
ORIGINATION FORM

Proposed Revisions to a Standard Plans Index
(Please provide all information — Incomplete forms will be returned)

Contact Information:

Date: June 22, 2021
Originator: Richard Stepp
Phone: (850) 414-4313
Email: richard.stepp@dot.state.fl.us

Standard Plans:

Index Number: 521-650
Sheet Number (s): 1
Index Title: Light Pole Pedestal - Wall Coping

Summary of the changes:

Sheet 1, Note 5: Added reference to Index 630-001 (Conduit Details - Embedded) for information on embedded junction boxes and conduits.

Commentary / Background:

Added reference to provide continuity between Standards and improve understanding for designers and contractors wanting to verify that these Indexes share details. This particular topic received designer questions.

Other Affected Offices / Documents: (Provide name of person contacted)

- | Yes | No | |
|--------------------------|-------------------------------------|-----------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Other Standard Plans – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | FDOT Design Manual – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Basis of Estimates Manual – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Standard Specifications – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Approved Product List – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Construction – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Maintenance – |

Origination Package Includes:

(Email or hand deliver package to Rick Jenkins)

- | Yes | N/A | |
|-------------------------------------|-------------------------------------|--|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Redline Mark-ups |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Proposed Standard Plan Instruction (SPI) |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Revised SPI |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Other Support Documents |

Implementation:

- Design Bulletin (Interim)
- DCE Memo
- Program Mgmt. Bulletin
- FY-Standard Plans (Next Release)

Contact the Roadway Design Office for assistance in completing this form

Email to: Rick Jenkins rick.jenkins@dot.state.fl.us and Darren Martin darren.martin@dot.state.fl.us

LIGHT POLE PEDESTAL NOTES:

- ANCHOR BOLTS:**
Anchor Bolt design is based on the standard Roadway Aluminum Light Pole configurations shown on Index 715-002 with top of pedestal 75' or less above ground or MLW.
Anchor Bolt Diameter: See Table 1
- MATERIALS:**
Anchor Bolts: ASTM F1554 Grade 55.
Nuts: ASTM A563 Grade A, Heavy-Hex.
Washers: ASTM F436 Type 1.
Anchor Plate: ASTM A709 (Grade 36) or ASTM A36.
Coating: Galvanize all Nuts, Bolts Washers, and plates in accordance with ASTM F2329.
- The Contractor is responsible for ensuring the anchor bolt design is compatible with the light pole base plate. Modifications to the anchor bolt design shown must be signed and sealed by the Contractor's Specialty Engineer and submitted to the Engineer for approval prior to construction.
- Install Anchor Bolts plumb.
- For conduit, EJB and expansion/deflection fitting details, see Utility Conduit Detail Drawings and Index 630-010.
- The cost of anchor bolts, nuts, washers and anchor plates will be included in the Bid Price for Light Poles. Include the cost of all labor, concrete and reinforcing steel required for construction of the pedestals, and miscellaneous hardware required for the completion of the electrical system in the Bid Price for either the Concrete Barrier or Concrete Parapet that the pedestal is behind.
- Field Cut Bars 4M2 as required to maintain clearance.
- Slip Forming Method of construction requires the Engineer's approval within the limits shown.
- Reinforcing shown for light pole pedestals is in addition to typical reinforcing for Junction Slabs and Raised Sidewalks.
- Work this Index with the following as appropriate:
Index 521-512
Index 521-610
Index 521-620
Index 521-630
- Pedestal may be precast in one section with Coping. Minimum Precast Coping section length is 10 ft. or 12 ft. for combination Precast Concrete Barrier and Coping section.
- For Estimated Quantities, see Sheet 3.
- Unless otherwise noted, Concrete Barrier (36" Single-Slope) is shown in all Views and Sections. The Pedestal details for other Concrete Barriers or pedestrian/bicycle railings are similar.

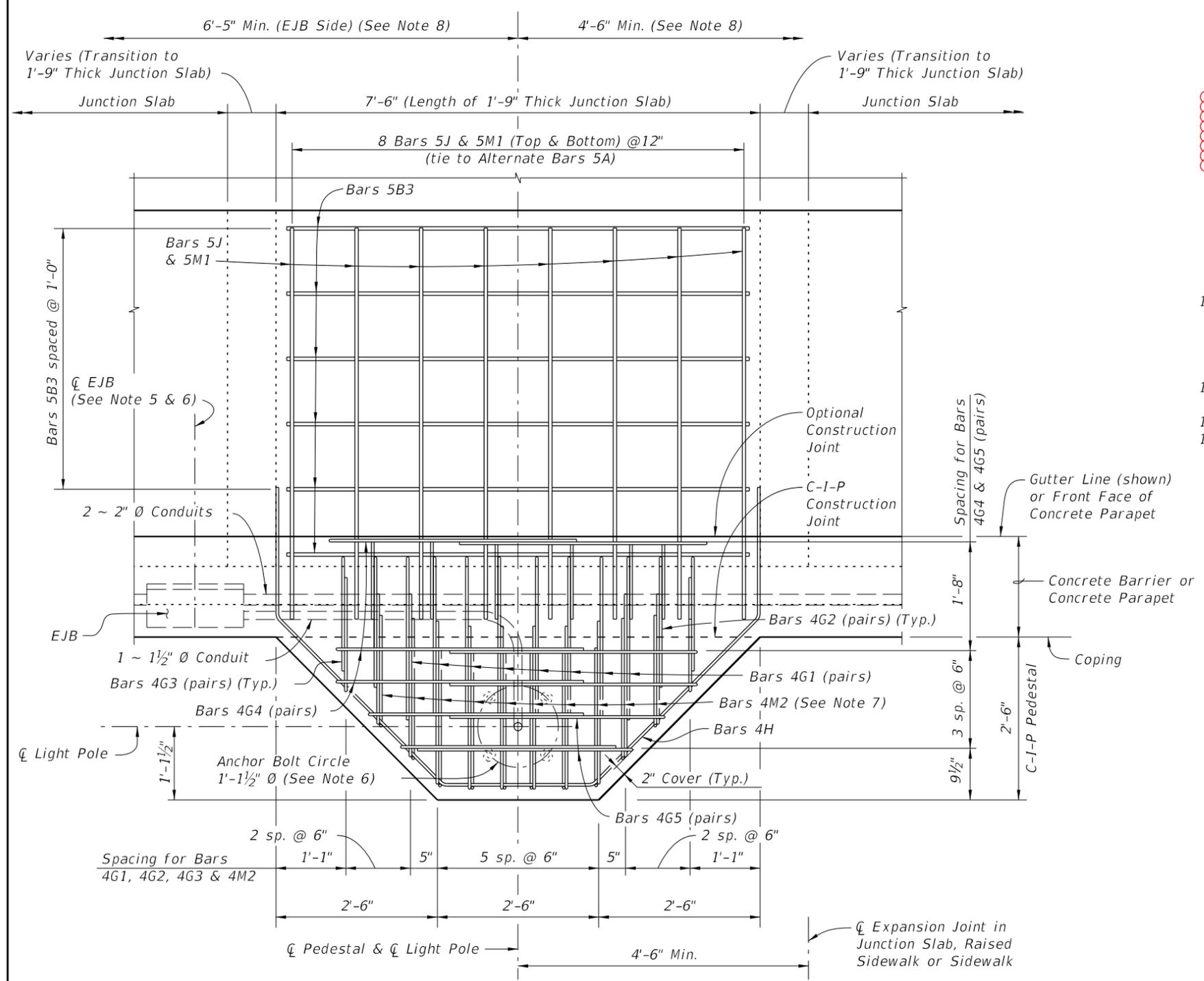


TABLE 1 DESIGN LIMITATION FOR ANCHOR BOLTS (1" Dia.)

Wind Speed (MPH)	Arm Length (FT)	BASE OF POLE HEIGHT*		
		40 ft.	45 ft.	50 ft.
120	ALL	75	75	75
140	ALL	75	75	75
160	8 & 10	75	75	45**
160	12 & 15	75	75	25*

* Above Natural Ground
** Use 1 1/4" Ø Anchor bolts for wall heights greater than the height shown and less than 75'.

10/12/2020 7:57:41 AM

LAST REVISION 11/01/17	DESCRIPTION:
---------------------------	--------------


**FY 2021-22
STANDARD PLANS**

LIGHT POLE PEDESTAL - WALL COPING

INDEX 521-650	SHEET 1 of 3
-------------------------	------------------------

LIGHT POLE PEDESTAL NOTES:

- ANCHOR BOLTS:**
Anchor Bolt design is based on the standard Roadway Aluminum Light Pole configurations shown on Index 715-002 with top of pedestal 75' or less above ground or MLW.
Anchor Bolt Diameter: See Table 1
- MATERIALS:**
Anchor Bolts: ASTM F1554 Grade 55.
Nuts: ASTM A563 Grade A, Heavy-Hex.
Washers: ASTM F436 Type 1.
Anchor Plate: ASTM A709 (Grade 36) or ASTM A36.
Coating: Galvanize all Nuts, Bolts Washers, and plates in accordance with ASTM F2329.
- The Contractor is responsible for ensuring the anchor bolt design is compatible with the light pole base plate. Modifications to the anchor bolt design shown must be signed and sealed by the Contractor's Specialty Engineer and submitted to the Engineer for approval prior to construction.
- Install Anchor Bolts plumb.
- For conduit, EJB and expansion/deflection fitting details, see Utility Conduit Detail Drawings and Index 630-010.
- The cost of anchor bolts, nuts, washers and anchor plates will be included in the Bid Price for Light Poles. Include the cost of all labor, concrete and reinforcing steel required for construction of the pedestals, and miscellaneous hardware required for the completion of the electrical system in the Bid Price for either the Concrete Barrier or Concrete Parapet that the pedestal is behind.
- Field Cut Bars 4M2 as required to maintain clearance.
- Slip Forming Method of construction requires the Engineer's approval within the limits shown.
- Reinforcing shown for light pole pedestals is in addition to typical reinforcing for Junction Slabs and Raised Sidewalks.
- Work this Index with the following as appropriate:
Index 521-512
Index 521-610
Index 521-620
Index 521-630
- Pedestal may be precast in one section with Coping. Minimum Precast Coping section length is 10 ft. or 12 ft. for combination Precast Concrete Barrier and Coping section.
- For Estimated Quantities, see Sheet 3.
- Unless otherwise noted, Concrete Barrier (36" Single-Slope) is shown in all Views and Sections. The Pedestal details for other Concrete Barriers or pedestrian/bicycle railings are similar.

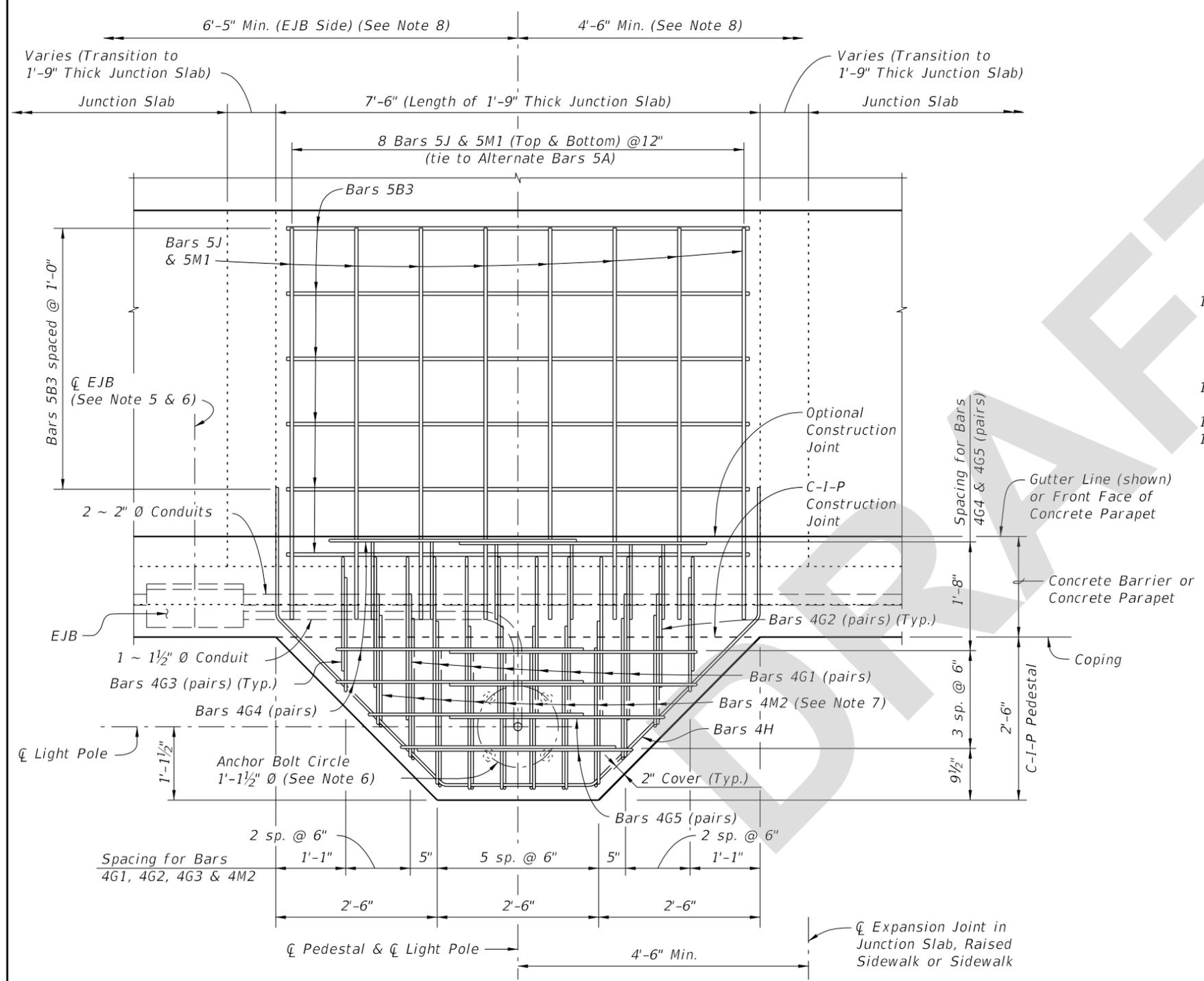


TABLE 1 DESIGN LIMITATION FOR ANCHOR BOLTS (1" Dia.)

Wind Speed (MPH)	Arm Length (FT)	BASE OF POLE HEIGHT*		
		40 ft.	45 ft.	50 ft.
120	ALL	75	75	75
140	ALL	75	75	75
160	8 & 10	75	75	45**
160	12 & 15	75	75	25*

* Above Natural Ground
** Use 1 1/4" Ø Anchor bolts for wall heights greater than the height shown and less than 75'.

SDATES

LAST REVISION 11/01/21	DESCRIPTION:
---------------------------	--------------


**FY 2022-23
STANDARD PLANS**

LIGHT POLE PEDESTAL - WALL COPING

INDEX 521-650	SHEET 1 of 3
-------------------------	------------------------