ORIGINATION FORM —

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

Contact	Information:	Standard Plans:	
Date: Jan	uary 14, 2021	Index Number: 700-120	
Originator	: Malcolm Tomatani	Sheet Number (s): All Sheets	
Phone: (850) 921-7305		Index Title: Enhanced Highway Signing Assemblies	
Email: ma	lcolm.tomatani@dot.state.fl.us		
Summar	y of the changes:		
	ets: Re-numbered. : Deleted the ground wire from the FRONT VIEW	in the WITHOUT AUXILIARY POLE.	
Sheet 2	Deleted the ground wire and strain relief fitting	from DETAIL "B".	
Sheet 9	- Change "Point to Point Microwave" to "Wireles Remove "Microwave" from the FRONT VIEW ar		
Sheet 1	0: Renumbered Sheet 11.		
New Sh	eet 10 - New sheet for Roadside Sign Assembly-8	, Blank Out Signs.	
Commer	ntary / Background:		
See ad	ditional sheet.		
Other Af	fected Offices / Documents: (Provide name of	of person contacted)	
Yes N	Other Standard Plans — FDOT Design Manual — Basis of Estimates Manual — Missy Hollis Standard Specifications — Approved Product List — Construction —		
Origination Package Includes:		<u>Implementation:</u>	
(Email or Yes N// ✓ □ □ ✓ □ ✓ □ ✓ □ ✓ □ ✓ □ ✓ □ ✓ □ ✓ □ ✓ □	Redline Mark-ups Proposed Standard Plan Instruction (SPI) Revised SPI Other Support Documents	☐ Design Bulletin (Interim) ☐ DCE Memo ☐ Program Mgmt. Bulletin ☑ FY-Standard Plans (Next Release)	
	Contact the Roadway Design Office f	or assistance in completing this form —————	

ORIGINATION FORM

Proposed Revisions to a Standard Plans Index

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

Contact Information:

Date: January 14, 2021

Originator: Malcolm Tomatani

Phone: (850) 921-7305

Email: malcolm.tomatani@dot.state.fl.us

Standard Plans:

Index Number: 700-120

Sheet Number (s): All Sheets

Index Title: Enhanced Highway Signing Assemblies

Additional Information, as needed:

Sheet 2 - A ground wire is not required for a sign assembly without an auxiliary pole. The ground wire will be removed from Detail B on Sheet 2.

Sheet 9 - The manufacturers have been using omnipolar wireless links between assemblies instead of point-to-point microwave links. Agencies have been using other forms of detection instead of microwave. The Wrong Way Vehicle Detection System detectors shall be nonspecific.

New Sheet 11 - Traditionally, Blank Out signs have been installed on traffic signal mast arms. To allow flexibility in installation, the roadside mounting option is being proposed.

ORIGINATION FORM -

Proposed Revisions to a Standard Plans Index

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

Contact Information:

Standard Plans:

Date: June 6, 2021

Index Number: 700-120

Originator: Derwood Sheppard

Sheet Number (s): 2

Phone: (850) 414-4334

Index Title: Enhanced Highway Signing Assemblies

Email: derwood.sheppard@dot.state.fl.us

Summary of the changes:

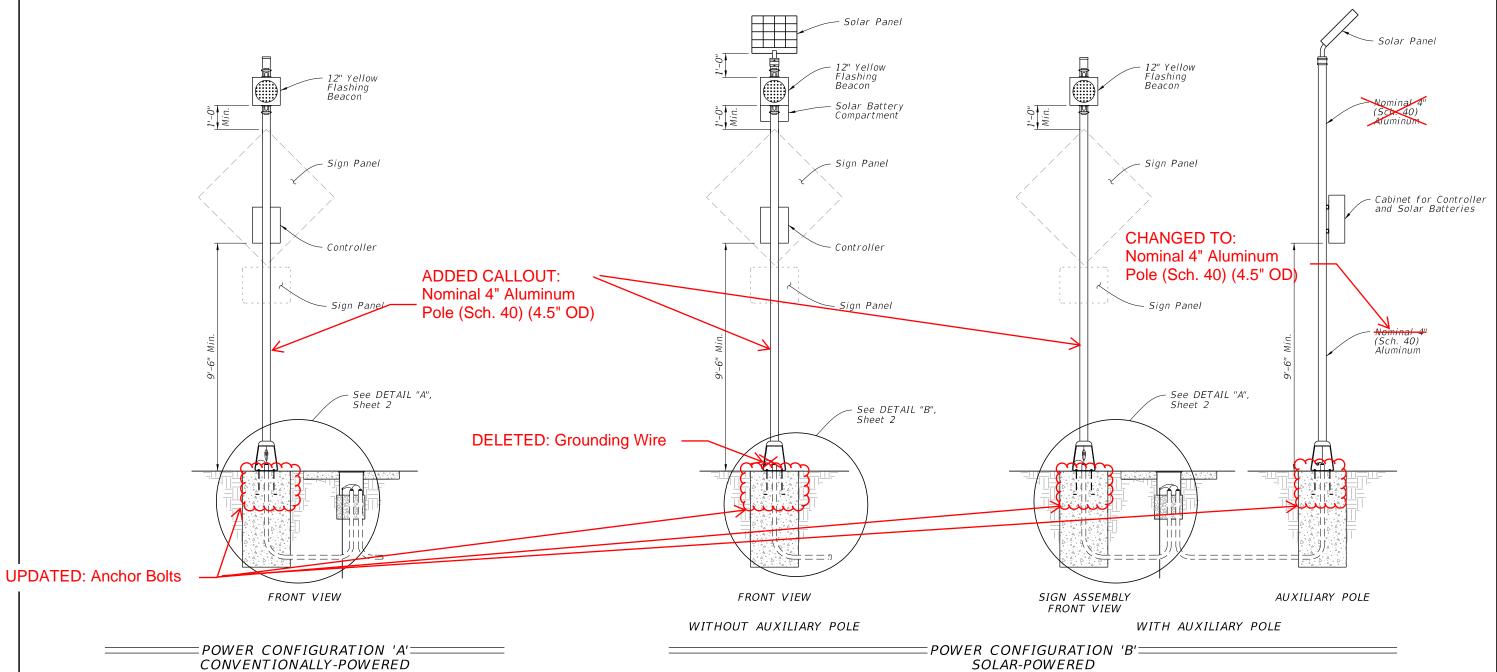
- Sheet 1: Updated General Note 4; Change all references "4" Nominal Aluminum Pole" to "Nominal 4" Aluminum Pole (Sch. 40) (4.5" OD)"; Updated anchor bolts.
- Sheet 2: Add new detail to show foundation reinforcement; Change all references "4" Nominal Aluminum Pole" to "Nominal 4" Aluminum Pole (Sch. 40) (4.5" OD)"; Updated anchor bolts.
- Sheets 3 through 11: Updated callouts to point to both details; Change all references "4" Nominal Aluminum Pole" to "Nominal 4" Aluminum Pole (Sch. 40) (4.5" OD)"; Updated anchor bolts; Added Note "Foundation reinforcement not shown".

Commentary / Background:

The foundations within 646-001, 654-001, 695-001, and 700-120 are being updated to be more consistent between

		ons. An analysis was completed to determin nt design between the various applications.		· ·			
Other Affected Offices / Documents: (Provide name of person contacted)							
Yes	No V	Other Standard Plans – Andre Pavlov FDOT Design Manual – Basis of Estimates Manual – Standard Specifications – Approved Product List – Construction – Maintenance –					
		nn Package Includes: Ind deliver package to Rick Jenkins) Redline Mark-ups Proposed Standard Plan Instruction (SPI) Revised SPI 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 -



CONVENTIONALLY-POWERED (Type A1 Shown)

GENERAL NOTES:

- 1. Install sign assemblies based on Alpha-Numeric Type designation shown in the Plans (e.g., Type A1). Assembly Type is based on Power Configuration 'Alpha' Identification shown above and Numerical Identification shown on Sheet 3 thru 8.
 - **UPDATED NOTE 4**
- 2. Install sign panel and wind beam in accordance with Index 700 $^{\circ}$ 010 and Specification 700.
- 3. Engage all threads on the transformer base and post inless the aluminum post is fully seated into base.
- 5. Install a concrete slab around all roadside assemblies on slopes 6:1 or greater. The minimum slab dimension is 6" by 4'-0" by 5'-0".
- 6. When wire entry holes are drilled in the sign column, use a bushing or rubber grommet to protect conductors.

POWER CONFIGURATION 'B' NOTES:

- 1. Install a separate pole for mounting the solar panel, controller and batteries for all roadside assemblies with solar panels, controllers and batteries weighing more than 170 lbs.
- 2. Install the auxiliary pole as close to the right of way boundary
- 3. Install the auxiliary pole so that the height is the same as the column for the roadside assembly.
- 4. Orient solar panel to face South for optimal exposure to sunlight.
- 5. The controller and the solar batteries may be located in the same compartment.

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4	Roadside Sign Assembly-2		
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6	Roadside Sign Assembly-4		
7	Roadside Sign Assembly-5		
8	Roadside Sign Assembly-6		
9	Roadside Sign Assembly-7		
10	Overhead Sign Assembly		

REVISION 07/01/19

FDOT

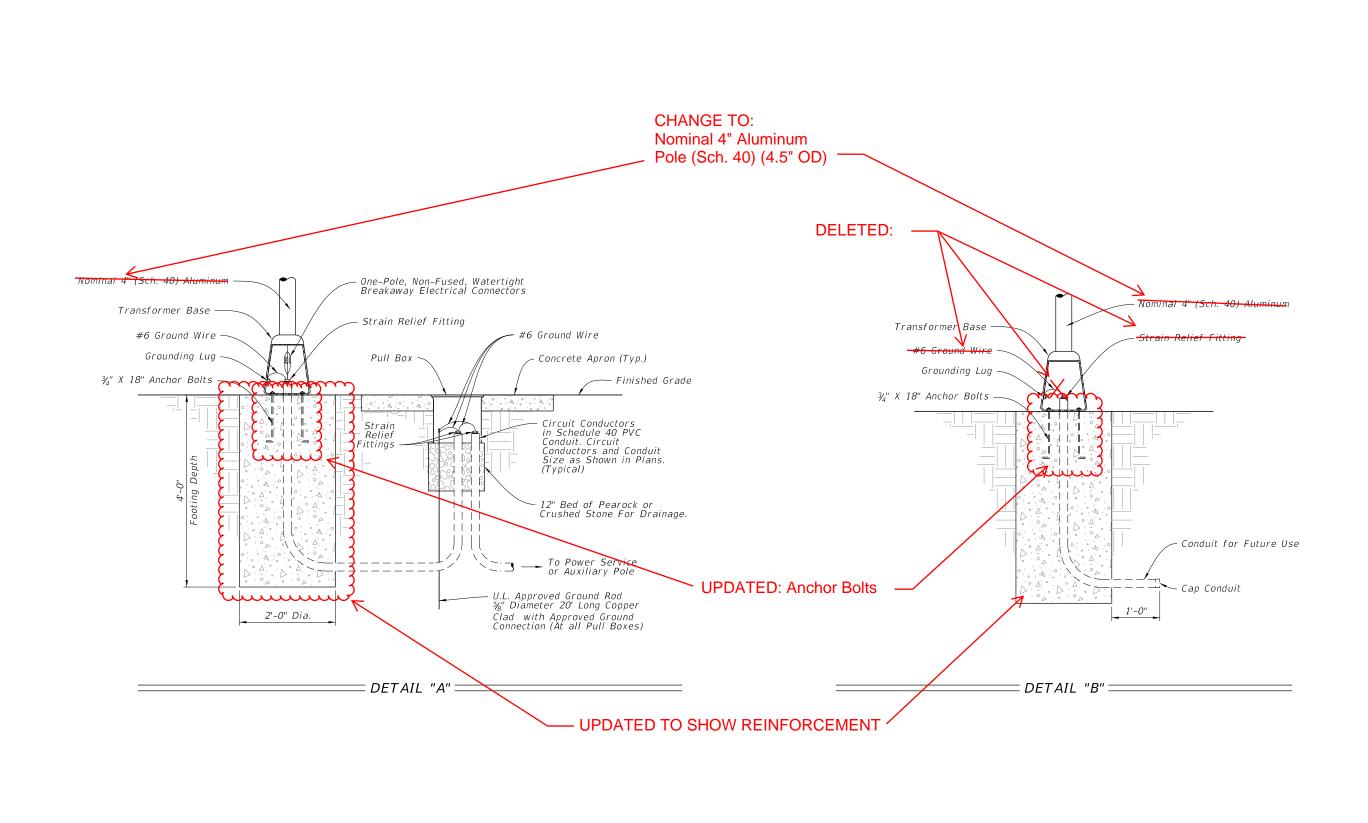
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(Type B1 Shown)

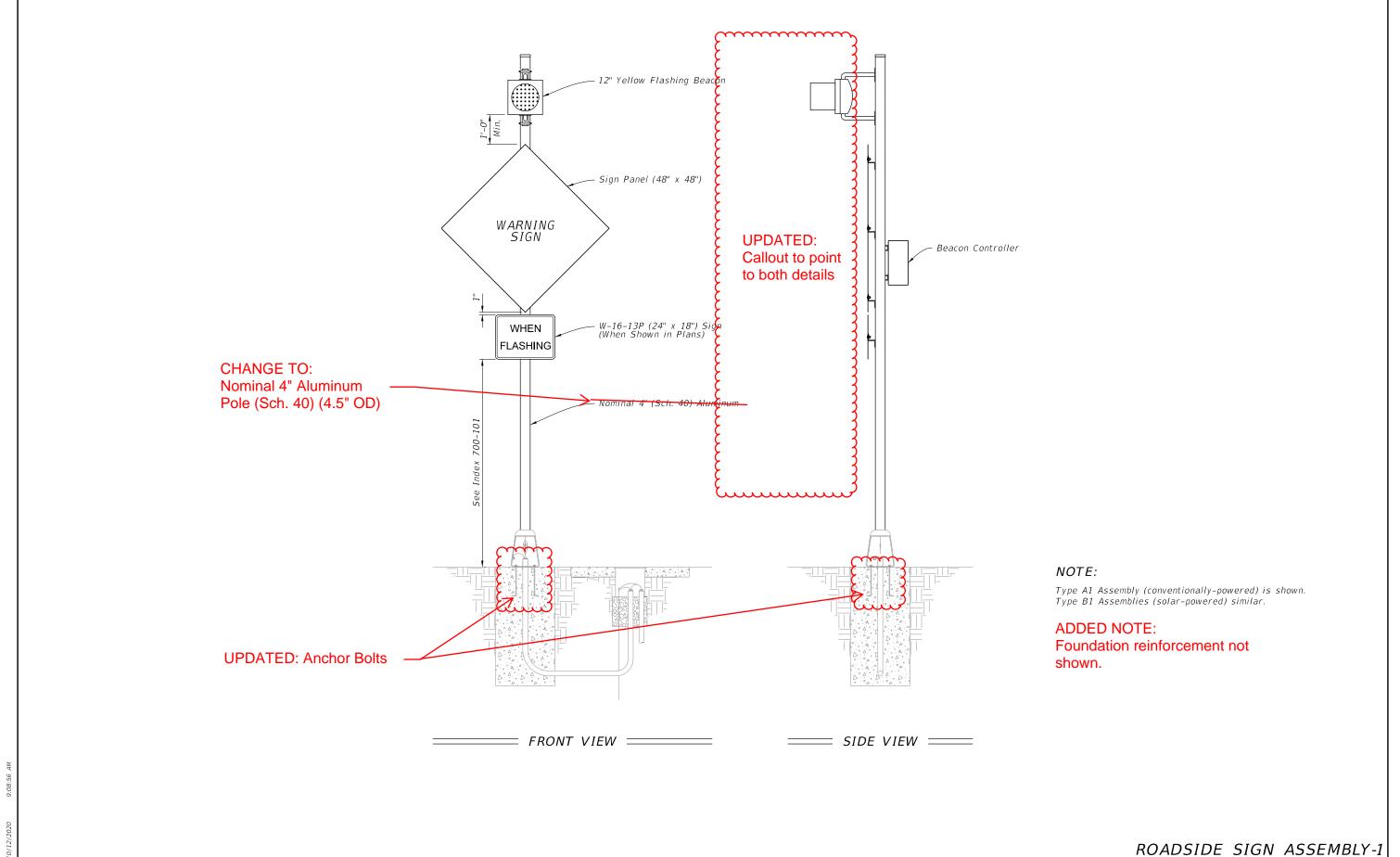
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CONDUIT, WIRING, AND FOUNDATION DETAILS

≥ DESCRIPTION: REVISION - 11/01/21 07/01/19

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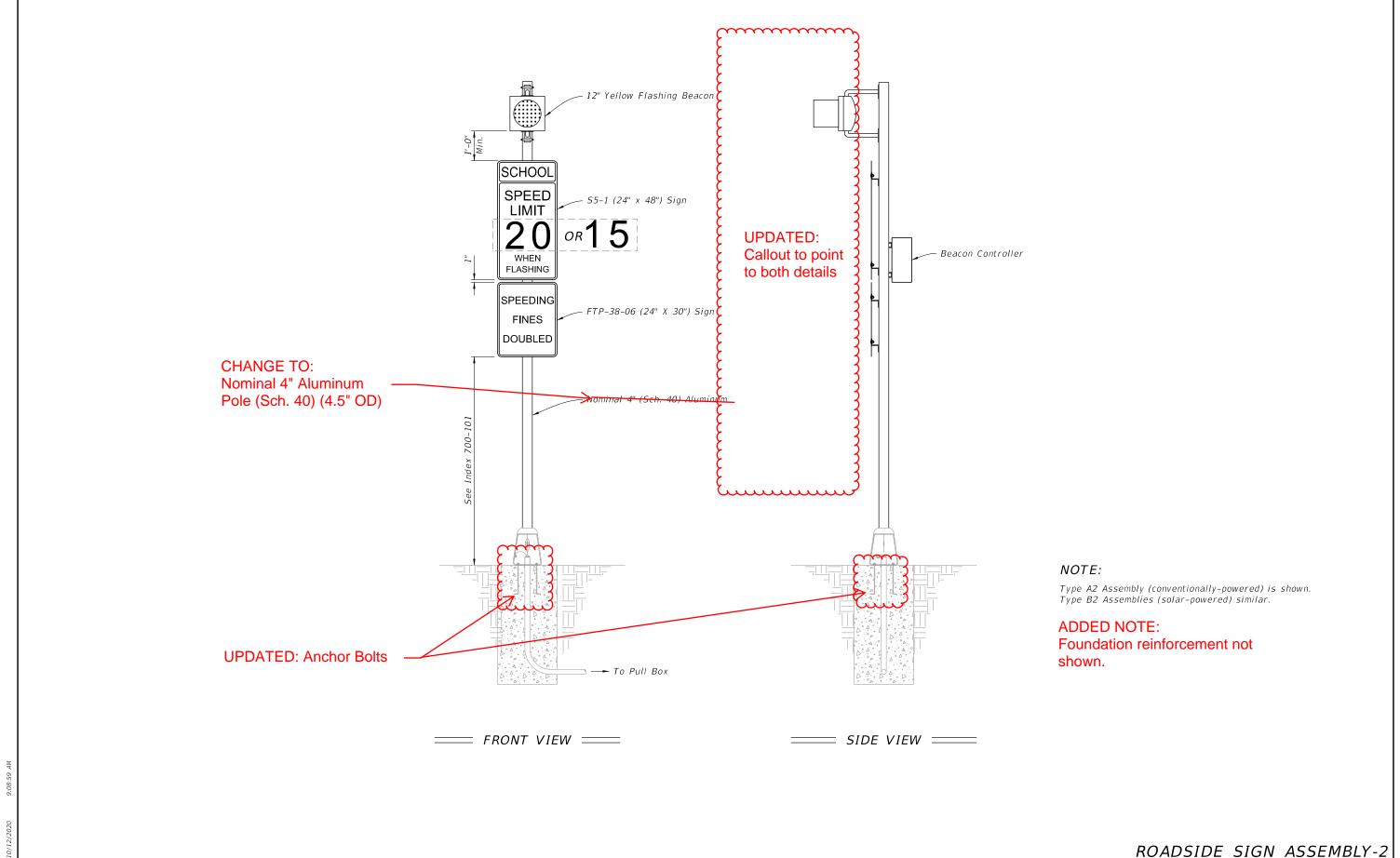
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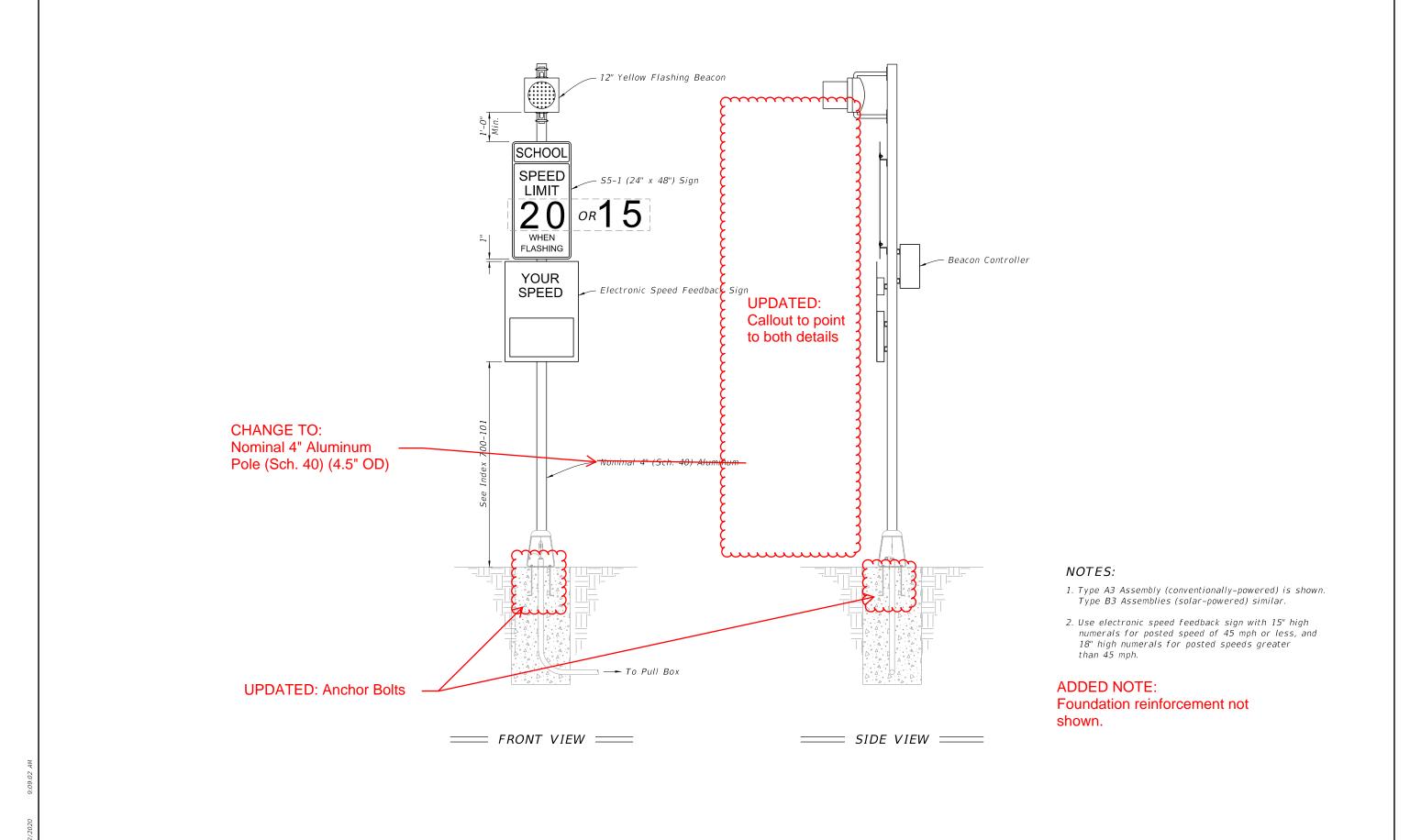


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ROADSIDE SIGN ASSEMBLY-3

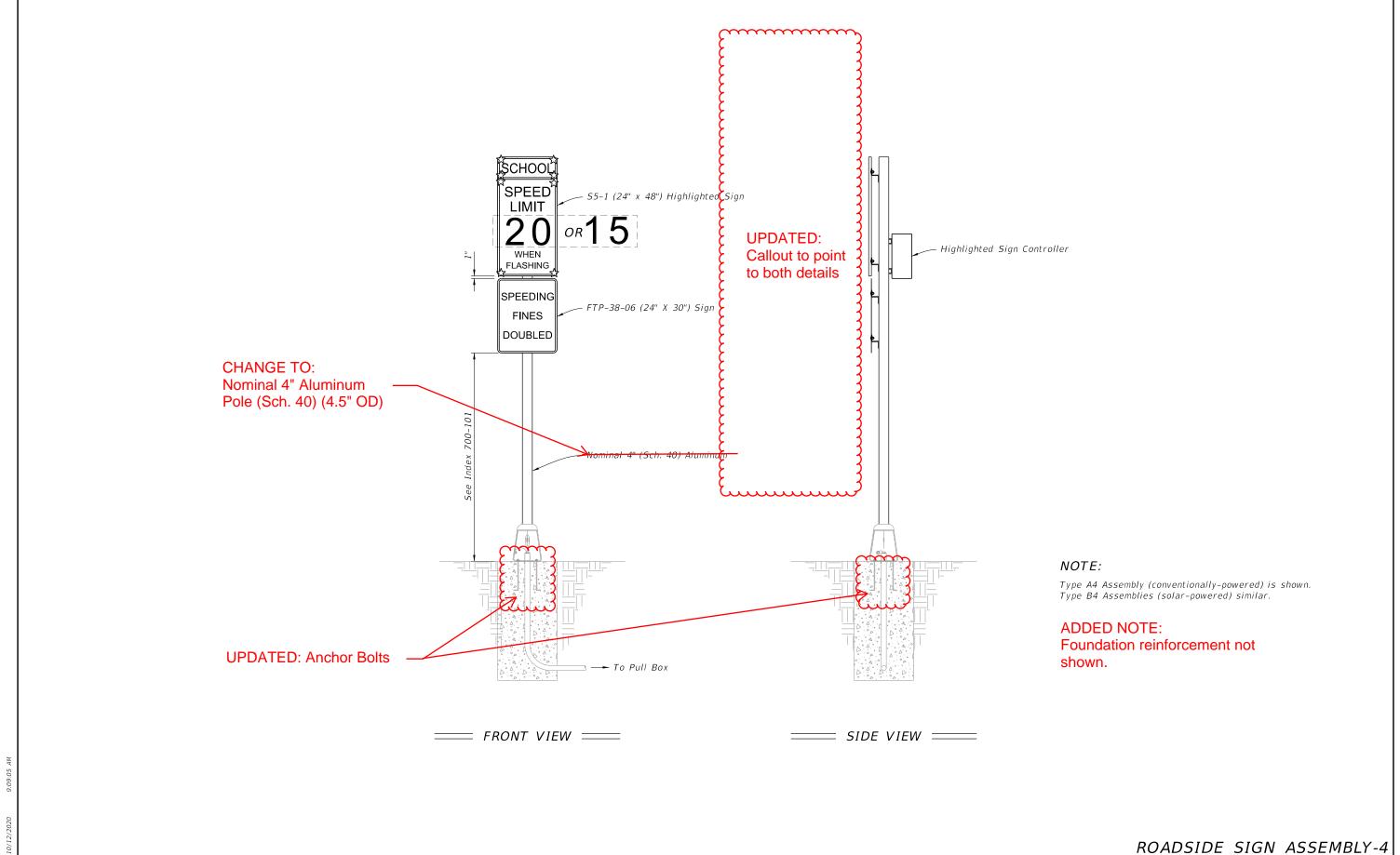
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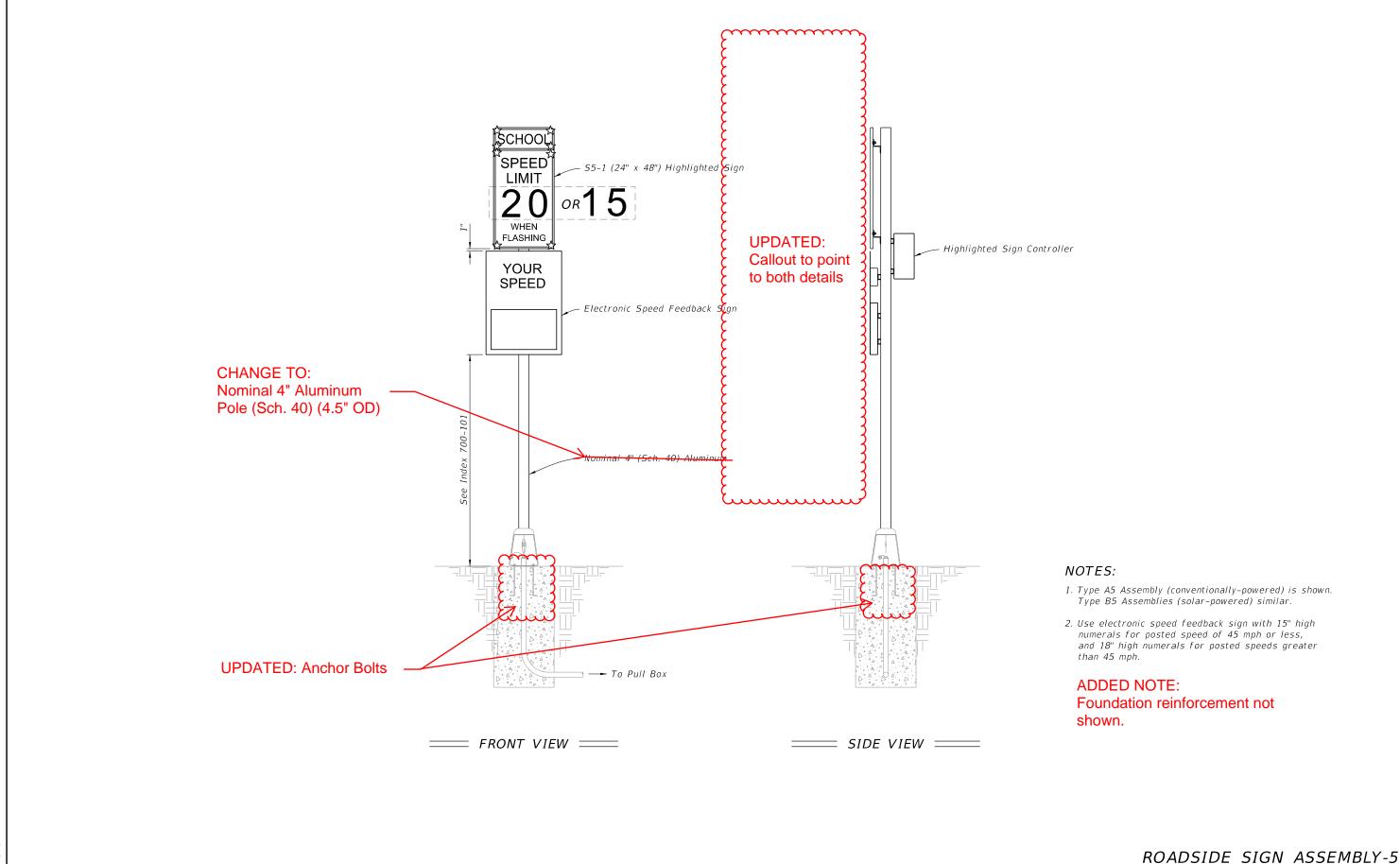
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≥ DESCRIPTION: REVISION - 11/01/21 07/01/19

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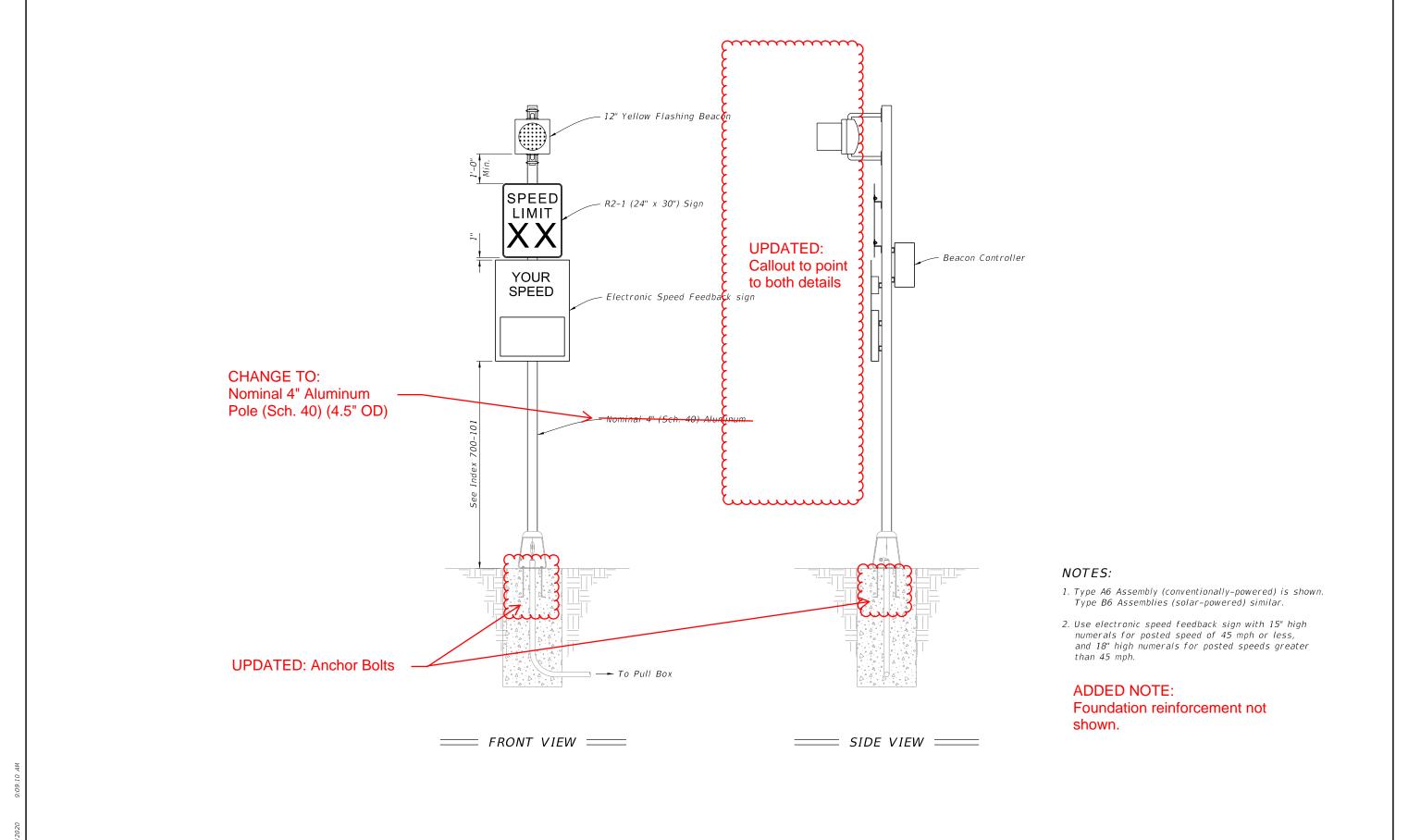


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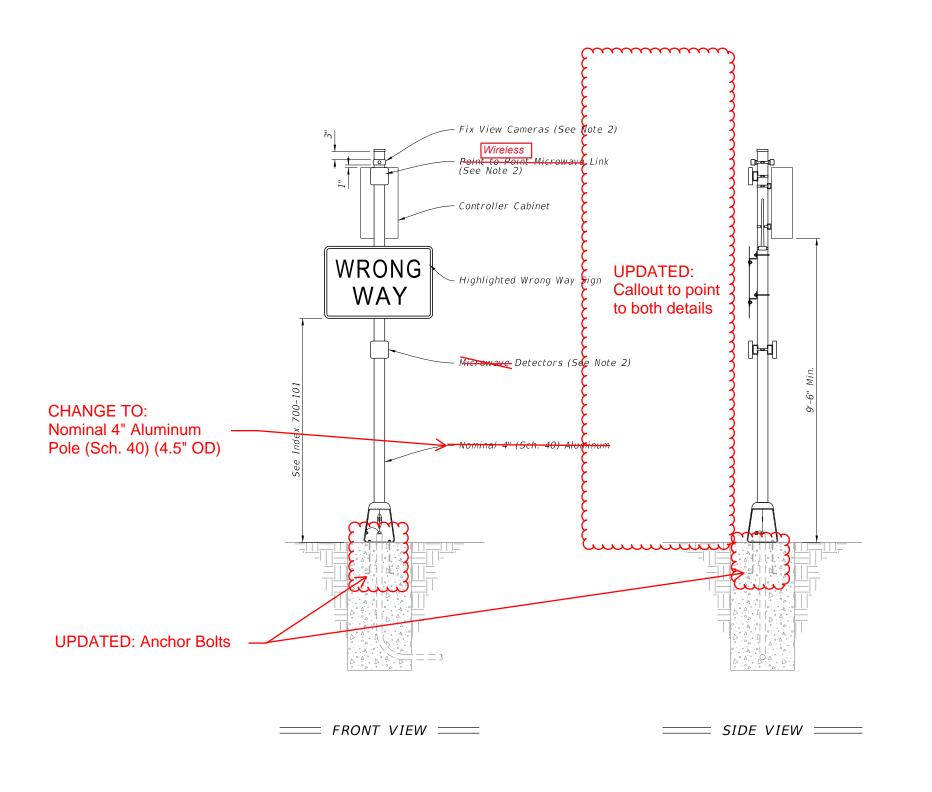
ROADSIDE SIGN ASSEMBLY-6

≥ DESCRIPTION: REVISION 07/01/19

FDOT

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SHEET 11



- 1. Type A7 Assembly (Conventionally-Powered) is shown.
- 2. Install cameras, point to microwave detectors, and antennas in accordance with the manufacturer's instructions.
- 3. For solar powered assemblies, install controller and batteries in the same ground mounted cabinet. Install a separate pole for mounting the solar panel. Install the solar panel pole and cabinet as close to the right of way boundary as possible. Orient solar panel to face South.

ADDED NOTE:

Foundation reinforcement not shown.

ROADSIDE SIGN ASSEMBLY-7

≥ DESCRIPTION: REVISION 11/01/21 11/01/20

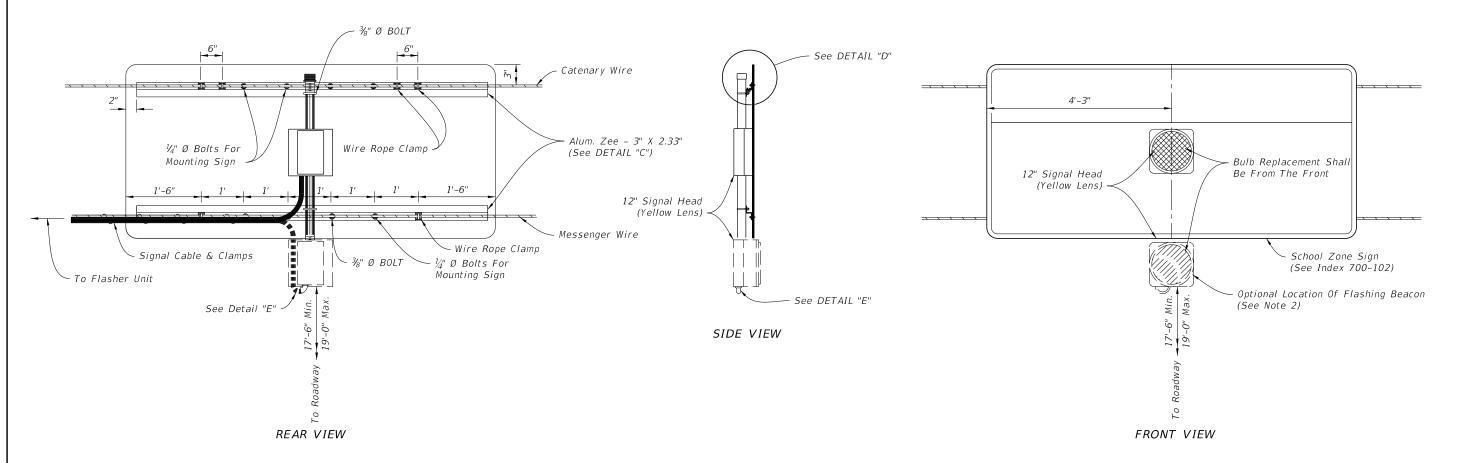
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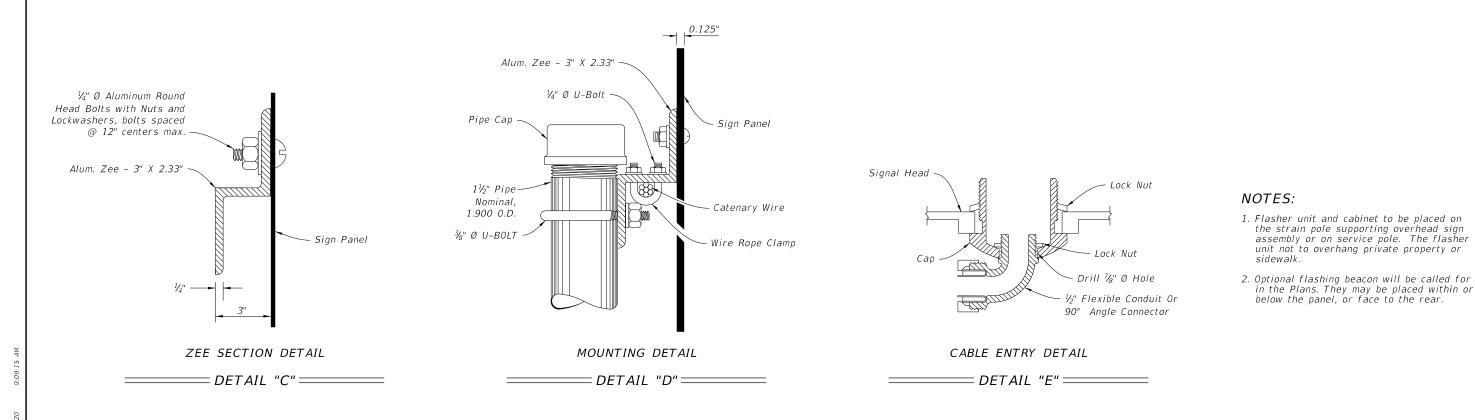
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NEW SHEET 10 Roadside Sign Assembly-7







OVERHEAD SIGN ASSEMBLY

DESCRIPTION: **REVISION** - 11/01/21 07/01/19

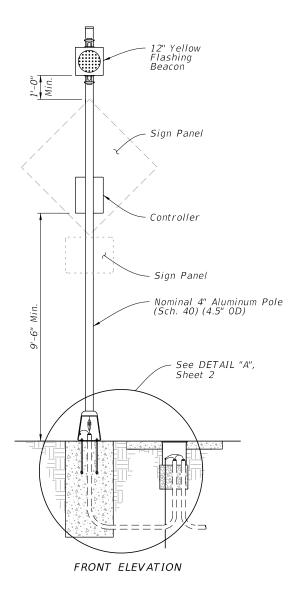
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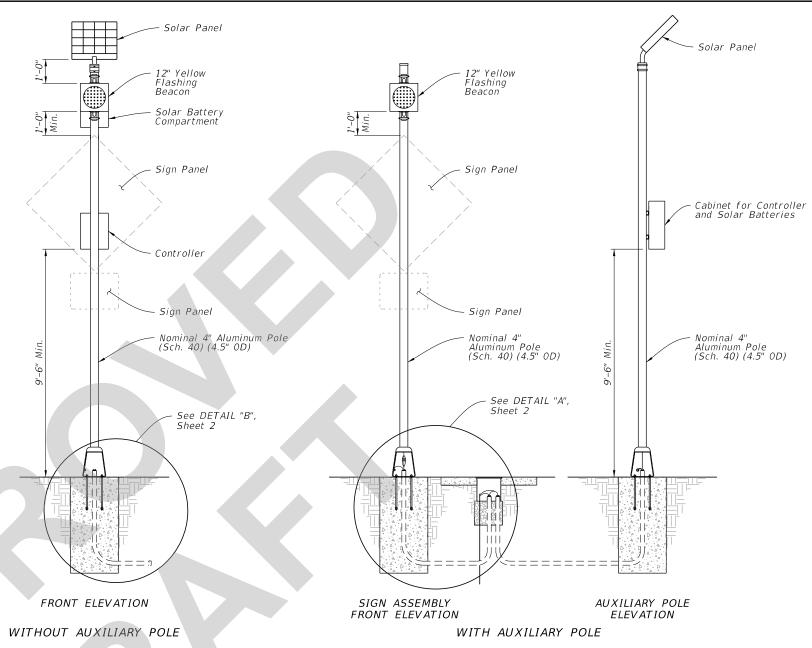
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GENERAL NOTES:

- 1. Install sign assemblies based on Alpha-Numeric Type designation shown in the Plans (e.g., Type A1). Assembly Type is based on Power Configuration 'Alpha' Identification shown above and Numerical Identification shown on Sheet 3 thru 8.
- 2. Install sign panel and wind beam in accordance with Index 700-010 and Specification 700.
- 3. Engage all threads on the transformer base and post unless the aluminum post is fully seated into base.
- 4. Meet the material requirements of Specification 646.
- 5. Install a concrete slab around all roadside assemblies on slopes 6:1 or greater. The minimum slab dimension is 6" by 4'-0" by 5'-0".
- 6. When wire entry holes are drilled in the sign column, use a bushing or rubber grommet to protect conductors.



POWER CONFIGURATION 'B' **SOLAR-POWERED**

(Type B1 Shown)

POWER CONFIGURATION 'B' NOTES:

- 1. Install a separate pole for mounting the solar panel, controller and batteries for all roadside assemblies with solar panels, controllers and batteries weighing more than 170 lbs.
- 2. Install the auxiliary pole as close to the right of way boundary
- 3. Install the auxiliary pole so that the height is the same as the column for the roadside assembly.
- 4. Orient solar panel to face South for optimal exposure to sunlight.
- 5. The controller and the solar batteries may be located in the same compartment.

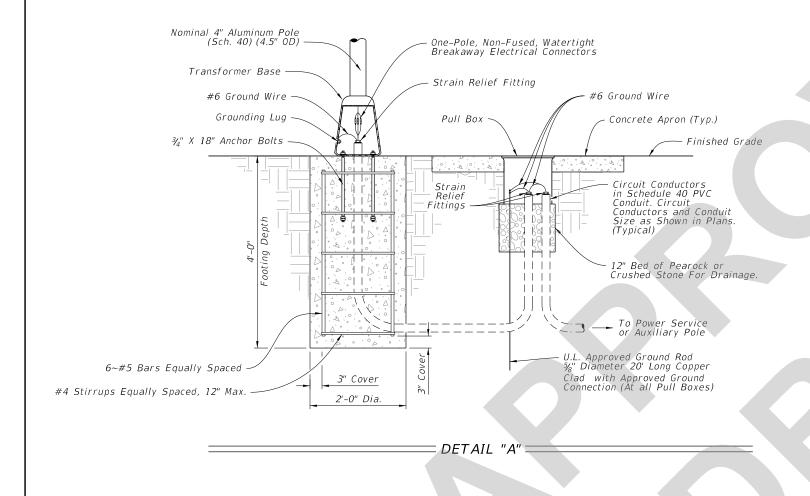
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7	Roadside Sign Assembly-5	
8	Roadside Sign Assembly-6	
9	Roadside Sign Assembly-7	
10	Roadside Sign Assembly-8	
11	Overhead Sign Assembly	

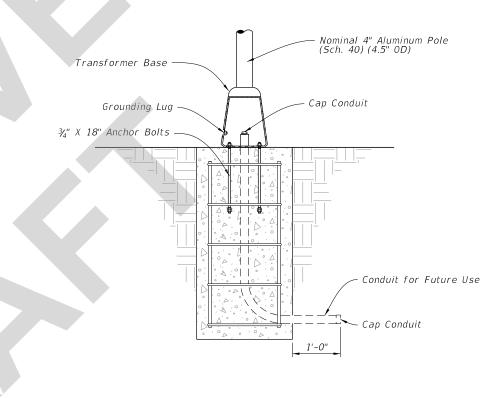
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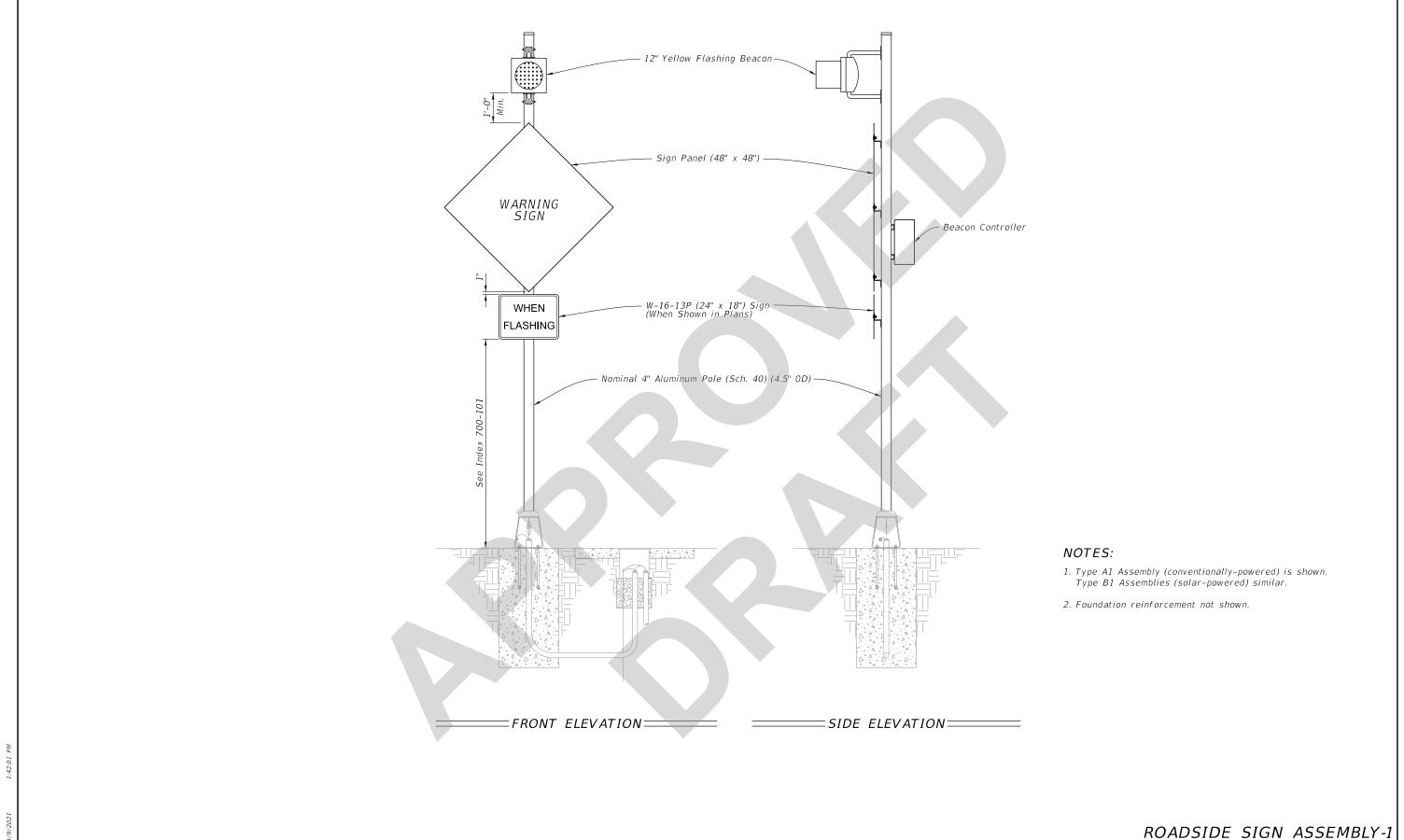
DETAIL "B" =

CONDUIT, WIRING, AND FOUNDATION DETAILS

REVISION 11/01/21

DESCRIPTION:

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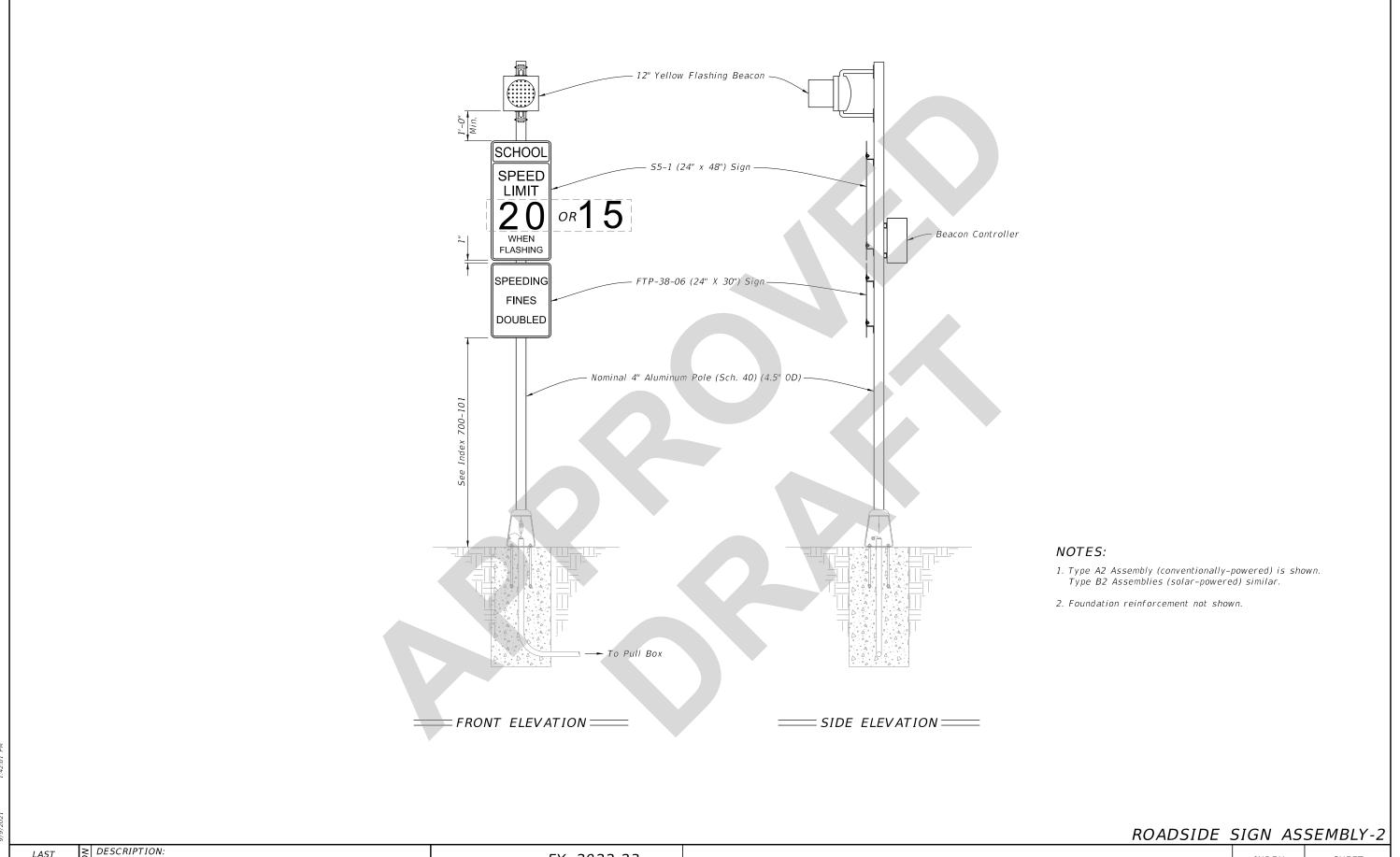
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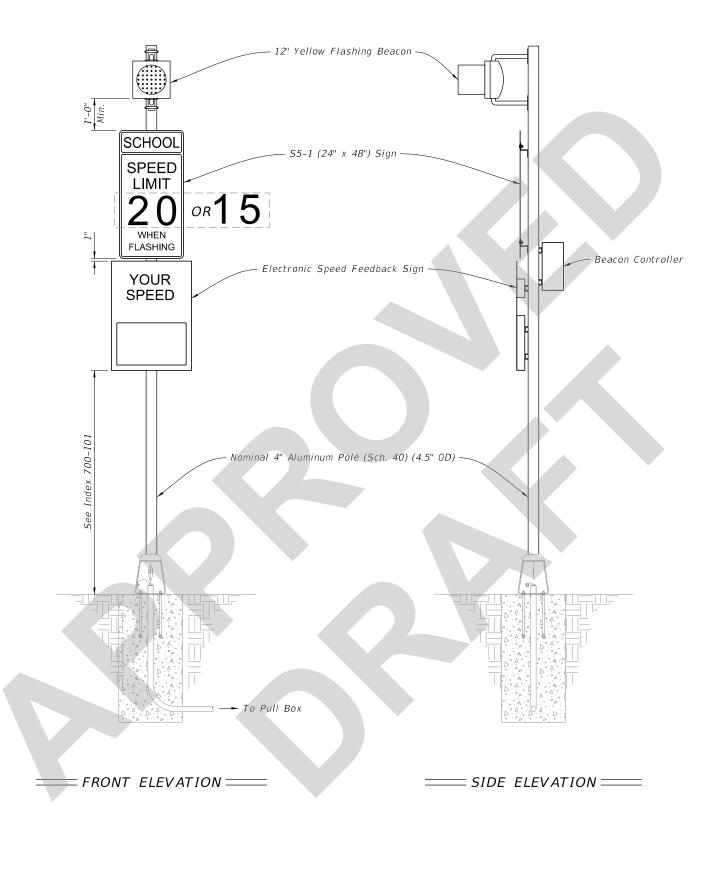
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LAST REVISION 11/01/21

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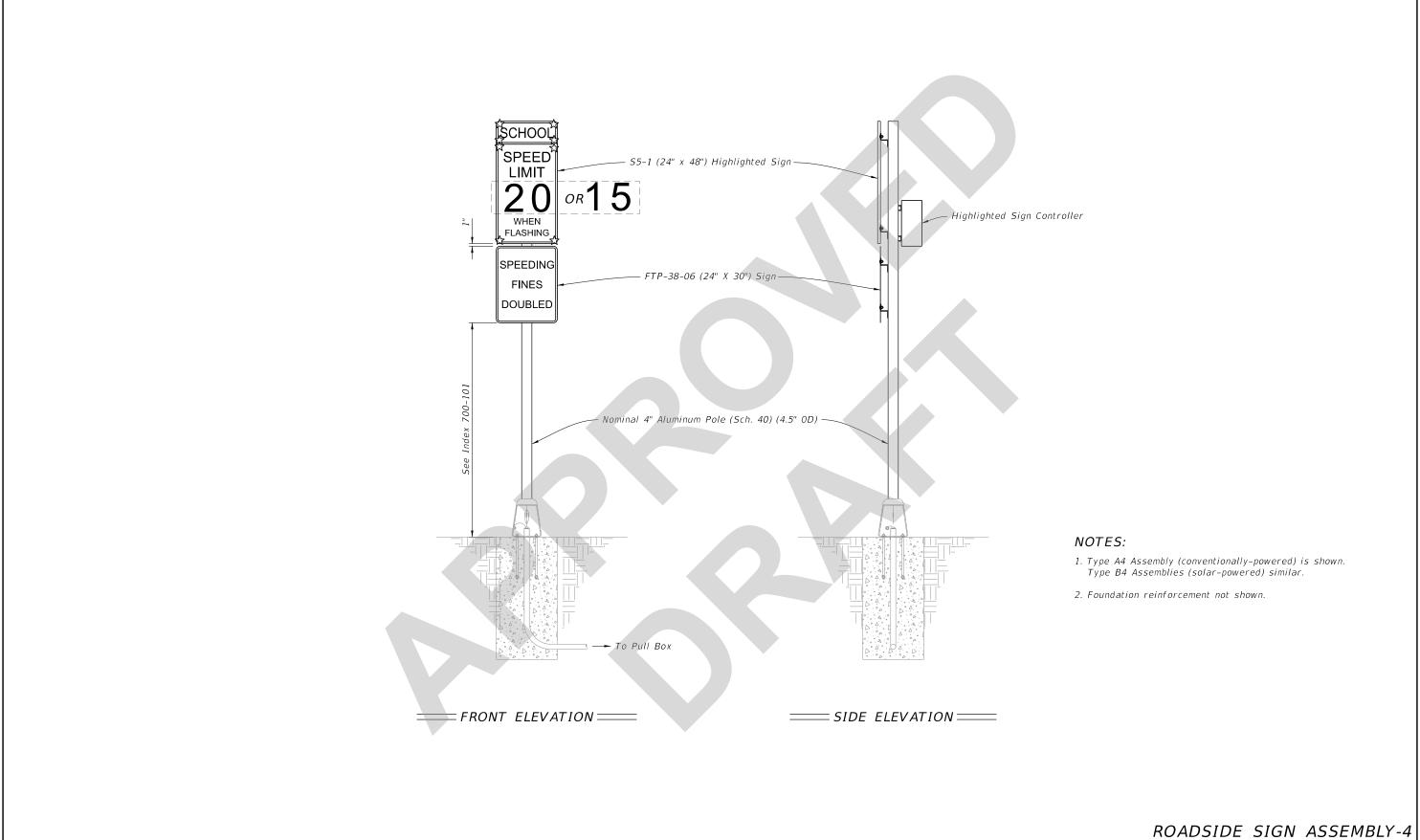
- 1. Type A3 Assembly (conventionally-powered) is shown. Type B3 Assemblies (solar-powered) similar.
- 2. Use electronic speed feedback sign with 15" high numerals for posted speed of 45 mph or less, and 18" high numerals for posted speeds greater than 45 mph.
- 3. Foundation reinforcement not shown.

ROADSIDE SIGN ASSEMBLY-3

LAST REVISION 11/01/21

DESCRIPTION:

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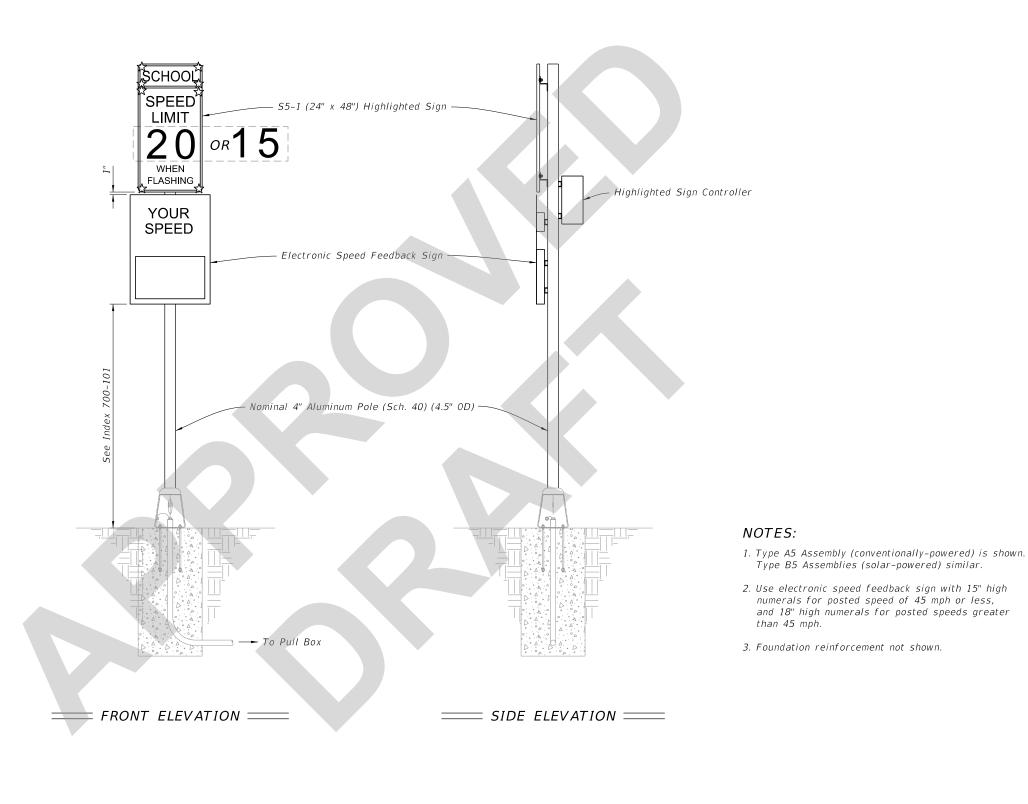
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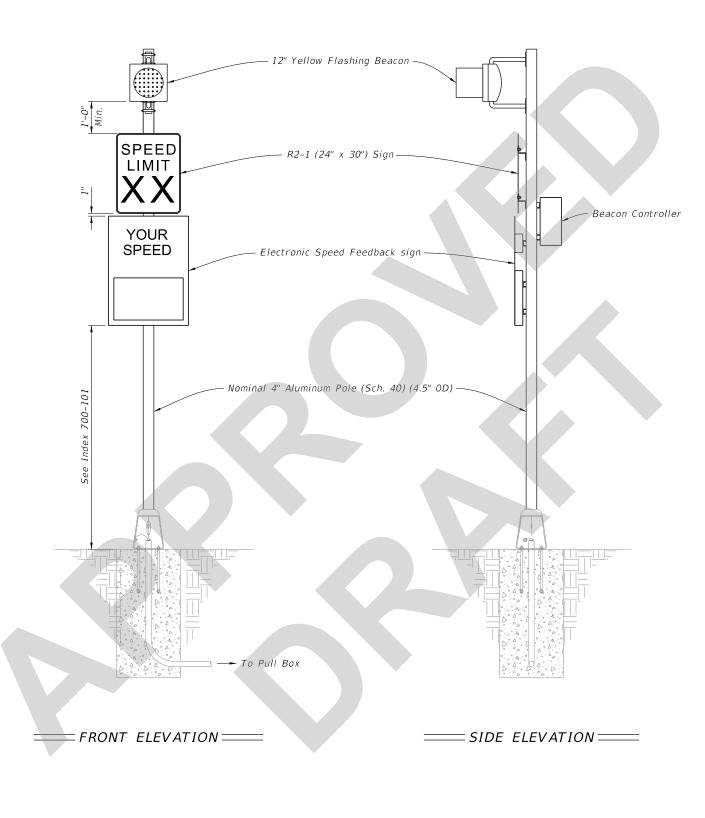
ROADSIDE SIGN ASSEMBLY-5

LAST ODESCRIPTION:
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FY 2022-23 STANDARD PLANS

SHEET



- 1. Type A6 Assembly (conventionally-powered) is shown. Type B6 Assemblies (solar-powered) similar.
- 2. Use electronic speed feedback sign with 15" high numerals for posted speed of 45 mph or less, and 18" high numerals for posted speeds greater than 45 mph.
- 3. Foundation reinforcement not shown.

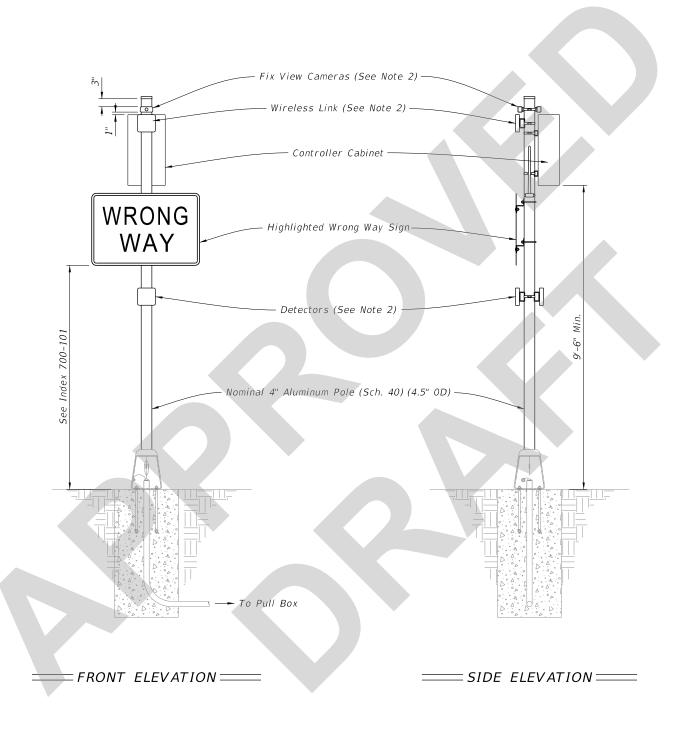
ROADSIDE SIGN ASSEMBLY-6

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11/01/21

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FY 2022-23 STANDARD PLANS

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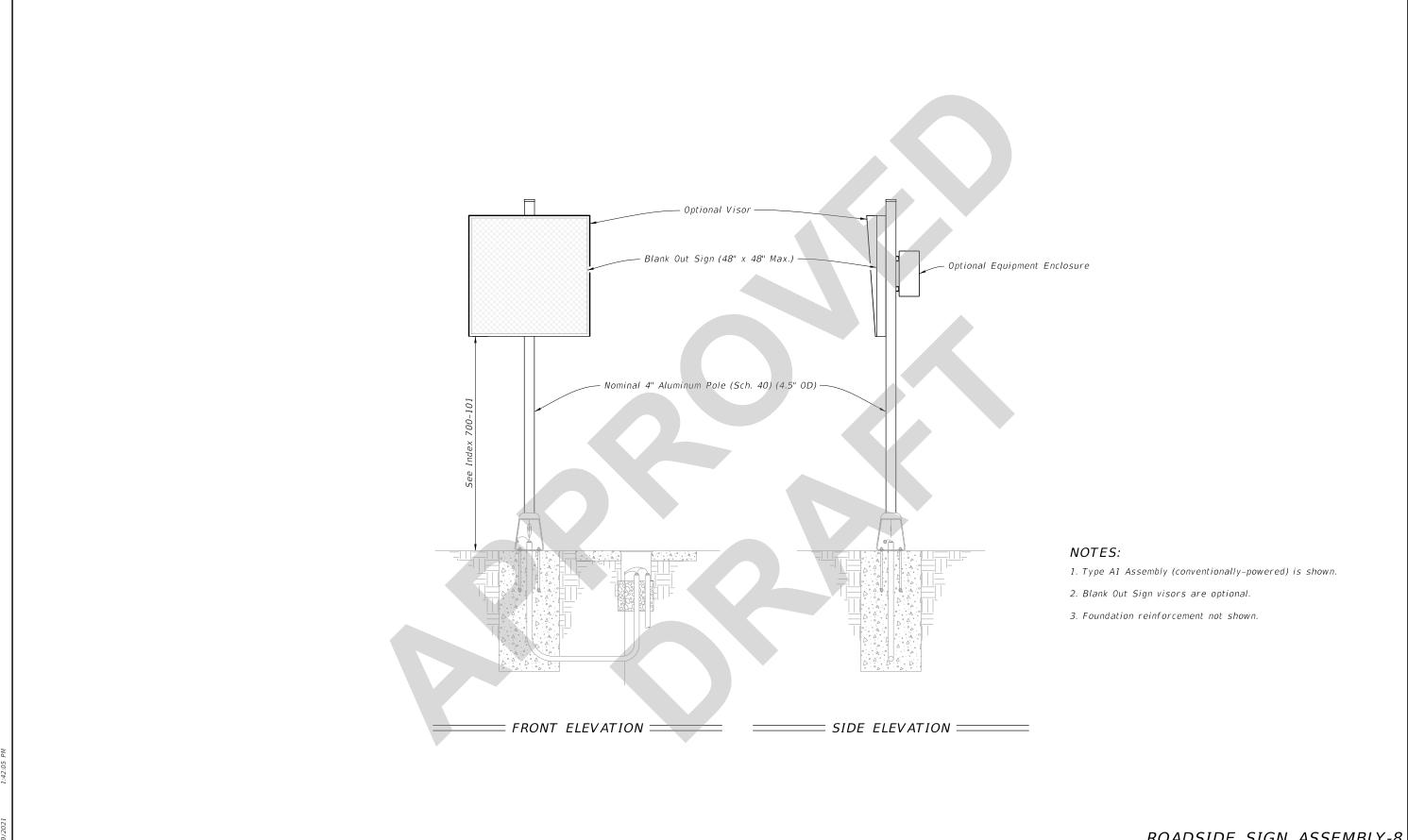


- 1. Type A7 Assembly (Conventionally-Powered) is shown.
- 2. Install cameras, wireless link, detectors, and antennas in accordance with the manufacturer's instructions.
- 3. For solar powered assemblies, install controller and batteries in the same ground mounted cabinet. Install a separate pole for mounting the solar panel. Install the solar panel pole and cabinet as close to the right of way boundary as possible. Orient solar panel to face South.
- 4. Foundation reinforcement not shown.

ROADSIDE SIGN ASSEMBLY-7

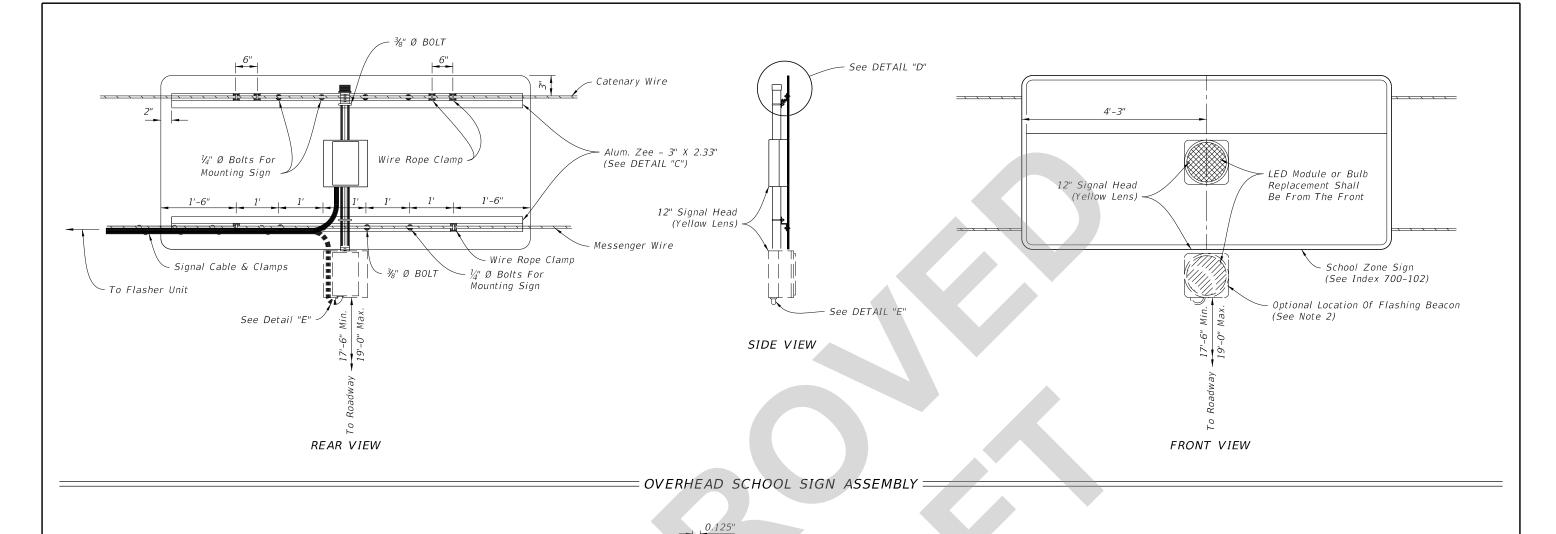
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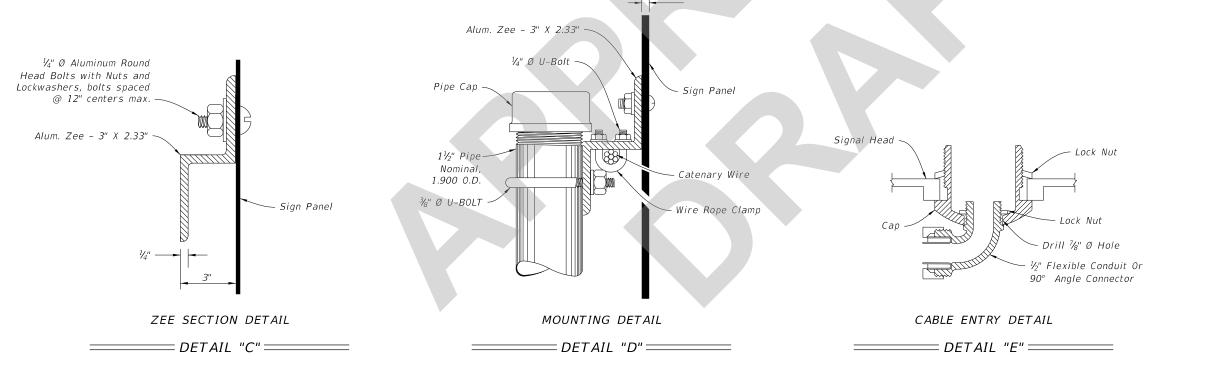
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ROADSIDE SIGN ASSEMBLY-8

≥ DESCRIPTION: LAST REVISION 11/01/21





- 1. Flasher unit and cabinet to be placed on the strain pole supporting overhead sign assembly or on service pole. The flasher unit not to overhang private property or sidewalk.
- 2. Optional flashing beacon will be called for in the Plans. They may be placed within or below the panel, or face to the rear.

OVERHEAD SIGN ASSEMBLY

REVISION 11/01/21

DESCRIPTION:

FDOT

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ENHANCED HIGHWAY SIGNING ASSEMBLIES

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