

# SECTION L: SIGNAL PLANS

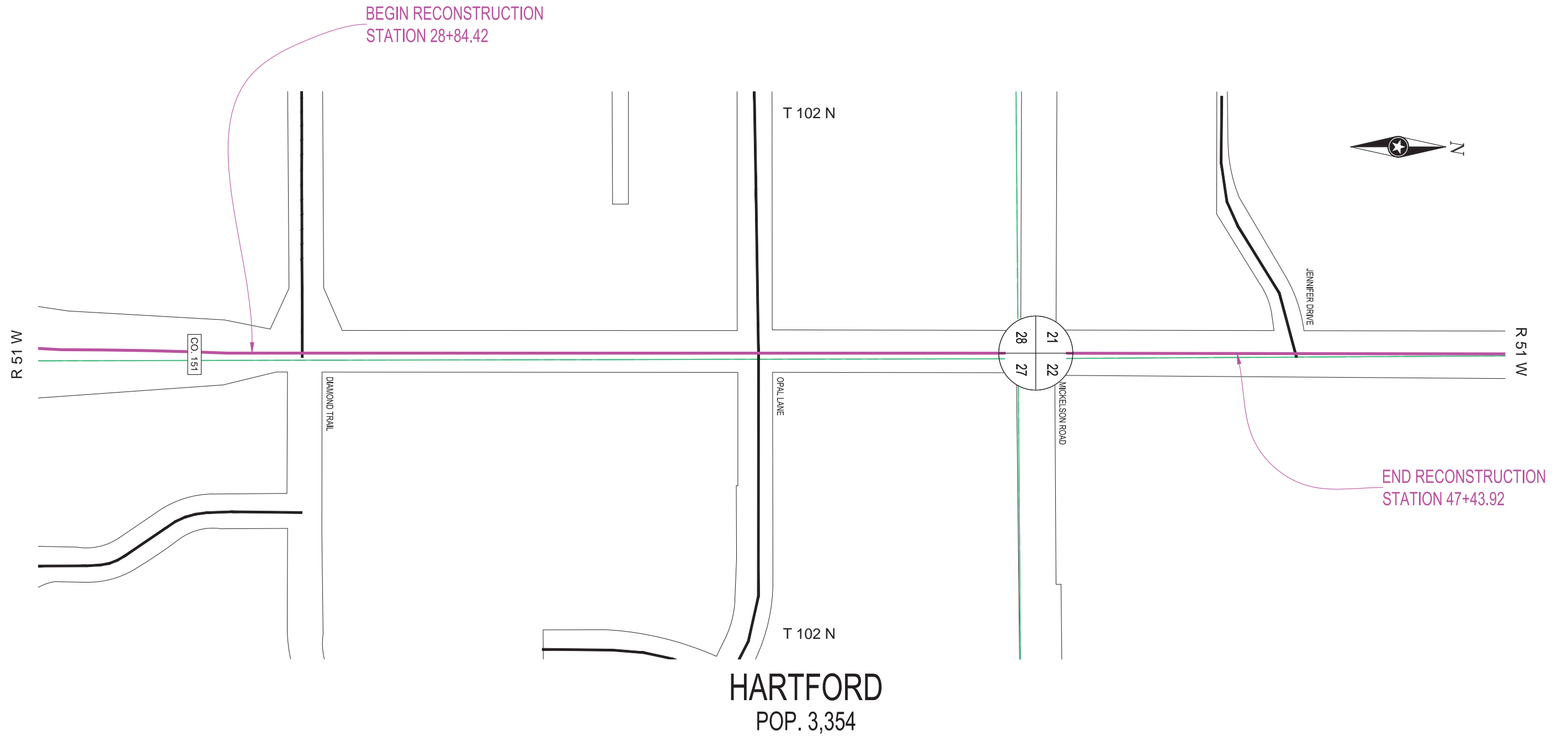
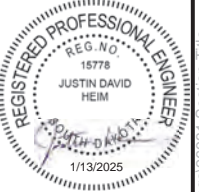
FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 6353(00)	L1	L5

Plotting Date: 1/7/2025

## INDEX OF SHEETS

- L1 Section Title Sheet
- L2 Estimated Quantities and Notes
- L3 Signal Plan
- L4-L5 Standard Plates



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STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 6353(00)	L2	

Plotting Date: 1/7/2025

be to the satisfaction of the Engineer.

All costs for removing the footings of the existing signal poles will be incidental to the contract unit price per each for "Remove Signal Pole Footing".

**SALVAGE SIGNAL EQUIPMENT**

The existing signal equipment identified on the plans will be salvaged and stored by the Contractor. Includes signal pole, base, housing, push button signage, solar panel, electric equipment, flashing beacons, etc.

Any equipment damaged during salvage, storage, and reinstallation will be repaired or replaced by the Contractor at no cost to the City. The Contractor will procure a location to store the salvaged equipment.

All costs for work involved in the salvage and delivery of the existing signal equipment will be incidental to the contract lump sum price for "Salvage Signal Equipment".

All costs involved with reinstalling the pedestrian push buttons and associated hardware, will be incidental to the contract unit price per each for "Reset Pedestrian Push Button".

**REMOVE CONCRETE FOOTINGS**

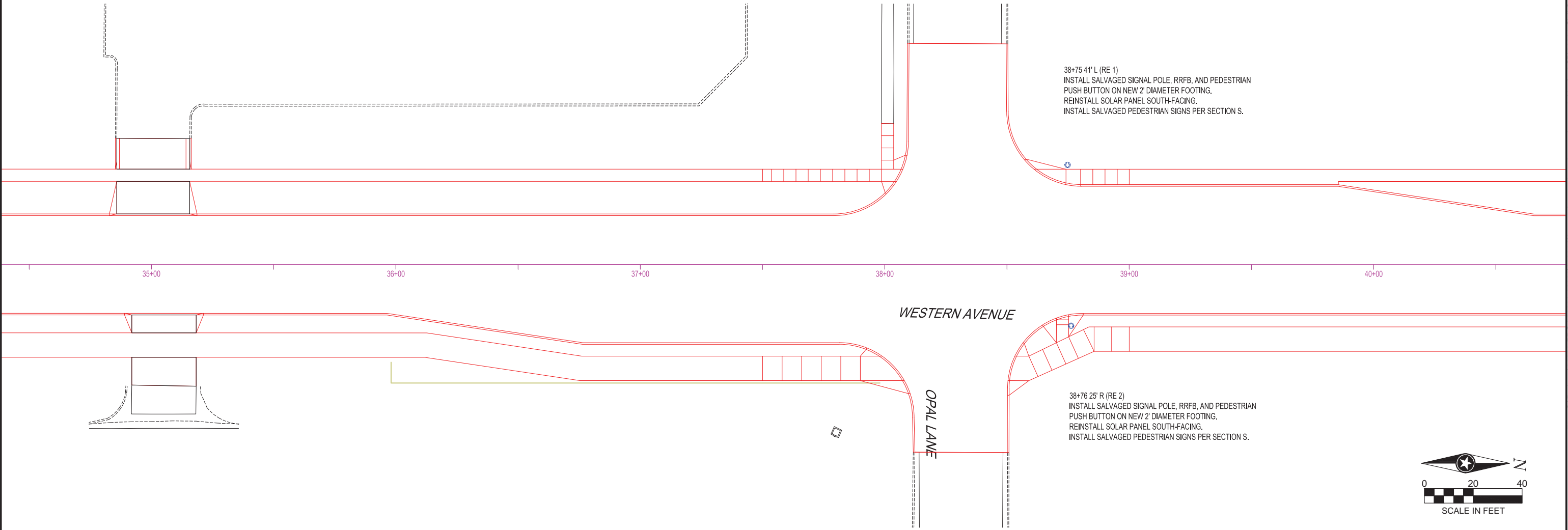
Existing concrete footings of rectangular rapid flashing beacons will be removed to full depth. Signal equipment and poles will be salvaged as requirement by related bid items.

Work consists of removing two (2) concrete footings near 38+63 as shown on the removal plan. Existing footings are 2' diameter and are assumed to be 5' deep. Contractor will field verify and notify the Engineer of any discrepancies.

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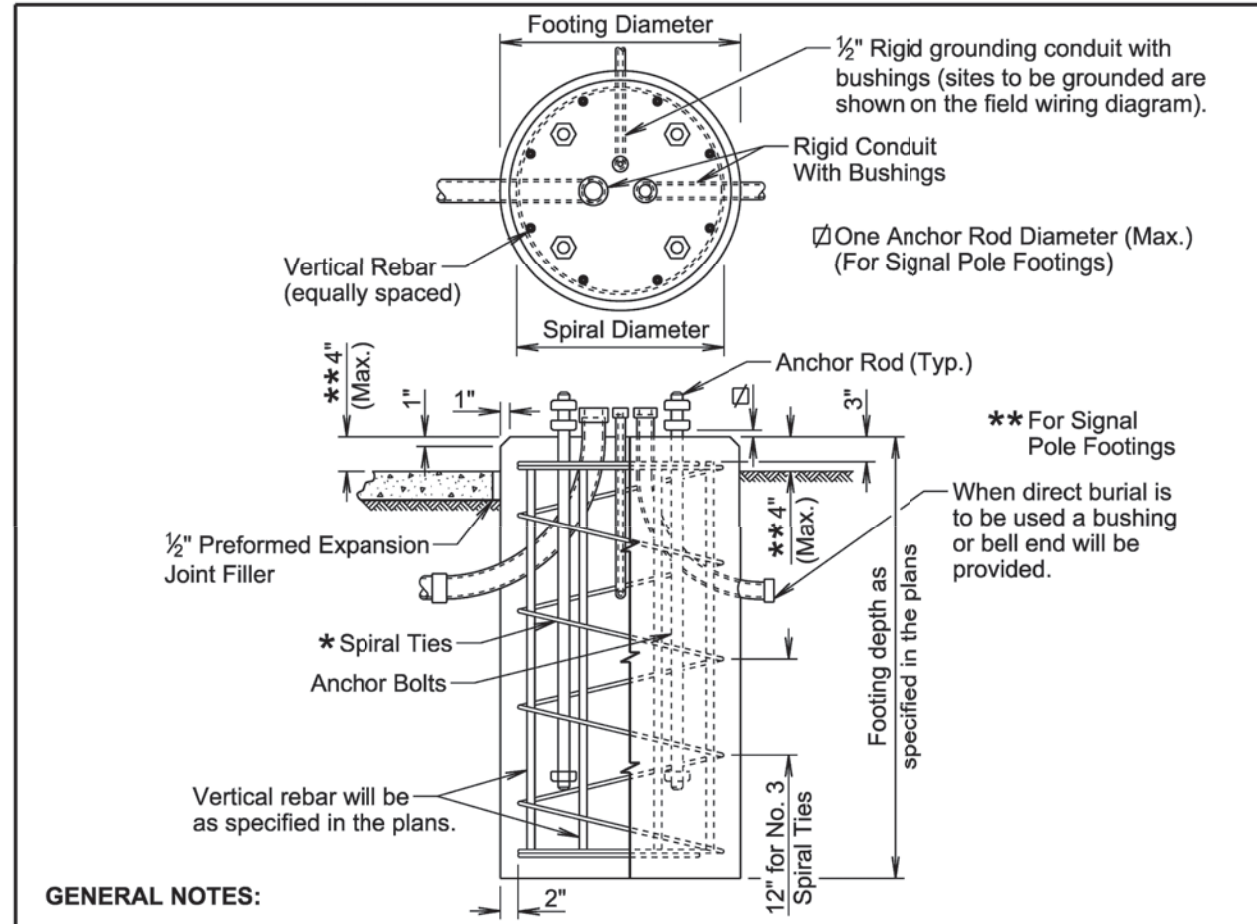
STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 6353(00)	L3	L5

Plotting Date: 1/7/2025



Plotted From: Michael Redenbaugh

File - S:\Projects\26000 - PROJ\26900-26999\26931 - Western Avenue Interchange Approach-Hartford SD\26931 - Civil\Survey\Civil Production Drawings\Section L\26931 L Signal Plans

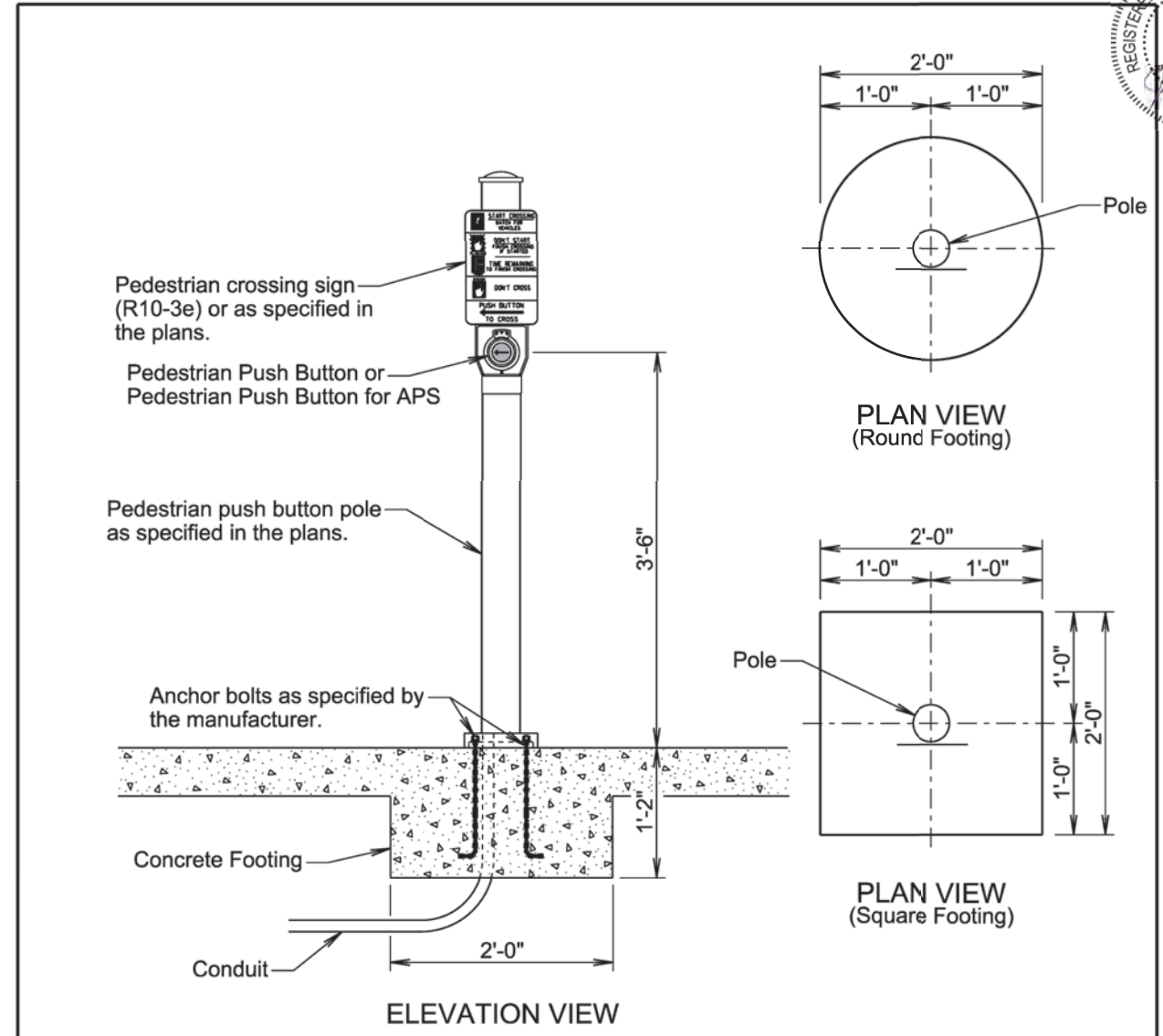


**GENERAL NOTES:**

- \* Circular ties may be used in lieu of the spiral ties. The No. 3 ties will be spaced 12 inches apart except for the top two which will be spaced 6 inches apart. The ties will be lapped 18 inches and the laps will be staggered around the cage.
- Spiral ties will have 1-1/2 extra turns at each end.
- See Section 985 of the Specifications for footing materials.
- Conduits and bushings may project 2 1/2 inches to 6 inches above footing for fixed base poles but will not project above the slip plane or fracture plane for breakaway poles.
- Conduits will be sealed water-tight during all phases of construction until poles are in place.
- The anchor rods will fit inside the reinforcing steel cage. If the anchor rods designed by the Pole Manufacturer do not fit, contact the Office of Bridge Design for footing redesign. No additional payment will be made for the redesigned footing.
- Costs of conduit and conduit bushings shown on footing detail will be incidental to the footing bid item(s).
- The pole will not be installed until the concrete has attained design strength (4000 psi).
- The contour of the area surrounding the breakaway pole will be flat, though not necessarily level for a distance of 5 feet in all directions. The Contractor may be required to provide finish grading at some breakaway pole locations.

November 19, 2022

Published Date: 2024	S D D O T	POLE FOOTING	PLATE NUMBER 635.55
			Sheet 1 of 1

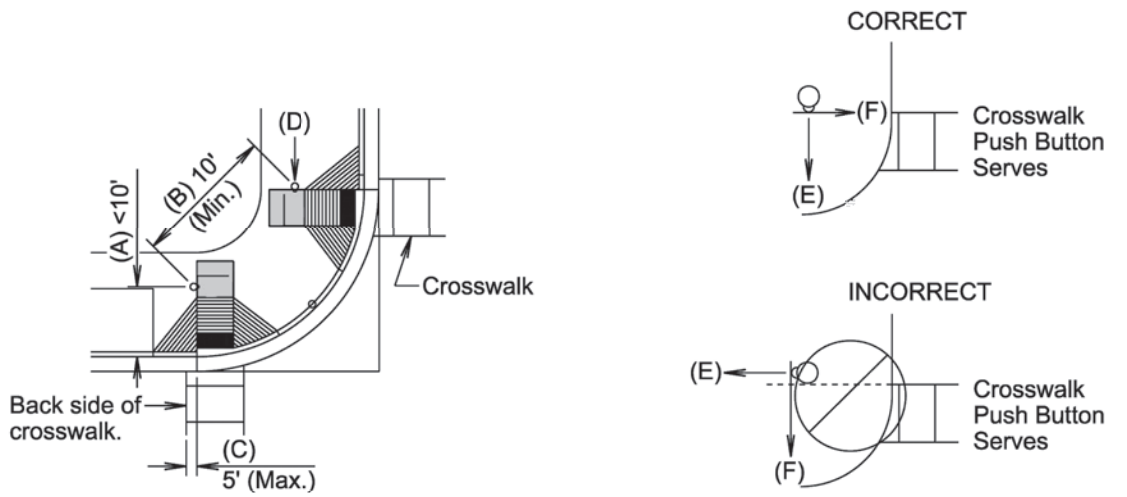


**GENERAL NOTES:**

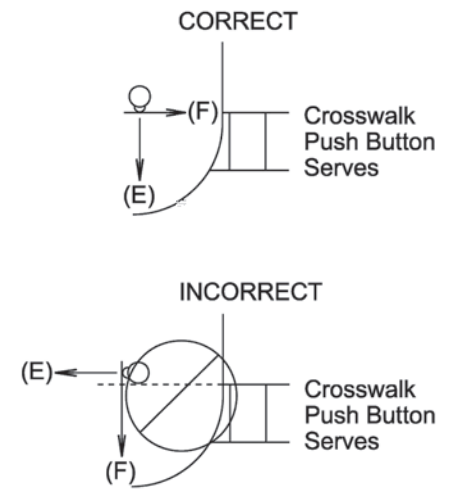
- The pedestrian push button pole will be as specified in the plans.
- The Contractor will install either the round or the square concrete footing. For informational purpose, the quantity of concrete for one footing is 0.14 cubic yards for the round footing and 0.17 cubic yards for the square footing.
- The concrete for the footing will be class M6 concrete.
- All costs for furnishing and installing the concrete footing will be incidental to the contract unit price per square foot for the corresponding concrete sidewalk bid item.
- All costs for furnishing and installing the pedestrian push button pole including labor, equipment, and materials including the pole, cap, and the conduit in the footing will be incidental to the contract unit price per each for "Pedestrian Push Button Pole".

May 9, 2020

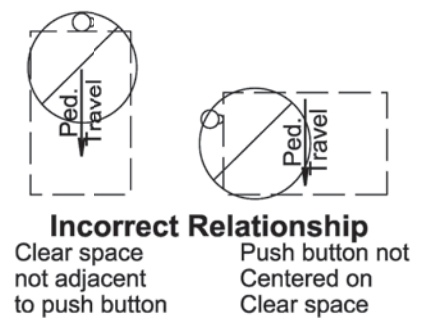
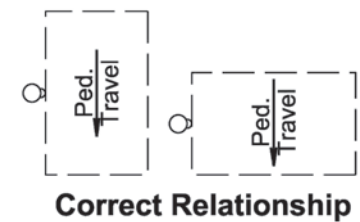
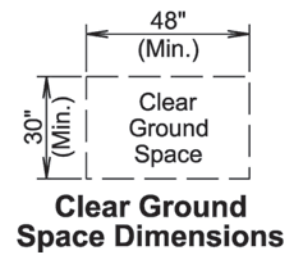
Published Date: 2024	S D D O T	PEDESTRIAN PUSH BUTTON POLE	PLATE NUMBER 635.57
			Sheet 1 of 2



**Push Button Relationship To Curb Ramp And Crosswalk**



**Push Button Orientation To Crosswalk**



**General Notes:**

**Pedestrian Push Buttons Location and Orientation Requirements:**

- (A) Within 10 feet from the front face of curb.
- (B) Where two push buttons are provided, the push buttons should have at least 10 feet of separation from each other.
- (C) If two curb ramps are used, the push button should be within 5 feet of the backside of the crosswalk.
- (D) The push button should be mounted adjacent to a clear ground space (within 10 inches maximum reach). The clear ground space will be a least 30 inches x 48 inches and will slope no more than 50:1 (2%) in any direction. The push button will be centered on either side of the clear ground space (either the 30 inch or 48 inch side). The 30 inch x 48 inch clear ground space shouldn't touch the detectable warning panel.
- (E) The push button should face the edge of roadway.
- (F) The push button face should be parallel to the crosswalk being used.

The push button poles will not interfere with the minimum clear width of the Pedestrian Access Route.

May 9, 2020

<i>Published Date: 2024</i>	<b>S D D O T</b>	<b>PEDESTRIAN PUSH BUTTON POLE</b>	PLATE NUMBER <b>635.57</b>
			Sheet 2 of 2