BOE
Basis of Estimates

2009

State Specifications and Estimates Office
Estimating Systems Support Section
<table>
<thead>
<tr>
<th>2009</th>
<th>2009</th>
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</tr>
</thead>
<tbody>
<tr>
<td>FDOT BASIS OF ESTIMATES</td>
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</tr>
</tbody>
</table>
Introduction

BASIS OF ESTIMATES MANUAL

I.1 PURPOSE

The *Basis of Estimates Manual* sets forth the standard methods of documenting design quantities, as well as selection criteria, for construction pay items for Florida Department of Transportation (FDOT) projects.

I.2 AUTHORITY

Sections 334.044(2), 20.23(3)(a), 334.048(3), Florida Statutes (F.S.)

I.3 SCOPE

This procedure impacts anyone preparing construction plans or specifications for the Department.

I.4 GENERAL INFORMATION

*Chapter 334* of the *Florida Statutes*, as part of the *Florida Transportation Code*, establishes the responsibilities of the State, counties, and municipalities for the planning and development of the transportation systems serving the people of Florida, with the objective of assuring development of an integrated, balanced statewide system. The *Code’s* purpose is to protect the safety and general welfare of the people of the State and to preserve and improve all transportation facilities in Florida. Under *Sections 20.23(3)(a) and 334.048(3), F.S.*, the *Code* sets forth the powers and duties of the Department of Transportation including adopting rules, procedures and standards for the conduct of its business operations and the implementation of any provisions of law for which the Department is responsible.

I.5 DISTRIBUTION

This document is published online at [http://www.dot.state.fl.us/specificationsoffice/](http://www.dot.state.fl.us/specificationsoffice/). Contacts, updates and registration information are available at the Basis of Estimates link on the above internet web page.

I.6 REGISTRATION

All users are encouraged to register online with the FDOT Project Management Contact Database located at [http://www.dot.state.fl.us/projectmanagementoffice/contactdatabase.shtm](http://www.dot.state.fl.us/projectmanagementoffice/contactdatabase.shtm). Registered users will receive e-mail notification of major updates and bulletins.
I.7 REVISIONS and UPDATES

*Basis of Estimates* holders are encouraged to submit comments and suggestions for changes to this manual to the State Specifications and Estimates Office. When ideas or suggestions are received, they will be reviewed by appropriate Design and/or Construction staff in a timely manner, and will be coordinated with other offices affected by the proposed change. Issues warranting immediate change will be made with the approval of the State Estimates Engineer in the form of an *Estimates Bulletin*. *Estimates Bulletins* will be posted online at [http://www.dot.state.fl.us/specificationsoffice/](http://www.dot.state.fl.us/specificationsoffice/). The State Specifications and Estimates Office will also coordinate proposed revisions or additions with affected offices within the Central Office. All new chapters and substantive revisions that result in policy change will be coordinated in accordance with the Forms and Procedures Office in accordance with Procedure No. 025-020-002, *Standard Operating System*, and the Executive Committee for concurrence.

Basis of Estimates Coordinator,
FDOT State Specifications and Estimates Office
605 Suwannee St., MS 34
Tallahassee, FL 32399-0450
[http://www.dot.state.fl.us/specificationsoffice/](http://www.dot.state.fl.us/specificationsoffice/)

Updates are posted online at least twice a year. Issues resulting in an *Estimates Bulletin* will be updated as approved by the State Estimates Engineer. Additions, minor issues, or corrections not requiring a bulletin will be updated as needed.

I.8 TRAINING

No training required. Optional training on the *Basis of Estimates*, reports, and supporting computer systems is available through the Estimating Systems Support section of the State Specifications and Estimates Office.

I.9 FORMS

The Pay Item Request form is available online at [http://www2.dot.state.fl.us/proceduraldocuments/forms/forms.asp](http://www2.dot.state.fl.us/proceduraldocuments/forms/forms.asp)
The use of this form is optional; refer to *Chapter 6* for complete information.

Revision History

This is the revision history for the *Introduction*; revisions to *Chapters 1-10* are located at the end of each chapter. Revisions and history of individual pay items is available through the State Specifications and Estimates Office, care of the Basis of Estimates Coordinator.
6-30-2009: Removed draft watermark. Changed header date for publication.

11-14-2008: Updated internet links to current addresses.

11-5-08: Updated formatting in accordance with Forms and Procedures Office’s recommendations.

# Basis of Estimates

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<td>Forms: CADD and Comp Book</td>
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<td>Reports</td>
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<td>Chapter 10</td>
<td>Formatting Pay Items</td>
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<td>Pay Item Details</td>
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<tr>
<td></td>
<td>Where to Find It</td>
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<tr>
<td>Chapter 11</td>
<td>Items 000 through 199 (2000-2199)</td>
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<tr>
<td>Chapter 12</td>
<td>Items 200 through 299 (2200-2299)</td>
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<td>Chapter 21</td>
<td>Master Pay Item List, 2007</td>
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### Appendices (available online)

- Appendix 1: Past Updates/ Cover Letters
- Appendix 2: History- Obsolete Structures
- Appendix 3: Forms & Documentation
Chapter 1
Updates & Registration
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Chapter 1
Updates and Registration

1.1 Registration

All users of the Basis of Estimates (BOE) are encouraged to register with the Contact Database at [http://www.dot.state.fl.us/projectmanagementoffice/contactdatabase.htm](http://www.dot.state.fl.us/projectmanagementoffice/contactdatabase.htm). Registration is free. Additional information about the contact database is available at the web page,

1.2 Update notices

An e-mail message is sent to all registered users when major updates occur, normally twice a year. The e-mail message will remind users to go to the Estimates Office web pages for the BOE, as well as to read the Summary of Major Changes, also known as the “Cover Letter”.

Special Update notices, Estimates Bulletin announcements, or other e-mail messages may be sent to registered users. These e-mail messages will only be sent when it is determined that an issue has a “significant impact” on a large number of users, with approval of the State Estimates Engineer.

Minor changes will be posted online, as needed. Note the revision date for the applicable file or chapter. A summary of minor changes will be posted online, with the major updates.

1.3 Proposed Changes

Users are encouraged to submit comments and suggestions for changes to the BOE. All items will be reviewed by the BOE Coordinator, and processed as follows:

a) Pay item Issues: Refer to Chapter 6 for additional information.

b) Formatting Issues: Evaluated by the BOE Coordinator.

c) Other Content Issues: Evaluated by the BOE Coordinator and/or the responsible office.

Issues forwarded to the C-Team are processed as detailed in Chapter 6. Other issues requiring review will be discussed with the State Estimates Engineer, and processed as recommended.

1.4 Submitting Proposed Updates

To submit a comment or suggestion, send the appropriate information to the BOE Coordinator or State Estimates Engineer. Contact Information is listed in Chapter 5, and on the State Estimates Office’s web pages.

Please include the complete pay item number (if applicable), a detailed explanation of the proposal, and contact information (if you would like a response).
1.5 Critical Dates for BOE Updates

In order to process changes in a timely manner, please submit proposed changes as early as possible. What may appear as a minor change for one office may result in major changes for another office. With assistance from the Coordination team, all issues will be resolved prior to announcement in an Estimates Bulletin or Summary of Major Changes.

The following dates are normal processing deadlines. Issues impacting a significant number of projects and/or dollar value may require longer or shorter processing times, as recommended by FDOT managers.

<table>
<thead>
<tr>
<th>Deadline</th>
<th>Annual Edition</th>
<th>Mid-Year Update</th>
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<tbody>
<tr>
<td>Normal Implementation of issues*</td>
<td>July letting</td>
<td>January letting</td>
</tr>
<tr>
<td>Publication Date (approx 6-9 months prior to implementation)</td>
<td>October-January</td>
<td>April -June</td>
</tr>
<tr>
<td>Other affected specifications, manuals and/or handbooks**</td>
<td>varies</td>
<td>varies</td>
</tr>
</tbody>
</table>

*Issues with less than 6 months advance notice will normally be issued as a Bulletin, Mandatory, or other special announcement to registered users.

**Contact the responsible office for critical dates and update procedures. Specifications, manuals, and handbooks may take 6-18 months from start to implementation.

Chapter 1 Revision History

Chapter 2
Units of Measure:
Abbreviations & Conversion Factors
# Chapter 2
## Units of Measure

### 2.1 Abbreviations

Listed below are selected abbreviations used in the Basis of Estimates. For a more complete list of abbreviations, refer to Design Standards, Index No. 001.

<table>
<thead>
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<th>Abbreviation</th>
<th>Description</th>
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<tr>
<td>AC</td>
<td>Acre</td>
</tr>
<tr>
<td>AS</td>
<td>Assembly*</td>
</tr>
<tr>
<td>BU</td>
<td>Bushel</td>
</tr>
<tr>
<td>CF</td>
<td>Cubic Foot</td>
</tr>
<tr>
<td>CO</td>
<td>Cleanout*</td>
</tr>
<tr>
<td>CY</td>
<td>Cubic Yard</td>
</tr>
<tr>
<td>DA</td>
<td>Day</td>
</tr>
<tr>
<td>DD</td>
<td>Dollars per Day</td>
</tr>
<tr>
<td>EA</td>
<td>Each</td>
</tr>
<tr>
<td>ED</td>
<td>Each Day</td>
</tr>
<tr>
<td>GA</td>
<td>Gallon</td>
</tr>
<tr>
<td>GK</td>
<td>Gross Kilometer</td>
</tr>
<tr>
<td>GM</td>
<td>Gross Mile</td>
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<tr>
<td>HA</td>
<td>Hectare</td>
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<tr>
<td>HR</td>
<td>Hour</td>
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<tr>
<td>KG</td>
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<tr>
<td>LS</td>
<td>Lump Sum</td>
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<tr>
<td>LU</td>
<td>Luminaire</td>
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<tr>
<td>M1</td>
<td>Meter</td>
</tr>
<tr>
<td>M2</td>
<td>Square Meter</td>
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<tr>
<td>M3</td>
<td>Cubic Meter</td>
</tr>
<tr>
<td>MB</td>
<td>Board Measure/ Thousand Feet</td>
</tr>
<tr>
<td>MG</td>
<td>Thousand Gallons</td>
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<tr>
<td>MH</td>
<td>Man-hour**</td>
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<tr>
<td>MI</td>
<td>Mile</td>
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<tr>
<td>MO</td>
<td>Month</td>
</tr>
<tr>
<td>MT</td>
<td>Metric Ton</td>
</tr>
<tr>
<td>NK</td>
<td>Net Kilometer</td>
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### Units of Measure

```
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<td>NM</td>
<td>Net Mile</td>
</tr>
<tr>
<td>PA</td>
<td>Per Analysis*</td>
</tr>
<tr>
<td>PB</td>
<td>Per Building*</td>
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<tr>
<td>PI</td>
<td>Per Intersection*</td>
</tr>
<tr>
<td>PL</td>
<td>Plant*</td>
</tr>
<tr>
<td>PM</td>
<td>Per Mile*</td>
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<tr>
<td>PS</td>
<td>Per Set*</td>
</tr>
<tr>
<td>PW</td>
<td>Per Well*</td>
</tr>
<tr>
<td>SF</td>
<td>Square Foot</td>
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<tr>
<td>SY</td>
<td>Square Yard</td>
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<tr>
<td>TH</td>
<td>Therms</td>
</tr>
<tr>
<td>TN</td>
<td>Ton</td>
</tr>
<tr>
<td>YD</td>
<td>Yard</td>
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</table>
```

*Units which may be replaced with unit of Each (EA), upon pay item review*

**Units may be replaced with Hour (HR), upon review.

### 2.2 CONVERSION FACTORS

#### Linear Measure

- $25.4 \text{ mm/in}$
- $0.03937 \text{ in/mm}$
- $0.3048 \text{ m/ft}$
- $3.2808 \text{ ft/m}$
- $0.9144 \text{ m/yd}$
- $1.0936 \text{ yd/m}$
- $1.609 \text{ km/mi}$
- $0.621 \text{ mi/km}$

#### Area Measure

- $9 \text{ ft}^2/\text{yd}^2$
- $0.836 \text{ m}^2/\text{yd}^2$
- $1.2 \text{ yd}^2/\text{m}^2$
- $0.40 \text{ ha/ac}$
- $4047 \text{ m}^2/\text{ac}$
- $2.477 \text{ ac/ha}$
- $43,560 \text{ ft}^2/\text{ac}$
- $4840 \text{ yd}^2/\text{ac}$
- $640 \text{ ac/mi}^2$
- $0.386 \text{ mi}^2/\text{km}^2$
- $2.590 \text{ km}^2/\text{mi}^2$

#### Volume, Liquid Measure

- $1728 \text{ in}^3/\text{ft}^3$
- $0.028 \text{ m}^3/\text{ft}^3$
- $0.765 \text{ m}^3/\text{yd}^3$
- $27 \text{ ft}^3/\text{yd}^3$
0.2642 gal/l
3.785 l/gal

**Force, Weight Measure**
2.205 lb/kg
1.10 TN/MT
0.907 MT/TN (short ton)
2000 lb/ton (short ton)
1000 kg/MT

Additional items to be added upon request.

**Chapter 2 Revision History**

10-1-2008: Updated header dates for 2009 edition
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Chapter 3
Blank—Future Use
Chapter 3

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Chapter 3 Revision History

Chapter 4

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Chapter 4 Revision History

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Chapter 5  
Contact Lists

The Basis of Estimates is the result of coordination between District Estimates Offices and Central Office Design, Construction, and Maintenance. Issues are identified in the districts, options are proposed through the Responsible Offices, and finally, recommendations are presented for management approval and statewide implementation.

In general, **Designers should coordinate with the FDOT Project Manager.** Pay item issues should be forwarded through the District Estimates and Specifications Coordinator(s) to the Central Office BOE Coordinator. Issues that require major changes (plans, standards, specifications, pay items, or other manuals) will be coordinated between the Responsible Offices, and any recommendations will be forwarded from the Coordination Team. Refer to the tables below for District and Responsible Office contacts.

### 5.1 CENTRAL OFFICE PAY ITEM COORDINATORS

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<th>CENTRAL OFFICE</th>
<th>COORDINATOR</th>
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<td>Estimates, Engineering Support Services</td>
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<tr>
<td>Basis of Estimates</td>
<td>Melissa Hollis</td>
<td>850-414-4182</td>
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<tr>
<td>Long Range Estimates</td>
<td>Dale Stanley</td>
<td>850-414-4197</td>
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<tr>
<td>TRNS*PORT PES/CES</td>
<td>Cheri Sylvester</td>
<td>850-414-4179</td>
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<tr>
<td>Final Estimates</td>
<td>David Chason</td>
<td>850-414-4171</td>
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<tr>
<td>Construction COMP Book forms</td>
<td>Sherry Valdez</td>
<td>850-414-4249</td>
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<tr>
<td>Specifications</td>
<td>Rudy Powell</td>
<td>850-414-4280</td>
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<tr>
<td></td>
<td>Frances Thomas</td>
<td>850-414-4101</td>
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<tr>
<td>Construction</td>
<td>Stefanie Maxwell</td>
<td>850-414-4314</td>
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<tr>
<td>Maintenance</td>
<td>Deanna Carroll</td>
<td>850-410-5757</td>
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<tr>
<td>CADD</td>
<td>Bill Gerry</td>
<td>850-245-1600</td>
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<tr>
<td></td>
<td>Michelle Guynn</td>
<td>850-245-1621</td>
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### 5.2 DISTRICT COORDINATORS

<table>
<thead>
<tr>
<th>DISTRICT</th>
<th>COORDINATOR (Titles vary by District)</th>
<th>LOCAL</th>
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<tr>
<td>First</td>
<td><strong>Specifications:</strong> John Previte</td>
<td>863-519-2679</td>
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<td><strong>Estimates:</strong> Gena Batman</td>
<td>863-519-2558</td>
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<tr>
<td>Second</td>
<td><strong>Specifications:</strong> Teresa Thrasher</td>
<td>386-961-7470</td>
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<td></td>
<td><strong>Estimates:</strong> Richard Rountree</td>
<td>386-758-3759</td>
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<td>386-961-7708</td>
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<tr>
<td>Third</td>
<td><strong>Specifications:</strong> Robert Ellis</td>
<td>850-415-9459</td>
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<td><strong>Estimates:</strong> Phillip Smith</td>
<td>850-415-9361</td>
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<td>850-415-9567</td>
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<td>Fourth</td>
<td><strong>Specifications:</strong> Ben Burton</td>
<td>954-777-4135</td>
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<td><strong>Estimates:</strong> Gene Lipscomb</td>
<td>954-777-4691</td>
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<td>Fifth</td>
<td><strong>PS&amp;E:</strong></td>
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<td></td>
<td><strong>Specifications:</strong> Ed Kestory</td>
<td>386-943-5185</td>
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<td><strong>Specifications:</strong> Anne Brewer</td>
<td>386-943-5177</td>
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<td><strong>Estimates:</strong> Yougens Pierre</td>
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<td>Sixth</td>
<td><strong>Specifications:</strong> Hong Benitez</td>
<td>305-470-5268</td>
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<td><strong>Estimates:</strong> Rubin Rivero</td>
<td>305-470-5259</td>
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<td>Seventh</td>
<td><strong>PS&amp;E:</strong></td>
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<td><strong>Specifications:</strong> Jason Spilak</td>
<td>813-975-6799</td>
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<td><strong>Specifications:</strong> Brian Shroyer</td>
<td>813-975-6279</td>
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<td><strong>Estimates:</strong> Beth Carlson</td>
<td>813-975-6139</td>
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<td>Turnpike</td>
<td><strong>PS&amp;E:</strong></td>
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<td></td>
<td><strong>Specifications:</strong> Don Brackins</td>
<td>407-532-3999 x3437</td>
</tr>
<tr>
<td></td>
<td><strong>Specifications:</strong> Bill Newlin</td>
<td>407-532-3009</td>
</tr>
<tr>
<td></td>
<td><strong>Estimates:</strong> Steven Sheffield</td>
<td>407-264-3444</td>
</tr>
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**NOTE:** Some districts operate as a "PS&E" group (Plans, Specifications, & Estimates), while others have separate offices. Additional names and/or descriptions may be added upon request of the District Office(s).
### 5.3 CONTACT PERSONS- BY PAY ITEM NUMBER RANGE

<table>
<thead>
<tr>
<th>ITEM NUMBERS</th>
<th>SUBJECT/GROUP</th>
<th>CENTRAL OFFICE COORDINATOR</th>
<th>PHONE</th>
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</thead>
<tbody>
<tr>
<td>100-102</td>
<td>MOT</td>
<td>Cheryl Adams</td>
<td>850-414-4327</td>
</tr>
<tr>
<td>103</td>
<td>Temporary Structures</td>
<td>Robert Robertson</td>
<td>850-414-4267</td>
</tr>
<tr>
<td>104</td>
<td>Erosion Control</td>
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<td>Jeff Caster</td>
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<td>Jeff Caster</td>
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<td>Stefanie Maxwell</td>
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<td>Emmanuel Uwaibi</td>
<td>850-414-4372</td>
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<td>300-399, except 346-347</td>
<td>Surface Courses, Concrete Pavement</td>
<td>Emmanuel Uwaibi</td>
<td>850-414-4372</td>
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<td>Robert Robertson</td>
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<td>Robert Robertson</td>
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<td>Incidental Construction- Roadway Items</td>
<td>Andy Keel</td>
<td>850-414-4323</td>
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<td>551-569</td>
<td>Incidental Construction- Structural Paint</td>
<td>Robert Robertson</td>
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<td>Chester Henson</td>
<td>850-414-4117</td>
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<td>Traffic Control</td>
<td>Chester Henson</td>
<td>850-414-4117</td>
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<td>Chester Henson</td>
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<td>Incidental Construction- Traffic Monitoring (TMS)</td>
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<td>Incidental Construction- Other</td>
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<td>Gene Glotzbach</td>
<td>850-410-5616</td>
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<tr>
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<td>Mass Transit (Railroad)</td>
<td>Gordon Wheeler</td>
<td>850-414-4366</td>
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### Chapter 5 Revision History

10-1-2008: Updated CO Specs contact information.
5-28-08: Updated contact information for Districts 3.
Chapter 6
Requesting Pay Items
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Chapter 6
Requesting Pay Items

6.1 General

Occasionally a project requires the use of a pay item that is not currently active in the Master Pay Item Listing, or not defined in the Pay Item Structure. When this occurs, a request must be submitted. All pay item requests must go through the District Estimates Engineer. See the instructions below for Opening Pay Items (Items which are listed on the pay item structure) or Requesting New Items (Items which require a new/expanded structure).

Note: According to the Plans Preparation Manual, Volume II, Chapter 2, items should be loaded for a project at Phase II. Quantities should be completed in Phase III. Due to processing times noted below, items should be requested as soon as a need is identified. DO NOT WAIT until Phase III or IV submittals are due.

Note: The Specifications Office requires that Technical Special Provisions (TSPs) be submitted along with new pay item requests. To avoid production delays, TSPs should be submitted for District Review as soon as a need is identified. Refer to the Specifications Office’s web page at www.dot.state.fl.us/specificationsoffice for additional instructions.

6.2 Opening Pay Items

For items included in the Pay Item Structure, but not currently open on the Master Pay Item list, submit the following information via e-mail to the District Estimates Engineer:

Financial Project ID,
Letting date,
FDOT project manager’s name,
Pay item number and description,
Cost data: Supplier (name, address, phone number) and unit price. (For commonly used items, a related pay item number is acceptable),
Contact name and phone number.

For Tech Spec items: Coordinate with the District Specifications Office before requesting pay items.
TO: District Estimates Engineer  
Copy: Project Manager  
From: Designer  
Subject: Pay Item Request, Project 123456-1-52-01  

Please open the following Pay Item(s) for Project 123456-1-52-01, scheduled for 01/01/2010 letting:  

0123-456 Item Description (size)(shape defined in structure), EA  
  Approval of the Tech Spec is included below. (E-mail forwarded from District Specifications’ approval.)  

0123-457 Item Description (size in structure), LS  
  Covered by current specifications.  

Requested By: Joe Designer, ABC Company, phone 850-555-1212.  

The District Estimates Engineer will review the request, verify specification status as needed, and forward the information to the TRNS*PORT Coordinator in the State Estimates Office.  

While most requests are completed within 2 hours, please allow up to 2 working days for items to be opened. Upon completion of the request, a “reply to all” e-mail will be sent so that the item(s) may be loaded on the identified project(s).  

6.3 Requesting New Items  
To expand or request a new pay item structure, submit the following information via e-mail to the District Estimates Engineer (form 600-000-02 may be used, as needed):  
  Item Description and suggested unit of measure, accuracy  
  BOE Detail text,  
  Proposed pay item structure (if applicable for items with multiple sizes, functions, etc.)  
  Specifications (refer to current specification section, or attach proposed Developmental and/or Technical Special Provision)  
  PPM reference, standards, and/or plan notes that may apply,  
  Supporting information (drawings, Manufacturer’s literature, etc.), if available  
  Cost data: Supplier (name, address, phone number) and unit price. (For commonly used items, a related pay item number is acceptable)  
  Contact name, e-mail address, and phone number of Designer and/or Project Manager  
  Financial Project ID & Letting Date
The District Estimates Engineer forwards the request to the State Estimates Office. It is reviewed by the responsible office(s), Specifications Office, and then returns to the Estimates Office. Each office has the opportunity to indicate if the proposed change affects current documents (specifications, standards, and/or other manuals).

Requests for items with no known impact on specifications, standards, or other manuals (normally expanded sizes, shapes, etc.) will be completed within 2 working days*. Upon completion of the request, the originator will be contacted, so that the item may be loaded on the identified project.

*NOTE: While minor changes to the pay item structure can be completed within 2 hours, other changes may require additional time. When a pay item request MAY involve a new/changed specification, existing pay item, standard, and/or manual, the request will be forwarded to the C-Team for evaluation. Updates to these items may involve extended industry review period(s) and coordination for implementation. Requests for new items should be submitted as early as possible in the design phase. Refer to the C-Team information below for process details.

6.4 Pay Item Request Form Instructions

The Pay item request form 600-000-02 is available at http://www2.dot.state.fl.us/proceduraldocuments/forms/forms.asp

As noted above, the form is optional; the required information may be submitted via e-mail.

To complete the form, the Originator completes the fields marked with an asterisks (*). The Originator may be a Consultant Designer (for project specific needs), an FDOT Designer (for new products, processes, etc.) or any FDOT Employee (for implementing policy or procedures).

Fields without an asterisks (*), or unknown information, may be left blank. They will be completed by the BOE Coordinator and/or Responsible Office, as necessary.

Item Structure (Pay item number):

This number will be assigned by the Basis of Estimates Coordinator in the Central Office. Specification Section numbers will be selected with recommendations from the State Specifications Office. Refer also to Developmental Pay Items below.

Guidelines for new pay item structures 0123-456-789:

First three digits (123) match the Specification Section. See also Developmental Pay Items for special cases.

Digits 456-789 are right justified within the group.

Variables ABC-DEF may be used to define operation, size, shape, color, type, etc. when needed to separate items with significantly different cost. Variables that can be defined in the plans or specifications DO NOT need separate pay items, if the cost is
similar. Contact the Basis of Estimates Coordinator for assistance. When Install, Relocate, or other non-furnish operations are defined, the remaining variables may be blank or zero. These should be clearly indicated with the structure.

Refer to Chapter 10 for details on the Pay Item Structure/Number. Specification Section numbers will be selected with recommendations from the State Specifications Office. Refer also to Developmental Pay Items below.

*Description:
Describe the new pay item so that this "name" best relates to future users what this item is used for. The same name will be used for English & Metric lists; therefore, dimensions or unit specific names should be used at the structure level.

*Unit of measure:
A maximum of two spaces used to abbreviate the method of measure for this item. (see Section 3 of the Basis of Estimates for acceptable units.) Include both English and Metric units.

*Requested Action:
Check the type of action requested: New Item or Permanent Block. When this item is to be processed with other items, note the related item(s), i.e. Item No. ###-abc-def, or "MOT items for updated standards". An expanded pay item structure is considered a "new item".

*Structure:
The pay item structure ###-abc-def, should be used to define parameters which affect the price (i.e. size, shape, material), where items a through f are detailed as needed. Additional parameters which do not affect the price may be detailed in the plans; DO NOT create additional pay item structures for these parameters. Limited structures can be used to encourage price competition between products that perform similar functions and/or provide similar end results. Use additional sheet(s) if necessary.

Refer to Chapter 10 for details on the pay item structure/number.

*Detail Information:
Describe the item, application, recommended use, materials, etc. This information will be used to help identify the appropriate pay item, and cost estimate distribution. This information is used in the Basis of Estimates detail to assist designers in the selection and quantity calculations of an item.

Text may include "Use When…", "Do not use when…", "Estimate xx items per…", and/or "Item(s)... are recommended/required when this item is used."

The pay item detail information is not a substitute for specifications. In case of doubt, always refer to the applicable specification(s) for a complete description of the work to be completed, materials, measurement, and payment.

*Method of Measure, Accuracy:
Unit of Measure & Accuracy used for payment. Consider payment accuracy of similar items, as shown in the Basis of Estimates. Note: Calculation/Documentation may require higher level of accuracy in the plans and/or computation book.

*Plan Quantity:
Yes, if payment of item to be based on Plan Quantity, subject to specifications. No, if payment to be based on Field Measurement.

Ensure that this selection matches compensation information in the applicable specifications.

Documentation-
*Specification- Section, Article; Tech Specs?:
  *For items with existing or related specifications* (requests for items with new size, shape, or function), refer to the applicable Section number.
  *For project specific items* without existing specifications (requests for items with limited use or project specific conditions), contact the District Specifications Office; a copy of the Technical Special Provision will be required with the pay item request form.
  *For new, general use items* without existing specifications (requests for items based on changes to standards, specifications, and or policy), contact the State Specifications Office. The implementation of these items will be coordinated with all affected offices.

Specifications Submitted, Date:
List the name of the person originating the specification, and the date it was sent to the Specifications Office.

*Plans Prep Manual:
Refer to Volume and Chapter for applicable information. If a revision is necessary, contact the State Roadway Design Office to propose revision(s).

*Standards Index No(s): Applicable* Roadway and Traffic Design Standards, or Structures Design Standards, with index number(s). If a revision is necessary, contact the applicable office.

*CADD/COMP Form Number(s):
Applicable form(s) for documentation of quantities. Refer to Section 1 of the Basis of Estimates for current forms.

*Plan Notes:
If plan notes will be required, provide sample text of note. (Plan notes should not replace or duplicate specification text.) All plan notes should be coordinated with the PPM text.

Other:
If use of this item is included in other documentation (Drainage, Pavement Design, Traffic Signals, or other Manual/Handbook), note applicable volume, chapter, or edition. If revisions are necessary, coordinate changes with applicable office.
Responsible Office Approval, Date:
This is the Office and Contact Person listed in Chapter 5, generally within the Office of Design in Tallahassee. The Contact Person in the Responsible Office should refer to Chapter 10 for assistance in completing the blank fields on the form.

Cost Data-
Related Pay Item(s), Unit Price, Additional Cost, Availability:
For items similar in cost, provide related item numbers. (This information is used to assist in Preliminary Cost Estimates.) If no similar item exist, provide price and availability information. Unit price includes cost of material; additional cost to include installation, delivery, incidental materials, etc. Availability to include suppliers or manufacturers.

Estimator’s Approval, Date:
State Estimates Office, Preliminary Estimates Section will review of the proposed price and/or related items.

Originator-
Name, Date, Office, Phone, District:
The originator may be a Consultant or FDOT employee, currently working on the project for which the item is requested. This person should be able to answer any additional questions regarding the use/application of this item. Complete information as requested.

District Estimates Office Approval:
For Items originating in the districts, the District Estimates Engineer should sign, indicating that the form contents have been completed and reviewed.

Central Office Approvals-
Design Coordinator, Specifications Coordinator, BOE Coordinator, TRNS*PORT Coordinator:
Each person responsible for approval should verify that requested action is necessary, meets existing/proposed standards, guidelines, handbooks, etc, and not in conflict with existing item(s).

Implementation-
Effective Letting Date, C-Team Issue #, Summary Details:
The implementation information will be completed in the Central Office, following all approvals. Actions which require coordination between offices will be addressed by the Coordination Team, with approved implementation plans detailed in the Basis of Estimates Summary of Changes. Minor actions, not requiring an implementation plan, will be implemented immediately.

Master File- Item Number, Financial Project Number, and Project Letting Date:
If a project number is known, the item(s) will be opened upon approval and implementation. If the project number is unknown, the structure will be established, but the
item will not be opened until requested.

6.5 Inactive Items

In an effort to remove unused pay items, those items not used within a 2 year period will be labeled as “inactive” and considered for temporary and/or permanent blocking.

Opening inactive items will require that the Designer follow the instructions for opening an item (i.e. submit an e-mail with the requested information, as described above. A copy of the Tech Spec may be required). The Central Office Estimates staff will request approval from the responsible office, prior to opening. Designers should allow up to an additional 2 working days for this approval.

If an inactive item remains unused for 3 years, the Estimates Office will recommend to the responsible office that the pay item structure be blocked. Once blocked, a pay item request form must be completed in accordance with Requesting new items, as described above.

6.6 Pay Item Reviews

When a major specification or standards change is made, the responsible office is requested to review the pay item structure to ensure that the affected items meet the needs of Design, Construction, Maintenance, and other industries. Historical use and item averages are available, but should not be the only consideration.

As recommended with new items, the pay item structure ###-abc-def, should be used to define parameters as needed. Some factors to consider when reviewing the pay item item structure:

a. What factors are most important to the Designer, Estimator, Supplier, Manufacturer, and/or Contractor? Can they be detailed in the plans? Are they included in the specification? Does it affect the price?

   Note: Not all factors should be weighted equally. Sometimes the installation (labor) is more significant than the materials.

b. Are there standards/specifications for the item?

   There may be 2 standard products and 8 “special” items. If the 2 standard items account for a significant percentage of applications, could the “special” items be combined under one “special” item?

Additional parameters which do not affect the price may be detailed in the plans; DO NOT create additional pay item structures for these parameters. Limited structures can be used to encourage price competition between products that perform similar functions and/or provide similar end results.

6.6 Coordination Team

A team representing many Design & Construction Offices has been established to coordinate the review and implementation of various issues. By working together, the team
is able to ensure that pay items, specifications, and standards, as well as supporting handbooks and manuals, are available in a timely manner- with a coordinated implementation plan. Design Representatives include the persons from Roadway, Structures, Specifications, Standards, and Estimates. Construction and Maintenance are also represented. When necessary, representatives from other affected offices are requested to attend.

Issues may be submitted by any office or representative, but are normally the result of changes to pay items, specifications, and/or standards. Each office’s representative is encouraged to keep the team informed of issues that may impact others. Representatives’ names and contact information are listed in Chapter 5. When proposing major changes to the pay item structure, specifications or standards, please coordinate with the contact person(s) listed for the affected items.

Issues brought to the attention of the C-Team will be evaluated and processed on a “case-by-case” basis. Issues with minimal impact on others are noted, with little or no further C-Team activity. Issues with extensive impact may be assigned to a committee for further investigation. The result of C-Team activity should be a recommended implementation plan, complete with a brief history and resulting changes. Implementation will be scheduled to coincide with Specification, BOE, Standard, and Manual updates, when possible.

The State Estimates Office compiles information resulting from C-Team recommendations for the Summary of Major Changes included with each edition/update to the Basis of Estimates. Managers of the affected offices approve issues included in the summary. Overall approvals, from the Directors of the Office of Design and Highway Operations, are also included.

### 6.7 Developmental Pay Items / Trial Pay Items

When an item is recommended for implementation while details are under review (specifications, standards, policy, etc.) a developmental pay item may be assigned. Developmental items are created for limited use, for a limited period of time, while the item is under review. A monitor will be assigned for each Developmental Item.

Developmental pay item numbers will be assigned as follows: (year)-(section)-(sequential use). The monitor’s name will be included with the structure. Any problems or concerns with these items, from either Design or Construction, should be directed to the monitor, in writing.

Contact the monitor prior to using a Developmental Pay Item. If the monitor approves the item for use, the monitor will e-mail the central offices of Design, Specifications and Estimates approving the use of that trial pay item number with specifications dated mm/dd/yy for a specific project.

Upon completion of the specification, standard, and/or policy change(s), the monitor will
recommend that the item be opened for statewide implementation, the Coordination Team will recommend an implementation date, and a new pay item number will be assigned.

6.8 Related Documents

**COMPUTATION BOOKS**
The Computation Book(s) are to be prepared in accordance with the Department’s directive/procedure No. 700-050-001, *Computation Methods for Design, Construction, and Final Estimates*, and accompanying handbook. Included in the procedure are instructions for documentation of Lump Sum items, Plan Quantity items, as well as final measure items. This information is available online at [www.dot.state.fl.us/construction](http://www.dot.state.fl.us/construction).

**ALTERNATIVE CONTRACTING USER’S GUIDE**
It is the intention of the Department to use various techniques on a wide range of project types in order to determine which techniques work best with each project type. The goal of this program is to reduce the cost and time overruns, and thereby reducing the impact of construction on motorists, businesses and homeowners within the transportation corridor.

Most of the alternative contracting practices involve financial incentives to expedite work. Methods include A+B Bidding, Lane Rental, Design-Build, Bonus, Liquidated Savings, and Lump Sum Projects. *Note: For more detailed instructions, refer to the Department’s Alternative Contracting User’s Guide on the Construction Office’s web page at [www.dot.state.fl.us/construction](http://www.dot.state.fl.us/construction).

**PLANS PREPARATION MANUAL**
The Roadway Design office maintains the Plans Preparation Manual (PPM). The manual sets forth geometric and other design criteria, as well as procedure for FDOT projects. This document is now available online at [www.dot.state.fl.us/rddesign](http://www.dot.state.fl.us/rddesign)

**Chapter 6 Revision History**

10-1-2008: Updated text to make the pay item request form optional. Complete information may be submitted by e-mail.
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Chapter 7
Design Aids
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Chapter 7
Plan Notes

7.1 General Information

Detailed plan notes and/or technical special provisions must be provided by the designer for all items not covered by existing specifications. *Plan notes are not acceptable as a substitute for Technical Special Provisions.* Plan notes are intended to work *with* the specifications, and are not intended to supersede the specifications. Plan notes *must not*:
- Change the specifications
- Conflict with the specifications
- Duplicate the specifications

When existing specifications are not applicable, coordinate the specification revisions with the District Specifications Office. Every effort should be made to avoid conflicts, as plan notes are overridden by some specifications and take precedence over others. In either case, plan notes must *never* conflict with specifications. Details necessary for complete information include:
- Description of item
- Materials
- Construction and installation
- Method of measurement
- Basis of payment.

*NOTE: Refer to the Plans Preparation Manual (Topic 625-00-006) for additional guidelines on using plan notes. It is located online at [http://www.dot.state.fl.us/rddesign/default.htm](http://www.dot.state.fl.us/rddesign/default.htm) Contact the Roadway Design Office with any questions, comments, or corrections regarding these notes.*

Chapter 7 Revision History

5-28-08: Deleted notes; refer to PPM for current information for: Key Sheet Notes, Typical Section Notes, Summary of Quantities Sheet Notes, Plan and Profile Sheet Notes, Pay Item Footnotes, Drainage Map Notes, and Utility Adjustment Sheet Notes.
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Chapter 8

Forms
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Chapter 8
FORMS

CADD Forms/Sheets/Cells are maintained by the State Engineering/CADD Office at http://www.dot.state.fl.us/ecso/default.htm

COMP Forms are maintained by the State Construction Office at http://www.dot.state.fl.us/construction/formsonl/Forms_on.htm

For information regarding these forms, please contact these offices directly.

8-1 Introduction


The forms referenced in this section were developed by the Department of Transportation to serve the needs of Design, Construction and Estimates personnel. In Design, they are used to record calculations and tabulations for plan quantity. Construction personnel must verify the original quantity or modify it to reflect what was constructed, and enter a tentative final pay quantity. Estimates personnel must check both the original or plan quantity, versus the final quantity, and substantiate what quantity is to be paid to the contractor in agreement with all specifications and Department policies.

It is MANDATORY that each pay item be documented. When two or more forms are available, the Designer should select the best form (CADD or COMP) to document the pay item quantity, based on project conditions. For example, a simple area of turf may be documented in a CADD summary box in the plans. A complex area of turf should be shown in the plans with detailed quantity calculations documented in the comp book. DO NOT use both forms, as this duplication of effort causes additional work for designers, reviewers, estimators, and others.

There are three groups of forms applicable for estimate purposes: Computation Book Forms, Plans Forms, and Miscellaneous Forms. Computation Book forms are maintained by the State Construction Office, Final Estimates Section. Plans forms are maintained by the Engineering CADD Systems Office, with input from affected Design Offices. The State Estimates Office, Engineering Support Section, maintains miscellaneous Forms. Web links to these forms are included with each group.

DISCLAIMER: The information contained within this Section is for information/reference purposes only. The intent is to provide a brief summary of the forms referenced by specific pay items. Current forms are available from the responsible office, as noted above. Any questions, comments, or other correspondence related to forms should be directed to the responsible office.

8.2 Computation Book Forms

The forms assembled in the Computation Book provide a simple and logical basis of documentation for the Summary of Pay Items Sheet in the contract plans. The calculations required for different forms, range from tabulations of “each items” or “lump sum items” to complex area or volume calculations. The designer should use the form recommended for each item calculated or tabulated, if practical.
<table>
<thead>
<tr>
<th>Form Number</th>
<th>Form Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>700-050-01</td>
<td>Area Computations</td>
</tr>
<tr>
<td>700-050-02</td>
<td>Curb and/or Gutter Computation</td>
</tr>
<tr>
<td>700-050-03</td>
<td>Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computations</td>
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<tr>
<td>700-050-04</td>
<td>Volume Measure Items</td>
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<tr>
<td>700-050-05</td>
<td>Lump Sum Quantities</td>
</tr>
<tr>
<td>700-050-06</td>
<td>Weight Measure or Liquid Volume Computations</td>
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<tr>
<td>700-050-07</td>
<td>Concrete &amp; Reinforcing Steel Computations</td>
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<tr>
<td>700-050-08</td>
<td>Piling Tabulation</td>
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<tr>
<td>700-050-09</td>
<td>Linear Measurement Computation with Components</td>
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<tr>
<td>700-050-10</td>
<td>Computation Book Pay Item Summary Sheet</td>
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<tr>
<td>700-050-11</td>
<td>Computation Book Pay Item Summary and Certification Sheet</td>
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<tr>
<td>700-050-50</td>
<td>Off Duty Police Officer</td>
</tr>
<tr>
<td>700-050-51</td>
<td>Daily Log Sheet, Maintenance of Traffic</td>
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<tr>
<td>700-050-52</td>
<td>Daily Log Sheet (Striping)</td>
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<tr>
<td>700-050-54</td>
<td>Daily Report of Truck-Measured Material</td>
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<td>700-050-55</td>
<td>Daily Log Sheet for Tracking Grassing Items</td>
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<td>700-050-56</td>
<td>Daily Log Sheet for Miscellaneous Items</td>
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<tr>
<td>700-050-62</td>
<td>Contractor's Certified Invoice, Maintenance of Traffic Sheet</td>
</tr>
</tbody>
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For questions or comments regarding these forms, please contact the State Construction Office, Final Estimates Section. Contact information is located in the introduction section of this handbook.

Forms are available in .pdf format from the Office of Forms and Procedures at http://www.dot.state.fl.us/proceduraldocuments/ Search by Number, Office (Construction) or Title. To retrieve forms from the FDOT CADD software, use the bar menu. Contact your CADD Manager for details and software updates.

8.3 Plans Forms (CADD-Generated)

Plans Forms are CADD-generated. They provide the designer with a simple and logical format for summarizing quantities by the type of item. These forms contain spaces for recording both original design quantities and final "as built" quantities.

<table>
<thead>
<tr>
<th>Form Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refer to the CADD office web page for form/sheet names</td>
</tr>
</tbody>
</table>

Pole Data Sheet (Sheets 1 and 2)  
Tabulation of Quantities *  
Summary of Pay Items  
Summary of Drainage Structures  
Summary of Guardrail  
Summary of Ditch Pavement and Sodding  
Summary of Fencing  
Summary of Fencing Type B  
Summary of Fencing Type A  
Summary of Earthwork
Summary of Sodding
Summary of Side Drain and Mitered End Sections (Without Offset and Flow Line)

Summary of Sheeting
Summary of Turnouts
Summary of Underdrain
Summary of Gravity Wall and Aluminum Handrail
Summary of Flood Data
Cross Drain Optional Materials Tabulation (With Flow Line) (Sheets 1 & 2)
Optional Materials Tabulation (without Flow Line Changes) (Sheets 1 & 2)
Summary of Edgedrain
Summary of Sidedrain and Mitered End Sections (With Offset and Flow Line)

* The Tabulation of Quantities format shall be used for the following:
  1. Signalization Plans
  2. Signing and Pavement Marking Plans
  3. Lighting Plans
  4. Landscaping Plans
  5. Utility Joint Project Agreement Plans
  6. Other items, as indicated in the Basis of Estimates Handbook.

CONTACT INFORMATION
For questions or comments regarding these forms, please contact the Engineering CADD Systems Office. To retrieve CADD forms, visit the Engineering/CADD Systems Office web site at:
http://www.dot.state.fl.us/ecso/default.htm

8.4 Quantity Manager & Computation Book (A Note from the CADD and Construction Offices)

When the Designer utilizes the Department's Quantity Manager Tool within MicroStation/GEOPAK, the data that is depicted on the Computation Sheets may not utilize the whole form. The data shown on the Computation Sheets may only fill a portion of the actual form, and not display the whole form with blank lines. This will be an acceptable format, as the data depicted on the Computation Sheets should be complete. The first page will continue to provide a signature block for plan quantity items, as well as the area of notes for over/under runs, and the extra notes below that. The remainder of the sheets will provide quantities for the individual sheets. By utilizing the Quantity Manager tool in GEOPAK, the Designer will eliminate potential errors in data transfer and transposition of numbers by being automated.
8.5 Estimates Forms

PAY ITEM REQUEST
600-000-02

This form is used by designers and consultants when a project requires the use of a pay item that is not defined in the pay item structure. Refer to Chapter 6 for more details. Note: This form is optional; required information may be sent via e-mail, per Chapter 6.
Chapter 8 Revision History

10-6-2008: Updated pay item request form information, per Chapter 6. Use of the form is optional.
5-14-08: Inserted 8.4, note from Construction and CADD Offices. Requested by Sherry Valdes, State Construction Office & Kenny Rudd, District 3 CADD Office.
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Chapter 9
TRNS*PORT Designer Web Pages (Webgate)

State Specifications and Estimates Office
Estimating Systems Support Section
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Chapter 9
Webgate: TRNS*PORT Designer Interface & Reports

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   Intro to TRNS*PORT Suite
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   Project Summary of Pay Items
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   Pay Item Average Unit Cost
   Item Average Unit Cost
   Custom Reports
9.1 General

9.1.1 Intro to TRNS*PORT Suite
TRNS*PORT is a suite of programs owned by AASHTO (American Association of State Highway Transportation Officials). Many states around the country use this suite of programs for their transportation contracts. The TRNS*PORT programs used by FDOT include:

- PES: Proposal Estimating System
- CES: Cost Estimating System
- LAS: Letting and Award System
- SiteManager

9.1.2 Levels: Proposal, Project, Category, and Pay Item
TRNS*PORT data is organized into several levels. Starting at the lowest level, pay items are used to pay for a given item of work, as defined in the plans and/or specifications. Pay Items may include materials, equipment, and/or labor to complete the defined work. Multiple pay items may be included in a category of work. Categories include Structures, Roadway, Signing, Lighting, etc. For each category of work, a component set of plans is usually provided. A project may include one or more categories of work, within a defined geographic area. For example, a project may include a bridge (structure), resurfacing and drainage improvements (roadway), and related striping (signing and pavement markings). When ready for letting, one or more projects may be combined in a proposal. The proposal includes any additional components (letting, award, and execution information) necessary for the contract.

9.1.3 Training & Helpful Hints
Training is available from the State Specifications and Estimates Office, Engineering Systems Support section. Dates are scheduled at the District Offices, when requested. Please contact your District Estimates Office to request training.

Additional information and “Helpful Hints” handouts are available on the Estimates Office web pages at [http://www.dot.state.fl.us/estimates/Training/training.htm](http://www.dot.state.fl.us/estimates/Training/training.htm)

9.1.4 Security
Security within TRNS*PORT is managed by Control Groups (access to Projects & Proposals) and Roles (User functions).

- **Control Groups:** Control Groups are used by TRNS*PORT to assign projects and/or proposals to selected users or groups. The typical designer (user) control group is CD??U525, where CD indicates that the project is for Construction (as opposed to Maintenance), originating in the District. The question marks (??) are wildcard indicators for the district number. These wildcards may be replaced by a two digit number, when the user is restricted to a single district. Finally, the last 4 digits indicate the designer's company. The District Estimates Engineer assigns projects to a company's control group. A sample Project control group might be CD03U525. Note: by using the ?? for...
district number in a user’s control group, a designer (user) is permitted to see all projects, in all districts, which have been assigned to their company (project).

**User Control Group:** CD??A123  
**Project Control Group:** CD##A123, where ## is the district number, and A123 is the company code, as defined in TRNS*PORT PES.

If you are unable to access a project, contact your District Estimates Office. In the early design phase, it is possible that the project has not been assigned to your company. In later design phases, it is possible that the project has changed control for estimating and/or letting purposes. The Project Manager and/or District Estimates Office will make arrangements to return control to designers if/when revisions are necessary. Addendums (revisions after advertisement) must be coordinated with the District Estimates Office.

**Roles:** Most designers are given the role “Designer”. This role allows the designer to access the Designer Interface, as well as to run selected reports. Non-Designers may be given the role “Public”, to allow report access without the Designer Interface. Specialized roles are available to FDOT reviewers and estimators; contact the District Estimates Office for additional information.

### 9.2 Webgate

The Webgate is an internet page that serves as a doorway to the Designer Interface, Reports Menu, and other applications. It is accessed with the RACF userID and password.

#### 9.2.1 Menu

The screen below shows the options available at the Webgate menu.
The Webgate (formerly known as the Designer Web pages) was developed by FDOT to assist the Designer with pay item needs. With the Webgate, the designer uses an internet connection (dial-up, DSL, cable, etc.) to access the web pages located at https://www3.dot.state.fl.us/TrnsportReports/default.asp Additional Instructions and “Helpful Hints” handouts are located on the Estimates web pages at http://www.dot.state.fl.us/estimates/training/training.htm

9.2.2 Designer Interface: The Designer Interface is a tool used for loading project pay items into TRNS*PORT’s Project Estimating System (PES) module.

Projects are initiated in the FDOT Financial Management (FM) System. The District Estimates staff creates a project in PES, and transfers FM information into the header. The District Estimates staff then sets the control group, based on the design firm assigned to work on the project. Additional details are provided below for using the Designer Interface.

9.2.3 Reports: The Reports menu allows users to select and produce reports based on current “live” information. Some of the reports are based on historical (awarded) projects, while other reports are based on future (proposed) projects. Additional details are provided below for using the Reports.

9.2.4 Other Applications: Additional applications, including LRE (Long Range Estimates System), are available from the Webgate menu. Note that additional “roles” may be required to fully utilize these applications. Contact your District Estimates Office for information and/or to request access to these applications. Access will be based on the applications needed to complete the FDOT work assigned to a user and/or their employer.

9.3 Designer Interface

9.3.1 Project Access and Verification: Once assigned to a project, the designer should verify:
   a) that the project exists (or that proper control has been given)
   b) that all project header information is correct

If proper control is not given, the project will not appear on the designer’s list of available projects. The designer should contact the District Estimates Office to request control. See below for more information on Control Groups.

9.3.2 Headers: TRNS*PORT information is grouped at various levels:
   Proposal
   Project
   Category (aka Design Group)
   Pay Item

Each level includes information applicable to the levels above and/or below it.
9.3.2.1 Proposal Headers: The District Estimates Office creates the proposal prior to the letting. The proposal is used to “link” or “string” one or more projects, for letting purposes. All projects must be assigned a proposal number prior to advertisement.

Note: The State Estimates Office recommends that the proposal be created between 90-100% plans. Creating the proposal prior to 90% plans is possible, but causes PES issues when adding or deleting pay items- section and line numbers must be re-generated within PES, prior to producing a proposal summary. Currently, the designer must request that the District Estimates Office “Generate Section and Line Numbers.”

9.3.2.2 Project Headers: When first given access to the project, and at each design phase, the designer must verify the project header information. While much of this information is automatically transferred from FM to TRNS*PORT, the designer should check the letting date, spec year, and other information. Any errors should be immediately reported to the FDOT project manager for correction.

If project header information is incorrect, DO NOT attempt change it; this information is refreshed nightly from FM. It MUST BE CORRECTED IN FM. The designer should contact the FDOT project manager prior to making any changes. The project manager will coordinate FM changes with the responsible office(s) in the district. See below for more information on Project Headers.

9.3.2.3 Category Headers: From the project level of the Designer Web Pages, the designer can select, copy, and/or delete categories. At a minimum, each component set of plans (structures, roadway, lighting, etc.) must have a corresponding category. In accordance with the Plans Preparation Manual (PPM), it is possible to have minor/incidental work from another design group included on the roadway plans, yet still have a separate category for pay items. Unused categories should be deleted.
Items are categorized by pay item range:

<table>
<thead>
<tr>
<th>Item Numbers (Specification Sections)</th>
<th>SUBJECT/GROUP</th>
<th>TRNS*PORT Category / Design Group/ Plans</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-102</td>
<td>MOT</td>
<td>0200 Roadway</td>
</tr>
<tr>
<td>103</td>
<td>Temporary Structures</td>
<td></td>
</tr>
<tr>
<td>104</td>
<td>Erosion Control</td>
<td>Drainage</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Environmental</td>
</tr>
<tr>
<td>106-108</td>
<td>Environmental Coordinator</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Water/Erosion Control</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Air Quality</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Decontamination/Hazardous Materials</td>
</tr>
<tr>
<td>109</td>
<td>Field Office</td>
<td></td>
</tr>
<tr>
<td>110-199</td>
<td>&quot;Dirt&quot; Earthwork</td>
<td>Roadway</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Erosion Control</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Topsoil/Vegetation</td>
</tr>
<tr>
<td>200-299</td>
<td>Base Courses</td>
<td></td>
</tr>
<tr>
<td>300-399 except 346-347</td>
<td>Surface Courses, Concrete Pavement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Concrete</td>
<td>0100 Structures or 0200 Roadway</td>
</tr>
<tr>
<td>400-499 except 425-449</td>
<td>Structures</td>
<td>0100 Structures</td>
</tr>
<tr>
<td></td>
<td>Drainage Structures</td>
<td>0200 Roadway</td>
</tr>
<tr>
<td>500-515</td>
<td>Incidental Construction- Structures</td>
<td>0100 Structures</td>
</tr>
<tr>
<td>516-559</td>
<td>Incidental Construction- Roadway Items</td>
<td>0200 Roadway</td>
</tr>
<tr>
<td>560-569</td>
<td>Incidental Construction- Structural Paint</td>
<td>0100 Structures</td>
</tr>
<tr>
<td>570-599</td>
<td>Incidental Construction- Turf &amp; Landscaping</td>
<td>0200 Roadway or 0600 Landscaping</td>
</tr>
<tr>
<td>600-699</td>
<td>Traffic Control Devices (Signals)</td>
<td>0500 Signals</td>
</tr>
<tr>
<td>700-714</td>
<td>Traffic Control</td>
<td>0300 Signing</td>
</tr>
<tr>
<td>715</td>
<td>Traffic Control- Lighting</td>
<td>0400 Lighting</td>
</tr>
<tr>
<td>720-740</td>
<td>Incidental Construction- Other</td>
<td>0200 Roadway</td>
</tr>
<tr>
<td>741-749</td>
<td>Incidental Construction- Traffic Monitoring (TMS)</td>
<td></td>
</tr>
<tr>
<td>750-770</td>
<td>Incidental Construction- Other</td>
<td></td>
</tr>
<tr>
<td>780-789</td>
<td>Intelligent Transportation Systems (ITS)</td>
<td>0550 ITS</td>
</tr>
<tr>
<td>800-899</td>
<td>Mass Transit (Railroad)</td>
<td>0900 Mass Transit</td>
</tr>
<tr>
<td>1000-1999</td>
<td>Utilities</td>
<td>0100 Structures</td>
</tr>
</tbody>
</table>

NOTE: While pay item ranges are generally grouped by category, some items may be used in multiple categories. Refer to the specific items for details.

**9.3.2.4 Bridge Category Header:** The bridge header requires information specific to each structure. Each bridge must be loaded into a separate category, with details specific to that bridge. With each bridge category, the Designer Interface
requires that the bridge category header information, specifically the bridge ID, be entered prior to loading/editing pay items. The following fields must be completed:

- **Alternate Code**: leave blank unless using alternate structures. Contact your District Estimates Office for assistance when considering alternate structures.
- **Bridge Length (feet)**: Enter the total bridge length, not including approach slabs.
- **Bridge Width (feet)**: Enter the total bridge deck width, from outside to outside of traffic railing. For bridges with variable width, divide the total bridge deck area, outside to outside, by the length to obtain the average width.
- **Number of Spans**: Enter the correct number
- **Bridge Type**: Select the appropriate type.

*Note: As of April 2005, the list of bridge types and the corresponding definitions are under review. Contact your District Estimates Engineer if assistance is needed. An updated list will be included with the October 2005 update.*
- **Bridge ID**: Enter the valid bridge number. For bridge replacements, use the new bridge ID (replacement) number, not the old number.
  
  Note that the Structures Detailing Manual (also referenced by the PPM) recommends that the bridge ID be obtained in the early design phase. By phase 2 and phase 3 submittals, as defined in the PPM, this information must be known in order to correctly complete the TRNS*PORT pay item information.
- **Begin/End Termini**: Not used.
- **Superstructure Type**: Select the appropriate type; for box culverts, select “none”.
- **Substructure Type**: Select the appropriate type; for box culverts, select “none”.
- **Foundation Type**: Select the appropriate type; for box culverts, select “none”.
- **Structure Location**: Select the appropriate type.
- **Structure Work Type**: Select the appropriate type; for pedestrian overpass, select “Miscellaneous”.

**9.3.2.5 Pay Item Header**:
Pay Item header information (description, unit of measure, etc.) is maintained by the State Estimates Office, Engineering Systems Support section. Any errors in the pay item header should immediately be brought to the attention of the State Estimates Office.

If the pay item description does not meet the project needs, refer to Chapter 6 for Requesting a New Pay Item. Additional items can be created within 24 hours, pending approval of the specifications. See below for additional information regarding pay items.

**9.3.3 Leading Zeros**: Leading zeros for pay items are optional, except as required by the TRNS*PORT system.

- **Designer Web Pages / Summary of Pay Items**: When entering English items 50- through 999 into the TRNS*PORT system, a leading zero must be added before the first group of digits, i.e. 102- 1 becomes 0102- 1. (A leading zero replaces the leading space only in the first group of digits.) Metric items and English Utility items are unaffected, as they already have four numbers in the first group of digits.
- **Comp Book Forms**: Automated comp book forms use pay items generated by the TRNS*PORT system, and therefore will include the leading zero. (The
automated comp book forms may also be used by TRNS*PORT’s Site Manager module. The leading zero must be retained on these forms.)

**CADD Forms:** CADD forms, including tabulation sheets in the plans, will be accepted with or without the leading zero.

**Other Documents:** The plans, specifications, standards, and other documents, including the BOE, will continue to refer to the item numbers without the leading zero.

9.3.4 Alternates: Pay Item Alternates use a 3 character code to describe the Category, alternate group, and item(s) within the group. Using structures alternates as an example, category letter would be A. The first alternate group would be A, and the items for the alternates would start with 1. For bid items, with the above example, the alternate code might be:

- AA1 Item 0450-999-1
- AA1 Item 0450-999-2
- AA1 Item 0450-999-3
- AA2 Item 0450-999-4
- AA2 Item 0450-999-5

In the above example, the contractor would be required to bid either the AA1 or AA2 group, that is, AA1 group items 0450-999-1, 0450-999-2, and 0450-999-3 OR AA2 group items 0450-999-4 and 0450-999-5.

If there is a need to consider alternate categories (rather than just alternate items), contact your District Estimates Office for assistance.

9.3.5 Participating/Non-Participating Field: The column labeled “Non-Part” within the designer interface screens and reports is an indicator or “flag” for those items not participating in the major funding group, as defined in PES. Designers are no longer able to change this field. Please consult with your District Estimates Engineer if unusual funding is anticipated.

9.3.6 Pay Items, TRNS*PORT Category, and Component Plans: Pay items within a category must correspond to the work shown in the component plans. For example, the signals items shown in the signals category/summary of pay items must correspond to the work shown in the signals plans.

Category totals are used for reporting purposes. Ensure that all work shown in a category uses the appropriate items for that category. Additional reminders are as follows:

For landscaping- all work must be detailed in the plans.
For structures- each bridge must be entered separately. All work associated with each structure must be entered accordingly.
For ITS- only projects identified by the State ITS office, with ITS funding, are to be entered with ITS pay items. (Signals projects without ITS funding should use signals items with signals plans, even for computerized or future ITS installations.)
For Signals- use signals pay items.
For lighting- use lighting pay items.
Note: Some items are valid in multiple categories; they include directional drilling, jack & bore. Some items are separated by category and specification; they include conduit (separate items for lighting, signals, ITS, and utilities), fiber optic, pull & junction boxes, electrical work, and foundations. Select the pay item appropriate for the category and work to be completed. Refer to the specifications for materials and installation requirements.

9.4 Reports

9.4.1 General: Many of the reports are available to any user with access to the Reports Menu. The reports listed below are generally used by the Designer, with the “Designer” role. Users with a “Public” role may not have access to all of the reports listed below.

The following definitions are important in TRNS*PORT.

Project: A single project, with appropriate Financial Project number, header information, funding, items, etc.

Proposal: One or more projects combined for the purpose of creating a contract for letting. Projects are “strung” only when combined to form a proposal. The District Estimates Office, according to district practices, will create proposals.

9.4.2 Project Edit Report: The Project Edit Report is the single most important report. It should be run at the project level after updating any items or quantities, after an update bulletin, or after a project has been idle or “shelved” for a period of time. In addition to listing the current items and quantities, this report will provide an item check based on the proposed letting date.

9.4.3 Master Pay Item List: The Master Pay Item List is a list of items currently available in the TRNS*PORT PES module. It also includes valid (effective/obsolete) dates, a Tech Spec flag, and a Reference Price from LRE. Additional items are opened upon request; refer to Chapter 6 for additional information.

Note: The Reference Price is for general information only. It is based on a weighted average, with extreme high/low values removed. It should NOT be used for project estimates, without consideration of other project conditions.

9.4.4 Proposal Summary of Pay Items (CADD): After the District Estimates Office has created a proposal, the Designer will be able to select a Proposal Summary of Quantities from the Reports menu. After entering the proposal number, a report (.txt format) will be sent to the CADD ftp site. The designer can download and import the file according to established CADD procedures.

For early phase reviews (up to 90%, or until the proposal has been created), the Project Summary of Quantities Report must be used. (No proposal, no proposal report.) If multiple projects are anticipated to be let together, the Designer should be sure to print each project’s Summary of Quantities for review. These reports may be printed on standard 8.5” by 11” paper.

For later phase reviews (90%, or after the proposal has been created), the Proposal Summary of Quantities Report should be used. After the Designer submits the...
report from the interface menu, the output will be sent to the CADD ftp site in 5-10 minutes.

9.4.5 Project Summary of Pay Items: This report will print in .pdf format for a specified project. This report will be used for early phase reviews. Note: If a proposal has already been created, the proposal number will be included in the report header.

9.4.6 Project Item List: This report will list the items and quantities for a given project number.

9.4.7 Pay Item Average Unit Cost: This report will provide historical project information for specific pay items. Note: The pay items must be entered individually, rather than as a group. This report is helpful when detailed project information is needed for a specific pay item.

9.4.8 Item Average Unit Cost: This report provides a historical average for a pay item range, over a specified date range. This report is helpful when general price information is needed for selected pay item(s).

9.4.9 Custom Reports: The State Estimates Office has the ability to create and/or run custom reports for user specified criteria. Please contact your District Estimates Office if custom reports are needed.

Note: Pricing for individual projects does not require a custom report. Pricing (Authorization and Official Estimate) before the letting is completed by the District Estimates Office using the TRNS*PORT CES module. Design estimates should be project specific- based on specifications, location, market area, materials, quantity, equipment, labor, and other related factors.

Chapter 9 Revision History

10-1-2008: Updated 9.3.6 Pay Items, TRNS*PORT Category, and Component Plans to include examples of items/category usage.
Chapter 10
Formatting Pay Items
10.1 General
The purpose of this Chapter is to assist those responsible with maintaining the pay item structure and associated documentation. It will also assist users with understanding how/why pay items are formatted.

Much of the information in this Chapter begins as a Pay Item Request. Refer to Chapter 6 for information on completing the pay item request form.

This chapter should be considered a guide for pay items. It is not a restriction on how they may/may not be used. Each pay item should be evaluated based on the many needs of our customers: Design, Estimates, Construction, Contracts, and Management. Note that the needs of one group may be considerably different than those of another. Communication between these groups, whenever a pay item is evaluated, is essential.

10.2 Format / Legend
The pay item information shown in the online BOE is formatted as follows:

<table>
<thead>
<tr>
<th>Pay Item Number</th>
<th>PAY ITEM DESCRIPTION</th>
<th>Unit</th>
<th>Accuracy</th>
<th>Plan Quantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Notes</td>
<td>Important Notes or Dates</td>
<td></td>
<td>Details</td>
<td></td>
</tr>
<tr>
<td>Details</td>
<td>Details</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Related Items</td>
<td>Required</td>
<td></td>
<td>Recommended</td>
<td></td>
</tr>
<tr>
<td>Forms</td>
<td>Design</td>
<td></td>
<td>Construction</td>
<td></td>
</tr>
<tr>
<td>Documentation</td>
<td>Design</td>
<td></td>
<td>Construction</td>
<td></td>
</tr>
<tr>
<td>References</td>
<td>PPM Chapter</td>
<td></td>
<td>Standards</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Specifications</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>P&amp;DM Chapter(s)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Status</td>
<td>Tech Spec Recommended</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Structure</td>
<td>Item Description</td>
<td></td>
<td>Unit</td>
<td></td>
</tr>
<tr>
<td></td>
<td>English Structure</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>English Structure Notes</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Pay Item Number: Each 10 digit Pay Item is structured into three parts: 1234-567-890. Spaces and/or digits may be used to detail an item.
Within the first group (first 4 digits), the leading digit indicates the unit system: 0 - English, 1 - English Utilities, 2 - Metric, 3 - Metric Utilities, 9 - Special. The remaining digits (second through fourth digits), identify the applicable Specification Section.

The remaining groups (fifth through tenth spaces/digits), are descriptive fields, as detailed for each item. These variables are described in the pay item structure below.

**Pay Item Description:** The Description. This description may be abbreviated on some reports, due to space constraints. The Complete (Long Description) is used whenever possible.

**Unit:** Unit of measure, as defined in Chapter 2. When secondary units are shown, they are intended for estimating purposes, and should be documented in the Comp Book or plans as instructed.

**Accuracy:** The degree of accuracy of decimal rounding for the total quantity of the item. Intermediate computations should be made to at least the next higher decimal.

**Important Notes or Dates:** Many pay items are blocked or opened with an effective letting date. Verify that the applicable dates correspond a project's scheduled letting date. TRNS*PORT PES will verify dates for selected pay items.

Important dates are normally shown in this field for 1 year after implementation of the change.

**Detail:** Description of the most common usage of the pay item, intended to assist designers with the selection of pay items. Also includes, when necessary, detailed information useful to the designer for calculating quantities and determining related pay items. Text may include "Use When...", "Do not use when...", "Estimate xx items per...", and/or "Item(s)... are recommended/required when this item is used."

See errors & omissions below for an explanation of missing detail information.

**Related Items, Recommended:** Lists item numbers that are recommended, or should be considered, when using this pay item.

**Related Items, Required:** Lists item numbers that, under normal circumstances, are required when using this pay item.

**Original, Design:** Available Methods for documentation of design quantities in the plans and/or computation book, with appropriate form numbers noted.
When both a CADD and COMP book form are listed, the designer should select the appropriate form based on the item and form contents. Some forms have additional fields to detail complex lines, grades, areas, and/or other features. **Do NOT use both a CADD and COMP book form for the same item.**

**Final, Construction:** Required methods for detailed back-up calculations and documentation of final pay quantities, with appropriate form numbers noted.

**Plan Quantity?:** Indicator (Yes or No) that this item is (or is not) designated to be paid under the Plan Quantity concept, per Article 9-1.3.2 of the Specifications. Refer to specifications for measurement and payment details.

**References, PPM Chapter, SDGs, Other:** *This field is currently under development.* Links are provided to applicable Plans Preparation Manual Chapter(s), Structures Design Guidelines, or other design references.

**FEPDM:** Final Estimates Preparation and Documentation Manual reference chapter number(s), when applicable.

**Standards:** Indicates the index sheet number(s) for the applicable Design Standards. When listed, the pay item must be used in accordance with the referenced standard. Contact the BOE Coordinator and/or Responsible Office for non-standard applications. Non-standard applications may be required to use a different pay item number.

**Specifications:** *This field is currently under development.* Links are provided to current Standard Specifications (Specifications Book) and/or current workbook. These links are for reference purposes only; the designer is responsible for using applicable specifications, as available from the State Specifications Office. Contact your District Specifications Office for further assistance.

**Status:** Indicates the status of the Item Structure. Refer to Chapter 6 for assistance with items that are not currently open in the Master File.

**Plan Detail and/or Tech Spec recommended:** Coordinate with your District Specifications Office. If blank, a Tech Spec is not normally necessary.

**NOTE:** If the current specifications do not appropriately cover the work necessary for a given project, a plan detail and/or Tech Spec may be necessary. Standard Specifications DO NOT normally cover “custom”, “modify”, “special”, or “relocate”, as these are project specific situations. Plan Details and/or Tech Specs will be required. Remember—complete specifications for each pay item include a description of the work, materials and/or equipment required, construction or performance requirements, method of measurement, and basis of payment.

**Structure:** Item Description Unit
English Structure

English Structure Notes

The pay item structure ###-abc-def, should be used to define parameters which affect the price (i.e. size, shape, material), where variables a through f are detailed as needed.

Common Operations- refer to individual items as needed:
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust & Modify)
6 (Remove & Dispose)
7 (Remove & Stockpile)
8 (Plug & Place out of service)
9 other item specific operation, as needed

Parameters which do not affect the price may be detailed in the plans; DO NOT create additional pay item structures for these parameters. Limited structures can be used to encourage price competition between products that perform similar functions and/or provide similar end results (i.e., more items, less history per item).

For most reports, including the Master Pay Item List and Pay Item Summary, descriptive information, such as size, shape, and color, will be bracketed and included after the primary description. The title and/or description may be abbreviated on various reports, as necessary.

Although the BOE listing shows all valid combinations of pay items, not all of the pay items are currently open for use. Refer to the Master Pay Item List for currently open items. For additional information on opening or requesting new pay items, refer to Chapter 6.

Note that the metric pay item structure is maintained in the BOE Database, but not currently published in the online BOE.

Additional Notes: Additional notes, as provided by the responsible office or C-Team, may be included in the Notes or Detail fields.

10.3 Pay Item Ranges

Ranges are established to combine items/sizes with similar installed costs. When a pay item range is used, the designer must specify the specific size/shape needed on the plans and/or tabulation sheet(s). Ranges are not intended as a “contractor’s option”.

Formatting Pay Items
10.4 Where to Find It

As noted above, the first 3 digits of the pay item corresponds to the applicable specification section. The following table is helpful for finding the pay item group. Note that it does not include all possible section numbers; it is only a guide help identify “Where to find it…”

<table>
<thead>
<tr>
<th>Pay Item Group/ Specification Section</th>
<th>Description, including key words for searches</th>
</tr>
</thead>
<tbody>
<tr>
<td>101 Mobilization</td>
<td></td>
</tr>
<tr>
<td>102 Maintenance of Traffic</td>
<td></td>
</tr>
<tr>
<td>104 Erosion Control</td>
<td></td>
</tr>
<tr>
<td>110 Clearing and Grubbing</td>
<td></td>
</tr>
<tr>
<td>120-175 Excavation, Embankment, and other Earthwork</td>
<td></td>
</tr>
<tr>
<td>200s Base Courses</td>
<td></td>
</tr>
<tr>
<td>300-341 Bituminous Mixtures, Milling, Superpave, Friction Courses</td>
<td></td>
</tr>
<tr>
<td>346-347 Portland Cement Concrete</td>
<td></td>
</tr>
<tr>
<td>350-353 Concrete Pavement</td>
<td></td>
</tr>
<tr>
<td>400 Concrete Structures</td>
<td></td>
</tr>
<tr>
<td>415 Reinforcing Steel</td>
<td></td>
</tr>
<tr>
<td>425-449 Drainage: Inlets, Manholes, Junction Boxes, Pipe, Trench Drain, Underdrain, French Drain, Edgedrain</td>
<td></td>
</tr>
<tr>
<td>450 Precast, Prestressed Concrete</td>
<td></td>
</tr>
<tr>
<td>455 Structures Foundations: Piling, Drilled Shafts</td>
<td></td>
</tr>
<tr>
<td>470 Timber Structures</td>
<td></td>
</tr>
<tr>
<td>508-510 Movable Bridges: Navigation Lights, Machinery</td>
<td></td>
</tr>
<tr>
<td>520s Concrete Gutter, Curb, Barriers, Traffic Separator, Sidewalk</td>
<td></td>
</tr>
<tr>
<td>523 Patterned/Textured Pavement</td>
<td></td>
</tr>
<tr>
<td>530 Riprap</td>
<td></td>
</tr>
<tr>
<td>534 Sound Barriers</td>
<td></td>
</tr>
<tr>
<td>536-538 Guardrail</td>
<td></td>
</tr>
<tr>
<td>550 Fencing</td>
<td></td>
</tr>
<tr>
<td>555-557 Directional Bore, Vibratory Plowing, Jack &amp; Bore</td>
<td></td>
</tr>
<tr>
<td>570-580 Grassing, Seeding, Sodding, Landscaping, Trees, Plants</td>
<td></td>
</tr>
<tr>
<td>600s Signalization: Conduit, Mast Arms, Detectors, Cabinets</td>
<td></td>
</tr>
<tr>
<td>700-705 Signing, Delineators</td>
<td></td>
</tr>
<tr>
<td>710-714 Pavement Markings: Paint, Thermo</td>
<td></td>
</tr>
<tr>
<td>715 Lighting: Poles, Conduit,</td>
<td></td>
</tr>
<tr>
<td>780s Intelligent Traffic Systems (ITS)</td>
<td></td>
</tr>
<tr>
<td>800s Mass Transit</td>
<td></td>
</tr>
<tr>
<td>900s Special, Developmental, Trial Items</td>
<td></td>
</tr>
</tbody>
</table>
10.5 Errors, Omissions, Comments

The Engineering Support Section of the State Estimates Office maintains the Basis of Estimates, Pay Item Structure, as well as the Master Pay Item List(s). Details, notes, and documentation information is based on information provided with the pay item request. When a detail is missing or incomplete, you may contact the responsible coordinator (listed in Chapter 5), or submit a recommendation via e-mail. Links are provided within the BOE pages on the Estimates web pages at www.dot.state.fl.us/estimates.

While we make every effort to provide the most current information, pay items and related FDOT handbooks/manuals are continuously developing.

If an error is found with any of the BOE content, please notify the State Estimates Office- Engineering Support Section.

We appreciate your comments and suggestions.

Chapter 10 Revision History

Chapter 11

*Items 000 to 199*

State Specifications and Estimates Office
Estimating Systems Support Section
### 50- A- DESIGN / BUILD

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>Lump Sum</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS/LS</td>
<td></td>
<td></td>
<td>no</td>
</tr>
</tbody>
</table>

#### Notes

This item to be used for Districts letting Design-Build projects. This item to be used only when identified by the District as a "Design-Build" project. Include Initial Contingency Amount under 999- 25 (2999- 25) item.

#### Related Items

**Required** 999- 25 (2999- 25)  
**Recommended**

#### Forms

- **Design**: SHTabQuantLS  
  - COMP 700-050-05  
  - Refer to Comp Book

- **Construction**: Design  
  - Contractor is responsible for design. The computation book, if required, will show lump sum tasks (lump sum constructed project pay items), as listed in the proposal.
  
  - Construction: Any adjusted final quantities for the lump sum payment will require appropriate documentation and Supplemental Agreements. The "as-built" final plans must show any additions/deletions that occurred on the project.

#### Documentation

**PPM Chapter**

**Other**

**Standards**

**Specifications**

Plan Detail and/or Tech Spec Required

**Prep & Doc Manual Chapter(s)**: 11

---

**TRNS*PORT Category (DRAFT FIELD):**  
0200 Roadway

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

#### 101- 1- MOBILIZATION

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>Lump Sum</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS/LS</td>
<td></td>
<td></td>
<td>yes</td>
</tr>
</tbody>
</table>

#### Notes

Consists of work and operations necessary to begin work on a project. Includes moving in equipment and personnel, establishing temporary offices, safety equipment and sanitary facilities. May include surveying, bond and insurance expenses. In some cases, may consist of security services and/or expenses associated with night work.

For contracts with more than one project, the pay item for Mobilization will be shown on each project's Summary of Pay Items. An exception to this is when the contract contains a Joint Project Agreement (JPA); the Mobilization will not be shown on the Summary of Pay Items for the JPA; the cost of Mobilization will be included in the prime project.
### forms

<table>
<thead>
<tr>
<th>Design</th>
<th>SHTabQuantLS</th>
<th>COMP 700-050-05</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
<td></td>
</tr>
</tbody>
</table>

### documentation

<table>
<thead>
<tr>
<th>Design</th>
<th>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.</td>
</tr>
</tbody>
</table>

### References

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Design</th>
<th>Construction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standards</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specifications</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prep &amp; Doc Manual Chapter(s)</td>
<td>7, 13</td>
<td></td>
</tr>
</tbody>
</table>

### TRNS*PORT Category (DRAFT FIELD):

| 0200 | Roadway |

### Status

| Struct. | 101- 1- | MOBILIZATION | LS/LS |

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

---

### 102- 1- MAINTENANCE OF TRAFFIC

| Unit | LS/DA | Accuracy | Lump Sum (Day) | PlanQuantity? | yes |

#### Details

Includes all items required to safely maintain traffic throughout a transportation work zone with minimal inconvenience to the public and fit into one of the following categories:

1) cannot reasonably be quantified;
2) cannot be addressed under current pay items;
3) are incidental to the operations necessary to safely maintain traffic throughout a work zone.

Code the second unit of measure (number of days) from the construction day estimate.

For contracts with more than one project, the pay item for Maintenance of Traffic will be shown on each project's Summary of Pay Items. An exception to this is when the contract contains a Joint Project Agreement (JPA): the Maintenance of Traffic will not be shown on the Summary of Pay Items for the JPA; the cost of Maintenance of Traffic will be included in the prime project.

#### Related Items

<table>
<thead>
<tr>
<th>Forms</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuantLS</td>
<td>COMP 700-050-05</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Documentation</th>
<th>Design</th>
<th>Use a quantity of 1, but calculations and documentation must be to the second unit of measure. Locate or define the scope of work involved on the plans.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.</td>
<td></td>
</tr>
</tbody>
</table>

### References

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Design</th>
<th>Construction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standards</td>
<td>Index No. 600</td>
<td></td>
</tr>
<tr>
<td>Specifications</td>
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</tr>
</tbody>
</table>

Details and Structure: Items 000 to 199
### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

#### 102- 2- AA SPECIAL DETOUR

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS/LS</td>
<td>Lump Sum</td>
<td>yes</td>
</tr>
</tbody>
</table>

#### Details

Consists of work and materials necessary to construct a diversion (Temp Roadway). May also include temporary bridge (Acrow panel, or similar.) The quantities for major items necessary for the Special Detour shall be shown in the plans but paid for under Special Detour. Items that will be used in the Special Detour that will remain as part of the final product will be paid for under the appropriate pay item (i.e., earthwork). Show the limits of each Special Detour in the plans. Traffic control devices, warning devices, barriers, signing and pavement markings will be paid for separately.

#### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td>Design</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Design</th>
<th>SHTabQuantLS</th>
<th>COMP 700-050-05</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
<td></td>
</tr>
</tbody>
</table>

**Documentation**

<table>
<thead>
<tr>
<th>Design</th>
<th>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.</td>
</tr>
</tbody>
</table>

#### References

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Other</th>
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<tbody>
<tr>
<td>Standards</td>
<td>Specifications</td>
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</table>

**Prep & Doc Manual Chapter(s)** 7, 13

#### Status

<table>
<thead>
<tr>
<th>Struct.</th>
<th>MAINTENANCE OF TRAFFIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>102- 1-</td>
<td>LS/DA</td>
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</table>

**References**

- PPM Chapter
- Other
- Standards
- Specifications

**Prep & Doc Manual Chapter(s)** 7, 13

#### Status

<table>
<thead>
<tr>
<th>Struct.</th>
<th>MAINTENANCE OF TRAFFIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>102- 2- AA</td>
<td>SPECIAL DETOUR</td>
</tr>
</tbody>
</table>

AA = Detour Number
1 (First Detour Of Several)
2 (Second Detour Of Several)
3 (Third Detour Of Several)
4 (Fourth Detour Of Several)
N (Nth Detour Of Several)
N = 1 Thru 56
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0102 2 21</td>
<td>SPECIAL DETOUR 21</td>
<td>LS</td>
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<tr>
<td>0102 2 22</td>
<td>SPECIAL DETOUR 22</td>
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<td>1/1/2007</td>
<td></td>
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<td>$50,000.00</td>
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<tr>
<td>0102 2 23</td>
<td>SPECIAL DETOUR 23</td>
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<td>SPECIAL DETOUR 24</td>
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<td>SPECIAL DETOUR 25</td>
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<tr>
<td>0102 2 26</td>
<td>SPECIAL DETOUR 26</td>
<td>LS</td>
<td>1/1/2007</td>
<td></td>
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<tr>
<td>0102 2 27</td>
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<td>LS</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$50,000.00</td>
</tr>
<tr>
<td>0102 2 28</td>
<td>SPECIAL DETOUR 28</td>
<td>LS</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$50,000.00</td>
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<tr>
<td>0102 2 29</td>
<td>SPECIAL DETOUR 29</td>
<td>LS</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$50,000.00</td>
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<tr>
<td>0102 2 30</td>
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<td>LS</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$50,000.00</td>
</tr>
</tbody>
</table>

### 102- 3- COMMERCIAL MATERIAL FOR DRIVEWAY MAINTENANCE

**Unit**: CY; M3  
**Accuracy**: Cubic Yard; Cubic Meter  
**PlanQuantity?**: no

**Details**
Consists of furnishing and placing suitable material which may be necessary for providing safe access to businesses and residences affected by the construction. If authorized, portions of this material may be salvaged and reused at other driveways along the length of the project. Use 250 cubic yards per mile (200 cubic meters per kilometer) on rural projects and 500 cubic yards per mile (400 cubic meters per kilometer) on urban projects. Use 250 cubic yards (200 cubic meters) as a minimum. The final quantity shall be determined by truck measurement, loose volume. For final quantity, measure the width, height, and length inside the truck bed; calculate the volume by multiplying those three dimensions. Subtract 2% of the result to account for the hoist box and bed fillets.

**Related Items**

- **Required**: SHTabQuant  
- **Recommended**: COMP 700-050-04

**Forms**
- **Design**: 700-050-54
- **Construction**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Documentation**
- **Design**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**
- **PPM Chapter**: 7, 13  
- **Other Standards**
- **Specifications**

**Prep & Doc Manual Chapter(s)**: 7, 13

**TRNS*PORT Category (DRAFT FIELD)**: 0200 Roadway

**Status**

- **Struct.** 102- 3- COMMERCIAL MATERIAL FOR DRIVEWAY MAINTENANCE CY

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
## 102- 11- SERVICE PATROL

<table>
<thead>
<tr>
<th>Unit</th>
<th>MH</th>
<th>Accuracy</th>
<th>Hour</th>
<th>PlanQuantity? yes</th>
</tr>
</thead>
</table>

**Notes**

Used when it is determined during design that an active service patrol will be needed to keep traffic flowing. The Traffic Control Plan (TCP) or Technical Special Provisions should explain when and where the service patrol will be needed, as well as what type of services will be provided, and what type of service vehicle will be needed. Time shall be based on an 8 hour day.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>700-050-03</td>
</tr>
</tbody>
</table>

**Design**

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Construction**

All field records are required for this item. Final payment is based on field book/records.

**References**

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Index No. 600</td>
<td></td>
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</tbody>
</table>

**Prep & Doc Manual Chapter(s)**

7, 13

**TRNS*PORT Category (DRAFT FIELD):**

0200 Roadway

**Status**

Struct. 102- 11- SERVICE PATROL MH

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*
*traffic control in a signalized intersection when signals are not in use,  
*when standard index no. 619 (moving operations) are used on Interstate at nighttime and  
required by the plans,  
*when pacing/rolling blockade specification is used (Tech Spec Recommended).  
The Department will include pay item 102-14 for officers directing traffic as defined above.  
For Speed and Law Enforcement officers, see pay item 999-102

**Related Items**

<table>
<thead>
<tr>
<th>Forms</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-03</td>
</tr>
<tr>
<td>Construction</td>
<td>700-050-50</td>
<td></td>
</tr>
</tbody>
</table>

**Documentation**

| Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. |
| Construction | All field records are required for this item. Final payment is based on field book/records. |

**References**

| PPM Chapter |  |
| Other |  |
| Standards | Index No. 619 |
| Specifications |  |

**Prep & Doc Manual Chapter(s)**

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

**Struct.** 102-14- TRAFFIC CONTROL OFFICER MH

**Notes**

Refer to 999-102 for Speed/Law Enforcement

**The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0102 14</td>
<td>TRAFFIC CONTROL OFFICER</td>
<td>MH</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$48.48</td>
</tr>
</tbody>
</table>

**102-60- WORK ZONE SIGN**

| Unit | ED | Accuracy | Each Day | PlanQuantity? | no |

**Notes**

**Details**

Used for the purpose of informing motorists of the work zone and work zone related (i.e. temporary regulatory or temporary route) conditions that will be encountered. Tabulate the number of individual sign panels (20 square feet or less)/(1.9 square meters or less) as recorded per day for each phase of the project. When multiple signs are located together on a single or multiple posts, each sign panel will be paid for individually.

Non-standard sign panels, including Project Information Signs, (greater than 20 square feet)/(greater than 1.9 square meters) will be detailed in the plans and paid for under Maintenance of Traffic, Lump sum.

**Related Items**

<table>
<thead>
<tr>
<th>Forms</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-03</td>
</tr>
<tr>
<td>Construction</td>
<td>700-050-51</td>
<td></td>
</tr>
</tbody>
</table>

**Documentation**

| Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. |
| Construction | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

**Details and Structure:** Items 000 to 199
### 102- 60- WORK ZONE SIGN ED

**Notes**: Signs LESS THAN 20 sf only- see details above

---

### 102- 61- BUSINESS SIGN

**Unit**: EA  
**Accuracy**: Each  
**PlanQuantity?**: no

**Details**: Used for the purpose of assisting the motorists find the appropriate business driveway entrance while the roadway is under construction. The quantity is based on one business sign for each business whose driveway entrance could be affected. When several businesses share a common driveway, one sign per common driveway should be estimated.

**Required**  
**Design**: SHTabQuant  
**Construction**: 700-050-51

**Recommended**  
**Design**: COMP 700-050-03

**Documentation**  
**Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

---

### Related Items

**Forms**

<table>
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<th>Item Description</th>
<th>Unit</th>
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<td>0102 60 WORK ZONE SIGN</td>
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</table>

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### References

**PPM Chapter**  
**Other**  
**Specifications**  
**Prep & Doc Manual Chapter(s)** 7, 13

**TRNS*PORT Category (DRAFT FIELD)**: 0200 Roadway

---

### Status

**Struct.** 102- 60- WORK ZONE SIGN ED

**Struct.** 102- 61- BUSINESS SIGN EA

---

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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### Related Items

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<tr>
<th>Item Description</th>
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<th>Obsolete Date</th>
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<tr>
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</table>

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**Details and Structure**: Items 000 to 199
列入为保护旅行公众和工人的安全。可能从一个位置移到另一个位置。估计每个阶段所需的墙长度，然后选择任何阶段的最大长度作为临时屏障。相交在计划中必须指明适当的屏障长度以防止重新定位障碍物。将估算的阶段长度与剩余阶段的长度相加，并为长期屏障支付。如果使用此项目，包括灯光或眩光屏。

例如：
200 LF 需要用于阶段 1 = 200 LF F&I
300 LF 需要用于阶段 2 = 100 LF 从阶段 1 (不移动; 无支付) 和 100 LF F&I
150 LF 需要用于阶段 3 = 150 LF 从阶段 2 (剩余数量已堆放; 无支付)
400 LF 需要用于阶段 4 = 300 LF 从早期阶段或堆放 + 100 LF F&I
200 LF 需要用于阶段 5 使用阶段 4 墙的情况下新位置 = 0 LF 移动 (剩余数量堆放，如果稍后使用)

Note: No separate payment for "removal" or "stockpiling"

QPL-临时障碍墙应符合预批准的选择的列表要求，除非在计划中另有规定。

NOTE: For bridge applications, ONLY Type K permitted.

Related Items
Required 102- 79 or 102- 94-xab
Recommended 102- 81- 1, and/or 102- 89- xx

Forms
Design SHTabQuant
Construction Refer to Comp Book

Documentation
Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References
PPM Chapter
Other
Standards see detail
Specifications
Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status
Struct. 102- 71- AB TEMPORARY BARRIER WALL LF
A = Operation
1 (Furnish & Install)
2 (Relocate)
B = Material
1 (Concrete)
2 (Water filled)
3 (Low Profile Concrete)
4 (Type K) bridge applications

Notes: Effective 1/04 letting: B= 3, 4

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
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<td>0102 71 11</td>
<td>BARRIER WALL, TEMPORARY, F&amp;I, CONCRETE</td>
<td>LF</td>
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<td>1/1/2007</td>
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<td>$20.49</td>
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<td>0102 71 12</td>
<td>BARRIER WALL, TEMPORARY, F&amp;I, WATERFILLED</td>
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<td>$10.67</td>
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<td>0102 71 23</td>
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<td>1/1/2007</td>
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<tr>
<td>0102 71 24</td>
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<td>1/1/2007</td>
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<td>$11.48</td>
</tr>
</tbody>
</table>

102-73- TEMPORARY GUARDRAIL

Unit: LF; M1
Accuracy: Linear Foot; 10th of a Meter
PlanQuantity?: no

Notes
Details: For Temporary applications, use in accordance with Index 400. Payment includes installation, maintenance, and removal of guardrail.

For permanent applications, refer to 536 items.

Related Items
Required: SHTabQuant
Recommended: COMP 700-050-03

Forms
Design: Refer to Comp Book
Construction: Refer to Comp Book

Documentation
Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References
PPM Chapter
Other
Standards: Index No. 400
Specifications
Prep & Doc Manual Chapter(s): 7, 13
**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

**Struct. 102-73-** TEMPORARY GUARDRAIL LF

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<tr>
<th>Item</th>
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<tr>
<td>0102 73</td>
<td>TEMPORARY GUARDRAIL</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$8.06</td>
</tr>
</tbody>
</table>

**102-74- A** TEMPORARY BARRICADE

**Notes**

**Details**

Included for the protection of workers and the public from hazards within the traffic control zone. The designer is not to add plan notes specifying one type of barricade (Type I, II, DI, VP, or Drum). Note: DI = Direction Indicator Barricade, which is shown on Index 600. Estimate for each Traffic Control Plan phase based on the type of operation and duration anticipated as follows: Quantity = (Length of Setup / Barricade Spacing) X Phase Duration.

**Related Items**

- **Required**
  - Design: SHTabQuant
  - Construction: 700-050-51

- **Recommended**
  - Design: COMP 700-050-03
  - Construction: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
  - Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- PPM Chapter
- Other
- Standards: Index No. 600
- Specifications
- Prep & Doc Manual Chapter(s): 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

**Struct. 102-74- A** TEMPORARY BARRICADE ED

A = Type
1 (Types I, II, DI, VP & Drum)
2 (Type III- 6’)

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0102 74 1</td>
<td>BARRICADE, TEMPORARY, TYPES I, II, DI, VP &amp; DRUM</td>
<td>ED</td>
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<td>1/1/2007</td>
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<td>$0.18</td>
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<tr>
<td>0102 74 2</td>
<td>BARRICADE, TEMPORARY, TYPE III, 6’</td>
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<td>1/1/2007</td>
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<td>$0.38</td>
</tr>
</tbody>
</table>

**102-76-** ADVANCE WARNING ARROW PANEL

Details and Structure: Items 000 to 199
UNIT  ED  ACCURACY  EACH DAY  PLAN QUANTITY?  no

Notes
Included for the purpose of providing advanced warning of a lane closure. (Not intended for lane shifts.) Estimate the number needed for each Traffic Control Plan phase times the phase duration.

Details

Required

Recommended

Design  SHTabQuant  COMP 700-050-03

Construction  700-050-51

Design  Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction  Record final quantity on the tabulation sheet (plans) or computation form (comp book).

Related Items

Forms

Documentation

References

PPM Chapter

Other Standards  Index No. 600

Specifications

Prep & Doc Manual Chapter(s)  7, 13

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<tr>
<th>Item</th>
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</thead>
<tbody>
<tr>
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<td>ADVANCE WARNING ARROW PANEL ED</td>
<td></td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$8.09</td>
</tr>
</tbody>
</table>

Notes

Included as a safety device, to draw attention to the warning sign. The lights shall be mounted on the first advanced warning sign where only one sign is used, and on the first and second advanced warning signs where two or more signs are used. This applies to all approaches to any work zone. When this item is used, item 102-60 (2102-60) must be used.

Notes

Included for the purpose of providing advanced warning of a lane closure. (Not intended for lane shifts.) Estimate the number needed for each Traffic Control Plan phase times the phase duration.

Related Items

Required

Recommended

Design  SHTabQuant  COMP 700-050-03

Construction  700-050-51

Design  Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction  Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other Standards  Index No. 600

Specifications

Prep & Doc Manual Chapter(s)  7, 13
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Item</th>
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<th>PlanQuantity</th>
<th>Notes</th>
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<tbody>
<tr>
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<td>HIGH INTENSITY FLASHING LIGHTS, TEMP, TYPE B</td>
<td>ED</td>
<td>Each</td>
<td></td>
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</tr>
</tbody>
</table>

**Notes**

**Details**

Class A, B, D, or E RPMs used to supplement pavement markings, as shown in Index 600.

**Related Items**

Required Recommended

**Forms**

Design Construction

Refer to Comp Book

**Documentation**

Design Construction

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter Other

Index No. 600, 17352

**Specifications**

Prep & Doc Manual Chapter(s) 7, 13

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>PlanQuantity</th>
<th>Notes</th>
</tr>
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<tbody>
<tr>
<td>0102</td>
<td>REFLECTIVE PAVEMENT MARKER,TEMPORARY</td>
<td>EA</td>
<td>Each</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Notes**

Roadway Design Bulletin 08-01, dated 1-14-08: Continue to use steady burn lights on channelizing devices.

These lights are placed on Barrier Wall (Temp), excluding low profile. The standard
spacing will be:
50' on centers for transitions, 100' on centers for curves, 200' on centers tangents
(15 meters on centers for transitions, 30 meters on centers for curves, 60 meters on
centers for tangent);
Curves that are flat enough to maintain a normal 2% cross slope shall have spacing equal
to that of a tangent.
QPL- Temporary barrier wall mount lights shall conform to the requirements of the pre-
approved alternatives for temporary concrete or water filled barrier wall listed on the
Department's Qualified Products List (QPL).

### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td></td>
<td>COMP 700-050-03</td>
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<td></td>
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<tr>
<td>Construction</td>
<td>700-050-51</td>
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<thead>
<tr>
<th>Documentation</th>
<th>Required</th>
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<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
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<tr>
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<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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### Required Recommended

<table>
<thead>
<tr>
<th>Standards</th>
<th>see detail</th>
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</table>

**Prep & Doc Manual Chapter(s)**

### TRNS^PORT Category (DRAFT FIELD):

- **0200** Roadway

### Status

**Struct.** 102- 79- TYPE C STEADY BURN LIGHT, TEMPORARY, BARRIER WALL MOUNT

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Item</th>
<th>Description</th>
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<td>0102 79</td>
<td>LIGHTS,BARRIER WALL MOUNT,TEMP,TYPE C,STEADY BURN</td>
<td>ED</td>
<td>1/1/2007</td>
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**102- 81- 2** TEMPORARY CRASH CUSHION -GATING

### Notes

Formerly known as "Impact Attenuator Modules"
Roadway Design permission needed before "sand barrels" may be used; requires special design
QPL- Temporary Gating Crash Cushions shall conform to the requirements of the pre-
approved alternatives listed on the Department's Qualified Products List (QPL), unless
otherwise called for in the plans.

### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
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<tr>
<td>Forms</td>
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<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td></td>
<td>COMP 700-050-03</td>
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<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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<tr>
<th>Documentation</th>
<th>Required</th>
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<tr>
<td>Design</td>
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<tr>
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<td>Record final quantity on the tabulation sheet (plans) or computation form</td>
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Details and Structure: Items 000 to 199
Standards  Index 417, see detail
Specifications

Notes: Contact Cheryl Adams prior to use. Project specific conditions must be reviewed.

**The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.**

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<tr>
<th>Unit</th>
<th>LO</th>
<th>Accuracy</th>
<th>Location</th>
<th>PlanQuantity?</th>
<th>no</th>
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</thead>
</table>

**Details**
Formerly known as "Impact Attenuators"
Payment will be made based on each location of the crash cushion/attenuator.
Redirective cushions selected by contractor, subject to Design Standards. Restricted options to be detailed in plans and documented in project file.
QPL- Temporary Redirective Crash Cushions shall conform to the requirements of the pre-approved alternatives listed on the Department's Qualified Products List (QPL), unless otherwise called for in the plans.

**Related Items**

<table>
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<tr>
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<tbody>
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<td>Design</td>
<td>SHTabQuant</td>
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</table>

**Documentation**
Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Construction**
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**
PPM Chapter
Other
Standards  See detail; Index No. 413, 415, 434, 432, 433, 435, 438, 439, 440, 441, 481, 493, 495, 497, 498
Specifications

**Prep & Doc Manual Chapter(s)**  7, 13

**Status**

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**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
### Basis of Estimates

**Topic No. 600-000-002**  
**Basis of Estimates**  
**2009 Edition**  
**October 6, 2008**

<table>
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<th>Description</th>
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<td>CRASH CUSHION/IMPACT ATTENUATOR, TEMPORARY, REDIRECTIVE OPTION</td>
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#### 102- 94- AB  GLARE SCREEN

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<th>Notes</th>
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<tr>
<td>LF; M1</td>
<td>Linear Foot; 10th of a Meter</td>
<td>no</td>
<td>See barrier wall detail for measurement. to be used with Temporary Barrier Wall (Concrete)</td>
</tr>
</tbody>
</table>

**Related Items**

**Required** 102- 71-xab  
**Recommended**

**Forms**

**Design** SHTabQuant  
**Construction** 700-050-51

**Documentation**

**Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.  
**Construction** Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter  
Other

**Specifications**

**Prep & Doc Manual Chapter(s)** SHTabQuant COMP 700-050-03

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

**Struct.** 102- 94- AB  
**GLARE SCREEN**  
**LF**

A = Operation  
Blank (Furnish and Install)  
1 (Relocate)  
B = Wall Material  
1 (Concrete)

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0102 94 1</td>
<td>GLARE SCREEN, TEMPORARY, F&amp;I, WALL MATERIAL-CONCRETE</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$12.00</td>
</tr>
<tr>
<td>0102 94 11</td>
<td>GLARE SCREEN, TEMPORARY, RELOCATE, WALL MATERIAL-CONCRETE</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$10.00</td>
</tr>
</tbody>
</table>

#### 102- 98- A  BARRICADE TYPE III- TO REMAIN

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA</td>
<td>Each</td>
<td>no</td>
<td></td>
</tr>
</tbody>
</table>

**Details**

**Related Items**

**Required**

**Recommended**

**Forms**

**Design** SHTabQuant  
**Construction** 700-050-03
Standards Index No. 600
Specifications

Notes

Related Items

References

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Details

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0102 98 2</td>
<td>BARRICADE TYPE III - TO REMAIN, 6'</td>
<td>EA</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$83.60</td>
</tr>
</tbody>
</table>

102- 99- CHANGEABLE VARIABLE MESSAGE SIGN- TEMPORARY

Notes

Details

Required

Recommended

Forms

Design

Construction

Documentation

Design

Construction

Specifications

PPM Chapter

Other

Standards

Index No. 600

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Details and Structure: Items 000 to 199
Struct.  102-99- CHANGEABLE VARIABLE MESSAGE SIGN-TEMPORARY

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0102</td>
<td>CHANGEABLE-VARIABLE MESSAGE SIGN, TEMPORARY</td>
<td>ED</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$18.96</td>
</tr>
</tbody>
</table>

102-104- A  TEMPORARY TRAFFIC CONTROL SIGNAL

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED</td>
<td>Each Day</td>
<td>no</td>
</tr>
</tbody>
</table>

Details

Estimate based on the number of completed installations (each signalized location) in operation on the project.

Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>COMP 700-050-03</td>
</tr>
</tbody>
</table>

Documentation

<table>
<thead>
<tr>
<th>Design</th>
<th>Construction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
<td></td>
</tr>
<tr>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
<td></td>
</tr>
</tbody>
</table>

References

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Index No. 606</td>
<td></td>
</tr>
</tbody>
</table>

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct.  102-104- A  TEMPORARY TRAFFIC CONTROL SIGNAL  ED

A = Type
1 (Portable)
2 (Fixed)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0102104 1</td>
<td>TEMPORARY TRAFFIC CONTROL, PORTABLE SIGNAL</td>
<td>ED</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$74.32</td>
</tr>
<tr>
<td>0102104 2</td>
<td>TEMPORARY TRAFFIC CONTROL, FIXED SIGNAL</td>
<td>ED</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$12.51</td>
</tr>
</tbody>
</table>

102-106- A  BARRIER WALL CONCRETE (QUICK CHANGE MOVABLE)

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>LF; M1; EA</td>
<td>Linear Foot; 10th of a Meter; Each</td>
<td>no</td>
</tr>
</tbody>
</table>
Notes
Item must be coordinated with Roadway Design prior to opening.

Details
For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items
<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
</tbody>
</table>

Documentation
| Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. |
| Construction | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

References
PPM Chapter
Other Standards
Index No. 600
Specifications
Plan Detail and/or Tech Spec Required
Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway
Status Inactive Structure
Struct. 102-106- A BARRIER WALL CONCRETE (QUICK CHANGE MOVABLE)
A = Operation
1 (Furnish & Install) LF
2 (Lateral Relocation) EA
3 (Phase Relocation) LF

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>DA</td>
<td>Day</td>
<td>no</td>
</tr>
</tbody>
</table>

102-107- TEMPORARY TRAFFIC DETECTION, INTERSECTION

Notes
Details
Identify intersections where required. Estimate number of intersections times number of contract days. Do not include "new" intersections. Payment will be for number of days Temp Traffic Detection Technology is used and authorized by Engineer.

Related Items
<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
</tbody>
</table>

Documentation
| Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. |
| Construction | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

References
PPM Chapter
Other Standards
SHTabQuant COMP 700-050-03 Refer to Comp Book

Details and Structure: Items 000 to 199
Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. 102-107- TEMPORARY TRAFFIC DETECTION, INTERSECTION DA

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0102107</td>
<td>TEMPORARY TRAFFIC DETECTION, INTERSECT</td>
<td>DA</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$12.29</td>
</tr>
</tbody>
</table>

102-150- 1 PORTABLE REGULATORY SIGN

Unit ED Accuracy Each Day PlanQuantity? no

Notes

This device is part of the Motorist Awareness System (MAS). Design should work with Construction to determine the estimated days for each component of the motorist awareness system to be included in the contract.

Portable Regulatory Sign (PRS): The purpose of this device is to highlight the regulatory speed for the work zone. A PRS is a trailer that has the regulatory sign mounted with flashing lights on each side of the sign. The lights are used to draw the driver's attention to the regulatory speed.

Related Items

Required Recommended
Forms Design SHTabQuant COMP 700-050-03
Construction 700-050-51

Documentation

Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter
Other
Standards Index No. 670.
Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. 102-150- 1 PORTABLE REGULATORY SIGN ED

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0102150</td>
<td>PORTABLE REGULATORY, SIGN</td>
<td>ED</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$14.35</td>
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</tbody>
</table>

102-150- 2 RADAR SPEED DISPLAY UNIT

Details and Structure: Items 000 to 199
### Radar Speed Display Unit (RSDU)

The purpose of this device is to display the motorist's work zone speed. A radar speed display unit is a portable trailer that displays the speed of approaching motorists on a LED display panel. The radar mounted on the unit detects the speed. A regulatory sign with the posted speed is mounted above the LED display panel. The unit is fitted with a device which counts the number of vehicles passing the Radar Speed Display Unit. The counter device is capable of: digital readout of the total number of vehicles passing the radar speed display unit, and digital readout of the number of vehicles exceeding the speed limit shown on the radar speed display unit. The device can be set that only speeds greater than the work zone speed are displayed.

### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>700-050-51</td>
<td>COMP 700-050-03</td>
</tr>
</tbody>
</table>

### Notes

This device is part of the Motorist Awareness System. Refer to item 102-150-1 for additional detail information.

Use of removable work zone pavement markings shall be as defined by 102-10 of the specifications.

FOR ITEM 102-911-3 (2102-911-3): Used for Stop bars, turn arrows, etc.

### The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>01021502</td>
<td>RADAR SPEED DISPLAY UNIT</td>
<td>ED</td>
<td></td>
<td>1/1/2007</td>
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<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>102-911-3</td>
<td>PAVEMENT MARKING REMOVABLE- WHITE/BLACK</td>
<td>LF; M1; SF; M2</td>
<td>Linear Foot; 10th of a Meter; Square Foot; Square Meter</td>
<td>no</td>
</tr>
</tbody>
</table>

Use of removable work zone pavement markings shall be as defined by 102-10 of the specifications.

FOR ITEM 102-911-3 (2102-911-3): Used for Stop bars, turn arrows, etc.
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAVEMENT MARKING REMOVABLE, WHITE-BLACK, SKIP</td>
<td>LF</td>
<td>1/1/2007</td>
<td>$1.49</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

102-912- A  PAVEMENT MARKING REMOVABLE- YELLOW  LF; SF

Unit LF; M1; SF; M2
Accuracy Linear Foot; 10th of a Meter; Square Foot; Square Meter
PlanQuantity? no

Notes
Use of removable work zone pavement markings shall be as defined by 102-10 of the specifications.

Details and Structure: Items 000 to 199

Details and Structure: Items 000 to 199
Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0102911 2</td>
<td>PAVEMENT MARKING REMOVABLE, WHITE-BLACK, SOLID</td>
<td>LF</td>
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<tr>
<td>0102911 3</td>
<td>PAVEMENT MARKING REMOVABLE, WHITE-BLACK, OTHER</td>
<td>SF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$4.54</td>
</tr>
<tr>
<td>0102912 1</td>
<td>PAVT MARKING REMOVABLE, YELLOW, SKIP</td>
<td>LF</td>
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<td>1/1/2007</td>
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<td>$1.94</td>
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<tr>
<td>0102912 2</td>
<td>PAVEMENT MARKING REMOVABLE, YELLOW, SOLID</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
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<td>$1.95</td>
</tr>
<tr>
<td>0102912 3</td>
<td>PAVEMENT MARKING REMOVABLE, YELLOW, OTHER</td>
<td>SF</td>
<td></td>
<td>1/1/2007</td>
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<td>$2.88</td>
</tr>
</tbody>
</table>

### 103- 1- TEMPORARY WORK STRUCTURE

**Unit**  LS/LS
**Accuracy**  Lump Sum
**PlanQuantity?**  yes

**Notes**

Monitor: Robert Robertson, State Structures Design Engineer

Coordinate with the State Structures Design Office on the use of this item.

The plans shall include drawings depicting the construction methods assumed in the preparation of the plans. The designer shall determine if a temporary structure (temporary bridges, platforms, etc.) is needed to furnish the contractor with access to the site to enable the bridge to be built. When a temporary structure is required, the anticipated structure type will be shown in the plans.

Temporary Structures will be paid separately only if they are required for access or to comply with permit restrictions. If access is available by including, but not limited to, barges, mats, or existing ground, no temporary structure is required.

State Structures Office must request unblock pay item structure.

**Related Items**

**Required**  SHTabQuantLS
**Recommended**  COMP 700-050-05

**Forms**

- **Design**: Refer to Comp Book
- **Construction**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

**Construction**

Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**

- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**

**PPM Chapter(s)**  6, 7, 13

**TRNS*PORT Category (DRAFT FIELD):**  0200  Roadway

**Status**

Details and Structure: Items 000 to 199
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>Accuracy</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0103</td>
<td>TEMPORARY WORK STRUCTURE LS/LS</td>
<td>LS</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$18,869.00</td>
</tr>
</tbody>
</table>

**104-1- ARTIFICIAL COVERINGS FOR EROSION CONTROL**

**Unit** SY; M2  
**Accuracy** Square Yard; Square Meter

**Notes**
This item may be used for two purposes. Estimate and/or calculate according to the following information. The total quantity is the sum used for the two purposes below. The quantity and purpose of each should be noted in a pay item footnote.

**FOR PAUSES IN CONSTRUCTION:** Used for pauses in construction due to inclement weather or other circumstances. For this purpose, artificial coverings may be composed of natural or synthetic fiber mats, plastic sheeting or netting. Estimate 1% of the total permanent grassing area, where the total grassing area is defined as the sum of the seeding + seeding and mulching + sodding areas. Coverings used for this purpose are typically removed when construction resumes.

**FOR EROSION CONTROL:** Used for erosion control that facilitates plant growth, while permanent grass is established. Biodegradable erosion control blankets are installed over a seeded area and may be used on fill slopes and in ditches, and left in place to biodegrade. Show in plans (plan view or tabulation of quantities) the locations where erosion control blankets are to be used. Calculate the quantity in square yards (square meters).

**Related Items**

<table>
<thead>
<tr>
<th>Forms</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-01</td>
</tr>
<tr>
<td>Construction</td>
<td>locate in plans. summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
<td>record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
</tbody>
</table>

**Documentation**

**PPM Chapter**

**Other**

**Standards**

**Specifications**

**Prep & Doc Manual Chapter(s)** 6, 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

**Struct. 104-1- ARTIFICIAL COVERINGS FOR EROSION CONTROL SY**

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
## Item 0104-4: Mowing

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC; HA</td>
<td>10th of an Acre; 10th of a Hectare</td>
<td>no</td>
</tr>
</tbody>
</table>

### Notes

This item is included for routine maintenance of existing, permanent, and temporary grassing until the project is completed. Coordinate the use of this item with Sections 570 and 580. DO NOT use this item when payment for mowing is to be made under Section 570. Estimated Design Quantity: Use total grassed area, plus any other undisturbed areas within the project limits that need to be mowed during the life of the contract. Obtain the mowing cycle from the local Maintenance Office; multiply the area by the number of mowing cycles to be performed during the life of the contract. Convert units to acres (hectares), as necessary. Detail calculations in the comp book.

### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>570-1-A, 580-1-A</td>
<td></td>
</tr>
</tbody>
</table>

### Forms

**Design**: SHTabQuant

**Construction**: Refer to Comp Book

### Documentation

**Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References

**PPM Chapter**

**Other**

**Standards**

**Specifications**

**Prep & Doc Manual Chapter(s)**: 6, 7, 13

---

### TRNS*PORT Category (DRAFT FIELD):

| Struct. | 104-4 | Mowing | AC |

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0104</td>
<td>MOWING</td>
<td>AC</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$511.95</td>
</tr>
</tbody>
</table>

---

## Item 0104-5: Sandbagging

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>CY; M3</td>
<td>Cubic Yard; Cubic Meter</td>
<td>no</td>
</tr>
</tbody>
</table>

### Notes

Included for the purpose of controlling erosion and siltation. Use 12"x24"x6" bags (0.3 x 0.6 x 0.15 meter bags). Refer to index for applications and estimated quantity.

### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>COMP 700-050-04</td>
</tr>
</tbody>
</table>

### Forms

**Design**: SHTabQuant
### 104-5- SANDBAGGING CY

#### Notes
- Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- Record final quantity on the tabulation sheet (plans) or computation form (comp book).

#### Related Items
- **Required**
  - 104-5, 575-5 (2104-5, 2575-5)

#### Forms
- **Design**
  - SHTabQuant
- **Construction**
  - Refer to Comp Book

#### Documentation
- **Design**
  - Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**
  - Record final quantity on the tabulation sheet (plans) or computation form (comp book).

#### References
- **PPM Chapter**
- **Other**
- **Standards**
  - Index No. 100, 102, 201
- **Specifications**

#### TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
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<td>CY</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$202.72</td>
</tr>
</tbody>
</table>

### 104-6- TEMPORARY SLOPE DRAIN

#### Notes
- Base estimate as described by Roadway Standard Index No. 100, locations and lengths are required.

#### Related Items
- **Recommended**
  - 104-5, 575-5 (2104-5, 2575-5)

#### Forms
- **Design**
  - SHTabQuant
- **Construction**
  - COMP 700-050-03

#### Documentation
- **Design**
  - Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**
  - Record final quantity on the tabulation sheet (plans) or computation form (comp book).

#### References
- **PPM Chapter**
- **Other**
- **Standards**
  - Index No. 100
- **Specifications**

#### TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

<table>
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<th>Item</th>
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<th>TSP/Detail</th>
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<th>Obsolete Date</th>
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<td>LF; M1</td>
<td>Linear Foot; 10th of a Meter</td>
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The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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### 104- 7- SEDIMENT BASIN

**Notes**

- **Unit**: EA
- **Accuracy**: Each
- **PlanQuantity?**: no

**Details**

Use when separate items for temporary erosion control features are included in the contract. Includes cost for riprap, fencing, baffles, piping, and earthwork, as indicated on Index. Refer to index for estimated quantity.

**Related Items**

- **Required**: 104- 9- (2104- 9-)
- **Recommended**: 104- 7- (2104- 7-)

**Forms**

- **Design**: SHTabQuant
- **Construction**: Refer to Comp Book

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- PPM Chapter
- Other
- Standards: Index No. 101, 241
- Specifications
- Prep & Doc Manual Chapter(s): 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

**Struct.**: 104- 7- SEDIMENT BASIN

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
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<tr>
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<td></td>
<td>$2,286.18</td>
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</table>

### 104- 9- SEDIMENT BASIN CLEANOUT

**Notes**

- **Unit**: CO; EA
- **Accuracy**: Per Clean Out; Each
- **PlanQuantity?**: no

**Details**

Estimate one cleanout per sediment basin, Item 104- 7 (2104- 7), on project.

**Related Items**

- **Required**: 104- 8- (2104- 8-)
- **Recommended**: 104- 7- (2104- 7-)

**Forms**

- **Design**: SHTabQuant
- **Construction**: Refer to Comp Book

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- PPM Chapter
- Other
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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</tbody>
</table>

### 104-10-2 SYNTHETIC BALES

**Unit**: LF; M1  
**Accuracy**: Linear Foot; 10th of a Meter  
**Plan Quantity?**: no

**Notes**

Effective January 2007; replaces 104-10-1 Baled Hay or Straw.  
**NOTE: UNIT OF MEASURE CHANGED TO LINEAR FOOT**

**Details**

Consists of synthetic bales to protect against downstream accumulations of silt. Dams shall be constructed in accordance with the details shown in the plans or Design Standards. Standard lengths for common inlets will be shown on the Design Standards. Note that synthetic bales may be cleaned or replaced as necessary. Do not estimate for replacement cycles; payment includes maintenance of the erosion control device (cleaning and/or replacement), until permanent erosion control measures are in place. All bales must be listed on the QPL, according to specification.

**Related Items**

**Required**

- Design
  - SHTabQuant
- Construction
  - Refer to Comp Book

**Recommended**

- Design
  - Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- Construction
  - Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- PPM Chapter
- Other
- Standards
- Specifications

**Prep & Doc Manual Chapter(s)**

---

**TRNS*PORT Category (DRAFT FIELD):** 0200  
**Roadway**

**Status**

**Struct.** 104-10-2  
**SYNTHETIC BALES**  
**LF**

**Notes**

---

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*

<table>
<thead>
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<th>Item</th>
<th>Description</th>
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<th>Obsolete Date</th>
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<tr>
<td>0104 10 2</td>
<td>SYNTHETIC BALES</td>
<td>LF</td>
<td>1/1/2007</td>
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<td></td>
<td>$10.54</td>
</tr>
</tbody>
</table>
104-11- A  FLOATING TURBIDITY BARRIER

Unit  LF; M1  Accuracy  Linear Foot; 10th of a Meter  PlanQuantity?  no

Notes

Details  To be included in areas where dredging, filling or other construction activities may cause turbidity in water. Refer to Design Standard Index 103. Used when turbidity standards may be exceeded, as shown in the plans and permit.

Per the specifications (104-9), each location is paid per length, regardless of whether the barrier is new, used, or relocated from a previous location. The designer should estimate based on the tabulated length at each location.

Related Items

Required  Recommended
Forms  Design  SHTabQuant  COMP 700-050-03
Construction

Documentation  Design  Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction  Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References  PPM Chapter
Other
Standards  Index No. 103
Specifications

Prep & Doc Manual Chapter(s)  6, 7, 13

Status

Struct.  104-11- A  FLOATING TURBIDITY BARRIER  LF

A = Blank (Standard)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Description</th>
<th>Unit</th>
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<tr>
<td>0104 11</td>
<td>FLOATING TURBIDITY BARRIER</td>
<td>LF</td>
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<td>1/1/2007</td>
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</table>

104-12- A  STAKED TURBIDITY BARRIER

Unit  LF; M1  Accuracy  Linear Foot; 10th of a Meter  PlanQuantity?  no

Notes

Details  To be included in areas where continuous construction activities change the natural contour and drainage runoff. Should be installed across ditch lines and other temporary locations where construction may interfere with natural runoff. Refer to Design Standard Index 106.

Related Items

Required  Recommended
Forms  Design  SHTabQuant  COMP 700-050-03
Construction

Documentation  Design  Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<td>LF</td>
<td>1/1/2007</td>
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<td></td>
<td>$4.73</td>
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</tbody>
</table>

**104- 13- A STAKED SILT FENCE**

**Notes**

Used for erosion control in areas where construction activities may cause silt runoff. Type III Silt Fence, as detailed in Index No. 102, should be used in most locations. Type IV fence has greater strength and height and should be used where a large sediment load is anticipated (steep fill slopes, long fill slopes, or a combination of both likely to produce a large sediment load).

Each type of silt fence will have an estimated service life of 12 months. The quantity will be developed by estimating the time (in months) the fence will be in place at each location and dividing by 12 (rounding up to the nearest whole) to determine the number of replacements. The total length of fence at each location is determined by multiplying the length of fence at each location by the number of replacements.
## STAKED SILT FENCE

**A = Type**  
1 (Type III)  
2 (Type IV)

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
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<td>1/1/2007</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>0104 13 2</td>
<td>STAKED SILT FENCE, TYPE IV LF</td>
<td>1/1/2007</td>
<td>$1.72</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Details

Should be constructed at points of egress from unstabilized areas of the project to minimize offsite tracking of sediment. To minimize tracking from the roadway portion of the project, use one device per mile (one device per 2 kilometers) with a minimum of two per project. Include an additional device for each storm water pond or mitigation site that is not adjacent to the roadway right-of-way. RRR projects should be handled on a case-by-case basis.

Payment includes excavation, grading, pipe, filter fabric, aggregate, etc., as indicated in Design Standard 106. Separate payment is made for hay bales and silt fence.

### Related Items

**Required**  
104-10-1, 104-13-xxa

**Recommended**  
SHTabQuant

**Forms**

**Design**  
COMP 700-050-03

**Construction**  
Refer to Comp Book

**Documentation**

**Design**  
Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Construction**  
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References

PPM Chapter

Other Standards  
Index No. 106

Specifications

Prep & Doc Manual Chapter(s)

---

## SOIL TRACKING PREVENTION DEVICE

**Unit** EA  
**Accuracy** Each  
**PlanQuantity?** no

### Notes

Should be constructed at points of egress from unstabilized areas of the project to minimize offsite tracking of sediment. To minimize tracking from the roadway portion of the project, use one device per mile (one device per 2 kilometers) with a minimum of two per project. Include an additional device for each storm water pond or mitigation site that is not adjacent to the roadway right-of-way. RRR projects should be handled on a case-by-case basis.

Payment includes excavation, grading, pipe, filter fabric, aggregate, etc., as indicated in Design Standard 106. Separate payment is made for hay bales and silt fence.

### Related Items

**Required**  
104-10-1, 104-13-xxa

**Recommended**  
SHTabQuant

**Forms**

**Design**  
COMP 700-050-03

**Construction**  
Refer to Comp Book

**Documentation**

**Design**  
Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Construction**  
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter

Other Standards  
Index No. 106

Specifications

Prep & Doc Manual Chapter(s)
**104-16- ROCK BAG**

<table>
<thead>
<tr>
<th>Unit</th>
<th>EA</th>
<th>Accuracy</th>
<th>Each</th>
<th>PlanQuantity?</th>
<th>no</th>
</tr>
</thead>
</table>

**Notes**

Include for the purpose of controlling siltation at curb and gutter inlets as shown in the Design Standards. Bags are to be 12"x12"x4" (0.3 m x 0.3 m x 0.1 m). Estimate 20 bags for each curb inlet.

**Details**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
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</tr>
</thead>
</table>

**Related Items**

- **Design**  
  SHTabQuant  
  COMP 700-050-03

- **Construction**  
  Refer to Comp Book

**Documentation**

- **Design**  
  Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

- **Construction**  
  Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- **PPM Chapter**
- **Other**
  Index No. 102
- **Specifications**
- **Prep & Doc Manual Chapter(s)**  
  6, 7, 13

**TRNS*PORT Category (DRAFT FIELD):**  
0200 Roadway

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*

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**104-17- SAND FENCE**

<table>
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<tr>
<th>Unit</th>
<th>LF; M1</th>
<th>Accuracy</th>
<th>Linear Foot; 10th of a Meter</th>
<th>PlanQuantity?</th>
<th>no</th>
</tr>
</thead>
</table>

**Notes**

Temporary fence for sand locations, used for erosion control purposes. Tech Specs and/or plan details to include: fence size, slat size, post and fence materials, construction, installation, maintenance, removal, measurement, and payment. Spec to include option to allow fence to remain in place, at the discretion of the Engineer.

**Details**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
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</thead>
</table>

**Related Items**

- **Design**  
  SHTabQuant  
  COMP 700-050-03

- **Construction**  
  Refer to Comp Book

**Documentation**

- **Design**  
  Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

- **Construction**  
  Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- **PPM Chapter**
- **Other**
- **Standards**

---

Details and Structure: Items 000 to 199
Specifications
Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

<table>
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<tr>
<th>Item</th>
<th>Description</th>
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The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### Notes

**Struct. 104-17- SAND FENCE LF**

**Notes**

The designer should contact the District Construction Office to determine if this item should be used on a project. Consists of providing, furnishing and maintaining an Engineer's field office for exclusive use by the Department.

Type B Fencing shall be used as detailed on Roadway and Traffic Design Standards, Index No. 452 for enclosing the field office. Payment for the fence shall be included in the bid price of the field office.

The field office shall be a building or mobile trailer erected at locations selected by the engineer. The field office shall be paid for at the contract unit price per day. per the specifications, "Provide a Field Office for Department use beginning 10 working days before contract time begins, and remain for 30 days after final acceptance, unless the Department request removal earlier. Payment will be made for each day the field office is available for use by Department personnel."

**Related Items**

<table>
<thead>
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<th>Recommended</th>
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<tbody>
<tr>
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<td>700-050-51</td>
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### Details

**Construction**

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References

**PPM Chapter**

Other Standards

Index No. 802

**Specifications**

Prep & Doc Manual Chapter(s) 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

**Struct. 109-71- A FIELD OFFICE DA**

A = Size
1 (300 Sq ft)
2 (600 Sq ft)
### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
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<td>$91.21</td>
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</table>

#### 110- 1- 1 CLEARING AND GRUBBING

**Unit**: LS/AC; LS/HA  
**Accuracy**: Lump Sum (1/100th of an Acre); Lump Sum (1/100th of a Hectare)

**Notes**

Consists of complete removal and disposal of all vegetation, debris, drainage structures, flexible pavement, buildings or any other obstructions in all areas where excavation is to be done, or where embankments or structures will be constructed. This includes roadway area, ditch area, borrow and material pits, and areas where culverts or pipe lines will be constructed. Code the number of acres (hectares). Locate or define the scope of work involved on the contract plans. (Removal of concrete pavement, non-asphalt, to be paid under 110- 4- (2110- 4-))

**Related Items**

**Required**

- **Design**: SBEHWK; SBEarthwork  
- **Construction**: COMP 700-050-05

**Recommended**

- **Design**: Refer to Comp Book

**Documentation**

**Design**: Use a quantity of 1, but calculations and documentation must be to the second unit of measure. Locate or define the scope of work involved on the plans.

**Construction**: Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**

- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**
- **Prep & Doc Manual Chapter(s)**: 7, 13

**TRNS*PORT Category (DRAFT FIELD)**: 0200 Roadway

**Status**

**Struct.**: 110- 1- 1 CLEARING AND GRUBBING LS/AC

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<th>Item</th>
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</table>

**Details and Structure**: Items 000 to 199
CLEARING AND GRUBBING (PUSH BUTTON CONTRACT)

Unit: AC; HA
Accuracy: 10th of an Acre; 10th of a Hectare

Notes
Details
FOR PUSH BUTTON CONTRACTS ONLY
Consists of complete removal and disposal of all vegetation, debris, drainage structures, flexible pavement, buildings or any other obstructions identified in the plans or specifications. Locate or define the scope of work involved. (Removal of concrete pavement, non-asphalt, to be paid under 110- 4- (2110- 4-))

Related Items
Required
Forms
Design
SBEHWK; SBEarthwork
Construction
Refer to Comp Book

Documented
Design
Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References
PPM Chapter
Other
Standards
Specifications
Prep & Doc Manual Chapter(s) 7, 13

Status
Struct. 110- 2- 1 CLEARING AND GRUBBING (PUSH BUTTON CONTRACT)

Notes
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0110 2 1</td>
<td>CLEARING &amp; GRUBBING (PUSH BUTTON CONTRACT)</td>
<td>AC</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$12,540.00</td>
</tr>
</tbody>
</table>

REMOVAL OF EXISTING STRUCTURE

Unit: LS/SF; LS/M2
Accuracy: Lump Sum (Square Foot); Lump Sum (Square Meter)

Notes
Details
to be used for the removal of existing bridge structures and box culverts. Includes all work of removal (complete and/or partial), and disposal of the designated structures. Code the number of square feet (square meters), out-to-out of coping from begin bridge to end bridge.

If bridge debris is to be delivered to another agency, refer to specifications for delivery location. Delivery costs are included in the price for Removal of Existing Structure. Add pay item note in plans that address bridges to be completely removed and bridges to be partially removed. Tabulate bridges by bridge number and deck area to be removed. Quantities to be based on out-to-out of coping from begin bridge to end bridge or from coping line to saw cut line from begin bridge to end bridge as applicable. Do not include rip-rap, fill slope area in removal quantity. Cover items to be removed in pay item note.
Insert existing bridge plans into plan set. Show existing piling on Foundation Layout Sheet that requires complete removal (conflict with proposed foundations, or conflicts with future channel dredging per permit requirements, etc.).

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td>SHTabQuantLS</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
</tbody>
</table>

**Documentation**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>Use a quantity of 1, but calculations and documentation must be to the second unit of measure. Locate or define the scope of work involved on the plans.</td>
</tr>
</tbody>
</table>

**References**

PPM Chapter
Other
Specifications

**Prep & Doc Manual Chapter(s)** 6, 13

---

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

Struct.  110- 3-  **REMOVAL OF EXISTING STRUCTURE**  LS/SF

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0110 3</td>
<td>REMOVAL OF EXISTING STRUCTURE</td>
<td>LS</td>
<td>1/1/2007</td>
<td></td>
<td>$40.83</td>
<td></td>
</tr>
</tbody>
</table>

**110- 4-  **REMOVAL OF EXISTING CONCRETE PAVEMENT**

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>SY; M2</td>
<td>Square Yard; Square Meter</td>
<td>no</td>
</tr>
</tbody>
</table>

**Notes**

Consists of removing and disposing of existing concrete pavement, concrete sidewalks, slope pavement, ditch pavement and curb and gutter, where required because of construction operations. Specifically excludes retaining walls and drainage structures. NOTE: Do not include flexible pavement removal under this item.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
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</table>

**Documentation**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
</tr>
<tr>
<td>Construction</td>
<td></td>
</tr>
</tbody>
</table>

**References**

PPM Chapter
Other
Specifications

**Prep & Doc Manual Chapter(s)** 7, 13
**110- 4-**

**REMOVAL OF EXISTING CONCRETE PAVEMENT**  
SY

---

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0110</td>
<td>REMOVAL OF EXISTING CONCRETE PAVEMENT</td>
<td>SY</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$13.00</td>
</tr>
</tbody>
</table>

---

**110- 5-**

**PLUGGING WATER WELL- ARTESIAN**

**Unit**  
EA

**Accuracy**  
Each

**PlanQuantity?**  
no

---

**Notes**

Artesian is defined in specifications as "an artificial hole in the ground from which water supplies may be obtained and which penetrates any water bearing rock, the water in which is raised to the surface by natural flow…"

---

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
</tbody>
</table>

---

**Documentation**

**Design**  
Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Construction**  
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

---

**References**

PPM Chapter  
Other  
Standards  
Specifications  
Prep & Doc Manual Chapter(s) 7, 13

---

**110- 6-**

**PLUGGING WATER WELL- NON-ARTESIAN**

**Unit**  
EA

**Accuracy**  
Each

**PlanQuantity?**  
no

---

**Notes**

Non-Artesian is defined in the specifications as "a well in which the source of water is an unconfined aquifer. The water… does not rise above the source bed."

---

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
</table>
**110-  6-**

**PLUGGING WATER WELL- NON-ARTESIAN**

**EA**

---

**Item:** 0110 6  
**Description:** PLUGGING WATER WELLS, NON-ARTESIAN  
**Unit:** EA  
**TSP/Detail:**  
**Valid Date:** 1/1/2007  
**Obsolete Date:**  
**LRE Ref Price:** $2,567.76

---

**110-  7- A**  
**MAILBOX**

**Unit:** EA  
**Accuracy:** Each  
**PlanQuantity?** no

---

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

---

**Details**

Used for replacement of residential or business mailboxes that must be removed during construction operations. Refer to Index 532 for details.

---

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td>Design</td>
</tr>
<tr>
<td>SHTabQuant</td>
<td>COMP 700-050-03</td>
</tr>
<tr>
<td>Doc.</td>
<td>Design</td>
</tr>
<tr>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
<td></td>
</tr>
<tr>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
<td></td>
</tr>
</tbody>
</table>

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**References**

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Design</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other</td>
<td></td>
</tr>
<tr>
<td>Standards</td>
<td>Index No. 532</td>
</tr>
<tr>
<td>Specifications</td>
<td></td>
</tr>
</tbody>
</table>

---

**TRNS*PORT Category (DRAFT FIELD):** 0200  
**Roadway**
Notes
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>011071</td>
<td>MAILBOX, F&amp;I SINGLE</td>
<td>EA</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$136.42</td>
</tr>
</tbody>
</table>

### 110-8- A  UNDERWATER DEBRIS REMOVAL

**Unit** DA; TN; MT  **Accuracy** Day; Ton; Metric Ton  **PlanQuantity?** no

#### Notes
The specification must describe the item in detail, including its acceptance criteria, method of measurement, and for lump sum items, any secondary units of measure. This item should only be used when the designer is reasonably sure of the number of days which will be required for the task. The daily unit cost for the cranes and barges typically used in this item is relatively high and can quickly lead to large overrun costs if the number of days cannot be accurately estimated. Item 110-3 (2110-3) is a more appropriate item to use when an accurate estimate of days required cannot be made.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

#### Related Items

**Forms**

- **Required**
  - Design: SHTabQuant
  - Construction: 700-050-03

- **Recommended**
  - Design: COMP 700-050-51
  - Construction: 700-050-51

**Documentation**

- **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

- **Construction** Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- PPM Chapter: 2110-8-3
- Other: 2110-8-3
- Standards: 2110-8-3
- Specifications: 2110-8-3

**Prep & Doc Manual Chapter(s):** 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

### Status

**Struct.** 110-8- A  UNDERWATER DEBRIS REMOVAL  DA; TN

A = Method of Measurement
blank (Day) DA
1 (Weight) TN

#### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>01108</td>
<td>UNDERWATER DEBRIS REMOVAL</td>
<td>DA</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$7,291.11</td>
</tr>
</tbody>
</table>

### 110-12- A  HYDRODEMOLITION

Details and Structure: Items 000 to 199
Unit  SY; M2; SF  Accuracy  Square Yard; Square Meter; Square Foot  PlanQuantity?  no

Notes

Details
For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

Required  Recommended

Forms
Design  SHTabQuant  COMP 700-050-01
Construction  Refer to Comp Book

Documentation
Design  Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction  Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References
PPM Chapter  Other
Specifications

Prep & Doc Manual Chapter(s)  6, 7, 13

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0110 12 1</td>
<td>HYDRODEMOLITION, REMOVAL OF DECK SURFACE</td>
<td>SY</td>
<td>T 1/1/2007</td>
<td></td>
<td></td>
<td>$67.41</td>
</tr>
</tbody>
</table>

110- 71- 1  BRIDGE FENDER SYSTEM, REMOVAL & DISPOSAL- REHAB PROJECTS ONLY

Unit  LF; M1  Accuracy  Linear Foot; 10th of a Meter  PlanQuantity?  no

Notes
Details
For use on Fender System Rehab projects only.
For projects with bridge and fender system replacement, payment for removal and disposal of existing fender system is included under Removal Of Existing Structures, item 110-3. Plan Details and/or Tech Spec must address proper disposal of timber, as well as measurement and payment of rehab work. Refer to Section 110 of Specifications.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.
**110- 71- 1**

**BRIDGE FENDER SYSTEM, REMOVAL & DISPOSAL—LF REHAB PROJECTS ONLY**

**Notes**

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

**Forms**
- **Design**: SHTabQuant
- **Construction**: Refer to Comp Book

**Documentation**
- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**
- **PPM Chapter**: Design, Construction

**Prep & Doc Manual Chapter(s)**: 6, 7, 13

**TRNS*PORT Category (DRAFT FIELD):**

**Roadway**

**Status**

**Struct. 110- 71- 1**

**REMOVE EXISTING BULKHEAD**

**Unit**: LF; M1

**Accuracy**: Linear Foot; 10th of a Meter

**PlanQuantity?**: no

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

**Item** | **Description** | **Unit** | **TSP/Detail** | **Valid Date** | **Obsolete Date** | **LRE Ref Price**
--- | --- | --- | --- | --- | --- | ---
0110 71 1 | BRIDGE FENDER SYSTEM, REMOVAL & DISPOSAL | LF | T | 1/1/2007 | | $829.72

**Details**

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.
**Struct. 110-73-** REMOVE EXISTING BULKHEAD LF

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0110</td>
<td>REMOVE EXISTING BULKHEAD</td>
<td>LF</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$51.55</td>
</tr>
</tbody>
</table>

**110-82-** REMOVE & DISPOSE STRUCTURAL TIMBER MB

**Unit** MB; M3  
**Accuracy** 10th of a Thou Board Measure; 10th of a Cubic Meter  
**PlanQuantity?** no

**Details**

one board foot= one foot square by one inch thick; convert to thousand board foot for pay item.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Required**

<table>
<thead>
<tr>
<th>Forms</th>
<th>Design</th>
<th>SHTabQuant</th>
<th>COMP 700-050-04</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>700-050-56</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Documentation**

| Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.  
| Construction | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

**References**

PPM Chapter  
Other  
Standards  
Specifications  
Plan Detail and/or Tech Spec Required  
Prep & Doc Manual Chapter(s) 7, 13

**Struct. 110-82-** REMOVE & DISPOSE STRUCTURAL TIMBER MB

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0110</td>
<td>REMOVE &amp; DISPOSE STRUCTURAL TIMBER</td>
<td>MB</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$3,960.24</td>
</tr>
</tbody>
</table>

**110-84-** TRANSPORT EXISTING MATERIAL FOR REEF ESTABLISHMENT

Details and Structure: Items 000 to 199
### Topic No. 600-000-002

#### Basis of Estimates

**2009 Edition**

**October 6, 2008**

<table>
<thead>
<tr>
<th>Unit</th>
<th>LS/LS</th>
<th>Accuracy</th>
<th>Lump Sum</th>
<th>PlanQuantity?</th>
<th>yes</th>
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</thead>
</table>

#### Notes

**Details**

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td>Design</td>
<td>SHTabQuantLS</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
</tbody>
</table>

| Documentation | Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor. |
|               | Construction | Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances. |

#### References

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Design</th>
<th>Construction</th>
</tr>
</thead>
</table>

#### Notes

**Prep & Doc Manual Chapter(s)** 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Struct.** 110-84- TRANSPORT EXISTING MATERIAL FOR REEF ESTABLISHMENT

**Plan Detail and/or Tech Spec Required**

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Unit</th>
<th>EA</th>
<th>Accuracy</th>
<th>Each</th>
<th>PlanQuantity?</th>
<th>no</th>
</tr>
</thead>
</table>

#### Notes

**Details**

Valid for maintenance use. Detail cleaning requirements in the plans or specifications.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td>Design</td>
<td>CADD 625-000-02/22</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Documentation</th>
<th>Design</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>References</th>
<th>PPM Chapter</th>
</tr>
</thead>
</table>

**Prep & Doc Manual Chapter(s)** 7, 13

---

Details and Structure: Items 000 to 199
### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### DELIVERY OF SALVAGEABLE MATERIAL TO FDOT

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0110 86</td>
<td>DELIVERY OF SALVAGEABLE MATERIAL TO FDOT</td>
<td>LS</td>
<td>T</td>
<td>1/1/2007</td>
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### REGULAR EXCAVATION

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>CY; M3</td>
<td>Cubic Yard; Cubic Meter</td>
<td>yes</td>
</tr>
</tbody>
</table>
Details
Refer to Plans Preparation Manual, Volume 1, Chapter 3 for guidance on Earthwork Items. This item should be used on projects with cross sections to pay for the quantity of excavation on the project.

Related Items
<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SBEHWK; SBEarthwork</td>
</tr>
<tr>
<td>Construction</td>
<td>COMP 700-050-04</td>
</tr>
</tbody>
</table>

Form
Refer to Comp Book

Documentation
Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References
PPM Chapter
Other
Specifications
Index No. 285, 500, 505

Prep & Doc Manual Chapter(s) 6, 13

Details
Refer to Plans Preparation Manual, Volume 1, Chapter 3 for guidance on Earthwork Items.

Notes
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0120</td>
<td>REGULAR EXCAVATION</td>
<td>CY</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$5.09</td>
</tr>
</tbody>
</table>

120- 2- A BORROW EXCAVATION

Notes

Details
Refer to Plans Preparation Manual, Volume 1, Chapter 3 for guidance on Earthwork Items.

TRUCK MEASURE: This item should only be used on projects with limited or no cross sections. The method to determine the quantity of borrow excavation is as follows:

Fill x Fill Adjustment Factor x Truck Adjustment Factor = Borrow Excavation (Truck Measure).

For example, if the fill adjustment is 20%, the fill adjustment factor is 1.2; and if the truck adjustment is 25%, the truck adjustment factor is 1.25

Applied to the above equation, an original fill amount of 253 CY would become:
253 X 1.2 X 1.25 = 380 CY of Borrow, Truck Measure

Note- the adjustments vary based on the type of material. Per the PPM, contact the District Materials of District Construction Office for project specific numbers.

For final quantity, measure the width, height, and length inside the truck bed; calculate the volume by multiplying those three dimensions. Subtract 2% of the result to account for the hoist box and bed fillets.
### Related Items

<table>
<thead>
<tr>
<th>Form</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SBEHWK; SBEarthwork</td>
<td>COMP 700-050-04</td>
</tr>
<tr>
<td>Construction</td>
<td>700-050-54</td>
<td></td>
</tr>
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</table>

### Documentation

<table>
<thead>
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<tr>
<td>Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
</tr>
<tr>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
</tbody>
</table>

### Specifications

<table>
<thead>
<tr>
<th>Standards</th>
<th>Index No. 500, 505</th>
</tr>
</thead>
</table>

### Notes

- **Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.**
- **Record final quantity on the tabulation sheet (plans) or computation form (comp book).**

---

**TRNS*PORT Category (DRAFT FIELD):**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>0120</td>
<td>BORROW EXCAVATION, TRUCK MEASURE</td>
<td>CY</td>
<td>Cubic Yard; Cubic Meter</td>
<td>yes</td>
</tr>
</tbody>
</table>

---

**Details**

- **BORROW EXCAVATION CY**
  - A = Measure Type
  - 2 (Truck Measure)

---

**TRNS*PORT Category (DRAFT FIELD):**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>0120</td>
<td>LATERAL DITCH EXCAVATION</td>
<td>CY</td>
<td>Cubic Yard; Cubic Meter</td>
<td>yes</td>
</tr>
</tbody>
</table>

---

**Details**

- **Consists of excavation on portions of lateral ditches beyond the limits of the roadway ROW. Includes inlet and outlet ditches, ditches parallel to the roadway, and may include channel excavation if Item 120-5 (2120- 5) is not used.**

---

**References**

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Design</th>
<th>Construction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapter 3</td>
<td></td>
<td></td>
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**Related Items**

<table>
<thead>
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<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SBEHWK; SBEarthwork</td>
<td>COMP 700-050-04</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
<td></td>
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</tbody>
</table>

**Documentation**

<table>
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</thead>
<tbody>
<tr>
<td>Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.</td>
</tr>
<tr>
<td>Construction</td>
<td>Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.</td>
</tr>
</tbody>
</table>

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**Prep & Doc Manual Chapter(s)**

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Design</th>
<th>Construction</th>
</tr>
</thead>
<tbody>
<tr>
<td>9, 13</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 120-3- LATERAL DITCH EXCAVATION CY

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0120 3</td>
<td>LATERAL DITCH EXCAVATION</td>
<td>CY</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$20.07</td>
</tr>
</tbody>
</table>

**Details**

- Consists of excavation and disposal of muck, clay, rock or other material that is unsuitable in its original position, and that is excavated below the finished grade line template. Also includes all suitable material necessary to be removed in order to excavate the unsuitable material. The areas used to calculate subsoil excavation must also be used in calculating the fill areas, if material is to be replaced.

**Related Items**

- **Required**: 120-2-2 or 120-6 (2120-2-2 or 2120-6)

**Forms**

- **Design**: SBEHWK; SBEarthwork
- **Construction**: COMP 700-050-04

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- **PPM Chapter**: 9, 13
- **Other Standards**: Index No. 500, 505

---

### 120-4- SUBSOIL EXCAVATION CY

**Notes**

Refer to Plans Preparation Manual, Volume 1, Chapter 3 for guidance on Earthwork Items.

- Consists of excavation and disposal of muck, clay, rock or other material that is unsuitable in its original position, and that is excavated below the finished grade line template. Also includes all suitable material necessary to be removed in order to excavate the unsuitable material. The areas used to calculate subsoil excavation must also be used in calculating the fill areas, if material is to be replaced.

**Related Items**

- **Required**: 120-2-2 or 120-6 (2120-2-2 or 2120-6)

**Forms**

- **Design**: SBEHWK; SBEarthwork
- **Construction**: COMP 700-050-04

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- **PPM Chapter**: 9, 13
- **Other Standards**: Index No. 500, 505

---

### 120-5- CHANNEL EXCAVATION

**Notes**

Consists of excavation and disposal of all material from the limits of the channel, within the

---

**Details and Structure: Items 000 to 199**
lines and grades indicated in the plans and permit.

**Related Items**

- **Required**
  - **Forms**
    - **Design**: SBEHWK; SBEarthwork
    - **Construction**: Refer to Comp Book
  - **Documentation**
    - **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
    - **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

- **Recommended**
  - **Forms**
    - **Design**: COMP 700-050-04
  - **Documentation**
    - **Design**: Refer to Plans Preparation Manual, Volume 1, Chapter 3 for guidance on Earthwork Items.
  - **Related Items**
    - **Design**: 120-1 (2120-1)
  - **Specifications**
    - **Index No.**: 500, 505

**References**

- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**
- **Prep & Doc Manual Chapter(s)**: 9, 13

---

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

**Struct.** 120-5- CHANNEL EXCAVATION CY

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>01205</td>
<td>CHANNEL EXCAVATION</td>
<td>CY</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$22.96</td>
</tr>
</tbody>
</table>

**120-6- EMBANKMENT**

- **Unit**: CY; M3
- **Accuracy**: Cubic Yard; Cubic Meter
- **PlanQuantity?**: yes

**Notes**

Refer to Plans Preparation Manual, Volume 1, Chapter 3 for guidance on Earthwork Items. This item should be used on projects with cross sections to pay for the quantity of embankment on the project.

**Related Items**

- **Required**
  - **Forms**
    - **Design**: SBEHWK; SBEarthwork
    - **Construction**: Refer to Comp Book
  - **Documentation**
    - **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
    - **Construction**: Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

- **Recommended 120-1 (2120-1)**

**References**

- **PPM Chapter**
- **Other**
- **Standards**: Index No. 500, 505
- **Specifications**
- **Prep & Doc Manual Chapter(s)**: 9, 13

---

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

**Details and Structure: Items 000 to 199**
### Notes

- The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0120 6</td>
<td>EMBANKMENT</td>
<td>CY</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$8.88</td>
</tr>
</tbody>
</table>

### 120-71- REGULAR EXCAVATION (3R PROJECTS ONLY)

| Notes Details | Refer to Plans Preparation Manual, Volume 1, Chapter 3 for guidance on Earthwork Items. to be used only on resurfacing or minor widening and resurfacing projects which conform to the guidelines in the Plans Preparation Manual. The designer will calculate quantities based on information obtained from the field and the proposed typical section. The designer will continue to show the Summary of Earthwork in the plans. The summary should show all quantities and adjustments. Effective 7/2000 letting: This item should be used on projects with limited or no cross sections, to pay for the quantity of excavation on the project. Item 120-22 (2120-22) should be considered. |

### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuantLS</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
</tbody>
</table>

### Documentation

| Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor. | Construction | Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances. |

### References

- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**
- **Prep & Doc Manual Chapter(s)**: 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

### Notes

- The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
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<th>Price</th>
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</thead>
<tbody>
<tr>
<td>0120 71</td>
<td>REGULAR EXCAVATION (3-R PROJECTS ONLY)</td>
<td>LS</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$23,478.15</td>
</tr>
</tbody>
</table>

### 120-72- GRAVEL FILL

| Notes Details | Unit CY; M3 | Accuracy Cubic Yard; Cubic Meter | PlanQuantity? no |

**Details and Structure:** Items 000 to 199
Calculations will be made by the average end area method for all material placed within the limits and according to the detail shown in the plans.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Details

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Related Items

Required

Design: SHTabQuant

Recommended

Design: COMP 700-050-04

Forms

Required

Design: SHTabQuant

Recommended

Construction: 700-050-54

Documentation

Required

Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Recommended

Construction: Measure inside the truck bed; calculate the volume by multiplying those three dimensions. Subtract 2% to account for the hoist box and bed fillets. Record all field records on site source record form and transfer final quantity to computation book.

References

PPM Chapter: 6, 7, 13

Other

Standards

Specifications

Plan Details and/or Tech Spec required.

Prep & Doc Manual Chapter(s): 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. 120-72- GRAVEL FILL CY

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0120 72</td>
<td>GRAVEL FILL</td>
<td>CY</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$188.82</td>
</tr>
</tbody>
</table>

120-73- LIGHTWEIGHT AGGREGATE FILL

Unit: CY; M3

Accuracy: 10th of a Cubic Yard; 10th of a Cubic Meter

Plan Quantity?: no

Details

Calculations will be made by the average end area method for all material placed within the limits and according to the detail shown in the plans.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

Required

Design: SHTabQuant

Recommended

Design: COMP 700-050-04

Construction: Refer to Comp Book

Documentation

Required

Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Recommended

Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0120 73</td>
<td>LIGHTWEIGHT AGGREGATE FILL</td>
<td>CY</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$0.00</td>
</tr>
</tbody>
</table>

**120-74-** SURCHARGE EMBANKMENT

**Unit** CY; M3  
**Accuracy** Cubic Yard; Cubic Meter  
**PlanQuantity?** no

**Details**

The work of constructing surcharge fills, as shown in the plans and any extensions thereof, directed by the engineer, shall be included in the price and payment for surcharge embankment. The quantity shall be measured as provided in 120-12.2, with the exception that the original ground line used in computations shall be the finished grading template for the permanent construction. The measurement shall include only surcharge material actually placed above the original ground line (as defined above) and within the lines and grades for surcharge construction, as indicated in the plans or directed by the engineer. No allowance will be made for subsidence of material below the original ground line, as defined above. The price and payment for surcharge embankment shall be full compensation for all work required to construct and remove surcharge fills, including furnishing from areas provided by the contractor and borrow excavation required. Surcharge embankment requires a Technical Specification.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

**Required**  
**Forms**  
Design: SHTabQuant  
Construction: Refer to Comp Book  
**Documentation**  
Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.  
Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**Recommended**  
**Forms**  
Design: COMP 700-050-04  
**Documentation**  
**References**  
PPM Chapter  
Other  
Standards

---

Details and Structure: Items 000 to 199
Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. 120-74- SURCHARGE EMBANKMENT CY

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
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<th>Price</th>
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<tbody>
<tr>
<td>0120 74</td>
<td>SURCHARGE EMBANKMENT</td>
<td>CY</td>
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<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
<th>Notes</th>
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<tbody>
<tr>
<td>121-70-</td>
<td>FLOWABLE FILL</td>
<td>CY</td>
<td>M3</td>
<td>no</td>
<td>Applications for flowable fill include: beddings, encasements, closure for tanks, pipes, and general backfill for trenches.</td>
</tr>
</tbody>
</table>

Recommended

<table>
<thead>
<tr>
<th>Forms</th>
<th>Required</th>
<th>Design</th>
<th>Construction</th>
<th>Refer to Comp Book</th>
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<tbody>
<tr>
<td>Documentation</td>
<td></td>
<td>Design</td>
<td></td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
</tr>
<tr>
<td></td>
<td></td>
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<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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</tbody>
</table>

References

PPM Chapter
Other Standards  Index No. 307
Specifications
Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. 121-70- FLOWABLE FILL CY

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0121 70</td>
<td>FLOWABLE FILL</td>
<td>CY</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$166.33</td>
<td></td>
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<table>
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<th>Required</th>
<th>Design</th>
<th>Construction</th>
<th>Documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
<td></td>
<td></td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
</tr>
<tr>
<td>Construction</td>
<td></td>
<td></td>
<td></td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
</tbody>
</table>

Related Items

Forms

Details

Includes excavation for bridge foundations, box culverts, pipe culverts, retaining walls,
headwalls for pipe culverts and drains, manholes, and similar structures. Direct Payment: refer to Method of Measurement in specifications. No Direct Payment: work is included in the price for concrete or other related items.

**Related Items**

**Required** | **Recommended**
--- | ---
Forms Design | SHTabQuant COMP 700-050-04
Construction Design | Refer to Comp Book

**Documentation**

**Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Construction** Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter
Other
Standards
Specifications

**Prep & Doc Manual Chapter(s)** 6, 7, 13

---

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

**Struct.** 125-1- EXCAVATION FOR STRUCTURES CY

---

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0125 1</td>
<td>EXCAVATION FOR STRUCTURES</td>
<td>CY</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$66.60</td>
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</tbody>
</table>

**125-3- SELECT BEDDING MATERIAL**

**Unit** CY; M3 **Accuracy** Cubic Yard; Cubic Meter **PlanQuantity?** no

**Notes**

No payment for this material will be made when available from excavation of pipe culvert or from other material from grading operations at a location not sufficiently remote to require loading on trucks.

**Related Items**

**Required** | **Recommended**
--- | ---
Forms Design | SHTabQuant COMP 700-050-04
Construction | 700-050-54

**Documentation**

**Design** Measure inside the truck bed; calculate the volume by multiplying those three dimensions. Subtract 2% to account for the hoist box and bed fillets. Record all field records on site source record form and transfer final quantity to computation book.

**Construction** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**References**

PPM Chapter
Other
Standards
Specifications

**Prep & Doc Manual Chapter(s)** 6, 7, 13
### 125- 3- SELECT BEDDING MATERIAL

#### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0125 3</td>
<td>SELECT BEDDING MATERIAL</td>
<td>CY</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$90.56</td>
</tr>
</tbody>
</table>

### 141- 70- SETTLEMENT PLATE ASSEMBLY

#### Notes

- **Description**: Used with surcharge embankment item
- **Details**: For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

#### Related Items

- **Required**: SHTabQuant
- **Recommended**: COMP 700-050-03

#### Forms

- **Design**: Refer to Comp Book
- **Construction**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

#### Documentation

- **Design**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).
- **Construction**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

#### References

- **PPM Chapter**: 540
- **Other**: Index No. 540
- **Specifications**: Plan Detail and/or Tech Spec Required

#### Prep & Doc Manual Chapter(s)

- 6, 7, 13

---

### 142- 70- SAND FILL

#### Notes

For Plan Detail/Tech Spec items: The Designer should ensure that the description,
materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>700-050-54</td>
</tr>
<tr>
<td>Documentation</td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
</tr>
<tr>
<td>Construction</td>
<td>Measure inside the truck bed; calculate the volume by multiplying those three dimensions. Subtract 2% to account for the hoist box and bed fillets. Record all field records on site source record form and transfer final quantity to computation book.</td>
</tr>
</tbody>
</table>

**References**

- PPM Chapter
- Other
  - Standards
  - Specifications

**Plan Detail and/or Tech Spec Required**

**Prep & Doc Manual Chapter(s)**: 6, 7, 13

*TRNS*PORT Category (DRAFT FIELD): 0200  Roadway

**Status**: Inactive Structure

**Struct.**: 142-70-  SAND FILL  CY

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0142 70</td>
<td>FILL SAND</td>
<td>CY</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$35.91</td>
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</tbody>
</table>

**144-1- A  DIGITAL INCLINOMETER CASING**

<table>
<thead>
<tr>
<th>Unit</th>
<th>LF; M1</th>
<th>Accuracy</th>
<th>Linear Foot; 10th of a Meter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Notes</td>
<td>Valid through 6-30-2009; future use to be coordinated with State Geotech Engineer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Details</td>
<td>For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
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</thead>
<tbody>
<tr>
<td>Forms</td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>COMP 700-050-03</td>
</tr>
<tr>
<td>Documentation</td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
</tr>
<tr>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
</tbody>
</table>

**References**

- PPM Chapter
- Other
  - Standards
Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. 144-1- A DIGITAL INCLINOMETER CASING LF

A = Description
1 (Vertical)
2 (Horizontal)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0144 1 1</td>
<td>DIGITAL INCLINOMETER CASING, VERTICAL</td>
<td>LF</td>
<td>T</td>
<td>1/1/2007</td>
<td>6/30/2009</td>
<td>$21.33</td>
</tr>
</tbody>
</table>

144-71- PORE-PRESSURE TRANSDUCER (PIEZOMETER)

<table>
<thead>
<tr>
<th>Unit</th>
<th>EA</th>
<th>Accuracy</th>
<th>Each</th>
<th>PlanQuantity?</th>
<th>no</th>
</tr>
</thead>
</table>

Notes

Valid through 6-30-2009; future use to be coordinated with State Geotech Engineer

Details

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

Required
Design SHTabQuant
Construction Refer to Comp Book

Recommended
Design COMP 700-050-03

Forms

Documentation

Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter
Other
Standards
Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. 144-71- PORE-PRESSURE TRANSDUCER (PIEZOMETER) EA

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0144 71</td>
<td>PORE-PRESSURE TRANSDUCER, PIEZOMETER</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
<td>6/30/2009</td>
<td>$1,800.00</td>
</tr>
</tbody>
</table>

**144-72-** TUBING FOR PIEZOMETER

**Notes**
Valid through 6-30-2009; future use to be coordinated with State Geotech Engineer

**Details**
For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
<tr>
<td>Documentation</td>
<td>Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
<tr>
<td>References</td>
<td>PPM Chapter</td>
<td>Other</td>
</tr>
<tr>
<td></td>
<td>Standards</td>
<td>Specifications</td>
</tr>
</tbody>
</table>

**Plan Detail and/or Tech Spec Required**

| Prep & Doc Manual Chapter(s) | 7, 13 |

**TRNS*PORT Category (DRAFT FIELD):**
0200 Roadway

**Status**

**Struct.** 144-72- TUBING FOR PIEZOMETER LF

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0144 72</td>
<td>TUBING FOR PIEZOMETER</td>
<td>LF</td>
<td>T</td>
<td>1/1/2007</td>
<td>6/30/2009</td>
<td>$15.00</td>
</tr>
</tbody>
</table>

**144-73-** DIGITAL INCLINOMETER

**Notes**
Valid through 6-30-2009; future use to be coordinated with State Geotech Engineer

**Details**
For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
<tr>
<td>Documentation</td>
<td>Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities</td>
</tr>
</tbody>
</table>
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Description</th>
<th>Unit</th>
<th>Accuracy</th>
<th>Plan Quantity?</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>144-74-</td>
<td>PORE-PRESSURE TRANSDUCER- CONTROL/READOUT UNIT</td>
<td>EA</td>
<td>Each</td>
<td>no</td>
<td>Valid through 6-30-2009; future use to be coordinated with State Geotech Engineer</td>
</tr>
</tbody>
</table>

Details:
For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items:
- **Required**
  - Design: SHTabQuant
  - Construction: Refer to Comp Book

- **Recommended**
  - Design: COMP 700-050-03

References:
- PPM Chapter
- Other
- Standards
- Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status:
- Struct. 144-74- PORE-PRESSURE TRANSDUCER- CONTROL/READOUT UNIT EA

Notes:
Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. Record final quantity on the tabulation sheet (plans) or computation form (comp book).
### 145- 1-

**GEOSYNTHETIC REINFORCED SOIL SLOPE**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0144 74</td>
<td>PORE-PRESSURE TRANSDUCER, CONTROL / READOUT UNIT</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
<td>6/30/2009</td>
<td>$1,000.00</td>
</tr>
</tbody>
</table>

**Notes**

Refer to Plans Prep Manual, Volume 1, Chapter 31, to establish design guidelines, parameters, and limitations for these systems. Payment will be based on Plan Quantity, regardless of the length or number of layers of geosynthetic, including any reinforcement required below ground line. Does not include the cost of backfill material or placement of backfill.

Plan measurement will be based on the projected height of the slope face, from top of slope to the ground line at the toe of slope. Refer to the specifications.

**Related Items**

**Required**

<table>
<thead>
<tr>
<th>Forms</th>
<th>Design</th>
<th>SHTabQuant</th>
<th>COMP 700-050-01</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.</td>
<td></td>
</tr>
<tr>
<td>Construction</td>
<td>Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**References**

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standards</td>
<td>Index No. 501</td>
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</tbody>
</table>

**PPM Chapter**

6, 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

**Struct.** 145- 1-

**GEOSYNTHETIC REINFORCED SOIL SLOPE**

**SF**

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0145 1</td>
<td>GEOSYNTHETIC REINFORCED SOIL SLOPE</td>
<td>SF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$4.81</td>
</tr>
</tbody>
</table>

### 145- 2-

**GEOSYNTHETIC REINFORCED FOUNDATION OVER SOFT SOIL**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0145 2</td>
<td>GEOSYNTHETIC REINFORCED FOUNDATION OVER SOFT SOIL</td>
<td>SY</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Notes**

Refer to Plans Prep Manual, Volume 1, Chapter 31, to establish design guidelines, parameters, and limitations for these systems. Payment will be based on Plan Quantity, regardless of the length or number of layers of geosynthetic, including any reinforcement required below ground line. Does not include the cost of backfill material or placement of backfill.
Plan measurement will be based on the area of embankment to be reinforced. Refer to specifications.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Forms</strong></td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>COMP 700-050-01</td>
</tr>
<tr>
<td><strong>Documentation</strong></td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td>Refer to Comp Book</td>
</tr>
<tr>
<td>Construction</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.</td>
</tr>
<tr>
<td>Construction</td>
<td>Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.</td>
</tr>
</tbody>
</table>

**References**

<table>
<thead>
<tr>
<th>Standards</th>
<th>Prep &amp; Doc Manual Chapter(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Index No. 501</td>
<td>6, 7, 13</td>
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</table>

**Note:**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0145 2</td>
<td>GEOSYNTHETIC REINFORCED FOUNDATION OVER SOFT SOIL</td>
<td>SY</td>
<td>1/1/2007</td>
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</tbody>
</table>

**145- 71- A**  
REINFORCEMENT GRID

**Unit**  
SY; M2

**Accuracy**  
Square Yard; Square Meter

**Plan Quantity?**  
non

**Notes**  
Future use will require Specification Development

**Details**

Geosynthetic Reinforced Roadway Base for Construction Expedient

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
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<tbody>
<tr>
<td><strong>Forms</strong></td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>COMP 700-050-01</td>
</tr>
<tr>
<td><strong>Documentation</strong></td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td>Refer to Comp Book</td>
</tr>
<tr>
<td>Construction</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
</tr>
<tr>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
</tbody>
</table>

**References**

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Other Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Index No. 501</td>
</tr>
</tbody>
</table>
Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)  6, 7, 13

---

TRNS*PORT Category (DRAFT FIELD):  0200  Roadway

Status

Struct.  145- 71- A  REINFORCEMENT GRID  SY

A = Description
1 (Biaxial Type 1)
2 (Biaxial Type 2)
3 (Biaxial Type 3)

Notes  Future use will require Specification Development

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0145 71 1</td>
<td>REINFORCEMENT GRID, BIAXIAL TYPE 1</td>
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<td>T</td>
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<tr>
<td>0145 71 2</td>
<td>REINFORCEMENT GRID, BIAXIAL TYPE 2</td>
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<td>0145 71 3</td>
<td>REINFORCEMENT GRID, BIAXIAL TYPE 3</td>
<td>SY</td>
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<td>1/1/2007</td>
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</table>

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160- 3-  COMMERCIAL STABILIZING MATERIAL

<table>
<thead>
<tr>
<th>Unit</th>
<th>CY; M3</th>
<th>Accuracy</th>
<th>Cubic Yard; Cubic Meter</th>
<th>PlanQuantity?</th>
<th>no</th>
</tr>
</thead>
</table>

Notes

Details

Contact the District Soils Engineer for basis of estimate on each project. Show basis.

Related Items

Required
Forms
Design  SHTabQuant
Construction  700-050-54

Recommended

Documentation
Design  Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction  Measure inside the truck bed; calculate the volume by multiplying those three dimensions. Subtract 2% to account for the hoist box and bed fillets. Record all field records on site source record form and transfer final quantity to computation book.

References

PPM Chapter
Other
Standards
Specifications  Prep & Doc Manual Chapter(s)  6, 7, 13

---

TRNS*PORT Category (DRAFT FIELD):  0200  Roadway

Status

Struct.  160- 3-  COMMERCIAL STABILIZING MATERIAL  CY

Notes
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref</th>
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</thead>
<tbody>
<tr>
<td>0160 3</td>
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</tr>
</tbody>
</table>

### 160- 4- TYPE B STABILIZATION

**Unit**: SY; M2  
**Accuracy**: Square Yard; Square Meter  
**PlanQuantity?**: yes

**Notes**
Consists of stabilizing designated portions of the roadbed to provide a firm and unyielding subgrade. Stabilizing material can be obtained from existing base material, or from commercial and local materials.

**Related Items**
- **Required**: SHTabQuant  
- **Recommended**: COMP 700-050-01

**Forms**
- **Design**: Refer to Comp Book

**Documentation**
- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

- **Construction**: Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**
- **PPM Chapter**:  
- **Other**: Index No. 506

**Prep & Doc Manual Chapter(s)**: 6, 7, 13

---

**TRNS*PORT Category (DRAFT FIELD)**: 0200 Roadway

**Status**

**Struct.**: 160- 4- TYPE B STABILIZATION SY

**Notes**

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>0160 4</td>
<td>TYPE B STABILIZATION</td>
<td>SY</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td></td>
<td>$3.91</td>
</tr>
</tbody>
</table>

### 160- 6- STABILIZED SUBBASE

**Unit**: SY; M2  
**Accuracy**: Square Yard; Square Meter  
**PlanQuantity?**: no

**Notes**
Stabilized subbase intended to strengthen the upper portion of the subgrade.

**Related Items**
- **Required**: SHTabQuant  
- **Recommended**: COMP 700-050-01

**Forms**
- **Design**: Refer to Comp Book

**Documentation**
- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet.
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>0160 6</td>
<td>STABILIZED SUBBASE SY</td>
<td>SY</td>
<td>no</td>
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<td></td>
<td></td>
<td>$10.22</td>
</tr>
</tbody>
</table>

### 162-1-AB PREPARED SOIL LAYER

**Unit**: SY; M2  
**Accuracy**: Square Yard; Square Meter  
**PlanQuantity?**: no

**Notes**

Not to be used for Section 580: Landscape Operations. Refer to 580 specifications.

FINISH SOIL LAYER: to be used for areas to be seeded, seeded and mulched, or planted.  
(Included for sodded areas when called for in the plans.) Refer to 162 specifications.

ORGANIC SOIL LAYER: only when required by permit. 6" depth.

BLANKET MATERIAL: only when required by permit. Show depth in plans.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
</tbody>
</table>

**Documentation**

**Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter  
Other  
Standards: Index No. 105  
Blanket Material: Index No. 505

**Specifications**

Selected items to be used by Permit only
A = Material
1 (Finish Soil Layer)
2 (Organic Soil Layer) Note: by Permit only
3 (Blanket Soil Layer) Note: By Permit Only

B = Depth
1 (6") Standard
2 (12")
3 (Special Depth) A=2 or 3 only

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0162 1 11</td>
<td>PREPARED SOIL LAYER, FINISH SOIL LAYER, 6&quot;</td>
<td>SY</td>
<td>P</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$1.22</td>
</tr>
<tr>
<td>0162 1 12</td>
<td>PREPARED SOIL LAYER, FINISH SOIL LAYER, 12&quot;</td>
<td>SY</td>
<td>P</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$18.59</td>
</tr>
<tr>
<td>0162 1 21</td>
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<td>SY</td>
<td>P</td>
<td>1/1/2007</td>
<td></td>
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<td>$3.02</td>
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<tr>
<td>0162 1 22</td>
<td>PREPARED SOIL LAYER, ORGANIC SOIL LAYER, 12&quot;</td>
<td>SY</td>
<td>P</td>
<td>1/1/2007</td>
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<td>$5.75</td>
</tr>
<tr>
<td>0162 1 33</td>
<td>PREPARED SOIL LAYER, BLANKET SOIL LAYER, SPECIAL DEPTH</td>
<td>SY</td>
<td>P</td>
<td>3/1/2007</td>
<td></td>
<td></td>
<td>$8.06</td>
</tr>
</tbody>
</table>

173- 71- DRILLING HOLES FOR PRESSURE GROUTING

| Unit | EA | Accuracy | PlanQuantity? | no |

Notes

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

Required
Design: SHTabQuant
Construction: Refer to Comp Book

Recommended
Design: COMP 700-050-03
Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter
Other
Standards
Specifications

Prep & Doc Manual Chapter(s): 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status
Struct. 173- 71- DRILLING HOLES FOR PRESSURE GROUTING EA

Notes

Details and Structure: Items 000 to 199
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0173 71</td>
<td>DRILLING HOLES FOR PRESSURE GROUTING</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$306.00</td>
</tr>
</tbody>
</table>

### 173- 76- GROUT PIPE INSTALLATION

**Unit**: LF; M1  
**Accuracy**: Linear Foot; 10th of a Meter  
**PlanQuantity?**: no

**Notes**
For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

- **Required**: SHTabQuant  
- **Recommended**: COMP 700-050-03

**Forms**
- **Design**: Refer to Comp Book
- **Construction**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Documentation**
- **Design**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**
- **PPM Chapter**: Design  
- **Construction**: Other  
- **Standards**:  
- **Specifications**:  

**Plan Detail and/or Tech Spec Required**

**Prep & Doc Manual Chapter(s)**:  6, 7, 13

---

**TRNS*PORT Category (DRAFT FIELD)**:  0200  Roadway

**Status**

**Struct.**  173- 76-  
**Notes**

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0173 76</td>
<td>GROUT PIPE INSTALLATION</td>
<td>LF</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$18.12</td>
</tr>
</tbody>
</table>

### 173- 77- A SUBSURFACE PRESSURE GROUTING

**Unit**: CY; M3  
**Accuracy**: 10th of a Cubic Yard; 10th of a Cubic Meter

**Notes**
Contact the State Structures Design Office prior to using this item. This item to be used for subsurface applications only. May be used for sinkhole repair. Tech Specs should indicate that this item includes all work and materials for grout injection; drilling holes and grout pipe may be paid separately under related 173 items. Clearly define material properties in specifications.

For concrete structures, refer to Structures items 400 to 460.
For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

**Forms**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
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<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>COMP 700-050-04/07</td>
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</tbody>
</table>

**Documentation**

<table>
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<tr>
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<th>Construction</th>
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</thead>
<tbody>
<tr>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
</tbody>
</table>

**Notes**

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

**Struct.** 173- 77- A SUBSURFACE PRESSURE GROUTING CY

A= Grout Material
1 (Sand-Cement)
2 (Sand Cement with Calcium Chloride) CaCl₂
3 (Cement Slurry)

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0173 77 1</td>
<td>SUBSURFACE PRESSURE GROUTING, SAND CEMENT</td>
<td>CY</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$310.95</td>
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<tr>
<td>0173 77 2</td>
<td>SUBSURFACE PRESSURE GROUTING, SAND CEMENT WITH CALCIUM CHLORIDE</td>
<td>CY</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$750.00</td>
</tr>
<tr>
<td>0173 77 3</td>
<td>SUBSURFACE PRESSURE GROUTING, CEMENT SLURRY</td>
<td>CY</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$750.00</td>
</tr>
</tbody>
</table>

**175- 1-** RESEATING CONCRETE PAVEMENT

**Unit** SY; M2

**Accuracy** Square Yard; Square Meter

**PlanQuantity?** yes

**Notes**

Perform controlled cracking of concrete pavement and reseating of the cracked slabs, by rolling, tamping, etc., on the underlying subgrade to provide a firm base for asphalt concrete surfacing.

**Related Items**

**Forms**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>COMP 700-050-01</td>
</tr>
</tbody>
</table>
Standards
Specifications

Struct.  175- 1- RESEATING CONCRETE PAVEMENT SY

Notes
Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References
PPM Chapter
Other
Standards
Specifications
Prep & Doc Manual Chapter(s)  6, 13

TRNS*PORT Category (DRAFT FIELD):  0200  Roadway

Status
Struct.  175- 1- RESEATING CONCRETE PAVEMENT SY

Notes
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0175 1</td>
<td>RESEATING CONCRETE PAVEMENT</td>
<td>SY</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$7.50</td>
</tr>
</tbody>
</table>

180- 70- STABILIZED SUBBASE

Unit SY; M2
Accuracy Square Yard; Square Meter
PlanQuantity? yes

Notes
Valid through 6-30-2008. For projects with asphalt surfaces, refer to Section 160 items. For projects with concrete surfaces, contact Pavement Design for Developmental Specification.

Details
Refer to specifications- compare Section 160 and 180 prior to requesting item(s).

Related Items
Required
Design
Construction

Recommended
Design
SHTabQuant
COMP 700-050-01

Forms
Documentation

Design
Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction
Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References
PPM Chapter
Other
Standards
Specifications
Prep & Doc Manual Chapter(s)  6, 7, 13

TRNS*PORT Category (DRAFT FIELD):  0200  Roadway

Status
Struct.  180- 70- STABILIZED SUBBASE SY
### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0180 70</td>
<td>STABILIZED SUBBASE</td>
<td>SY</td>
<td></td>
<td>1/1/2007</td>
<td>1/1/2008</td>
<td>$9.48</td>
</tr>
</tbody>
</table>

**180- 72-** RIGID PAVEMENT STABILIZED SUBBASE, SPECIAL SELECT MATERIAL

**Unit**SY; M2  **Accuracy**Square Yard; Square Meter  **Plan Quantity?**yes

**Notes**

Valid through 6-30-2008. For projects with asphalt surfaces, refer to Section 160 items. For projects with concrete surfaces, contact Pavement Design for Developmental Specification.

**Details**

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

**Required**SHTabQuant  **Recommended**COMP 700-050-01

**Forms**

**Design**Refer to Comp Book  

**Construction**

**Design**Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

**Construction**Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**

PPM Chapter

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)  6, 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

**Struct.** 180- 72- RIGID PAVEMENT STABILIZED SUBBASE, SPECIAL SELECT MATERIAL

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0180 72</td>
<td>STABILIZED SUBBASE FOR RIGID PAVEMENT- SPECIAL SELECT</td>
<td>SY</td>
<td>T</td>
<td>1/1/2007</td>
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Chapter 12

Items 200 to 299
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# REWORKING LIMEROCK BASE

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>Plan Quantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>SY; M2</td>
<td>Square Yard; Square Meter</td>
<td>yes</td>
</tr>
</tbody>
</table>

## Notes

### Details

Rework (or rework and widen) the existing rock base, by adding new limerock material as required by the plans. Construct adjacent turnouts, entirely with new limerock.

### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>COMP 700-050-01</td>
</tr>
</tbody>
</table>

### Forms

<table>
<thead>
<tr>
<th>Design</th>
<th>Construction</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Refer to Comp Book</td>
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### Documentation

<table>
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<th>Construction</th>
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<td>Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.</td>
</tr>
</tbody>
</table>

### References

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Standards</td>
</tr>
<tr>
<td></td>
<td>Specifications</td>
</tr>
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</table>

### Prep & Doc Manual Chapter(s)

6, 7, 13

### TRNS*PORT Category (DRAFT FIELD):

0200 Roadway

### Status

Inactive Structure

### Struct.

<table>
<thead>
<tr>
<th>210- 1- AA</th>
<th>REWORKING LIMEROCK BASE</th>
</tr>
</thead>
<tbody>
<tr>
<td>AA = Thickness</td>
<td></td>
</tr>
<tr>
<td>1 (6&quot;)</td>
<td></td>
</tr>
<tr>
<td>2 (8&quot; D-CSE)</td>
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</tr>
<tr>
<td>3 (10&quot; D-CSE)</td>
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</tr>
<tr>
<td>4 (Var. Thickness)</td>
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</tr>
<tr>
<td>5 (5&quot;)</td>
<td></td>
</tr>
<tr>
<td>6 (12&quot; D-CSE)</td>
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</tr>
<tr>
<td>7 (9&quot; D-CSE)</td>
<td></td>
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<tr>
<td>8 (4&quot;)</td>
<td></td>
</tr>
<tr>
<td>9 (3&quot;)</td>
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<tr>
<td>11 (14&quot; T-CSE)</td>
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<tr>
<td>12 (16&quot; T-CSE)</td>
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</tr>
<tr>
<td>13 (11&quot; D-CSE)</td>
<td></td>
</tr>
<tr>
<td>14 (Var. Thickness 4 1/2&quot; Avg.)</td>
<td></td>
</tr>
<tr>
<td>15 (Var. Thickness 12 1/2&quot; Avg.)</td>
<td></td>
</tr>
<tr>
<td>16 (7&quot;)</td>
<td></td>
</tr>
<tr>
<td>17 (13&quot; D-CSE)</td>
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<tr>
<td>18 (14&quot; D-CSE)</td>
<td></td>
</tr>
<tr>
<td>19 (Var. Thickness 7 1/2&quot; Avg.)</td>
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<tr>
<td>20 (Var. Thickness 9&quot; Avg.)</td>
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</tr>
<tr>
<td>21 (4 1/2&quot;)</td>
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</tr>
<tr>
<td>22 (9 1/2&quot;)</td>
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</tr>
</tbody>
</table>

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Details and Structure: Items 200 to 299
### LIMEROCK, NEW MATERIAL

**Unit** | CY; M3  
**Accuracy** | Cubic Yard; Cubic Meter  
**PlanQuantity?** | no

**Details**
Measurement, from specification: The quantity to be paid for will be the number of cubic yards of only the new limerock material actually placed in the road and accepted. The quantity will be determined by measurement in loose volume, in truck bodies, at the point of dumping on the road, with proper deduction for all materials wasted, left in trucks or otherwise not actually used in the road. For this purpose, level the material in the truck bodies to facilitate accurate measurement.

**Related Items**

**Forms**
- **Required**
  - Design: SHTabQuant
  - Construction: 700-050-54

**Documentation**
- **Design**
  - Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**
  - Measure inside the truck bed; calculate the volume by multiplying those three dimensions. Subtract 2% to account for the hoist box and bed fillets. Record all field records on site source record form and transfer final quantity to computation book.

**References**
- PPM Chapter
- Other Standards
- Specifications
  - **PPM Chapter**
  - **Other Standards**
  - **Specifications**
  - **Prep & Doc Manual Chapter(s)**: 6, 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status** | Inactive Structure

**Struct.** | 210- 2- LIMEROCK, NEW MATERIAL CY

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### LIMEROCK MATERIAL

**Unit** | CY; M3  
**Accuracy** | Cubic Yard; Cubic Meter  
**PlanQuantity?** | no

**Details**
Refer to specifications for correct usage; consider optional base pay item when possible.

**Related Items**

**Forms**
- **Required**
  - Design: SHTabQuant
  - Construction: 700-050-54

**Documentation**
- **Design**
  - Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
### Construction

Record final quantity on the tabulation sheet (plans) or computation form (comp book).

#### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<thead>
<tr>
<th>285-7AA-</th>
<th>OPTIONAL BASE</th>
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<tbody>
<tr>
<td><strong>Unit</strong></td>
<td>SY; M2</td>
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</table>

**Details**

Consists of base construction of one of the optional materials shown in the plan typical sections. The plans will include typical sections specifying only the base group on new construction and complete reconstruction projects, permitting the maximum number of general use options that the contractor can utilize. Note that there are still limitations given in the notes. Also, the designer can still specify base materials, if this is appropriate for the project. The Optional Base item is also used when specifying only one option, such as ABC III. The quantity must include a 4” (0.1 m) overhang, as shown on the typical section for rural projects.

**NOTE:** The cost of prime or tack coats used between layers of the base are included in the cost of the Optional Base.

#### Related Items

**Forms**

- **Required:** SHTabQuant
- **Recommended:** COMP 700-050-01

**Documentation**

- **Design:** Refer to Comp Book
- **Construction:** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

- **Construction:** Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

#### References

- **PPM Chapter:**
- **Other:**
- **Standards:** Index No. 514
- **Specifications:**
- **Prep & Doc Manual Chapter(s):** 6, 9, 13
AA = Is 01 Thru 15 which indicates Base Group, as shown on Index 514

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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**286- 1- TURNOUT CONSTRUCTION**

**Unit:** SY; M2  **Accuracy:** Square Yard; Square Meter  **Plan Quantity?** yes

**Notes**

Consists of constructing new turnouts or extending existing turnouts on resurfacing and widening/resurfacing projects. Consists of excavation and construction of base course, and specifically excludes placing of AC surface course.

**Details**

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor. Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**Related Items**

**Required**

Design: SBTURN; SBTurnouts

Construction: Refer to Comp Book

**Recommended**

Design: COMP 700-050-01

**Forms**

**Documentation**

Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction: Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**

PPM Chapter: This Chapter

Other: This Chapter

**Standards**

Index No. 516

**Specifications**

Prep & Doc Manual Chapter(s): 6, 9, 13

**Prep & Doc Manual Chapter(s):** 6, 9, 13

**TRNS**PORT Category (DRAFT FIELD): 0200 Roadway

**Status**

Struct. 286- 1- TURNOUT CONSTRUCTION SY

Details and Structure: Items 200 to 299
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**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

**Related Items**

**Forms**

Design: SBTURN; SBTurnouts

Construction: 700-050-56

**Documentation**

Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter

Other Standards: Index No. 516

Specifications

Prep & Doc Manual Chapter(s): 6, 9, 13

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

Struct. 286- 2- TURNOUT CONSTRUCTION- ASPHALT TN

**Notes**

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**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

**Related Items**

**Forms**

Design: SHTabQuant

Construction: 700-050-54

**Documentation**

Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
**Construction**

Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**

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**PPM Chapter**

Other

**Prep & Doc Manual Chapter(s)**

6, 9, 13

**TRNS*PORT Category (DRAFT FIELD):**

0200 Roadway

** Status**

Inactive Structure

**Struct.**

287-1 ASPHALT TREATED PERMEABLE BASE CY

**Notes**

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**Related Items**

**Unit**

CY; M3

**Accuracy**

Cubic Yard; Cubic Meter

**PlanQuantity?**

yes

**Item**

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**TRNS*PORT Category (DRAFT FIELD):**

0200 Roadway

** Status**

Inactive Structure

**Struct.**

288-001 CEMENT TREATED PERMEABLE BASE CY

**Notes**

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**Required**

**Recommended**

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Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

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**PPM Chapter**

Other

**Prep & Doc Manual Chapter(s)**

13

**TRNS*PORT Category (DRAFT FIELD):**

0200 Roadway

** Status**

Inactive Structure

**Struct.**

288-001 CEMENT TREATED PERMEABLE BASE CY

**Notes**

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**Related Items**

**Unit**

CY; M3

**Accuracy**

Cubic Yard; Cubic Meter

**PlanQuantity?**

yes

**Item**

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Chapter 13

Items 300 to 399
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### 327-70- AA  MILLING EXISTING ASPHALT PAVEMENT

**Unit**  SY; M2  
**Accuracy** Square Yard; Square Meter  
**PlanQuantity?** yes

**Notes**

**Details**

Consists of removing existing AC pavement to improve the rideability of the finished pavement, to lower the finished grade adjacent to existing curb prior to resurfacing, or to completely remove existing pavement. Includes transporting the milled material to the asphalt plant site, and stockpiling the material. Also includes removal of existing Reflective Pavement Markers. Show basis of calculation, include exceptions.

**Related Items**

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**Forms**

- Design  Refer to Comp Book

**Documentation**

- Design  Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
- Construction  Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**

- PPM Chapter
- Other
- Standards
- Specifications

**TRNS*PORT Category (DRAFT FIELD):**  0200  Roadway

**Struct.**  327-70- AA  MILLING EXISTING ASPHALT PAVEMENT  SY

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**Details and Structure:** Items 300 to 399
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### 334- 1- AA SUPERPAVE ASPHALTIC CONCRETE

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<th>PlanQuantity?</th>
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#### Notes
- **Details**: Consists of using SUPERPAVE asphalt mixture design and analysis test equipment and procedures, Gyratory Compactor to better simulate actual pavement loadings (five different traffic levels available) to provide for a better rut-resistant mix design. Use 110 lb per square yard per 1 inch (24 kg/m² per 10 mm) lift. Note: Other rates and PG 76-22 Binder may be used only when recommended by District Materials Engineer.

#### Related Items
- **Forms**
  - **Design**: SHTabQuant
  - **Construction**: COMP 700-050-06, 700-050-56

- **Documentation**
  - **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
  - **Construction**: Approved automated asphalt plant tickets shall be used and submitted as Department records; in case of a malfunction of the automated system, the data shall be hand written on blank plant tickets. Transfer quantity to computation book.

#### References
- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**
- **Prep & Doc Manual Chapter(s)**: 13

#### TRNS*PORT Category (DRAFT FIELD):
- 0200 Roadway

### Status
- **Struct.**: 334- 1- AA SUPERPAVE ASPHALTIC CONCRETE TN

**AA = Traffic**
- 11 (A)
- 12 (B)
- 13 (C)
- 14 (D)
- 15 (E)
- 21 (Traffic A, PG 76-22)
- 22 (Traffic B, PG 76-22)
- 23 (Traffic C, PG 76-22)
- 24 (Traffic D, PG 76-22)
- 25 (Traffic E, PG 76-22)

#### Notes
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
## Topic No. 600-000-002
### Basis of Estimates

**2009 Edition**

**October 6, 2008**

<table>
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---

**337- 7- AA ASPHALTIC CONCRETE FRICTION COURSE**

**Unit** TN; MT

**Accuracy** 10th of a Ton; 10th of a Metric Ton

**PlanQuantity?** no

**Notes**

The maximum spread rate used for estimating quantities are as follows:

- a=5~ FC-5 (Rubber): 80 lb/yd² (44 kg/m²); recommended thickness 3/4 in (20mm)
- a=7~ FC-9.5 (Rubber): 110 lb/yd² (72 kg/m²); recommended thickness 1 in (30mm)
- a=6~ FC-12.5 (Rubber): 165 lb/yd² (96 kg/m²); recommended thickness 1 1/2 in (40mm)
- a=21~ FC-9.5 (PG 76-22): 110 lb/yd² (72 kg/m²); recommended thickness 1 in (30mm)
- a=20~ FC-12.5 (PG 76-22): 165 lb/yd² (96 kg/m²); recommended thickness 1 1/2 in (40mm)
- a=22~ FC-5 (PG 76-22): 80 lb/yd² (44 kg/m²); recommended thickness 3/4 in (20mm)

The actual spread rate will be based on the contractor's mix design per specifications. Designers must specify on the Typical Section, the traffic Level for structural Friction Courses FC-9.5 and FC-12.5.

Refer to Pavement Design Manual for additional information.

**Related Items**

**Forms**
- **Required**
  - Design: SHTabQuant
  - Construction: 700-050-56
- **Recommended**
  - Design: COMP 700-050-06
  - Construction: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
  - Other: Approved automated asphalt plant tickets shall be used and submitted as Department records; in case of a malfunction of the automated system, the data shall be hand written on blank plant tickets. Transfer quantity to computation book.

**References**

- PPM Chapter
- Other

---

Details and Structure: Items 300 to 399
Standards
Specifications

Prep & Doc Manual Chapter(s)  11, 13

TRNS^PORT Category (DRAFT FIELD):  0200  Roadway

Status

Struct.  337- 7- AA  ASPHALTIC CONCRETE FRICTION COURSE  TN

AA = Type
5 (FC-5, Rubber)
22 (FC-5, PG 76-22)
30 (Traffic B, FC-9.5, Rubber)
31 (Traffic B, FC-12.5, Rubber)
32 (Traffic C, FC-9.5, Rubber)
33 (Traffic C, FC-12.5, Rubber)
35 (Traffic D, FC-12.5, Rubber)
40 (Traffic B, FC-9.5, PG 76-22)
41 (Traffic B, FC-12.5, PG 76-22)
42 (Traffic C, FC-9.5, PG 76-22)
43 (Traffic C, FC-12.5, PG 76-22)
45 (Traffic D, FC-12.5, PG 76-22)

Notes  Valid through 6-30-2007:
AA = Type
6 (FC-12.5, Rubber)
7 (FC-9.5, Rubber)
20 (FC-12.5, PG 76-22)
21 (FC-9.5, PG 76-22)

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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0337 743 ASPHALT CONCRETE FRICTION COURSE, TRAFFIC C, FC-12.5, PG 76-22 TN 7/1/2007 $116.00
0337 745 ASPHALT CONCRETE FRICTION COURSE, TRAFFIC D, FC-12.5, PG 76-22 TN 7/1/2007 $117.73

339- 1- MISCELLANEOUS ASPHALT PAVEMENT

Unit TN; MT Accuracy 10th of a Ton; 10th of a Metric Ton PlanQuantity? no

Notes

Details
Consists of construction of asphalt pavement in areas which will not be subjected to vehicular traffic, such as pavement under guardrail, bicycle paths, median pavement, sidewalks, etc. The pay quantity will be based on the average spread rate or dimensions for the project, limited to a maximum of 105% of the plan quantity. For calculation, use a weight of 100 lb/sq-in (22kg/m² per 10mm) thickness.

Related Items
Required
Forms Design SBAshphaltMisc
Construction 700-050-56

Documentation
Design
Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction
Approved automated asphalt plant tickets shall be used and submitted as Department records; in case of a malfunction of the automated system, the data shall be hand written on blank plant tickets. Transfer quantity to computation book.

References
PPM Chapter
Other
Standards Index No. 400 for guardrail applications
Specifications

Notes

339- 1- MISCELLANEOUS ASPHALT PAVEMENT TN

Details and Structure: Items 300 to 399
Contact the State Materials Office for assistance with this office.

**Related Items**

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**Forms**

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**Documentation**

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**References**

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<td>6, 7, 13</td>
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**TRNS*PORT Category (DRAFT FIELD):**

| 0200 | Roadway |

**Status**

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**Struct.**

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<th>340-</th>
<th>OPEN GRADED CRACK RELIEF LAYER</th>
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**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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**341- 70-**

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<td>Square Yard; Square Meter</td>
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**Notes**

Consists of a separate application of asphalt rubber binder covered with a single application of aggregate. Jobs let through 6/04: When this item is used, item 2300- 1- 19 must be used. Jobs let 7/04 and later: Payment for bituminous material (rubber binder) is incidental to this item.

**Related Items**

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**Forms**

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**Documentation**

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**TRNS*PORT Category (DRAFT FIELD):**

| 0200 | Roadway |

**Status**

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350-1- AA CEMENT CONCRETE PAVEMENT PLAIN

**Unit**: SY; M2  **Accuracy**: Square Yard; Square Meter  **PlanQuantity?**: yes

**Details**: Consists of placement of plain Portland Cement Concrete pavement and also of construction of pavement joints. For colored concrete, see 523 items.

**Related Items**
- **Required**: SHTabQuant
- **Recommended**: COMP 700-050-01

**Forms**
- **Design**: SHTabQuant
- **Construction**: Refer to Comp Book

**Documentation**
- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
- **Construction**: Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**
- **PPM Chapter**: 305, 560
- **Other**: Index No. 305, 560
- **Specifications**: 6, 7, 13

**TRNS*PORT Category (DRAFT FIELD)**: 0200 Roadway

**Status**
- **Struct.**: 350-1- AA CEMENT CONCRETE PAVEMENT PLAIN SY

AA = thickness
1 (6")  2 (7")  3 (8")  4 (9")  5 (10")  6 (3")  7 (2")  8 (7 1/2")  9 (Var. 7 1/2" Avg.)  10 (12")  11 (13")  12 (11")  13 (11 1/2")  14 (14")  15 (13 1/2")  16 (10 1/2")  17 (8 1/2")  18 (15")
19 (12 1/2")
20 (Var. 9 1/2" Avg.)
21 (Var. 11" Avg.)
22 (Var. 11 1/2" Avg.)
23 (14 1/2")
24 (Var 10 1/2" average)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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350- 2- AA  CEMENT CONCRETE PAVEMENT, REINFORCED

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<td>Square Yard; Square Meter</td>
<td>yes</td>
</tr>
</tbody>
</table>

**Notes**

Consists of placement of steel reinforced Portland Cement Concrete pavement and also of construction of pavement joints, as described in Section 350.

For fiber reinforced concrete, contact the State Pavement Design Office.

For colored concrete, see 523 items.

**Details**

Required

<table>
<thead>
<tr>
<th>Forms</th>
<th>Design</th>
<th>Construction</th>
</tr>
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Required

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<tr>
<td>Location in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.</td>
<td></td>
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<tr>
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**Related Items**

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**Standards**

<table>
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**Specifications**

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<tr>
<td>6, 7, 13</td>
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**Status**

**Struct.** 350- 2- AA  CEMENT CONCRETE PAVEMENT, REINFORCED  SY

AA = thickness

1 (6")
2 (7")
3 (8")
4 (9")
5 (10")
6 (3")
7 (2")
9 (Var. 7 1/2" Avg.)
10 (12")
11 (13")
12 (11")

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<td>CEMENT CONC PAVT REINFORCED, 6&quot;</td>
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<td>$232.14</td>
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### 350-72- CLEANING & RESEALING JOINTS IN CONCRETE PAVEMENT

**Unit**: LF; M1  **Accuracy**: Linear Foot; 10th of a Meter

**Notes**
Longitudinal and transverse joints must be summarized. This item to be used on existing concrete pavement only. DO NOT Use on bridge structures; refer to item 400-12.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
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<tbody>
<tr>
<td>Forms</td>
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<td>Construction</td>
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<td>Documentation</td>
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<td>Construction</td>
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<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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**References**
PMP Chapter 305

**Prep & Doc Manual Chapter(s)** 6, 7, 13

**TRNS**PORT Category (DRAFT FIELD): 0200 Roadway

### Status
**Struct.** 350-72-

### Notes
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
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<td></td>
<td>$1.90</td>
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### 350-78- CLEANING AND SEALING RANDOM CRACKS IN CONCRETE PAVEMENT

**Unit**: LF; M1  **Accuracy**: Linear Foot; 10th of a Meter

**Notes**

**Details and Structure**: Items 300 to 399
**Notes**

**Details**
Longitudinal and transverse joints must be summarized. This item to be used on existing concrete pavement only.
DO NOT Use on bridge structures; refer to Section 400 items.

**Related Items**

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**Documentation**

Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter
Other
Specifications

Prep & Doc Manual Chapter(s): 6, 7, 13

---

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Struct.** 350- 78-

**CLEANING AND SEALING RANDOM CRACKS IN CONCRETE PAVEMENT**

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Item</th>
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**352- 70-**

**GRINDING CONCRETE PAVEMENT**

**Notes**

**Details**
This item to be used on existing concrete pavement only. Grinding of new concrete pavement included in the bid price for Cement Concrete Pavement.
DO NOT Use on bridge structures; refer to Section 400 items.

**Related Items**

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**Documentation**

Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter
Other
Specifications
Specifications

Prep & Doc Manual Chapter(s)  6, 7, 13

TRNS*PORT Category (DRAFT FIELD):  0200   Roadway

Status

Struct.  352- 70-   GRINDING CONCRETE PAVEMENT   SY

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<tr>
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353- 70-  CONCRETE PAVEMENT SLAB REPLACEMENT

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<th>CY; M3</th>
<th>Accuracy</th>
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<th>no/yes* of a Cubic Meter</th>
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Notes

Effective July 2008 letting, measurement will be plan quantity, per specification.

Details

For use on existing Concrete Pavement roadways only.

NOTE: Method of measurement change, per specifications. For projects let through 6/2008, method of measurement will be quantity, as placed. For projects let 7/2008 and later, method of measurement will be by plan quantity.

Related Items

Required  Recommended
Forms Design  SHTabQuant  COMP 700-050-04
Construction  Refer to Comp Book

Documentation

Design  Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction  Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter
Other
Standards  Index No. 305, 308
Specifications

Prep & Doc Manual Chapter(s)  6, 7, 13

TRNS*PORT Category (DRAFT FIELD):  0200   Roadway

Status

Struct.  353- 70-   CONCRETE PAVEMENT SLAB REPLACEMENT   CY

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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370- 1-  BRIDGE APPROACH EXPANSION JOINT

Details and Structure: Items 300 to 399
Basis of Estimates

2009 Edition

October 6, 2008

Unit: LF; M1
Accuracy: Linear Foot; 10th of a Meter
PlanQuantity: yes

Notes

Details
Consists of the construction of special expansion joints for concrete pavement near the bridge approach slabs. These joints contain a section of reinforced concrete subslab supporting the concrete pavement, and a portion of the pavement over the subslab interrupted by a galvanized sheet metal strip.

Related Items

Required

Recommended

Forms
Design: SHTabQuant
Construction: Refer to Comp Book

Documentation
Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
Construction: Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References
PPM Chapter
Other
Standards: Index No. 306
Specifications

Prep & Doc Manual Chapter(s): 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status
Struct: 370-1-
BRIDGE APPROACH EXPANSION JOINT LF

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<th>Item</th>
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</table>
Chapter 14

Items 400 to 499

State Specifications and Estimates Office
Estimating Systems Support Section
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NOTES BELOW ARE FOR CLASS NS, I, II, III, IV, and V, VI Concrete:

Class NS effective July 2009, pending specification and standards changes

No separate payment made for deck scuppers, poured expansion joints, deck control joints, preformed anchor bolt holes, plain neoprene bearing pads. These items are included in the cost of the concrete.

Reinforcement steel may be incidental to the cost of the concrete; refer to Section 400 of the specifications. Reinforcement is incidental for concrete jackets on steel piles, steel in barriers, traffic separators, and parapets. For Gravity Walls, reinforcement steel is incidental to cost of concrete.

Include quantity block in plans by component (except for misc. concrete). Mass concrete should be broken out in the quantity block separately. See SDG’s 3.9. When component is phased, break down quantity by phase. Concrete quantity is PLAN QUANTITY (except for misc. concrete). See Section 400-22.2.2 of the Specifications.

ENDWALLS: Refer to Design Standards for correct class of concrete and other payment details. For some U-endwalls, payment is made under 430 items. For Index 250, reinforcing steel is included in cost of concrete.

Misc Concrete: Estimate 5 CY (5 M3) minimum. PENDING: To be replaced by Class NS concrete or other non-concrete items, to which concrete is incidental. Valid through July 2009?

Precast Deck Overlay: consists of Class IV with steel fiber reinforcement and low shrinkage admixtures. Coordinate Use of this item with the State Structures Design Office. Requires modified specifications.

Class III: When it is not practical to dewater land pier footings, show seal concrete in the plans. For water piers, both waterline and mud line footings require seal concrete to be shown in the plans. See SDG’s 3.7.

Superstructure Light-Weight Concrete requires plan notes and/or a TSP for unit weight, aggregate requirements, etc.

Low Shrink Deck Concrete requires a TSP.

Self-Consolidating Concrete requires a Tech Spec. Coordinate this specification with the State Structures Design Office.

Counterweight Concrete may require plan notes and/or a TSP for unit weight, aggregate requirements, etc.

Concrete for bascule bridge pier should be paid for under Substructure or Mass-Substructure pay items. See SDG’s 3.9.

Clearly delineate limits of microsilica concrete in the plans. Clearly delineate limits of calcium nitrite in the plans. CIP concrete requiring calcium nitrite should be paid for using the normal concrete pay item. See SDG’s 1.4.2.

Class VI: Coordinate the use of these items with the State Structures Design Office.
ORIGINAL MEASUREMENT:
ALL, Except MISC: Detailed calculations are required in the computation book, calculate
carefully to reflect actual scope of work. PLAN QUANTITY will be basis of payment to the
Contractor.
MISC: Detailed calculations are required in computation book.

FINAL:
ALL, Except MISC: No calculations required unless item is to be adjusted. Final pay
quantity will be PLAN QUANTITY with proper considerations for Specification tolerances.
MISC: Final measurements should be recorded in field book showing detailed calculations.
(Refer to subarticle 400-20.2.2 in the specifications.) Transfer final quantity to proper form
in computation book.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
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<td>SHTabQuant</td>
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<td>Construction</td>
<td>COMP 700-050-04/07</td>
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<tr>
<td>References</td>
<td>PPM Chapter</td>
<td>Mass Concrete SDG’s 3.9, Class and Admixtures SDG’s 1.4.2, Cofferdams and Seals SDG’s 3.7.</td>
</tr>
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<td>Mass Concrete SDG’s 3.9, Class and Admixtures SDG’s 1.4.2, Cofferdams and Seals SDG’s 3.7.</td>
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<td>APPROACH SLABS: 20900, 20910</td>
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<td></td>
<td>CIP Retaining Wall: 5100</td>
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<td>CULVERTS: 290</td>
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<td></td>
<td>ENDWALLS: 245, 250, 251, 252, 253, 255, 261, 264, 266, 282, 295</td>
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<td>MISC: 270, 280, 286, 287</td>
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<td>GRAVITY WALL: 520</td>
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<td>RET WALLS: 5000 series</td>
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<td>Specifications</td>
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<tr>
<td>Prep &amp; Doc Manual Chapter(s)</td>
<td>6, 7, 13</td>
<td></td>
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TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. 400-  ALL Class NS, I, II, III, IV, V, VI Details CY

AAA = Applications, Valid Class(es)
1 (Culverts) Class I, II, IV
2 (Endwalls) Class I, II, IV
4 (Superstructure) Class II, IV
5 (Substructure) Class II, IV
6 (Counterweight) Class IV
8 (Bulkhead) Class IV
10 (Approach Slabs) Class II
11 (Retaining Walls) Class NS: Gravity Wall, Index 520; Class II: Gravity Wall w/ junction slab, Index 520
12 (Trench Slabs) Class II
13 (Concrete Steps) Class NS: Index 521 **New item effective 7/09 letting***
15 (Miscellaneous) **Valid through ??**
20 (Seal) Class III
22 (Superstructure Closure Joint) Class ??
25 (Mass- Substructure) Class ??

Details and Structure: Items 400 to 499
39 (Precast Segmental Superstructure) Class IV, V, VI
40 (Precast Segmental Substructure) Class IV, V
41 (Precast Deck Overlay) Class IV with steel fiber reinforcement & low shrink admixtures
42 (Substructure Self-Consolidating Concrete) Class VI, Tech Spec required
43 (Superstructure Self-Consolidating Concrete) Class VI, Tech Spec required
104 (Superstructure Light-Weight) Class ??
105 (Superstructure Special) Class ??
106 (Microsilica Substructure) Class V
107 (Microsilica Substructure-Mass) Class V
239 (Low Shrink Deck) Material Only, Class V

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<td>CY; M3</td>
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<td><strong>Accuracy</strong></td>
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<tr>
<td><strong>PlanQuantity?</strong></td>
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**Notes**

Effective July 2009 ??, pending Specification

**Details**

Refer to 400- ALL for details on all classes of concrete

**Related Items**

**Required**

Design SHTabQuant

**Recommended**

415- 1- A

**Forms**

Refer to Comp Book

**Documentation**

Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**Specifications**

346, 400

**PPM Chapter**

Other Mass Concrete SDG’s 3.9, Class and Admixtures SDG’s 1.4.2, Cofferdams and Seals SDG’s 3.7.

**Prep & Doc Manual Chapter(s)**

6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

**Status**

**Struct.** 400- 0-AAA CLASS NS CONCRETE CY

AAA = Class 0 Applications
11 (Gravity Wall), Index 520 **Effective 7/2009**
13 (Concrete Steps) Index 521 **Effective 7/2009**

**Notes** CLASS NS: DO NOT OPEN until specifications & standards are approved

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<thead>
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<td><strong>Unit</strong></td>
<td>CY; M3</td>
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<tr>
<td><strong>Accuracy</strong></td>
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</tr>
<tr>
<td><strong>PlanQuantity?</strong></td>
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**Notes**

Refer to 400- ALL for details on all classes of concrete

**Details**

Refer to 400- ALL for details on all classes of concrete
### Related Items

**Required**

**Recommended**  415- 1- A

### Forms

**Design** SHTabQuant

**Construction** Refer to Comp Book

### Documentation

**Design**

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Construction**

Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References

**PPM Chapter**

Other Mass Concrete SDG’s 3.9, Class and Admixtures SDG’s 1.4.2, Cofferdams and Seals SDG’s 3.7.

**Standards**

Refer to 400- ALL for details on all classes of concrete

**Specifications** 346, 400

### Prep & Doc Manual Chapter(s)

6, 7, 13

---

**TRNS*PORT Category (DRAFT FIELD):**  100 or 200 Structures or Roadway

### Status

**Struct.**  400- 1-AAA **CLASS I CONCRETE**

AAA = Class I Applications

1 (Culverts)

2 (Endwalls) Index 250, 264, 266, 282

11 (Retaining Walls) Gravity Wall, Index 520 **Valid through 6-30-2009; replaced by Class NS Gravity Wall**

15 (Miscellaneous) **Valid through ??**

### Notes

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. Record final quantity on the tabulation sheet (plans) or computation form (comp book).

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**The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.**

<table>
<thead>
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<th>Item</th>
<th>Description</th>
<th>Unit</th>
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<th>LRE Ref Price</th>
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**400- 2-AAA **CLASS II CONCRETE**

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<tr>
<td>CY; M3</td>
<td>10th of a Cubic Yard; 10th of a Cubic Meter</td>
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### Notes

**Details**  Refer to 400- ALL for details on all classes of concrete

### Related Items

**Required**

**Recommended**  415- 1- A

### Forms

**Design** SHTabQuant

**Construction** Refer to Comp Book

### Documentation

**Design**

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Construction**

Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References

PPM Chapter
Mass Concrete SDG’s 3.9, Class and Admixtures SDG’s 1.4.2, Cofferdams and Seals SDG’s 3.7.

Other
Refer to 400-ALL for details on all classes of concrete

Standards
Specifications 346, 400

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. 400-2-AAA CLASS II CONCRETE CY

AAA = Class II Applications
1 (Culverts)
2 (Endwalls) Index 251, 252, 253, 255; NOT Index 260 or 261
4 (Superstructure)
5 (Substructure)
10 (Approach Slabs)
11 (Retaining Walls) Gravity Wall w/junction slab, Index 520
12 (Trench Slabs)
15 (Miscellaneous) **Valid through ???**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
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<th>LRE Ref Price</th>
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400-3-AAA CLASS III CONCRETE

Unit CY; M3
Accuracy 10th of a Cubic Yard; 10th of a Cubic Meter
PlanQuantity? yes/no

Notes

Details
Refer to 400-ALL for details on all classes of concrete

Related Items
Required 415-1-A
Recommended

Forms
Design SHTabQuant

Details and Structure: Items 400 to 499
Refer to 400-ALL for details on all classes of concrete.

Specifications: 346, 400

Prep & Doc Manual Chapter(s)

Standards

- Refer to 400-ALL for details on all classes of concrete

Specifications

- 346, 400

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. 400-3-AAA CLASS III CONCRETE CY

AAA = Class III Applications
15 (Miscellaneous) **Valid through ??**
20 (Seal) Class III

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Item</th>
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400-4-AAA CLASS IV CONCRETE

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Notes

Details

Refer to 400-ALL for details on all classes of concrete

Class IV normally used for aggressive environments.

Related Items

Forms

- Design SHTabQuant
- Construction Refer to Comp Book

Documentation

- Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

- PPM Chapter Mass Concrete SDG’s 3.9, Class and Admixtures SDG’s 1.4.2, Cofferdams and Seals SDG’s 3.7.

Specifications

- 346, 400

Prep & Doc Manual Chapter(s)
### Status

**TRNS*PORT Category (DRAFT FIELD):** 100 or 200 Structures or Roadway

#### Struct.  400-  4-AAA CLASS IV CONCRETE CY

AAA = Class IV Applications
1 (Culverts)
2 (Endwalls)
4 (Superstructure)
5 (Substructure)
6 (Counterweight)
8 (Bulkhead)
15 (Miscellaneous) **Valid through ???**
41 (Precast Deck Overlay) w/admixtures

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<thead>
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<th>Item</th>
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### 400-  6- PRECAST ANCHOR BEAMS

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#### Notes

Details

Intended for Precast Tie Back anchors for use in anchored wall systems. Include in anchored wall quantity block in plans

Related Items

Required

Forms

Design SHTabQuant

Recommended

Forms

Design COMP 700-050-03
**PRECAST ANCHOR BEAMS EA**

- **Status**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. Record final quantity on the tabulation sheet (plans) or computation form (comp book).

- **References**: PPM Chapter
- **Specifications**
- **Prep & Doc Manual Chapter(s)**: 6, 7, 13

---

**BRIDGE DECK GROOVING- DECK THICKNESS LESS THAN 8.5″**

- **Unit**: SY; M2
- **Accuracy**: Square Yard; Square Meter
- **Plan Quantity?**: yes

**Notes**

- Item intended for cases where deck profilograph and planing is not required by specification. When rigid approach slab is utilized, include approach slab area only. Quantity based on area bound by bridge gutter lines, begin/end of bridge or begin/end approach slab (if not covered by asphalt wearing surface).

**Related Items**

- **Required**: SHTabQuant
- **Recommended**: COMP 700-050-01

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
- **Construction**: Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**

- **PPM Chapter**
- **Other**: SDG’s 4.2
- **Standards**
- **Specifications**
- **Prep & Doc Manual Chapter(s)**: 7, 13

---

**TRNS*PORT Category (DRAFT FIELD)**: 100 or 200 Structures or Roadway
Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Item</th>
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400- 8-AAA CLASS V CONCRETE

Unit CY; M3

Accuracy 10th of a Cubic Yard; 10th of a Cubic Meter

Plan Quantity? yes/no

Notes

Details Refer to 400- ALL for details on all classes of concrete

Related Items

Required

Recommended 415- 1- A

Forms

Design SHTabQuant

Construction Refer to Comp Book

Documentation

Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other Mass Concrete SDG's 3.9, Class and Admixtures SDG's 1.4.2, Cofferdams and Seals SDG's 3.7.

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. 400- 8-AAA CLASS V CONCRETE CY

AAA = Class V Applications
39 (Precast Segmental Superstructure)
40 (Precast Segmental Substructure)
106 (Microsilica Substructure)
107 (Microsilica Substructure-Mass)
239 (Low Shrink Deck) Material Only

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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Details and Structure: Items 400 to 499

Page 9 of 146
0400 8106  CONCRETE CLASS V, MICRO SILICA SUBSTRUCTURE  CY  T  1/1/2007  $4,873.00

0400 8107  CONC CLASS V, MICRO SILICA SUBSTRUCTURE MASS  CY  1/1/2007  $0.00

### 400- 9- BRIDGE DECK GROOVING AND PLANING- DECK THICKNESS 8.5" or GREATER

**Unit**  SY; M2  **Accuracy**  Square Yard; Square Meter  **PlanQuantity?**  yes

**Notes**

**Details**

Item intended for cases where deck profilograph, and planing is required by specification. When rigid approach slab is utilized, include approach slab area. Quantity based on area bound by bridge gutter lines, begin/end of bridge or begin/end approach slab (if not covered by asphalt wearing surface).

**Related Items**

**Required**  **Recommended**

**Forms**

**Design**  SHTabQuant  **Construction**

Refer to Comp Book

**Documentation**

**Design**

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor. Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**

PPM Chapter

Other  SDG’s 4.2

**Specifications**

**Prep & Doc Manual Chapter(s)**  7, 13

---

**TRNS*PORT Category (DRAFT FIELD):**  0100  Structures

**Status**

**Struct.**  400- 9-  **BRIDGE DECK GROOVING AND PLANING- DECK THICKNESS 8.5" or GREATER**

---

### 400- 16-AAA  Class VI Concrete

**Unit**  CY; M3  **Accuracy**  10th of a Cubic Yard; 10th PlanQuantity?

**of a Cubic Meter**

**Notes**

**Details**

Refer to 400- -ALL for details on all classes of concrete

**Related Items**

**Required**  **Recommended**

**Forms**

Design  415- 1- A
### Topic No. 600-000-002

**Basis of Estimates**

**2009 Edition**

**October 6, 2008**

---

**Standards**

Refer to 400-ALL for details on all classes of concrete specifications.

**Specifications**

Struct. 400-16-AAA Class VI Concrete CY

AAA = Application
- 22 (Superstructure Closure Joint)
- 25 (Mass- Substructure)
- 39 (Precast Segmental Superstructure)
- 42 (Substructure Self-Consolidating Concrete)
- 43 (Superstructure Self-Consolidating Concrete)

**Notes**

Plan Detail and/or Tech Spec Required

**References**

PPM Chapter

Other Standards

Refer to 400-ALL for details on all classes of concrete

**Prep & Doc Manual Chapter(s)**

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

**Status**

**Struct.** 400-16-AAA Class VI Concrete CY

AAA = Application
- 22 (Superstructure Closure Joint)
- 25 (Mass- Substructure)
- 39 (Precast Segmental Superstructure)
- 42 (Substructure Self-Consolidating Concrete)
- 43 (Superstructure Self-Consolidating Concrete)

**The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.**

<table>
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<tr>
<th>Item</th>
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**400-20-**

**GRINDING BRIDGE DECK - REHABILITATION ONLY**

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**Related Items**

**Required**

Forms Design

SHTabQuant

**Recommended**

Construction Design

COMP 700-050-01

Refer to Comp Book

**Documentation Design**

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

---

**Details and Structure: Items 400 to 499**

Page 11 of 146
**400-32**

**CONCRETE FOR JOINT REPAIR**

| Unit       | CY; M3 | Accuracy          | 10th of a Cubic Yard; 10th of a Cubic Meter | PlanQuantity? | yes |

**Notes**

Intended for rehabilitation or widening projects to repair or replace concrete deck at expansion joints. Include in Quantity Block in Plans.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Design</td>
<td>Construction</td>
</tr>
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<td>Doc</td>
<td>Design</td>
</tr>
<tr>
<td>Design</td>
<td>Construction</td>
</tr>
<tr>
<td>Documentation</td>
<td></td>
</tr>
<tr>
<td>Construction</td>
<td></td>
</tr>
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**References**

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Other</th>
</tr>
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<tbody>
<tr>
<td>SDG's 6.4</td>
<td></td>
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Plan Detail and/or Tech Spec Required

**Prep & Doc Manual Chapter(s)**

| 6, 7, 13 |

**TRNS*PORT Category (DRAFT FIELD):**

| 0100 | Structures |

**Status**

<table>
<thead>
<tr>
<th>Struct.</th>
</tr>
</thead>
<tbody>
<tr>
<td>400-32-</td>
</tr>
</tbody>
</table>

**Notes**

Estimates Support: Contact the State Structures Design Office before opening item.
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0400</td>
<td>CONCRETE FOR JOINT REPAIR</td>
<td>CY</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>9,231.11</td>
</tr>
</tbody>
</table>

### 400- 60- A CATHODIC PROTECTION- ELECTRICAL WORK

**Notes**

Intended for Electrical Work associated with Cathodic Protection. 3 pay items (power, conduit, and equipment, as described below) are needed for a complete electrical system. Use with either 400-142 Cathodic Protection (CP) of mass concrete productis , 455-81 CP for piles, or 457 items- CP for integral pile jackets. Contact the Materials Lab for assistance with using this item.

**Details**

AC or DC POWER SOURCE ASSEMBLY: Includes all work and materials for providing power to the Cathodic Protection System. For AC assemblies, this includes all costs associated with connection between system and external power source. For DC assemblies, includes solar panels, batteries, incidentals, and wiring necessary to provide power.

CONDUIT: Includes all conduit from power source assembly to end location(s), junction boxes, wiring, and all incidentals. Measure as the length of conduit from the power system, along the bridge, and down each pier to be protected.

EQUIPMENT & INSTRUMENTATION: Lump sum item to include all remaining items necessary for a complete system. Detail major equipment, by location, in the plans or Tech Specs.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

**Required**

- 400-142, 455-81, or 457 items.

**Recommended**

- SHTabQuantLS
- COMP 700-050-05

**Forms**

**Design**

- SHTabQuantLS

**Construction**

- Refer to Comp Book

**Documentation**

**Design**

- Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Construction**

- Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter

Other

Standards

Specifications

- Plan Detail and/or Tech Spec Required

**Prep & Doc Manual Chapter(s)**

**TRNS*PORT Category (DRAFT FIELD):**

0100 Structures

**Status**

**Struct.**

400- 60- A CATHODIC PROTECTION- ELECTRICAL WORK

A= Components (Select only 1 power source assembly; use with BOTH A= 3 and 4)
Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
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<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0400 60 1</td>
<td>CATHODIC PROTECTION - ELECTRICAL WORK, AC POWER SOURCE ASSEMBLY</td>
<td>LS</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$361,036.79</td>
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<tr>
<td>0400 60 3</td>
<td>CATHODIC PROTECTION - ELECTRICAL WORK, CONDUIT, WIRING, AND ACCESSORIES</td>
<td>LS</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$28.87</td>
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<tr>
<td>0400 60 4</td>
<td>CATHODIC PROTECTION - ELECTRICAL WORK, EQUIPMENT &amp; INSTRUMENTATION</td>
<td>LS</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$272,416.45</td>
</tr>
</tbody>
</table>

### 400- 72- PRECAST BULKHEAD PANELS

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>SF; M2</td>
<td>Square Foot; 10th of a Square Meter</td>
<td>yes</td>
</tr>
</tbody>
</table>

Notes

Details

Intended for precast panels used as part of a soldier pile wall system. Pay Item note recommended; coordinate with specifications. Add pay item note similar to concrete sheet piles (Spec. 455-9.4 and 455-12.7) to include cost of trenching, preformed holes in cost of precast panels. Include in Soldier Wall Quantity Block in Plans. May require specification modifications as follows: 455-5.15.2 and 455-5.15.3 Placement Tolerances (+/-1") and Batter Tolerances (1/8 in/ft)

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

Required

Forms

Design

SHTabQuant

Construction

Refer to Comp Book

Documentation

Design

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction

Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter

Other

SDG’s 3.12.9 and Figure 3-13.

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Details and Structure: Items 400 to 499
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0400</td>
<td>PRECAST BULKHEAD PANELS</td>
<td>SF</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$35.08</td>
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<tr>
<td>0400</td>
<td>DEWATERING FOR SPREAD FOOTINGS</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$5,250.00</td>
</tr>
<tr>
<td>400-95</td>
<td>COFFERDAM</td>
<td>EA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Required on all spread footing projects where dewatering is anticipated due to high water table. Include in Footing Quantity Block in Plans. Usually used with Pay Items 400-4-25, 400-2-25, 415-1-4. Include Pay Item 125-1 only when additional excavation is required below bottom of footing elevation.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Details and Structure: Items 400 to 499
Notes
Details
Intended to construct/dewater cofferdams. Cofferdams may be required to construct or demolish mud line footings located in the waterway. This pay item is not to be utilized when full containment structures are required due to special environmental turbidity requirements, or when a pier footing is located at the shoreline making dewatering difficult. Do not use for waterline or slightly submerged footings.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items
Required 400-3-20
Recommended

Forms
Design SHTabQuant COMP 700-050-03
Construction Refer to Comp Book

Documentation
Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References
PPM Chapter
Other SDG’s 3.7.

Standards
Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status
Struct. 400-95- A COFFERDAM EA

A =
1 (Bascule Pier)
2 (Control House)
3 (Special)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0400 95 1</td>
<td>COFFERDAM, BASCULE PIER</td>
<td>EA</td>
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<td>1/1/2007</td>
<td></td>
<td>$1,700,000.00</td>
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<tr>
<td>0400 95 3</td>
<td>COFFERDAM, SPECIAL</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$0.00</td>
</tr>
</tbody>
</table>

Details and Structure:

400-97- COATING CONCRETE SURFACES- REHAB

Unit LS/SF; LS/M2
Accuracy Lump Sum (Square Foot); PlanQuantity? yes Lump Sum (Square Meter)

Notes
Details
Intended on rehabilitation projects to apply coating systems onto existing concrete surfaces such as epoxy or bituminous protection coatings. Cost usually covers the labor. Material costs covered under separate pay item. Show location. Pay item note recommended. Do not use with Item 400-143.
For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
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</thead>
<tbody>
<tr>
<td><strong>Forms</strong></td>
<td><strong>Design</strong></td>
</tr>
<tr>
<td><strong>Construction</strong></td>
<td>Refer to Comp Book</td>
</tr>
</tbody>
</table>

**Documentation**

| Design | Use a quantity of 1, but calculations and documentation must be to the second unit of measure. Locate or define the scope of work involved on the plans. |
| Construction | Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances. |

**References**

- PPM Chapter
- Other
- Standards
- Specifications

**Plan Detail and/or Tech Spec Required**

**Prep & Doc Manual Chapter(s)**: 6, 13

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

**Status**

**Struct.** 400-97- COATING CONCRETE SURFACES-REHAB LS/SF

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
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<td>COATING CONCRETE SURFACES-REHAB</td>
<td>LS</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$0.82</td>
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</tbody>
</table>

**400-113- PRECAST BENT CAPS (END)**

**Unit** LF; M1  **Accuracy** Linear Foot; 10th of a Meter  **PlanQuantity?** yes

**Notes**

Intended for prefabricated end bent caps (furnish and install). Include in End Bent Quantity Block in Plans. Address cost of connection to piles and flowable fill (or similar) required to fill under finished cap.

Tech Spec or Plan note may be necessary to address connection to piles.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
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<tbody>
<tr>
<td><strong>Forms</strong></td>
<td><strong>Design</strong></td>
</tr>
<tr>
<td><strong>Construction</strong></td>
<td>Refer to Comp Book</td>
</tr>
</tbody>
</table>

**Documentation**

| Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor. |
### 400-113-
**PRECAST BENT CAPS (END)**

<table>
<thead>
<tr>
<th>Unit</th>
<th>LF; M1</th>
<th>Accuracy</th>
<th>Linear Foot; 10th of a Meter</th>
<th>Plan Quantity?</th>
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<tbody>
<tr>
<td>Notes</td>
<td></td>
<td></td>
<td></td>
<td>yes</td>
</tr>
</tbody>
</table>

**Details**

Intended for prefabricated bent caps (furnish and install). Include in Bent Cap Quantity Block in Plans. TSP or plan notes may be necessary to address connection to piles.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
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<tr>
<td>Design</td>
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<td>Construction</td>
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**Documentation**

<table>
<thead>
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<tr>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.</td>
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</tr>
<tr>
<td>Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.</td>
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**References**

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Other</th>
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<tbody>
<tr>
<td></td>
<td></td>
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<tr>
<td>Standards</td>
<td>Specifications</td>
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**Prep & Doc Manual Chapter(s)**

6, 13

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The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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400-114-
**PRECAST BENT CAPS (INT)**

<table>
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<th>Notes</th>
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</table>

**Details**

Intended for prefabricated bent caps (furnish and install). Include in Bent Cap Quantity Block in Plans. TSP or plan notes may be necessary to address connection to piles.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

<table>
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<tr>
<th>Required</th>
<th>Recommended</th>
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</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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</table>

**Documentation**

<table>
<thead>
<tr>
<th>Design</th>
<th>Construction</th>
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<tbody>
<tr>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.</td>
<td></td>
</tr>
<tr>
<td>Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.</td>
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</tr>
</tbody>
</table>

**References**

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<tr>
<th>PPM Chapter</th>
<th>Other</th>
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<td>Specifications</td>
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**Prep & Doc Manual Chapter(s)**

6, 13

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The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>400-128-</th>
<th>GROUTING PRECAST DECK PANELS (NON-SHRINK GROUT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit</td>
<td>LF; M1</td>
</tr>
<tr>
<td>Accuracy</td>
<td>Linear Foot; 10th of a Meter</td>
</tr>
<tr>
<td>PlanQuantity?</td>
<td>no</td>
</tr>
</tbody>
</table>

Notes

Details

Intended for grouting the keyways of precast deck panels for both new and rehabilitation projects. On rehabilitation projects, include pay item notes to address payment of the various work items involved.

TSP may be required on rehabilitation projects to address removal of existing asphalt overlay, removal and preparation of existing keyways, grouting of keyways, post-tensioning and new overlay requirements.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Required

Recommended

Design | SHTabQuant

Construction | Refer to Comp Book

Documentation

Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction | Record final quantity on the tabulation sheet (plans) or computation form (comp book).

Related Items

Forms

Design

Construction

PPM Chapter | Design

Other

Specifications

Prep & Doc Manual Chapter(s) | 6, 13

References

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. 400-128- GROUTING PRECAST DECK PANELS (NON-SHRINK GROUT) LF

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
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<tbody>
<tr>
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<td>GROUTING PRECAST DECK PANELS (NON-SHRINK GROUT)</td>
<td>LF</td>
<td>1/1/2007</td>
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<td></td>
<td>$0.00</td>
</tr>
</tbody>
</table>

400-134- EPOXY MATERIAL- STRUCTURES REHAB

Unit | GA; LI

Accuracy | Gallon; Liter

PlanQuantity? | no

Notes

Valid through 12-31-08; replaced by 411-1

Details

Intended on rehabilitation projects for epoxy material to coat existing concrete surfaces.

Cost of labor usually paid for under 400-97 or 400-135. Show location in plans. Pay item
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0400134</td>
<td>EPOXY MATERIAL - STRUCTURES REHAB</td>
<td>GA</td>
<td>T</td>
<td>1/1/2007</td>
<td>12/31/2008</td>
<td>$127.38</td>
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</table>

**400-135-**

**INJECT AND SEAL CRACKS - STRUCTURES REHAB**

**Unit** LF; M1  
**Accuracy** Linear Foot; 10th of a Meter  
**PlanQuantity?** no

**Notes**
Valid through 12-31-08; replaced by 411-2

**Details**
Intended for Rehabilitation Projects to Epoxy Inject and Seal Cracks in Existing Concrete Components. Item intended to Cover Labor. Item 400-134 Intended to cover material. Show locations w/ quantity block in plans.

**Related Items**
**Required** 400-134  
**Recommended**

**Forms**
**Design** SHTabQuant  
**Construction** COMP 700-050-03

**Documentation**
**Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.  
**Construction** Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**
PPM Chapter  
Other  
Standards  
Specifications  

**Prep & Doc Manual Chapter(s)** 6, 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures
### Struct. 400-135-
**INJECT AND SEAL CRACKS- STRUCTURES REHAB** LF

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>0400135</td>
<td>CRACKS INJECT &amp; SEAL-</td>
<td>LF</td>
<td>T</td>
<td>1/1/2007</td>
<td>12/31/2008</td>
<td></td>
<td>$13.97</td>
</tr>
</tbody>
</table>

### 400-136-
**EPOXY CONCRETE OVERLAY- STRUCTURES REHAB**

**Unit** SY; M²  
**Accuracy** Square Yard; Square Meter  
**PlanQuantity?** yes

**Notes**

*Used for rehabilitation of existing bridges. Item includes all costs for shotblasting deck, cleaning deck surface, testing cohesion, furnishing & installing epoxy overlay wearing surface. Contact State Structures Office for assistance.*

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>COMP 700-050-01</td>
</tr>
</tbody>
</table>

**Documentation**

| Design          | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor. |
| Construction    | Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances. |

**References**

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Other</th>
<th>Standards</th>
<th>Specifications</th>
</tr>
</thead>
</table>

**Prep & Doc Manual Chapter(s)**

*TRNS*PORT Category (DRAFT FIELD): 0100 Structures

**Status**

**Struct. 400-136-
**EPOXY CONCRETE OVERLAY- STRUCTURES REHAB** SY

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0400136</td>
<td>EPOXY CONCRETE OVERLAY-</td>
<td>SY</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$35.48</td>
</tr>
</tbody>
</table>

### 400-140-
**NEOPRENE PAD REPLACEMENT**
Unit EA Accuracy Each Plan Quantity? no

Notes
Details
Intended for rehabilitation and widening projects to replace existing damaged pads. Show locations w/ quantity block in plans. Include pay item note to include cost of neoprene pads, jacking bridge, disposal of old pads, and all other labor and materials required to replace existing bearing incidental to cost of this item.
For Composite pads, refer to pay item 400-417.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items
Required Recommended
Forms
Design SHTabQuant COMP 700-050-03
Construction Refer to Comp Book

Documentation
Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References
PPM Chapter SDG’s 6.5
Other Index No. 20500, 20501
Specifications Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status
Struct. 400-140- A NEOPRENE PAD REPLACEMENT EA

A =
1 (Bent / Pier)
2 (Abutment)
3 (Box Pier)
4 (Trestle Pier)
5 (V - Pier)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tr>
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<td>NEOPRENE PAD REPLACEMENT, BENT/PIER</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$2,862.38</td>
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<tr>
<td>0400140 2</td>
<td>NEOPRENE PAD REPLACEMENT, ABUTMENT</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$1,184.33</td>
</tr>
</tbody>
</table>

400-142- A CATHODIC PROTECTION SYSTEM

Unit SF; M2 Accuracy Square Foot; 10th of a Square Meter Plan Quantity? no

Notes

Details and Structure: Items 400 to 499
Intended for rehabilitation projects when galvanic or impressed current cathodic systems are used for mass concrete or structural components. Contact State Materials Office, Corrosion Lab for assistance in use of this item. Show locations in plans w/ quantity block.

Use Item 400-60 for Electrical Work associated with this item.

DO NOT USE this item for Pile or Pile Jacket Cathodic Protection. See 455-81 (pile) or 457-71 (pile jacket) for other Cathodic Protection items.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Required** 400-60- A

**Recommended**

**Related Items**

**Forms**

**Design** SHTabQuant

**Construction** Refer to Comp Book

**Documentation**

**Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Construction** Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

**Prep & Doc Manual Chapter(s)** 6, 7, 13

**TRNS**PORT Category (DRAFT FIELD): 0100 Structures

**Status**

400-142- A CATHODIC PROTECTION SYSTEM SF

A =

3 (Zinc Aluminum Spray)

4 (Zinc Aluminum Sheets)

7 (Titanium Mesh) effective 7/1/06

8 (Titanium Bars) effective 7/1/06

9 (Other) effective 7/1/06

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0400142 3</td>
<td>CATHODIC PROTECTION SYSTEM, ZINC ALUMINUM SPRAY</td>
<td>SF</td>
<td>T</td>
<td>1/1/2007</td>
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<td>$21.88</td>
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<tr>
<td>0400142 4</td>
<td>CATHODIC PROTECTION SYSTEM, ZINC ALUMINUM SHEETS</td>
<td>SF</td>
<td>T</td>
<td>1/1/2007</td>
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<td>$322.50</td>
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<tr>
<td>0400142 7</td>
<td>CATHODIC PROTECTION SYSTEM, TITANIUM MESH</td>
<td>SF</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$51.35</td>
</tr>
</tbody>
</table>

**400-143-** CLEANING AND COATING CONCRETE SURFACES, CLASS 5

Unit SF; M2

**Accuracy** Square Foot; 10th of a

**PlanQuantity?** yes
This item is used on bridge widening jobs for applying a class 5 finish coating to existing concrete surfaces or where existing bridges/walls within the limits of a project require a class 5 finish coating. Show locations in plans w/ quantity block.

### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
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</tr>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
<tr>
<td>Documentation</td>
<td>Design</td>
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<tr>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.</td>
<td></td>
</tr>
<tr>
<td>Construction</td>
<td>Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.</td>
</tr>
</tbody>
</table>

### Notes

- Use a quantity of 1, but calculations and documentation must be to the second unit of measure. Locate or define the scope of work involved on the plans.

### References

- PPM Chapter
- Other
- Standards
- Specifications

**PPM Chapter**

**Design**

**Construction**

### Status

**Struct.  400-143-**

**CLEANING AND COATING CONCRETE SURFACES, CLASS 5**

**SF**

### The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<tr>
<th>Item</th>
<th>Description</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0400143</td>
<td>CLEANING &amp; COATING CONCRETE SURFACE, CLASS 5</td>
<td>SF</td>
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### Related Items

**Forms**

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<td>Construction</td>
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**Documentation**

<table>
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<tr>
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</thead>
<tbody>
<tr>
<td>Design</td>
<td>Use a quantity of 1, but calculations and documentation must be to the second unit of measure. Locate or define the scope of work involved on the plans.</td>
</tr>
</tbody>
</table>
Construction

Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter
Other
Standards
Specifications

Plan Detail and/or Tech Spec Required
Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. 400-145- A CLEANING CONCRETE SURFACE LS/SF

A = location
Blank (Above Water)
1 (Underwater)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
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<tbody>
<tr>
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<td>CLEANING CONCRETE SURFACE</td>
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<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$0.85</td>
</tr>
</tbody>
</table>

400-147- COMPOSITE NEOPRENE PADS

Unit CF; M3
Accuracy 10th of a Cubic Foot; 100th of a Cubic Meter
PlanQuantity? no

Notes

Details

Intended for composite (steel reinforced) neoprene bearing pads for bridges. Include cost of plain neoprene bearing pads in cost of concrete superstructure component. Add pay item note for this case. Show locations in plans w/ quantity block. For replacement of neoprene pads, refer to pay item 400-140.

Related Items

Required Recommended
Forms
Design SHTabQuant COMP 700-050-04
Construction 700-050-56

Documentation

Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter
Other SDG’s 6.5
Standards Index No. 20500, 20501
Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. 400-147- COMPOSITE NEOPRENE PADS CF
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### Item Description

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<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<td>COMPOSITE NEOPRENE PADS</td>
<td>CF</td>
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<td></td>
<td>$1,051.02</td>
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</table>

### 400-153- NON SHRINK GROUT- MISCELLANEOUS

**Unit**: CF; M3  
**Accuracy**: 10th of a Cubic Foot; 100th of a Cubic Meter  
**PlanQuantity?**: no

**Notes**

For rehabilitation/widening projects only. Use 10.0 CF (0.03 M3) as a minimum quantity. Show locations in plans w/ quantity block. Include pay item note in plans.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

<table>
<thead>
<tr>
<th>Form</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-04</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
<td></td>
</tr>
</tbody>
</table>

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- **PPM Chapter**: 6, 7, 13
- **Other Standards**:  
- **Specifications**: Plan Detail and/or Tech Spec Required

**Prep & Doc Manual Chapter(s)**: 6, 7, 13

**TRNS**PORT Category (DRAFT FIELD): 0100 Structures

### Status

**Struct.** 400-153- NON SHRINK GROUT- MISCELLANEOUS CF

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0400153</td>
<td>NON SHRINK GROUT, F&amp;I, MISCELLANEOUS- STRUCTURES REHAB</td>
<td>CF</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$166.97</td>
</tr>
</tbody>
</table>

### 401-70- A RESTORE SPALLED AREAS

**Unit**: CF; M3  
**Accuracy**: 10th of a Cubic Foot; 100th of a Cubic Meter  
**PlanQuantity?**: no

**Notes**

Used on rehabilitation projects to cover costs of patching existing concrete spalls. Show
locations in plans w/ quantity block. Include pay item note in plans. Cost includes cost of preparation, labor and material of concrete patch. Use 10.0 CF (1.00 M3) as a minimum quantity.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>COMP 700-050-04</td>
</tr>
<tr>
<td>Documentation</td>
<td>Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
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</table>

**References**

PPM Chapter  
Other  
Standards  
Specifications

**Plan Detail and/or Tech Spec Required**

**Prep & Doc Manual Chapter(s)** 6, 7, 13

---

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

**Status**

**Struct.** 401-70- A  
**RESTORE SPALLED AREAS**  

A =

1 (Epoxy)  
2 (Latex Modified Mortar - Styrene-Butadiene)  
3 (Latex Modified Mortar - Acrylic)  
4 (Portland Cement Grout)  
5 (Contractors Option)  
6 (Thermosetting Polymer Concrete)  
Blank (Gunite)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
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<td>RESTORE SPALLED AREAS, GUNITE</td>
<td>CF</td>
<td>T</td>
<td>1/1/2007</td>
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<tr>
<td>0401 70 1</td>
<td>RESTORE SPALLED AREAS, EPOXY</td>
<td>CF</td>
<td>T</td>
<td>1/1/2007</td>
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<td>$667.10</td>
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<tr>
<td>0401 70 2</td>
<td>SPALLED AREAS RESTORE, LATEX MODIFIED MOTAR, STYRENE-BUTADIENE</td>
<td>CF</td>
<td>T</td>
<td>1/1/2007</td>
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<td>$507.50</td>
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<tr>
<td>0401 70 3</td>
<td>SPALLED AREAS RESTORE, LATEX MODIFIED MOTAR, ACRYLIC</td>
<td>CF</td>
<td>T</td>
<td>1/1/2007</td>
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<td>$550.00</td>
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<td>0401 70 4</td>
<td>RESTORE SPALLED AREAS, PORTLAND CEMENT GROUT</td>
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<td>$555.44</td>
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<td>0401 70 5</td>
<td>RESTORE SPALLED AREAS, CONTRACTORS OPTION</td>
<td>CF</td>
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<td>$544.92</td>
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</table>
### 405-70- A  LATEX MODIFIED PORTLAND CEMENT CONCRETE

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>CF; M3</td>
<td>10th of a Cubic Foot; 100th of a Cubic Meter</td>
<td>no</td>
</tr>
</tbody>
</table>

**Notes**

Intended for thin deck overlays. Show locations in plans w/ quantity block. Include pay item note in plans. Cost includes cost of preparation, labor and material of latex modified concrete overlay.

Use 10.0 CF (1.00 M3) as a minimum quantity.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

**Required**
- Design: SHTabQuant
- Construction: Refer to Comp Book

**Recommended**
- Design: COMP 700-050-04
- Construction: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- PPM Chapter
- Other
- Standards
- Specifications

**Prep & Doc Manual Chapter(s)**: 6, 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0100  Structures

### Status

**Struct.** 405-70- A  LATEX MODIFIED PORTLAND CEMENT CONCRETE  CF

A =
1 (Type I Cement)
2 (Type III Cement)

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0405 70 1</td>
<td>LATEX MODIFIED PORTLAND CEMENT CONCRETE, TYPE I</td>
<td>CF</td>
<td>T</td>
<td>1/1/2007</td>
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<tr>
<td>0405 70 2</td>
<td>LATEX MODIFIED PORTLAND CEMENT CONC, TYPE III</td>
<td>CF</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$483.33</td>
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</table>

### 407-1- AB  PRECAST THREE SIDED CULVERT

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>LF; M1</td>
<td>Linear Foot; 10th of a Meter</td>
<td>yes</td>
</tr>
</tbody>
</table>

**Details and Structure:** Items 400 to 499
Per specifications, 3 sided box culvers are not an equivalent substitution for Precast Concrete Box Culverts. Refer to PPM for selection and design criteria.

### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
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### Forms

<table>
<thead>
<tr>
<th>Design</th>
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<tr>
<td>SBDRST</td>
<td>Refer to Comp Book</td>
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### Documentation

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</thead>
<tbody>
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<td></td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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</tbody>
</table>

### References

- **PPM Chapter**: Vol 1, Chapter 33
- **Other**
- **Standards**
- **Specifications**

### Notes

- Details
- Structure: Items 400 to 499

---

**TRNS*PORT Category (DRAFT FIELD):** 100 or 200 Structures or Roadway

### Status

**407-1-AB** PRECAST THREE SIDED CULVERT LF

- **A** = Span (Total width of culvert when multiple barrels)
  - 1 (up to 20 ft)
  - 2 (20-29 ft)
  - 3 (30-39 ft)
  - 4 (40-49 ft)
  - 5 (50 ft or greater)
- **B** = Height
  - 1 (up to 10 ft)
  - 2 (10 ft or greater)

---

**411-1-** EPOXY MATERIAL

- **Unit**: GA; LI
- **Accuracy**: Gallon; Liter
- **PlanQuantity?**: no

### Notes

- Effective 1/2009 letting; replaces 400-134. Refer to Estimates Bulletin 08-02.
- Intended for use on rehabilitation projects for epoxy material to cover existing concrete surfaces. Cost of labor paid under 411-2. Show location(s) in the plans.

### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
</table>

### Forms

<table>
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<tr>
<th>Design</th>
<th>Construction</th>
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### Documentation

<table>
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<th>Design</th>
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</table>

### References

- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

---

Details and Structure: Items 400 to 499
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### Item 411-1 - EPOXY MATERIAL

**Description:** EPOXY MATERIAL - STRUCTURES REHAB

**Unit:** GA

**TSP/Detail:** T

**Valid Date:** 1/1/2009

**Obsolete Date:**

**Ref:**

**Price:** $142.38

---

**411-2 - INJECT AND SEAL CRACK**

**Unit:** LF; M1

**Accuracy:** Linear Foot; 10th of a Meter

**PlanQuantity?** no

**Notes:** Effective 1/2009 letting; replaces 400-135. Refer to Estimates Bulletin 08-02.

**Details:** Intended for use on rehabilitation projects for epoxy material to cover existing concrete surfaces. Cost of epoxy material paid under 411-1. Show location(s) in the plans.

---

**413-149 - PENETRANT SEALER**

**Unit:** GA; LI

**Accuracy:** Gallon; Liter

**PlanQuantity?**

**Notes:** NO SEPARATE PAYMENT FOR NEW, PRECAST ITEMS.

**Details:** Pay Item for Rehabilitation jobs only. Intended to cover material cost of penetrant sealer. Pay Item 413-154 to cover labor costs. Show locations in plans w/ quantity block.

**Related Items:**

**Required:** 413-154

**Recommended:**

**Forms:**

**Design:** SHTabQuant

**COMP 700-050-06**
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<tr>
<th>Item</th>
<th>Description</th>
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413-151- METHACRYLATE MONOMER

Details

For use on rehabilitation projects to seal existing deck cracks. Contact State Materials (Gainesville Corrosion) Lab for assistance with Specs. Intended to cover material cost of methacrylate monomer. Pay Item 413-154 to cover labor costs. Show locations in plans w/ quantity block.

Related Items

Required 413-154
Recommended

Forms

Design SHTabQuant
Construction 700-050-56

Documentation

Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter
Other
Standards
Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. 413-151- METHACRYLATE MONOMER GA

Notes

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Record final quantity on the tabulation sheet (plans) or computation form (comp book).
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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### 413-154-
**CLEANING AND SEALING CONCRETE SURFACES: PENETRANT SEALER OR METHACRYLATES**

**Unit**: SF; M2  
**Accuracy**: Square Foot; 10th of a Square Meter

**Notes**
NO SEPARATE PAYMENT for prestressed, precast items.

REFER TO SECTION 400 for other coatings. Intended to cover labor cost of penetrant sealer or Methacrylates. Pay Item 413-149 or 413-151 to cover material costs. Show locations in plans w/ quantity block.

**Related Items**
Required: 413-149 or 413-151  
Recommended

**Forms**
Design: SHTabQuant  
Construction: Refer to Comp Book

**Documentation**
Design: Construction  
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**
PPM Chapter
Other
Standards
Specifications
Prep & Doc Manual Chapter(s)

**TRNS*PORT Category (DRAFT FIELD):** 100 or 200 Structures or Roadway

**Struct.** 413-154-
**CLEANING AND SEALING CONCRETE SURFACES: PENETRANT SEALER OR METHACRYLATES**

**Notes**

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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### 415- 1- A
**REINFORCING STEEL**

**Unit**: LB; KG  
**Accuracy**: Pound; Kilogram

**Notes**

**Details**
Show locations in plans w/ quantity block by component (when component is constructed in phases break down quantity by phase). Include complete bar lists in plans.

APPROACH SLABS: Item No. 415- 1- 9 (2415- 1- 9) to be used with Item No. 400- 2-10 (2400- 2- 10).

**Related Items**
Required  
Recommended
Standards

ENDWALLS: 295
MISC: Index 280 for guard at pipe end

Specifications

Struct.  415-  1-  A  REINFORCING STEEL  LB

A =
1 (Roadway)
3 (Retaining Wall)
4 (Superstructure)
5 (Substructure)
6 (Miscellaneous)
8 (Bulkhead)
9 (Approach Slabs)
13 (Steps)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Item</th>
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415-  2-  A  REINFORCING STEEL- STAINLESS

Unit  LB; KG  Accuracy  Pound; Kilogram  PlanQuantity?  no

Notes

Coordinate the use of Stainless Steel with the State Structures Office.

Details and Structure: Items 400 to 499
Intended for stainless steel or stainless steel clad reinforcing. Show locations in plans w/ quantity block. Include bar lists.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

### Related Items

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### References

- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**

**Plan Detail and/or Tech Spec Required**

**Prep & Doc Manual Chapter(s)**: 7, 13

---

**TRNS*PORT Category (DRAFT FIELD):** 100 or 200 Structures or Roadway

**Struct.** 415-2- A

**REINFORCING STEEL- STAINLESS**

A =

1 (Roadway)
3 (Retaining Wall)
4 (Superstructure)
5 (Substructure)
6 (Miscellaneous)
7 (Sound Barrier Wall)
8 (Bulkhead)
9 (Approach Slabs)

### Notes

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<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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**425-1-AAB INLETS**

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**Notes**

"Partial" is used when an existing structure is to be modified.
"Modified" is used when the standard structure on new construction is modified.
Modification of the Standard Index Drawing by adding weirs, notches, skimmers, and/or a change to dimensions and reinforcement, are to be detailed in the plans.
"Special" is not limited to any particular inlet type. If a designer has a need for something
other than an inlet covered by the standard indexes, it is regarded as special (as in special design). Special Designs require signed and sealed drawings to be included in the plans.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

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<th>Related Items</th>
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**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

**Struct.** 425-1-AAB INLETS EA

AA =
20 (Curb Type 9)
21 (Curb Type 10)
31 (Curb Type P-1) B not 3, 4, 7, or 8
32 (Curb Type P-2) B not 3, 4, 7, or 8
33 (Curb Type P-3) B not 3, 4, 7, or 8
34 (Curb Type P-4) B not 3, 4, 7, or 8
35 (Curb Type P-5) B not 3, 4, 7, or 8
36 (Curb Type P-6) B not 3, 4, 7, or 8
41 (Curb Type J-1) B not 3, 4, 7, or 8
42 (Curb Type J-2) B not 3, 4, 7, or 8
43 (Curb Type J-3) B not 3, 4, 7, or 8
44 (Curb Type J-4) B not 3, 4, 7, or 8
45 (Curb Type J-5) B not 3, 4, 7, or 8
46 (Curb Type J-6) B not 3, 4, 7, or 8
47 (Curb Type 7)
48 (Curb Type 8)
50 (Dt Bot Type A)
51 (Dt Bot Type B)
52 (Dt Bot Type C)
53 (Dt Bot Type C Mod) B not 9
54 (Dt Bot Type D)
55 (Dt Bot Type E)
56 (Dt Bot Type F)
57 (Dt Bot Type G)
58 (Dt Bot Type H)
59 (Dt Bot Type I)
60 (Dt Bot Type J)
61 (Dt Bot Type K)
70 (Gutter Type S)
71 (Gutter Type V)
72 (Gutter Type S Mod) B not 9
80 (Med Barrier Type 1)
81 (Med Barrier Type 2)
82 (Med Barrier Spec Type 1)
83 (Med Barrier Spec Type 2)
84 (Med Barrier Type 3)
85 (Med Barrier Type 4)
86 (Med Barrier Type 5)
88 (Barrier Wall, Rigid, Curb & Gutter)
89 (Barrier Wall)
90 (Special) B not 7 or 8*
91 (Closed Flume) B= 0

B =
1 (<= 10')
2 (> 10')
3 (J Bot, < 10') (Standard Index 201)
4 (J Bot, > 10') (Standard Index 201)
5 (Partial)
7 (J Bottom, <10', Special)
8 (J Bottom, >10', Special)
9 (Modify)
0 (N/A) only for A=91

Notes

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<table>
<thead>
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<th>Item</th>
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October 6, 2008

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425- 2-AAB MANHOLES

Unit | EA | Accuracy | Each | PlanQuantity? | no

Notes
The designer should consider calling for a ring and cover where routine cleanout and inspection is anticipated, such as a French Drain.

Details

Related Items

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Documentation

Design
Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter
Other
Standards
Index No. 200, 201
Specifications

Prep & Doc Manual Chapter(s)
7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. 425- 2-AAB MANHOLES EA

AA =
4 (P-7)
6 (P-8)
7 (J-7)
9 (J-8)
10 (Special) Plan Detail and/or Tech Spec required

B =
1 ( <= 10') Refer to Index 201
2 (> 10') " " " "
3 (Partial)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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**425- 3-AAB  JUNCTION BOX (DRAINAGE)**

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**Notes**

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

**Required**

- **Design**: SBDRST
- **Construction**: Refer to Comp Book

**Recommended**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- **PPM Chapter**
- **Other**
- **Standards**: Index No. 200, 201
- **Specifications**

*Selected Items may require Tech Spec and/or Plan Detail

**Prep & Doc Manual Chapter(s)**: 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

**Struct.** 425- 3-AAB  JUNCTION BOX (DRAINAGE)  EA

AA =
  4 (P-7)
  6 (J-7)
  8 (Special)*
  9 (Utility)
  10 (Utility, Modify)
  11 (Utility, Remove)

B =
  1 ( <= 10')  Refer to Index 201
  2 ( > 10')    "    "
  3 (Partial)

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0425 3 41</td>
<td>JUNCTION BOX, DRAINAGE, P-7, &lt;10'</td>
<td>EA</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$3,419.37</td>
</tr>
<tr>
<td>0425 3 42</td>
<td>JUNCTION BOXES, P-7, &gt;10'</td>
<td>EA</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$8,000.00</td>
</tr>
<tr>
<td>0425 3 43</td>
<td>JUNCTION BOX, DRAINAGE, P-7, PARTIAL</td>
<td>EA</td>
<td></td>
<td>1/1/2007</td>
<td></td>
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<td>$2,569.43</td>
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<tr>
<td>0425 3 61</td>
<td>JUNCTION BOXES, J-7, &lt;10'</td>
<td>EA</td>
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<td>1/1/2007</td>
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<td>$24,100.00</td>
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<tr>
<td>0425 3 63</td>
<td>JUNCTION BOXES, DRAINAGE, J-7, PARTIAL</td>
<td>EA</td>
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<td>1/1/2007</td>
<td></td>
<td></td>
<td>$2,300.64</td>
</tr>
<tr>
<td>0425 3 81</td>
<td>JUNCTION BOX, DRAINAGE, SPECIAL, &lt; 10'</td>
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<td></td>
<td>1/1/2007</td>
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<td>$5,000.00</td>
</tr>
<tr>
<td>0425 3 82</td>
<td>JUNCTION BOX, DRAINAGE, SPECIAL, &gt; 10'</td>
<td>EA</td>
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<td></td>
<td></td>
<td>$8,000.00</td>
</tr>
<tr>
<td>0425 3 83</td>
<td>JUNCTION BOX, DRAINAGE, SPECIAL, PARTIAL</td>
<td>EA</td>
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<td></td>
<td></td>
<td>$1,288.44</td>
</tr>
<tr>
<td>0425 3 91</td>
<td>JUNCTION BOX, DRAINAGE, UTILITY, &lt; 10'</td>
<td>EA</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$5,000.00</td>
</tr>
</tbody>
</table>

425- 4- **INLET- ADJUST**

**Notes**

Consists of changing the vertical placement of an existing inlet so that it will conform to the finished grade as designated in the plans.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SBDRST</td>
</tr>
<tr>
<td>Construction</td>
<td>COMP 700-050-03</td>
</tr>
</tbody>
</table>

**Documentation**

<table>
<thead>
<tr>
<th>Design</th>
<th>Construction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
</tbody>
</table>

**References**

PPM Chapter

Standards

Specifications

Index No. 200, 201, 210

Prep & Doc Manual Chapter(s) 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

Struct. 425- 4- INLET- ADJUST EA

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0425 4</td>
<td>INLETS, ADJUST</td>
<td>EA</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$1,735.70</td>
</tr>
</tbody>
</table>

425- 5- A **MANHOLES- ADJUST**

**Notes**

Details and Structure: Items 400 to 499
Consists of changing the vertical placement of an existing manhole so that it will conform to the finished grade as designated in the plans.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SBDRST</td>
</tr>
<tr>
<td>Construction</td>
<td>COMP 700-050-03</td>
</tr>
</tbody>
</table>

**Documentation**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
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</thead>
<tbody>
<tr>
<td>Design</td>
<td>Refer to Comp Book</td>
</tr>
<tr>
<td>Construction</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
</tr>
<tr>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
</tbody>
</table>

**Notes**

A = Blank (Standard)
1 (Utilities)

**Related Items**

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Design</th>
<th>Construction</th>
</tr>
</thead>
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<tr>
<td>Other</td>
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<tr>
<td>Standards</td>
<td>Index No. 200, 201</td>
<td></td>
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<td>Specifications</td>
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<tr>
<td>Prep &amp; Doc Manual Chapter(s)</td>
<td>7, 13</td>
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</tr>
</tbody>
</table>

**References**

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

**Struct.** 425- 5- A MANHOLE- ADJUST EA

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0425 5</td>
<td>MANHOLE, ADJUST</td>
<td>EA</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$540.15</td>
</tr>
<tr>
<td>0425 5 1</td>
<td>MANHOLE, ADJUST, UTILITIES</td>
<td>EA</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$668.91</td>
</tr>
</tbody>
</table>

**425- 6- VALVE BOX- ADJUST**

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA</td>
<td>Each</td>
<td>no</td>
</tr>
</tbody>
</table>

**Notes**

**Related Items**

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<thead>
<tr>
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<th>Recommended</th>
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</thead>
<tbody>
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<td>SBDRST</td>
</tr>
<tr>
<td>Construction</td>
<td>COMP 700-050-03</td>
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</table>

**Documentation**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
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</thead>
<tbody>
<tr>
<td>Design</td>
<td>Refer to Comp Book</td>
</tr>
<tr>
<td>Construction</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
</tr>
<tr>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
</tbody>
</table>

**References**

**PPM Chapter**

**Other**

**Standards**

**Specifications**

**Prep & Doc Manual Chapter(s) | 7, 13**

**Details and Structure: Items 400 to 499**
### 425- 6- VALVE BOX- ADJUST EA

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>Ref</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0425 6</td>
<td>VALVE BOXES, ADJUST</td>
<td>EA</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$308.45</td>
</tr>
</tbody>
</table>

**Status**

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

#### 425- 8- DRAINAGE STRUCTURES, MISCELLANEOUS- ADJUST EA

**Notes**

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA</td>
<td>Each</td>
<td>no</td>
</tr>
</tbody>
</table>

**Details**

**Form**

- **Required**
  - **Design**
    - SBDRST
  - **Construction**
    - Refer to Comp Book

**Documentation**

- **Design**
  - Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
  - Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- PPM Chapter
- Other
- Standards
- Specifications
- Prep & Doc Manual Chapter(s) 7, 13

**Status**

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

#### 425- 10- YARD DRAIN

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>Ref</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0425 8</td>
<td>DRAINAGE STRUCTURES, MISCELLANEOUS, ADJUST</td>
<td>EA</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$815.67</td>
</tr>
</tbody>
</table>

**Details**

For use outside of the R/W. Refer to Design Standard for details.

**Related Items**

- **Required**
  - **Design**
    - SBDRST
  - **Construction**
    - Refer to Comp Book

**Documentation**

- **Design**
  - Locate in plans. Summarize quantities by location on tabulation of quantities

---

**Details and Structure:** Items 400 to 499
sheet in the plans, or detail calculations in the computation book.

**Construction**

Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References

- **PPM Chapter**
- **Other**
- **Standards** Index No. 282
- **Specifications**

#### Prep & Doc Manual Chapter(s) 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

## Status

### Struct. 425- 10-

**YARD DRAIN**

**EA**

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0425 10</td>
<td>YARD DRAIN</td>
<td>EA</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$1,658.50</td>
</tr>
</tbody>
</table>

### Details and Structure: Items 400 to 499
425- 71-  INLETS RELOCATION

| Unit   | EA     | Accuracy | Each | PlanQuantity? | no |

**Notes**

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Details**

**Related Items**

**Required**

Design: SBDRST

**Recommended**

Design: COMP 700-050-03

**Forms**

Design: Refer to Comp Book

**Documentation**

Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

---

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

Struct. 425- 71- INLETS RELOCATION EA

**Notes**

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<th>TSP/Detail</th>
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<th>Obsolete Date</th>
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<tbody>
<tr>
<td>0425 71</td>
<td>INLETS RELOCATING</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$5,000.00</td>
</tr>
</tbody>
</table>

---

425- 74- A  MANHOLES AND INLETS, CLEANING & SEALING

| Unit   | EA     | Accuracy | Each | PlanQuantity? | no |

**Notes**

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Details**

**Related Items**

**Required**

Design: SBDRST

**Recommended**

Design: COMP 700-050-03

**Forms**

Design: Refer to Comp Book

**Documentation**

Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).
Plan Detail and/or Tech Spec Required
Prep & Doc Manual Chapter(s) 7, 13

Standard Specifications

Struct. 425-78- INLET CAP, PRECAST EA

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0425 74 1</td>
<td>MANHOLES &amp; INLETS CLEANING &amp; SEALING, &lt;10'</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
<td>$774.86</td>
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</tr>
<tr>
<td>0425 74 2</td>
<td>MANHOLES &amp; INLETS CLEANING &amp; SEALING, &gt;10'</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
<td>$2,898.75</td>
<td></td>
</tr>
</tbody>
</table>

Details

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Record final quantity on the tabulation sheet (plans) or computation form (comp book).

Related Items

Forms

Design

SBDRST

COMP 700-050-03

Construction

Refer to Comp Book

Documentation

Design

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction

Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Index No. 200, 201, 280

Specifications

Plan Detail and/or Tech Spec Required
Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. 425-78- INLET CAP, PRECAST EA

Notes
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0425 78</td>
<td>INLET CAP, PRECAST</td>
<td>EA</td>
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<td>1/1/2007</td>
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</tbody>
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### 425-82- REPLACE GRATE

<table>
<thead>
<tr>
<th>Unit</th>
<th>EA</th>
<th>Accuracy</th>
<th>Each</th>
<th>PlanQuantity?</th>
<th>no</th>
</tr>
</thead>
</table>

**Notes**

Payment includes "...new grates, and removing and stockpiling existing grates", per specification.

**Details**

Required

Design: SBDRST

Recommended

Design: COMP 700-050-03

Construction: Refer to Comp Book

**Related Items**

**Forms**

Design

Construction

**Documentation**

Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s): 6, 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

Struct.  425-82-  REPLACE GRATE

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0425 82</td>
<td>GRATE REPLACEMENT</td>
<td>EA</td>
<td></td>
<td>1/1/2007</td>
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<td>$805.93</td>
</tr>
</tbody>
</table>

### 430-94- AA DESILT PIPE

<table>
<thead>
<tr>
<th>Unit</th>
<th>LF; M1</th>
<th>Accuracy</th>
<th>Linear Foot; 10th of a Meter</th>
<th>PlanQuantity?</th>
<th>no</th>
</tr>
</thead>
</table>

**Notes**

Effective January 2007 letting; replaces 430-94A-BB

**Details**

Includes furnishing equipment and labor necessary to desilt the pipe, and also includes disposing of all silt and debris removed during the desilting operation. Summarize on plans by pipe location, diameter (or equivalent round diameter), and length to be desilted.

**Related Items**

**Forms**

Design

Construction: Refer to Comp Book

**Documentation**

Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).
**Stand. 430-94-AA DESILT PIPE LF**

AA = Pipe Diameter
- 1 (0 to 24")
- 2 (25-36")
- 3 (37-48")
- 4 (49-60")
- 5 (61" or greater)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0430 94 1</td>
<td>DESILTING PIPE, 0 - 24&quot;</td>
<td>LF</td>
<td>1/1/2007</td>
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<td>$6.25</td>
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<tr>
<td>0430 94 2</td>
<td>DESILTING PIPE, 25 - 36&quot;</td>
<td>LF</td>
<td>1/1/2007</td>
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<td>$11.06</td>
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</tr>
<tr>
<td>0430 94 3</td>
<td>DESILTING PIPE, 37 - 48&quot;</td>
<td>LF</td>
<td>1/1/2007</td>
<td></td>
<td>$15.97</td>
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</tr>
<tr>
<td>0430 94 4</td>
<td>DESILTING PIPE, 49 - 60&quot;</td>
<td>LF</td>
<td>1/1/2007</td>
<td></td>
<td>$15.89</td>
<td></td>
</tr>
<tr>
<td>0430 94 5</td>
<td>DESILTING PIPE, 61&quot; OR GREATER</td>
<td>LF</td>
<td>1/1/2007</td>
<td></td>
<td>$20.19</td>
<td></td>
</tr>
</tbody>
</table>

**430-150-ABB CAST IRON SOIL PIPE**

**Unit** LF; M1  
**Accuracy** Linear Foot; 10th of a Meter  
**Plan Quantity?** yes

**Notes**  
Inactive Structure; verify applicable standard index

to be used in accordance with Index 282 for back of sidewalk drainage only.

**Related Items**

<table>
<thead>
<tr>
<th>Forms</th>
<th>Required</th>
<th>Recommended</th>
</tr>
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<tbody>
<tr>
<td>Design</td>
<td>SBDRST</td>
<td>COMP 700-050-03</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Documentation</th>
<th>Design</th>
<th>Construction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.</td>
<td></td>
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**References**

PPM Chapter
Other

**Standards**  
Index No. 282

**Specifications**

Prep & Doc Manual Chapter(s) 6, 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**  
Inactive Structure
<table>
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<th>Struct.</th>
<th>430-150-ABB</th>
<th>CAST IRON SOIL PIPE</th>
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**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*

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<tr>
<td><strong>PlanQuantity?</strong></td>
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**Notes**

*Selected items valid through 6-30-08. See pay item structure.*

**Details**

Show application, size, and material with class/gage/corrugation on the contract plans. Refer to Index 205 for valid sizes, class/gage/corrugation. For pipe other than round (elliptical concrete and metal pipe arch) show actual size, class/gage/corrugation shown on standard index 205. Use equivalent round pipe size for payment.

**Related Items**

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<tr>
<th>Required</th>
<th>Recommended</th>
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<td>Forms</td>
<td>Design SBSPMS; SBSDMES</td>
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<tr>
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<td>Construction Refer to Comp Book</td>
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<tr>
<td>Documentation</td>
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<td>Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.</td>
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**References**

<table>
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<tr>
<th>PPM Chapter</th>
<th>Other Drainage Manual</th>
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**Prep & Doc Manual Chapter(s)**

6, 7, 13

**TRNS*PORT Category (DRAFT FIELD):**

0200 Roadway

**Status**

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<td>03 (37 to 48&quot;)</td>
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0430175204 PIPE CULVERT, OPT MATERIAL, OTHER - ELIP/ARCH, 49-60"/CD  LF  7/1/2008  $330.00

430-200-ABB  FLARED END SECTION

Unit  EA  Accuracy  Each  PlanQuantity?  no

Notes
Intended for use outside the clear zone on median drain and cross drain installations. Pipe sizes 12" and 15" (300 mm and 375 mm) are permitted within the clear zone. Specifically not intended for side drain installation.

Related Items
Required  Recommended
Design  SBDRST  COMP 700-050-03
Construction  Refer to Comp Book

Documentation
Design  Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction  Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References
PPM Chapter
Other
Specifications
Index No. 270

Prep & Doc Manual Chapter(s)  7, 13

TRNS*PORT Category (DRAFT FIELD):  0200  Roadway

Status
Struct.  430-200-ABB  FLARED END SECTION  EA

A =
Blank (Concrete)

BB = Standard Pipe Sizes
21 (12")
23 (15")
25 (18")
27 (21")
29 (24")
31 (27")
33 (30")
34
38 (36")
40 (42")
41 (48")
42 (54")
43 (60")
44 (66")
45 (72")

Notes
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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**430-6AB-CDD**  **U-ENDWALL**

**Unit**  **EA**  **Accuracy**  **Each**  **Plan Quantity?**  **no**

**Notes**

Refer to Standard Index 260 or 261 for proper selection. To be used only in the clear zone for the drainage of medians and other areas having low design velocities. Precasting or cast-in-place will be permitted. Cost of this item shall include concrete, reinforcing steel, grate and all accessories.

For items included on Index 250, payment will be made under concrete and steel items. Refer to Design Standards.

**Details**

Refer to Standard Index 260 or 261 for proper selection. To be used only in the clear zone for the drainage of medians and other areas having low design velocities. Precasting or cast-in-place will be permitted. Cost of this item shall include concrete, reinforcing steel, grate and all accessories.

For items included on Index 250, payment will be made under concrete and steel items. Refer to Design Standards.

**Related Items Forms**

**Required Design**  **SBDRST**  **Recommended Construction**  **COMP 700-050-03**

**Construction**  **Refer to Comp Book**

**Documentation Design**  **Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.**

**Construction**  **Record final quantity on the tabulation sheet (plans) or computation form (comp book).**

**References**

**PPM Chapter**

**Other**

**Specifications**  **Index No. 260, 261**

Details and Structure: Items 400 to 499
**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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**430-72A-BCC PIPE, SLOTTED OR PERFORATED CULVERT**

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<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>Plan Quantity?</th>
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<tbody>
<tr>
<td>LF; M1</td>
<td>Linear Foot; 10th of a Meter</td>
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**Notes**

to be used for French Drain applications only. Refer to Design Standards. Show size, class/gage and material on the contract plans. Payment is based on equivalent round pipe size.

**Related Items**

- Required Design: SBSPMS; SBSDMES
- Recommended Construction: COMP 700-050-03

**Documentation**

- Design: Refer to Comp Book
- Construction: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor. Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**

- PPM Chapter: Index No. 205, 285

**Prep & Doc Manual Chapter(s)**: 7, 13

---

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

- **Struct.** 430-72A-BCC PIPE, SLOTTED OR PERFORATED CULVERT LF

A =
1 (Storm Sewer) French Drain ONLY
B = Material
Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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430-82A- BB CLEANING & SEALING EXISTING PIPE JOINT

Unit   EA   Accuracy   Each   PlanQuantity? yes

Notes

For cleaning and sealing existing joints only. Coordinate use of this item w/ State Drainage Office to evaluate the condition of the existing pipe. Replacement of the pipe (paid under optional pipe) should be considered. Tech Specs should detail the work to be completed, the sealing materials, and any testing that may be required.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

Required  Recommended
Forms       Design  SBDRST  COMP 700-050-03
            Construction  Refer to Comp Book
Documentation Design  Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
            Construction  Final pay quantity will be PLAN QUANTITY with proper consideration for

Details and Structure: Items 400 to 499
Specifications tolerance.

### References

<table>
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<th>PPM Chapter</th>
<th>Other</th>
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<td>Standards</td>
<td>Specifications</td>
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Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)  6, 7, 13

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**TRNS*PORT Category (DRAFT FIELD):** 0200  Roadway

**Status:** Inactive Structure

**Struct.**  430-82A- BB  CLEANING & SEALING EXISTING PIPE JOINT  EA

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**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
### 430-830- PIPE FILLING AND PLUGGING

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<td>to be used only for filling/plugging existing drainage culverts, where called for in the plans. Per the specifications, &quot;The cost of filling and plugging pipe shown in the plans as existing, to be placed out of service&quot;</td>
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<td>NOTE: &quot;The cost of plugging pipe, shown in the plans as proposed new pipe, will be included in the contract unit price for pipe culvert.&quot; (Do not use this pay item for new pipe.)</td>
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### TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

### Status

#### Struct. 430-830- PIPE FILLING AND PLUGGING CY

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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### Details and Structure: Items 400 to 499

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**Page 61 of 146**
### Meter

#### Notes

#### Details

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#### Status

**Struct.** 430-860- A

**STORM SEWER TRENCH**

**LF**

\[ A = \]

2 (2' Wide)

3 (3' Wide)

4 (4' Wide)

5 (5' Wide)

6 (6' Wide)

#### Notes

"The following items were open, as of the publication date. Refer to the Master Pay Item list for current items."
## 430-880- AA FLAP GATES EA

AA= Standard Pipe Sizes (effective 1/1/2007)
- 01 (0 to 24")
- 02 (25 to 36")
- 03 (37 to 48")
- 04 (49 to 60")
- 05 (61" or greater)

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Item</th>
<th>Description</th>
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### 430-950- DESILTING CONCRETE BOX CULVERT

**Unit**: CY; M3  
**Accuracy**: Cubic Yard; Cubic Meter  
**PlanQuantity?**: no

### Notes

Payment is for the VOLUME OF SILT removed, based on the length and width of the box culvert, and the average DEPTH OF SILT to be removed.

### Related Items

#### Forms

- **Design**: SBDRST  
- **Construction**: COMP 700-050-04  
- **Construction**: 700-050-54

#### Documentation

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References

- PPM Chapter
- Other
- Standards
- Specifications

#### Prep & Doc Manual Chapter(s)

- 6, 7, 13

### TRNS*PORT Category (DRAFT FIELD):

- 0200 Roadway

### Status

- **Struct.**: 430-950- DESILTING CONCRETE BOX CULVERT  
- **CY**
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### Item 430-950
**Description:** Desilting Concrete Box Culvert, CY
**Unit:** 1/1/2007 $99.22

---

### Item 430-963- AA
**Description:** PVC Pipe for Back of Sidewalk Drainage
**Unit:** LF; M1

**Notes:** Effective January 2007; replaces 430-96A-BCC
**Details:** For use according to Design Standard for back of sidewalk applications. For all other applications, including gutter drain, use Optional Pipe.

**Required**
- Design: SBDRST
- Construction: Refer to Comp Book

**Recommended**
- Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**
- PPM Chapter Index 282
- Other Standards: Requirements

**Prep & Doc Manual Chapter(s)**

---

### Item 430-963- 1
**Description:** PVC Pipe for Back of Sidewalk Drainage
**Unit:** 4" LF 1/1/2007 $38.13

### Item 430-963- 2
**Description:** PVC Pipe for Back of Sidewalk, Non Standard Diameter
**Unit:** 4" LF 1/1/2007 $38.83

---

### Item 430-970-
**Description:** Protective Pipe Bedding
**Unit:** LF; M1

**Notes:**
- Pipe bedding is incidental to cost of pipe for most applications. If a special bedding is needed, contact the State Drainage Office prior to requesting this item.

---

**Details and Structure:** Items 400 to 499
For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
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</thead>
<tbody>
<tr>
<td>Forms</td>
<td>Design</td>
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<tr>
<td></td>
<td>Construction</td>
<td>Refer to Comp Book</td>
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<tr>
<td>Documentation</td>
<td>Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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<td>References</td>
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<td></td>
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<td>Specifications</td>
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**Plan Detail and/or Tech Spec Required**

**Prep & Doc Manual Chapter(s)** 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status** Inactive Structure

**Struct.** 430-970- PROTECTIVE PIPE BEDDING LF

**Notes** Contact the State Drainage Office prior to opening.

---

**The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.**

**430-98A-BCC MITERED END SECTION**

<table>
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<tr>
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<th>EA</th>
<th>Accuracy</th>
<th>Each</th>
<th>PlanQuantity?</th>
<th>yes</th>
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</thead>
</table>

**Notes**

Includes all pipe, grates (when required), fasteners, reinforcement, connectors, anchors, concrete, sealants, jackets, coupling bands, and all work required to install the mitered end section. Show shape and size on the contract plans. Refer to Index 273 for valid sizes. Use equivalent round pipe size for payment.

**Related Items**

<table>
<thead>
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<tr>
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<td>Specifications</td>
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<td></td>
<td>Prep &amp; Doc Manual Chapter(s)</td>
</tr>
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### Struct.  430-98A-BCC  MITERED END SECTION  EA

A = Application  
2 (Cross Drain) 
4 (Side Drain)  

B = Shape  
1 (Optional Round)  
6 (Optional Other – Elliptical/Arch)  

CC = Standard Round or Equivalent Other Shape Pipe Sizes  
Standard Pipe Sizes  
21 (12")  
23 (15")  
25 (18")  
27 (21")  
29 (24")  
31 (27")  
33 (30")  
34  
38 (36")  
40 (42")  
41 (48")  
42 (54")  
43 (60")  
44 (66")  
45 (72")  
46 (78")  
47 (84")  
48 (90")  
49 (96")  
50 (102")  
51 (108")  
52 (120")  
53 (132")  
54 (144")  
55 (156")  
56 (168")  
57 (180")  

Refer to Standard Index 205

---

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Item</th>
<th>Description</th>
<th>Unit</th>
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### 431-1-A PIPE LINER, OPTIONAL MATERIAL

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
<th>Notes</th>
<th>Details</th>
<th>Related Items</th>
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</thead>
<tbody>
<tr>
<td>LF; M1</td>
<td>Linear Foot; 10th of a Meter</td>
<td>no</td>
<td>Effective January 2007 letting; replaces 431-1-ABB.</td>
<td>This item is used to rehabilitate an existing pipe by forming a lining on the host pipe's interior, thereby allowing a debilitated pipe to regain strength and performance capabilities. Box to Box liners are preferred. Contact the State Drainage Office if sectional liners are considered (see item 908-431-A) Design with manufacturer's lengths in mind for all practical applications. Refer to specifications for current industry practices.</td>
<td>Required Design: SBDRST Required Construction: Refer to Comp Book Recommended Design: COMP 700-050-03 Recommended Construction: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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### Specified Items

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<th>Item</th>
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### Structural 431- 1- A PIPE LINER, OPTIONAL MATERIAL LF

**A= Size Range**
1 (0–24")
2 (25–36")
3 (37–48")
4 (49–60")
5 (61" and greater)

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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### Chemical Grout Repair - Pipe, Non-Test

#### Unit
EA

#### Accuracy
Each

#### Plan Quantity?
no

### Details
For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

### Related Items

#### Required

- **Design**
  - SHTabQuant

#### Recommended

- **Design**
  - COMP 700-050-03

- **Construction**
  - Refer to Comp Book

- **Construction**
  - Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

- **Construction**
  - Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References

- **PPM Chapter**
  - Other

- **Standards**
  - Specifications

**Plan Detail and/or Tech Spec Required**

### TRNS*PORT Category (DRAFT FIELD): 0200 Roadway
### Struct. 432-3-A

**CHEMICAL GROUT REPAIR - PIPE, NON-TEST**

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<th>2 (18&quot;)</th>
<th>3 (21&quot;)</th>
<th>4 (24&quot;)</th>
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**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*

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<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$927.22</td>
</tr>
<tr>
<td>0432 3 9</td>
<td>CHEMICAL GROUT REPAIR, PIPE, NON-TEST, 54&quot;</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$1,095.56</td>
</tr>
<tr>
<td>0432 3 10</td>
<td>CHEMICAL GROUT REPAIR, PIPE, NON-TEST, 66&quot;</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$1,336.52</td>
</tr>
</tbody>
</table>

### 433-1-

**CHEMICAL GROUT REPAIR - MANHOLE/INLET**

**Notes**

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

**Required**
- Design: SHTabQuant
- Construction: Refer to Comp Book

**Recommended**
- Design: COMP 700-050-03
- Construction: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Construction**
- Record final quantity on the tabulation sheet (plans) or computation form (comp book).
### References
- PPM Chapter
- Other
- Standards
- Specifications

### Plan Detail and/or Tech Spec Required
Prep & Doc Manual Chapter(s)

### TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

### Status
- **Struct.** 433- 1-
  - **CHEMICAL GROUT REPAIR- MANHOLE/INLET** EA

### Notes
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0433</td>
<td>CHEMICAL GROUT REPAIR, MANHOLE / INLET</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$964.49</td>
</tr>
</tbody>
</table>

#### 435- 1- AA STRUCTURAL PLATE PIPE CULVERT

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>LF; M1</td>
<td>Linear Foot; 10th of a Meter</td>
<td>yes</td>
</tr>
</tbody>
</table>

### Notes
- Coordinate the use of this item with the State Drainage Office prior to requesting pay items.

### Related Items
- **Required**
- **Recommended**

### Forms
- Design
- Construction

### Documentation
- Design
- Construction

### References
- PPM Chapter
- Other
- Standards
- Specifications

### Prep & Doc Manual Chapter(s)

### TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

### Status
- **Struct.** 435- 1- AA
  - **STRUCTURAL PLATE PIPE CULVERT** LF

AA= Blank for drainage applications
99 (Animal Crossing)

### Notes
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0435</td>
<td>STRUCTURAL PLATE PIPE CULVERT</td>
<td>LF</td>
<td>7/1/2008</td>
<td></td>
<td></td>
<td>$1,000.00</td>
</tr>
<tr>
<td>0435</td>
<td>STRUCTURAL PLATE PIPE CULVERT SPECIAL- ANIMAL CROSSING</td>
<td>LF</td>
<td>4/1/2009</td>
<td></td>
<td></td>
<td>$1,000.00</td>
</tr>
</tbody>
</table>

Details and Structure: Items 400 to 499
### 436- 1- A  TRENCH DRAIN

**Unit**: LF; M1  
**Accuracy**: Linear Foot; 10th of a Meter  
**Plan Quantity?**: no

**Notes**
Use in accordance with Index 206. Various alternatives are available on the standard. Special should only be used if you have a significant design change. Plan Details and/or Tech Spec will be required. Minor changes may be noted in the plans with the "standard" item. For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>COMP 700-050-03</td>
</tr>
</tbody>
</table>

**Forms**
Refer to Comp Book

**Documentation**
Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**
PPM Chapter

**Standards**
Index No. 206

**Specifications**
Selected Items may require Tech Spec and/or Plan Detail

**Prep & Doc Manual Chapter(s)**

---

**TRNS**PORT Category (DRAFT FIELD): 0200 Roadway

**Status**

<table>
<thead>
<tr>
<th>Struct.</th>
<th>436- 1- A</th>
<th>TRENCH DRAIN</th>
<th>LF</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>size</td>
<td>1 (Standard)</td>
<td></td>
</tr>
<tr>
<td>2 (Special)*</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Notes**

* Special may require Tech Spec and/or Plan Detail

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0436 1 1</td>
<td>TRENCH DRAIN, STANDARD</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$106.64</td>
</tr>
<tr>
<td>0436 1 2</td>
<td>TRENCH DRAIN, SPECIAL</td>
<td>LF</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$195.88</td>
</tr>
</tbody>
</table>

---

### 440- 1- AA  UNDERDRAIN

**Unit**: LF; M1  
**Accuracy**: Linear Foot; 10th of a Meter  
**Plan Quantity?**: no

**Notes**

---

**Details**
Item based on the size of the smooth interior product. Price per length shall include cost of pipe, fittings, aggregate, sock, filter fabric, cleanouts, and concrete aprons.

---

Details and Structure: Items 400 to 499

Page 72 of 146
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0440 1 10</td>
<td>UNDERDRAIN, TYPE I</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$51.00</td>
</tr>
<tr>
<td>0440 1 20</td>
<td>UNDERDRAIN, TYPE II</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$21.63</td>
</tr>
<tr>
<td>0440 1 30</td>
<td>UNDERDRAIN, TYPE III</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$44.49</td>
</tr>
<tr>
<td>0440 1 50</td>
<td>UNDERDRAIN, TYPE V</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$66.42</td>
</tr>
<tr>
<td>0440 1 60</td>
<td>UNDERDRAIN, TYPE SPECIAL</td>
<td>LF</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$95.91</td>
</tr>
</tbody>
</table>

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

**Related Items**

**Forms**
- Required: SBUNDR; SBUnderdrain
- Recommended: COMP 700-050-03

**Documentation**
- Design: Refer to Comp Book
- Construction: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**References**
- PPM Chapter: Design, Construction
- Other: Refer to Comp Book

**Prep & Doc Manual Chapter(s)**: 7, 13

**TRNS*PORT Category (DRAFT FIELD)**: 0200 Roadway

**Struct. 440-1- AA UNDERDRAIN LF**

AA =
- 10 (Type I)
- 20 (Type II)
- 30 (Type III)
- 50 (Type V)
- 60 (Type Special)

**Notes**

**Details**

**Related Items**

**Forms**
- Required: SBUNDR; SBUnderdrain
- Recommended: COMP 700-050-03

**Documentation**
- Design: Refer in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**
- PPM Chapter: Design, Construction
- Other: SBUNDR; SBUnderdrain

**Prep & Doc Manual Chapter(s)**: 7, 13

**TRNS*PORT Category (DRAFT FIELD)**: 0200 Roadway
Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. 440-70- UNDERDRAIN INSPECTION BOX EA

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0440 70</td>
<td>UNDERDRAIN INSPECTION BOX</td>
<td>EA</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$1,926.54</td>
</tr>
</tbody>
</table>

440-73- A UNDERDRAIN OUTLET PIPE

Unit LF; M1  Accuracy Linear Foot; 10th of a Meter  PlanQuantity? no

Notes

Details

Use in accordance with Standard Index. Price per length includes trench excavation, pipe, fittings, concrete aprons, hardware cloth for concrete aprons, stubbing into drainage structures, backfill in place, and removal of excess materials.

Related Items

Required Recommended

Forms

Design SBUNDR; SBUnderdrain COMP 700-050-03

Construction Refer to Comp Book

Documentation

Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards Index No. 286

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. 440-73- A UNDERDRAIN OUTLET PIPE LF

A = Size
1 (4")
2 (6")
3 (8")
4 (10")
5 (12") Note: 12" is non-standard; will require plan details and/or Tech Spec
6 (5")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0440 73 1</td>
<td>UNDERDRAIN OUTLET PIPE, 4&quot;</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>T</td>
<td>$17.85</td>
</tr>
<tr>
<td>0440 73 2</td>
<td>UNDERDRAIN OUTLET PIPE, 6&quot;</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>T</td>
<td>$38.74</td>
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<tr>
<td>0440 73 3</td>
<td>UNDERDRAIN OUTLET PIPE, 8&quot;</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>T</td>
<td>$88.27</td>
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<tr>
<td>0440 73 4</td>
<td>UNDERDRAIN OUTLET PIPE, 10&quot;</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>T</td>
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<tr>
<td>0440 73 5</td>
<td>UNDERDRAIN OUTLET PIPE, 12&quot;</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
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<td>T</td>
<td>$39.73</td>
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### 442-70- VERTICAL DRAINAGE WICKS

<table>
<thead>
<tr>
<th>Notes</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Required: SBDRST</td>
</tr>
<tr>
<td></td>
<td>Recommended: COMP 700-050-03</td>
</tr>
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<td></td>
<td>Forms</td>
</tr>
<tr>
<td>Design</td>
<td>SBDRST</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
<tr>
<td></td>
<td>Documentation</td>
</tr>
<tr>
<td>Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
</tr>
<tr>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
<tr>
<td>Related Items</td>
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</tr>
<tr>
<td>Forms</td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td>SBDRST</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
<tr>
<td></td>
<td>References</td>
</tr>
<tr>
<td>PPM Chapter</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td></td>
</tr>
<tr>
<td>Standards</td>
<td></td>
</tr>
<tr>
<td>Specifications</td>
<td></td>
</tr>
<tr>
<td>Prep &amp; Doc Manual Chapter(s)</td>
<td>6, 7, 13</td>
</tr>
</tbody>
</table>

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0442 70</td>
<td>VERTICAL DRAINAGE WICKS</td>
<td>LF</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$2.17</td>
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</table>

### 443-70- AA FRENCH DRAIN

<table>
<thead>
<tr>
<th>Notes</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>This item includes furnishing and placing pipe, pipe plugs, pipe fittings, coarse aggregate and filter fabric, and also includes trenching, backfilling, sheeting and, when necessary, pavement restoration.</td>
</tr>
<tr>
<td></td>
<td>Related Items</td>
</tr>
<tr>
<td>Forms</td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td>SBDRST</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
<tr>
<td></td>
<td>Documentation</td>
</tr>
<tr>
<td>Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities</td>
</tr>
</tbody>
</table>

Details and Structure: Items 400 to 499
sheet in the plans, or detail calculations in the computation book.

**Construction**

Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

**PPM Chapter**

**Other**

**Standards**

Index No. 285

**Specifications**

Prep & Doc Manual Chapter(s)  6, 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

Struct.  443- 70- AA  FRENCH DRAIN  LF

AA = Size
3 (18")
4 (24")
5 (30")
6 (36")
7 (42")
8 (48")
9 (54")

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0443 70 3</td>
<td>FRENCH DRAIN, 18&quot;</td>
<td>LF</td>
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<td>1/1/2007</td>
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</tr>
<tr>
<td>0443 70 4</td>
<td>FRENCH DRAIN, 24&quot;</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
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<td>$156.88</td>
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<tr>
<td>0443 70 5</td>
<td>FRENCH DRAIN, 30&quot;</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$269.33</td>
</tr>
<tr>
<td>0443 70 6</td>
<td>FRENCH DRAIN, 36&quot;</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
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<td>$334.58</td>
</tr>
<tr>
<td>0443 70 7</td>
<td>FRENCH DRAIN, 42&quot;</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$269.33</td>
</tr>
<tr>
<td>0443 70 8</td>
<td>FRENCH DRAIN, 48&quot;</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$464.67</td>
</tr>
</tbody>
</table>

**443- 71- A**  BALLAST ROCK

**Unit**  CY; M3  **Accuracy**  Cubic Yard; Cubic Meter  **PlanQuantity?**  no

**Notes**

Do not use with 443-70 French Drain item; refer to Index 285 for details

**Details**

**Related Items**

**Forms**

Required  SHTab Quant  Recommended  COMP 700-050-04

**Construction**

700-050-54

**Documentation**

Design  Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction  Measure inside the truck bed; calculate the volume by multiplying those three dimensions. Subtract 2% to account for the hoist box and bed fillets. Record all field records on site source record form and transfer final quantity to computation book.

**References**

**PPM Chapter**

**Other**
**Standards**

Index No. 285

**Specifications**

Prep & Doc Manual Chapter(s) 6, 7, 13

---

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

**Struct.** 443- 71- A BALLAST ROCK CY

A = 1 (French Drain Aggregate)

---

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0443 71 1</td>
<td>BALLAST ROCK, FRENCH DRAIN AGGREGATE</td>
<td>CY</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td></td>
<td>$81.88</td>
</tr>
</tbody>
</table>

---

**444- 70- AA** WELL OPEN HOLE (DEEP)

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
<th>LF; M1</th>
<th>Linear Foot; 10th of a Meter</th>
<th>no</th>
</tr>
</thead>
</table>

**Notes**

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

<table>
<thead>
<tr>
<th><strong>Required</strong></th>
<th><strong>Recommended</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms Design</td>
<td>SHTabQuant COMP 700-050-03</td>
</tr>
</tbody>
</table>

**Documentation**

Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter

Other

Standards

Specifications

Plan Details and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

---

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

**Struct.** 444- 70- AA WELL OPEN HOLE (DEEP) LF

AA = 5 (12")
    6 (14")
    7 (16")
    8 (18")
    11 (24")

---

Details and Structure: Items 400 to 499
14 (30")
17 (36")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0444 70 11</td>
<td>WELL OPEN HOLE, DEEP, 24&quot;</td>
<td>LF</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$192.52</td>
</tr>
</tbody>
</table>

444- 71- AA WELL CASING (DEEP)

Unit LF; M1 Accuracy Linear Foot; 10th of a Meter Plan Quantity? no

Details

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

Required Recommended

Forms
Design SHTabQuant COMP 700-050-03
Construction Refer to Comp Book

Documentation
Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References
PPM Chapter 6, 7, 13
Other
Standards
Specifications

Plan Details and/or Tech Spec Required
Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. 444- 71- AA WELL CASING (DEEP) LF

AA =
5 (12")
6 (14")
7 (16")
8 (18")
11 (24")
14 (30")
17 (36")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0444 71 11</td>
<td>WELL CASING, DEEP, 24&quot;</td>
<td>LF</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$242.18</td>
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</tbody>
</table>

444- 72- AA DEEP WELL CLEANING

Details and Structure: Items 400 to 499
Notes Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

Forms Required Recommended
Design SHTabQuant COMP 700-050-03

Documentation

Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References PPM Chapter Other Standards Specifications

Plan Details and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<tr>
<th>Item</th>
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<th>TSP/Detail</th>
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<tbody>
<tr>
<td>0444 72 11</td>
<td>DEEP WELL CLEANING, 24&quot;</td>
<td>LF</td>
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<td>1/1/2008</td>
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<td>$82.05</td>
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</table>

446- 1- A EDGEDRAIN DRAINCRETE

Notes

Details Price per length includes removal of existing shoulder pavement, trench excavation, disposal of excess materials, filter fabric, draincrete, edgedrain pipe and fittings. Refer to Design Standard for payment details, based on new/rehab construction.

Related Items

Forms Required Recommended
Design SBEDDR; SBEdrains COMP 700-050-03
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
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<tr>
<td>0446 1</td>
<td>EDGEDRAIN DRAINCRETE, STANDARD</td>
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<td>1/1/2007</td>
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<td>$21.20</td>
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</table>

**446-71- A EDGEDRAIN OUTLET PIPE**

**Unit** LF; M1  
**Accuracy** Linear Foot; 10th of a Meter  
**PlanQuantity?** no

**Notes**
Includes removal of existing shoulder pavement, trench excavation, pipe and fitting, concrete apron, sod, stubbing into existing inlets and paved ditches, etc. Refer to Design Standard for details.

**Related Items**

<table>
<thead>
<tr>
<th>Forms</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SBEDDR; SBEdgedrains</td>
<td>COMP 700-050-03</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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</tr>
</tbody>
</table>

**Documentation**

| Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. |
| Construction | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

**References**

| PPM Chapter | |
| Other | |
| Standards | Index No. 287 |
| Specifications | |

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway
**Struct. 446-71- A**  
**EDGEDRAIN OUTLET PIPE**  
LF

A= pipe size  
1 (4")  
9 (non-standard) Note: standard per Index 287 is 4"  

**Notes**  
* non-standard item may require Tech Spec and/or Plan Detail

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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<tr>
<td>0446 71 1</td>
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<td>LF</td>
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**448-73-**  
**PUMPING STATION**

<table>
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<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
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</thead>
<tbody>
<tr>
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<td>Lump Sum</td>
<td>yes</td>
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**Notes**  
For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
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<tr>
<td>Design</td>
<td>SHTabQuantLS</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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**Documentation**

Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.  

Construction: Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**

PPM Chapter: SHTabQuantLS  
Other: COMP 700-050-05  
Standards: |

**Specifications**

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s): 6, 7, 13

**TRNS**PORT Category (DRAFT FIELD): 0200 Roadway

**Status**

**Struct. 448-73-**  
**PUMPING STATION**  
LS/LS

**Notes**

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<tr>
<th>Item</th>
<th>Description</th>
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<td>0448 73</td>
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<td>1/1/2007</td>
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**450-1-AAA**  
**PRESTRESSED BEAMS**

<table>
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<tr>
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<tbody>
<tr>
<td>LF; M1</td>
<td>Linear Foot; 10th of a Meter</td>
<td>yes</td>
</tr>
</tbody>
</table>

**Notes**

---

Details and Structure: Items 400 to 499  
Page 81 of 146
Details

Intended for prestressed beams for bridge construction. Summarize quantities by location per span.

AAA=201, 202, 203 are typically used for bridge widening projects. These are non-standard and will require project specific design. Designers must work with the District and/or State Structures Office when using these items.

AAA=278, 378 are typically used for post-tensioned beams. These are non-standard and will require project specific design. Designers must work with the District and/or State Structures Office when using these items.

Non-Standard beam types: Coordinate standards (as applicable / if available), with details shown in the plans.

Other beam types: Pay Items for other beam types may be expanded upon request. Minor "non-standard" changes may be paid under the applicable beam type, with details in the plans or specifications.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
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<tr>
<td><strong>Forms</strong></td>
<td>Design SHTabQuant</td>
<td>COMP 700-050-03</td>
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<tr>
<td></td>
<td>Construction Refer to Comp Book</td>
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<td>PPM Chapter</td>
<td></td>
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<td></td>
<td>Other Index No. 20110 thru 20199, and 20310, 20320.</td>
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<td>Standards Specifications</td>
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<td></td>
<td>Prep &amp; Doc Manual Chapter(s) 6, 7, 13</td>
<td></td>
</tr>
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</table>

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

**Struct. 450- 1-AAA** PRESTRESSED BEAMS LF

AAA =  
1 (Type II)  
2 (Type III)  
3 (Type IV)  
4 (Type V)  
5 (Type VI)  
7 (Special) see pay item details  
54 (Bulb T, 54") *non-standard  
63 (Bulb T, 63") *non-standard  
72 (Bulb T, 72")  
78 (Bulb T, 78")  
118 (Florida Double Tee, Fdt18) *non-standard  
124 (Florida Double Tee, Fdt24) *non-standard  
130 (Florida Double Tee, Fdt30) *non-standard  
201 (Type II Modified) *non-standard  
202 (Type III Modified) *non-standard  
203 (Type IV Modified) *non-standard  
250 (Inverted T, 20")  
278 (Bulb T, 78", Modified, w/post tensioning) *non-standard  
378 (Bulb T, 78", Haunched, Modified, w/post tensioning) *non-standard

Notes

---------------------------------------------------------------

Details and Structure: Items 400 to 499
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<th>Obsolete Date</th>
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<td>$92.80</td>
</tr>
</tbody>
</table>

**Notes**

Intended for non-post-tensioned prestressed bridge deck panels w/ concrete wearing surface.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

**Required**
- Design: SHTabQuant
- Construction: Refer to Comp Book

**Recommended**
- Design: COMP 700-050-03
- Construction: PLAN QUANTITY

**Documentation**

**Design**
- Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

**Construction**
- Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**

**PPM Chapter**
- SDG’s 4.4

**Other**
- Plan Detail and/or Tech Spec Required

**Prep & Doc Manual Chapter(s)**
- SDG’s 4.4

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

**Status**

**Struct.** 450- 3- AB PRESTRESSED SLAB UNITS LF

**Details and Structure:** Items 400 to 499
A = Width
1 (48")
2 (60")
3 (96")
4 (72")
5 (36")
6 (54")
7 (57")

B = Thickness
1 (12")
2 (16")
3 (10")
4 (18")
5 (15")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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450- 4-AAA  PRESTRESSED BEAM (FLORIDA U-BEAM)

<table>
<thead>
<tr>
<th>Unit</th>
<th>LF; M1</th>
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</table>

<table>
<thead>
<tr>
<th>Accuracy</th>
<th>Linear Foot; 10th of a Meter</th>
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</thead>
</table>

| PlanQuantity? | yes |

Notes

Intended for prestressed Florida U-beams for bridge construction. Summarize quantities by location per span.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

Required
Design
SHTabQuant

Recommended
Construction
COMP 700-050-03

Refer to Comp Book

Documentation
Design
Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN
QUANTITY will be basis of payment to the Contractor.

**Construction**

Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**

PPM Chapter

Other

Specifications

Index No. 20210 thru 20299

Plan Detail and/or Tech Spec Required

**Prep & Doc Manual Chapter(s)** 6, 7, 13

---

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

---

Status

**Struct.** 450-4-AAA

PRESTRESSED BEAM (FLORIDA U-BEAM) LF

AAA =
1 (48”)
2 (54”)
3 (63”)
4 (72”)

---

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
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---

**450-82- BEAM REPAIR**

**Unit** LF; M1

**Accuracy** Linear Foot; 10th of a Meter

**PlanQuantity?** yes

Notes

Details

Intended for rehabilitation projects to strengthen or repair existing concrete beams. Show locations in plans. Include pay item note to clarify payment for various work items. See also item 450-83.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>COMP 700-050-03</td>
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</table>

**Forms**

Refer to Comp Book

**Documentation**

Design

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction

Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**

PPM Chapter

Other

Specifications

**Prep & Doc Manual Chapter(s)** 7, 13
**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

**Struct.** 450-82- BEAM REPAIR LF

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<tr>
<th>Item</th>
<th>Description</th>
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**450-83- A BEAM REPAIR**

**Notes**

**Details**

Intended for rehabilitation projects to strengthen or repair existing concrete beams. Show locations in plans. Include pay item note to clarify payment for various work items. See also item 450-82.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

**Required**

- Design: SHTabQuant
- Construction: Refer to Comp Book

**Recommended**

- Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**Documentation**

- Plan Detail and/or Tech Spec Required

**PPM Chapter**

- Design
- Construction

**Prep & Doc Manual Chapter(s)** 7, 13

---

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

**Status**

**Struct.** 450-83- A BEAM REPAIR EA

A =
1 (Strand Splices)
2 (Bar Splices)

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tr>
<td>0450 83 1</td>
<td>BEAM REPAIR (STRAND SPLIC</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$425.00</td>
</tr>
</tbody>
</table>
450-88-AA  PRESTRESSED SLAB UNITS TRANSVERSELY POST TENSIONED

| Unit     | SF; M2 | Accuracy | Square Foot; 10th of a Square Meter | PlanQuantity? | no |

**Notes**

**Details**

Intended for post-tensioned prestressed bridge deck panels w/ concrete or asphalt wearing surface.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>COMP 700-050-01</td>
</tr>
<tr>
<td>Design</td>
<td>Refer to Comp Book</td>
</tr>
<tr>
<td>Construction</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
</tr>
<tr>
<td>Documentation</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
<tr>
<td>Related Items Details</td>
<td>Plan Detail and/or Tech Spec Required</td>
</tr>
<tr>
<td>Prep &amp; Doc Manual Chapter(s)</td>
<td>7, 13</td>
</tr>
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</table>

**References**

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Other</th>
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<tbody>
<tr>
<td></td>
<td>SDG's 4.4</td>
</tr>
</tbody>
</table>

**Standards Specifications**

Plan Detail and/or Tech Spec Required

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

**Struct. 450-88-AA  PRESTRESSED SLAB UNITS TRANSVERSELY POST TENSIONED**

AA =
12 (12")
14 (14")
15 (15")
16 (16")
18 (18")
19 (19")
20 (20")
21 (21")
24 (24")

**Notes**

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tr>
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<td>SF</td>
<td>T</td>
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<tr>
<td>0450 88 18</td>
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<td>SF</td>
<td>T</td>
<td>1/1/2007</td>
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<td>$0.00</td>
</tr>
</tbody>
</table>

---

Details and Structure: Items 400 to 499
451- 70- AA  PRESTRESSED SOIL ANCHOR

Unit  EA  Accuracy  Each  PlanQuantity?  no

Notes
Details
For permanent applications only. Do not pay for separately when prestressed soil anchors are part of a temporary steel sheet pile wall system. Intended for payment of prestressed soil anchor, proof and creep test. See specification 451-12. Show anchor spacing and force/anchor. Show locations in plans w/ quantity block.

Related Items
Required  Recommended
Forms  Design  SHTabQuant  COMP 700-050-03
          Construction  Refer to Comp Book
Documentation  Design  Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
          Construction  Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References
PPM Chapter
Other
Standards
Specifications
Prep & Doc Manual Chapter(s)  7, 13

TRNS*PORT Category (DRAFT FIELD):  100 or 200  Structures or Roadway

Status
Struct.  451- 70- AA  PRESTRESSED SOIL ANCHOR  EA

AA =
Blank (F&I, With Standard Tests)
1 (Performance Test)
2 (Creep Test)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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<th>Obsolete Date</th>
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<td>PREST SOIL ANCHORS</td>
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<td>0451 70 1</td>
<td>PRESTRESSED SOIL ANCHOR, PERFORMANCE TEST</td>
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<td>0451 70 2</td>
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<td>1/1/2007</td>
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</tr>
</tbody>
</table>

452- 70-  PRECAST SEGMENT PRODUCTION

Unit  LS/LS  Accuracy  Lump Sum  PlanQuantity?  yes

Notes
Details
Intended to cover for segmental casting yard set-up costs. Required on all Precast Segmental Bridge Projects.

Related Items
Required  Recommended
Forms  Design  SHTabQuantLS  COMP 700-050-05

Details and Structure: Items 400 to 499
Standards Specifications

Struct. 452-70- PRECAST SEGMENT PRODUCTION LS/LS

Notes

Status

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter
Other
Standards Specifications
Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0452 70</td>
<td>PRECAST SEGMENT PRODUCTION</td>
<td>LS</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$0.00</td>
</tr>
</tbody>
</table>

455-2- A TREATED TIMBER PILING

Notes

Designer must verify material requirements with State Materials Lab prior to requesting item.

Intended for temporary detour bridge applications, or special use structures. Summarize quantities by location per bent. The quantity to be paid for shall be the length, in feet (meters), of piling actually remaining in the completed structure below the elevation of cut-off shown in the plans or designated by the Engineer.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

Required Recommended
Forms Design SHTabQuant COMP 700-050-03
Construction Design Refer to Comp Book

Documentation Design

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction

Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter
Other
Standards
Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)  6, 7, 13

**TRNS*PORT Category (DRAFT FIELD):**  100 or 200  Structures or Roadway

**Status**

**Struct.  455- 2- A  TREATED TIMBER PILING  LF**

A = Treatment
Blank (Single Treatment)
1 (Dual Treatment)

**Notes**

Designer must verify material requirements with State Materials Lab prior to requesting item.

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0455</td>
<td>TREATED TIMBER PILING</td>
<td>LF</td>
<td>T</td>
<td>1/1/2007</td>
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<td>$38.62</td>
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</table>

**455- 14- AA  CONCRETE SHEET PILING**

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
<th>no</th>
</tr>
</thead>
<tbody>
<tr>
<td>LF; M1</td>
<td>Linear Foot; 10th of a Meter</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Notes**

Intended for concrete sheet pile walls. Show locations in plans. Include quantity block in plans.

**Related Items**

**Forms**

Required  Design  SHTabQuant  COMP 700-050-03
Recommended  Construction  Refer to Comp Book

**Documentation**

Design  Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction  Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter  Index 20400 thru 20440
Other  Standards  Specifications  Prep & Doc Manual Chapter(s)  7, 13

**TRNS*PORT Category (DRAFT FIELD):**  100 or 200  Structures or Roadway

**Status**

**Struct.  455- 14- AA  CONCRETE SHEET PILING  LF**

A =
1 (7" X 30")
2 (8" X 30")
3 (10" X 30")
4 (12" X 30")
5 (Special)
6 (6" X 30")
7 (5" X 24")
8 (6" X 48")
### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<td>0455 14 2</td>
<td>CONCRETE SHEET PILING, 8&quot;X30&quot; LF</td>
<td>1/1/2007</td>
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<td>0455 14 3</td>
<td>CONCRETE SHEET PILING, 10&quot;X30&quot; LF</td>
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<td>CONCRETE SHEET PILING, 12&quot;X30&quot; LF</td>
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<td>0455 14 5</td>
<td>CONCRETE SHEET PILING, SPECIAL LF</td>
<td>1/1/2007</td>
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</table>

#### 455-18-

**PROTECTION OF EXISTING STRUCTURES**

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>Plan Quantity?</th>
<th>yes</th>
</tr>
</thead>
</table>

**Notes**

Intended for projects where impacts of construction vibration on adjacent existing structures is a concern. Survey existing older bridges and monitor vibration/settlement of existing structures located within a few hundred feet of the following construction operations: pile driving, drilled shaft excavations, blasting, vibro-compaction, steel sheet pile installations, well point dewatering systems, etc. Of special concern are old bridge structures on timber piles, existing retaining walls, existing building on shallow foundations, etc.

List in the plans adjacent to structures not covered under 455-1.1 that require surveying and vibration monitoring, or structures that require special attention during construction.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
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<tbody>
<tr>
<td>Design</td>
<td>SHTabQuantLS</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
</tbody>
</table>

**Documentation**

| Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor. |
| Construction | Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances. |

**References**

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Other Standards Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soils and Foundations Handbook 7.1.6, 9.2.4</td>
<td></td>
</tr>
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</table>

**Prep & Doc Manual Chapter(s)** 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 100 or 200 Structures or Roadway

**Status**

**Struct.** 455-18-

**Notes**
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0455 18</td>
<td>PROTECTION OF EXISTING STRUCTURES</td>
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<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$16,311.10</td>
</tr>
</tbody>
</table>

**455-34-AA PRESTRESSED CONCRETE PILING**

**Unit**: LF; M1  
**Accuracy**: Linear Foot; 10th of a Meter  
**PlanQuantity?**: no

**Notes**

Effective January 2009 - refer to specification changes for dynamic load tests.

**Details**

For projects let January 2009 and later: Intended to cover cost and installation of the square prestressed concrete piling.

Design quantity computed as the total anticipated length of pile WITHOUT ALLOWANCES for cutoffs, splices, dynamic load tests, or preforming. Construction Final Quantity will be adjusted based on allowances, per the specifications.

Related item 455-143, except for fender system piling, & piling for soldier pile walls.

For projects let through December 2008: Intended to cover cost and installation of the square prestressed concrete piling.

Quantity computed as the total anticipated length of pile without allowances for cutoffs, splices or preforming. Related items 455-143 & 455-137, except for fender system piling, & piling for soldier pile walls.

**Related Items**

**Required**  
**Recommended**

<table>
<thead>
<tr>
<th>Forms</th>
<th>Design</th>
<th>SHTabQuant</th>
<th>COMP 700-050-08</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Construction</td>
<td>Refer to Comp Book</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Documentation</th>
<th>Design</th>
<th>Locate in plans. Detailed calculations are required in computation book to reflect actual scope of work.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Construction</td>
<td>Final tabulation of quantities must be recorded on proper form in computation book by location.</td>
</tr>
</tbody>
</table>

**References**

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Other</th>
<th>SDG’s 3.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standards</td>
<td>Index</td>
<td>20600 thru 20631.</td>
</tr>
</tbody>
</table>

**Specifications**

**Prep & Doc Manual Chapter(s)**: 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

**Struct.** 455-34-AA PRESTRESSED CONCRETE PILING LF

A =
1 (12” Sq.)
2 (14” Sq.)
3 (18” Sq.)
4 (20” Sq.)
5 (24” Sq.)
6 (30” Sq.)
7 (36” Sq.)
8 (Special)

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Details and Structure: Items 400 to 499
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
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<tbody>
<tr>
<td>0455 34 1</td>
<td>PRESTRESSED CONCRETE PILING, 12&quot; SQ.</td>
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<td>CONCRETE PILING PRESTRESSED, SPECIAL</td>
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<td>$200.00</td>
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</tbody>
</table>

### 455- 35- AA PILING, STEEL

**Unit**: LF; M1  
**Accuracy**: Linear Foot; 10th of a Meter  
**PlanQuantity?**: no

**Notes**

Intended to cover cost and installation of the steel “H” or pipe piling.  
Quantity computed as the total anticipated length of pile without allowances for cutoffs, splices or preforming.

**Related Items**

**Required**  
Design: SHTabQuant  
Construction: Refer to Comp Book

**Recommended**

Design: COMP 700-050-08  
Construction: Final tabulation of quantities must be recorded on proper form in computation book by location.

**References**

PPM Chapter: SDG’s 3.5
Other:
Standards: SDG’s 3.5
Specifications: SDG’s 3.5
Prep & Doc Manual Chapter(s): 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

**Structure**: 455- 35- AA PILING, STEEL LF

AA =
- 1 (Hp 8 X 36)
- 2 (Hp 10 X 36)
- 3 (Hp 10 X 42)
- 4 (Hp 12 X 53)
- 5 (Hp 14 X 73)
- 6 (Hp 14 X 89)
- 7 (Hp 14 X 102)
- 8 (Hp 14 X 117)
- 9 (Special)

**Details and Structure: Items 400 to 499**
20 (18" Dia Pipe)
21 (20" Dia. Pipe)
22 (24" Dia. Pipe)
23 (30" Dia. Pipe)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
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<td>STEEL PILING, HP 12 X 53</td>
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<td>0455 35 9</td>
<td>STEEL PILING, SPECIAL</td>
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<tr>
<td>0455 35 21</td>
<td>STEEL PILING, 20&quot; DIA. PIPE</td>
<td>LF</td>
<td>1/1/2007</td>
<td>$114.27</td>
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<tr>
<td>0455 35 22</td>
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<td>LF</td>
<td>1/1/2007</td>
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</tr>
<tr>
<td>0455 35 23</td>
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<td>LF</td>
<td>1/1/2007</td>
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</table>

455- 36- A CONCRETE CYLINDER PILES- FURNISHED & DRIVEN

Unit LF; M1 Accuracy Linear Foot; 10th of a Meter PlanQuantity? no

Notes
Details

Intended to cover cost and installation of the concrete cylinder piling. Quantity computed as the total anticipated length of pile without allowances for cutoffs, splices or preforming.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

Required SHTabQuant Recommended COMP 700-050-08

Forms
Design

Construction Refer to Comp Book

Documentation
Design Locate in plans. Detailed calculations are required in computation book to reflect actual scope of work.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References
PPM Chapter SDG’s 3.5
Other

Specifications
Index 20654, 20660.

Plan Detail and/or Tech Spec Required
Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status
Struct. 455- 36- A CONCRETE CYLINDER PILES- FURNISHED & DRIVEN LF

A =

Details and Structure: Items 400 to 499
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### 455-37- A  FIBERGLASS STRUCTURALLY REINFORCED COMPOSITE PILES

<table>
<thead>
<tr>
<th>Unit</th>
<th>LF; M1</th>
<th>Accuracy</th>
<th>Linear Foot; 10th of a Meter</th>
<th>PlanQuantity?</th>
<th>yes</th>
</tr>
</thead>
</table>

**Notes**

Effective January 2007. Formerly titled "Fender System, Plastic Composite Piles"

to be used with Fender System, Section 471. Refer to Design Standards and Specifications for additional information.

**Related Items**

**Forms**

- Required: SHTabQuant
- Recommended: COMP 700-050-08

- Design: Refer to Comp Book

**Documentation**

- Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
- Construction: Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**Status**

**Struct. 455-37- A FIBERGLASS STRUCTURALLY REINFORCED COMPOSITE PILES**

A= Size
1 (13" Diameter) to be opened only with Structures Design Approval
2 (16" Diameter)

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

**Item**

0455 37 2  FIBERGLASS STRUCTURALLY REINFORCED COMPOSITE PILE, 16" D

**Unit**

LF

**TSP/Detail**

1/1/2007

**Valid Date**

$117.50

**Obsolete Date**

**LRE Ref Price**

**455-39- A MINIPILE FOUNDATION SYSTEMS- FURNISH AND INSTALL**

<table>
<thead>
<tr>
<th>Unit</th>
<th>EA</th>
<th>Accuracy</th>
<th>Each</th>
<th>PlanQuantity?</th>
<th>no</th>
</tr>
</thead>
</table>

**Notes**

Intended for strengthening existing bridges or used on new structures that have restricted overhead room. Payment is per each; length is determined by the contractor's specialty engineer. Minimum tip elevation and minimum casing lengths shall be shown in the plans. Use requires State Structures Design Office approval.
For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
<tr>
<td>Documentation</td>
<td>Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
<tr>
<td>References</td>
<td>PPM Chapter</td>
<td>Soils and Foundations Handbook 8.2.5</td>
</tr>
<tr>
<td></td>
<td>Other</td>
<td></td>
</tr>
<tr>
<td>Standards</td>
<td>Specifications</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Plan Detail and/or Tech Spec Required</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prep &amp; Doc Manual Chapter(s)</td>
<td></td>
</tr>
</tbody>
</table>

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

**Status**

**Struct.** 455-39- A MINIPILE FOUNDATION SYSTEMS- FURNISH AND INSTALL

A= Nominal Pile Diameter

blank (unspecified)

1 (10" Diameter)

2 (12" Diameter)

3 (14" Diameter)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*

<table>
<thead>
<tr>
<th>455-76-</th>
<th>WRAP PILE CLUSTERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit</td>
<td>EA</td>
</tr>
<tr>
<td>Accuracy</td>
<td>Each</td>
</tr>
<tr>
<td>PlanQuantity?</td>
<td>no</td>
</tr>
</tbody>
</table>

**Notes**

Details

Repair/Rehab Projects only.

Intended on fender repair projects.

Show locations in plans w/ quantity block.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
<tr>
<td>Documentation</td>
<td>Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
</tr>
</tbody>
</table>
### Construction
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### Notes
**Details**
Intended for Pile or Pier installation of Zinc or Titanium anode, installed as routine maintenance on H-piles and steel sheet piles used for seawalls. Show locations in plans with quantity block. Contact State Materials Office, Corrosion Lab for assistance in use of this item.

Electrical Work paid under item 400-60-A.

DO NOT USE this item with 400-142 (Cathodic Protection for mass concrete or structural components) or 457 items (integral pile jackets).

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

### Related Items
**Required** 400-60  
**Recommended**

**Forms**
- **Design**: SHTabQuant  
- **Construction**: Refer to Comp Book

**Documentation**
- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References
- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**

Plan Detail and/or Tech Spec Required

---

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0455 76</td>
<td>WRAP PILE CLUSTERS</td>
<td>EA</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$540.89</td>
</tr>
</tbody>
</table>

**455- 81-ABB** CATHODIC PROTECTION

**Notes**
**Details**
Intended for Pile or Pier installation of Zinc or Titanium anode, installed as routine maintenance on H-piles and steel sheet piles used for seawalls. Show locations in plans with quantity block. Contact State Materials Office, Corrosion Lab for assistance in use of this item.

Electrical Work paid under item 400-60-A.

DO NOT USE this item with 400-142 (Cathodic Protection for mass concrete or structural components) or 457 items (integral pile jackets).

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**
**Required** 400-60  
**Recommended**

**Forms**
- **Design**: SHTabQuant  
- **Construction**: Refer to Comp Book

**Documentation**
- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References
- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**

Plan Detail and/or Tech Spec Required
**Struct. 455-81-ABB CATHODIC PROTECTION EA**

**A = Operation**
1. Furnish & Install
2. Furnish
3. Install

**BB =**
01. Pile, Zinc Anode Assembly
02. Pier, Zinc Anode Assembly
04. Pile, Titanium Anode Assembly
05. Pier, Titanium Anode Assembly
06. Other

---

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0455 81101</td>
<td>CATHODIC PROTECTION, F&amp;I, PILE, ZINC ANODE ASSEMBLY PROTECTION</td>
<td>EA</td>
<td></td>
<td>1/1/2007</td>
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<td>$1,148.86</td>
</tr>
<tr>
<td>0455 81104</td>
<td>CATHODIC PROTECTION, F&amp;I, PILE, TITANIUM ANODE PROTECTION</td>
<td>EA</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$10,373.86</td>
</tr>
</tbody>
</table>

**455-87- STEEL ANCHOR BAR**

**Unit** EA  **Accuracy** Each  **PlanQuantity?** no

**Notes**

Intended for wall anchor tiebacks to connect wall to dead men, or anchor piles. Not for prestressed soil anchor applications. Show locations in plans w/ quantity block. Design for sacrificial thickness and coat with coal tar epoxy, if required.

**Related Items**

**Required** | SHTabQuant | COMP 700-050-03

**Forms**

**Design** | Refer to Comp Book

**Documentation**

**Design** | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Construction** | Record final quantity on the tabulation sheet (plans) or computation form (comp book).

---

**Prep & Doc Manual Chapter(s)**: 6, 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

---

Details and Structure: Items 400 to 499
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0455 87</td>
<td>ANCHOR BAR, STEEL</td>
<td>EA</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$1,275.51</td>
</tr>
</tbody>
</table>

**455- 88- AA  DRILLED SHAFT**

**Unit** LF; M1  
**Accuracy** Linear Foot; 10th of a Meter  
**PlanQuantity?** no

**Notes**

**Details**

Intended to pay for the cost of concrete and steel, temporary casing, all labor, materials, equipment and incidentals necessary to complete the drilled shaft. Length is measured from top-of-shaft elevation to the design tip elevation shown in the plans. Pay Item 455-122-XAA is required with this item. Pay Item 455-122 covers the cost of the shaft excavation. Clearly specify in plans CSL testing requirements as required. Cost of Shaft Inspection Device included in cost of drilled shaft, 455-88-XAA. CSL tubes included under 455-88-XAA. CSL testing paid for under Item 455-142.

**Related Items**

**Required** 455-122 (2455-122)  
**Recommended** 455-142 when CSL testing is required

**Forms**

**Design** SHTabQuant  
**Construction** Refer to Comp Book

**Documentation**

**Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.  
**Construction** Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

**PPM Chapter**  
**Other** SDG's 3.6  
**Standards**  
**Specifications**

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

**Status**

**Struct.** 455- 88- AA  
**DRILLED SHAFT**  
**LF**

AA =  
1 (24" Dia.)  
2 (30" Dia.)  
3 (36" Dia.)  
4 (42" Dia.)  
5 (48" Dia.)  
6 (60" Dia.)  
7 (72" Dia.)  
8 (54" Dia.)  
9 (66" Dia.)  
19 (90" Dia.)  
20 (108" Dia.)  
21 (96" Dia.)

**Notes**

------------------------------------------------------------------

Details and Structure: Items 400 to 499
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0455 88 3</td>
<td>DRILLED SHAFT, 36&quot; DIA</td>
<td>LF</td>
<td>1/1/2007</td>
<td>1/1/2007</td>
<td>$270.23</td>
<td></td>
</tr>
<tr>
<td>0455 88 4</td>
<td>DRILLED SHAFT, 42&quot; DIA</td>
<td>LF</td>
<td>1/1/2007</td>
<td>1/1/2007</td>
<td>$507.30</td>
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</tr>
<tr>
<td>0455 88 5</td>
<td>DRILLED SHAFT, 48&quot; DIA</td>
<td>LF</td>
<td>1/1/2007</td>
<td>1/1/2007</td>
<td>$380.15</td>
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</tr>
<tr>
<td>0455 88 6</td>
<td>DRILLED SHAFT, 60&quot; DIA</td>
<td>LF</td>
<td>1/1/2007</td>
<td>1/1/2007</td>
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</tr>
<tr>
<td>0455 88 7</td>
<td>DRILLED SHAFT, 72&quot; DIA</td>
<td>LF</td>
<td>1/1/2007</td>
<td>1/1/2007</td>
<td>$947.63</td>
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<tr>
<td>0455 88 8</td>
<td>DRILLED SHAFT, 54&quot; DIA</td>
<td>LF</td>
<td>1/1/2007</td>
<td>1/1/2007</td>
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</tr>
<tr>
<td>0455 88 21</td>
<td>DRILLED SHAFT, 96&quot; DIA</td>
<td>LF</td>
<td>1/1/2007</td>
<td>1/1/2007</td>
<td>$600.00</td>
<td></td>
</tr>
</tbody>
</table>

**455-89-AA DRILLED SHAFT TIP GROUTING**

**Unit**: EA  
**Accuracy**: Each  
**Plan Quantity?**: no

**Notes**

Intended for the post grouting of drilled shaft tips after installation. The item includes all materials, hardware, and labor to perform the work.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

**Required**: 455-122 (2455-122), 455-88- AA (2455-88- AA)  
**Recommended**:  

**Forms**

**Design**: SHTabQuant  
**Construction**: Refer to Comp Book

**Documentation**

**Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.  
**Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

**PPM Chapter**: SDG's 3.6  
**Other**: SDG's 3.6  
**Standards**:  
**Specifications**: Plan Detail and/or Tech Spec Required

**Prep & Doc Manual Chapter(s)**: 6, 7, 13

**TRNS*PORT Category (DRAFT FIELD)**: 0100 Structures

**Struct.**: 455-89-AA DRILLED SHAFT TIP GROUTING

AA =  
1 (24" Dia.)  
2 (30" Dia.)  
3 (36" Dia.)  
4 (42" Dia.)  
5 (48" Dia.)  
6 (60" Dia.)  
7 (72" Dia.)  
8 (54" Dia.)  
9 (66" Dia.)

Details and Structure: Items 400 to 499
### LOAD TEST- OSTERBERG

**Unit**: EA  
**Accuracy**: Each  
**PlanQuantity?**: no

**Notes**

Intended to load test drilled shafts using Osterberg Cells. Show location and test load of o-cells test shafts. Show number and depth of o-cells for each test shaft.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>455-129-XXA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recommended</td>
<td>455-131- and 455-132-</td>
</tr>
</tbody>
</table>

**Related to**

- **455-103-ABB**: LOAD TEST- STATNAMIC

**Forms**

- **Design**: SHTabQuant  
- **Construction**: Ref to Comp Book

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- **PPM Chapter**
- **Soils and Foundations Handbook 10.3.3**
- **Other**: Other

**Prep & Doc Manual Chapter(s)**

- **TRNS*PORT Category (DRAFT FIELD)**: 0100 Structures

**Struct.** 455-101- A LOAD TEST- OSTERBERG

**A =**

1 (Less Than 5 Cells)  
2 (5 Or More Cells)

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0455101 1</td>
<td>TEST LOAD, OSTERBERG CELL, LESS THAN FIVE CELLS</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$200,000.00</td>
</tr>
</tbody>
</table>

**455-103-ABB**: LOAD TEST- STATNAMIC

**Unit**: EA  
**Accuracy**: Each  
**PlanQuantity?**: no

---

Details and Structure: Items 400 to 499
Intended for Statnamic load testing of piles or drilled shafts. Show location and test load of test shafts or piles.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

### Related Items

**Required** 455-129- A

**Recommended** 455-131- and 455-132-

**Forms**

**Design** SHTabQuant

**Construction** Refer to Comp Book

**Documentation**

**Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Construction** Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### Notes

Plan Detail and/or Tech Spec Required

**Prep & Doc Manual Chapter(s)** 6, 7, 13

----------

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

**Struct.** 455-103-ABB

**LOAD TEST- STATNAMIC**

**EA**

A = Type

1 (Compression)

2 (Lateral)

BB = Test Capacity

01 (100 Tons)

02 (200 Tons)

03 (300 Tons)

04 (400 Tons)

05 (500 Tons)

06 (600 Tons)

07 (700 Tons)

08 (800 Tons)

09 (900 Tons)

10 (1000 Tons)

11 (1100 Tons)

12 (1200 Tons)

13 (1300 Tons)

14 (1400 Tons)

15 (1500 Tons)

16 (1600 Tons)

30 (3000 Tons)

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
455-107- AA  DRILLED SHAFT CASING

Unit  LF; M1  Accuracy  Linear Foot; 10th of a Meter  PlanQuantity?  no

Notes
Intended on drilled shaft projects when plans require permanent casing method be used. Permanent casing is typically not paid for separately for portions of shaft in waterway unless permanent casing method is required for shaft below the mud line. Show locations and depths in drilled shaft data table.

Related Items
Required  455-122- AA, 455-88- AA  Recommended

Forms
Design  SHTabQuant  COMP 700-050-03
Construction  Refer to Comp Book

Documentation
Design  Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction  Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References
PPM Chapter
Other  SDG’s 3.6
Standards
Specifications

Prep & Doc Manual Chapter(s)  6, 7, 13

TRNS*PORT Category (DRAFT FIELD):  0100  Structures

Status
Struct.  455-107- AA  DRILLED SHAFT CASING  LF

AA =
1  (24" Dia.)
2  (30" Dia.)
3  (36" Dia.)
4  (42" Dia.)
5  (48" Dia.)
6  (60" Dia.)
7  (72" Dia.)
8  (54" Dia.)
9  (66" Dia.)
18  (84" Dia.)
19  (90" Dia.)
20  (108" Dia.)
21  (96" Dia)

Notes
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
---

**Item Description**

<table>
<thead>
<tr>
<th>Item</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0455107 3</td>
<td>LF</td>
<td>DRILLED SHAFT CASING, 36&quot; DIAMETER</td>
<td>1/1/2007</td>
<td></td>
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</tr>
<tr>
<td>0455107 4</td>
<td>LF</td>
<td>DRILLED SHAFT CASING, 42&quot; DIAMETER</td>
<td>1/1/2007</td>
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<td>$130.00</td>
</tr>
<tr>
<td>0455107 5</td>
<td>LF</td>
<td>DRILLED SHAFT CASING, 48&quot; DIAMETER</td>
<td>1/1/2007</td>
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<tr>
<td>0455107 6</td>
<td>LF</td>
<td>DRILLED SHAFT CASING, 60&quot; DIAMETER</td>
<td>1/1/2007</td>
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<tr>
<td>0455107 7</td>
<td>LF</td>
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<td>1/1/2007</td>
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</tr>
<tr>
<td>0455107 21</td>
<td>LF</td>
<td>DRILLED SHAFT CASING, 96&quot; DIAMETER</td>
<td>1/1/2007</td>
<td></td>
<td>$725.00</td>
</tr>
</tbody>
</table>

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**455-111- CORE/PILOT HOLE- DRILLED SHAFT EXCAVATION**

**Unit** LF; M1  
**Accuracy** Linear Foot; 10th of a Meter  
**PlanQuantity?** no

**Notes**

Intended for payment of pilot holes or cores for drilled shaft projects to determine the quality of the material below the tip.  
Pilot holes are taken at shaft locations prior to shaft excavation.  
Cores are taken below the tip of an excavated shaft.  
Pilot holes or cores when deemed necessary, are typically taken 3 to 5 shaft diameters below the shaft’s planned tip elevation. Use 3 shaft diameters unless otherwise noted in the plans.  
Show location in the plans. Clarify whether pilot holes or cores are to be taken. Base quantity on the anticipated pilot hole and/or core length needed. Include pay item note.

Establish quantities as follows:  
Cores: measured from the bottom of shaft elevation to the bottom of the core (3 to 5 shaft diameters below tip);  
Pilot holes: measured from the ground elevation to the bottom elevation of the pilot hole (3 to 5 shaft diameters below tip).

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>455-88- AA, 455-122- AA</td>
<td>COMP 700-050-03</td>
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**Forms**

<table>
<thead>
<tr>
<th>Design</th>
<th>Construction</th>
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<tbody>
<tr>
<td>SHTabQuant</td>
<td>Refer to Comp Book</td>
</tr>
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**Documentation**

<table>
<thead>
<tr>
<th>Design</th>
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<tr>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
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</tr>
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**References**

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Other Standards Specifications</th>
<th>Prep &amp; Doc Manual Chapter(s)</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>6, 7, 13</td>
</tr>
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</table>

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

---

**Details and Structure: Items 400 to 499**

---
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0455111</td>
<td>CORE-PILOT HOLE, DRILLED SHAFT EXCAVATION</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$27.29</td>
</tr>
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</table>

**455-112- A  PILE- AUGER GROUTED**

**Unit** LF; M1  
**Accuracy** Linear Foot; 10th of a Meter  
**PlanQuantity?** no

**Notes**
Intended for payment of auger cast piles to support miscellaneous structures. Do not use with Pay Item 534-72-1AA. Cost of sound barrier foundations included in the cost of sound barrier wall. Not for use to support bridge structures.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
</table>

**Forms**

<table>
<thead>
<tr>
<th>Design</th>
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<tr>
<td>SHTabQuant</td>
<td>Refer to Comp Book</td>
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**Documentation**

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<th>Construction</th>
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**References**

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<th>Other</th>
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<th>Specifications</th>
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<tr>
<td></td>
<td>Soils and Foundations Manual 8.2.4, SDG’s 3.1</td>
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<td></td>
</tr>
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</table>

**TRNS*PORT Category (DRAFT FIELD):**

0100 Structures

**Notes**

**Struct. 455-112- A  PILE- AUGER GROUTED  LF**

A =  
1 (16" Diameter)  
2 (14" Diameter)  
3 (24" Diameter)  
4 (30" Diameter)

**455-119-ABB  LOAD TEST- STATIC**

**Unit** EA  
**Accuracy** Each  
**PlanQuantity?** no

**Notes**
Intended for static axial or lateral load testing of piles or drilled shafts. Not used for Osterberg-Cell or Statnamic tests. Show location and test load in plans.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>455-129- A</td>
<td>455-131- and 455-132- required for test located on water</td>
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</table>

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Details and Structure: Items 400 to 499
### Forms

<table>
<thead>
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<th>Design</th>
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<th>COMP 700-050-03</th>
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<tr>
<td>Construction</td>
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### Documentation

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<td>Construction</td>
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### References

- **PPM Chapter**
- **Other**
  - Soils and Foundations Handbook 10.3.1
- **Standards**
- **Specifications**

**Prep & Doc Manual Chapter(s)**: 7, 13

### TRNS*PORT Category (DRAFT FIELD): 0100 Structures

### Status

#### Struct. 455-119-ABB

**LOAD TEST- STATIC**

| EA |

A = Type Load

1 (Compression)

2 (Tension)

3 (Lateral)

BB = Amount Of Load

01 (0 - 50 Tons)

02 (51 - 100 Tons)

03 (101 - 600 Tons)

04 (601 -1200 Tons)

05 (1201-1800 Tons)

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tr>
<td>0455119103</td>
<td>LOAD TEST-STATIC, COMPRESSION,101-600 TONS</td>
<td>EA</td>
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<td>1/1/2007</td>
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<tr>
<td>0455119201</td>
<td>LOAD TEST-STATIC, TENSION, 0-50 TONS</td>
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<td>0455119301</td>
<td>LOAD TEST-STATIC, LATERAL, 0-50 TONS</td>
<td>EA</td>
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#### 455-120- A

**PILE POINT PROTECTION**

<table>
<thead>
<tr>
<th>Unit</th>
<th>EA</th>
<th>Accuracy</th>
<th>Each</th>
<th>PlanQuantity?</th>
</tr>
</thead>
</table>

### Notes

Details

Intended for steel "H" or pipe piling and steel sheet piling projects when borings show soils that may be difficult to penetrate. Show locations in plans w/ quantity block

**Related Items**

| Required | 455-35, 455-133 |

| Recommended |

### Forms

<table>
<thead>
<tr>
<th>Design</th>
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<th>COMP 700-050-03</th>
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<td>Construction</td>
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### Details and Structure: Items 400 to 499
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<tbody>
<tr>
<td>0455120 1</td>
<td>PILE POINT PROTECTION, HP 14&quot; X 89&quot;</td>
<td>EA</td>
<td>1/1/2007</td>
<td>$250.00</td>
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<td>0455120 2</td>
<td>PILE POINT PROTECTION, 20&quot; SQ</td>
<td>EA</td>
<td>1/1/2007</td>
<td>$250.00</td>
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<tr>
<td>0455120 3</td>
<td>PILE POINT PROTECTION, 24&quot;</td>
<td>EA</td>
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<td>0455120 4</td>
<td>PILE POINT PROTECTION, HP 14&quot; X 117&quot;</td>
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<td>1/1/2007</td>
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### 455-122- AA UNCLASSIFIED SHAFT EXCAVATION

**Unit** LF; M1  
**Accuracy** Linear Foot; 10th of a Meter  
**PlanQuantity?** no

**Notes**
Intended for the excavation of the drilled shafts. Pay Item 455-88-XAA is required with this item. Quantity is the depth of excavated hole from ground elevation to tip of shaft.

**Related Items**  
**Required** 455-88- AA  
**Recommended**

**Forms**  
**Design** SHTabQuant  
**Construction** Refer to Comp Book

**Documentation**  
**Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.  
**Construction** Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**  
**PPM Chapter**  
**Other** SDG’s 3.6  
**Standards**  
**Specifications**  
**Prep & Doc Manual Chapter(s)** 6, 7, 13

---

**Details and Structure: Items 400 to 499**
### Struct. 455-122- AA UNCLASSIFIED SHAFT EXCAVATION LF

AA =  
1 (24" Diameter.)  
2 (30" Diameter.)  
3 (36" Diameter.)  
4 (42" Diameter.)  
5 (48" Diameter.)  
6 (60" Diameter.)  
7 (72" Diameter.)  
8 (54" Diameter.)  
9 (66" Diameter.)  
19 (90" Diameter.)  
20 (108" Diameter.)  
21 (96" Diameter.)

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<tr>
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<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0455122 3</td>
<td>EXCAVATION UNCLASSIFIED SHAFT, 36&quot; DIA</td>
<td>LF</td>
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<td>$139.70</td>
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<tr>
<td>0455122 4</td>
<td>EXCAVATION UNCLASSIFIED SHAFT, 42&quot; DIA</td>
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<td>LF</td>
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<td>1/1/2007</td>
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<td>$240.00</td>
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<tr>
<td>0455122 7</td>
<td>EXCAVATION UNCLASSIFIED SHAFT, 72&quot; DIA</td>
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<td>0455122 8</td>
<td>EXCAVATION UNCLASSIFIED SHAFT, 54&quot; DIA</td>
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<td>0455122 21</td>
<td>EXCAVATION UNCLASSIFIED SHAFT, 96&quot; DIA</td>
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<td>1/1/2007</td>
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<td>$250.00</td>
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</table>

**455-129- A INSTRUMENTATION AND DATA COLLECTION**

<table>
<thead>
<tr>
<th>Unit</th>
<th>LS/LS</th>
<th>Accuracy</th>
<th>Lump Sum</th>
<th>PlanQuantity?</th>
<th>yes</th>
</tr>
</thead>
</table>

**Notes**

Intended for use with all static, statnamic and Osterberg Cell load tests.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

- **Required**: 455-101, 455-103, or 455-119
- **Recommended**

**Forms**

- **Design**: SHTabQuantLS  
- **Construction**: Refer to Comp Book

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
- **Construction**: Final pay quantity will be PLAN QUANTITY with proper consideration for...
Specifications tolerances.

**References**

**PPM Chapter**

**Other**

Soils and Foundations Handbook 10.3

**Standards**

**Specifications**

Plan Detail and/or Tech Spec Required

**Prep & Doc Manual Chapter(s)** 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

**Status**

**Struct.** 455-129- A

INSTRUMENTATION AND DATA COLLECTION

LS/LS

A =

1 (Pile Foundation)

2 (Drilled Shaft Foundation)

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<th>Valid Date</th>
<th>Obsolete Date</th>
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<tbody>
<tr>
<td>0455129 2</td>
<td>INSTRUMENTATION &amp; DATA COLLECT, DRILL SHAFT FOUND</td>
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<td>1/1/2007</td>
<td></td>
<td></td>
<td>$20,000.00</td>
</tr>
</tbody>
</table>

**455-131-**

PLATFORM, WORKING SERVICE

**Unit** EA

**Accuracy** Each

**PlanQuantity?** no

**Notes**

Details

Intended for access platform at pile/shaft test site. Use with all static, statnamic and Osterberg Cell load test projects when tests are located in waterway or on land tests where access is difficult.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

**Required** 455-101, 455-103, or 455-119

**Recommended**

**Forms**

**Design** SHTabQuant

COMP 700-050-03

**Construction** Refer to Comp Book

**Documentation**

**Design**

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Construction**

Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

**PPM Chapter**

**Other**

**Standards**

**Specifications**

Plan Detail and/or Tech Spec Required

**Prep & Doc Manual Chapter(s)** 7, 13
Struct. 455-131- PLATFORM, WORKING SERVICE EA

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

455-132- PLATFORM, REMOTE OBSERVATION

| Unit | EA | Accuracy | Each | PlanQuantity? | no |

Notes

Intended for survey platform at test pile/shaft. Use with all static, static/namic and Osterberg Cell load test projects when tests are located in waterway or on land tests where access is difficult.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

Required 455-101, 455-103, or 455-119

Recommended

Forms

Design SHTabQuant

Construction Refer to Comp Book

Documentation

Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

Status Inactive Structure

Struct. 455-132- PLATFORM, REMOTE OBSERVATION EA

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

455-133- SHEET PILING, STEEL

| Unit | SF; M2 | Accuracy | Square Foot; 10th of a Square Meter | PlanQuantity? | yes |

Notes

PERMANENT: Complete designs and details must be provided in the plans including the Steel sheeting section, begin and end stations, top and bottom pile elevations.
TEMPORARY: This item should be utilized for temporary sheet pile installations that are installed at "critical locations." Critical walls" are walls necessary to maintain the safety of the traveling public or structural integrity of nearby structures, roadways and utilities during construction.

For temporary critical walls requiring soil anchors, dead men etc., provide full details in plans (design of wale, soil anchor spacing and load, dead men anchor, number of proof test and creep test required, etc.).

Complete design and details must be provided in the plans including the section modulus, begin and end stations, top and bottom pile elevations. See 455-12.6.2 for additional information.

TRNS*PORT Category: When walls are used for construction of a structure and shown in the structures plans, load the item in the corresponding structures category. When walls are used for other applications (roadway or utilities), load the item in the corresponding category.

MEASUREMENT: The area to be paid for will be measured from top of pile elevation to bottom of pile elevation and longitudinally from beginning to end of wall, as shown in the plans.

PAYMENT: PLAN QUANTITY will be the basis of payment to the contractor. No separate payment will be made for the cost of the anchor system for anchored

---

**Related Items**

**Forms**
- **Required**: SHTabQuant
- **Recommended**: COMP 700-050-01
- **Construction**: Refer to Comp Book

**Documentation**
- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
- **Construction**: Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**
- **PPM Chapter**: SDG’s 3.5
- **Other**: SDG’s 3.5

**Prep & Doc Manual Chapter(s)**: 6, 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 100 or 200 Structures or Roadway

**Status**
- **Struct.**: 455-133- A SHEET PILING, STEEL SF

**A =**
- 2 (Temporary- Critical)
- 3 (Furnish & Install Permanent)

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<th>TSP/Detail</th>
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<tbody>
<tr>
<td>0455133 2</td>
<td>SHEET PILING STEEL, TEMPORARY-CRITICAL</td>
<td>SF</td>
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<tr>
<td>0455133 3</td>
<td>SHEET PILING STEEL, F&amp;I PERMANENT</td>
<td>SF</td>
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**455-137-** LOAD TEST- DYNAMIC

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
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</tr>
</thead>
<tbody>
<tr>
<td>EA</td>
<td>Each</td>
<td>no</td>
</tr>
</tbody>
</table>

Details and Structure: Items 400 to 499
Valid through December 2008; refer to specification changes for Section 455.

For Project let January 2009 and later: No separate payment will be made for Dynamic Load Tests. For Test Piles, Dynamic Load tests will be incidental to the Test Piling. For Production piles, Dynamic Load Test will be paid as additional length of piling, according to Section 455 of the specifications.

For projects let through December 2008: Intended on driven piling projects for PDA testing. Quantity given should be equal to the number of test piles called out on the Foundations Layout Sheet.

Required 455-143-XAA, 455-144-XAA, 455-145-XXA
Recommended

Related Items

Forms

Design SHTabQuant
Construction Refer to Comp Book

Documentation

Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter
Other Soils and Foundation Handbook 10.1, 10.2

Prep & Doc Manual Chapter(s) 6, 7, 13

Notes

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Related Items

Required 455-88, 455-122-XAA
Recommended

Forms

Design SHTabQuant
Construction Refer to Comp Book

Documentation

Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

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<th>Description</th>
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<th>TSP/Detail</th>
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<tr>
<td>0455137</td>
<td>TEST LOAD- DYNAMIC</td>
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455-142- CROSSHOLE SONIC LOGGING

Unit EA
Accuracy Each
PlanQuantity? no

Notes

Intended for integrity testing of drilled shafts. CSL tubes are required to be placed in all drilled shafts, but only a portion of shafts will actually be tested. Determine number of shafts to be CSL tested; identify shafts in the plans.

This pay item should NOT be included for projects containing only miscellaneous structures with drilled shafts smaller than 60 inches in diameter.

If the Engineer suspects defects in a drilled shaft installation, additional CSL testing may be required if the installation is found to be defective, no additional payment will be made for testing or required corrections. If the installation is found to meet specifications, then payment for CSL testing will be made as unforeseeable work.

Related Items

Required 455-88, 455-122-XAA
Recommended

Forms

Design SHTabQuant
Construction Refer to Comp Book

Documentation

Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Details and Structure: Items 400 to 499
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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</table>

455-143- AA TEST PILES- PRESTRESSED CONCRETE

- **Unit**: LF; M1
- **Accuracy**: Linear Foot; 10th of a Meter
- **PlanQuantity?**: no

**Notes**

For Projects let January 2009 and later: Intended to cover cost and installation of the prestressed concrete test piling. Includes the payment for dynamic load test on test piles. Quantity computed as the total anticipated length of pile, without allowances for cutoffs, splices, or preforming.

For projects let through December 2008: Intended to cover cost and installation of the prestressed concrete test piling. PDA paid for separately under item 455-137. Intended to cover cost and installation of the prestressed concrete piling. Quantity computed as the total anticipated length of pile, without allowances for cutoffs, splices, or preforming.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

- **Required**: 455-137, 455-34
- **Recommended**: 455-137, 455-34

**Forms**

- **Design**: SHTabQuant
- **Construction**: Refer to Comp Book

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- **PPM Chapter**: 6, 7, 13
- **Other**: Soils and Foundation Handbook 10.1, 10.2
Specifications

*Selected Items may require Tech Spec and/or Plan Detail

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100  Structures

Struct.  455-143- AA  TEST PILES- PRESTRESSED CONCRETE  LF

AA =
1 (12" Sq.)
2 (14" Sq.)
3 (18" Sq.)
4 (20" Sq.)
5 (24" Sq.)
6 (30" Sq.)
7 (36" Dia)
8 (Special)*

Notes  * Special may require Tech Spec and/or Plan Detail

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tr>
<td>0455143 1</td>
<td>TEST PILES-PRESTRESSED CONCRETE, 12&quot; SQ</td>
<td>LF</td>
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<tr>
<td>0455143 3</td>
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<td>0455143 5</td>
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<td>1/1/2007</td>
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<td>$595.00</td>
</tr>
</tbody>
</table>

455-144- AA  TEST PILES- STEEL

Unit  LF; M1  Accuracy  Linear Foot; 10th of a Meter  PlanQuantity?  no

Notes

Details

Intended to cover cost and installation of the steel test piling. PDA paid for separately under item 455-137.

Design quantity computed as the total anticipated length of test pile without allowances for cutoffs, splices or preforming. Show locations on Foundation Layout Sheet. Give test pile lengths in Pile Installation Table.

Construction/Final quantity for Test Piles is computed as follows:

\[
\text{Sum of test pile lengths} + [(0.3) \times \text{Sum of required preformed pile hole depths for test piles}]
\]

Do not add allowances for splices.

Include quantity for preformed holes only if preforming is known to be required and shown in the plans. Do not use as contingency.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of
payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
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<tr>
<td>Forms</td>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
<tr>
<td>Documentation</td>
<td>Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
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<tr>
<td></td>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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<tr>
<td>Standards</td>
<td>PPM Chapter</td>
<td></td>
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<tr>
<td></td>
<td>Other</td>
<td>Soils and Foundation Handbook 10.1, 10.2</td>
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**Specifications**

*Selected Items may require Tech Spec and/or Plan Detail

**Prep & Doc Manual Chapter(s)** 7, 13

---

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

**Status**

**Struct.** 455-144- AA TEST PILES- STEEL LF

AAA =
1 (Hp 8 X 36)
2 (Hp 10 X 36)
3 (Hp 10 X 42)
4 (Hp 12 X 53)
5 (Hp 14 X 73)
6 (Hp 14 X 89)
7 (Hp 14 X 102)
8 (Hp 14 X 117)
9 (Special)*
20 (18" Dia Pipe)
21 (20" Dia Pipe)
22 (24" Dia Pipe)
23 (30" Dia Pipe)

**Notes**

* Special may require Tech Spec and/or Plan Detail

---

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0455144 6</td>
<td>TEST PILES - STEEL, HP 14 x 89</td>
<td>LF</td>
<td>1/1/2007</td>
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<td>0455144 9</td>
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**455-145- A TEST PILE- CONCRETE CYLINDER PILES**

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<tr>
<th>Unit</th>
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<tr>
<td>LF; M1</td>
<td>Linear Foot; 10th of a Meter</td>
<td>no</td>
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**Notes**

Details and Structure: Items 400 to 499
Intended to cover cost and installation of the prestressed concrete test piling. PDA paid for separately under item 455-137. Design quantity computed as the total anticipated length of test pile without allowances for cutoffs, splices or preforming. Show locations on Foundation Layout Sheet. Give test pile lengths in Pile Installation Table.

Construction/Final quantity for Test Piles is computed as follows:
(Sum of test pile lengths) + [(0.3) x Sum of required preformed pile hole depths for test piles]
Do not add allowances for splices.

Include quantity for preformed holes only if preforming is known to be required and shown in the plans. Do not use as contingency.

**Related Items**

<table>
<thead>
<tr>
<th>Forms</th>
<th>Required</th>
<th>455-137, 455-34</th>
<th>Recommended</th>
</tr>
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<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-03</td>
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</tr>
<tr>
<td>Construction</td>
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**Documentation**

<table>
<thead>
<tr>
<th>Design</th>
<th>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</th>
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<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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**References**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Other</td>
<td>Soils and Foundation Handbook 10.1, 10.2</td>
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</table>

**Specifications**

| Prep & Doc Manual Chapter(s) | 7, 13 |

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**TRNS*PORT Category (DRAFT FIELD):**

0100 Structures

**Struct. 455-145- A**

**TEST PILE- CONCRETE CYLINDER PILES**

**Unit**

| EA | Accuracy | Each | PlanQuantity? | no |

**Notes**

Effective January 2007. Implemented by mandatory specification change and Structures Temporary Design Bulletin

to be used with all prestressed concrete test piles. Estimate a quantity of 1 per test pile. Each collector system will include gauges at the top and tip, as well as antenna and incidental equipment for installation in each pile, as shown in the standard.

**Related Items**

<table>
<thead>
<tr>
<th>Forms</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-03</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
<td></td>
</tr>
</tbody>
</table>

**Notes**

Record final quantity on the tabulation sheet (plans) or computation form (comp book).
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<td>EA</td>
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**457-1-AB STANDARD INTEGRAL PILE JACKET**

<table>
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<tr>
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<th>Accuracy</th>
<th>PlanQuantity?</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>LF; M1</td>
<td>Linear Foot; 10th of a Meter</td>
<td>no</td>
<td>New Item effective 1-1-2009; replaces 457-70 items</td>
</tr>
</tbody>
</table>

**Details**

Intended for rehabilitation projects to repair concrete pile damage or to protect sheet piles. Project details (plans or specs) must include jacket lengths. Grout material(s) should be specified in the plans or specifications. Epoxy Grout filler may be used ONLY with permission of the State Materials Office, Corrosion Lab.

Estimate quantity based on measurement from the bottom of the form to the top of the form, per the specifications. Show locations in plans w/ quantity block. Contact State Materials Office, Corrosion Lab for assistance in use of this item.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

**Required**

- Design: SHTabQuant
- Construction: Refer to Comp Book

**Recommended**

- Design: COMP 700-050-03
- Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- PPM Chapter
- Other
- Standards
- Specifications

**Plan Detail and/or Tech Spec Required**

**Prep & Doc Manual Chapter(s)**

6, 7, 13
Struct.  457- 1- AB  STANDARD INTEGRAL PILE JACKET  LF

A = Type
1 (non-structural)
2 (Structural)

B = Pile Size
1 (up to 16")
2 (16.1 to 30")
3 (30.1 and larger)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

457-2-AB  CATHODIC PROTECTION INTEGRAL PILE JACKET

Unit  LF; M1  Accuracy  Linear Foot; 10th of a Meter  PlanQuantity?  no

Notes

New Item effective 1-1-2009; replaces 457-71 items

Details

Intended for rehabilitation projects to repair concrete pile corrosion damage. Project details (plans or specs) must include jacket lengths, anode type and configuration, as well as connection methods and materials for cathodic protection. Grout material(s) should be specified in the plans or specifications.

Estimate quantity based on measurement from the bottom of the form to the top of the form, per the specifications. Show locations in plans w/ quantity block. Contact State Materials Office, Corrosion Lab for assistance in use of this item.

Electrical Work will be paid under 400-60, when required for impressed current jackets. For galvanic jackets, include a note in the plans or specifications indicating that electrical work is incidental to the cost of the integral Cathodic protection pile jacket.

See items 400-142 (structure) and 455-81 (pier or pile) for other Cathodic Protection work.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
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</thead>
<tbody>
<tr>
<td>Forms Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-03</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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<tr>
<td>Documentation Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
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<tr>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
<td></td>
</tr>
<tr>
<td>References PPM Chapter</td>
<td></td>
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<tr>
<td>Other Standards Specifications</td>
<td>Plan Detail and/or Tech Spec Required</td>
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</table>

Prep & Doc Manual Chapter(s)  6, 7, 13

Details and Structure: Items 400 to 499
**Struct. 457-2-AB**  
CATHODIC PROTECTION INTEGRAL PILE JACKET  

A = Type  
1 (non-structural)  
2 (Structural)  

B = Pile Size  
1 (up to 16")  
2 (16.1 to 30")  
3 (30.1 and larger)  

**Notes**  
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.  

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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<tbody>
<tr>
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<td>CATHODIC PROTECTION INTEGRAL PILE JACKET, NON-STRUCTURAL, 16.1-30.&quot;</td>
<td>LF</td>
<td>T</td>
<td>1/1/2009</td>
<td></td>
<td>$1.00</td>
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</table>

**457-70-ABB**  
INTEGRAL PILE JACKET  

**Unit**  
LF; M1  

**Accuracy**  
Linear Foot; 10th of a Meter  

**PlanQuantity?**  
no  

**Notes**  
Valid through 12-31-2008; replaced by 457-1 and 457-2 items  

**Details**  
Intended for rehabilitation projects to repair concrete pile corrosion damage or to protect steel piles.  
Contact State Materials Office, Corrosion Lab for assistance in use of this item.  
Show locations in plans w/ quantity block.  

Grout material(s) and jacket lengths should be specified in the plans or specifications.  
Epoxy Grout filler may be used ONLY with permission of the State Materials Office,  
Corrosion Lab.  

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.  

**Related Items**  

**Forms**  
Required  
Design  
SHTabQuant  
Recommended  
COMP 700-050-03  
Construction  
Refer to Comp Book  

**Documentation**  
Design  
Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.  
Construction  
Record final quantity on the tabulation sheet (plans) or computation form (comp book).  

**References**  
PPM Chapter  
Other  
Specifications  
Prep & Doc Manual Chapter(s) 6, 7, 13
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<th>Item</th>
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<tr>
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<td>0457 70206</td>
<td>INTEGRAL PILE JACKET, PORT CEMENT GROUT FILLER, 20”</td>
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<tr>
<td>0457 70305</td>
<td>PILE JACKET INTEGRAL (CLASS III CONC FIL)(18”)</td>
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<td>0457 70401</td>
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</table>

**457- 71- AB**  
CATHODIC PROTECTION- INTEGRAL PILE JACKET

**Unit**  
LF; M1

**Accuracy**  
Linear Foot; 10th of a Meter

**PlanQuantity?**  
no

**Notes**  
Valid through 12-31-2008; replaced by 457-2 items

**Details**  
Coordinate with the State Materials Office, Corrosion Lab for assistance in use of this item. Intended for rehabilitation projects to repair piles with corrosion damage using cathodic protection. Show locations and jacket lengths in plans w/ quantity block. Electrical Work paid under item 400-60-A. See items 400-142 (structure) and 455-81 (pier or pile) for related work.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**  
**Required**  
400- 60-  
**Recommended**  

**Forms**  
**Design**  
SHTabQuant  
**COMP 700-050-03**
### Construction

Refer to Comp Book

### Design

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

### Construction

Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References

#### PPM Chapter

Other

#### Standards

Specifications

Plan Detail and/or Tech Spec Required

#### Prep & Doc Manual Chapter(s)

6, 7, 13

---

**TRNS*PORT Category (DRAFT FIELD):** 0100  Structures

### Status

**Struct.** 457- 71- AB  CATHODIC PROTECTION- INTEGRAL PILE JACKET  LF

A =
1 (Galvanic Cathodic Protection Non-Structural)
2 (Galvanic Cathodic Protection Structural)
3 (Impressed Current Cathodic Protection Non-Structural)
4 (Impressed Current Cathodic Protection Structural)
5 (Other)

B= Pile Size
1 (up to 16")
2 (16.1 to 30")
3 (30.1 and larger)

### Notes

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref</th>
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<td>0457 71 12</td>
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**458- 1- AB**  BRIDGE DECK EXPANSION JOINT

Unit  LF; M1  Accuracy  Linear Foot; 10th of a Meter  Plan Quantity?  yes

### Notes

Effective January 2007. Replaces several joint seal items

### Details

Refer to Design Standards and Specifications for selection and use of these joints.

Note: Tech Specs are required for selected items, as shown in the pay item structure.

For Bridge Approach Expansion Joints, refer to 370 items.

For Concrete Joint repairs in Structures, refer to 400 items.

### Related Items

Required

Design  SHTabQuant

Recommended

COMP 700-050-03

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Details and Structure: Items 400 to 499
### Status

<table>
<thead>
<tr>
<th>Struct.</th>
<th>458- 1- AB</th>
<th>BRIDGE DECK EXPANSION JOINT</th>
<th>LF</th>
</tr>
</thead>
</table>

- **A= Operation**
  1. (New Construction- F&I)
  2. (Rehabilitation- Clean, Seal, Replace)
- **B= Type**
  1. (Poured Joint with Backer Rod)
  2. (Strip Seal)
  3. (Modular) Note: Tech Spec Required
  4. (Finger Joint) Note: Tech Spec Required
  5. (Compression Elastomeric) Note: For Rehab only
  6. (Other)

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0458 1 11</td>
<td>BRIDGE DECK EXPANSION JOINT, NEW CONSTRUCTION, F&amp;I POURED JOINT WITH BACKER ROD</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$32.33</td>
</tr>
<tr>
<td>0458 1 12</td>
<td>BRIDGE DECK EXPANSION JOINT, NEW CONSTRUCTION, F&amp;I STRIP SEAL</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
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<td>$285.00</td>
</tr>
<tr>
<td>0458 1 13</td>
<td>BRIDGE DECK EXPANSION JOINT, NEW CONSTRUCTION, F&amp;I MODULAR</td>
<td>LF</td>
<td>T</td>
<td>1/1/2007</td>
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<td>$30.00</td>
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<tr>
<td>0458 1 14</td>
<td>BRIDGE DECK EXPANSION JOINT, NEW CONSTRUCTION, F&amp;I FINGER JOINT</td>
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<td>T</td>
<td>1/1/2007</td>
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<td>$1,983.33</td>
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<tr>
<td>0458 1 21</td>
<td>BRIDGE DECK EXPANSION JOINT, REHABILITATION, POURED JOINT WITH BACKER ROD</td>
<td>LF</td>
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<td>1/1/2007</td>
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<td>$40.13</td>
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<td>0458 1 22</td>
<td>BRIDGE DECK EXPANSION JOINT, REHABILITATION, STRIP SEAL</td>
<td>LF</td>
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459- 71- PILES, POLYETHYLENE SHEETING

<table>
<thead>
<tr>
<th>Unit</th>
<th>SY; M2</th>
<th>Accuracy</th>
<th>Square Yard; Square Meter</th>
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</thead>
<tbody>
<tr>
<td>Plan Quantity?</td>
<td>no</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes
Details:
Intended on piling or drilled shaft projects to wrap portion of end bent pile or shaft within the fill height to reduce down-drag. Add note on Foundation Layout Sheet. Pay quantity is the pile area wrapped.

Required
Recommended

Forms
Design: SHTabQuant
Construction: Refer to Comp Book

Documentation
Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References
PPM Chapter
Other: Soils and Foundations Handbook 8.3.3

Prep & Doc Manual Chapter(s): 6, 7, 13

Status
Struct. 459- 71- PILES, POLYETHYLENE SHEETING SY

Notes
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<tr>
<th>Item</th>
<th>Description</th>
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<th>Obsolete Date</th>
<th>LRE Ref</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>0459 71</td>
<td>PILES, POLYETHYLENE SHEETING</td>
<td>SY</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$4.86</td>
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</table>

460- 1- AA STRUCTURAL STEEL- REHAB

Notes
Details:
Do not use for new steel structures. This item will be used on all rehabilitation work only. Show steel quantities in quantity blocks on plans. Pay for painting of structural steel separately. Conduct lead based paint survey. Add general note to alert Contractor of existing lead based paint.

Related Items
Required: 560- 1
Recommended

Forms
Design: SHTabQuant
Construction: Refer to Comp Book

Documentation
Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN
QUANTITY will be basis of payment to the Contractor.

**Construction** Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

### References

**PPM Chapter**

**Other**

**Specifications**

**Prep & Doc Manual Chapter(s)**  7, 13

---

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

### Status

**Struct.  460- 1- AA**

**STRUCTURAL STEEL- REHAB**

<table>
<thead>
<tr>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
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<tbody>
<tr>
<td>4600 1 1</td>
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<td>LB</td>
<td>1/1/2007</td>
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<td>4600 1 2</td>
<td>STRUCT STEEL (LOW ALLOY)</td>
<td>LB</td>
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<td>4600 1 3</td>
<td>STRUCTURAL STEEL - REHABILITATION, SHOE ASSEMBLIES</td>
<td>LB</td>
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<tr>
<td>4600 1 5</td>
<td>STRUCTURAL STEEL - REHABILITATION, BASCULE LEAVES</td>
<td>LB</td>
<td>1/1/2007</td>
<td>$10.57</td>
</tr>
<tr>
<td>4600 1 11</td>
<td>STRUCTURAL STEEL REHAB-SCREWS,BOLTS &amp; WASHER ASSEMBLIES</td>
<td>LB</td>
<td>1/1/2007</td>
<td>$21.39</td>
</tr>
<tr>
<td>4600 1 13</td>
<td>STRUCTURAL STEEL REHAB- BOLTS, NUTS, WASHERS &amp; PLATES</td>
<td>LB</td>
<td>1/1/2007</td>
<td>$41.14</td>
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<tr>
<td>4600 1 15</td>
<td>STRUCTURAL STEEL - REHABILITATION, MISCELLANEOUS</td>
<td>LB</td>
<td>1/1/2007</td>
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**460- 2- AA**

**STRUCTURAL STEEL- NEW/WIDENING**

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
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<tbody>
<tr>
<td>LS/LB; LS/KG</td>
<td>Pound; Kilogram</td>
<td>yes</td>
</tr>
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</table>

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**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*
Intended for new construction of steel structures and bridge widenings. When painting is specified, cost of painting is incidental to this item. WEATHERING item used when uncoated weathering steel is specified. CARBON item used for Grades 36 and higher including weathering steel when painted. LOW ALLOY item used for Grade 50 steel. BASCULE LEAVES item used for all grades of steel in bascule leaf except steel used for decking, and steel counterweight blocks. When flanking span remains within the limits of bascule pier, pay under BASCULE PIERS. If not, include under CARBON or LOW ALLOY. Cost of F-shaped or vertical shape steel traffic railing barrier located on bascule leaf included in steel quantity under BASCULE PIERS. Leaf Centering Device Assembly included in steel quantity under BASCULE LEAVES. BASCULE PIERS item used for all grades of steel in bascule pier except for steel for decking. Cost of F-shaped or vertical shape steel traffic railing barrier located within limits of bascule pier included in steel quantity under BASCULE PIERS. Calculate weight of steel for estimating purposes only. Due not tabulate steel quantities in the plans. On steel box girder projects add note to include cost of all access hatches, and screen doors in cost on structural steel.

**Details**

**Basis of Estimates**

**2009 Edition**

**October 6, 2008**

**Related Items**

**Required**

**Design**

<table>
<thead>
<tr>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>SHTabQuantLS</td>
</tr>
<tr>
<td>COMP 700-050-05</td>
</tr>
</tbody>
</table>

**Construction**

Refer to Comp Book

**Documentation**

**Design**

Use a quantity of 1, but calculations and documentation must be to the second unit of measure. Locate or define the scope of work involved on the plans.

**Construction**

Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

**Status**

**Struct.** 460- 2- AA

STRUCTURAL STEEL- NEW/WIDENING LS/LB

AA =
1 (Carbon)
2 (Low Alloy)
3 (Shoe Assemblies)
5 (Bascule Leaves)
6 (Bascule Piers)
15 (Miscellaneous)
18 (Carbon, Truss)
19 (Low Alloy, Truss)
20 (Weathering)

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0460 2 1</td>
<td>STRUCT STEEL, CARBON</td>
<td>LS</td>
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<td>1/1/2007</td>
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<td></td>
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<tr>
<td>0460 2 2</td>
<td>STRUCT STEEL, LOW ALLOY</td>
<td>LS</td>
<td></td>
<td>1/1/2007</td>
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<td></td>
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</tr>
<tr>
<td>0460 2 5</td>
<td>STRUCT STEEL, BASCULE LEAVES</td>
<td>LS</td>
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<td>STRUCT STEEL, BASCULE PIERS</td>
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<td>0460 2 20</td>
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<td>1/1/2007</td>
<td></td>
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<td>$3.45</td>
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</tbody>
</table>

**460- 6- LADDERS & PLATFORMS**

**Notes**

Intended for both steel and aluminum ladders and platforms when necessary for personnel/maintenance access. Clearly define location w/ quantity block in plans.

**Related Items**

**Required**

**Recommended**

**Forms**

**Design**

SHTabQuant

COMP 700-050-06

**Construction**

Refer to Comp Book

**Documentation**

**Design**

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

**Construction**

Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

**Status**

**Struct.** 460- 6- LADDERS & PLATFORMS LB

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0460 6</td>
<td>LADDERS &amp; PLATFORMS</td>
<td>LB</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$13.66</td>
</tr>
</tbody>
</table>

**460- 13- A STRUCTURAL STEEL REHAB- SANDWICH PLATE SYSTEM**

**Notes**

Experimental Item. Requires State Structures Design Office Approval / FHWA

**Details**

Must be coordinated with State Structures Design Office.

Consists of Furnishing and Installing Sandwich Plate System, including wearing surface, bridge deck, and supporting stringer.

For Plan Detail/Tech Spec items: The Designer should ensure that the description,
requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

### Related Items

<table>
<thead>
<tr>
<th>Forms</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-01</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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</tr>
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</table>

### Documentation

| Design | Location in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor. |
| Construction | Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances. |

### Notes

**Plan Detail and/or Tech Spec Required**

**Prep & Doc Manual Chapter(s)**

---

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

### Status

**Struct.  460- 13-  A STRUCTURAL STEEL REHAB- SANDWICH PLATE SYST**

A=
1 (Deck and Stringer)
2 (Deck)

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

#### 460- 70-  A ALUMINUM BULLET RAILINGS

<table>
<thead>
<tr>
<th>Unit</th>
<th>LF; M1</th>
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</thead>
<tbody>
<tr>
<td>Accuracy</td>
<td>Linear Foot; 10th of a Meter</td>
</tr>
<tr>
<td>PlanQuantity?</td>
<td>yes</td>
</tr>
</tbody>
</table>

**Notes**

**Details**

Consists of furnishing and installing bullet railing on top of traffic railing barriers and parapets to protect pedestrians or bicycles. Note details on Indexes 423, 820, 821, and 822. For other aluminum railings, refer to Index Series 860 and 870, and pay items 515-1-xxa and 515-2-xxa.

### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
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</thead>
<tbody>
<tr>
<td>521- 6-  A when Index 820 Ped Bicycle railing is used</td>
<td></td>
</tr>
</tbody>
</table>

### Forms

| Design | SHTabQuant |
| Construction | Refer to Comp Book |

### Documentation

| Design | Location in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor. |
| Construction | Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances. |
Standards Index No. 423, 820, 821, 822
Specifications
Prep & Doc Manual Chapter(s) 6, 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 100 or 200 Structures or Roadway

**Status**

**Struct.** 460-70- A **ALUMINUM BULLET RAILINGS** LF

\[ A = \]
1 (Single Rail)
2 (Double Rail)
3 (Triple Rail)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<th>TSP/Detail</th>
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<th>LRE Ref Price</th>
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<tr>
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<tr>
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</table>

**460-71- A METAL TRAFFIC RAILING**

**Unit** LF; M1  **Accuracy** Linear Foot; 10th of a Meter  **PlanQuantity?** yes

**Notes**

Consists of furnishing and installing metal traffic barriers, for new construction or Barrier Retrofit. Show location in plans and include in quantity block.

**Related Items**

**Required**

**Forms** Design SHTabQuant COMP 700-050-03

**Construction** Refer to Comp Book

**Documentation**

**Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

**Construction** Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**

**PPM Chapter**

**Other** SDG’s 6.7

**Standards** Index 470 through 476

**Specifications**

**Prep & Doc Manual Chapter(s)** 6, 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 100 or 200 Structures or Roadway

**Status**

**Struct.** 460-71- A **METAL TRAFFIC RAILING** LF

Details and Structure: Items 400 to 499
A =
1 (Thrie Beam Retrofit)
2 (Steel Post And Rail)*
3 (Steel Post and Rail-Retaining Wall System Maintenance)

**Notes**
*Non-standard; custom design may be required.

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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<td>METAL TRAFFIC RAILING, THRIE BEAM RETROFIT</td>
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<td>METAL TRAFFIC RAILING, STEEL POST AND RAIL</td>
<td>LF</td>
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<td>1/1/2007</td>
<td></td>
<td>$345.65</td>
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</table>

460-81- A  RIVET / HIGH STRENGTH BOLT REPLACEMENT

**Unit** EA  **Accuracy** Each  **PlanQuantity?** no

**Details**
For Rehabilitation projects only.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
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<tr>
<td>Design</td>
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<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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</table>

**Documentation**

<table>
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<tr>
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<th>Construction</th>
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</thead>
<tbody>
<tr>
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<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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</table>

**References**

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Other</th>
<th>Standards</th>
<th>Specifications</th>
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<td></td>
<td></td>
<td>Plan Detail and/or Tech Spec Required</td>
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</table>

**Prep & Doc Manual Chapter(s)** 7, 13

**TRNS*PORT Category (DRAFT FIELD):**  100 or 200  Structures or Roadway

**Status**

<table>
<thead>
<tr>
<th>Struct.</th>
<th>460-81- A RIVET / HIGH STRENGTH BOLT REPLACEMENT</th>
<th>EA</th>
</tr>
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<tbody>
<tr>
<td>A =</td>
<td>Blank (Standard)</td>
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<tr>
<td></td>
<td>1 (Special)</td>
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**Notes**

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The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

---

Details and Structure: Items 400 to 499
## Topic No. 600-000-002

### Basis of Estimates

#### 2009 Edition

October 6, 2008

<table>
<thead>
<tr>
<th>Item</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<td>$150.00</td>
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</table>

### 460- 95- STRUCTURAL STEEL REPAIR

- **Unit**: LB; KG
- **Accuracy**: Pound; Kilogram
- **PlanQuantity?**: yes

**Notes**

Intended on rehabilitation projects for in-place heat straightening. Quantity based on weight of steel components to be repaired. Show locations in the plans w/ pay item note to address all work items required.

**Details**

Required 460- 1-XAA  
Recommended

**Related Items**

- **Forms**
  - Design: SHTabQuant  
  - Construction: Refer to Comp Book

**Documentation**

- Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
- Construction: Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**

- PPM Chapter
- Other
- Standards
- Specifications

**Prep & Doc Manual Chapter(s)**: 7, 13

---

**TRNS*PORT Category (DRAFT FIELD)**: 0100 Structures

**Status**

**Struct. 460- 95- STRUCTURAL STEEL REPAIR LB**

**Notes**

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<td>LB</td>
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### 460- 98- A PIPE HANGER

- **Unit**: EA
- **Accuracy**: Each
- **PlanQuantity?**: no

**Notes**

Details

to be used ONLY for non-drainage system applications such as structure utility attachments. When deck inserts are required for utility attachments by others, do not include this item. Deck inserts are included in the cost of the superstructure concrete. Show location spacing w/ quantity block in plans.

**Note**: Pipe hangers for bridge drainage system paid for under 506-2.

**Related Items**

- **Forms**
  - Design: SHTabQuant  
  - Construction: COMP 700-050-03

---

Details and Structure: Items 400 to 499

Page 130 of 146
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
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<th>Obsolete Date</th>
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Details and Structure: Items 400 to 499
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**461-113- AB**  MULTI ROTATIONAL BEARING ASSEMBLY

**Notes**

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<th>Unit</th>
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<tbody>
<tr>
<td>EA</td>
<td>Each</td>
<td>no</td>
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</table>

**Details**

Intended furnish and installing pot, disc or cylindrical bearing assemblies. Include location w/ quantity block in plans.

**Related Items**

**Forms**

- **Required**: Design - SHTabQuant
- **Recommended**: Construction - COMP 700-050-03

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- **PPM Chapter**: SDG's 6.5
- **Other**: SDG's 6.5

**Prep & Doc Manual Chapter(s)**: 7, 13

---

**TRNS*PORT Category (DRAFT FIELD):** 0100  Structures

**Struct.** 461-113- AB  MULTI ROTATIONAL BEARING ASSEMBLY  EA

A = Operation
1 (Furnish & Install)

B =
1 ( 1 - 250 Kips)
2 ( 251 - 500 Kips)
3 ( 501 - 750 Kips)
4 ( 751 - 1000 Kips)
5 (1001 - 1250 Kips)
6 (1251 - 1500 Kips)
7 (1501 - 1750 Kips)
8 (1751 - 2000 Kips)
9 ( > = 2001 Kips)

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
### Basis of Estimates

<table>
<thead>
<tr>
<th>Item</th>
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<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0461113 12</td>
<td>MULTIROTATIONAL BEARING ASSEM-FIXED, F&amp;I, 251-500 KIPS</td>
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### 461-114- AB MULTI ROTATIONAL BEARING ASSEMBLY- EXPANSION

**Unit** EA  
**Accuracy** Each  
**PlanQuantity?** no

**Notes**
Intended furnish and installing pot, disc or cylindrical bearing assemblies. Include location w/ quantity block in plans.

**Related Items**

**Required**  
**Design** SHTabQuant  
**Construction** Refer to Comp Book

**Recommended**  
**Design** COMP 700-050-03

**Construction** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Record final quantity on the tabulation sheet (plans) or computation form (comp book).**

**Documents**

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Other Standards</th>
<th>Specifications</th>
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<tbody>
<tr>
<td>SDG’s 6.5</td>
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**Prep & Doc Manual Chapter(s)** 7, 13

**TRNS**PORT Category (DRAFT FIELD): 0100 Structures

**Struct.** 461-114- AB MULTI ROTATIONAL BEARING ASSEMBLY- EXPANSION

A = Operation  
1 (Furnish & Install)

B =  
1 ( 1 - 250 Kips)  
2 ( 251 - 500 Kips)  
3 ( 501 - 750 Kips)  
4 ( 751 - 1000 Kips)  
5 (1001 - 1250 Kips)

Details and Structure: Items 400 to 499
### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
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#### 462-2-AA POST TENSIONING TENDONS

**Notes**

**Details**

**Related Items**

- **Forms**
  - Required Design: SHTabQuant
  - Recommended Design: COMP 700-050-06
- **Construction**
  - Refer to Comp Book

**Documentation**

- **Design**
  - Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
- **Construction**
  - Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**

- PPM Chapter
- Other
- Standards
- Specifications

**Prep & Doc Manual Chapter(s)** 7, 13
Struct.  462-  2- AA  POST TENSIONING TENDONS  LB

AA =
11 (Superstructure Strand)
12 (Superstructure Bar)
13 (Substructure Strand)
14 (Substructure Bar)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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462-  3-  ADDITIONAL POST-TENSIONING IN SEGMENTAL BOX SPAN

Unit     EA  Accuracy  Each  PlanQuantity?  no

Notes

Details

Intended for rehabilitation projects intended to strengthen span with the installation of additional post-tensioning. Show location in plans. Include a schedule of post tensioning tendons w/ quantity block in plans. Include a pay item notes as necessary to cover the work activity.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
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</tr>
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<tbody>
<tr>
<td>Forms Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-03</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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<tr>
<td>Documentation Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
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<tr>
<td></td>
<td>Construction</td>
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References

PPM Chapter
Other
Standards
Specifications
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD):  0100  Structures

Status  Inactive Structure

Struct.  462-  3-  ADDITIONAL POST-TENSIONING IN SEGMENTAL BOX  EA  SPAN

Notes
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### 462-20- A POST TENSIONING REPAIR

**Unit**: EA; LF; CF  
**Accuracy**: Each; Linear Foot; Cubic Foot  
**PlanQuantity?**: no

#### Notes Details

NOT FOR USE ON NEW CONSTRUCTION. Details to be included in Tech Specs.

- **Tendon Inspection**: Do not include repairs under this item, except for repair of inspection holes.
- **Anchorage Inspection**: Do not include void repairs or pour backs under this item.
- **Tendon Repair Set-up**: to be used every time a void is detected and is to cover the cost of installing injection and outlet points, preparing to fill void, and sealing of these areas after completion. Shop drawings may be required.
- **Replace Anchorage Protect Sys**: Includes replacement of the tendon anchorage protect system.
- **Repair External Ducts**: Not for use to repair areas damaged while repairing voids.
- **Tendon Replace**: Remove & replace complete tendons, including anchorage components, placement & stressing new tendon, grouting, inspection, and protection system.
- **Grout Tendon Voids**: Includes installation & material, detailed in Tech Spec.
- **Install Grout Ports**: includes drilling and installing grout ports suitable for connection to grouting equipment.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

#### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
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<tr>
<td>Design</td>
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<tr>
<td>Construction</td>
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</table>

#### Documentation

| Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. |
| Construction | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

#### References

<table>
<thead>
<tr>
<th>PPM Chapter</th>
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<tr>
<td>Other</td>
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#### Standards Specifications

Plan Detail and/or Tech Spec Required

#### Prep & Doc Manual Chapter(s)

---

**TRNS** PORT Category (DRAFT FIELD): 0100 Structures

**Struct.** 462-20- A POST TENSIONING REPAIR EA; LF; CF

A=
1 (Tendon Inspection) LF  
2 (Anchorage Inspection) EA  
3 (Tendon Repair Set-up) EA  
4 (Replace Anchorage Protection System) EA  
5 (Repair External Tendon Ducts) LF  
6 (Replace Tendon) LF

---

Details and Structure: Items 400 to 499
7 (Vacuum Grout Tendon Voids) CF
8 (Pressure Grout Tendon Voids) CF
9 (Install Grout Ports) EA

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item Number</th>
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465- 1- MOVABLE BRIDGE- MECHANICAL EQUIPMENT

<table>
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<th>Unit</th>
<th>LS/LS</th>
<th>Accuracy</th>
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<td>Construction</td>
<td>Refer to Comp Book</td>
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Notes

For new bridge construction only. Intended for furnishing and installing complete mechanical system for bascule bridge. Includes all mechanical equipment and appurtenances (speed reducer and gear train, trunnion assemblies, span locks, couplings, live load shoes, flat & curved tracks, plain journal bearings, spherical bearings, supports and brackets, hydraulic systems, and all other equipment/service) required for a complete mechanical system on new bascule bridges. Clearly define scope of work in plans and specifications.

Contact State Structures Design for boiler plate Specification 465 to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

Required
Design
Refer to Comp Book

Recommended
SHTabQuantLS
COMP 700-050-05

Forms

Documentation

Design
Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction
Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter
SDG’s Chapter 8

Other
Standards
Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<tr>
<th>Item</th>
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<th>TSP/Detail</th>
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465- 2-ABB MOVABLE BRIDGE MACHINERY AND CASTINGS- REHAB

**Unit**: LS/LS; EA; AS  **Accuracy**: Lump Sum; Each; Assembly  **PlanQuantity?**: yes

**Details**

Intended for rehabilitation projects for bascule bridge machinery and castings. For new structures, the complete machinery system is included under 465-1, LS. Contact C.O. Structures Design for boiler plate 465 Specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

**Required**: SHTabQuantLS  **Recommended**: COMP 700-050-05

**Forms**

- Design: SHTabQuantLS  - Construction: Refer to Comp Book

**Documentation**

- Design: LUMP SUM ITEMS: Use a quantity of 1. No form required. Locate or define the scope of work involved on the plans.

- Construction: Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**

- PPM Chapter
- Other
- Standards
- Specifications

Plan Detail and/or Tech Spec Required

**Prep & Doc Manual Chapter(s)**

---

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures
6 (Remove & Dispose) Note: Contractor takes ownership
7 (Remove & Stockpile/Salvage) Note: DOT/maintaining agency retains ownership
8 (Field Machining)

BB= Equipment
01 (Speed Reducer And Gear Train) LS/LS
04 (Trunion Assembly) EA
05 (Span Locks) AS
07 (Couplings) EA
08 (Live Load Shoes) LS/LS
10 (Flat Rack, Curved Rack, Flat Track) EA
11 (Hopkins Frame) EA
21 (Plain Journal Bearing) EA
22 (Spherical Bearing) EA
52 (Hydraulic Cylinder) EA
53 (Hydraulic Motor) EA
54 (Hydraulic Power Pack) EA
55 (Temporary Hydraulic System) EA
60 (Other Machinery Components) LS

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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465-3-AB MOVABLE BRIDGE COUNTERWEIGHT

**Unit**: EA; TN; MT  
**Accuracy**: Each; Ton; Metric Ton  
**Plan Quantity?**: no

**Notes**
- Applies for either rehabilitation or new bridge projects. Intended for work items related to bascule bridge counterweights (balance calculations, balance blocks, steel ballast, transition slabs, sump pumps, bumper blocks). Steel ballast intended for bulk steel counterweight (transition slabs, steel plates). Show location & quantity block in plans. When using "Adjust" item, Tech Spec must clearly define method of measurement: adjustment of each bridge, leaf, or after specific operations.

Details and Structure: Items 400 to 499
For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

**Required**

**Forms**
- Design: SHTabQuant
- Construction: Refer to Comp Book

**Documentation**
- Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**Recommended**

**Standards**

**Specifications**

**Plan Detail and/or Tech Spec Required**

**Prep & Doc Manual Chapter(s)**

---

**TRNS*PORT Category (DRAFT FIELD):**

Status

**Struct.**

```
465- 3- AB MOovable Bridge Counterweight EA; TN
```

A= Operation
1 (Furnish & Install)
5 (Adjust) EA; for A=5, B=0
9 (Clean) Valid for B=6 only

B= Item
1 (Fiberglass Pocket Cover) EA
2 (Sump Pump) EA
4 (Bumper Block) EA
6 (Pockets) EA
7 (Balance Blocks) EA
9 (Steel Ballast) TN

Notes

---

**Details and Structure: Items 400 to 499**

---

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<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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### 465- 4- MOVABLE BRIDGE SPAN JACKING

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**Notes**

Intended for rehabilitation projects to jack bascule span off trunnion supports. Used in conjunction with trunnion reconditioning or bearing replacement. Tech Spec should include jacking procedure, and require that procedures and calculations be completed by a Florida Licensed Engineer.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

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<tr>
<td>Construction</td>
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</table>

**References**

PPM Chapter

**Prep & Doc Manual Chapter(s)**

**Status**

**Struct.** 465- 4- MOVABLE BRIDGE SPAN JACKING

**Notes**

Use a quantity of 1, but calculations and documentation must be to the second unit of measure. Locate or define the scope of work involved on the plans.

Record final quantity on the tabulation sheet (plans) or computation form (comp book).

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### 465- 20- MOVABLE BRIDGE- PREVENTATIVE MAINTENANCE

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<td>Lump Sum (Day)</td>
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**Notes**

This item covers the cost of maintaining a movable bridge during construction.

Contact the Movable Bridge Section of the State Structures Design Office prior to use of this item. Specifications may be available.

**Related Items**

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Page 142 of 146
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**465- 21- MOVABLE BRIDGE OPERATOR**

**Notes**

This item covers the cost of furnishing a bridge tender during construction.

Contact the Movable Bridge Section of the State Structures Design Office prior to use of this item. Specifications may be available.

**Related Items**

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**Prep & Doc Manual Chapter(s)**

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
**MOBILE BRIDGE FUNCTIONAL CHECKOUT**

**Unit**: LS/LS  **Accuracy**: Lump Sum  **PlanQuantity?**: Yes

**Notes**

Phase A to be used to test first-two leaves of a four leaf bascule, Phase B to be used for the second-two leaves, and Phase C to be used for the complete bridge. Sometimes Phase C and Phase B are combined for simplicity. This item is required on all new bascule bridges and on all bascule bridge rehabilitation projects where the leaf operation, weight is being affected.

Where phasing is not required, only a single checkout (Phase C) is required. Contact State Structures Design for boiler plate 465 Specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

**Forms**

- **Required**: SHTabQuantLS
- **Recommended**: COMP 700-050-05

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
- **Construction**: Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**

- **PPM Chapter**: SDG's 8.7.19

**Prep & Doc Manual Chapter(s)**: 6, 7, 13

**TRNS**

**PORT Category (DRAFT FIELD)**: 0100 Structures

**Status**

**Struct**: **465- 71- A**

A = See detail for Phasing
1 (Phase A) for 1st 2 leaves
2 (Phase B) for 2nd leaves
3 (Phase C) for Complete

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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**Details and Structure**: Items 400 to 499
### 470-1- TREATED TIMBER, STRUCTURAL

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<th>Unit</th>
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**Notes**

Intended for the cost of treated structural timber. The quantity of timber to be based on the final width and thickness shown in the plans. When applicable, indicate in the plans the nominal size (2x6) and dressed dimension. Quantity is to be based on the dressed volume. For rough cut or “full sawn” sizes, the nominal size is the finished size and the basis of the quantity. Timber piles paid for under 455-2-XXA.

The board-foot measure is the unit of volume for measuring lumber. One board-foot measure is a 12-inch long 1-inch-by-12-inch volume. MB is per thousand board-foot measure.

**Example calculation:**

800’ - 12X6 Rough Sawn = \( \frac{800 \times 12 \times 6}{12,000} = 4.8 \text{ MB} \)

800’ - 12X6 Dressed Lumber (Dressed 11 \( \frac{1}{2} \) ” X 5 \( \frac{1}{2} \)”) = \( \frac{800 \times 11.5 \times 5.5}{12,000} = 4.2 \text{ MB} \)

**Related Items**

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**Forms**

Refer to Comp Book

**Documentation**

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

**Construction**

Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**

PPM Chapter

Other

Structures Detailing Manual Chapter 12.

**Specifications**

Prep & Doc Manual Chapter(s) 6, 7, 13

**TRNS**^PORT Category (DRAFT FIELD):** 0100 Structures

**Status**

**Struct.** 470-1- TREATED TIMBER, STRUCTURAL MB

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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### 471-1- A FENDER SYSTEM, PLASTIC MARINE LUMBER

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**Notes**

Effective January 2007 letting.

**Details**

to be used for wales and dimensional lumber for fender systems. Plastic piling to be paid separately under Section 455 items.

---

Details and Structure: Items 400 to 499
one board foot= one foot square by one inch thick; convert to thousand board foot for pay item. Refer to Design Standards and Specifications for additional information.

### Related Items

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**Documentation**

| Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor. |
|        | Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances. |

### References

<table>
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<th>PPM Chapter</th>
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<td>Standards</td>
<td>Index No. 21900 thru 21930</td>
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### Prep & Doc Manual Chapter(s)

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

### Status

**Struct.** 471-1-A **FENDER SYSTEM, PLASTIC MARINE LUMBER** MB

A= Reinforcement
1 (Reinforced)
2 (non-reinforced)

### Notes

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*

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<tr>
<th>Item</th>
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Chapter 15

Items 500 to 599
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STEEL ROADWAY FLOOR

Unit: SF; M2  
Accuracy: Square Foot; 10th of a Square Meter  
Plan Quantity?: yes

Notes

Details
Intended for steel grating for sidewalks and bridge decks usually on bascule leaves. Show location w/ quantity block in plans. Make deductions in quantities for openings or joints. When concrete filled decks are called for in the plans, no separate payment is made for fill concrete. See Section 504 for Specifications.

Related Items

Required  
Recommended

Forms
Design: SHTabQuant  
COMP 700-050-01  
Construction: Refer to Comp Book

Documentation
Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction: Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References
PPM Chapter:  
Other:  
Standards:  
Specifications:  
Prep & Doc Manual Chapter(s): 6, 7, 13

---

TRNS*PORT Category (DRAFT FIELD): 0100  
Structures

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<tr>
<th>Item</th>
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<th>Unit</th>
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<th>Valid Date</th>
<th>Obsolete Date</th>
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<td>0504 1 1</td>
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<td>SF</td>
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SIDEWALK FLOOR, STEEL - REHAB

Unit: SF; M2  
Accuracy: Square Foot; 10th of a Square Meter  
Plan Quantity?: yes

Notes

Details and Structure: Items 500 to 599

Page 1 of 81
Details
Intended for rehabilitation projects when steel sidewalks gratings is required without roadway grating. On new bascule bridge projects, include both sidewalk and roadway grating quantity under 504-1. Show location w/ quantity block in plans. Make deductions in quantities for openings or joints. When concrete filled decks are called for in the plans, include cost of the concrete fill under this pay item (add pay item note).

Related Items
Form
Required
Design SHTabQuant
Recommended COMP 700-050-01

Documentation
Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References
PPM Chapter
Other
Specifications

Notes
Details and Structure: Items 500 to 599
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<td>BRIDGE DRAINAGE PIPE</td>
<td>LF</td>
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**Struct.  506- 3- Rehab Steel Floor**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<td>Unit LF; M1</td>
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<tr>
<td>Accuracy Linear Foot; 10th of a Meter</td>
</tr>
<tr>
<td>PlanQuantity? yes</td>
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Notes

Intended for payment for drainage pipes located on bridge structure to convey water from deck inlets to ends of bridge or down to ground at pier locations. Include piping that is cast into concrete components in the quantity. Bridge drains paid separately under 506-3. Show location w/ quantity block in plans.

Related Items

<table>
<thead>
<tr>
<th>Required 506- 3-</th>
<th>Recommended</th>
</tr>
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Forms

Design SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation

Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. 506- 2- BRIDGE DRAIN PIPE LF

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<td>BRIDGE DRAINS</td>
<td>EA</td>
<td>Each</td>
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Notes

Intended for payment for deck inlets located on bridge structure. Bridge piping paid under 506-2. Deck scuppers holes cast into bridge deck should not be paid for under this item unless they consist of a casting. Pay for deck scupper holes under superstructure concrete (add pay item note). Show location w/ quantity block in plans.

Related Items

<table>
<thead>
<tr>
<th>Required 506- 2-</th>
<th>Recommended</th>
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Forms

Design SHTabQuant COMP 700-050-03

Details and Structure: Items 500 to 599
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506- 72- POWER CLEAN BRIDGE DOWN DRAIN

| Notes | Details | Valid for Maintenance Use. Plans or Specifications must detail cleaning requirements including: method(s), permitted chemicals, etc. |

<table>
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<th>Required</th>
<th>Recommended</th>
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</thead>
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<td></td>
<td>Construction</td>
<td>Refer to Comp Book</td>
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TRNS*PORT Category (DRAFT FIELD):

Status

Struct. 506- 72- POWER CLEAN BRIDGE DOWN DRAIN EA

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Details and Structure: Items 500 to 599
**507- 70- ALUMINUM SIDEWALK FLOOR**

| Unit       | SF; M2 | Accuracy      | Square Foot; 10th of a Square Meter | PlanQuantity? | yes |

**Notes**

Intended for aluminum sidewalks usually on bascule leaves. Show location w/ quantities block in plans.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

**Forms**

- **Design**: SHTabQuant
- **Construction**: Refer to Comp Book

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
- **Construction**: Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**

- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**

Plan Detail and/or Tech Spec Required

**Prep & Doc Manual Chapter(s)**: 7, 13

---

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

**Status**

**Struct.** 507- 70-ALUMINUM SIDEWALK FLOOR SF

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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**508- 1- A MOVABLE BRIDGE ELECTRICAL EQUIPMENT**

| Unit | LS/LS | Accuracy | Lump Sum | PlanQuantity? | yes |

**Notes**

For movable bridges only. Clearly define scope of work in plans and specifications. Contact State Structures Design for boiler plate specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

NEW- FURNISH & INSTALL: Includes complete, new, electrical system for bascule...
bridge. Includes all electrical equipment and appurtenances (emergency generator, submarine cable, motors, control console, brakes, programmable controller, motor control center, drive system, CCTV system, navigation lights, gates, signals, and all other equipment/service) required for a complete installation on bascule bridges.

EXISTING- ADJUST/MODIFY/REHAB: Includes all electrical system equipment, components, and/or work not paid for separately under other items. May include furnishing/wiring/installation of new or rehab electrical components.

REMOVAL: Clearly identify which items are to be stockpiled or disposed. For stockpiled items, include a location for delivery (define limits of contractor's work) and a contact name.

### Related Items

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<tbody>
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<td>Construction</td>
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### Documentation

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### Prep & Doc Manual Chapter(s)

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### Status

**Struct. 508- 1- A**

MOVABLE BRIDGE ELECTRICAL EQUIPMENT LS/LS

A= Operation

1 (New- Furnish & Install)

4 (Relocate)

5 (Existing- Adjust/Modify/Rehab)

6 (Remove & Dispose) Note: Contractor takes ownership

7 (Remove & Stockpile/Salvage) Note: DOT/maintaining agency retains ownership

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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### 508- 2- A MOVABLE BRIDGE GATE

Details and Structure: Items 500 to 599
For use on movable bridges only. This item may be used with 508-1 for rehab bridge projects. (DO NOT use on New Bridge Construction.) Clearly define scope of work in plans and specifications. Contact State Structures Design for boiler plate specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

FURNISH & INSTALL: Furnish & Install new gates on an existing bascule bridge.

ADJUST/MODIFY/REHAB: Includes all work and materials necessary for rehab of existing gates. Include pay item 508-1 for other electrical system work.

Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
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<tbody>
<tr>
<td>Forms</td>
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<td>Design</td>
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<td>PPM Chapter</td>
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Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. 508- 2- A MOVABLE BRIDGE GATE AS

A= Operation
1 (Furnish & Install)
4 (Relocate)
5 (Adjust/Modify/Rehab)
6 (Remove & Dispose) Note: Contractor takes ownership
7 (Remove & Stockpile/Salvage) Note: DOT/maintaining agency retains ownership

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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## 508-3- A MOVABLE BRIDGE SIGNAL

### Notes
For use on movable bridges only. This item may be used with 508-1 for rehab bridge projects. (DO NOT use on New Bridge Construction.)

Clearly define scope of work in plans and specifications. Contact State Structures Design for boiler plate specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**FURNISH & INSTALL:** Furnish & Install new signals on an existing bascule bridge.

**ADJUST/MODIFY/REHAB:** Includes all work and materials necessary for rehab of existing signals. Include pay item 508-1 for other electrical system work.

### Related Items

<table>
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<th>Recommended</th>
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<tr>
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<tr>
<td><strong>Construction</strong></td>
<td>Refer to Comp Book</td>
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**Design**

**Construction**

- Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References

<table>
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<th>PPM Chapter</th>
<th>Other</th>
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**Plan Detail and/or Tech Spec Required**

**Prep & Doc Manual Chapter(s)**

---

**TRNS**^PORT Category (DRAFT FIELD):** 0100 Structures

### Status

**Struct.** 508-3- A MOVABLE BRIDGE SIGNAL AS

A= Operation
1 (Furnish & Install)
4 (Relocate)
5 (Adjust/Modify/Rehab)
6 (Remove & Dispose) Note: Contractor takes ownership
7 (Remove & Stockpile/Salvage) Note: DOT/maintaining agency retains ownership

### Notes

---

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*

<table>
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<tr>
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**Details and Structure:** Items 500 to 599
**Notes**

Use 508-1-A, with A= REHAB

**Details**

**Related Items**

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<td>Construction</td>
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**Forms**

- Design
- Construction

**Documentation**

- Design
- Construction

**References**

- PPM Chapter
- Other

**Standards**

- Specifications

**Prep & Doc Manual Chapter(s)**

**TRNS*PORT Category (DRAFT FIELD):**

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**Struct.**

508- 4-

**MOVABLE BRIDGE ELECTRICAL EQUIPMENT, REHAB**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<tbody>
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**508- 72- A**

**MOVABLE BRIDGE EMERGENCY GENERATOR**

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<thead>
<tr>
<th>Unit</th>
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<tbody>
<tr>
<td>Accuracy</td>
<td>Assembly</td>
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</tbody>
</table>

**Notes**

**Details**

Includes standby generator system (generator, transfer switch, control panel, etc.) for bascule bridge rehabilitation projects only.

For new structures, emergency generator is included under 508- 1-. Clearly define work in plans and specifications.

Contact State Structures Design for boiler plate specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

<table>
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<th>Recommended</th>
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<tbody>
<tr>
<td>Design</td>
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</table>

**Forms**

- Design
- Construction

**Documentation**

- Design

**Construction**

- Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

- Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**

- PPM Chapter
- Other
Standards
Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. 508-72- A MOVABLE BRIDGE EMERGENCY GENERATOR AS

A = 1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Remove)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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508-73- A SUBMARINE CABLE ASSEMBLY

Unit LS/LF; LS/M1  Accuracy Lump Sum (Linear Foot);  PlanQuantity? yes Lump Sum (Meter)

Notes

Details

Intended for sub-aqueous cable. For bascule bridge rehabilitation projects only or fixed new bridge projects.

For new bascule bridge projects, submarine cable is included under 508-1-. Clearly define work in plans and specifications. Contact State Structures Design for boiler plate specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

Required Recommended
Forms Design SHTabQuantLS COMP 700-050-05
Construction Refer to Comp Book

Documentation Design

Use a quantity of 1, but calculations and documentation must be to the second unit of measure. Locate or define the scope of work involved on the plans.

Construction

Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter
Other
Standards
Specifications

Plan Detail and/or Tech Spec Required
### 508-73- A  
**SUBMARINE CABLE ASSEMBLY**

A =
- 1 (Furnish & Install)
- 2 (Furnish)
- 3 (Install)
- 4 (Remove)

#### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<tr>
<th>Item</th>
<th>Description</th>
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### 508-76- A  
**MOVABLE BRIDGE REHAB- SPAN MOTORS AND CONTROLLERS**

#### Notes

Includes span drive motors and speed controllers for bascule bridge rehabilitation only. For new structures, span motors are included under 508-1-. Clearly define work in plans and specifications. Contact State Structures Design for boiler plate specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

#### Related Items

**Forms**
- Required: SHTabQuantLS
- Recommended: COMP 700-050-05

**Documentation**
- Design: Refer to Comp Book
- Construction: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

**References**
- PPM Chapter
- Other: SDG’s Chapter 8

Plan Detail and/or Tech Spec Required
Struct. 508-76- A  
MOVABLE BRIDGE REHAB - SPAN MOTORS AND CONTROLLERS  

A =
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Remove)
5 (Recondition)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<tr>
<th>Item</th>
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<td>$1.00</td>
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508-77- A  
MOVABLE BRIDGE REHAB - PROGRAMMABLE LOGIC CONTROLLER

Unit EA Accuracy Each PlanQuantity? no

Details

Includes programmable logic controllers (controllers, I/O racks, power supplies, programming) for bascule bridge rehabilitation only. For new structures, logic controllers are included under 508-1-. Clearly define work in plans and specifications. Contact State Structures Design for boiler plate specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

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References

PPM Chapter
Other
SDG’s Chapter 8
Standards
Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13
**Struct.  508- 77-  A MOVABLE BRIDGE REHAB- PROGRAMMABLE LOGIC CONTROLLER**

A = 1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Remove)
5 (Programming)

**Notes**

---

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*

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**508- 78-  A MOVABLE BRIDGE REHAB- LIMIT SWITCHES AND TRANSDUCERS**

**Notes**

Includes limit switches and transducers for bascule bridge rehabilitation only. For new structures, limit switches and transducers are included under 508- 1-. Contact State Structures Design for boiler plate specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

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**Prep & Doc Manual Chapter(s)** 7, 13
Struct.  508- 78-  A  MOVABLE BRIDGE REHAB- LIMIT SWITCHES AND TRANSUDCERS  LS/LS

A =
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Remove)
5 (Programming)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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508- 79-  A  MOVABLE BRIDGE REHAB- CONTROL CONSOLE

| Unit | EA | Accuracy | Each | PlanQuantity? | no |

Notes

Includes control console and associated equipment (switches, indicating lights, relays, etc.) for bascule bridge rehabilitation only. For new structures, control console is included under 508- 1-. Clearly define work in plans and specifications. Contact State Structures Design Office for boiler plate specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

Required
Design
SHTabQuant
Construction
Refer to Comp Book

Recommended
Design
COMP 700-050-03
Construction

Documentation

Design
Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter
Other
SDG’s Chapter 8

Standards Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)  7, 13

TRNS*PORT Category (DRAFT FIELD):  0100 Structures

Status

Struct.  508- 79-  A  MOVABLE BRIDGE REHAB- CONTROL CONSOLE  EA

A =
Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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508- 80- A MOVABLE BRIDGE REHAB- BRAKE SYSTEM

Notes

Details
Includes brake systems (brake shoes, brake drums, brake operators) for bascule bridge rehabilitation only. For new structures, brake system is included under 508- 1-. Clearly define work in plans and specifications.
Contact State Structures Design for boiler plate specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

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Documentation

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References

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<th>Other</th>
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<tbody>
<tr>
<td>SDG’s Chapter 8</td>
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Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Struct. 508- 80- A MOVABLE BRIDGE REHAB- BRAKE SYSTEM EA

A =
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Remove)
5 (Recondition)
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Description</th>
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508- 82- A MOVABLE BRIDGE REHAB- CONTROL PANEL / MOTOR CONTROLLER

Notes

Includes motor control center and starters for bascule bridge rehabilitation only. For new structures, control panel or motor controller is included under 508- 1-. Clearly define work in plans and specifications.

Contact State Structures Design for boiler plate specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

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<td>Construction</td>
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Documentation

| Design | Location in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. |
| Construction | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

References

PPM Chapter
Other SDG’s Chapter 8

Standards
Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. 508- 82- A MOVABLE BRIDGE REHAB- CONTROL PANEL / MOTOR CONTROLLER

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Recondition)
5 (Replace)*

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Details and Structure: Items 500 to 599
508- 83-ABB  MOBILE BRIDGE REHAB- INTEGRATED DRIVE SYSTEM

Notes
Includes drive systems (motor(s), variable speed drive, shop testing) for bascule bridge rehabilitation only. For new structures, integrated drive system is included under 508- 1-. Contact State Structures Design for boiler plate specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

Forms
Required
Design SHTabQuant
Construction Refer to Comp Book

Documentation
Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References
PPM Chapter SDG’s Chapter 8
Other
Standards
Specifications
Plan Detail and/or Tech Spec Required
Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status
Struct. 508- 83-ABB MOBILE BRIDGE REHAB- INTEGRATED DRIVE SYSTEM

A = Operation
1 (Furnish & Install)
2 (Replace)
3 (Recondition)
4 (Repair)

BB = Drive Type
01 (25 kW Or Less)
02 (26 - 40 kW)
03 (41 - 60 kW)
04 (61 - 80 kW)
05 (81 - 115 kW)
06 (116 - 155 kW)
## 510- 1- A NAVIGATION LIGHTS- FIXED BRIDGE

**Unit** LS/LS; EA  
**Accuracy** Lump Sum; Each  
**PlanQuantity?** yes/no

### Notes

Includes work related to the navigation lights and accessories for fixed bridges, including the fender and channel lights. For bascule bridges, navigation lights included under 508-1.

**FINAL:**
LUMP SUM: No calculations required unless item is to be adjusted. All calculations and documentation of adjustments, in accordance with the Specifications, are required.

EACH: Final quantity must be recorded in space provided on summary sheet in the plans. All changes must be shown on final plan sheets.

### Related Items

**Required**  
**Recommended**

#### Forms

- **Design** SHTabQuantLS  
- **Construction** Refer to Comp Book

#### Documentation

- **Design** LUMP SUM ITEMS: Use a quantity of 1. No form required. Locate or define the scope of work involved on the plans.
- **Construction** Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References

- **PPM Chapter**
- **Other**
- **Standards** Index 21220
- **Specifications**
- **Prep & Doc Manual Chapter(s)** 7, 13

### TRNS*PORT Category (DRAFT FIELD):

- **0100** Structures

### Status

**Struct.** 510- 1- A NAVIGATION LIGHTS- FIXED BRIDGE LS/LS; EA

A =  
Blank (Navigation Lights) LS/LS  
3 (Piers) EA
512- 1- A  MOVABLE BRIDGE- CONTROL HOUSE

| Unit | LS/LS | Accuracy | Lump Sum | PlanQuantity? | yes |

**Notes**

**Details**

Intended for the complete cost of control house for bascule bridges. Include cost of foundation under separate pay items (piling, shaft, etc.) Contact State Structures Design for boiler plate specification to be modified as required for project specifics. Clearly show limits in plans for payment purposes. Include complete bar lists for control house in the plans, Including cost of reinforcing steel for walls and floors.

**Related Items**

**Required**

Design: SHTabQuantLS

**Recommended**

COMP 700-050-05

**Forms**

Construction: Refer to Comp Book

**Documentation**

Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction: Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

**Status**

**Struct.**

512- 1- A  MOVABLE BRIDGE- CONTROL HOUSE  LS/LS

A =

1 (Renovation)

Blank (New)

512-71- A  MOVABLE BRIDGE PLUMBING SYSTEM

| Unit | EA | Accuracy | Each | PlanQuantity? | no |

**Notes**

**Related Items**

**Required**

Design: SHTabQuant

**Recommended**

COMP 700-050-03

**Forms**

Construction: Refer to Comp Book

**Documentation**

Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
**Construction**  
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

**PPM Chapter**

**Other**

**Standards**

**Specifications**

**Prep & Doc Manual Chapter(s)** 6, 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

**Status**

**Struct.** 512-71- A MOVABLE BRIDGE PLUMBING SYSTEM EA

A = Operation  
1 (Furnish & Install)

**Notes**

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.  
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

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The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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**514-71- A FILTER FABRIC, PLASTIC**

**Unit** SY; M2  
**Accuracy** Square Yard; Square Meter  
**PlanQuantity?** no

**Notes**

Intended for Subsurface Drainage or Stabilization applications, as detailed in Section 514 of Specifications.

When this item is incidental to other work, no separate payment is made for filter fabric. Refer to specifications and/or design standards:

Ditch Pavement, Section 524: no separate payment for filter fabric

**Related Items**

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**References**

**PPM Chapter**

**Other**

**Standards** Index No. 199

**Specifications**

**Prep & Doc Manual Chapter(s)** 6, 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

**Struct.** 514-71- A FILTER FABRIC, PLASTIC SY

---

Details and Structure: Items 500 to 599
A =
1 (Subsurface)
2 (Stabilization)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0514 71 1</td>
<td>PLASTIC FILTER FABRIC, SUBSURFACE</td>
<td>SY</td>
<td></td>
<td>1/1/2007</td>
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<td>$2.95</td>
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<td>0514 71 2</td>
<td>PLASTIC FILTER FABRIC, STABILIZATION</td>
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<td>1/1/2007</td>
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<td>$1.38</td>
</tr>
</tbody>
</table>

514-72- LINER IMPERMEABLE PVC

Notes

Details

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

Required

Design: SHTabQuant

Construction: Refer to Comp Book

Documentation

Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. 514-72- LINER IMPERMEABLE PVC SY

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<tr>
<th>Item</th>
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<th>Unit</th>
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<td>0514 72</td>
<td>LINER IMPERMEABLE PVC</td>
<td>SY</td>
<td>T</td>
<td>1/1/2007</td>
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<td>$22.85</td>
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515-1- A PIPE HANDRAIL- GUIDERAIL

Notes

Details and Structure: Items 500 to 599
Details

Two pipe handrail is generally used in locations where drop-off is between 10" and 30". Additional applications may include "steering" pedestrians next to a sidewalk or out of a parking lot (with or without drop-off).

For use next to drop-off greater than 30", refer to Index 800 series and pay items 460-70 or 515-2.

Not valid for use on bridge.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

- Required: Design Specifications
- Recommended: SHTabQuant, COMP 700-050-03

Specifications

- Structural 515-2-ABB PEDESTRIAN/BICYCLE RAILING

**Notes**

- Selected Items may require Tech Spec and/or Plan Detail

Prep & Doc Manual Chapter(s): 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. 515-1-1 PIPE HANDRAIL- GUIDERAIL LF

A =
1 (Steel) per Index 880
2 (Aluminum) per Index 870
5 (PVC)*

Notes

- Plan Details and/or Tech Spec required for PVC materials. Consider weather, UV requirements, etc.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<td>PIPE HANDRAIL- GUIDERAIL, STEEL</td>
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<td>0515 1 2</td>
<td>PIPE HANDRAIL- GUIDERAIL, ALUMINUM</td>
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</tr>
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515-2-ABB PEDESTRIAN/BICYCLE RAILING

Unit LF; M1
Accuracy Linear Foot; 10th of a Meter
PlanQuantity? yes

Notes

to be used for pedestrian railing next to drop-offs greater than 30". Use in accordance with Index 850 and 860; English standards may be used on metric projects.
These specific rails replace the current two rail system, and are intended to be used when there is a drop-off next to a pedestrian or bicycle facility which must be protected. These rails are not intended for use on top of traffic barriers or where vehicle containment is required.

For drop-off locations less than 30", consider item 515-1. For other railings, refer to Index series 800 and pay item 460-70-xxa.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
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<tr>
<td>Forms</td>
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<tr>
<td>Design</td>
<td>SHTabQuant</td>
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<td>Construction</td>
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<tr>
<td>Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.</td>
</tr>
<tr>
<td>Construction</td>
<td>Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.</td>
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</table>

### References

- PPM Chapter: Vol 1, Section 8.8
- Other Standards: Index No. 850 or 860

*Selected Items may require Tech Spec and/or Plan Detail

### Prep & Doc Manual Chapter(s)

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

### Status

**Struct. 515-2-ABB PEDESTRIAN/BICYCLE RAILING LF**

- A = Required Material Types
  - 1 (Non Specified)
  - 2 (Steel Only)
  - 3 (Aluminum Only)
  - 4 (Special)*
- BB = Rail Type
  - 01 (42" Picket Railing)
  - 02 (54" Picket Railing)
  - 03 (Special)*

**Notes**

**"Special" will require plan details and/or Tech Spec**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<td>0515 2202</td>
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</table>

Details and Structure: Items 500 to 599
519-78- BOLLARDS

**Unit**: EA

**Accuracy**: Each

**Plan Quantity?**: yes

**Notes**

Tech Spec should indicate that this is a plan quantity item. Details to consider include: materials, methods and/or construction requirements. Intended for posts placed at the ends of pedestrian or special-use facilities. Space as necessary to restrict certain vehicles, while allowing others.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

<table>
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<tr>
<th>Required</th>
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</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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</table>

**Documentation**

Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction: Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Design</th>
<th>Construction</th>
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<tr>
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</tbody>
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**Prep & Doc Manual Chapter(s)**: 7, 13

**TRNS*PORT Category (DRAFT FIELD)**: 0200 Roadway

**Status**

**Struct.**: 519-78- BOLLARDS EA

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<tr>
<th>Item</th>
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<td>BOLLARDS</td>
<td>EA</td>
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</table>

**520-1-AA CONCRETE CURB AND GUTTER**

**Unit**: LF; M1

**Accuracy**: Linear Foot; 10th of a Meter

**Plan Quantity?**: yes

**Notes**

Details and Structure: Items 500 to 599
Includes construction of concrete curb and/or curb and gutter, and all forming, contraction joint forming, expansion joint construction, steel reinforcement, finishing and backfilling and compaction. Deduct inlet top lengths as shown in the standards from the length of curb and gutter. Length to be measure along the face of the curb. Cost of asphalt curb pad, and additional curb thickness required, to be included in the cost of curb and gutter.

Required Recommended

<table>
<thead>
<tr>
<th>Forms</th>
<th>Design</th>
<th>SHTabQuant</th>
<th>COMP 700-050-02 (with deductions) or 700-050-03 (no deductions)</th>
</tr>
</thead>
</table>

Documentation

Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

Per specification, asphalt curb pad will be included in unit price, when detailed in the plans.

Notes **Special** will require plan details and/or Tech Spec

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0520 1 7</td>
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<td>0520 1 10</td>
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</tr>
</tbody>
</table>

Unit LF; M1

Accuracy Linear Foot; 10th of a Meter

Notes

Details Per specification, asphalt curb pad will be included in unit price, when detailed in the plans.

Related Items

Required SHTabQuant

Recommended COMP 700-050-02 (with deductions) or 700-050-03 (no deductions)

Construction Refer to Comp Book

Documentation Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN
QUANTITY will be basis of payment to the Contractor.

**Construction**
Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**
PPM Chapter
Other

**Standards**
Index No. 300

**Specifications**
Prep & Doc Manual Chapter(s)  6, 7, 13

**TRNS*PORT Category (DRAFT FIELD):**  0200  Roadway

**Status**

**Struct.**  520-2- AA  CONCRETE CURB  LF

AA =
1 (Type A)
2 (Type B)
4 (Type D)
9 (Special)*

**Notes**
**"Special" will require plan details and/or Tech Spec**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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<th>Obsolete Date</th>
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<tr>
<td>0520 2 1</td>
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<td>$41.84</td>
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</table>

**520-3- VALLEY GUTTER, CONCRETE**

Unit  LF; M1  Accuracy  Linear Foot; 10th of a Meter  PlanQuantity?  yes

**Notes**
**Details**

**Related Items**
Required  SHTabQuant  Recommended  COMP 700-050-02 (with deductions) or 700-050-03 (no deductions)

**Forms**
Design  Refer to Comp Book

**Documentation**
Design  Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction  Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**
PPM Chapter
Other

**Standards**
Index No. 300

**Specifications**
Prep & Doc Manual Chapter(s)  6, 7, 13
### 520-3- VALLEY GUTTER, CONCRETE

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<tr>
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<td>1/1/2007</td>
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<td>$26.38</td>
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</tbody>
</table>

### 520-4- CONCRETE GUTTER, SPECIAL

**Notes**

- Calculate carefully to reflect actual scope of work.

**Related Items**

- **Required**
  - Design: SHTabQuant
- **Recommended**
  - Design: COMP 700-050-02 (with deductions) or 700-050-03 (no deductions)

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
- **Construction**: Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**

- PPM Chapter
- Other
  - Standards: Index No. 300
  - Specifications
  - Prep & Doc Manual Chapter(s): 6, 7, 13

### 520-5- AB CONCRETE TRAFFIC SEPARATOR

**Notes**

Includes construction of traffic separator in 4, 6, and 8.5' (1.2, 1.8, and 2.6 meter) widths. Includes all forming, contraction joint forming, expansion joint construction, steel reinforcement, finishing and backfilling and compaction. Include the length of the nose when calculating the linear feet (meters). Refer to Plans Preparation Manual for proper use.
For separator of variable width, consider item 520-70, paid per area.

**Related Items**

**Forms**
- **Required**
  - Design: SHTabQuant

**Construction**
- Refer to Comp Book

**Documentation**
- **Design**
  - Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

**Construction**
- Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**
- **PPM Chapter**
- **Other**
  - **Standards**
    - Index No. 300, 302, 212, 213
  - **Specifications**

**Prep & Doc Manual Chapter(s)**
- 6, 7, 13

**TRNS*PORT Category (DRAFT FIELD):**
- 0200 Roadway

**Struct.**
- 520-5-AB

**CONCRETE TRAFFIC SEPARATOR**
- LF

A =
- 1 (Type I)
- 2 (Type II)
- 4 (Type IV)
- 5 (Type V)

B =
- 1 (4' Wide)
- 2 (6' Wide)
- 6 (8.5' Wide)

**Notes**
- NOTE: A= 1 Thru 6 Valid For Widths Of 4', 6' And 8.5' Only; B = 1, 2 Or 6 Only.
- Selected items blocked 6/30/2001

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<tr>
<th>Item</th>
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<td>0520 521</td>
<td>TRAFFIC SEPARATOR - CONCRETE, TYPE II, 4' WIDE</td>
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<td>$51.69</td>
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</table>
## 520-6- SHOULDER GUTTER, CONCRETE

**Unit**: LF; M1  
**Accuracy**: Linear Foot; 10th of a Meter  
**PlanQuantity?**: yes

**Notes**
Deduct inlet top lengths as shown in the standards from the length of curb and gutter. For Type S, length to be measured along the face of the curb.

**Related Items**
- **Forms**
  - **Design**: SHTabQuant
  - **Recommended**: COMP 700-050-02 (with deductions) or 700-050-03 (no deductions)

**Documentation**
- **Design**: Refer to Comp Book
- **Construction**: Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**
- **PPM Chapter**: Refer to Comp Book
- **Other Standards**: Index No. 220, 284, 300
- **Specifications**: Prep & Doc Manual Chapter(s): 6, 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**
- **Struct. 520-6-** SHOULDER GUTTER, CONCRETE  
**Unit**: LF

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<tr>
<th>Item</th>
<th>Description</th>
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<td>0520 6</td>
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### 520-70- CONCRETE TRAFFIC SEPARATOR, SPECIAL- VARIABLE WIDTH

**Unit**: SY; M2  
**Accuracy**: Square Yard; Square Meter  
**PlanQuantity?**: yes

**Notes**
Includes construction of traffic separator in variable width, as indicated in the plans. Refer to Plans Preparation Manual for proper use. Consider item 520-5 for constant width separator, paid per length.

**Related Items**
- **Forms**
  - **Design**: SHTabQuant
  - **Recommended**: COMP 700-050-01
- **Construction**: Refer to Comp Book

**Documentation**
- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities
sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

**Construction** Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**

PPM Chapter

Other

**Standards** Index No. 302

**Specifications**

Prep & Doc Manual Chapter(s) 6, 7, 13

---

**TRNS**PORT Category (DRAFT FIELD): 0200 Roadway

**Status**

**Struct.** 520-70- CONCRETE TRAFFIC SEPARATOR, SPECIAL-VARIABLE WIDTH SY

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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<th>Obsolete Date</th>
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<tr>
<td>0520 70</td>
<td>CONCRETE TRAFFIC SEPARATOR, SPECIAL-VARIABLE WIDTH</td>
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### 521- 1- A MEDIAN CONCRETE BARRIER WALL

**Unit** LF; M1  
**Accuracy** Linear Foot; 10th of a Meter  
**PlanQuantity?** yes

**Notes**

to be used when calling for concrete barrier wall that is to be located in a median (double face or full wall barrier); see 521-72- (2521-72-) for shoulder wall. Consists of construction of plain or reinforced barrier wall. The contractor may request approval for precast construction in lieu of cast-in-place.

**Related Items**

**Forms**  
Design: SHTabQuant  
Construction: Refer to Comp Book

**Documentation**  
Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

**Construction** Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**

PPM Chapter

Other

**Standards** Index No. 217, 410, 413, 415

**Specifications**

Prep & Doc Manual Chapter(s) 6, 7, 13

---

**TRNS**PORT Category (DRAFT FIELD): 0200 Roadway

**Status**

**Struct.** 521- 1- A MEDIAN CONCRETE BARRIER WALL LF
A =
Blank (Cast In Place)
1 (Precast)
2 (Trapezoidal)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<tr>
<th>Item</th>
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<td>0521 1 1</td>
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<td>$60.61</td>
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521- 5- A CONCRETE TRAFFIC RAILING- BRIDGE

Unit LF; M1
Accuracy Linear Foot; 10th of a Meter
Plan Quantity? yes

Notes

Details
Items to be used in accordance with Standard Indexes. If any modification is made to a standard barrier, the "Special" pay item should be used. Details for any non-standard barrier must be submitted to the Structures Design Office for approval, due to crash testing requirements.
Include barriers located on approach slabs in this item.
Standard Indexes:
Index 420 - 32" F-Shape
Index 425: 42" F-Shape
Index 421: 32" Median, Double Face
Index 423: 32" Vertical Face
Index 422: 42" Vertical Face
Index 424: Corral With Curb
Index 424: Corral W/O Curb
Index 480 thru Index 483: Retrofit-Vertical Face
Index 5210: F–Shaped with Sound Barrier Wall, 8'Ht.

Related Items

<table>
<thead>
<tr>
<th>Forms</th>
<th>Required</th>
<th>Recommended</th>
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<tr>
<td>Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-03</td>
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<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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Documentation

Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter SDG 6.7
Other
Standards See detail for index numbers 420, 421, 422, 423, 424, 425, 480, 481, 482, 483, 5210

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. 521- 5- A CONCRETE TRAFFIC RAILING- BRIDGE LF

Details and Structure: Items 500 to 599
**Topic No. 600-000-002**

**Basis of Estimates**

October 6, 2008

**Notes**

*See details above for use of "Special" item

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The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tr>
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<td>CONCRETE TRAFFIC RAILING, BRIDGE 32&quot; F - SHAPE</td>
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<td>CONCRETE TRAFFIC RAILING, BRIDGE, 32&quot; VERTICAL FACE</td>
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<td>CONCRETE TRAFFIC RAILING, BRIDGE, CORRAL WITHOUT CURB</td>
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<tr>
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<td>CONCRETE TRAFFIC RAILING- BRIDGE, F SHAPED WITH SOUND BARRIER WALL 8' HEIGHT</td>
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**521- 6- A  CONCRETE PARAPET**

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<tbody>
<tr>
<td>LF; M1</td>
<td>Linear Foot; 10th of a Meter</td>
<td>yes</td>
</tr>
</tbody>
</table>

**Notes**

Intended for pedestrian/ bicycle railings located on bridge or on retailing walls. Includes cost of concrete portion of the parapet (including cost of sidewalk as applicable). Railing mounted on the top of parapet are to be paid for separately. Show location w/ quantity block on bridge superstructure sheets and wall sheets as required. When Index 800, Pedestrian Bicycle Railing is utilized, Pay Item 460-70-3 also Required

**Related Items**

- **Required Forms**
  - Design: SHTabQuant
  - Construction: Refer to Comp Book

- **Recommended Forms**
  - Design: COMP 700-050-03

**Documentation**

- Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN
**Struct. 521-6- AA CONCRETE PARAPET LF**

- **AA =**
  - 1 (Pedestrian/Bicycle)
  - 2 (Special)*
  - 3 (Retaining Wall System Mounted w/ Sidewalk)
  - 4 (Retaining Wall System Mounted w/ sidewalk and 8' Sound Wall)

**Notes**

- **“Special” will require plan details and/or Tech Spec**

---

### The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
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<td>1/1/2007</td>
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<tr>
<td>0521 6 3</td>
<td>CONCRETE PARAPET, RETAINING WALL MOUNTED WITH SIDEWALK</td>
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</tbody>
</table>

**521-7- AA CONCRETE TRAFFIC RAILING BARRIER- RETAINING WALL SYSTEM**

- **Unit** LF; M1
- **Accuracy** Linear Foot; 10th of a Meter
- **PlanQuantity?** yes

**Notes**

- Intended for 8' retaining wall mounted sound barrier with junction slab.
- Show location with quantity block on wall sheets

**Related Items**

- **Required** SHTabQuant
- **Recommended** COMP 700-050-03

**References**

- PPM Chapter
- Other
- Standards 5210
- Specifications

---

The above details and structure cover items 500 to 599.
TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. 521-7- AA CONCRETE TRAFFIC RAILING BARRIER- RETAINING WALL SYSTEM

A =
1 (F Shape with Sound Barrier Wall 8'Ht.)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<thead>
<tr>
<th>Item</th>
<th>Description</th>
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</table>

521-8- AA CONCRETE TRAFFIC RAILING BARRIER- RETAINING WALL SYSTEM, MOUNTED WITH SLEEPER SLAB

Unit LF; M1 Accuracy Linear Foot; 10th of a Meter PlanQuantity? yes

Notes

Details

Item to be used in accordance with Standard Indexes. Show location with quantity block in wall plans. Sometimes used with item 521-5-A for traffic railing systems that extend onto bridge.

Related Items

Forms

Design SHTabQuant

Construction Refer to Comp Book

Documentation

Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards Index 420 & 5300-32” F-Shape

Index 425 & 5300-42” F-Shape

Index 423 & 5300-32” Vertical Face

Index 422 & 5300-42” Vertical Face

Index 424 & 5300-Corral With Curb

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. 521-8- AA CONCRETE TRAFFIC RAILING BARRIER- RETAINING WALL SYSTEM, MOUNTED WITH SLEEPER SLAB

AA =
1 (32” F-Shape)
2 (42” F-Shape)
3 (32” Vertical Face)
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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</table>

**Notes**

"Special" will require plan details and/or Tech Spec

**Details**

Intended for rigid shoulder roadway barriers with 8'-14' shoulder mounted sound barrier walls and box culvert mounted barriers. Use 521- 1- (2521- 1-) for median wall.

**Required Forms**

- Design: SHTabQuant
- Construction: Refer to Comp Book

**Recommended Forms**

- Design: COMP 700-060-03

**Documentation**

- Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
- Construction: Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**

- PPM Chapter
- Other Standards: Index No. 410, 411, 5210, 5211, 5213, 5214, 5215
- Specifications
- Prep & Doc Manual Chapter(s): 6, 7, 13
### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<td>0521 72 20</td>
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<td>$593.97</td>
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</table>

521- 73- CONCRETE BARRIER WALL- REMOVAL
## Notes

### Details

This work normally paid for under Clearing and Grubbing or removal of existing structures. Read standards and specifications carefully before use.

To be used for Roadway barrier only. For bridge barrier, refer to Structures Standards.

### Related Items

#### Forms

**Required**

- **Design**: SHTabQuant

**Recommended**

- **COMP 700-050-03**

#### Documentation

**Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References

- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**

**Prep & Doc Manual Chapter(s)**: 6, 7, 13

---

### TRNS*PORT Category (DRAFT FIELD):

100 or 200  Structures or Roadway

### Status

**Struct. 521-73-** CONCRETE BARRIER WALL- REMOVAL LF

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Unit</th>
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</table>

## 522-1-

CONCRETE SIDEWALK, 4" THICK

### Notes

### Details

Consists of construction of plain or reinforced sidewalk. Includes all materials, foundation preparation, joint forming (or sawing), placing, finishing and curing. Specifically excludes excavation.

Sidewalk 6" (0.15 meter) is used in traffic-bearing situations, i.e., driveways. Detectable Warning for sidewalk ramps is incidental to the cost of new sidewalk; for retrofit of ramps, refer to Section 527 of the specifications.

Additional details on Index 310.

For designs near significant trees, consult with Environmental Management Office.

### Related Items

#### Forms

**Required**

- **Design**: SHTabQuant

**Recommended**

- **COMP 700-050-01**

#### Documentation

**Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
**Construction**
Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**
PPM Chapter
Other
Standards  Index No. 282, 304, 310, 515
Specifications
Prep & Doc Manual Chapter(s)  6, 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

**Struct.** 522- 1-
CONCRETE SIDEWALK, 4” THICK  SY

**Notes**
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<td>SIDEWALK CONCRETE, 4” THICK</td>
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**522- 2-**
CONCRETE SIDEWALK, 6” THICK  SY

**Notes**
Refer to pay item 522-1 for details.

**Related Items**

<table>
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<tr>
<th>Forms</th>
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<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-01</td>
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**Construction**
Refer to Comp Book

**Design**
Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

**Construction**
Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**
PPM Chapter
Other
Standards  Index No. 282, 304, 310
Specifications
Prep & Doc Manual Chapter(s)

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

**Struct.** 522- 2-
CONCRETE SIDEWALK, 6” THICK  SY

**Notes**
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<th>Unit</th>
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<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0522 2</td>
<td>SIDEWALK CONCRETE, 6” THICK</td>
<td>SY</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$46.88</td>
</tr>
</tbody>
</table>
## 522-73- EXPOSED AGGREGATE TOPPING- SIDEWALK

<table>
<thead>
<tr>
<th>Unit</th>
<th>SY; M2</th>
<th>Accuracy</th>
<th>Square Yard; Square Meter</th>
<th>PlanQuantity?</th>
<th>no</th>
</tr>
</thead>
</table>

### Notes

### Details

**Related Items**

- **Required**
  - Design: SHTabQuant
- **Recommended**
  - COMP 700-050-01

**Forms**

- **Design**: Refer to Comp Book
- **Construction**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### Specifications

- **Struct.** 522-73- EXPOSED AGGREGATE TOPPING- SIDEWALK SY

### Status

**Inactive Structure**

### TRNS Port Category (DRAFT FIELD):** 0200 Roadway

### Reference

- **PPM Chapter**: Design, Construction
- **Prep & Doc Manual Chapter(s)**: 6, 7, 13

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

## 523-1- A PATTERNED / TEXTURED PAVEMENT

<table>
<thead>
<tr>
<th>Unit</th>
<th>SY; M2</th>
<th>Accuracy</th>
<th>Square Yard; Square Meter</th>
<th>PlanQuantity?</th>
<th>yes</th>
</tr>
</thead>
</table>

### Notes

Includes placement of a patterned (colored) and/or textured (imprinted, stamped) treatment. Work/materials (coloring, coating, etc.) for treatment included under this item. Underlying asphalt/concrete material paid for separately.

Unit of measure is Plan Quantity, without deductions for trees, manholes, etc, per specification.

### Related Items

**Required**

- **Design**: SHTabQuant
- **Construction**: Refer to Comp Book

**Forms**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
- **Construction**: Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**

- **PPM Chapter**: Design, Construction
- **Prep & Doc Manual Chapter(s)**: 6, 7, 13

---

Details and Structure: Items 500 to 599
Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200  Roadway

Status

Struct.  523-  1-  A  PATTERNED / TEXTURED PAVEMENT  SY

A= Underlying Pavement Material
1 (Asphalt)
2 (Concrete)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0523 1 1</td>
<td>PATTERNED / TEXTURED PAVEMENT, ASPHALT</td>
<td>SY</td>
<td>1/1/2007</td>
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<td>$85.00</td>
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<tr>
<td>0523 1 2</td>
<td>PATTERNED / TEXTURED PAVEMENT, CONCRETE</td>
<td>SY</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$60.62</td>
</tr>
</tbody>
</table>

524- 1- A  CONCRETE DITCH PAVEMENT- NON-REINFORCED

Unit  SY; M2   Accuracy  Square Yard; Square Meter
PlanQuantity?  yes

Notes

Details

Consists of construction of concrete pavement in the flow channel of drainage ditches. Includes excavation below the finished grade, refilling and tamping, and disposal of surplus material. Also includes all costs of providing joints and weep holes and of furnishing and placing the filter fabric. Refer to Index 281 for additional information.

Related Items

Forms

Required  Design  SBDTPS; SBDitchPvmt  COMP 700-050-01
Recommended  Construction  Refer to Comp Book

Documentation

Design  Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction  Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter
Other
Standards  Index No. 281
Specifications

Prep & Doc Manual Chapter(s)  6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200  Roadway

Status

Struct.  524-  1-  A  CONCRETE DITCH PAVEMENT- NON-REINFORCED  SY

A =
1 (3")
2 (4")

Details and Structure: Items 500 to 599
Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tr>
<td>0524 1 1</td>
<td>CONCRETE DITCH PAVT, NON REINFORCED, 3&quot;</td>
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<tr>
<td>0524 1 2</td>
<td>CONCRETE DITCH PAVEMENT, NON REINFORCED, 4&quot;</td>
<td>SY</td>
<td>1/1/2007</td>
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<td></td>
<td>$54.96</td>
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<tr>
<td>0524 1 3</td>
<td>CONCRETE DITCH PAVEMENT, NON REINFORCED, 5&quot;</td>
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<td>1/1/2007</td>
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<tr>
<td>0524 1 4</td>
<td>CONCRETE DITCH PAVEMENT, NON REINFORCED, 6&quot;</td>
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<td>0524 1 19</td>
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<tr>
<td>0524 1 29</td>
<td>CONCRETE DITCH PAVEMENT, 4&quot;, REINFORCED</td>
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<td>1/1/2007</td>
<td></td>
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<tr>
<td>0524 1 49</td>
<td>CONCRETE DITCH PAVEMENT, 6&quot;, REINFORCED</td>
<td>SY</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$137.06</td>
</tr>
</tbody>
</table>

524- 1- AB CONCRETE DITCH PAVEMENT- REINFORCED

Unit: SY; M2
Accuracy: Square Yard; Square Meter
PlanQuantity?: no

Notes

Details
Consists of construction of concrete pavement in the flow channel of drainage ditches. Includes excavation below the finished grade, refilling and tamping, and disposal of surplus material. Also includes all costs of providing joints and weep holes and of furnishing and placing the filter fabric.

Related Items

Required
Design: SBDTPS; SBDitchPvmt
Construction: Refer to Comp Book

Recommended
Design: COMP 700-050-01
Construction: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter
Other
Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. 524- 1- AB CONCRETE DITCH PAVEMENT- REINFORCED SY

A =
1 (3")
2 (4")

Details and Structure: Items 500 to 599
### 524-2-A CONCRETE SLOPE PAVEMENT (NON-REINFORCED)

**Unit**: SY; M²  
**Accuracy**: Square Yard; Square Meter  
**Plan Quantity?**: yes

**Notes**  
*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*

**Details**  
Intended for non-reinforced slope pavement to protect bridge fill slopes, to line flow channels, and drainage ditches. Refer to 524-1-xxa for details.

**Related Items**  
*Required*  
- **Design**: SHTabQuant  
- **Construction**: Refer to Comp Book  

*Recommended*  
- **Design**: COMP 700-050-01  
- **Construction**: Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**  
- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**
- **Prep & Doc Manual Chapter(s)**: 6, 7, 13

---

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Struct.**  
524-2-A CONCRETE SLOPE PAVEMENT (NON-REINFORCED) SY

A =  
1 (3")  
2 (4")  
3 (5")  
4 (6")

**Notes**

---

**Item** | **Description** | **Unit** | **TSP/Detail** | **Valid Date** | **Obsolete Date** | **LRE Ref Price**  
--- | --- | --- | --- | --- | --- | ---  
0524 2 1 | CONCRETE SLOPE PAVEMENT, NON REINFORCED, 3" | SY | 1/1/2007 | | | $78.75  
0524 2 2 | CONCRETE SLOPE PAVEMENT, NON REINFORCED, 4" | SY | 1/1/2007 | | | $67.39  
0524 2 29 | CONCRETE SLOPE PAVEMENT, 4", REINFORCED | SY | 1/1/2007 | | | $77.69  
0524 2 49 | CONCRETE SLOPE PAVEMENT, 6", REINFORCED | SY | 1/1/2007 | | | $123.58

---

Details and Structure: Items 500 to 599
### 524- 2- AB  CONCRETE SLOPE PAVEMENT (REINFORCED)

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>SY; M²</td>
<td>Square Yard; Square Meter</td>
<td>no</td>
</tr>
</tbody>
</table>

**Notes**

**Details**

Intended for reinforced slope pavement to protect bridge fill slopes, to line flow channels, and drainage ditches. Refer to 524- 1-xxa for details.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>COMP 700-050-01</td>
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</table>

**Forms**

<table>
<thead>
<tr>
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<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>COMP 700-050-01</td>
</tr>
</tbody>
</table>

**Documentation**

Design

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction

Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

---

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

### 525- 1-  ASPHALTIC CONCRETE CURB

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
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</thead>
<tbody>
<tr>
<td>LF; M1</td>
<td>Linear Foot; 10th of a Meter</td>
<td>yes</td>
</tr>
</tbody>
</table>

**Notes**

**Details**

Not intended for temporary or MOT applications. Use in accordance with Index 300.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>COMP 700-050-02</td>
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</table>

**Forms**

<table>
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<tr>
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<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>COMP 700-050-02</td>
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</tbody>
</table>

**Documentation**

Design

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction

Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
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<td>0525</td>
<td>CURB ASPHALTIC CONC</td>
<td>LF</td>
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<td>1/1/2007</td>
<td></td>
<td>$26.00</td>
</tr>
</tbody>
</table>

**526- 1- A PAVERS, ARCHITECTURAL**

**Notes**

Used for roadway and/or sidewalk applications. For Patterned/Textured pavement (asphalt or concrete), use 523 items.

**Details**

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. Record final quantity on the tabulation sheet (plans) or computation form (comp book).
**Basis of Estimates**

**2009 Edition**

**October 6, 2008**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0526 1 1</td>
<td>PAVERS, ARCHITECTURAL, ROADWAY</td>
<td>SY</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$69.77</td>
</tr>
<tr>
<td>0526 1 2</td>
<td>PAVERS, ARCHITECTURAL, SIDEWALK</td>
<td>SY</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$52.70</td>
</tr>
</tbody>
</table>

### 527- 1-

**DETECTABLE WARNING ON WALKING SURFACE- RETROFIT**

**Unit** EA  
**Accuracy** Each  
**Plan Quantity?** no

**Notes**

This pay item is to be used for applied device on existing ramps only (RETROFIT for previous projects), used in coordination with Index 304.

For new installations (ramps constructed under this project/proposal), use index 304; cost of detectable warning for new installations is included in the cost of the sidewalk. Refer to specifications for a complete description of product.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
</tbody>
</table>

**Documentation**

| Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. |
| Construction | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

**References**

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Other</th>
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<tbody>
<tr>
<td>Standards</td>
<td>Index 304</td>
</tr>
<tr>
<td>Specifications</td>
<td></td>
</tr>
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**TRNSPORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

**Struct.** 527- 1-

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Item</th>
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<th>Valid Date</th>
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</thead>
<tbody>
<tr>
<td>0527 1</td>
<td>DETECTABLE WARNING ON WALKING SURFACE, RETROFIT</td>
<td>EA</td>
<td>1/1/2007</td>
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<td></td>
<td>$598.06</td>
</tr>
</tbody>
</table>

### 530- 1-

**RIPRAP- SAND - CEMENT**

**Unit** CY; M3  
**Accuracy** 10th of a Cubic Yard; 10th of a Cubic Meter  
**Plan Quantity?** no

**Notes**

This item entails the use of sand-cement bags to construct endwalls, provide fill slope protection, and/or provide ditch bottom and ditch slope protection. To be used in accordance with Design Standards.

**FINAL:**

Record and show how quantity was arrived at on tabulation form 700-050-56. If sand-cement is proportioned by volume, the sand shall be measured loose in an approved
measure prior to mixing with cement. If proportioned by weight, approved scales shall be
used for this purpose and the volume shall be calculated using a standard conversion
factor for sand of 85 lb/ft³ (1360 kg/m³).

Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>700-050-56</td>
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</tr>
<tr>
<td>Construction</td>
<td>COMP 700-050-04</td>
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Documentation

<table>
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</tr>
<tr>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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</tbody>
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References

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<tr>
<th>Required</th>
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<tbody>
<tr>
<td>PPM Chapter</td>
<td>Index 258 or 268</td>
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<td>Other</td>
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Prep & Doc Manual Chapter(s) 6, 13

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<tr>
<th>Item</th>
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<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
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<td>0530 1</td>
<td>RIPRAP, SAND-CEMENT</td>
<td>CY</td>
<td>1/1/2007</td>
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<td></td>
<td>$453.78</td>
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</table>

530- 3- A RIPRAP- RUBBLE

<table>
<thead>
<tr>
<th>Unit</th>
<th>TN; MT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accuracy</td>
<td>10th of a Ton; 10th of a Metric Ton</td>
</tr>
<tr>
<td>PlanQuantity?</td>
<td>no</td>
</tr>
</tbody>
</table>

Notes

to be used for bank and shore, bridge abutment, ditch, and outlet structure protection. Refer to Drainage Manual for design criteria. Gradation is given in the specifications. Design quantity is based on the following: $W = Vol.s \times S.G. \times Ww \times Vf$

W = Weight of Stone
Vol.s = Volume of Stone
S.G. = Specific Gravity
=2.3 for Bank & Shore Protection
=1.9 for Ditch Lining
Ww = 62.4 lb/ft³ (1 MT/M³) Weight of Water
Vf = .90 (Void Factor)
NOTE: remember to convert weight (LB) to (TN) for unit of measure & payment. Final measure, per specifications, will be by railroad scales, truck scales, or barge displacement.

Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>700-050-56</td>
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<tr>
<td>Construction</td>
<td>COMP 700-050-06</td>
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Construction 700-050-56

<table>
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</tr>
<tr>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form</td>
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</table>

Details and Structure: Items 500 to 599
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0530 3 3</td>
<td>RIPRAP, RUBBLE, BANK AND SHORE</td>
<td>TN</td>
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<td>0530 3 4</td>
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<td>1/1/2007</td>
<td></td>
<td>$115.70</td>
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</table>

**530- 74- BEDDING STONE**

- **Unit**: TN; MT
- **Accuracy**: 10th of a Ton; 10th of a Metric Ton
- **PlanQuantity?**: no

**Notes**

Quantities should be based on 115 lbs per cubic foot (1840 kg per cubic meter).

**Related Items**

- **Required**
  - **Forms**: Design SHTabQuant
  - **Construction**: 700-050-56
- **Recommended**
  - **Design**: COMP 700-050-06
  - **Construction**: 700-050-56

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**
- **Prep & Doc Manual Chapter(s)** 6, 7, 13
### Item Description

<table>
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<tr>
<th>Item Code</th>
<th>Description</th>
<th>Unit</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0530 74</td>
<td>BEDDING STONE</td>
<td>TN</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$93.83</td>
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<th>Item</th>
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<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>530- 76- A</td>
<td>GABION MAT</td>
<td>SY; M2</td>
<td>Square Yard; Square Meter</td>
<td>no</td>
<td>Standards under development; contact the State Drainage Office for assistance. For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.</td>
</tr>
</tbody>
</table>

### Related Items

<table>
<thead>
<tr>
<th>Forms</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-01</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
<td></td>
</tr>
</tbody>
</table>

### Documentation

| Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. |
| Construction | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

### References

PPM Chapter Other Standards Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

### Status

**Struct. 530- 76- A GABION MAT SY**

A = Thickness
1 (6" Thick)
2 (9" Thick)
3 (18")
4 (12")

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0530 76 2</td>
<td>GABION MAT, 9&quot; THICK</td>
<td>SY</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$180.00</td>
</tr>
<tr>
<td>0530 76 4</td>
<td>GABION MAT, 12&quot; THICK</td>
<td>SY</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$131.98</td>
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### Item Description

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<th>Description</th>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>530- 77- A</td>
<td>GABION BASKET</td>
<td>SY; M2</td>
<td>Square Yard; Square Meter</td>
<td>no</td>
<td>For Plan Detail/Tech Spec items: The Designer should ensure that the description,</td>
</tr>
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</table>

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway
materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

### Related Items

#### Required

**Forms**
- **Design**: SHTabQuant
- **Construction**: Refer to Comp Book

#### Recommended

**Documentation**
- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

#### Standards

**Specifications**

**Struct. 530-77-A GABION BASKET SY**

A =
1 (12" Thick)
2 (36" Thick)
3 (30" Thick)
4 (18" Thick)

#### Notes

Plan Detail and/or Tech Spec Required

**Prep & Doc Manual Chapter(s)**: 6, 7, 13

**TRNS*PORT Category (DRAFT FIELD)**: 0200 Roadway

**Status**

**Struct. 530-77-A GABION BASKET SY**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

---

### 530-78- RIPRAP- ARTICULATING BLOCK

<table>
<thead>
<tr>
<th>Unit</th>
<th>SY; M2</th>
<th>Accuracy</th>
<th>Square Yard; Square Meter</th>
<th>PlanQuantity?</th>
<th>no</th>
</tr>
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</table>

#### Notes

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

#### Related Items

**Forms**
- **Design**: SHTabQuant
- **Construction**: Refer to Comp Book

**Documentation**
- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

**PPM Chapter**

**Other**

**Standards**

**Specifications**

**PPM Chapter**

**Design**

**Construction**

**References**

**SHTabQuant COMP 700-050-01**

Refer to Comp Book

---

**Details and Structure**: Items 500 to 599
### Specifications

**Plan Detail and/or Tech Spec Required**

**Prep & Doc Manual Chapter(s)**

---

### TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

### Status

**Inactive Structure**

### Struct.

**530-78-** **RIPRAP- ARTICULATING BLOCK**

**SY**

---

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>Plan Quantity?</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0530 78</td>
<td>RIPRAP - ARTICULATING BLOCK</td>
<td>SY</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$398.70</td>
</tr>
</tbody>
</table>

---

### 534-72-1AA SOUND BARRIERS- INCLUDING FOUNDATION

**Unit** SF; M2

**Accuracy** Square Foot; 10th of a Square Meter

**Plan Quantity?** yes

---

### Notes

To be used for panel-type sound barrier (wall) construction. Refer to standards for details. Includes the cost of the foundation (auger cast piles or spread footings when called for in the plans), test wall, etc. Area bounded by top of panel, bottom of panel, without deductions for openings; refer to specs for additional information. Special details must be included in the plans.

NOTE: Sound barriers to be placed on bridges or MSE wall sections are not covered by the new standards or this pay item. Sound barriers in these locations have separate standards and pay items. See 521-5, 521-7, and 521-72 for shoulder mounted sound barriers.

---

### Related Items

**Required**

**Recommended**

**Forms**

- **Design** SHTabQuant
- **Construction** Refer to Comp Book

**Documentation**

- **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
- **Construction** Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**

- **PPM Chapter** Chapter 32
- **Other**
- **Specifications** Index No. 5200 to 5206

**Prep & Doc Manual Chapter(s)** 6, 7, 13

---

### TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

### Status

**Inactive Structure**

### Struct.

**534-72-1AA** **SOUND BARRIERS- INCLUDING FOUNDATION**

**SF**

**A=**

- 01 (Permanent)
- 02 (Temporary)

---

Details and Structure: Items 500 to 599
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0534 72101</td>
<td>SOUND BARRIER-INC FOUNDATION, PERMANENT</td>
<td>SF</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$26.32</td>
</tr>
<tr>
<td>0534 72102</td>
<td>SOUND BARRIER-INC FOUNDATION, TEMPORARY</td>
<td>SF</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$25.00</td>
</tr>
</tbody>
</table>

### 534- 73- PERIMETER WALL

**Unit**: SF; M2  
**Accuracy**: Square Foot; 10th of a Square Meter

**PlanQuantity?**: yes

**Notes**: PENDING… Expected implementation January 2009 letting.

**Details**:  
To be used for perimeter wall construction, in accordance with Index 5250. Refer to standards for details.

Includes the cost of the foundation (auger cast piles or spread footings when called for in the plans), test wall, etc. Area bounded by top of panel, bottom of panel, without deductions for openings; refer to specs for additional information.

**NOTE**: There is currently no specific criteria specifying when perimeter walls are justified. This will be a project by project decision based on project demands and resolved by the District.

**Related Items**

**Required**
- Design: SHTabQuant
- Construction: Refer to Comp Book

**Recommended**
- Design: COMP 700-050-01
- Construction: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

**Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.**

**References**
- PPM Chapter: Chapter 32
- Other: Standards: Index No. 5250
- Specifications: Prep & Doc Manual Chapter(s): 6, 7, 13

**Status**

**Struct.**: 534- 73- PERIMETER WALL

**SF**

### 536- 1- AA GUARDRAIL

**Unit**: LF; M1  
**Accuracy**: Linear Foot; 10th of a Meter

**PlanQuantity?**: yes

**Notes**: Consists of the construction of metal guardrail on posts of timber or steel as specified.
Panels are 12.5' (3.810 meters) in length. The plan length of a run of guardrail should normally be determined as a multiple of the nominal panel lengths.

When attaching guardrail to a new or widened bridge railing, the guardrail (including transition and thrie beam panels) is paid for under item 536-1- (2536-1-). The cost of connecting the guardrail to the bridge railing is included in the cost of the guardrail.

When connecting guardrail to an existing bridge railing or to vertical face rail retrofits, the guardrail (including transition and thrie beam panels) is paid for under the item 536-1- (2536-1-) and item 536-8 is included for the cost of connecting the guardrail to the existing bridge railing.

Other situations should be noted in the plans.

Pipe rail/pedestrian safety treatment is to be included in the cost of the guardrail, as indicated on standards. Document locations on summary table. Refer to PPM Vol 2, Chapter 7 for details.

### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>339-1 (2339-1)</td>
<td>536-7 and 536-8 (2536-7, 2536-8)</td>
</tr>
</tbody>
</table>

### Forms

- **Design**: SBGDRL; SBGuardrail
- **Construction**: COMP 700-050-03
- **Design**: Refer to Comp Book
- **Construction**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

### Construction

- **Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.**

### References

- **PPM Chapter**: PPM Chapter
- **Other Standards**: Index No. 400, 402
- **Specifications**
- **Prep & Doc Manual Chapter(s)**: 6, 7, 13

### TRNS*PORT Category (DRAFT FIELD):

- **0200 Roadway**

### Status

- **Struct. 536-1- AA**: GUARDRAIL LF

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
Item | Description | Unit | TSP/Detail | Valid Date | Obsolete Date | LRE Ref | Price
---|-------------|------|------------|------------|---------------|---------|-------
0536 1 1 | GUARDRAIL - ROADWAY | LF | 1/1/2007 | 1/1/2007 | $20.79
0536 1 2 | GUARDRAIL - BRIDGE | LF | 1/1/2007 | 1/1/2007 | $43.32
0536 1 3 | GUARDRAIL - ROADWAY, DOUBLE FACE | LF | 1/1/2007 | 1/1/2007 | $36.48
0536 1 5 | GUARDRAIL - ROADWAY, THRIE BEAM | LF | 1/1/2007 | 1/1/2007 | $24.08
0536 1 6 | GUARDRAIL - BRIDGE, THRIE BEAM | LF | 1/1/2007 | 1/1/2007 | $22.34
0536 1 8 | GUARDRAIL, ROADWAY, WITH RUB RAIL | LF | 1/1/2007 | 1/1/2007 | $30.78
0536 1 9 | GUARDRAIL - ROADWAY, THRIE BEAM, DOUBLE FACE | LF | 1/1/2007 | 1/1/2007 | $43.24
0536 1 10 | GUARDRAIL, ROADWAY, WEATHERING STEEL | LF | 1/1/2007 | 1/1/2007 | $24.62
0536 1 11 | GUARDRAIL, ROADWAY, MODIFIED THRIE BEAM | LF | 1/1/2007 | 1/1/2007 | $34.02
0536 1 12 | GUARDRAIL, ROADWAY, MODIFIED THRIE BEAM - DOUBLE FACE | LF | 1/1/2007 | 1/1/2007 | $49.98

---

**536- 2- GUARDRAIL- SHOP BENT PANELS**

**Unit**: LF; M1

**Accuracy**: Linear Foot; 10th of a Meter

**PlanQuantity?**: yes

---

**Notes**

When this item is used, item 339- 1 must be used.

---

**Details**

---

**Required Forms**

**Design**: SBGDRL; SBGuardrail

**Construction**: Refer to Comp Book

---

**Documentation**

**Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

**Construction**: Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

---

**References**

**PPM Chapter**: Index No. 400

**Other**

**Standards**: COMP 700-050-03

---

**Prep & Doc Manual Chapter(s)**: 7, 13

---

**TRNS*PORT Category (DRAFT FIELD)**: 0200 Roadway

---

**Status**

**Struct.**: 536- 2- GUARDRAIL- SHOP BENT PANELS LF

---

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

**Item**

**Description**

**Unit**

**TSP/Detail**

**Valid Date**

**Obsolete Date**

**LRE Ref**

**Price**

---

Details and Structure: Items 500 to 599
## 536- 7- GUARDRAIL POST, SPECIAL

<table>
<thead>
<tr>
<th>Unit</th>
<th>EA</th>
<th>Accuracy</th>
<th>Each</th>
<th>PlanQuantity?</th>
<th>no</th>
</tr>
</thead>
</table>

**Notes**

Used when culvert, pier footing or other concrete structure precludes normal post installation and special fabrication is required. Specifically excludes posts for double-faced median guardrail. When this item is used, item 536- 1-xxa (2536- 1-xxa) must be used.

**Related Items**

<table>
<thead>
<tr>
<th>Form Type</th>
<th>Required</th>
<th>Recommended</th>
</tr>
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<tbody>
<tr>
<td>Design</td>
<td>SBGDRL; SBDGuardrail</td>
<td>COMP 700-050-03</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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**Documentation**

<table>
<thead>
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<th>Construction</th>
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<tr>
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<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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**References**

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<thead>
<tr>
<th>PPM Chapter</th>
<th>Design</th>
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<tbody>
<tr>
<td>Other Standards</td>
<td>Index No. 400</td>
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<tr>
<th>Related Items</th>
<th>PP &amp; Doc Manual Chapter(s)</th>
<th>7, 13</th>
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**Status**

**Struct.** 536- 7- GUARDRAIL POST, SPECIAL  EA

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<tr>
<th>Item</th>
<th>Description</th>
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<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tr>
<td>0536 7</td>
<td>GUARDRAIL POST SPECIAL</td>
<td>EA</td>
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<td>$194.02</td>
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## 536- 8- A GUARDRAIL BRIDGE ANCHORAGE ASSEMBLY

<table>
<thead>
<tr>
<th>Unit</th>
<th>EA</th>
<th>Accuracy</th>
<th>Each</th>
<th>PlanQuantity?</th>
<th>no</th>
</tr>
</thead>
</table>

**Notes**

Used when connecting guardrail to an existing bridge. Includes furnishing and installing special end shoes, wood blocks or concrete wedges, concrete posts and necessary hardware. When this item is used, item 536- 1 (2536- 1) must be used.

Remove: Plans or specs to indicate disposal or salvage instruction.

**Related Items**

<table>
<thead>
<tr>
<th>Form Type</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SBGDRL; SBDGuardrail</td>
<td>COMP 700-050-03</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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**Documentation**

<table>
<thead>
<tr>
<th>Form Type</th>
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<th>Construction</th>
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</thead>
<tbody>
<tr>
<td>Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
</tbody>
</table>

**References**

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<th>PPM Chapter</th>
<th>Design</th>
<th>Construction</th>
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</thead>
<tbody>
<tr>
<td>Other Standards</td>
<td>Index No. 402</td>
<td></td>
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</tbody>
</table>
Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Structure  536-8- A GUARDRAIL BRIDGE ANCHORAGE ASSEMBLY EA

A = Operation
Blank (Furnish & Install)
1 (Install)
2 (Furnish)
3 (Relocate)
6 (Remove)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0536 8</td>
<td>GUARDRAIL BRIDGE ANCHORAGE ASSEMBLY (FURNISH &amp; INSTALL)</td>
<td>EA</td>
<td>1/1/2007</td>
<td></td>
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<td>$2,338.58</td>
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<tr>
<td>0536 8 1</td>
<td>GUARDRAIL, BRIDGE ANCHORAGE ASSEMBLY, INSTALL</td>
<td>EA</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$2,752.79</td>
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<tr>
<td>0536 8 6</td>
<td>GUARDRAIL, BRIDGE ANCHORAGE ASSEMBLY, REMOVE</td>
<td>EA</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$253.05</td>
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</table>

536-73- GUARDRAIL REMOVAL

<table>
<thead>
<tr>
<th>Unit</th>
<th>LF; M1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accuracy</td>
<td>Linear Foot; 10th of a Meter</td>
</tr>
<tr>
<td>Plan Quantity?</td>
<td>no</td>
</tr>
</tbody>
</table>

Details

For single run, double face guardrail: measurement and payment are based on the single run length. Refer to specification for details.

Related Items

<table>
<thead>
<tr>
<th>Forms</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SBGDRL; SBGuardrail</td>
<td>COMP 700-050-03</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Documentation</th>
<th>Design</th>
<th>Construction</th>
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</thead>
<tbody>
<tr>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
<td></td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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References

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<thead>
<tr>
<th>PPM Chapter</th>
<th>Other</th>
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<tbody>
<tr>
<td>Index No. 400</td>
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</table>

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Structure  536-73- GUARDRAIL REMOVAL LF

Notes
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0536 73</td>
<td>GUARDRAIL REMOVAL</td>
<td>LF</td>
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<td>$2.40</td>
</tr>
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**536- 76-** GUARDRAIL POSTS- SPECIAL LENGTH

**Notes**

**Details**

To be used only as detailed on index 400, for Special Length guardrail posts.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SBGDRL; SBGuardrail</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
</tbody>
</table>

**Forms**

**Documentation**

| Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. |
| Construction | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

**References**

PPM Chapter

| Design | Index No. 400 |
| Construction | |

**Prep & Doc Manual Chapter(s)**

| 7, 13 |

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Struct.**

| 536- 76- | GUARDRAIL POSTS- SPECIAL LENGTH |
| EA |

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0536 76</td>
<td>GUARDRAIL POST - SPECIAL LENGTH</td>
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<td></td>
<td>1/1/2007</td>
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<td>$63.11</td>
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</table>

**536- 82-** GUARDRAIL ANCHORAGE- CONCRETE BARRIER WALL

**Notes**

**Details**

Independent stand alone anchorage to be used between guardrail and a fixed structure.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SBGDRL; SBGuardrail</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
</tbody>
</table>

**Forms**

**Documentation**

| Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. |
| Construction | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

**References**

PPM Chapter

| Design | Index No. 400, 410, 413, 415 |
| Construction | |

Details and Structure: Items 500 to 599
Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. 536-82- GUARDRAIL ANCHORAGE- CONCRETE BARRIER WALL

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<tr>
<th>Item</th>
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<td>$2,215.11</td>
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</tbody>
</table>

536-83- A GUARDRAIL POST REPLACEMENT

Notes

Details

Required

Forms

Design SBGDRL; SBGuardrail

Construction Refer to Comp Book

Documentation

Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards Index No. 400

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. 536-83- A GUARDRAIL POST REPLACEMENT

A =
1 (Regular)
2 (Special)
3 (Steel In Concrete, Regular)
4 (Steel In Asphalt, Regular)
5 (Steel In Soil, Regular)
6 (Wooden In Asphalt, Regular)
7 (Wooden In Soil, Regular)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0536 83 1</td>
<td>GUARDRAIL POST REPLACEMENT, REGULAR</td>
<td>EA</td>
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<td>$348.02</td>
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</table>

### 536- 85- AA GUARDRAIL END ANCHORAGE ASSEMBLY

<table>
<thead>
<tr>
<th>Notes</th>
<th>Details</th>
<th>Related Items</th>
<th>Forms</th>
<th>Documentation</th>
<th>References</th>
<th>Prep &amp; Doc Manual Chapter(s)</th>
</tr>
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<tbody>
<tr>
<td>Includes furnishing and installing all necessary hardware, as shown in Standard Index 400.</td>
<td>Includes furnishing and installing all necessary hardware, as shown in Standard Index 400.</td>
<td>Required 536- 1 Recommended 536- 1</td>
<td>Design SBGDRL; SBDGuardrail</td>
<td>Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
<td>PPM Chapter</td>
<td>6, 7, 13</td>
</tr>
</tbody>
</table>

#### Notes

**Details**

- **Required**: 536- 1
- **Recommended**: 536- 1

**Forms**

- **Design**: SBGDRL; SBDGuardrail
- **Construction**: Refer to Comp Book

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

<table>
<thead>
<tr>
<th>References</th>
<th>Prep &amp; Doc Manual Chapter(s)</th>
</tr>
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<tbody>
<tr>
<td>PPM Chapter</td>
<td>6, 7, 13</td>
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#### Notes

- **Notes**: 

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Item</th>
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<td>0536 85 24</td>
<td>GUARDRAIL END ANCHORAGE ASSEMBLY- PARALLEL</td>
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<td>0536 85 26</td>
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<td>0536 85 27</td>
<td>GUARDRAIL END ANCHORAGE ASSEMBLY- DOUBLE FACE TERMINAL</td>
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</table>

### 538- 1- GUARDRAIL- RESET

<table>
<thead>
<tr>
<th>Notes</th>
<th>Details and Structure: Items 500 to 599</th>
</tr>
</thead>
<tbody>
<tr>
<td>Includes furnishing and installing all necessary hardware, as shown in Standard Index 400.</td>
<td>Includes furnishing and installing all necessary hardware, as shown in Standard Index 400.</td>
</tr>
</tbody>
</table>
Consists of the removal of existing guardrail and resetting of the salvaged guardrail along with necessary new materials. Locations of the existing and proposed guardrail must be shown in the plans. Coordinate the use of this item with District Maintenance Office. Refer to Section 3 of this Handbook for recommended pay item plan note. When this item is used, Item 339-1 (2339-1) must be used.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SBGDRL; SBGuardrail</td>
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<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
</tbody>
</table>

**Documentation**

| Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. |
| Construction | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

**References**

- PPM Chapter
- Other
- Standards: Index No. 400
- Specifications
- Prep & Doc Manual Chapter(s): 7, 13

---

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

**Struct. 538-1** GUARDRAIL-RESET LF

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<td>0538 1</td>
<td>GUARDRAIL RESET</td>
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</table>

**539-75-ABC** GLARE SCREEN

**Unit** LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

**Notes**

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
</tbody>
</table>

**Documentation**

| Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. |
| Construction | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

**References**

- PPM Chapter
- Other

---

Details and Structure: Items 500 to 599
Standards
Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

Status: Inactive Structure

**Struct.** 539-75-ABC **GLARE SCREEN** LF

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) BC=00
4 (Remove) BC=00
6 (Relocate) BC=00

B = Material
1 (Modular)

C = Height
1 (18")
2 (24")
3 (30")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description, F&amp;I, MODULAR</th>
<th>Unit</th>
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<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tr>
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<td>GLARE SCREEN, 24&quot;</td>
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<td>0539 75113</td>
<td>GLARE SCREEN, MODULAR, 30&quot;</td>
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<td>$26.80</td>
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**539-80-ABC** **OPAQUE VISUAL BARRIER**

<table>
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<tr>
<th>Unit</th>
<th>LF; M1</th>
<th>Accuracy</th>
<th>Linear Foot; 10th of a Meter</th>
<th>PlanQuantity?</th>
<th>no</th>
</tr>
</thead>
</table>

Notes

Related Items

<table>
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<tr>
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<tr>
<td>Construction</td>
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Documentation

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References

<table>
<thead>
<tr>
<th>PPM Chapter</th>
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<tbody>
<tr>
<td>Other</td>
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<table>
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<th>Standards</th>
<th>Specifications</th>
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<tbody>
<tr>
<td>Index No. 461</td>
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</table>

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

Status
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<th>Item</th>
<th>Description</th>
<th>Unit</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0539 80111</td>
<td>OPAQUE VISUAL BARRIER, F&amp;I, CONCRETE, 2'3&quot; HT</td>
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<td>1/1/2007</td>
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<td>$25.87</td>
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</tbody>
</table>

**540-** HIGH TENSION CABLE BARRIER SYSTEM WITH ANCHORS

**Notes**

Future item; refer to developmental item 904-540-xx1

**Details**

**Related Items**

<table>
<thead>
<tr>
<th>Forms</th>
<th>Required</th>
<th>Recommended</th>
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</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-03</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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</table>

**Documentation**

| Design   | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. |
| Construction | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

**References**

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

**Struct.** 540- HIGH TENSION CABLE BARRIER SYSTEM WITH ANCHORS

pending

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

**542- 70-** BUMPER GUARDS, CONCRETE

Details and Structure: Items 500 to 599
**Topic No. 600-000-002**

**Basis of Estimates**

**2009 Edition**

**October 6, 2008**

---

**Unit**  
**EA**

**Accuracy**  
**Each**

**Plan Quantity?**  
**no**

---

**Notes**

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

---

**Related Items**

<table>
<thead>
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<th>Recommended</th>
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<td>Design</td>
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<tr>
<td>Construction</td>
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**Forms**

Refer to Comp Book

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**Documentation**

<table>
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<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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---

**References**

**PPM Chapter**

**Other**

**Index No. 300**

---

**Prep & Doc Manual Chapter(s)**

7, 13

---

**TRNS*PORT Category (DRAFT FIELD):**

0200 Roadway

---

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

---

**Status**

**Struct.**

542- 70-  
BUMPER GUARDS, CONCRETE  
EA

---

**Notes**

Items to be installed in accordance with Standards and/or manufacturer's instructions.

---

**Related Items**

<table>
<thead>
<tr>
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<th>Recommended</th>
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</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>COMP 700-050-03</td>
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**Forms**

Refer to Comp Book

---

**Documentation**

<table>
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<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
</tbody>
</table>

---

**References**

**PPM Chapter**

**Other**

**Index No. 432, 433, 434, 435, 436, 438**

---

**Prep & Doc Manual Chapter(s)**

7, 13

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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**Item**

<table>
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<tr>
<th>Description</th>
<th>Unit</th>
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**544- 74- AA**

RELOCATE VEHICULAR IMPACT ATTENUATOR / CRASH CUSHION

---

**Unit**  
**EA**

**Accuracy**  
**Each**

**Plan Quantity?**  
**no**

---

**Notes**

Items to be installed in accordance with Standards and/or manufacturer's instructions.

---

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
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<tbody>
<tr>
<td>Design</td>
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<tr>
<td>Construction</td>
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**Forms**

Refer to Comp Book

---

**Documentation**

<table>
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<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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**References**

**PPM Chapter**

**Other**

**Index No. 432, 433, 434, 435, 436, 438**

---

**Prep & Doc Manual Chapter(s)**

7, 13

---

Details and Structure: Items 500 to 599
### Basis of Estimates

**2009 Edition**

**October 6, 2008**

---

**TRNS*PORT Category (DRAFT FIELD):** 0200  Roadway

### Structural Item

- **544-74- AA**
  - **RELOCATE VEHICULAR IMPACT ATTENUATOR / CRASH CUSHION**
  - **EA**

  AA =
  - 8 (Cat)
  - 9 (Brakemaster)
  - 10 (Dragnet)
  - 13 (React 350)
  - 14 (Quadgard)
  - 17-20 Hold
  - 23 (SCI)
  - 24 (Quest)

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0544 74 14</td>
<td>RELOCATE CRASH CUSHION - VEHICULAR IMPACT ATTENUATOR, QUADGUARD</td>
<td>EA</td>
<td>1/1/2007</td>
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<td></td>
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<tr>
<td>0544 74 23</td>
<td>RELOCATE CRASH CUSHION - VEHICULAR IMPACT ATTENUATOR, SCI</td>
<td>EA</td>
<td>1/1/2007</td>
<td></td>
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<td>$4,000.00</td>
</tr>
<tr>
<td>0544 74 24</td>
<td>RELOCATE CRASH CUSHION - VEHICULAR IMPACT ATTENUATOR, QUEST</td>
<td>EA</td>
<td>1/1/2007</td>
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</tbody>
</table>

### 544-75- AA

**CRASH CUSHION- VEHICULAR IMPACT ATTENUATOR**

<table>
<thead>
<tr>
<th>Unit</th>
<th>EA</th>
<th>Accuracy</th>
<th>Each</th>
<th>Plan Quantity?</th>
<th>no</th>
</tr>
</thead>
</table>

### Details

Refer to Plans Preparation Manual and Design Standards prior to selecting a specific option. Items are to be installed in accordance with Standards and/or manufacturer's instructions. All items must be listed on QPL, per specifications.

### Related Items

**Forms**
- **Required**
  - Design: SHTabQuant
  - Construction: Refer to Comp Book

**Documentation**
- **Design**
  - Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**
  - Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References

- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**
- **Prep & Doc Manual Chapter(s)** 7, 13

---

**Details and Structure: Items 500 to 599**

---

Page 63 of 81
**Struct.  544- 75- AA CRASH CUSHION- VEHICULAR IMPACT ATTENUATOR EA**

**Notes**: AA = 40 (Optional) should be used, unless there is a specific reason why options are limited to a single product.

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**The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0544 75 13</td>
<td>CRASH CUSHION - VEHICULAR IMPACT ATTENUATOR, REACT 350</td>
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<td>1/1/2007</td>
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<td>$25,000.00</td>
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<td>0544 75 14</td>
<td>CRASH CUSHION - VEHICULAR IMPACT ATTENUATOR, QUADGUARD</td>
<td>EA</td>
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**544- 76- ATTENUATOR MODULES- SAND FILLED**

**Notes**

**Details**

**Related Items**

**Forms**

**Design** Required

**Construction** Required

**Documentation**

**Design**

**Construction**

**References**

**PPM Chapter**

**Other**

**Standards**

---

Details and Structure: Items 500 to 599
## Specifications

**Prep & Doc Manual Chapter(s):** 6, 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0200  Roadway

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### 546-71- RUMBLE STRIP SETS

<table>
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<tbody>
<tr>
<td>PS</td>
<td>Per Set</td>
<td>no</td>
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</table>

#### Details

Raised rumble strip SETS shall be constructed at all structures with less than full width shoulders. They will also be constructed at intersection approaches only when specified in the plans. This item is to be used in accordance with Standard Index 518.

Note that thermoplastic sets typically include 4 strips; Asphalt sets include 6 strips. Refer to Index for details.

For ground-in strips, refer to item 546-72-AB.

#### Related Items

- **Required**
  - Design: SHTabQuant
  - Construction: Refer to Comp Book

- **Recommended**
  - Design: COMP 700-050-03
  - Construction: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
  - Documentation: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

#### References

- PPM Chapter
- Other
  - Standards: Index No. 518
- Specifications
  - Prep & Doc Manual Chapter(s): 6, 7, 13

## Status

**Struct.**  546-71-  RUMBLE STRIP SETS  PS

#### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Description</th>
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### 546-72- AB  RUMBLE STRIPS

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<tbody>
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<td>PM; KM</td>
<td>10th of a Mile; Kilometer</td>
<td>yes</td>
</tr>
</tbody>
</table>
Ground-in rumble strips (16" minimum width, 400 mm minimum width) shall be constructed on freeway and other limited access per Index No. 518. Other methods and types of applications shall not be used unless approved in writing by the State Roadway Design Engineer. Approval will be considered only with sufficient documented justification for variance from this standard.

For Raised Rumble Strips, refer to item 546-71-.

Measurement, per specification: The quantity of will be the plan quantity in miles, constructed and accepted. The plan quantity will be determined based on the roadway length minus bridge lengths for each shoulder on which Rumble Strips are to be constructed.

Per specifications, plan quantity will be determined based on the roadway length, minus bridge lengths for each shoulder on which Rumble Strips are to be constructed. (No deduction is made for skip section of skip array.)
Details

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items
Required

Recommended

Forms
Design SHTabQuant COMP 700-050-01

Construction Refer to Comp Book

Documentation
Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References
PPM Chapter
Other

Standards
Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status
Struct. 547-70- A RIPRAP, FABRIC-FORMED CONCRETE SY

A = 1 (8" Filter Points)
2 (10" Filter Points)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<td>0547 70 1</td>
<td>RIPRAP FABRIC-FORMED CONCRETE, 8&quot; FILTER POINTS</td>
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<td>0547 70 2</td>
<td>RIPRAP FABRIC-FORMED CONCRETE, 10&quot; FILTER POINTS</td>
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<td>$68.99</td>
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</table>

548- AA- RETAINING WALL SYSTEM

Unit SF; M2 Accuracy Square Foot; 10th of a Square Meter PlanQuantity? yes

Notes
Approved walls are listed on the Qualified Products List (QPL).

NOTE: Include item in TRNS*PORT Roadway Category.
Pay area based on area bounded by coping line, top of leveling pad, begin and end of wall. Barriers and parapets paid for separately (Items 521-8 and 521-6.)

******

For Cast-in-Place walls, refer to design standards and use Concrete (CY) and Reinforcing Steel (LB) items.

Related Items
Required 521- 6-xxa, or 521-8-xaa

Page 67 of 81
Standards Index 5300, 5301
Specifications

Chapter 30

Struct. 548- AA- RETAINING WALL SYSTEM SF

AA = Type
12 (Permanent) excluding barrier
13 (Temporary) excluding barrier
14 (Permanent- Widening) attached to existing wall

Notes

Located in plans. Summarize quantities by location on tabulation of quantities sheet in plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

Status

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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<th>Price</th>
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<td>0548 12</td>
<td>RETAINING WALL SYSTEM, PERMANENT, EXCLUDING BARRIER SF</td>
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<td>0548 13</td>
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<tr>
<td>0548 14</td>
<td>RETAINING WALL SYSTEM, PERMANENT-WIDENING, ATTACHED TO EXISTING WALL SF</td>
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<td></td>
<td>$133.00</td>
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</table>

550- 10-ABC FENCING

Unit LF; M1
Accuracy Linear Foot; 10th of a Meter

PlanQuantity? no

Notes

Includes all fence, posts, and incidental materials. Gates to be paid under 550-60-ABC. Type 9 (Special) to be used for decorative fencing, other than A, B, or R. Tech Spec and/or plan details required to specify materials, installation, and payment.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

Required 550- 60-ABC

Recommended

Forms Design SBFN; SBFence; SBFNTA; COMP 700-050-03

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway
Standards 800, 801, 802, 803, 810, 811, 812
Specifications

*Selected Items may require Tech Spec and/or Plan Detail

**Prep & Doc Manual Chapter(s)**

*TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

**Status**

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<th>FENCING</th>
<th>LF</th>
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<td></td>
<td></td>
</tr>
<tr>
<td>1 (Type A)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 (Type B)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 (Type R)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9 (Special) Not Type A, B, or R; C= 8 or 9</td>
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<tr>
<td><strong>B</strong> = Nominal Fabric Height</td>
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<td></td>
</tr>
<tr>
<td>1 (0.0-5.0' Height) Note: Type A Standard; may be used for other types</td>
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</tr>
<tr>
<td>2 (5.1-6.0' Height) Note: Type B Standard; may be used for other types</td>
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<tr>
<td>3 (6.1-7.0' Height)</td>
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</tr>
<tr>
<td>4 (7.1-8.0' Height)</td>
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<td></td>
</tr>
<tr>
<td>5 (8.1-10.0' Height)</td>
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</tr>
<tr>
<td><strong>C</strong> = Details/Features</td>
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</tr>
<tr>
<td>0 (Standard features) No coating, barbed wire, or other special features</td>
<td></td>
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<tr>
<td>1 (w/Barbed Wire Attachment), Type B Only</td>
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<tr>
<td>2 (w/Vinyl Coating), Type B Only</td>
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<tr>
<td>3 (Full Enclosure), Type R Only</td>
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<td>4 (Partial Enclosure), Type R Only</td>
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<tr>
<td>5 (Vertical) Type R Only</td>
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<tr>
<td>8 (Reset Existing)</td>
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</tr>
<tr>
<td>9 (Special Feature) Features), other than coating, barbs, or enclosure</td>
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</tbody>
</table>

**Notes**

*A* = Special for non-standard types (wood fence?)
*B* = Special for other than coatings or enclosure
*A* or *B* =9 may require Tech Spec and/or Plan Detail

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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### 550-60-ABC  FENCE GATE

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<th>EA</th>
<th>Accuracy</th>
<th>Each</th>
<th>Plan Quantity?</th>
<th>no</th>
</tr>
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#### Notes

Fence to be installed in accordance with standards, Index Nos. 800-812. Special: Tech Spec and/or plan details required to specify materials, installation, and payment. Do not use "special" item for type A, B, or R fencing.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

#### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
<th>550-10-ABC</th>
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#### Forms

<table>
<thead>
<tr>
<th>Design</th>
<th>SBFN; SBFence; SBFNTA; COMP 700-050-03</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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#### Documentation

<table>
<thead>
<tr>
<th>Design</th>
<th>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</th>
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</thead>
<tbody>
<tr>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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#### References

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<th>PPM Chapter</th>
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**PPM Chapter**

**Other**

**Standards**

Indexes 800, 801, 802, 803, 810, 811, 812

**Specifications**

*Selected Items may require Tech Spec and/or Plan Detail

#### Prep & Doc Manual Chapter(s)

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

#### Status

<table>
<thead>
<tr>
<th>Struct.</th>
<th>550-60-ABC</th>
<th>FENCE GATE</th>
<th>EA</th>
</tr>
</thead>
</table>

A = Type
1 (Type A)
2 (Type B)
9 (Special) *Not Type A or B

B = Type
1 (Single)
2 (Double)
3 (Sliding / Cantilever)

C = Size of Opening
1 (0-6.0' Opening)
2 (6.1-12.0' Opening)
3 (12.1-18.0' Opening)
4 (18.1-20.0' Opening)
5 (20.1-24.0' Opening)
6 (24.1-30.0' Opening)
7 (Greater than 30' Opening)

**Notes**

* Special may require Tech Spec and/or Plan Detail

---

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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<th>Valid Date</th>
<th>Obsolete Date</th>
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<tr>
<td>0550</td>
<td><strong>FENCE GATE, TYPE A, SINGLE, 0-6.0' OPENING</strong></td>
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Details and Structure: Items 500 to 599
### 555- 1- A DIRECTIONAL BORE

**Unit** LF; M1  
**Accuracy** Linear Foot; 10th of a Meter  
**PlanQuantity?** no

#### Notes
Payment will include work and materials, including casing, to be installed in accordance with specified method. Review alternate installation methods to determine best method for each location/crossing. 

Per Specification, Bundled products in a single bore will be paid as a single bore, based on the required drill bit head or back reamer head size. Separate payment shall not be made for individual products in a bundle.

#### Details
Located in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. 

Record final quantity on the tabulation sheet (plans) or computation form (comp book).

#### Related Items
- **Required**
  - Forms: Design SHTabQuant  
  - Documentation: Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

- **Recommended**
  - Forms: COMP 700-050-03  
  - Documentation: Refer to Comp Book

#### References
- PPM Chapter
- Other
- Standards
- Specifications

#### Prep & Doc Manual Chapter(s)
7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

**Struct.** 555- 1- A DIRECTIONAL BORE LF

A = Diameter Of Pipe/Conduit*  
1 (Less Than 6")  
2 (6" to <12")  
3 (12" to <18")  
4 (18" to <24")  
5 (24" to <36")  
6 (36" to <48")  
7 (48" to <60")

#### Notes
Additional Ranges At 12" Increments  
*Refer to detail information when working with bundled products

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
## Basis of Estimates

**2009 Edition**

**October 6, 2008**

### Item Description

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<th>Valid Date</th>
<th>Obsolete Date</th>
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</table>

### 556-1- A JACK AND BORE

**Unit**: LF; M1  
**Accuracy**: Linear Foot; 10th of a Meter  
**PlanQuantity?**: no

### Notes

Payment will include work and materials, including casing, to be installed in accordance with specified method. Review alternate installation methods to determine best method for each location/crossing.

### Related Items

**Required**

- Design: SHTabQuant
- Construction: Refer to Comp Book

**Recommended**

- 556-1-xxa, 557-1-xxa

### Forms

**Design**: SHTabQuant  
**Construction**: Refer to Comp Book

### Documentation

**Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References

**PPM Chapter**:  
**Other**:  
**Standards**:  
**Specifications**:  
**Prep & Doc Manual Chapter(s)**: 7, 13

### Status

**TRNS*PORT Category (DRAFT FIELD)**: 0200 Roadway

**Struct.**: 556-1- A JACK AND BORE LF

AA = Diameter Of Casing
1 ( <6")
2 ( 6" to < 12")
3 ( 12" to < 18")
4 ( 18" to < 24")
5 ( 24" to < 36")
6 ( 36" to < 48")
7 ( 48" to < 60")
8 ( 60" to < 72")
9 ( 72" to < 84")
10 (84" to < 96")
11 (96" to < 108")

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref</th>
<th>Price</th>
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**557- 1- A  VIBRATORY PLOWING**

**Unit**: LF; M1  
**Accuracy**: Linear Foot; 10th of a Meter  
**PlanQuantity?**: no

**Notes**
Effective January 03: Payment will include work and materials, including casing, to be installed in accordance with specified method. Review alternate installation methods to determine best method for each location/crossing.

**Related Items**
Required: SHTabQuant  
Recommended: COMP 700-050-03  
556-1-xaa, 557-1-xxa

**Forms**
Design: Refer to Comp Book  
Construction: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.  

**Documentation**
Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.  
Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**
PPM Chapter
Other
Standards
Specifications  
Prep & Doc Manual Chapter(s) 7, 13

---

Details and Structure: Items 500 to 599
Struct. 557-1-A VIBRATORY PLOWING LF

A = Diameter Of Casing
1 ( < 6")
2 ( 6" to < 12")
3 (12" to < 18")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<td>Lump Sum (Ton); Lump Sum (Metric Ton)</td>
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</table>

Notes

Intended for rehabilitation projects. For new bridges, the cost of painting is included in the cost of the structural steel. Do not include quantities in the plans. The weight of the steel to be painted is for estimating purposes only.

Related Items

Required | Recommended
Design | SHTabQuantLS | COMP 700-050-05
Construction | Refer to Comp Book |

Documentation

Design | Use a quantity of 1, but calculations and documentation must be to the second unit of measure. Locate or define the scope of work involved on the plans.
Construction | Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter
Other
Standards
Specifications
Prep & Doc Manual Chapter(s) 6, 7, 13

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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Notes

Pending specification change for July 2008: Measurement to be made by plan quantity.
Coordinate the use of this item with District Maintenance Office. Consists of furnishing and applying anti-graffiti coating to the surfaces indicated in the plans. The work also includes surface preparations prior to application of the coating. All coatings are to be clear, unless otherwise specified in the plans, or approved by the Engineer. Pay Item specifies whether material is sacrificial or non-sacrificial.
Measurement is based on the projected area of the wall (height x length) or surface, with no additional allowance for surface texture.

For projects let before 7/2008, measurement/payment will be based on measured area, as indicated above.
For projects let 7/2008 and later, measurement will be based on plan quantity, as indicated above.

**Related Items**

<table>
<thead>
<tr>
<th>Forms</th>
<th>Required</th>
<th>Recommended</th>
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<td>COMP 700-050-01</td>
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<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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</table>

**Documentation**

| Design           | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor. |
| Construction     | Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances. |

**References**

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Other</th>
</tr>
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<td>Specifications</td>
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**Prep & Doc Manual Chapter(s)** 6, 7, 13

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**TRNS*PORT Category (DRAFT FIELD):** 100 or 200 Structures or Roadway

**Status**

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**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Description</th>
<th>Unit</th>
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**570- 1- A PERFORMANCE TURF**

**Unit** SY; M2  **Accuracy** Square Yard; Square Meter  **PlanQuantity?** Yes

**Notes** Effective January 2007 letting. Replaces several 570 items.

**Details** Consists of establishing a stand of grass on slopes, shoulders, or other areas by seeding (includes seeding, seeding & mulching, hydroseeding, bonded fiber matrix, or any combination), or sodding, in accordance with Section 570. Coordinate the use of this item with Sections 104 and 580.
This item includes the mowing of all areas, including undisturbed areas, within the project limits, as noted in the plans. DO NOT use item 104-4 when this item is used. Payment for all mowing is incidental to the turf payment.

Per Section 570 specification, the Statewide Disputes Review Board specifications must be included on projects with this item.

**Related Items**

<table>
<thead>
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<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
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<td>SHTabQuant</td>
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<tr>
<td>Construction</td>
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**Documentation**

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<th>Construction</th>
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<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
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</table>

**References**

**PPM Chapter**
- Other

**Standards**

**Specifications**

**Prep & Doc Manual Chapter(s)**

---

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Notes**

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. Record final quantity on the tabulation sheet (plans) or computation form (comp book).

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**The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.**

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<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0570 1 1</td>
<td>PERFORMANCE TURF</td>
<td>SY</td>
<td></td>
<td>1/1/2007</td>
<td></td>
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<tr>
<td>0570 1 2</td>
<td>PERFORMANCE TURF, SOD</td>
<td>SY</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$2.55</td>
</tr>
</tbody>
</table>

**571-1-AB PLASTIC EROSION MAT**

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>SY; M2</td>
<td>Square Yard; Square Meter</td>
<td>no</td>
</tr>
</tbody>
</table>

**Notes**

Geosynthetic rolled erosion control product that retains soil, moisture, and seed; promotes vegetative growth while preventing erosion in ditches, channels, and spillways. to be used where conditions prevent vegetation that lasts past a single growing season.

**Related Items**

<table>
<thead>
<tr>
<th>Forms</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-01</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
<td></td>
</tr>
</tbody>
</table>

**Documentation**

<table>
<thead>
<tr>
<th>Design</th>
<th>Construction</th>
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<tbody>
<tr>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
</tbody>
</table>
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0571 1 11</td>
<td>PLASTIC EROSION MAT, TURF REINFORCED MAT, TYPE 1</td>
<td>SY</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$13.72</td>
</tr>
<tr>
<td>0571 1 12</td>
<td>PLASTIC EROSION MAT, TRM, TYPE 2</td>
<td>SY</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$3.23</td>
</tr>
<tr>
<td>0571 1 13</td>
<td>PLASTIC EROSION MAT, TURF REINFORCED MAT, TYPE 3</td>
<td>SY</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$7.33</td>
</tr>
</tbody>
</table>

580-1- A LANDSCAPE COMPLETE

<table>
<thead>
<tr>
<th>Unit</th>
<th>LS/LS</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Lump Sum</td>
<td>yes</td>
</tr>
</tbody>
</table>

Notes

Details

This item is for the complete installation of plants, in accordance with Specification Section 580, including all incidental work. Mowing included as part of the landscape work will be identified in the contract documents. If mowing is required outside of the landscape areas, use pay item 104-4, unless 570-1-A is included.

Small plants are defined as:
- all ground covers, shrubs to less than 7 gallon, trees to less than 7 gallon, palms clustering type less than 6 foot overall height, cycads to less than 7 gallon

Large plants are defined as:
- shrubs 7 gallon or greater, trees 7 gallon or greater, all palms single trunk, palms clustering type 6 foot overall height and greater, cycads 7 gallon or greater, all Sabal palms (aka Sabal palmetto, cabbage palm, state tree)

Refer to the latest edition of the Florida Grades and Standards for Nursery Plants for classification. All plants must be detailed in the plans in accordance with Volume 2, Chapter 26 of the PPM.

The computation book will use form 70-050-05 Lump Sum Quantities. On the form, refer to the plans tabulation sheet for calculations; do not repeat tabulation sheet information on the form.

All 580 and 590 items must be loaded in TRNS*PORT Category 0600. If there are only a few items, they may be shown in roadway plans, but tabulated with "Summary of Landscape Pay Items" in Category 0600.
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0580 1 1</td>
<td>LANDSCAPE COMPLETE- SMALL PLANTS</td>
<td>LS</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$0.00</td>
</tr>
<tr>
<td>0580 1 2</td>
<td>LANDSCAPE COMPLETE- LARGE PLANTS</td>
<td>LS</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$0.00</td>
</tr>
</tbody>
</table>

**590- 70-** IRRIGATION SYSTEM

**Details**

All 580 and 590 items must be loaded in TRNS*PORT Category 0600. If there are only a few items, they may be shown in roadway plans, but tabulated with "Summary of Landscape Pay Items" in Category 0600.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

<table>
<thead>
<tr>
<th>Forms</th>
<th>Design</th>
<th>SBTBLD</th>
<th>COMP 700-050-05</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Documentation</th>
<th>Design</th>
<th>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.</td>
<td></td>
</tr>
</tbody>
</table>
### References
- PPM Chapter
- Other
- Standards
- Specifications

**Plan Detail and/or Tech Spec Required**

**Prep & Doc Manual Chapter(s)**: 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0600  
Landscaping

### Status

**Struct.**  590-70-  
**IRRIGATION SYSTEM**  LS/LS

### Notes

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0590 70</td>
<td>IRRIGATION SYSTEM</td>
<td>LS</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$0.00</td>
</tr>
</tbody>
</table>
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Chapter 16

Items 600 to 699
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### 604- 1- AB SIGNALS- DATA COLLECTION

**Unit**: LO; EA  
**Accuracy**: Per Location; Each  
**PlanQuantity?**: no

**Notes**

This pay item is for traffic signals and traffic control devices only.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
</tbody>
</table>

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**

**Prep & Doc Manual Chapter(s)**: 7, 13

---

**TRNS*PORT Category (DRAFT FIELD)**: 0500 Signalization

---

**Status**

**Struct.** 604- 1- AB  
**SIGNALS- DATA COLLECTION**  
**LO; EA**

A = Type Of Location  
1 (Intersection)  
2 (Mid-Block)  
B = Type Of Count  
1 (Turning Movement)  
2 (Approach)

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0604 1 11</td>
<td>DATA COLLECTION, INTERSECTION, TURNING MOVEMENT</td>
<td>LO</td>
<td>T</td>
<td>1/1/2007</td>
<td>$1,311.08</td>
<td></td>
</tr>
<tr>
<td>0604 1 12</td>
<td>DATA COLLECTION, INTERSECTION, APPROACH</td>
<td>LO</td>
<td>T</td>
<td>1/1/2007</td>
<td>$1,716.25</td>
<td></td>
</tr>
</tbody>
</table>

---

### 604- 2-AAB ANALYSIS & DOCUMENTATION- INTERSECTION

**Unit**: PA; EA  
**Accuracy**: Per Analysis; Each  
**PlanQuantity?**: no

**Notes**

This pay item is for traffic signals and traffic control devices only.

For Plan Detail/Tech Spec items: The Designer should ensure that the description,
materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Forms</strong></td>
<td><strong>Design</strong></td>
<td>SHTabQuant</td>
</tr>
<tr>
<td><strong>Construction</strong></td>
<td>Refer to Comp Book</td>
<td></td>
</tr>
</tbody>
</table>

| **Documentation** | **Design** | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. |
| **Construction** | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

| **References** | **PPM Chapter** | **Other** |
| **Standards** | **Specifications** |

**Plan Detail and/or Tech Spec Required**

**Prep & Doc Manual Chapter(s)**: 7, 13

**TransPort Category (DRAFT FIELD)**: 0500  Signalization

**Status**

**Struct.** 604- 2-AAB  **ANALYSIS & DOCUMENTATION- INTERSECTION**  PA; EA

AA = (Number Of Intersections)
B = (Number Of Timing Patterns)

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0604 2 23</td>
<td>ANALYSIS &amp; DOC, 2 INTERSECTIONS, 3 TIMING PATERN</td>
<td>PA</td>
<td>T</td>
<td>1/1/2007</td>
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<td>$1,438.58</td>
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<tr>
<td>0604 2 73</td>
<td>ANALYSIS &amp; DOC, 7 INTERSECTIONS, 3 TIMING PATERN</td>
<td>PA</td>
<td>T</td>
<td>1/1/2007</td>
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<td>$0.00</td>
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<tr>
<td>0604 2 83</td>
<td>ANALYSIS &amp; DOC, 8 INTERSECTIONS, 3 TIMING PATERN</td>
<td>PA</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$900.00</td>
</tr>
</tbody>
</table>

**604- 3- A  ** **TIMING IMPLEMENTATION**

**Notes**

**Details**

This pay item is for traffic signals and traffic control devices only.

| Related Items | **Required** | **Recommended** |
| **Forms**     | **Design** | SHTabQuant | COMP 700-050-03 |
| **Construction** | Refer to Comp Book |

| **Documentation** | **Design** | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. |
| **Construction** | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

**References**

**PPM Chapter**

**Other**
Standards
Specifications
Prep & Doc Manual Chapter(s)  7, 13

TRNS*PORT Category (DRAFT FIELD):  0500  Signalization

Status

Struct.  604-  3-  A  TIMING IMPLEMENTATION  PI

A = Controller Type
1 (Controller)
2 (Controller And Coordination Unit)
3 (Master Clock Unit)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0604 3 1</td>
<td>TIMING IMPLEMENTATION, CONTROLLER</td>
<td>PI</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$539.29</td>
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<tr>
<td>0604 3 2</td>
<td>TIMING IMPLEMENTATION, CONTROLLER &amp; COORDINATION UNIT</td>
<td>PI</td>
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<td>1/1/2007</td>
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<td>$1,139.44</td>
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<td>0604 3 3</td>
<td>TIMING IMPLEMENTATION (MASTER CLOCK UNIT)</td>
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</tbody>
</table>

604- 4- INTERSECTION ANALYSIS & DOCUMENTATION

Notes

Details

This pay item is for traffic signals and traffic control devices only.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

<table>
<thead>
<tr>
<th>Forms</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-03</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
<td></td>
</tr>
</tbody>
</table>

Documentation

| Design | Location in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. |
| Construction | Record final quantity on the tabulation sheet (plans) or computation form (Comp book). |

References

PPM Chapter
Other
Standards
Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)  7, 13
## Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

## 604- 5- A ARTERIAL ANALYSIS & DOCUMENTATION

<table>
<thead>
<tr>
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<th>PA; EA</th>
<th>Accuracy</th>
<th>Per Analysis; Each</th>
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<tbody>
<tr>
<td>Plan</td>
<td>Quantity?</td>
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</table>

**Notes**

This pay item is for traffic signals and traffic control devices only.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
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<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
</tbody>
</table>

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- **PPM Chapter**
- **Other Standards**
- **Specifications**

**Prep & Doc Manual Chapter(s)**: 6, 7, 13

**TRNSPORT Category (DRAFT FIELD):** 0500 Signalization

**Status**

<table>
<thead>
<tr>
<th>Struct.</th>
<th>604- 5- A ARTERIAL ANALYSIS &amp; DOCUMENTATION</th>
<th>PA; EA</th>
</tr>
</thead>
</table>

- **A** = Number Of Timing Patterns Per Section
  1 (1 Timing Pattern)
  2 (2 Timing Patterns)
  3 (3 Timing Patterns)
  5 (5 Timing Patterns)
  6 (6 Timing Patterns)
  8 (8 Timing Patterns)

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>Price</th>
<th>LRE Ref</th>
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</thead>
<tbody>
<tr>
<td>0604 5 3</td>
<td>ARTERIAL ANALYSIS &amp; DOCUMENTATION, 3 TIME PATERN</td>
<td>PA</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$1,894.16</td>
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</tr>
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</table>

**630- 1- AB SIGNALS- CONDUIT**

<table>
<thead>
<tr>
<th>Unit</th>
<th>LF; M1</th>
<th>Accuracy</th>
<th>Linear Foot; 10th of a</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plan</td>
<td>Quantity?</td>
<td>no</td>
<td></td>
</tr>
</tbody>
</table>
### Notes

This pay item is for traffic signals and traffic control devices only. Use 'Underground' in locations where the placement of the conduit will not necessitate saw-cutting of pavement. Most conduit placed on new construction projects will be placed underground prior to the placement of pavement, and should be paid for as 'Underground.' 'Underpavement' should be used when it is necessary to saw-cut and backfill the pavement in order to place the conduit, i.e. EXISTING PAVEMENT.

### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Forms</strong></td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>COMP 700-050-03</td>
</tr>
<tr>
<td><strong>Documentation</strong></td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
</tr>
<tr>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
</tbody>
</table>

### References

- **PPM Chapter**
- **Index No.** 17721
- **Prep & Doc Manual Chapter(s)** 6, 7, 13

### TRNS*PORT Category (DRAFT FIELD):

| 0500 | Signalization |

### Struct. 630-1-AB

**SIGNALS- CONDUIT**

- **A = Operation**
  1 (Furnish & Install)
  2 (Furnish)
  3 (Install)
- **B = Conduit Installation Type**
  1 (Aboveground)
  2 (Underground)
  3 (Underpavement Sawcut) Note: Only when sawcutting is necessary for location under EXISTING PAVEMENT
  4 (Underground - Jacked)
  5 (Bridge Mount)

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0630 1 11</td>
<td>CONDUIT - SIGNALS, FURNISH &amp; INSTALL, ABOVEGROUND</td>
<td>LF</td>
<td>Detail</td>
<td>1/1/2007</td>
<td></td>
<td>$20.78</td>
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<tr>
<td>0630 1 12</td>
<td>CONDUIT - SIGNALS, FURNISH &amp; INSTALL, UNDERGROUND</td>
<td>LF</td>
<td>Detail</td>
<td>1/1/2007</td>
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<td>$5.48</td>
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<tr>
<td>0630 1 13</td>
<td>CONDUIT - SIGNALS, FURNISH &amp; INSTALL, UNDER EXISTING PAVEMENT</td>
<td>LF</td>
<td>Detail</td>
<td>1/1/2007</td>
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<td>$20.36</td>
</tr>
<tr>
<td>0630 1 14</td>
<td>CONDUIT, SIGNALS, F &amp; I, UNDERGROUND-JACKED</td>
<td>LF</td>
<td>Detail</td>
<td>1/1/2007</td>
<td></td>
<td>$17.22</td>
</tr>
</tbody>
</table>
This pay item is for traffic signals and traffic control devices only. Use for runs to flashing beacon, signs, etc. beyond the normal limits of the intersection. Includes cable, support wire, cable ties, cable clamps, lashing wire, terminal connectors and cable grounding. Use item 632- 7- (2632- 7-) for cable within the intersection.
and cable grounding, within the normal limits of the intersection. Consider 632-6-(2632-6-) for runs outside the limits of the intersection.

### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Forms</strong></td>
<td><strong>Design</strong></td>
</tr>
<tr>
<td><strong>Construction</strong></td>
<td><strong>Refer to Comp Book</strong></td>
</tr>
<tr>
<td><strong>Documentation</strong></td>
<td><strong>Design</strong></td>
</tr>
<tr>
<td><strong>Construction</strong></td>
<td><strong>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</strong></td>
</tr>
</tbody>
</table>

### Standards

- Index No. 17727

### Specifications

- PPML Chapter
- Design
- Construction

### Notes

**Status**

**Struct. 632-7-A SIGNALS- CABLE PI**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Adjust)

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
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<tr>
<td>0632 6 3</td>
<td>CABLE - SIGNAL, INSTALL</td>
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<td>0632 7 1</td>
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### 632- 8-ABC SIGNALS- INTERCONNECT CABLE

<table>
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</tr>
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<tbody>
<tr>
<td>LF; M1</td>
<td>Linear Foot; 10th of a Meter</td>
<td>no</td>
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</tbody>
</table>

**Notes**

This pay item is for traffic signals and traffic control devices only.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Forms</strong></td>
<td><strong>Design</strong></td>
</tr>
<tr>
<td><strong>Construction</strong></td>
<td><strong>Refer to Comp Book</strong></td>
</tr>
<tr>
<td><strong>Documentation</strong></td>
<td><strong>Design</strong></td>
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<tr>
<td><strong>Construction</strong></td>
<td><strong>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</strong></td>
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### References

- PPML Chapter
- Design
- Construction

### Other

- Index No. 17733
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tr>
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<td>1/1/2007</td>
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<td>$5.00</td>
</tr>
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</table>

For use in fiber optic networks that support ITS devices and their connection to communication hubs, transportation management centers, and related facilities. Use "overhead" for installations involving bridges and other aboveground structures. Use "underground" for cable placed in buried conduit along the roadside.

******

REMOVE (A=6): For cable to be removed, detail location and size of cable (approximate number of fibers) to be removed. Contractor takes ownership (remove & dispose), unless

Details and Structure: Items 600 to 699
otherwise indicated in the plans or specs.

REMOVE & STOCKPILE (A=7): For cable to be removed, detail location and size of cable (approximate number of fibers) to be removed. FDOT retains ownership of cable. Detail in plans location for stockpile, i.e. Maintenance yard.

### Related Items

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
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<tbody>
<tr>
<td>Forms</td>
<td>Design</td>
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<td>Refer to Comp Book</td>
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<td>Design</td>
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<td>PPM Chapter</td>
<td>Vol 1, Chapter 7</td>
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<td>Preparing &amp; Documentation</td>
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<td></td>
<td>TRNS*PORT Category (DRAFT FIELD): 0500 Signalization</td>
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### Status

**Struct.** 633- 1-ABC SIGNALS- FIBER OPTIC CABLE LF

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)
6 (Remove) BC=00
7 (Remove and Stockpile) BC=00

B= Location
1 (Overhead)
2 (Underground)

C= Number of Fibers in Cable
1 (2 to 12)
2 (13 to 48)
3 (49 to 96)
4 (97 to 144)

### Notes

*Remove item may require plan details and/or tech spec

---

**The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
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**633- 2- AB SIGNALS- FIBER OPTIC CONNECTION**

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<tbody>
<tr>
<td>EA</td>
<td>Each</td>
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</table>

### Notes

New items for Signals use, pending spec approval.

### Details

For use in fiber optic networks where segments of fiber optic cable must be spliced
together, or when cables must be terminated at the end of a segment. Note that each connection involves the fusing of individual optical fibers in a cable. Payment "each" is for each FIBER to be connected. Type of connection must be noted in the plans.

### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
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<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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<tr>
<td>Documentation</td>
<td>Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
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### References

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### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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### Details

*New items for Signals use, pending spec approval.*

For use in fiber optic networks, where segments of cable must be spliced together. This item includes hardware and incidental materials for splices; payment for splicing individual fibers is made under 783-2.

For B=8 (Patch Cord), tech spec needed to describe the patch cord requirements. FO patch cords or Cat5 cables may be considered as incidental to the hardware to be installed. Ensure that the plans/specs clearly define if separate payment will be made for patch cords. Otherwise, payment will be considered as incidental to hardware being installed. When multiple cords/cables are needed, use a tabulation sheet in the plans to clearly identify the number of pairs and length of each cord/cable.
<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
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</thead>
<tbody>
<tr>
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**TRNS*PORT Category (DRAFT FIELD):** 0500 Signalization

**Status**

**Struct. 633- 3- AB** SIGNALS- FIBER OPTIC CONNECTION HARDWARE EA

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)

B=Component
1 (Splice Enclosure)
2 (Splice Tray)
3 (Preterminated Connector Assembly)
4 (Buffer Tube Fan Out Kit)
5 (Patch Panel, Preterminated)
6 (Patch Panel, Field Terminated)
7 (Connector Panel)
8 (Patch Cord)* Tech Spec needed; see BOE detail

**Notes**
*B=8: Tech Spec needed. Coordinate the use of this item with ITS Office.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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**633- 4-1AB** SIGNALS CONDUIT

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<tbody>
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<td>Linear Foot; 10th of a Meter</td>
<td>no</td>
</tr>
</tbody>
</table>

**Notes**
New items for Signals use, pending spec approval.

**Details**
For fiber optic cable and Signals devices only.
Underground: to be used when conduit is installed prior to placement of pavement, or where it does not interfere with existing pavement.
Underpavement Sawcut: to be used only when sawcutting is necessary for location under...
EXISTING PAVEMENT.

Note: Specification change effective 7-1-08 letting has separate payment for Electronic Locate Transmitter & Receiver. Refer to specification for payment details.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
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<tbody>
<tr>
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</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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<tr>
<td>Documentation Design</td>
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<tr>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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**References**
- PPM Chapter
- Other Standards
- Specifications
- Prep & Doc Manual Chapter(s)

**TRNS*PORT Category (DRAFT FIELD):**
0500 Signalization

**Status**

**Struct.** 633- 4-1AB SIGNALS CONDUIT LF

A= Operation
1 (Furnish & Install)
2 (Furnish) B=0
3 (Install)
4 (Relocate)
5 (Adjust /Modify)
6 (Remove and Dispose) B=0

B= Location
1 (Aboveground)
2 (Underground)
3 (Underpavement Sawcut) Note: to be used only when sawcutting is necessary
9 (Special)*

**Notes**
- *Special to be used only with approval of the ITS Office
- Plan Details and/or Tech Specs needed for Install, Relocate, Adjust/Modify, and Remove items.

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

**633- 5- A SIGNALS- PULL BOX FOR FIBER OPTIC**

<table>
<thead>
<tr>
<th>Unit</th>
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<th>Accuracy</th>
<th>Each</th>
<th>PlanQuantity?</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>no</td>
</tr>
</tbody>
</table>

**Notes**
- New items for Signals use, pending spec approval.

**Details**
For use in fiber optic networks as an access point for moving cable into position during installation. Refer to specification for size, materials, and other details for box.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
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<tbody>
<tr>
<td>Forms Design</td>
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<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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<tr>
<td>Documentation Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
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<tr>
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Details and Structure: Items 600 to 699
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Unit</th>
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<th>Plan</th>
<th>Quantity?</th>
<th>Notes</th>
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<td>633- 6- A</td>
<td>SIGNALS SPLICE BOX FOR FIBER OPTIC</td>
<td>EA</td>
<td></td>
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<td>New items for Signals use, pending spec approval.</td>
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</tbody>
</table>

Details:
For use in fiber optic networks as a housing for the connection or termination of cable segments. Refer to specification for size, materials, and other details for box.

REMOVE AND DISPOSE (A=6): Detail size and location in the plans. Contractor assumes ownership after removal for disposal by the contractor.
REMOVE AND STOCKPILE (A=7): Detail size and location in the plans. FDOT retains ownership of the item. Detail location for stockpile, i.e. Maintenance yard or project Right of way.

Related Items:
- Required: SHTabQuant
- Recommended: COMP 700-050-03

Forms:
- Design: Refer to Comp Book

Documentation:
- Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References:
- PPM Chapter
- Other
- Standards
- Specifications

Prep & Doc Manual Chapter(s):
- TRNS*PORT Category (DRAFT FIELD): 0500 Signalization
A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)
6 (Remove & Dispose)

Notes
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

633- 7- A  SIGNALS PULL AND JUNCTION BOX

<table>
<thead>
<tr>
<th>Unit</th>
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</thead>
<tbody>
<tr>
<td>Notes</td>
<td></td>
<td></td>
<td></td>
<td>no</td>
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</table>

Details
New items for Signals use, pending spec approval.

For use on Signals projects. To be used for non-fiber optic wiring needs (power, communication, etc for Signals systems). Full details/specs are needed for this item. Designer may refer to other specification sections, as needed to detail required box.

NOTE: THIS ITEM IS NOT covered by current 783 specification.

For Pull/Junction or Splice Box for Fiber Optics, refer to items 783-5 and 783-6, as detailed in the specifications.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

*********
REMOVE AND STOCKPILE (A=7): Detail size and location in the plans. FDOT retains ownership of the item. Detail location for stockpile, i.e. Maintenance yard or project Right of way.

Related Items
<table>
<thead>
<tr>
<th>Forms</th>
<th>Required</th>
<th>Recommended</th>
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<tbody>
<tr>
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Documentation
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<th>Construction</th>
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</table>

References
PPM Chapter
Other
Specifications
Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status
Struct.  633- 7- A  SIGNALS PULL AND JUNCTION BOX  EA

A= Operation
1 (Furnish & Install)
2 (Furnish)
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

633-8-A SIGNALS MULTI-CONDUCTOR COMMUNICATION CABLE

| Unit   | LF; M1  | Accuracy | Linear Foot; 10th of a Meter | PlanQuantity? | no |

Notes: New items for Signals use, pending spec approval.

Details: For use on Signals projects. Tech Spec and/or plan detail needed to specify material requirements and/or number of conductors. Primarily for communications, may carry incidental low voltage device power. When multiple cables are needed, use a tabulation sheet in the plans to clearly identify the number of pairs and length of each cable. Record the total length for payment under this pay item.

Note: FO patch cords or Cat5 cables may be considered as incidental to the hardware to be installed. Refer to 783-3 for patch cords.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Required: SHTabQuant
Recommended: COMP 700-050-03

Prep & Doc Manual Chapter(s): Refer to Comp Book

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. 633-8-A SIGNALS MULTI-CONDUCTOR COMMUNICATION CABLE

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)

Notes: The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Details and Structure: Items 600 to 699

Page 15 of 73
### 633- 9- AB  SIGNALS LOCATE SYSTEM ELECTRONIC EQUIPMENT

<table>
<thead>
<tr>
<th>Unit</th>
<th>EA</th>
<th>Accuracy</th>
<th>Each</th>
<th>PlanQuantity?</th>
<th>no</th>
</tr>
</thead>
</table>

**Notes**
New items for Signals use, pending spec approval.

**Details**
For use on Signals projects. This pay item is intended for the electronic equipment used to detect buried conduit and other underground duct, cable, and infrastructure. The electronics used for this activity typically includes a portable transmitter, a hand-held receiver, and electronic markers that can be used together to determine the location of the underground utilities and other objects. Special configuration and/or installation details should be detailed in the plans on a project-by-project basis.

Electronic Box Marker: Specifications call for one electronic box marker in each pull box and splice box buried below finish grade. Additional markers may be used for existing Signals boxes within project limits.

NOTE: This item effective with the July 2008 letting; for projects let prior to July 2008, transmitter and receiver are included in the Signals conduit price, per specifications.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
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</thead>
<tbody>
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<td>Forms</td>
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<tr>
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**Prep & Doc Manual Chapter(s)**

**TRNS*PORT Category (DRAFT FIELD):** 0500 Signalization

**Status**

**Struct.** 633- 9- AB SIGNALS LOCATE SYSTEM ELECTRONIC EQUIPMENT EA

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)

B = Equipment Type
1 (Transmitter)
2 (Receiver)
3 (Electronic Box Marker) Note: Do not use this item for Electronic Route Markers

**Notes**

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

---

### 633-ABC- D  SIGNALS- FIBER OPTIC CABLE

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Details and Structure: Items 600 to 699
Valid through ????, pending implementation of new Section 633 specification.

This pay item is for traffic signals and traffic control devices only. NOT TO BE USED FOR ITS Projects. Refer to 780 items.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<th>Item</th>
<th>Description</th>
<th>Unit</th>
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<tbody>
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**Notes**

Valid through ????, pending implementation of new Section 633 specification.

This pay item is for traffic signals and traffic control devices only. NOT TO BE USED FOR ITS Projects. Refer to 780 items.

**Related Items**

**Required**

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**Prep & Doc Manual Chapter(s)**

7, 13

**Status**

**Struct.** 633-ABC- D SIGNALS- FIBER OPTIC CABLE LF

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)

B = Type Of Interconnect Cable Installation
1 (Aerial)
2 (Underground)
3 (Drop)

C = Type Of Fiber
1 (Single Mode)
2 (Multi Mode)
3 (Composite)

D = Number Of Fibers In Cable
1 ( 1 - 25)
2 ( 26 - 50)
3 ( 51 - 100)
4 (101 - 150)
5 (151 - 200)
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**634- 4-ABC SIGNALS- SPAN WIRE ASSEMBLY**

**Notes**

- Effective Date for single wire pending.

**Details**

- This pay item is for traffic signals and traffic control devices only.
### Required and Recommended Standards

<table>
<thead>
<tr>
<th>Index No.</th>
<th>Specifications</th>
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<tbody>
<tr>
<td>17356, 17727</td>
<td>Specifications</td>
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### Specifications

**A = Operation**
- 1 (Furnish & Install)
- 2 (Furnish)
- 3 (Install)
- 4 (Adjust)

**B = Type Assembly**
- 0 (One Wire)
- 1 (Two Wire)
- 2 (Three Wire)

**C = Type Span**
- 1 (Perpendicular)
- 2 (Diagonal)
- 3 (Box)
- 4 (Other - As Shown In Plans)

### Notes

- **Status**
- **Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.**
- **Record final quantity on the tabulation sheet (plans) or computation form (comp book).**

### Related Items

<table>
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**PPM Chapter**
- 6, 7, 13

**Prep & Doc Manual Chapter(s)**
- 6, 7, 13

### TRNS*PORT Category (DRAFT FIELD):

- 0500  Signalization

### Structures

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**The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.**

**Details and Structure:** Items 600 to 699
0634 4412 SPAN WIRE ASSEMBLY, ADJUST, 2 WIRE, DIAGONAL PI 1/1/2007 $1,066.67
0634 4413 SPAN WIRE ASSEMBLY, ADJUST, 2 WIRE, BOX PI 1/1/2007 $2,319.20
0634 4414 SPAN WIRE ASSEMBLY, ADJUST, 2 WIRE, OTHER PI 1/1/2007 $2,304.40

634- 5- A SIGNALS- FIBERGLASS INSULATOR

Unit LF; M1 Accuracy Linear Foot; 10th of a Meter PlanQuantity? no

Details
This pay item is for traffic signals and traffic control devices only.

Related Items
Required Recommended
Forms Design SHTabQuant COMP 700-050-03
Construction Design Refer to Comp Book

Documentation
Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References
PPM Chapter
Other
Standards
Specifications
Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item Description Unit TSP/Detail Valid Date Obsolete Date LRE Ref Price
0634 5 1 FIBERGLASS INSULATOR, FURNISH & INSTALL LF 1/1/2007 $25.07

634- 6- A SIGNALS- MESSENER WIRE

Unit LF; M1 Accuracy Linear Foot; 10th of a Meter PlanQuantity? no

Details
This pay item is for traffic signals and traffic control devices only.

Related Items
Required Recommended
Forms Design SHTabQuant COMP 700-050-03

Details and Structure: Items 600 to 699
### Item Description

**Item Number:** 634-6  
**Description:** SIGNALS- MESSENGER WIRE

**Unit:** LF

**Operation Details:**
- **Operation:** A = Operation (Furnish & Install)  
- **Operation:** 1 (Furnish & Install)  
- **Operation:** 2 (Furnish)  
- **Operation:** 3 (Install)

**Notes:**
- **Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.**
- **Record final quantity on the tabulation sheet (plans) or computation form (comp book).**

**Status:**
- **Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.**
- **Record final quantity on the tabulation sheet (plans) or computation form (comp book).**

### Item Description

**Item Number:** 634-7  
**Description:** SIGNALS- CABLE, ADJUST

**Unit:** EA

**Accuracy:** Each

**Plan Quantity?:** no

**Notes:**
- This pay item is for traffic signals and traffic control devices only.

**Related Items:**
- **Required Forms:** Design - SHTabQuant  
- **Recommended Forms:** Construction - COMP 700-050-03

**Documentation:**
- **Design:** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction:** Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### Item Description

**Item Number:** 634-7  
**Description:** SIGNALS- CABLE, ADJUST

**Unit:** EA

**Accuracy:** Each

**Plan Quantity?:** no

**Notes:**
- This pay item is for traffic signals and traffic control devices only.

**Related Items:**
- **Required Forms:** Design - SHTabQuant  
- **Recommended Forms:** Construction - COMP 700-050-03

**Documentation:**
- **Design:** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction:** Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### Item Description

**Item Number:** 634-7  
**Description:** SIGNALS- CABLE, ADJUST

**Unit:** EA

**Accuracy:** Each

**Plan Quantity?:** no

**Notes:**
- This pay item is for traffic signals and traffic control devices only.

**Related Items:**
- **Required Forms:** Design - SHTabQuant  
- **Recommended Forms:** Construction - COMP 700-050-03

**Documentation:**
- **Design:** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction:** Record final quantity on the tabulation sheet (plans) or computation form (comp book).
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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**635- 1- AB SIGNALS- PULL & JUNCTION BOXES**

**Unit**: EA  
**Accuracy**: Each  
**Plan Quantity?**: no

**Notes**

This pay item is for traffic signals and traffic control devices only. NOT TO BE USED FOR ITS Projects. Refer to 780 items. Use in accordance with Section 635 of the specifications. For Special sizes, detail in the plans or specifications.

Install (A=3): Plan details required to inform contractor how to obtain pull & junction box. Include Agency name, contact name & number, storage location, and/or delivery instructions (agency delivery or contractor pick-up).

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

**Required**  
**Design**: SHTabQuant  
**Construction**: Refer to Comp Book

**Recommended**  
**Design**: COMP 700-050-03  
**Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

**PPM Chapter**

**Other**

**Standards**: Index No. 17500, 17503, 17733

**Specifications**

*Selected Items may require Tech Spec and/or Plan Detail

**Prep & Doc Manual Chapter(s)**: 7, 13

**TRNS*PORT Category (DRAFT FIELD)**: 0500 Signalization

**Status**

**Struct.**: 635- 1- AB SIGNALS- PULL & JUNCTION BOXES

A = Operation  
1 (Furnish & Install)  
2 (Furnish)  
3 (Install) B=0  
B = Type Of Box  
1 (Pull Box)  
2 (Aerial Junction Box)  
3 (Mounted Junction Box)  
4 (Telephone Termination Assembly)  
5 (Fiber Optics)  
6 (Special)*

**Notes**

* Special may require Tech Spec and/or Plan Detail

Details and Structure: Items 600 to 699
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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639- 1-AB SIGNALS- ELECTRICAL POWER SERVICE

**Unit**: AS  **Accuracy**: Assembly  **PlanQuantity?**: no

**Notes**
This pay item is for traffic signals and traffic control devices only.

**Related Items**
- Required
- Recommended

**Forms**
- Design: SHTabQuant
- Construction: COMP 700-050-03

**Documentation**
- Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**
- PPM Chapter
- Other
- Standards: Index No. 17736
- Specifications

**Prep & Doc Manual Chapter(s)**: 6, 7, 13

**TRNS*PORT Category (DRAFT FIELD)**: 0500 Signalization

**Structure**
639- 1-AB SIGNALS- ELECTRICAL POWER SERVICE AS

A = Type Of Service
1 (Overhead)
2 (Underground)

B = Meter Base
1 (Furnished By Power Company)
2 (Purchased By Contractor From Power Company)
3 (Not Required)

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref</th>
<th>Price</th>
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<tbody>
<tr>
<td>0635 1 30</td>
<td>PULL &amp; JUNCTION BOXES, INSTALL</td>
<td>EA</td>
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<td>1/1/2007</td>
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<tr>
<td>0639 1 11</td>
<td>SIGNALS, ELECTRICAL POWER SERVICE, OVERHEAD, METER FURNISHED BY POWER COMPANY</td>
<td>AS</td>
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<td>1/1/2007</td>
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<td>$1,929.70</td>
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<tr>
<td>0639 1 21</td>
<td>SIGNALS, ELECTRICAL POWER SERVICE, UNDERGROUND, METER FURNISHED BY POWER COMPANY</td>
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<tr>
<td>0639 1 22</td>
<td>SIGNALS, ELECTRICAL POWER SERVICE, UNDERGROUND, PURCHASED BY CONTRACTOR FROM POWER COMPANY</td>
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<td>$1,168.37</td>
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</table>

### 639- 2- A SIGNALS- ELECTRICAL SERVICE WIRE

| Unit   | LF; M1 | Accuracy | Linear Foot; 10th of a Meter | PlanQuantity? | no |

**Notes**

This pay item is for traffic signals and traffic control devices only. Payment shall be based on the linear foot (meter) of a single conductor. Refer to Specifications.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
</tbody>
</table>

**Documentation**

| Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. |
| Construction | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

**References**

<table>
<thead>
<tr>
<th>PPM Chapter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other</td>
</tr>
</tbody>
</table>

**Prep & Doc Manual Chapter(s)** 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0500 Signalization

**Status**

| Struct. | 639- 2- A SIGNALS- ELECTRICAL SERVICE WIRE | LF |

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

**Notes**

Details and Structure: Items 600 to 699
### Topic No. 600-000-002

#### Basis of Estimates

**2009 Edition**  
**October 6, 2008**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
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</table>

#### 639- 3- AB  
**SIGNALS- ELECTRICAL SERVICE DISCONNECT**

<table>
<thead>
<tr>
<th>Notes</th>
<th>Details</th>
<th>Related Items</th>
<th>Forms</th>
<th>Documentation</th>
<th>References</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>This pay item is for traffic signals and traffic control devices only.</td>
<td>Required</td>
<td>Design</td>
<td>Refer to Comp Book</td>
<td>PPM Chapter</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>Recommended</td>
<td>SHTabQuant</td>
<td>COMP 700-050-03</td>
<td>Other</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
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<td>Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
<td>Standards</td>
<td>Index No. 17736</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
<td>Specifications</td>
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</tr>
<tr>
<td></td>
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<td>Prep &amp; Doc Manual Chapter(s)</td>
<td>7, 13</td>
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</table>

**TRNS*PORT Category (DRAFT FIELD):** 0500 Signalization

<table>
<thead>
<tr>
<th>Notes</th>
<th>Details</th>
<th>Related Items</th>
<th>Forms</th>
<th>Documentation</th>
<th>References</th>
<th>Status</th>
</tr>
</thead>
</table>
|       | A = Operation  
1 (Furnish & Install)  
2 (Furnish)  
3 (Install)  
B = Type Mount  
1 (Pole)  
2 (Cabinet) | Required | Design | SHTabQuant | COMP 700-050-03 | Other |        |
|       |       | Recommended |       |               | Standards |        |
|       |       |       |       |               | Specifications |        |
|       |       |       |       |               | Prep & Doc Manual Chapter(s) | 7, 13 |

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0639 3 11</td>
<td>SIGNALS, ELECTRICAL SERVICE DISCONNECT, F&amp;I, POLE MOUNT</td>
<td>EA</td>
<td>1/1/2007</td>
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<td>901.82</td>
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</tr>
<tr>
<td>0639 3 12</td>
<td>SIGNALS, ELECTRICAL SERVICE DISCONNECT, F&amp;I, CABINET</td>
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<td>1/1/2007</td>
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<td>571.87</td>
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</table>

#### 639- 4- A  
**SIGNALS- EMERGENCY GENERATOR**

<table>
<thead>
<tr>
<th>Notes</th>
<th>Details</th>
<th>Related Items</th>
<th>Forms</th>
<th>Documentation</th>
<th>References</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>This pay item is for traffic signals and traffic control devices only.</td>
<td>Required</td>
<td>Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-03</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>Recommended</td>
<td></td>
<td></td>
<td>Standards</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
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<td></td>
<td></td>
<td>Specifications</td>
<td></td>
</tr>
<tr>
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<td></td>
<td></td>
<td>Prep &amp; Doc Manual Chapter(s)</td>
<td>7, 13</td>
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</table>

**Details and Structure: Items 600 to 699**
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0639 4 1</td>
<td>EMERGENCY GENERATOR - SIGNALS USE ONLY, F&amp;I</td>
<td>AS</td>
<td>8/1/2008</td>
<td>8/10/2008</td>
<td>$6,000.00</td>
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</tr>
</tbody>
</table>

**641- 1-** SIGNALS- STRAIN POLES, GUYING, CONCRETE

Notes
Details
- This pay item is for traffic signals and traffic control devices only.
Related Items
- **Required**: Design
  - SHTabQuant
- **Recommended**: COMP 700-050-03
Forms
- **Design**: Refer to Comp Book
  - **Construction**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
  - **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References
- PPM Chapter
- Other
- Standards
  - Index No. 17725
- Specifications
Prep & Doc Manual Chapter(s) 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0500 Signalization
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0641</td>
<td>STRAIN POLES GUYING, CONCRETE</td>
<td>EA</td>
<td>1/1/2007</td>
<td>1/1/2007</td>
<td>$615.00</td>
<td></td>
</tr>
</tbody>
</table>

### 641- 2- AB  PRESTRESSED CONCRETE POLES

**Unit**: EA  **Accuracy**: Each  **PlanQuantity?**: no

**Notes**: Effective January 2008; replaces 641- AB-CDD

**Details**: This pay item is for traffic signals and traffic control devices only. Pole description, including the type, height, and other details must be included in the signal plans, to be used as detailed on index 17725. Poles must be on QPL list.

**Related Items**: Required: SHTabQuant  Recommended: COMP 700-050-03

**Forms**: Design: Refer to Comp Book

**Documentation**: Design: Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**: PPM Chapter

**Standards**: Index No. 17725

**Specifications**: Prepar & Doc Manual Chapter(s)

**TRNS*PORT Category (DRAFT FIELD)**: 0500 Signalization

**Status**: A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) B=0

B = Pole Type (defined in Design Standards)
1 (Type P-II Pedestal)
2 (Type P-II Service Pole)
3 (Type P-III)
4 (Type P-IV)
5 (Type P-V)
6 (Type P-VI)
7 (Type P-VII)
8 (Type P-VIII)
9 (Custom Design)*

**Notes**: *Custom Design requires Tech Spec and/or Plan Detail

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The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0641 2 11</td>
<td>PRESTRESSED CONCRETE POLE, F&amp;I, TYPE P-II PEDESTAL</td>
<td>EA</td>
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<tr>
<td>0641 2 12</td>
<td>PRESTRESSED CONCRETE POLE, F&amp;I, TYPE P-II SERVICE POLE</td>
<td>EA</td>
<td>10/1/2007</td>
<td>$838.82</td>
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<tr>
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<td>PRESTRESSED CONCRETE POLE, F&amp;I, TYPE P-III</td>
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<td>0641 2 17</td>
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<td>0641 2 19</td>
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<td>EA</td>
<td>1/1/2008</td>
<td>$800.00</td>
</tr>
</tbody>
</table>

### 643- 1- STRAIN POLES, GUYING, WOOD

| Unit | EA | Accuracy | Each | PlanQuantity? | no |

**Notes**

- This pay item is for traffic signals and traffic control devices only.

**Related Items**

- **Required**
  - Design: SHTabQuant
  - Construction: Refer to Comp Book

- **Recommended**
  - Design: COMP 700-050-03
  - Construction: Refer to Comp Book

**Documentation**

- Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
  - Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- PPM Chapter
  - Other
- Standards: Index No. 17356, 17727
- Specifications
- Prep & Doc Manual Chapter(s): 7, 13

**TRNS*PORT Category (DRAFT FIELD):**

| 0500 | Signalization |

**Status**

- **Struct.**

**Notes**

---

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*
# Topic No. 600-000-002
## Basis of Estimates

### 643-ABB-
**STRAIN POLES, WOOD**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0643</td>
<td>STRAIN POLES, GUYING, WOOD</td>
<td>EA</td>
<td>1/1/2007</td>
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<td>$800.00</td>
</tr>
</tbody>
</table>

**Notes**

- **Unit**: EA
- **Accuracy**: Each
- **PlanQuantity?**: no

**Details**

This pay item is for traffic signals and traffic control devices only.

**Related Items**

- **Required**: 643-1
- **Recommended**: 643-1- (2643-1)

**Forms**

- **Design**: SHTabQuant
- **Construction**: Refer to Comp Book

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- **PPM Chapter**: 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0500 Signalization

**Status**

**Struct.** 643-ABB-

- STRAIN POLES, WOOD EA

  A = Operation
  1 (Furnish & Install)
  2 (Furnish)
  3 (Install)

  BB = Pole Length (Specified In 5' Increments Only)

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<tr>
<th>Item</th>
<th>Description</th>
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<th>LRE Ref Price</th>
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<tbody>
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<tr>
<td>0643130</td>
<td>STRAIN POLES, WOOD, FURNISH &amp; INSTALL, 30'</td>
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<td>0643140</td>
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<td>0643145</td>
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<td>1/1/2007</td>
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<td>0643150</td>
<td>STRAIN POLE, WOOD, F&amp;I, 50'</td>
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<td>1/1/2007</td>
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<td>$800.00</td>
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</tbody>
</table>

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### 649-1-AB
**STEEL STRAIN POLES**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
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<td>STRAIN POLE, WOOD, F&amp;I, 25'</td>
<td>EA</td>
<td>1/1/2007</td>
<td></td>
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<td>$300.00</td>
</tr>
<tr>
<td>0643130</td>
<td>STRAIN POLES, WOOD, FURNISH &amp; INSTALL, 30'</td>
<td>EA</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$0.00</td>
</tr>
<tr>
<td>0643140</td>
<td>STRAIN POLE, WOOD, FURNISH &amp; INSTALL, 40'</td>
<td>EA</td>
<td>1/1/2007</td>
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<td>$0.00</td>
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<tr>
<td>0643145</td>
<td>STRAIN POLES, WOOD, FURNISH &amp; INSTALL, 45'</td>
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<td>1/1/2007</td>
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<td>$0.00</td>
</tr>
<tr>
<td>0643150</td>
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<td>1/1/2007</td>
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<td>$800.00</td>
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</table>

**Notes**

- Effective January 2008; replaces 649-1-BCC

**Details**

This pay item is for traffic signals and traffic control devices only. Pole description, including the type, height, and other details must be included in the signal.
plans.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td>Design</td>
<td>SHTabQuant</td>
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<td></td>
<td>Construction</td>
<td>Refer to Comp Book</td>
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<tr>
<td>Documentation</td>
<td>Design</td>
<td>Construction</td>
</tr>
<tr>
<td></td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
<td></td>
</tr>
<tr>
<td>Standards</td>
<td>PPM Chapter</td>
<td>Other</td>
</tr>
<tr>
<td>Specifications</td>
<td></td>
<td>Standards Specifications</td>
</tr>
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</table>
*Selected Items may require Tech Spec and/or Plan Detail

Prep & Doc Manual Chapter(s)

**TRNS*PORT Category (DRAFT FIELD):** 0500 Signalization

**Struct.** 649-1-AB STEEL STRAIN POLES EA

A= Operation
1 (Furnish & Install)  
2 (Furnish)  
3 (Install) B=0

B = Pole Type (defined in Design Standards)  
1 (Type PS-IV)  
2 (Type PS-V)  
3 (Type PS-VI)  
4 (Type PS-VII)  
5 (Type PS-VIII)  
6 (Type PS-IX)  
7 (Type PS-X)  
9 (Custom)*

**Notes**  
* Custom may require Tech Spec and/or Plan Detail

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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649-1A-BBB MONOTUBE ASSEMBLIES, STEEL

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Details and Structure: Items 600 to 699
Notes
Valid through December 2007.

Details
This pay item is for traffic signals and traffic control devices only.

After December 2007: Design Standards are no longer available. Please contact the State Structures Office for assistance. Ensure that the maintaining agency and local authorities have agreed to the use of a monotube. Contact the Estimates Office to request replacement pay item(s). Tech Specs and/or Plan Details will be required.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

NOT TO BE USED FOR ITS Projects. Refer to 780 items.

Item used for monotube structures which carry signals. Refer to Plans Preparation Manual, Vol I Chapters 7 and 29, Vol II Chapter 24 for details.

Use Monotube Tabulation Sheet (available from CADD bar menu). Structures Office will determine configuration required.

Foundation included on standard; special foundation determined by structures engineer and included in plans.

Standards available in English units only; English standards may be used on metric projects.

Special: Tech Spec and/or plan detail required. Coordinate with District Specs Office

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<th>Related Items</th>
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**TRNS**PORT Category (DRAFT FIELD): 0500 Signalization

Status

**Struct.** 649- 1A-BBB MONOTUBE ASSEMBLIES, STEEL EA

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

BBB =
001 (Special) see detail
002 (Special 2) see detail
003 (Special 3) see detail
110 (Standard 110’ span)
135 (Standard 135’ span)
160 (Standard 160’ span)
185 (Standard 185’ span)
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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649-3A-BCC  STEEL MAST ARM ASSEMBLY

**Notes**

**Details**

This pay item is for traffic signals and traffic control devices only.

Pole description, including the type, height, and other details must be included in the signal plans. Payment includes foundation, as well as all incidentals, per specifications.

B=9 (Custom) to be used only when specifications and/or standards do not apply, due to significant design changes.

When street name signs are to be located on a signals mast arm, tabulate and detail the sign (size, shape, letters, etc.) in the SIGNING plans. Load the pay item in the SIGNING category. The installation location may be shown on the signal plans.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

**Required**

**Recommended**

**Forms**

**Design**

SHMastArmTab1; SHMast

**Construction**

Refer to Comp Book

**Documentation**

**Design**

**Construction**

Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter

Other

Standards

Specifications

*Selected Items may require Tech Spec and/or Plan Detail

**TRNS*PORT Category (DRAFT FIELD):** 0500 Signalization

**Status**

**Struct.** 649-3A-BCC STEEL MAST ARM ASSEMBLY EA

A = Operation

1 (Furnish & Install)

2 (Furnish)
3 (Install) BCC=000
4 (Relocate) BCC=000

B= Wind Speed
1 (150 with signal backplates)
2 (130 with signal backplates or 150 without signal backplates)
3 (110 with signal backplates)
9 (Custom) CC=99*

CC= Arm Length(s)
For Single Arm, w/o Luminaire
01 (36)
02 (46)
03 (60)
04 (70.5)
05 (78)
For Single Arm w/ Luminaire
06 (36)
07 (46)
08 (60)
09 (70.5)
For Double Arm w/o Luminaire
10 (36-36)
11 (36-46)
12 (36-60)
13 (36-70.5)
14 (46-46)
15 (46-60)
16 (46-70.5)
17 (60-60)
18 (60-70.5)
19 (70.5-70.5)
Custom/Non-Standard Arm Combinations
99= Custom*

Notes
*BC=99 (Custom) for non-standard designs. Verify with Roadway Design Office prior to opening.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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This pay item is for traffic signals and traffic control devices only. Refer to Plans Preparation Manual- Vol I Chapter 29, Vol II Chapter 24, and/or Standards for details. Mast Arm Tabulation Sheet required in plans, in addition to tabulation of quantities.

If a Mast Arm assembly is required that differs from the standards, then a special design is performed and the details placed in the plans.

Mast Arms "A" to be replaced by "B".

Mast Arms "B" for 110 MPH wind w/signal backplate.
Mast Arms "C" for 90 MPH wind w/signal backplate, or 110 MPH wind, without backplate.
Arm and pole types, as noted in standards and pay item structure.
Foundation design is included on standard. Special Foundation designs to be determined by Structures Engineer and included with the plans, if needed.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

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<th>Related Items</th>
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<th>Recommended</th>
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<td>Forms</td>
<td>Design</td>
<td>SHTabQuant</td>
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<td>Standards</td>
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<td>Specifications</td>
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*Selected Items may require Tech Spec and/or Plan Detail

**Prep & Doc Manual Chapter(s)** 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0500 Signalization

**Struct.** 649-ABC-DEE MAST ARM ASSEMBLY EA

A = Operation
4 (Furnish & Install / high loading)
5 (Furnish / high loading)
6 (Install / high loading)
7 (Furnish & Install / reduced loading)
8 (Furnish / reduced loading)
9 (Install / reduced loading)
B = Structure Type
1 (Single Arm Without Luminaire)
2 (Double Arm Without Luminaire)
3 (Single Arm With Luminaire)
4 (Special Design) C = 0, DEE = blank
C = First Arm Type (A=4-6)
1 (B1)
2 (B2)
3 (B3)
4 (B4)
5 (B5)
6 (B6)
7 (B7)
C = First Arm Type (A=7-9)
  1 (C1)
  2 (C2)
  3 (C3)
  4 (C4)
  5 (C5)
  6 (C6)
  7 (C7)
D = Second Arm Type (A=4-6)
  0 (No Second Arm)
  1 (B1)
  2 (B2)
  3 (B3)
  4 (B4)
  5 (B5)
  6 (B6)
D = Second Arm Type (A=7-9)
  0 (No Second Arm)
  1 (C1)
  2 (C2)
  3 (C3)
  4 (C4)
  5 (C5)
  6 (C6)
EE = Upright Pole Type (A=4-6)
  01 (Q1)
  02 (Q2)
  03 (Q3)
  04 (Q4)
  05 (Q5)
  06 (Q6)
  07 (Q21 Lum)
  08 (Q22 Lum)
  09 (Q23 Lum)
 10 (Q24 Lum)
 11 (Special Design)
EE = Upright Pole Type (A=7-9)
  01 (R1)
  02 (R2)
  03 (R3)
  04 (R4)
  05 (R5)
  06 (R6)
  07 (R21 Lum)
  08 (R22 Lum)
  09 (R23 Lum)
 10 (R24 Lum)
 11 (Special Design)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
This pay item is for traffic signals and traffic control devices only. Includes standard traffic signal, with LED indicators, and all other materials necessary for a complete and accepted installation.

Relocate: Includes the removal of the signal head and installation at the location shown in the plans. This includes signal cable and all other materials necessary for a complete and accepted relocation.

Special: DO NOT Use this item for LED (standard) signals. "Special" types should be submitted to the State Traffic Ops office for review.

### Related Items

**Forms**
- Required: SHTabQuant
- Recommended: COMP 700-050-03

**Documentation**
- Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References

PPM Chapter
- 7, 13

**Prep & Doc Manual Chapter(s)**
- 7, 13

### TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

### Structure: 650-5A-BCD

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### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Obsolete Date</th>
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Details and Structure: Items 600 to 699
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0650 51522 TRAFFIC SIGNAL, F&I, 5 SECTIONS, 2 WAY, LIGHT WEIGHT AS 1/1/2007 $2,498.75
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0650 54 TRAFFIC SIGNAL, RELOCATE AS 1/1/2007 $206.85

653-ABC- PEDESTRIAN SIGNAL

Unit AS Accuracy Assembly PlanQuantity? no

Notes
Details This pay item is for traffic signals and traffic control devices only.

Related Items

Required Recommended
Forms Design SHTabQuant COMP 700-050-03
Construction Refer to Comp Book

Documentation

Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter Index No. 17764, 17784
Other Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. 653-ABC- PEDESTRIAN SIGNAL AS

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate) BC=00
B = Type Signal
1 (12" Incandescent)
2 (12" Fiber Optic)
3 (Optically Programmed)
4 (Neon)
5 (9" Incandescent)
6 (9" Fiber Optic)
7 (Neon International Symbol Low Wattage)
8 (LED)
9 (LED- Countdown) STANDARD
C = Number Of Directions (Ways)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Details and Structure: Items 600 to 699
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<thead>
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<th>Item</th>
<th>Description</th>
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### 659-ABB-SIGNAL HEAD AUXILIARIES

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<th>Each</th>
<th>PlanQuantity?</th>
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**Notes**
This pay item is for traffic signals and traffic control devices only.

**Related Items**

- **Required**
  - Design: SHTabQuant
  - Construction: COMP 700-050-03

- **Recommended**
  - Design: Refer to Comp Book

**Forms**

- Design: LOCATE IN PLANS. SUMMARIZE QUANTITIES BY LOCATION ON TABULATION OF QUANTITIES

---

Details and Structure: Items 600 to 699
sheet in the plans, or detail calculations in the computation book.

**Construction**
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

**PPM Chapter**

**Other**

**Specifications**

**Prep & Doc Manual Chapter(s)** 7, 13

---

**TRNS*PORT Category (DRAFT FIELD):** 0500 Signalization

---

**Struct.** 659-ABB-

**SIGNAL HEAD AUXILIARIES**

**EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
BB = 01 (Back Plates, 3 Section)
02 (Back Plates, 4 Section)
03 (Disconnect Hanger)
04 (Signal Lamps 140 Watt Max.)
05 (Signal Lamps 60 Watt Max.)
06 (Tunnel Visor)
07 (Aluminum Pedestal)
08 (Steel Pedestal)
09 (Concrete Pedestal, Type II)
10 (Louvers)
11 (Back Plates, 1-Section)
12 (Mounting Brackets, 2-Way)
13 (Mounting Brackets, 3-Way)
14 (Mounting Brackets, 4-Way)
15 (12” Lens)
16 (8” Lens)
17 (Signal Frame)
18 (Back Plates, 5-Section Cluster)
20 (LED Module)

---

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<th>LRE Ref Price</th>
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**Details and Structure:** Items 600 to 699
### 660- 1-ABB  LOOP DETECTOR, INDUCTIVE

**Unit** EA  **Accuracy** Each  **PlanQuantity?** no

**Notes**
This pay item is for traffic signals and traffic control devices only.

**Related Items**
- **Required**
- **Recommended**

**Forms**
- **Design** SHTabQuant
- **Construction** Refer to Comp Book

**Documentation**
- **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction** Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**
- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**
- **Prep & Doc Manual Chapter(s)** 7, 13

**TRNS**PORT Category (DRAFT FIELD): 0500  Signalization

**Status**
- **Struct.** 660- 1-ABB  LOOP DETECTOR, INDUCTIVE  EA
  - A = Operation
  - 1 (Furnish & Install)
  - 2 (Furnish)
  - 3 (Install)
BB = Type
01 (Type 1, 1 Ch, R, S)
02 (Type 2, 1 Ch, R, S, TD)
03 (Type 3, 1 Ch, SS, S))
04 (Type 4, 1 Ch, SS, S, TD)
05 (Type 5, 2 Ch, SS, S)
06 (Type 6, 2 Ch, SS, S, TD)
07 (Type 7, 4 Ch, SS, S)
08 (Type 8, 4 Ch, SS, S, TD)
09 (Type 9, 2 Ch, SS, RM)
10 (Type 10, 2 Ch, SS, RM, TD)
11 (Type 11, 4 Ch, SS, RM)
12 (Type 12, 4 Ch, SS, RM, TD)

Legend
Ch = Channel
R = Relay Output
S = Shelf Mounted
TD = Time Delay
RM = Rack Mounted
SS = Solid State

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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660- 2-ABB  LOOP ASSEMBLY

Unit  AS  Accuracy  Assembly  PlanQuantity?  no

Notes

Details and Structure: Items 600 to 699
This pay item is for traffic signals and traffic control devices only. Includes cost of loop material, labor, etc. according to specifications.

### Related Items

<table>
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### Forms

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### Documentation

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### Standards

| Index No. | 17781 |

### Specifications

<table>
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<td>6, 7, 13</td>
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<td>Construction</td>
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### TRNS*PORT Category (DRAFT FIELD):

| 0500 | Signalization |

### Status

**Struct.  660- 2-ABB** LOOP ASSEMBLY AS

A = Operation  
1 (Furnish & Install)  
2 (Furnish)  
3 (Install)

BB = Type  
01 (Type A)  
02 (Type B)  
03 (Type C)  
04 (Type D)  
05 (Type E)  
06 (Type F)  
07 (Type G)  
08 (Type H)

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
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### 663- 72- A VEHICLE DETECTOR SUPPORT APPURTEINANCES

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### Notes

This pay item is for traffic signals and traffic control devices only.
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### 663-74-AB VEHICLE DETECTOR ASSEMBLIES

<table>
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<th>Each</th>
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**Notes**
This pay item is for traffic signals and traffic control devices only. Includes all work and materials necessary for a complete assembly, as detailed in the plans or specifications. For Relocate operation, ensure that plans/specs detail removal and re-installation instructions, as well as guidance if detector is damaged or broken.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

**Required** |
--- | ---
Forms | Design | SHTabQuant | COMP 700-050-03 |
Construction | Refer to Comp Book |

**Recommended**

**Forms** |
--- | ---
Design | SHTabQuant | COMP 700-050-03 |
Construction | Refer to Comp Book |

**Documentation** |
--- | ---
Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. |
Construction | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

**References** |
--- | ---
PPM Chapter | Design |
Other | Construction |
Standards | Design |
Specifications | Construction |

**TRNS*PORT Category (DRAFT FIELD):** 0500 Signalization
Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS**PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. 663-74-AB VEHICLE DETECTOR ASSEMBLIES EA

A = Operation
1 (Furnish & Install)
4 (Relocate)

B = Assembly Type
1 (Optical Type)
2 (Infrared)
3 (Road Tube)
4 (Optical-Emergency Pre-emption)
5 (Video)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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<th>Obsolete Date</th>
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665-AB- PEDESTRIAN DETECTOR

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Notes

Details

This pay item is for traffic signals and traffic control devices only. Includes pedestrian signs, as shown on index 17784.

For Relocate, ensure that plans/specs detail removal and re-installation instructions, as well as guidance if detector is damaged or broken.

Related Items

<table>
<thead>
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<th>Forms</th>
<th>Required</th>
<th>Recommended</th>
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<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-03</td>
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<td>Construction</td>
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Documentation

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<td>Prep &amp; Doc Manual Chapter(s)</td>
<td>7, 13</td>
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Details and Structure: Items 600 to 699
**TRNS*PORT Category (DRAFT FIELD):** 0500  Signalization

**Struct.** 665- AB-  PEDESTRIAN DETECTOR  EA

- A = Operation
  1 (Furnish & Install)
  2 (Furnish)
  3 (Install)
  4 (Relocate) B=0 see details above

- B = Assembly Type
  1 (Pole Or Controller Cabinet Mounted Detector Station)
  2 (Detector Station With Post)
  3 (Detector With Sign Only)

**Notes**

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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**668- AB- DETECTOR CABINET (SIGNALS)**

- Unit: EA
- Accuracy: Each
- Plan Quantity: no

**Notes**

- This pay item is for traffic signals and traffic control devices only.

**Related Items**

- **Forms**
  - Design: SHTabQuant
  - Construction: Refer to Comp Book

- **Documentation**
  - Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
  - Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- PPM Chapter
- Other
- Standards
- Specifications
- Prep & Doc Manual Chapter(s): 7, 13

---

Details and Structure: Items 600 to 699
**TRNS*PORT Category (DRAFT FIELD):** 0500 Signalization

**Status**

**Struct.** 668- AB- DETECTOR CABINET (SIGNALS) EA

A =
1 (Furnish & Install)
2 (Furnish)
3 (Install)

B = Cabinet Size (Minimum)
1 (Type I 13" X 10" X 6")
2 (Type II 27" X 15" X 12")
3 (Type III 32" X 20" X 14")
4 (Type IV 48" X 29" X 16")
5 (Type V 54" X 38" X 24")
6 (Type VI 74" X 38" X 24")

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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<th>Valid Date</th>
<th>Obsolete Date</th>
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**670- 4- A FLASHING BEACON CONTROLLER ASSEMBLY**

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**Notes**

This pay item is for traffic signals and traffic control devices only.

**Related Items**

**Forms**

- **Design**: SHTabQuant
- **Construction**: Refer to Comp Book

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- **PPM Chapter**
- **Other**
- **Standards**: Index No. 17841
- **Specifications**

Details and Structure: Items 600 to 699  
Page 50 of 73
Struct.  670- 4- A  FLASHING BEACON CONTROLLER ASSEMBLY  AS
A =
1 (Furnish & Install)
2 (Furnish)
3 (Install)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<tr>
<th>Item</th>
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Struct.  670- 5-ABC  TRAFFIC CONTROLLER ASSEMBLY  AS

Notes

Details

This pay item is for traffic signals and traffic control devices only.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

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Documentation

| Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. |
| Construction | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

References

| PPM Chapter | Other Standards Specifications |

*Selected Items may require Tech Spec and/or Plan Detail

Prep & Doc Manual Chapter(s)  7, 13

Status

Struct.  670- 5-ABC  TRAFFIC CONTROLLER ASSEMBLY  AS
A =
1 (Furnish & Install)
2 (Furnish)
3 (Install)  
4 (Modify)  
B = Type  
1 (NEMA)  
2 (170)  
3 (Special)*  
C = Special Features  
0 (None)  
1 (One Preemption Plan)  
2 (Two Preemption Plans)  

Notes  
* Special may require Tech Spec and/or Plan Detail  

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Item</th>
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### 671- 2- AB TRAFFIC CONTROLLER

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**Notes**

This pay item is for traffic signals and traffic control devices only.

**Related Items**

- **Required**: SHTabQuant
- **Recommended**: COMP 700-050-03

**Forms**

- **Design**: Refer to Comp Book
- **Construction**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Documentation**

- **Design**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter

Other

Standards

Specifications

**Prep & Doc Manual Chapter(s)**: 7, 13

**TRNS*PORT Category (DRAFT FIELD)**: 0500 Signalization

**Status**

**Struct.** 671- 2- AB TRAFFIC CONTROLLER EA

A =

1 (Furnish & Install)

---

Details and Structure: Items 600 to 699

Page 53 of 73
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<th>Obsolete Date</th>
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### Notes

This pay item is for traffic signals and traffic control devices only.

**Related Items**

- **Required**: SHTabQuant
- **Recommended**: COMP 700-050-03

**Forms**

- **Design**: Refer to Comp Book

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- PPM Chapter
- Other
- Standards
- Specifications

**Prep & Doc Manual Chapter(s)**: 7, 13

---

**TRNS*PORT Category (DRAFT FIELD)**: 0500 Signalization

**Status**

- **Struct.** 678- 1-ABB CONTROLLER ACCESSORIES EA

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

BB = Type Of Controller Accessory
01 (Type 3 Conflict Monitor)
02 (Type 6 Conflict Monitor)
03 (Type 12 Conflict Monitor)
04 (Load Switch)
05 (Type 1 Flasher)
06 (Type 3 Flasher)
## Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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### 680-ABB- SYSTEM CONTROL EQUIPMENT

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#### Notes

This pay item is for traffic signals and traffic control devices only. Detailed plan notes or specifications to be provided by designer.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

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<th>Related Items</th>
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#### References

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**Details and Structure:** Items 600 to 699
Standards
Specifications

Plan Detail and/or Tech Spec Required
Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. 680-ABB- SYSTEM CONTROL EQUIPMENT EA

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Modify)

BB = Item As Described
01 (CPU)
02 (Card Reader)
03 (Keyboard Printer)
04 (Line Printer)
05 (Disc Memory System)
06 (Communications Interface)
07 (Display Map Interface)
08 (Mag Type System)
09 (Keyboard CRT)
10 (Control Console)
11 (Roadside Master)
12 (Card Punch)
13 (Central Microcomputer Assembly)
14 (Central Modem Card)
15 (Autodial/Answer Ext Communications Modem)
16 (Fiber Optic, FSK Modem)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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681-ABB-  SYSTEM SOFTWARE

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**Notes**

This pay item is for traffic signals and traffic control devices only.

**Details**

- Required
- Recommended
- Design
  - SHTabQuantLS
  - COMP 700-050-05
- Construction
  - Refer to Comp Book

**Related Items**

- Structures
  - 681-ABB- SYSTEM SOFTWARE
  - LS/LS

**Documentation**

- Design
  - Use a quantity of 1. No form required. Locate or define the scope of work involved on the plans.
- Construction
  - Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- PPM Chapter
- Other
- Standards
- Specifications

**Plan Detail and/or Tech Spec Required**

**Prep & Doc Manual Chapter(s)**

- 7, 13

**TRNS*PORT Category (DRAFT FIELD):**

- 0500 Signalization

**Status**

**Struct.**

- 681-ABB- SYSTEM SOFTWARE
  - LS/LS

**Prep & Doc Manual Chapter(s):**

- 7, 13

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The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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682-ABB-  SYSTEM DISPLAY
This pay item is for traffic signals and traffic control devices only. Refer to ITS Items for Intelligent Transportation System applications.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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**Notes**

This pay item is for traffic signals and traffic control devices only. Tabulation summary required on all projects.

For Plan Detail/Tech Spec items: The Designer should ensure that the description,
materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

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**Standards**

**Specifications**

**Plan Detail and/or Tech Spec Required**

**Prep & Doc Manual Chapter(s):** 7, 13

---

**TRNS*PORT Category (DRAFT FIELD):** 0500 Signalization

**Status**

**Struct.** 683-ABB-

**SYSTEM COMMUNICATIONS**

**LS/LS**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Modify)

BB= Item As Described
01 (FDM)
02 (TDM)
03 (TDM Hardware)
04 (TDM Radio)
05 (TDM Coaxial)
06 (Central Site Radio)
07 (System Communications Modems)
08 (Voice Equipment)

**Notes**

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Item</th>
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**684- AB-**

**SYSTEM COMMUNICATIONS CARRIER**

**Unit** LF; M1

**Accuracy** Linear Foot; 10th of a Meter

**PlanQuantity?** no

**Notes**

**Details**

This pay item is for traffic signals and traffic control devices only.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of
payment are available in the contract documents to clearly define the work to be completed for payment under this item.

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| References             | PPM Chapter            |
|                        | Other                  |
| Standards              | Specifications         |

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Struct. 684- AB- SYSTEM COMMUNICATIONS CARRIER LF

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

B = Item As Described
1 (Multi-Pair Cable)
2 (Coaxial Cable)
3 (Lead Jacketed Coaxial Cable)
4 (Fiber Optic Cable)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Item</th>
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685-ABB- SYSTEM AUXILIARIES

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Notes

Details
This pay item is for traffic signals and traffic control devices only. NOT TO BE USED FOR ITS Projects. Refer to 780 items.
For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

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<th>Related Items</th>
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**References**

PPM Chapter

Other

**Standards**

**Specifications**

**Plan Detail and/or Tech Spec Required**

Prep & Doc Manual Chapter(s): 7, 13

**TRNS**\(^*\)PORT Category (DRAFT FIELD): 0500 Signalization

**Struct.** 685-ABB SYSTEM AUXILIARIES EA

A = Operation  
1 (Furnish & Install)  
2 (Furnish)  
3 (Install)  

BB = Item As Described  
01 (RF Modulator)  
02 (Multi-Plex Field Transceiver, Wire)  
03 (Multi-Plex Field Transceiver, Radio)  
04 (Data Accumulator)  
05 (Master Clock Unit)  
06 (Uninterruptible Power Source)  
07 (Test Equipment)  
08 (Equipment Cabinet, Type A)  
09 (Equipment Cabinet, Type B)  
10 (Equipment Cabinet, Type C)  
11 (Equipment Cabinet, Type D)  
12 (Bridge Continuity Sensor)  
13 (Pier Vibration Detection System-Sensors)  
14 (Pier Vibration Detection System-Monitor/Controller)  
15 (Weather Instrumentation)  
16 (Remote Site-Radio)  
17 (Citizen Band-Radio)  
18 (Telemetry Transmitter)  
19 (Telemetry Receiver)  
20 (Telemetry Transceiver)  
21 (Pre-Timed Controller Adapter)  
22 (2-Phase Or Full Actuated Adapter)  
23 (3/Phase Thru 8-Phase Full Actuated Adapter)  
24 (Universal Adapter)  
25 (Standby System Relay)  
26 (Standby System Timer)
27 (Telephone Connection Box)
28 (Interface Panel)
29 (Pneumatic Transport Tube Assembly)
30 (Weigh In Motion Scale Assembly)
31 (Static Scale Assembly)
32 (Public Address System Assembly)
33 (RF Demodulator)
34 (Dimensional Measurement Assembly)
36 (Low Band Vhf Radio)
37 (Line Amplifier)
38 (CCTV Camera Assembly)
39 (Fiber Optic Video Amplifier, Transmitter & Receiver)
40 (Fiber Optic, Modulator/Demodulator)
41 (Fiber Optic, Multiplexor/Demultiplexor)
42 (Video Central Control Equipment)
43 (Video Monitors)
44 (Video System Support Equipment)
55 (PLP FSK Card)
56 (FSK Modem, Interface Panel Wall)
57 (FSK Modem, Multiplexor Interface Panel)
58 (FSK Modem, Interface Panel Rack)
60 (Microwave Radar Detection Unit Assembly)

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Item</th>
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**686-ABB- CLOSED CIRCUIT TELEVISION EQUIPMENT**

**Unit** | **Accuracy** | **Each** | **Plan Quantity?** | **no**
---|---|---|---|---

**Notes**
This pay item is for traffic signals and traffic control devices only.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

<table>
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<tr>
<th>Forms</th>
<th>Required</th>
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**Documentation**

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**References**

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<tr>
<th>PPM Chapter</th>
<th>Other Standards</th>
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Details and Structure: Items 600 to 699
Specifications

Plan Detail and/or Tech Spec Required
Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500  Signalization

Status

Struct.  686-ABB-  CLOSED CIRCUIT TELEVISION EQUIPMENT  EA

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

BB = Item As Described
01 (Camera Assembly)
02 (Monitor)
03 (Recorder)
04 (Central Controls)
05 (Camera Support)
C 06 (Cable Plant)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<td>$1,500.00</td>
</tr>
</tbody>
</table>

690-10-  TRAFFIC SIGNAL HEAD ASSEMBLY, REMOVAL

Notes

This pay item is for traffic signals and traffic control devices only.

Related Items

<table>
<thead>
<tr>
<th>Forms</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-03</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
<td></td>
</tr>
</tbody>
</table>

Documentation

Design  Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
### Construction
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
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<tr>
<td>0690 10</td>
<td>SIGNAL HEAD TRAFFIC ASSEMBLY REMOVAL</td>
<td>EA</td>
<td></td>
<td>1/1/2007</td>
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</table>

### Related Items

**Details**
This pay item is for traffic signals and traffic control devices only.

**Required**

**Recommended**

### Forms

**Design**
SHTabQuant

**Construction**
Refer to Comp Book

### Documentation

**Design**
Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Construction**
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References

**PPM Chapter**

**Other**

**Standards**

**Specifications**

**Prep & Doc Manual Chapter(s)** 7, 13

---

### Status

**Struct.**

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0690 20</td>
<td>SIGNAL PEDESTRIAN ASSEMBLY REMOVAL</td>
<td>EA</td>
<td></td>
<td>1/1/2007</td>
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<td>$47.72</td>
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</tbody>
</table>
### 690-31- SIGNAL PEDESTAL - REMOVE

**Unit**: EA  
**Accuracy**: Each  
**Plan/Quantity?**: no

#### Notes
- This pay item is for traffic signals and traffic control devices only.

#### Details

#### Related Items
- **Required**
- **Recommended**

#### Forms
- **Design**: SHTabQuant  
- **Construction**: Refer to Comp Book

#### Documentation
- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

#### References
- **PPM Chapter**:  
- **Other**:  
- **Standards**:  
- **Specifications**

#### Prep & Doc Manual Chapter(s)
- 7, 13

#### TRNS*PORT Category (DRAFT FIELD):
- 0500 Signalization

#### Status
- **Struct.**: 690-31- SIGNAL PEDESTAL - REMOVE  
- **EA**

#### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<th>TSP/Detail</th>
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<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0690 31</td>
<td>SIGNAL PEDESTAL REMOVAL</td>
<td>EA</td>
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<td>1/1/2007</td>
<td></td>
<td>$181.17</td>
</tr>
</tbody>
</table>

### 690-32- A POLE REMOVAL - SHALLOW

**Unit**: EA  
**Accuracy**: Each  
**Plan/Quantity?**: no

#### Notes
- This pay item is for traffic signals and traffic control devices only.
- Separate items exist for "shallow" and "deep" pole removal.
- Shallow: includes complete removal of the above ground portion of the pole, attachments, and removal of the pole foundation, including buried attachments to a depth of 4 feet (1.2 m) below existing grade, measured per each.
- Deep: includes complete removal of the above ground portion of the pole and attachments, and the complete removal of the pole foundation, measured per foot (meter) from the existing grade to the deepest portion of the pole foundation actually removed. Estimate 20 ft (6 meters) per deep pole removal.
- NOTE ALL: Plans should identify locations for pole removal, and type of pole to be removed at each location. Not to be used on poles for highway lighting, unless they are jointly used to support traffic signal mast arms or span wire assemblies.

#### Details

#### Related Items
- **Required**
- **Recommended**

#### Forms
- **Design**: SHTabQuant  
- **Construction**: Refer to Comp Book

#### Documentation
- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form...
### 690-32- A POLE REMOVAL - SHALLOW

**Unit**: EA

**A** =
1. (Direct Burial)
2. (Bolt on Attachment)

### Notes

This pay item is for traffic signals and traffic control devices only. Separate items exist for "shallow" and "deep" pole removal.

Shallow: includes complete removal of the above ground portion of the pole, attachments, and removal of the pole foundation, including buried attachments to a depth of 4 feet (1.2 m) below existing grade, measured per each.

Deep: includes complete removal of the above ground portion of the pole and attachments, and the complete removal of the pole foundation, measured per foot (meter) from the existing grade to the deepest portion of the pole foundation actually removed. Estimate 20 ft (6 meters) per deep pole removal.

**NOTE ALL**: Plans should identify locations for pole removal, and type of pole to be removed at each location. Not to be used on poles for highway lighting, unless they are jointly used to support traffic signal mast arms or span wire assemblies.

### Related Items

**Forms**

- **Design**: SHTabQuant
- **Construction**: Refer to Comp Book

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter

Other

Standards

Prep & Doc Manual Chapter(s)

---

### 690-33- A POLE REMOVAL - DEEP

**Unit**: LF; M1

**Accuracy**: Linear Foot; 10th of a Meter

**Plan/Quantity?**: no

### Notes

This pay item is for traffic signals and traffic control devices only. Separate items exist for "shallow" and "deep" pole removal.

Shallow: includes complete removal of the above ground portion of the pole, attachments, and removal of the pole foundation, including buried attachments to a depth of 4 feet (1.2 m) below existing grade, measured per each.

Deep: includes complete removal of the above ground portion of the pole and attachments, and the complete removal of the pole foundation, measured per foot (meter) from the existing grade to the deepest portion of the pole foundation actually removed. Estimate 20 ft (6 meters) per deep pole removal.

**NOTE ALL**: Plans should identify locations for pole removal, and type of pole to be removed at each location. Not to be used on poles for highway lighting, unless they are jointly used to support traffic signal mast arms or span wire assemblies.

### Related Items

**Forms**

- **Design**: SHTabQuant
- **Construction**: COMP 700-050-03

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter

Other

Standards
Specifications

Prep & Doc Manual Chapter(s)

**TRNS** PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. 690-33- A POLE REMOVAL- DEEP LF

A =
1 (Direct Burial)
2 (Bolt on Attachment)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0690 33 1</td>
<td>POLE REMOVAL, DEEP DIRECT BURIAL</td>
<td>LF</td>
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<td>0690 33 2</td>
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<td></td>
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</tbody>
</table>

**690-50- A** CONTROLLER ASSEMBLY- REMOVE

Unit EA Accuracy Each PlanQuantity? no

Notes

Details
This pay item is for traffic signals and traffic control devices only.

Related Items

<table>
<thead>
<tr>
<th>Forms</th>
<th>Related</th>
<th>Required</th>
<th>Recommended</th>
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</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-03</td>
<td>Refer to Comp Book</td>
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<tr>
<td>Construction</td>
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Documentation

<table>
<thead>
<tr>
<th>Design</th>
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<tr>
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<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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References

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<th>Other</th>
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<tbody>
<tr>
<td>Standards Specifications</td>
<td></td>
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</table>

Prep & Doc Manual Chapter(s) 7, 13

**TRNS** PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. 690-50- A CONTROLLER ASSEMBLY- REMOVE EA

A =
‘Blank’ = Complete Assembly
1 (Cabinet Assembly, Less Foundation)
2 (Controller Unit)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
### Topic No. 600-000-002

#### Basis of Estimates

2009 Edition

October 6, 2008

<table>
<thead>
<tr>
<th>Item</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
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<td>0690 50 1</td>
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<td>EA</td>
<td>1/1/2007</td>
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<tr>
<td>0690 50 2</td>
<td>CONTROLLER ASSEMBLY, REMOVE, CONTROLLER UNIT</td>
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**690-60-**

**DETECTOR VEHICLE ASSEMBLY, REMOVE**

<table>
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<th>Unit</th>
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<tbody>
<tr>
<td>Accuracy</td>
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<tr>
<td>PlanQuantity?</td>
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</table>

**Notes**

This pay item is for traffic signals and traffic control devices only.

**Related Items**

Required

Forms: Design - SHTabQuant

Construction - Refer to Comp Book

**Documentation**

Design - Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction - Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) - 7, 13

**TRNS*PORT Category (DRAFT FIELD):**

0500 - Signalization

**Status**

Struct. 690-60- DETECTOR VEHICLE ASSEMBLY, REMOVE EA

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>0690 60</td>
<td>DETECTOR VEHICLE ASSEMBLY REMOVE</td>
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</table>

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**690-70-**

**DETECTOR PEDESTRIAN ASSEMBLY, REMOVE**

<table>
<thead>
<tr>
<th>Unit</th>
<th>EA</th>
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<tbody>
<tr>
<td>Accuracy</td>
<td>Each</td>
</tr>
<tr>
<td>PlanQuantity?</td>
<td>no</td>
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</tbody>
</table>

**Notes**

This pay item is for traffic signals and traffic control devices only.

**Related Items**

Required

Forms: Design - SHTabQuant

Construction - Refer to Comp Book

**Documentation**

Design - Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction - Record final quantity on the tabulation sheet (plans) or computation form

---

**Details and Structure:** Items 600 to 699
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<th>TSP/Detail</th>
<th>Valid Date</th>
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<tbody>
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<td>DETECTOR PEDESTRIAN ASSEMBLY REMOVE</td>
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</table>

690-80- SPAN WIRE ASSEMBLY REMOVE

Notes
Details
This pay item is for traffic signals and traffic control devices only.

Related Items
Required
Forms
Design
SHTabQuant
Construction
Refer to Comp Book

Documentation
Design
Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References
PPM Chapter
Other
Standards
Specifications
Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status
Struct. 690-80- SPAN WIRE ASSEMBLY REMOVE EA

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Item</th>
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<th>TSP/Detail</th>
<th>Valid Date</th>
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<tbody>
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<td>0690 80</td>
<td>SPAN WIRE ASSEMBLY, REMOVE</td>
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690-90- REMOVE CONDUIT & CABELING

Details and Structure: Items 600 to 699
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<th>TSP/Detail</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0690 90</td>
<td>CONDUIT &amp; CABLING REMOVE</td>
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<td>1/1/2007</td>
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<td>$558.71</td>
</tr>
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</table>

690-91-  SIGNAL INTERCONNECT CABLE, REMOVE

This pay item is for traffic signals and traffic control devices only.

Related Items

Required

Design: SHTabQuant

Construction: Refer to Comp Book

Recommended

Design: COMP 700-050-03

Construction: Refer to Comp Book

Notes

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Record final quantity on the tabulation sheet (plans) or computation form (comp book).
Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0690-91</td>
<td>SIGNAL INTERCONNECT CABLE, REMOVE LF</td>
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### 690-100-

**SIGNAL EQUIPMENT, MISCELLANEOUS REMOVE**

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<th>Unit</th>
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<th>PlanQuantity?</th>
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**Notes**

This pay item is for traffic signals and traffic control devices only. Detail items to be removed in plans, by intersection.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
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**Forms**

Design: Refer to Comp Book

Construction: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

**Status**

**Struct. 690-100-**

SIGNAL EQUIPMENT, MISCELLANEOUS REMOVE

PI

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<tr>
<th>Item</th>
<th>Description</th>
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<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0690100</td>
<td>SIGNAL EQUIPMENT MISCELLANOUS REMOVE</td>
<td>PI</td>
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<td>1/1/2007</td>
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</table>

**Notes**

This item should be used when requested by maintaining agency.

The internally illuminated street name sign is normally attached to the signals mast arm or span wire. This item should be shown on the signals plans and loaded in the signals category.

**Related Items**

Required

Recommended

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
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<tr>
<td>699-1-AB</td>
<td>INTERNALLY ILLUMINATED SIGN</td>
<td>EA</td>
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</table>

**Notes**

This item should be used when requested by maintaining agency.

The internally illuminated street name sign is normally attached to the signals mast arm or span wire. This item should be shown on the signals plans and loaded in the signals category.

**Related Items**

Required

Recommended

---

Details and Structure: Items 600 to 699
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0699 1</td>
<td>INTERNAL ILLUM SIGN, ST NAME</td>
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<td>1/1/2007</td>
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Chapter 17

Items 700 to 799
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### 700-20-AB SINGLE POST SIGN

<table>
<thead>
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<th>Notes</th>
<th>Effective July 2007 letting; replaces 700-40-A.</th>
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<tbody>
<tr>
<td>Details</td>
<td>Includes sign panel, post, any foundation or breakaway base as required by the Design Standards or plans. Per specifications, &quot;for the purpose of payment, a sign assembly consists of all the signs mounted on a single structure (one, two, or three posts, or overhead structure)...&quot;</td>
</tr>
</tbody>
</table>

Back-to-Back and/or multiple signs on a single post: Select the sign panel size (B= 1, 2, 3) based on the combined total sign area.

Standards limit single post sign area (wind resistance area from any one direction) to 20 SF.

B=9 Custom: For signs with a wind resistance area/maximum projected area from any one direction greater than 20 SF, multi-post signs are recommended. If project conditions require a single post sign greater than 20sf, a custom (non-standard) sign may be used. Plan details will be needed. Verify with Roadway Design Office prior to opening/using pay item on a project.

Refer to design standards for single/multi-post requirements.

**INSTALL**: Install includes the installation of existing panel(s) on a new sign post.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td>Design</td>
<td>SHTabQuant</td>
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<td></td>
<td>Construction</td>
<td>Refer to Comp Book</td>
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<td>Documentation</td>
<td>Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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**References**

- PPM Chapter
- Other
- Standards
- Specifications

**Prep & Doc Manual Chapter(s)**: 7, 13

**TRNS*PORT Category (DRAFT FIELD)**: 0300 Signing and Pavement Markings

**Status**

- **Struct.** 700-20-AB SINGLE POST SIGN AS

  A= Operation
  1 (Furnish & Install)
  2 (Furnish)
  3 (Install)
  4 (Relocate) B=0
  6 (Remove) B=0

  B= Sign Panel Size, Square feet
  1 (less than 12)
  2 (12-20)
  3 (20+ back-to-back)
  9 (Custom)*
Notes
See Details for selecting B= Sign Panel Size.
*B=9 (Custom) for non-standard designs. Plan details will be necessary. Verify with Roadway Design Office prior to opening/using on a project.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref</th>
<th>Price</th>
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700- 21- AB  MULTI-POST SIGN

Unit AS Accuracy Assembly PlanQuantity? no

Notes Effective July 2007 letting; replaces 700-41-AA.

Details Includes sign panel, post, any foundation or breakaway base as required by the Design Standards or plans. The number and size of post and the average post length must be shown in the plans. Per specifications, "for the purpose of payment, a sign assembly consists of all the signs mounted on a single structure (one, two, or three posts, or overhead structure)…"

INSTALL: Install includes the installation of existing panel(s) on new sign posts.

Related Items

Forms
- Required
  - Design SHTabQuant
  - Construction

Documentation
- Required
  - Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
  - Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References
- PPM Chapter
- Other
- Standards
- Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. 700- 21- AB MULTI-POST SIGN AS

A= Operation 1 (Furnish & Install)

Details and Structure: Items 700 to 799
2 (Furnish)
3 (Install)
4 (Relocate) B=0
6 (Remove) B=0

B = Sign Panel Size, square feet
1 (50 or less)
2 (51 to 100)
3 (101 to 150)
4 (151 to 200)
5 (201 to 250)
6 (251 to 300)
7 (over 300)
9 (Custom) non-standard sign

Notes
*B=9 (Custom) for non-standard designs. Verify with Roadway Design Office prior to opening.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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### 700- 22-ABC OVERHEAD TRUSS SPAN SIGN

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**Notes**
Effective January 2008 letting; replaces selected 700-42 to 700-46 items

**Details**
FOR ITS APPLICATIONS, USE 780 items

*******************************************************************************
Includes sign panels, overhead structure, foundations and other incidentals required for a complete assembly. Complete design and details of the structure and foundation must be shown in the plans. Includes all components listed in the Standards and all external conduit and conductors for the service.
All signs are to be lighted, unless otherwise noted in the plans. Payment is included in assembly.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

### Related Items

<table>
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<th>Required</th>
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</tr>
<tr>
<td>Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
</tr>
<tr>
<td>Construction</td>
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<tr>
<td>References</td>
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<td>Other</td>
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*Selected Items may require Tech Spec and/or Plan Detail

### Prep & Doc Manual Chapter(s)

7, 13

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**TRNS*PORT Category (DRAFT FIELD):** 0300 Signing and Pavement Markings

### Status

**Struct.** 700-22-ABC OVERHEAD TRUSS SPAN SIGN AS

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) BC=00
4 (Relocate) BC=00
6 (Remove) BC=00

B= Truss Span Length (feet)
1 (50 or less)
2 (51-100)
3 (101-150)
4 (151-200)
5 (Greater than 200)

C= Sign Panel Size (square feet)
1 (300 or less)
2 (301-500)
3 (501-700)
4 (Greater than 700)

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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0700 22500 OVERHEAD TRUSS SPAN SIGN, REPAIR AS 1/1/2008 $33,943.92

0700 22600 OVERHEAD TRUSS SPAN SIGN, REMOVE AS 1/1/2008 $4,495.14

700-23-ABC OVERHEAD TRUSS CANTILEVER SIGN

<table>
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<th>Unit</th>
<th>Accuracy</th>
<th>Assembly</th>
<th>PlanQuantity?</th>
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Notes: Effective January 2008 letting; replaces selected 700-42 to 700-46 items

Details: FOR ITS APPLICATIONS, USE 780 items

******************************************************************************************

Includes sign panels, overhead structure, foundations and other incidentals required for a complete assembly. Complete design and details of the structure and foundation must be shown in the plans. Includes all components listed in the Standards and all external conduit and conductors for the service.

All signs are to be lighted, unless otherwise noted in the plans. Payment is included in assembly.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

- Required
  - Design: SHTabQuant
  - Construction: Refer to Comp Book

- Recommended
  - Design: COMP 700-050-03
  - Construction: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
  - Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

- PPM Chapter
- Other
- Standards
- Specifications

*Selected Items may require Tech Spec and/or Plan Detail

Prep & Doc Manual Chapter(s): 7, 13

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Struct. 700-23-ABC OVERHEAD TRUSS CANTILEVER SIGN AS

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) BC=00
4 (Relocate) BC=00
6 (Remove) BC=00
B = Truss Span Length (feet)  
1 (30 or less)  
2 (31-40)  
3 (41-50)  
4 (over 50)  
C = Sign Panel Size (square feet)  
1 (100 or less)  
2 (101-200)  
3 (201-300)  
4 (Greater than 300)  

Notes  
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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# 700-38-AAB SIGN LIGHTED OVERHEAD TRUSS (MONOTUBE)

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**Notes**
- Standards valid through 12-31-06
- Includes sign panel, post, any foundation or breakaway base as required by the plans. Also includes sign luminaries, electrical enclosure and other incidentals required for a complete assembly. Conduit, conductors, pull boxes and service point equipment, if required to get power to the sign structure, are not covered by this item.

For projects let January 2008 and later: Ensure that complete drawings and specifications are available with the contract documents. Contact the maintaining agency prior to design; some agencies have requested standard sign structures be used, rather than monotubes.

**Related Items**
- **Forms**
  - Required: Design
    - SHTabQuant
  - Recommended: Construction
    - COMP 700-050-03

- **Documentation**
  - Design: Refer to Comp Book
  - Construction: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
    - Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**
- PPM Chapter
- Other
- Standards
- Specifications

Plan Detail and/or Tech Spec Required

**Prep & Doc Manual Chapter(s)**: 7, 13

**TRNS*PORT Category (DRAFT FIELD):**
- 0300 Signing and Pavement Markings

**Status**
- **Struct.** 700-38-AAB SIGN LIGHTED OVERHEAD TRUSS (MONOTUBE) AS

<table>
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<td>01</td>
<td>(20 Or Less)</td>
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<td>02</td>
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<td>03</td>
<td>(41 - 60)</td>
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Details and Structure: Items 700 to 799
B = Square Footage Of Sign Panel

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<td>10 (181 - 200)</td>
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<td>11 (201 - 220)</td>
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Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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700- 39- AB SIGN LIGHTED OVERHEAD CANTILEVER- MONOTUBE

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Details and Structure: Items 700 to 799
Standards valid through 12-31-06

Includes sign panel, post, any foundation or breakaway base as required by the plans. Also includes sign luminaries, electrical enclosure and other incidentals required for a complete assembly. Conduit, conductors, pull boxes and service point equipment, if required to get power to the sign structure, are not covered by this item.

For projects let January 2008 and later: Ensure that complete drawings and specifications are available with the contract documents. Contact the maintaining agency prior to design; some agencies have requested standard sign structures be used, rather than monotubes.

<table>
<thead>
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<th>Related Items</th>
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<td>Design</td>
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References

PPM Chapter

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Struct. 700-39-AB SIGN LIGHTED OVERHEAD CANTILEVER- MONOTUBE AS

A = Length Of Cantilever
  1 (20 Or Less)
  2 (21 - 30)
  3 (31 - 40)
  4 (41 - 50)
  5 (51 - 60)
  6 (61 - 70)
  7 (71 - 80)
  8 (81 - 90)

B = Square Footage Of Sign Panel
  1 (50 Or Less)
  2 (51 to 100)
  3 (101 to 150)
  4 (151 to 200)
  5 (201 - 250)
  6 (251 - 300)
  7 (Over 300)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
### 700-46-AB EXISTING SIGN

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**Notes**

Selected Items blocked; B=1 & 2 valid through 6-30-07; B=3 & 4 valid through 12-31-07. Replaced by 700-20 to 700-23 items.

**Details**

The REMOVE item includes the removal of the sign panels and the complete support assembly. The RELOCATE item includes the reinstallation of the complete assembly at the location shown in the plans. The INSTALL item includes the installation of the assembly, at the location shown in the plans. Includes the breakaway base and foundation, if required for installation of the new assembly. For a multi-post assembly, the number and size of the post and the average post length must be shown in the plans.

**Related Items**

- **Required Forms**
  - Design: SHTabQuant
  - Construction: Refer to Comp Book

- **Recommended Forms**
  - Design: COMP 700-050-03
  - Construction: Refer to Comp Book

**Documentation**

- **Design**
  - Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**
  - Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- PPM Chapter
- Other
- Standards
- Specifications

**Prep & Doc Manual Chapter(s)**

- 7, 13

**TRNS*PORT Category (DRAFT FIELD):**

- 0300 Signing and Pavement Markings

**Status**

- **Struct.** 700-46-AB EXISTING SIGN AS
- A = Operation
- 1 (Remove)

**Details and Structure:** Items 700 to 799
B = Sign Assembly Type
1 (Single Post) valid through 6/07
2 (Multi-Post) valid through 6/07
3 (Overhead Truss) valid through 12/07
4 (Overhead Cantilever) valid through 12/07
5 (Span Wire)
6 (Bridge Mounted)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Item</th>
<th>Description</th>
<th>Unit</th>
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700-48-AB SIGN PANEL

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Notes

Details

This item is for the sign panel only. For posts, structures, etc, refer to other Section 700 items.
The FURNISH AND INSTALL item includes the sign panel and materials required for installation. The INSTALL item includes the materials required for installation. The sign panel will be furnished. The OVERLAY item includes the sign panel and the materials required for installation. The RELOCATE item includes the removal of the sign panel and the reinstallation at the location noted in the plans. The REPLACE item includes the new sign panel, the removal of the existing panel and the installation of the new panel. The REMOVE item includes the removal of the existing sign panel.

Related Items

Forms

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Documentation

| Design      | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. |
| Construction| Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

References

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Details and Structure: Items 700 to 799
### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<tr>
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<td>EA</td>
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<td>$4,128.00</td>
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0700 48 53  SIGN PANELS, REPLACE, 201 - 300  EA  1/1/2007  $5,599.14
0700 48 54  SIGN PANELS, REPLACE, 301 - 400  EA  1/1/2007  $7,482.00
0700 48 55  SIGN PANELS, REPLACE, 401 - 500  EA  1/1/2007  $13,756.00
0700 48 56  SIGN PANELS, REPLACE, 501 - 600  EA  1/1/2007  $11,108.50
0700 48 57  SIGN PANELS, REPLACE, 601 OR >  EA  1/1/2007  $12,062.00
0700 48 58  SIGN PANELS, REPLACE, 15 OR LESS  EA  1/1/2007  $154.82
0700 48 59  SIGN PANELS, REPLACE, 16 - 100  EA  1/1/2007  $1,397.71
0700 48 60  SIGN PANELS, REMOVE  EA  1/1/2007  $55.86

**700- 70-**  SIGN, LIGHTED OVERHEAD- BRIDGE MOUNTED

<table>
<thead>
<tr>
<th>Unit</th>
<th>AS</th>
<th>Accuracy</th>
<th>Assembly</th>
<th>Plan</th>
<th>Quantity?</th>
</tr>
</thead>
</table>

**Notes**

Includes sign panels, overhead structure, sign luminaries, electrical enclosure and other incidentals required for a complete assembly. Conduit, conductors, pull boxes and service point equipment, if required to get power to the sign structure, are not covered by this item. Complete design and details of the structure and connections to the bridge must be shown in the plans. Includes all components listed in the Standards and all external conduit and conductors for the service.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>COMP 700-050-03</td>
</tr>
</tbody>
</table>

**Documentation**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>Refer to Comp Book</td>
</tr>
<tr>
<td>Construction</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
</tr>
<tr>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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**References**

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<thead>
<tr>
<th>PPM Chapter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other</td>
</tr>
<tr>
<td>Standards</td>
</tr>
<tr>
<td>Specifications</td>
</tr>
</tbody>
</table>

**Prep & Doc Manual Chapter(s)**

7, 13

**TRNS*PORT Category (DRAFT FIELD):**

0300  Signing and Pavement Markings

**Status**

**Struct.**

**700- 70-**  SIGN, LIGHTED OVERHEAD- BRIDGE MOUNTED  AS

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0700 70</td>
<td>SIGN LIGHTED OVERHEAD, BRIDGE MOUNTED</td>
<td>AS</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$12,647.32</td>
</tr>
</tbody>
</table>

**700- 82-**  OVERHEAD SIGN- SPAN WIRE MOUNTED

**Notes**

This item includes sign panels, poles, span wire assembly and other incidentals required for a complete assembly. The type and length of the poles and the size of the span wires

**Details**

---

**Details and Structure:** Items 700 to 799
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0700 82</td>
<td>OVERHEAD SIGN, SPAN WIRE MOUNTED</td>
<td>AS</td>
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<td>1/1/2007</td>
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</tr>
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</table>

**Unit**: AS  
**Accuracy**: Assembly  
**Plan Quantity?**: no

---

**Notes**

This item includes sign panels, overhead structure, and incidentals required for a complete assembly. Complete design and details of the structure and connections to the bridge must be shown in the plans.

---

**Related Items**

**Forms**

- **Required**: SHTabQuant  
- **Recommended**: COMP 700-050-03

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.  
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**PPM Chapter**

- Design  
- Construction

**Other**

**Standards**

**Specifications**

**Prep & Doc Manual Chapter(s)**

7, 13

---

**TRNS*PORT Category (DRAFT FIELD):** 0300 Signing and Pavement Markings

---

**Status**

**Struct.**: 700-82

**Related Items**

**Forms**

- **Design**: Refer to Comp Book

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**References**

**PPM Chapter**

- Design  
- Construction

**Other**

**Standards**

**Specifications**

**Prep & Doc Manual Chapter(s)**

---

**TRNS*PORT Category (DRAFT FIELD):** 0300 Signing and Pavement Markings

---

**Status**

**Related Items**

**Forms**

- **Required**: SHTabQuant  
- **Recommended**: COMP 700-050-03

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**Prep & Doc Manual Chapter(s)**

---

**TRNS*PORT Category (DRAFT FIELD):** 0300 Signing and Pavement Markings

---

Details and Structure: Items 700 to 799
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
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<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0700 83</td>
<td>OVERHEAD SIGN, BRIDGE MOUNTED</td>
<td>AS</td>
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<td>1/1/2007</td>
<td>$5,583.69</td>
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</table>

**700-89- AA ELECTRIC POWERED SIGN**

**Unit**: EA  
**Accuracy**: Each  
**Plan Quantity**: no

**Details**

NOTE: not to be used for ITS projects; refer to 780 items for ITS systems. Refer to 699 items for Internally Illuminated signs.

Includes the complete sign assembly, support and any foundation required. Conduit, conductors, pull boxes and service point equipment, if required to get power to the sign structure, are not covered by this item. Includes all components listed in the Standards and all external conduit and conductors for the service.

"Special" signs to be approved by Roadway Design. Plan Details and/or Tech Specs required to provide materials, construction, and payment information.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td>Construction</td>
</tr>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
</tbody>
</table>

**Documentation**

| Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.  
| Construction | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

**References**

PPM Chapter  
Other Standards  
Specifications

**Prep & Doc Manual Chapter(s)** 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0300 Signing and Pavement Markings

**Struct.** 700-89- AA ELECTRIC POWERED SIGN EA

AA =
2 (Blank-Out)
3 (Changeable Message - Fiber Optics)*
4 (Changeable Message - Light Bulb Matrix)*
5 (Changeable Message - Electromagnetic Disk Matrix)*
6 (Changeable Message - Drum - Type)*
7 (Changeable Message - Vane Matrix)*
8 (Lane Control - Vane Matrix)
9 (Changeable Message - Flap Type)*
10 (Changeable Message - Tricolor)*
11 (Special)**

**Notes**

* Consider ITS (780 items) for changeable message signs  
** Special requires Tech Spec and/or Plan details. Do not use "Special" for Radar Display Sign Units;
see item 700-94.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
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<td>1/1/2007</td>
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<td></td>
<td>$4,000.00</td>
</tr>
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<td>0700 89 3</td>
<td>ELECTRIC POWERED SIGN, CHANGEABLE MESSAGE, FIBER OPTIC</td>
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<td>12/31/2008</td>
<td></td>
<td>$80,000.00</td>
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### 700-90-AB SIGN, FLASHING BEACON

**Unit**: AS  
**Accuracy**:  
**Assembly**:  
**Plan Quantity**: no

**Notes**

Includes the complete sign, flashing beacon, flashing beacon controller, support and any foundation required. Conduit, conductors, pull boxes and service point equipment, if required to get power to the sign, are not covered by this item. Includes all components listed in the Standards and all external conduit and conductors for the service.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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</table>

**Forms**

<table>
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<th>Construction</th>
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</thead>
<tbody>
<tr>
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<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
</tbody>
</table>

**References**

PPM Chapter  
Other  
Standards: Index No. 17344, 17882, 17881  
Specifications  
Prep & Doc Manual Chapter(s): 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0300 Signing and Pavement Markings

**Status**

<table>
<thead>
<tr>
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<th>SIGN, FLASHING BEACON</th>
<th>AS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Operation</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>(Furnish &amp; Install)</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>(Relocate)</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>(Remove)</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>Sign Type</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>(Ground Mount)</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>(Overhead Mount)</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>(Bridge Mount)</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>(Span Wire)</td>
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</tbody>
</table>

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
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<td>1/1/2007</td>
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<td>$1,801.68</td>
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### 700-95- MOTORIST INFORMATION SIGN (BLUE)

<table>
<thead>
<tr>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inactive structure</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maintenance item (?) intended for blue information signs and/or logo program.</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Related Items</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required</td>
</tr>
<tr>
<td>Recommended</td>
</tr>
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<table>
<thead>
<tr>
<th>Forms</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
</tr>
<tr>
<td>SHTabQuant</td>
</tr>
<tr>
<td>COMP 700-050-03</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Construction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refer to Comp Book</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Documentation</th>
</tr>
</thead>
<tbody>
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<td>Design</td>
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<table>
<thead>
<tr>
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<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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<table>
<thead>
<tr>
<th>References</th>
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</thead>
<tbody>
<tr>
<td>PPM Chapter</td>
</tr>
</tbody>
</table>

| Other |
| Standards |
| Specifications |

| Prep & Doc Manual Chapter(s) |

**TRNS*PORT Category (DRAFT FIELD):** 0300 Signing and Pavement Markings

### Status

**Struct.** 700-95- MOTORIST INFORMATION SIGN (BLUE) EA

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*

---

### 701-1A-BCD AUDIBLE AND VIBRATORY PAVEMENT MARKINGS

<table>
<thead>
<tr>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effective with the September 2008 letting; replaces Developmental 906-701 items</td>
</tr>
</tbody>
</table>

Details and Structure: Items 700 to 799
Refer to May 9, 2008 Estimates Bulletin 08-07/Roadway Bulletin 08-05.

For use on "all rural construction projects, excluding limited access facilities". More specifically, "OUTSIDE EDGE line for all 2-lane and multi-lane undivided rural projects" (From FDOT Executive Committee Policy, approved March 19, 2008)

CENTERLINE: Audible and Vibratory pavement markings should be used on centerline of two lane rural roadways ONLY when there is a history of centerline cross over crashes.

Other applications: Audible and Vibratory markings shall also be considered on flush shoulder roadways within Urban 2 and Urban 3 boundaries; noise is the primary consideration in these areas.

GROSS MILE & NET MILE ITEMS: Intended for 6" stripe. The gross mile quantity shall be used to pay for all 3-9 or 10-30 skip traffic stripes, as indicated in the plans. Measurement will be taken as the distance from the beginning of the first painted stripe to the end of the last painted stripe, and shall include the unpainted intervals, subject to 9-1.3. It will not include any lengths of unpainted intervals which are greater than 30 ft, per the specifications.

The net mile quantity shall be used to pay for all 6" solid stripe, except those identified above for payment as linear foot items.

Accuracy: GM and NM items are measured to 1/1000 of a mile.

### Related Items

<table>
<thead>
<tr>
<th>Forms</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Construction</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Documentation</th>
<th>Required</th>
<th>Recommended</th>
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</thead>
<tbody>
<tr>
<td>Design</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Construction</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>References</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>PPM Chapter</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other</td>
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<tr>
<td>Standards</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specifications</td>
<td></td>
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</tr>
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</table>

### Prep & Doc Manual Chapter(s)

```
TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings
```

### Struct.

**Audible and Vibratory Pavement Markings**

A= Class
1 (Standard)

B= Color
1 (White)
2 (Yellow)

C= Type of Marking
1 (Solid) NM
2 (Skip) GM

D= Width
1 (6")

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
### Topic No. 600-000-002
Basis of Estimates

#### Basis of Estimates

**2009 Edition**

**October 6, 2008**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
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<th>Obsolete Date</th>
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<th>Price</th>
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</thead>
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<td>AUDIBLE &amp; VIBRATORY PAVEMENT MARKING, STANDARD, WHITE, SOLID, 6&quot;</td>
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<td>9/1/2008</td>
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</tr>
<tr>
<td>0701 11121</td>
<td>AUDIBLE &amp; VIBRATORY PAVEMENT MARKING, STANDARD, WHITE, SKIP, 6&quot;</td>
<td>GM</td>
<td>9/1/2008</td>
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<td></td>
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#### 702-???
WET WEATHER MARKINGS ?? INVERTED RIB PROFILE MARKINGS

**Unit**: Mixed
**Accuracy**: Refer to item structure and details

#### Notes
Future Effective Date: See 906-702 items.

#### Details

**Related Items**
- **Required Forms**
  - Design: SHTabQuant
  - Construction: Refer to Comp Book

**Documentation**
- **Design**
- **Construction**
  Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**
- **PPM Chapter**
- **Other Standards**
- **Specifications**
- **Prep & Doc Manual Chapter(s)**

#### TRNS*PORT Category (DRAFT FIELD):
0300 Signing and Pavement Markings

#### Status
**Struct.**
- 702-???
- WET WEATHER MARKINGS ?? INVERTED RIB PROFILE MARKINGS

**Mixed**

#### Notes
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

#### 705-10- A
OBJECT MARKER

**Unit**: EA
**Accuracy**: Each

**Notes**
New items to be effective January 2008.

**Details**
Object Markers are to be used to mark obstructions within or adjacent to the roadway, as indicated in the Design Standards or on the plans. Additional details are available in the MUTCD, Chapter 3C.

Refer to Delineators for marking the roadway alignment.
### Related Items

**Required**
- Design: SHTabQuant

**Recommended**
- Design: COMP 700-050-03

### Forms

**Design**
- Refer to Comp Book

**Construction**
- Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Construction**
- Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References

**PPM Chapter**
- Design
- Construction

**Other**
- Standards
- Index No. 17349 (Object Markers), 17345 and 17346 (Delineators), 17349 (Object Markers) 17359 (Object Markers and Delineators)

**Specifications**
- Prep & Doc Manual Chapter(s): 7, 13

### Status

**Struct.** 705-10- A **OBJECT MARKER** **EA**

- A= Type*
  1 (Type 1)
  2 (Type 2)
  3 (Type 3)
  4 (Type 4)

**Notes**
- *Note: The Type is defined in the MUTCD, Chapter 3C.

---

**TRNS*PORT Category (DRAFT FIELD):** 0300 Signing and Pavement Markings

---

**The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.**

<table>
<thead>
<tr>
<th>Item</th>
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### Related Items

**Forms**

**Required**
- Design: SHTabQuant

**Recommended**
- Design: COMP 700-050-03

**Construction**
- Refer to Comp Book

### Details

Delineators are to be used along the side of the roadway to indicate the alignment of the roadway, as indicated in the Design Standards or on the plans. Additional details are available in the Plans Preparation Manual (PPM) Vol 1, Chapter 7, and the MUTCD, Chapter 3D.

Refer to Object Markers to mark obstructions.

**Notes**

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**705-11- A** **DELINEATOR**

**Unit** EA  **Accuracy** Each  **PlanQuantity?** no

**Notes**

**Details**
- Delineators are to be used along the side of the roadway to indicate the alignment of the roadway, as indicated in the Design Standards or on the plans. Additional details are available in the Plans Preparation Manual (PPM) Vol 1, Chapter 7, and the MUTCD, Chapter 3D.

Refer to Object Markers to mark obstructions.

---

**Related Items**

**Forms**

**Required**
- Design: SHTabQuant

**Recommended**
- Design: COMP 700-050-03

**Construction**
- Refer to Comp Book

**Documentation**

**Design**
- Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Construction**
- Record final quantity on the tabulation sheet (plans) or computation form (comp book).
### Standards

Index No. 17349 (Object Markers), 17345 and 17346 (Delineators), 17349 (Object Markers) 17359 (Object Markers and Delineators)

### Specifications

#### Structural

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**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

- **Unit**: EA
- **Accuracy**: Each
- **Plan Quantity?**: no

**Details**

Refer to 710-90 for final surface payment. Use Type B, unless otherwise shown in the plans. Use Pavement markers to supplement lane lines and gore markings, as shown on design standards.

**Related Items**

**Required**

- Design: SHTabQuant

**Recommended**

- Construction: COMP 700-050-03

**Forms**

- Design: Refer to Comp Book

**Documentation**

- Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

- Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- PPM Chapter
- Other
- Standards: Index No. 17345, 17352

**Prep & Doc Manual Chapter(s)**

- 7, 13

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**TRNS*PORT Category (DRAFT FIELD):** 0300 Signing and Pavement Markings
### RETRO-REFLECTIVE PAVEMENT MARKER

**EA**

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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**Details and Structure: Items 700 to 799**

---

**709- 1A-BCD** TRAFFIC STRIPE- TWO REACTIVE COMPONENTS

**Unit** EA, LF, GM, NM; GK, NK

**Accuracy** Each; Linear Foot; 1/1000 mile

**PlanQuantity?**

---

**Notes** Effective January 2007 letting. Replaces all other 709 items.

**Details**

Consists of "Two Reactive Component Traffic Stripe and Markings" used in areas representing final and work zone pavement markings.

Refer to the Specification for the complete Method of Measurement.

Broken (skip) stripes shall consist of a succession of solid stripes.

Measurement and Payment for Pavement Markings:

LINEAR FOOT ITEMS: Intended for solid stripes 8" wide and greater. The linear foot quantity shall also be used to pay for 2-4 "guide line" and 6-10 "gap extension through cross-over area" (all skip lines, except 3-9 or 10-30 skip traffic stripe sections), as indicated in the plans. Measurement will be taken as the distance from the beginning of the first painted stripe to the end of the last painted stripe, and it shall NOT include the unpainted intervals.

GROSS MILE & NET MILE ITEMS: Intended for 6" stripe. The gross mile quantity shall be used to pay for all 3-9 or 10-30 skip traffic stripes, as indicated in the plans. Measurement will be taken as the distance from the beginning of the first painted stripe to the end of the last painted stripe, and shall include the unpainted intervals, subject to 9-1.3. It will not include any lengths of unpainted intervals which are greater than 30 ft, per the specifications.

The net mile quantity shall be used to pay for all 6" solid stripe, except those identified above for payment as linear foot items.

REMOVAL ITEM (A=7): The cost for removing any conflicting pavement markings is to be included in the cost of MOT Lump Sum, per Specification 710-4 and 102-5.8. Pay item 710-17 is only to be used for Maintenance projects to remove non-conflicting pavement markings (i.e. removal of paint prior to applying a two-component reactive material; or 711-17 for removal of thermoplastic prior to applying more thermo, because the maximum thickness will be exceeded if existing thermo is not removed).

YIELD LINE: Per the MUTCD, a yield line is a series of solid white isosceles triangles, used at intersection approaches controlled by a yield sign. It is measured per linear foot, with a length approximately equal to the lane width(s).

CONTRASTING ALTERNATING SKIP: Use one application of white skip thermoplastic and one application of black skip paint. Payment will be made for the length of white + length of black stripe applied.

MESSAGES: Each word is paid as one message. For example, "SUN PASS ONLY" will be paid as 3 messages. Other example messages include "YIELD", "MERGE", "LEFT", "TURN". Additional messages shown on index 17346.
Note: Accuracy for LF items is per Linear Foot; Mile items to 1/1000th of a mile; and Square Foot items to the nearest square foot.

TRNS*PORT quantities: For Category 0200- MOT, continue to use 710 and 102-78 items. For Category 0300- Signing and Pavement Markings, include 710-90 pay item for final surface; do not include other 710 or 706-3 items.

### Required

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### Related Items

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### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
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710-1A-BCD  PAINTED PAVEMENT MARKINGS

**Unit**  Mixed  **Accuracy**  Refer to item structure and details

**Notes**  Refer to 2008 Estimates Bulletins for changes to units of measure and removal of stripe items.

**Details**  Consists of paint used in areas representing final and work zone pavement markings. Refer to the Specification for the complete Method of Measurement. Broken (skip) stripes shall consist of a succession of solid stripes.

***************

Measurement and Payment for Pavement Markings:

LINEAR FOOT ITEMS: Intended for solid stripes 8" wide and greater. The linear foot quantity shall also be used to pay for 2-4 "guide line" and 6-10 "gap extension through cross-over area" (all skip lines, except 3-9 or 10-30 skip traffic stripe sections), as indicated in the plans. Measurement will be taken as the distance from the beginning of the first painted stripe to the end of the last painted stripe, and it shall NOT include the unpainted intervals.
GROSS MILE & NET MILE ITEMS: Intended for 6" stripe. The gross mile quantity shall be used to pay for all 3-9 or 10-30 skip traffic stripes, as indicated in the plans. Measurement will be taken as the distance from the beginning of the first painted stripe to the end of the last painted stripe, and shall include the unpainted intervals, subject to 9-1.3. It will not include any lengths of unpainted intervals which are greater than 30 ft, per the specifications.

The net mile quantity shall be used to pay for all 6" solid stripe, except those identified above for payment as linear foot items.

REMOVAL ITEM (A=7): The cost for removing any conflicting pavement markings is to be included in the cost of MOT Lump Sum, per Specification 710-4 and 102-5.8. Pay item 710-17 is only to be used for Maintenance projects to remove non-conflicting pavement markings (i.e. removal of paint prior to applying a two-component reactive material; or 711-17- for removal of thermoplastic prior to applying more thermo, because the maximum thickness will be exceeded if existing thermo is not removed).

YIELD LINE: Per the MUTCD, a yield line is a series of solid white isosceles triangles, used at intersection approaches controlled by a yield sign. It is measured per linear foot, with a length approximately equal to the lane width(s).

CONTRASTING ALTERNATING SKIP: Use one application of white skip thermoplastic and one application of black skip paint. Payment will be made for the length of white + length of black stripe applied.

MESSAGES: Each word is paid as one message. For example, "SUN PASS ONLY" will be paid as 3 messages. Other example messages include "YIELD", "MERGE", "LEFT", "TURN". Additional messages shown on index 17346.

Note: Accuracy for LF items is per Linear Foot; Mile items to 1/1000th of a mile; and Square Foot items to the nearest square foot.

TRNS*PORT quantities: For Category 0200- MOT, continue to use 710 and 102-78 items. For Category 0300- Signing and Pavement Markings , include 710-90 pay item for final surface; do not include other 710 or 706-3 items.

<table>
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<td>Construction</td>
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Record final quantity on the tabulation sheet (plans) or computation form (comp book).

PPM Chapter
Other
Standards
Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Struct. 710-1A-BCD PAINTED PAVEMENT MARKINGS Mixed

A= Class
1 (Standard)
7 (Remove) SF, BCD=blank
B= Color
### Notes

*See details above

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The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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0710 11331 PAINTED PAVEMENT MARKINGS, STANDARD, BLACK, SKIP, 6” GM 1/1/2007 $705.50

0710 11341 PAINTED PAVEMENT MARKINGS, STANDARD, BLACK, SKIP, 6” LF 1/1/2007 $0.50

0710 11342 PAINTED PAVEMENT MARKINGS, STANDARD, BLACK, SKIP, 8” LF 1/1/2007 $1.45

0710 11421 PAINTED PAVEMENT MARKINGS, STANDARD, BLUE, SOLID, 6” LF 1/1/2007 $1.03

0710 11460 PAINTED PAVEMENT MARKINGS, STANDARD, BLUE, MESSAGE EA 1/1/2007 $100.00

0710 17 PAINTED PAVEMENT MARKINGS, REMOVE SF 1/1/2007 12/31/2008 $1.45

710-90- PAINTED PAVEMENT MARKINGS-FINAL SURFACE

Unit LS/LS Accuracy Lump Sum PlanQuantity? yes

Notes

Details
Includes payment for final surface pavement markings (2 applications), including RPMs (1 application).
DOES NOT include pavement markings used for Maintenance of Traffic. Must continue to use other 710 items for MOT applications.

TRNS*PORT quantities: For Category 0200- MOT, continue to use 710 and 102-78 items. For Category 0300- Signing and Pavement Markings, include 710-90 pay item for final surface; do not include other 710 or 706-3 items.

Related Items
Required Recommended
Design SHTabQuantLS COMP 700-050-05
Construction 700-050-52

Documentation
Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References
PPM Chapter
Other
Standards
Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status
Struct. 710-90- PAINTED PAVEMENT MARKINGS-FINAL SURFACE LS/LS

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Details and Structure: Items 700 to 799
0710 90  PAINTED PAVEMENT MARKINGS, FINAL SURFACE  LS  1/1/2007  $50,332.24

711- 1A-BCD  THERMOPLASTIC

Unit: Mixed  Accuracy: Refer to item structure and details  PlanQuantity?: no

Notes: Refer to 2008 Estimates Bulletins for changes to units of measure and removal of stripe items.

Details: Consists of paint used in areas representing final and work zone pavement markings. Refer to the Specification for the complete Method of Measurement. Broken (skip) stripes shall consist of a succession of solid stripes.

Measurement and Payment for Pavement Markings:

LINEAR FOOT ITEMS: Intended for solid stripes 8" wide and greater. The linear foot quantity shall also be used to pay for 2-4 "guide line" and 6-10 "gap extension through cross-over area" (all skip lines, except 3-9 or 10-30 skip traffic stripe sections), as indicated in the plans. Measurement will be taken as the distance from the beginning of the first painted stripe to the end of the last painted stripe, and it shall NOT include the unpainted intervals.

GROSS MILE & NET MILE ITEMS: Intended for 6" stripe. The gross mile quantity shall be used to pay for all 3-9 or 10-30 skip traffic stripes, as indicated in the plans. Measurement will be taken as the distance from the beginning of the first painted stripe to the end of the last painted stripe, and shall include the unpainted intervals, subject to 9-1.3. It will not include any lengths of unpainted intervals which are greater than 30 ft, per the specifications. The net mile quantity shall be used to pay for all 6" solid stripe, except those identified above for payment as linear foot items.

REMOVAL ITEM (A=7): The cost for removing any conflicting pavement markings is to be included in the cost of MOT Lump Sum, per Specification 710-4 and 102-5.8. Pay item 710-17 is only to be used for Maintenance projects to remove non-conflicting pavement markings (i.e. removal of paint prior to applying a two-component reactive material; or 711-17- for removal of thermo prior to applying more thermo, because the maximum thickness will be exceeded if existing thermo is not removed).

SUN PASS LANES: The 3-9 skip, 12" wide, per GM is used to designate a sun pass lane or similar approach to a toll plaza.

YIELD LINE: Per the MUTCD, a yield line is a series of solid white isosceles triangles, used at intersection approaches controlled by a yield sign. It is measured per linear foot, with a length approximately equal to the lane width(s).

CONTRASTING ALTERNATING SKIP: Use one application of white skip thermoplastic and one application of black skip paint. Payment will be made for the length of white + length of black stripe applied.

MESSAGES: Each word is paid as one message. For example, "SUN PASS ONLY" will be paid as 3 messages. Other example messages include "YIELD", "MERGE", "LEFT", "TURN". Additional messages shown on index 17346.

Note: Accuracy for LF items is per Linear Foot; Mile items to 1/1000th of a mile; and Square Foot items to the nearest square foot.
TRNS*PORT quantities: For Category 0200- MOT, continue to use 710 and 102-78 items. For Category 0300- Signing and Pavement Markings, include 710-90 pay item for final surface; do not include other 710 or 706-3 items.

**Related Items**

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**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**

**TRNS*PORT Category (DRAFT FIELD):** 0300 Signing and Pavement Markings

**Status**

- **Struct. 711- 1A-BCD**: THERMOPLASTIC Mixed
  
  A=Class
  1 (Standard)
  2 (Refurbishment)
  3 (Hot Spray)
  4 (Preformed)
  7 (Remove) SF Note: When A=7, BCD=blank
  
  B=Color
  1 (White)
  2 (Yellow)*
  3 (Black) **
  4 (Blue)***
  *when B=2, C=1, 2, 3, 4 or 5
  **B=3 not valid as of 12-15-05; use 710 items.
  ***when B=4, C=2, 6
  
  C= Type of Marking
  1 (Solid) NM
  2 (Solid) LF
  3 (Skip) GM*
  4 (Skip) LF*
  5 (Dotted/Guideline) LF**
  6 (Message) EA *** Includes Yield Messages
  7 (Arrows) EA ***
  8 (Yield Line) LF ***
  *when C=3, D=1, 2, or 3
  *when C=4, D=1 or 2
  **when C=5, D=1
  ***when C=6, 7, or 8, D=0
  
  D= Width
  1 (6")
  2 (8")
  3 (12")
  4 (18")
Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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**713-1AA-BCD PAVEMENT MARKING- PREFORMED TAPE**

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<td>Refer to 2008 Estimates Bulletins for changes to units of measure and removal of stripe items.</td>
<td>Preformed Tape to be considered for use on concrete surfaces.</td>
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</table>

High performance tapes are required for longitudinal markings; standard tapes are limited to transverse lines, arrows, and messages.

Refer to the Specification for the complete Method of Measurement.

Broken (skip) stripes shall consist of a succession of solid stripes.

Measurement and Payment for Pavement Markings:

**LINEAR FOOT ITEMS**: Intended for solid stripes 8" wide and greater. The linear foot quantity shall also be used to pay for 2-4 "guide line" and 6-10 "gap extension through cross-over area" (all skip lines, except 3-9 or 10-30 skip traffic stripe sections), as indicated in the plans. Measurement will be taken as the distance from the beginning of the first painted stripe to the end of the last painted stripe, and it shall NOT include the unpainted intervals.

**GROSS MILE & NET MILE ITEMS**: Intended for 6" stripe. The gross mile quantity shall be used to pay for all 3-9 or 10-30 skip traffic stripes, as indicated in the plans. Measurement will be taken as the distance from the beginning of the first painted stripe to the end of the
last painted stripe, and shall include the unpainted intervals, subject to 9-1.3. It will not
include any lengths of unpainted intervals which are greater than 30 ft, per the
specifications.
The net mile quantity shall be used to pay for all 6" solid stripe, except those identified
above for payment as linear foot items.

REMOVAL ITEM (A=7): The cost for removing any conflicting pavement markings is to be
included in the cost of MOT Lump Sum, per Specification 710-4 and 102-5.8. Pay item 710-
17 is only to be used for Maintenance projects to remove non-conflicting pavement
markings (i.e. removal of paint prior to applying a two-component reactive material; or 711-
17- for removal of thermoplastic prior to applying more thermo, because the maximum
thickness will be exceeded if existing thermo is not removed).

YIELD LINE: Per the MUTCD, a yield line is a series of solid white isosceles triangles, used
at intersection approaches controlled by a yield sign. It is measured per linear foot, with a
length approximately equal to the lane width(s).

CONTRASTING ALTERNATING SKIP: Use one application of white skip thermoplastic
and one application of black skip paint. Payment will be made for the length of white +
length of black stripe applied.

MESSAGES: Each word is paid as one message. For example, "SUN PASS ONLY" will be
paid as 3 messages. Other example messages include "YIELD", "MERGE", "LEFT",
"TURN". Additional messages shown on index 17346.

Note: Accuracy for LF items is per Linear Foot; Mile items to 1/1000th of a mile; and
Square Foot items to the nearest square foot.

TRNS*PORT quantities: For Category 0200- MOT, continue to use 710 and 102-78 items.
For Category 0300- Signing and Pavement Markings, include 710-90 pay item for final
surface; do not include other 710 or 706-3 items.

### Related Items

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**TRNS*PORT Category (DRAFT FIELD):** 0300 Signing and Pavement Markings

### Status

**Struct.** 713-1AA-BCD PAVEMENT MARKING- PREFORMED TAPE Mixed

AA= Class*
01 (Standard)
02 (High Performance)
07 (Removal) SF, BCD=blank
B= Color

---

Details and Structure: Items 700 to 799
1 (White)
2 (Yellow)
3 (Black)
4 (Blue)
5 (White w/Black Contrast)**

C= Type of Marking
1 (Solid) NM
2 (Solid) LF
3 (Skip) GM
4 (Skip) LF
5 (Dotted / Guideline) LF
6 (Messages) EA, D=0
7 (Arrows) EA, D=0

D= Width
0 when C=6, 7
1 (6")
2 (8")
3 (9")**
4 (12")
5 (18")
6 (24")

**Note (effective 1-1-2007) : 9" black/white contrast will be paid per linear foot.
Note (through 12-31-2008): Mile (kilometer) units only valid with 6" or 8" stripes
*See details for guidance on class selection

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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### 714- 1-ABC  MOTORIST AID CALL BOX

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<th>Assembly</th>
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**Notes**
For A=3-7, BC=00, effective 7/08 letting

**Details**
New installations - estimate quantity on basis of 2 per mile (1 per 804 meters) in project length for rural areas.

NOTE: Per Index, concrete pad is paid under Class II concrete, Misc.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

<table>
<thead>
<tr>
<th>Forms</th>
<th>Required Design</th>
<th>SHTabQuant</th>
<th>Recommended COMP 700-050-03</th>
</tr>
</thead>
<tbody>
<tr>
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<table>
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<th>Design</th>
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<tbody>
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**References**

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**Specifications**

**Plan Detail and/or Tech Spec Required**

<table>
<thead>
<tr>
<th>Prep &amp; Doc Manual Chapter(s)</th>
<th>7, 13</th>
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**TRNS**PORT Category (DRAFT FIELD): 0200 Roadway

**Status**
Inactive Structure

**Struct.**
714- 1-ABC  MOTORIST AID CALL BOX  AS

<table>
<thead>
<tr>
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<tbody>
<tr>
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<td>(Furnish &amp; Install)</td>
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<tr>
<td>2</td>
<td>(Furnish)</td>
</tr>
<tr>
<td>3</td>
<td>(Install) BC=00</td>
</tr>
<tr>
<td>4</td>
<td>(Modify Existing Roadside Terminal) BC=00</td>
</tr>
<tr>
<td>5</td>
<td>(Relocate Existing Roadside Terminal) BC=00</td>
</tr>
<tr>
<td>6</td>
<td>(Remove) BC=00</td>
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<td>7</td>
<td>(Refurnish) BC=00</td>
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<tr>
<th>B</th>
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<tr>
<td>1</td>
<td>(Roadside Call Terminal)</td>
</tr>
<tr>
<td>2</td>
<td>(Call Box Assembly)</td>
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<tr>
<td>3</td>
<td>(Central Terminal)</td>
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<table>
<thead>
<tr>
<th>C</th>
<th>= Form</th>
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<tbody>
<tr>
<td>1</td>
<td>(Coded Message, Radio)</td>
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### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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<th>Valid Date</th>
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### 714- 2- A MOTORIST AID CONSOLE

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<th>Accuracy</th>
<th>Each</th>
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### Notes

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

### Related Items

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<td>SHTabQuant</td>
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<tr>
<td>Construction</td>
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### Documentation

Design
- Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction
- Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References

PPM Chapter
- Other
- Standards
- Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status:** Inactive Structure

**Struct.** 714- 2- A MOTORIST AID CONSOLE EA

A = Form
- 1 (Coded Message, Radio)
- 2 (Coded Message, Wire)
- 3 (Voice, Radio)
- 4 (Voice, Wire)
Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### 714-3-AB MOTORIST AID COMPONENTS (F&I) CONSOLE

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<tr>
<th>Unit</th>
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<th>Each</th>
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**Notes**

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

**Required**

- Design: SHTabQuant
- Construction: Refer to Comp Book

**Recommended**

- Design: COMP 700-050-03
- Construction: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- PPM Chapter
- Other
- Standards
- Specifications

**Plan Detail and/or Tech Spec Required**

**Prep & Doc Manual Chapter(s)**: 7, 13

**TRNS*PORT Category (DRAFT FIELD):**

- 0200 Roadway

**Status**: Inactive Structure

**Struct.**

- 714-3-AB MOTORIST AID COMPONENTS (F&I) CONSOLE EA

**A** = Operation

1 (Furnish & Install)
2 (Furnish)
3 (Install) Not Valid W/ B= 2, 3, & 4.

**B** = Form

1 (Antenna)
2 (290' Guyed Tower)
3 (190' Guyed Tower)
4 (190' Self Support Tower)
5 (Console)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### 714-4ABB MOTORIST AID MICROWAVE COMPONENT

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**Notes**

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed.
for payment under this item.

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Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status Inactive Structure

Struct. 714-4-ABB MOTORIST AID MICROWAVE COMPONENT EA

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)

BB =
01 (10,000 F9 Microwave 1.9 GHz)
02 (1,600 F9 Microwave 2.9 GHz)
03 (800 F9 Microwave 2.1 GHz)
04 (10,000 F9 Microwave 6.5 GHz)
05 (Master Alarm System)
06 (District Alarm System)
07 (Alarm Monitor)
08 (6’ Grid Microwave Antenna)
09 (8’ Grid Microwave Antenna)
10 (10’ Grid Microwave Antenna)
11 (10’ Solid Microwave Antenna)
12 (72 MHz Antenna)
13 (150-170 MHz Antenna)
14 (40-50 MHz Antenna)
15 (450-460 MHz Antenna)
16 (CB Antenna)
17 (1/2” Foam Connectors)
18 (7/8” Air Connectors)
19 (Dehydrator And Manifold)
20 (1 5/8” Air Connectors)
21 (72 MHz Base Station)
22 (Waveguide Connectors)
23 (DTMF Call Unit)
24 (DTMF Card / Phone)
25 (Power Divider Harness)
26 (Transmitter Combiner)
27 (Receiver Multicoupler)
28 (6 GHz Digital Radio)
29 (10 GHz Digital Radio)
30 (8' Solid Microwave Antenna)
31 (6' Solid Microwave Antenna)
32 (4' Solid Microwave Antenna)
33 (72 MHz Antenna, High Gain)
34 (Phone Ringing Generator)
35 (10 GHz Waveguide Connector)
36 (Phone System)
37 (Channel Modem, Analog)
38 (Channel Modem, Digital)
39 (Pressurized Connector)

Notes
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<td>Accuracy</td>
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Notes
For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items
- Required
  - Design: SHTabQuant
  - Construction: Refer to Comp Book

Documentation
- Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References
- PPM Chapter
- Other
- Standards
- Specifications

Prep & Doc Manual Chapter(s): 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status Inactive Structure

Struct. 714- 5-ABB MOTORIST AID MICROWAVE TOWER EA

A = Operation
1 (Furnish & Install)
2 (Transport)
3 (Disassemble)
4 (Modify) BB = 00

BB = Tower Height
10 (51' - 75')
11 (76' - 100')
12 (101' - 125')
13 (126' - 150')

Details and Structure: Items 700 to 799
### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>714- 7- A</th>
<th>MOTORIST AID TRANSMISSION LINES</th>
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<tbody>
<tr>
<td>Unit</td>
<td>LF; M1</td>
</tr>
<tr>
<td>Accuracy</td>
<td>Linear Foot; 10th of a Meter</td>
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**Notes**

**Details**

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

**Required**

- Design: SHTabQuant
- Construction: Refer to Comp Book

**Recommended**

- Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- PPM Chapter
- Other Standards
- Specifications

- Plan Detail and/or Tech Spec Required
- Prep & Doc Manual Chapter(s): 7, 13

**TRNS*PORT Category (DRAFT FIELD):**

- 0200 Roadway

**Status**

- Inactive Structure

**Struct.** 714- 7- A MOTORIST AID TRANSMISSION LINES LF

A =

1 (1/2" Foam Transmission Line)
2 (7/8" Air Transmission Line)
3 (1 5/8" Air Transmission Line)
4 (2.01" X 1.16" Elliptic Waveguide)
5 (7/8" Foam Transmission Line)
6 (1.32" X .80" 10 GHz Elliptical Waveguide)
7 (1 5/8" Foam Transmission Line)

**Notes**

Details and Structure: Items 700 to 799
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### 714- 8- A MOTORIST AID MICROWAVE COMMUNICATION SHELTER

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<th>EA</th>
<th>Accuracy</th>
<th>Each</th>
<th>PlanQuantity?</th>
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**Notes**

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

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<th>Recommended</th>
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**Forms**

- **Design**: SHTabQuant
- **Construction**: COMP 700-050-03

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**

**Plan Detail and/or Tech Spec Required**

- **Prep & Doc Manual Chapter(s)**: 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**: Inactive Structure

**Struct.**: 714- 8- A MOTORIST AID MICROWAVE COMMUNICATION SHELTER

- A = Area In Square Feet
- 1 ( <100 Sq. Ft. Shelter)
- 2 (100-125 Sq. Ft. Shelter)
- 3 (126-150 Sq. Ft. Shelter)
- 4 (151-175 Sq. Ft. Shelter)
- 5 (176-200 Sq. Ft. Shelter)
- 6 (201-250 Sq. Ft. Shelter)
- 7 (251-300 Sq. Ft. Shelter)
- 8 (301-400 Sq. Ft. Shelter)
- 9 ( >400 Sq. Ft. Shelter)

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### 714- 9- A MOTORIST AID TECHNICAL SUPPORT

<table>
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**Notes**

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed.
for payment under this item.

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<td>Forms Design</td>
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<td>COMP 700-050-03</td>
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<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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<td>Documentation Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
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<tr>
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<tr>
<th>References</th>
<th>PPM Chapter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other Standards Specifications</td>
<td></td>
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Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status Inactive Structure

Struct. 714- 9- A MOTORIST AID TECHNICAL SUPPORT EA

A =
1 (Training Session Number 1)
2 (Training Session Number 2)
3 (Training Session Number 3)
4 (Testing Callboxes)
5 (Control Console)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>714- 73- RELAY STATION COMMUNICATION ASSEMBLY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit</td>
</tr>
<tr>
<td>----------</td>
</tr>
<tr>
<td>Notes</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
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<tbody>
<tr>
<td>Forms Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-03</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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<td>Documentation Design</td>
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<tr>
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<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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<thead>
<tr>
<th>References</th>
<th>PPM Chapter</th>
</tr>
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<tbody>
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Prep & Doc Manual Chapter(s)

Details and Structure: Items 700 to 799
### 714-73
**RELAY STATION COMMUNICATION ASSEMBLY**

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**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### 714-74
**CONTROL STATION COMMUNICATION ASSEMBLY**

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**Related Items**

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<tr>
<td>Construction</td>
<td>COMP 700-050-03</td>
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</tbody>
</table>

**Details**

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**References**

PPM Chapter

**Related Items**

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<th>Recommended</th>
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<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>COMP 700-050-03</td>
</tr>
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</table>

**Details**

Refer to PPM for recommended pay item plan note.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

### 714-75
**MOTORIST AID MICROWAVE**

<table>
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<th>Unit</th>
<th>EA</th>
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</thead>
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<tr>
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<td>Each</td>
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<tr>
<td>Plan</td>
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**Related Items**

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<th>Recommended</th>
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<tbody>
<tr>
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<tr>
<td>Construction</td>
<td>COMP 700-050-03</td>
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</tbody>
</table>

**Details**

Refer to PPM for recommended pay item plan note.
**Construction**

Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

**PPM Chapter**

**Other**

**Standards**

**Specifications**

Plan Detail and/or Tech Spec Required

**Prep & Doc Manual Chapter(s)** 6, 7, 13

---

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status** Inactive Structure

**Struct.** 714-75-ABB MOTORIST AID MICROWAVE EA

<table>
<thead>
<tr>
<th>Item</th>
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<tr>
<td>1</td>
<td>(Spares)</td>
</tr>
<tr>
<td>2</td>
<td>(Test Equipment)</td>
</tr>
<tr>
<td>BB =</td>
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</tr>
<tr>
<td>01</td>
<td>(Transmitter Baseband Combiner Card)</td>
</tr>
<tr>
<td>02</td>
<td>(Transmitter Baseband Amplifier Card)</td>
</tr>
<tr>
<td>03</td>
<td>(Transmitter Logic Card)</td>
</tr>
<tr>
<td>04</td>
<td>(Receiver Splitter Card)</td>
</tr>
<tr>
<td>05</td>
<td>(Receiver Baseband Amplifier Card)</td>
</tr>
<tr>
<td>06</td>
<td>(Receiver Logic Card)</td>
</tr>
<tr>
<td>07</td>
<td>(4w/4w Baseband Bridge)</td>
</tr>
<tr>
<td>08</td>
<td>(Alarm Card)</td>
</tr>
<tr>
<td>09</td>
<td>(Ringing Generator 5w)</td>
</tr>
<tr>
<td>10</td>
<td>(Hybrid Term Set)</td>
</tr>
<tr>
<td>11</td>
<td>(FXO Signaling Adaptor)</td>
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<tr>
<td>12</td>
<td>(FXS Signaling Adaptor)</td>
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<tr>
<td>13</td>
<td>(Bypass Card W/Attenuators)</td>
</tr>
<tr>
<td>14</td>
<td>(Line Pilot Sync Unit)</td>
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<tr>
<td>15</td>
<td>(Two-Step Group Translator)</td>
</tr>
<tr>
<td>16</td>
<td>(Dual Hybrid Card Kit)</td>
</tr>
<tr>
<td>17</td>
<td>(Equalizer / Timer For Battery Charger)</td>
</tr>
<tr>
<td>18</td>
<td>(RF Power Meter)</td>
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<td>19</td>
<td>(RF Power Sensor)</td>
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<tr>
<td>20</td>
<td>(Tracking Generator)</td>
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<tr>
<td>21</td>
<td>(Selective Level Meter)</td>
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<tr>
<td>22</td>
<td>(Frequency Counter)</td>
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<tr>
<td>23</td>
<td>(RF Attenuator 20w, 30 Db)</td>
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<td>24</td>
<td>(Variable Attenuator, 6-66 Db)</td>
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<td>25</td>
<td>(Trans, Imparrment Measurement Set -TIMS)</td>
</tr>
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<td>26</td>
<td>(Digital Multimeter)</td>
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<td>27</td>
<td>(4w/4w DTMF Bridge)</td>
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<td>28</td>
<td>(Test Fixtures)</td>
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<td>29</td>
<td>(Transmitter Power Amplifier)</td>
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<td>30</td>
<td>(Receiver RF Amplifier)</td>
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<td>31</td>
<td>(Transmitter Oscillator)</td>
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<tr>
<td>32</td>
<td>(Transmitter Modulator)</td>
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<td>33</td>
<td>(Receiver Local Oscillator)</td>
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<td>34</td>
<td>(Receiver If Amplifier)</td>
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<td>(Remote Alarm Terminal)</td>
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<td>36</td>
<td>(Selective Call Unit)</td>
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<td>37</td>
<td>(Channel Modem)</td>
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<td>38</td>
<td>(HF Combiner) S</td>
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The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### 715- 1- AB LIGHTING- CONDUCTORS

<table>
<thead>
<tr>
<th>Unit</th>
<th>LF; M1</th>
<th>Accuracy</th>
<th>Linear Foot; 10th of a Meter</th>
<th>PlanQuantity? yes</th>
</tr>
</thead>
</table>

**Notes**

**Effective for projects let January 2007; replaces 715-1-ABC and 2715-11A-BCC.**

**Details**

Includes conductors as per the plans and standard indexes. Design quantity shall be based on the length of single conductor in horizontal measurement.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td>Design</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
</tr>
</tbody>
</table>

**Documentation**

| Design      | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor. |
| Construction| Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances. |

**References**

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Design</th>
<th>Construction</th>
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</thead>
<tbody>
<tr>
<td>Other</td>
<td>Index No. 17500, 17501, 17502</td>
<td></td>
</tr>
</tbody>
</table>

**Specifications**

*Selected Items may require Tech Spec and/or Plan Detail*

**Prep & Doc Manual Chapter(s)** 6, 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0400 Lighting

**Status**

**Struct.** 715- 1- AB LIGHTING- CONDUCTORS LF

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)*
4 (Relocate)*
5 (Adjust /Modify)*
6 (Remove & Dispose)* Note: Contractor takes ownership
7 (Remove & Stockpile/Salvage)* Note: DOT/maintaining agency retains ownership
8 (Place out of Service)*
9  OPEN Note: May be defined in item structure as Special, Rehab, etc.
* When A=3-9, B=0

B= Size
1  (No. 10 or smaller)
2  (No 8 to No. 6)
3  (No. 4 to No. 2)
4  (No. 1 to No. 0)
5  (No. 1/0 to No. 3/0)
6  (No. 4/0 or larger)
9  (Special)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
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<td>LF</td>
<td>1/1/2007</td>
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<td>LF</td>
<td>1/1/2007</td>
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<td>LIGHTING CONDUCTORS, INSTALL, NO.8 - 6</td>
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715- 2- AB  LIGHTING CONDUIT

<table>
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<tbody>
<tr>
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<td>Linear Foot; 10th of a Meter</td>
<td>no</td>
</tr>
</tbody>
</table>

Notes
Details

For highway lighting applications only. Includes conduit, elbows, sweeps, connecting hardware, trenching and backfill as per the plans and standard indexes. Also includes the cost of restoring cut pavement, sidewalks, sod, etc. to its original condition. Use 'Underground' in locations where the placement of the conduit will not necessitate saw-cutting of pavement. Most conduit placed on new construction projects will be placed underground prior to the placement of pavement, and should be paid for as Underground. Underpavement should be used when it is necessary to saw-cut and backfill the pavement in order to place the conduit, i.e. under EXISTING PAVEMENT. Additional conduit placed for future use should be detailed in the plans; tabulate quantity as furnished & installed conduit.
When Furnish item is used, plans or specs should detail location (maintenance yard or other) for delivery of product.

**Related Items**

<table>
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<tr>
<th>Required</th>
<th>Recommended</th>
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<tbody>
<tr>
<td>Forms</td>
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<tr>
<td>Design</td>
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<td>Documentation</td>
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<td>Design</td>
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</tr>
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**References**

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**Extra**

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<th>7, 13</th>
</tr>
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**TRNS*PORT Category (DRAFT FIELD):**

| 0400 | Lighting |

**Status**

**Struct. 715- 2- AB**

A= Operation  
1 (Furnish & Install)  
2 (Furnish)  
3 (Install)  
B = Location  
0  
1 (Underground)  
2 (Underpavement Sawcut) Note: Only when sawcutting is necessary for locations under EXISTING PAVEMENT  
3 (Surface Mount)

**Notes**

See details above for furnish item

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<td>0715 2 12</td>
<td>LIGHTING - CONDUIT, F&amp;I, UNDER EXISTING PAVEMENT SAWCUT</td>
<td>LF</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$15.74</td>
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<tr>
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<td>LIGHTING CONDUIT, F&amp;I, SURFACE MOUNT</td>
<td>LF</td>
<td>1/1/2007</td>
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**715- 4-ABC**

**LIGHT POLE COMPLETE**

<table>
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<th>EA</th>
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<th>Each</th>
<th>PlanQuantity?</th>
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<tbody>
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<td></td>
<td></td>
<td>no</td>
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</tbody>
</table>

**Notes**

Effective January 2008; replaces 715-4A-BCC

**Details**

For standard light pole designs; poles listed on Qualified Products List (QPL). If a special foundation is needed, select the pay item based on the pole type; detail the special foundation in the plans.
Use C=Custom only when the pole height is non-standard. Remaining design standards apply. 

For Special Design (non-standard) light poles, refer to 715-5AB-CDD.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

**Required** 17501, 17503, 17515  
**Recommended**

**Forms**

**Design** SBTBLT  
**Construction** Refer to Comp Book

**Documentation**

**Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.  
**Construction** Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter  
Other  
Standards Structures Manual, Vol 9  
Specifications

*Selected Items may require Tech Spec and/or Plan Detail

**Prep & Doc Manual Chapter(s)**

---

**TRNS*PORT Category (DRAFT FIELD):** 0400 Lighting

**Status**

**Struct.** 715-4-ABC  
**LIGHT POLE COMPLETE**  
**EA**

A= Operation  
0 (Furnish & Install Standard Pole, Special Foundation) *foundations other than as shown on index 17515; details in plans  
1 (Furnish & Install) Standard pole, standard foundation  
2 (Furnish)  
3 (Install) BC=00  
4 (Relocate) BC=00  
6 (Remove) BC=00  

B= Wind Speed (mph)  
1 (150)  
2 (130)  
3 (110)  

C= Pole Height (feet)  
1 (40)  
2 (45)  
3 (50)  
9 (Custom height)

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
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<td>LIGHT POLE COMPLETE, F&amp;I, SPECIAL FOUNDATION, WIND SPEED 150, POLE HEIGHT 40'</td>
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<td>1/1/2008</td>
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<td>LIGHT POLE COMPLETE, F&amp;I, SPECIAL FOUNDATION, WIND SPEED 150, POLE HEIGHT 45'</td>
<td>EA</td>
<td></td>
<td>1/1/2008</td>
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<td>$4,000.00</td>
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<td>LIGHT POLE COMPLETE, F&amp;I, SPECIAL FOUNDATION, WIND SPEED 150, POLE HEIGHT 50'</td>
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<td>1/1/2008</td>
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<td>1/1/2008</td>
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<td>1/1/2008</td>
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### 715-5-AB LUMINAIRE & BRACKET ARM

**Unit**: EA  
**Accuracy**: Each  
**PlanQuantity**: no

**Notes**
Includes the bracket arm, luminaire with lamp and all necessary mounting hardware as per the plans and indexes.

**Related Items**
- **Required**: SBTBLT
- **Recommended**: COMP 700-050-03

---

Details and Structure: Items 700 to 799  
Page 53 of 148
Standards Index No. 17500, 17501
Specifications

Struct. 715-5-AB LUMINAIRE & BRACKET ARM EA

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Remove)

Code B = 0 If A = 3, 4, Or 5
B = Material Type
1 (Aluminum)
2 (Galvanized Steel)

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Item</th>
<th>Description</th>
<th>Unit</th>
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715-7-AB LOAD CENTER

Unit EA

Accuracy Each

PlanQuantity? no

Notes
Details
Includes all components listed in the Standards and all external and internal conduit and conductors for the service.

Related Items
Required SBTBLT
Recommended COMP 700-050-03

Forms
Design Refer to Comp Book

Documentation
Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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**715- 10- A  LIGHT POLE FOUNDATION**

**Notes**

Includes the foundation and anchor bolts with lock nuts and washers as per the plans and standard indexes. Includes all components listed in the Standards and all external conduit and conductors for the service.

**Related Items**

**Forms**

- **Required Design**
  - SBTBLT
- **Recommended Design**
  - COMP 700-050-03

**Documentation**

- **Design**
  - Refer to Comp Book
- **Construction**
  - Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
  - **Construction**
    - Record final quantity on the tabulation sheet (plans) or computation form (comp book).
Details and Structure: Items 700 to 799
**TRNS*PORT Category (DRAFT FIELD):** 0400 Lighting

**Status**

**Struct.** 715-11-ABC **LUMINAIRE** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) BC=00
4 (Relocate) BC=00
5 (Remove) BC=00
6 (Repair & Reinstall) BC=00

B = Classification
1 (Roadway)
2 (Underdeck)
3 (Sign)

C = Type
1 (Cobra Head)
2 (High Mast)
3 (Pole Top)
4 (Shoe Box)
5 (Wall Mount)
6 (Pendant Hung)
7 (Sign Mount)
8 (Flood)
9 (Special)*

**Notes**  *Selected Items require Tech Spec and/or Plan Details.

---

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*

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### 715-14-AB LIGHTING- PULL BOX

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**Notes**
Includes the pull box and cover as per plans and standard indexes.

**Details**
Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Related Items**
- **Forms**
  - Design: SBTBLT
  - Construction: Refer to Comp Book
- **Documentation**
  - Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
  - Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**
- PPM Chapter
- Other: Index No. 17500, 17503

**Prep & Doc Manual Chapter(s)**
7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0400 Lighting

**Status**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Remove)
### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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**715-19-A LIGHTING- SURGE PROTECTOR**

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**Notes**

- **Details**
- **Related Items**
- **Required Forms**
  - Design: SBTBLT
  - Construction: Refer to Comp Book

**Related Items**

- **Required**
  - Design: SBTBLT
  - Construction: Refer to Comp Book

**Documentation**

- **Design**
  - Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**
  - Record final quantity on the tabulation sheet (plans) or computation form (comp book).

---

Details and Structure: Items 700 to 799
Standards
Specifications

Struct.  715- 19-  A LIGHTING- SURGE PROTECTOR EA

A =
1 (Pole Base)
2 (Install Only)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Unit</th>
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<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0715 19 1</td>
<td>LIGHTING - SURGE PROTECTOR, POLE BASE</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$269.54</td>
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</table>

715- 19-ABC  HIGH MAST LIGHT POLE, COMPLETE

Notes

Effective January 2008; replaces 715-19A-BBB

Details

Related Items

Related Items

Forms
Design
SBTBLT
COMP 700-050-03

Construction
Refer to Comp Book

Documentation

Design

Construction
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter
Other
Standards
Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0400 Lighting

Status

Struct.  715- 19-ABC  HIGH MAST LIGHT POLE, COMPLETE EA

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) BC=00
6 (Remove) BC=00

B= Wind Speed (mph)
1 (150)
2 (130)
### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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<th>Valid Date</th>
<th>Obsolete Date</th>
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<tbody>
<tr>
<td>0715 19111</td>
<td>HIGH MAST LIGHT POLE, F&amp;I, WIND SPEED-150 MPH, POLE 80'</td>
<td>EA</td>
<td>1/1/2008</td>
<td>1/1/2008</td>
<td>$26,000.00</td>
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<td>0715 19112</td>
<td>HIGH MAST LIGHT POLE, F&amp;I, WIND SPEED-150 MPH, POLE 100'</td>
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<td>$29,850.00</td>
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<tr>
<td>0715 19113</td>
<td>HIGH MAST LIGHT POLE, F&amp;I, WIND SPEED-150 MPH, POLE 120'</td>
<td>EA</td>
<td>1/1/2008</td>
<td>1/1/2008</td>
<td>$42,500.00</td>
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<td>0715 19119</td>
<td>HIGH MAST LIGHT POLE, F&amp;I, WIND SPEED-150 MPH, CUSTOM HEIGHT</td>
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<td>$57,478.12</td>
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<tr>
<td>0715 19121</td>
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<td>0715 19133</td>
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<td>1/1/2008</td>
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**715-20 A LIGHTING- SCHEDULED CLEANING**

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<th>LU</th>
<th>Accuracy</th>
<th>Details</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
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**Notes**

**Related Items**

- **Forms**
  - Required
    - Design: SBTBLT
    - Construction: Refer to Comp Book
  - Recommended: COMP 700-050-03

**Documentation**

- Design
  - Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- Construction
  - Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- PPM Chapter
- Other
- Standards
- Specifications

**Prep & Doc Manual Chapter(s)** 7, 13
**Struct.** 715-20- A LIGHTING- SCHEDULED CLEANING LU

A =
1. (Pole Mounted <50')
2. (Underdeck)
3. (Sign Luminaire)
4. (High Mast)

**Notes**

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0715 20 4</td>
<td>LIGHTING - SCHEDULED CLEANING, HIGH MAST</td>
<td>LU</td>
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**715-21-1 LUMINAIRE STARTER BOARD**

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<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
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<tbody>
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**Notes**

**Details**

**Related Items**

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<td>COMP 700-050-03</td>
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**Forms**

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**Documentation**

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**References**

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**Struct.** 715-21-1 LUMINAIRE STARTER BOARD EA

**Notes**

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<tbody>
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<td>LUMINAIRE STARTER BOARD</td>
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**715-26- A QUICK DISCONNECT PLUG**

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<tbody>
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**Notes**

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Details and Structure: Items 700 to 799
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Obsolete Date</th>
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</thead>
<tbody>
<tr>
<td>0715 26 1</td>
<td>QUICK DISCONNECT PLUG, SWITCH BOXING FOR SIGN</td>
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<td>0715 26 2</td>
<td>QUICK DISCONNECT PLUG,PLUG POLE BASE, HIGH MAST</td>
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**Struct. 715-30- AA**  
**GROUP RELAMPING (LIGHTING) LU**

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<th>Lighting Type</th>
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<tbody>
<tr>
<td>1</td>
<td>Mercury Vapor</td>
</tr>
<tr>
<td>2</td>
<td>High Pressure Sodium</td>
</tr>
<tr>
<td>3</td>
<td>Metal Halide</td>
</tr>
<tr>
<td>4</td>
<td>Bridge Mounted HPS</td>
</tr>
<tr>
<td>5</td>
<td>High Mast/HPS</td>
</tr>
<tr>
<td>6</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Low Pressure Sodium</td>
</tr>
<tr>
<td>9</td>
<td>Fluorescent</td>
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<tr>
<td>10</td>
<td>Incandescent</td>
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<td>11</td>
<td>State Furnished Lamps</td>
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**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Unit</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
<tr>
<td>Construction</td>
<td>COMP 700-050-03</td>
</tr>
</tbody>
</table>

**Details**

- **Unit**: LO  
- **Accuracy**: Location  
- **Location**:  
- **Plan Quantity**: no

**Notes**

- Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.  
- Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- PPM Chapter
- Other
- Standards
- Specifications
- Prep & Doc Manual Chapter(s)

---

**Struct. 715-31- AA**  
**LIGHTING - ROUTINE MAINTENANCE LO**

<table>
<thead>
<tr>
<th>AA</th>
<th>Location Type</th>
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<tbody>
<tr>
<td>1</td>
<td>Shoulder, Single Arm</td>
</tr>
<tr>
<td>2</td>
<td>Shoulder, Double Arm</td>
</tr>
<tr>
<td>3</td>
<td>Median, Single Arm, Wall Mounted</td>
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<tr>
<td>4</td>
<td>Median, Double Arm, Wall Mounted</td>
</tr>
<tr>
<td>5</td>
<td>Bridge Mounted</td>
</tr>
</tbody>
</table>
6 (Underdeck)  
7 (Load Center)  
8 (High Mast Pole)  
9 (Overhead Sign Assembly)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### 715-34- A LIGHT POLE (MAINTENANCE USE ONLY)

<table>
<thead>
<tr>
<th>Unit</th>
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<th>PlanQuantity?</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>Each</td>
<td>no</td>
</tr>
</tbody>
</table>

**Notes**

This is a Maintenance item. Coordinate with District Maintenance Office.

**Related Items**

- **Design Required**: SBTBLT  
- **Construction Required**: COMP 700-050-03

**Design Documentation**

- Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- PPM Chapter  
- Other  
- Standards  
- Specifications  
- Prep & Doc Manual Chapter(s): 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0400 Lighting

**Status**

- **Struct.**: 715-34- A LIGHT POLE (MAINTENANCE USE ONLY) EA

  - A =  
  1. Furnish New Pole  
  2. Repair A Pole And Furnish For Reuse

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### 715-35- A MAST ARM

<table>
<thead>
<tr>
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<tbody>
<tr>
<td></td>
<td></td>
<td>Each</td>
<td>no</td>
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</tbody>
</table>

**Notes**

This is a Maintenance item. Coordinate with District Maintenance Office.

**Related Items**

- **Design Required**: SBTBLT  
- **Construction Required**: COMP 700-050-03

**Design Documentation**

- Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- Record final quantity on the tabulation sheet (plans) or computation form (comp book).
### Structural Item 715-35-4

**Description:** MAST ARM, REPAIR

- **Unit:** EA
- **Valid Date:** 1/1/2007
- **LRE Ref:** $0.01

#### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
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<td>MAST ARM, REPAIR</td>
<td>EA</td>
<td>TSP/Detail</td>
<td>1/1/2007</td>
<td>Obsolete Date</td>
<td>$0.01</td>
</tr>
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</table>

**Details:** Includes the frangible base, attachments, bolts and washers as per the plans and standard indexes.

- **Related Items:**
  - **Required:** Design
  - **Recommended:** Construction

- **Forms:**
  - **Design:** SBTBLT
  - **Construction:** COMP 700-050-03

- **Documentation:**
  - **Design:** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
  - **Construction:** Record final quantity on the tabulation sheet (plans) or computation form (comp book).

---

**Status**

**Struct. 715-36-AB**

- **Description:** LIGHT POLE FRANGIBLE BASE

- **Unit:** EA
- **Accuracy:** Each
- **PlanQuantity?** no

**Notes**

Includes the frangible base, attachments, bolts and washers as per the plans and standard indexes.
5 (Leveling In-Place Pole)
B = Type
1 (Shoe Base)
2 (Transformer Base)
3 (Frangible Insert)
4 (Door Assembly)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
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</table>

**715-37- A**  
LIGHT POLE PHOTO ELECTRIC CONTROL ASSEMBLY

<table>
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<th>Unit</th>
<th>Accuracy</th>
<th>Plan Quantity?</th>
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<tbody>
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</table>

**Notes**

*Includes the photo electric control, transformer, conduit and conductors as per the plans and standard indexes.*

**Related Items**

<table>
<thead>
<tr>
<th>Forms</th>
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<th>Recommended</th>
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**Documentation**

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<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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**References**

<table>
<thead>
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<th>PPM Chapter</th>
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**Prep & Doc Manual Chapter(s)**  
7, 13

**TRNS*PORT Category (DRAFT FIELD):**  
0400 Lighting

**Status**  
Inactive Structure

**Struct.**  
715-37- A  
LIGHT POLE PHOTO ELECTRIC CONTROL ASSEMBLY  EA

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Remove)
5 (Relocate)

**Notes**  
Inactive

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*
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<th>Description</th>
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<th>Valid Date</th>
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### 715-50- LIGHTING- INSIDE BOX GIRDER

**Unit**: LS/LS  
**Accuracy**: Lump Sum  
**Plan Quantity?**: No

**Notes**
*Effective January 2007 letting. (Earlier implementation upon request)*

**Details**
Intended for lighting system within box girder structures. Coordinate the use of this item with the Mechanical/Electrical Section of the State Structures Office. All work must be detailed in the plans/specifications, including a tabulation of materials.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**
- **Required**: SHTabQuantLS  
- **Recommended**: COMP 700-050-01

**Documentation**
- **Design**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**
- **PPM Chapter**: Other
- **Specifications**: Plan Detail and/or Tech Spec Required

**Prep & Doc Manual Chapter(s)**

**TRNS*PORT Category (DRAFT FIELD)**: 0400  
**Status**: Lighting  
**Struct.** 715-50- LIGHTING- INSIDE BOX GIRDER  
**LS/LS**  

---

**Notes**
*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*

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<th>Obsolete Date</th>
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### 715-51- LIGHTING- TRANSFORMER FOR SPECIAL LIGHTING

**Unit**: EA  
**Accuracy**: Each  
**Plan Quantity?**: No

**Notes**
This is a special item for non-standard, underdeck aesthetic lighting systems.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**
- **Required**
- **Recommended**

---

**Details and Structure**: Items 700 to 799
Standards
Specifications

Struct. 715-51- LIGHTING- TRANSFORMER FOR SPECIAL LIGHTING  EA

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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715-52- LIGHTING- COMMUNICATION/CONTROL CABLE FOR SPECIAL LIGHTING SYSTEM

Notes
Details
This is a special item for non-standard, underdeck aesthetic lighting systems.
Related Items
Required
Recommended

Forms
Design
Construction

Documentation
Design
Construction

References
PPM Chapter
Other
Standards
Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0400 Lighting

Status

Struct. 715-52- LIGHTING- COMMUNICATION/CONTROL CABLE FOR SPECIAL LIGHTING SYSTEM  LF

Notes
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### 715-500- A LIGHT POLE CABLE DISTRIBUTION SYSTEM

**Unit** | EA  
**Accuracy** | Each  
**PlanQuantity?** | no

**Notes**
Includes the surge protector, fuse holders with fuses, waterproof connectors and waterproof wiring connection to the luminaire. Refer to Section 992 of the Specifications for details.

**Related Items**
- **Required**
  - Design: SBTBLT
  - Construction: COMP 700-050-03
  - Form: Refer to Comp Book

**Documentation**
- Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**
- PPM Chapter
- Other
- Standards
- Specifications
  - Prep & Doc Manual Chapter(s): 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0400 Lighting

**Struct.** 715-500- A LIGHT POLE CABLE DISTRIBUTION SYSTEM EA

A = Type  
1 = (Conventional)  
2 = (High Mast)  
3 = (Wall Mounted)

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### 715-5AB-CDD LIGHT POLE COMPLETE, SPECIAL DESIGN

**Unit** | EA  
**Accuracy** | Each  
**PlanQuantity?** | no

**Notes**

---

Details and Structure: Items 700 to 799
Details
Used for Specially Designed Poles, including decorative or non-standard aluminum. Requires shop drawings. Includes the pole, bracket arm, luminaire with lamp, anchor bolts with lock nuts and washers, frangible base and foundation.

For special foundations, select pay item based on pole type; detail foundation in the plans. For standard aluminum poles, use item 715-4A-BCC (through 12/07) or 715-4-ABC (effective 1/2008)

For Turnpike Projects, Top Mount light specs/details may be available.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

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TRNS*PORT Category (DRAFT FIELD): 0400 Lighting

Status

Struct. 715-5AB-CDD LIGHT POLE COMPLETE, SPECIAL DESIGN EA

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate) B-CDD = 0-000
5 (Remove) B-CDD = 0-000
6 (Repair & Reinstall) B-CDD = 0-000
7 (Furnish & Install With Internal Vibration Damper)

B = No. Arms & Location
1 (Single Arm Shoulder Mount)
2 (Double Arm Shoulder Mount)
3 (Single Arm Wall Mount)
4 (Double Arm Wall Mount)
5 (Single Arm Bridge Mount)
6 (Pole Top Mount)*
7 (Double Arm Bridge Mount)
8 (Double Arm, Pole Top Mount)*

C = Material Type
1 (Aluminum) non-standard designs
2 (Galvanized Steel)
3 (Concrete)  
4 (Fiberglass)  
5 (Wood)  
6 (Cast Iron)  

DD = Mounting Height (Open In Five Foot Increments)

Notes: *Turnpike has adopted the Top Mount as a standard for some applications; specs/details may be available from District Design.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<td>1/1/2007</td>
<td>$4,518.00</td>
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<tr>
<td>Code</td>
<td>Description</td>
<td>Unit</td>
<td>Accuracy</td>
<td>Each</td>
<td>Plan Quantity?</td>
<td>Quantity</td>
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<td>--------------</td>
<td>------------------------------------------------------------------------------</td>
<td>------</td>
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<tr>
<td>0715574145</td>
<td>LIGHT POLE COMPLETE, F&amp;I, INTERNAL VIBRATING DAMPER, DOUBLE ARM WALL MOUNT, ALUMINUM, 45'</td>
<td>EA</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$5,707.07</td>
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<td>0715574150</td>
<td>LIGHT POLE COMPLETE, F&amp;I, INTERNAL VIBRATING DAMPER, DOUBLE ARM WALL MOUNT, ALUMINUM, 50'</td>
<td>EA</td>
<td>1/1/2007</td>
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<td>$5,250.00</td>
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<td>0715575130</td>
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<td>1/1/2007</td>
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<tr>
<td>0715575140</td>
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<td>EA</td>
<td>1/1/2007</td>
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<td>$3,872.93</td>
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<tr>
<td>0715575145</td>
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<td>EA</td>
<td>1/1/2007</td>
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<td>$7,821.44</td>
</tr>
<tr>
<td>0715576140</td>
<td>LIGHT POLE COMPLETE, F&amp;I, INTERNAL VIBRATING DAMPER, POLE TOP MOUNT, ALUMINUM, 40'</td>
<td>EA</td>
<td>1/1/2007</td>
<td></td>
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<td>$6,739.11</td>
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<tr>
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<td>EA</td>
<td>1/1/2007</td>
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<td>$4,333.33</td>
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<tr>
<td>0715577135</td>
<td>LIGHT POLE COMPLETE, F&amp;I-W / INTERNAL VIBRATION DAMPER, DOUBLE ARM-BRIDGE MOUNT, ALUMINUM, 35'</td>
<td>EA</td>
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<td>LIGHT POLE COMPLETE, SPECIAL, F&amp;I, INTERNAL VIBRATING DAMPER, POLE BRIDGE MOUNT, ALUMINUM, 45'</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
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<td>$4,200.00</td>
</tr>
<tr>
<td>0715578145</td>
<td>LIGHT POLE COMPLETE, SPECIAL, F&amp;I, INTERNAL VIBRATING DAMPER, POLE TOP MOUNT, ALUMINUM, 45'</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$4,200.00</td>
</tr>
</tbody>
</table>

**721-70-AB PASSENGER SHELTER-ALUMINUM, PREFABRICATED**

**Notes**

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

**Required**

- Design: SHTabQuant

**Recommended**

- COMP 700-050-03
**Topic No. 600-000-002**

**Basis of Estimates**

**2009 Edition**

**October 6, 2008**

---

**Struct.  721- 70- AB PASSENGER SHELTER- ALUMINUM, PREFABRICATED EA**

A = 1 (Aluminum)

B = 1 (Pre-Fabricated)

---

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

---

**721- 74- A TRASH RECEPTACLE**

**Unit** | EA  
**Accuracy** | Each  
**Plan?** | no

**Notes**

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

**Required** | Recommended

Design | SHTabQuant | COMP 700-050-03

**Forms**

**Documentation**

Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction | Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter  
Other  
Standards  
Specifications

**Prep & Doc Manual Chapter(s)** | 7, 13

---

**TRNS*PORT Category (DRAFT FIELD):** 0800  
**Architectural**

---

**Details and Structure: Items 700 to 799**  
**Page 76 of 148**
Struct. 721-74- A  TRASH RECEPTACLE  EA

A = Type
1 (Pre-Fabricated)
2 (Precast)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
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<tbody>
<tr>
<td>0721 74 1</td>
<td>TRASH RECEPTACLE, PRE-FABRICATED</td>
<td>EA T</td>
<td>1/1/2007</td>
<td></td>
<td>$1,694.42</td>
<td></td>
</tr>
</tbody>
</table>

721-75- A  BENCHES  EA

Unit EA  Accuracy Each  PlanQuantity? yes

Notes

Details

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

Required Recommended
Forms Design SHTabQuant COMP 700-050-03
Construction Refer to Comp Book

Documentation

Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter Other Standards Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status

Struct. 721-75- A  BENCHES  EA

A = Type
1 (Pre-Fabricated)
2 (Precast)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0721 75 1</td>
<td>BENCHES, PRE-FABRICATED</td>
<td>EA T</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$11,389.50</td>
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</tbody>
</table>

721-77- BICYCLE PARKING RACK

Details and Structure: Items 700 to 799
Notes

Details
For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

Forms

Documentation

References

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD):

Status

Struct.

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0721 77</td>
<td>BICYCLE PARKING RACK</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$500.00</td>
</tr>
</tbody>
</table>

721- 80-

PEDESTRIAN PLAZA

Notes

Details
May include pedestrian banners, drinking fountains, kiosk, and other items, as detailed in the plans. Tabulation summary required on all projects.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

Forms

Documentation

References

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD):

Status

Struct.

Notes
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### 730-76-ABB  STEEL CASING, OPEN TRENCH

**Unit** LF; M1  
**Accuracy** Linear Foot; 10th of a Meter  
**PlanQuantity?** no

**Notes**

a=1, 4, 5 valid for open cut trench applications only. For Jack & Bore, Directional Bore, and/or vibratory plowing, refer to Items 555, 556, and/or 557.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

**Forms**  
**Required** Design SHTabQuant  
**Recommended** COMP 700-050-03

**Construction** Refer to Comp Book

**Documentation**  
**Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.  
**Construction** Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

**PPM Chapter**  
**Other**  
**Standards**  
**Specifications**

**Plan Detail and/or Tech Spec Required**

**Prep & Doc Manual Chapter(s)** 6, 7, 13
### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0730 76101</td>
<td>STEEL CASING, OPEN TRENCH, F&amp;I, 2&quot;</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$60.00</td>
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<tr>
<td>0730 76103</td>
<td>STEEL CASING, OPEN TRENCH, F&amp;I, 4&quot;</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$72.94</td>
</tr>
<tr>
<td>0730 76104</td>
<td>STEEL CASING, OPEN TRENCH, F&amp;I, 6&quot;</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
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<td>$49.09</td>
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<td>0730 76105</td>
<td>STEEL CASING, OPEN TRENCH, F&amp;I, 8&quot;</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$80.00</td>
</tr>
<tr>
<td>0730 76107</td>
<td>STEEL CASING, OPEN TRENCH, F&amp;I, 12&quot;</td>
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<td>1/1/2007</td>
<td></td>
<td>$84.18</td>
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<tr>
<td>0730 76108</td>
<td>STEEL CASING, OPEN TRENCH, F&amp;I, 14&quot;</td>
<td>LF</td>
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<td>1/1/2007</td>
<td></td>
<td>$94.18</td>
</tr>
<tr>
<td>0730 76109</td>
<td>STEEL CASING, OPEN TRENCH, F&amp;I, 16&quot;</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
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<td>$245.00</td>
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</table>
For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

### Related Items

#### Forms

**Design**  
SHTabQuant  
COMP 700-050-03  
Refer to Comp Book

**Construction**  
Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.  
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

#### Documentation

**Design**

**Construction**

#### References

**PPM Chapter**  
Other  
Standards  
Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

### Status

**Struct.**  
730-77-AA CASING SPACERS

AA = Carrier Size  
01 (2")  
02 (3")  
03 (4")  
04 (6")
Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0730 771</td>
<td>CASING SPACERS, 2&quot; CARRIER SIZE</td>
<td>EA</td>
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<td>1/1/2007</td>
<td></td>
<td>$119.30</td>
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</tbody>
</table>

730-83- A  WELL

Unit  PW; EA; LF; M1

Accuracy Per Well; Each; Linear Foot; 10th of a Meter

Plan Quantity? no

Notes

For roadway or landscaping applications. Designer should determine if permits are required by local and/or state agencies.

When used for landscape applications, load pay item in landscape category. For Roadway applications, load item in roadway category.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Final Measure:
For Per Each/Well Items: Final tabulation of quantities must be recorded on proper form in computation book by location.
For Length Measurements: Record final measurements on proper form in computation book or field book. When measurements have been recorded in the field book, transfer final quantities to computation book.

Related Items

Required

Recommended

Details and Structure: Items 700 to 799
### 730-83- A WELL (IN EXCESS OF 250 FEET DEPTH)

| Unit      | LF; M1 | Accuracy   | Linear Foot; 10th of a Meter | PlanQuantity? | No |

#### Notes

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

#### Related Items

**Forms**

- **Design**: SHTabQuant
- **Construction**: Refer to Comp Book

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**

**Plan Detail and/or Tech Spec Required**

#### Other

TRNS*PORT Category (DRAFT FIELD): 200 or 600 Roadway or Landscaping

---

**Status**

Struct. 730-83- A WELL PW; EA; LF;

- **A =**
  - 4 (4" Casing)
  - 6 (6" Casing)

---

### Form 730-84- A WELL (IN EXCESS OF 250 FEET DEPTH)

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
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<td>0730 83 4</td>
<td>WELL, TO 250' DEPTH, 4&quot; CASING</td>
<td>PW</td>
<td>T</td>
<td>1/1/2007</td>
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<td>$13,500.00</td>
</tr>
<tr>
<td>0730 83 6</td>
<td>WELL, TO 250' DEPTH, 6&quot; CASING</td>
<td>PW</td>
<td>T</td>
<td>1/1/2007</td>
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<td>$13,500.00</td>
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The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### 730- 88- PUMPING SYSTEM

<table>
<thead>
<tr>
<th>Unit</th>
<th>EA</th>
<th>Accuracy</th>
<th>Each</th>
<th>PlanQuantity?</th>
<th>no</th>
</tr>
</thead>
</table>

**Notes**

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

**Forms**

**Required**

- Design: SHTabQuant

**Recommended**

- Design: COMP 700-050-03

**Construction**

- Refer to Comp Book

**Documentation**

**Design**

- Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Construction**

- Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- PPM Chapter
- Other
- Standards
- Specifications

Plan Detail and/or Tech Spec Required

**Prep & Doc Manual Chapter(s)** 6, 7, 13

**Status**

**Struct.** 730- 88- PUMPING SYSTEM EA

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tr>
<td>0730 88</td>
<td>PUMPING SYSTEM</td>
<td>EA</td>
<td>T</td>
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### 735- 74- AA TOLL PLAZA

<table>
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<th>LS/LS</th>
<th>Accuracy</th>
<th>Lump Sum</th>
<th>PlanQuantity?</th>
<th>yes</th>
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</thead>
</table>

**Notes**

Details and Structure: Items 700 to 799
Tabulation summary required on all projects. See 735-88-AA for modifications to existing toll plazas.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Required**

### Standards

**Design**

SHTabQuantLS

### Recommendations

### Forms

**Design**

Refer to Comp Book

### Documentation

**Design**

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

**Construction**

Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

### References

PPM Chapter

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

**Prep & Doc Manual Chapter(s)** 7, 13

### Status

**Struct.** 735-74-AA

TOLL PLAZA

LS/LS

AA = blank (single location)

1 (Location 1)

2 (Location 2)

3 (Location 3)

4 (Location 4)

5 (Location 5)

6 (Location 6)

7 (Location 7)

8 (Location 8)

9 (Location 9)

10 (Location 10)

11 (Location 11)

12 (Location 12)

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0735 74</td>
<td>TOLL PLAZA, SINGLE LOCATION</td>
<td>LS</td>
<td>T</td>
<td>1/1/2007</td>
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<td>$1,770,392.50</td>
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<tr>
<td>0735 74 1</td>
<td>TOLL PLAZA, LOCATION 1</td>
<td>LS</td>
<td>T</td>
<td>1/1/2007</td>
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<tr>
<td>0735 74 2</td>
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<td>LS</td>
<td>T</td>
<td>1/1/2007</td>
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</table>

**735-79-**

SERVICE PLAZA - SEWAGE AND WATER MODIFICATIONS

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS/LS</td>
<td>Lump Sum</td>
<td>no</td>
</tr>
</tbody>
</table>

Details and Structure: Items 700 to 799
For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td>SHTabQuantLS</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
<tr>
<td>Documentation</td>
<td>Design</td>
</tr>
<tr>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
</tbody>
</table>

**References**

PPM Chapter

Prep & Doc Manual Chapter(s) 6, 7, 13

---

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

**Status** Inactive Structure

**Struct.** 735- 79-

SERVICE PLAZA- SEWAGE AND WATER MODIFICATIONS

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**The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0735 79</td>
<td>SERVICE PLAZA- SEWAGE AND WATER MODIFICATIONS</td>
<td>LS</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$50,000.00</td>
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735- 80-

SERVICE PLAZA RENOVATION

<table>
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<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
<th>yes</th>
</tr>
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</table>

**Notes**

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

---

**Details and Structure: Items 700 to 799**
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### 735-81- SERVICE/TOLL PLAZA- UNDERGROUND STRUCTURE

| Unit | EA | Accuracy | Each | Plan Quantity? | no |

**Notes**

Valid for Turnpike/Service Plaza use only.

Detail the size, depth, and any material requirements in the plans or specifications. If structure is to be similar to drainage structure, consider reference to Section 425 of the specifications.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

### Related Items

**Required**

**Recommended**

### Forms

- **Design**
  - Construction
    - Refer to Comp Book

### Documentation

- **Design**
  - Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

- **Construction**
  - Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References

- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**
  - Plan Detail and/or Tech Spec Required

**Prep & Doc Manual Chapter(s)**

---

**TRNS*PORT Category (DRAFT FIELD):**

**Status**

**Struct.** 735-81- SERVICE/TOLL PLAZA- UNDERGROUND STRUCTURE EA

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### 735-82- A TOLL PLAZA CANOPY
Unit | SF; M2 | Accuracy | Square Foot; 10th of a Square Meter | PlanQuantity? | yes

Notes

Details

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

Required

Forms

Design | SHTabQuant

Construction | Refer to Comp Book

Documentation

Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction | Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) | 7, 13

TRNS*PORT Category (DRAFT FIELD): | 0800 Architectural

Status | Inactive Structure

Struct. | 735- 82- A | TOLL PLAZA CANOPY SF

A =
1 (Concrete)
2 (Aluminum)
3 (Steel)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

735- 84- A | TOLL PLAZA ISLAND

Unit | EA | Accuracy | Each | PlanQuantity? | no

Notes

Details

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

Required

Forms

Design | SHTabQuant

Construction | Refer to Comp Book

Documentation

Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction | Record final quantity on the tabulation sheet (plans) or computation form (comp book).
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### 735- 86- A DETECTORS VEHICLE- TREADLE FRAME

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<thead>
<tr>
<th>Unit</th>
<th>EA</th>
<th>Accuracy</th>
<th>Each</th>
<th>PlanQuantity?</th>
<th>no</th>
</tr>
</thead>
</table>

**Notes**

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

<table>
<thead>
<tr>
<th>Forms</th>
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<th>Recommended</th>
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<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-03</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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</tbody>
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<tr>
<th>Documentation</th>
<th>Design</th>
<th>Location in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
<td></td>
</tr>
</tbody>
</table>

**References**

PPM Chapter

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

---

**Status**

**Struct.** 735- 86- A DETECTORS VEHICLE- TREADLE FRAME EA

A =

1 (Existing Concrete Pavement)

2 (New Concrete Pavement)
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### 735-87- A  
**UTILITY TUNNEL**

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>LF; M1</td>
<td>Linear Foot; 10th of a Meter</td>
<td>no</td>
<td></td>
</tr>
</tbody>
</table>

**Details**

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
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<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
</tbody>
</table>

**Forms**

**Documentation**

- Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- PPM Chapter
- Other
- Standards
- Specifications

Plan Detail and/or Tech Spec Required

**Prep & Doc Manual Chapter(s)**

---

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

Inactive Structure

**Struct.** 735-87- A  
**UTILITY TUNNEL**

- A =
  1 (7' X 7')
  2 (6' X 8')
  3 (7' X 8')

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### 735-88- AA  
**TOLL PLAZA MODIFY EXISTING**

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS/LS</td>
<td>Lump Sum</td>
<td>yes</td>
<td></td>
</tr>
</tbody>
</table>

**Details**

For use on Turnpike and other toll roads. Tabulation summary required on all projects. For NEW plaza construction, see item 735-74-AA.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
</table>

---

Details and Structure: Items 700 to 799
**Forms**

Design: SHTabQuantLS

Construction: Refer to Comp Book

**Documentation**

Design: Use a quantity of 1. No form required. Locate or define the scope of work involved on the plans.

Construction: Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**

PPM Chapter

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

---

**TRNS*PORT Category (DRAFT FIELD):** 0800 Architectural

**Struct.** 735- 88- AA

TOLL PLAZA MODIFY EXISTING

LS/LS

AA =

blank (single location)

1 (Location 1)

2 (Location 2)

3 (Location 3)

4 (Location 4)

5 (Location 5)

6 (Location 6)

7 (Location 7)

8 (Location 8)

9 (Location 9)

10 (Location 10)

11 (Location 11)

12 (Location 12)

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0735 88</td>
<td>TOLL PLAZA MODIFY EXISTING</td>
<td>LS</td>
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<td>1/1/2007</td>
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<td>$2,240,360.34</td>
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<tr>
<td>0735 88 1</td>
<td>TOLL PLAZA MODIFY EXISTING, LOCATION 1</td>
<td>LS</td>
<td>T</td>
<td>1/1/2008</td>
<td></td>
<td>$1,000,000.00</td>
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<tr>
<td>0735 88 2</td>
<td>TOLL PLAZA MODIFY EXISTING, LOCATION 2</td>
<td>LS</td>
<td>T</td>
<td>1/1/2008</td>
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<td>$1,000,000.00</td>
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</table>

**735- 89-**

AUTOMATIC WINDSHIELD WASHER

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA</td>
<td>Each</td>
<td>no</td>
</tr>
</tbody>
</table>

**Notes**

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

Required

Design: SHTabQuant

Recommended: COMP 700-050-03

Details and Structure: Items 700 to 799
Standards
Specifications

Struct.  735- 89- AUTOMATIC WINDSHIELD WASHER EA

Notes
Plan Detail and/or Tech Spec Required

Status
Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Documentation

PPM Chapter
Other
Standards
Specifications

Plan Detail and/or Tech Spec Required
Prep & Doc Manual Chapter(s)  7, 13

References

Prep & Doc Manual Chapter(s)  7, 13

TRNS*PORT Category (DRAFT FIELD):  0200 Roadway

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

736- 72- AA UTILITY RELOCATION- WATER

Unit  LS/LS  Accuracy  Lump Sum  PlanQuantity?  yes

Notes

Details

Related Items  Required  Recommended
Forms  Design  SHTabQuantLS  COMP 700-050-05
Construction  Refer to Comp Book

Documentation

Design  Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction  Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter
Other
Standards
Specifications

Prep & Doc Manual Chapter(s)  7, 13

TRNS*PORT Category (DRAFT FIELD):  0200 Roadway

Status

Struct.  736- 72- AA UTILITY RELOCATION- WATER LS/LS

AA =
11 (Permanent)
12 (Temporary)

Notes

Details and Structure: Items 700 to 799
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### RAILROAD TRACK WORK

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS/LS</td>
<td>Lump Sum</td>
<td>no</td>
</tr>
</tbody>
</table>

**Notes**

Tabulation summary required on all projects.

**Details**

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
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<tbody>
<tr>
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<td>SHTabQuantLS COMP 700-050-05</td>
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<td>Construction</td>
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**Documentation**

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<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
</tbody>
</table>

**References**

- PPM Chapter
- Other
- Standards
- Specifications

**Prep & Doc Manual Chapter(s)** 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

**Struct.** 736-73-1 RAILROAD TRACK WORK LS/LS

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### RAILROAD TURNOUT AND CROSSOVER

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA</td>
<td>Each</td>
<td>no</td>
</tr>
</tbody>
</table>

**Notes**

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>COMP 700-050-03</td>
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</table>

**Documentation**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
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<tr>
<th>Unit</th>
<th>EA</th>
<th>Accuracy</th>
<th>Plan Quantity?</th>
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**Details**
For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

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<tr>
<th>Forms</th>
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<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-03</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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**Documentation**

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<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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**References**

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Other</th>
<th>Standards</th>
<th>Specifications</th>
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Plan Detail and/or Tech Spec Required

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Unit</th>
<th>EA</th>
<th>Accuracy</th>
<th>Plan Quantity?</th>
<th>no</th>
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**Details**

<table>
<thead>
<tr>
<th>Unit</th>
<th>EA</th>
<th>Accuracy</th>
<th>Plan Quantity?</th>
<th>no</th>
</tr>
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**Related Items**

<table>
<thead>
<tr>
<th>Forms</th>
<th>Required</th>
<th>Recommended</th>
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<tr>
<td>Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-03</td>
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<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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**Documentation**

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<tr>
<td>Construction</td>
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**References**

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Other</th>
<th>Standards</th>
<th>Specifications</th>
</tr>
</thead>
</table>

Plan Detail and/or Tech Spec Required
### Notes
This item is intended to be used for verification of utility locations designated in the plans, when necessary to specifically identify a location. This item is not to be used for incidental work covered by 7-11 of the specifications.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td>Design</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
</tr>
<tr>
<td>Documentation</td>
<td>Design</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
</tr>
</tbody>
</table>

### References

- PPM Chapter 737-71- A
- Other

### Standards

- Specifications

### Plan Detail and/or Tech Spec Required

- Prep & Doc Manual Chapter(s) 6, 7, 13

### TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

<table>
<thead>
<tr>
<th>Struct.</th>
<th>737-70- A</th>
<th>UTILITY LOCATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>A =</td>
<td></td>
<td>EA</td>
</tr>
<tr>
<td>1 (Underground)</td>
<td>0737 70 1</td>
<td>UTILITY LOCATE, UNDERGROUND</td>
</tr>
<tr>
<td>2 (Under Pavement)</td>
<td></td>
<td>EA T 1/1/2007 $147.64</td>
</tr>
<tr>
<td>3 (Electronic - Horizontal)</td>
<td></td>
<td>T 1/1/2007</td>
</tr>
<tr>
<td>4 (Underwater)</td>
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<td>$147.64</td>
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### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0737 70 1</td>
<td>UTILITY LOCATE, UNDERGROUND</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
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<td>$147.64</td>
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<tr>
<td>737-71- A</td>
<td>ELECTRONIC UTILITY DESIGNATE</td>
<td>LF; M1</td>
<td>Linear Foot; 10th of a Meter</td>
<td>no</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

This item is intended to be used for verification/designating/marking of utility locations designated in the plans. Marker requirements to be provided by designer for specifications. Pay item not intended for searching unknown conditions. This item is not to be used for incidental work covered by 7-11 of the specifications.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of...
payment are available in the contract documents to clearly define the work to be completed for payment under this item.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
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</thead>
<tbody>
<tr>
<td>Forms</td>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
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<td>Documentation</td>
<td>Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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</table>

<table>
<thead>
<tr>
<th>References</th>
<th>PPM Chapter</th>
<th>Other</th>
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<tr>
<td>Standards</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specifications</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. 737-71- A ELECTRONIC UTILITY DESIGNATE LF

A =
1 (Underground)
2 (Under Pavement)
3 (Electronic - Horizontal)
4 (Underwater)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>740-71-ABC</th>
<th>WALL</th>
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</thead>
<tbody>
<tr>
<td>Unit</td>
<td>LF; M1</td>
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<tr>
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<td>Linear Foot; 10th of a Meter</td>
</tr>
<tr>
<td>PlanQuantity?</td>
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Notes

Details

<table>
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<tr>
<td>Forms</td>
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<td>Construction</td>
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<th>References</th>
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</table>

Prep & Doc Manual Chapter(s) 7, 13
**Topics No. 600-000-002**  
Basis of Estimates  

**2009 Edition**  
October 6, 2008

---

**TRNS*PORT Category (DRAFT FIELD):** 0800 Architectural

**Status**

**Struct.** 740-71-ABC  
- WALL  
  - **A** = Operation  
    - 1 (Furnish & Install)  
    - 2 (Furnish)  
    - 3 (Install)  
    - 4 (Removal)  
    - 5 (Rehab) LS, BC=00  
  - **B** = Material  
    - 1 (Drywall)  
    - 2 (Panel Wall)  
    - 3 (Block Wall)  
    - 4 (Other)  
  - **C** = Height  
    - 1 (8’)  
    - 2 (10’)  
    - 3 (12’)  
    - 4 (Other)

---

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
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<tr>
<td>0740</td>
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**741-70-ABC** TRAFFIC MONITORING SITE, VEHICLE SENSOR-CLASS II

- **Unit** EA  
- **Accuracy** Each  
- **Plan Quantity?** no

---

**Notes**

**Details**  
Refer to Specifications for use and application.

**Related Items**

**Forms**

- **Required**  
  - Design  
  - Construction

- **Recommended**  
  - Design  
  - Construction

**Documentation**

- **Design**  
  - Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

- **Construction**  
  - Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**Prep & Doc Manual Chapter(s)** 7, 13

---

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

**Struct.** 741-70-ABC  
- TRAFFIC MONITORING SITE, VEHICLE SENSOR-CLASS II  
  - **A** = Operation

---

Details and Structure: Items 700 to 799
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Modify)

B = Vehicle Sensor Type
1 (Type I)
2 (Type II)

C = Sensor Length
1 (Half Lane Width)
2 (Full Lane Width)
3 (Non-Intrusive)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
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742- 70- AB TRAFFIC MONITORING SITE, WEIGH-IN-MOTION ELECTRONICS ASSEMBLY

Notes

Details

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
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<tbody>
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<td>Design</td>
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</tr>
<tr>
<td>Construction</td>
<td>COMP 700-050-03</td>
</tr>
<tr>
<td></td>
<td>Refer to Comp Book</td>
</tr>
</tbody>
</table>

Documentation

| Design         | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. |
| Construction   | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

References

<table>
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<tr>
<th>PPM Chapter</th>
<th>Other</th>
<th>Standards</th>
<th>Specifications</th>
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<td>Plan Detail and/or Tech Spec Required</td>
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Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. 742- 70- AB TRAFFIC MONITORING SITE, WEIGH-IN-MOTION ELECTRONICS ASSEMBLY

Details and Structure: Items 700 to 799
A = Operation  
1 (Furnish & Install)  
2 (Furnish)  
3 (Install)  
4 (Remove)  

B = Weight Sensor Type  
1 (Bending Plate)  
2 (Piezoelectric)  
3 (Capacitance)  
4 (Combined Types)  
5 (Other)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<thead>
<tr>
<th>Unit</th>
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<td>743-70-AB</td>
<td>TRAFFIC MONITORING SITE, VEHICLE SPEED/CLASSIFICATION UNIT</td>
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</table>

Notes

Details
Refer to Specifications for use and application.

Related Items

Forms

Required

Recommended

Design
SHTabQuant

COMP 700-050-03

Construction
Refer to Comp Book

Documentation

Design
Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct.  743-70-AB TRAFFIC MONITORING SITE, VEHICLE SPEED/CLASSIFICATION UNIT AS

A = Operation  
1 (Furnish & Install)  
2 (Furnish)  
3 (Install)  
4 (Modify)  

B = Assembly Component  
1 (Electronics Unit With Equipment Cable)  
2 (Electronics Unit Only)  

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
## Basis of Estimates

**2009 Edition**

### October 6, 2008

<table>
<thead>
<tr>
<th>Item</th>
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<th>LRE Ref Price</th>
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<td>TMS VEHICLE SPEED/CLASS. UNIT, F&amp;I, ELECTRONICS UNIT WITH EQUIPMENT CABLE</td>
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### 744-70-AB TRAFFIC MONITORING SITE, SOLAR POWER UNIT

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<th>Assembly</th>
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**Notes**

Refer to Specifications for use and application.

**Related Items**

**Required**

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<th>Forms</th>
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<th>COMP 700-050-03</th>
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</table>

**Recommended**

Refer to Comp Book

**Documentation**

**Design**

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Construction**

Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**Notes**

Details and Structure: Items 700 to 799

---

### TRNS*PORT Category (DRAFT FIELD):

0200 Roadway

## Status

### Struct. 744-70-AB TRAFFIC MONITORING SITE, SOLAR POWER UNIT

A = Operation

1 (Furnish & Install)

2 (Furnish)

3 (Install)

B = Mounting

1 (New Pole)

2 (Existing Pole)

---

### The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Item</th>
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### 745-70-AB TRAFFIC MONITORING SITE, INDUCTIVE LOOP ASSEMBLY

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<th>Assembly</th>
<th>PlanQuantity?</th>
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**Notes**

Refer to Specifications for use and application.

**Related Items**

**Required**

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<th>Forms</th>
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<th>COMP 700-050-03</th>
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**Recommended**

Refer to Comp Book

---

Details and Structure: Items 700 to 799
Standards
Specifications

Struct. 745-70-AB TRAFFIC MONITORING SITE, INDUCTIVE LOOP ASSEMBLY

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

B = Number Of Loops Per Lane
1 (One)
2 (Two)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<tr>
<th>Item</th>
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746-7A-BCD TRAFFIC MONITORING SITE, CABINET

Notes

Details

Refer to Specifications for use and application.

Related Items

Forms

Required
Design
SHTabQuant

Recommended
COMP 700-050-03

Documentation

Design
Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction
Record final quantity on the tabulation sheet (plans) or computation form (comp book).
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Notes: Existing Specs apply for A=1-3; Plan Detail and/or Tech Spec Required for A=4 or 5

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
### 747-70-AB TRAFFIC MONITORING SITE, MODEM

<table>
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<td><strong>Related Items</strong></td>
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<td>Recommended</td>
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<td>Forms</td>
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<td>Refer to Comp Book</td>
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<td>Specifications</td>
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<td>7, 13</td>
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</table>

**TRNS**PORT Category (DRAFT FIELD): 0200 Roadway

### Status

**Struct.** 747-70-AB TRAFFIC MONITORING SITE, MODEM AS

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Modify)
B = Item
1 (Modem)

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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<th>Valid Date</th>
<th>Obsolete Date</th>
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**Details and Structure:** Items 700 to 799
**750- 1- AB**  
**ARCHITECTURAL- BUILDING**

<table>
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<tr>
<th>Unit</th>
<th>LS/SF; LS/M2</th>
<th>Accuracy</th>
<th>Lump Sum (Square Foot);  Plan Quantity? no</th>
<th>Lump Sum (Square Meter)</th>
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</table>

**Notes**

- Effective January 2007; replaces several Architectural Items.
- For all new/major rehab Architectural work. Includes all work (building, plumbing, electrical, water, HVAC, etc.) for a complete building. Tech Specs must detail all items, construction, and materials.
- For limited incidental work, see 751 items.
- Do not use for movable bridge structures; see 508 items and/or contact Movable Bridge Section. Do not use for Signing, Lighting, ITS, or Signalization.
- For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
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<tbody>
<tr>
<td>Forms</td>
<td>Design SHTabQuantLS COMP 700-050-05</td>
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<td>Design</td>
<td>Refer to Comp Book</td>
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<td>Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
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</table>

**References**

- PPM Chapter
- Other
- Standards
- Specifications

**Plan Detail and/or Tech Spec Required**

**Prep & Doc Manual Chapter(s)**

**TRNS*PORT Category (DRAFT FIELD):** 0800 Architectural

**Status**

<table>
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<th>Struct.</th>
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<td>A= Operation</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>1 (New)</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>5 (Rehab)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 (Remove)</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>B= Facility</td>
<td></td>
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</tr>
<tr>
<td>1 (Rest Area)</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>2 (Welcome Center)</td>
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<td>3 (Weigh Station)</td>
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<td>4 (Maintenance Facility Building)</td>
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<td>6 (Parking Garage)</td>
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<td>7 (Storage/Mechanical)</td>
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<td>9 (Other building)*</td>
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<td>*Contact Architectural Section for approval</td>
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**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*
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**751- 2- ARCHITECTURAL- ELECTRICAL/POWER**

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**Notes**

**Effective January 2007**

For use on Architectural projects only. Not to be used with 750-1 (New/Rehab building) item.

Includes all work, hardware (lighting fixtures, generator, etc.), and materials for a complete electrical system, as detailed in the plans and/or tech specs.

Do not use for Signing, Lighting, ITS, or Signalization.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

**Forms**

**Design**

SHTabQuantLS

COMP 700-050-05

**Construction**

Refer to Comp Book

**Documentation**

**Design**

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Construction**

Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

**Prep & Doc Manual Chapter(s)**

**TRNS*PORT Category (DRAFT FIELD):** 0800 Architectural

**Status**

**Struct.** 751- 2- ARCHITECTURAL- ELECTRICAL/POWER LS/LS

**Notes**

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Details and Structure: Items 700 to 799
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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**751- 3-**  ARCHITECTURAL - TELEPHONE/COMMUNICATION

**Unit**  LS/LS  **Accuracy**  Lump Sum  **PlanQuantity?**  no

**Notes**  Effective January 2007

**Details**  For use on Architectural projects only. Not to be used with 750-1 (New/Rehab building) item.

DO NOT USE FOR: Signing, Lighting, ITS, or Signalization.

Includes all work, hardware, and materials for a complete Telephone/Communication system, as detailed in the plans and/or tech specs. Communications may include cable and/or fiber optic connections necessary for a complete system.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

**Required**

- **Design**  SHTabQuantLS  COMP 700-050-05

- **Construction**  Refer to Comp Book

**Recommended**

- **Design**  Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

- **Construction**  Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- **PPM Chapter**
- **Other**

- **Standards**

- **Specifications**

- **Plan Detail and/or Tech Spec Required**

**Prep & Doc Manual Chapter(s)**

**TRNS*PORT Category (DRAFT FIELD):**  0800  Architectural

---

**751- 4-**  ARCHITECTURAL - WATER/SEWER INTERIOR

**Unit**  LS/LS  **Accuracy**  Lump Sum  **PlanQuantity?**  no

**Notes**  Effective January 2007

**Details**  For use on Architectural projects only. Not to be used with 750-1 (New/Rehab building) item.

Includes all work, hardware (sinks, toilets, water fountains), and materials for a complete water/sewer system for the interior of a building, as detailed in the plans and/or tech specs.
For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

<table>
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<tr>
<th>Related Items</th>
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<tr>
<td>Forms</td>
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**References**

- PPM Chapter
- Other Standards
- Specifications

**Plan Detail and/or Tech Spec Required**

**Prep & Doc Manual Chapter(s)**

**TRNSPORT Category (DRAFT FIELD):**

0800 Architectural

**Status**

751-4-

**ARCHITECTURAL- WATER/SEWER INTERIOR**

**Unit**

- LS/LS

**Accuracy**

- Lump Sum

**Plan Quantity?**

- no

**Notes**

Effective January 2007

For use on Architectural projects only. May be used with 750-1 (New/Rehab building) item for major items of work. For minor water/sewer work associated with building, include with 750-1 item.

Includes all work, hardware (lift station, treatment plant, etc.) for a complete water/sewer system for the exterior of a building, as detailed in the plans and/or tech specs.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

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<td>Construction</td>
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**References**

- PPM Chapter
- Other
Standards
Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status

Struct. 751-5- ARCHITECTURAL- SANITARY SEWER/SEWAGE TREATMENT LS/LS

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

---

751-6- ARCHITECTURAL- HVAC

Unit LS/LS Accuracy Lump Sum PlanQuantity? no

Notes Effective January 2007

Details For use on Architectural projects only. Not to be used with 750-1 (New/Rehab building) item.
Includes all work, hardware (AC, ventilation, and/or heating units), and materials for a complete HVAC system, as detailed in the plans and/or tech specs.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

Required Recommended

Forms Design SHTabQuantLS COMP 700-050-05
Construction Refer to Comp Book

Documentation Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter
Other
Standards
Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status

Struct. 751-6- ARCHITECTURAL- HVAC LS/LS

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
### ARCHITECTURAL- ASBESTOS ABATEMENT

**Unit**: LS/LS  
**Accuracy**: Lump Sum  
**PlanQuantity?**: no

**Notes**

Effective January 2007; contact Architectural Section before opening, due to possible CARS contract.

**Details**

Check for possible CARS contract prior to using this item.

For use on Architectural projects only. Not to be used with 750-1 (New/Rehab building) item.

Includes all work, hardware, and materials for Asbestos Abatement, as detailed in the plans and/or tech specs.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

**Forms**
- **Required**: SHTabQuantLS  
- **Recommended**: COMP 700-050-05

**Documentation**
- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**References**
- PPM Chapter
- Other

**Plan Detail and/or Tech Spec Required**

**Prep & Doc Manual Chapter(s)**

**TRNS*PORT Category (DRAFT FIELD):** 0800 Architectural

**Status**

**Struct.**: 751-10- ARCHITECTURAL- ASBESTOS ABATEMENT LS/LS

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### ARCHITECTURAL- SPECIAL

**Unit**: LS/LS  
**Accuracy**: Plan  
**PlanQuantity?**: no

**Notes**

Contact State Structures Design Office and/or State Architectural Section prior to use in any contract

**Details**

For use on Structural/Architectural plans only.

This item is intended to cover Special Architectural elements not included with "Buildings". Structural/Architectural details must be included in the plans or specifications.

**Related Items**

**Forms**
- **Required**: Design  
- **Recommended**: Construction

**Documentation**
- **Design**

**Prep & Doc Manual Chapter(s)**

**TRNS*PORT Category (DRAFT FIELD):** 0800 Architectural

**Status**

**Struct.**: 751-11- A ARCHITECTURAL- SPECIAL LS/LS

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

751-20- A ARCHITECTURAL- LIGHTNING PROTECTION SYSTEM

| Unit      | LS/LS | Accuracy | Lump Sum | PlanQuantity? | no |

Notes

Effective January 2007

Details

For use on Architectural projects only. Not to be used with 750-1 (New/Rehab building) item.

For movable bridge structures, refer to Section 508 items. For all other applications, lightning protection is incidental to the item being protected. Do not use for Signing, Lighting, ITS, or Signalization.

*********************************

Includes all work, hardware, and materials for a complete lightning protection system, as detailed in the plans and/or tech specs.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

Required

Design

SHTabQuantLS

Recommended

Construction

COMP 700-050-05

Forms

Refer to Comp Book

Documentation

Design

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction

Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural
Struct.  751- 20-  A ARCHITECTURAL- LIGHTNING PROTECTION SYSTEM LS/LS

A= Type of System
1 (Point Discharge)
2 (Static Charge Dissipation)
3 (Surge Suppression)

Notes
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<tr>
<th>Item</th>
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751- 30-  A ARCHITECTURAL- PICNIC PAVILION

Notes
Effective January 2007

Details
For use on Architectural projects only.
Size (small/large) and details as shown on Design Standards.
Non-standard sizes must be approved by the Architectural Section, with a new pay item request.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items
- Required
  - Design: SHTabQuant
  - Construction: Refer to Comp Book
- Recommended
  - Design: COMP 700-050-03
  - Construction: Refer to Comp Book

References
- PPM Chapter
- Other
- Standards: Index No. 530
- Specifications
- Plan Detail and/or Tech Spec Required

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status
Struct.  751- 30-  A ARCHITECTURAL- PICNIC PAVILION EA

A= Size, per index
1 (Small)
2 (Large)
### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Item</th>
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**764- 1-** BOAT DOCK- FLOATING

**Unit** SF; M2  **Accuracy** Square Foot; 10th of a Square Meter  **PlanQuantity?** no

**Notes**

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

**Required**

Design: SHTabQuant

**Recommended**

COMP 700-050-01

**Forms**

Design: Refer to Comp Book

**Documentation**

Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0800 Architectural

**Status**

Struct. 764- 1- BOAT DOCK- FLOATING SF

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

**764- 2-** BOAT DOCK- GANGWAY

**Unit** SF; M2  **Accuracy** Square Foot; 10th of a Square Meter  **PlanQuantity?** no

**Notes**

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

**Required**

Design: SHTabQuant

**Recommended**

COMP 700-050-01

**Forms**

Design: Refer to Comp Book

**Documentation**

Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0800 Architectural

**Details**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
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For use at weigh/inspection stations only.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

### Related Items

#### Forms
- **Required**: SHTabQuant
- **Recommended**: COMP 700-050-03

#### Documentation
- **Design**: Refer to Comp Book
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References
- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**

**Plan Detail and/or Tech Spec Required**

**Prep & Doc Manual Chapter(s)**: 7, 13

**TRNS*PORT Category (DRAFT FIELD)**: 0800 Architectural

**Status**

**Struct.**: 770-75- A  
**PRE-PASS SENSOR**  
**EA**
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### 770-78- STATIC/WEIGH-IN-MOTION SCALE SYSTEM

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<th>Accuracy</th>
<th>Each</th>
<th>Plan Quantity?</th>
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</tr>
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</table>

**Notes**

The designer should detail all requirements and components to be included in the system.

**Details**

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

- **Required**
  - Design: SHTabQuant
  - Construction: Refer to Comp Book

- **Recommended**
  - Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
  - Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- PPM Chapter
- Other Standards
- Specifications

*Plan Detail and/or Tech Spec Required*

**Prep & Doc Manual Chapter(s)**: 7, 13

---

**TRNS*PORT Category (DRAFT FIELD):** 0800 Architectural

**Status**: Block Pending

**Struct.** 770-78- STATIC/WEIGH-IN-MOTION SCALE SYSTEM EA

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The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Item</th>
<th>Description</th>
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<th>TSP/Detail</th>
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<th>Obsolete Date</th>
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### 770-79- WEIGH STATION

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<th>Accuracy</th>
<th>Lump Sum</th>
<th>Plan Quantity?</th>
<th>yes</th>
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**Notes**

The designer should detail all requirements and components to be included in the station.

**Details**

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

---
Standards
Specifications

Struct.  770- 79- WEIGH STATION LS/LS

Notes

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)  7, 13

TRNS*PORT Category (DRAFT FIELD):  0800 Architectural

Status  Block Pending

Struct.  770- 79- WEIGH STATION LS/LS

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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775- 70- SCALE PIT STRUCTURES

Notes

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

<table>
<thead>
<tr>
<th>Forms</th>
<th>Design</th>
<th>SHTabQuantLS</th>
<th>COMP 700-050-05</th>
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<td>Design</td>
<td>Refer to Comp Book</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Construction</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Documentation

Design

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction

Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD):  0800 Architectural

Status  Inactive Structure
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

**775-72- SCALE FOUNDATION**

<table>
<thead>
<tr>
<th>Unit</th>
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<th>Accuracy</th>
<th>Each</th>
<th>PlanQuantity?</th>
<th>no</th>
</tr>
</thead>
</table>

**Notes**

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Required**

- **Design**: SHTabQuant
- **Construction**: Refer to Comp Book

**Recommended**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**

**Prep & Doc Manual Chapter(s)**

**TRNS*PORT Category (DRAFT FIELD):** 0800 Architectural

**Status**

Inactive Structure

**775-70- SCALE PIT STRUCTURES**

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

**780-1-AB ITS ELECTRICAL POWER**

<table>
<thead>
<tr>
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<th>Mixed</th>
<th>Accuracy</th>
<th>Refer to item structure and details</th>
<th>PlanQuantity?</th>
<th>no</th>
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</thead>
</table>

**Notes**

For use in providing electrical power service to ITS devices in the field. Installations of service assemblies can be either for overhead or underground service, in accordance with the details in the plans, or in Index 17736 of the Design Standards. A service assembly may include a weather head, conduit, service wire, a meter base, service disconnect, and a transient protection device.

**Required**

- **Design**: SHTabQuant
- **Construction**: Refer to Comp Book

**Recommended**

- **Design**: COMP 700-050-03

**Related Items**

**Prep & Doc Manual Chapter(s)**

Details and Structure: Items 700 to 799
### Construction

Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References

**PPM Chapter**
Vol 1, Chapter 7

**Other**

**Standards**

**Specifications**

**Prep & Doc Manual Chapter(s)**

---

**TRNS*PORT Category (DRAFT FIELD):**

0550 ITS

**Status**

**Struct.** 780-1-AB **ITS ELECTRICAL POWER** **Mixed**

- **A= Operation**
  1. Furnish & Install
  2. Furnish
  3. Install
  4. Relocate
  5. Adjust & Modify
  6. Remove and Dispose - Contractor takes ownership

- **B= Type**
  1. Service AS
  2. Service Wire LF
  3. Service Disconnect EA

### Notes

Note: Mile (kilometer) units only valid with 6" or 8" stripes

Note: Accuracy for LF items is per Linear Foot, Mile items to 1/1000th of a mile, and Square Foot items to the nearest square foot.

---

**The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
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<td>0780 1 13</td>
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<tr>
<td>0780 1 41</td>
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<td>0780 1 42</td>
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<td>0780 1 51</td>
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<td>1/1/2007</td>
<td></td>
<td>$5.37</td>
</tr>
<tr>
<td>0780 1 61</td>
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<td>LF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$800.00</td>
</tr>
</tbody>
</table>
For installation along the roadway for the purpose of broadcasting traffic advisories to vehicle radios. The HAR installation consists of a radio antenna mounted on a pole, a control cabinet containing the transmitter, power supply, communication hardware, and conduit. The system includes a roadside HAR sign with flashing beacons to alert motorists that a message is being broadcast.

Transmitter wattage, siting information, and installation details should be noted in the plans. For temporary MAS systems during construction, refer to Maintenance Of Traffic, Section 102 items.

**Notes**

- Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- Record final quantity on the tabulation sheet (plans) or computation form (comp book).
- Refer to Comp Book

**TRNS*PORT Category (DRAFT FIELD):**

0550 ITS

**Status**

- **A= Operation**
  1 (Furnish & Install)
  2 (Furnish)
  3 (Install)
  4 (Relocate)
  5 (Adjust /Modify)
- **B= Power Type**
  1 (Solar)
  2 (AC)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*
## Item Description

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0781 2 12</td>
<td>ITS HIGHWAY ADVISORY RADIO, F&amp;I, AC POWER</td>
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<td>7/1/2006</td>
<td>7/1/2006</td>
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<td>0781 2 41</td>
<td>ITS HIGHWAY ADVISORY RADIO, RELOCATE, SOLAR POWER</td>
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<td>7/1/2006</td>
<td>7/1/2006</td>
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<td>0781 2 42</td>
<td>ITS HIGHWAY ADVISORY RADIO, RELOCATE, AC</td>
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<td>$4,500.00</td>
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</tbody>
</table>

### 781- 3-ABC ITS ROAD WEATHER INFORMATION SYSTEM

#### Unit
EA

#### Accuracy
Each

#### PlanQuantity?
no

#### Notes
Effective July 07 Letting.

#### Details
For installation at the roadside, on bridges or other new or existing structures to provide real-time weather data on temperature, humidity, precipitation, wind speed, and direction, and visibility. The RWIS is furnished with the weather instruments necessary to produce the readings desired and collects, stores, and processes the data for transmittal to the transportation management center (TMS). An RWIS with one central monitoring site can serve multiple field installations. The weather sensors are typically mounted on either a dedicated RWIS tower or existing structures.

### Related Items

#### Required
- **Forms**
  - Design: SHTabQuant
  - Construction: Refer to Comp Book

#### Recommended
- **Design**
  - Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**
  - Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References
- **PPM Chapter**
  - Vol 1, Chapter 7
- **Other Standards**
- **Specifications**

### Prep & Doc Manual Chapter(s)

### TRNS*PORT Category (DRAFT FIELD):
- 0550 ITS

### Status
#### Struct.
- **781- 3-ABC** ITS ROAD WEATHER INFORMATION SYSTEM EA

#### Notes
Details and Structure: Items 700 to 799
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>781-1A-BCD</th>
<th>ITS DYNAMIC MESSAGE SIGN</th>
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<tbody>
<tr>
<td><strong>Unit</strong></td>
<td>EA</td>
</tr>
<tr>
<td><strong>Accuracy</strong></td>
<td>Each</td>
</tr>
<tr>
<td><strong>Plan</strong></td>
<td>Quantity? no</td>
</tr>
</tbody>
</table>

**Notes**
For installation along interstate, expressway, or limited access corridors for communicating traffic advisories to motorists.
Structure Types: Mid-span- across one direction of travel, full span- across all lanes, or cantilever- at the roadside.
Sign Type: Front display surface, with either line matrix- pixels arranged in rows, or full matrix- pixels fully covering the surface.
Designer should note the size of sign, structure, and installation details in the plans.

**Details**
NOTE: Furnish & Install includes the furnishing of both the truss/structure and sign
Furnish: Furnish the sign only (Signs are available on State purchase contracts)
Install: Install sign on existing structure
Furnish & Install structure, Install Sign: When sign is provided by FDOT (may have been purchased on state contract, or relocated from another location). Contractor must provide/construct truss, install sign.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Forms</strong></td>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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</tr>
<tr>
<td><strong>Documentation</strong></td>
<td>Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
</tr>
<tr>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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</tbody>
</table>

**References**
PPM Chapter Vol 1, Chapter 7
Other Standards
Specifications
Prep & Doc Manual Chapter(s)

**TRNS***PORT Category (DRAFT FIELD):** 0550 ITS

**Status**
Struct. 781-1A-BCD ITS DYNAMIC MESSAGE SIGN EA

A= Operation
1 (Furnish & Install)
2 (Furnish) *
3 (Install) *Sign on existing structure
4 (Relocate) *Sign to another existing structure
5 (Adjust /Modify)
9 (Furnish & Install structure; Install Sign)

B=Sign Type
1 (LED Line Matrix)
2 (LED Full Matrix)

C=Sign Support Structure
1 (Mid-span)
2 (Full Span)
3 (Cantilever) D=1, 2, or 3 only
4 (Sign Only) no structure; D=0
D= Horizontal Structure Length
0 (No Structure) when C=4
1 (0' to 40')
2 (41' to 60')
3 (61' to 80')
4 (81' to 100')
5 (101' to 120')
6 (121 to 140')
7 (141 to 161')
8 (161 to 180')
9 (greater than 180')

**Notes**
See detail for Furnish/Install options

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**The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
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<tbody>
<tr>
<td>0781 11213</td>
<td>ITS DYNAMIC MESSAGE SIGN, F&amp;I, LED FULL MATRIX, MID SPAN, TRUSS - 61 - 80'</td>
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<td>0781 11215</td>
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<tr>
<td>0781 11216</td>
<td>ITS DYNAMIC MESSAGE SIGN, F&amp;I, LED FULL MATRIX, MID SPAN, TRUSS - 121 - 140'</td>
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<tr>
<td>0781 11217</td>
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<tr>
<td>0781 11229</td>
<td>ITS DYNAMIC MESSAGE SIGN, F&amp;I, LED FULL MATRIX, FULL SPAN, TRUSS - GREATER THAN 180'</td>
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<td>0781 13216</td>
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<td>0781 13217</td>
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<td>0781 13231</td>
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<td>0781 13232</td>
<td>ITS DYNAMIC MESSAGE SIGN, INSTALL, LED FULL MATRIX, CANTILEVER, TRUSS - 41 - 60'</td>
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<td>0781 19214</td>
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<tr>
<td>0781 19215</td>
<td>ITS DYNAMIC MESSAGE SIGN, F&amp;I TRUSS, INSTALL SIGN, LED FULL MATRIX, MID SPAN, TRUSS - 101 TO 120'</td>
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<td>1/1/2007</td>
<td>$145,000.00</td>
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0781 19228  ITS DYNAMIC MESSAGE SIGN, F&I TRUSS, INSTALL SIGN, LED FULL MATRIX, FULL SPAN, TRUSS - 161 TO 180'
EA 1/1/2007 $175,000.00

0781 19229  ITS DYNAMIC MESSAGE SIGN, F&I TRUSS, INSTALL SIGN, LED FULL MATRIX, FULL SPAN, TRUSS - GREATER THAN 180'
EA 1/1/2007 $230,000.00

0781 19231  ITS DYNAMIC MESSAGE SIGN, F&I TRUSS, INSTALL SIGN, LED FULL MATRIX, CANTILEVER, TRUSS - 0-40'
EA 1/1/2007 $80,000.00

0781 19232  ITS DYNAMIC MESSAGE SIGN, F&I TRUSS, INSTALL SIGN, LED FULL MATRIX, CANTILEVER, TRUSS - 41 - 60'
EA 1/1/2007 $100,000.00

782- 1- AB  ITS CCTV CAMERA

Unit  EA  Accuracy  Each  PlanQuantity?  no

Notes
Details  For installations along the roadway or intersections, to provide video of traffic movements. Includes mounting hardware, cabling, and power supply. Cameras can be dome style enclosures, or "barrel type" units with external positioners. Either unit can be pressurized to reduce the effects of moisture, dust, and other contaminants.

Related Items  Required  Recommended

Forms  Design  SHTabQuant  COMP 700-050-03
Construction  Refer to Comp Book

Documentation  Design  Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction  Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References  PPM Chapter  Vol 1, Chapter 7
Other
Standards
Specifications
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD):  0550  ITS

Status  782- 1- AB  ITS CCTV CAMERA  EA
A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)
B= Type
1 (Dome enclosure, pressurized)
2 (External positioner, pressurized)
3 (Dome enclosure, non-pressurized)
4 (External positioner, non-pressurized)

Details and Structure: Items 700 to 799  Page 123 of 148
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tr>
<td>0782 1 11</td>
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<td>1/1/2007</td>
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<td>$4,155.00</td>
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<tr>
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782- 2-ABC  ITS VIDEO DISPLAY

Notes

For use in the Transportation Management Center (TMC) to display video from the CCTV cameras in the field, and for displaying maps, graphics, traffic counts, and other visuals. Video Display cubes can be stacked to form a wall display. Other monitors are positioned in the room or on the operator's desktops for control purposes. The video controller receives the incoming video signals and arranges them on the various displays. Display types, room layout, and installation details must be noted in the plans.

Required

Forms
Design SHTabQuant
Construction Refer to Comp Book

Documentation
Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References
PPM Chapter
Other
Standards
Specifications
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0550 ITS

Structure

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)
B= Component

Notes and Structure: Items 700 to 799
1 (Cube for video wall) C=2
2 (Workstation) C=1 or 3
3 (Monitor)
4 (Controller) C=0

C= Technology
1 (LCD- Liquid Crystal Display)
2 (Rear Projection)
3 (CRT- Cathode Ray Tube)
4 (Special)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
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<td>0782 2121</td>
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<td>0782 2131</td>
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<td>0782 2140</td>
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</tbody>
</table>

782- 3- A  ITS REST AREA INFORMATION SYSTEMS

Unit: EA  Accuracy: Each  PlanQuantity?: no

Notes

Details
For use in highway rest areas for the display of traffic conditions and other information for the traveling public. The system is rack mounted and has the necessary processing power, memory, network connection, and video output capability to provide images for LCD displays in the lobby or concourse area of rest plazas.

Related Items

Required
Design: SHTabQuant  Construction: COMP 700-050-03

Recommended
Design: Refer to Comp Book  Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References
PPM Chapter  Other
Standards  Specifications
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0550  ITS

Status
Struct. 782- 3- A  ITS REST AREA INFORMATION SYSTEMS  EA

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust & Modify)
### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<table>
<thead>
<tr>
<th>783- 1-ABC</th>
<th>ITS FIBER OPTIC CABLE</th>
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<tr>
<td><strong>Unit</strong></td>
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<tr>
<td><strong>Accuracy</strong></td>
<td>Linear Foot; 10th of a Meter</td>
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<tr>
<td><strong>PlanQuantity?</strong></td>
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</table>

**Notes**

For use in fiber optic networks that support ITS devices and their connection to communication hubs, transportation management centers, and related facilities. Use "overhead" for installations involving bridges and other aboveground structures. Use "underground" for cable placed in buried conduit along the roadside.

******

REMOVE (A=6): For cable to be removed, detail location and size of cable (approximate number of fibers) to be removed. Contractor takes ownership (remove & dispose), unless otherwise indicated in the plans or specs.

REMOVE & STOCKPILE (A=7): For cable to be removed, detail location and size of cable (approximate number of fibers) to be removed. FDOT retains ownership of cable. Detail in plans location for stockpile, i.e. Maintenance yard.

**Related Items**

**Forms**

- **Required**
  - **Design**: SHTabQuant
  - **Construction**: Refer to Comp Book

- **Recommended**
  - **Design**: COMP 700-050-03
  - **Construction**: Refer to Comp Book

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- **PPM Chapter**: Vol 1, Chapter 7
- **Other**

**Standards**

**Specifications**

**Prep & Doc Manual Chapter(s)**

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**TRNS*PORT Category (DRAFT FIELD):** 0550 ITS

**Status**

**Struct.** 783- 1-ABC | ITS FIBER OPTIC CABLE | LF

- **A**= Operation
  - 1 (Furnish & Install)
  - 2 (Furnish)
  - 3 (Install)
  - 4 (Relocate)
  - 5 (Adjust / Modify)
  - 6 (Remove) BC=00
  - 7 (Remove and Stockpile) BC=00

- **B**= Location
  - 1 (Overhead)
  - 2 (Underground)

- **C**= Number of Fibers in Cable
  - 1 (2 to 12)
  - 2 (13 to 48)
  - 3 (49 to 96)
Notes  *Remove item may require plan details and/or tech spec

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<td>1/1/2007</td>
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<td>$2.00</td>
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783-2-AB  ITS FIBER OPTIC CONNECTION

<table>
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<th>Unit</th>
<th>EA</th>
<th>Accuracy</th>
<th>Each</th>
<th>PlanQuantity?</th>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>no</td>
</tr>
</tbody>
</table>

Notes  Details

For use in fiber optic networks where segments of fiber optic cable must be spliced together, or when cables must be terminated at the end of a segment. Note that each
connection involves the fusing of individual optical fibers in a cable. Payment "each" is for each FIBER to be connected. Type of connection must be noted in the plans.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
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<tbody>
<tr>
<td>Design</td>
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<tr>
<td>Construction</td>
<td>COMP 700-050-03</td>
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</tbody>
</table>

**Forms**

- **Design**: Refer to Comp Book
- **Construction**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- PPM Chapter
- Other
- Standards
- Specifications

**Prep & Doc Manual Chapter(s)**

**TRNS*PORT Category (DRAFT FIELD):**

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<th>EA</th>
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<td>A= Operation</td>
<td>3 (Install)</td>
<td>4 (Relocate)</td>
<td>5 (Adjust/Modify)</td>
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<tr>
<td>B= Type</td>
<td>1 (Splice)</td>
<td>2 (Termination)</td>
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**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<tr>
<th>Item</th>
<th>Description</th>
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**783-3-AB**

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<tbody>
<tr>
<td>EA</td>
<td>Each</td>
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</table>

**Notes**

For use in fiber optic networks, where segments of cable must be spliced together. This item includes hardware and incidental materials for splices; payment for splicing.
individual fibers is made under 783-2.

For B=8 (Patch Cord), tech spec needed to describe the patch cord requirements. FO patch cords or Cat5 cables may be considered as incidental to the hardware to be installed. Ensure that the plans/specs clearly define if separate payment will be made for patch cords. Otherwise, payment will be considered as incidental to hardware being installed. When multiple cords/cables are needed, use a tabulation sheet in the plans to clearly identify the number of pairs and length of each cord/cable.

<table>
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<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
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<tr>
<td>Forms Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-03</td>
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<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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**Related Items**

- **Forms**
  - Design: SHTabQuant
  - Construction: Refer to Comp Book

- **Documentation**
  - Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
  - Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

- **References**
  - PPM Chapter
  - Other
  - Standards
  - Specifications

- **Prep & Doc Manual Chapter(s)**

**TRNS^PORT Category (DRAFT FIELD):** 0550 ITS

**Status**

**Struct.** 783-3-AB  ITS FIBER OPTIC CONNECTION HARDWARE  EA

- A= Operation
  - 1 (Furnish & Install)
  - 2 (Furnish)
  - 3 (Install)
  - 4 (Relocate)
  - 5 (Adjust /Modify)
- B=Component
  - 1 (Splice Enclosure)
  - 2 (Splice Tray)
  - 3 (Preterminated Connector Assembly)
  - 4 (Buffer Tube Fan Out Kit)
  - 5 (Patch Panel, Preterminated)
  - 6 (Patch Panel, Field Terminated)
  - 7 (Connector Panel)
  - 8 (Patch Cord)* Tech Spec needed; see BOE detail

**Notes**

*B=8: Tech Spec needed. Coordinate the use of this item with ITS Office.

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
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<th>LRE Ref Price</th>
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</tbody>
</table>

**783- 4- AB  ITS CONDUIT**

**Unit**  LF; M1  **Accuracy**  Linear Foot; 10th of a Meter  **Plan Quantity?**  no

**Notes**  Valid through 6-30-08; replaced by 783-4-1AB

**Details**  For fiber optic cable and ITS devices only.
Underground: to be used when conduit is installed prior to placement of pavement, or where it does not interfere with existing pavement.
Underpavement Sawcut: to be used only when sawcutting is necessary for location under EXISTING PAVEMENT.

NOTE: Per specification, length of conduit includes Electronic Locate system (transmitter and reveiver).

**Related Items**

**Forms**
- **Design**  SHTabQuant
- **Construction**  Refer to Comp Book

**Documentation**
- **Design**  Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**  Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**
- PPM Chapter
- Other
- Standards
- Specifications
- Prep & Doc Manual Chapter(s)
**TRNS*PORT Category (DRAFT FIELD):** 0550  ITS  

**Struct.**  783- 4- AB  ITS CONDUIT  LF

A= Operation
1 (Furnish & Install)
2 (Furnish) B=0
3 (Install)
4 (Relocate)
5 (Adjust /Modify)
6 (Remove and Dispose) B=0

B= Location
1 (Aboveground)
2 (Underground)
3 (Underpavement Sawcut) Note: to be used only when sawcutting is necessary
9 (Special)*

**Notes**  *Special to be used only with approval of the ITS Office
Plan Details and/or Tech Specs needed for Install, Relocate, Adjust/Modify, and Remove items.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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**783- 4-AB  ITS CONDUIT**

**Unit**  LF; M1  **Accuracy**  Linear Foot; 10th of a Meter  **PlanQuantity?**  no

**Notes**  **New Item effective 7-1-08; replaces 783-4-AB**
For fiber optic cable and ITS devices only.
Underground: to be used when conduit is installed prior to placement of pavement, or where it does not interfere with existing pavement.
Underpavement Sawcut: to be used only when sawcutting is necessary for location under EXISTING PAVEMENT.

Note: Specification change effective 7-1-08 letting has separate payment for Electronic Locate Transmitter & Receiver. Refer to specification for payment details.

**Related Items**  **Required**  **Recommended**

**Forms**
Design  SHTabQuant  COMP 700-050-03

**Documentation**
Design  Refer to Comp Book  Locate in plans. Summarize quantities by location on tabulation of quantities

Details and Structure: Items 700 to 799  Page 131 of 148
sheet in the plans, or detail calculations in the computation book.

**Construction**
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**
- PPM Chapter
- Other
- Standards
- Specifications

**Prep & Doc Manual Chapter(s)**

**TRNS*PORT Category (DRAFT FIELD):** 0550 ITS

**Status**

**Struct. 783- 4-1AB**

**ITS CONDUIT**

L = LF

A= Operation
1 (Furnish & Install)
2 (Furnish) B=0
3 (Install)
4 (Relocate)
5 (Adjust /Modify)
6 (Remove and Dispose) B=0

B= Location
1 (Aboveground)
2 (Underground)
3 (Underpavement Sawcut) Note: to be used only when sawcutting is necessary
9 (Special)*

**Notes**

*Special to be used only with approval of the ITS Office
Plan Details and/or Tech Specs needed for Install, Relocate, Adjust/Modify, and Remove items.

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
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<th>Obsolete Date</th>
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<td>0783 4113</td>
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</table>

**783- 5- A**

**ITS PULL BOX FOR FIBER OPTIC**

<table>
<thead>
<tr>
<th>Unit</th>
<th>EA</th>
<th>Accuracy</th>
<th>Each</th>
<th>PlanQuantity?</th>
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</table>

**Notes**

Details

For use in fiber optic networks as an access point for moving cable into position during installation. Refer to specification for size, materials, and other details for box.

**Related Items**

**Required**

- Design: SHTabQuant

**Recommended**

- Design: COMP 700-050-03

**Forms**

- Construction: Refer to Comp Book

**Documentation**

- Design: Locate in plans. Summarize quantities by location on tabulation of quantities

---

Details and Structure: Items 700 to 799
sheet in the plans, or detail calculations in the computation book.

**Construction**

Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
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<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</table>

**783- 6- A**

ITS SPLICE BOX FOR FIBER OPTIC

**Unit** EA  **Accuracy** Each  **PlanQuantity?** no

**Notes**

For use in fiber optic networks as a housing for the connection or termination of cable segments. Refer to specification for size, materials, and other details for box.

- REMOVE AND DISPOSE (A=6): Detail size and location in the plans. Contractor assumes ownership after removal- for disposal by the contractor.
- REMOVE AND STOCKPILE (A=7): Detail size and location in the plans. FDOT retains ownership of the item. Detail location for stockpile, i.e. Maintenance yard or project Right of way.

**Related Items**

**Required**

Design | SHTabQuant  **Recommended**  

Construction | COMP 700-050-03

**Documentation**

Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction | Record final quantity on the tabulation sheet (plans) or computation form (comp book).
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tr>
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<tr>
<td>0783 6 5</td>
<td>ITS SPLICE BOX FOR FIBER OPTIC CABLE, ADJUST/ MODIFY</td>
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**783- 7- A  ITS PULL AND JUNCTION BOX**

**Notes**

For use on ITS projects. To be used for non-fiber optic wiring needs (power, communication, etc for ITS systems). Full details/specs are needed for this item. Designer may refer to other specification sections, as needed to detail required box.

NOTE: THIS ITEM IS NOT covered by current 783 specification.

For Pull/Junction or Splice Box for Fiber Optics, refer to items 783-5 and 783-6, as detailed in the specifications.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

*****

REMOVE AND STOCKPILE (A=7): Detail size and location in the plans. FDOT retains ownership of the item. Detail location for stockpile, i.e. Maintenance yard or project Right of way.
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
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<td>1/1/2007</td>
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</table>

**Notes**

For use on ITS projects. Tech Spec and/or plan detail needed to specify material requirements and/or number of conductors. Primarily for communications, may carry incidental low voltage device power. When multiple cables are needed, use a tabulation sheet in the plans to clearly identify the number of pairs and length of each cable. Record the total length for payment under this pay item.

Note: FO patch cords or Cat5 cables may be considered as incidental to the hardware to be installed. Refer to 783-3 for patch cords.
For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

<table>
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<tr>
<th>Related Items</th>
<th>Required</th>
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<tbody>
<tr>
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Plan Detail and/or Tech Spec Required

<table>
<thead>
<tr>
<th>Prep &amp; Doc Manual Chapter(s)</th>
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**TRNS*PORT Category (DRAFT FIELD):** 0550 ITS

**Status**

**Struct.** 783- 8- A ITS MULTI-CONDUCTOR COMMUNICATION CABLE LF

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
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<th>LRE Ref Price</th>
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**783- 9- AB ITS LOCATE SYSTEM ELECTRONIC EQUIPMENT**

<table>
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<th>EA</th>
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</thead>
<tbody>
<tr>
<td></td>
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<td>Each</td>
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**Notes**

Effective July 08 letting, with updated specification.

**Details**

For use on ITS projects. This pay items is intended for the electronic equipment used to detect buried conduit and other underground duct, cable, and infrastructure. The electronics used for this activity typically includes a portable transmitter, a hand-held receiver, and electronic markers that cane be used together to determine the location of the underground utilities and other objects.

Special configuration and/or installation details should be detailed in the plans on a project-by project basis.

Electronic Box Marker: Specifications call for one electronic box marker in each pull box and splice box buried below finish grade. Additional markers may be used for existing ITS.
boxes within project limits.

NOTE: This item effective with the July 2008 letting; for projects let prior to July 2008, transmitter and receiver are included in the ITS conduit price, per specifications.

<table>
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<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
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<tbody>
<tr>
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**Documentation**

<table>
<thead>
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**Prep & Doc Manual Chapter(s)**

**TRNS*PORT Category (DRAFT FIELD):** 0550  ITS

**Status**

**Struct. 783- 9- AB**

ITS LOCATE SYSTEM ELECTRONIC EQUIPMENT  EA

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)
B = Equipment Type
1 (Transmitter)
2 (Receiver)
3 (Electronic Box Marker) Note: Do not use this item for Electronic Route Markers

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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**784- 1- A**

ITS MANAGED FIELD ETHERNET SWITCH

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<tbody>
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</table>

**Notes**

Details

For use in ITS communication networks to provide wire-speed fast Ethernet connections for ITS field devices. The Ethernet switch is hardened to withstand harsh environments and provides transmission rates of 100 megabits per second from the remote ITS device installation location to the ITS network trunk interconnection point.

**Related Items**

<table>
<thead>
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<th>Required</th>
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<tbody>
<tr>
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</table>
Standards
Specifications

Struct.  784-  1-  A  ITS MANAGED FIELD ETHERNET SWITCH  EA

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)
6 (Remove and Dispose) Contractor takes ownership

Notes

Status

TrnsPort Category (Draft Field): 0550  ITS

784-  1-  A  ITS MANAGED FIELD ETHERNET SWITCH  EA

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<tr>
<th>Item</th>
<th>Description</th>
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<th>TSP/Detail</th>
<th>Valid Date</th>
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<th>LRE Ref Price</th>
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<tr>
<td>0784 1 1</td>
<td>ITS MANAGED FIELD ETHERNET SWITCH, F&amp;I</td>
<td>EA</td>
<td>1/1/2007</td>
<td></td>
<td>$2,280.55</td>
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<tr>
<td>0784 1 3</td>
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<td>1/1/2007</td>
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<tr>
<td>0784 1 4</td>
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<td>1/1/2007</td>
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<td>$950.00</td>
<td></td>
</tr>
<tr>
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<td>ITS MANAGED FIELD ETHERNET SWITCH, REMOVE &amp; DISPOSE, CONTRACTOR TAKE OWNERSHIP</td>
<td>EA</td>
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<td></td>
</tr>
</tbody>
</table>

784-  2-  A  ITS DEVICE SERVER

Unit  EA  Accuracy  Each  PlanQuantity?  no

Notes

Details

For use when an ITS field device must connect to an Ethernet network but the device is only equipped with serial communication ports (i.e. EIA-232, EIA-422, or EIA-485 connections). Field devices that may require use of device servers include highway advisory radio field assemblies, microwave vehicle detection system devices, magnetic traffic detection systems, road weather information system stations, and other low-speed data output devices.

Related Items

Required  Recommended
Forms  Design  SHTabQuant  COMP 700-050-03
Construction  Refer to Comp Book

Documentation

Design  Locate in plans. Summarize quantities by location on tabulation of quantities
sheet in the plans, or detail calculations in the computation book.

Construction
- Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

**TRNS*PORT Category (DRAFT FIELD):** 0550 ITS

**Struct.** 784-2- A

**ITS DEVICE SERVER**

<table>
<thead>
<tr>
<th>A= Operation</th>
<th>1 (Furnish &amp; Install)</th>
<th>2 (Furnish)</th>
<th>3 (Install)</th>
<th>4 (Relocate)</th>
<th>5 (Adjust /Modify)</th>
<th>6 (Remove and Dispose) Contractor takes ownership</th>
</tr>
</thead>
</table>

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0784 2 1</td>
<td>ITS DEVICE SERVER, F&amp;I</td>
<td>EA</td>
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<td>1/1/2007</td>
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<td></td>
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<tr>
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<td>EA</td>
<td></td>
<td>1/1/2007</td>
<td></td>
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<td>$200.00</td>
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<tr>
<td>0784 2 4</td>
<td>ITS DEVICE SERVER, ADJUST/MODIFY</td>
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</table>

**784-3- AB**

**ITS DIGITAL VIDEO ENCODER WITH SOFTWARE DECODER**

<table>
<thead>
<tr>
<th>Unit</th>
<th>EA</th>
<th>Accuracy</th>
<th>Each</th>
<th>PlanQuantity?</th>
<th>no</th>
</tr>
</thead>
</table>

Notes

For use when analog video and data signals obtained in the field must be converted to digital signals for transmission across IP networks. The encoder and decoder are independent, network-based devices that utilize MPEG-2 and other video compression algorithms for transmission of high-bandwidth signals. Encoders may be hardened devices and are installed in the field. Decoders are housed in transportation management centers and can be either a hardware device or a decoder software program running on a computer.

NOTE: Software based decoder is incidental to the digital video encoder, per specifications.

Related Items

Required: SHTabQuant

Recommended: COMP 700-050-03

Forms

Design

Refer to Comp Book

Construction

Design

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction

Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other
Basis of Estimates

October 6, 2008

Standards
Specifications
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0550 ITS

Stand. 784- 3- AB

ITS DIGITAL VIDEO ENCODER WITH SOFTWARE DECODER

EA

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) B=0
4 (Relocate) B=0
5 (Adjust /Modify) B=0
6 (Remove and Dispose) Contractor takes ownership, B=0

B= Component
1 (Hardened Encoder)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0784 3 11</td>
<td>ITS DIGITAL VIDEO ENCODER WITH SOFTWARE DECODER, F&amp;I, HARDENED ENCODER</td>
<td>EA</td>
<td>1/1/2007</td>
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<td>$3,719.70</td>
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<td>0784 3 21</td>
<td>ITS DIGITAL VIDEO ENCODER WITH SOFTWARE DECODER, FURNISH, HARDENED ENCODER</td>
<td>EA</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$500.00</td>
</tr>
<tr>
<td>0784 3 60</td>
<td>ITS DIGITAL VIDEO ENCODER WITH SOFTWARE DECODER, REMOVE &amp; DISPOSE, HARDENED ENCODER</td>
<td>EA</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$0.00</td>
</tr>
</tbody>
</table>

784- 4- AB

ITS DIGITAL VIDEO DECODER

Unit EA Accuracy Each PlanQuantity? no

Notes

Details

DO NOT USE with Digital Video Encoder; see details with 784-3 item.
This item to be used only when a hardware-based decoder, or additional copies of the software-based decoder are needed.
Contact ITS Section prior to opening.

Related Items

Forms

Required Design SHTabQuant
Recommendation Design COMP 700-050-03

Construction

Refer to Comp Book

Documentation

Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter
Other
Standards

Details and Structure: Items 700 to 799
## Specifications

### Prep & Doc Manual Chapter(s)

| TRNS*PORT Category (DRAFT FIELD): | 0550 | ITS |

### Status

| Struct. | 784- 4- AB | ITS DIGITAL VIDEO DECODER | EA |

- **A**: Operation
- 1 (Furnish & Install)
- 2 (Furnish)
- 3 (Install) B=0
- 4 (Relocate) B=0
- 5 (Adjust /Modify) B=0
- 6 (Remove and Dispose) Contractor takes ownership B=0

- **B**: Component*
- 1 (Hardware-based decoder)
- 2 (Software-based decoder)

*See details and/or specifications

### Notes

- Contact ITS Section prior to opening.

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

---

### 784- 5- ABbash

| Unit | EA | Accuracy | Each | PlanQuantity? | no |

#### Notes

For use in ITS communication networks to provide centralized Ethernet connections for ITS field devices utilizing field or edge switches. The Ethernet hub switch is hardened to withstand harsh environments and installation at remote locations. "Long haul" and "short haul" are common terms applied to telecommunication equipment in order to generally describe a devices ability to transmit information over various distances.

#### Related Items

**Required**

<table>
<thead>
<tr>
<th>Forms</th>
<th>Design</th>
<th>SHTabQuant</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
<td></td>
</tr>
</tbody>
</table>

**Recommended**

| Related Items | Design | Construction | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

**Documentation**

| Design | Construction |

**PPM Chapter**

- Other

**Standards**

**Specifications**

### Prep & Doc Manual Chapter(s)

| TRNS*PORT Category (DRAFT FIELD): | 0550 | ITS |

### Status

| Struct. | 784- 5- AB | ITS MANAGER ETHERNET HUB SWITCH | EA |

- **A**: Operation
- 1 (Furnish & Install)
- 2 (Furnish)
- 3 (Install)
Topic No. 600-000-002
Basis of Estimates

4 (Relocate))
5 (Adjust /Modify)
6 (Remove and Dispose) Contractor takes ownership

B= Type
1 (Long Haul)
2 (Short Haul)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0784 5 11</td>
<td>ITS MANAGED ETHERNET HUB SWITCH, F&amp;I, LONG HAUL</td>
<td>EA</td>
<td>1/1/2007</td>
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<td>$18,379.80</td>
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784- 6- AB ITS WIRELESS COMMUNICATION DEVICE

<table>
<thead>
<tr>
<th>Unit</th>
<th>EA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accuracy</td>
<td>Each</td>
</tr>
<tr>
<td>PlanQuantity?</td>
<td>no</td>
</tr>
</tbody>
</table>

Notes

Details

For use in transmitting and receiving data in ITS networks, especially between remotely located field devices and the mainline communications infrastructure that serves them. Devices include radion transmitter-receivers and antennas, power-over-Ethernet (PoE) injectors, serial cable, power supplies and mounting hardware. Access points and subscriber units are typically associated with Ethernet systems. Specifications needed to detail equipment requirements.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
</table>

Forms

| Design | SHTabQuant |
| Construction | COMP 700-050-03 |

Documentation

| Design | SHTabQuant |

Reference

| Standards | Specifications |

Prep & Doc Manual Chapter(s)

| Required | SHTabQuant |

TRNS*PORT Category (DRAFT FIELD): 0550 ITS

Status

Struct. 784- 6- AB ITS WIRELESS COMMUNICATION DEVICE EA

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate))
5 (Adjust /Modify)
6 (Remove and Dispose) B=0, Contractor takes ownership
B= Type
1 (Ethernet Access Point)
2 (Ethernet Subscriber Unit)
3 (Serial Data Unit)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
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<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0784 6 11</td>
<td>ITS WIRELESS COMMUNICATION DEVICE, F&amp;I, ETHERNET ACCESS POINT</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
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<td>$7,107.50</td>
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<tr>
<td>0784 6 12</td>
<td>ITS WIRELESS COMMUNICATION DEVICE, F&amp;I, ETHERNET SUBSCRIBER UNIT</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
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<td>$6,750.00</td>
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<tr>
<td>0784 6 60</td>
<td>ITS WIRELESS COMMUNICATION DEVICE, REMOVE &amp; DISPOSE</td>
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<td>0784 6 61</td>
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785-1-AB ITS POLE

<table>
<thead>
<tr>
<th>Unit</th>
<th>EA</th>
<th>Accuracy</th>
<th>Each</th>
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</thead>
<tbody>
<tr>
<td>PlanQuantity?</td>
<td>no</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes

Use a lowering device in field locations where a CCTV camera or other ITS device is mounted on a pole, but the height precludes easy access to the equipment for maintenance or repair. The lowering device is provided along with a steel or concrete pole. Retrofit: to be used where a pole is already provided, to include furnishing & installation of lowering device.

Related Items

Required

Forms

Design | SHTabQuant
Construction | COMP 700-050-03

Documentation

Design

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction

Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0550 ITS

Status

Struct. 785-1-AB ITS POLE EA

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)
9 (Retrofit lowering device on existing pole) B=0

B= Type
1 (Concrete Pole w/ lowering device)
2 (Steel Pole w/ lowering device)
3 (Concrete Pole w/o lowering device)
4 (Steel Pole w/o lowering device)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0785 1 11</td>
<td>ITS POLE, F&amp;I, CONCRETE - WITH LOWERING DEVICE</td>
<td>EA</td>
<td>1/1/2007</td>
<td></td>
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<td>1/1/2007</td>
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<td>1/1/2007</td>
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<td>$6,283.27</td>
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<tr>
<td>0785 1 14</td>
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<td>EA</td>
<td>1/1/2007</td>
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<td>$15,000.00</td>
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<tr>
<td>0785 1 42</td>
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<td>1/1/2007</td>
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</tr>
<tr>
<td>0785 1 43</td>
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</tbody>
</table>

785- 2-ABC  ITS FIELD CABINET

Unit EA  Accuracy Each PlanQuantity? no

Notes Effective July 2007 letting; replaces 785-2-AB

Details

For use on ITS project. Refer to Specification for cabinets covered by Section 785. For Install, relocate, or adjust/modify operations, detail mounting requirements in the plans and/or specifications. Specifications for Install only items should include existing location of materials/equipment (i.e. maintenance yard address)

NOTE: Items listed in other sections may have cabinets incidental to item being installed.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

Required  Recommended

Forms
Design  SHTabQuant  COMP 700-050-03
Construction  Refer to Comp Book

Documentation
Design
Construction  Record final quantity on the tabulation sheet (plans) or computation form (comp book).  

References  
PPM Chapter
Other
Standards
Specifications

*Selected Items may require Tech Spec and/or Plan Detail
**Prep & Doc Manual Chapter(s)**

**TRNS*PORT Category (DRAFT FIELD):** 0550 ITS

### Status

**Struct. 785-2-ABC**

**ITS FIELD CABINET**

<table>
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<th>Operation</th>
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<td>1</td>
<td>Furnish &amp; Install</td>
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<td>2</td>
<td>Furnish</td>
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<td>3</td>
<td>Install BC=00</td>
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<tr>
<td>4</td>
<td>Relocate BC=00</td>
</tr>
<tr>
<td>5</td>
<td>Adjust /Modify BC=00</td>
</tr>
<tr>
<td>6</td>
<td>Remove and Dispose Contractor takes ownership BC=00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>B</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Type 336</td>
</tr>
<tr>
<td>2</td>
<td>Type 336 w/sunshields</td>
</tr>
<tr>
<td>3</td>
<td>Type 336S</td>
</tr>
<tr>
<td>4</td>
<td>Type 336S w/sunshields</td>
</tr>
<tr>
<td>5</td>
<td>Type 332</td>
</tr>
<tr>
<td>6</td>
<td>Type 332 w/sunshields</td>
</tr>
<tr>
<td>9</td>
<td>Special*</td>
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<table>
<thead>
<tr>
<th>C</th>
<th>Mounting</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Pole Mount</td>
</tr>
<tr>
<td>2</td>
<td>Ground Mount</td>
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</tbody>
</table>

**Notes**

* Special may require Tech Spec and/or Plan Detail

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The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
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<tbody>
<tr>
<td>0785 2112</td>
<td>ITS FIELD CABINET, F&amp;I, TYPE 336, GROUND MOUNT</td>
<td>EA</td>
<td>7/1/2007</td>
<td></td>
<td>$5,000.00</td>
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<tr>
<td>0785 2121</td>
<td>ITS FIELD CABINET, F&amp;I, TYPE 336 WITH SUNSHIELDS, POLE MOUNT</td>
<td>EA</td>
<td>7/1/2007</td>
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<td>$5,458.13</td>
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<tr>
<td>0785 2122</td>
<td>ITS FIELD CABINET, F&amp;I, TYPE 336 WITH SUNSHIELDS, GROUND MOUNT</td>
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<td>7/1/2007</td>
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<td>$5,959.00</td>
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<tr>
<td>0785 2131</td>
<td>ITS FIELD CABINET, F&amp;I, TYPE 336S, POLE MOUNT</td>
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<td>7/1/2007</td>
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<td>$7,507.60</td>
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<tr>
<td>0785 2141</td>
<td>ITS FIELD CABINET, F&amp;I, TYPE 336S WITH SUNSHIELDS, POLE MOUNT</td>
<td>EA</td>
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<td>$5,879.32</td>
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<tr>
<td>0785 2162</td>
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<td>0785 2191</td>
<td>ITS FIELD CABINET, F&amp;I, SPECIAL, POLE MOUNT</td>
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<td>7/1/2007</td>
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<td>$0.00</td>
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</tr>
<tr>
<td>0785 2192</td>
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<td>0785 2300</td>
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<td>EA</td>
<td>7/1/2007</td>
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<tr>
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<tr>
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<td>ITS FIELD CABINET, ADJUST/MODIFY</td>
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<tr>
<td>0785 2600</td>
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<td>EA</td>
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</tr>
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</table>

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**785-3-ABC**

**ITS EQUIPMENT SHELTER**

Details and Structure: Items 700 to 799
### Notes

**Effective July 2007 letting; replaces 785-3-AB**

For use on ITS Projects. Refer to Specification for cabinets/shelter covered by Section 785. All shelter/building incidentals must be detailed in the plans or specifications, including electrical, mechanical, and/or HVAC.

DO NOT Use 750 Architectural Items with this item.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

### Related Items

<table>
<thead>
<tr>
<th>Forms</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td></td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td></td>
<td>COMP 700-050-03</td>
</tr>
<tr>
<td>Design</td>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
</tbody>
</table>

### Documentation

Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References

PPM Chapter
Other
Standards
Specifications

*Selected Items may require Tech Spec and/or Plan Detail

### Prep & Doc Manual Chapter(s)

**TRNS**PORT Category (DRAFT FIELD): 0550 ITS

### Status

**Struct.** 785-3-ABC

<table>
<thead>
<tr>
<th></th>
<th>ITS EQUIPMENT SHELTER</th>
<th>EA</th>
</tr>
</thead>
<tbody>
<tr>
<td>A=</td>
<td>Operation</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>(Furnish &amp; Install)</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>(Furnish)*</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>(Install) BC=00*</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>(Relocate) BC=00*</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>(Adjust /Modify) BC=00</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>(Remove and Dispose) Contractor takes ownership</td>
<td></td>
</tr>
<tr>
<td>B=</td>
<td>Size (from exterior dimensions)</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>(up to 120 ft²)</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>(121 to 170 ft²)</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>(171 to 250 ft²)</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>(Special)*</td>
<td></td>
</tr>
<tr>
<td>C=</td>
<td>Interior Ceiling Height</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>(8 ft)</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>(9 ft)</td>
<td></td>
</tr>
</tbody>
</table>

**Notes**

*A=2, 3, 4 verify with ITS Office prior to opening
*B=9 may require Tech Spec or Plan Detail

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
### Topic No. 600-000-002

#### Basis of Estimates

**2009 Edition**

**October 6, 2008**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0785 3112</td>
<td>ITS EQUIPMENT SHELTER, F&amp;I, 120 SQUARE FEET OR LESS 9’ INTERIOR CEILING HEIGHT</td>
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<td>T</td>
<td>7/1/2007</td>
<td></td>
<td>$56,017.38</td>
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<tr>
<td>0785 3191</td>
<td>ITS EQUIPMENT SHELTER, F&amp;I, SPECIAL 9’ INTERIOR CEILING HEIGHT</td>
<td>EA</td>
<td>T</td>
<td>7/1/2007</td>
<td></td>
<td>$85,850.00</td>
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</table>

### 786- 1- AB

**ITS VEHICLE DETECTION SYSTEM**

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA</td>
<td>Each</td>
<td>no</td>
</tr>
</tbody>
</table>

#### Notes

**Details**

For use on ITS Projects. Refer to Specifications for types of detection systems. Special Detection Systems require approval of the State ITS Office.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

#### Related Items

**Required**

- **Design**
  - SHTabQuant

**Recommended**

- **Construction**
  - COMP 700-050-03

**Documentation**

- **Design**
- **Construction**

  Record final quantity on the tabulation sheet (plans) or computation form (comp book).

#### References

- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**

*Selected Items may require Tech Spec and/or Plan Detail

#### Prep & Doc Manual Chapter(s)

**TRNS*PORT Category (DRAFT FIELD):**

| 0550 | ITS |

#### Status

**Struct.**

- **786- 1- AB**

  **ITS VEHICLE DETECTION SYSTEM**

<table>
<thead>
<tr>
<th>A= Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 (Furnish &amp; Install)</td>
</tr>
<tr>
<td>2 (Furnish)</td>
</tr>
<tr>
<td>3 (Install)</td>
</tr>
<tr>
<td>4 (Relocate)</td>
</tr>
<tr>
<td>5 (Adjust /Modify)</td>
</tr>
<tr>
<td>9 (Retrofit lowering device on existing pole) B=0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>B= Detector Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 (Microwave)</td>
</tr>
<tr>
<td>2 (Video)</td>
</tr>
<tr>
<td>3 (Magnetic)</td>
</tr>
<tr>
<td>4 (Acoustic)</td>
</tr>
<tr>
<td>9 (Special) * Note: Requires prior approval of the ITS Office</td>
</tr>
</tbody>
</table>

#### Notes

* Special may require Tech Spec and/or Plan Detail

---

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*

**Details and Structure: Items 700 to 799**
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0786 111</td>
<td>ITS VEHICLE DETECTION SYSTEM, F&amp;I, MICROWAVE</td>
<td>EA</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$5,400.72</td>
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<tr>
<td>0786 112</td>
<td>ITS VEHICLE DETECTION SYSTEM, F&amp;I, VIDEO DETECTOR</td>
<td>EA</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$6,798.33</td>
</tr>
<tr>
<td>0786 113</td>
<td>ITS VEHICLE DETECTION SYSTEM, F&amp;I, MAGNETIC DETECTOR</td>
<td>EA</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$2,000.00</td>
</tr>
<tr>
<td>0786 119</td>
<td>ITS VEHICLE DETECTION SYSTEM, F&amp;I, SPECIAL</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$29,727.60</td>
</tr>
<tr>
<td>0786 131</td>
<td>ITS VEHICLE DETECTION SYSTEM, INSTALL, MICROWAVE</td>
<td>EA</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$1,950.70</td>
</tr>
<tr>
<td>0786 139</td>
<td>ITS VEHICLE DETECTION SYSTEM, INSTALL, SPECIAL</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$5,000.00</td>
</tr>
<tr>
<td>0786 141</td>
<td>ITS VEHICLE DETECTION SYSTEM, RELOCATE, MICROWAVE</td>
<td>EA</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$1,909.50</td>
</tr>
<tr>
<td>0786 142</td>
<td>ITS VEHICLE DETECTION SYSTEM, RELOCATE, VIDEO</td>
<td>EA</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$0.00</td>
</tr>
<tr>
<td>0786 149</td>
<td>ITS VEHICLE DETECTION SYSTEM, RELOCATE, SPECIAL</td>
<td>EA</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$4,611.42</td>
</tr>
<tr>
<td>0786 151</td>
<td>ITS VEHICLE DETECTION SYSTEM, ADJUST &amp; MODIFY, MICROWAVE</td>
<td>EA</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$1,909.50</td>
</tr>
</tbody>
</table>
This page intentionally left blank
### 800- MASS TRANSIT- RAIL ROAD

<table>
<thead>
<tr>
<th>Notes</th>
<th>Items 800 to 899: Mass Transit items removed due to lack of use. Item Structures restored upon request.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Details</th>
<th>Related Items</th>
<th>Forms</th>
<th>Documentation</th>
<th>References</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td><strong>Required</strong></td>
<td><strong>Recommended</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Design</strong></td>
<td><strong>Construction</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Design</strong></td>
<td><strong>Construction</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>PPM Chapter</strong></td>
<td><strong>Other</strong></td>
<td><strong>Standards</strong></td>
<td><strong>Specifications</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>Prep &amp; Doc Manual Chapter(s)</strong></td>
<td></td>
</tr>
</tbody>
</table>

**TRNS*PORT Category (DRAFT FIELD):**

**Status**

**Struct.** 800- MASS TRANSIT- RAIL ROAD

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
This page intentionally left blank
Chapter 19

Items 900 to 999

State Specifications and Estimates Office
Estimating Systems Support Section
This page intentionally left blank
### 901-337-8 Bonded Asphalt Concrete Friction Course

**Unit**: TN; MT  
**Accuracy**: 10th of a Ton; 10th of a Metric Ton  
**Plan Quantity**: No

**Notes**: Contact - Emmanuel Uwaibi for use

**Details**: For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**:  
**Required**: Design - SHTabQuant  
**Recommended**: COMP 700-050-06

**Documentation**:  
**Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.  
**Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**: PPM Chapter

**Prep & Doc Manual Chapter(s)**

**TRNS*PORT Category (DRAFT FIELD)**: 0200 Roadway

**Struct**: 901-337-8 Bonded Asphalt Concrete Friction Course TN

---

**The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>09013378</td>
<td>Bonded Asphalt Concrete Friction Course</td>
<td>TN</td>
<td>T</td>
<td>7/1/2007</td>
<td>9/30/2008</td>
<td></td>
<td>$139.67</td>
</tr>
</tbody>
</table>

---

### 904-439- A Synthetic Subsurface Drainage Layer

**Unit**: SY; M2  
**Accuracy**: Square Yard; Square Meter  
**Plan Quantity**: No

**Notes**: Monitor: Larry Jones, State Structures Office

**Details**: For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**:  
**Required**: Design - SHTabQuant  
**Recommended**: COMP 700-050-01

**Documentation**:  
**Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.  
**Construction**: Record final quantity on the tabulation sheet (plans) or computation form.
Standards
Specifications

**Struct. 904-439 - A SYNTHETIC SUBSURFACE DRAINAGE LAYER SY**

A= sides covered by geotextile
1 (single sided)
2 (double sided)
Note: Standard is double sided

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0904439 2</td>
<td>SYNTHETIC SUBSURFACE DRAINAGE LAYER, DOUBLE SIDED</td>
<td></td>
<td>SY</td>
<td>1/1/2007</td>
<td></td>
<td>$15.60</td>
</tr>
</tbody>
</table>

**904-540 - A HIGH TENSION CABLE BARRIER SYSTEM**

**Unit** LF; M1  **Accuracy** Linear Foot; 10th of a Meter  **PlanQuantity?** no

**Notes**

This is a trial item; contact the Monitor prior to use. Refer to Design Bulletin 07-08 for additional details.

**Details**

Monitor: Andy Keel through 12/05: A=1 complete system included anchors.
Effective 1/2006: A=2 or 3 defines type of post system, to be used with A=4 end terminal.

THE MONITOR WILL SELECT WHICH ITEM(S) are to be used on a given project, as well as advise when specific notes and/or details are to be added to the plans.

Use Miscellaneous Asphalt item for mow strip.

**Related Items**

**Required**
- Design: SHTabQuant
- Construction: Refer to Comp Book

**Recommended**
- Design: COMP 700-050-03
- Construction: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- PPM Chapter
- Other
- Standards
- Specifications

Details and Structure: Items 900 to 999
## Plan Detail and/or Tech Spec Required

### Prep & Doc Manual Chapter(s)

**TRNS*PORT Category (DRAFT FIELD):** 0200  Roadway

### Status

**Struct.** 904-540- A

**HIGH TENSION CABLE BARRIER SYSTEM**  LF

- **A= Type***
  - 1 (System with anchors) LF
  - 2 (Socketed Post System) LF
  - 3 (Driven Post System) LF
  - 4 (End Terminal) EA

### Notes

*The Monitor will select which item(s) to use on a given project.*

---

### The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0904540 1</td>
<td>HIGH TENSION CABLE BARRIER SYSTEM - WITH ANCHORS</td>
<td>LF</td>
<td>T</td>
<td>6/1/2008</td>
<td>9/30/2008</td>
<td>$19.30</td>
</tr>
<tr>
<td>0904540 2</td>
<td>HIGH TENSION CABLE BARRIER SYSTEM - SOCKETED POST</td>
<td>LF</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$14.30</td>
</tr>
<tr>
<td>0904540 4</td>
<td>HIGH TENSION CABLE BARRIER SYSTEM - END TERMINAL</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$2,587.50</td>
</tr>
<tr>
<td>0904540 10</td>
<td>HIGH TENSION CABLE BARRIER SYSTEM - RELOCATE</td>
<td>LF</td>
<td>T</td>
<td>1/1/2007</td>
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<td>$10.00</td>
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---

**904-711-ABC**  THERMOPLASTIC, NO TRACK

<table>
<thead>
<tr>
<th>Unit</th>
<th>Mixed</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
<th>no</th>
</tr>
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</table>

### Notes

**Monitor:** Chester Henson

Developmental Item- initial end date set at 6-30-2005. May only be changed with monitor's approval.

### Details

Monitor: Chester Henson.
Contact the monitor prior to using this item.

### Related Items

<table>
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<tr>
<th>Forms</th>
<th>Required</th>
<th>Recommended</th>
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</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-03</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
<td></td>
</tr>
</tbody>
</table>

### Documentation

<table>
<thead>
<tr>
<th>Design</th>
<th>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
</tbody>
</table>

### References

**PPM Chapter**

**Other**

**Standards**

**Specifications**

### Prep & Doc Manual Chapter(s)

**TRNS*PORT Category (DRAFT FIELD):** 0300  Signing and Pavement Markings

### Status

Details and Structure: Items 900 to 999
### Struct. 904-711-ABC  
**THERMOPLASTIC, NO TRACK**  
Mixed

- **A** = color  
  1 (white)  
  2 (yellow)

- **B** = type  
  1 (solid), per NM or NK Note: C =1 or 2  
  2 (skip), per GM or GK Note: C =1 or 2  
  3 (solid), per LF or M1  
  4 (skip), per LF or M1  
  5 (guidelines), per LF or M1  
  6 (messages), EA Note: C = 0

- **C** = width  
  0 (blank- used for B =6)  
  1 (6")  
  2 (8")  
  3 (10")  
  4 (12")  
  5 (16")  
  6 (18")  
  7 (24")

**Notes**  
Note: Mile (kilometer) units only valid with 6" or 8" stripes  
Note: Accuracy for LF items is per Linear Foot, Mile items to 1/1000th of a mile, and Square Foot items to the nearest square foot.

---

**The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.**

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>SY; M2</td>
<td>Square Yard; Square Meter</td>
<td>no</td>
<td>SY; M2</td>
<td>Square Yard; Square Meter</td>
<td>no</td>
</tr>
</tbody>
</table>

**Notes**  
Monitor: Manny Uwaibi

**Details**  
Monitor: Manny Uwaibi, State Pavement Design Office.  
Contact the monitor prior to using this item.

**Related Items**  
Required  
Recommended

**Forms**  
Design  
Construction

**Documentation**  
Design  
Construction

**References**  
PPM Chapter

**TRNS*PORT Category (DRAFT FIELD):**

**Status**

<table>
<thead>
<tr>
<th>Struct.</th>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
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<tbody>
<tr>
<td>905-324- A</td>
<td>REWORKED ASPHALT CONCRETE</td>
<td>SY</td>
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<td>905-324- A</td>
<td>REWORKED ASPHALT CONCRETE</td>
<td>SY</td>
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</table>

**Notes**  
Monitor: Manny Uwaibi

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**The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.**

**Details and Structure: Items 900 to 999**
### Basis of Estimates

#### Item Description

<table>
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<tr>
<th>Item</th>
<th>Description</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tr>
<td>0905324 1</td>
<td>REWORKED ASPHALT CONCRETE</td>
<td>SY</td>
<td>1/1/2007</td>
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<td>$13.18</td>
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</table>

#### 905-707- 1 STRIPING & MARKING- ASPHALT RESISTANT

<table>
<thead>
<tr>
<th>Notes</th>
<th>This is a developmental Item; contact the monitor prior to use. Valid for projects let March 2005 through June 2006. Date may be extended only by Monitor.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Details</td>
<td>Monitor: Ananth Prasad</td>
</tr>
<tr>
<td>Related Items</td>
<td>Required</td>
</tr>
<tr>
<td>Forms</td>
<td>Design</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
<tr>
<td>Documentation</td>
<td>Design</td>
</tr>
<tr>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
</tbody>
</table>

#### 906-102- 1 AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD)

<table>
<thead>
<tr>
<th>Notes</th>
<th>This is a developmental item; designers must get approval from the monitor prior to use.</th>
</tr>
</thead>
</table>
| Details | Monitor: Cheryl Adams  
Limited Use- When approved, Construction must document effectiveness for FHWA evaluation of this experimental item.  
Coordinate all reports with the monitor.  
For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item. |
| Related Items | Required | Recommended                                                                 |
| Forms | Design | SHTabQuant | COMP 700-050-03 |
| Construction | Refer to Comp Book |
| Documentation | Construction | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

---

*TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

---

Details and Structure: Items 900 to 999
## 906-173- A POLYURETHANE INJECTION AT BOX CULVERT

<table>
<thead>
<tr>
<th>Unit</th>
<th>LB; KG</th>
<th>Accuracy</th>
<th>Pound; Kilogram</th>
<th>PlanQuantity?</th>
<th>no</th>
</tr>
</thead>
</table>

### Notes
- This is a trial item; contact the Monitor prior to use

### Details
- to be used only with approval of State Structures Design Office
to be used for specialty geotechnical work.

### Related Items
- Required
- Recommended

### Forms
- Design: CADD Form not specified;
- Construction: Refer to Comp Book

### Documentation
- Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References
- PPM Chapter
- Other
- Standards
- Specifications
- Plan Detail and/or Tech Spec Required

## 906-334- 1 FUEL RESISTANT SUPERPAVE ASPHALT CONCRETE

<table>
<thead>
<tr>
<th>Unit</th>
<th>TN; MT</th>
<th>Accuracy</th>
<th>10th of a Ton; 10th of a Metric Ton</th>
<th>PlanQuantity?</th>
<th>no</th>
</tr>
</thead>
</table>

### Notes
- This is a trial item; contact the Monitor prior to use

---

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*
Details
Monitor: Greg Sholar.
to be used only with approval of Asphalt Materials and/or Pavement Office. Intended for Agricultural Inspection and Weigh stations
For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items
<table>
<thead>
<tr>
<th>Form</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-06</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
<td></td>
</tr>
</tbody>
</table>

Documentation
| Design       | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. |
| Construction | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

References
PPM Chapter
Other
Standards
Specifications
Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status
Struct. 906-334-1 FUEL RESISTANT SUPERPAVE ASPHALT CONCRETE TN

Notes
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0906334 1</td>
<td>FUEL RESISTANT SUPERPAVE ASPHALTIC CONCRETE</td>
<td>TN</td>
<td>T</td>
<td>1/1/2007</td>
<td>12/31/2007</td>
<td>$125.00</td>
</tr>
</tbody>
</table>

906-340-1 OPEN GRADED CRACK RELIEF LAYER

Unit TN; MT Accuracy 10th of a Ton; 10th of a Metric Ton PlanQuantity? no

Notes
This is a developmental item; contact the Monitor prior to use.
Details
Contact the State Materials Office for assistance with this office. Developmental Specification required.
Used as a first layer over existing cracked pavement. Use only with concurrence from District Materials Engineer. Estimate Quantities based on a thickness of 1 inch, with equivalent spread rate of 107 lb/sy.

Related Items
<table>
<thead>
<tr>
<th>Form</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-06</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
<td></td>
</tr>
</tbody>
</table>

Documentation
| Design       | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

Details and Structure: Items 900 to 999
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0906340 1</td>
<td>OPEN GRADED CRACK RELIEF LAYER</td>
<td>TN</td>
<td>T</td>
<td>9/1/2008</td>
<td>9/30/2008</td>
<td>$0.00</td>
</tr>
</tbody>
</table>

**Unit**: SF; M2  
**Accuracy**: Square Foot; 10th of a Square Meter

**Notes**: This is a trial item; contact the Monitor prior to use  
Monitor: Larry Jones

**Details**: Low height sheet pile for shoreline protection. Polyurethane resin/glass fiber matrix pultruded material. Experimental use only.

**Related Items**: Required | Recommended
Design | SHTabQuant | COMP 700-050-01
Construction | Refer to Comp Book

**Documentation**: Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction | Record final quantity on the tabulation sheet (plans) or computation form (comp book).

---

**906-455-1 COMPOSITE SHEET PILING**

**Unit**: SF; M2  
**Accuracy**: Square Foot; 10th of a Square Meter

**Notes**: This is a trial item; contact the Monitor prior to use  
Monitor: Larry Jones

**Details**: Low height sheet pile for shoreline protection. Polyurethane resin/glass fiber matrix pultruded material. Experimental use only.

**Related Items**: Required | Recommended
Design | SHTabQuant | COMP 700-050-01
Construction | Refer to Comp Book

**Documentation**: Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction | Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**: PPM Chapter

---

**906-546-1 TEMPORARY RAISED RUMBLE STRIPS**

**Unit**: PS  
**Accuracy**: Per Set

**Notes**: The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
This is a trial item; contact the Monitor prior to use
Monitor: Cheryl Adams

For use with flagging operations on a two-lane, two way roadway. Four Sets are to be used, in each direction of the roadway, in advance of the flagging station. Refer to the specification for details.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-03</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
<td></td>
</tr>
<tr>
<td>Documentation Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
<td></td>
</tr>
<tr>
<td>Construction</td>
<td>Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.</td>
<td></td>
</tr>
</tbody>
</table>

**References**
- PPM Chapter
- Other
- Standards
- Specifications
- Prep & Doc Manual Chapter(s)

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0906546 1</td>
<td>RUMBLE STRIPS, RAISED, TEMPORARY</td>
<td>PS</td>
<td></td>
<td>1/1/2006</td>
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<td>$692.47</td>
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**Struct.** 906-546-1 TEMPORARY RAISED RUMBLE STRIPS PS

**Notes**

This is a project-specific item.

Contact the State Structures Design Office prior to requesting this item.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
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<tbody>
<tr>
<td>Forms Design</td>
<td>Refer to Comp Book</td>
</tr>
<tr>
<td>Documentation Design</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
</tbody>
</table>

**References**
- PPM Chapter
- Other
- Standards
- Specifications
- Prep & Doc Manual Chapter(s)
### 906-548-1 SOLDIER PILE WALL SF

**Notes**

This is a project-specific item.

**Details**

Contact the State Structures Design Office prior to requesting this item.

**Related Items**

Required

**Forms**

Design

**Documentation**

Construction

**References**

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

---

### 906-548-2 SOLDIER NAIL WALL SF

**Notes**

This is a project-specific item.

**Details**

Contact the State Structures Design Office prior to requesting this item.

**Related Items**

Required

**Forms**

Design

**Documentation**

Construction

**References**

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

---

### 906-560-1 PAINTING STRUCTURAL STEEL- CABLES

**Notes**

This is a trial item; contact the Monitor prior to use

**Details**

Monitor: Karen Byram

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.
### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td>Design SHTabQuant, COMP 700-050-03</td>
</tr>
<tr>
<td></td>
<td>Construction Refer to Comp Book</td>
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</tbody>
</table>

#### Documentation

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
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<tbody>
<tr>
<td>Design Locate in plans. Summarize quantities by location or detail calculations.</td>
<td>Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.</td>
</tr>
</tbody>
</table>

#### References

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Design</th>
<th>Construction</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Notes

Plan Detail and/or Tech Spec Required

---

**TRNS**PORT Category (DRAFT FIELD): 0200 Roadway

#### Status

**Struct.** 906-560-1 PAINTING STRUCTURAL STEEL- CABLES LF

#### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>09065601</td>
<td>PAINT STRUCT STEEL, CABLES</td>
<td>LF</td>
<td>T</td>
<td>1/1/2007</td>
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<td>$88.71</td>
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### 906-609-AA TRAFFIC SIGNAL SYSTEM

<table>
<thead>
<tr>
<th>Unit</th>
<th>PI</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
<th>no</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Notes

This is a trial item; contact the Monitor prior to use

#### Details

Monitor: Chester Henson

This is a developmental item; contact the monitor prior to use. Intended for the payment of traffic signal systems, per intersection. Refer to the specifications for detailed list of items included/excluded for payment under this item.

#### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td>Design SHTabQuant, COMP 700-050-03</td>
</tr>
<tr>
<td></td>
<td>Construction Refer to Comp Book</td>
</tr>
</tbody>
</table>

#### Documentation

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design Locate in plans. Summarize quantities by location or detail calculations.</td>
<td>Construction Record final quantity on tabulation sheet or computation form.</td>
</tr>
</tbody>
</table>

#### References

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Design</th>
<th>Construction</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Plan Detail and/or Tech Spec Required

---

Details and Structure: Items 900 to 999
**TRNS*PORT Category (DRAFT FIELD):** 0500 Signalization

**Struct.** 906-609- AA TRAFFIC SIGNAL SYSTEM PI

AA= Intersection Number
1 (Intersection 1)
2 (Intersection 2)
## as needed for additional intersections on a proposal

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*

<table>
<thead>
<tr>
<th>906-609-100</th>
<th>INTERCONNECT CABLE ASSEMBLY- TRAFFIC SIGNAL SYSTEM</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Unit</strong></td>
<td>LF; M1</td>
</tr>
<tr>
<td><strong>Accuracy</strong></td>
<td>Linear Foot; 10th of a Meter</td>
</tr>
<tr>
<td><strong>PlanQuantity?</strong></td>
<td>no</td>
</tr>
</tbody>
</table>

**Notes**

This is a trial item; contact the Monitor prior to use

**Details**

Monitor: Chester Henson
This is a developmental item; contact the monitor prior to use.
For use only with Traffic Signal System, per intersection. Includes cable, conduit, pull boxes, and other signals materials/items between intersections which are not included under per intersection item. Refer to the specifications for additional information.

**Related Items**

**Forms**
- Required: 906-609- AA
- Recommended

**Construction**
- Refer to Comp Book

**Documentation**
- Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter
Other
Standards
Specifications
- Plan Detail and/or Tech Spec Required
- Prep & Doc Manual Chapter(s)

*TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

**Struct.** 906-609-100 INTERCONNECT CABLE ASSEMBLY- TRAFFIC SIGNAL SYSTEM

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*

<table>
<thead>
<tr>
<th>906-633-1</th>
<th>FIBER OPTIC AERIAL SPLICE ENCLOSURE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Unit</strong></td>
<td>EA</td>
</tr>
<tr>
<td><strong>Accuracy</strong></td>
<td>Each</td>
</tr>
<tr>
<td><strong>PlanQuantity?</strong></td>
<td>no</td>
</tr>
</tbody>
</table>

**Details**

New item for one-time use in district 5. Future use requires approval of Design and
Specifications

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
<tr>
<td>Documentation</td>
<td>Design</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
</tbody>
</table>

References

PPM Chapter
Other
Standards
Specifications

Plan Details and/or Tech Spec required
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. 906-633-1 FIBER OPTIC AERIAL SPLICING ENCLOSURE EA

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0906633 1</td>
<td>FIBER OPTIC AERIAL SPLICING ENCLOSURE, F&amp;I</td>
<td>EA</td>
<td>T</td>
<td>7/1/2007</td>
<td></td>
<td>$2,000.00</td>
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</table>

906-701- AA AUDIBLE STRIPE

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixed</td>
<td>Refer to item structure and details</td>
<td></td>
</tr>
</tbody>
</table>

Notes

Valid through 8-31-08; replaced by new 701 items. Refer to April 2008 Estimates/Roadway Bulletin.
This is a Developmental item; contact the Monitor prior to use

Details

Monitor: Chester Henson
This is a developmental item; contact the monitor prior to use.

Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td>Design</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
</tr>
<tr>
<td>Documentation</td>
<td>Design</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
</tr>
</tbody>
</table>

References

PPM Chapter
Other
Standards
Specifications
Verify structure with Monitor prior to opening items

AA=
32 (Yellow, Skip, 6") GM
34 (Yellow, Skip, 6") LF
35 (White, Solid, 6") LF
36 (Yellow, Solid, 6") LF
37 (White, Solid, 6") NM
38 (Yellow, Solid, 6") NM
others, per specification.

Note: Mile (kilometer) units only valid with 6" or 8" stripes
Note: Accuracy for LF items is per Linear Foot, Mile items to 1/1000th of a mile, and Square Foot items to the nearest square foot.

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0906701 32</td>
<td>TRAFFIC STRIPE SKIP AUDIBLE, YELLOW, 6&quot;</td>
<td>GM</td>
<td>T</td>
<td>1/1/2007</td>
<td>9/1/2008</td>
<td>$2,497.50</td>
</tr>
<tr>
<td>0906701 37</td>
<td>TRAFFIC STRIPE SOLID AUDIBLE, WHITE, 6&quot;</td>
<td>NM</td>
<td>T</td>
<td>1/1/2007</td>
<td>9/1/2008</td>
<td>$4,846.00</td>
</tr>
<tr>
<td>0906701 38</td>
<td>TRAFFIC STRIPE SOLID AUDIBLE, YELLOW, 6&quot;</td>
<td>NM</td>
<td>T</td>
<td>1/1/2007</td>
<td>9/1/2008</td>
<td>$4,846.00</td>
</tr>
</tbody>
</table>

---

Notes
Contact Chester Henson for information.
Pay Item structure updated with 9-8-06 developmental specification

Related Items
PPM Chapter
SBT BSP COMP 700-050-03

References
Prep & Doc Manual Chapter(s)
Verify structure with Monitor prior to opening items

AA=
31 (White, Skip, 6") GM
32 (Yellow, Skip, 6") GM
33 (White, Skip, 6") LF
34(Yellow, Skip, 6") LF
35 (White, Solid, 6") LF
36 (Yellow, Solid, 6") LF
37 (White, Solid, 6") NM
38 (Yellow, Solid, 6") NM

others, per specification.

Notes
Note: Mile (kilometer) units only valid with 6" or 8" stripes
Note: Accuracy for LF items is per Linear Foot, Mile items to 1/1000th of a mile, and Square Foot items to the nearest square foot.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0906702 32</td>
<td>INVERTED PROFILE MARKING, SKIP, YELLOW, 6&quot;</td>
<td>GM</td>
<td>T</td>
<td>1/1/2007</td>
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<tr>
<td>0906702 33</td>
<td>INVERTED PROFILE MARKING, SKIP, WHITE, 6&quot;</td>
<td>LF</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$5.00</td>
</tr>
<tr>
<td>0906702 35</td>
<td>INVERTED PROFILE MARKING, SOLID, WHITE, 6&quot;</td>
<td>LF</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$5.00</td>
</tr>
<tr>
<td>0906702 36</td>
<td>INVERTED PROFILE MARKING, SOLID, YELLOW, 6&quot;</td>
<td>LF</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$5.00</td>
</tr>
<tr>
<td>0906702 37</td>
<td>INVERTED PROFILE MARKING, SOLID, WHITE, 6&quot;</td>
<td>NM</td>
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<td>1/1/2007</td>
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</tr>
<tr>
<td>0906702 38</td>
<td>INVERTED PROFILE MARKING, SOLID, YELLOW, 6&quot;</td>
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<td>T</td>
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</table>

907-455- A CONCRETE CYLINDER PILE

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>LF; M1</td>
<td>Linear Foot; 10th of a Meter</td>
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Notes
Specification under development; do not open items until specification is complete

Details
Monitor: Larry Sessions, State Structures Design Office
Details needed from Monitor

Related Items
Required     Recommended

Forms
Design
Construction

Documentation
Design
Construction

References
PPM Chapter
Other
Standards
Specifications

Prep & Doc Manual Chapter(s)
### Structures

**907-455-A CONCRETE CYLINDER PILE**

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**Notes**

DO NOT OPEN WITHOUT APPROVAL OF THE MONITOR

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*On the following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*

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### Lighting

**907-715-AAA LIGHTING- HURRICANE REPAIRS**

AA Structure as requested

**Notes**

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*On the following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*

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**908-102- 1 MICROSURFACING FOR MOT**

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**Notes**

**DEV-mon: Manny Uwaibi, State Pavement Design Office**

**Details**

Contact the State Pavement Design Office for approval, prior to using this item.

This item intended for placing a thin asphalt layer for covering pavement markings, rather than removing conflicting pavement markings, during construction MOT at critical areas such as entrances and exits to Service Plazas and Toll Plazas.

For Plan Detail/Tech Spec items: The Designer should ensure that the description,
materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

### Related Items

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### Documentation

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### Standards

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**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

### Status

- **Struct.** 908-102-1
- **MICROSURFACING FOR MOT**
- **SY**

### Notes

Approval Required

---

**The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.**

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### 908-104-1

**CONTRACTOR’S SEDIMENT AND EROSION CONTROL**

#### Unit

- **LS/LS**

#### Accuracy

- Lump Sum

#### Plan

- **Quantity? yes**

#### Notes

- DEVELOPMENTAL SPECIFICATION REQUIRED; to be used only with permission of State Construction Engineer and/or State Drainage Engineer. Valid only for projects let July 1, 2008 to December 31, 2008

#### Details


#### Related Items

<table>
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---

For the purposes of providing the contractor information needed for the development of its Erosion and Sediment Control Plan, the Department’s Engineer of Record would need to provide the following information in the plans:

1. Delineation of wetland areas
2. Identification of Limits of Construction
3. Hydraulic maps
4. Contour maps
5. existing drainage facilities
6. drainage maps with flow patterns identified
7. forms required for reporting and documenting compliance
8. runoff coefficients
9. NPDES requirements
### Form: Design

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### Notes

DO NOT OPEN without approval from David Sadler and/or Rick Renna

---

### Form: Mitigation for Project Number 210427-3-52-01

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### Form: Deep Soil Mixing

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<td>10th of a Cubic Yard; 10th</td>
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Monitor: Larry Jones, State Geotechnical Engineer

Contact the State Structures Office for approval, prior to using this item.

This item is intended to be used for dry-method of mass soil mixing to stabilize organic subsoils and minimize the potential for future settlements.

The work includes mechanically blending the in-situ surface soils (muck) overlying limestone with a reagent binder to increase the soil strength, reduce settlement characteristics, and provide a stable soil surface for the roadway.

---

**Related Items**

<table>
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<th>Recommended</th>
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**Forms**

- Design
- Construction

**Documentation**

- Design
- Construction

**References**

- PPM Chapter
- Other
- Standards
- Specifications

---

**TRNS*PORT Category (DRAFT FIELD):**

**Status**

**Struct.** 908-170- A DEEP SOIL MIXING CY

A= Method
1 (Dry)

**Notes**

Valid only for project 220499-1-52-01. Contact Monitor for consideration on other projects

---

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**908-350- A FIBER REINFORCED CONCRETE PAVEMENT**

**Notes**

Monitor: Manny Uwaibi

Contact the State Pavement Design Office prior to use.

---

**Related Items**

<table>
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<th>Recommended</th>
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**Forms**

- Design
- Construction

**Documentation**

- Design
- Construction

**References**

- PPM Chapter
- Other
- Standards
- Specifications

---

Details and Structure: Items 900 to 999
### Prep & Doc Manual Chapter(s)

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

### Status

**Struct.** 908-350- A **FIBER REINFORCED CONCRETE PAVEMENT** SY

### Notes

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*

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<td>0908350 1</td>
<td>FIBER REINFORCED CONCRETE PAVEMENT, 11&quot; AVE THICKNESS</td>
<td>SY</td>
<td>T</td>
<td>1/1/2009</td>
<td>12/31/2009</td>
<td>$350.00</td>
</tr>
<tr>
<td>0908350 2</td>
<td>FIBER REINFORCED CONCRETE PAVEMENT, 14&quot; AVE THICKNESS</td>
<td>SY</td>
<td>T</td>
<td>1/1/2009</td>
<td>12/31/2009</td>
<td>$350.00</td>
</tr>
<tr>
<td>0908350 2</td>
<td>FIBER REINFORCED CONCRETE PAVEMENT, 14&quot; AVE THICKNESS</td>
<td>SY</td>
<td>T</td>
<td>1/1/2009</td>
<td>12/31/2009</td>
<td>$350.00</td>
</tr>
</tbody>
</table>

### 908-400- A **SKYWAY- LIGHTNING PROTECTION SYSTEM**

#### Notes

*For use ONLY on the SKYWAY Bridge

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>0908400 1</td>
<td>SKYWAY - LIGHTNING PROTECTION SYSTEM</td>
<td>EA</td>
<td>Each</td>
<td>yes</td>
</tr>
</tbody>
</table>

#### Related Items

Required

Recommended

### Forms

Design

Construction

### Documentation

Design

Construction

### References

PPM Chapter

Other

Standards

Specifications

### Prep & Doc Manual Chapter(s)

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

### Status

**Struct.** 908-400- A **SKYWAY- LIGHTNING PROTECTION SYSTEM** EA

A= 1

*For use ONLY on the SKYWAY Bridge

### Notes

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0908430 1</td>
<td>DRAINAGE MATERIALS</td>
<td>EA</td>
<td>Y</td>
<td>3/1/2008</td>
<td>12/30/2008</td>
<td>$0.00</td>
</tr>
</tbody>
</table>

### Details and Structure: Items 900 to 999
### Notes

**Details**
A=1: Plans and/or Specifications must clearly identify materials to be furnished under special agreement with local agency.

**Related Items**
Required  Recommended

**Forms**
Design  Construction

**Documentation**
Design  Construction

**References**
PPM Chapter  Other  Standards  Specifications

---

**TRNS*PORT Category (DRAFT FIELD):** 0200  Roadway

**Status**

**Struct.**  908-430- A  DRAINAGE MATERIALS  LS/LS

A= Operation
1 (Furnish Only) Project specific item, 5/08 letting

**Notes**
One-time use; District 1 item

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

---

**908-431- A**  PIPE LINER- SECTIONAL REPAIR

**Unit**  LF; M1  **Accuracy**  Linear Foot; 10th of a Meter  **PlanQuantity?**

**Notes**
Contact the State Drainage Office prior to use.
Box-to-Box repairs are normally preferred (use Item 431-). When a Sectional Repair is considered, coordinate with the State Drainage Office. New materials/methods may be recommended.

**Related Items**
Required  Recommended

**Forms**
Design  Construction

**Documentation**
Design  Construction

**References**
PPM Chapter  Other  Standards  Specifications

---

Details and Structure: Items 900 to 999
**TRNS**PORT Category (*DRAFT FIELD*): 0200  Roadway

### Status

<table>
<thead>
<tr>
<th>Struct.</th>
<th>908-431- A</th>
<th>PIPE LINER - SECTIONAL REPAIR</th>
<th>LF</th>
</tr>
</thead>
</table>

A = Pipe Diameter Size Range

1 (0—24")

2 (25-36")

3 (37-48")

4 (49-60")

5 (61" and greater)

### Notes

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0908431 1</td>
<td>PIPE LINER, SECTIONAL REPAIR, 0-24&quot;</td>
<td>LF</td>
<td>T</td>
<td>1/1/2007</td>
<td>12/31/2008</td>
<td>$113.52</td>
</tr>
<tr>
<td>0908431 2</td>
<td>PIPE LINER, SECTIONAL REPAIR, 25-36&quot;</td>
<td>LF</td>
<td>T</td>
<td>1/1/2007</td>
<td>12/31/2008</td>
<td>$113.52</td>
</tr>
<tr>
<td>0908431 3</td>
<td>PIPE LINER, SECTIONAL REPAIR, 37-48&quot;</td>
<td>LF</td>
<td>T</td>
<td>1/1/2007</td>
<td>12/31/2008</td>
<td>$113.52</td>
</tr>
<tr>
<td>0908431 4</td>
<td>PIPE LINER, SECTIONAL REPAIR, 49-60&quot;</td>
<td>LF</td>
<td>T</td>
<td>1/1/2007</td>
<td>12/31/2008</td>
<td>$113.52</td>
</tr>
<tr>
<td>0908431 5</td>
<td>PIPE LINER, SECTIONAL REPAIR, 61&quot; OR &gt;</td>
<td>LF</td>
<td>T</td>
<td>1/1/2007</td>
<td>12/31/2008</td>
<td>$113.52</td>
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</table>

### 908-450- A

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>Plan</th>
<th>Quantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Notes

**Details**

- **Related Items**
  - Required
  - Recommended
- **Forms**
  - Design
  - Construction
- **Documentation**
  - Design
  - Construction
- **References**
  - PPM Chapter
  - Other Standards
  - Specifications
  - Prep & Doc Manual Chapter(s)

*TRNS**PORT Category (*DRAFT FIELD*):*

### Status

<table>
<thead>
<tr>
<th>Struct.</th>
<th>908-450- A</th>
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</thead>
</table>

### Notes

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*
# Topic No. 600-000-002

## Basis of Estimates

### 2009 Edition
October 6, 2008

<table>
<thead>
<tr>
<th>Item</th>
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<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0908450 1</td>
<td>PRECAST CONCRETE DECK PANELS</td>
<td>SF</td>
<td>T</td>
<td>1/1/2009</td>
<td>6/30/2009</td>
<td>$55.00</td>
</tr>
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</table>

### 908-463- A
**FIBER REINFORCED COMPOSITE DECK**

- **Unit**: SF; M2
- **Accuracy**: Square Foot; 10th of a Square Meter

#### Notes
Valid only for test project

#### Details
One time use only: Project 415316-1-52-01, let 3-25-09

INSTALL: Decking to be purchased by FDOT. Contractor will pick up materials from operation center and install it per plans & specifications.

#### Related Items
- **Required**: Required
- **Recommended**: Recommended

#### Forms
- Design
- Construction

#### Documentation
- Design
- Construction

#### References
- PPM Chapter
- Other
- Standards
- Specifications

#### Plan Detail and/or Tech Spec Required
Prep & Doc Manual Chapter(s)

### TRNS*PORT Category (DRAFT FIELD):
0100 Structures

### Status
**Struct.** 908-463- A  **FIBER REINFORCED COMPOSITE DECK**  **SF**

A= Operation
1 (Install)

#### Notes
One-time use; project 415316-1-52-01, let 3-25-09

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0908463 1</td>
<td>FIBER REINFORCED COMPOSITE DECK, INSTALL</td>
<td>SF</td>
<td>3/25/2009</td>
<td>3/26/2009</td>
<td>$0.00</td>
<td></td>
</tr>
</tbody>
</table>

### 908-560-1
**CAULK FOR HART BRIDGE**

- **Unit**: LF; M1
- **Accuracy**: Linear Foot; 10th of a Meter

#### Notes
Valid for use only on Hart Bridge

#### Details
Tech Specs/Plan details required to detail material requirements (compatibility with coatings to be applied)

#### Related Items
- **Required**: Required
- **Recommended**: Recommended

#### Forms
- Design
- Construction

#### Documentation
- Design
- Construction

---

Details and Structure: Items 900 to 999
## 908-560-1 CAULK FOR HART BRIDGE

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<tr>
<th>Item</th>
<th>Description</th>
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<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0908560 1</td>
<td>CAULKING FOR HART BRIDGE</td>
<td>LF</td>
<td>T</td>
<td>8/1/2008</td>
<td>12/31/2008</td>
<td>$1.00</td>
</tr>
</tbody>
</table>

### Notes

Valid for use only on Hart Bridge

### Details

Tech Specs/Plan details required to detail grinding requirements

### Related Items

Required

### Forms

Design

### Documentation

Design

### References

PPM Chapter

### Prep & Doc Manual Chapter(s)

0100 Structures

## 908-560-2 GRINDING FOR HART BRIDGE

**Notes**

Valid for use only on Hart Bridge

**Details**

Tech Specs/Plan details required to detail grinding requirements

**Related Items**

Required

**Forms**

Design

**Documentation**

Design

**References**

PPM Chapter

### Prep & Doc Manual Chapter(s)

0100 Structures

## 908-571-1 TRANSITION MAT

**Notes**

Monitor: Larry Ritchie, State Construction Office

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>0908571 1</td>
<td>TRANSITION MAT</td>
<td>SY</td>
<td>Square Yard; Square Meter</td>
<td>no</td>
</tr>
</tbody>
</table>

**Details and Structure:** Items 900 to 999
Transition Mat for scour and permanent erosion control.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>TSP/Detail</th>
<th>Unit</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0908571 1</td>
<td>TRANSITION MAT SY</td>
<td>T</td>
<td>SY</td>
<td>9/15/2008</td>
<td>12/31/2009</td>
<td>$1.00</td>
</tr>
</tbody>
</table>

**Notes**

- **Details and Structure: Items 900 to 999**
- **TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Related Items**

- **Required**
- **Recommended**

**Forms**

- Design
- Construction

**Documentation**

- Design
- Construction

**References**

- PPM Chapter
- Other
- Standards
- Specifications

**Prep & Doc Manual Chapter(s)**

**Status**

**Notes**

- **Details and Structure: Items 900 to 999**
- **TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway
999- 2-  LUMP SUM CONTRACT (ALTERNATIVE BIDDING)

<table>
<thead>
<tr>
<th>Unit</th>
<th>LS/LS</th>
<th>Accuracy</th>
<th>Lump Sum</th>
<th>PlanQuantity?</th>
<th>no</th>
</tr>
</thead>
</table>

Notes

Details

See latest guidelines for Innovative Bidding practices.

Related Items

Required  Recommended

Forms

Design  SHTabQuantLS  COMP 700-050-05

Construction  Refer to Comp Book

Documentation

Design  Construction

References

PPM Chapter  Other

Standards  Specifications

Prep & Doc Manual Chapter(s)  Contact Final Estimates

TRNS**PORT Category (DRAFT FIELD):  0200  Roadway

Status

Struct.  999- 2-  LUMP SUM CONTRACT (ALTERNATIVE BIDDING)  LS/LS

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0999 2</td>
<td>LUMP SUM CONTRACT, ALTERNATIVE BIDDING</td>
<td>LS</td>
<td>1/1/2007</td>
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<td></td>
<td>$879,508.82</td>
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</table>

999- 5-  LANE RENTAL DAYS (TIME BID)

<table>
<thead>
<tr>
<th>Unit</th>
<th>DD</th>
<th>Accuracy</th>
<th>Dollars per day</th>
<th>PlanQuantity?</th>
<th>no</th>
</tr>
</thead>
</table>

Notes

Details

See latest guidelines for Innovative Bidding Practices.

Related Items

Required  Recommended

Forms

Design  SHTabQuant  COMP 700-050-03

Construction  700-050-57

Documentation

Design  Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction  Record final quantity on the tabulation sheet (plans) or computation form (comp book).
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

**999- 16-** PARTNERING (DO NOT BID)

<table>
<thead>
<tr>
<th>Unit</th>
<th>LS/LS</th>
<th>Accuracy</th>
<th>Lump Sum</th>
<th>PlanQuantity?</th>
</tr>
</thead>
</table>

**Notes**
The use of this pay item will be initiated by the District Construction Office. The purpose is to provide an amount of money to the contractor to pay for the cost of a partnering session(s). Designers will load the pay item and provide the cost to be overrun to the District Estimates Coordinator.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Forms Design</th>
<th>SHTabQuantLS</th>
<th>COMP 700-050-05</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Documentation Design</th>
<th>Computation book form or documentation from Construction required.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.</td>
</tr>
</tbody>
</table>

**References**

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Other</th>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Standards</th>
<th>Specifications</th>
</tr>
</thead>
</table>

**Prep & Doc Manual Chapter(s)**

11, 13

---

**999- 20-** DISPUTE REVIEW BOARD (DO NOT BID)

<table>
<thead>
<tr>
<th>Unit</th>
<th>DA</th>
<th>Accuracy</th>
<th>Day</th>
<th>PlanQuantity?</th>
</tr>
</thead>
</table>

**Notes**
The use of this pay item will be initiated by the District Construction Office. The purpose is
to require a Dispute Resolution Board to be established for the project and to provide the contractor a specific amount of money to pay for the services of each of the three Board members. Designers will load the pay item and the number of days (meetings).

NOTE: Construction will advise the designer when to use this item. They will also provide the designer with the number of days (meetings), based on 1 meeting per month for the length of the contract. The cost has been hard coded at $3,300.00* as the unit price for this item. Only the Director of Construction can approve a change to this amount.

*Verify current amount with specification.

### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
<tr>
<td>Documentation</td>
<td>Design</td>
</tr>
<tr>
<td>Construction</td>
<td>Record final quantity on the computation book form.</td>
</tr>
<tr>
<td>References</td>
<td>PPM Chapter</td>
</tr>
<tr>
<td>Other</td>
<td></td>
</tr>
<tr>
<td>Standards</td>
<td></td>
</tr>
<tr>
<td>Specifications</td>
<td></td>
</tr>
<tr>
<td>Prep &amp; Doc Manual Chapter(s)</td>
<td>11, 13</td>
</tr>
</tbody>
</table>

### TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

### Status

**Struct.** 999- 20- DISPUTE REVIEW BOARD (DO NOT BID) DA

### Notes

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0999 16</td>
<td>PARTNERING, DO NOT BID</td>
<td>LS</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$0.00</td>
</tr>
</tbody>
</table>

### 999- 25- INITIAL CONTINGENCY AMOUNT (DO NOT BID)

#### Unit

$ Accuracy Dollars PlanQuantity? no

### Notes

IMPORTANT: INITIAL CONTINGENCY TOTAL IS BASED ON PROPOSAL TOTAL, not individual project totals.

### Details

Use when requested by Construction, in accordance with the CPAM (Construction Project Administration Manual). The item will be loaded as FA Participating and the cost will be input by the District Estimates Coordinator. Load item in Roadway Category. When a contract contains multiple projects, this item may be used on each project within the contract, if recommended by construction. Note that the totals listed in the CPAM are per PROPOSAL/CONTRACT, not per project.

Department Policy (per F. Simmons, 10-1-02): Include Initial Contingency Amount on all Design-Build Contracts.

### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
<tr>
<td>Documentation</td>
<td>Design</td>
</tr>
<tr>
<td>Construction</td>
<td>see detail</td>
</tr>
<tr>
<td>References</td>
<td>PPM Chapter</td>
</tr>
<tr>
<td>Other</td>
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</table>
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<tr>
<th>Item</th>
<th>Description</th>
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<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0999 20</td>
<td>DISPUTES REVIEW BOARD, DO NOT BID</td>
<td>DA</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td></td>
<td>$0.00</td>
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</table>

999-102- A SPEED AND LAW ENFORCEMENT OFFICER (DO NOT BID)

<table>
<thead>
<tr>
<th>Notes</th>
<th>Monitor: Cheryl Adams</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A=Contract Type refer to contract between FDOT and Law enforcement, NOT type of Construction Contract.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Details</th>
<th>This item is used to provide uniformed traffic control officers, including marked law enforcement vehicles, to assist in controlling speed and enforcing traffic laws in the work zone. Officers should be actively involved in either directing traffic or reducing speeding and traffic violations present in our work zones.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
<tr>
<td>Documentation</td>
<td>Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>References</th>
<th>PPM Chapter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other</td>
<td>Standards</td>
</tr>
<tr>
<td>Specifications</td>
<td></td>
</tr>
</tbody>
</table>

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

A = 1 = Central Office Statewide Contract 2 = District Contract

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
### Topic No. 600-000-002  
**Basis of Estimates**  
2009 Edition  
October 6, 2008

<table>
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<tr>
<th>Item</th>
<th>Description</th>
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<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0999 25</td>
<td>INITIAL CONTINGENCY AMOUNT, DO NOT BID</td>
<td>LS</td>
<td></td>
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#### 999-455- AB  
**PILING- PRESTRESSED**

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**Notes**

**Details**

**Related Items**

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<td>COMP 700-050-03</td>
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<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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</table>

**Documentation**

| Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. |
|        | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

**References**

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Other</th>
<th>Standards</th>
<th>Specifications</th>
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**Prep & Doc Manual Chapter(s)**

**TRNS**PORT Category (DRAFT FIELD):  
0100 Structures

**Status**

**Struct.**  
999-455- AB  
**PILING- PRESTRESSED**  
**LF**

A = 1 Piling (Prestressed Concrete)  
2 Test Piling (Prestressed)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*

#### 999-715- A  
**HURRICANE REPAIRS- LIGHTING**

<table>
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<tbody>
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**Notes**

Valid for Hurricane Repairs only.

**Details**

This is a special items for repair/replacement due to hurricanes.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

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**Documentation**

| Design | Locate in plans. Summarize quantities by location on tabulation of quantities |

**Details and Structure**: Items 900 to 999
sheet in the plans, or detail calculations in the computation book.

**Construction**
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**
PPM Chapter
Other
Specifications

**Plan Detail and/or Tech Spec Required**

**Prep & Doc Manual Chapter(s)**

---

**TRNS*PORT Category (DRAFT FIELD):**
0400 Lighting

**Status**

**Struct.**
999-715- A
HURRICANE REPAIRS- LIGHTING

A= Sequential Order of Items; may be expanded upon request.
1 (Ballast) EA
2 (Lamp, HPS) EA
3 (Lamp, Mercury Vapor) EA
4 (Lamp, Metal Halide) EA

**Notes**

---

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*
This page intentionally left blank
Chapter 20
Items 1000 to 1999
Utilities (JPA) use only
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1000- AA- UTILITY WORK

Unit: LS/LS  Accuracy: Lump Sum  PlanQuantity?: yes

Notes
HOLD pending approvals

Details
HOLD pending approval of the State Roadway Design Engineer. Specification and/or PPM guidance details to be determined.

This pay item for Utility JPA projects Only
Coordinate the use of this item with District Utilities Office. This item not to be used with detailed pay items for given utility. Payment covers all work and materials for specified utility.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

Required
Design: SHTabQuantLS

Recommended
Construction: COMP 700-050-05

Forms
Design: Refer to Comp Book

Construction: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction: Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References
PPM Chapter
Other
Standards
Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0700 Utilities

Status

Struct. 1000- AA- UTILITY WORK LS/LS

AA =
5 (Sewer)
6 (Water)
7 (Power)
8 (Communications)
9 (Fuel)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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Details and Structure: Items 1000 to 1999 (JPA Utility use only)
This pay item for Utility JPA projects Only

For new pipe, payment includes anchors & incidentals, as well as connections to existing systems; detail all work in the plans or specifications. HISTORICAL PRICES vary considerably based on location, depth, installation length, specification requirements (sanitizing, leak detection) and other factors. Consult the maintaining agency for guidance on unit prices.

For pipe up to 7.9" diameter, payment includes all fittings. Material requirements and pressure ratings must be included in the specifications. Pressure values shown next to the application are for common operating pressures, and are not included in the pay item description. (Design and Material pressure ratings are considerably higher than normal operating pressure, to allow for factor of safety.) Select the application based on the type of utility work to be completed.

For Casings, payment includes vents/air release valves.

For Plug/Place out of service, Specs/Details should indicate that payment includes all work & materials necessary. Plans should indicate length of pipe to be filled (payment length).

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

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<td>Design</td>
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<tr>
<td>Construction</td>
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</tbody>
</table>

**References**

- PPM Chapter
- Other
- Standards
- Specifications

Plan Detail and/or Tech Spec Required

**Prep & Doc Manual Chapter(s)**

**TRNS*PORT Category (DRAFT FIELD):** 0700 Utilities

**Status**

**Struct.** 1050-1A-BCD UTILITY PIPE LF

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) BC=00
4 (Relocate) BC=00
5 (Adjust /Modify) BC=00
6 (Remove & Dispose) BC=00, Note: Contractor takes ownership
7 (Remove & Stockpile/Salvage) BC=00, Note: DOT/maintaining agency retains ownership
8 (Plug & Place out of Service) BC=00 Note: Utility Retains Ownership
9 (Temporary Pipe)

B=Material
1 (Concrete)
2 (PVC)
3 (PE)
4 (DI/CI)
5 (Steel)
9 (Special)*

C= Application
1 (Casing/Conduit)
2 (Water/Sewer)
3 (Gas)
4 (Fuel Transmission)

D= Size or Equivalent Diameter
1 (0 - 1.9")*
2 (2.0 - 4.9")*
3 (5.0 - 7.9")*
4 (8.0 - 19.9")
5 (20.0 - 49.9")
6 (50.0" or larger)
*Sizes up to 7.9" includes the cost of all fittings

**Notes**  
* Special may require Tech Spec and/or Plan Detail

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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### Topic No. 600-000-002
#### Basis of Estimates

**2009 Edition**

**October 6, 2008**

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### 1055-1A-BCD UTILITY FITTINGS

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<tr>
<td>For pipe up to 7.9&quot; diameter, payment includes all fittings. Material requirements and pressure ratings to be included in the specifications.</td>
<td></td>
</tr>
<tr>
<td>For Plan Detail/Tech Spec items: The Designer should ensure that the description,</td>
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</table>
materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
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<td>Construction</td>
<td>Refer to Comp Book</td>
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<td>Documentation</td>
<td>Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
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<td>References</td>
<td>PPM Chapter</td>
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<td>Standards</td>
<td>Specifications</td>
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Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0700 Utilities

Status

Struct. 1055-1A-BCD UTILITY FITTINGS EA

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) BCD=blank
4 (Relocate) BCD=blank
5 (Adjust /Modify) BCD=blank
6 (Remove & Dispose) BCD=blank, Note: Contractor takes ownership
7 (Remove & Stockpile/Salvage) BCD=blank, Note: DOT/maintaining agency retains ownership
8
9 OPEN Note: May be defined in item structure as Special, Rehab, etc.

B=Material
1 (Concrete)
2 (PVC)
3 (PE)
4 (Di/CI)
5 (Steel)
9 (Special)*

C= Fitting Type
1 (Elbow)
2 (Tee)
3 (Reducer)
4 (Union)
5 (Cap/Plug)
6 (Y)
7 (Cleanout)
9 (Special)*

D= Size or Equivalent Diameter

4 (8.0 -19.9")
5 (20.0 - 49.9")
6 (50.0" or larger)

*Sizes up to 7.9" includes the cost of all fittings
**Notes**  
* Special may require Tech Spec and/or Plan Detail

---

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
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EA | T | 1/1/2007 | $2,500.00
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EA | T | 1/1/2007 | $1,066.67
---|---|----------|----------

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EA | T | 1/1/2007 | $1,000.00
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### 1055 11994 UTILITY FITTINGS, F&I, SPECIAL MATERIAL, SPECIAL FITTING, 8.0-19.9”

EA | T | 1/1/2007 | $2,000.00
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### 1055 13 UTILITY FITTINGS, INSTALL

EA | T | 1/1/2007 | $1,019.98
---|---|----------|----------

### 1055 15 UTILITY FITTINGS, ADJUST & MODIFY

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### 1060- 1A-BCD UTILITY STRUCTURE- BELOW GROUND

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#### Notes

This pay item for Utility JPA projects Only DO NOT USE for Milling adjustments; see 425 items for adjusting manholes & utility valves For Utility Structures BELOW ground.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

#### Related Items

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<th>Forms</th>
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#### References

PPM Chapter
Other Standards Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

#### Status

**TRANSPORT Category (DRAFT FIELD):** 0700 Utilities

**Struct.** 1060- 1A-BCD UTILITY STRUCTURE- BELOW GROUND

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify) BCD= blank See detail information for milling adjustments
6 (Remove & Dispose) BCD= blank Note: Contractor takes ownership
7 (Remove & Stockpile/Salvage) BCD= blank Note: DOT/maintaining agency retains ownership
B=Utility
### Notes
* Special/"other" may require Tech Spec and/or Plan Detail

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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### Details
This pay item for Utility JPA projects Only
For Utility Structures ABOVE ground.

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**1060- 2A- BC UTILITY STRUCTURE- ABOVE GROUND**

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<tr>
<td>Accuracy</td>
<td>Each</td>
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**Notes**

Details: Items 1000 to 1999 (JPA Utility use only)
Calculate pad volume as the length x width x depth of concrete. Covers are for non-electrical applications, aesthetic or weather enclosures. Material requirements to be included in the specifications.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

### Related Items

<table>
<thead>
<tr>
<th>Forms</th>
<th>Required</th>
<th>Recommended</th>
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<tr>
<td>Design</td>
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### Documentation

| Design            | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. |
| Construction      | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

### References

- PPM Chapter
- Other
- Standards
- Specifications

**Plan Detail and/or Tech Spec Required**

**Prep & Doc Manual Chapter(s)**

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### Status

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- A= Operation
- 1 (Furnish & Install)
- 2 (Furnish)
- 3 (Install)
- 4 (Relocate)
- 5 (Adjust /Modify) BCD= blank
- 6 (Remove & Dispose) BCD= blank Note: Contractor takes ownership
- 7 (Remove & Stockpile/Salvage) BCD= blank Note: DOT/maintaining agency retains ownership

- B=Pad Volume
- 1 (0-1 YD3)
- 2 (1.1-3 YD3)
- 3 (>3 YD3)

- C=Cover
- 0 (without cover)
- 1 (with cover)

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>1080- 1A-BCC</th>
<th>UTILITY FIXTURES</th>
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<td>Notes</td>
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This pay item for Utility JPA projects Only
Additional fixtures to be added as needed. Submit Request through District Estimates Office.

Details and Structure: Items 1000 to 1999 (JPA Utility use only)
Tabulate all items in the plans.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

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<tr>
<th>Related Items</th>
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**Plan Detail and/or Tech Spec Required**

**Forms**
- PPM Chapter
- Other

**Documentation**
- Design
- Construction

**Related Items**
- SHTabQuant
- COMP 700-050-03
- Refer to Comp Book

**Status**

**TRNS*PORT Category (DRAFT FIELD): 0700 Utilities**

**Struct. 1080-1A-BCC**

**UTILITY FIXTURES**

**A**= Operation
- 1 (Furnish & Install)
- 2 (Furnish)
- 3 (Install)
- 4 (Relocate) BCC= blank
- 5 (Adjust /Modify) BCC= blank
- 6 (Remove & Dispose) Note: Contractor takes ownership, BCC= blank
- 7 (Remove & Stockpile/Salvage) Note: DOT/maintaining agency retains ownership, BCC= blank
- 8
- 9 OPEN Note: May be defined in item structure as Special, Rehab, etc.

**B**= Size or Equivalent Diameter
- 1 (0 - 1.9")*
- 2 (2.0 - 4.9")*
- 3 (5.0 - 7.9")*
- 4 (8.0 -19.9")
- 5 (20.0 - 49.9")
- 6 (50.0" or larger)

*NOTE: Fittings for pipe sizes up to 8" are included in the cost of the pipe. Fixtures, any size, may be paid under this item.

**CC**= Fixture
- 1 (Valve/Meter Box)
- 2 (Backflow Assembly)
- 3 (Tapping Saddle/Sleeve)
- 4 (Valve Assembly)
- 5 (Blowoff Assembly)
- 6 (VAC/AIR Assembly)
- 7 (Line Stop Assembly)
- 8 (Mechanical Joint Separator)
- 9 (Mechanical Joint Restraint)
10… submit request to expand structure
Note: CC list to be expanded as needed.

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
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<th>Item</th>
<th>Description</th>
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<th>Obsolete Date</th>
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**1135- A **

**UTILITY- GUYS AND ANCHORS- ABOVE GROUND**

**Notes**
This pay item for Utility JPA projects Only- NEW installations only.
Protection of existing structures during construction is incidental to the work being performed.
For ABOVE GROUND installations only.

**Details**

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<th>Description</th>
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**Details and Structure:** Items 1000 to 1999 (JPA Utility use only)
For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

### Related Items

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<th>Documentation</th>
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<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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**Standards**

**Specifications**

**Plan Detail and/or Tech Spec Required**

**Prep & Doc Manual Chapter(s)**

---

**TRNS*PORT Category (DRAFT FIELD):** 0700 Utilities

**Status** Inactive Structure

**Struct.** 1135- A

**UTILITY- GUYS AND ANCHORS- ABOVE GROUND**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Salvage & Store/Reuse)
5 (Adjust & Modify Or Relocate)
9 (Remove)

**Notes**

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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**Notes**

This pay item for Utility JPA projects Only Includes pump(s), power, internal piping, housing, and incidentals associated with the station.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

<table>
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**Details and Structure:** Items 1000 to 1999 (JPA Utility use only)
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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Notes

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.
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<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1644113 05</td>
<td>FIRE HYDRANT, F&amp;I, STANDARD, 2 HOSE, 1PUMPER, 2&quot;</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
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<td>$10,000.00</td>
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<tr>
<td>1644113 08</td>
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<td>1/1/2007</td>
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<td>1/1/2007</td>
<td></td>
<td>$3,906.00</td>
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<td>1644116 08</td>
<td>FIRE HYDRANT, STANDARD, F&amp;I, 3 WAY, 2 HOSE, 1 PUMPER, 6&quot;</td>
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<td>1/1/2007</td>
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<td>1644116 09</td>
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<td>1644136 08</td>
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<td>1644900</td>
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<td>$467.87</td>
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</tbody>
</table>
This pay item for Utility JPA projects Only
Plans or Technical Specifications must detail item, materials, construction/installation requirements, as well as compensation.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
<tr>
<td>Documentation</td>
<td>Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>References</th>
<th>PPM Chapter Other Standards Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Plan Detail and/or Tech Spec Required</td>
</tr>
</tbody>
</table>

**Prep & Doc Manual Chapter(s)**

**TRNS*PORT Category (DRAFT FIELD):** 0700 Utilities

**Struct. 1720-ABB-**

**UTILITY WORK- TRANSFORMER EA**

<table>
<thead>
<tr>
<th>A = Operation</th>
<th>1 (Furnish &amp; Install)</th>
<th>2 (Furnish)</th>
<th>3 (Install) BB=00</th>
<th>8 (Relocate) BB=00</th>
<th>9 (Remove) BB=00</th>
</tr>
</thead>
<tbody>
<tr>
<td>BB = Configurations</td>
<td>01 (25 kVA Continuous Single Phase)</td>
<td>02 (75 kVA Continuous Single Phase)</td>
<td>03 (250 kVA Continuous Single Phase)</td>
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<td></td>
</tr>
</tbody>
</table>

**Notes**

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<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>1720103</td>
<td>TRANSFORMER, F&amp;I, 250 KVA CONTINUOUS SINGLE PHASE</td>
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**1820- 1- AB**

**UTILITY CABLE, TELEPHONE/COMMUNICATIONS**

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
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<tbody>
<tr>
<td>LF; M1</td>
<td>Linear Foot; 10th of a Meter</td>
<td>no</td>
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</tbody>
</table>

**Notes**

This pay item for Utility JPA projects Only

**Details and Structure:** Items 1000 to 1999 (JPA Utility use only)
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<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
<tr>
<td>Documentation</td>
<td>Design</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
<tr>
<td>References</td>
<td>PPM Chapter</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Other</td>
<td></td>
</tr>
<tr>
<td>Standards</td>
<td>Specifications</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Plan Detail and/or Tech Spec Required</td>
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<tr>
<td>Prep &amp; Doc Manual Chapter(s)</td>
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**TRNS*PORT Category (DRAFT FIELD):** 0700 Utilities

**Status**

**Struct.** 1820- 1- AB

**UTILITY CABLE, TELEPHONE/COMMUNICATIONS**

<table>
<thead>
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<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>LF</td>
<td>T</td>
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<td>$3.27</td>
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<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1820 1 60</td>
<td>UTILITY CABLE, TELEPHONE/COMMUNICATIONS, REMOVE AND DISPOSE, CONTRACTOR TAKES OWNERSHIP</td>
<td>LF</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$3.27</td>
</tr>
</tbody>
</table>

**Notes**

Details and Structure: Items 1000 to 1999 (JPA Utility use only)
Details

This pay item for Utility JPA projects Only

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

Required                Recommended
Forms                  Design    SHTabQuant       COMP 700-050-03
                     Construction   Refer to Comp Book

Documentation

Design                      Construction   Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter
Other
Standards
Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD):  0700 Utilities

Status

Struct.  1820- 2- AB   UTILITY FIBER OPTIC, TELEPHONE/COMMUNICATIONS

Notes

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<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1820 2 60</td>
<td>UTILITY FIBER OPTIC, TELEPHONE COMMUNICATIONS, REMOVE &amp; DISPOSE, CONTRACTOR TAKES OWNERSHIP</td>
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Chapter 21

Master Pay Item List

Note date on report.
Designers should use current (online) report for latest information
Items added upon request. See Chapter 6 for details.
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