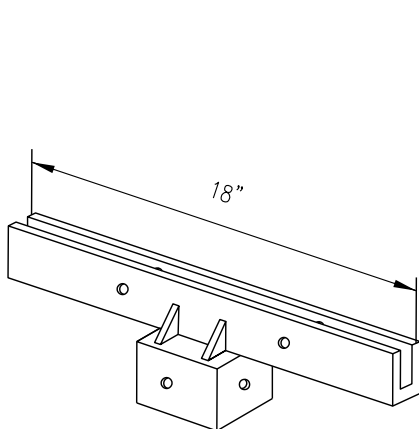
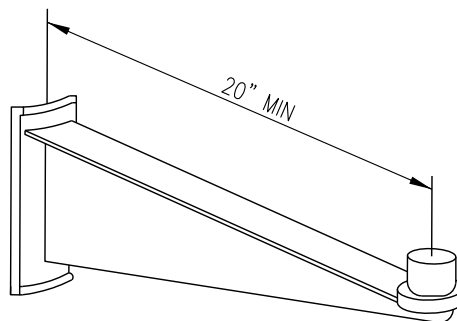


## INSTRUCTIONS FOR FABRICATION AND INSTALLATION OF STREET NAME, DEAD END & NO OUTLET SIGNS

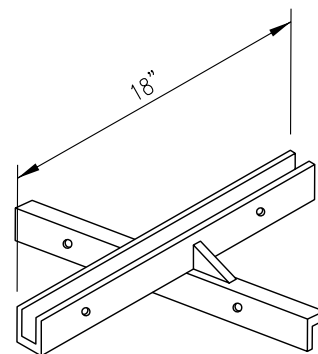
- 1) SIGN BLANK MATERIALS – FOR STANDARD SIZE STREET NAME SIGNS, BLANKS SHALL BE 9" TALL EXTRUDED ALUMINUM PLATE (6063-T6). FOR LARGER SIGNS (WHEN APPROACH SPEED IS 45 MPH OR ABOVE), BLANKS SHALL USE 12" TALL EXTRUDED ALUMINUM PLATE. FOR ROUNDABOUT SIGNS, BLANKS SHALL BE FLAT ALUMINUM SIGN PLATE WITH A MINIMUM THICKNESS OF 0.125 INCH.
- 2) LETTER SIZE
  - a. FOR STANDARD STREET NAME SIGNS AND ROUNDABOUT SIGNS, THE STREET NAME SHALL USE 6 INCH UPPER CAPITAL LETTERS AND 5 INCH LOWER CASE LETTERS. THE SUFFIX AND ADDRESS SHALL USE 3 INCH LETTERS
  - b. FOR SIGNS ON APPROACHES WITH SPEEDS OF 45 MPH OR MORE, THE STREET NAME SHALL USE 8 INCH UPPER CAPITAL LETTERS AND 6.5 INCH LOWER CASE LETTERS. THE SUFFIX AND ADDRESS SHALL USE 4 INCH LETTERS
- 3) ACCEPTABLE SUFFIX'S SHALL BE Ave, Blvd, Ctr, Cir, Ct, Dr, Ln, Loop, Pkwy, Pl, Rd, St, Ter, Trl, Way.
- 4) FONTS – FONTS SHALL BE TYPE C TO START UNTIL IT IS DETERMINED THAT THE TARGET SIGN SIZES, 36" OR LESS FOR STANDARD SIGNS AND 42" OR LESS FOR LARGER SIGNS, CANNOT BE MET. REDUCE LETTER SPACING TO AS LOW AS 70% OF NORMAL (IN 5% INCREMENTS) TO MAINTAIN TARGET SIGN LENGTHS. IF THAT FAILS TO WORK, SWITCH TO B FONT FOR THE ADDRESS FIRST AND IF STILL TOO LARGE SWITCH TO B FONT FOR THE STREET NAME AND ADDRESS. REPEAT SPACING REDUCTION PROCESS WITH B FONT BEFORE MOVING UP TO NEXT BLADE SIZE.
- 5) SPACING – SPACING BETWEEN THE BORDERS, WORDS, AND THE SUFFIX/ADDRESS SHALL BE PER THE EXAMPLES ON TR2
- 6) FOR STREET NAMES WITH LOWER CASE DESCENDERS (I.E. g, j, p, q, y) THE SIGN TEXT MAY MOVED UP TO ENSURE THAT THE DESCENDER HAS CLEAR SPACE FROM THE BORDER. IN SOME CASES THE LOWER CASE LETTERS MAY HAVE TO BE ALIGNED TO THE CENTER VERTICALLY WITH THE UPPER CASE LETTERS INSTEAD OF THE PREFERRED ALIGNMENT ALONG THE BOTTOM BASELINE.
- 7) ONCE ALL OTHER PARAMETERS ARE SET, BALANCE THE HORIZONTAL SPACE BY ADJUSTING THE SPACE BETWEEN THE STREET NAME AND THE SUFFIX/ADDRESS BLOCK TO MATCH THE SPACE BETWEEN THE TEXT AND BORDER AT THE ENDS OF THE SIGN.
- 8) COLORS SHALL BE GREEN WITH WHITE TEXT FOR STANDARD STREETS. BLUE WITH WHITE TEXT FOR PRIVATE STREETS
- 9) DEAD END AND NO OUTLET SIGNS SHALL USE 5C LETTERING (WITH SPACING REDUCED TO 50%) ON A STANDARD 9"x36" EXTRUDED ALUMINUM PLATE WITH FLUORESCENT YELLOW SHEETING AND BLACK TEXT. ARROWS SHALL BE 5" TALL AND 6" LONG.
- 10) SIGN BRACKETS – SIGNS SHALL BE INSTALLED ON THE SIGN POST OR STREET LIGHT STANDARD BY MEANS OF ALUMINUM SIGN BRACKETS AND CROSSPIECES.
- 11) SEE DRAWING TR2 FOR EXAMPLE SIGNS AND TR3 FOR ELEVATIONS AND STANDARD SIGN SIZES.
- 12) SIGN SUBMITTALS SHALL INCLUDE PROOFS THAT INCLUDE THE MUTCD SIGN CODE, SIGN SIZE, AS WELL AS LETTER SIZE AND FONT STYLE.



POST CAP BRACKET



CANTILEVER ARM BRACKET FOR  
STREET LIGHT



CROSS PIECE

### STREET SIGN BRACKETS



## STREET NAME SIGN FABRICATION & INSTALLATION

### PUBLIC WORKS ENGINEERING

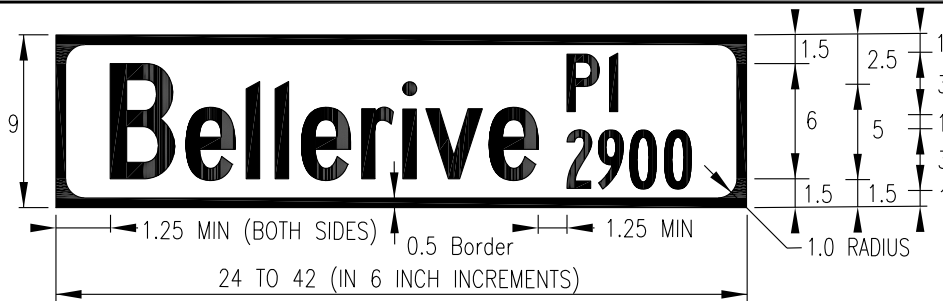
APPR. BY: PKR

DATE: 02.24

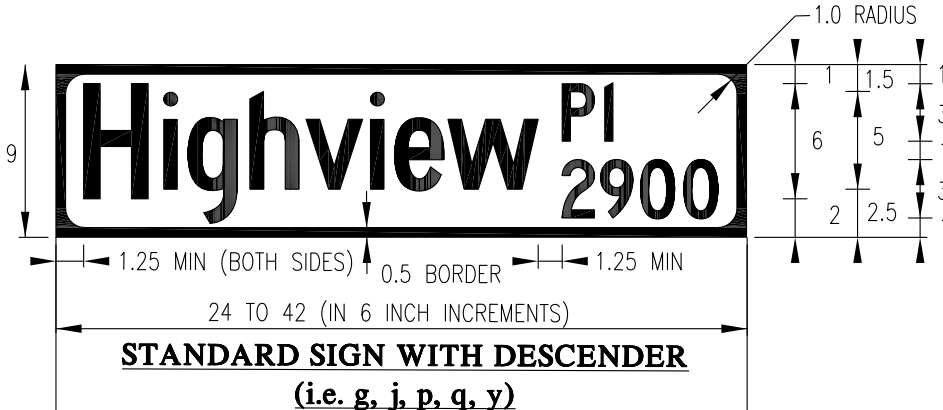
DRAWN BY: EY

DWG: TR1

CAD FILE: 2021\_TR1\_07\_2024

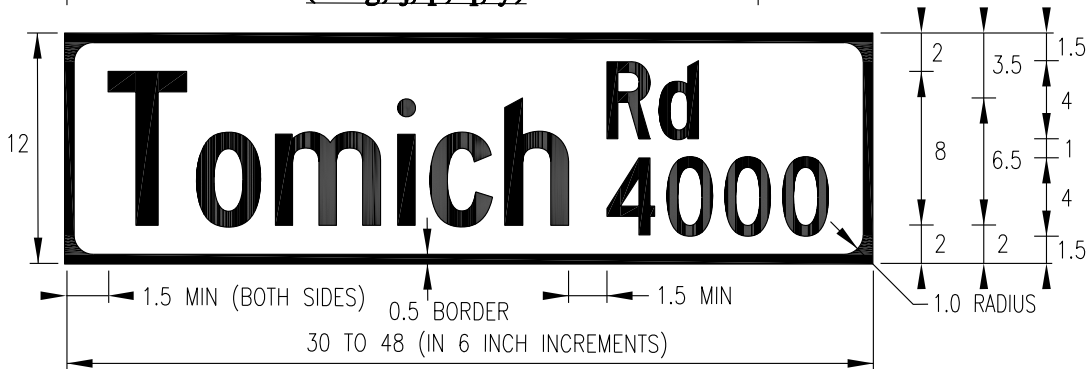


**STANDARD STREET NAME SIGN**

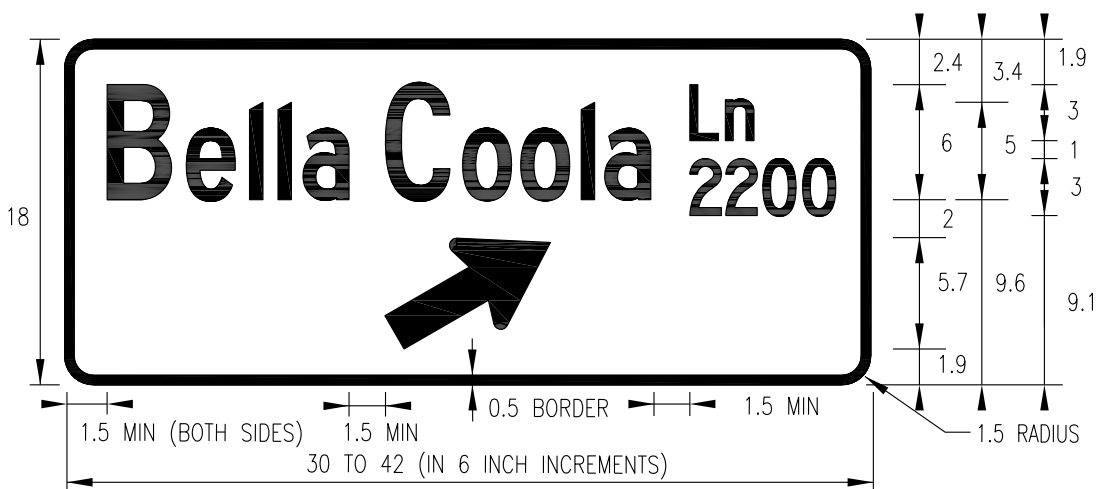


**STANDARD SIGN WITH DESCENDER**

(i.e. g, j, p, q, y)



**SIGN WHEN STREET APPROACH SPEED IS 45 MPH OR ABOVE**



**ROUNDABOUT SIGN**

**NOTES:**

1. ALL DIMENSIONS IN INCHES
2. ARROWS FOR STANDARD SIGNS SHALL BE SIZE 2 WITH 6" LENGTH.
3. FOR 12" SIGNS WITH LOWER CASE DESCENDERS SEE NOTE 6 ON TR1
4. ROUNDABOUT SIGNS GREATER THAN 36" IN LENGTH SHALL USE SIGN BRACE PER STD. DET. TR6.
5. ARROWS FOR ROUNDABOUT SIGNS SHALL BE SIZE 2 ANGLED AT 30 DEGREES WITH A 9.375" LENGTH.



STREET NAME  
SIGN EXAMPLES

PUBLIC WORKS ENGINEERING

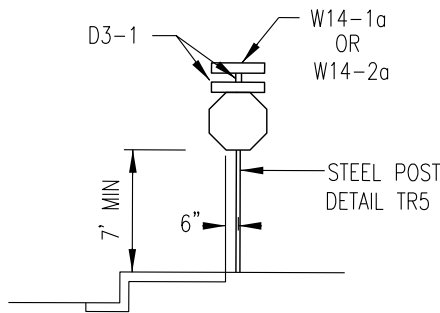
APPR. BY: PKR

DATE: 02.24

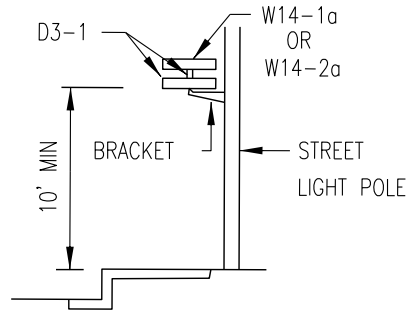
DRAWN BY: EY

DWG: TR2

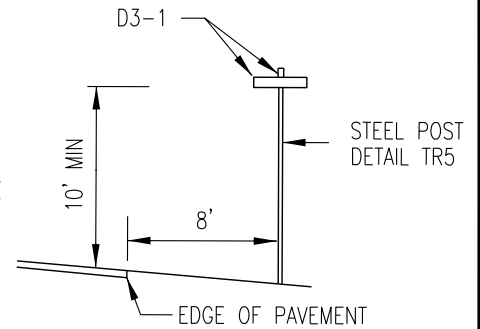
CAD FILE: 2021\_TR2\_07\_2024



**POST MOUNT**

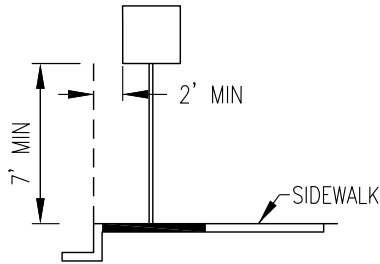


**STREET LIGHT MOUNT**

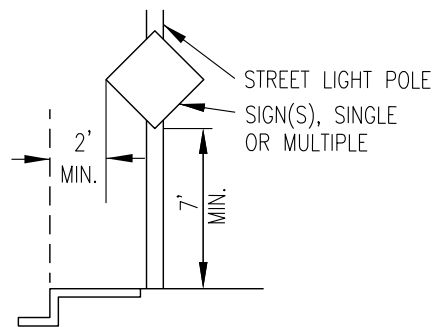


**POST MOUNT, NO CURB**

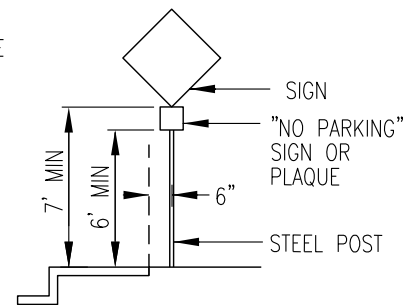
**STREET NAME SIGNS**



**POST MOUNT, PLANTER STRIP  
OR STAMPED CONCRETE**

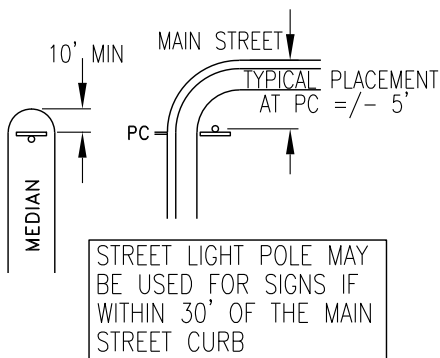


**STREET LIGHT MOUNT**



**POST MOUNT MULTI-SIGN**

**STANDARD SIGNS**



**CORNER SIGN PLACEMENT**

**CITY STANDARD SIGN SIZES**

| SIGN     | TYPE                | SIZE        |
|----------|---------------------|-------------|
| R1-1     | STOP                | 30"X30"*    |
| R1-2     | YIELD               | 36"X36"X36" |
| R2-1(XX) | SPEED LIMIT (SPEED) | 24"X30"     |
| R8-3     | NO PARKING SYMBOL   | 12"X12"     |
| WX-X     | WARNING SIGN**      | PER PLANS   |

**NOTES:**

- SIGNS GREATER THAN 36"X36" SHALL USE FLAT ALUMINUM PLATE WITH 0.125 THICKNESS.
  - GRAFFITI OVERLAY FILM SHALL BE USED ON ALL SIGNS EXCEPT EXTRUDED STREET NAME SIGN BLADES AND CALLED OUT ON PROOFS.
- \* 36"X36" WHEN ON AN APPROACH TO A STREET WITH A SPEED OF 45 MPH OR HIGHER.
- \*\* WARNING SIGNS SHALL USE FLUORESCENT YELLOW SHEETING.



**TYPICAL SIGN  
PLACEMENT &  
STANDARD SIGN SIZES**

**PUBLIC WORKS ENGINEERING**

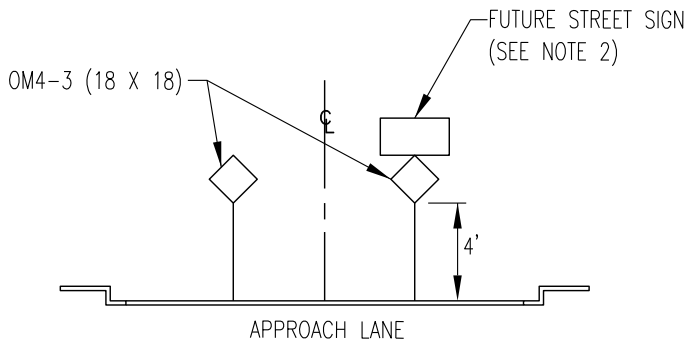
APPR. BY: PKR

DATE: 02.24

DRAWN BY: EY

DWG: TR3

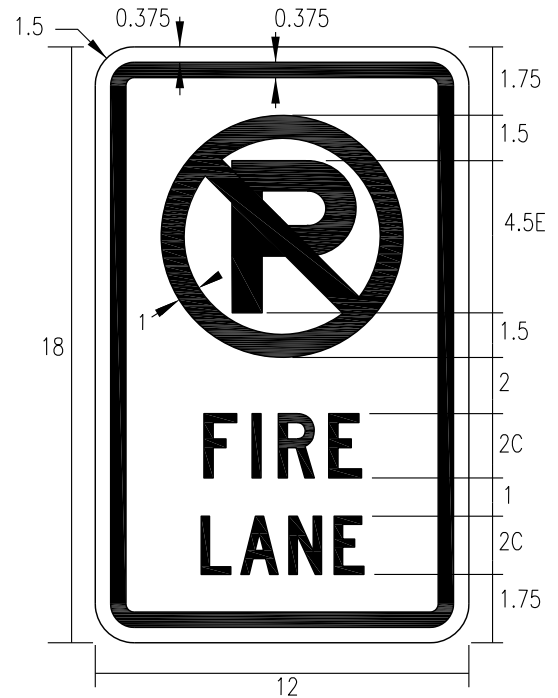
CAD FILE: 2021\_TR3\_07\_2024



### **TYPICAL END OF THE ROADWAY SIGNAGE**

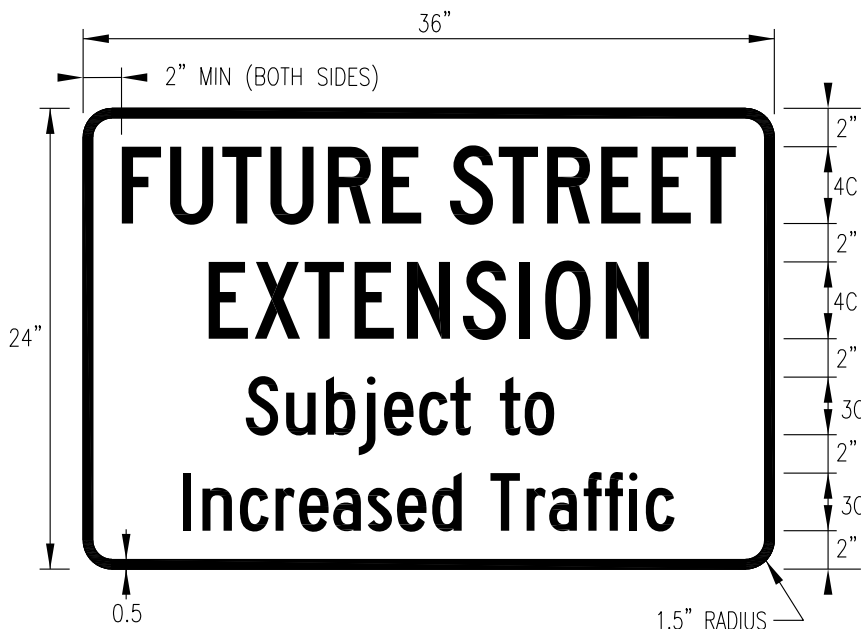
#### **NOTES:**

1. OM4-3 SIGNS ARE TO BE INSTALLED IN THE CENTER OF TRAVEL AND/OR PARKING LANES.
2. ONE "FUTURE STREET EXTENSION" SIGN SHALL BE INSTALLED ABOVE ONE OF THE OM4-3 SIGNS AT THE BOUNDARY EDGES OF PRE-PLATS. THE SIGNS ARE NOT REQUIRED ABOVE INTERIOR PHASES OF THE SAME PRE-PLAT.
3. SIGN SIZES AND MOUNTING HEIGHTS FOR SHARED USE PATH SIGNS SHALL BE PER MUTCD PART 9B.



**NO PARKING FIRE LANE**  
**R8-3(FL)**

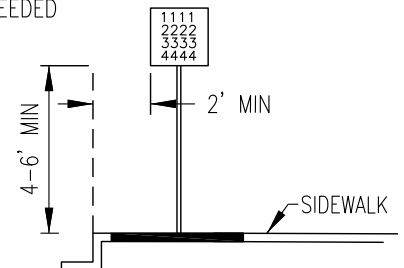
ALL DIMENSIONS ARE IN INCHES, WHITE BACKGROUND WITH RED BORDER, LEGEND AND SYMBOL. LARGE "P" IS BLACK



**FUTURE STREET EXTENSION**

COLOR: BROWN BACKGROUND  
WITH WHITE LETTERS

SIGN DIMENSIONS:  
WIDTH = 18" TO 24"  
HEIGHT = 9" TO 30"  
AS NEEDED



**PRIVATE ADDRESS SIGN**  
(WHEN REQUIRED PER RMC 12.01.140.C)

#### **NOTES:**

1. SIGN SHALL BE BLUE WITH WHITE LETTERS NO BORDER. MINIMUM FONT SIZE PER TABLE 2D-2 OF MUTCD.
2. SIGN MOUNTED PARALLEL TO STREET WITH POST PLACED ONE FOOT BEHIND SIDEWALK (IF PRESENT).
3. SIGN TO BE MOUNTED OUTSIDE THE VISION CLEARANCE TRIANGLE PER RMC 12.11



## MISCELLANEOUS SIGNS

PUBLIC WORKS ENGINEERING

APPR. BY: PKR

DATE: 07.22

DRAWN BY: EY

DWG: TR4

CAD FILE: 2021\_TR4\_07\_2022

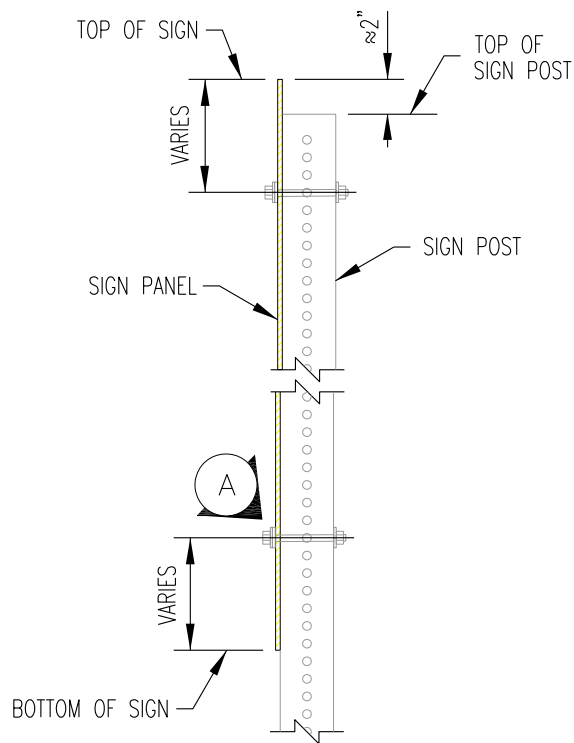


1. TYPE ST-2 AND ST-4 SIGN SUPPORTS/BASES SHALL BE DRIVEN IN COMPACTED BACKFILL OR NATIVE, UNDISTURBED SOIL WITH A MECHANICAL DRIVER UNLESS OTHERWISE APPROVED BY CITY ENGINEER.
2. WHEN PLACED IN NEW OR EXISTING CONCRETE (I.E. IN ISLANDS, SIDEWALK, OR AS OTHERWISE IDENTIFIED ON PROJECT PLANS) HEAVY DUTY ANCHOR BASE SHALL BE USED.
3. WHEN INSTALLED IN EXISTING CONCRETE USE A 6" CORE DRILL, DRIVE THE POST, BACKFILL WITH SOIL, AND TOP WITH CONCRETE TO MATCH THE THICKNESS OF THE EXISTING CONCRETE.

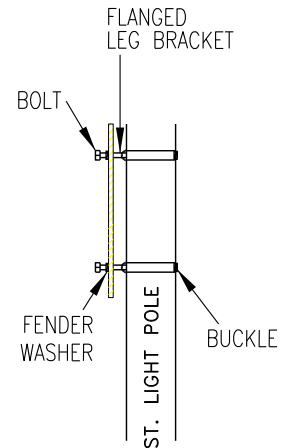
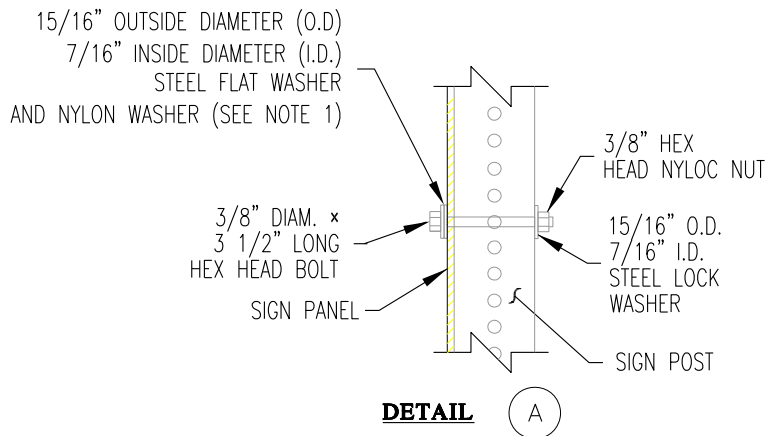


# TYPICAL SIGN POST INSTALLATION

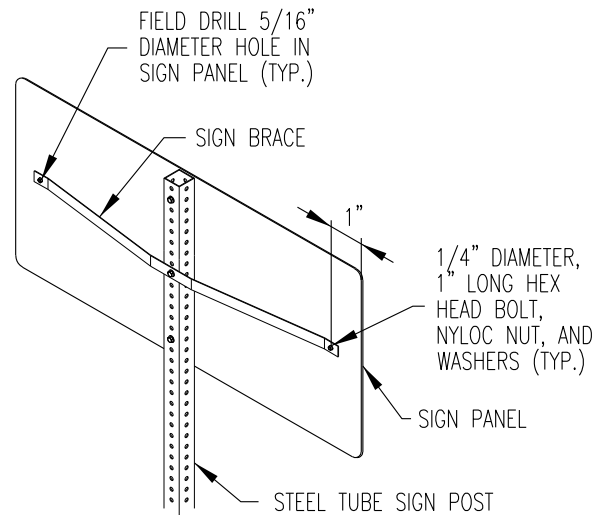
CAD FILE: 2018\_TR5\_01\_2024



**SIGN ATTACHMENT ON POST**



**SIGN ATTACHMENT ON STREETLIGHT POLE**



**FOR ROUNDABOUT SIGNS  
42" AND WIDER**

**NOTES:**

1. NYLON WASHER SHALL BE PLACED AGAINST FRONT FACE OF SIGN.



**SIGN  
MOUNTING  
DETAILS**

PUBLIC WORKS ENGINEERING

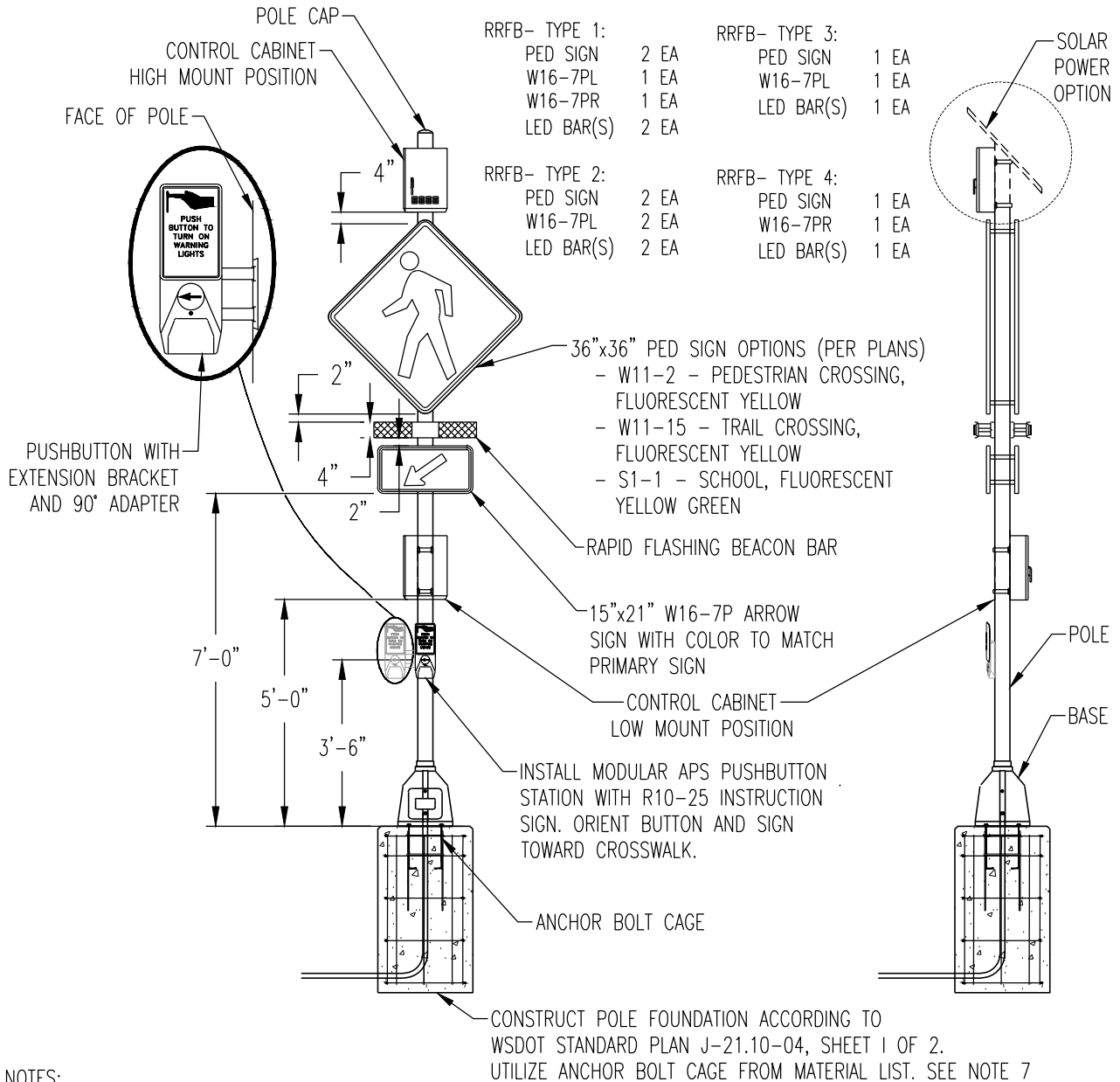
APPR. BY: PKR

DATE: 02.24

DRAWN BY: EY

DWG: TR6

CAD FILE: 2021\_TR6\_10\_2024



NOTES:

1. SIGN TYPES, SIZES AND COLORS PER PLAN OR SPECIFICATIONS.
2. INSTALL SIGNS, LIGHTBARS AND CABINETS WITH "BAND-IT" TOOL.
3. PUSHBUTTON SHALL BE WITHIN 10" REACH OF FACE OF CURB.
4. INSTALL POLE ONTO BASE USING STRAP WRENCH. TURN UNTIL SNUG AND POLE BOTTOMS OUT TO PREVENT MOVEMENT AND ROTATION DUE TO WIND.
5. SOLAR HARNESS SHALL BE ORIGINAL EQUIPMENT FROM THE MANUFACTURER AND SIZED LONG ENOUGH SO THAT THERE ARE NO SPLICES IN THE CABLE.
6. POLE PENETRATIONS SHALL BE MADE AS SMALL AS PRACTICAL AND UTILIZE GROMMETS WHEN APPROPRIATE TO PROTECT THE CABLE SHEATHING. EXCESS SPACE AROUND THE HOLES SHALL BE FILLED WITH RTV SEALANT.
7. PRECAST FOUNDATION MAY BE USED. SELECT FROM MATERIAL LIST.



RECTANGULAR  
RAPID FLASHING  
BEACON SYSTEM (RRFB)

CIVIL & UTILITY ENGINEERING

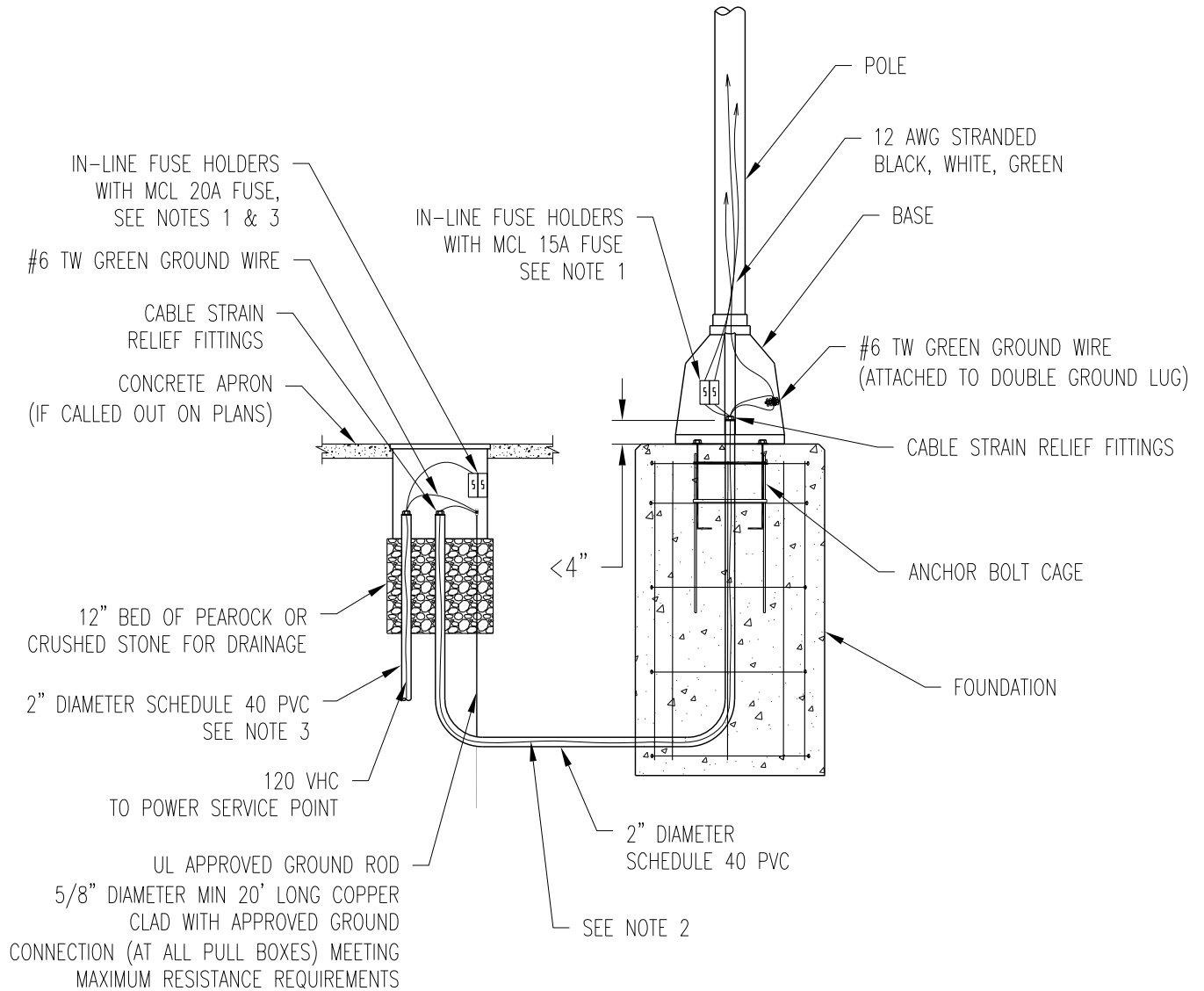
APPR. BY: SAW

DATE: 03.25

DRAWN BY: EY

DWG: TR7

CAD FILE: TR7\_3.2025



NOTES:

1. SINGLE-POLE IN-LINE FUSE HOLDER WITH SOLID BREAKAWAY OPTION FOR IMPACT SEPARATION: RATED 30A, 600V: FOR THE FUSED DISCONNECT AND HAVING A PERMANENTLY INSTALLED SOLID NEUTRAL (FOR THE NON-FUSED DISCONNECT).
2. CONDUCTORS MUST BE SOOW TYPE WITH A 600V RATING, 12 AWG, 12/2.
3. NOT REQUIRED FOR SOLAR INSTALLATIONS.



# POLE WIRING DETAIL FOR SCHOOL BEACONS & RRFB

CIVIL & UTILITY ENGINEERING

APPR. BY: PKR

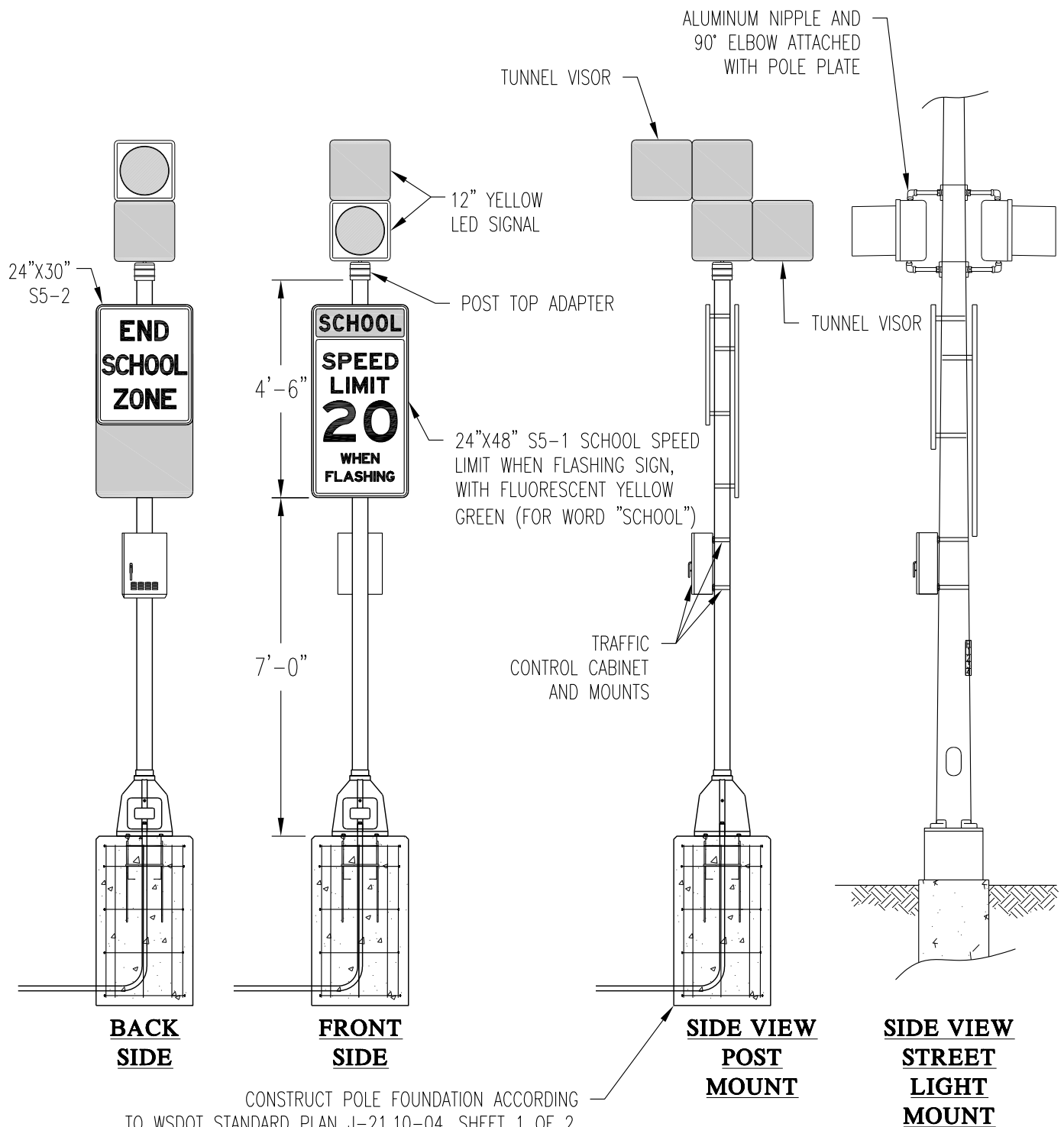
DATE: 02.24

DRAWN BY: EY

DWG: TR8

CAD FILE: 2022\_TR8\_06\_2024





NOTES:

1. PRECAST FOUNDATION MAY BE USED. SELECT FROM MATERIAL LIST.



# SCHOOL BEACON DETAIL

CIVIL & UTILITY ENGINEERING

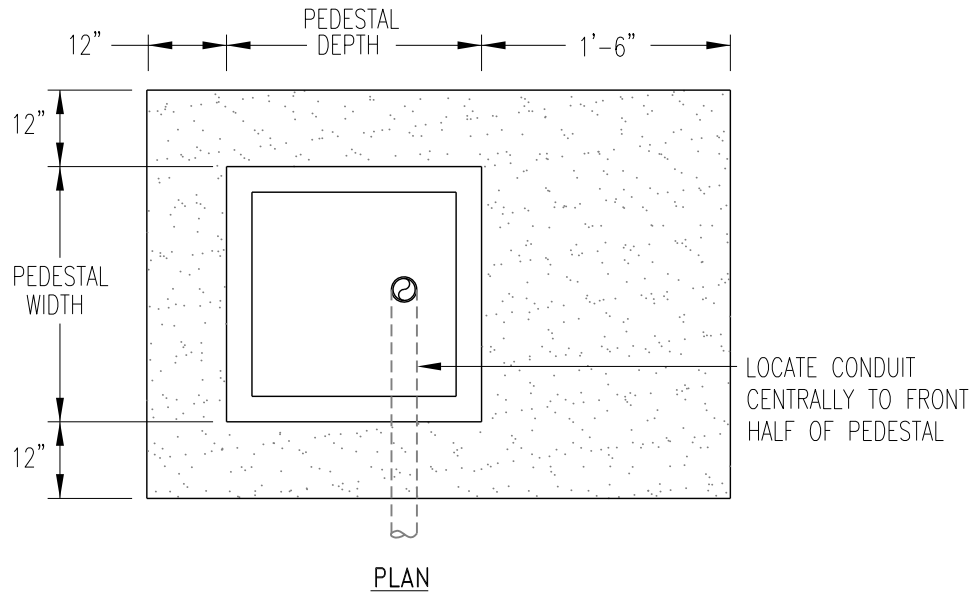
APPR. BY: PKR

DATE: 02.24

DRAWN BY: EY

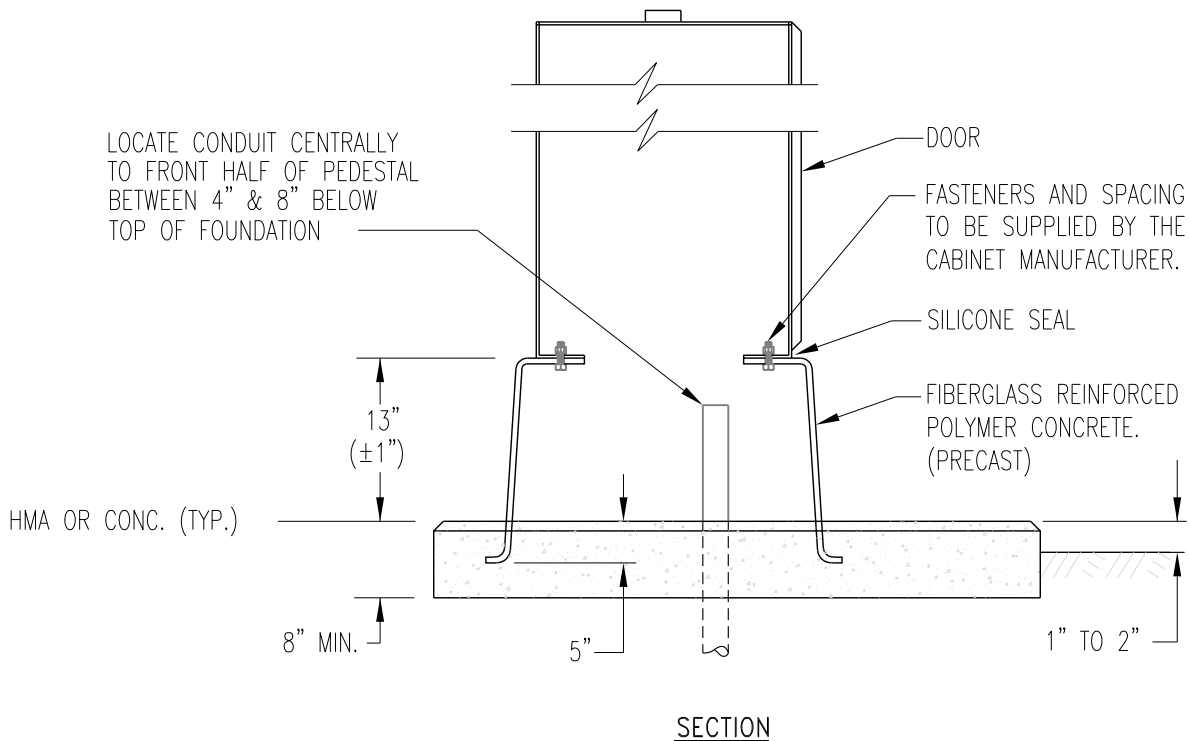
DWG: TR10

CAD FILE: 2022\_TR10\_06\_2024



**NOTES:**

1. WHERE THE FOUNDATION PAD IS LOCATED IN A SIDEWALK, CONSTRUCT TOP OF PAD FLUSH WITH SIDEWALK GRADE, OMITTING CHAMFER WHERE PAD & SIDEWALK ABUT.
2. CABINET FOUNDATION SHALL BE CLASS B CONCRETE.
3. MODIFY FOUNDATION OPENING TO MATCH CABINET OPENING.
4. THE FOUNDATION PAD SHALL BE A MONOLITHIC CONCRETE POUR BOTH INTERNAL & EXTERNAL OF THE PRECAST PEDESTAL AND IN BOTH AREAS TROWEL FINISHED SMOOTH & LEVEL.



TRAFFIC SIGNAL  
FOUNDATION

CIVIL & UTILITY ENGINEERING

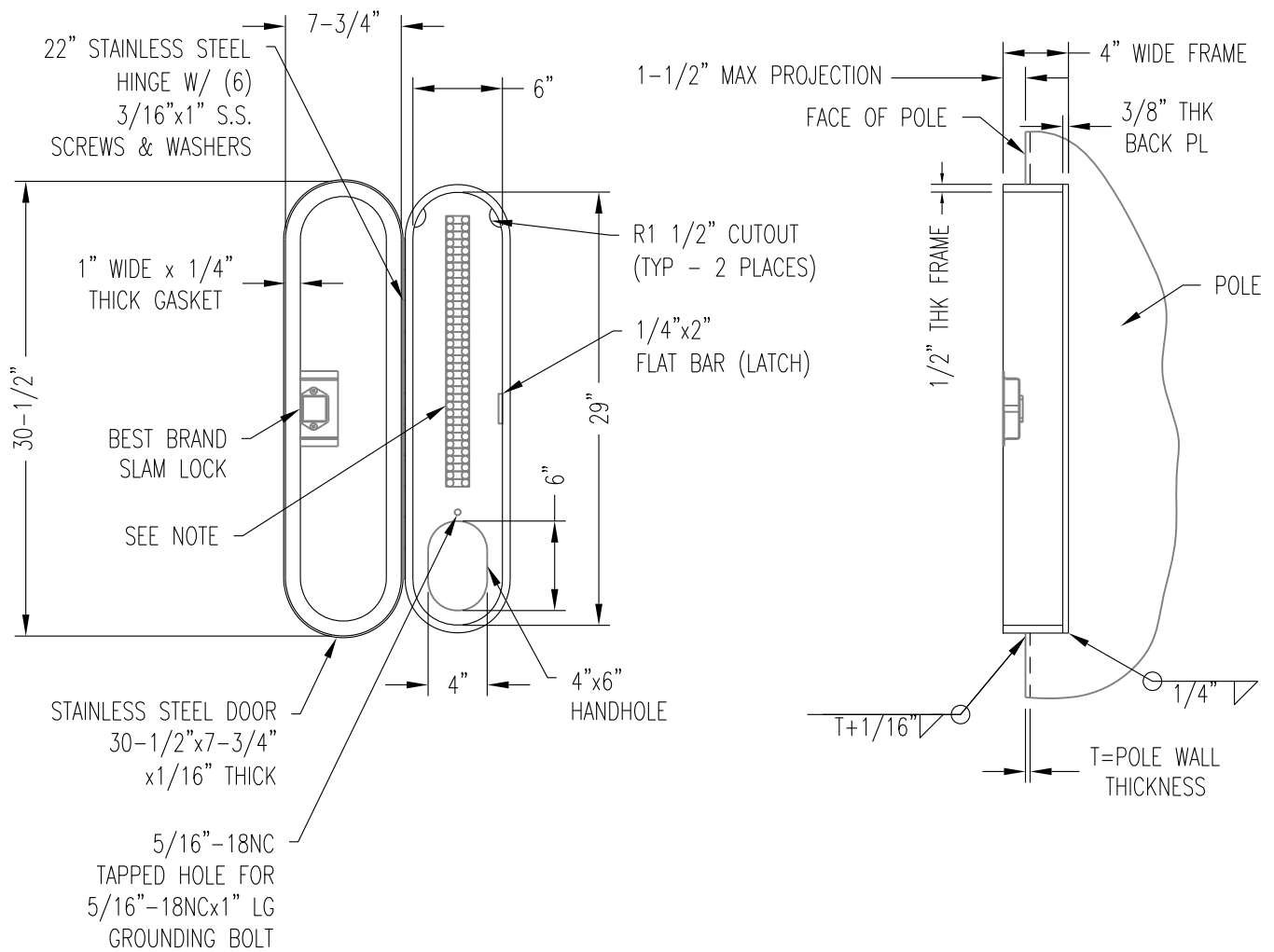
APPR. BY: PKR

DATE: 06.22

DRAWN BY: JC

DWG: TR11

CAD FILE: 2022\_TR11\_06\_2022



## TERMINAL COMPARTMENT DETAIL

NOTE: TERMINAL STRIPS & COPPER NEUTRAL BAR SUPPLIED BY CONTRACTOR



## TRAFFIC SIGNAL TERMINAL COMPARTMENT

CIVIL & UTILITY ENGINEERING

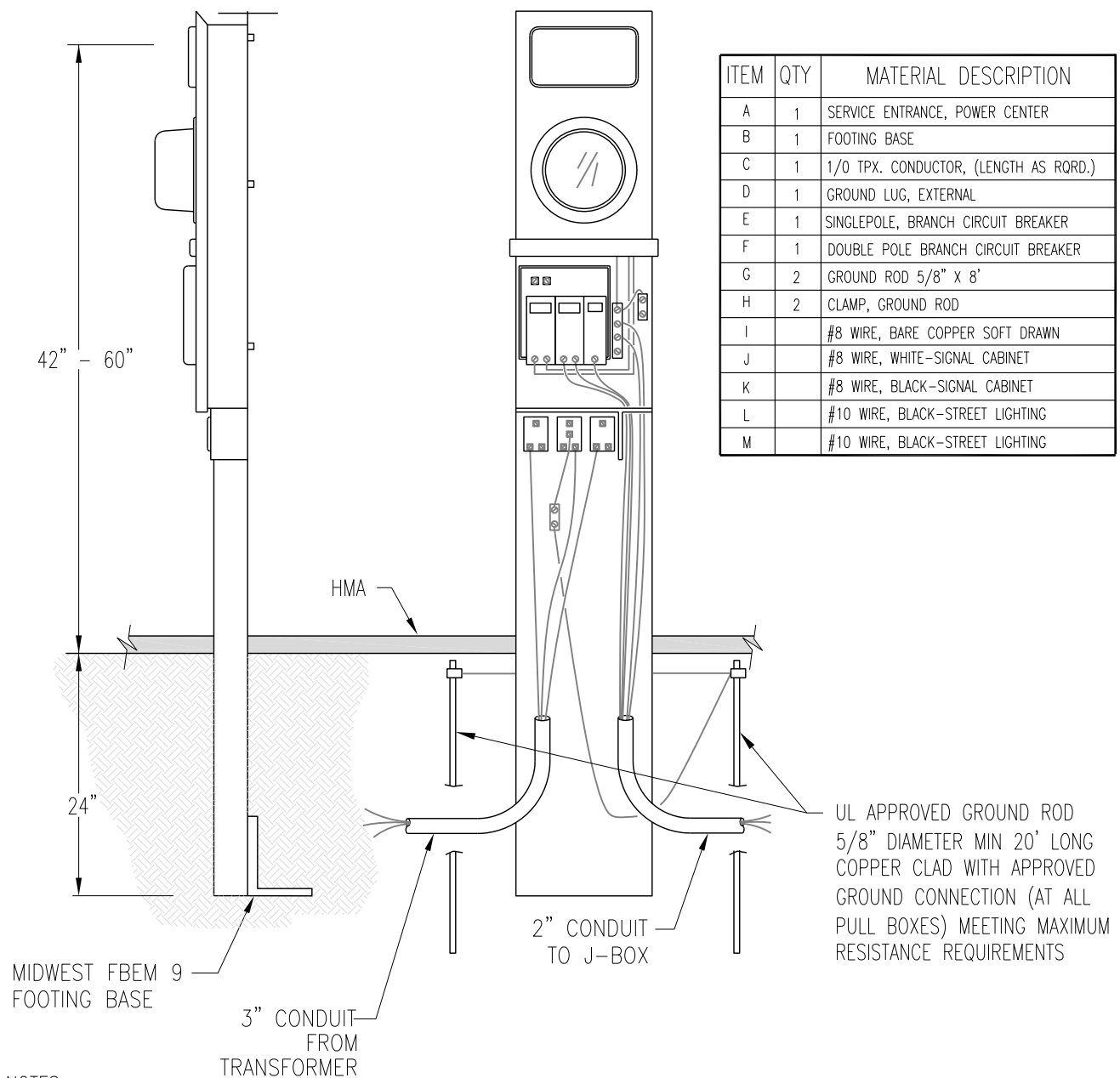
APPR. BY: PKR

DATE: 05.22

DRAWN BY: JC

DWG: TR12

CAD FILE: 2022\_TR12\_06\_2022



#### NOTES

1. USE MIDWEST SERVICE ENTRANCE RATED LOAD CENTER WITH INTEGRAL RING TYPE METER BASE MODEL #M101CP6. (OR EQUAL) LOAD CENTER MUST BE NEMA 3R & SERVICE ENTRANCE RATED. PROVIDE (1) 40 AMP SINGLE POLE & (1) 20 AMP DOUBLE BRANCH CIRCUIT BREAKERS. ALL BREAKERS MUST BE UL LISTED FOR USE IN THE LOAD CENTER.
2. USE MIDWEST (OR EQUAL) EXTERNAL GROUND LUG, MODEL #GL-6.
3. USE MIDWEST (OR EQUAL) FOOTING BASE, MODEL #FBEM9.



## SERVICE CABINET DETAIL

#### CIVIL & UTILITY ENGINEERING

APPR. BY: PKR

DATE: 11.22

DRAWN BY: LD

DWG: TR13

CAD FILE: 2022\_TR13\_11\_2022