
Index 653-001 Pedestrian Control Signal Installation Details

ORIGINATION

Date: 6/18/25

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COMMENTARY

The TERL has received multiple questions from Contractors regarding clarification of grounding requirements for pedestal poles. This update is to help clarify requirements to reduce future questions. Corresponds with Specification update to 620-3.3.

COMMENTS AND RESPONSES

BLACK = Industry Review Comments **BLUE** = Standard Plans Response **GREEN** = Change Made to Index

Name: John Battle

Date: 8/6/25

COMMENT: Do you want to include a maximum distance for the pull box from the pedestal mounted signal? This may vary by maintaining agency, but I notice that some designers will put the pedestrian signal pull box 20'-30' away from the pedestrian signal pedestal.

RESPONSE: A corresponding specification update clarifies that ground rods for poles, including pedestal poles on T-bases, be no more than 36" from the pole foundation:

"Ground poles, including pedestal poles on transformer bases, to a ground rod assembly that is part of the intersection grounding network array, in a pull box, and no more than 36 inches from the pole foundation."

CHANGE MADE TO INDEX: No.

Response Date: 8/21/25

Name: Bijan Behzadi

Date: 8/6/25

COMMENT: Suggest adding a note to state " Provide separate pull boxes for high voltage cable (pedestrian signal) and low voltage cable (Detection Cable).

RESPONSE: There is a corresponding specification update in SSRBC 632-3 to remove content that led many to believe that 2 conduits between the signal and cabinet are always needed. Specific project designs may or may not require entirely separate cables due to local rules and regulations, including standard requirements and practices of local traffic engineering offices and maintaining agencies. The Plans and their use of notes, details, and the existing pay items should be done in a manner that clearly describes the required and expected outcome.

CHANGE MADE TO INDEX: No.

Response Date: 8/21/25

Name: Malcom Tomatani

Date: 8/16/25

COMMENT: For the Pedestal Mounted Signal Detail, should the ground electrode conductor be shown to terminate onto a ground lug mounted on the wall of the transformer base? Also, should the ground conductor of the pedestrian signal head from the cabinet be shown to be terminated onto the ground lug? All metal components of the system, including the pole itself, will then be bonded together to create a continuous grounding network, including the grounding wire from the pole to the ground bus inside the traffic signal cabinet.

RESPONSE: The depiction in the Index is not intended to provide the details of specific connection types and locations as this may vary. However, we do recognize the potential issue and we will add a note to Index 646-001 that states: "For pedestal mounted signals, route and terminate the grounding electrode conductor to a ground lug within the transformer base". This will have to wait until next cycle as we did not make any revisions to Index 646-001 this cycle.

The pedestrian signal is typically wired using 3 conductors (neutral, walk, don't walk). Depicting an additional bond directly between the signal and the pole ground lug is not advised.

CHANGE MADE TO INDEX: Yes.

Response Date: 8/25/25

Name: Malcom Tomatani

Date: 8/16/25

COMMENT: For the Concrete Pole Mounted Signal Detail, should the ground electrode conductor be shown embedded in the pole as shown in Index 641-010 rather than inside the pole cavity?

RESPONSE: Thank you for your comment. This will be considered for next cycle.

CHANGE MADE TO INDEX: No.

Response Date: 8/25/25

Name: Anonymous

Date: 8/16/25

COMMENT: The pull box configuration for the Pedestal Mounted Signal is shown in Standard Plans Index 646-001. I would suggest not showing it in multiple places as this could cause confusion. Also, the Electrode Wiring is shown in the void of the pole in the Concrete Pole Mounted Signal. I do not believe this is the correct way to show it.

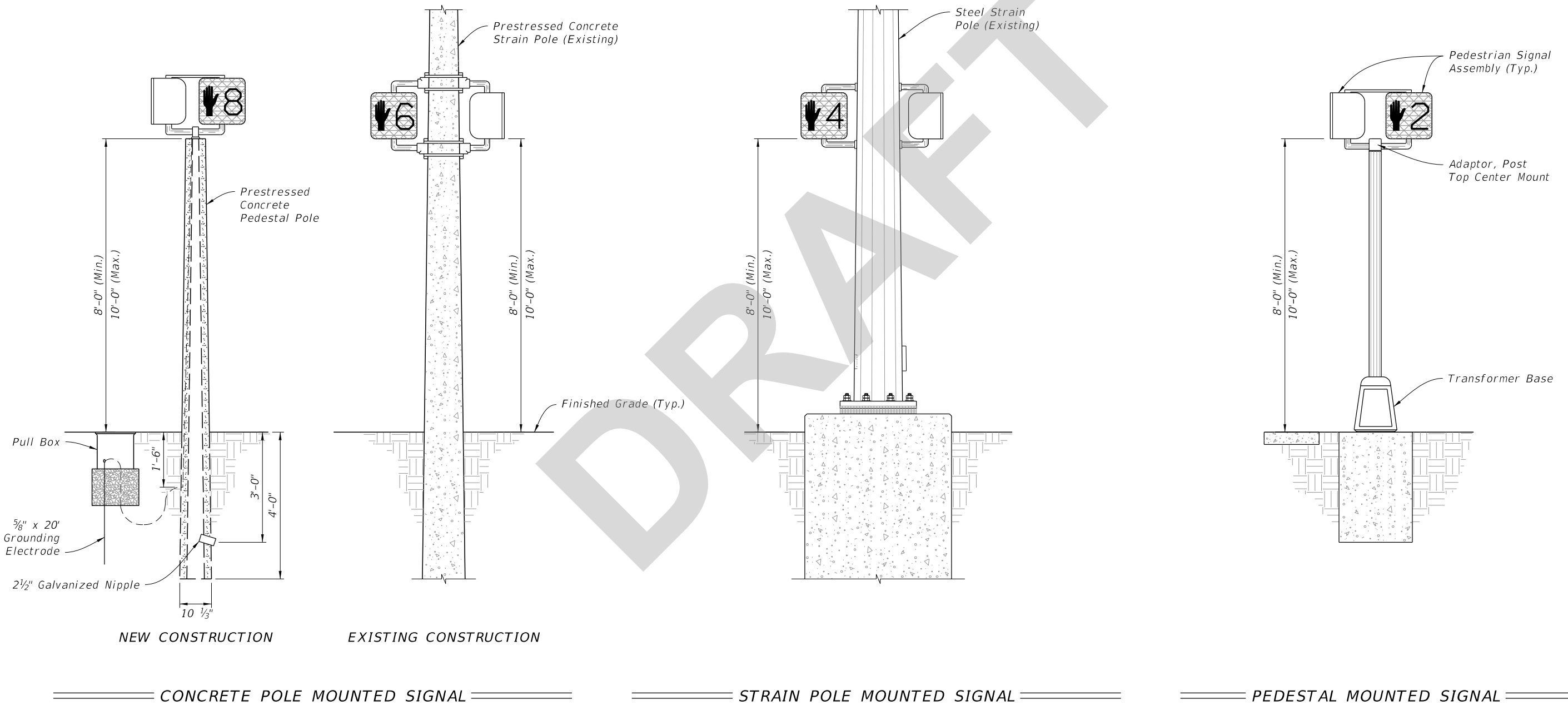
RESPONSE: Thank you for your comments. Yes I agree that most of the information is shown in Index 646-001. We will delete the newly proposed pull box detail. We will revise General Note 7 to ensure the users know to look in Index 646-001. We will also revise the Electrode Wiring in the pole.

CHANGE MADE TO INDEX: Yes.


Response Date: 8/25/25

NOTES:

1. As an option, pedestrian signals may be installed on concrete poles and pedestals using lead anchors (two bolts same size per hub) in lieu of the stainless steel bands.
2. Repair drilled or punched holes in galvanized steel poles or pedestals in accordance with Specification 562. Install grommets or bushings in each hole.
3. Meet grounding requirements of Specification 620.
4. See APL for Department-approved Pedestrian Signal Assemblies and hardware.
5. For Prestressed Concrete Poles see Index 641-010.
6. For Steel Strain Poles see Index 649-010.
7. For Pedestal Mounted Signal posts, foundations, and grounding, see Index 646-001



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9/4/2025

LAST REVISION 11/01/25	REVISION	DESCRIPTION:	 FY 2026-27 STANDARD PLANS	PEDESTRIAN CONTROL SIGNAL INSTALLATION DETAILS	INDEX 653-001	SHEET 1 of 1
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