
Index 654-001

Rectangular Rapid Flashing Beacon Assembly

ORIGINATION

Date: 6-6-21

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COMMENTARY

The foundations within Indexes 646-001, 654-001, 695-001, and 700-120 are being updated to be more consistent between applications. A structural analysis was completed to determine if the foundations could be revised to provide a more consistent design between the various applications. The aluminum posts callouts will be changed to be consistent with other Indexes.

COMMENTS AND RESPONSES

BLACK = Industry Review Comments **RED** = Standard Plans Response **GREEN** = Change Made to Index

Name: C-Team Comment

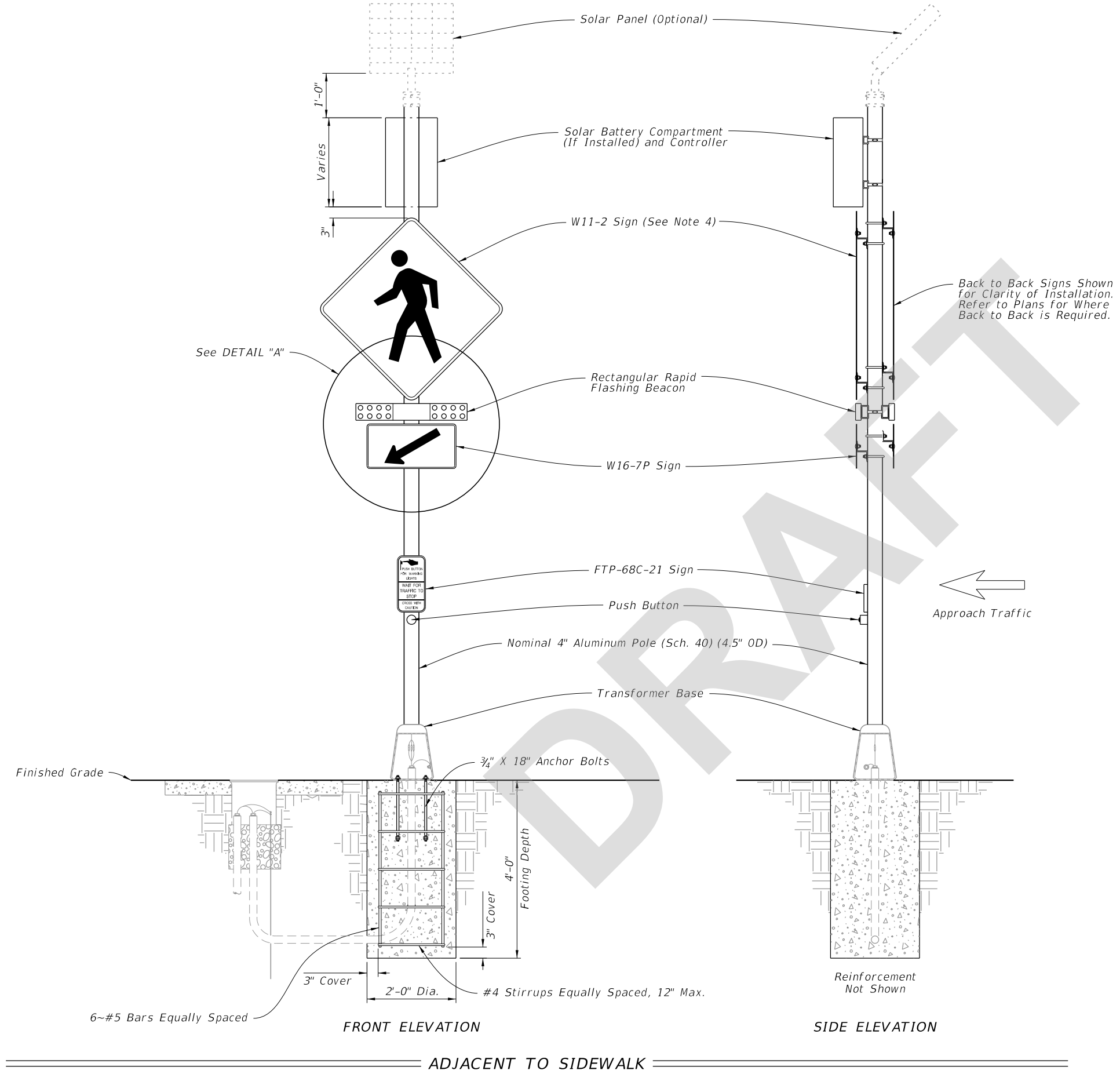
Date: 9/8/2021

COMMENT: Has the revision of pole diameter callouts from 4" nominal to 4.5" OD been properly coordinated? This change could incur cost updates and other design considerations and affect APL. Were structural parameters considered? Specification 646 references 4" nominal which needs to be updated.

RESPONSE: The pole/posts are not changing with this update so there are no issues with the APL or additional costs incurred. This change was requested by the Structures Office to make callouts consistent with other Indexes that specify pole/post dimensions. The 4" nominal and 4.5" OD are the same callout in this scenario based on ASTM B429 which is a requirement of Spec 646. Although there is no conflict, Spec 646 will be updated to be consistent with the new callout in Indexes 646-001, 654-001, 695-001, and 700-120. The callout in the indexes will be updated to clarify that the poles/posts are not changing.

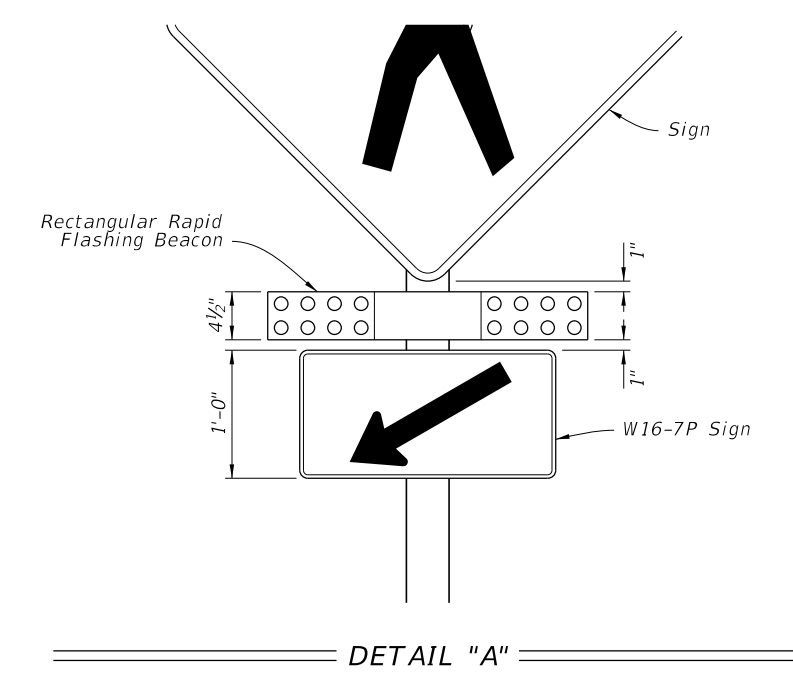
Change Made: **Revise callouts in the Indexes and Spec to read "Nominal 4" Aluminum Pole (Sch. 40) (4.5" OD)"**

Date: 9/10/2021



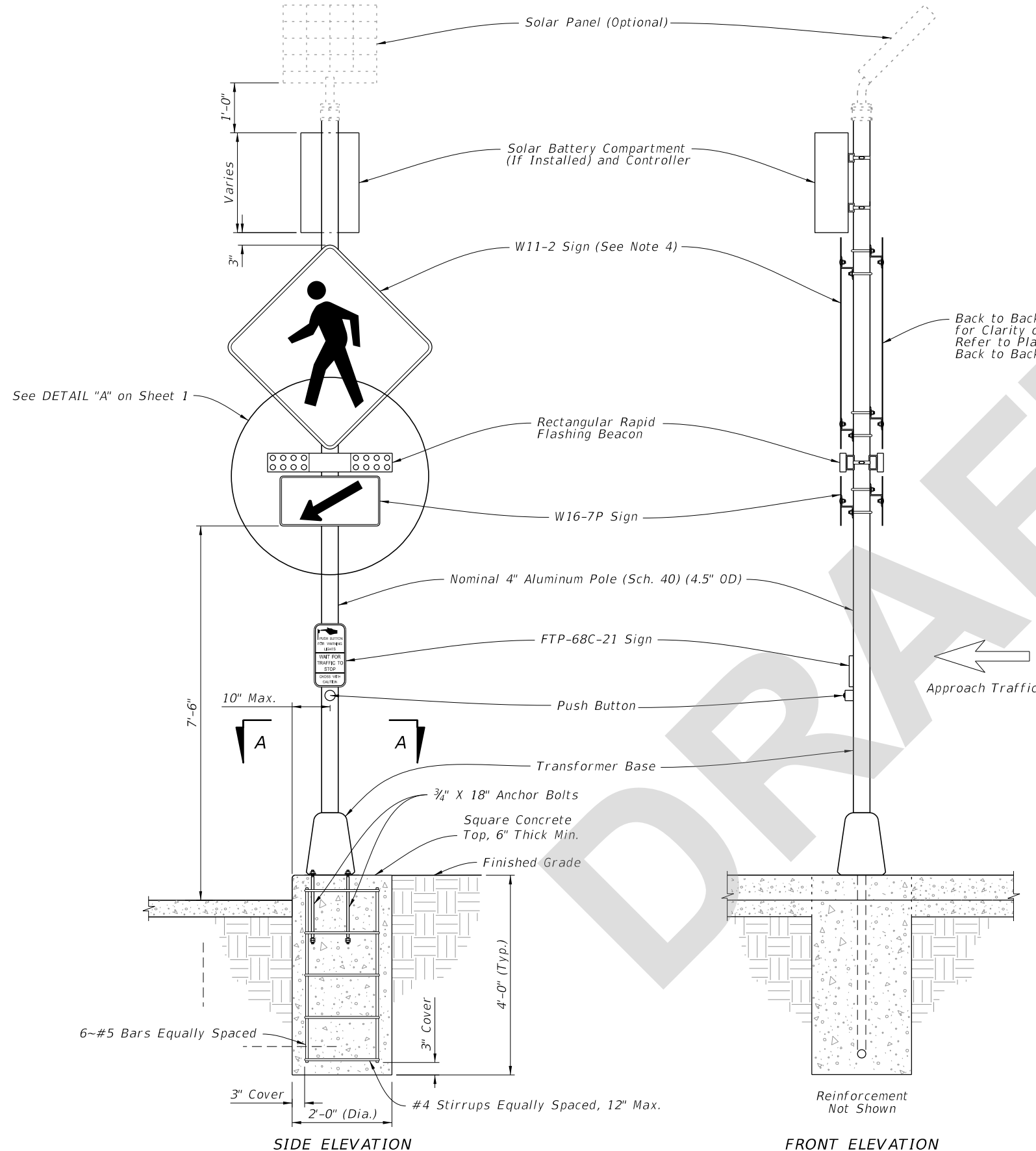
NOTES:

1. A transformer base is required for both conventionally-powered and solar-powered applications. Install pull box, conduit, wiring, and grounding in accordance with Index 700-120 based on the powering configuration called for in the Plans.
2. Install the RRFB in pairs, one on either side of approach traffic.
3. Install controller on the backside of post from approach traffic.
4. Install a 30" X 30" W11-2 sign on two-lane roadways and a 36" X 36" W11-2 sign for multilane roadways.
5. Install push button and FTP-68C-21 sign in accordance with Index 665-001.
6. Engage all threads on the transformer base and post unless the aluminum post is fully seated into base.
7. Meet the material requirements of Specification 646.
8. Install a concrete slab around all pull boxes. The minimum slab dimension is 4'-0" by 4'-0". In urban areas where space is limited slab dimensions may be adjusted as shown in the Plans.
9. For assemblies connected to conventional power, provide single pole non-fused watertight breakaway electrical connectors in the frangible transformer base.
10. When wire entry holes are drilled in the sign column, use a bushing or rubber grommet to protect conductors.
11. For solar-powered applications, orient solar panel to face South for optimal exposure to sunlight.



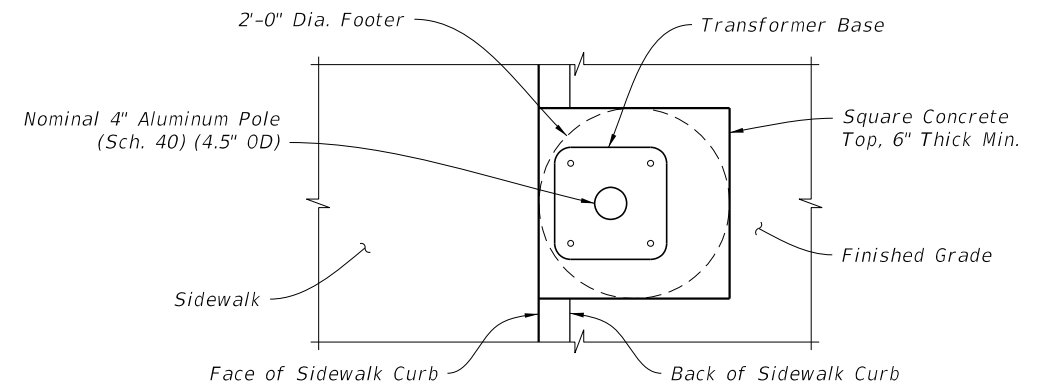
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LAST REVISION 11/01/21	DESCRIPTION:	FY 2022-23 STANDARD PLANS	RECTANGULAR RAPID FLASHING BEACON ASSEMBLY	INDEX 654-001	SHEET 1 of 2
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Back to Back Signs Shown for Clarity of Installation. Refer to Plans for Where Back to Back is Required.


Approach Traffic



SIDE ELEVATION FRONT ELEVATION PLAN VIEW

IN SIDEWALK CURB SECTION A-A

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