

Origination Form
Proposed Revisions to a Standard Plans Index

Originator:	Meyer, Ronald and Lemus, Vivian	Index Number:	700-120
Date:	6/22/2026	Sheet Number(s):	1,2,5,6,7
E-mail:	Ronald.Meyer@dot.state.fl.us	Index Title:	ENHANCED HIGHWAY SIGNING ASSEMBLIES

Summary of the changes:

All Sheets: Renumbered.

Sheet 1: Updated the Table of Contents.

Sheet 2: Updated electrical component in Detail "A"

Sheet 5: Deleted dimensions for S5-1 and FTP-021-25; Changed the speed limits from "20 or 15" to "XX" to match figures in upcoming release of Speed Zoning Manual.

Sheet 6: Deleted Sheet - MUTCD guidance has changed regarding use of speed feedback devices.

Sheet 7 (New Sheet 6): Added "(As Required)" to the 12" Yellow Flashing Beacon callout; Deleted dimensions for R2-1; Updated the "Electronic Speed Feedback Sign" to "W13-20aP Vehicle Speed Feedback Plaque; Updated the "Your Speed" sign to match the shape and size of the W13-20aP Vehicle Speed Feedback plaque as required and shown in the latest MUTCD; Changed Note 2 - "Install the Vehicle Speed Feedback Plaque in accordance with Specification 700 and 995".

Commentary/Background:

Sheet 2 - To improve the electrical safety and operational reliability of Enhanced Highway Signing Assemblies. The change reduces the likelihood of energized conductors being exposed after a knockdown event, minimizes equipment damage, and enhances overall system safety.

Sheet 5 - should be updated to remove specific dimensions for S5-1 and FTP-021-25 and clarify that speed limits can be other than 20 or 15 as appropriate (recommend changing to "XX" to match figures in upcoming release of Speed Zoning Manual); Added Callout "S4-3P Sign".

Sheet 6 - must be deleted because MUTCD guidance has changed regarding use of speed feedback devices. In addition, due to statutory requirements to include a "SPEEDING FINES DOUBLED" plaque (FTP-021-25), there cannot also be a speed feedback device on the assembly. School zone signs with flashing beacons must comply with 700-120, Sheet 5 (i.e., FTP-021-25 mounted directly below the school zone speed limit sign).

Sheet 7 - (New Sheet 6) must be updated to better match the shape and size of the W13-20aP plaque as required and shown in the latest MUTCD. The TERL has been in contact with speed feedback sign vendors listed on the APL regarding both standalone signs and plaques. Vendors are aware of the MUTCD changes and their need to comply with MUTCD requirements to have products listed on the APL. Note 2 - reflect the reference to SHS and MUTCD

Other Affected Documents/Offices	Person Contacted	Affected (Yes/No)
Other Standard Plans		No
FDOT Design Manual		No
Standard Specifications	Daniel Strickland	Yes
Basis of Estimates Manual		No
Approved Product List	The TERL has already been coordinating with APL vendors.	Yes
Construction Office		No
Maintenance Office		No

Implementation
["FY-Standard Plans (Next Release)"]

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9	Roadside Sign Assembly-7
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11	Roadside Sign Assembly-9
12	Overhead Sign Assembly

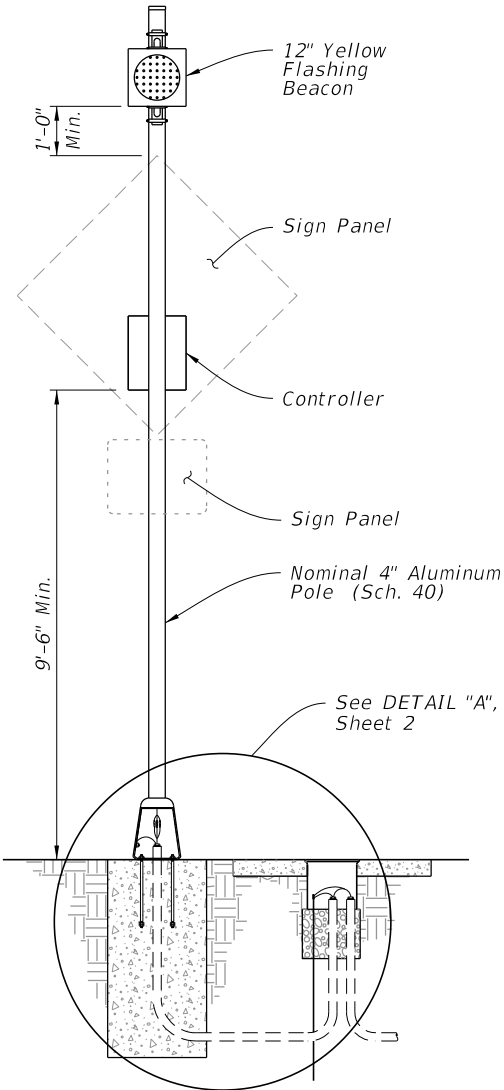
UPDATED Table of Contents

GENERAL NOTES:

1. Meet the requirements of Specifications 646 and 700.
2. Engage all threads on the transformer base and post unless the aluminum post is fully seated into base.
3. 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".
4. When wire entry holes are drilled in the sign column, use a bushing or rubber grommet to protect conductors.

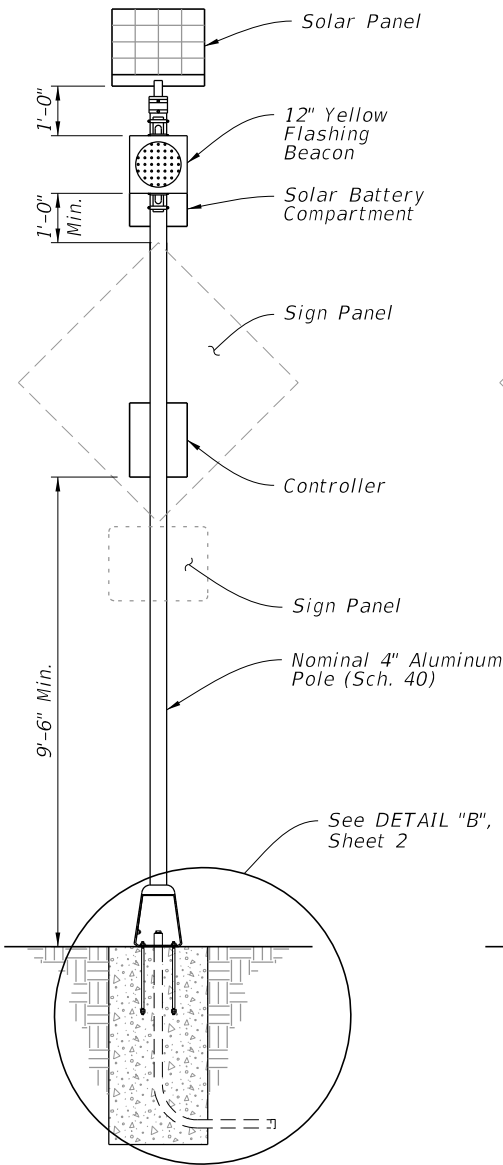
POWER CONFIGURATION 'B' NOTES:

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 as possible.
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.



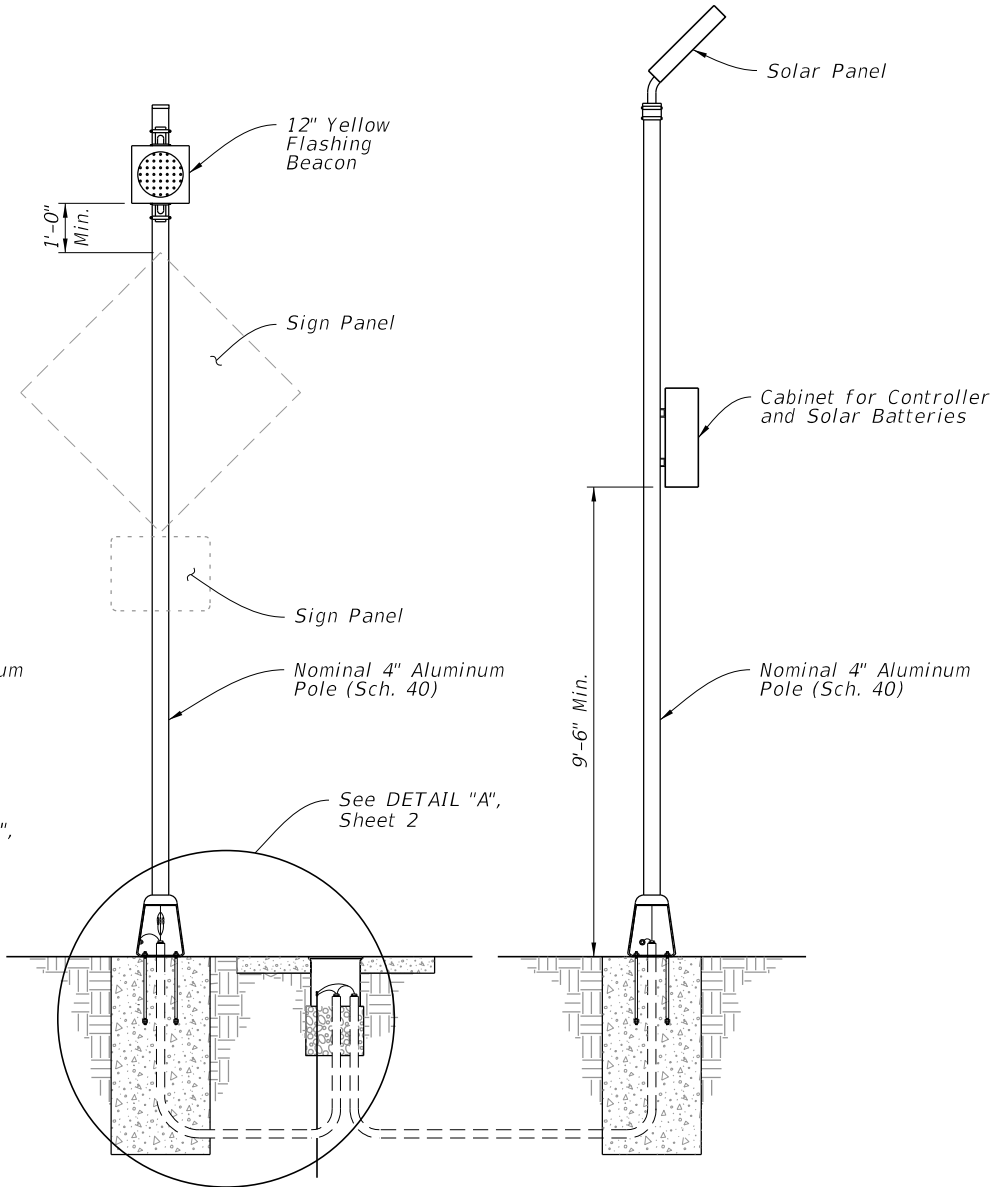
FRONT ELEVATION

POWER CONFIGURATION 'A'
CONVENTIONALLY POWERED
(Type A1 Shown)



FRONT ELEVATION

WITHOUT AUXILIARY POLE



SIGN ASSEMBLY
FRONT ELEVATION

POWER CONFIGURATION 'B'
SOLAR POWERED
(Type B1 Shown)

AUXILIARY POLE
ELEVATION

WITH AUXILIARY POLE

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FY 2026-27
STANDARD PLANS

ENHANCED HIGHWAY SIGNING ASSEMBLIES

INDEX
700-120

SHEET
~~101~~ 13

LAST REVISION	DESCRIPTION:
11/01/24	

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al)

(Sch. 40)

Transformer Base

#6 Ground Wire

Grounding Lug

$\frac{3}{4}$ " X 18" Anchor Bolts

4'-0" Footing Depth

Equally Spaced

Spaced, 12" Max.

3" Cover

2'-0" Dia.

3" Cover

~~One Pole, Non Fused, Watertight Breakaway Electrical Connectors~~

Strain Relief Fitting

Pull Box

Strain Relief Fittings

#6 Ground Wire

Concrete Apron (Typ.)

Finished Grade

Circuit Conductors in Schedule 40 PVC Conduit. Circuit Conductors and Conduit Size as Shown in Plans. (Typical)

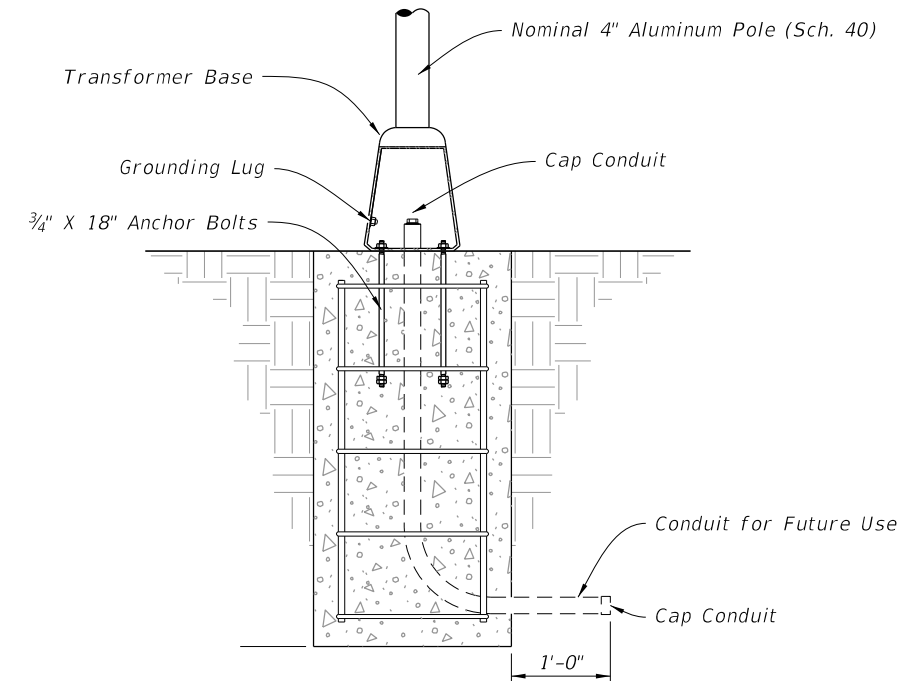
12" Bed of Pearrock or Crushed Stone For Drainage.

To Power Service or Auxiliary Pole

U.L. Approved Ground Rod $\frac{5}{8}$ " Diameter 20' Long Copper Clad with Approved Ground Connection (At all Pull Boxes)

DETAIL "A"

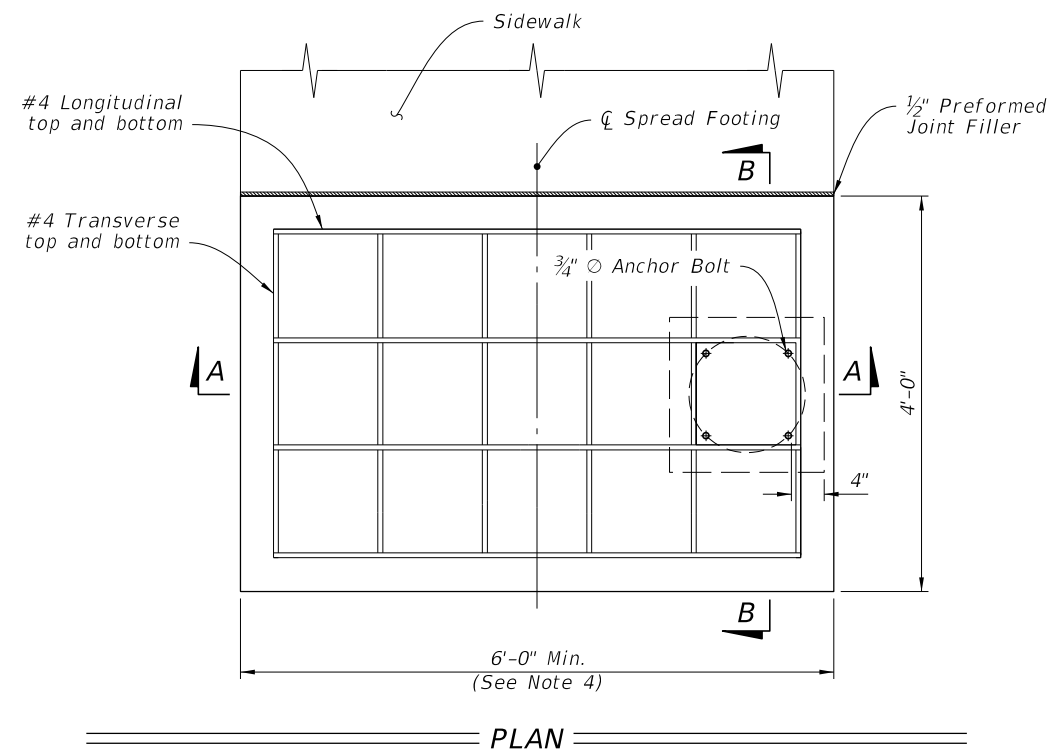
~~One Pole, Non Fused, Watertight Breakaway Electrical Connectors~~



DETAIL "B"

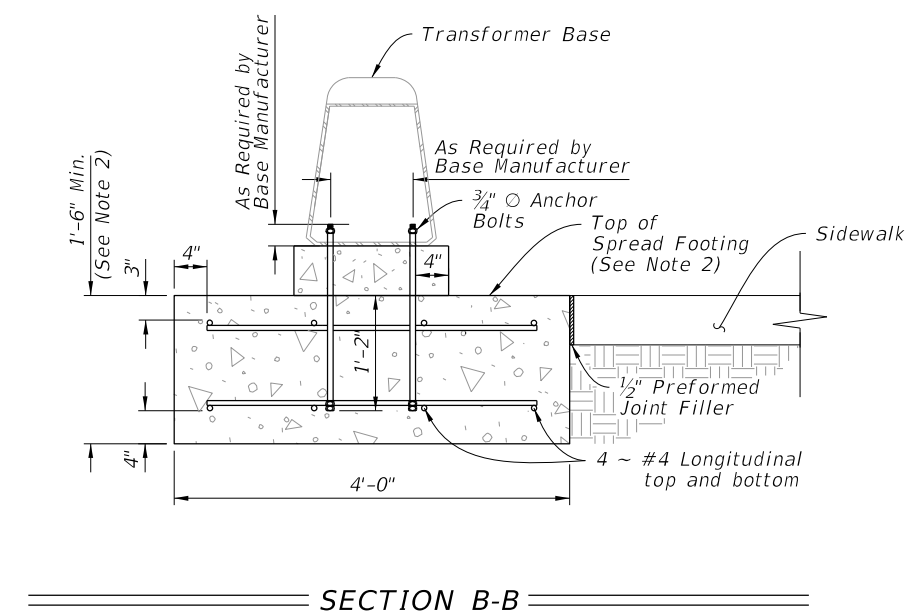
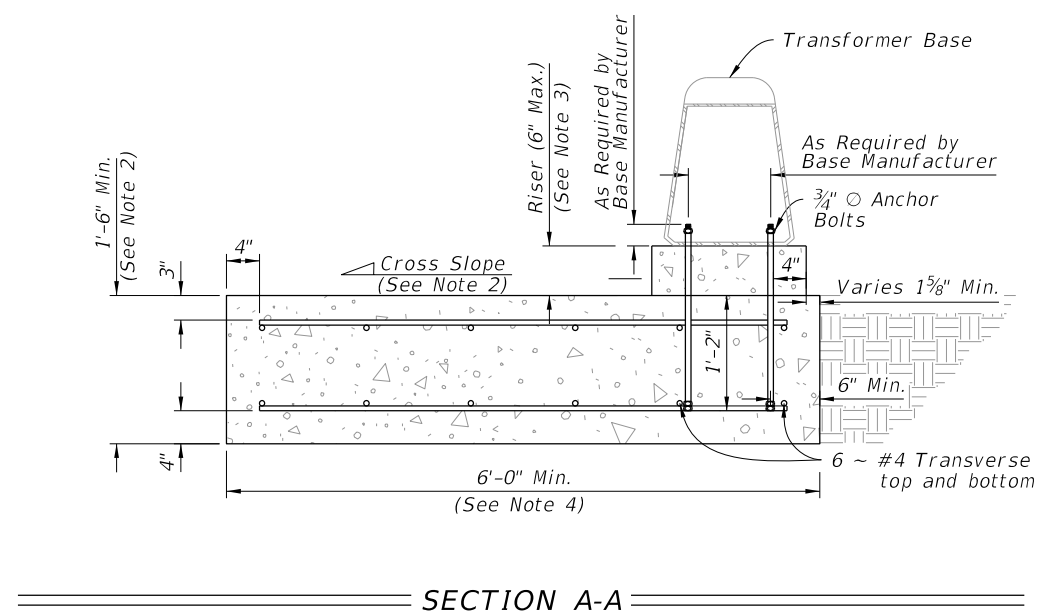
CONDUIT, WIRING, AND FOUNDATION DETAILS

LAST REVISION 11/01/24	DESCRIPTION:  FY 2026-27 STANDARD PLANS	ENHANCED HIGHWAY SIGNING ASSEMBLIES	INDEX 700-120	SHEET 2 of 13
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NOTES:

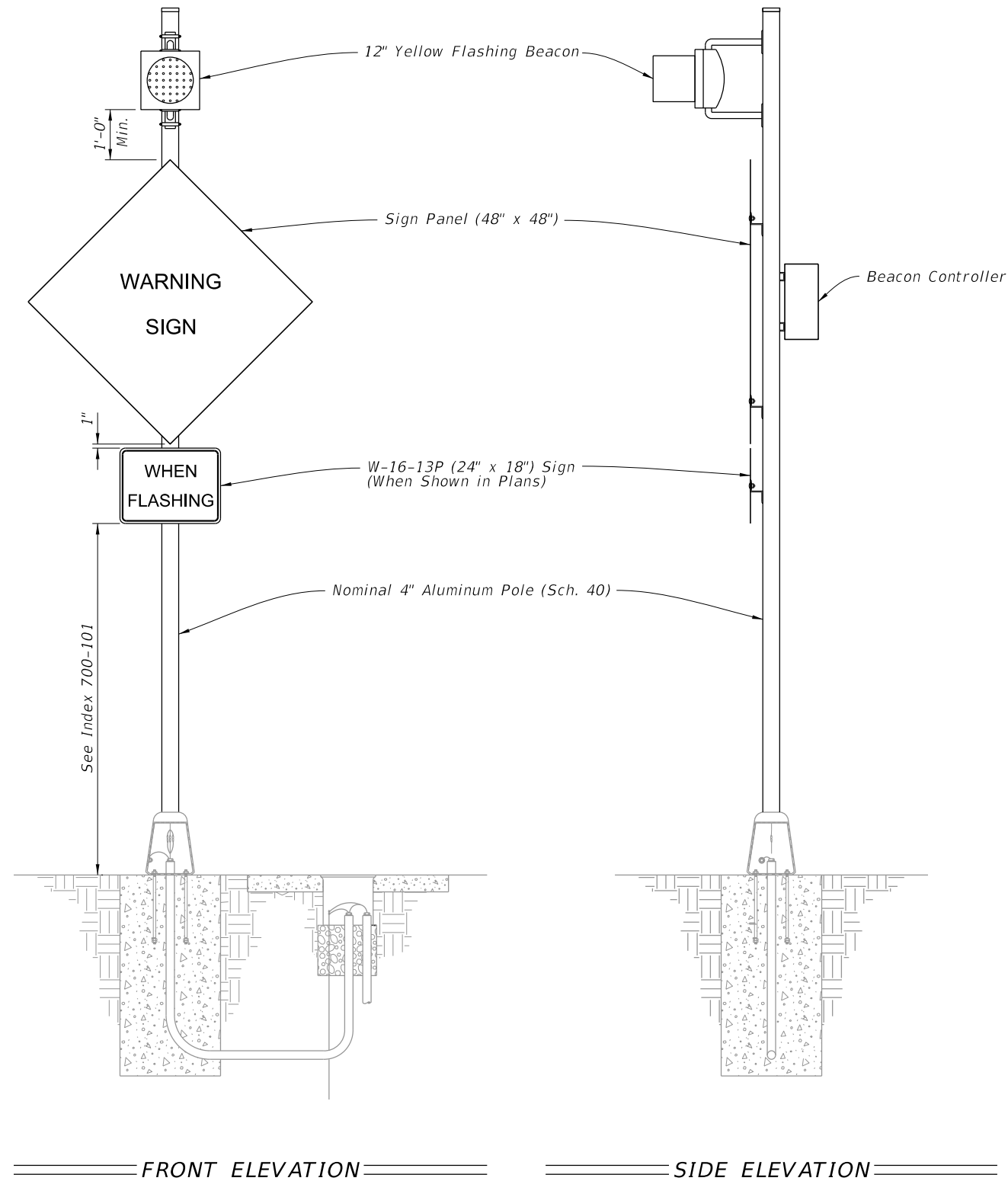
1. *Install the Spread Footing Foundation only where called for in the Plans.*
2. *SIDEWALK:*
 - a. *When abutting sidewalk, match the cross slope of the adjacent sidewalk or curb ramp where applicable. Maintain the minimum depth of footing.*
 - b. *$\frac{1}{2}$ " expansion preformed joint filler required between sidewalk and spread footing.*
 - c. *Apply concrete surface finish to the top of the spread footing in accordance with Specification 522-7.*
 - d. *Sidewalk placed on the other side or both sides of the spread footing is permitted where shown in the Plans.*
3. *Only use concrete riser when installed in-line with sidewalk curb that results in a drop off to the adjacent sidewalk.*
4. *For sidewalks greater than 6', match sidewalk width. Add one #4 transverse bar, top and bottom, per additional foot of spread footing to maintain at minimum the same reinforcement area per foot.*
5. *Base location can vary on spread footing. Location shown in Plans.*



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~~SPREAD FOOTING FOUNDATION~~

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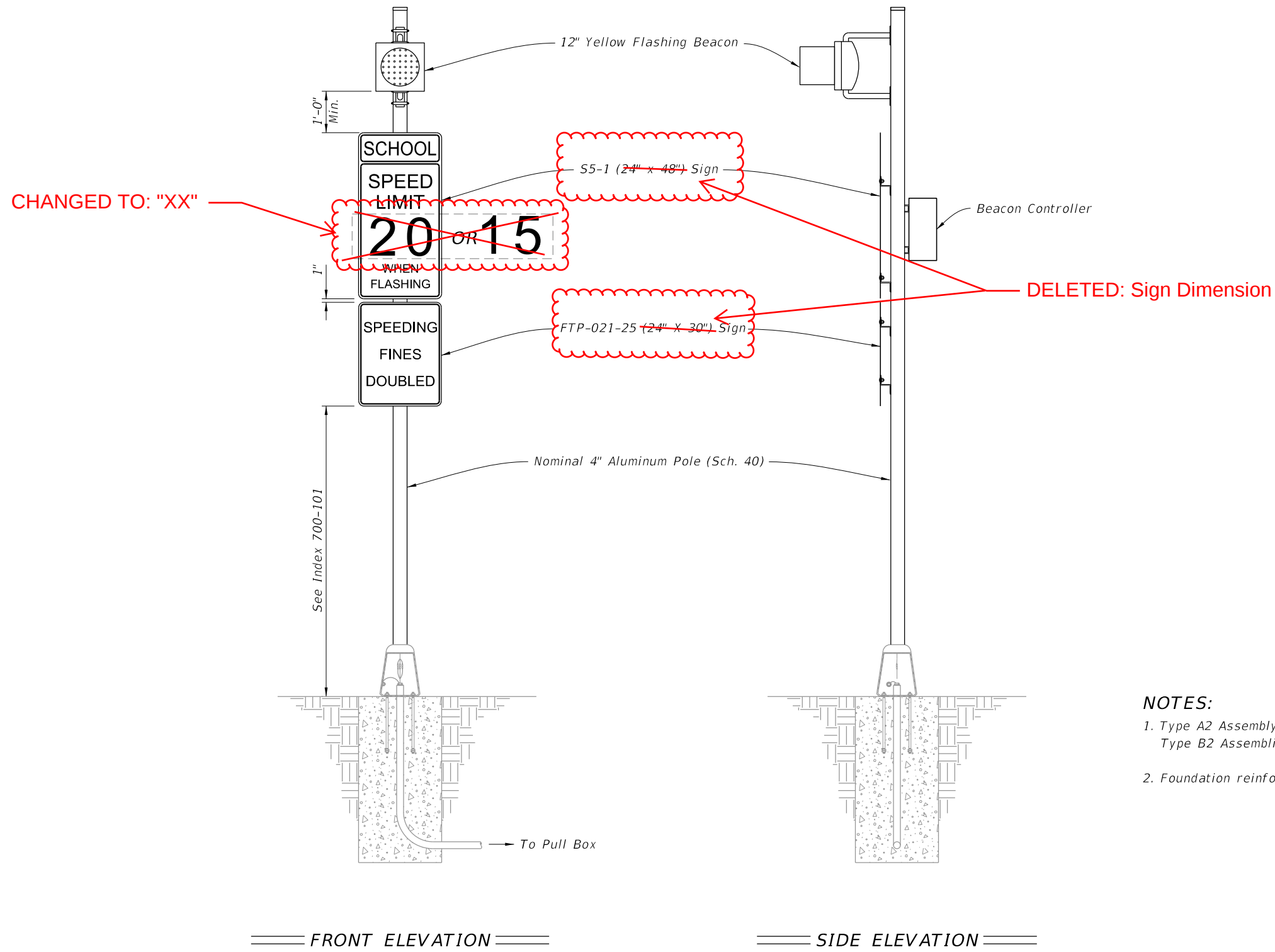
NOTES:

1. Type A1 Assembly (conventionally powered) is shown.
Type B1 Assemblies (solar powered) similar.
2. Foundation reinforcement not shown.

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ROADSIDE SIGN ASSEMBLY-1

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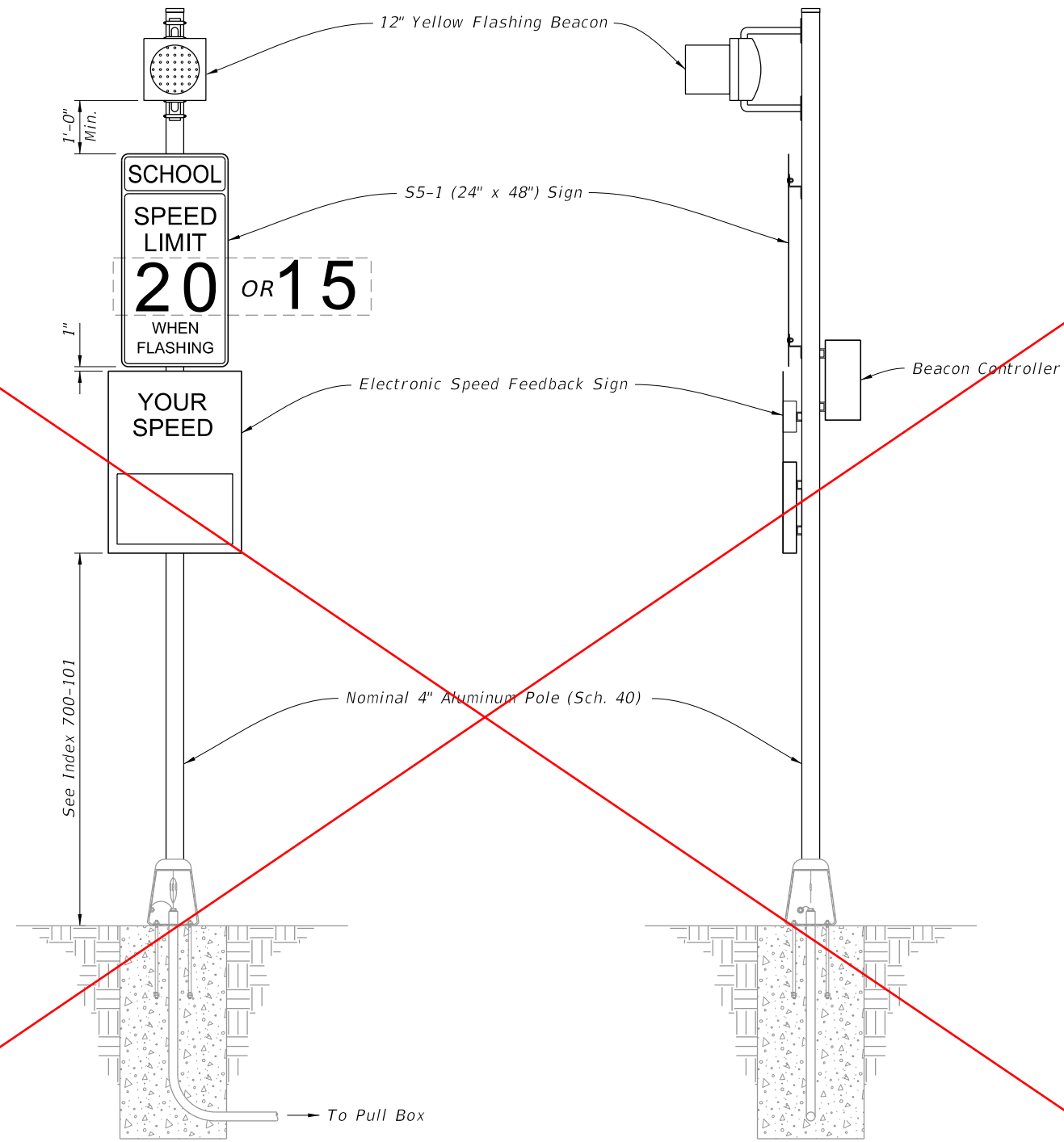


NOTES:

1. Type A2 Assembly (conventionally powered) is shown.
Type B2 Assemblies (solar powered) similar.
2. Foundation reinforcement not shown.

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FRONT ELEVATION

SIDE ELEVATION

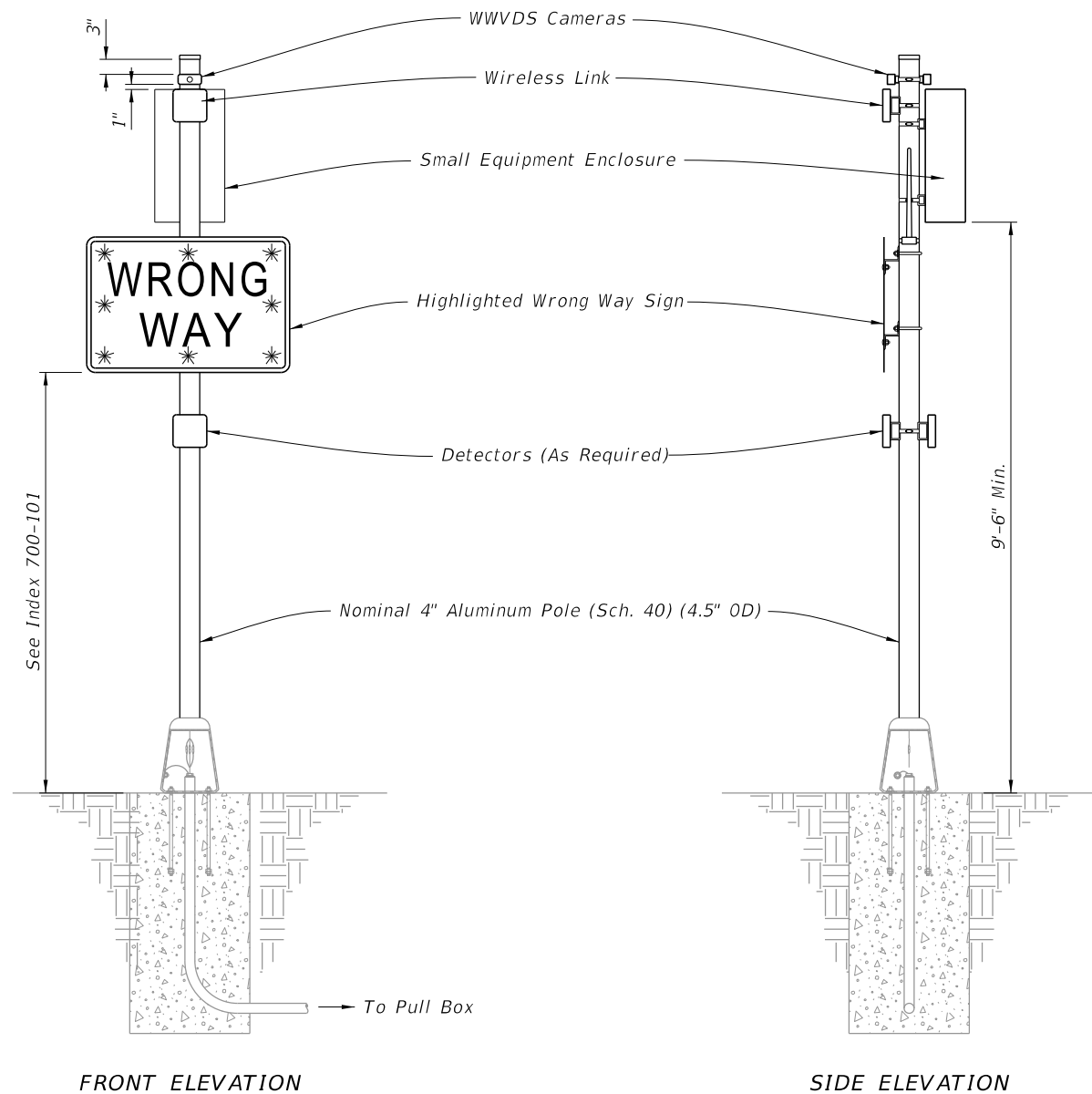
NOTES:

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.

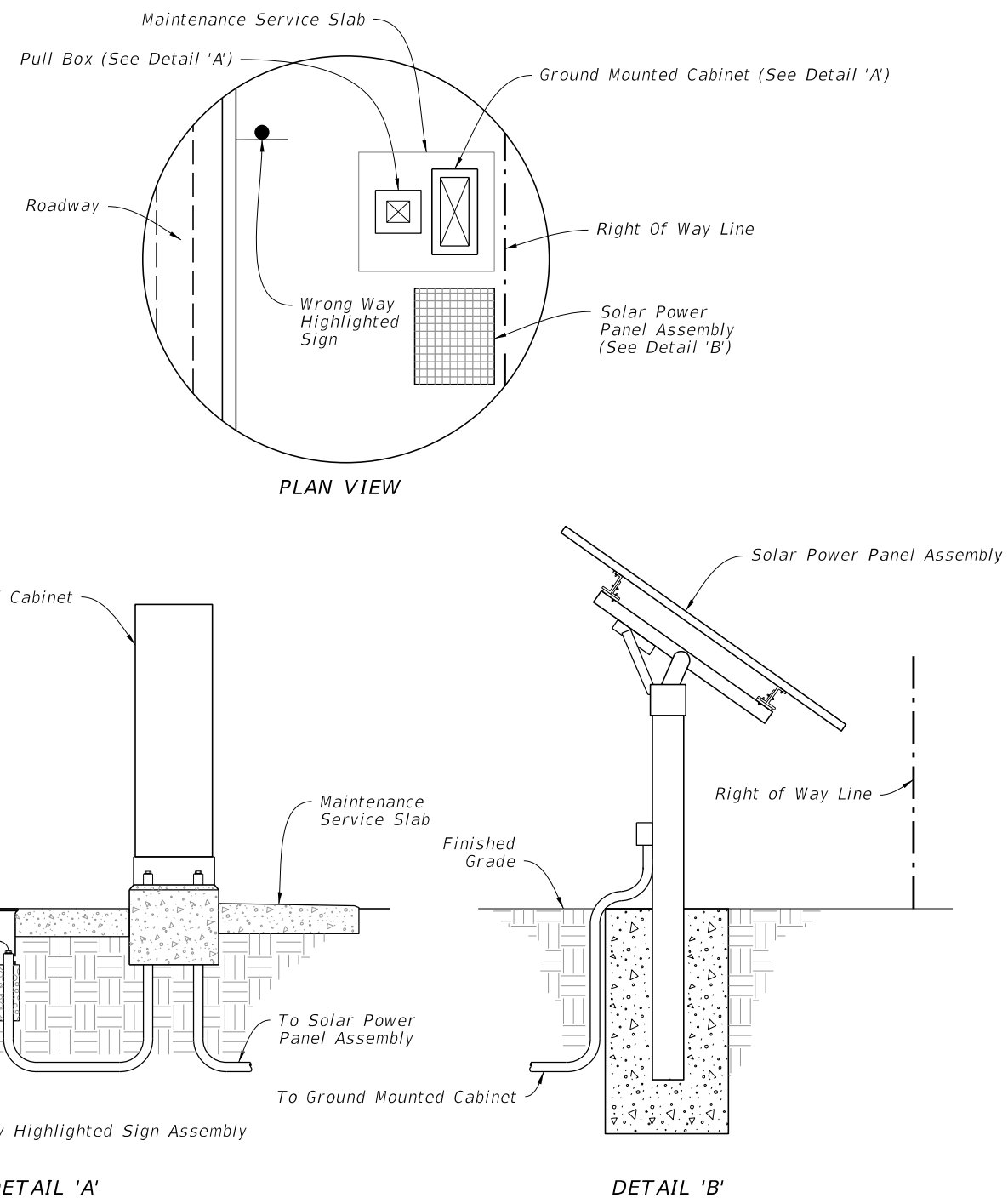
DELETED SHEET 6

ROADSIDE SIGN ASSEMBLY-3

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WRONG WAY HIGHLIGHTED SIGN ASSEMBLY



SOLAR POWER ASSEMBLY

NOTES:

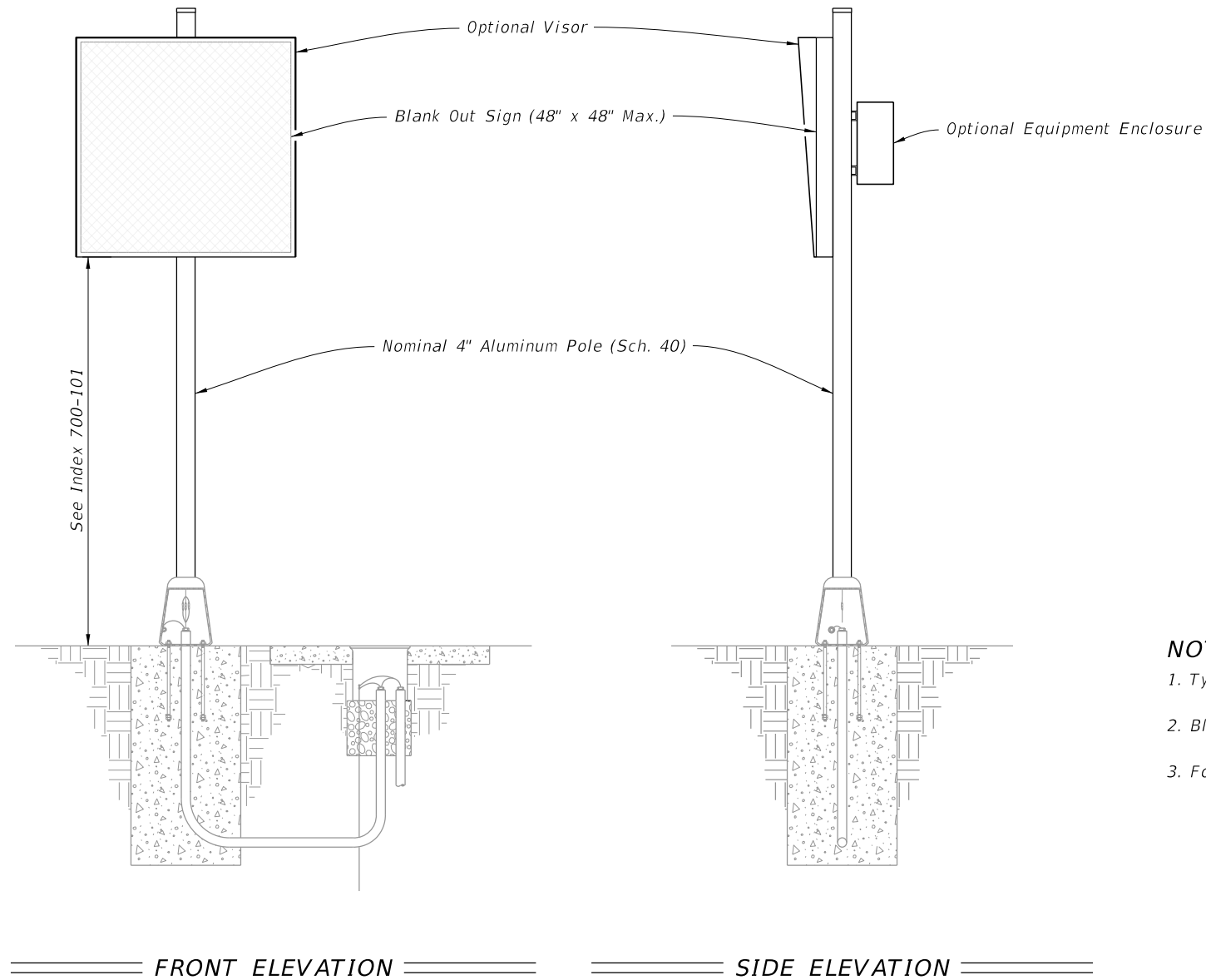
1. Install Wrong Way Vehicle Detection System (WWVDS) devices including cameras, detectors, wireless links, antennas, enclosures, and electronics in accordance with the manufacturer's instructions.
2. When a solar powered configuration (Type B7) is called for in the Plans, install a ground mounted cabinet and solar power panel assembly. Install the solar charge controller and batteries in the same ground mounted cabinet. Provide a separate pole for mounting the solar panel (DETAIL 'B' shown for illustration purposes only) and install in accordance with manufacturer's instructions. Locate the Solar Power Assembly as close to the right of way as possible. Orient the solar panel to face South.
3. Foundation reinforcement not shown.
4. Install cabinets in accordance with Index 676-010.

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ROADSIDE SIGN ASSEMBLY-5

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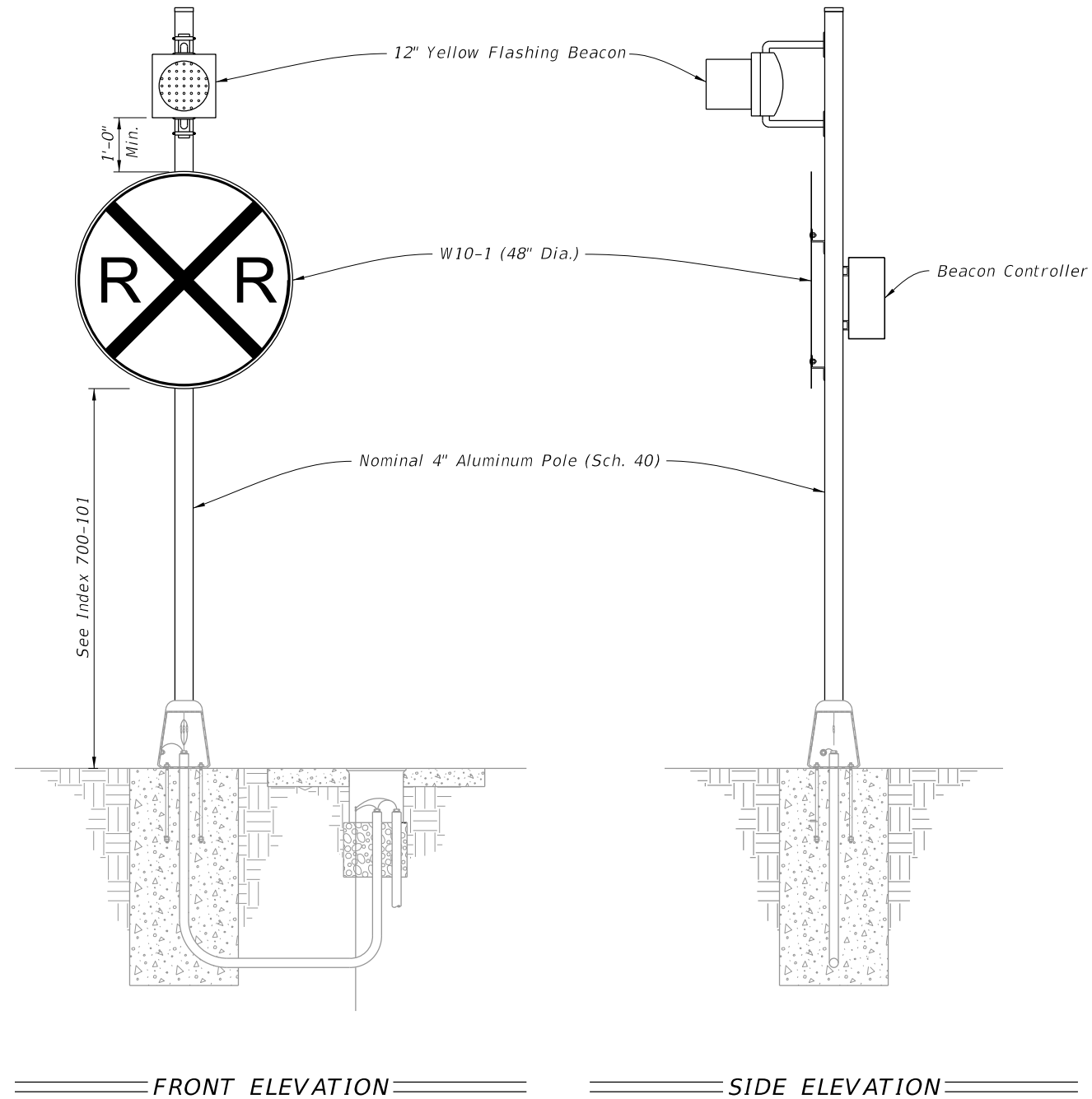
NOTES:

1. Type A8 Assembly (conventionally powered) is shown.
2. Blank Out Sign visors are optional.
3. Foundation reinforcement not shown.

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ROADSIDE SIGN ASSEMBLY-6

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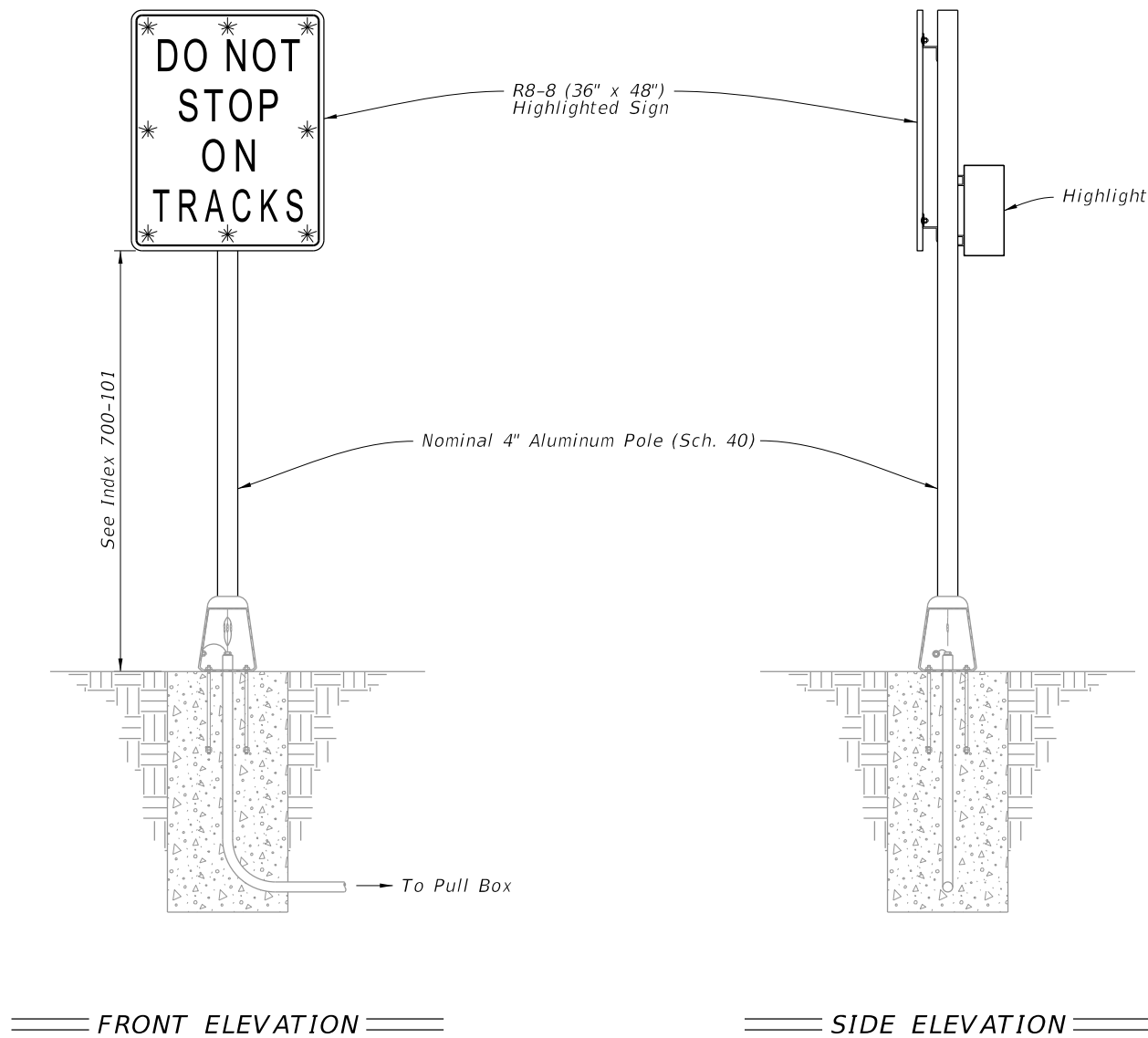
NOTES:

1. Type A9 Assembly (conventionally powered) is shown.
Type B9 Assemblies (solar powered) similar.
2. Foundation reinforcement not shown.

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ROADSIDE SIGN ASSEMBLY-7

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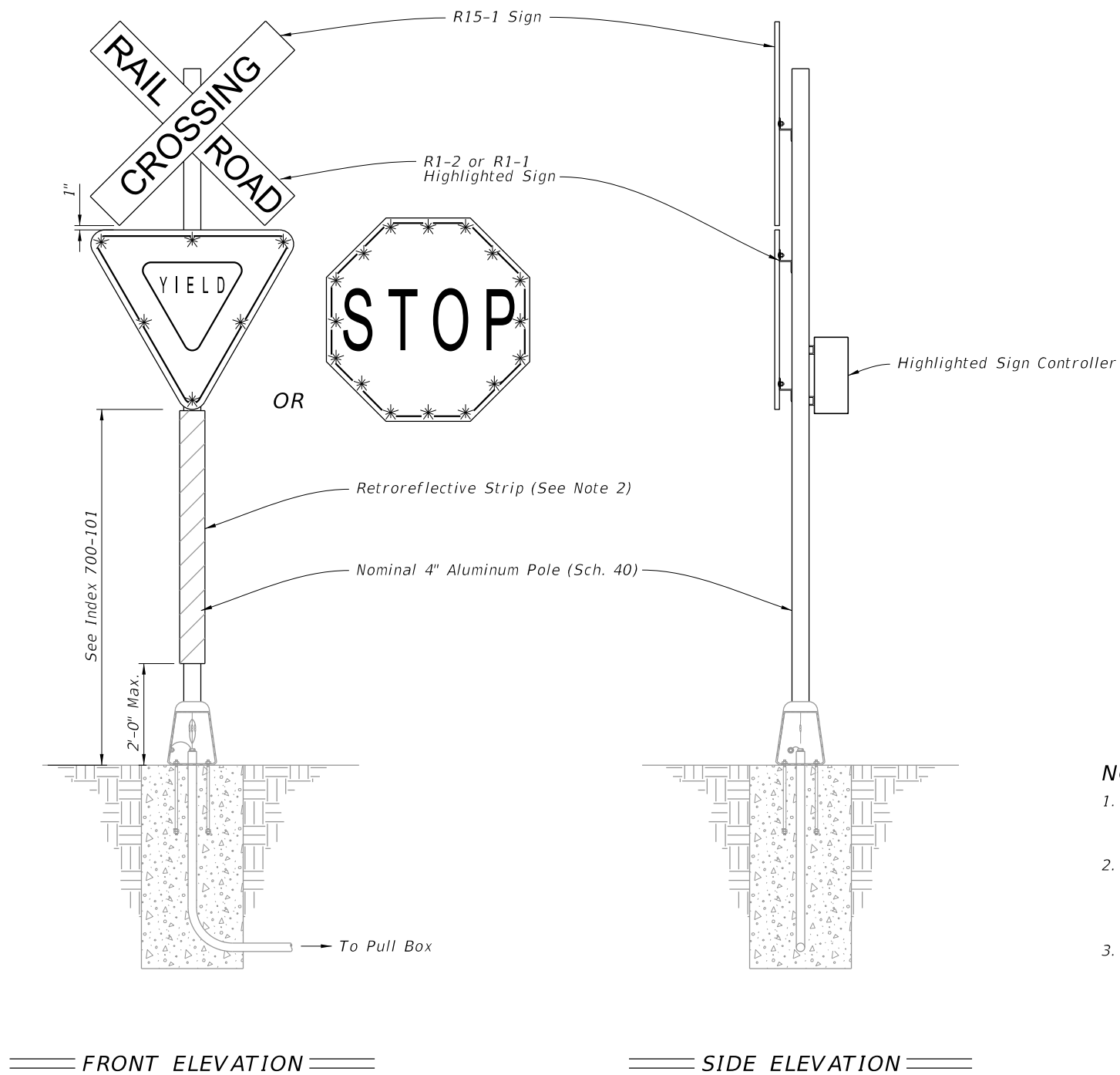
NOTES:

1. Type A10 Assembly (conventionally powered) is shown.
Type B10 Assemblies (solar powered) similar.
2. Foundation reinforcement not shown.

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ROADSIDE SIGN ASSEMBLY-8

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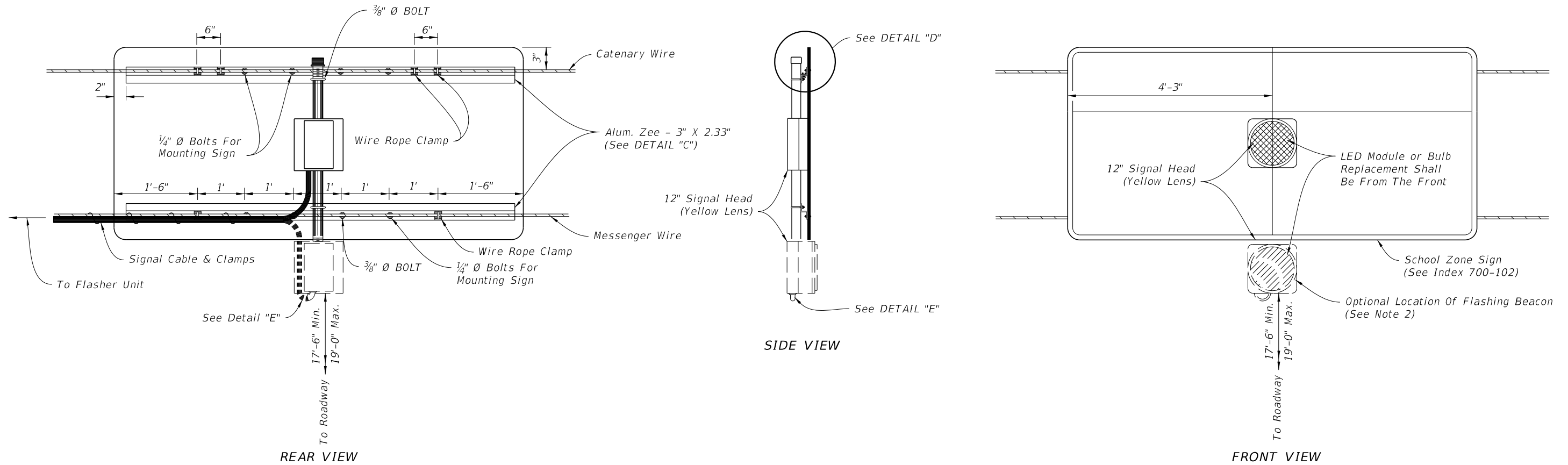
NOTES:

1. Type A11 Assembly (conventionally powered) is shown.
Type B11 Assemblies (solar powered) similar.
2. Install red retroreflective strip on front and white retroreflective strip on back in accordance with Specification 700.
3. Foundation reinforcement not shown.

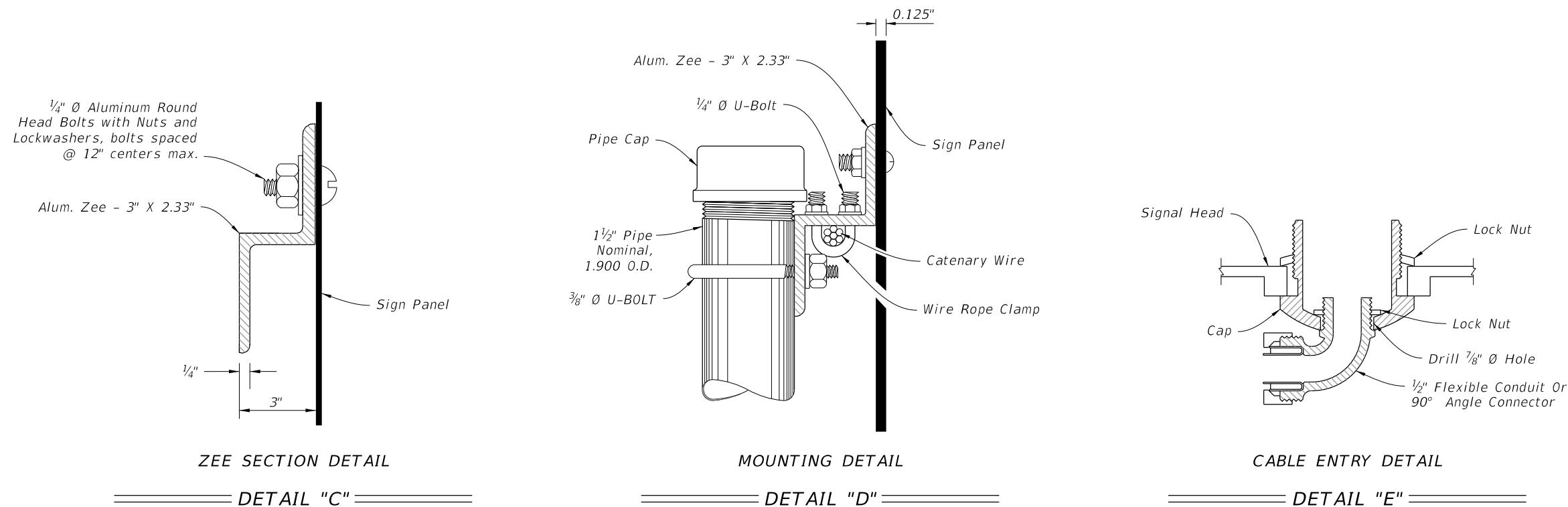
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ROADSIDE SIGN ASSEMBLY-9

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OVERHEAD SCHOOL SIGN ASSEMBLY



NOTES:

- 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.
- Optional flashing beacon will be called for in the Plans. They may be placed within or below the panel, or face to the rear.

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OVERHEAD SIGN ASSEMBLY

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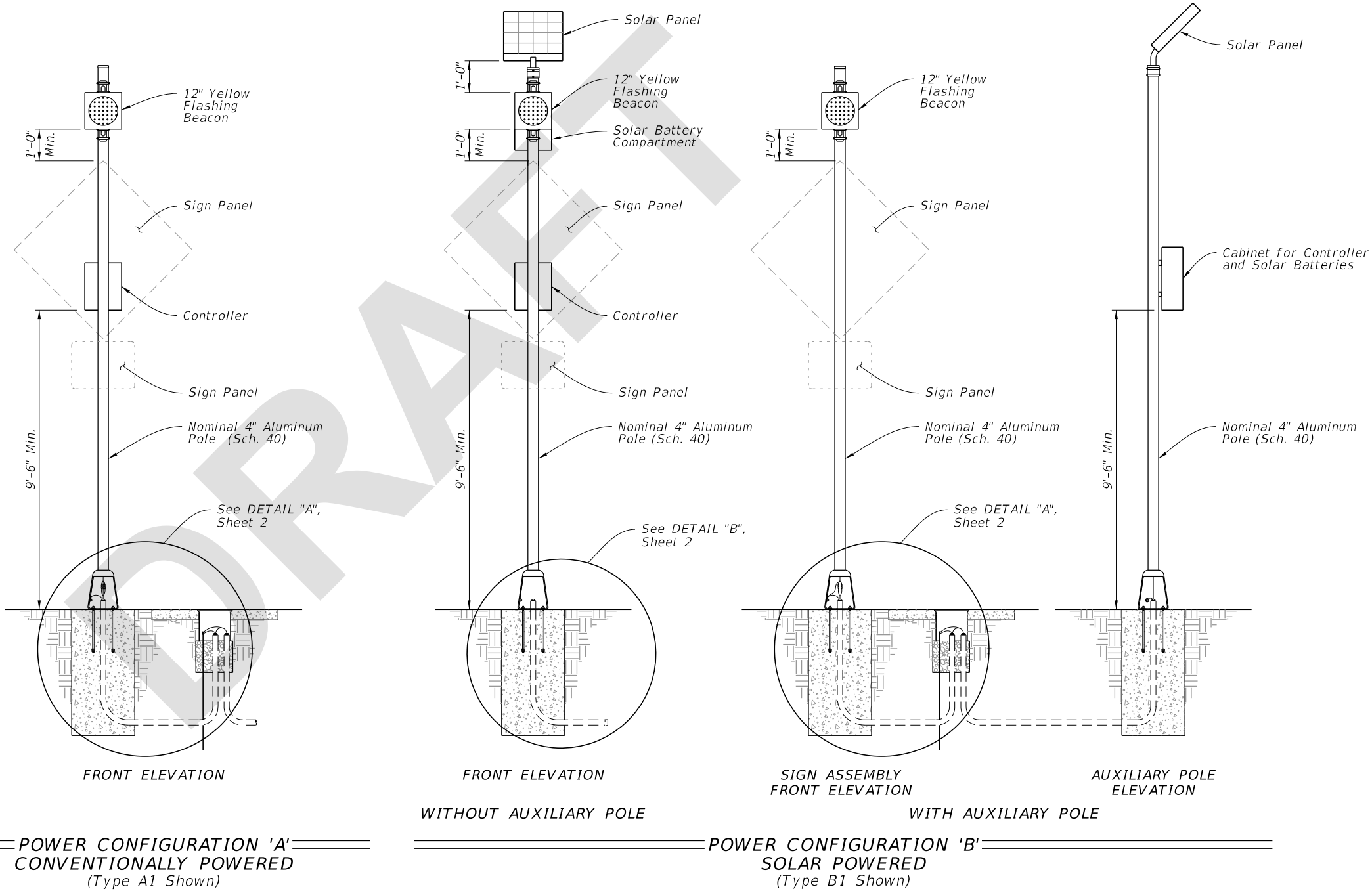
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8	Roadside Sign Assembly-6
9	Roadside Sign Assembly-7
10	Roadside Sign Assembly-8
11	Roadside Sign Assembly-9
12	Overhead Sign Assembly

GENERAL NOTES:

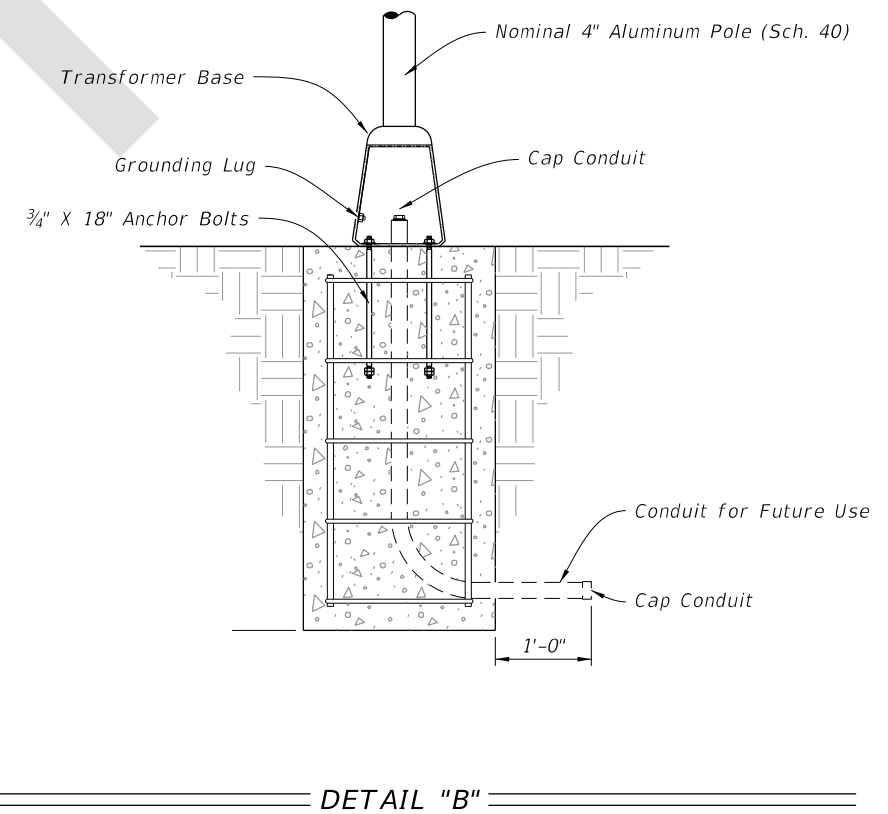
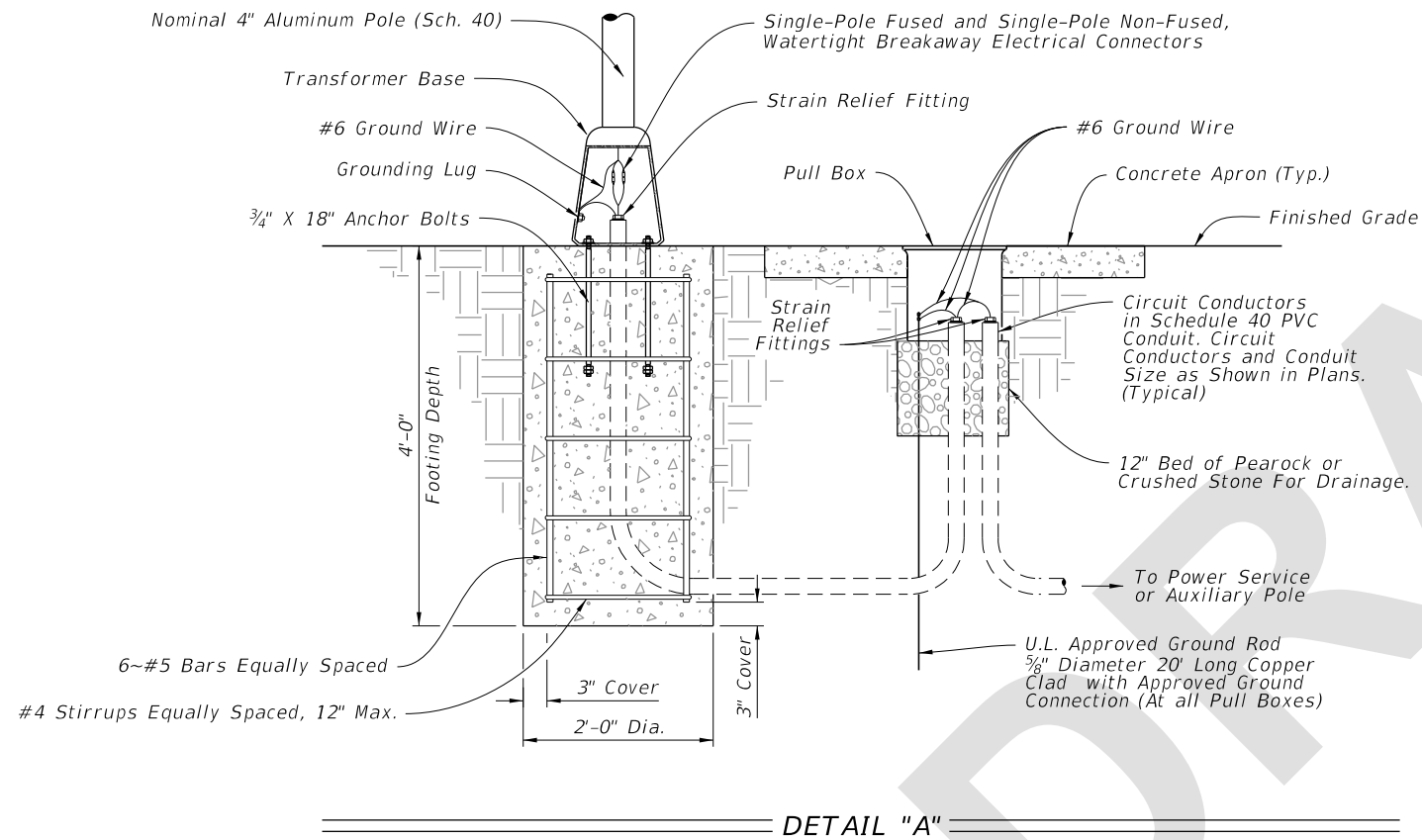
- 1. Meet the requirements of Specifications 646 and 700.
- 2. Engage all threads on the transformer base and post unless the aluminum post is fully seated into base.
- 3. Install a concrete slab around all roadside assemblies on slopes 6:1 or greater. The minimum slab dimension is 6" by 4'-0" by 5'-0".
- 4. 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 as possible.
- 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.

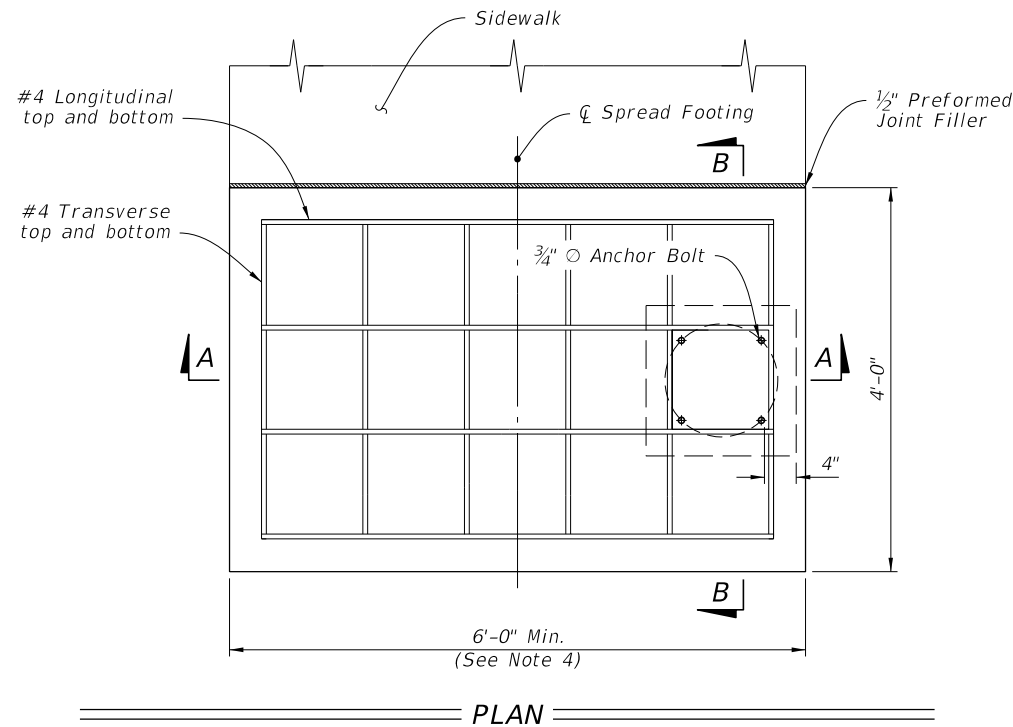


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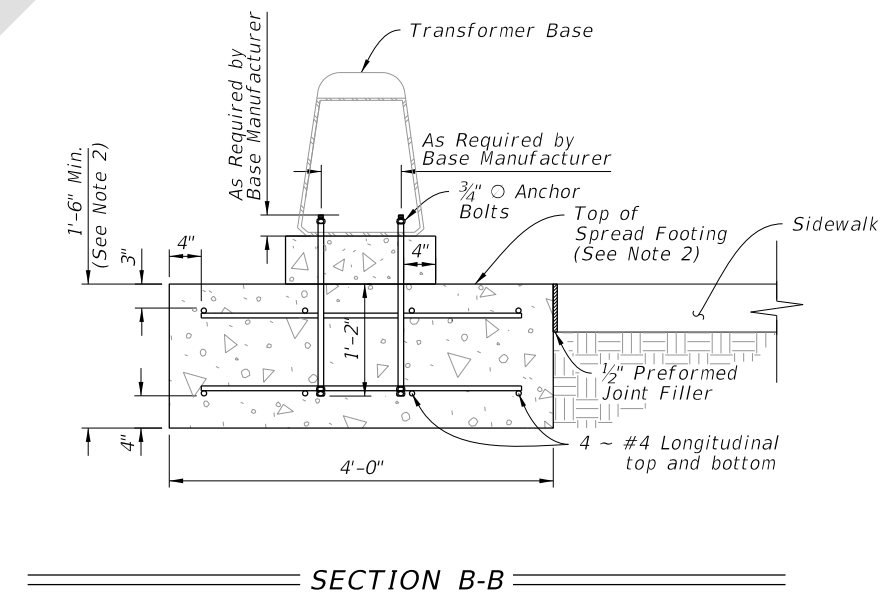
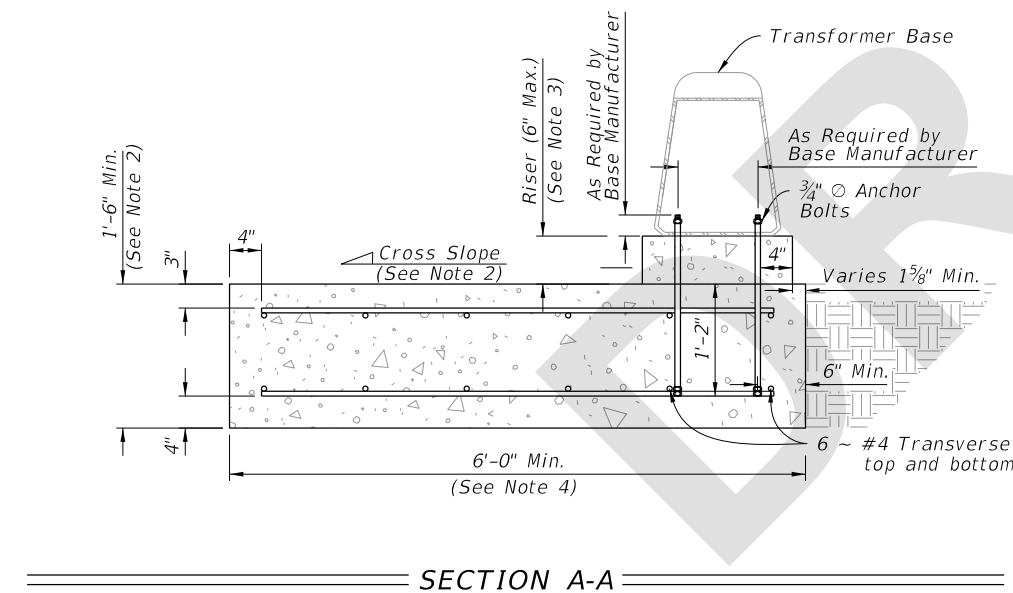
CONDUIT, WIRING, AND FOUNDATION DETAILS

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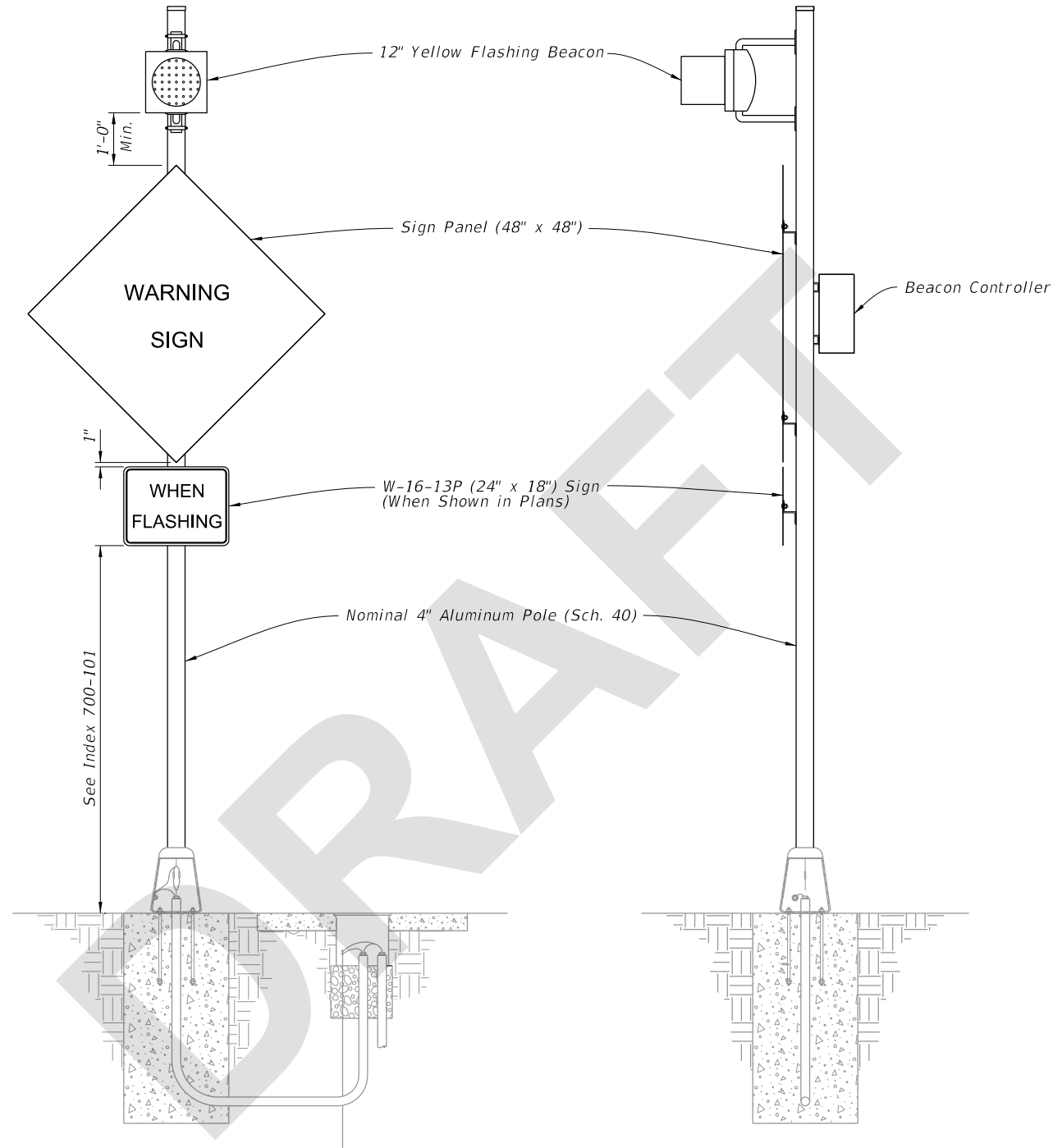
NOTES:

1. Install the Spread Footing Foundation only where called for in the Plans.
2. SIDEWALK:
 - a. When abutting sidewalk, match the cross slope of the adjacent sidewalk or curb ramp where applicable. Maintain the minimum depth of footing.
 - b. 1/2" expansion preformed joint filler required between sidewalk and spread footing.
 - c. Apply concrete surface finish to the top of the spread footing in accordance with Specification 522-7.
 - d. Sidewalk placed on the other side or both sides of the spread footing is permitted where shown in the Plans.
3. Only use concrete riser when installed in-line with sidewalk curb that results in a drop off to the adjacent sidewalk.
4. For sidewalks greater than 6', match sidewalk width. Add one #4 transverse bar, top and bottom, per additional foot of spread footing to maintain at minimum the same reinforcement area per foot.
5. Base location can vary on spread footing. Location shown in Plans.



SPREAD FOOTING FOUNDATION

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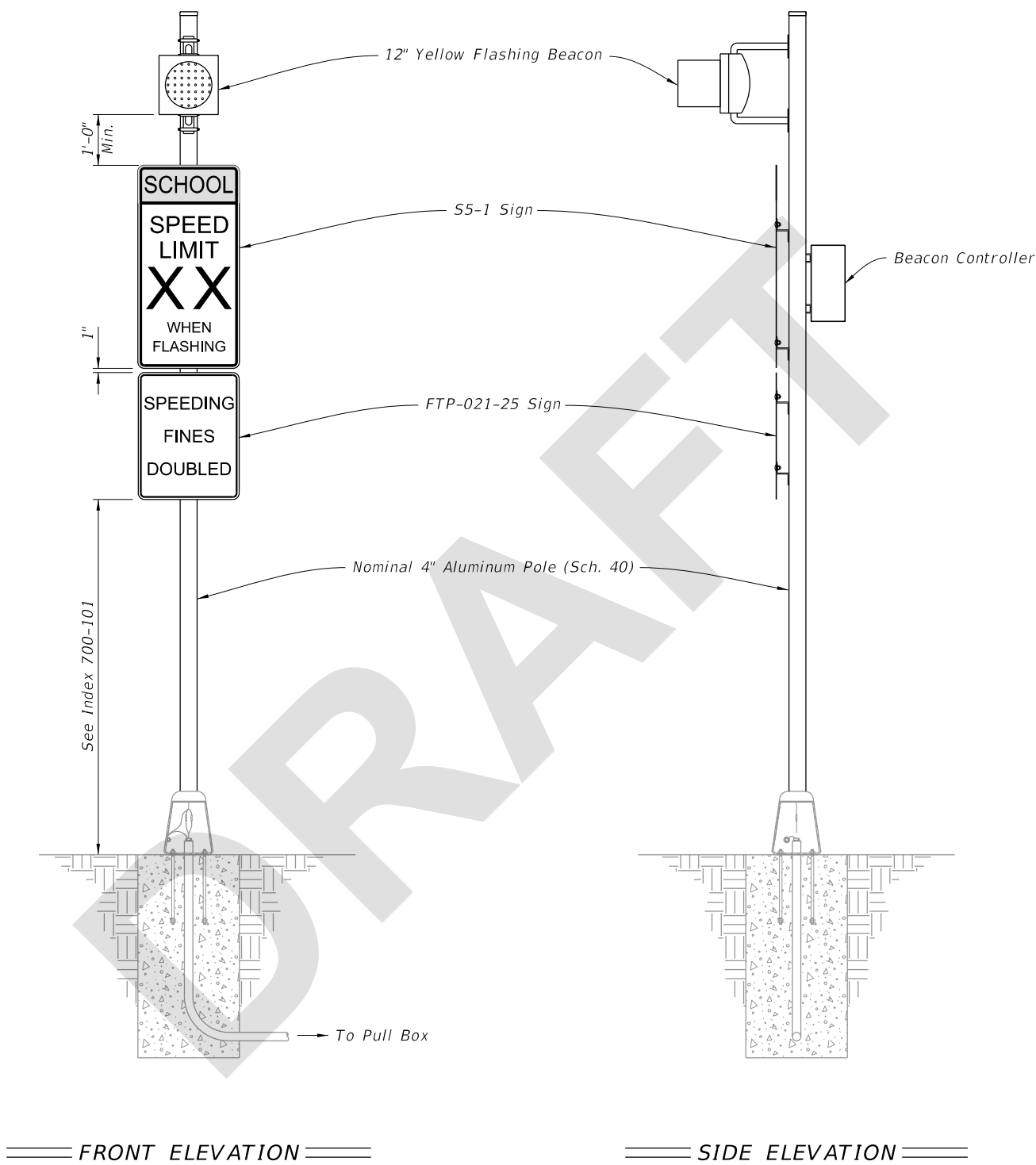
FRONT ELEVATION SIDE ELEVATION

NOTES:

1. Type A1 Assembly (conventionally powered) is shown. Type B1 Assemblies (solar powered) similar.
2. Foundation reinforcement not shown.

ROADSIDE SIGN ASSEMBLY-1

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- NOTES:**
- 1. Type A2 Assembly (conventionally powered) is shown.
Type B2 Assemblies (solar powered) similar.
 - 2. Foundation reinforcement not shown.

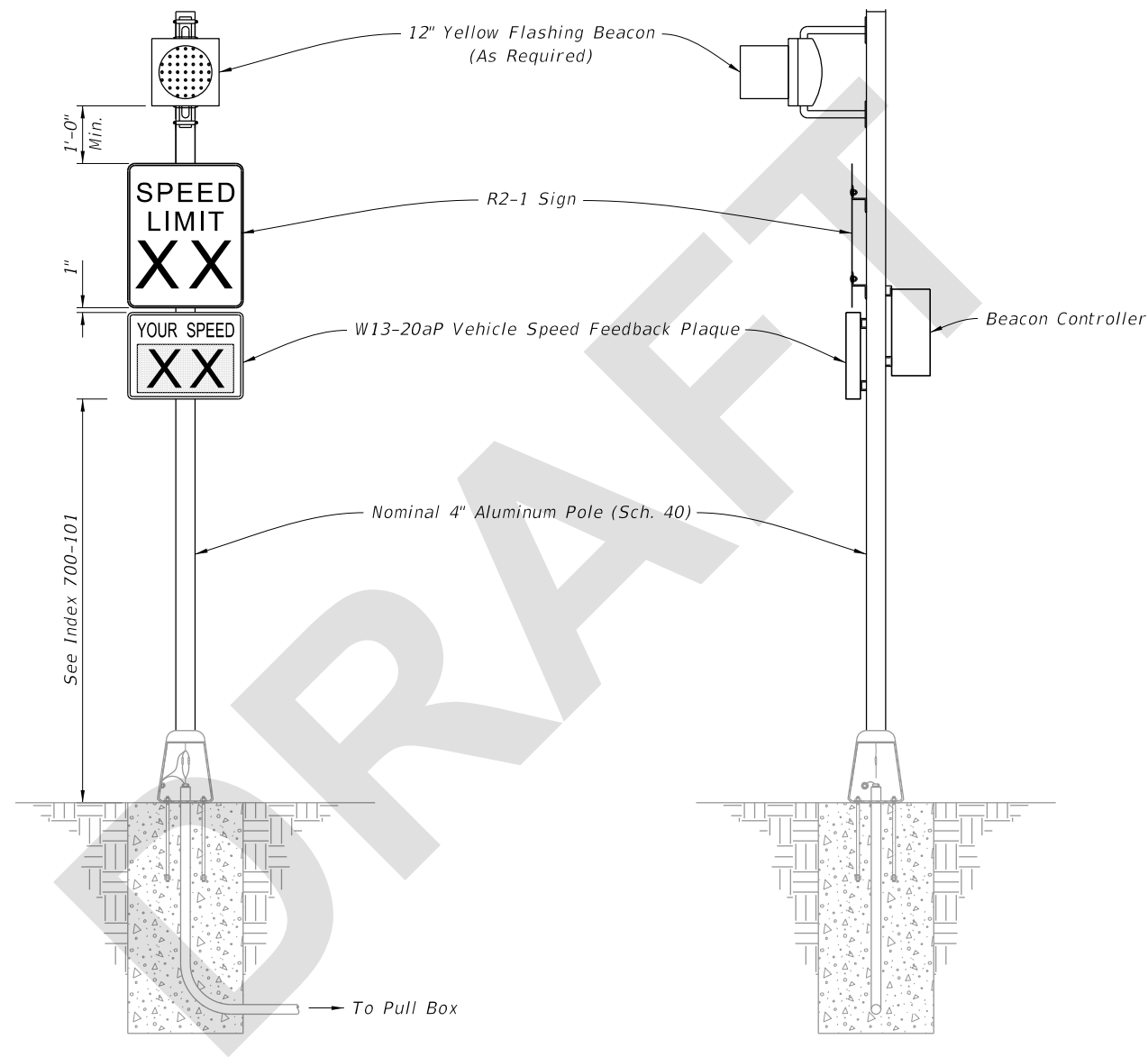
==== FRONT ELEVATION =====

==== SIDE ELEVATION =====

ROADSIDE SIGN ASSEMBLY-2

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FRONT ELEVATION

SIDE ELEVATION

NOTES:

1. Type A6 Assembly (conventionally powered) is shown.
Type B6 Assemblies (solar powered) similar.
2. Install the Vehicle Speed Feedback Plaque in accordance with Specifications 700 and 995.
3. Foundation reinforcement not shown.

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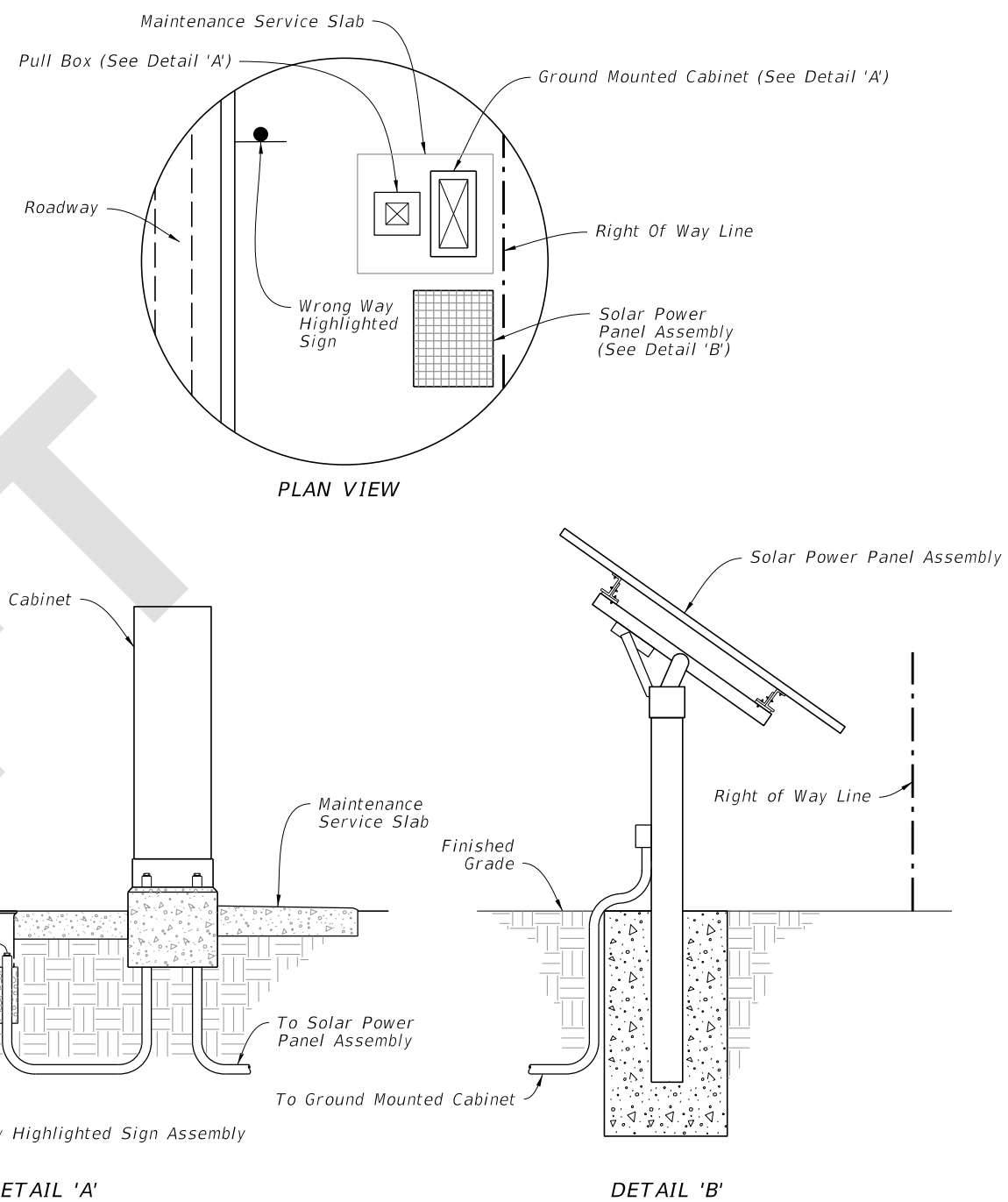
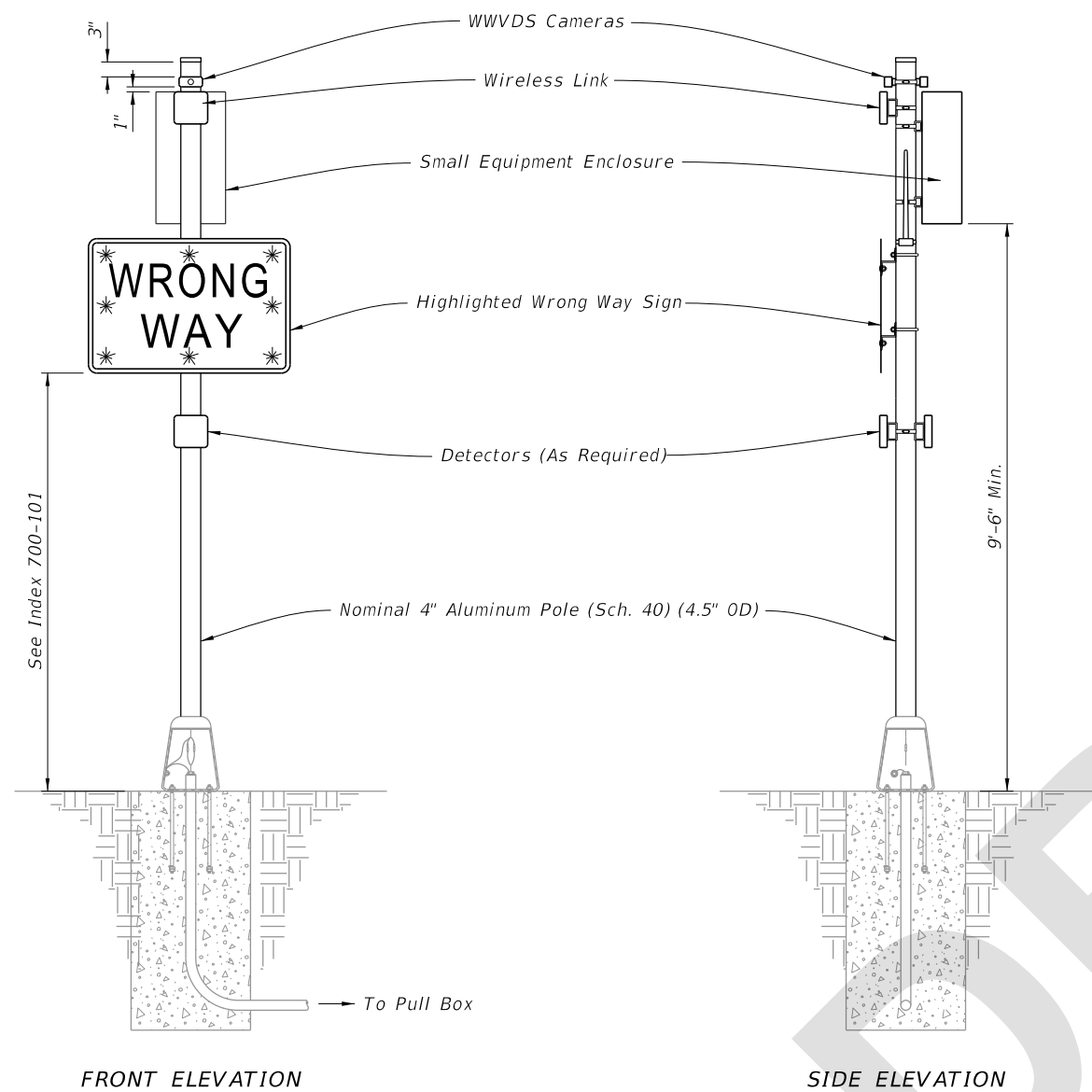
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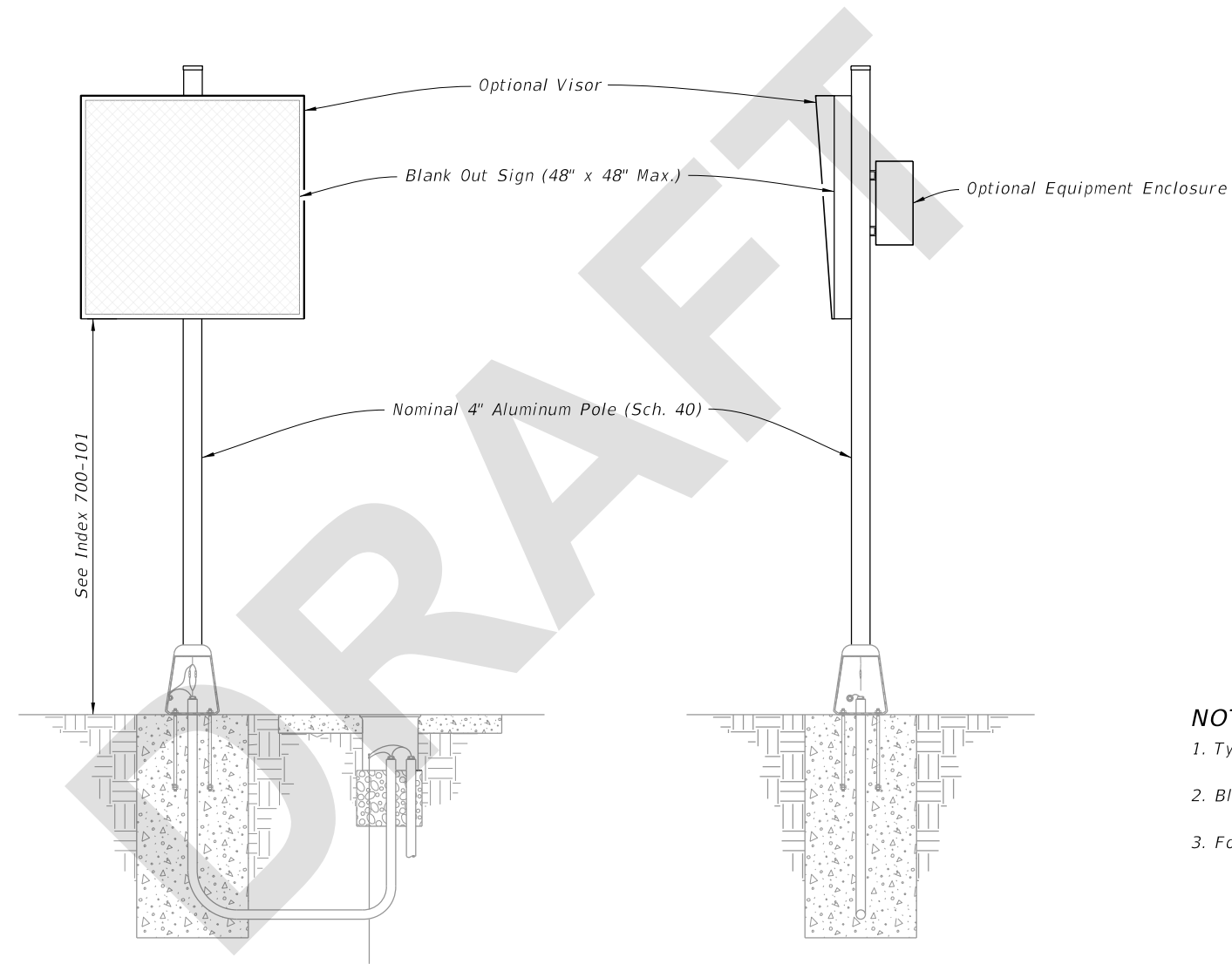


FY 2027-28
STANDARD PLANS

ENHANCED HIGHWAY SIGNING ASSEMBLIES

ROADSIDE SIGN ASSEMBLY-4





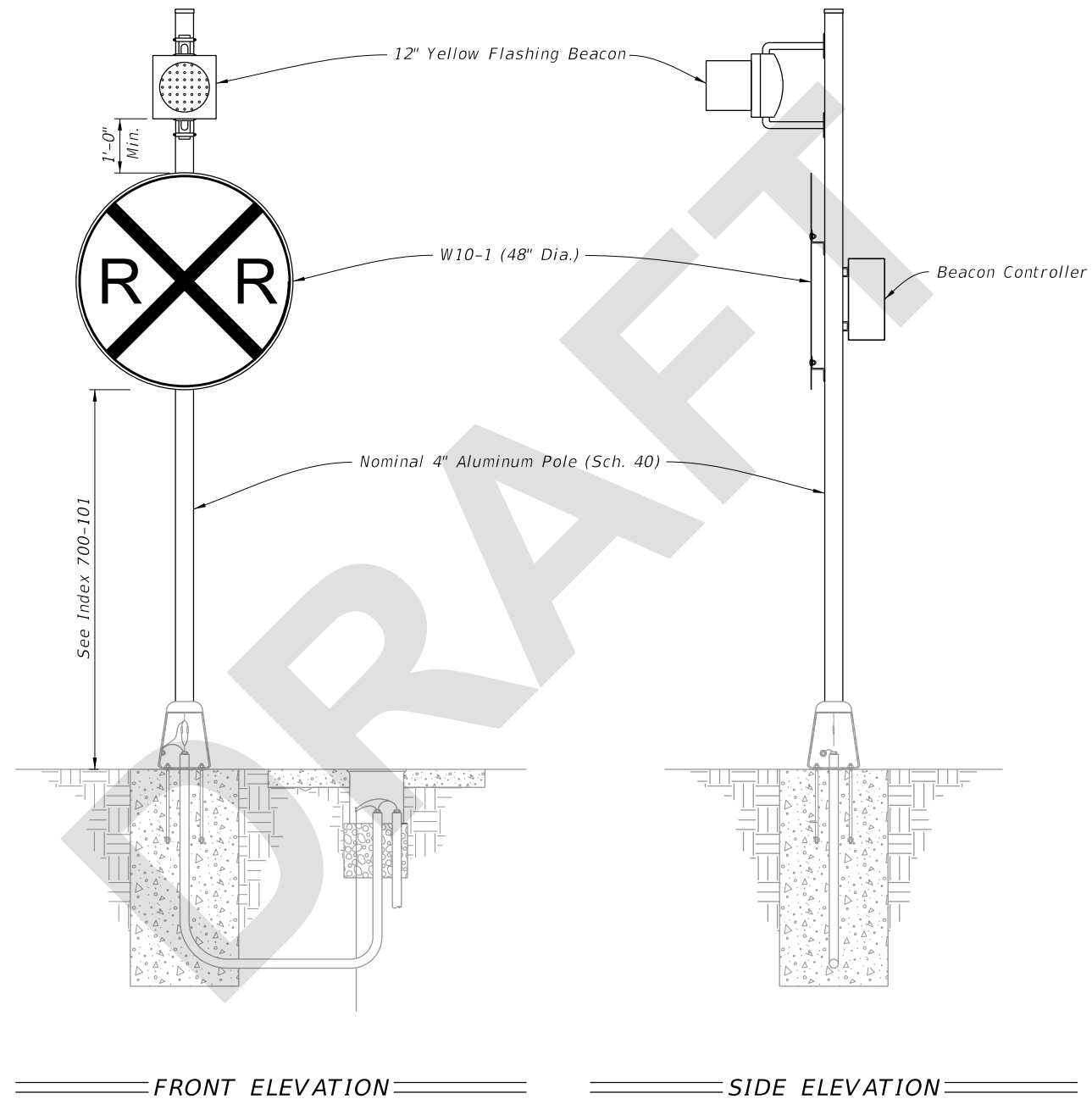
NOTES:

1. Type A8 Assembly (conventionally powered) is shown.
2. Blank Out Sign visors are optional.
3. Foundation reinforcement not shown.

===== FRONT ELEVATION ===== ===== SIDE ELEVATION =====

ROADSIDE SIGN ASSEMBLY-6

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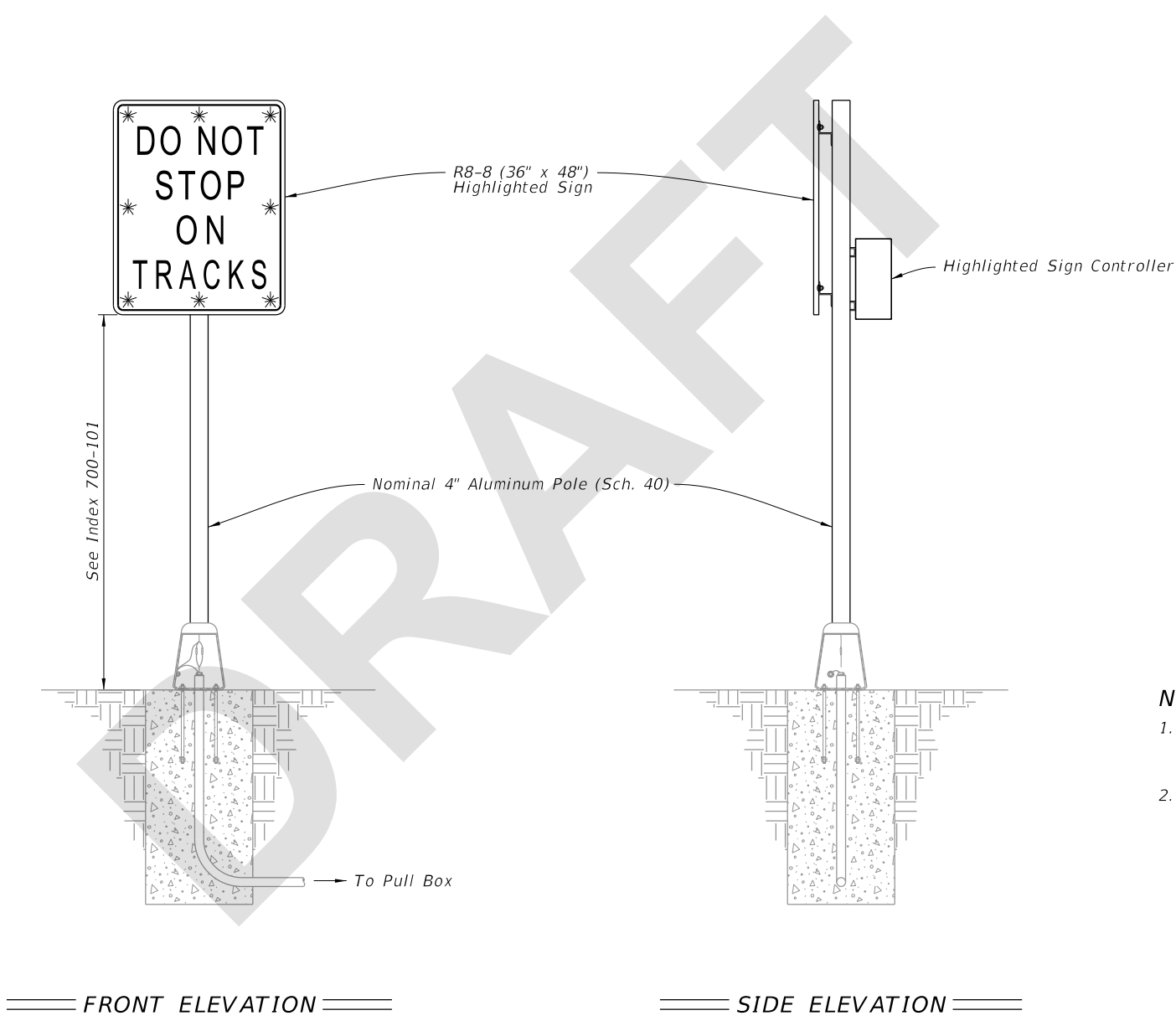


NOTES:

1. Type A9 Assembly (conventionally powered) is shown.
Type B9 Assemblies (solar powered) similar.
2. Foundation reinforcement not shown.

ROADSIDE SIGN ASSEMBLY-7

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- NOTES:**
- 1. Type A10 Assembly (conventionally powered) is shown. Type B10 Assemblies (solar powered) similar.
 - 2. Foundation reinforcement not shown.



FY 2027-28
STANDARD PLANS

ENHANCED HIGHWAY SIGNING ASSEMBLIES

ROADSIDE SIGN ASSEMBLY-8

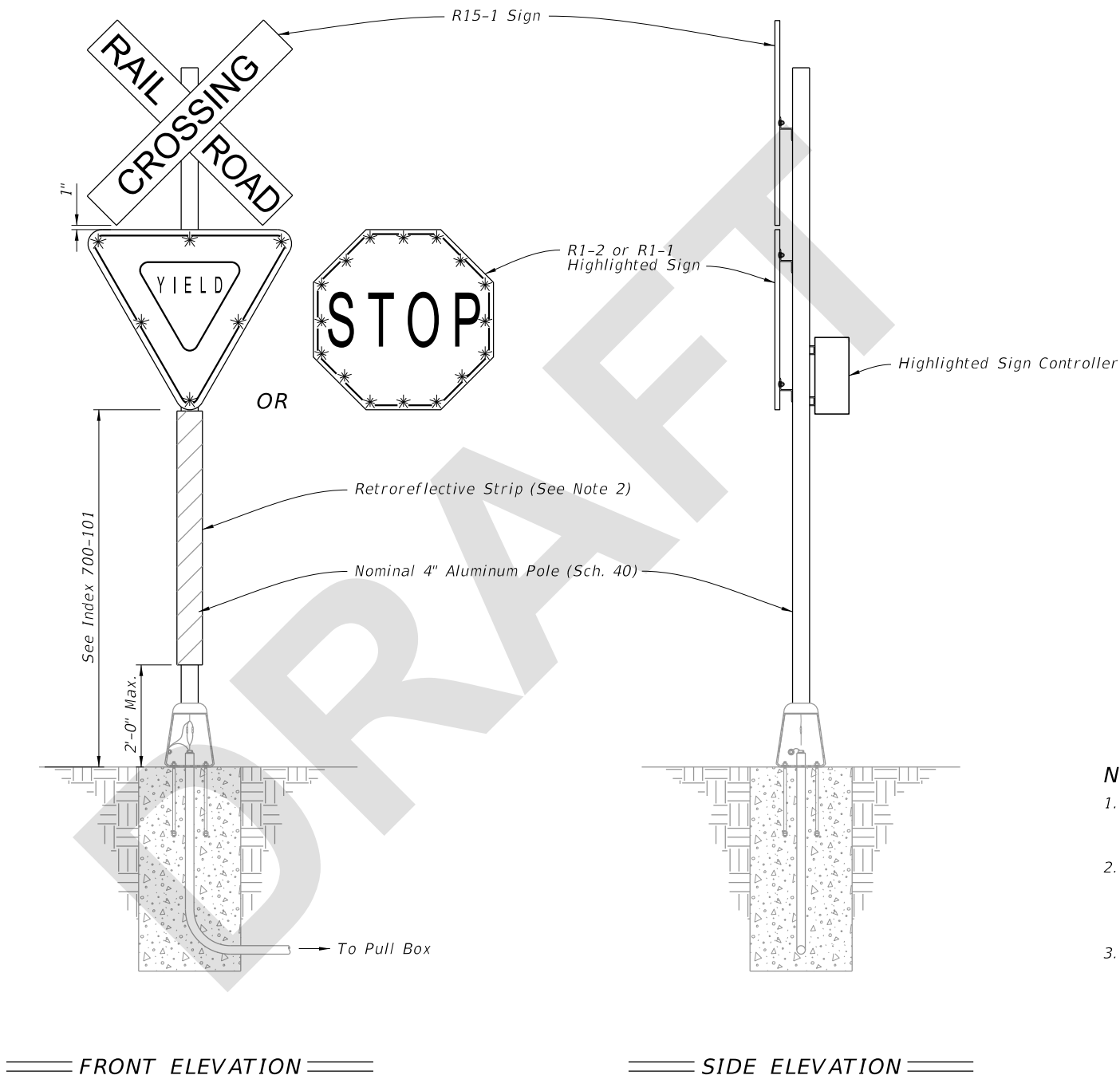
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DESCRIPTION:



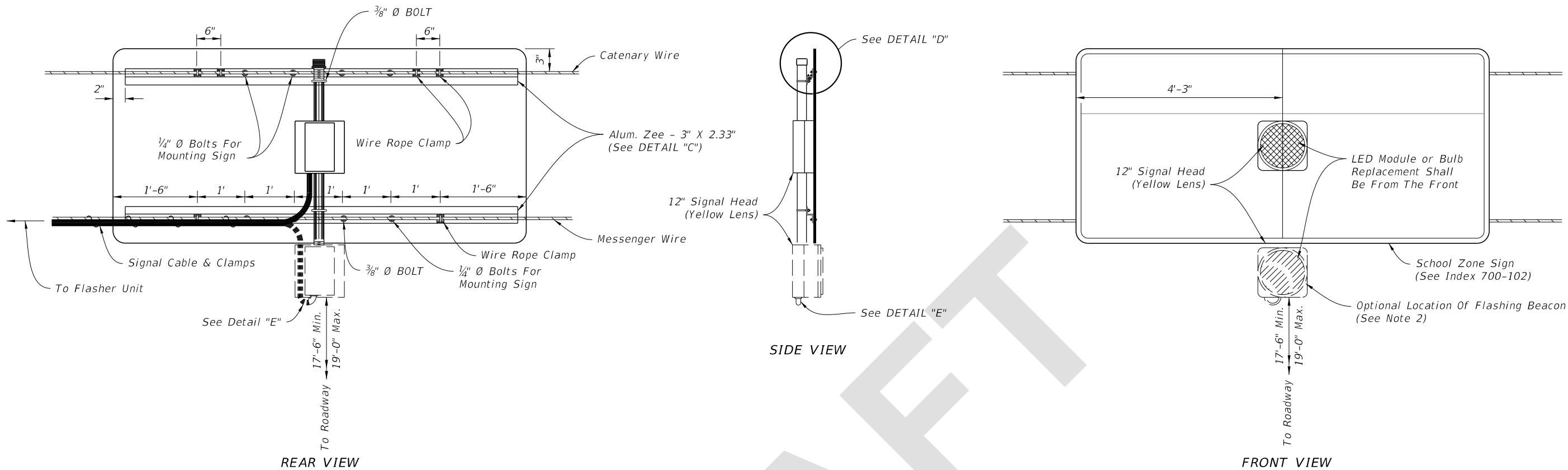
- NOTES:**
- 1. Type A11 Assembly (conventionally powered) is shown. Type B11 Assemblies (solar powered) similar.
 - 2. Install red retroreflective strip on front and white retroreflective strip on back in accordance with Specification 700.
 - 3. Foundation reinforcement not shown.

==== FRONT ELEVATION ==== ==== SIDE ELEVATION ====

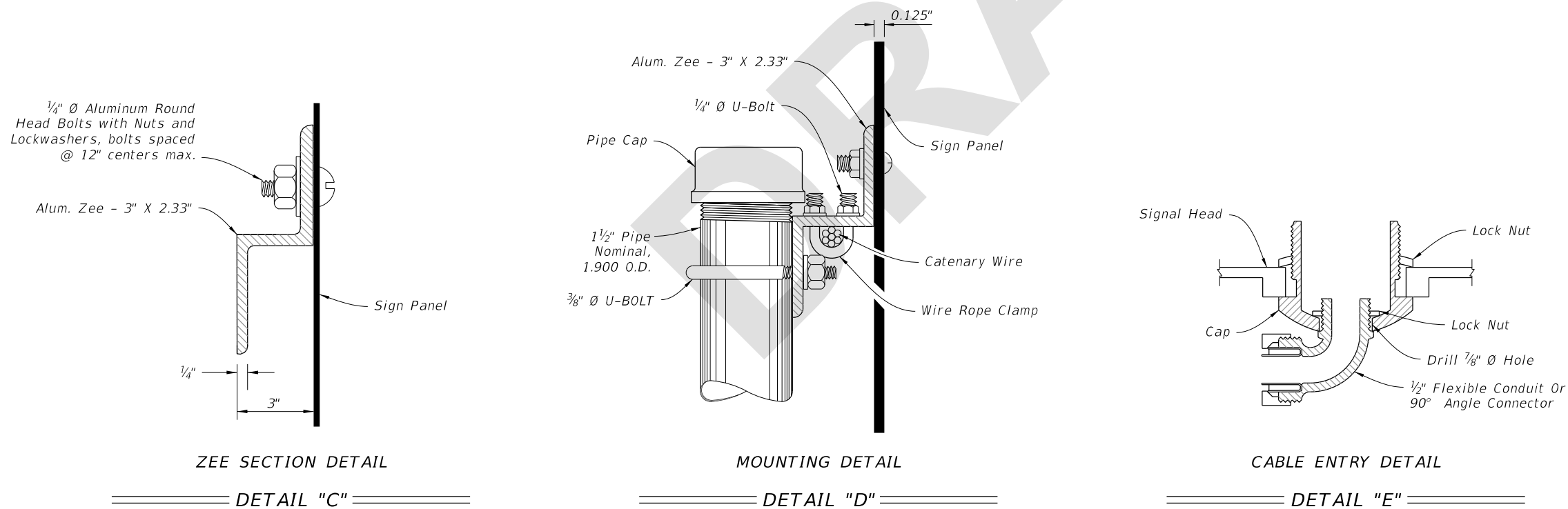
ROADSIDE SIGN ASSEMBLY-9

LAST REVISION 11/01/26	REVISION	DESCRIPTION:	 FY 2027-28 STANDARD PLANS	ENHANCED HIGHWAY SIGNING ASSEMBLIES	INDEX 700-120	SHEET 11 of 12
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OVERHEAD SCHOOL SIGN ASSEMBLY



NOTES:

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

LAST REVISION 11/01/26	REVISION DESCRIPTION:	FY 2027-28 STANDARD PLANS	ENHANCED HIGHWAY SIGNING ASSEMBLIES	INDEX 700-120	SHEET 12 of 12
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