

MCDOT DETAIL

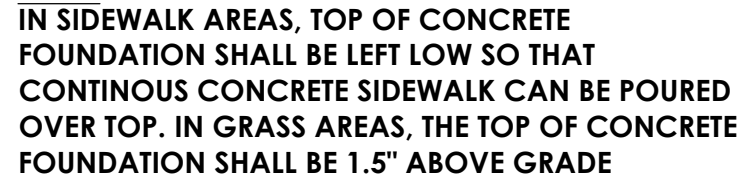


MCDOT DETAIL

1. TOP OF SIGNAL HEAD ATTACHMENT POINT TO BE SEALED WITH U.V. RESISTANT SILICONE TO PREVENT WEATHER INTRUSION.
2. HOLE IN MAST ARM TO HAVE RUBBER BUSHING TO PREVENT CABLE CHAFFING.
3. DRIP LOOP REQUIRED IN CABLE BETWEEN MAST ARM AND SIGNAL HEAD.
4. CABLE CLAMP AND ASSOCIATED HARDWARE TO BE TORQUED PER MANUFACTURER SPECIFICATIONS.
5. CORD CONNECTOR OR STRAIN RELIEF REQUIRED WHERE CABLE ENTERS THE SIGNAL HEAD



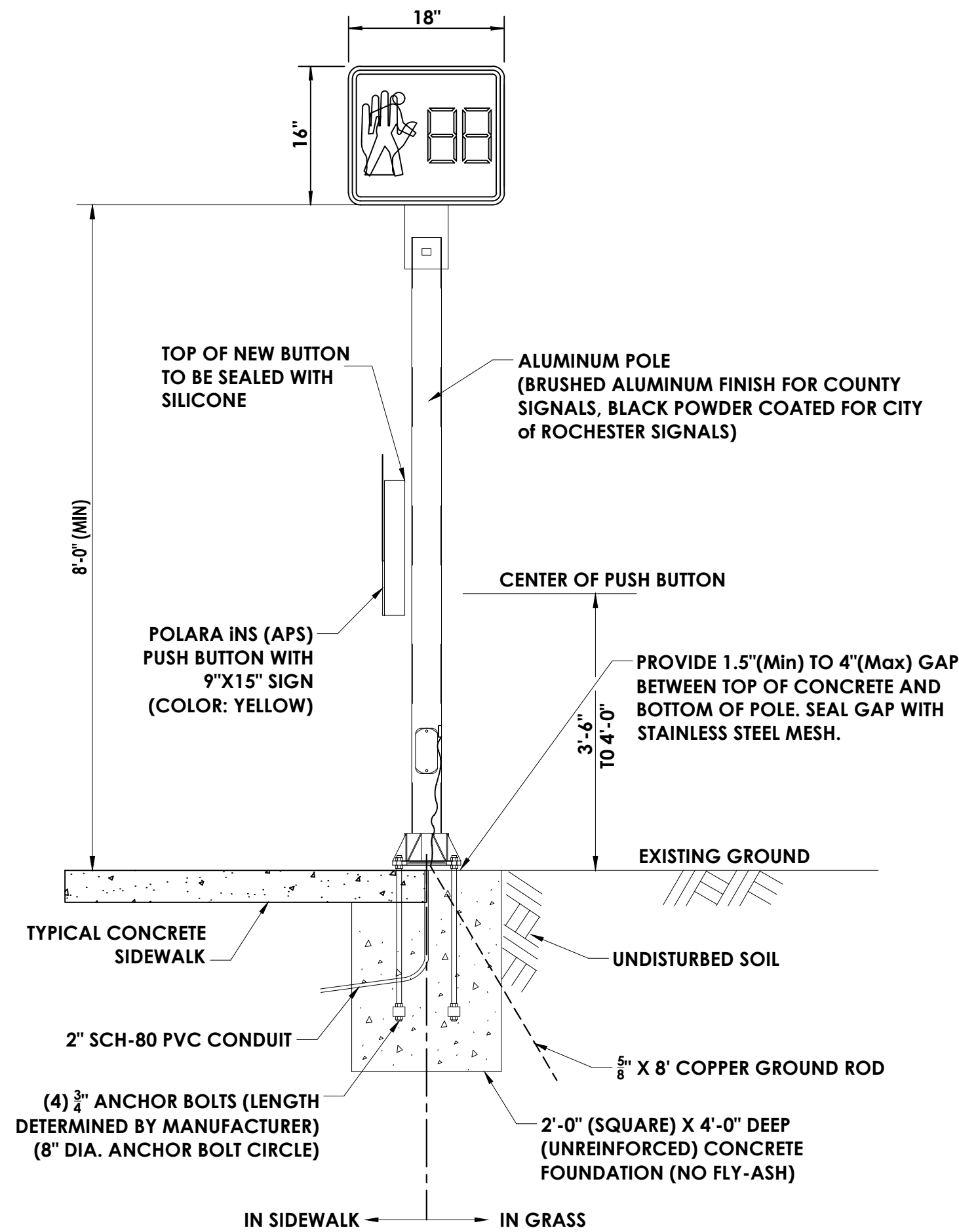
1. POLES SHALL BE ADJUSTED BY USE OF THE LEVELING NUTS ON THE ANCHOR BOLTS SO THAT THEY ARE VERTICAL WHEN ALL SIGNAL HEADS AND SIGNS ARE INSTALLED.
2. ANCHOR BOLTS SHALL HAVE THREE THREAD SHOWING ABOVE THE TOP NUT.
3. POLES SHALL BE LOCATED NO CLOSER TO THE ROADWAY OR CURB THAN THE LINE OF FIXED OBJECTS IN THE IMMEDIATE AREA AND IN NO CASE LESS THAN 2' FROM THE ROADWAY OR CURB.
4. BEARING SURFACE OF HOLE SHALL BE UNDISTURBED GROUND OR COMPACTED SOIL. IF A FORM IS REQUIRED OR PRECAST BASE IS USED, IT SHALL BE AS A.O.B.E.. POLE FOUNDATION MAY BE REQUIRED TO BE NARROWED AND DEEPENED TO AVOID INTERFERING UTILITIES IN SPECIFIC LOCATIONS. ALLOWANCE FOR ANY ADJUSTMENT NECESSARY TO BE INCLUDED IN PRICE BID FOR POLE FOUNDATION.
5. LANE DESIGNATION SIGNS SHALL BE CENTERED ON THE TRAVEL LANES.
6. FOR MOST ARM LENGTHS 40' AND SHORTER, THE 4-SECTION HEADS WITH FLASHING YELLOW ARROWS (IF PRESENT) SHALL BE LOCATED TO THE LEFT OF THE " LEFT TURN ONLY " SIGN. FOR MOST ARM LENGTHS GREATER THAN 40', THE 4-SECTION HEAD SHALL BE TO THE RIGHT OF THE SIGN.
7. ANY MOST ARMS LONGER THAN 40' WILL REQUIRE A NYSDOT-APPROVED VIBRATION MITIGATION DEVICE TO BE INSTALLED (COST TO BE INCLUDED IN PRICE BID FOR THE MOST ARM).



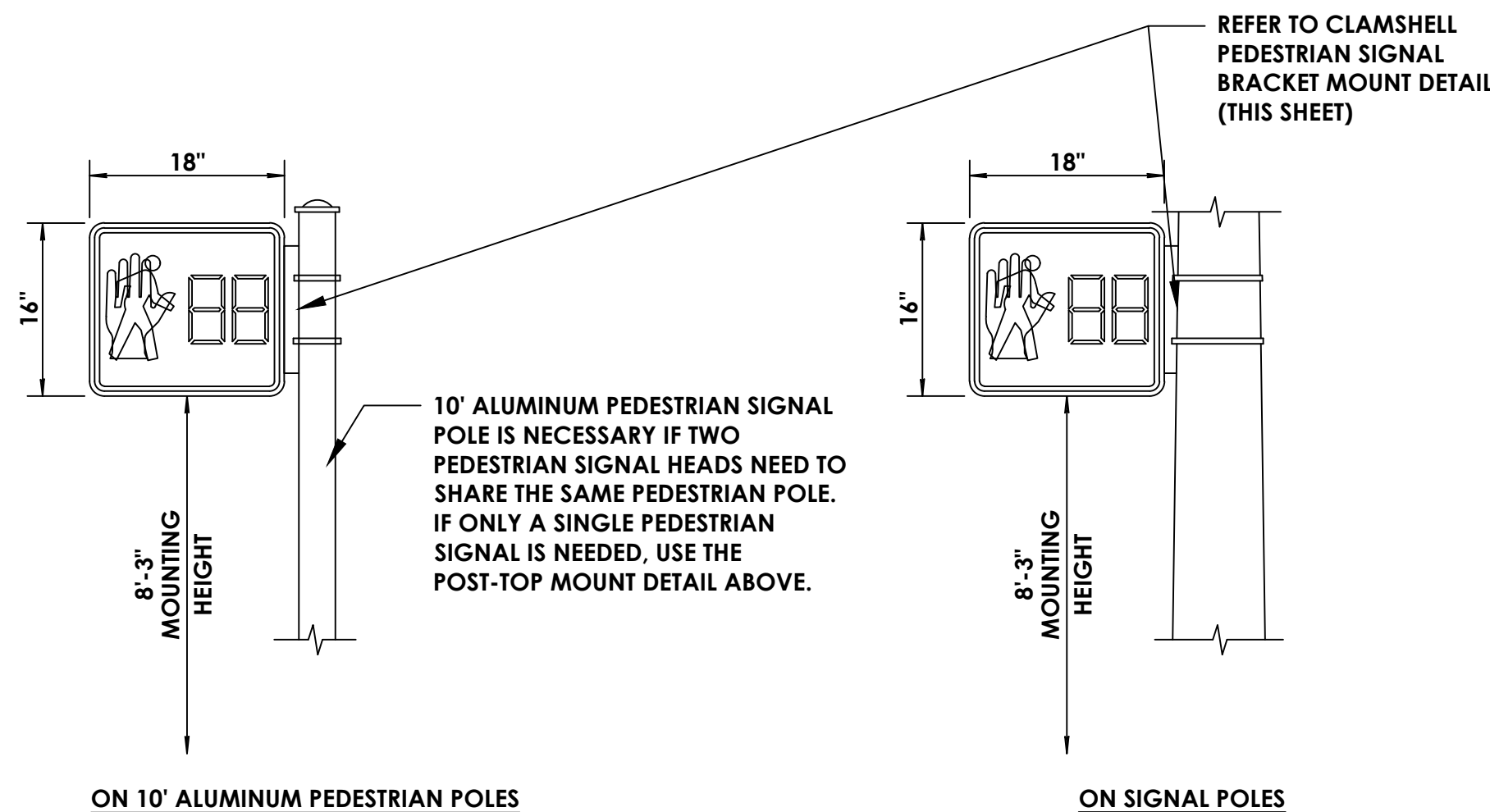
LOOK NYSDOT STANDARD SHEET FOR
FOUNDATION SIZE AND REINFORCEMENT

MCDOT DETAIL - REV. 08/09/2024

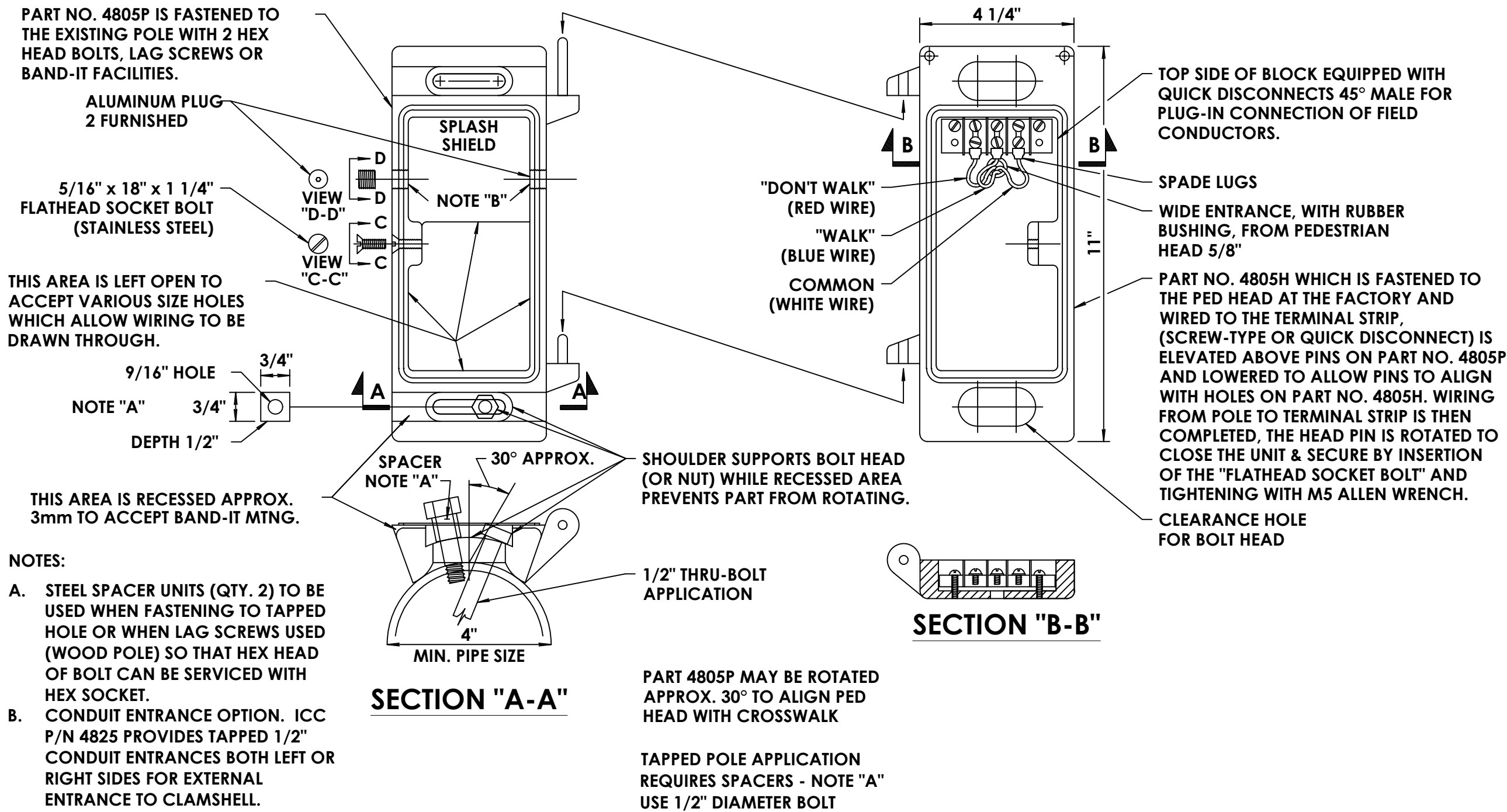
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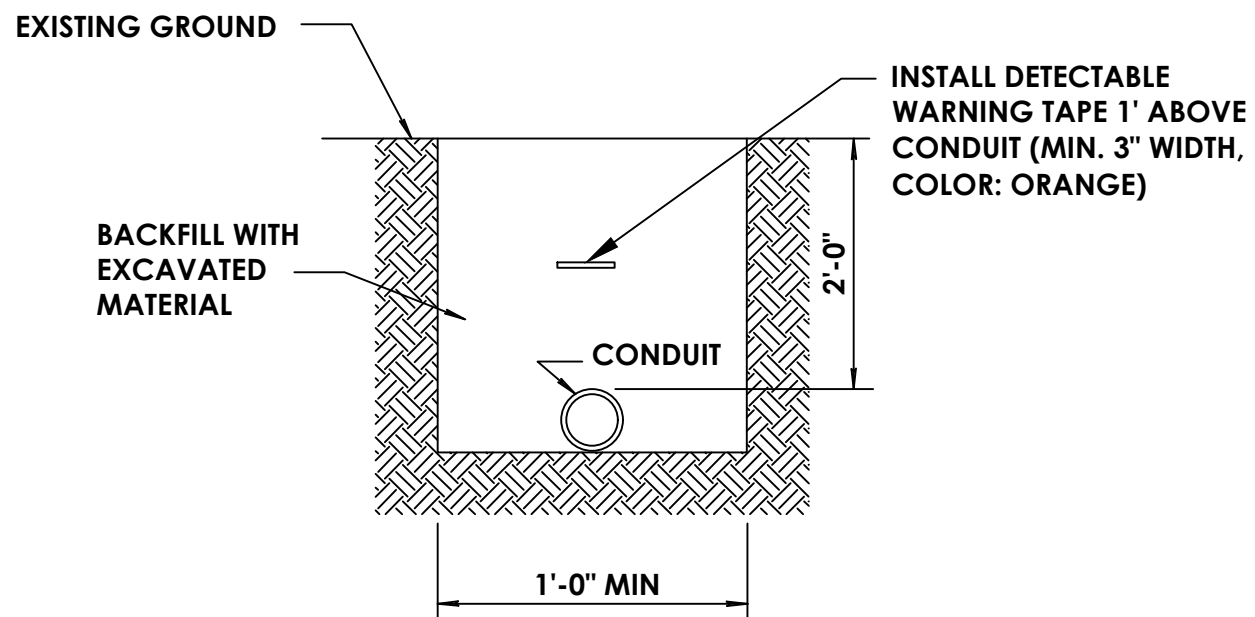
ALUMINUM PEDESTRIAN POLE - 8' POST-TOP MOUNT
MCDOT DETAILS - REV. 7/15/2024



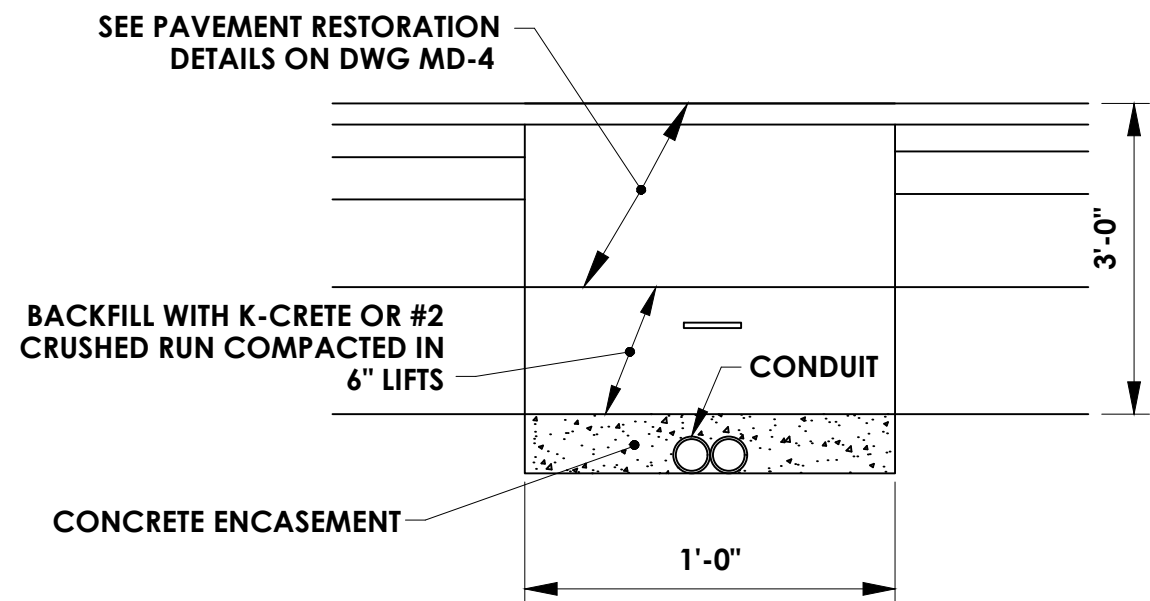
CLAMSHELL PEDESTRIAN SIGNAL INSTALLATIONS
MCDOT DETAIL - REV. 6/10/2024



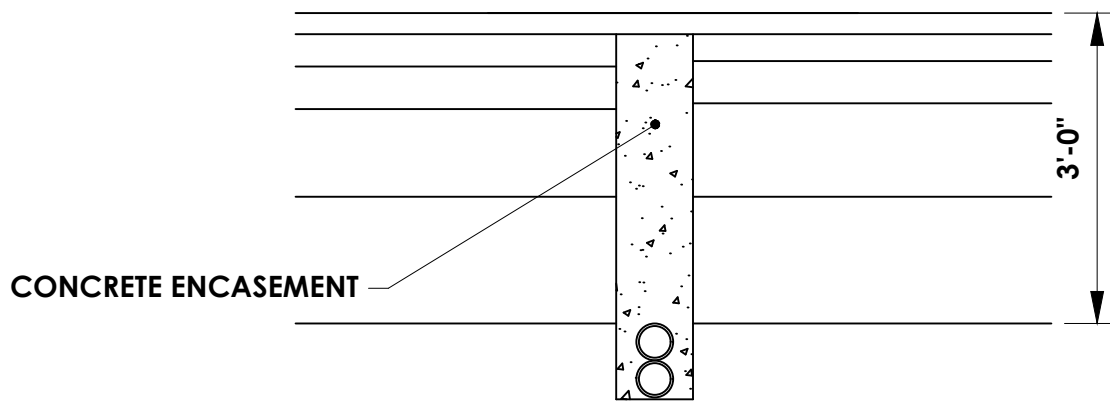
CLAMSHELL PEDESTRIAN SIGNAL BRACKET MOUNT
MCDOT DETAIL - REV. 3/4/2015



CONDUIT TRENCH IN GRASS
MCDOT DETAIL - REV 2/20/2024



CONDUIT TRENCH IN PAVEMENT
MCDOT DETAIL - REV 7/15/2024



- NOTES:
1. TYPICAL DEPTH OF CONDUIT UNDER ROAD SHALL BE 3'-0" AS SHOWN. IF UTILITY CONFLICTS EXIST, A MINIMUM DEPTH OF 24" SHALL BE UTILIZED.
 2. CONDUIT(S) INSTALLED UNDER THE PAVEMENT USING A VERMEER CUT, SHALL BE ENCASED IN CONCRETE UP TO THE TOP OF ASPHALT BINDER GRADE
 3. EMPTY CONDUITS SHALL HAVE A TRACER WIRE AND A JET-LINE INSTALLED.

CONDUIT TRENCH IN PAVEMENT (VERMEER CUT)
MCDOT DETAIL - REV. 7/15/2024

CONSULTANT										CONSULTANT									
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ROCHESTER, NEW YORK 14614-1231
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ARTICLE 145, SECTION 7209

COUNTY ROAD		#	
PROJECT NAME		LIMITS	
PROJECT LIMITS		TOWN	
CAPITAL PROJECT NO.		XXXX-XX	

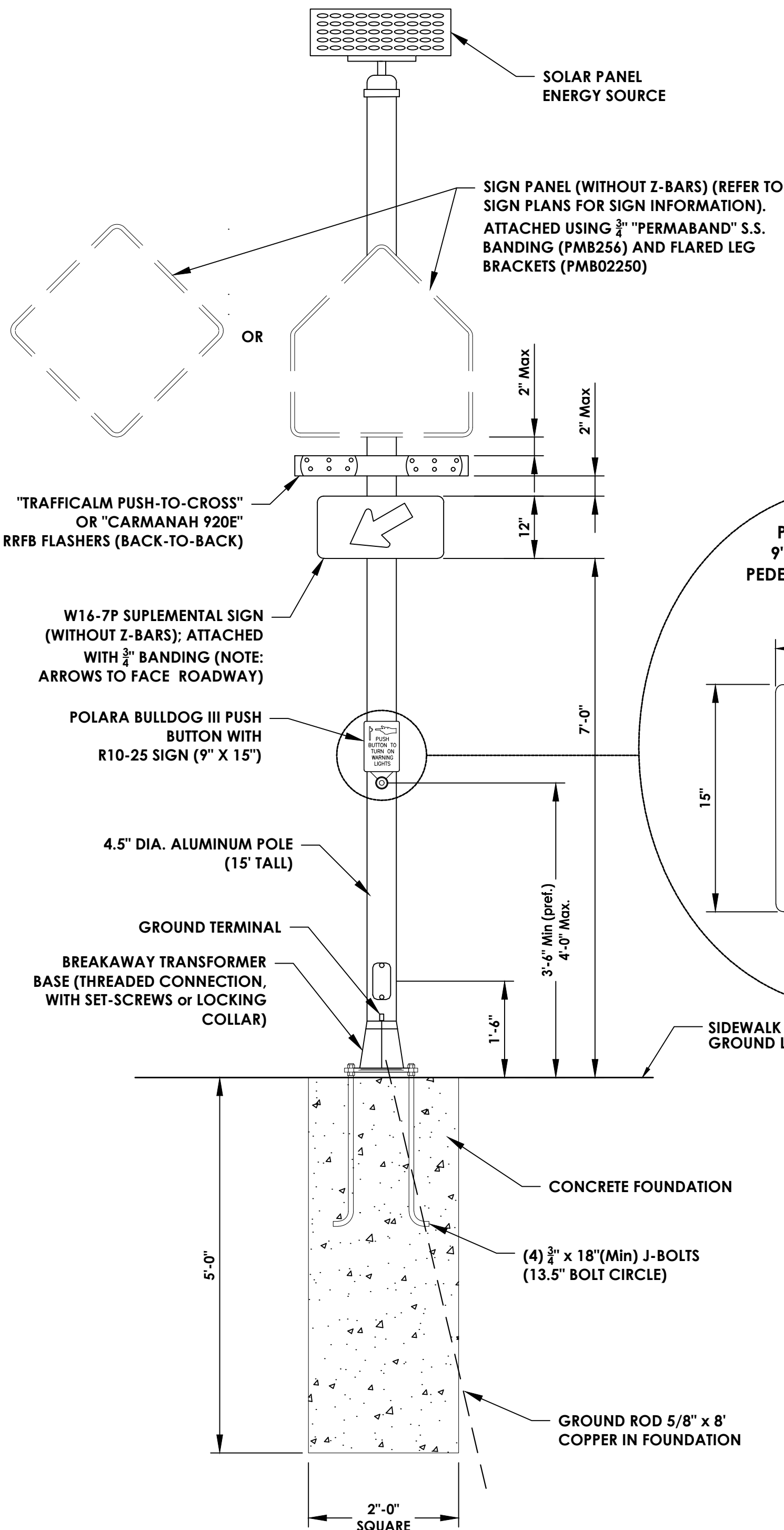
TRAFFIC SIGNALS

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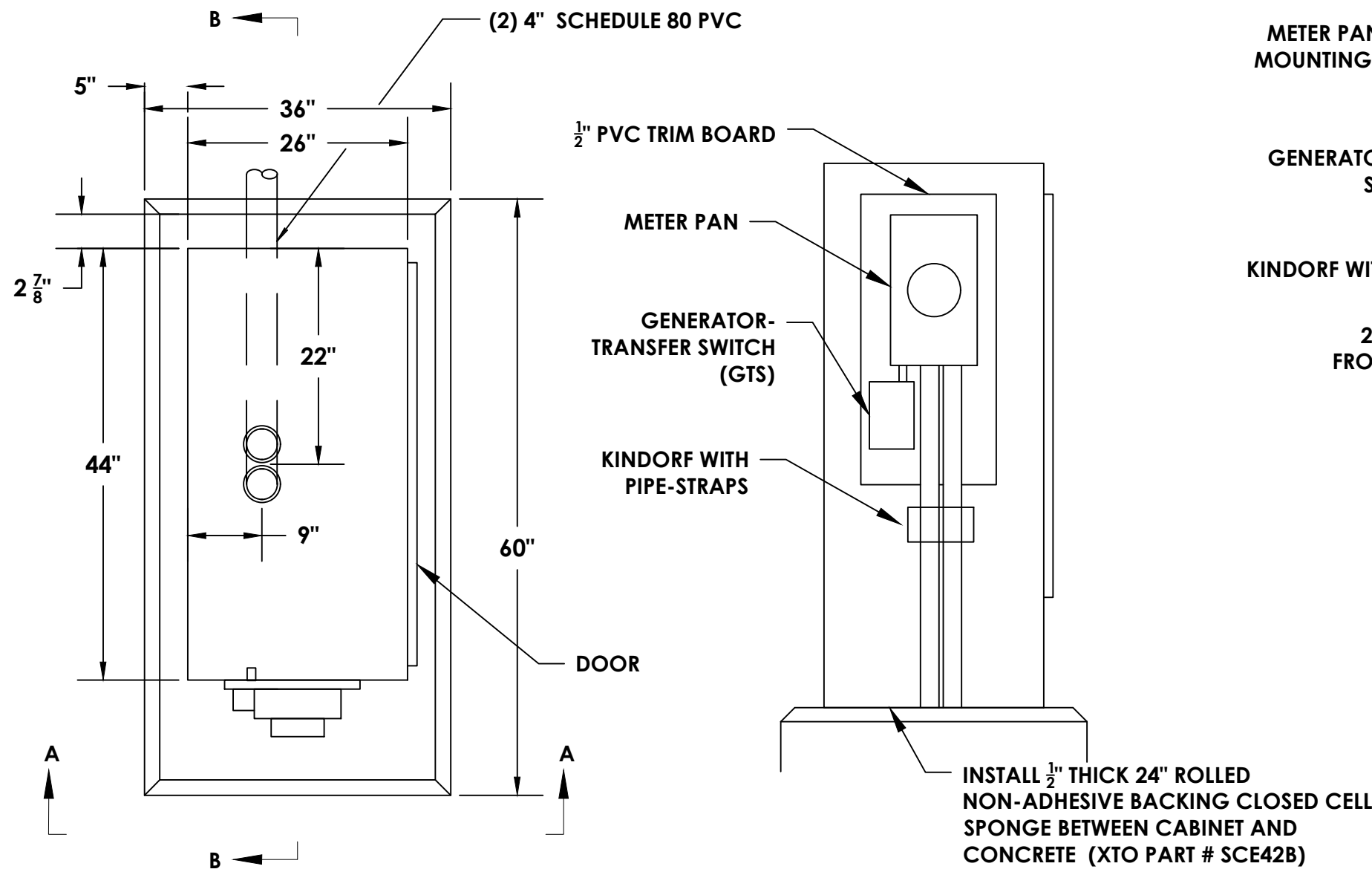
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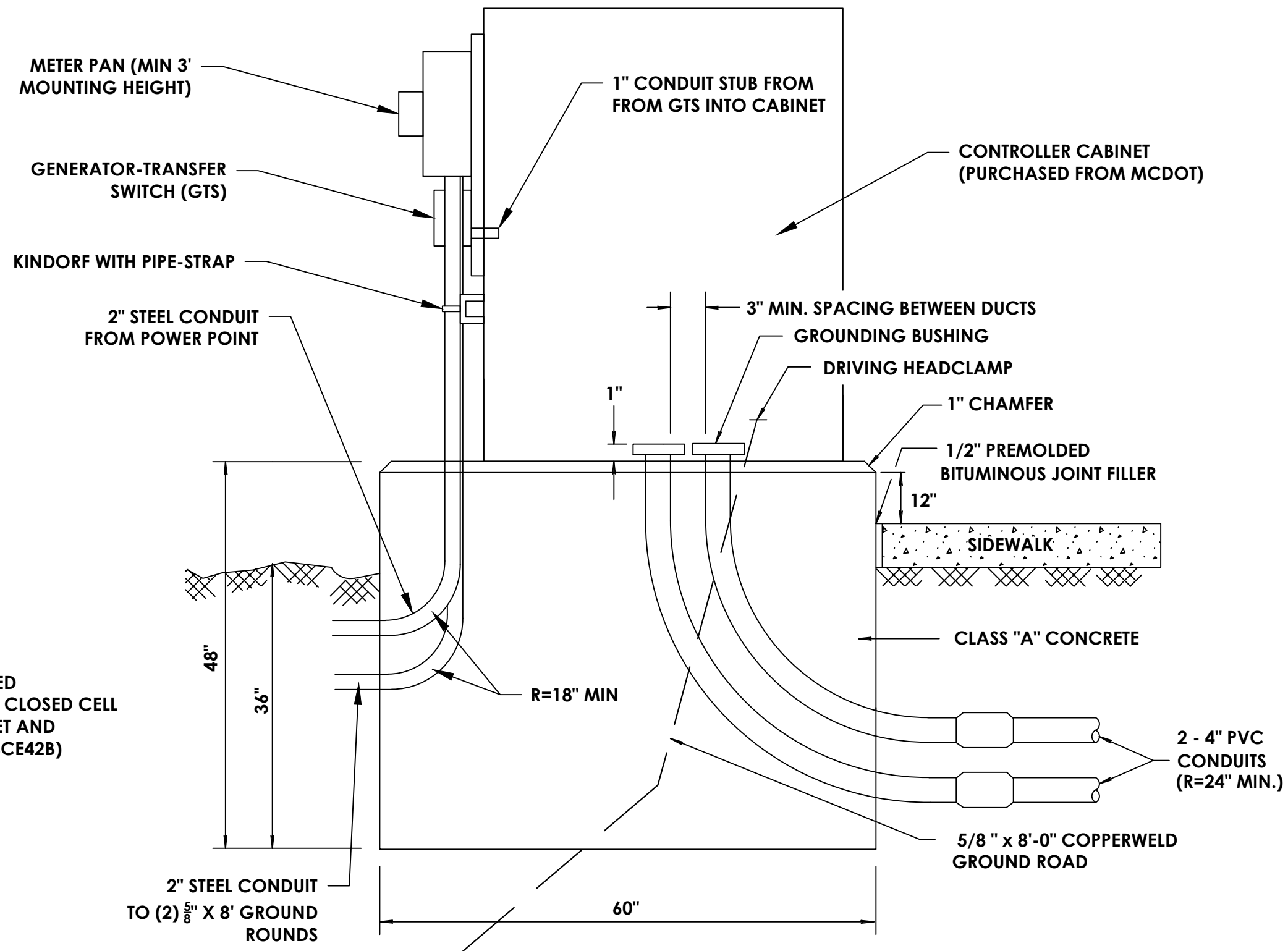


SOLAR RAPID RECTANGULAR FLASHING BEACON ASSEMBLY (RRFB)
MCDOT DETAIL - REV. 7/15/2024



CONCRETE CONTROLLER BASE (CABINET, METER, AND DISCONNECT)
MCDOT DETAIL - REV. 7/15/2024

VIEW A-A



NOTES:

- IN UNPAVED AREAS A MIN. 5' X 5' X 4" CONCRETE WORK PAD SHALL BE PLACED IN FRONT OF THE CABINET DOOR. (COST TO BE INCLUDED IN ITEM 680.5002)
- CONCRETE EXPANSION JOINT MATERIAL ($\frac{1}{2}$ " X 4" (MIN)) SHALL BE PLACED BETWEEN THE WORK PAD AND THE CABINET BASE.
- TWO GROUND RODS TO BE INSTALLED 6' FROM METER AND 10' FROM APART (FACING DOOR OF CABINET).

VIEW B-B

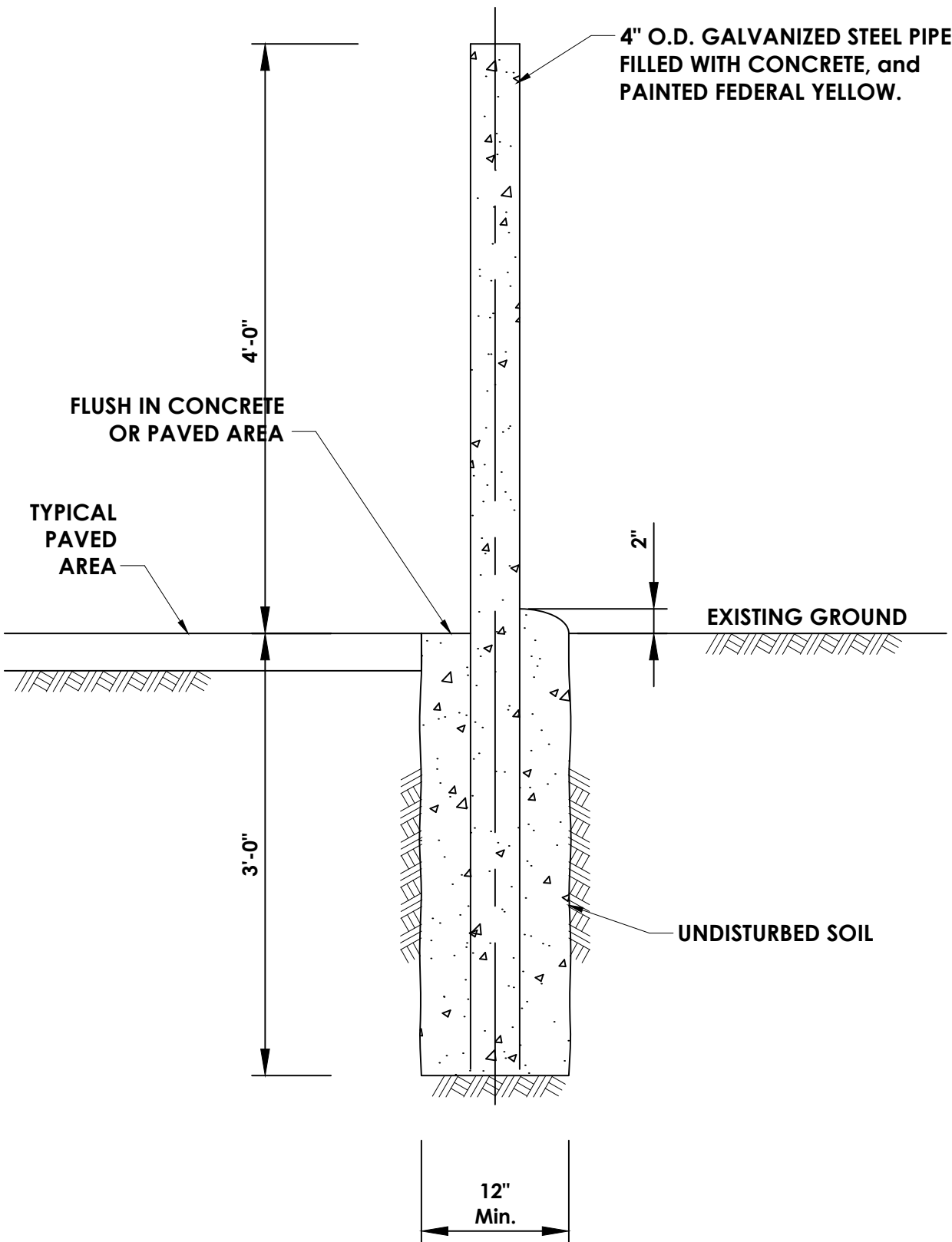
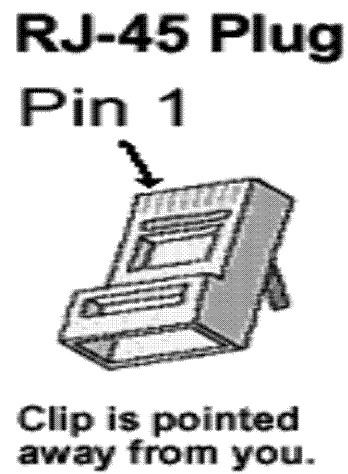
MCDOT STANDARD FOR INTERSECTION and COMMUNICATION WIRING

MCDOT DISCONNECT WIRING GUIDE FOR SPAN WIRE INTERSECTIONS		
Terminal Number	Conductor Color	Indication Type
1	BLACK	Left Turn Green
2	BLUE	Left Turn Yellow
3	GREEN	Green Ball
4	ORANGE	Yellow Ball
5	RED	Red Ball
6	BLACK/WHITE	Left Turn Green
7	BLUE/BLACK	Left Turn Yellow
8	GREEN/BLACK	Green Ball
9	ORANGE/BLACK	Yellow Ball
10	RED/BLACK	Red Ball
11	BLACK/RED	Left Turn Green
12	BLUE/WHITE	Left Turn Yellow
13	GREEN/WHITE	Green Ball
14	ORANGE/RED	Yellow Ball
15	RED/WHITE	Red Ball
16	WHITE/RED	Neutral
17	WHITE/BLACK	Neutral
18	WHITE	Neutral
ANY REMAINING CONDUCTORS ARE SPARES		

MCDOT WIRING GUIDE FOR MAST ARM INTERSECTIONS	
Conductor Color	Indication Type
RED	Red Ball
ORANGE	Yellow Ball
GREEN	Green Ball
BLACK	Green Left Turn
BLUE	Yellow Left Turn
WHITE	Neutral
ANY REMAINING CONDUCTORS ARE SPARES	

MCDOT WIRING GUIDE FOR PEDESTRIAN INDICATORS and PUSH BUTTONS	
Conductor Color	Indication Type
RED	Don't Walk
GREEN	Walk
WHITE	PED Enclosure Neutral
BLACK	Push Button Power
ORANGE	Push Button Neutral
ANY REMAINING CONDUCTORS ARE SPARES	

ETHERNET RJ-45 PLUG WIRING GUIDE	
WHITE/ORANGE	1
ORANGE	2
WHITE/GREEN	3
BLUE	4
WHITE/BLUE	5
GREEN	6
WHITE/BROWN	7
BROWN	8
Version: (B) ON RJ-45 CRIMPER	



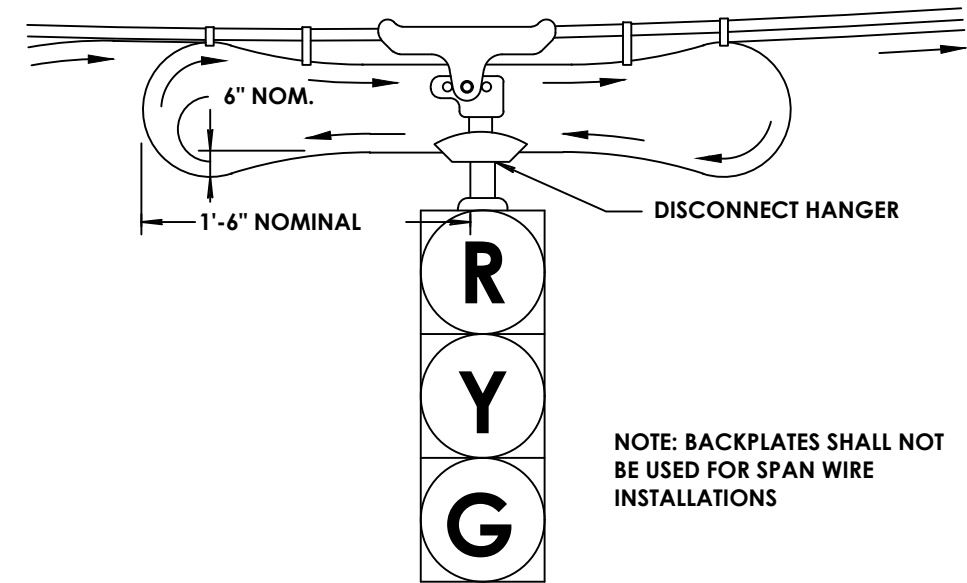
NOTES:

- BOLLARDS SHALL BE A MIN 12" AWAY FROM TRAFFIC SIGNAL CABINET.
- CONSULT MCDOT FOR FINAL FIELD PLACEMENT

STEEL BOLLARD
MCDOT DETAILS - REV. 6/10/2024

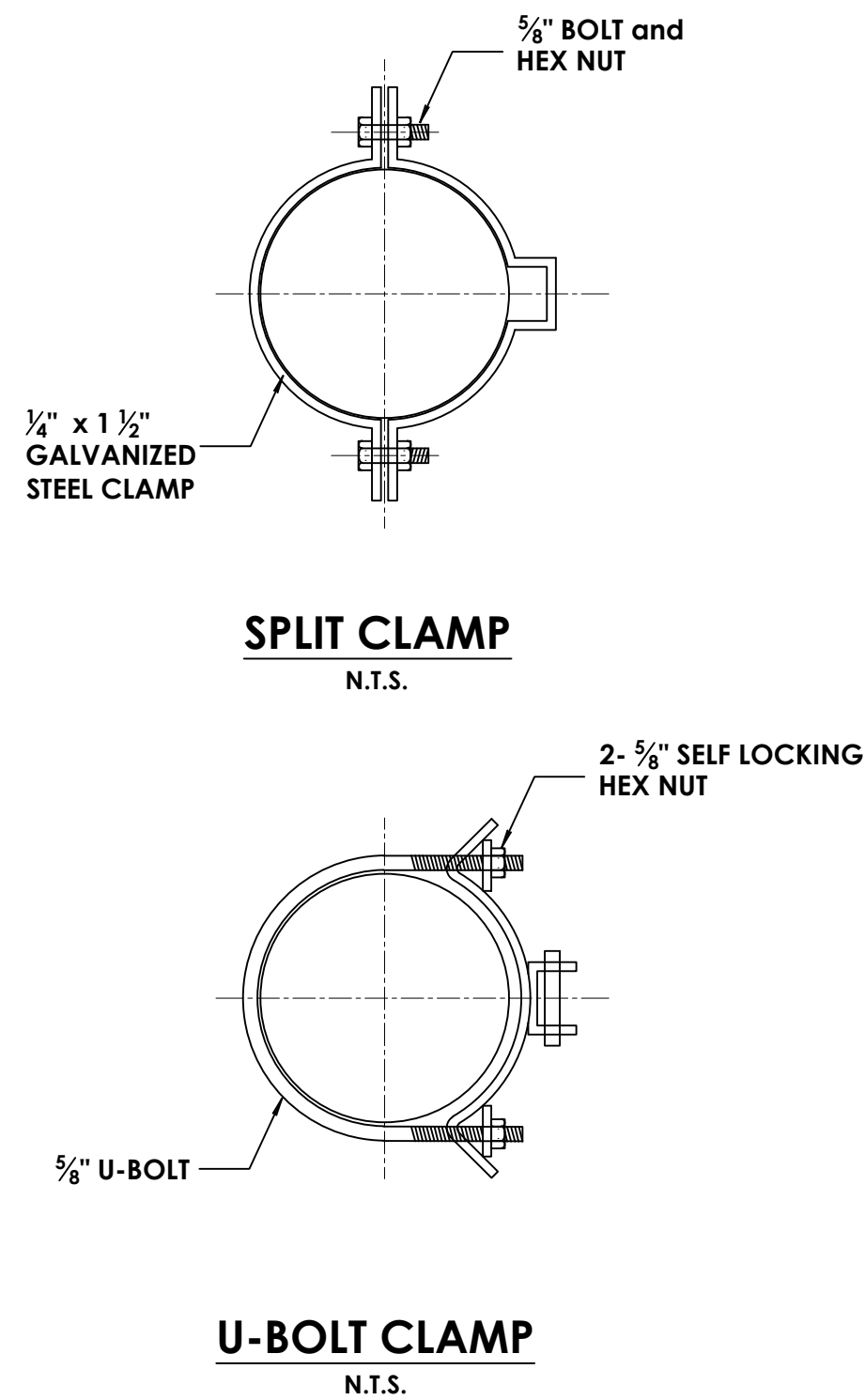
NOTE(s): All Spare wires in the "MCDOT DISCONNECT WIRING GUIDE FOR SPAN WIRE INTERSECTIONS" table should be landed to the "DISCONNECT TERMINAL BLOCK". All Spare wires in the "MCDOT WIRING GUIDE FOR MAST ARM INTERSECTIONS" table should be taped up with electrical tape and identified as "SPARE". All Spare wires in "MCDOT WIRING GUIDE FOR PEDESTRIAN INDICATORS and PUSH BUTTONS" table should be taped up with electrical tape and identified as "SPARE". When making up an RJ-45 ethernet plug work from "Left to Right" with the plug clip facing away from you, this will place "Pin 1" on the left side of the RJ-45 ethernet plug.

CONSULTANT		DEPARTMENT OF TRANSPORTATION		COUNTY ROAD	
Consultant Address Rochester, New York XXXX		50 WEST MAIN STREET, SUITE 6100 ROCHESTER, NEW YORK 14614-1231		#	
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		DRAWING NO.		PROJECT LIMITS	
		3 OF 4		TOWN	



NOTES:

1. TOP OF SIGNAL HEAD ATTACHMENT POINT TO BE SEALED WITH SILICONE TO PREVENT WEATHER INTRUSION.
2. CORD CONNECTOR OR STRAIN RELIEF REQUIRED WHERE CABLE ENTERS THE DISCONNECT HANGER.
- 3.
4. DRIP LOOP TO BE SECURED TO OVERHEAD CABLE WITH ELECTRICAL TAPE TO PREVENT MOVEMENT DURING WEATHER.



MCDOT DETAIL - REV. 7/15/2024

- A. POLES SHALL BE ADJUSTED BY USE OF THE NUTS ON THE ANCHOR BOLTS SO THAT THEY ARE VERTICAL WHEN ALL SIGNAL HEADS AND SIGNS ARE INSTALLED.
- B. POLES SHALL BE LOCATED NO CLOSER TO THE ROADWAY OR CURB THAN THE LINE OF FIXED OBJECTS IN THE IMMEDIATE AREA AND IN NO CASE LESS THAN 2' FROM THE ROADWAY OR CURB.
- C. CONCRETE, BAR REINFORCEMENT, BASE AND GROUNDING TO BE PAID FOR UNDER CONCRETE BASE ITEM.
- D. BEARING SURFACE OF HOLE SHALL BE UNDISTURBED GROUND OR COMPACTED SOIL. IF A FORM IS REQUIRED OR ANY SPECIAL TREATMENT REQUIRED IT SHALL BE A.O.B.E.



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