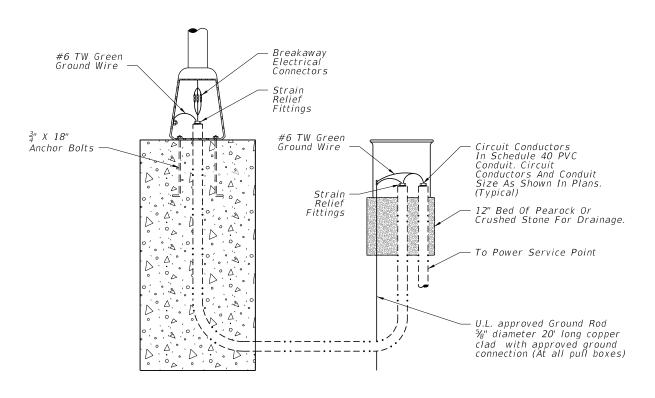


GENERAL NOTES

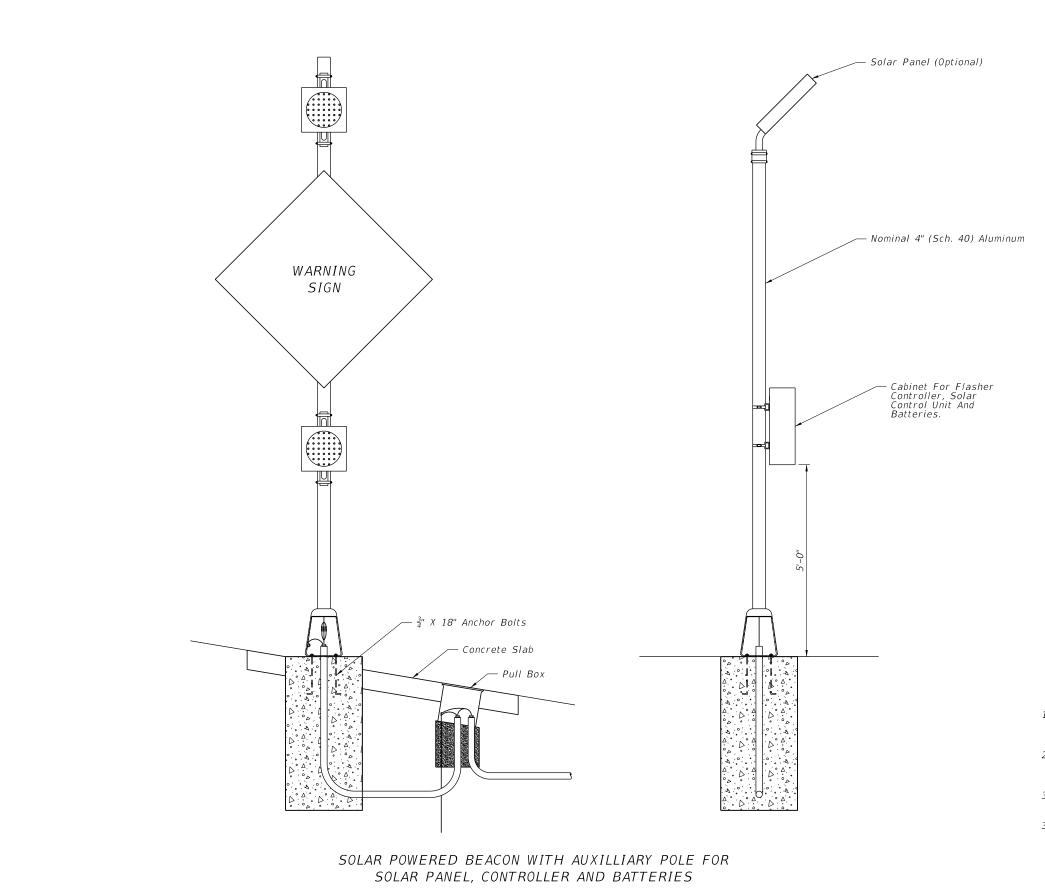
- 1. ALUMINUM: Aluminum materials shall meet the requirements of Aluminum Association Alloy 6061-T6 (ASTM B209, B221, B308 or B429), except as noted.
- 2. Sign panel, wind beam and columns shall be installed in accordance with Index 11860 and Section 700 of the Specifications.
- 3. Height and offset to sign column shall be in accordance with Index 17302.
- 4. When aluminum column (posts) are installed with a frangible pedestal pole bases, engage all threads on the pedestal pole base and pipe unless the pipe is fully seated into base.
- 5. Aluminum poles and transformer bases shall meets the requirements of Section 646 of the Specifications.
- 6. A concrete slab shall be installed around all flashing beacon assemblies installed on slopes 6:1 or greater. Minimum dimension of slab shall be 4'-0" by 5'-0".
- 7. A concrete slab shall be installed around all pull boxes. Minimum dimension of slab shall be 4'-0" by 4'-0". In urban areas where space is limited slab dimensions may be adjusted as shown in the plans.
- 8. For beacon assemblies connected to conventional power, provide single pole non-fused watertight breakaway electrical connectors in the frangible pedestal pole base.
- 9. Connection of controller cabinet and solar panel to the column shall be in accordance with manufacturer's recommendations.
- 10. Holes drilled in sign column for wire entry shall use a bushing or rubber grommet to
- 11. Orient solar panel to face South for optimal exposure to sunlight

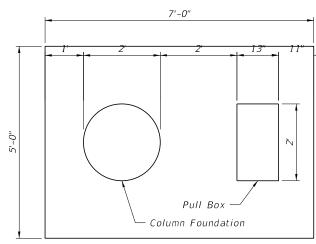


POLE WIRING DETAIL CONVENTIONAL POWERED BEACON

LAST **REVISION** 12/15/14

FY 2016-17 DESIGN STANDARDS





CONCRETE SLAB DETAIL

NOTES

- All flashing beacon assemblies with solar panels, controllers and batteries weighing more than 170 lbs. shall utilize a separate pole for mounting the solar panel, controller and batteries.
- The auxillary pole shall be installed outside the recoverable terrain distance and as near the right of way as possible. The recoverable terrain distance shall comply with Design Standard Index 700.
- 3. Auxilliary pole shall be the same length as the column for the beacon assembly.
- 3. Payment for the separate pole, foundation, conduit and wiring shall be included in the cost of the electronic warning sign with flashing

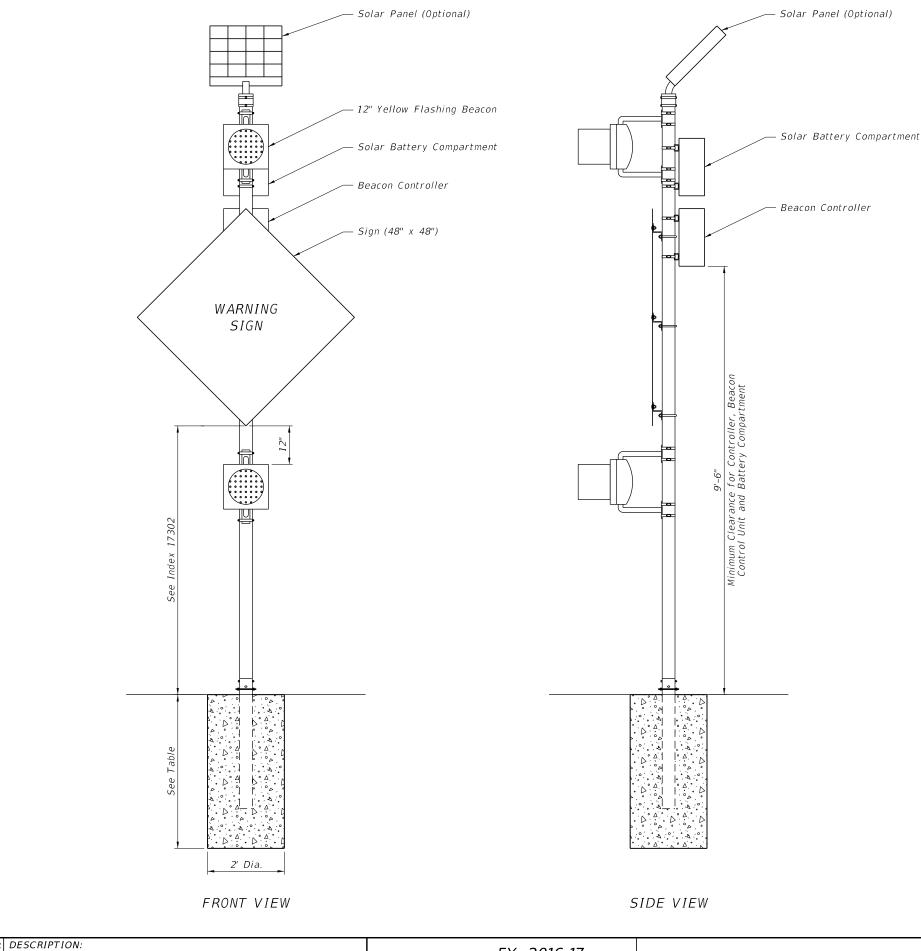
REVISION 07/01/15

DESCRIPTION:

FY 2016-17 DESIGN STANDARDS

INDEX NO. 11862

SHEET NO. 2 of 7



STANDARD WARNING SIGN CO				LUMN SIZE	
	Wind Speed	Sign Height	Column Size	Footing Depth	
	110	7'	4"	4'	
	130	7'	4.5"	4'	
	150	7'	5"	4.5'	
	110	8.5'	4.5"	4'	
	130	8.5'	5"	4.5'	
	150	8.5'	6"	5'	

NOTES

- 1. Details show a typical warning sign with two flashing beacon heads. When only one beacon is required, install upper beacon.
- 2. Sign column slip base shall be in accordance with Design Standard Index 11860.
- 3. Beacon and beacon controllers shall be listed on Approved Products List (APL).

SOLAR POWERED WARNING SIGN DETAILS

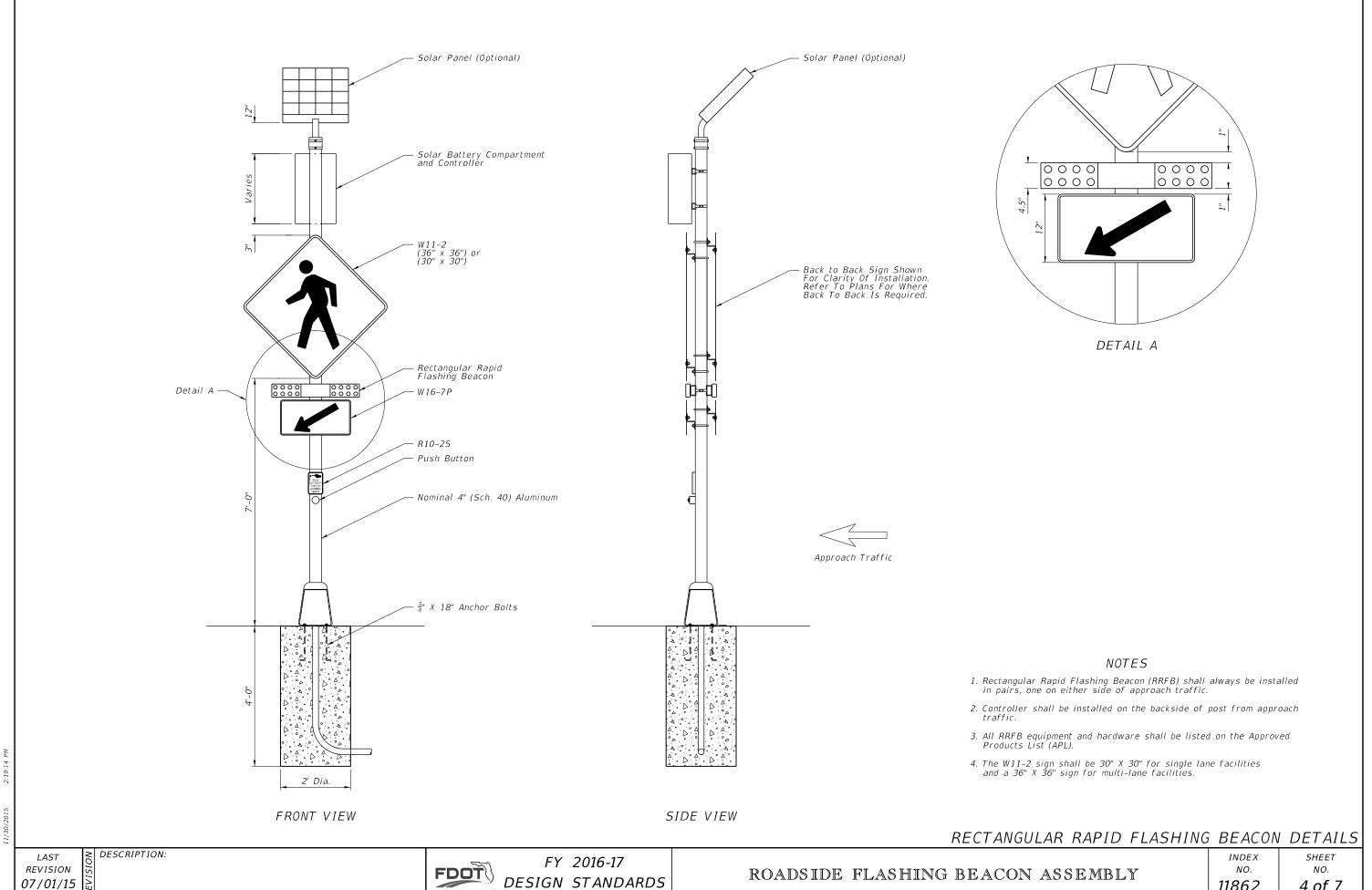
REVISION 12/15/14

FY 2016-17 DESIGN STANDARDS

ROADSIDE FLASHING BEACON ASSEMBLY

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DESIGN STANDARDS

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