
ORIGINATION FORM

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

Contact Information:

Date: July 5, 2023
Originator: Rick Jenkins
Phone: (850) 414-4355
Email: Rick.Jenkins@dot.state.fl.us

Standard Plans:

Index Number: 676-010
Sheet Number (s): 4 of 4
Index Title: Cabinet Installation Details

Summary of the changes:

- Sheets 1-3: Renumbered.

- Sheet 1: Deleted Existing Controller Cabinet elevation

- Sheet 2: Updated Metal Pole cabinet to ITS cabinet

- Sheet 4: New Sheet for Ground Mounted Controller Cabinet Riser

Commentary / Background:

This request came from the Districts and was coordinated with the TERL and Structures Design. Some Districts are installing these and the addition to the Standard Plans Index will allow use without a special detail in every plan set. This detail is for a concrete riser only. An associated change is being made to Specification 676 regarding this revision.

The deletion of the Existing Controller Cabinet elevation and notes was requested by the TERL due to the requirements referenced in the notes being removed and the requirements for retrofitting cabinets varying based on agency needs. They also suggested we update the ITS cabinet on Sheet 2.

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 checked="" type="checkbox"/> | <input type="checkbox"/> | Basis of Estimates Manual – Ryan Gray |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Standard Specifications – Daniel Strickland |
| <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: (Submit package to Rick Jenkins)

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

Implementation:

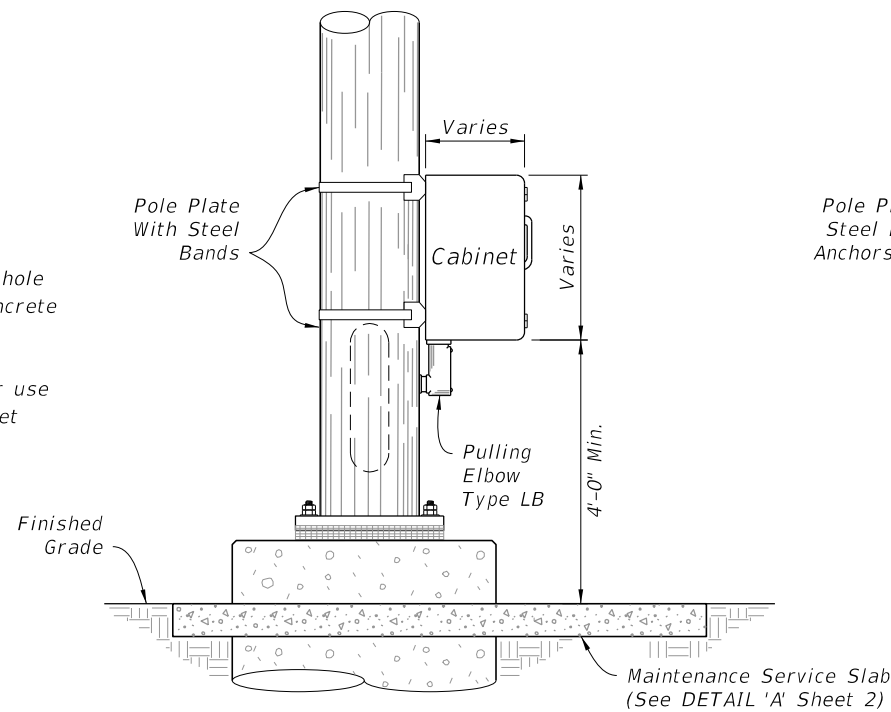
- Design Bulletin (Interim)
- DCE Memo
- Program Mgmt. Bulletin
- FY-Standard Plans (Next Release)

Contact the Roadway Design Office for assistance in completing this form

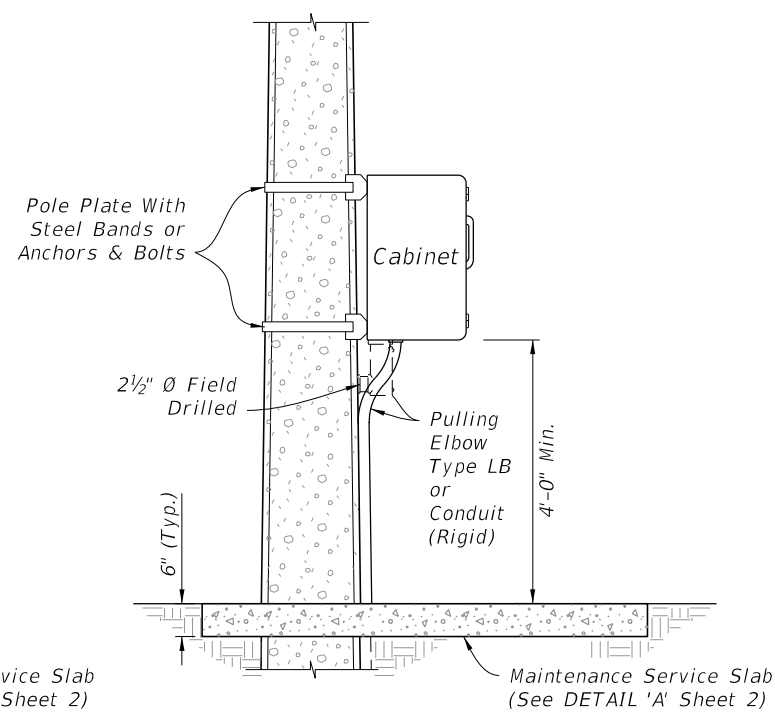
Email to: Rick Jenkins rick.jenkins@dot.state.fl.us and Darren Martin darren.martin@dot.state.fl.us

NOTES:

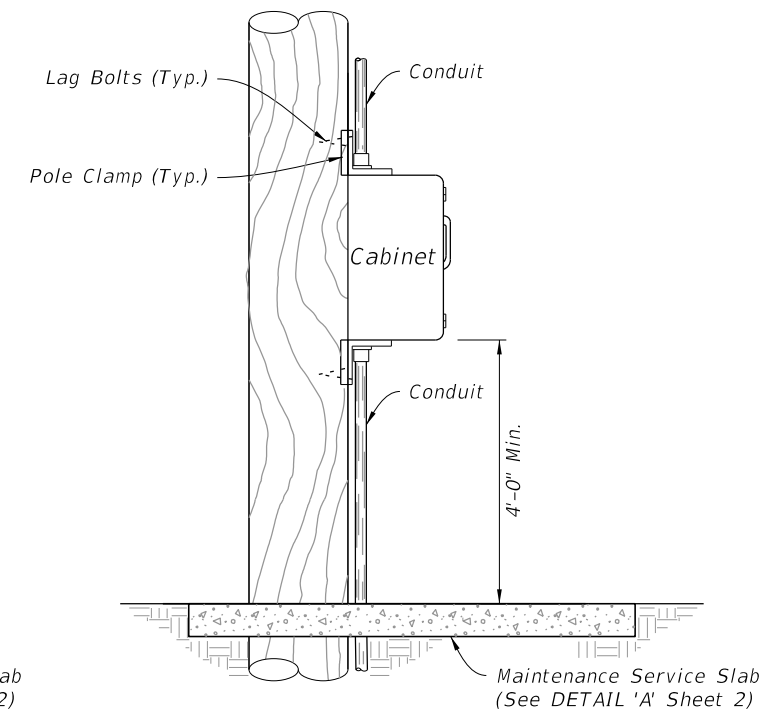
1. If cabinet mounting requires relocation of hole in concrete pole, fill existing hole with concrete or cover with a noncorrosive cover plate.
2. Liquidtight flexible conduit is approved for use from the electrical disconnect to the cabinet when both are installed on the same pole.



**SIDE ELEVATION
METAL POLE**



**SIDE ELEVATION
CONCRETE POLE**

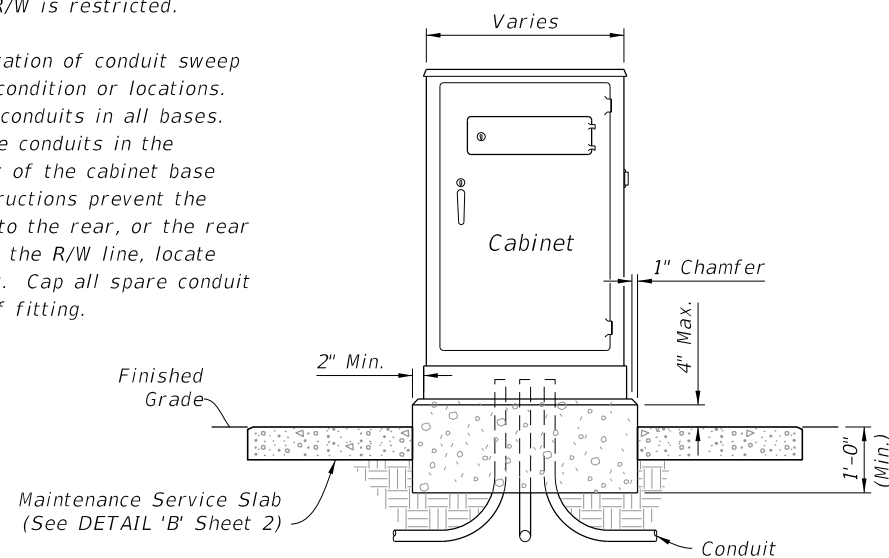


**SIDE ELEVATION
WOOD POLE**

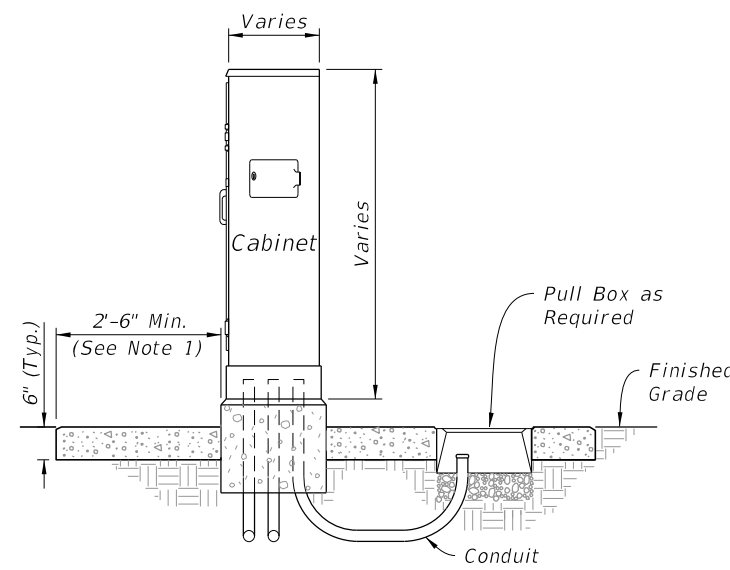
POLE MOUNTED CONTROLLER CABINET

NOTES:

1. Maintenance Service Slab: Use Class NS concrete and slope 1/4" to 1" for drainage. Not required in sidewalk, pavement areas, or where R/W is restricted.
2. The number, size and orientation of conduit sweep will vary according to site condition or locations. Provided two spare 2" PVC conduits in all bases. Place the exits of the spare conduits in the direction of the center rear of the cabinet base and into a pull box. If obstructions prevent the spare conduit from exiting to the rear, or the rear of the cabinet is located on the R/W line, locate as directed by the Engineer. Cap all spare conduit sweeps with a weatherproof fitting.



FRONT ELEVATION



SIDE ELEVATION

NEW CONTROLLER CABINET

DELETED

NOTES:

1. Retrofit existing controller cabinets in accordance with Specification 678.
2. Retrofit installation procedure for signalized intersection controller cabinet are located at: http://www.fdot.gov/Traffic/Doc_Library.shtm Generator Powered for Signalized Intersection

FRONT ELEVATION

EXISTING CONTROLLER CABINET

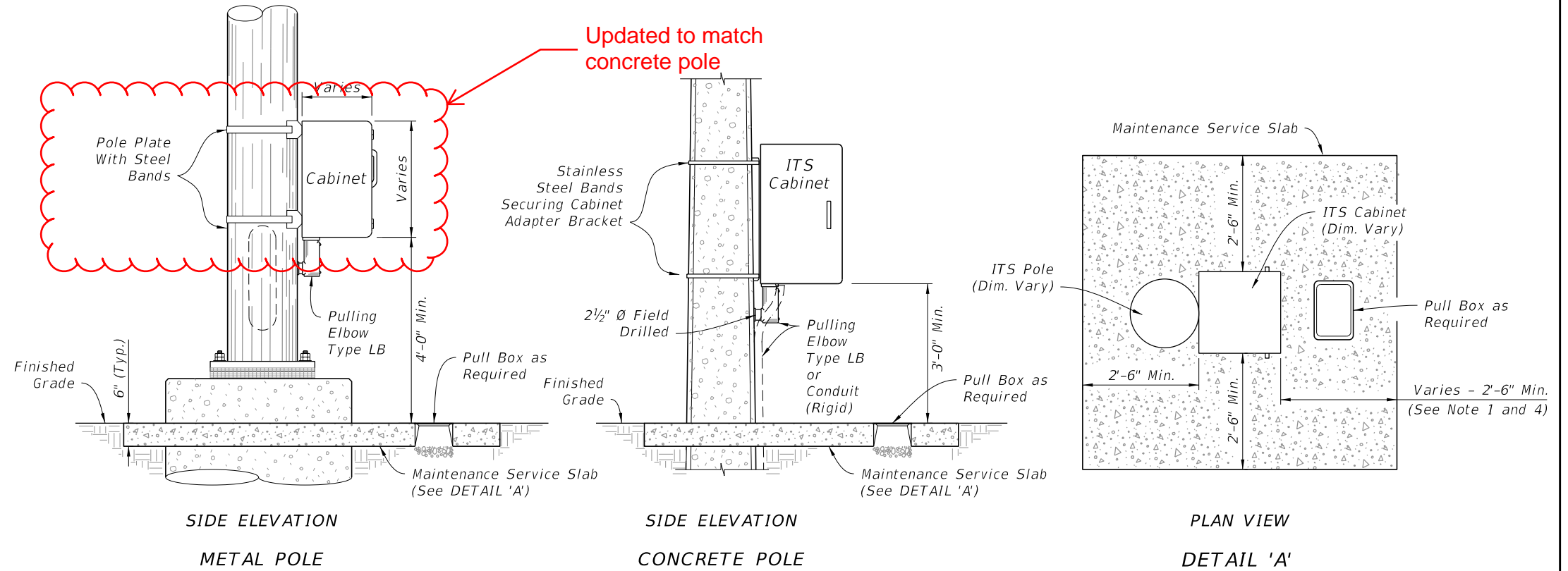
GROUND MOUNTED CONTROLLER CABINET

10/16/2022 2:34:09 PM

LAST REVISION 11/01/22	DESCRIPTION: 11/01/23	FY 2023-24 STANDARD PLANS	CABINET INSTALLATION DETAILS	INDEX 676-010	SHEET 1 of 3
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NOTES:

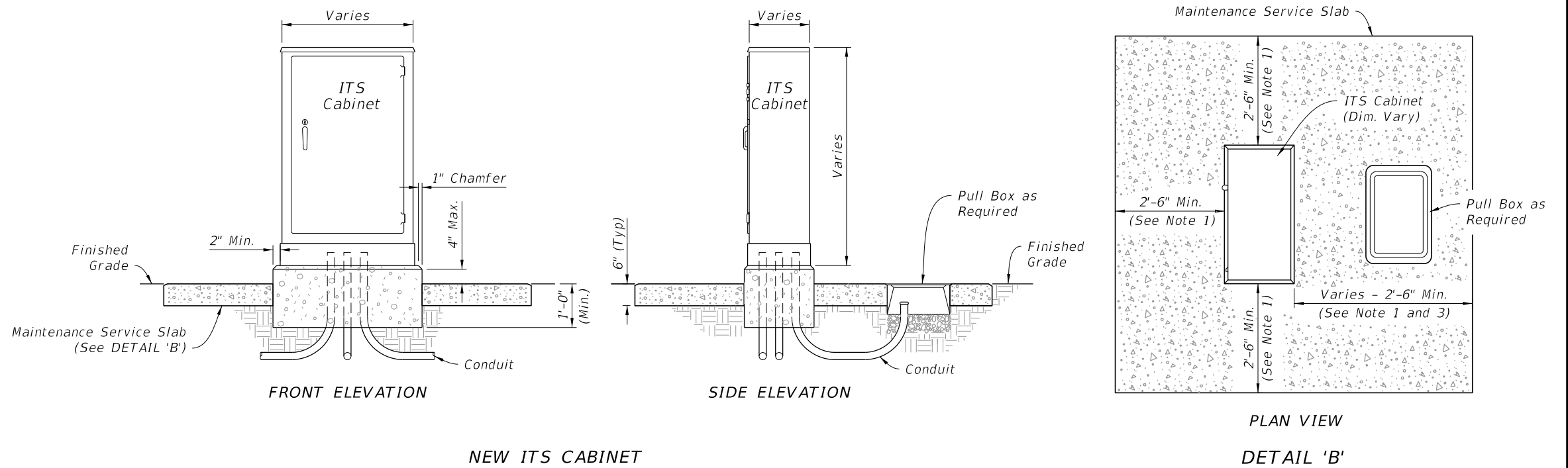
1. Maintenance Service Slab: Use Class NS concrete and slope 1/4" to 1" for drainage. Not required in sidewalk, pavement areas, or where R/W is restricted.
2. If cabinet mounting requires relocation of hole in concrete pole, fill existing hole with concrete or cover with a noncorrosive cover plate.
3. Liquidtight flexible conduit is approved for use from the electrical disconnect to the cabinet when both are installed on the same pole.
4. Where a pull box is to be placed within the maintenance service slab, the slab width must be extended to provide for the required pull box concrete apron as detailed in Index 635-001.
5. Coordinate placement of maintenance service slab with proposed final grade. Grade and compact side slopes around the maintenance service slab to provide a stable and level working area and tie into the proposed embankment.



POLE MOUNTED INTELLIGENT TRANSPORTATION SYSTEMS (ITS) CABINET

NOTES:

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NEW ITS CABINET

GROUND MOUNTED INTELLIGENT TRANSPORTATION SYSTEMS (ITS) CABINET

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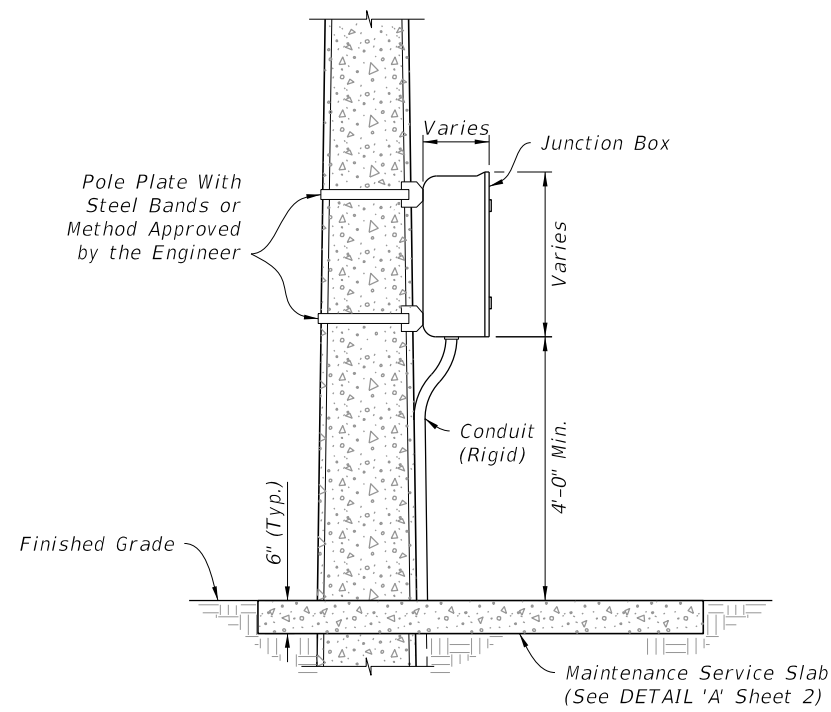
LAST REVISION	DESCRIPTION:
11/01/22	11/01/23



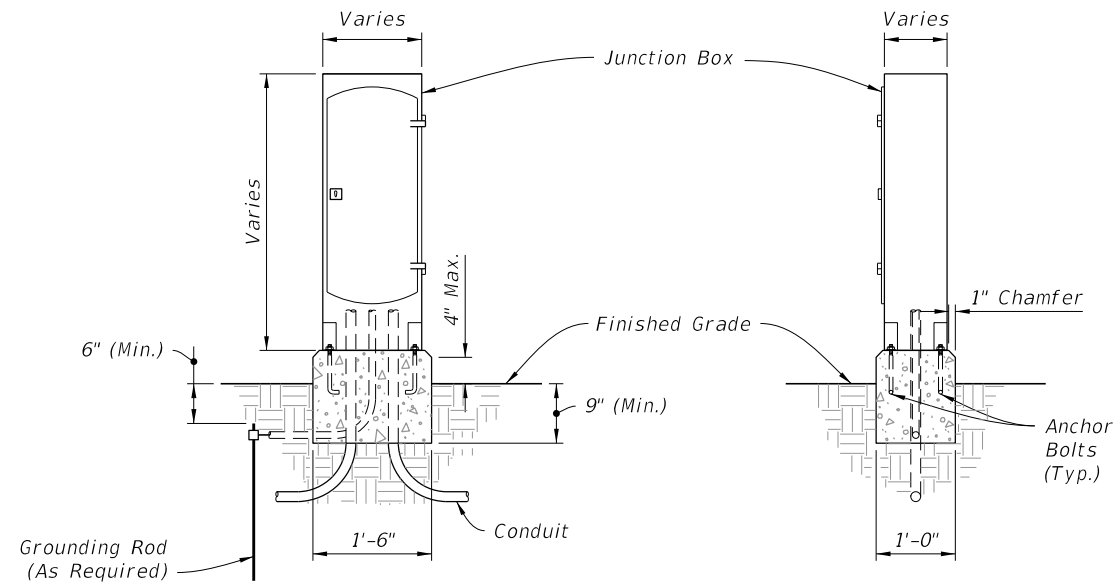
FY 2023-24
STANDARD PLANS

CABINET INSTALLATION DETAILS

INDEX	SHEET
676-010	2 of 3

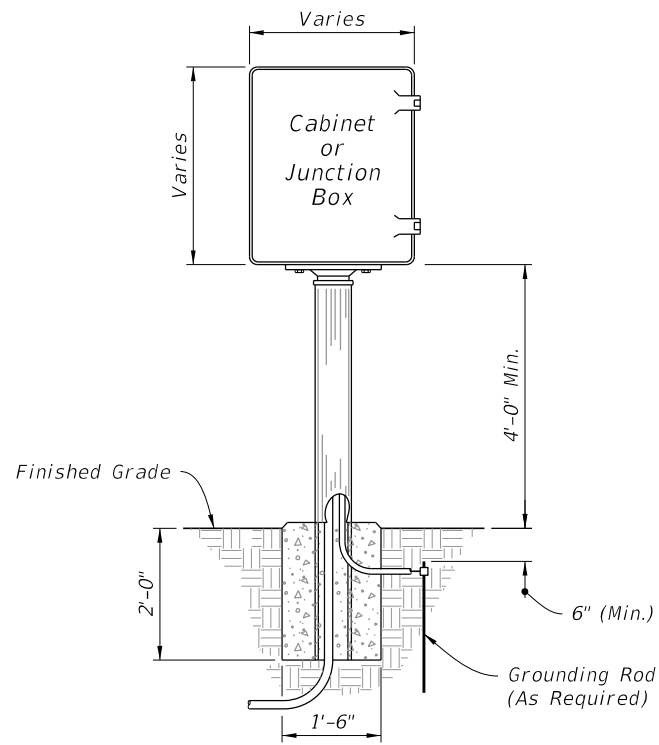


SIDE ELEVATION
POLE MOUNTED



FRONT ELEVATION
SIDE ELEVATION
GROUND MOUNTED

INTERCONNECT JUNCTION BOX



FRONT ELEVATION

PEDESTAL MOUNTED CABINET

10/6/2022 2:34:10 PM

LAST REVISION	DESCRIPTION:
11/01/22	11/01/23



FY 2023-24
STANDARD PLANS

CABINET INSTALLATION DETAILS

INDEX	SHEET
676-010	3 of 3

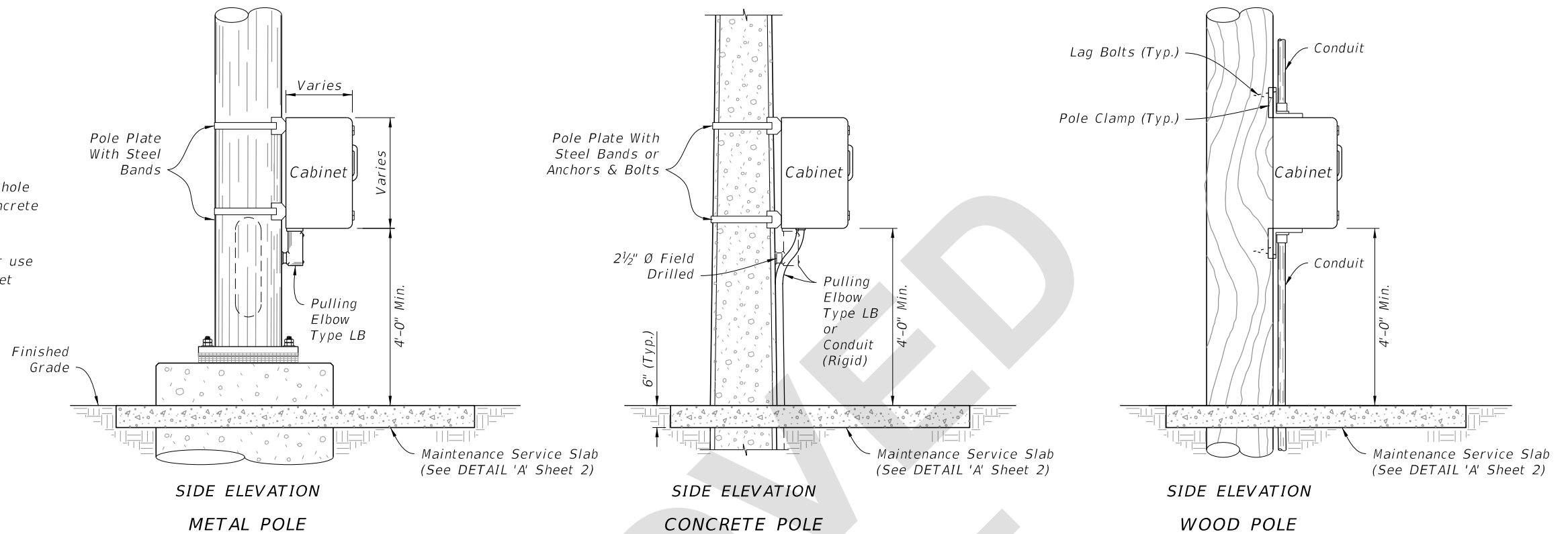
3 of 4

NEW SHEET 4

GROUND MOUNTED CONTROLLER CABINET RISER

NOTES:

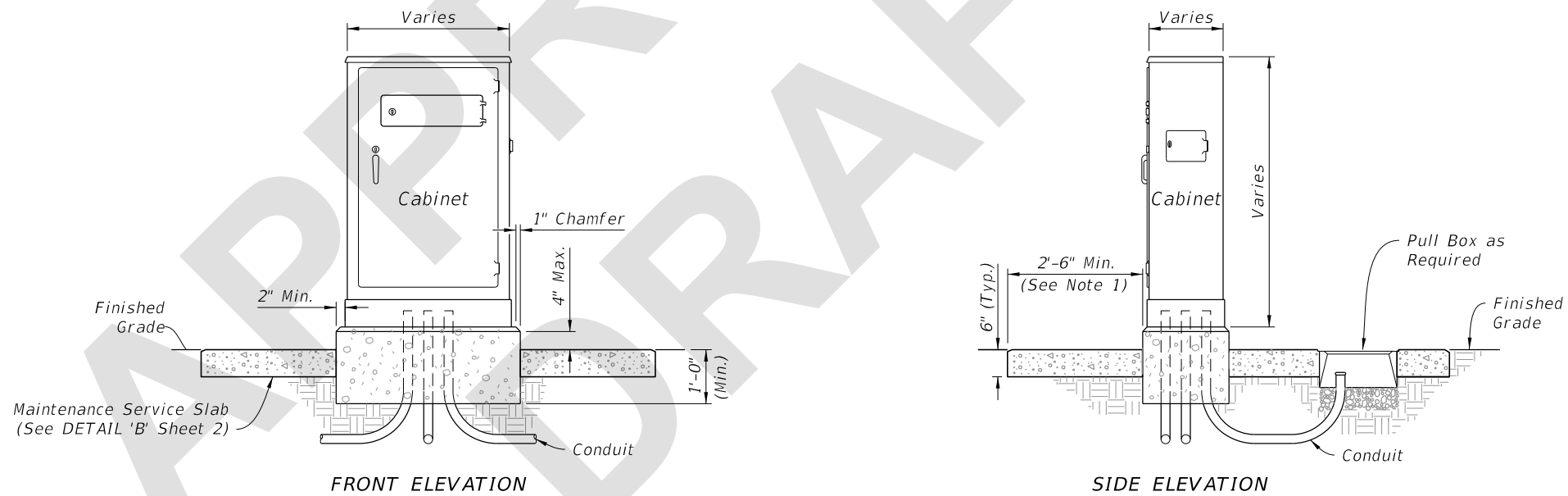
1. If cabinet mounting requires relocation of hole in concrete pole, fill existing hole with concrete or cover with a noncorrosive cover plate.
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POLE MOUNTED CONTROLLER CABINET

NOTES:


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NEW CONTROLLER CABINET

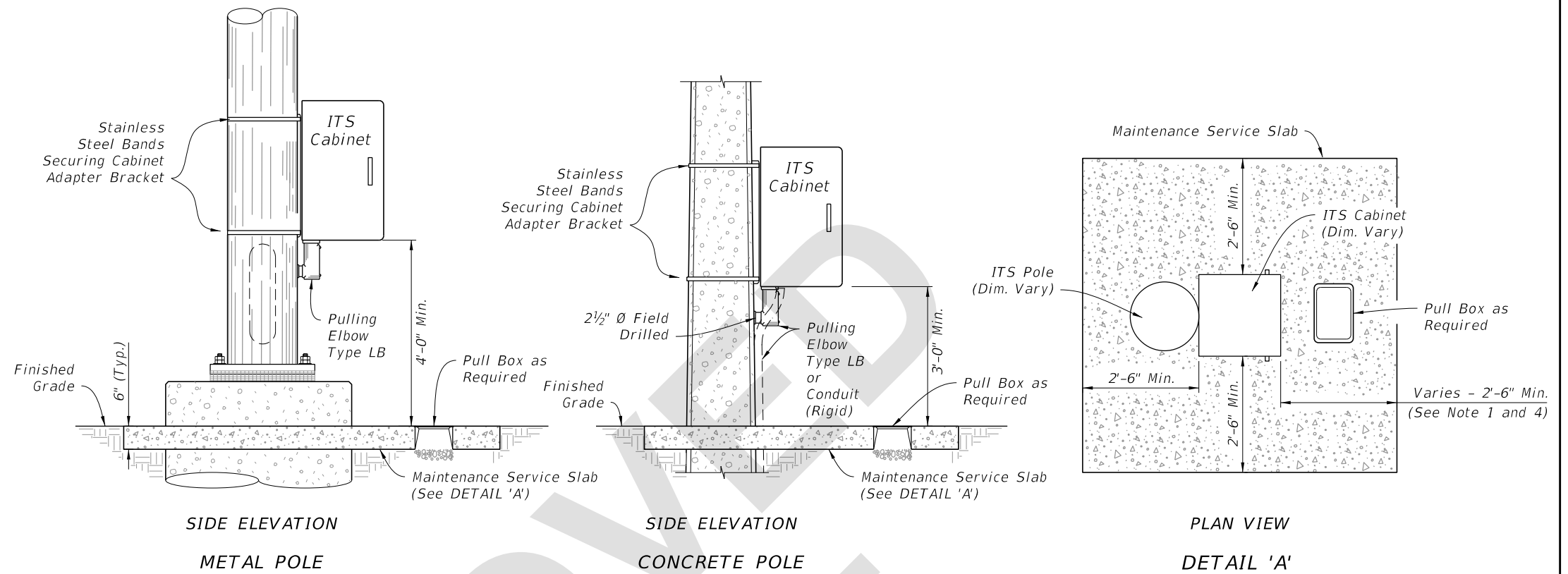
GROUND MOUNTED CONTROLLER CABINET

8/3/2023 10:12:26 AM

LAST REVISION 11/01/23	REVISION	DESCRIPTION:		FY 2024-25 STANDARD PLANS	CABINET INSTALLATION DETAILS	INDEX 676-010	SHEET 1 of 4
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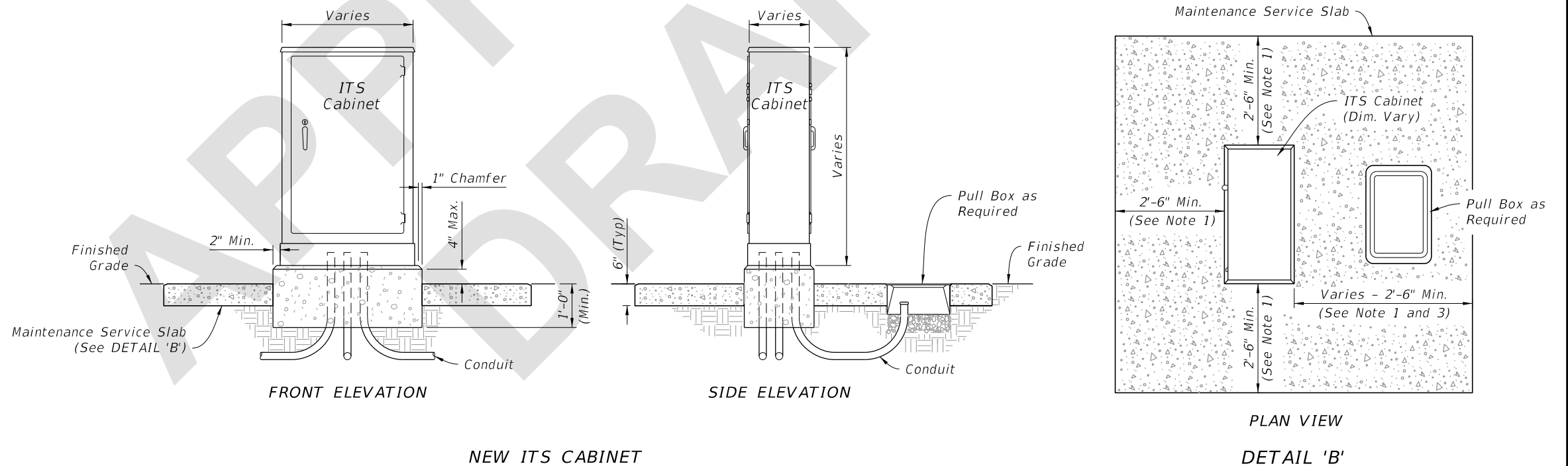
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5. Coordinate placement of maintenance service slab with proposed final grade. Grade and compact side slopes around the maintenance service slab to provide a stable and level working area and tie into the proposed embankment.



POLE MOUNTED INTELLIGENT TRANSPORTATION SYSTEMS (ITS) CABINET


NOTES:

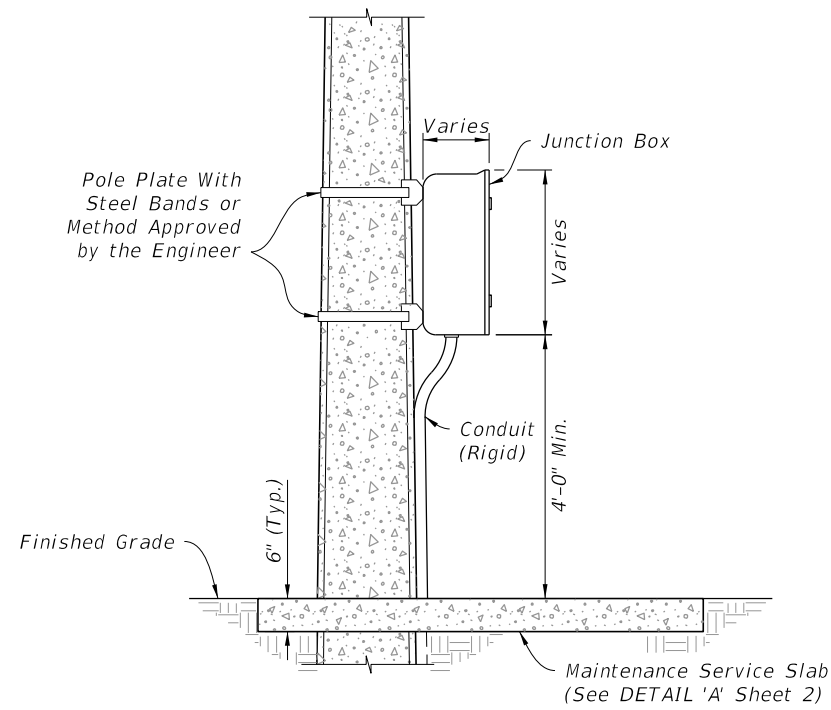
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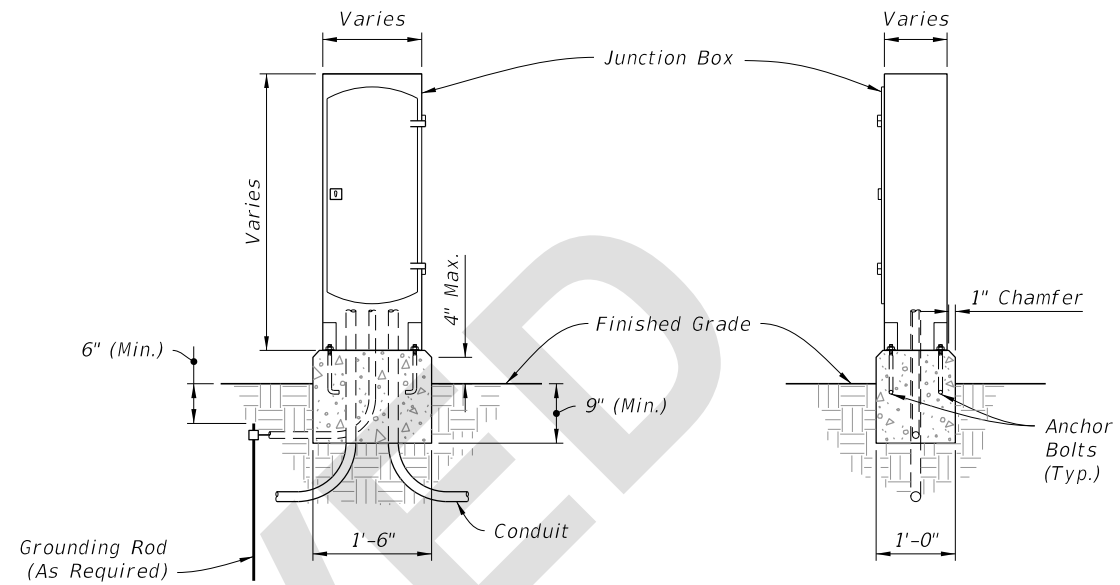
GROUND MOUNTED INTELLIGENT TRANSPORTATION SYSTEMS (ITS) CABINET

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LAST REVISION 11/01/23	REVISION	DESCRIPTION:		FY 2024-25 STANDARD PLANS	CABINET INSTALLATION DETAILS	INDEX 676-010	SHEET 2 of 4
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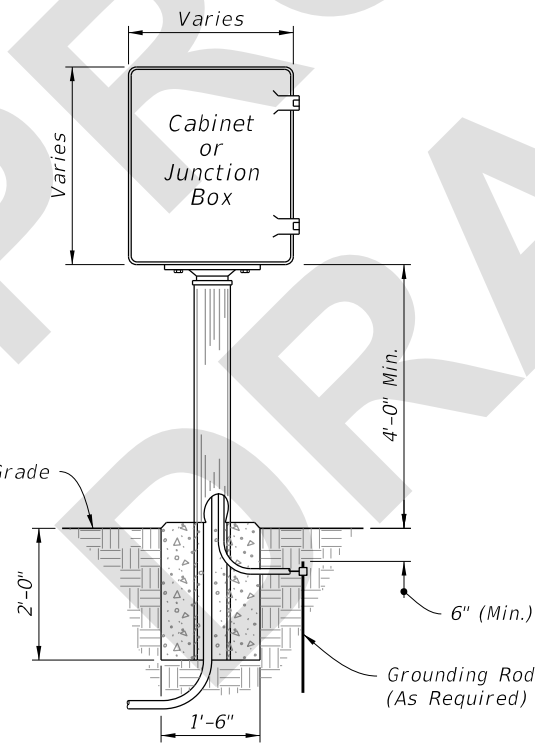


SIDE ELEVATION
POLE MOUNTED



FRONT ELEVATION
SIDE ELEVATION
GROUND MOUNTED


INTERCONNECT JUNCTION BOX

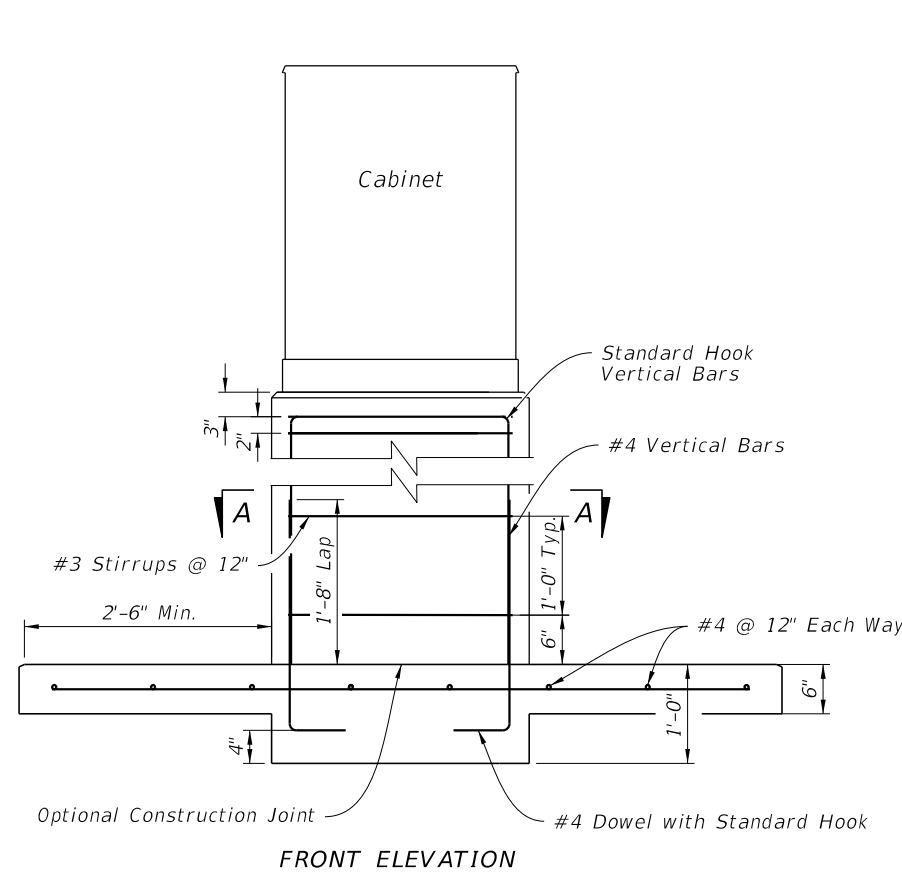


FRONT ELEVATION

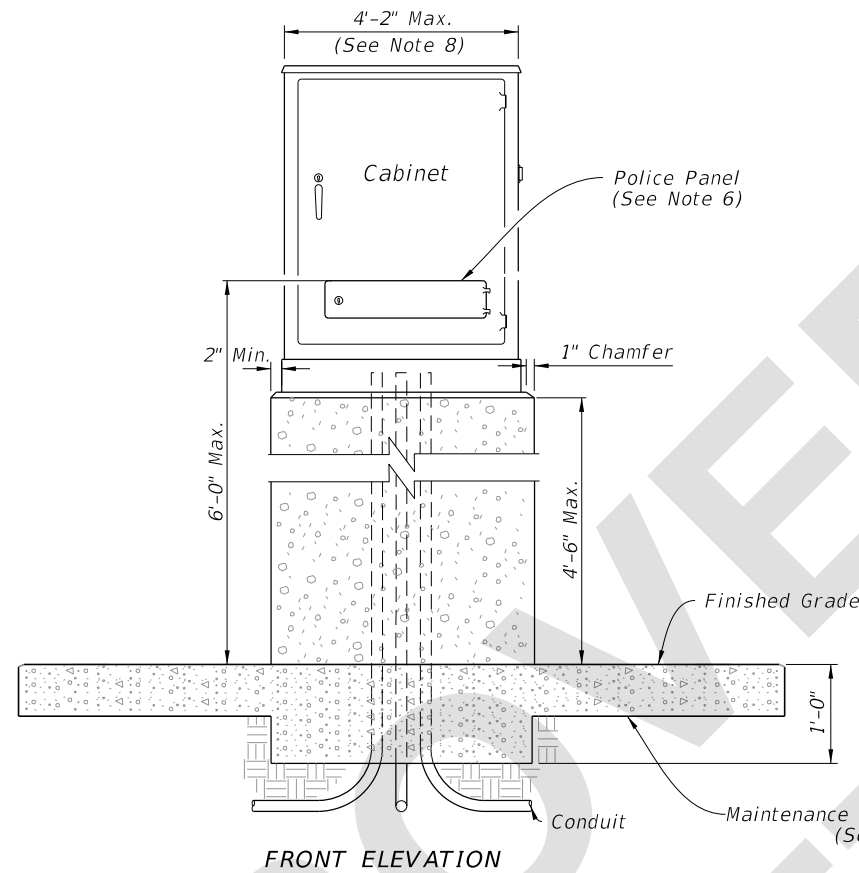
PEDESTAL MOUNTED CABINET

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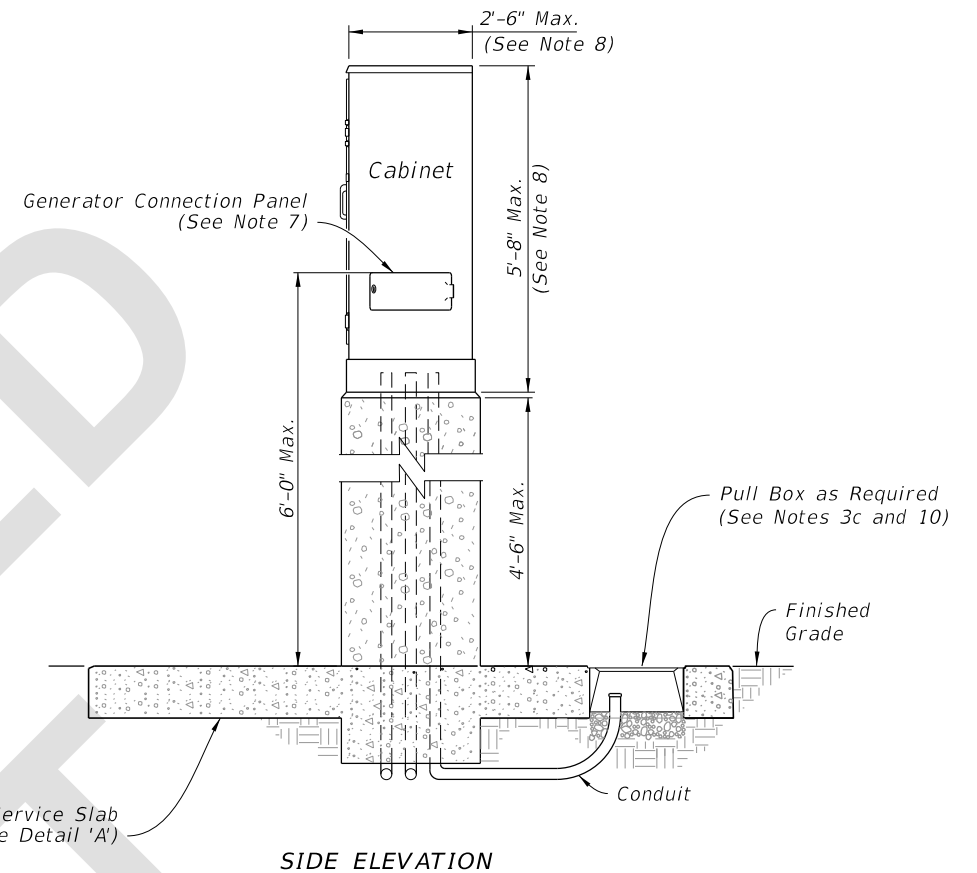
LAST REVISION 11/01/23	REVISION	DESCRIPTION:	 FY 2024-25 STANDARD PLANS	CABINET INSTALLATION DETAILS	INDEX 676-010	SHEET 3 of 4
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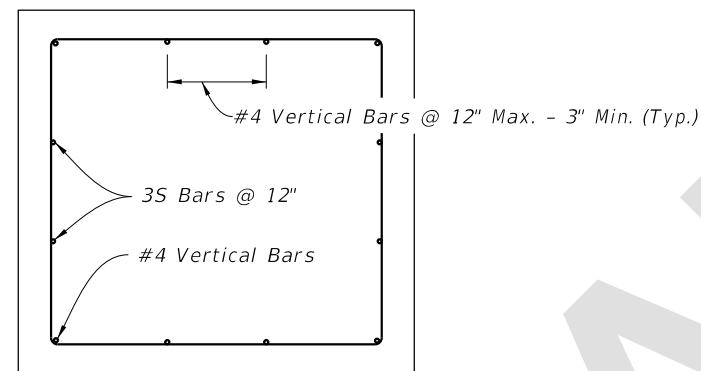
FRONT ELEVATION



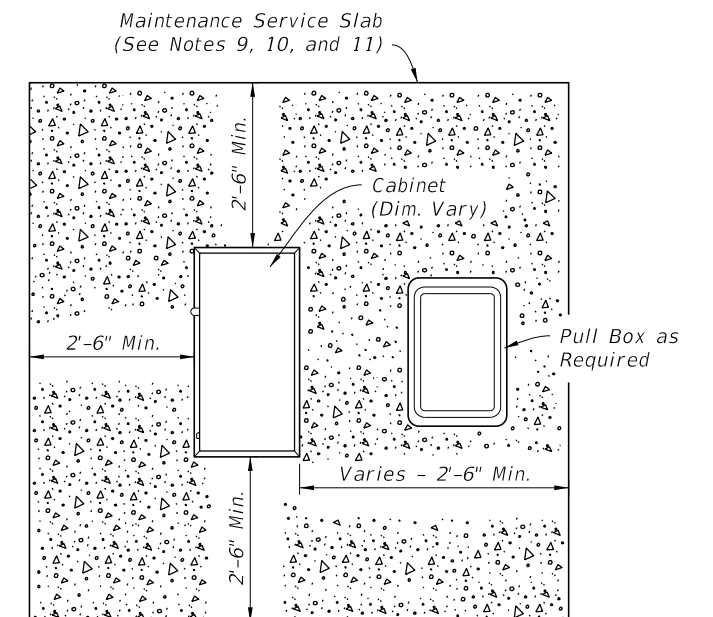
FRONT ELEVATION



SIDE ELEVATION



SECTION A-A



PLAN VIEW


DETAIL 'A'

NOTES

1. Install cabinet riser as called for in the Plans. Concrete riser shown, for other options, see Specification 676.
2. Concrete:
 - a. Concrete will be in accordance with Specification 346.
 - b. Concrete will be Class IV.
3. Reinforcing:
 - a. Reinforcing will be in accordance with Specification 415.
 - b. All reinforcing steel will have a 2" minimum cover unless noted otherwise.
 - c. Adjust reinforcing to facilitate Pull Box. Add equal number of bars to to either side for each bar interrupted by Pull Box.
4. Generator connection cables will be extended by the same length as the riser's height.
5. Controller cabinet depicted. ITS cabinet similar.
6. Locate Police Panel at bottom of cabinet assembly.
7. Locate generator connection panel at bottom of cabinet assembly.
8. Riser dimensions shown are based on maximum cabinet dimensions per the APL.
9. Slope maintenance slab 1/4" to 1" for drainage. Not required in sidewalk, pavement areas, or where R/W is restricted.
10. When a pull box is to be placed within the maintenance service slab, the slab width must be extended to provide for the required pull box apron as detailed in Index 635-001.
11. Coordinate placement of maintenance service slab with proposed final grade. Grade and compact side slopes around the maintenance service slab to provide a stable and level working area and tie into the proposed embankment.
12. The number, size and orientation of conduit sweep will vary according to site condition or location. Provide two spare 2" PVC conduits in all bases. Place the exits of the two spare conduits in the direction of the center rear of the cabinet base and into a pull box. If obstructions prevent the spare conduit from existing to the rear, or the rear of the cabinet is located on the R/W line, locate as directed by the Engineer. Cap all spare conduit sweeps with a weatherproof fitting.

GROUND MOUNTED CONTROLLER CABINET RISER

8/3/2023 10:12:39 AM

LAST REVISION 11/01/23	REVISION	DESCRIPTION:		FY 2024-25 STANDARD PLANS	CABINET INSTALLATION DETAILS	INDEX 676-010	SHEET 4 of 4
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