
ORIGINATION FORM

Proposed Revisions to a Standard Plans Index

(Please provide all information — Incomplete forms will be returned)

Contact Information:

Date: June 28, 2022

Originator: Matthew DeWitt

Phone: (850) 921-7353

Email: matthew.dewitt@dot.state.fl.us

Standard Plans:

Index Number: 676-010

Sheet Number (s): 1-3 of 3

Index Title: CABINET INSTALLATION DETAILS

Summary of the changes:

Sheet 1: Changed concrete thickness in the GROUND and POLE MOUNTED CONTROLLER CABINET detail; Added Maintenance Service Slab; Updated Notes; Renumbered sheet.

Sheet 2: New Sheet - details for Intelligent Transpiration System (ITS) cabinets and service slab requirements.

Sheet 3: New Sheet - INTERCONNECT JUNCTION BOX and PEDESTAL MOUNTED CABINET Details.

Commentary / Background:

These proposed changes were developed based on implementing a maintenance service slab for ITS cabinets recommended during the TDH integration into statewide criteria. Language has also been added to Specification 676 for the maintenance service slab.

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

- | Yes | No | |
|-------------------------------------|-------------------------------------|-----------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Other Standard Plans – |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | FDOT Design Manual – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Basis of Estimates Manual – |
| <input checked="" type="checkbox"/> | <input 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: (Submit package to Rick Jenkins)

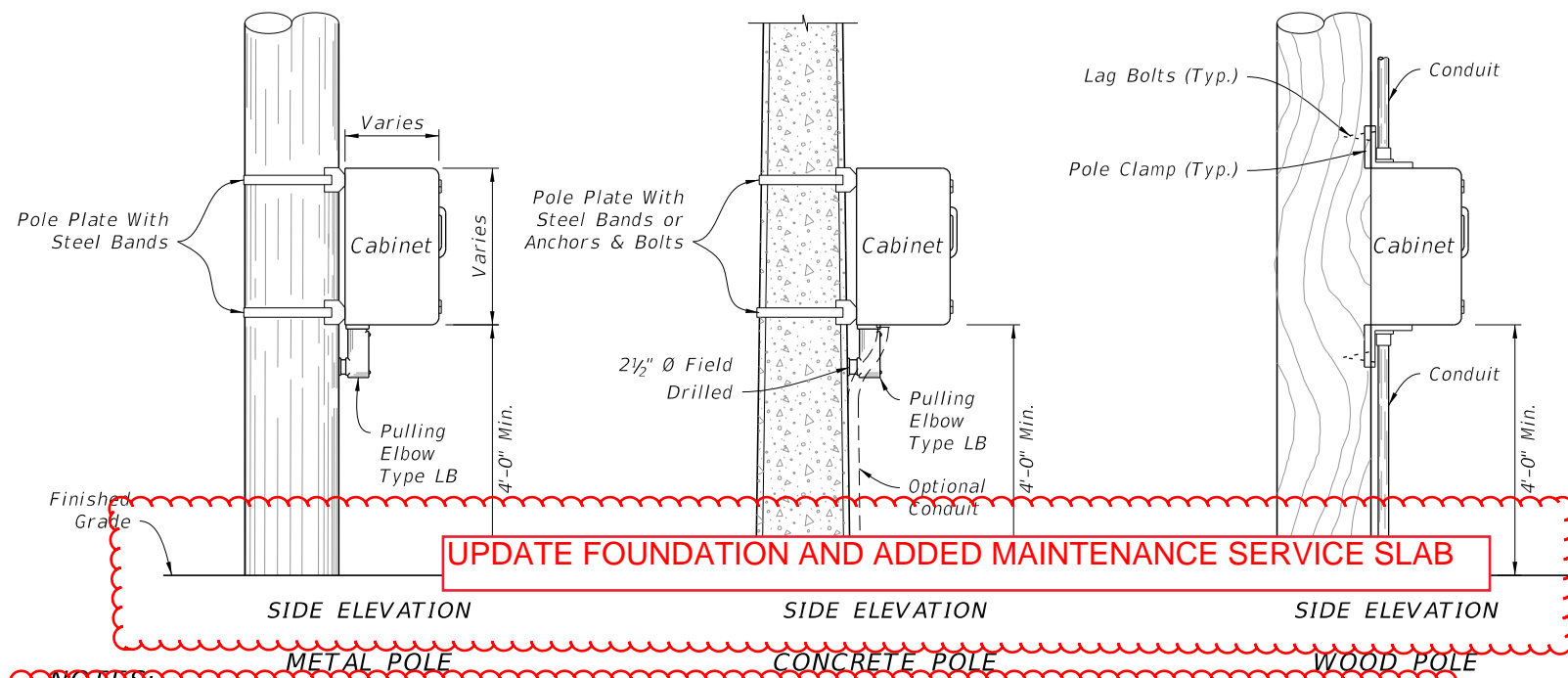
- | Yes | N/A | |
|-------------------------------------|--------------------------|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Redline Mark-ups |
| <input type="checkbox"/> | <input type="checkbox"/> | Revised or Proposed Standard Plan Instruction (SPI) |
| <input type="checkbox"/>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

Implementation:

- | | |
|-------------------------------------|----------------------------------|
| <input type="checkbox"/> | Design Bulletin (Interim) |
| <input type="checkbox"/> | DCE Memo |
| <input type="checkbox"/> | Program Mgmt. Bulletin |
| <input checked="" type="checkbox"/> | FY-Standard Plans (Next Release) |

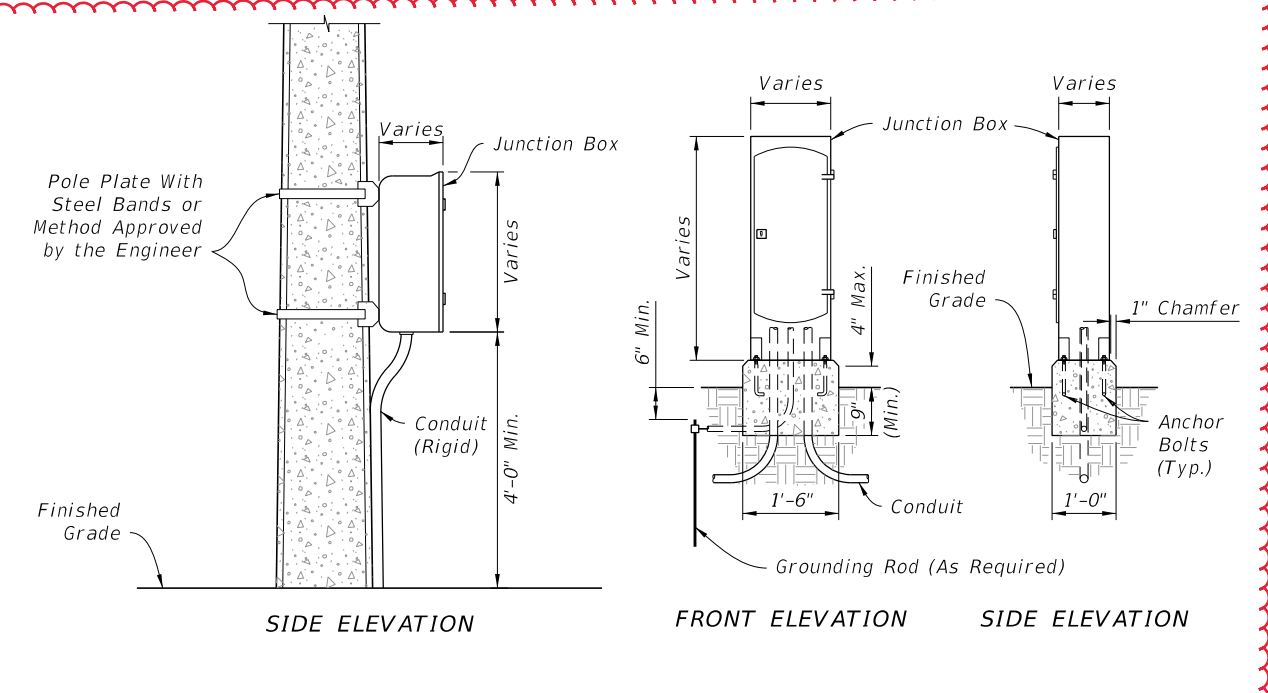
Contact the Roadway Design Office for assistance in completing this form

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



UPDATE FOUNDATION AND ADDED MAINTENANCE SERVICE SLAB

METAL POLE CONCRETE POLE WOOD POLE



POLE MOUNTED GROUND MOUNTED

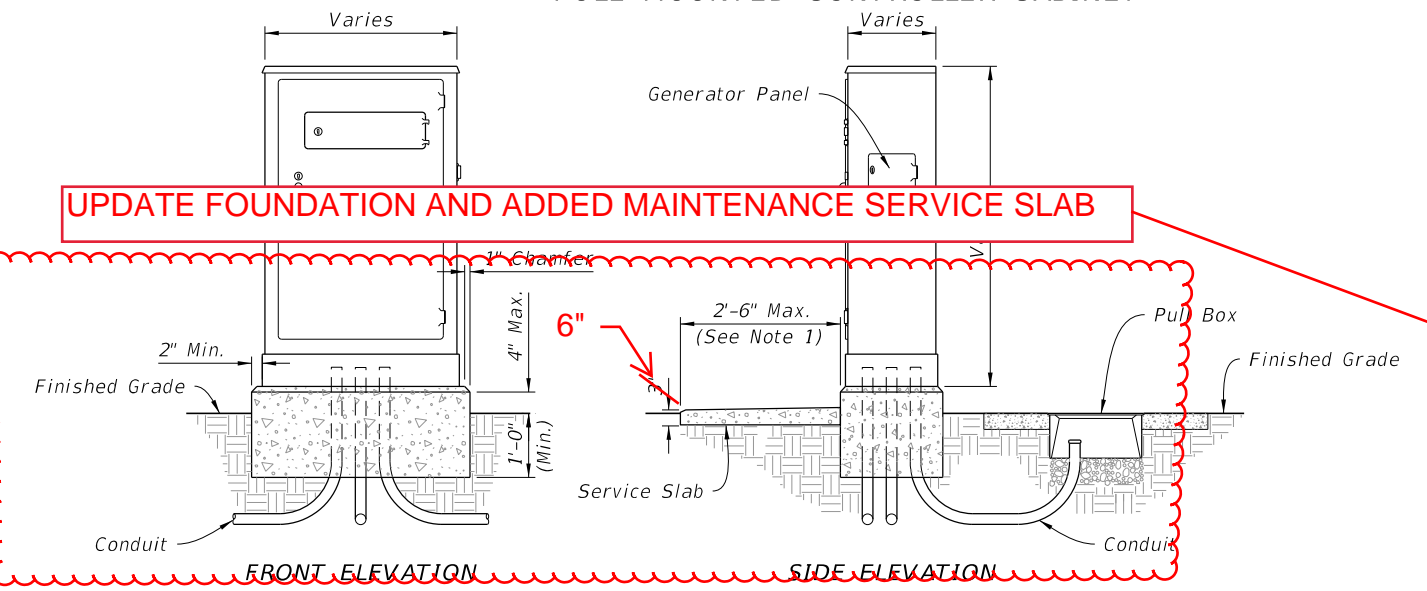
MOVED TO SHEET 3

INTERCONNECT JUNCTION BOX

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.

UPDATED NOTES

POLE MOUNTED CONTROLLER CABINET



UPDATE FOUNDATION AND ADDED MAINTENANCE SERVICE SLAB

NOTES:
 1. Service Slab: 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 pullbox. 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.

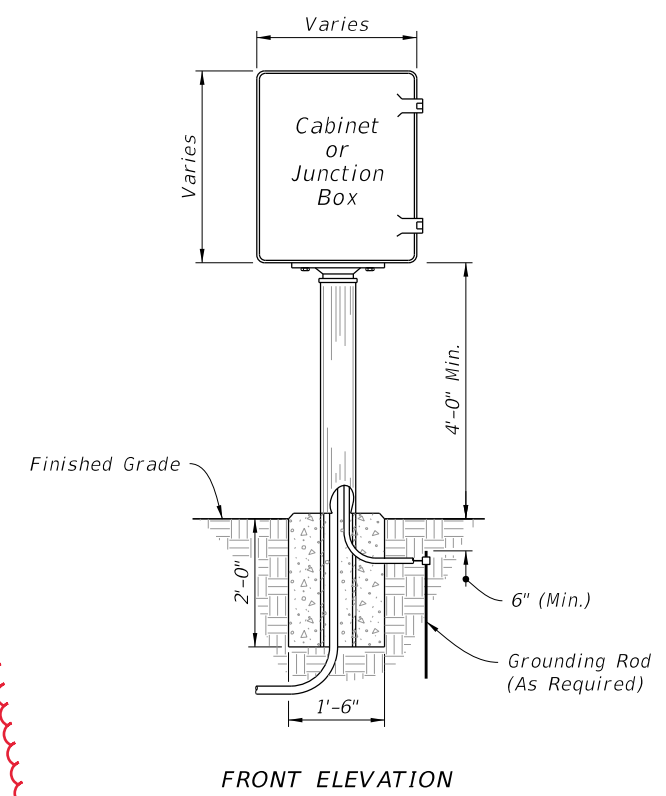
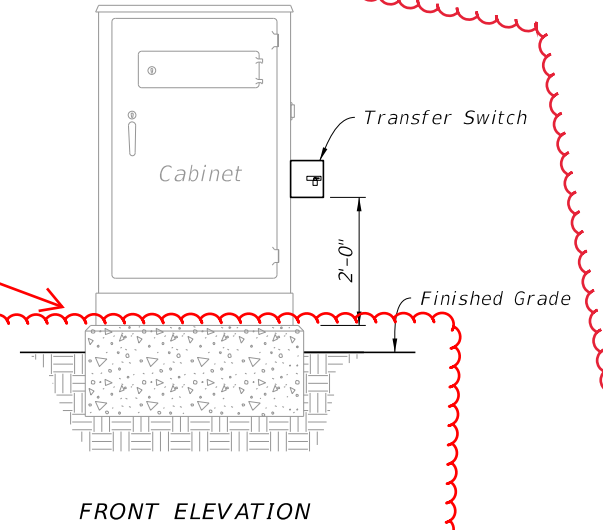
UPDATED NOTES

NEW CONTROLLER CABINET

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/Doc_Library.shtm Generator Power for Signalized Intersection

EXISTING CONTROLLER CABINET

GROUND MOUNTED CONTROLLER CABINET



PEDESTAL MOUNTED CABINET

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LAST REVISION	DESCRIPTION:
11/01/18	11/01/22

NEW SHEET 2

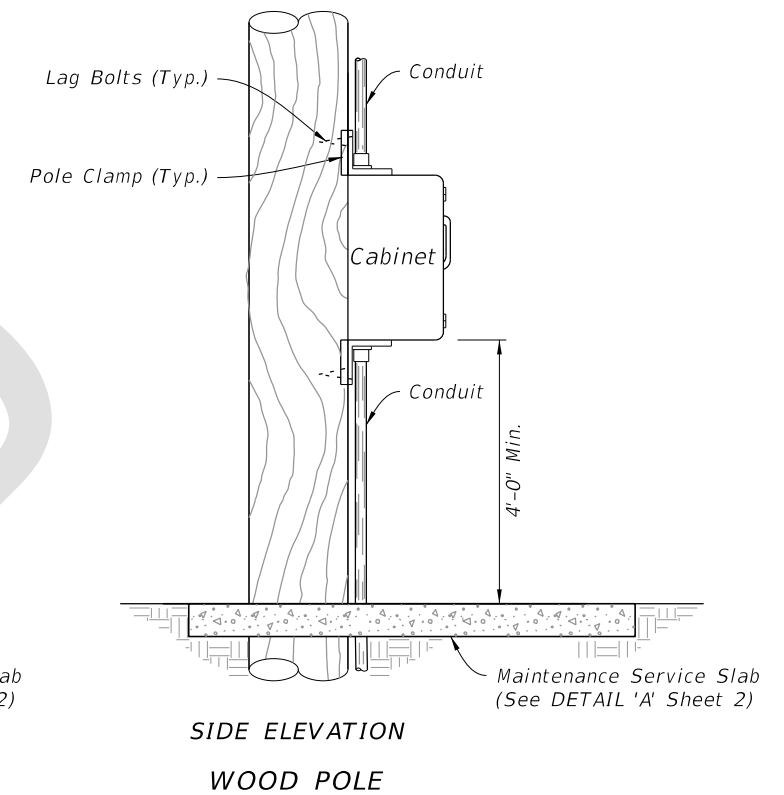
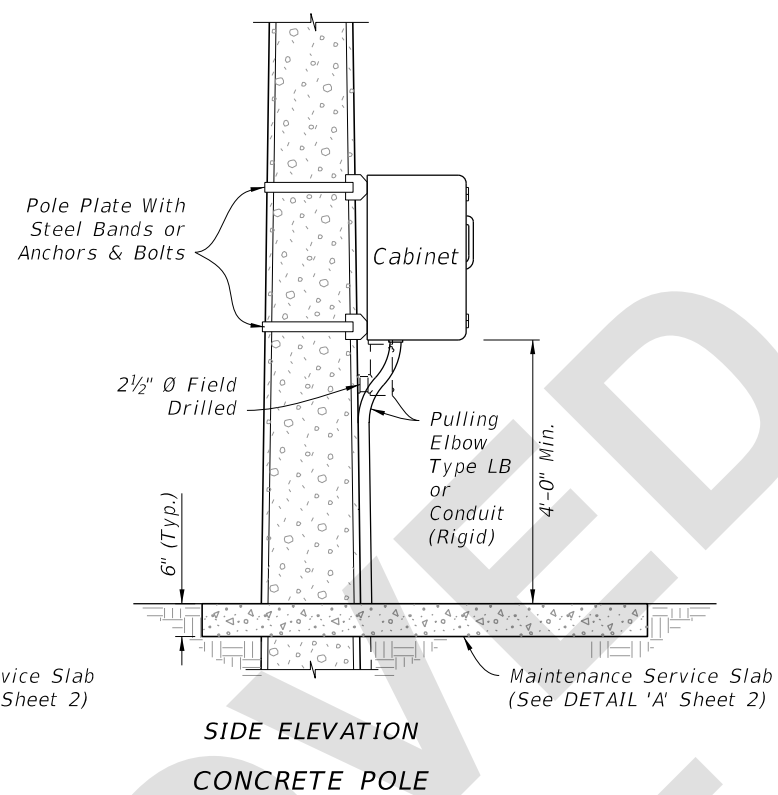
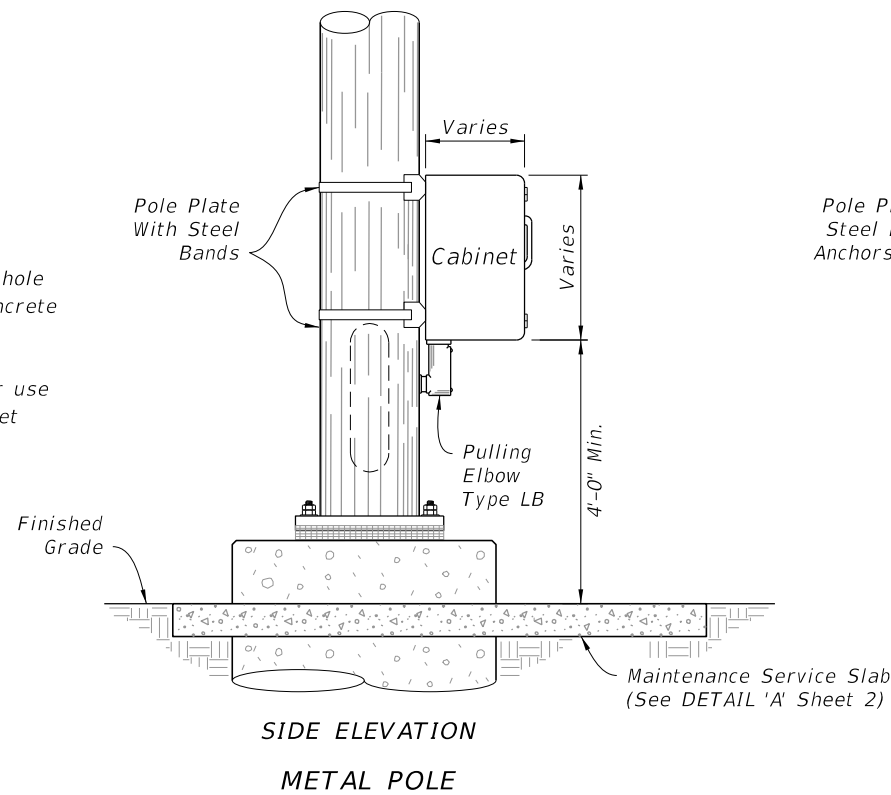
POLE MOUNTED INTELLIGENT TRANSPORTATION SYSTEM (ITS) CABINET
GROUND MOUNTED INTELLIGENT TRANSPORTATION SYSTEM (ITS) CABINET

NEW SHEET 3

INTERCONNECT JUNCTION BOX
PEDESTAL MOUNTED CABINET

NOTES:

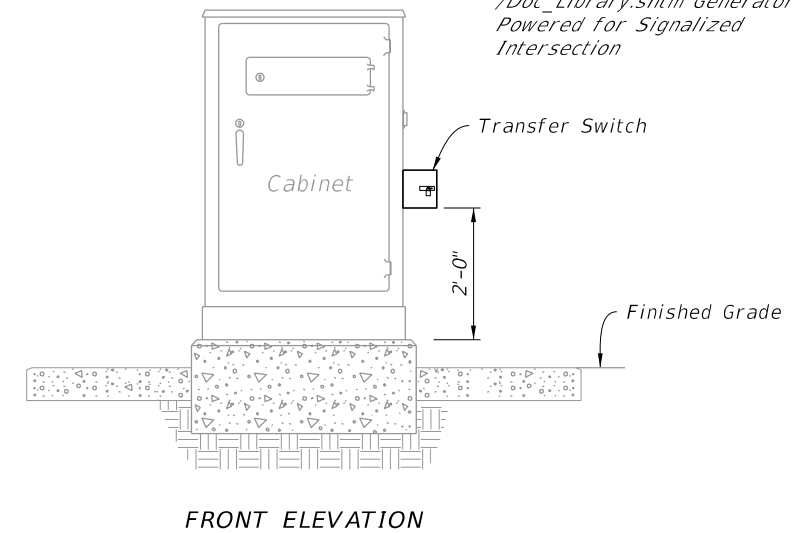
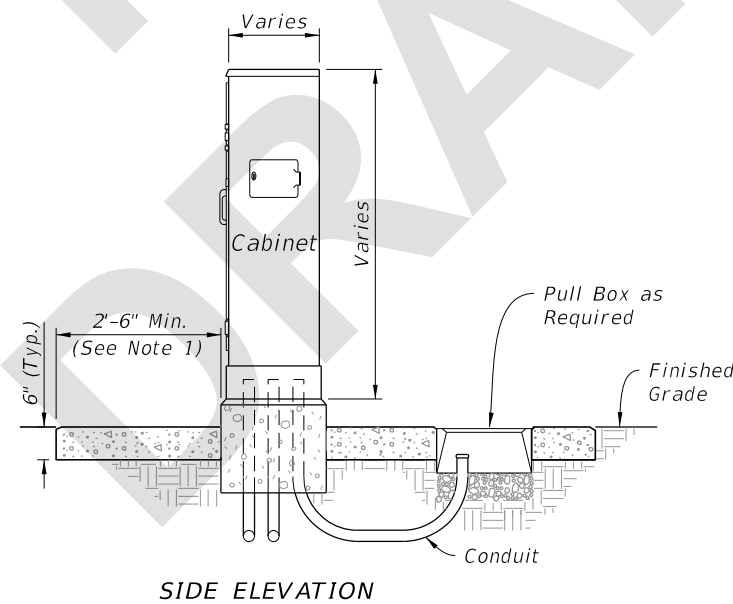
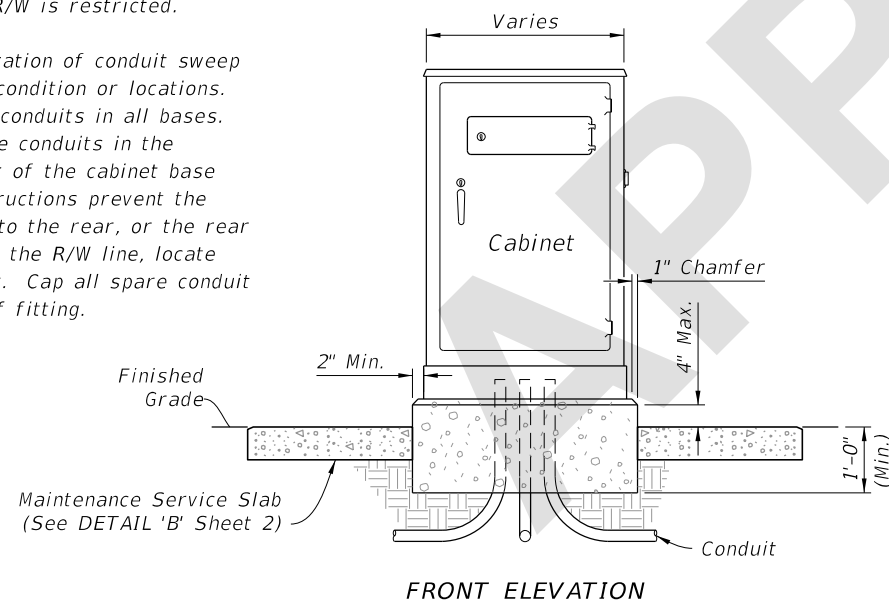
1. If cabinet mounting requires relocation of hole in concrete pole, fill existing hole with concrete or cover with a noncorrosive cover plate.
2. Liquidtight flexible conduit is approved for use from the electrical disconnect to the cabinet when both are installed on the same pole.



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.



NEW CONTROLLER CABINET


EXISTING CONTROLLER CABINET

GROUND MOUNTED CONTROLLER CABINET

NOTES:

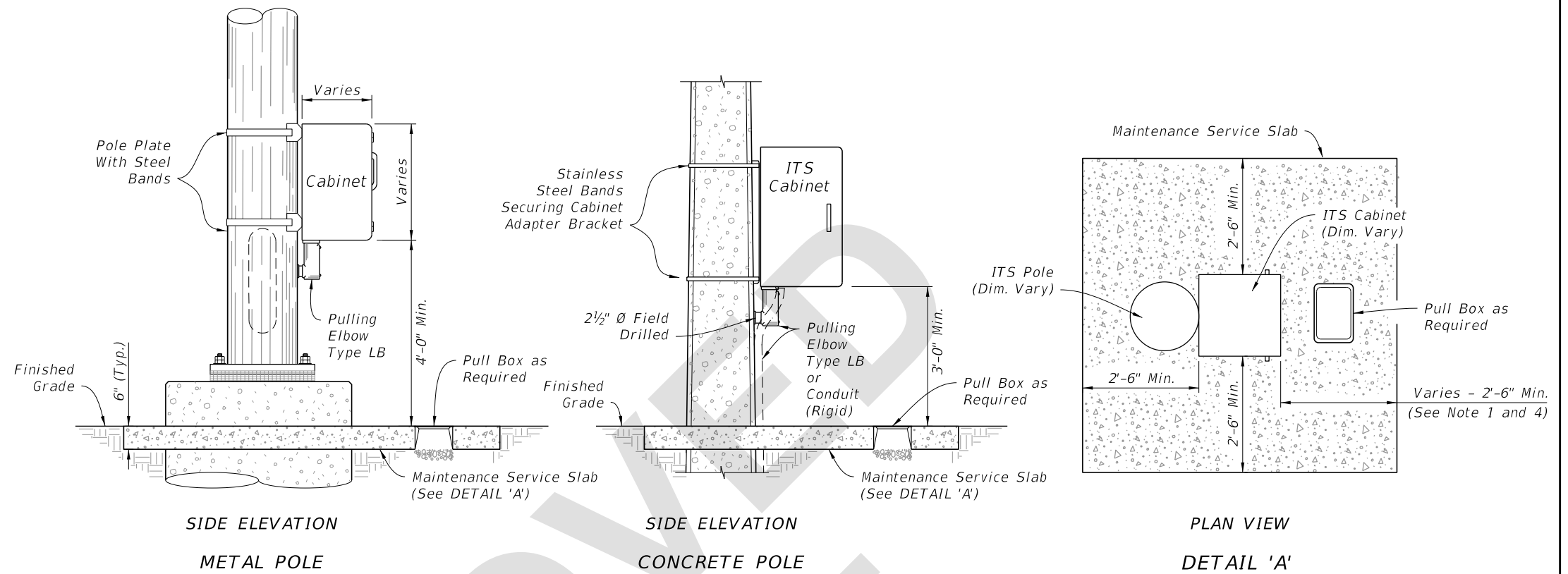
1. Retrofit existing controller cabinets in accordance with Specification 678.
2. Retrofit installation procedure for signalized intersection controller cabinet are located at: http://www.fdot.gov/Traffic/Doc_Library.shtm Generator Powered for Signalized Intersection

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

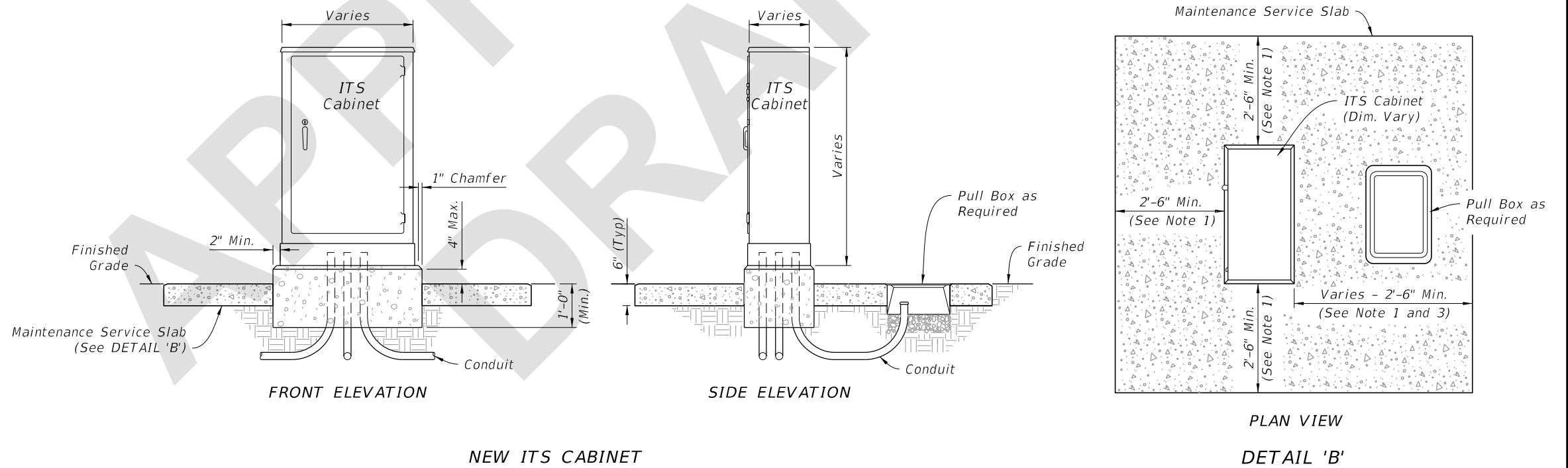
1. Maintenance Service Slab: Use Class NS concrete and slope 1/4" to 1" for drainage. Not required in sidewalk, pavement areas, or where R/W is restricted.
2. If cabinet mounting requires relocation of hole in concrete pole, fill existing hole with concrete or cover with a noncorrosive cover plate.
3. 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:


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.
3. 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.
4. 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.

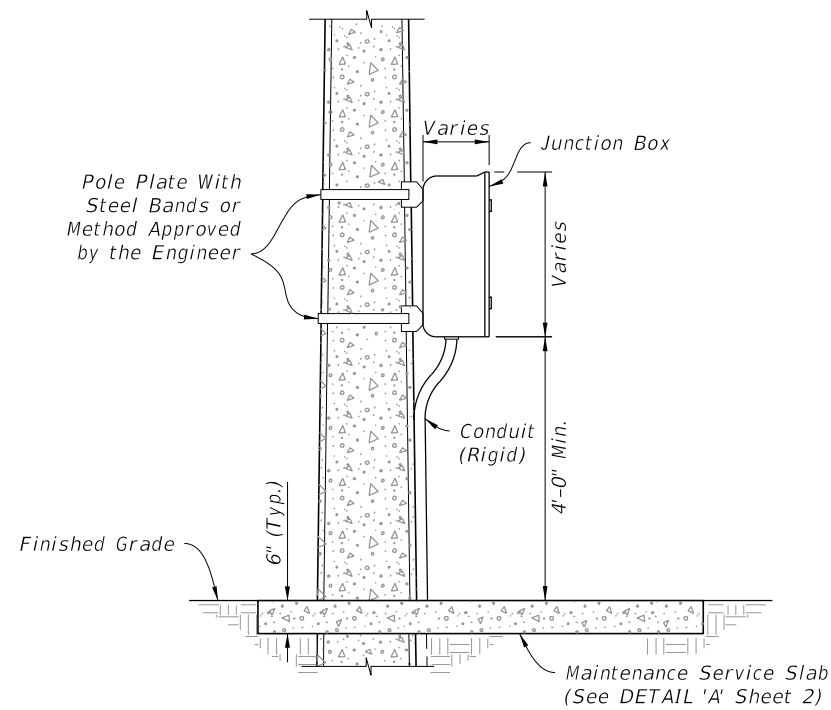


NEW ITS CABINET

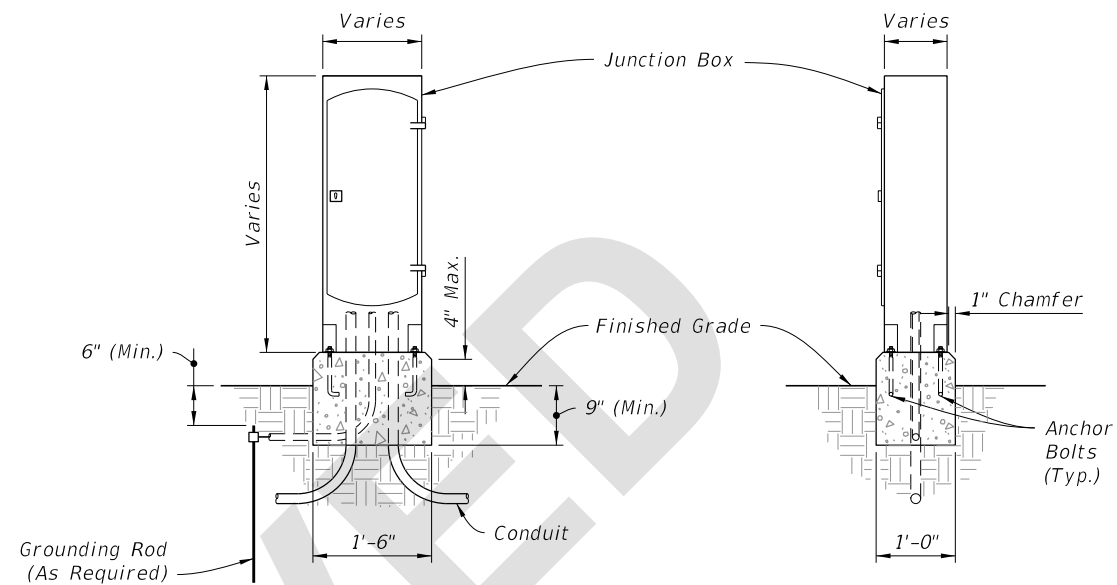
GROUND MOUNTED INTELLIGENT TRANSPORTATION SYSTEMS (ITS) CABINET

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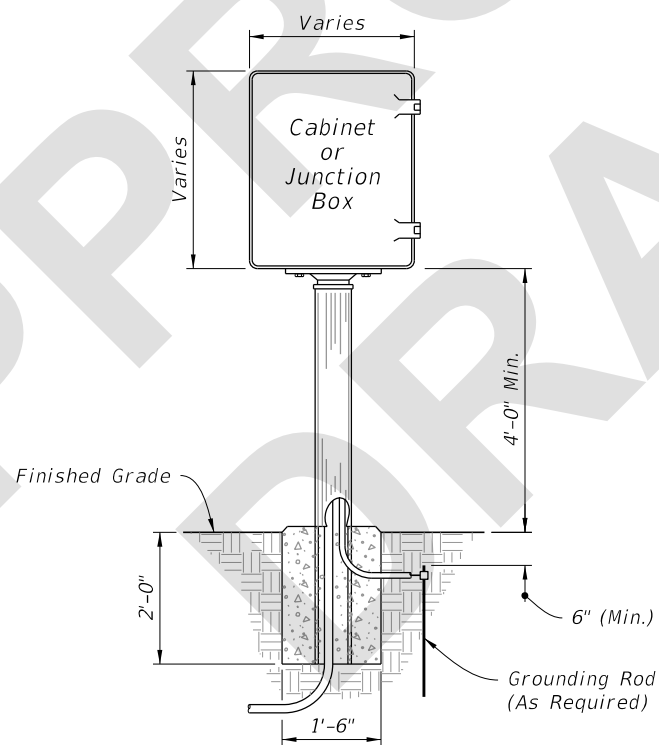


SIDE ELEVATION
POLE MOUNTED



FRONT ELEVATION
SIDE ELEVATION
GROUND MOUNTED

INTERCONNECT JUNCTION BOX



FRONT ELEVATION

PEDESTAL MOUNTED CABINET

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LAST REVISION 11/01/22

REVISION

DESCRIPTION:



FY 2023-24
STANDARD PLANS

CABINET INSTALLATION DETAILS

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676-010

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