50- A- DESIGN / BUILD

Unit LS/LS Accuracy Lump Sum PlanQuantity? no

Notes
Details
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.

When multi-category work is called for, use the pay item structure that represents the largest percentage of the total dollars."

Estimators: Verify that contract type is CDB (Construction Design Build). When entering the pay item, 0 50- A-, use "zero, space, fifty, space, space, operation number", to correctly align pay item digits.

Forms and Documentation: Follow Design-Build Guidelines.

Related Items
Required 999- 25 (2999- 25) Recommended

Design Forms and Documentation
See Details Above
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation
No additional form required; use plans summary or comp book

References
PPM Chapter
Trns-port
Other Standards
Specifications

T: Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 11

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Struct. 50- A- DESIGN / BUILD LS/LS

A= Operation
1 (Resurfacing)
2 (Roadway Construction)
4 (Bridge Construction)
5 (Buildings/Toll Facilities/Rest Areas/Service Plaza)
6 (Traffic Operations)
7 (Rail)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
101- 1- MOBILIZATION

Unit LS/LS  Accuracy Lump Sum  PlanQuantity? yes

Notes

Details
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.

Related Items

Required

Recommended

Design Forms and Documentation

COMP 700-050-05: Lump Sum Quantities

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

Construction Forms and Documentation

No additional form required; use plans summary or comp book

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

References

PPM Chapter
Trns·port
Other Standards
Specifications Section 101

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

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.

Item Description Unit TSP/Detail Valid Date Obsolete Date
0101 1 MOBILIZATION LS T 1/1/2010

102- 1- MAINTENANCE OF TRAFFIC

Details and Structure: Items 000 to 1999
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.

**Unit** LS/DA  
**Accuracy** Lump Sum (Day)  
**PlanQuantity?** no

Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP 700-050-05: Lump Sum Quantities</td>
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</tr>
</tbody>
</table>

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

Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>No additional form required; use plans summary or comp book</td>
<td></td>
</tr>
</tbody>
</table>

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

### References

- **PPM Chapter**
- **Trns-port**
- **Other Standards** Index No. 600
- **Specifications** Section 102
- **Prep & Doc Manual Chapter(s)** 7, 13

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

**Struct.** 102-1 MAINTENANCE OF TRAFFIC LS/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>
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</thead>
<tbody>
<tr>
<td>0102</td>
<td>MAINTENANCE OF TRAFFIC</td>
<td>LS</td>
<td>1/1/2010</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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>

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.

Temporary Detour Bridge: When a temporary detour bridge is used, refer to index 21600 and instructions. The designer should include the following information in the plans: contact information, location (maintenance yard) of bridge components, and pick-up/delivery instructions.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design Forms</td>
<td>sumqrqd: Roadway Summary of Quantities Sheet</td>
<td></td>
</tr>
<tr>
<td>and</td>
<td>Locate in plans. Summarize quantities by location on summary sheet in the plans.</td>
<td></td>
</tr>
<tr>
<td>Documentation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Construction</td>
<td>No additional form required; use plans summary or comp book</td>
<td></td>
</tr>
<tr>
<td>Forms and</td>
<td>Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.</td>
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</tr>
<tr>
<td>Documentation</td>
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</tr>
</tbody>
</table>

**PPM Chapter**

**Trns-port**

**Other Standards**

**Specifications**

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

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

<table>
<thead>
<tr>
<th>Struct.</th>
<th>102- 2- AA</th>
<th>SPECIAL DETOUR</th>
<th>LS/LS</th>
</tr>
</thead>
<tbody>
<tr>
<td>AA = Detour Number</td>
<td>1 (First Detour Of Several)</td>
<td>2 (Second Detour Of Several)</td>
<td>3 (Third Detour Of Several)</td>
</tr>
<tr>
<td>N = 1 Thru 30</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>
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<tbody>
<tr>
<td>0102 2 1</td>
<td>SPECIAL DETOUR 1</td>
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<td>1/1/2010</td>
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<tr>
<td>0102 2 2</td>
<td>SPECIAL DETOUR 2</td>
<td>LS</td>
<td></td>
<td>1/1/2010</td>
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<td>SPECIAL DETOUR 3</td>
<td>LS</td>
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<td>1/1/2010</td>
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<td>0102 2 4</td>
<td>SPECIAL DETOUR 4</td>
<td>LS</td>
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<td>1/1/2010</td>
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</tr>
<tr>
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<td>SPECIAL DETOUR 5</td>
<td>LS</td>
<td></td>
<td>1/1/2010</td>
<td></td>
</tr>
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<td>0102 2 6</td>
<td>SPECIAL DETOUR 6</td>
<td>LS</td>
<td></td>
<td>1/1/2010</td>
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</tr>
<tr>
<td>0102 2 7</td>
<td>SPECIAL DETOUR 7</td>
<td>LS</td>
<td></td>
<td>1/1/2010</td>
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<td>0102 2 8</td>
<td>SPECIAL DETOUR 8</td>
<td>LS</td>
<td></td>
<td>1/1/2010</td>
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<td>0102 2 9</td>
<td>SPECIAL DETOUR 9</td>
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<td>1/1/2010</td>
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<td>0102 2 10</td>
<td>SPECIAL DETOUR 10</td>
<td>LS</td>
<td></td>
<td>1/1/2010</td>
<td></td>
</tr>
<tr>
<td>0102 2 11</td>
<td>SPECIAL DETOUR 11</td>
<td>LS</td>
<td></td>
<td>1/1/2010</td>
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</tbody>
</table>
### 102-3 Commercial Material for Driveway Maintenance

<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

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.

Quantity Estimation: 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, unless otherwise directed by the District Construction Office.

Per the specification, "The quantity to be paid for will be the certified volume, in cubic yards, of all materials authorized by the Engineer, acceptably placed and maintained for driveway maintenance. The volume, which is authorized to be reused, and which is acceptably salvaged, placed, and maintained in other designated driveways will be included again for payment."

#### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
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<tbody>
<tr>
<td>COMP 700-050-04: Volume Measure Items and Continuation</td>
<td>Locate in the plans. Summarize quantities by location in the computation book.</td>
</tr>
<tr>
<td>No additional form required; use plans summary or comp book</td>
<td>Contractor's Certification of Quantities must be submitted. Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
</tbody>
</table>

Details and Structure: Items 000 to 1999
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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</thead>
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<tr>
<td>0102 3</td>
<td>COMMERCIAL MATERIAL FOR DRIVEWAY MAINTENANCE</td>
<td>CY</td>
<td>1/1/2010</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**102-11-** SERVICE PATROL- ROAD RANGER OR SIMILAR

**Notes**

Used when it is determined during design that an active service patrol ("Road Ranger" or similar service) 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.

Coordinate services with District Office(s) that may have a Road Ranger service in effect-Maintenance, Operations, Construction, or other. Do not duplicate services that are available under a separate contract. Refer to Traffic Operations web page for additional information on Road Ranger services.

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>COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation</td>
<td></td>
</tr>
</tbody>
</table>

Locate in the plans. Summarize quantities by location in the computation book.

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book

Contractor's Certification of Quantities must be submitted. Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter
Trns-port
Struct.  102- 11- SERVICE PATROL- ROAD RANGER OR SIMILAR MH

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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</thead>
<tbody>
<tr>
<td>0102 11</td>
<td>SERVICE PATROL- ROAD RANGER OR SIMILAR</td>
<td>MH</td>
<td>D</td>
<td>1/1/2010</td>
<td></td>
</tr>
</tbody>
</table>

102- 14- TRAFFIC CONTROL OFFICER

Notes

Refer to 999-102 for Speed/Law Enforcement

Details

Provide uniformed traffic control officers, including marked law enforcement vehicles, to assist in controlling and directing traffic in the work zone ONLY when the following types of work is necessary on projects:

1 (through Dec 2011) traffic control in a signalized intersection when signals are not in use,
1* (effective January 2012) Directing traffic/overriding the signal in a signalized intersection.
2 when standard index no. 619 is used on Interstate roadway at nighttime and called for in the plans,
3 when standard index 655 Traffic Pacing for overhead work is called for in the plans or approved by the Engineer,
4 When pulling conductor/cable above an open traffic lane on limited access facilities, when called for in the plans or approved by the Engineer.

The Department will include pay item 102- 14 for officers directing traffic as defined above. Pay Item note/plan details are recommended to identify work in accordance with specification. DO NOT USE this pay item for "slowing traffic" or "as needed" law enforcement. For Speed and Law Enforcement officers, see pay item 999-102

*ESTIMATING GUIDANCE:

For signalized intersections being resurfaced, use 4 hours per each approach lane (through and turn) per lift. Do not count bike lanes or shoulders. The estimate includes the number of TCO hours needed for the operation of milling, sweeping, tacking, paving, installing temporary and permanent pavement markings, and installing loops/other vehicle detection devices.

For pacing operations, the number of officers varies by location/project conditions. Contact the District Construction Office for estimating guidance based on project conditions.

NOTE: This guidance does not include TCO hours at a signalized intersection for other types of work such as reconstruction, traffic signal components (other than loops), or for other situations specified under FDOT specification 102-7. Include additional hours for these activities.
PLAN DETAILS:
The specifications (summarized above) control when the 102-14 pay item will be used. The
designer may summarize the use of the pay item in the plans- as applicable to the project.
DO NOT expand or restrict the intent of the specification language with a plan note.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design Forms and Documentation</td>
<td>COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation</td>
<td>Locate in the plans. Summarize quantities by location in the computation book.</td>
</tr>
</tbody>
</table>

**CONSTRUCTION FORMS AND DOCUMENTATION**

No additional form required; use plans summary or comp book

Contractor’s Certification of Quantities must be submitted. Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**REFERENCES**

PPM Chapter
Trns-port
Other Standards Index No. 600, 619, 625, 655
Specifications Section 102
Prep & Doc Manual Chapter(s)

**TRANSPORT CATEGORY (DRAFT FIELD):**

<table>
<thead>
<tr>
<th>Struct.</th>
<th>102-14</th>
<th>TRAFFIC CONTROL OFFICER</th>
</tr>
</thead>
</table>

**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>
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</thead>
<tbody>
<tr>
<td>0102 14</td>
<td>TRAFFIC CONTROL OFFICER</td>
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</table>

**102- 60-**

**WORK ZONE SIGN**

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

**NOTES**

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.

Refer to PPM (Plans Preparation Manual) Vol 1, Chapter 10 for additional information.

Work zone sign systems must be listed on the QPL.

**RELATED ITEMS**

Required
Recommended

Details: Items 000 to 1999
Struct.  102- 60-  WORK ZONE SIGN  ED

Notes  Signs LESS THAN 20 ft² only- see details above

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>
</tr>
</thead>
<tbody>
<tr>
<td>0102 60</td>
<td>WORK ZONE SIGN</td>
<td>ED</td>
<td></td>
<td>1/1/2010</td>
<td></td>
</tr>
</tbody>
</table>

102- 61-  BUSINESS SIGN

Notes  Effective January 2011, not needed for resurfacing type projects. See detail below.

Details  Used to assist motorists with finding 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.

Effective January 2011: Per Index 600, Business entrance signs are intended to guide motorist to business entrances moved/modified or disturbed during construction projects. Business entrance signs are not required where there is minimal disruption to business driveways such as with resurfacing type projects.

Per the specifications, "Provide and place signs in accordance with the plans and Design Standards. The maximum sign size is 24 by 36 inches. Use signs with specific business names on each sign. Install logos provided by business owners and approved by the Engineer. Standard Business entrance signs meeting the requirements of Index 17355 without specific business names may be used only with the approval of the Engineer."

Related Items  Required  Recommended

Design Forms and Documentation  COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation

Locate in the plans. Summarize quantities by location in the computation book.
Contractor's Certification of Quantities must be submitted. 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>
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<th>TSP/Detail</th>
<th>Valid Date</th>
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<td>0102</td>
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<td>1/1/2010</td>
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</table>

**#102-71-AB TEMPORARY BARRIER WALL**

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
<th>Notes</th>
</tr>
</thead>
</table>
| LF; M1 | Linear Foot; 1/10 Meter | no | Included for the protection of the traveling public and workers. May be moved from one location to another on the project. Estimate length of wall needed for each phase, and then choose the maximum length anticipated for any one phase to be paid for as Temporary Barrier. Phasing in plans must indicate adequate quantity of barrier prior to calling for relocating of barrier. Add the estimated lengths for the remaining phases together and pay for under Barrier Wall (Temporary) Relocate. When this item is used, include lights or glare screen.

For example:
200 LF needed for phase 1 = 200 LF F&I
300 LF needed for phase 2 = 100 LF left in place from phase 1 (no movement; no payment) +100 LF Relocated from phase 1 +100 LF F&I
150 LF needed for phase 3 = 150 LF relocated from phase 2 (remaining quantity stockpiled; no payment)
400 LF needed for phase 4 = 300 LF relocated from earlier phase(s) or stockpile + 100 LF F&I
200 LF needed for phase 5 using phase 4 wall in existing location = 0 LF relocated (remaining quantity stockpiled, if needed for later use)
Note: No separate payment for "removal" or "stockpiling"

Maximum quantity F&I for above example: 400 LF
Relocate paid when moved to a new phase, NOT when removing or stockpiling.

QPL- Temporary barrier wall 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.

NOTE: For bridge applications, ONLY Type K permitted.
Type K Barriers, refer to Instructions for Design Standards, Index No. 411

Required
102- 79 or 102- 94-xab

Recommended
102- 81- 1, and/or 102- 89-xxa

Design Forms and Documentation
COMP 700-050-09: Linear Measure Comp with Components and Cont., or COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation

Locate in the plans. Summarize quantities by location in the computation book.

References
PPM Chapter
Trns-port
Other Standards Index No. 411, 412, 600
Specifications Section 102
Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

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) Index 412
4 (Type K) see details above

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>
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<th>Obsolete Date</th>
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<td>1/1/2010</td>
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<td>0102 71 12</td>
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<td>1/1/2010</td>
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<tr>
<td>0102 71 21</td>
<td>BARRIER WALL, TEMPORARY, RELOCATE, CONCRETE</td>
<td>LF</td>
<td></td>
<td>1/1/2010</td>
<td></td>
</tr>
<tr>
<td>0102 71 22</td>
<td>BARRIER WALL, TEMPORARY, RELOCATE, WATERFILLED</td>
<td>LF</td>
<td></td>
<td>1/1/2010</td>
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</tr>
<tr>
<td>0102 71 23</td>
<td>BARRIER WALL, TEMPORARY, RELOCATE, LOW PROFILE, CONCRETE</td>
<td>LF</td>
<td></td>
<td>1/1/2010</td>
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</tr>
</tbody>
</table>
102-73- TEMPORARY GUARDRAIL

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.

Per the specification, "The quantity to be paid for will be the length, in feet, of temporary guardrail constructed and certified as installed/used on the project. The length of a run of guardrail will be determined as a multiple of the nominal panel lengths."

Related Items

Design Forms and Documentation

COMP 700-050-09: Linear Measure Comp with Components and Cont., or COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation

Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation

No additional form required; use plans summary or comp book

Contractor's Certification of Quantities must be submitted. Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Trns-port

Other Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

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>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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<td>0102 73</td>
<td>TEMPORARY GUARDRAIL</td>
<td>LF</td>
<td></td>
<td>1/1/2010</td>
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</tbody>
</table>

102-74- A TEMPORARY BARRICADE/CHANNELIZING DEVICE

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/channelizing device (Type I, II, DI, VP, or Drum).
DI = Direction Indicator Barricade, shown on Index 600.
VP= Vertical Panel

Estimate for each Traffic Control Plan phase based on the type of operation and duration anticipated as follows: Quantity= (Length of Setup / Spacing) X Phase Duration.

### Related Items

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

### Design Forms and Documentation

COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation

Locate in the plans. Summarize quantities by location in the computation book.

### Construction Forms and Documentation

No additional form required; use plans summary or comp book

Contractor's Certification of Quantities must be submitted. Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References

PPM Chapter
Trns-port
Other Standards Index No. 600
Specifications Section 102
Prep & Doc Manual Chapter(s) 7, 13

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

### Struct.

<table>
<thead>
<tr>
<th>Item</th>
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<th>Valid Date</th>
<th>Obsolete Date</th>
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</thead>
<tbody>
<tr>
<td>0102 74 1</td>
<td>BARRICADE, TEMPORARY, TYPES I, II, DI, VP &amp; DRUM</td>
<td>ED</td>
<td>1/1/2010</td>
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<td></td>
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<tr>
<td>0102 74 2</td>
<td>BARRICADE, TEMPORARY, TYPE III, 6’</td>
<td>ED</td>
<td>1/1/2010</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<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>

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.

NOTE: Refer to specifications for acceptable types. Type B or C boards may be used for 0-50 mph; only Type C boards are acceptable for greater than 50 mph facilities.
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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<tbody>
<tr>
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<td>ARROW BOARD / ADVANCE WARNING ARROW PANEL</td>
<td>ED</td>
<td></td>
<td>1/1/2010</td>
<td></td>
</tr>
</tbody>
</table>

102- 77-
HIGH INTENSITY FLASHING LIGHT, TEMPORARY, TYPE B

**Notes**

Included as a safety device, to draw attention to the warning sign. The lights shall be mounted on the first advanced post mounted warning sign where only one sign is used, and on the first and second advanced post mounted 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.

Refer to the PPM for Warning Lights.

**Related Items**

**Required**

COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation

Locate in the plans. Summarize quantities by location in the computation book.

**Recommended**

No additional form required; use plans summary or comp book

Contractor's Certification of Quantities must be submitted. 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>
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<th>Valid Date</th>
<th>Obsolete Date</th>
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</thead>
<tbody>
<tr>
<td>0102 77</td>
<td>HIGH INTENSITY FLASHING LIGHTS, TEMP, TYPE B</td>
<td>EA</td>
<td>accuracy</td>
<td>Each</td>
<td>no</td>
</tr>
</tbody>
</table>

Notes

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

**Related Items**

Required

Recommended

**Design Forms and Documentation**

COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation

Locate in the plans. Summarize quantities by location in the computation book.

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book

Contractor’s Certification of Quantities must be submitted. Record final quantity on the tabulation sheet (plans) or computation form (comp book).
### Topic No. 600-000-002

#### Basis of Estimates

**February 20, 2012**

<table>
<thead>
<tr>
<th>Item</th>
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<tbody>
<tr>
<td>0102 78</td>
<td>TEMPORARY RETROREFLECTIVE PAVEMENT MARKER</td>
<td>EA</td>
<td>1/1/2010</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**102- 79-**

**TYPE C STEADY BURN LIGHT, TEMPORARY, BARRIER WALL MOUNT**

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

**Notes**

Details:

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).

Barrier mounted wall lights will not be required when glare screen is used.

**Related Items**

**Required** | **Recommended**

**Design Forms and Documentation**

- COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation

Locate in the plans. Summarize quantities by location in the computation book.

**Construction Forms and Documentation**

- No additional form required; use plans summary or comp book

Contractor's Certification of Quantities must be submitted. Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

**PPM Chapter**

**Trns-port**

**Other Standards** Index No. 411, 600  
**Specifications** Section 102

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

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

**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.

<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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</thead>
<tbody>
<tr>
<td>0102 79</td>
<td>LIGHTS,BARRIER WALL MOUNT,TEMP,TYPE C,STEADY BURN</td>
<td>ED</td>
<td>1/1/2010</td>
<td></td>
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</tr>
</tbody>
</table>

**102- 89-**

**TEMPORARY CRASH CUSHION**
Effective January 2012: Special Provision may apply with new pay item A=17. Refer to Estimates Bulletin 11-10.

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.

Through December 2011: All temporary crash cushions use A=7 Redirective Option.

Effective January 2012: Refer to Estimates Bulletin 11-10 and Mandatory Specification change. Special Provision SP1021312 and pay item 102-89-17 will be used "on projects with less than 50 crash cushions and one of the following work types: Add Lanes and Reconstruction, Add Lanes and Rehab pavement, Interchanges and new road construction."

Formerly known as "Impact Attenuators"

### Related Items

#### Design Forms and Documentation

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation</td>
<td>Locate in the plans. Summarize quantities by location in the computation book.</td>
</tr>
</tbody>
</table>

#### Construction Forms and Documentation

No additional form required; use plans summary or comp book

Contractor’s Certification of Quantities must be submitted. Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Trns port</th>
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<tr>
<td>See detail; Index No. 415, 430</td>
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</table>

<table>
<thead>
<tr>
<th>Standards</th>
<th>Specifications</th>
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<tbody>
<tr>
<td>Section 102</td>
<td></td>
</tr>
</tbody>
</table>

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

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

**Struct.** 102-89- A **TEMPORARY CRASH CUSHION**

A = Type
7 (Redirective Option)
17 (Redirective Option, less than 50) see details above

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>
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<th>Valid Date</th>
<th>Obsolete Date</th>
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</thead>
<tbody>
<tr>
<td>0102 89 7</td>
<td>TEMPORARY CRASH CUSHION, REDIRECTIVE OPTION</td>
<td>LO</td>
<td></td>
<td>1/1/2010</td>
<td></td>
</tr>
<tr>
<td>0102 89 17</td>
<td>TEMPORARY CRASH CUSHION, REDIRECTIVE OPTION, LESS THAN 50 AND WORK TYPES</td>
<td>LO</td>
<td></td>
<td>1/1/2010</td>
<td></td>
</tr>
</tbody>
</table>

### GLARE SCREEN

**102- 94- AB**

- **Unit**: LF; M1
- **Accuracy**: Linear Foot; 1/10 Meter
- **PlanQuantity?**: no

**Notes**

See barrier wall detail for measurement. This item is used with Temporary Barrier Wall (Concrete).

Refer to specification from QPL requirements.

When glare screen is used, barrier mounted lights will not be required.

**Related Items**

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

**Design Forms and Documentation**

COMP 700-050-09: Linear Measure Comp with Components and Cont., or COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation

Locate in the plans. Summarize quantities by location in the computation book.

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book

Contractor's Certification of Quantities must be submitted. Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter
Trns-port
Other Standards
Specifications Section 102
Prep & Doc Manual Chapter(s)

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

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Unit</th>
<th>Description</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>0102 98 1</td>
<td>EA</td>
<td>BARRICADE TYPE III- TO REMAIN, 6’</td>
<td></td>
<td>1/1/2010</td>
<td></td>
</tr>
</tbody>
</table>

**Notes**

- Should be considered for use in complex, high-density work zones. Messages must be simple, with a minimum number of words and lines, and should require no more than two displays of no more than three lines each. The Traffic Control Plan (TCP) shall include the location and messages to be displayed. Refer to the PPM for message guidelines and acceptable abbreviations.

**Details**

- **A** = Size
  - 2 (6 Feet)

**Design Forms and Documentation**

- COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation
  - Locate in the plans. Summarize quantities by location in the computation book.

- No additional form required; use plans summary or comp book
  - Contractor’s Certification of Quantities must be submitted. Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- PPM Chapter
- Trns-port
- Other Standards: Index No. 600
- Specifications: Section 102

**Prep & Doc Manual Chapter(s)**: 7, 13
Estimate the number needed for each traffic control plan phase, times the number of days needed (phase duration). May be used 14 days before contract time begins, as authorized by the Engineer. Not to be used when standard signs are available. Refer to the Plans Preparation Manual for proper usage.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
</tr>
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<tbody>
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<td>Design Forms and Documentation</td>
<td>COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation</td>
<td>Locate in the plans. Summarize quantities by location in the computation book.</td>
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</table>

| Construction Forms and Documentation | No additional form required; use plans summary or comp book | Contractor's Certification of Quantities must be submitted. Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

<table>
<thead>
<tr>
<th>References</th>
<th>PPM Chapter</th>
<th>Vol 1, Ch 10</th>
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<tr>
<td>Trns-port</td>
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<tr>
<td>Other Standards</td>
<td>Index No. 600</td>
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<td>Specifications</td>
<td>Section 102</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>

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

**Struct.** 102- 99- PORTABLE CHANGEABLE 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>
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<th>Valid Date</th>
<th>Obsolete Date</th>
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<tbody>
<tr>
<td>0102 99</td>
<td>PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY</td>
<td>ED</td>
<td></td>
<td>1/1/2010</td>
<td></td>
</tr>
</tbody>
</table>

**102-104- TEMPORARY SIGNALIZATION AND MAINTENANCE OF INTERSECTION**

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

**Notes**

*Effective with January 2012 letting & specification changes. Replaces 102-104-A*

**Details**

For existing intersections, the quantity to be paid for will be the number of signalized intersections (per each, per day) for the full duration of the Contract. For temporary intersections, the quantity to be paid for will be the number of signalized intersections per day for the duration of the temporary intersection. No separate payment will be made for temporary signalization and maintenance at new intersections.

For estimating purposes, the number of days for a temporary intersection will be based on the duration of the applicable Maintenance of Traffic (MOT) phase(s). For payment purposes, the actual number of days will be used.

Estimated Quantity = (# of existing intersections x estimated total contract days) + (# of temporary intersections x estimated # of days for temporary intersection)

Payment Quantity = (# of existing intersections x actual contract days) + (# of temporary intersections x actual # of days for temporary intersection)
NOTE: This pay item should be used on all projects with milling and resurfacing, and signalized intersections. For projects without milling and resurfacing, the designer or project manager should coordinate with the local agency to determine whether the contractor will be required to maintain the signalization equipment within the project limits. Per the specification, this pay item covers shifting signal heads, trouble calls, and maintaining intersection and coordination timing.

For most projects, use this pay item with 102-107-1 Temporary Detection and Maintenance

Traffic Control with portable signals used around a work area (signal lane closure, two-lane two way, work with in the travelway): When a pair of portable signals is used together to control traffic around a work area, the pair of signals should be considered one intersection. Refer to index 606 and/or detail in plans.

### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design Forms and Documentation</td>
<td>COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation</td>
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<tr>
<td></td>
<td>Locate in the plans. Summarize quantities by location in the computation book.</td>
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<tr>
<td>Construction Forms and Documentation</td>
<td>No additional form required; use plans summary or comp book</td>
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<tr>
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<td>Contractor’s Certification of Quantities must be submitted. 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>Trns·port</th>
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<tr>
<td>Index No. 606</td>
<td>Section 102</td>
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**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

### Struct.

102-104- TEMPORARY SIGNALIZATION AND MAINTENANCE OF INTERSECTION

### 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>1/1/2012</td>
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### 102-104- A TEMPORARY TRAFFIC CONTROL SIGNAL

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

**Notes**

Valid through 12-31-2011

**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></td>
<td></td>
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</tbody>
</table>
**Struct. 102-104-**

**A TEMPORARY TRAFFIC CONTROL SIGNAL**

A = Type
1. Portable
2. Fixed

Notes

Contractor's Certification of Quantities must be submitted. Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**Design Forms and Documentation**

COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation

Locate in the plans. Summarize quantities by location in the computation book.

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book

Contractor's Certification of Quantities must be submitted. Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter
Trns·port
Other
Standards Index No. 606
Specifications Section 102
Prep & Doc Manual Chapter(s) 7, 13

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

**Struct. 102-107-**

**TEMPORARY TRAFFIC DETECTION, INTERSECTION**

Unit DA Accuracy Day PlanQuantity? no

Notes

Valid through 12-31-2011; replaced by 102-107-1.

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.

Required

Recommended

Design Forms and Documentation

COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation

Locate in the plans. Summarize quantities by location in the computation book.

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book

Contractor's Certification of Quantities must be submitted. Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter
Trns·port
Other
Standards
Specifications Section 102
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

**102-107-1 TEMPORARY TRAFFIC DETECTION AND MAINTENANCE OF INTERSECTION**

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

**Notes**
Effective with January 2012 letting & specification changes. Replaces 102-107-

**Details**
For existing intersections, the quantity to be paid for will be the number of signalized intersections (per each, per day) beginning the day contract time begins and ending the day the permanent detection is operational and in the final lane configuration. For temporary and new intersections, the quantity to be paid for will be number of signalized intersections per day beginning the day the temporary detection is functional and ending the day the permanent detection is operational and in the final lane configuration for a new intersection or when the detection is removed for a temporary intersection.

For estimating purposes, the number of days for a temporary intersection will be based on the duration of the applicable Maintenance of Traffic (MOT) phase(s). For payment purposes, the actual number of days will be used.

Estimated Quantity = (# of existing intersections x estimated total contract days) + (# of temporary and new intersections x estimated days for temporary intersection)

Payment Quantity = (# of existing intersections x actual # of contract days until permanent detection is “operational and in the final lane configuration”) + (# of temporary and new intersections x actual # of days for temporary detection)

NOTE: This pay item should be used on all projects with milling and resurfacing, and signalized intersections. For projects without milling and resurfacing, the designer or project manager should coordinate with the local agency to determine whether the contractor will be required to maintain the signalization equipment within the project limits. Per the specification, the work included under this pay item includes maintenance of detection for existing intersections.

For most projects, use this pay item with 102-104 Temporary Signalization and Maintenance.

**Required**

**Related Items**

<table>
<thead>
<tr>
<th>Design Forms and Documentation</th>
<th>COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Locate in the plans. Summarize quantities by location in the computation book.</td>
</tr>
</tbody>
</table>

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book

Contractor’s Certification of Quantities must be submitted. Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter

Trns-port
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>
</tr>
</thead>
<tbody>
<tr>
<td>0102107</td>
<td>TEMPORARY TRAFFIC DETECTION AND MAINTENANCE, INTERSECTION</td>
<td>ED</td>
<td>1/1/2012</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**102-150- 1 PORTABLE REGULATORY SIGN**

<table>
<thead>
<tr>
<th>Notes</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>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.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design Forms and Documentation</td>
<td>COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation</td>
<td>Locate in the plans. Summarize quantities by location in the computation book.</td>
</tr>
</tbody>
</table>

| Construction Forms and Documentation | |
|--------------------------------------| |
| No additional form required; use plans summary or comp book |
| Contractor's Certification of Quantities must be submitted. Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

**References**

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Trns-port</th>
<th>Other Standards</th>
<th>Specifications</th>
<th>Prep &amp; Doc Manual Chapter(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Index No. 670</td>
<td>Section 102</td>
<td>6, 7, 13</td>
</tr>
</tbody>
</table>

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

**Struct.** 102-150- 1 PORTABLE REGULATORY SIGN ED
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>
</tr>
</thead>
<tbody>
<tr>
<td>0102150</td>
<td>PORTABLE REGULATORY, SIGN</td>
<td>ED</td>
<td>1/1/2010</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**102-150-2 RADAR SPEED DISPLAY UNIT**

**Unit**: ED  **Accuracy**: Each Day  **Plan Quantity?** no

**Notes**

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

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**

**Design Forms and Documentation**

COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation

Locate in the plans. Summarize quantities by location in the computation book.

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book

Contractor’s Certification of Quantities must be submitted. Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter

Trns-port

Other Standards Index No. 670

Specifications Section 102

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

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

**Struct.** 102-150-2 RADAR SPEED DISPLAY UNIT 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>
</tr>
</thead>
<tbody>
<tr>
<td>0102150</td>
<td>RADAR SPEED DISPLAY UNIT</td>
<td>ED</td>
<td>1/1/2010</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**102-910- TEMPORARY RAISED RUMBLE STRIP SET**

**Unit**: PS  **Accuracy**: Per Set  **Plan Quantity?** no

**Notes**

Effective January 2011 letting. Refer to specification and Index 600 for usage.
Prior to January 2011, payment is included in LS MOT. Effective January 2011, payment is made per set, when used as shown in Index 600. If no pay item is provided, include under LS MOT.

Per Index 600, Temporary raised rumble strip sets shall be placed in advance of each flagging station, when called for in the plans. They are used to supplement a series of advanced warning signs. There are 4 strips per set.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design Forms and Documentation</td>
<td>COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation</td>
<td>Locate in the plans. Summarize quantities by location in the computation book.</td>
</tr>
</tbody>
</table>

No additional form required; use plans summary or comp book

Contractor's Certification of Quantities must be submitted. 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>
<th>Valid Date</th>
<th>Obsolete Date</th>
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<tbody>
<tr>
<td>0102910</td>
<td>TEMPORARY RAISED RUMBLE STRIP SET PS</td>
<td>PS</td>
<td></td>
<td>1/1/2011</td>
<td></td>
</tr>
</tbody>
</table>

**Details**

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

OTHER (SF): Pay item 102-911- 3 (2102-911- 3) is used for stop bars, turn arrows, etc.

**Related Items**

<table>
<thead>
<tr>
<th>Design Forms and Documentation</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP 700-050-09: Linear Measure Comp with Components and Cont., or COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation</td>
<td>Locate in the plans. Summarize quantities by location in the computation book.</td>
<td></td>
</tr>
</tbody>
</table>
**Struct. 102-911- A \(\text{REMOVABLE TAPE PAVEMENT MARKING - WHITE/BLACK}\)**

A = Type  
1 (Skip) LF  
2 (Solid) LF  
3 (Other) 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>
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</thead>
<tbody>
<tr>
<td>0102911 1</td>
<td>PAVEMENT MARKING REMOVABLE TAPE, WHITE-BLACK, SKIP</td>
<td>LF</td>
<td>1/1/2010</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0102911 2</td>
<td>PAVEMENT MARKING REMOVABLE TAPE, WHITE-BLACK, SOLID</td>
<td>LF</td>
<td>1/1/2010</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0102911 3</td>
<td>PAVEMENT MARKING REMOVABLE TAPE, WHITE-BLACK, OTHER</td>
<td>SF</td>
<td>1/1/2010</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**102-912- A \(\text{REMOVABLE TAPE PAVEMENT MARKING - YELLOW}\)**

Notes

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

Related Items

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

Design Forms and Documentation

COMP 700-050-09: Linear Measure Comp with Components and Cont., or COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation

Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation

No additional form required; use plans summary or comp book

Contractor's Certification of Quantities must be submitted. Record final quantity on the tabulation sheet (plans) or computation form (comp book).
**Struct. 102-912- A REMOVABLE TAPE PAVEMENT MARKING - YELLOW LF; SF**

A = Type
1 (Skip) LF
2 (Solid) LF
3 (Other) 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>
</tr>
</thead>
<tbody>
<tr>
<td>0102912 1</td>
<td>PAVT MARKING REMOVABLE TAPE, YELLOW, SKIP</td>
<td>LF</td>
<td></td>
<td>1/1/2010</td>
<td></td>
</tr>
<tr>
<td>0102912 2</td>
<td>PAVEMENT MARKING REMOVABLE TAPE, YELLOW, SOLID</td>
<td>LF</td>
<td></td>
<td>1/1/2010</td>
<td></td>
</tr>
<tr>
<td>0102912 3</td>
<td>PAVEMENT MARKING REMOVABLE TAPE, YELLOW, OTHER</td>
<td>SF</td>
<td></td>
<td>1/1/2010</td>
<td></td>
</tr>
</tbody>
</table>

**103- 1- A TEMPORARY WORK STRUCTURE**

<table>
<thead>
<tr>
<th>Notes</th>
<th>Monitor: Tom Andres</th>
</tr>
</thead>
<tbody>
<tr>
<td>Details</td>
<td>This item is monitored by the State Structures Design Office. Coordinate with the structures 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.</td>
</tr>
<tr>
<td>Related Items</td>
<td>Required</td>
</tr>
<tr>
<td>Design Forms and Documentation</td>
<td>COMP 700-050-05: Lump Sum Quantities</td>
</tr>
</tbody>
</table>
No additional form required; use plans summary or comp book

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

References
PPM Chapter
Trns port
Other
Specifications Section 103

Notes
M: Monitored Item
Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Struct. 103- 1- A TEMPORARY WORK STRUCTURE LS/LS

A= Project Number
1 (valid through 12-31-2008; for any project)
2…next number (project number, as approved by State Structures Design 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>
<th>Valid Date</th>
<th>Obsolete Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>0103</td>
<td>TEMPORARY WORK STRUCTURE, PROJECT NUMBER 218946-1-52-01</td>
<td>LS M</td>
<td>1/1/2010</td>
<td>12/31/2013</td>
<td></td>
</tr>
</tbody>
</table>

104- 1- ARTIFICIAL COVERINGS/ROLLED EROSION CONTROL PRODUCTS

Unit SY; M2 Accuracy Square Yard; Square Meter PlanQuantity? no

Notes
This item may be used for several purposes. Estimate and/or calculate according to the following information. The total quantity is the sum used for the applicable purposes below. Tabulate the quantity and purpose of each in the plans. Install the product(s) in accordance with the Erosion and Sediment Control Manual.

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).

FOR DRAINAGE CHANNEL: Use the E&SC Manual Selection Guide to determine the correct product type. Shear Stress and velocity calculations must be completed, as shown in the E&SC manual.
### 0104 1  ARTIFICIAL COVERINGS/ROLLED EROSION CONTROL PRODUCTS

**Unit**: Linear Foot; 1/10 Meter  
**Accuracy**: PlanQuantity?  
**Notes**: Pay Item Description changed to Runoff Control Structure. Refer to Specification for current usage.

**Details**
Refer to the Erosion and Sediment Control manual (E&SC manual) for correct use of this item. Runoff Control Structures include temporary slope drains and check dams. All items shown in the manual or design standard are included in the payment, per length, along the centerline of the structure.

**Related Items**
- **Required**: 104-5, 575-5 (2104-5, 2575-5)
- **Recommended**: sumqem: EMO Summary of Quantities Sheet

**Design Forms and Documentation**
- Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**
- No additional form required; use plans summary or comp book

**References**
- PPM Chapter
- Trans-port
- Other Standards
- Specifications Section 104
- Prep & Doc Manual Chapter(s) 6, 7, 13

---

### 104-6 TEMPORARY SLOPE DRAIN / RUNOFF CONTROL STRUCTURE

**Unit**: LF; M1  
**Accuracy**: Linear Foot; 1/10 Meter  
**Notes**: Pay Item Description changed to Runoff Control Structure. Refer to Specification for current usage.

**Details**
Refer to the Erosion and Sediment Control manual (E&SC manual) for correct use of this item. Runoff Control Structures include temporary slope drains and check dams. All items shown in the manual or design standard are included in the payment, per length, along the centerline of the structure.

**Related Items**
- **Required**: 104-5, 575-5 (2104-5, 2575-5)
- **Recommended**: sumqem: EMO Summary of Quantities Sheet

**Design Forms and Documentation**
- Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**
- No additional form required; use plans summary or comp book

**References**
- PPM Chapter
- Trans-port
### 0104 6 TEMPORARY SLOPE DRAIN / RUNOFF CONTROL STRUCTURE

#### 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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</thead>
<tbody>
<tr>
<td>0104 6</td>
<td>TEMPORARY SLOPE DRAIN / RUNOFF CONTROL STRUCTURE</td>
<td>LF</td>
<td></td>
<td>1/1/2010</td>
<td></td>
</tr>
</tbody>
</table>

### 104- 7- SEDIMENT BASIN/CONTAINMENT SYSTEM

#### Notes

Refer to Estimates Bulletin 09-02 and E&SC manual for correct usage.

Refer to the Erosion and Sediment Control manual (E&SC manual) for correct use of this item. These systems work to retain sediment, as well as to slow water velocities. Payment will include all items shown in the plans or E&SC manual, for a complete system.

Cleanings to maintain the system will be paid under pay item 104-9.

#### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>104- 9-</td>
<td>(2104- 9-)</td>
</tr>
</tbody>
</table>

#### Design Forms and Documentation

- sumqem: EMO Summary of Quantities Sheet
- Locate in plans. Summarize quantities by location on summary sheet in the plans.

#### Construction Forms and Documentation

- No additional form required; use plans summary or comp book
- Record final quantity on the tabulation sheet (plans) or computation form (comp book).

#### References

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Trns-port</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other Standards</td>
<td>Index No. 101, 241</td>
</tr>
<tr>
<td>(see Index modifications for July 2010; Index 101 is deleted)</td>
<td></td>
</tr>
<tr>
<td>Specifications</td>
<td>Section 104</td>
</tr>
<tr>
<td>Prep &amp; Doc Manual Chapter(s)</td>
<td>7, 13</td>
</tr>
</tbody>
</table>
**SEDIMENT BASIN/CONTAINMENT SYSTEM-CLEANOUT**

<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**

Refer to Estimates Bulletin 09-02 and E&SC manual for correct usage.

**Details**

Estimate one cleanout per sediment Basin/Containment system, Item 104-7 (2104-7), on the project.

Sediment shall be removed or "cleaned-out" from the basin/containment system, as indicated in the plans, or as directed by the Engineer. Actual number of cleanings will depend on project conditions, as necessary to maintain the containment system(s).

**Related Items**

Required: 104-7 (2104-7-)

Recommended: 104-7 (2104-7-)

**Design Forms and Documentation**

sumqem: EMO Summary of Quantities Sheet

Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book

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

**References**

PPM Chapter

Trnsport

Other Standards

Index No. 101

(see Index modifications for July 2010; Index 101 is deleted)

Specifications

Section 104

Prep & Doc Manual Chapter(s)

6, 7, 13

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

**SEDIMENT BASIN/CONTAINMENT SYSTEM-CLEANOUT**

**Notes**

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

**SEDIMENT BARRIER**

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>LF; M1</td>
<td>Linear Foot; 1/10 Meter</td>
<td>no</td>
</tr>
</tbody>
</table>

**Notes**

See details below for estimating quantities.

Effective with the January 2010 letting, New Item to replace 104-10-2 Synthetic Bales and 104-13- Staked Silt Fence. Refer to Estimates Bulletin 09-02.

**Details**

To be used in accordance with the Erosion and Sediment Control Manual to protect against downstream accumulation of sediment. Includes synthetic bales, silt fence, and...
other similar materials shown in the manual. Refer to the manual for examples of appropriate and inappropriate use of materials.

Payment is made per length of material, for each location on the project, regardless of whether the materials are new or relocated. The contractor must maintain the sediment barrier, by removing sediment, throughout the installed life of the product. No separate payment is made for maintaining the barrier. Refer to the specification for complete payment information.

DO NOT include pay item notes for "based on replacement every xx months"; payment includes maintenance of the product in the specified locations, until permanent erosion control features are in place.

DO NOT USE this pay item for curb inlets or ditch bottom inlet protection; see pay item 104-18.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>sumqem: EMO Summary of Quantities Sheet</td>
<td>Locate in plans. Summarize quantities by location on summary sheet in the plans.</td>
</tr>
<tr>
<td>No additional form required; use plans summary or comp book</td>
<td></td>
</tr>
</tbody>
</table>

**Design Forms and Documentation**

**References**

PPM Chapter
Trns·port
Other Standards
Specifications Section 104
Prep & Doc Manual Chapter(s)

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

**Struct. 104-10-3 SEDIMENT BARRIER 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>
</tr>
</thead>
<tbody>
<tr>
<td>0104 10 3</td>
<td>SEDIMENT BARRIER</td>
<td>LF</td>
<td>1/1/2010</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**104-11-A FLOATING TURBIDITY BARRIER**

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>LF; M1</td>
<td>Linear Foot; 1/10 Meter</td>
<td>no</td>
</tr>
</tbody>
</table>

**Notes**

To be used in accordance with the Erosion and Sediment Control Manual. Common uses include areas where dredging, filling or other construction activities may cause turbidity in water. Also refer to Design Standard Index 103, and any applicable permit requirements.

Per the specifications, each location is paid per length, regardless of whether the barrier is new, used, or relocated from a previous location. The designer should estimate the quantity based on the tabulated length at each location.
### Related Items

**Design Forms and Documentation**
- Required: sumqem: EMO Summary of Quantities Sheet
- Recommended: Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**
- Required: No additional form required; use plans summary or comp book
- Recommended: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References

**PPM Chapter**
- Trns-port
- Other Standards: Index No. 103
  - (see Index modifications for July 2010; Index 103 is deleted)

**Specifications**
- Section 104

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

---

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

#### 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.

<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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</thead>
<tbody>
<tr>
<td>0104 11</td>
<td>FLOATING TURBIDITY BARRIER</td>
<td>LF</td>
<td></td>
<td>1/1/2010</td>
<td></td>
</tr>
</tbody>
</table>

---

#### Struct.  104- 12- A STAKED TURBIDITY BARRIER- NYLON REINFORCED PVC

- Unit: LF; M1
- Accuracy: Linear Foot; 1/10 Meter
- PlanQuantity: no

**Notes**

To be used in accordance with the Erosion and Sediment Control Manual and the Design Standards. This item is commonly used in areas where continuous construction activities change the natural contour and drainage runoff. Refer to Design Standard Index 106. Note that the material required by the standard is nylon reinforced PVC. (Geotextile fabric, such as silt fence, is not a substitute for this item.)

---

**Related Items**

**Design Forms and Documentation**
- Required: sumqem: EMO Summary of Quantities Sheet
- Recommended: Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**
- Required: No additional form required; use plans summary or comp book
- Recommended: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

**PPM Chapter**
- Trns-port
- Other Standards: Index No. 103
  - (see Index modifications for July 2010; Index 103 is deleted)
Specifications Section 104
Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Struct. 104-12- A STAKED TURBIDITY BARRIER- NYLON REINFORCED PVC

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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<td>0104 12</td>
<td>STAKED TURBIDITY BARRIER- NYLON REINFORCED PVC</td>
<td>LF</td>
<td>1/1/2010</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

104-15- SOIL TRACKING PREVENTION DEVICE

Unit EA Accuracy Each PlanQuantity? no

Notes

Details

Shall 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

Design Forms and Documentation

sumqem: EMO Summary of Quantities Sheet
Locate in plans. Summarize quantities by location on summary sheet in the plans.

Construction Forms and Documentation

No additional form required; use plans summary or comp book
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter
Trns-port
Other Standards Index No. 106
(see Index modifications for July 2010; Index 106 is deleted)
Specifications Section 104
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.

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<tr>
<th>Item</th>
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<tr>
<td>0104 15</td>
<td>SOIL TRACKING PREVENTION DEVICE</td>
<td>EA</td>
<td></td>
<td>1/1/2010</td>
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</table>

**104-17- SAND FENCE**

**Notes**
Temporary fence for sand locations, used for erosion control purposes.

**Details**
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.

**Related Items**

**Required**

**Recommended**

**Design Forms and Documentation**
sumqem: EMO Summary of Quantities Sheet
Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**
No additional form required; use plans summary or comp book
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter
Trns-port
Other Standards
Specifications Section 104

**T: Plan Details and/or Technical Specifications required**

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

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

**Struct.** 104-17- SAND FENCE 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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<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<tbody>
<tr>
<td>0104 17</td>
<td>SAND FENCE</td>
<td>LF</td>
<td>T</td>
<td>1/1/2010</td>
<td></td>
</tr>
</tbody>
</table>

**104-18- INLET PROTECTION SYSTEM**

**Notes**
New item effective January 2010, per Estimates Bulletin 09-02.

**Details**
This item is to be used in accordance with the Erosion and Sediment Control Manual for the protection of inlets. Payment per each inlet includes all work and materials shown in the E&SC manual, or as detailed in the plans, for a complete system. Curb Inlet filters, such as GutterBuddy, GutterGator, and similar are included in this pay item. Ditch Bottom inlet protection systems ("caps", barriers, and other materials, as shown in the manual) are also included in this pay item.
Required

Recommended

Design Forms and Documentation

sumqem: EMO Summary of Quantities Sheet

Locate in plans. Summarize quantities by location on summary sheet in the plans.

Construction Forms and Documentation

No additional form required; use plans summary or comp book

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

References

PPM Chapter

Trns-port

Other Standards

Specifications Section 104

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Struct. 104-18- INLET PROTECTION SYSTEM 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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<tr>
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</table>

104-19- CHEMICAL TREATMENT- POWDERED (For Erosion Control)

<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

New item effective January 2010, per Estimates Bulletin 09-02.

Details

This item is to be used in accordance with the Erosion and Sediment Control Manual.

Polyacrylamides and Aluminum Sulfate are used to “clarify turbid or sediment laden water that does not yet meet surface water quality standards… or as an amendment to other erosion prevention and sediment control products, to aid in their performance.” This pay item is typically used for soil stabilization in conjunction with Rolled Erosion Control Products (RECP); designers should estimate the same amount of area used for RECPs. The product must be installed in accordance with the chemical manufacturer’s suggested application rate.

Related Items

Required

Recommended

Design Forms and Documentation

sumqem: EMO Summary of Quantities Sheet

Locate in plans. Summarize quantities by location on summary sheet in the plans.

Construction Forms and Documentation

No additional form required; use plans summary or comp book

References

PPM Chapter

Trns-port
Standards
Specifications Section 104
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Struct.  104-19- CHEMICAL TREATMENT- POWDERED (For Erosion Control)

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>
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</thead>
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<tr>
<td>0104 19</td>
<td>CHEMICAL TREATMENT- POWDERED, FOR EROSION CONTROL</td>
<td>SY</td>
<td>1/1/2010</td>
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</tbody>
</table>

104-20- CHEMICAL TREATMENT- FLOC LOGS, ALUM DRUMS (For Erosion Control)

Notes

New item effective January 2010, per Estimates Bulletin 09-02.

CONTACT THE MONITOR- Larry Ritchie, Environmental Specialist, State Construction Office.

Details

Coordinate the use of this item with the State Construction Office.

This item is to be used in accordance with the Erosion and Sediment Control Manual.

The 104-20 pay item is considered a Contractor’s option for sediment control on the project site. It is typically used in conjunction with water treatment systems constructed by the contractor to control sediment that results from project specific issues. Do not use in design without contacting Larry Ritchie, Environmental Specialist, in the State Construction Office.

Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design Forms and Documentation</td>
<td>sumqem: EMO Summary of Quantities Sheet</td>
</tr>
<tr>
<td>Locate in plans. Summarize quantities by location on summary sheet in the plans.</td>
<td></td>
</tr>
</tbody>
</table>

Construction Forms and Documentation

No additional form required; use plans summary or comp book

References

PPM Chapter
Trns*port
Other Standards
Specifications Section 104
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Struct.  104-20- CHEMICAL TREATMENT- FLOC LOGS, ALUM DRUMS EA
(For Erosion Control)

Notes
DO NOT USE WITHOUT APPROVAL OF THE MONITOR- Environmental Specialist, State Construction 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>Obsolete Date</th>
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<td>0104</td>
<td>CHEMICAL TREATMENT - FLOC LOGS, ALUM DRUMS</td>
<td>EA</td>
<td>1/1/2010</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 107- 1-
LITTER REMOVAL AND DISPOSAL

#### Notes
**Effective July 2010, with new 107 Specification. Refer to Estimates/Roadway Design Bulletin for additional information.**

#### Details
Estimate the area for each phase, based on the Temporary Traffic Control plans. Use the total area of existing and proposed turf or vegetation to be mowed within the project limits. It is not necessary to adjust for inlets, drains, slopes, small variations in tree lines, etc.

**Estimate one litter removal and mowing cycle per 30 days, or at 15 day increments (e.g. 30 days, 45 days, or 60 days), for the duration of the project. Do not adjust the estimated number of cycles for growing season, special events, or project location; these will be adjusted by the engineer during construction, as needed. NOTE: 30 days is the minimum number of days, unless otherwise recommended by District policy.**

Use a summary table in the plans to show the duration, estimated area, mowing frequency, and estimated number of cycles for each phase and the estimated total area. Use a minimum of 1 cycle per phase; after dividing the cycle duration by the frequency, round to the nearest cycle.

Payment will be based on the area calculated by the Engineer, per litter removal or mowing cycle.

**PQ Additional comments:** If the contractor changes phasing, the CEI will still base the payment for that mowing and litter removal cycle by determining the “actual area completed and accepted...determined by calculation using the lengths and widths based on the station to station dimensions shown in the plans.” This means that the CEI will figure the area the contractor mowed (or is supposed to mow) by measurements on the plans...i.e., the approximate width mowed on each side times the length, less any areas deducted by engineer (areas not mowed). While this is a final calculation determination of pay area, per 9-1.3, the dimensions should be determined from the plans, rather than field measured, per the 107 spec.

If the number of cycles changes (due to wet or dry weather conditions, grass height, or other), payment will be made for the actual area and number of cycles completed.

While litter removal is normally completed prior to mowing, It is possible to have additional litter cycles (without mowing cycles), when directed by the Engineer.

Urban Areas without mowing: Do not include litter removal pay item without

*******

Mowing/Litter removing contracts separate from construction contracts: When there is an overlap of responsibilities between a construction contract and a maintenance contract, refer to Topic 850-000-005, “Maintenance Responsibilities on Construction Projects”. Do not include duplicate mowing/litter removal pay items on the construction contract. Mowing
& litter removal operations will be coordinated through the Resident Engineer and the District Maintenance Engineer.

********************
TRNSPORT: For projects with federal funds, this item will appear a "non-participating". For projects without federal funds, no funding flag is needed.

Related Items

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

Design Forms and Documentation

| SBLitterMowing: Summary of Litter Removal and Mowing |
| Locate in plans. Summarize quantities by location on summary sheet in the plans. |

Construction Forms and Documentation

| No additional form required; use plans summary or comp book |
| Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

References

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>PPM Vol 2, 7.4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trns-port</td>
<td>This item will default to &quot;non-participating&quot; on projects with Federal Funds.</td>
</tr>
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</table>

Other Standards

Specifications Section 107

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Struct. 107- 1-  LITTER REMOVAL AND DISPOSAL  AC

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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<tr>
<td>0107 1</td>
<td>LITTER REMOVAL</td>
<td>AC</td>
<td></td>
<td>7/1/2010</td>
<td></td>
</tr>
</tbody>
</table>

107- 2-  MOwing

Unit AC; HA  Accuracy 1/10 Acre; 1/10 Hectare  PlanQuantity? no*

Notes


Details

Estimate the area for each phase, based on the Temporary Traffic Control plans. It is not necessary to adjust for inlets, drains, slopes, small variations in tree lines, etc.

Estimate one litter removal and mowing cycle, at 15 day increments (e.g. 30 days, 45 days, or 60 days), for the duration of the project. Do not adjust the estimated number of cycles for growing season, special events, or project location; these will be adjusted by the engineer during construction, as needed.

Use a summary table in the plans to show the duration, estimated area, mowing frequency, and estimated number of cycles for each phase and the estimated total area. Use a minimum of 1 cycle per phase; after dividing the phase duration by the frequency, round to the nearest cycle.

Payment will be based on the area calculated by the Engineer, per litter removal or mowing cycle.
*PQ Additional comments: If the contractor changes phasing, the CEI will still base the payment for that mowing and litter removal cycle by determining the “actual area completed and accepted…determined by calculation using the lengths and widths based on the station to station dimensions shown in the plans.” This means that the CEI will figure the area the contractor mowed (or is supposed to mow) by measurements on the plans...i.e., the approximate width mowed on each side times the length, less any areas deducted by engineer (areas not mowed). While this is a final calculation determination of pay area, per 9-1.3, the dimensions should be determined from the plans, rather than field measured, per the 107 spec.

If the number of cycles changes (due to wet or dry weather conditions, grass height, or other), payment will be made for the actual area and number of cycles completed.

While litter removal is normally completed prior to mowing, it is possible to have additional litter cycles (without mowing cycles), when directed by the Engineer.

*************
Mowing/Litter removing contracts separate from construction contracts: When there is an overlap of responsibilities between a construction contract and a maintenance contract, refer to Topic 850-000-005, “Maintenance Responsibilities on Construction Projects”. Do not include duplicate mowing/litter removal pay items on the construction contract. Mowing & litter removal operations will be coordinated through the Resident Engineer and the District Maintenance Engineer.

***************
TRNSPORT: For projects with federal funds, this item will appear a “non-participating”. For projects without federal funds, no funding flag is needed.

<table>
<thead>
<tr>
<th>Required</th>
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<tr>
<td>SBLitterMowing: Summary of Litter Removal and Mowing</td>
<td>Locate in plans. Summarize quantities by location on summary sheet in the plans.</td>
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<table>
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<tr>
<td>No additional form required; use plans summary or comp book</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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<td>PPM Vol 2, 7.4</td>
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<tr>
<td>Trns-port</td>
<td>This item will default to “non-participating” on projects with Federal Funds.</td>
</tr>
<tr>
<td>Other Standards</td>
<td>Specifications</td>
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</table>

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

**Struct.** 107- 2- MOIVING AC

**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>7/1/2010</td>
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<tr>
<td>Unit</td>
<td>DA</td>
<td>Accuracy</td>
<td>Day</td>
<td>PlanQuantity?</td>
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<tr>
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</table>

**Notes**

Effective January 2012 letting- note change in number of days before contract time begins.

**Details**

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.

Through December 2011 letting, per the specifications, "Provide a Field Office for Department use beginning 10 calendar days before contract time begins, and remain for 30 days after final acceptance, unless the Department request removal earlier."

Effective January 2012 letting, per the specifications, "Provide a Field Office for Department use beginning 30 calendar days before contract time begins, and remain for 30 days after final acceptance, unless the Department request removal earlier."

**Related Items**

<table>
<thead>
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<th>Required</th>
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</table>

**Design Forms and Documentation**

COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation

Locate in the plans. Summarize quantities by location in the computation book.

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book

Record final quantity on the computation book form.

**References**

PPM Chapter

Trns-port

Other

Standards Index No. 802

Specifications Section 109

Prep & Doc Manual Chapter(s) 7, 13

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

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

<table>
<thead>
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<th>A = Size</th>
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<tbody>
<tr>
<td>1 (300 Sq ft)</td>
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<tr>
<td>2 (600 Sq ft)</td>
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<tr>
<td>3 (900 Sq ft)</td>
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</tr>
<tr>
<td>4 (1200 Sq ft)</td>
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<tr>
<td>5 (1500 Sq ft)</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.
CLEARING AND GRUBBING

**Unit**: LS/AC; LS/HA  
**Accuracy**: Lump Sum (1/100 Acre); Lump Sum (1/100 Hectare)  
**Plan Quantity?**: yes

**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.

Refer to Pay Item 110-4 for removal of concrete pavement, sidewalk, curb and gutter, etc.

Refer to specifications for guidance "when no direct payment is provided" for clearing and grubbing.

**Related Items**

**Required**

**Recommended**

**Design Forms and Documentation**

COMP 700-050-05: Lump Sum Quantities  
Use a quantity of 1, but calculations and computation book documentation must be to the second unit of measure. Locate or define the scope of work involved on the plans.

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book  
Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**

PPM Chapter  
Trns-port  
Other Standards  
Specifications Section 110  
Prep & Doc Manual Chapter(s) 7, 13

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

**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.

**Item**

**Description**

**Unit**

**TSP/Detail**

**Valid Date**

**Obsolete Date**

0110 1 1 CLEARING & GRUBBING  
LS  
1/1/2010  

Details and Structure: Items 000 to 1999
### 110-2-1 CLEARING AND GRUBBING (PUSH BUTTON CONTRACT)

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC; HA</td>
<td>1/10 Acre; 1/10 Hectare</td>
<td>no</td>
</tr>
</tbody>
</table>

**Notes**

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**

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

**Design Forms and Documentation**

COMP 700-050-01: Area Computation and Continuation

Locate in the plans. Summarize quantities by location in the computation book.

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book

Record final quantity on the computation book form.

**References**

PPM Chapter
Trns·port
Other Standards
Specifications

T: Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

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

**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>
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<tr>
<td>0110 2 1</td>
<td>CLEARING &amp; GRUBBING (PUSH BUTTON CONTRACT)</td>
<td>AC</td>
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<td>1/1/2010</td>
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### 110-3- REMOVAL OF EXISTING STRUCTURE

<table>
<thead>
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<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS/SF; LS/M2</td>
<td>Lump Sum (Square Foot);</td>
<td>yes</td>
</tr>
<tr>
<td></td>
<td>Lump Sum (Square Meter)</td>
<td></td>
</tr>
</tbody>
</table>

**Notes**

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 are 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. Detail 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.).

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design Forms and Documentation</td>
<td>COMP 700-050-05: Lump Sum Quantities</td>
<td>Use a quantity of 1, but calculations and computation book documentation must be to the second unit of measure. Locate or define the scope of work involved on the plans.</td>
</tr>
<tr>
<td>Construction Forms and Documentation</td>
<td>No additional form required; use plans summary or comp book</td>
<td>Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.</td>
</tr>
</tbody>
</table>

**References**
- PPM Chapter
- Trns-port
- Other Standards
- Specifications Section 110
- Prep & Doc Manual Chapter(s) 6, 13

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

**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>
</tr>
</thead>
<tbody>
<tr>
<td>0110 3</td>
<td>REMOVAL OF EXISTING STRUCTURE</td>
<td>LS</td>
<td>1/1/2010</td>
<td></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 removal of flexible pavement removal under this item.

Guidance: When is payment included under Clearing and Grubbing? When is Removal of Existing Concrete Pavement needed?
Consider project specific conditions:
If curb & gutter, sidewalk, etc. would likely be removed during standard clearing and
grubbing operations (widening projects), then payment could be included in pay item 110-1. No separate payment is needed.

If the project involves removal of concrete pavement, sidewalk, etc., without the broad removal of items normally considered standard clearing and grubbing, then the Removal of Existing Pavement item might be the best choice. The square yard measurement would be clearly defined for these areas.

If the project involves replacement of a section of sidewalk and/or curb, the “no direct payment” option might be best; payment would be included in the cost for the new item(s).

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>
</tr>
</thead>
<tbody>
<tr>
<td>0110 4</td>
<td>REMOVAL OF EXISTING CONCRETE PAVEMENT</td>
<td>SY</td>
<td>1/1/2010</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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…”

The Each pay item is to be used for caps placed on the well. Specifications or plan details are required to detail cap dimensions, materials, and installation instructions.

If the well is to be plugged with flowable fill or similar material, detail work and materials in the contract documents. Tabulate the approximate volume of material to be included in the payment for plugging each well.
Standards
Specifications
Section 110

Struct. 110-5- PLUGGING WATER WELL- ARTESIAN EA

Notes
Record final quantity on the computation book form.

Design Forms and Documentation
COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation
No additional form required; use plans summary or comp book
Record final quantity on the computation book form.

References
PPM Chapter
Trans-port
Other
Standards
Specifications Section 110
Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Struct. 110-5- PLUGGING WATER WELL- ARTESIAN 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>
</tr>
</thead>
<tbody>
<tr>
<td>0110 5</td>
<td>PLUGGING WATER WELLS, ARTESIAN</td>
<td>EA</td>
<td>1/1/2010</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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."

Details
The Each pay item is to be used for caps placed on the well. Specifications or plan details are required to detail cap dimensions, materials, and installation instructions.

If the well is to be plugged with flowable fill or similar material, detail work and materials in the contract documents. Tabulate the approximate volume of material to be included in the payment for plugging each well.

Related Items
Required Recommended
Design Forms and Documentation COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation
No additional form required; use plans summary or comp book
Record final quantity on the computation book form.

References
PPM Chapter
Trans-port
### PLUGGING WATER WELL - NON-ARTESIAN 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>
</tr>
</thead>
<tbody>
<tr>
<td>0110</td>
<td>PLUGGING WATER WELLS, NON-ARTESIAN</td>
<td>EA</td>
<td>1/1/2010</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Details**

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

**Related Items**

Required

Recommended

**Design Forms and Documentation**

SBMailBox: Summary of Mail Boxes

Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book

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

**References**

PPM Chapter

Trns-port

Other

Standards  Index No. 532

Specifications  Section 110

Prep & Doc Manual Chapter(s) 7, 13

---

### MAILBOX

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

**Notes**

A = Description

1 (Furnish & Install Single)

---

### UNDERWATER DEBRIS REMOVAL

Details and Structure: Items 000 to 1999
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.

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 Forms and Documentation</td>
<td>See Details Above</td>
</tr>
<tr>
<td>Construction Forms and Documentation</td>
<td>Locate in the plans. Summarize quantities by location in the computation book.</td>
</tr>
</tbody>
</table>

### References

| PPM Chapter |
| Trns-port |
| Other Standards Specifications |

**T: Plan Details and/or Technical Specifications required**

### Prep & Doc Manual Chapter(s)

7, 13

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

0200 Roadway

### Struct. 110-8- A UNDERWATER DEBRIS REMOVAL Mixed

A = Method of Measurement

- blank (Day) DA
- 1 (Weight) TN
- 2 (Length) 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>
</tr>
</thead>
<tbody>
<tr>
<td>0110 8</td>
<td>UNDERWATER DEBRIS REMOVAL</td>
<td>DA</td>
<td>T</td>
<td>1/1/2010</td>
<td></td>
</tr>
<tr>
<td>0110 8 1</td>
<td>UNDERWATER DEBRIS REMOVAL</td>
<td>TN</td>
<td>T</td>
<td>1/1/2010</td>
<td></td>
</tr>
<tr>
<td>0110 8 2</td>
<td>UNDERWATER DEBRIS REMOVAL</td>
<td>LF</td>
<td>T</td>
<td>7/1/2010</td>
<td></td>
</tr>
</tbody>
</table>

### 110-12- A HYDRODEMOLITION

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

**Required**

**Recommended**

**Design Forms and Documentation**

COMP 700-050-01: Area Computation and Continuation

Locate in the plans. Summarize quantities by location in the computation book.

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book

Record final quantity on the computation book form.

**Related Items**

**Details**

**Notes**

**References**

PPM Chapter

Trns port

Other Standards

Specifications

T: Plan Details and/or Technical Specifications required

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

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

**Struct.**  110- 12-  A HYDRODEMOLITION SY

A = Description/Unit of Measure

1 (Removal Of Deck Surface) SY

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.
COMP 700-050-09: Linear Measure Comp with Components and Cont., or COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation

Locate in the plans. Summarize quantities by location in the computation book.

No additional form required; use plans summary or comp book

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

PPM Chapter

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

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

T: Plan Details and/or Technical Specifications required

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>
</tr>
</thead>
<tbody>
<tr>
<td>0110 71 1</td>
<td>BRIDGE FENDER SYSTEM, REMOVAL &amp; DISPOSAL</td>
<td>LF</td>
<td>T</td>
<td>1/1/2010</td>
<td></td>
</tr>
</tbody>
</table>

110-73- REMOVE EXISTING BULKHEAD

Unit LF; M1 Accuracy Linear Foot; 1/10 Meter PlanQuantity? no

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.

COMP 700-050-09: Linear Measure Comp with Components and Cont., or COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation

Locate in the plans. Summarize quantities by location in the computation book.

No additional form required; use plans summary or comp book

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

PPM Chapter

TRNS*PORT
Other Standards Specifications

D: Plan Details and/or Technical Specifications required
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.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>011073</td>
<td>REMOVE EXISTING BULKHEAD</td>
<td>LF</td>
<td>D</td>
<td>1/1/2010</td>
<td></td>
</tr>
</tbody>
</table>

110-82- REMOVE & DISPOSE STRUCTURAL TIMBER

Unit  MB; M3  Accuracy  1/10 Thou Board Measure; 1/10 Cubic Meter  PlanQuantity?  no

Notes

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.

Related Items

Required  Recommended

Design Forms and Documentation

COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation

Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation

700-050-56: Daily Log Sheet Miscellaneous Tabulation Form Site Source Record

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

References

PPM Chapter
Trns*port
Other Standards Specifications

T: Plan Details and/or Technical Specifications required
Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Struct.  110-82- REMOVE & DISPOSE STRUCTURAL TIMBER MB
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>
</tr>
</thead>
<tbody>
<tr>
<td>0110 82</td>
<td>REMOVE &amp; DISPOSE STRUCTURAL TIMBER</td>
<td>MB</td>
<td>T</td>
<td>1/1/2010</td>
<td></td>
</tr>
</tbody>
</table>

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

**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**

#### Design Forms and Documentation

- COMP 700-050-05: Lump Sum Quantities
- Use a quantity of 1, but calculations and computation book documentation must be to the second unit of measure. Locate or define the scope of work involved on the plans.

#### Construction Forms and Documentation

- No additional form required; use plans summary or comp book
- Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

#### References

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

**T: Plan Details and/or Technical Specifications required**

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

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

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

**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>
</tr>
</thead>
<tbody>
<tr>
<td>0110 84</td>
<td>TRANSPORT EXISTING MATERIAL FOR REEF ESTABLISHMENT</td>
<td>LS</td>
<td>T</td>
<td>1/1/2010</td>
<td></td>
</tr>
</tbody>
</table>

### 110-85-
**CLEANING INTERIOR OF SEGMENTAL BOX GIRDER SPAN**

**Notes**

#### Details

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

---

**Details and Structure:** Items 000 to 1999
## Required and Recommended Standards

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation</td>
<td>Locate in the plans. Summarize quantities by location in the computation book.</td>
</tr>
</tbody>
</table>

## Construction Forms and Documentation

<table>
<thead>
<tr>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>No additional form required; use plans summary or comp book</td>
</tr>
<tr>
<td>Record final quantity on the computation book form.</td>
</tr>
</tbody>
</table>

## References

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

**T: Plan Details and/or Technical Specifications required**

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

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

| 0200 Roadway |

### Struct. 110-85-

| CLEANING INTERIOR OF SEGMENTAL BOX GIRDER SPAN |

## 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>
</tr>
</thead>
<tbody>
<tr>
<td>0110 85</td>
<td>CLEANING INTERIOR OF SEGMENTAL BOX GIRDER SPAN</td>
<td>EA</td>
<td>T</td>
<td>1/1/2010</td>
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</tr>
</tbody>
</table>

### 110-86-

| DELIVERY OF SALVAGEABLE MATERIAL TO FDOT |

<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>

**Notes**

Designer must coordinate with Maintenance Office prior to using this item. Plan details should include contact information and delivery location of salvageable material. (This may be accomplished with a pay item 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.

Trnsport Funding: This pay item should remain "participating", unless items of work are specifically identified by Federal Highway to be "non-participating". If used for construction operations, the item will remain "participating".

### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>sumqr: Roadway Summary of Quantities Sheet</td>
<td>Locate in plans. Summarize quantities by location on summary sheet in the plans.</td>
</tr>
</tbody>
</table>
86  DELIVERY OF SALVAGEABLE MATERIAL TO FDOT  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>
</tr>
</thead>
<tbody>
<tr>
<td>0110 86</td>
<td>DELIVERY OF SALVAGEABLE MATERIAL TO FDOT</td>
<td>LS</td>
<td>T</td>
<td>1/1/2010</td>
<td></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**

Required: 120- 6 (2120- 6)

Recommended: 120- 6 (2120- 6)

**Design Forms and Documentation**

SBEarthwork: Summary of Earthwork, or COMP 700-050-04: Volume Measure Items and Continuation

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

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book

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

**References**

PPM Chapter  Vol 1, Chapter 3
Trns-port
Other
Standards  Index No. 285, 500, 505
Specifications  Section 120
Prep & Doc Manual Chapter(s)  6, 13

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

0200  Roadway
### Struct. 120-1- REGULAR EXCAVATION CY

**Notes**  
Item used for Price Trends Report

---

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>
<td>0120</td>
<td>REGULAR EXCAVATION</td>
<td>CY</td>
<td>1/1/2010</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

#### 120-2- A BORROW EXCAVATION

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

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

**Details**  
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:

\[
\text{Fill} \times \text{Fill Adjustment Factor} \times \text{Truck Adjustment Factor} = \text{Borrow Excavation (Truck Measure)}.
\]

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:

\[
253 \times 1.2 \times 1.25 = 380 \text{ CY of Borrow, Truck Measure}
\]

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**  
- **Required**: 120-71 (2120-71)

**Design Forms and Documentation**  
SBEarthwork: Summary of Earthwork, or COMP 700-050-04: Volume Measure Items and Continuation

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

**Construction Forms and Documentation**  
No additional form required; use plans summary or comp book

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

**References**
- **PPM Chapter**: Vol 1, Chapter 3
- **Trns-port**
- **Other Standards**: Index No. 500, 505
- **Specifications**: Section 120
- **Prep & Doc Manual Chapter(s)**: 6, 8, 13

---

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

---

Details and Structure: Items 000 to 1999

---

Page 56 of 638
Struct. 120- 2- A  BORROW EXCAVATION  CY

A = Measure Type
2 (Truck Measure)

Notes  Item used for Price Trends Report

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>
</tr>
</thead>
<tbody>
<tr>
<td>0120 2 2</td>
<td>BORROW EXCAVATION, TRUCK MEASURE</td>
<td>CY</td>
<td></td>
<td>1/1/2010</td>
<td></td>
</tr>
</tbody>
</table>

120- 3-  LATERAL DITCH EXCAVATION

Unit  CY; M3  Accuracy  Cubic Yard; Cubic Meter  PlanQuantity?  yes

Notes  Details

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.

Related Items  Required  Recommended

Design Forms and Documentation  SBEarthwork: Summary of Earthwork, or COMP 700-050-04: Volume Measure Items and Continuation

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

Construction Forms and Documentation  No additional form required; use plans summary or comp book

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

References  PPM Chapter  Vol 1, Chapter 3

Trns-port  Other  Standards  Index No. 281, 500  Specifications  Section 120

Prep & Doc Manual Chapter(s)  9, 13

TRNS*PORT Category (DRAFT FIELD):  0200  Roadway

Struct. 120- 3-  LATERAL DITCH EXCAVATION  CY

Notes  Item used for Price Trends Report

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>
</tr>
</thead>
<tbody>
<tr>
<td>0120 3</td>
<td>LATERAL DITCH EXCAVATION</td>
<td>CY</td>
<td></td>
<td>1/1/2010</td>
<td></td>
</tr>
</tbody>
</table>

120- 4-  SUBSOIL EXCAVATION

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

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.

<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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</thead>
<tbody>
<tr>
<td>0120 4</td>
<td>SUBSOIL EXCAVATION</td>
<td>CY</td>
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<td>1/1/2010</td>
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</tr>
</tbody>
</table>

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

**Notes**

Item used for Price Trends Report

**Details**

Consists of excavation and disposal of all material from the limits of the channel, within the lines and grades indicated in the plans and permit.

**Related 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>
</tr>
</thead>
<tbody>
<tr>
<td>120- 5-</td>
<td>CHANNEL EXCAVATION</td>
<td>CY</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes

Consists of excavation and disposal of all material from the limits of the channel, within the lines and grades indicated in the plans and permit.

**Related 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>
</tr>
</thead>
<tbody>
<tr>
<td>120- 5-</td>
<td>CHANNEL EXCAVATION</td>
<td>CY</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>
<thead>
<tr>
<th>Item</th>
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<th>Unit</th>
<th>TSP/Detail</th>
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</thead>
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<td>0120</td>
<td>CHANNEL EXCAVATION</td>
<td>CY</td>
<td></td>
<td>1/1/2010</td>
<td></td>
</tr>
</tbody>
</table>

**120-6- EMBANKMENT**

**Notes**

- Item used for Price Trends Report

**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 embankment on the project.

**Related Items**

- Required: 120-1 (2120-1)
- Recommended: 120-1 (2120-1)

**Design Forms and Documentation**

- SBEarthwork: Summary of Earthwork, or COMP 700-050-04: Volume Measure Items and Continuation
- Locate in plans. Summarize quantities by location on summary sheet in the plans, or detail calculations in the computation book.

**Construction Forms and Documentation**

- No additional form required; use plans summary or comp book
- Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**

- PPM Chapter Vol 1, Chapter 3
- Transport
- Other
- Standards Index No. 500, 505
- Specifications Section 120
- Prep & Doc Manual Chapter(s) 9, 13

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway
**120- 71-**  
**REGULAR EXCAVATION (3R PROJECTS ONLY)**

<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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</thead>
<tbody>
<tr>
<td>0120 6</td>
<td>EMBANKMENT</td>
<td>CY</td>
<td>1/1/2010</td>
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<td></td>
</tr>
</tbody>
</table>

**Notes**

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- 2- 2 (2120- 2- 2) should be considered.

**Related Items**

**Required**

**Recommended**

**Design Forms and Documentation**

COMP 700-050-05: Lump Sum Quantities

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

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book

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

**References**

PPM Chapter Vol 1, Chapter 3

Trns-port

Other Standards

Specifications Section 120

Prep & Doc Manual Chapter(s) 7, 13

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

**Struct.**  
120- 71-  
**REGULAR EXCAVATION (3R PROJECTS ONLY)**  
LS/LS

**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.

---

**120- 72-**  
**GRAVEL FILL**

<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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</thead>
<tbody>
<tr>
<td>0120 71</td>
<td>REGULAR EXCAVATION (3-R PROJECTS ONLY)</td>
<td>LS</td>
<td>1/1/2010</td>
<td></td>
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</tbody>
</table>

**Notes**

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.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design Forms and Documentation</td>
<td>SBEEarthwork: Summary of Earthwork, or COMP 700-050-04: Volume Measure Items and Continuation</td>
<td>Locate in plans. Summarize quantities by location on summary sheet in the plans, or detail calculations in the computation book.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Reference</th>
<th>PPM Chapter</th>
<th>Vol 1, Chapter 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trns-port</td>
<td>Other Standards Specifications</td>
<td></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.

<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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</thead>
<tbody>
<tr>
<td>0120 72</td>
<td>GRAVEL FILL</td>
<td>CY</td>
<td>D</td>
<td>1/1/2010</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>120- 73-</td>
<td>LIGHTWEIGHT AGGREGATE FILL</td>
<td>CY; M3</td>
<td>1/10 Cubic Yard; 1/10 Cubic Meter</td>
<td>no</td>
<td>PlanQuantity?</td>
</tr>
</tbody>
</table>

**Notes**

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.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
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</thead>
</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>
</tr>
</thead>
<tbody>
<tr>
<td>0120 73</td>
<td>LIGHTWEIGHT AGGREGATE FILL</td>
<td>CY</td>
<td>T</td>
<td>1/1/2010</td>
<td></td>
</tr>
</tbody>
</table>

**120- 74- SURCHARGE EMBANKMENT**

**Notes**

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 Section 120, 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 materials, placement, measurement, 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**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
</table>
Standards and Specifications

Vol 1, Chapter 3

Struct. 120-74- SURCHARGE EMBANKMENT CY

Notes

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

Design Forms and Documentation

SBEarthwork: Summary of Earthwork, or COMP 700-050-04: Volume Measure Items and Continuation

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

Construction Forms and Documentation

No additional form required; use plans summary or comp book

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

References

PPM Chapter Vol 1, Chapter 3
Trns-port
Other
Standards
Specifications

T: Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Surcharge Embankment

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>
</tr>
</thead>
<tbody>
<tr>
<td>0120 74</td>
<td>SURCHARGE EMBANKMENT</td>
<td>CY</td>
<td>T</td>
<td>1/1/2010</td>
<td></td>
</tr>
</tbody>
</table>

121-70-

FLOWABLE FILL

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

Notes

Applications for flowable fill include: beddings, encasements, closure for tanks, pipes, and general backfill for trenches.

Related Items

Required

Recommended

Design Forms and Documentation

SBEarthwork: Summary of Earthwork, or COMP 700-050-04: Volume Measure Items and Continuation

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

Construction Forms and Documentation

No additional form required; use plans summary or comp book

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

References

PPM Chapter
Trns-port
Other
Standards Index No. 307
Specifications Section 121
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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</thead>
<tbody>
<tr>
<td>0121</td>
<td>FLOWABLE FILL CY</td>
<td>CY</td>
<td></td>
<td>1/1/2010</td>
<td></td>
</tr>
</tbody>
</table>

### 125-1- EXCAVATION FOR STRUCTURES

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

**Notes**  
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**

**Design Forms and Documentation**  
SBEarthwork: Summary of Earthwork, or COMP 700-050-04: Volume Measure Items and Continuation  
Locate in plans. Summarize quantities by location on summary sheet in the plans, or detail calculations in the computation book.

**Construction Forms and Documentation**  
No additional form required; use plans summary or comp book  
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**  
PPM Chapter  
Trns-port  
Other Standards  
Specifications Section 125  
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>
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<tbody>
<tr>
<td>0125  1</td>
<td>EXCAVATION FOR STRUCTURES CY</td>
<td>CY</td>
<td></td>
<td>1/1/2010</td>
<td></td>
</tr>
</tbody>
</table>

### 125-3- SELECT BEDDING MATERIAL

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

Details and Structure: Items 000 to 1999
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**

**Design Forms and Documentation**

SBEarthwork: Summary of Earthwork, or COMP 700-050-04: Volume Measure Items and Continuation

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

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book

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

Trns-port

Other Standards

Specifications Section 125

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

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

**Struct. 125-3 SELECT BEDDING MATERIAL CY**

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>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>0125</td>
<td>SELECT BEDDING MATERIAL</td>
<td>CY</td>
<td>1/1/2010</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Notes**

- **129-1-AAA NATURAL DISASTER/PRE-EVENT CONTRACTS**

- **Unit** Mixed

- **Accuracy** Refer to item structure and details

- **PlanQuantity?** no

- **Notes** Coordinate with the State Maintenance Office prior to using these items.

Valid for Emergency Pre-event or Emergency Response contracts. May need to be coordinated with FEMA for post-event response contracts.

DO NOT use these items on standard Design-Construction contracts.

Crew Pre-positioning: Specifications should indicate that payment will be made for each crew, per day. This item is normally used with cut and toss, for pre-event contracts.

Crew: 2 People and vehicle, per hour. Specifications should indicate any specialized equipment that may need to be included with the vehicle. Overtime, after 8 hours, needs to be defined in the specifications- per 24 hour period, continuous shift, etc.

Cut and Toss: Hourly rate normally includes vehicle, 2 chain saw operators, and a
supervisor. Specifications should detail specific requirements for contract. This item is normally used with crew pre-positioning, for pre-event contracts.

**COLLECTION, HAULING, AND REDUCTION ITEMS:**

Loading and Hauling debris to TDS site: Specifications must define measurement of the load, i.e. per truck volume, for a full to "slightly mounded" load. Quantity to be reduced for a partial load, based on truck volume. Price to include Maintenance of Traffic (MOT), CY

Reduction by grinding at the TDS, CY: Specifications to indicate whether this is based on volume of ground material, or truck load of loose unground material. Reduction by incineration at the TDS, CY: Specifications to indicate how material is to be measured, before or after incineration.

Stump removal, per each. Specifications should indicate that no separate payment is made for stumps less than 24".

**MISCELLANEOUS ITEMS:**

Sweeping Curb and Gutter, HR: Payment will be made per person for sweeping with power blower. Equipment provided by the contractor.

Vacuum Inlets, HR: Payment will be made for clearing debris from inlets.

Removal of Hanging Limbs, HR: Payment will be made for each person removing hanging limbs.

Loading and hauling construction and demolition debris, CY: Specifications must define measurement of the load, i.e. per truck volume, for a full to "slightly mounded" load. Quantity to be reduced for a partial load, based on truck volume. Price to include Maintenance of Traffic (MOT), CY

White Goods and Hazardous Household Waste Disposal, EA: Specifications should indicate that payment is based on each "white good". Define Hazardous waste disposal?

Freon Recovery, EA: Specifications need to define the work (remove, recover, etc.) to be completed. Payment is for each white good properly serviced to recover the Freon.

**LOADING OF REDUCED MATERIAL, FINAL DISPOSITION**

Loading and Hauling Reductions to a final disposition site, including MOT, CY: Specifications to indicate whether this is based on volume of ground material, or truck load of loose unground material. DO NOT USE BOTH CY AND TN Item on the same contract.

Loading and Hauling Reductions to a final disposition site, including MOT, TN: Specifications to indicate when/where weight measurements are to be made. DO NOT USE BOTH CY AND TN Item on the same contract.

Disposal/Tipping Fees: no-bid item, Contractor will be paid actual cost for this item.

### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Design Forms and Documentation</strong></td>
<td>See Details Above</td>
</tr>
<tr>
<td></td>
<td>Locate in the plans. Summarize quantities by location in the computation book.</td>
</tr>
<tr>
<td><strong>Construction Forms and Documentation</strong></td>
<td>No additional form required; use plans summary or comp book</td>
</tr>
</tbody>
</table>
Standards
Specifications

**AAA** = Operation and Unit of Measure
Pre-event, First response
1 (Crew Pre-positioning) DA
2 (Cut and Toss) HR
3 (Crew, 2 people and service Truck, Regular Time) HR
4 (Crew, 2 people and service Truck, After 8 Hours) HR
5 (Crew, 2 people and Bucket Truck, Regular Time) HR
6 (Crew, 2 people and Bucket Truck, After 8 Hours) HR

Collection, Hauling, and Reduction
11 (Loading and Hauling debris to TDS site) CY
12 (Reduction by grinding at the TDS) CY
13 (Reduction by incineration at the TDS) CY

Stump Removal
21 (24-48” diameter stump removal) EA
22 (>48” diameter stump removal) EA

Miscellaneous Work
31 (Sweeping Curb and Gutter) HR
32 (Vacuum Inlets) HR
33 (Removal of Hanging Limbs) HR
34 (Loading and hauling construction and demolition debris) CY
35 (White Goods and Hazardous Household Waste Disposal) EA
36 (Freon Recovery) EA

Loading of Reduced Material, Final Disposition
50 (Disposal/Tipping Fees- no-bid item, Contractor will be paid actual cost for this item
51 (Loading and Hauling Reductions to a final disposition site, including MOT) CY; see detail to distinguish between CY and TN items.
52 (Loading and Hauling Reductions to a final disposition site, including MOT) TN; see detail to distinguish between CY and TN items.

**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.

<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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<tbody>
<tr>
<td>0129 1 1</td>
<td>NATURAL DISASTER /PRE EVENT CONTRACTS, CREW PRE-POSITIONING</td>
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<td>0129 1 32</td>
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<td>1/1/2010</td>
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<tr>
<td>0129 1 33</td>
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<td>NATURAL DISASTER /PRE EVENT CONTRACTS, DISPOSAL AND TIPPING FEES-DO NOT BID</td>
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<td>1/1/2010</td>
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<td>0129 1 51</td>
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<td>1/1/2010</td>
<td></td>
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<tr>
<td>0129 1 52</td>
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</table>
### 141-70- SETTLEMENT PLATE ASSEMBLY

<table>
<thead>
<tr>
<th>Notes</th>
<th>Coordinate with the State Maintenance Office prior to using these items.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Details</td>
<td>Used with surcharge embankment item.</td>
</tr>
</tbody>
</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.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
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<tbody>
<tr>
<td>Design Forms and Documentation</td>
<td>COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation</td>
<td>Locate in the plans. Summarize quantities by location in the computation book.</td>
</tr>
<tr>
<td>Construction Forms and Documentation</td>
<td>No additional form required; use plans summary or comp book</td>
<td>Record final quantity on the computation book form.</td>
</tr>
</tbody>
</table>

**References**

- PPM Chapter
- Trns-port
- Other Standards: Index No. 540
- Specifications

**T**: Plan Details and/or Technical Specifications required

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

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

<table>
<thead>
<tr>
<th>Struct.</th>
<th>141-70- SETTLEMENT PLATE ASSEMBLY</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>
<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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<tr>
<td>0141 70</td>
<td>SETTLEMENT PLATE ASSEMBLY</td>
<td>AS</td>
<td>T</td>
<td>1/1/2010</td>
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</tr>
</tbody>
</table>

| 142-70- SAND FILL |

<table>
<thead>
<tr>
<th>Notes</th>
<th>Complete specifications are required, including material and placement/installation requirements.</th>
</tr>
</thead>
</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.

<table>
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<tr>
<th>Related Items</th>
<th>Required</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.

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<tr>
<th>Item</th>
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<td>0142 70</td>
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<td>CY</td>
<td>D</td>
<td>1/1/2010</td>
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</tbody>
</table>

144-1- A  DIGITAL INCLINOMETER CASING

**Notes**

Coordinate the use of this item with Larry Jones, State Geotechnical 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**

<table>
<thead>
<tr>
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<tr>
<td>COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation</td>
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Locate in the plans. Summarize quantities by location in the computation book.

<table>
<thead>
<tr>
<th>Construction Forms and Documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>No additional form required; use plans summary or comp book</td>
</tr>
</tbody>
</table>

Record final quantity on the computation book form.

**References**

PPM Chapter

Trns-port

Other Standards

Specifications

D: Plan Details and/or Technical Specifications required

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

T: Plan Details and/or Technical Specifications required

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

Struct.  144-  1-  A  DIGITAL INCLINOMETER CASING  LF

A = Description
1 (Vertical)
2 (Horizontal) to be opened with approval of State Geotech Engineer

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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<tr>
<td>0144</td>
<td>DIGITAL INCLINOMETER CASING, VERTICAL</td>
<td>LF</td>
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<td>1/1/2010</td>
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</tr>
</tbody>
</table>

144- 71-  A  PORE-PRESSURE TRANSDUCER (PIEZOMETER)

Unit  EA  Accuracy  Each  PlanQuantity?  no

Notes  Coordinate the use of this item with Larry Jones, State Geotechnical 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  Recommended

Design Forms and Documentation  COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation  No additional form required; use plans summary or comp book
Record final quantity on the computation book form.

References  PPM Chapter
Trns-port
Other Standards
Specifications

T: Plan Details and/or Technical Specifications required

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

Struct.  144- 71-  A  PORE-PRESSURE TRANSDUCER (PIEZOMETER)  EA

A = Transducer Type
blank (type defined in plans/specs) valid through 6/30/2009
1 (Pneumatic) also use item 144-72 for tubing; effective 7/1/2009
2 (Vibrating Wire) do not use item 144-72; effective 7/1/2009
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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<td>0144 71 2</td>
<td>PORE-PRESSURE TRANSDUCER-PIEZOMETER, VIBRATING WIRE</td>
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</table>

144-72- TUBING FOR PIEZOMETER

Unit LF; M1 Accuracy Linear Foot; 1/10 Meter PlanQuantity? no

Notes
Coordinate the use of this item with Larry Jones, State Geotechnical 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 Recommended

Design Forms and Documentation
COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Completion and Continuation Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation
No additional form required; use plans summary or comp book
Record final quantity on the computation book form.

References
PPM Chapter
Trns-port
Other Standards
Specifications

T: Plan Details and/or Technical Specifications required
Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

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.

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144-74- A PORE-PRESSURE TRANSDUCER- CONTROL/READOUT UNIT

Unit EA Accuracy Each PlanQuantity? no

Notes
Coordinate the use of this item with Larry Jones, State Geotechnical 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

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### Construction Forms and Documentation

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<td>Trns-port</td>
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### Prep & Doc Manual Chapter(s)

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### Item Description

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<td>0144 74 1</td>
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<tr>
<td>0144 74 2</td>
<td>PORE-PRESSURE TRANSDUCER, CONTROL/READOUT UNIT VIBRATING WIRE</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.

**145- 1-**

GEOSYNTHETIC REINFORCED SOIL SLOPE

<table>
<thead>
<tr>
<th>Description</th>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
<th>Details</th>
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<tbody>
<tr>
<td>GEOSYNTHETIC REINFORCED SOIL SLOPE</td>
<td>SF; M2</td>
<td>Square Foot; 1/10 Square Meter</td>
<td>yes</td>
<td><em><strong>CAUTION- CALCULATE QUANTITY PER SPECIFICATION</strong></em>*</td>
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</table>

Refer to Plans Prep Manual, Volume 1, Chapter 31, to establish design guidelines, parameters, and limitations for these systems. The designer must provide the requirements in the plans for choosing the material from those listed in Index 501. See also the Instructions for Design Standards and Index No. 501. For design assistance, contact the State Geotechnical Engineer.
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 vertical height of the slope, from top of slope to the ground line at the toe of slope, regardless of the number of layers; multiply by the width (beginning and end limits). DO NOT USE THE SLOPE FACE AREA or material area. Refer to the specifications for method of measurement.

**Related Items**

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

**Design Forms and Documentation**

- COMP 700-050-01: Area Computation and Continuation

- Locate in the plans. Summarize quantities by location in the computation book.

**Construction Forms and Documentation**

- No additional form required; use plans summary or comp book

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

**References**

- **PPM Chapter**
- **Trns-port**
- **Other Standards** Index No. 501
- **Specifications** Section 145

**T: Plan Details and/or Technical Specifications required**

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

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

### Struct. 145-1-

**GEOSYNTHETIC REINFORCED SOIL SLOPE** 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>
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<th>TSP/Detail</th>
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<tbody>
<tr>
<td>0145</td>
<td>GEOSYNTHETIC REINFORCED SOIL SLOPE</td>
<td>SF</td>
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<td>1/1/2010</td>
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### 145-2-

**GEOSYNTHETIC REINFORCED FOUNDATION OVER SOFT SOIL**

<table>
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<th>Unit</th>
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<th>PlanQuantity?</th>
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</thead>
<tbody>
<tr>
<td>SY; M2</td>
<td>Square Yard; Square Meter</td>
<td>yes</td>
</tr>
</tbody>
</table>

**Notes**

- Refer to Plans Prep Manual, Volume 1, Chapter 31, to establish design guidelines, parameters, and limitations for these systems. The designer must provide the requirements in the plans for choosing the material from those listed in Index 501. See also the Instructions for Design Standards and Index No. 501. For design assistance, contact the State Geotechnical Engineer.

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>
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</table>
**Design Forms and Documentation**

COMP 700-050-01: Area Computation and Continuation

Locate in the plans. Summarize quantities by location in the computation book.

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book

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

**References**

PPM Chapter

Trns-port

Other Standards Index No. 501

Specifications Section 145

T: Plan Details and/or Technical Specifications required

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

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

**Struct. 145- 2-**

GEOSYNTHETIC REINFORCED FOUNDATION OVER SOFT SOIL

**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>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
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</thead>
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<tr>
<td>0145 2</td>
<td>GEOSYNTHETIC REINFORCED FOUNDATION OVER SOFT SOIL</td>
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<td>1/1/2010</td>
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</table>

**145- 71-**

REINFORCEMENT GRID FOR SOIL STABILIZATION

<table>
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<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>SY; M2</td>
<td>Square Yard; Square Meter</td>
<td>no</td>
<td>Coordinate the use of this item with Larry Jones, State Geotechnical Engineer.</td>
</tr>
</tbody>
</table>

**Details**

Geosynthetic Reinforced Roadway Base for Construction Expedient, as shown on Index 501. Full material technical specifications are required. See the Instructions for Design Standards and Index No. 501.

This item is intended for Soil Stabilization applications. For drainage/erosion control applications, refer to Section 530 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.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
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<tr>
<td>Design Forms and Documentation</td>
<td>COMP 700-050-01: Area Computation and Continuation</td>
</tr>
</tbody>
</table>

Locate in the plans. Summarize quantities by location in the computation book.
### Structural Item 145-71 - REINFORCEMENT GRID FOR SOIL STABILIZATION

**Unit**: SY; M2  
**Accuracy**: Square Yard; Square Meter  
**Plan Quantity?**: no

**Notes**:  
Valid Through Dec 31, 2009; replaced by 145-71. Coordinate the use of this item with the State Geotechnical Engineer.

**Details**:  
Geosynthetic Reinforced Roadway Base for Construction Expedient, as shown on Index 501.

Intended for Soil Stabilization applications. For drainage/erosion control applications, refer to Section 530 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.

---

**Design Forms and Documentation**

**Required**: COMP 700-050-01: Area Computation and Continuation  
Locate in the plans. Summarize quantities by location in the computation book.

**Recommended**: COMP 600-600-600: Area Computation and Continuation  
Locate in the plans. Summarize quantities by location in the computation book.

---

**References**

- PPM Chapter
- Trns-port
- Other Standards: Index No. 501

**T: Plan Details and/or Technical Specifications required**

---

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book  
Record final quantity on the computation book form.

---

**Additional Notes**:  
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
Struct. 145-71- A REINFORCEMENT GRID FOR SOIL STABILIZATION SY

A = Description
1 (Biaxial Type 1)
2 (Biaxial Type 2)
3 (Biaxial Type 3)

For other types, including Plastic Cellular Confinement Systems, contact the State Geotechnical Engineer; additional items to be added, pending approval.

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>
</tr>
</thead>
<tbody>
<tr>
<td>0145 71</td>
<td>REINFORCEMENT GRID FOR SOIL STABILIZATION</td>
<td>SY</td>
<td>T</td>
<td>1/1/2010</td>
<td></td>
</tr>
</tbody>
</table>

145-72- CELLULAR CONFINEMENT FOR SOIL STABILIZATION

Unit SY; M2
Accuracy Square Yard; Square Meter
Plan Quantity? no

Notes

Coordinate the use of this item with Larry Jones, State Geotechnical Engineer.

Details

Related Items

Required

Recommended

Design Forms and Documentation

COMP 700-050-01: Area Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation

No additional form required; use plans summary or comp book
Record final quantity on the computation book form.

References

PPM Chapter
Trns-port
Other Standards
Specifications

T: Plan Details and/or Technical Specifications required

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

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Struct. 145-72- CELLULAR CONFINEMENT FOR SOIL STABILIZATION SY

Notes

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

#### Design Forms and Documentation

COMP 700-050-01: Area Computation and Continuation  
Locate in the plans. Summarize quantities by location in the computation book.

#### Construction Forms and Documentation

No additional form required; use plans summary or comp book  
Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

#### References

PPM Chapter  
Trns·port

**Other**

**Standards**: Index No. 506  
**Specifications**: Section 160  
**Prep & Doc Manual Chapter(s)**: 6, 7, 13

---

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

**Struct.**: 160-4 TYPE B STABILIZATION

#### Notes

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

---

### 161- PREDEIGNED STABILIZED SUBGRADE

**Unit**: SY; M2  
**Accuracy**: Square Yard; Square Meter  
**PlanQuantity?**: yes

#### Notes

**Specification change pending.**

#### Details

Per the specifications, Section 161 is valid only for shoulder and non-traffic areas. Refer to Section 160 for roadway stabilization.

#### Related Items

**Required**  
**Recommended**

#### Design Forms and Documentation

COMP 700-050-01: Area Computation and Continuation  
Locate in the plans. Summarize quantities by location in the computation book.
162- 1- AB  PREPARED SOIL LAYER

<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**
- 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 and Index 105. Note- per index 105, treatment I conditions are included under performance turf pay item. For treatment II conditions, payment is made for Finish Soil Layer and Performance Turf Items. Refer to Index 105 for additional information.
- ORGANIC SOIL LAYER: only when required by permit. 6” depth.
- BLANKET MATERIAL: only when required by permit. Show depth in plans.

**Related Items**
- **Required**: COMP 700-050-01: Area Computation and Continuation
- **Recommended**: Locate in the plans. Summarize quantities by location in the computation book.

**Design Forms and Documentation**
- No additional form required; use plans summary or comp book
- Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**
- PPM Chapter
- Trns-port
- Other Standards
- Index No. 105
Specifications Section 162

P: Selected items to be used by Permit only

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Struct. 162- 1- AB PREPARED SOIL LAYER SY

A= Material
1 (Finish Soil Layer)
2 (Organic Soil Layer) Note: by Permit only. 6” depth, per specification.
3 (Blanket Soil Layer) Note: By Permit Only

B= Depth
1 (6”) Standard depth for finish soil
2 (12”) A=1 or 3
3 (Special Depth) A=2 or 3 only, as required by permit

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>
</tr>
</thead>
<tbody>
<tr>
<td>0162 1 11</td>
<td>PREPARED SOIL LAYER, FINISH SOIL LAYER, 6”</td>
<td>SY</td>
<td></td>
<td>1/1/2010</td>
<td></td>
</tr>
<tr>
<td>0162 1 12</td>
<td>PREPARED SOIL LAYER, FINISH SOIL LAYER, 12”</td>
<td>SY</td>
<td></td>
<td>1/1/2010</td>
<td></td>
</tr>
<tr>
<td>0162 1 21</td>
<td>PREPARED SOIL LAYER, ORGANIC SOIL LAYER, 6”</td>
<td>SY</td>
<td>P</td>
<td>1/1/2010</td>
<td></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>1/1/2010</td>
<td></td>
</tr>
</tbody>
</table>

165- 70- SUBGRADE, LIME TREATED

Unit SY; M2 Accuracy Square Yard; Square Meter PlanQuantity? yes

Notes

Details

Related Items

Required Recommended

Design Forms and Documentation

COMP 700-050-01: Area Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation

No additional form required; use plans summary or comp book
Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter
Trns-port
Other Standards Specifications
T: Plan Details and/or Technical Specifications required
Prep & Doc Manual Chapter(s) 6, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Struct.  165- 70- SUBGRADE, LIME TREATED 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>
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</thead>
<tbody>
<tr>
<td>0165 70</td>
<td>SUBGRADE LIME TREATED</td>
<td>SY</td>
<td>T</td>
<td>1/1/2010</td>
<td></td>
</tr>
</tbody>
</table>

165- 71- HYDRATED LIME

Unit TN; MT Accuracy 1/10 Ton; 1/10 Metric Ton PlanQuantity? no

Notes

Design Forms and Documentation
- COMP 700-050-06: Weight Measure or Liquid Volume Comp & Cont.
- Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation
- 700-050-56: Daily Log Sheet Miscellaneous Tabulation Form Site Source Record

References
- PPM Chapter
- Trns-port
- Other
- Standards
- Specifications

T: Plan Details and/or Technical Specifications required
Prep & Doc Manual Chapter(s) 6, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Struct.  165- 71- HYDRATED LIME 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>
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<th>Obsolete Date</th>
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<tbody>
<tr>
<td>0165 71</td>
<td>HYDRATED LIME</td>
<td>TN</td>
<td>T</td>
<td>1/1/2010</td>
<td></td>
</tr>
</tbody>
</table>

173- 71- DRILLING HOLES FOR PRESSURE GROUTING

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.

### Design Forms and Documentation

**Required**

COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation

Locate in the plans. Summarize quantities by location in the computation book.

### Construction Forms and Documentation

No additional form required; use plans summary or comp book

Record final quantity on the computation book form.

### References

PPM Chapter

Trns-port

Other Standards

Specifications

**T:** Plan Details and/or Technical Specifications required

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

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

### Struct. 173- 71-

**DRILLING HOLES FOR PRESSURE GROUTING 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>
</tr>
</thead>
<tbody>
<tr>
<td>0173 71</td>
<td>DRILLING HOLES FOR PRESSURE GROUTING</td>
<td>EA</td>
<td>T</td>
<td>1/1/2010</td>
<td></td>
</tr>
</tbody>
</table>

### 173- 76-

**GROUT PIPE INSTALLATION**

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>LF; M1</td>
<td>Linear Foot; 1/10 Meter</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**

COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation

Locate in the plans. Summarize quantities by location in the computation book.

### Construction Forms and Documentation

No additional form required; use plans summary or comp book

Record final quantity on the computation book form.
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>
</tr>
</thead>
<tbody>
<tr>
<td>0173 76</td>
<td>GROUT PIPE INSTALLATION</td>
<td>LF</td>
<td>T</td>
<td>1/1/2010</td>
<td></td>
</tr>
</tbody>
</table>

173-77- A SUBSURFACE PRESSURE GROUTING

Unit CY; M3 Accuracy 1/10 Cubic Yard; 1/10 Cubic Meter PlanQuantity? no

Notes Contact the State Geotechnical Engineer prior to using this item.

Details 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 Required | Recommended 173-71-, 173-76-

Design Forms and Documentation sumqrd: Roadway Summary of Quantities Sheet

Locate in plans. Summarize quantities by location on summary sheet in the plans.

Construction Forms and Documentation No additional form required; use plans summary or comp book

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

References PPM Chapter Trns-port Other Standards Specifications T: Plan Details and/or Technical Specifications required Prep & Doc Manual Chapter(s)
**Struct. 173-77- A**

**SUBSURFACE PRESSURE GROUTING**

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>
</tr>
</thead>
<tbody>
<tr>
<td>0173 77 1</td>
<td>SUBSURFACE PRESSURE GROUTING, SAND CEMENT</td>
<td>CY</td>
<td>T</td>
<td>1/1/2010</td>
<td></td>
</tr>
<tr>
<td>0173 77 2</td>
<td>SUBSURFACE PRESSURE GROUTING, SAND CEMENT WITH CALCIUM CHLORIDE</td>
<td>CY</td>
<td>T</td>
<td>1/1/2010</td>
<td></td>
</tr>
<tr>
<td>0173 77 3</td>
<td>SUBSURFACE PRESSURE GROUTING, CEMENT SLURRY</td>
<td>CY</td>
<td>T</td>
<td>1/1/2010</td>
<td></td>
</tr>
</tbody>
</table>

---

**173-78- A**

**SOIL IMPROVEMENT BY VIBRO-COMPACTION**

Unit LF; M1
Accuracy Linear Foot; 1/10 Meter
PlanQuantity? no

**Notes**

Contact the State Geotechnical Engineer prior to using this item.

**Details**

This item to be used for subsurface applications, as approved by the State Geotechnical Engineer.

Tech Specs should be coordinated with the State Geotechnical Engineer and the District Materials 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**

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

**Design Forms and Documentation**

COMP 700-050-09: Linear Measure Comp with Components and Cont., or COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation

Locate in the plans. Summarize quantities by location in the computation book.

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book

**References**

PPM Chapter
Trns-port
Other Standards
Specifications

T: Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)
**Struct. 173-78- A SOIL IMPROVEMENT BY VIBRO-COMPACTION LF**

A= Vibrator Horsepower
1 (Up to 125 hp vibrator)
2 (126 to 205 hp vibrator)
3 (Over 206 hp vibrator)

**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>
</tr>
</thead>
<tbody>
<tr>
<td>0173 78 1</td>
<td>SOIL IMPROVEMENT BY VIBRO-COMPACTION, UP TO 125 HP VIBRATOR</td>
<td>LF</td>
<td>T</td>
<td>7/1/2010</td>
<td></td>
</tr>
<tr>
<td>0173 78 2</td>
<td>SOIL IMPROVEMENT BY VIBRO-COMPACTION, 126-205 HP VIBRATOR</td>
<td>LF</td>
<td>T</td>
<td>7/1/2010</td>
<td></td>
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<tr>
<td>0173 78 3</td>
<td>SOIL IMPROVEMENT BY VIBRO-COMPACTION, OVER 206 HP VIBRATOR</td>
<td>LF</td>
<td>T</td>
<td>7/1/2010</td>
<td></td>
</tr>
</tbody>
</table>

**Struct. 173-79- A SOIL STABILIZATION BY AUGERED CONCRETE COLUMNS LF**

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>LF; M1</td>
<td>Linear Foot; 1/10 Meter</td>
<td>no</td>
</tr>
</tbody>
</table>

**Notes**

This item is to be used for strengthening of organics and soft soils, and the reduction of settlements of superimposed embankments by placing dry concrete mix to desired depth via continuous flight auger or SCV technique. NOT TO BE USED for auger-cast piles.

For assistance with this item, contact the State Geotech Engineer in the State Structures Design Office.
Technical Special Provisions are required to detail the materials, construction method, and/or acceptance criteria.

**Related Items**

**Design Forms and Documentation**

No additional form required; use plans summary or comp book

**Construction Forms and Documentation**

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

**References**

PPM Chapter
Trns-port
Other Standards
Specifications Section 173

T: Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 13
A = Diameter
1 (6" to 8")

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>
</tr>
</thead>
<tbody>
<tr>
<td>0173 79 1</td>
<td>SOIL STABILIZATION BY AUGERED CONCRETE COLUMNS, 6&quot;-8&quot; DIAMETER</td>
<td>LF</td>
<td>T</td>
<td>1/1/2012</td>
<td></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**
Required | Recommended

**Design Forms and Documentation**
COMP 700-050-01: Area Computation and Continuation  
Locate in the plans. Summarize quantities by location in the computation book.

**Construction Forms and Documentation**
No additional form required; use plans summary or comp book  
Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**
PPM Chapter  
Trns·port 
Other Standards  
Specifications Section 175  
Prep & Doc Manual Chapter(s) 6, 13

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

### 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>
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<tr>
<td>0175 1</td>
<td>RESEATING CONCRETE PAVEMENT</td>
<td>SY</td>
<td></td>
<td>1/1/2010</td>
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</table>

### 210- 1- AA REWORKING LIMEROCK BASE

**Unit** SY; M2  
**Accuracy** Square Yard; Square Meter  
**PlanQuantity?** yes

**Notes**
Rework (or rework and widen) the existing rock base, by adding new limerock material as
required by the plans and Section 210 of the specifications. Construct adjacent turnouts, entirely with new limerock.

### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
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<tbody>
<tr>
<td>210-2</td>
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</table>

### Design Forms and Documentation

COMP 700-050-01: Area Computation and Continuation

Locate in the plans. Summarize quantities by location in the computation book.

### Construction Forms and Documentation

No additional form required; use plans summary or comp book

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

### References

PPM Chapter

Trns-port

Other Standards

Specifications Section 210, 285

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

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

### Struct.

<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>
<td>0210 1 1</td>
<td>REWORKING LIMEROCK BASE, 6”</td>
<td>SY</td>
<td>1/1/2010</td>
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<tr>
<td>0210 1 8</td>
<td>REWORKING LIMEROCK BASE, 4”</td>
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<tr>
<td>0210 1 9</td>
<td>REWORKING LIMEROCK BASE, 3”</td>
<td>SY</td>
<td>1/1/2010</td>
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</table>

### Notes

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

### Item Description

0210 1 1 REWORKING LIMEROCK BASE, 6”

0210 1 8 REWORKING LIMEROCK BASE, 4”

0210 1 9 REWORKING LIMEROCK BASE, 3”

### Unit

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

### 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

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>210-1- A</td>
<td></td>
</tr>
</tbody>
</table>

### Notes

Details

To be used in accordance with Section 210 of the specifications.
Basis of Estimates

Standards Specifications
Section 210, 285

Notes
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.

Design Forms and Documentation
SBEarthwork: Summary of Earthwork, or COMP 700-050-04: Volume Measure Items and Continuation
Locate in plans. Summarize quantities by location on summary sheet in the plans, or detail calculations in the computation book.

Construction Forms and Documentation
700-050-54: Daily Report or Truck-Measured Material Site Source Record (and Sketch)
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
Trns-port
Other Standards
Specifications Section 210, 285
Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Struct. 210-2- LIMEROCK, NEW MATERIAL FOR REWORKING BASE 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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<tr>
<td>0210 2</td>
<td>LIMEROCK-NEW MATERIAL FOR REWORKING BASE</td>
<td>CY</td>
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285-7AA- OPTIONAL BASE

<table>
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<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>yes</td>
</tr>
</tbody>
</table>

Notes
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.

Construction Forms & Text: A Contractor’s Certification of Quantities will be required when Asphalt Base is used. The pay quantity will be adjusted per the specifications.

Related Items
Required Recommended

Details and Structure: Items 000 to 1999
Standards

Index No. 514
Specifications
Section 285

Notes

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

References

PPM Chapter
Trns·port
Other
Standards
Index No. 514
Specifications
Section 285
Prep & Doc Manual Chapter(s)  6, 9, 13

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

Struct.  285-7AA- OPTIONAL BASE SY

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.

<table>
<thead>
<tr>
<th>Item</th>
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**286- 1- TURNOUT CONSTRUCTION**

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<tbody>
<tr>
<td>SY; M2</td>
<td>Square Yard; Square Meter</td>
<td>yes</td>
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</tbody>
</table>

Notes

To be used in accordance with Section 286 of the specifications and Index 516. 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.

**Related Items**

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

**Design Forms and Documentation**

- SBTurnouts: Summary of Turnouts
- Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**

- No additional form required; use plans summary or comp book
- Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**

- PPM Chapter
- Trnsport
- Other Standards: Index No. 516
- Specifications: Section 286
- Prep & Doc Manual Chapter(s): 6, 9, 13

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

**Struct. 286-1- TURNOUT CONSTRUCTION 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>1/1/2010</td>
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**286-2- TURNOUT CONSTRUCTION- ASPHALT**

**Notes**

**Details**

To be used in accordance with Section 286 of the specifications and Index 516. Consists of constructing new turnouts or extending existing turnouts on resurfacing and widening/resurfacing projects. Consists of excavation and construction of asphalt base course, and specifically excludes placing of AC surface course.

**Related Items**

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

**Design Forms and Documentation**

- SBTurnouts: Summary of Turnouts
- Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**

- 700-050-56: Daily Log Sheet Miscellaneous Tabulation Form Site Source Record
- Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- PPM Chapter
- Trnsport
- Other Standards: Index No. 516
## Specifications Section 286
### Prep & Doc Manual Chapter(s) 6, 9, 13

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

**Struct.** 286-2- TURNOUT CONSTRUCTION- ASPHALT TN

### 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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**287-1- ASPHALT TREATED PERMEABLE BASE**

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<th>Accuracy</th>
<th>PlanQuantity?</th>
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</thead>
<tbody>
<tr>
<td>CY; M3</td>
<td>Cubic Yard; Cubic Meter</td>
<td>yes</td>
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</tbody>
</table>

**Notes**

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

**Related Items**

- sumqr: Roadway Summary of Quantities Sheet

**Construction Forms and Documentation**

- 700-050-54: Daily Report or Truck-Measured Material Site Source Record (and Sketch)

**PPM Chapter**

- sumqr: Roadway Summary of Quantities Sheet

- Locate in plans. Summarize quantities by location on summary sheet in the plans.

**References**

- Index No. 287
- Specifications Section 287
- Prep & Doc Manual Chapter(s) 6, 9, 13

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

**Struct.** 287-1- ASPHALT TREATED PERMEABLE BASE 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>
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**288-001- CEMENT TREATED PERMEABLE BASE**

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<th>Unit</th>
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</thead>
<tbody>
<tr>
<td>CY; M3</td>
<td>Cubic Yard; Cubic Meter</td>
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</table>

**Notes**

Details and Structure: Items 000 to 1999
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>1/1/2010</td>
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</tbody>
</table>

**315- 1-**  
STRESS ABSORBING MEMBRANE

**Notes**

CONTACT THE STATE PAVEMENT DESIGN OFFICE for approval, prior to using this item.

**Details**

Project specific specifications, including material and installation requirements, are needed.

Payment for this item includes all work and materials for the membrane.

NOTE: This item may serve as a replacement for Pavement Overlay fabric (Item 518-70), when approved by State Pavement Design Office.
Other Standards Specifications

T: Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Struct. 315-1- STRESS ABSORBING MEMBRANE 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>
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<tr>
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<td>SY</td>
<td>T</td>
<td>1/1/2010</td>
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</tbody>
</table>

324-1- REWORKED ASPHALT CONCRETE

Unit SY; M2 Accuracy Square Yard; Square Meter

Notes Specification under development; refer to pay item 905-324-A.

Details VERIFY DETAILS OF CURRENT SPECIFICATION.

Includes milling, recycling in place, placement asphalt, and warranty bond.

Quantity will be measured in place, with contractor certified quantities.

Related Items

Design Forms and Documentation

sumqrd: Roadway Summary of Quantities Sheet

Locate in plans. Summarize quantities by location on summary sheet in the plans.

Construction Forms and Documentation

No additional form required; use plans summary or comp book

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

References PPM Chapter

Trns-port

Other Standards Specifications

D: Specification under development

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

TRNS*PORT Category (DRAFT FIELD):

Struct. 324-1- REWORKED ASPHALT CONCRETE SY

Notes

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

| Unit    | SY; M2 | Accuracy | Square Yard; Square Meter | Plan Quantity? | 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.

Required
Recommended
300-1-1 (2300-1-1)

Design Forms and Documentation
COMP 700-050-01: Area Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation
No additional form required; use plans summary or comp book
Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References
PPM Chapter
Trns-port
Other
Standards
Specifications Section 327
Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Struct. 327-70-AA MILLING EXISTING ASPHALT PAVEMENT SY

AA =
1 (1" Avg. Depth)
2 (3 1/2" Avg. Depth)
3 (4 1/2" Avg. Depth)
4 (3" Avg. Depth)
5 (2" Avg. Depth)
6 (1 1/2" Avg. Depth)
7 (4" Avg. Depth)
8 (2 1/2" Avg. Depth)
9 (5 1/4 Avg. Depth)
10 (5" Avg. Depth)
11 (2 1/4" Avg. Depth)
12 (1 1/4" Avg. Depth)
13 (1 3/4" Avg. Depth)
14 (6 1/2" Avg. Depth)
15 (2 3/4" Avg. Depth)
16 (1/2" Avg. Depth)
17 (3 1/4" Avg. Depth)
18 (5 1/2" Avg. Depth)
19 (3/4" Avg. Depth)
20 (3 3/4" Avg. Depth)
21 (7" Avg. Depth)
22 (4 1/4" Avg. Depth)
23 (6" Avg. Depth)  
26 (4 3/4" Avg. Depth)  
27 (5 3/4" Avg. Depth)  
28 (6 3/4" Avg Depth)  
29 (6 1/4" Avg Depth)

**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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</table>
334- 1- AA SUPERPAVE ASPHALTIC CONCRETE

Unit: TN; MT
Accuracy: 1/10 Ton; 1/10 Metric Ton
PlanQuantity?: no

Notes
See detail below for projects with Safety Edge.

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.

From specification 334-1.4: Plan quantities are based on a Gmm of 2.540, corresponding to a spread rate of 110 lbs/yd2-in. Pay quantities will be based on the actual maximum specific gravity of the mix being used.

**********************
Safety Edge is currently under review with selected projects. It is to be used only when approved in accordance with State Roadway Design Office guidelines. For approved projects, calculate the additional asphalt required for the safety edge, and include the quantities with Superpave Asphalt (surface course), per ton. Plan Details will be required, in accordance with the developmental specifications.

Related Items

Design Forms and Documentation
COMP 700-050-06: Weight Measure or Liquid Volume Comp & Cont.
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation
700-050-66: Contractor’s Certification of Quantities- Asphalt & Bituminous Materials
Contractor’s Certification of Quantities must be submitted. Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References
PPM Chapter
Trns·port
Other
Standards
Specifications Section 334
Prep & Doc Manual Chapter(s) 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Struct. 334- 1- AA SUPERPAVE ASPHALTIC CONCRETE TN
AA = Traffic
11 (A)
12 (B)
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>

Notes

Selected pay items work with developmental specifications (see structure below); coordinate with the Specifications Office and/or the monitor.

Monitor: Greg Sholar

Details

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 11/2 in (40mm)
Topic No. 600-000-002
Basis of Estimates

February 20, 2012

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 ½ 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

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

Design Forms and Documentation

- COMP 700-050-08: Weight Measure or Liquid Volume Comp & Cont.
  - Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation

- 700-050-66: Contractor's Certification of Quantities- Asphalt & Bituminous Materials
  - Contractor's Certification of Quantities must be submitted. Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

- PPM Chapter
- Trns·port
- Other
- Standards
- Specifications Section 337
- Prep & Doc Manual Chapter(s) 11, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Struct. 337- 7- AA ASPHALT CONCRETE FRICITION COURSE TN

AA = Type
5 (FC-5, Rubber)
22 (FC-5, PG 76-22)

29 (Traffic B, FC 4.75, Rubber) coordinate with State Materials Office; specs under development
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)

39 (Traffic B, FC 4.75, PG 76-22)*coordinate with State Materials Office; specs under development
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)

Developmental Specifications required for the following items:
50 (Traffic B, FC 4.75, PG 82-22)
51 (Traffic B, FC-9.5, PG 82-22)
52 (Traffic B, FC-12.5, PG 82-22)
53 (Traffic C, FC 4.75, PG 82-22)
54 (Traffic C, FC-9.5, PG 82-22)
55 (Traffic C, FC-12.5, PG 82-22)
56 (Traffic D, FC 4.75, PG 82-22)
57 (Traffic D, FC-9.5, PG 82-22)
58 (Traffic D, FC-12.5, PG 82-22)

60 (Traffic B, FC 4.75, PG 67-22)
61 (Traffic B, FC-9.5, PG 67-22)
62 (Traffic B, FC-12.5, PG 67-22)
63 (Traffic C, FC 4.75, PG 67-22)
64 (Traffic C, FC-9.5, PG 67-22)
65 (Traffic C, FC-12.5, PG 67-22)
66 (Traffic D, FC 4.75, PG 67-22)
67 (Traffic D, FC-9.5, PG 67-22)
68 (Traffic D, FC-12.5, PG 67-22)

### 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>
### 339-1- MISCELLANEOUS ASPHALT PAVEMENT

**Notes**

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/sy-in (22kg/m² per 10mm) thickness.

**Related Items**

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<thead>
<tr>
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**Design Forms and Documentation**

SBAsphaltMisc: Miscellaneous Asphalt

Locate in plans. Summarize quantities by location on summary sheet in the plans. NOTE: When included on guardrail summary, do not duplicate quantities on Misc Asphalt Summary.

**Construction Forms and Documentation**

700-050-66: Contractor’s Certification of Quantities- Asphalt & Bituminous Materials

Contractor’s Certification of Quantities must be submitted. Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter

Trns-port

Other Standards

Index No. 400 for guardrail applications

Specifications

Section 339

Prep & Doc Manual Chapter(s)

Contact Final Estimates

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

**Struct.** 339-1- MISCELLANEOUS ASPHALT PAVEMENT TN

### 341-70- ASPHALT RUBBER MEMBRANE INTERLAYER

**Unit** SY; M²

**Accuracy** Square Yard; Square Meter

**PlanQuantity?** no

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<tr>
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</table>

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Details and Structure: Items 000 to 1999
Notes
Details
Consists of a separate application of asphalt rubber binder covered with a single application of aggregate. Payment for bituminous material (rubber binder) is incidental to this item.

Required
Recommended
Design Forms and Documentation
COMP 700-050-01: Area Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation
700-050-66: Contractor’s Certification of Quantities- Asphalt & Bituminous Materials
Contractor’s Certification of Quantities must be submitted. Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References
PPM Chapter
Trns-port
Other Standards
Specifications Section 341
Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Struct. 341-70- ASPHALT RUBBER MEMBRANE INTERLAYER SY

Notes
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350-1 AA CEMENT CONCRETE PAVEMENT PLAIN

Unit SY; M2 Accuracy Square Yard; Square Meter PlanQuantity? yes

Notes
Details
Consists of placement of plain Portland Cement Concrete pavement and also of construction of pavement joints.
For colored concrete, see 523 items.

Through June 2011: Payment for grinding new concrete pavement is included with new concrete.
Effective July 2011: Pay for grinding separately, under Section 352 for all new concrete pavement.

Related Items
Required 352-70-
Recommended
Design Forms and Documentation
COMP 700-050-01: Area Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.
No additional form required; use plans summary or comp book

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

**References**

- **PPM Chapter**
- **Trns port**
- **Other**
  - **Standards** Index No. 305, 560
  - **Specifications** Section 350
  - **Prep & Doc Manual Chapter(s)** 6, 7, 13

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

**Struct.** 350- 1- AA  CEMENT CONCRETE PAVEMENT PLAIN SY

AA = Average thickness
1 (6")
2 (7")
3 (8")
4 (9")
5 (10")
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")
19 (12 1/2")
20 (9 1/2" Avg.)
21 (Var. 11" Avg.) after 6-30-12, use AA=12
22 (Var. 11 1/2" Avg.) after 6-30-12, use AA=13
23 (14 1/2")

**Notes**

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0350 1 13 PLAIN CEMENT CONCRETE PAVEMENT, 11 1/2" SY 1/1/2010
0350 1 14 PLAIN CEMENT CONCRETE PAVEMENT, 14" SY 1/1/2010
0350 1 15 PLAIN CEMENT CONCRETE PAVEMENT, 13 1/2" SY 1/1/2010
0350 1 16 PLAIN CEMENT CONCRETE PAVEMENT, 10 1/2" SY 1/1/2010
0350 1 17 PLAIN CEMENT CONCRETE PAVEMENT, 8 1/2" SY 1/1/2010
0350 1 19 PLAIN CEMENT CONCRETE PAVEMENT, 12 1/2" SY 1/1/2010
0350 1 20 PLAIN CEMENT CONCRETE PAVEMENT, 9 1/2" AVERAGE SY 1/1/2010
0350 1 21 PLAIN CEMENT CONCRETE PAVEMENT, VARIABLE 11" AVERAGE SY 1/1/2010 6/30/2012
0350 1 22 PLAIN CEMENT CONCRETE PAVEMENT, VAR 11 1/2" AVG SY 1/1/2010 6/30/2012
0350 1 23 PLAIN CEMENT CONCRETE PAVEMENT, 14 1/2" SY 1/1/2010

### 350- 2- AA CEMENT CONCRETE PAVEMENT, REINFORCED

**Unit** SY; M2  
**Accuracy** Square Yard; Square Meter  
**PlanQuantity?** yes

**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.

Through June 2011: Payment for grinding new concrete pavement is included with new concrete.
Effective July 2011: Pay for grinding separately, under Section 352 for all new concrete pavement.

**Related Items**
**Required** 352- 70-  
**Recommended**

**Design Forms and Documentation**
COMP 700-050-01: Area Computation and Continuation  
Locate in the plans. Summarize quantities by location in the computation book.

**Construction Forms and Documentation**
No additional form required; use plans summary or comp book  
Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**
PPM Chapter  
Trns-port  
Other Standards Index No. 305, 560  
Specifications Section 350


### 350-2- AA

**CEMENT CONCRETE PAVEMENT, REINFORCED**

**SY**

AA = thickness

1 (6")
3 (8")
4 (9")
10 (12")
12 (11")
17 (8.5")

#### Notes

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<table>
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#### 350-72-

**CLEANING & RESEALING JOINTS IN CONCRETE PAVEMENT**

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<td>Linear Foot; 1/10 Meter</td>
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#### 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.

#### Related Items

**Required**

**Recommended**

**Design Forms and Documentation**

COMP 700-050-09: Linear Measure Comp with Components and Cont., or COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation

Locate in the plans. Summarize quantities by location in the computation book.

#### References

PPM Chapter
Trns-port

**Other**

**Standards**
Index No. 305

**Specifications**
Section 350

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>
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<th>Obsolete Date</th>
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<tr>
<td>0350</td>
<td>CLEANING &amp; RESEALING JOINTS- EXISTING CONCRETE</td>
<td>LF</td>
<td></td>
<td>1/1/2010</td>
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<td></td>
<td>Pavement: REHAB</td>
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</tr>
</tbody>
</table>

350- 78-

CLEANING AND SEALING RANDOM CRACKS IN CONCRETE PAVEMENT

Unit  LF; M1  Accuracy  Linear Foot; 1/10 Meter  PlanQuantity?  no

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

Required  Recommended

Design Forms and Documentation

COMP 700-050-09: Linear Measure Comp with Components and Cont., or COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation

No additional form required; use plans summary or comp book
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter
Trns-port
Other
Standards
Specifications  Section 350
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  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>
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<tr>
<td>0350</td>
<td>CLEANING &amp; SEALING RANDOM CRACKS IN EXISTING CONCRETE PAVEMENT- REHAB</td>
<td>LF</td>
<td></td>
<td>1/1/2010</td>
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</tbody>
</table>

352- 70-

GRINDING CONCRETE PAVEMENT

Unit  SY; M2  Accuracy  Square Yard; Square Meter  PlanQuantity?  no
Notes
Details
Through June 2011: This item to be used on existing concrete pavement only. Grinding of new concrete pavement included in the bid price for Cement Concrete Pavement.

Effective July 2011: This item will be used for grinding (1) existing concrete pavement shown in the plans, (2) new concrete pavement - the full width of the travel lanes, (3) shoulders, when shown in the plans to promote drainage. (Separate payment for grinding will be made for all concrete pavement - new and existing concrete.)

DO NOT Use on bridge structures; refer to Section 400 items for grinding deck slabs.

Related Items
Required Recommended

Design Forms and Documentation
COMP 700-050-01: Area Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation
No additional form required; use plans summary or comp book
Record final quantity on the computation book form.

References
PPM Chapter
Trns-port
Other
Standards
Specifications Section 352
Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

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>
<th>Item</th>
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<td>SY</td>
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<td></td>
</tr>
</tbody>
</table>

353-70- CONCRETE PAVEMENT SLAB REPLACEMENT

Notes
Details
For use on existing Concrete Pavement roadways only.

Per specification, "the quantity will be calculated on the basis of field measured horizontal dimensions and pavement design thickness. No additional compensation will be allowed for additional concrete required to bring the proposed concrete slab up to finished grade."

Related Items
Required Recommended

Design Forms and Documentation
COMP 700-050-07: Concrete & Reinforcing Steel Comp & Cont.
Locate in the plans. Summarize quantities by location in the computation book.
No additional form required; use plans summary or comp book

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

PPM Chapter

Trns-port

Other Standards  Index No. 305, 308

Specifications Section 353

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

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

**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.*

<table>
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<tr>
<th>Item</th>
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<tr>
<td>0353 70</td>
<td>CONCRETE PAVEMENT SLAB REPLACEMENT</td>
<td>CY</td>
<td>1/1/2010</td>
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</tr>
</tbody>
</table>

**370- 1-**  BRIDGE APPROACH EXPANSION JOINT FOR CONCRETE PAVEMENT

**Notes**

Unit  LF; M1  Accuracy  Linear Foot; 1/10 Meter  PlanQuantity?  yes

Details

To be used in accordance with Index 306. 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.

Pay quantity of expansion joint is to be calculated across pavement at right angles to the centerline of the roadway pavement. Shoulder pavement joint is included in the total length.

For Bridge Deck Expansion Joints (on the bridge, rather than concrete pavement), use pay item 458-1-AB.

NOTE: This is a roadway pay item.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
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<tbody>
<tr>
<td>Design Forms and Documentation</td>
<td>COMP 700-050-09: Linear Measure Comp with Components and Cont., or COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation</td>
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<tr>
<td>Locate in the plans. Summarize quantities by location in the computation book.</td>
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</table>

<table>
<thead>
<tr>
<th>Construction Forms and Documentation</th>
<th>No additional form required; use plans summary or comp book</th>
</tr>
</thead>
<tbody>
<tr>
<td>Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.</td>
<td></td>
</tr>
</tbody>
</table>

**References**

PPM Chapter

Trns-port

Details and Structure: Items 000 to 1999
Struct. 370-1- BRIDGE APPROACH EXPANSION JOINT FOR 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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<td>1/1/2010</td>
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400-ALL Class NS, I, II, III, IV, V, VI Details

<table>
<thead>
<tr>
<th>Notes</th>
</tr>
</thead>
</table>

NOTES BELOW ARE FOR CLASS NS, I, II, III, IV, and V, VI CONCRETE

Unit CY; M3  Accuracy 1/10 Cubic Yard; 1/10 Cubic Meter  PlanQuantity? yes/no

Details

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.

CULVERTS: Refer to Design Standards for correct class of concrete and other payment details. For index 289, 291 and 292, class 1 is valid through 12/2011.

ENDWALLS: Refer to Design Standards for correct class of concrete and other payment details. For some U-endwalls, including Index 260 and 261, payment is made under 430 items. For Index 250, reinforcing steel is included in cost of concrete.

JUNCTION SLAB FOR GRAVITY WALLS: (Effective July 2010-June 2011) Payment for Junction Slab on Gravity Wall (Index 520) will be included in payment for 521-8 Retaining Wall with Junction Slab. Do not include junction slab quantities with CY gravity wall quantities.

JUNCTION SLAB FOR GRAVITY WALLS: (Effective July 2011) Payment for Junction Slab on Gravity Wall (Index 6011) will be included in payment for 521-8 Concrete Traffic Railing Barrier with Junction Slab. Do not include junction slab quantities with CY gravity wall quantities.

STEPS: Per Index 521, Payment for reinforcing steel shall be made under 415-1-13 misc
steel.

Misc Concrete (through June 2009 letting): Estimate 5 CY (5 M3) minimum. PENDING: To be replaced by Class NS concrete or other non-concrete items, to which concrete is incidental.

Misc Concrete (effective July 2009 letting): No separate payment is made for Misc Concrete. Work and materials are to be included in the item to which it is incidental- pull & junction box, lighting, signing, etc.

Precast Deck Overlay: consists of Class II with steel fiber reinforcement; Class IV with polymer fiber reinforcement and low shrinkage admixtures. Coordinate Use of this item with the State Structures Design Office. Requires modified specifications.

Seal Concrete, 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.

Precast Segmental Production: Refer to Section 452 of the specifications, as needed.

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 1.4.3.

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.

Related Items
Required
Recommended 415- 1- A

Design Forms and Documentation
COMP 700-050-07: Concrete & Reinforcing Steel Comp & Cont.
Locate in the plans. Summarize quantities by location in the computation book.
No additional form required; use plans summary or comp book

see detail

Mass Concrete SDG 3.9, Class and Admixtures SDG 1.4.3, Cofferdams and Seals SDG 3.7.

Normally requires SHOP DRAWINGS

See pay item structure for applicable Index numbers.

Sections 346, 400

6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

AAA = Applications, Valid Class(es)
1 (Culverts) Class I, II, IV **Class 1 valid through 12/2011**
2 (Endwalls) Class I, II, IV, excluding Index 260 & 261 U-endwalls
4 (Superstructure) Class II, IV
5 (Substructure) Class II, IV
6 (Counterweight) Class IV
8 (Bulkhead) Class II, III, IV: Index 6040*
10 (Approach Slabs) Class II
11 (Retaining Walls) CIP Retaining walls; DO NOT use this item for walls covered by 548 specifications
  Class NS: Gravity Wall Index 520/6011*
  Class II, III, IV: 5000 series/6010*
12 (Trench Slabs) Class II
13 (Concrete Steps) Class NS, Index 521
15 (Miscellaneous) **Valid through June 2009 letting**
20 (Seal) Class III
22 (Superstructure Closure Joint) Class IV, VI
25 (Mass- Substructure) Class I, II, IV
39 (Precast Segmental Superstructure) Class IV, VI. Refer to Section 452.
40 (Precast Segmental Substructure) Class IV, V. Refer to Section 452.
41 (Precast Deck Overlay) Class II with steel fiber reinforcement; Class IV with polymer 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
45 (Precast Substructure) Class III
104 (Superstructure Light-Weight) Class IV
105 (Superstructure Special) Class ??
106 (Microsilica Substructure) Class V
107 (Microsilica Substructure-Mass) Class V
239 (Low Shrink Deck) Material Only, Class V

*Index numbers show both old (through June 2011)/ new (effective July 2011) references.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
Unit: CY; M3  
Accuracy: 1/10 Cubic Yard; 1/10 Cubic Meter  
PlanQuantity?: yes/no

Notes
Details: Refer to 400- -ALL for details on all classes of concrete

Required: COMP 700-050-07: Concrete & Reinforcing Steel Comp & Cont.
Recommended: 415-1-A


Construction Forms and Documentation: No additional form required; use plans summary or comp book

References
PPM Chapter: See detail
Trns-port
Other: Mass Concrete SDG 3.9, Class and Admixtures SDG 1.4.3, Cofferdams and Seals SDG 3.7.
Prep & Doc Manual Chapter(s): 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Struct. 400-0-AAA CLASS NS CONCRETE CY
AAA = Class 0 Applications
11 (Gravity Wall) Index 520/6011*
13 (Concrete Steps) Index 521

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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<tr>
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<td>CY</td>
<td>1/1/2010</td>
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<tr>
<td>0400 0 13</td>
<td>CONCRETE CLASS NS, STEPS</td>
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<td>1/1/2010</td>
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</table>

400-1-AAA CLASS I CONCRETE
Unit: CY; M3  
Accuracy: 1/10 Cubic Yard; 1/10 Cubic Meter  
PlanQuantity?: yes/no

Notes
Details: Refer to 400- -ALL for details on all classes of concrete

Required: COMP 700-050-07: Concrete & Reinforcing Steel Comp & Cont.
Recommended: 415-1-A


Construction Forms and Documentation: No additional form required; use plans summary or comp book

see detail
### References

**PPM Chapter**

**Trns-port**

**Other**

Mass Concrete SDG 3.9, Class and Admixtures SDG 1.4.3, Cofferdams and Seals SDG 3.7.

Normally requires SHOP DRAWINGS

**Standards**

Refer to 400- -ALL for details on all classes of concrete

**Specifications**

Sections 346, 400

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

6, 7, 13

---

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

100 or 200 Structures or Roadway

### Struct. 400- 1-AAA

CLASS I CONCRETE CY

AAA = Class I Applications

1 (Culverts) valid through 12/2011, per index change to 289, 291, 292

2 (Endwalls) Note: Does not include Index 260 or 261 U-endwalls

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**Notes**

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<td>CY</td>
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### 400- 2-AAA

CLASS II CONCRETE

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<th>Accuracy</th>
<th>PlanQuantity?</th>
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<tbody>
<tr>
<td>CY; M3</td>
<td>1/10 Cubic Yard; 1/10 Cubic Meter</td>
<td>yes/no</td>
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</tbody>
</table>

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**Notes**

Refer to 400- -ALL for details on all classes of concrete

**Design Forms and Documentation**

COMP 700-050-07: Concrete & Reinforcing Steel Comp & Cont.

Locate in the plans. Summarize quantities by location in the computation book.

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book

---

**References**

**PPM Chapter**

**Trns-port**

**Other**

Mass Concrete SDG 3.9, Class and Admixtures SDG 1.4.3, Cofferdams and Seals SDG 3.7.

**Standards**

Refer to 400- -ALL for details on all classes of concrete

**Specifications**

Sections 346, 400

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

---

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

100 or 200 Structures or Roadway
Struct.  400-  2-AAA  CLASS II CONCRETE  CY

AAA = Class II Applications
1 (Culverts)
2 (Endwalls) Note: Does not include Index 260 or 261 U-endwalls
4 (Superstructure)
5 (Substructure)
10 (Approach Slabs)
11 (Retaining Walls) CIP retaining walls. NOTE: DO NOT use this item for walls covered by 548 specifications.
12 (Trench Slabs)
15 (Miscellaneous) **Valid through June 2009 letting**
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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<tr>
<th>Item</th>
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<td>0400 2 2</td>
<td>CONCRETE CLASS II, ENDWALLS</td>
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<tr>
<td>0400 2 5</td>
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<td>1/1/2010</td>
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<tr>
<td>0400 2 8</td>
<td>CONCRETE CLASS II, BULKHEAD</td>
<td>CY</td>
<td>1/1/2010</td>
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<tr>
<td>0400 2 10</td>
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<td>CY</td>
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<td>CY</td>
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</table>

400-  3-AAA  CLASS III CONCRETE

Unit  CY; M3  Accuracy  1/10 Cubic Yard; 1/10 Cubic Meter  PlanQuantity?  yes/no

Notes

Details  Refer to 400- -ALL for details on all classes of concrete
Related Items  Required  Recommended  415-  1-  A

Design Forms and Documentation  COMP 700-050-07: Concrete & Reinforcing Steel Comp & Cont.
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation  No additional form required; use plans summary or comp book
see detail

References  PPM Chapter
Trns·port  Mass Concrete SDG 3.9, Class and Admixtures SDG 1.4.3, Cofferdams and Seals SDG 3.7.
Other
Standards  Refer to 400- -ALL for details on all classes of concrete
### Specifications
Sections 346, 400

### Prep & Doc Manual Chapter(s)

**TRNS*PORT Category (DRAFT FIELD):** 100 or 200 Structures or Roadway

**Struct. 400-3-AAA CLASS III CONCRETE CY**

AAA = Class III Applications

11 (Retaining Walls) CIP retaining walls. NOTE: DO NOT use this item for walls covered by 548 specifications.

20 (Seal) Class III

45 (Precast Substructure)

### 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>0400 3 20</td>
<td>CONC CLASS III, SEAL</td>
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</table>

### Struct. 400-4-AAA CLASS IV CONCRETE CY

AAA = Class IV Applications

### Notes

Refer to 400-ALL for details on all classes of concrete

Class IV normally used for aggressive environments.

### Related Items

**Required** 415-1-A

**Recommended**

**Design Forms and Documentation**

COMP 700-050-07: Concrete & Reinforcing Steel Comp & Cont.

Locate in the plans. Summarize quantities by location in the computation book.

### Construction Forms and Documentation

No additional form required; use plans summary or comp book

see detail

### References

**PPM Chapter**

**Trns-port**

**Other** Mass Concrete SDG 3.9, Class and Admixtures SDG 1.4.3, Cofferdams and Seals SDG 3.7.

**Standards**

Refer to 400-ALL for details on all classes of concrete

**Specifications** Sections 346, 400

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

**TRNS*PORT Category (DRAFT FIELD):** 100 or 200 Structures or Roadway

**Struct. 400-4-AAA CLASS IV CONCRETE CY**

AAA = Class IV Applications

---

**Details and Structure: Items 000 to 1999**
1 (Culverts)
2 (Endwalls) Note: Does not include Index 260 or 261 U-endwalls
4 (Superstructure)
5 (Substructure)
6 (Counterweight)
8 (Bulkhead)
11 (Retaining Walls) CIP retaining walls. NOTE: DO NOT use this item for walls covered by 548 specifications.
22 (Superstructure Closure Joint)
25 (Mass - Substructure)
39 (Precast Segmental Superstructure)
40 (Precast Segmental Substructure)
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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<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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400-6- PRECAST ANCHOR BEAMS

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<th>Each</th>
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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 Recommended

Design Forms and Documentation

COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation

Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation

No additional form required; use plans summary or comp book

Record final quantity on the computation book form.
### 0400 6

**Description:** PRECAST ANCHOR BEAMS

**Unit:** EA

**Valid Date:** 1/1/2010

---

### 400- 7-

**Description:** 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

**Design Forms and Documentation**

- COMP 700-050-01: Area Computation and Continuation
- Locate in the plans. Summarize quantities by location in the computation book.

**Construction Forms and Documentation**

- No additional form required; use plans summary or comp book
- Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

---

### References

- **PPM Chapter**
- **Trns-port**
- **Other Standards**
- **Specifications** Section 400
- **Prep & Doc Manual Chapter(s)** 6, 7, 13
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</table>

### 400- 8-AAA CLASS V CONCRETE

**Unit**: CY; M3  
**Accuracy**: 1/10 Cubic Yard; 1/10 Cubic Meter  
**Plan Quantity?**: yes/no

**Notes**

Refer to 400- ALL for details on all classes of concrete

**Related Items**

Required  
Recommended: 415- 1- A

**Design Forms and Documentation**

COMP 700-050-07: Concrete & Reinforcing Steel Comp & Cont.

Locate in the plans. Summarize quantities by location in the computation book.

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book

**References**

PPM Chapter  
Trns-port  
Other  
Mass Concrete SDG 3.9, Class and Admixtures SDG 1.4.3, Cofferdams and Seals SDG 3.7.

**Standards**

Refer to 400- ALL for details on all classes of concrete

**Specifications**

Section 400

**T**: Plan Details and/or Technical Specifications required

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

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

**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.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<td>1/1/2010</td>
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<tr>
<td>0400 8 22</td>
<td>CONCRETE CLASS V, SUPER STRUCTURE CLOSURE JOINT</td>
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<td>0400 8 25</td>
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<td>0400 8106</td>
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</tbody>
</table>
### 400- 9- BRIDGE DECK GROOVING AND PLANING- DECK THICKNESS 8.5" or GREATER

**Unit** SY; M2  
**Accuracy** Square Yard; Square Meter  
**PlanQuantity?** yes

**Notes**
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).

**Details**

**Related Items**
**Required** COMP 700-050-01: Area Computation and Continuation  
**Recommended** Locate in the plans. Summarize quantities by location in the computation book.

**Construction Forms and Documentation**
No additional form required; use plans summary or comp book  
Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**Specifications**
Section 400

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

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

**Struct. 400- 9- BRIDGE DECK GROOVING AND PLANING- DECK THICKNESS 8.5" 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>
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### 400- 10- PRECAST PANEL (ARCHITECTURAL)

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

**Notes**

**Details**

**Related Items**
**Required** COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation  
**Recommended** Locate in the plans. Summarize quantities by location in the computation book.
No additional form required; use plans summary or comp book
Record final quantity on the computation book form.

References
PPM Chapter
Trns-port
Other Standards
Specifications
Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Struct. 400-10- PRECAST PANEL (ARCHITECTURAL) 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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</table>

400-16-AAA CLASS VI CONCRETE

Unit CY; M3
Accuracy 1/10 Cubic Yard; 1/10 Cubic Meter
PlanQuantity? yes/no

Notes
Refer to 400- -ALL for details on all classes of concrete

Details
Required
Recommended 415-1- A

Related Items
COMP 700-050-07: Concrete & Reinforcing Steel Comp & Cont.
Locate in the plans. Summarize quantities by location in the computation book.

References
PPM Chapter
Trns-port
Other Standards
Specifications Section 400

T: Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

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

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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</table>

400- 20- GRINDING BRIDGE DECK- REHABILITATION ONLY

Unit  SY; M2  Accuracy  Square Yard; Square Meter  PlanQuantity?  no

Notes  Estimates Support: Contact the State Structures Design Office before opening item.

Details

For use on bridge rehabilitation projects only.

Related Items

Required  Recommended

Design Forms and Documentation

COMP 700-050-01: Area Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation

No additional form required; use plans summary or comp book
Record final quantity on the computation book form.

References

PPM Chapter
Trns-port
Other
Standards
Specifications

M: Monitored item

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Struct.  400- 20- GRINDING BRIDGE DECK- REHABILITATION ONLY  SY

Notes  Estimates Support: Contact the State Structures Design Office before opening item
<table>
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<th>Item</th>
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### 400-32- CONCRETE FOR JOINT REPAIR

**Unit**: CY; M3  
**Accuracy**: 1/10 Cubic Yard; 1/10 Cubic Meter  
**PlanQuantity**: yes

**Details**
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**

**Required**

**Recommended**

**Design Forms and Documentation**
COMP 700-050-04: Volume Measure Items and Continuation  
Locate in the plans. Summarize quantities by location in the computation book.

**Construction Forms and Documentation**
No additional form required; use plans summary or comp book  
Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**
PPM Chapter  
Trns-port  
Other SDG 6.4  
Standards Specifications  
T: Plan Details and/or Technical Specifications required  
Prep & Doc Manual Chapter(s) 6, 7, 13

**TRNS*PORT Category (DRAFT FIELD)**: 0100 Structures  
**Struct.**: 400-32- CONCRETE FOR JOINT REPAIR CY

**Notes**
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</table>

### 400-40- GROUT FOR FULL DEPTH PRECAST DECK

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

**Notes**
Developmental Item: Contact State Structures Office prio to use.

**Details**
Monitor: Gevin McDaniel  
DRAFT DETAIL: This item is intended ONLY for use with Full Depth Precast Decks. Note that trasverse joints are included with the payment for Full Depth Precast Decks, per SY.
This item is used to grout longitudinally between the beams and the under side of the deck.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>400-41-ABB</th>
<th>Recommended</th>
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</table>

**Design Forms and Documentation**

**Construction Forms and Documentation**

**References**

- PPM Chapter
- Trns-Port
- Other
- Standards
- Specifications
- Prep & Doc Manual Chapter(s)

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

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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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</table>

**Developmental Item: Contact State Structures Office prior to use.**

**Monitor:** Gevin McDaniel

DRAFT DETAIL: This item is intended ONLY for Full Depth Precast Decks. Materials and construction of concrete transverse joints are included with payment for the deck.

Separate payment will be made for grout placed longitudinally between the beams and the under side of the deck, and for expansion joints covered by Section 548.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
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<th>Recommended</th>
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**Design Forms and Documentation**

**Construction Forms and Documentation**

**References**

- PPM Chapter
- Trns-Port
Other Standards Specifications Prep & Doc Manual Chapter(s)

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

**Struct. 400-41-ABB FULL DEPTH PRECAST DECK SY**

A= Type  
1 (Pretensioned)  
2 (Precast)  

B= Nominal Thickness: Open in .5" increments only  
80 (8.0")  
85 (8.5")  
90 (9.0")

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>1/1/2012</td>
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</table>

### 400-60- A CATHODIC PROTECTION- ELECTRICAL WORK

**Unit** LS/LS  
**Accuracy** Lump Sum  
**PlanQuantity?** no

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 products, 455-81 CP for piles, or 457 items- CP for integral pile jackets. Contact the Materials Lab for assistance with using this item.

**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**

### Design Forms and Documentation

- **COMP 700-050-05: Lump Sum Quantities**
- Use a quantity of 1, but calculations and computation book documentation must be to the second unit of measure. Locate or define the scope of work involved on the plans.

### Construction Forms and Documentation

- No additional form required; use plans summary or comp book
- Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References

- **PPM Chapter**
- **Trns-port**
- **Other Standards**
- **Specifications**

**T: Plan Details and/or Technical Specifications required**

### Prep & Doc Manual Chapter(s)

### TRNS*PORT Category (DRAFT FIELD): 0100 Structures

#### Struct. 400-60- A CATHODIC PROTECTION- ELECTRICAL WORK LS/LS

- A= Components (Select only 1 power source assembly; use with BOTH A= 3 and 4)  
  1 (AC Power Source Assembly) LS  
  2 (DC Power Source Assembly) LS  
  3 (Conduit, Wiring, and Accessories) LS/LF  
  4 (Equipment & Instrumentation) 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>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</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>1/1/2010</td>
<td></td>
</tr>
<tr>
<td>0400 60 2</td>
<td>CATHODIC PROTECTION - ELECTRICAL WORK, DC POWER SOURCE ASSEMBLY</td>
<td>LS</td>
<td>T</td>
<td>1/1/2010</td>
<td></td>
</tr>
<tr>
<td>0400 60 3</td>
<td>CATHODIC PROTECTION - ELECTRICAL WORK, CONDUIT, WIRING, AND ACCESSORIES</td>
<td>LS</td>
<td>T</td>
<td>1/1/2010</td>
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</tr>
<tr>
<td>0400 60 4</td>
<td>CATHODIC PROTECTION - ELECTRICAL WORK, EQUIPMENT &amp; INSTRUMENTATION</td>
<td>LS</td>
<td>T</td>
<td>1/1/2010</td>
<td></td>
</tr>
</tbody>
</table>

### 400-72- PRECAST BULKHEAD PANELS

Details and Structure: Items 000 to 1999
### Unit

<table>
<thead>
<tr>
<th>SF; M²</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Square Foot; 1/10 Square Meter</td>
<td>yes</td>
<td></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 | Recommended | 455-34- AA

**Design Forms and Documentation**

COMP 700-050-01: Area Computation and Continuation

Locate in the plans. Summarize quantities by location in the computation book.

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book

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

**References**

PPM Chapter

T: Plan Details and/or Technical Specifications required

Trns-port

Other

SDG 3.12.9 and Figure 3-13. Normally requires SHOP DRAWINGS

**Standards**

**Specifications**

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

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

**Struct.** 400- 72- PRECAST BULKHEAD PANELSF

**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>
<td>0400 72</td>
<td>PRECAST BULKHEAD PANELS</td>
<td>SF</td>
<td>T</td>
<td>1/1/2010</td>
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</tr>
</tbody>
</table>

**400- 91- DEWATERING FOR SPREAD FOOTINGS**

<table>
<thead>
<tr>
<th>Unit</th>
<th>EA</th>
<th>Accuracy</th>
<th>Each</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>yes</td>
</tr>
</tbody>
</table>

### Notes

**Details**

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, 415-1-5. 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.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design Forms and Documentation</td>
<td>COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation</td>
<td>Locate in the plans. Summarize quantities by location in the computation book.</td>
</tr>
<tr>
<td>Construction Forms and Documentation</td>
<td>No additional form required; use plans summary or comp book</td>
<td>Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.</td>
</tr>
</tbody>
</table>

**References**
- PPM Chapter
- Trns-port
- Other Standards
- Specifications

*T: Plan Details and/or Technical Specifications required*

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

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

**Struct.** 400-91- DEWATERING FOR SPREAD FOOTINGS 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>
<th>Valid Date</th>
<th>Obsolete Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>0400 91</td>
<td>DEWATERING FOR SPREAD FOOTINGS</td>
<td>EA</td>
<td>T</td>
<td>1/1/2010</td>
<td></td>
</tr>
</tbody>
</table>

### 400-95- A COFFERDAM

**Notes**

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.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
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<tbody>
<tr>
<td>Design Forms and Documentation</td>
<td>COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation</td>
<td>Locate in the plans. Summarize quantities by location in the computation book.</td>
</tr>
</tbody>
</table>
No additional form required; use plans summary or comp book

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

**References**

**PPM Chapter**

**Trns-port**

**Other**

SDG 3.7.

**Specifications**

T: Plan Details and/or Technical Specifications required

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

---

**TRNS*PORT Category (DRAFT FIELD):** 0100  Structures

**Struct.** 400-95- A  COFFERDAM  EA

A =
1 (Bascule Pier)
3 (Special)

---

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>
</tr>
</thead>
<tbody>
<tr>
<td>0400 95 1</td>
<td>COFFERDAM, BASCULE PIER</td>
<td>EA</td>
<td>T</td>
<td>1/1/2010</td>
<td></td>
</tr>
<tr>
<td>0400 95 3</td>
<td>COFFERDAM, SPECIAL</td>
<td>EA</td>
<td>T</td>
<td>1/1/2010</td>
<td></td>
</tr>
</tbody>
</table>

---

**400-128-**  GROUTING PRECAST DECK PANELS (NON-SHRINK GROUT)

**Unit**  LF; M1  **Accuracy**  Linear Foot; 1/10 Meter  **PlanQuantity?**  no

**Notes**

Intended for grouting the keyways of precast deck panels for both new and rehabilitation projects, in accordance with Design Standard.

A Pay Item note is recommended to indicate that payment is based on the length of the keyway, for the work shown on the Design Standard. Payment for materials and labor includes grout, backer rod (when needed), and incidental materials.

On rehabilitation projects, include pay item notes to address payment of the various work items involved. A Tech Spec may be required to address removal of existing asphalt overlay, removal and preparation of existing keyways, grouting of keyways, post-tensioning and new overlay requirements.

**Related Items**

**Required**

**Recommended**

**Design Forms and Documentation**

COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation

Locate in the plans. Summarize quantities by location in the computation book.

---
**Construction Forms and Documentation**

No additional form required; use plans summary or comp book

Record final quantity on the computation book form.

**References**

PPM Chapter

Trns port

Other

Standards Index No. 20350

Specifications

Prep & Doc Manual Chapter(s) 6, 13

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

---

**Struct. 400-128-**

**GROUTING PRECAST DECK PANELS (NON-SHRINK GROUT)**

**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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<tr>
<td>0400128</td>
<td>GROUTING PRECAST DECK PANELS, NON-SHRINK GROUT</td>
<td>LF</td>
<td>T</td>
<td>1/1/2010</td>
<td></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.

Add a plan note to indicate the payment surface area, as well as application guidance: "Deck surface area to be covered is #### SY. The cost of this pay item includes two applications." Similarly, if the coating thickness and/or number of coats varies by manufacturer, the note could be "Deck surface area to be covered is #### SY. Apply the coating(s) in accordance with the manufacturer's instructions." If additional surface preparation guidance and/or coating application instructions are needed, consider using a tech spec.

Pay area should be the plan area, regardless of the number of applications or thickness 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**

**Design Forms and Documentation**

COMP 700-050-01: Area Computation and Continuation

Locate in the plans. Summarize quantities by location in the computation book.
**No additional form required; use plans summary or comp book**

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

---

**References**

PPM Chapter

Trns-port

Other

Standards

Specifications

*T*: Plan Details and/or Technical Specifications required

---

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

---

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

---

**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.

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<th>Item</th>
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<td>SY</td>
<td>T</td>
<td>1/1/2010</td>
<td></td>
</tr>
</tbody>
</table>

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**400-140- A NEOPRENE PAD REPLACEMENT**

**Unit** EA

**Accuracy** Each

**PlanQuantity?** no

---

**Notes**

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 400-147.

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**

COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation

**Recommended**

Locate in the plans. Summarize quantities by location in the computation book.

---

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book

Record final quantity on the computation book form.

---

**References**

PPM Chapter

Trns-port
**Other**  SDG 6.5  
**Standards**  Index No. 20500, 20501  
**Specifications**  

**T: Plan Details and/or Technical Specifications required**  
**Prep & Doc Manual Chapter(s) 6, 7, 13**  

**TRNS*PORT Category (DRAFT FIELD): 0100 Structures**  

**Struct. 400-140- A NEOPRENE PAD REPLACEMENT EA**  

A =  
1 (Bent / Pier)  
2 (Abutment)  

**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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<tbody>
<tr>
<td>0400140</td>
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<td>EA</td>
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<tr>
<td>0400140</td>
<td>NEOPRENE PAD REPLACEMENT, ABUTMENT</td>
<td>EA</td>
<td>T</td>
<td>1/1/2010</td>
<td></td>
</tr>
</tbody>
</table>

**400-142- A CATHODIC PROTECTION SYSTEM**  

**Unit**  SF; M2  
**Accuracy**  Square Foot; 1/10 Square Meter  
**PlanQuantity?**  no  

**Notes**  

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.  

**Related Items**  

**Required**  400- 60- A  
**Recommended**  

**Design Forms and Documentation**  

COMP 700-050-01: Area Computation and Continuation  
Locate in the plans. Summarize quantities by location in the computation book.  

**Construction Forms and Documentation**  

No additional form required; use plans summary or comp book  
Record final quantity on the computation book form.  

**References**  

PPM Chapter  
Trns-port
Other Standards Specifications

T: Plan Details and/or Technical Specifications required

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

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Struct. 400-142- A CATHODIC PROTECTION SYSTEM SF

A =
3 (Zinc Aluminum Spray)
4 (Zinc Aluminum Sheets)
7 (Titanium Mesh)
8 (Titanium Bars)
9 (Other Material) to be used only with approval of State Corrosion Engineer/Materials Office

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>
<td>0400142 3</td>
<td>CATHODIC PROTECTION SYSTEM, ZINC ALUMINUM SPRAY</td>
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<td>T</td>
<td>1/1/2010</td>
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<tr>
<td>0400142 4</td>
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<td>T</td>
<td>1/1/2010</td>
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<tr>
<td>0400142 7</td>
<td>CATHODIC PROTECTION SYSTEM, TITANIUM MESH</td>
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<td>T</td>
<td>1/1/2010</td>
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</tr>
<tr>
<td>0400142 8</td>
<td>CATHODIC PROTECTION SYSTEM, TITANIUM BARS</td>
<td>SF</td>
<td>T</td>
<td>1/1/2010</td>
<td></td>
</tr>
<tr>
<td>0400142 9</td>
<td>CATHODIC PROTECTION SYSTEM, OTHER MATERIAL</td>
<td>SF</td>
<td>T</td>
<td>1/1/2010</td>
<td></td>
</tr>
</tbody>
</table>

400-143- CLEANING AND COATING CONCRETE SURFACES, CLASS 5

Unit SF; M2  Accuracy Square Foot; 1/10 Square Meter  PlanQuantity? yes

Details

This is a concrete texture coating utilized as a final concrete finish. 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.

Per specification, "The cost of coating new concrete will not be paid for separately, but will be included in the cost of the item to which it is applied."

Show locations in plans w/ quantity block.

Related Items

Required

Design Forms and Documentation

COMP 700-050-01: Area Computation and Continuation

Locate in the plans. Summarize quantities by location in the computation 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>
<th>Valid Date</th>
<th>Obsolete Date</th>
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</thead>
<tbody>
<tr>
<td>0400143</td>
<td>CLEANING &amp; COATING CONCRETE SURFACE, CLASS 5</td>
<td>SF</td>
<td></td>
<td>1/1/2010</td>
<td></td>
</tr>
</tbody>
</table>

400-145- A CLEANING CONCRETE SURFACE

Unit LS/SF; LS/M2 Accuracy Lump Sum (Square Foot); Lump Sum (Square Meter) PlanQuantity? yes

Notes

Intended for cleaning existing class 5 finish coating of existing bridge. 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

Required Recommended

Design Forms and Documentation

COMP 700-050-05: Lump Sum Quantities

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

Construction Forms and Documentation

No additional form required; use plans summary or comp book

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

References

PPM Chapter
Trns·port
Other Standards
Specifications Section 400
Prep & Doc Manual Chapter(s) 6, 7, 13
Specifications

T: Plan Details and/or Technical Specifications required

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

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

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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<tr>
<td>0400145</td>
<td>CLEANING CONCRETE SURFACE</td>
<td>SF</td>
<td>T</td>
<td>1/1/2010</td>
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</table>

400-147- COMPOSITE NEOPRENE PADS

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>CF; M3</td>
<td>1/10 Cubic Foot; 1/100 Cubic Meter</td>
<td>yes</td>
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</table>

Notes

Related Items

<table>
<thead>
<tr>
<th>Design Forms and Documentation</th>
<th>Required</th>
<th>Recommended</th>
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</thead>
<tbody>
<tr>
<td>COMP 700-050-04: Volume Measure Items and Continuation</td>
<td>Locate in the plans. Summarize quantities by location in the computation book.</td>
<td></td>
</tr>
</tbody>
</table>

Construction Forms and Documentation

| 700-050-56: Daily Log Sheet Miscellaneous Tabulation Form Site Source Record | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

References

| SDG 6.5, Normally requires SHOP DRAWINGS |
| Index No. 20500, 20510 |
| Section 400 |

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

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Struct. 400-147- COMPOSITE NEOPRENE PADS CF

Notes

Details

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

Related Items

Design Forms and Documentation

COMP 700-050-04: Volume Measure Items and Continuation

Construction Forms and Documentation

700-050-56: Daily Log Sheet Miscellaneous Tabulation Form Site Source Record

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

References

PPM Chapter

Trns-port

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.

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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>
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<tbody>
<tr>
<td>0400147</td>
<td>COMPOSITE NEOPRENE PADS</td>
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<td>1/1/2010</td>
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</table>

**400-150- CLEANING AND SEALING EXISTING CONCRETE SURFACES**

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>SF; M2</td>
<td>Square Foot; 1/10 Square Meter</td>
<td>yes</td>
</tr>
</tbody>
</table>

**Notes**

FOR MAINTENANCE ACTIVITIES ONLY; do not use for new construction.

Intended for the cleaning and sealing/staining/coating of existing concrete surfaces. Specs should detail the materials and application instructions/rates, as needed.

**Related Items**

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

**Design Forms and Documentation**

sumqr: Roadway Summary of Quantities Sheet

Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book

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

**References**

PPM Chapter

Trns-port

Other Standards

Specifications Section 400

T: Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

**Struct. 400-150- CLEANING AND SEALING EXISTING CONCRETE SURFACES**

**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>
</tr>
</thead>
<tbody>
<tr>
<td>0400150</td>
<td>CLEANING AND SEALING EXISTING CONCRETE SURFACE</td>
<td>SF</td>
<td>T</td>
<td>1/1/2012</td>
<td></td>
</tr>
</tbody>
</table>

**400-153- NON SHRINK GROUT- MISCELLANEOUS**

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>CF; M3</td>
<td>1/10 Cubic Foot; 1/100 Cubic Meter</td>
<td>no</td>
</tr>
</tbody>
</table>

**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.

### Required

**Design Forms and Documentation**

COMP 700-050-04: Volume Measure Items and Continuation

Locate in the plans. Summarize quantities by location in the computation book.

### Recommended

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book

Record final quantity on the computation book form.

---

**References**

PPM Chapter

Trns-port

Other Standards Specifications

T: Plan Details and/or Technical Specifications required

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

---

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

0100 Structures

---

**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>
</tr>
</thead>
<tbody>
<tr>
<td>0400153</td>
<td>NON SHRINK GROUT, F&amp;I, MISCELLANEOUS- STRUCTURES REHAB</td>
<td>CF</td>
<td>T</td>
<td>1/1/2010</td>
<td></td>
</tr>
</tbody>
</table>

---

**401-70- A**

**RESTORE SPALLED AREAS**

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CF; M3</td>
<td>1/10 Cubic Foot; 1/100 Cubic Meter</td>
<td>no</td>
<td>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. MATERIAL REQUIREMENTS NEEDED in the Technical Special Provisions. 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**

**Required**

**Design Forms and Documentation**

COMP 700-050-04: Volume Measure Items and Continuation

Locate in the plans. Summarize quantities by location in the computation book.

---

**Recommended**

---

---

Details and Structure: Items 000 to 1999
**Construction Forms and Documentation**

No additional form required; use plans summary or comp book

Record final quantity on the computation book form.

**References**

PPM Chapter

Trns-port

Other

Standards

Specifications

T: Plan Details and/or Technical Specifications required

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

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

**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>
</tr>
</thead>
<tbody>
<tr>
<td>0401 70</td>
<td>RESTORE SPALLED AREAS, GUNITE</td>
<td>CF</td>
<td>T</td>
<td>1/1/2010</td>
<td></td>
</tr>
<tr>
<td>0401 70 1</td>
<td>RESTORE SPALLED AREAS, EPOXY</td>
<td>CF</td>
<td>T</td>
<td>1/1/2010</td>
<td></td>
</tr>
<tr>
<td>0401 70 2</td>
<td>RESTORE SPALLED AREAS, LATEX MODIFIED MORTAR- STYRENE BUTADIENE</td>
<td>CF</td>
<td>T</td>
<td>1/1/2010</td>
<td></td>
</tr>
<tr>
<td>0401 70 3</td>
<td>RESTORE SPALLED AREAS, LATEX MODIFIED MORTAR- ACRYLIC</td>
<td>CF</td>
<td>T</td>
<td>1/1/2010</td>
<td></td>
</tr>
<tr>
<td>0401 70 4</td>
<td>RESTORE SPALLED AREAS, PORTLAND CEMENT GROUT</td>
<td>CF</td>
<td>T</td>
<td>1/1/2010</td>
<td></td>
</tr>
<tr>
<td>0401 70 5</td>
<td>RESTORE SPALLED AREAS, CONTRACTORS OPTION</td>
<td>CF</td>
<td>T</td>
<td>1/1/2010</td>
<td></td>
</tr>
<tr>
<td>0401 70 6</td>
<td>SPALLED AREAS RESTORE, THERMOSETTING POLYMER CONC</td>
<td>CF</td>
<td>T</td>
<td>1/1/2010</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>405- 70- A</th>
<th>LATEX MODIFIED PORTLAND CEMENT CONCRETE</th>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CF; M3</td>
<td>1/10 Cubic Foot; 1/100 Cubic Meter</td>
<td>no</td>
<td></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

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

### Design Forms and Documentation

- **COMP 700-050-07: Concrete & Reinforcing Steel Comp & Cont.**
  - Locate in the plans. Summarize quantities by location in the computation book.

### Construction Forms and Documentation

- No additional form required; use plans summary or comp book

### Notes

- **T:** Plan Details and/or Technical Specifications required

### References

- PPM Chapter
- Trns-port
- Other
- Standards
- Specifications

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

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

- 0100 Structures

### Struct. 405-70- A

<table>
<thead>
<tr>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>LATEX MODIFIED PORTLAND CEMENT CONCRETE, TYPE I</td>
<td>CF</td>
<td>T</td>
<td>1/1/2010</td>
<td></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.

### Item Description

- **0405 70 1** LATEX MODIFIED PORTLAND CEMENT CONCRETE, TYPE I
- **0405 70 2** LATEX MODIFIED PORTLAND CEMENT CONCRETE, TYPE III

### Details

- Per specifications, 3 sided box culverts 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>
</table>

### Design Forms and Documentation

- sumdrd.dgn: Summary of Drainage Structures
  - Locate in plans. Summarize quantities by location on summary sheet in the plans.
Struct. 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)

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>
</tr>
</thead>
<tbody>
<tr>
<td>0407 1 21</td>
<td>PRECAST CONCRETE 3 SIDE BOX CULVERT, 20-29' SPAN, &lt; OR = 10' HEIGHT</td>
<td>LF</td>
<td>1/1/2010</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

411-1- EPOXY MATERIAL FOR CRACK INJECTION

Notes

Details

Items 411-1 and 411-2 are for separate payment of materials and labor for Epoxy Injection of cracks in existing concrete surfaces, in accordance with specification Section 411.

Related Items

Required

Recommended

Design Forms and Documentation

COMP 700-050-04: Volume Measure Items and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation

No additional form required; use plans summary or comp book

References

PPM Chapter
Trns-port
Other Standards
Specifications  Section 411

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Struct.  411-1-  EPOXY MATERIAL FOR CRACK INJECTION  GA

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>
</tr>
</thead>
<tbody>
<tr>
<td>0411 1</td>
<td>EPOXY MATERIAL FOR CRACK INJECTION-STRUCTURES REHAB</td>
<td>GA</td>
<td></td>
<td>1/1/2010</td>
<td></td>
</tr>
</tbody>
</table>

411-2-  INJECT AND SEAL CRACK

Unit  LF; M1  Accuracy  Linear Foot; 1/10 Meter  PlanQuantity?  no

Notes

Details

Related Items

Required  Recommended

Design Forms and Documentation

COMP 700-050-09: Linear Measure Comp with Components and Cont., or COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation

Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation

No additional form required; use plans summary or comp book

References  PPM Chapter  Trns-port  Other Standards  Specifications  Section 411

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Struct.  411-2-  INJECT AND SEAL CRACK  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>
</tr>
</thead>
<tbody>
<tr>
<td>0411 2</td>
<td>CRACKS INJECT &amp; SEAL- STRUCTURES REHAB</td>
<td>LF</td>
<td></td>
<td>1/1/2010</td>
<td></td>
</tr>
</tbody>
</table>

413-149-  PENETRANT SEALER

Unit  GA; LI  Accuracy  Gallon; Liter  PlanQuantity?  no
NO SEPARATE PAYMENT FOR NEW, PRECAST ITEMS. 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**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>413-154</td>
<td></td>
</tr>
</tbody>
</table>

**Design Forms and Documentation**

COMP 700-050-04: Volume Measure Items and Continuation

Locate in the plans. Summarize quantities by location in the computation book.

**Construction Forms and Documentation**

700-050-56: Daily Log Sheet Miscellaneous Tabulation Form Site Source Record

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

**References**

PPM Chapter

Trns-port

Other Standards

Specifications Section 413

Prep & Doc Manual Chapter(s)

**TRNS*PORT Category (DRAFT FIELD):** 100 or 200 Structures or Roadway

**Struct.** 413-149- PENETRANT SEALER GA

**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>
</tr>
</thead>
<tbody>
<tr>
<td>0413149</td>
<td>PENETRANT SEALER GA</td>
<td>GA</td>
<td></td>
<td>1/1/2010</td>
<td></td>
</tr>
</tbody>
</table>

**413-151- METHACRYLATE MONOMER**

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>GA; LI</td>
<td>Gallon; Liter</td>
<td>no</td>
</tr>
</tbody>
</table>

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**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>413-154</td>
<td></td>
</tr>
</tbody>
</table>

**Design Forms and Documentation**

COMP 700-050-04: Volume Measure Items and Continuation

Locate in the plans. Summarize quantities by location in the computation book.

**Construction Forms and Documentation**

700-050-56: Daily Log Sheet Miscellaneous Tabulation Form Site Source Record

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

**References**

PPM Chapter

Trns-port
### Other

#### Standards

#### Specifications  Section 413

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

**TRNS*PORT Category (DRAFT FIELD):** 100 or 200 Structures or Roadway

**Struct.**  413-151- METHACRYLATE MONOMER GA

**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>
</tr>
</thead>
<tbody>
<tr>
<td>0413151</td>
<td>METHACRYLATE MONOMER</td>
<td>GA</td>
<td></td>
<td>1/1/2010</td>
<td></td>
</tr>
</tbody>
</table>

**413-154-** CLEANING AND SEALING CONCRETE SURFACES: PENETRANT SEALER OR METHACRYLATES

**Unit** SF; M2  **Accuracy** Square Foot; 1/10 Square Meter  **PlanQuantity?** no

**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

**Design Forms and Documentation**

COMP 700-050-01: Area Computation and Continuation

Locate in the plans. Summarize quantities by location in the computation book.

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book

Record final quantity on the computation book form.

**References**

PPM Chapter

Trns-port

Other

Standards

Specifications  Section 413

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.
**415- 1- A**  
**REINFORCING STEEL**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>0413154</td>
<td>CLEANING &amp; SEALING CONCRETE SURFACES - PENETRANT SEALER OR METHACRYLATES</td>
<td>SF</td>
<td>1/1/2010</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Notes**

- 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).

- Misc Reinforcing Steel: Used per Index 289, 291, 2-2

**Related Items**

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

**Design Forms and Documentation**

- COMP 700-050-07: Concrete & Reinforcing Steel Comp & Cont.
- Locate in the plans. Summarize quantities by location in the computation book.

**Construction Forms and Documentation**

- No additional form required; use plans summary or comp book
- Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**

- PPM Chapter
- Trns-port
- Other Standards
  - ENDWALLS: Index No. 295
  - MISC: Index No. 280 for guard at pipe end
  - STEPS: Index No. 521

- Specifications Section 415

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

**TRNS*PORT Category (DRAFT FIELD):** 100 or 200 Structures or Roadway

**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) valid through 12-31-2010; replaced by A=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>
</tr>
</thead>
<tbody>
<tr>
<td>0415 1</td>
<td>REINF STEEL- ROADWAY</td>
<td>LB</td>
<td></td>
<td>1/1/2010</td>
<td></td>
</tr>
<tr>
<td>0415 1 3</td>
<td>REINFORCING STEEL- RETAINING WALL</td>
<td>LB</td>
<td></td>
<td>1/1/2010</td>
<td></td>
</tr>
<tr>
<td>0415 1 4</td>
<td>REINFORCING STEEL- SUPERSTRUCTURE</td>
<td>LB</td>
<td></td>
<td>1/1/2010</td>
<td></td>
</tr>
<tr>
<td>0415 1 5</td>
<td>REINFORCING STEEL- SUBSTRUCTURE</td>
<td>LB</td>
<td></td>
<td>1/1/2010</td>
<td></td>
</tr>
<tr>
<td>0415 1 6</td>
<td>REINFORCING STEEL- MISCELLANEOUS</td>
<td>LB</td>
<td></td>
<td>1/1/2010</td>
<td></td>
</tr>
<tr>
<td>0415 1 8</td>
<td>REINFORCING STEEL- BULKHEAD</td>
<td>LB</td>
<td></td>
<td>1/1/2010</td>
<td></td>
</tr>
<tr>
<td>0415 1 9</td>
<td>REINFORCING STEEL- APPROACH SLABS</td>
<td>LB</td>
<td></td>
<td>1/1/2010</td>
<td></td>
</tr>
</tbody>
</table>

**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. 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**

**Required**  
**Recommended**

**Design Forms and Documentation**

COMP 700-050-07: Concrete & Reinforcing Steel Comp & Cont.

Locate in the plans. Summarize quantities by location in the computation book.

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book

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

**References**

PPM Chapter  
Trns-port  
Other Standards  
Specifications

T: Plan Details and/or Technical Specifications 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  
LB

A =  
6 (Miscellaneous)

**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>
</tr>
</thead>
<tbody>
<tr>
<td>0415 2 6</td>
<td>REINF STEEL- STAINLESS, MISCELLANEOUS</td>
<td>LB</td>
<td>T</td>
<td>1/1/2010</td>
<td></td>
</tr>
</tbody>
</table>

Details and Structure: Items 000 to 1999
INLETS

Unit: EA  Accuracy: Each  Plan Quantity: no

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.

Median Barrier Inlet descriptions, from Index 217:
Type 1 Single throat, one side of barrier wall.
Type 2 Double throats, one side of barrier wall.
Type 3 Two single throats, opposite side of Wall.
Type 4 Two double throats, opposite sides of barrier wall.
Type 5 Double throats, one side of barrier wall, and single throat other side of barrier wall.

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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Design Forms and Documentation

- sumdrd.dgn: Summary of Drainage Structures
  - Locate in plans. Summarize quantities by location on summary sheet in the plans.

Construction Forms and Documentation

- No additional form required; use plans summary or comp book
  - Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

- PPM Chapter
- Trnsport
- Other

Standards


Specifications

Section 425

T: Selected Items may require Plan Details and/or Technical Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Struct. 425-1-AAB INLETS EA

AA = Inlet Type
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 (Ditch Bottom Type A)
51 (Ditch Bottom Type B)
52 (Ditch Bottom Type C)
53 (Ditch Bottom Type C Mod) B not 9
54 (Ditch Bottom Type D)
55 (Ditch Bottom Type E)
56 (Ditch Bottom Type F)
57 (Ditch Bottom Type G)
58 (Ditch Bottom Type H)
59 (Ditch Bottom Type I)
60 (Ditch Bottom Type J)
61 (Ditch Bottom 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 = Inlet depth/height
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

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>0425</td>
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<tr>
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<td>INLETS, BARRIER WALL, PARTIAL</td>
<td>EA</td>
<td>1/1/2010</td>
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<td></td>
</tr>
</tbody>
</table>
The designer should consider calling for a ring and cover where routine cleanout and inspection is anticipated, such as a French Drain.

Per Index 201, the height used to determine if a drainage structure is greater than 10 feet shall be computed using:

a) the elevation of the top of the manhole lid, b) the grate elevation or the theoretical gutter grade elevation of an inlet, or c) the outside top elevation of a junction box less the flow line elevation of the lowest pipe or to top of sump floor.

### Related Items

**Required**

**Recommended**

### Design Forms and Documentation

- sumdrd.dgn: Summary of Drainage Structures
- Locate in plans. Summarize quantities by location on summary sheet in the plans.

### Construction Forms and Documentation

- No additional form required; use plans summary or comp book
- Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References

- PPM Chapter
- Trns-port
- Other Standards
- Index No. 200, 201
- Specifications
- Section 425
- 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.

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<th>Item</th>
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<td>MANHOLES, P-7, &lt;10'</td>
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<td></td>
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<tr>
<td>0425 242</td>
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<td>1/1/2010</td>
<td></td>
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<tr>
<td>0425 243</td>
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<tr>
<td>0425 261</td>
<td>MANHOLES, P-8, &lt;10'</td>
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<td></td>
<td>1/1/2010</td>
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<tr>
<td>0425 262</td>
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<tr>
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<tr>
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<tr>
<td>0425 292</td>
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<tr>
<td>0425 293</td>
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<tr>
<td>0425 2101</td>
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<tr>
<td>0425 2102</td>
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<tr>
<td>0425 2110</td>
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Other
Standards  Index No. 200, 201
Specifications  Section 425

T: Selected Items may require Plan Details and/or Technical Specifications

Prep & Doc Manual Chapter(s)  7, 13

TRNS*PORT Category (DRAFT FIELD):  0200  Roadway

Struct.  425- 3-AAB  JUNCTION BOX (DRAINAGE)  EA

AA =
4 (P-7)
6 (J-7)
5 (Repair) B=0
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>
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<th>Valid Date</th>
<th>Obsolete Date</th>
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<tr>
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<tr>
<td>0425 3 42</td>
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<tr>
<td>0425 3 43</td>
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<tr>
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<tr>
<td>0425 3 63</td>
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<tr>
<td>0425 3 81</td>
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<tr>
<td>0425 3 82</td>
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<tr>
<td>0425 3 83</td>
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<tr>
<td>0425 3 91</td>
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</tr>
<tr>
<td>0425 3 92</td>
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<td></td>
<td>1/1/2010</td>
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</tr>
</tbody>
</table>

425- 4-  INLET- ADJUST

Notes

Details
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
Required  Recommended
### Design Forms and Documentation
- sumdrd.dgn: Summary of Drainage Structures
  - Locate in plans. Summarize quantities by location on summary sheet in the plans.

### Construction Forms and Documentation
- No additional form required; use plans summary or comp book
  - Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References
- PPM Chapter
- Trns-port
- Other
  - Standards: Index No. 200, 201, 210
- Specifications: Section 425
- Prep & Doc Manual Chapter(s): 7, 13

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

### 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.

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<th>Item</th>
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<th>Obsolete Date</th>
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<tbody>
<tr>
<td>0425</td>
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<td>EA</td>
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<td>1/1/2010</td>
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</table>

### 425- 5- A MANHOLES- ADJUST

<table>
<thead>
<tr>
<th>Notes</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Consists of changing the vertical placement of an existing manhole so that it will conform to the finished grade as designated in the plans.</td>
</tr>
<tr>
<td></td>
<td>Note: When lowering/raising manholes for milling, payment is per manhole. Do not double manhole quantity for each activity.</td>
</tr>
</tbody>
</table>

### Design Forms and Documentation
- sumdrd.dgn: Summary of Drainage Structures
  - Locate in plans. Summarize quantities by location on summary sheet in the plans.

### Construction Forms and Documentation
- No additional form required; use plans summary or comp book
  - Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References
- PPM Chapter
- Trns-port
- Other
  - Standards: Index No. 200, 201
- Specifications: Section 425
- Prep & Doc Manual Chapter(s): 7, 13

---

Details and Structure: Items 000 to 1999
### Struct. 425-5- A MANHOLES- ADJUST

**A =**
- Blank (Standard)
- 1 (Utilities)

#### 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>0425 5</td>
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<td>EA</td>
<td></td>
<td>1/1/2010</td>
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<tr>
<td>0425 5 1</td>
<td>MANHOLE, ADJUST, UTILITIES</td>
<td>EA</td>
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<td>1/1/2010</td>
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</table>

---

#### Struct. 425-6- VALVE BOX- ADJUST

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

#### Details

**Related Items**

**Required**

- sumdrd.dgn: Summary of Drainage Structures

**Recommended**

- Locate in plans. Summarize quantities by location on summary sheet in the plans.

---

#### References

**PPM Chapter**

- Trns-port
- Other Standards

**Specifications**

- Section 425

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

- 7, 13

---

#### Struct. 425-8- DRAINAGE STRUCTURES, MISCELLANEOUS- ADJUST

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

---

**Details and Structure: Items 000 to 1999**
**Related Items**

<table>
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<tr>
<th>Required</th>
<th>Recommended</th>
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<tr>
<td>sumdrd.dgn: Summary of Drainage Structures</td>
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</tr>
<tr>
<td>Locate in plans. Summarize quantities by location on summary sheet in the plans.</td>
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<tr>
<td><strong>Construction Forms and Documentation</strong></td>
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<tr>
<td>No additional form required; use plans summary or comp book</td>
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</tr>
<tr>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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**References**

- PPM Chapter
- Trns-port
- Other Standards
- Specifications Section 425
- Prep & Doc Manual Chapter(s) 7, 13

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

---

### 425-8-

**DRAINAGE STRUCTURES, MISCELLANEOUS- 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>
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<th>Valid Date</th>
<th>Obsolete Date</th>
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<tr>
<td>0425 8</td>
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</table>

### 425-10-

**YARD DRAIN**

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<th>Unit</th>
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<tr>
<td>EA</td>
<td>Each</td>
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**Notes**

Details For use outside of the R/W. Refer to Design Standard for details.

**Related Items**

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<td>Locate in plans. Summarize quantities by location on summary sheet in the plans.</td>
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<td><strong>Construction Forms and Documentation</strong></td>
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<tr>
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<tr>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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**References**

- PPM Chapter
- Trns-port
- Other Standards
- Specifications Section 425
- Prep & Doc Manual Chapter(s) 7, 13

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

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**425-11** - DRAINAGE STRUCTURE- MODIFY EXISTING

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

**Notes**

**Related Items**

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<th>Recommended</th>
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<td>Locate in plans. Summarize quantities by location on summary sheet in the plans.</td>
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**Construction Forms and Documentation**

| No additional form required; use plans summary or comp book |
| Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

**References**

- PPM Chapter
- Trns-port
- Other Standards
- Specifications

_T: Plan Details and/or Technical Specifications required_

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

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

### Struct. 425-11 - DRAINAGE STRUCTURE- MODIFY EXISTING EA

**Notes**

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</tr>
</tbody>
</table>

**425-71** - INLETS RELOCATION

**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**

<table>
<thead>
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<th>Required</th>
<th>Recommended</th>
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Details and Structure: Items 000 to 1999
**Design Forms and Documentation**

sumdrd.dgn: Summary of Drainage Structures

Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book

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

**References**

PPM Chapter

Trns-port

Other Standards Specifications

*T: Plan Details and/or Technical Specifications required*

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

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Struct. 425-71- INLETS RELOCATION 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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<th>Item</th>
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<tr>
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<td>1/1/2010</td>
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</tr>
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</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.

**Related Items**

Required

Recommended

**Design Forms and Documentation**

sumdrd.dgn: Summary of Drainage Structures

Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book

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

**References**

PPM Chapter

Trns-port

Other Standards Specifications

*T: Plan Details and/or Technical Specifications required*

**Prep & Doc Manual Chapter(s)** 7, 13
**TRNS*PORT Category (DRAFT FIELD):** 0200  Roadway

**Struct. 425-74- A**  MANHOLES AND INLETS, CLEANING & SEALING  EA

\[ A = \]
\[ 1 (<10') \]
\[ 2 (>10') \]

**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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<td>0425 74 1</td>
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425-78- INLET CAP, PRECAST

**Notes**

**Details**

**Related Items**

Required  Recommended

**Design Forms and Documentation**

sumdrd.dgn: Summary of Drainage Structures
Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter
Trn*port
Other Standards  Index No. 200, 201, 280
Specifications

T: Plan Details and/or Technical Specifications required

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

TRNS*PORT Category (DRAFT FIELD): 0200  Roadway

**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.

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425-82- REPLACE GRATE

Details and Structure: Items 000 to 1999
Unit EA Accuracy Each PlanQuantity? no

Notes
Details Payment includes "…new grates, and removing and stockpiling existing grates", per specification.

Related Items Required Recommended

Design Forms and Documentation

Special Provision available

Related Items Required Recommended

Construction Forms and Documentation

Related Items Required Recommended

References PPM Chapter

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

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Struct. 425-82 REPLACE GRATE 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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430-94- AA DESILT PIPE

Notes

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 Required Recommended

Design Forms and Documentation

Locate in plans. Summarize quantities by location on summary sheet in the plans.

Construction Forms and Documentation

No additional form required; use plans summary or comp book

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

References PPM Chapter

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

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Struct. 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.

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430-17A-BCC PIPE CULVERT OPTIONAL MATERIAL

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Notes

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.

Required

Recommended

Design Forms and Documentation
dromrd: Drainage Optional Materials Tabulation
Locate in plans. Summarize quantities by location on summary sheet in the plans.

Construction Forms and Documentation
No additional form required; use plans summary or comp book
Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References
PPM Chapter
Trns-port
Other Drainage Manual
Standards Index No. 205
Specifications Section 430
Struct.  430-17A-BCC PIPE CULVERT OPTIONAL MATERIAL LF

A = Application
3 (Gutter Drain) GD
4 (Side Drain) SD
5 (Storm and Cross Drain)

B = Shape
1 (Round Shape)
2 (Other –Elliptical/Arch)

CC= Standard Pipe Sizes, valid through 12-31-2010
01 (up to 24")
02 (25 to 36")
03 (37 to 48")
04 (49 to 60")
05 (61" or greater)

CC = Standard Pipe Sizes, available for projects let 7-1-10; required Effective 1-1-2011
12 (12")
15 (15")
18 (18")
24 (24")
30 (30")
36 (36")
42 (42")
48 (48")
54 (54")
60 (60")
66 (66")
72 (72")
78 (78")
84 (84")
90 (90")
96 (96")
99 (99" or greater) Note size in plans

Notes

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Details and Structure: Items 000 to 1999
Notes
Details
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 Forms and Documentation
SBSDMES or SBSDMESFL: Summary of Side Drain & Mitered End Sections
Locate in plans. Summarize quantities by location on summary sheet in the plans.

Construction Forms and Documentation
No additional form required; use plans summary or comp book
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References
PPM Chapter
Trns-port
Other Standards
Index No. 270
Specifications
Section 430
Prep & Doc Manual Chapter(s)
7, 13

TRNS*PORT Category (DRAFT FIELD):
0200 Roadway

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.

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### 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.

### Design Forms and Documentation

SBSDMES or SBSDMESFL: Summary of Side Drain & Mitered End Sections
Locate in plans. Summarize quantities by location on summary sheet in the plans.

### Construction Forms and Documentation

No additional form required; use plans summary or comp book
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References

PPM Chapter
Trns-port
Other Standards
Index No. 260, 261
Specifications
Section 430
Prep & Doc Manual Chapter(s)
7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway
3 (1:2)

DD = Standard Pipe Sizes
23 (15")
25 (18")
29 (24")
33 (30")

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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### 430-82A- BB  CLEANING & SEALING EXISTING PIPE JOINT

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<th>Each</th>
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#### 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**

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<th>Design Forms and Documentation</th>
<th>dromrd: Drainage Optional Materials Tabulation</th>
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<td>Construction Forms and Documentation</td>
<td>Locate in plans. Summarize quantities by location on summary sheet in the plans.</td>
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**Recommended**

No additional form required; use plans summary or comp book

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

#### References

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<th>PPM Chapter</th>
<th>Trns-port</th>
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**Specifications**

T: Plan Details and/or Technical Specifications required

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

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

| 0200 Roadway |

### Struct.

**430-82A- BB  CLEANING & SEALING EXISTING PIPE JOINT**

| EA |

A =
1 (Storm Sewer)
2 (Cross Drain)

BB = Standard Pipe Sizes
23 (15")
25 (18")
27 (21")
29 (24")
31 (27")
33 (30")
34
38 (36")
40 (42")
41 (48")
42 (54")
43 (60")
61 (61" and 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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### 430-830- PIPE FILLING AND PLUGGING- PLACE OUT OF SERVICE

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#### Notes

This pay item is used for filling/plugging existing drainage pipe, where called for in the plans. Per the specifications, "The cost of filling and plugging pipe shown in the plans as existing, to be placed out of service"

This pay item may also be used for filling/plugging drainage structures associated with placing drainage pipe out of service, when it is not practical to remove the drainage structure. Tabulate quantities in the plans.

Temporary Plugging: "The cost of plugging pipe, shown in the plans as proposed new pipe, will be included in the contract unit price for pipe culvert." (Do not use this pay item for temporarily plugging new pipe.)