

DESIGNED: A. HIEMSTRA	REVISIONS
DRAWN: A. HIEMSTRA	NO: ---
CHECKED: S. BELCASTRO	BY: ---
DATE: 8/27/2021	DATE: ---

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ENGINEERING SERVICES**

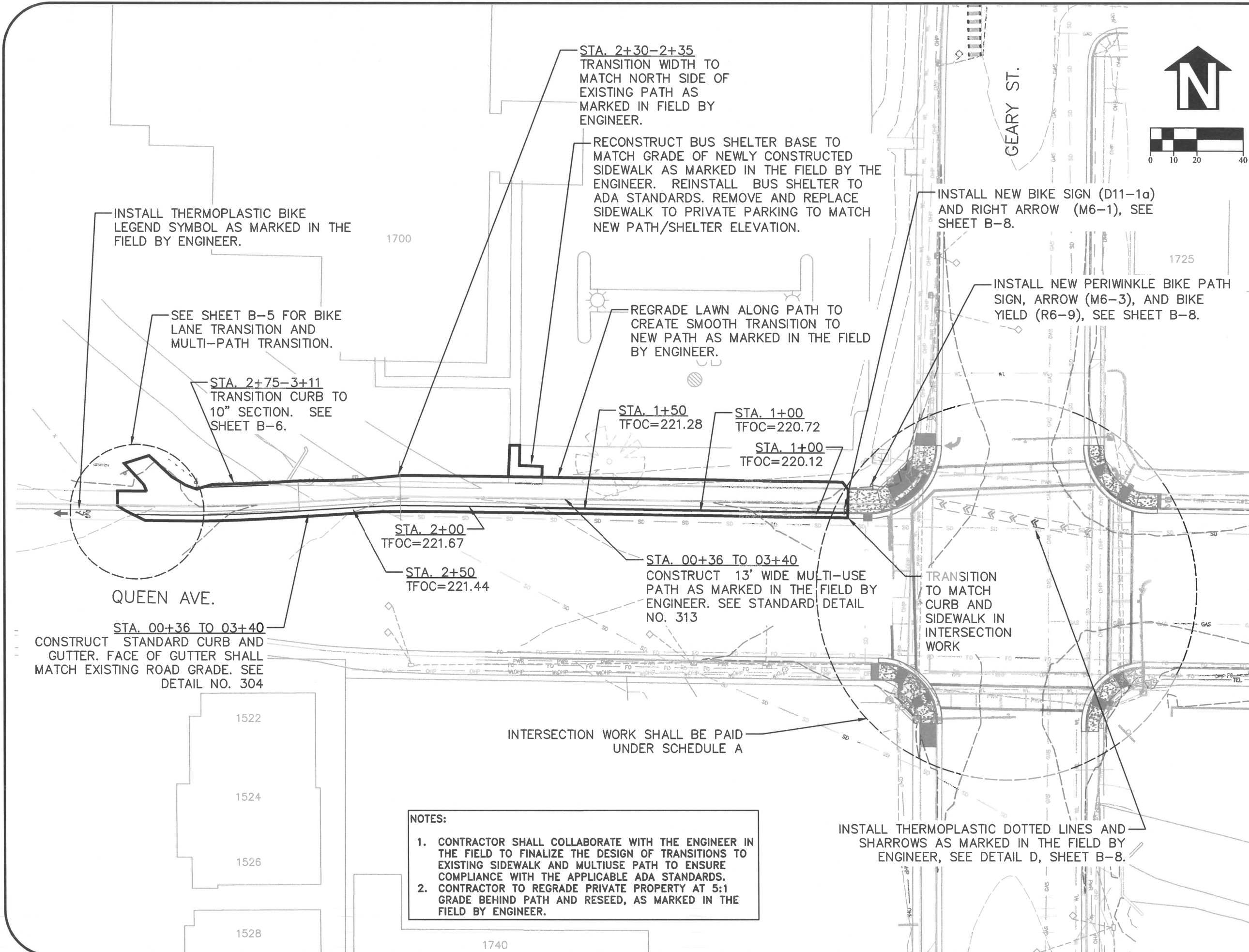


**ST-22-07, SRTS PERIWINKLE PATH EXTENSION
EXISTING CONDITIONS & DEMOLITION**



EXPIRATION DATE: 06/30/2023

SHEET NO. B-1 OF 8
PROJECT NO: ST-22-07
FILE: BASE.DWG



INSTALL THERMOPLASTIC BIKE LEGEND SYMBOL AS MARKED IN THE FIELD BY ENGINEER.

SEE SHEET B-5 FOR BIKE LANE TRANSITION AND MULTI-PATH TRANSITION.

STA. 2+75-3+11
TRANSITION CURB TO 10" SECTION. SEE SHEET B-6.

STA. 2+30-2+35
TRANSITION WIDTH TO MATCH NORTH SIDE OF EXISTING PATH AS MARKED IN FIELD BY ENGINEER.

RECONSTRUCT BUS SHELTER BASE TO MATCH GRADE OF NEWLY CONSTRUCTED SIDEWALK AS MARKED IN THE FIELD BY THE ENGINEER. REINSTALL BUS SHELTER TO ADA STANDARDS. REMOVE AND REPLACE SIDEWALK TO PRIVATE PARKING TO MATCH NEW PATH/SHELTER ELEVATION.

REGRADE LAWN ALONG PATH TO CREATE SMOOTH TRANSITION TO NEW PATH AS MARKED IN THE FIELD BY ENGINEER.

INSTALL NEW BIKE SIGN (D11-1a) AND RIGHT ARROW (M6-1), SEE SHEET B-8.

INSTALL NEW PERIWINKLE BIKE PATH SIGN, ARROW (M6-3), AND BIKE YIELD (R6-9), SEE SHEET B-8.

STA. 1+50
TFOC=221.28

STA. 1+00
TFOC=220.72

STA. 1+00
TFOC=220.12

STA. 2+00
TFOC=221.67

STA. 2+50
TFOC=221.44

STA. 00+36 TO 03+40
CONSTRUCT 13' WIDE MULTI-USE PATH AS MARKED IN THE FIELD BY ENGINEER. SEE STANDARD DETAIL NO. 313

TRANSITION TO MATCH CURB AND SIDEWALK IN INTERSECTION WORK

STA. 00+36 TO 03+40
CONSTRUCT STANDARD CURB AND GUTTER. FACE OF GUTTER SHALL MATCH EXISTING ROAD GRADE. SEE DETAIL NO. 304

INTERSECTION WORK SHALL BE PAID UNDER SCHEDULE A

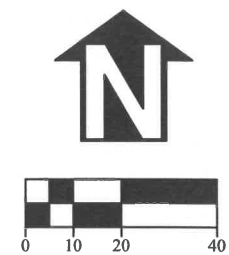
NOTES:

1. CONTRACTOR SHALL COLLABORATE WITH THE ENGINEER IN THE FIELD TO FINALIZE THE DESIGN OF TRANSITIONS TO EXISTING SIDEWALK AND MULTIUSE PATH TO ENSURE COMPLIANCE WITH THE APPLICABLE ADA STANDARDS.
2. CONTRACTOR TO REGRADE PRIVATE PROPERTY AT 5:1 GRADE BEHIND PATH AND RESEED, AS MARKED IN THE FIELD BY ENGINEER.

INSTALL THERMOPLASTIC DOTTED LINES AND SHARROWS AS MARKED IN THE FIELD BY ENGINEER, SEE DETAIL D, SHEET B-8.

GEARY ST.

QUEEN AVE.



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**ST-22-07, SRTS PERIWINKLE PATH EXTENSION
MULTI-USE PATH**

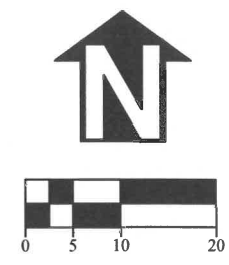
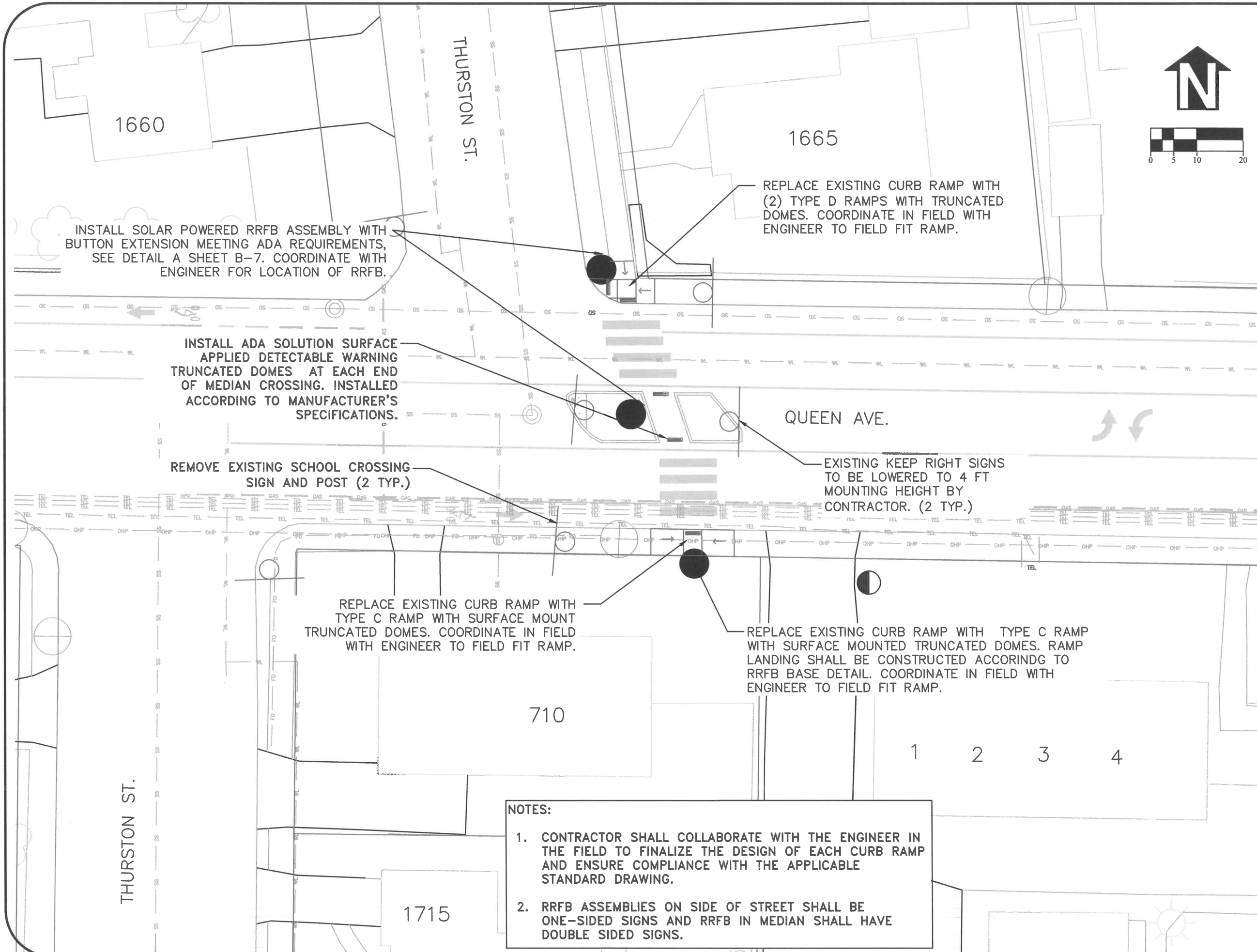


EXPIRATION DATE: 06/30/2023

SHEET NO. B-2 OF 8

PROJECT NO: ST-22-07

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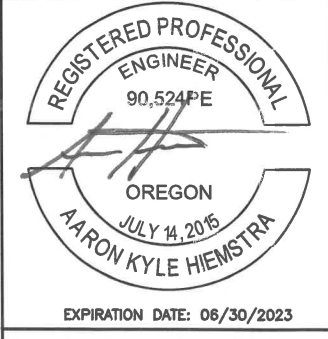
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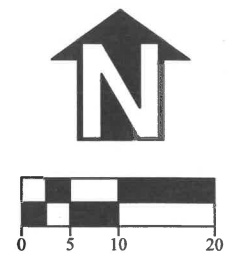
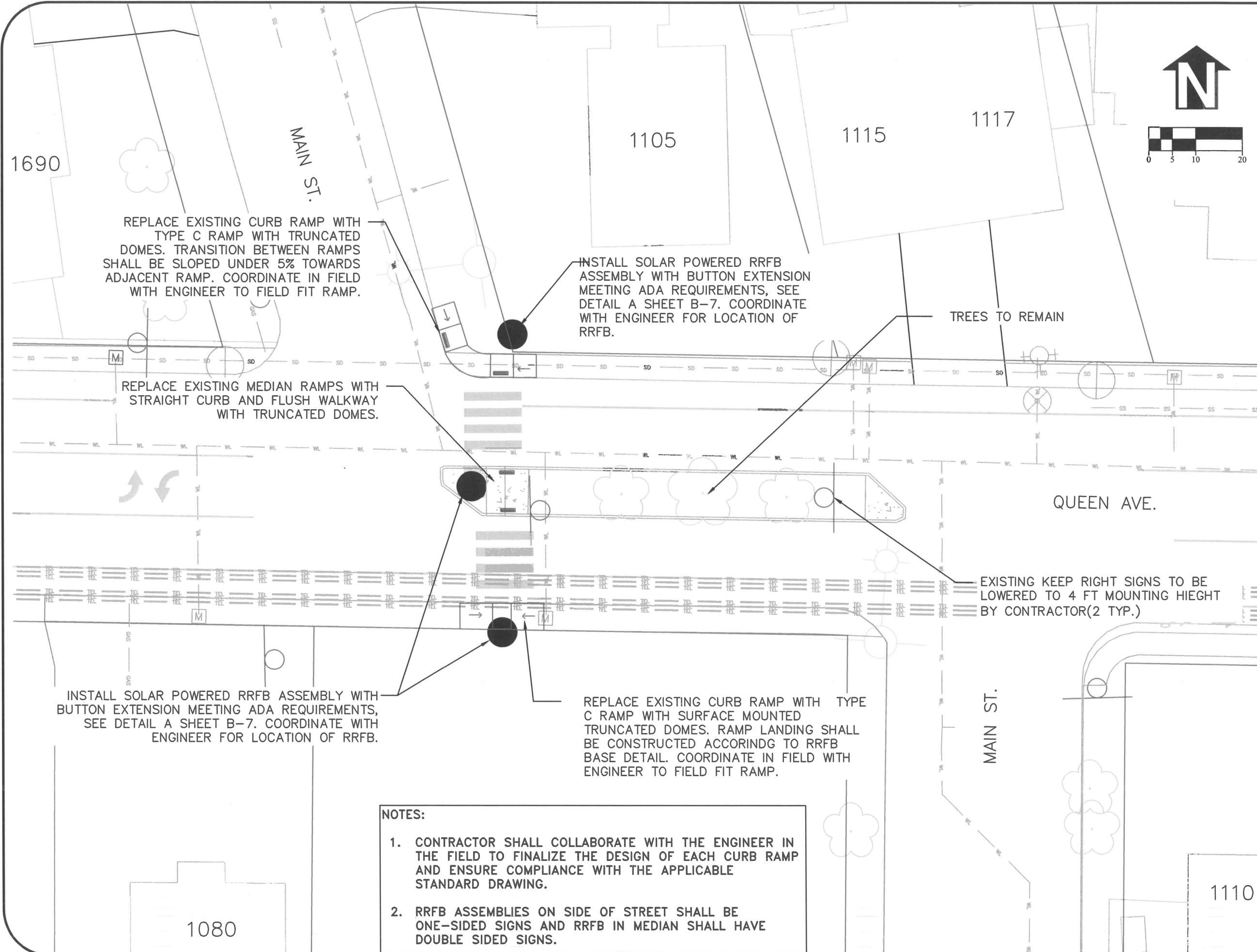
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**ST-22-07, SRTS PERIWINKLE PATH EXTENSION
RRFB SITE PLAN**


- NOTES:**
- CONTRACTOR SHALL COLLABORATE WITH THE ENGINEER IN THE FIELD TO FINALIZE THE DESIGN OF EACH CURB RAMP AND ENSURE COMPLIANCE WITH THE APPLICABLE STANDARD DRAWING.
 - RRFB ASSEMBLIES ON SIDE OF STREET SHALL BE ONE-SIDED SIGNS AND RRFB IN MEDIAN SHALL HAVE DOUBLE SIDED SIGNS.






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ST-22-07, SRTS PERIWINKLE PATH EXTENSION
RRFB SITE PLAN



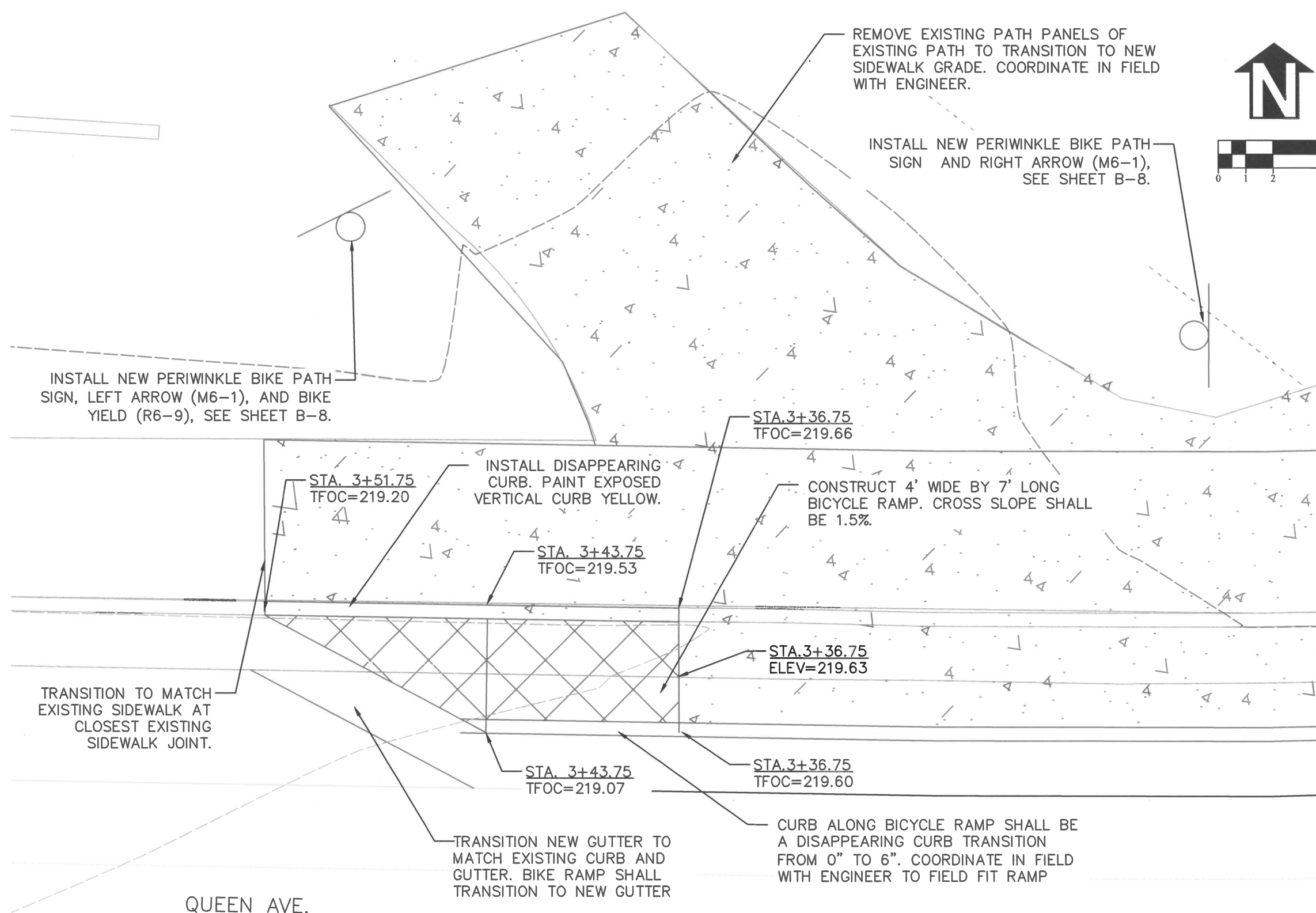
EXPIRATION DATE: 06/30/2023

SHEET NO. **B-4 OF 8**

PROJECT NO: ST-22-07

FILE: BASE.DWG

- NOTES:**
- CONTRACTOR SHALL COLLABORATE WITH THE ENGINEER IN THE FIELD TO FINALIZE THE DESIGN OF EACH CURB RAMP AND ENSURE COMPLIANCE WITH THE APPLICABLE STANDARD DRAWING.
 - RRFB ASSEMBLIES ON SIDE OF STREET SHALL BE ONE-SIDED SIGNS AND RRFB IN MEDIAN SHALL HAVE DOUBLE SIDED SIGNS.



REMOVE EXISTING PATH PANELS OF EXISTING PATH TO TRANSITION TO NEW SIDEWALK GRADE. COORDINATE IN FIELD WITH ENGINEER.

INSTALL NEW PERIWINKLE BIKE PATH SIGN AND RIGHT ARROW (M6-1), SEE SHEET B-8.

INSTALL NEW PERIWINKLE BIKE PATH SIGN, LEFT ARROW (M6-1), AND BIKE YIELD (R6-9), SEE SHEET B-8.

INSTALL DISAPPEARING CURB. PAINT EXPOSED VERTICAL CURB YELLOW.

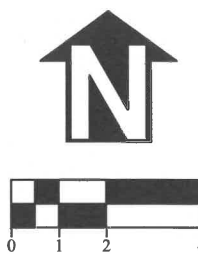
CONSTRUCT 4' WIDE BY 7' LONG BICYCLE RAMP. CROSS SLOPE SHALL BE 1.5%.

TRANSITION TO MATCH EXISTING SIDEWALK AT CLOSEST EXISTING SIDEWALK JOINT.

TRANSITION NEW GUTTER TO MATCH EXISTING CURB AND GUTTER. BIKE RAMP SHALL TRANSITION TO NEW GUTTER

CURB ALONG BICYCLE RAMP SHALL BE A DISAPPEARING CURB TRANSITION FROM 0" TO 6". COORDINATE IN FIELD WITH ENGINEER TO FIELD FIT RAMP

QUEEN AVE.



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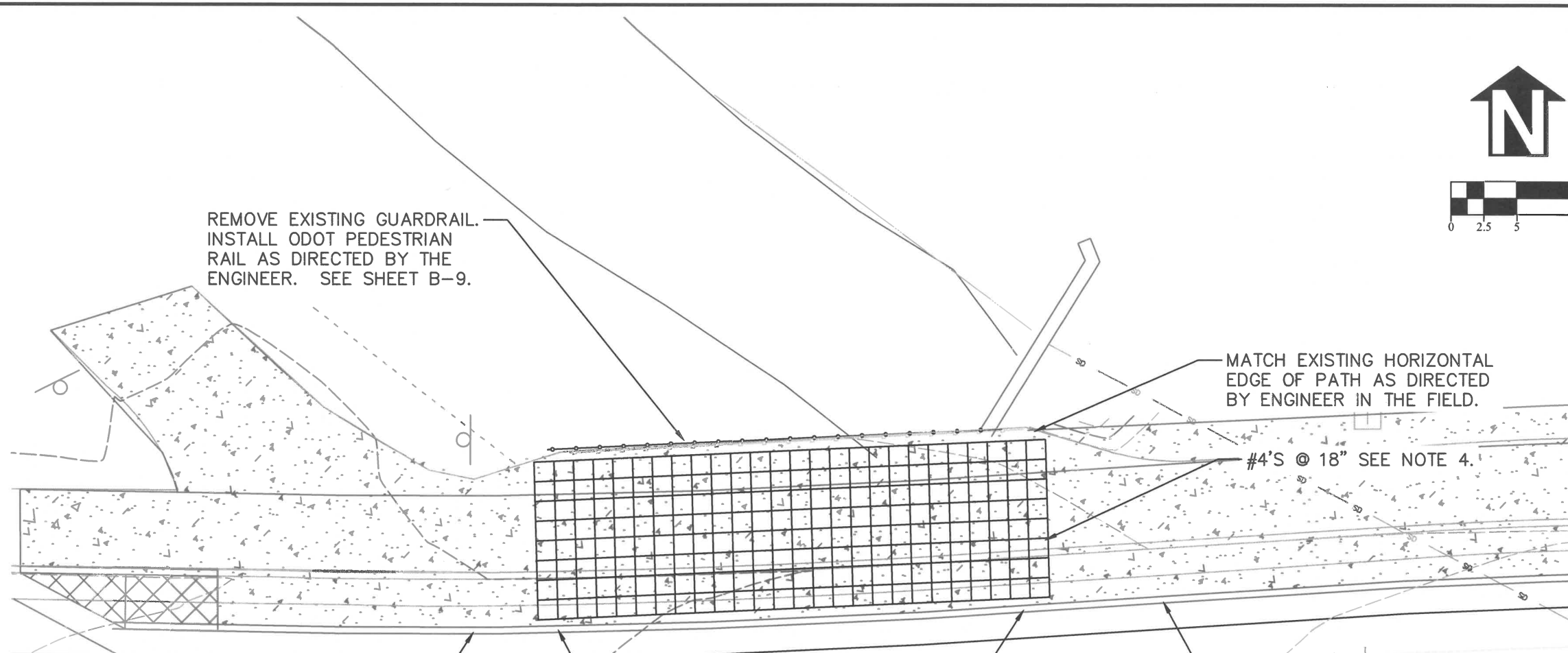
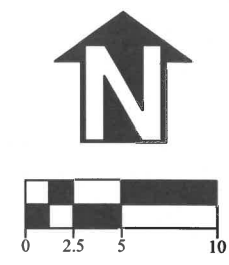
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ST-22-07, SRTS PERIWINKLE PATH EXTENSION
BIKE RAMP



EXPIRATION DATE: 06/30/2023
SHEET NO. B-5 OF 8
PROJECT NO: ST-22-07
FILE: BASE.DWG



REMOVE EXISTING GUARDRAIL.
INSTALL ODOT PEDESTRIAN
RAIL AS DIRECTED BY THE
ENGINEER. SEE SHEET B-9.

MATCH EXISTING HORIZONTAL
EDGE OF PATH AS DIRECTED
BY ENGINEER IN THE FIELD.

#4'S @ 18" SEE NOTE 4.

QUEEN AVE.

STA.3+17.60
BEGIN 6" CURB SECTION
TFOC=219.69

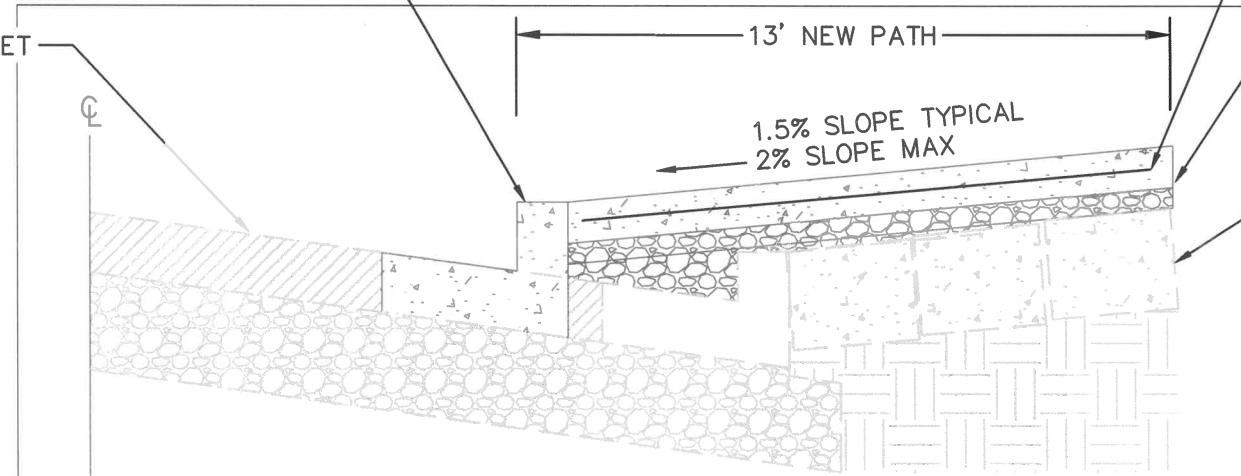
STA.2+75.00
END 10" CURB SECTION
TRANSITION TO 6" CURB. TRANSITION
SHALL NOT EXCEED 5.00%
TFOC=220.21

STA.2+75.00
BEGIN 10" CURB SECTION
PATH CROSS SLOPE SHALL
NOT EXCEED 2.00%
TFOC=220.88

STA.2+68.40
BEGIN TRANSITION TO 10"
CURB SECTION. TRANSITION
SHALL NOT EXCEED 5%.
TFOC=220.68

10" CURB AND
GUTTER. SEE
STANDARD DRAWING
NO. 304.

EXISTING STREET



NEW PATH TYPICAL SECTION

#4'S @ 18" SEE NOTE 4.

4" PCC CONCRETE SIDEWALK OVER
2" 100% FRACTURED FACE 1-0" CRUSHED
AGGREGATE BASE. SEE STANDARD DRAWING NO. 313
AND THE SPECIAL PROVISIONS.

EXISTING BEAMS

NOTES:

1. GROUT BETWEEN EXISTING BEAMS SHALL BE REMOVED AND REGROUTED.
2. SCOUR MARKS SHALL BE PLACED BETWEEN EACH CONCRETE BEAM AND AT THE END OF EACH BEAM.
3. PEDESTRIAN RAIL TO BE INSTALLED DIRECTLY TO THE BEAMS USING "SIDE MOUNTING POST" INSTALLATION.
4. PATH OVER CONCRETE BEAMS SHALL BE REINFORCED WITH #4 BARS INSTALLED IN AN 18" GRID SPACING AND VERTICALLY LOCATED IN THE MIDDLE OF THE PATHWAY. REBAR REINFORCEMENT SHALL EXTEND 24" BEYOND THE ENDS OF THE CONCRETE BEAMS.

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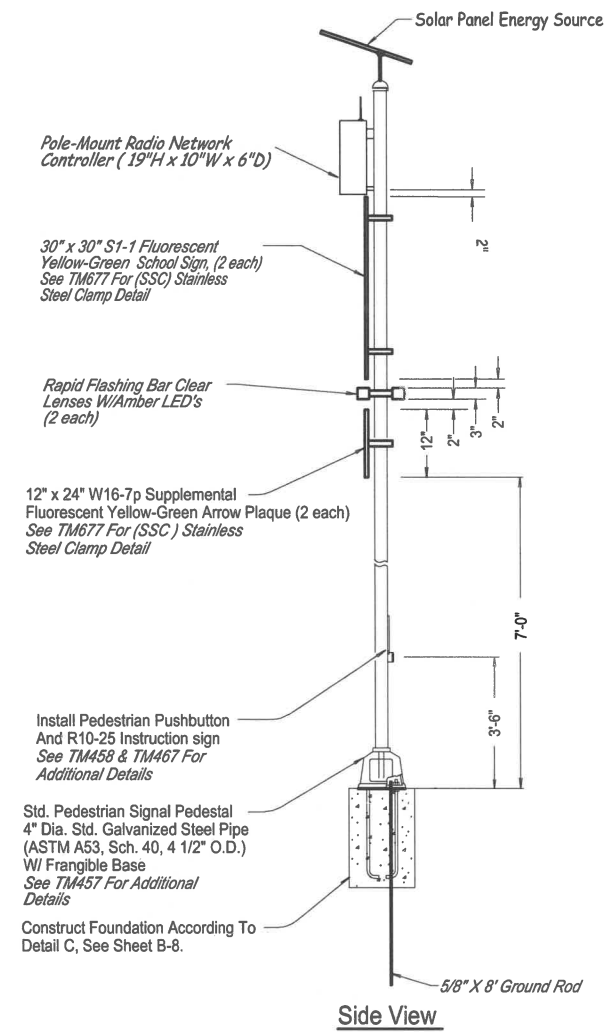
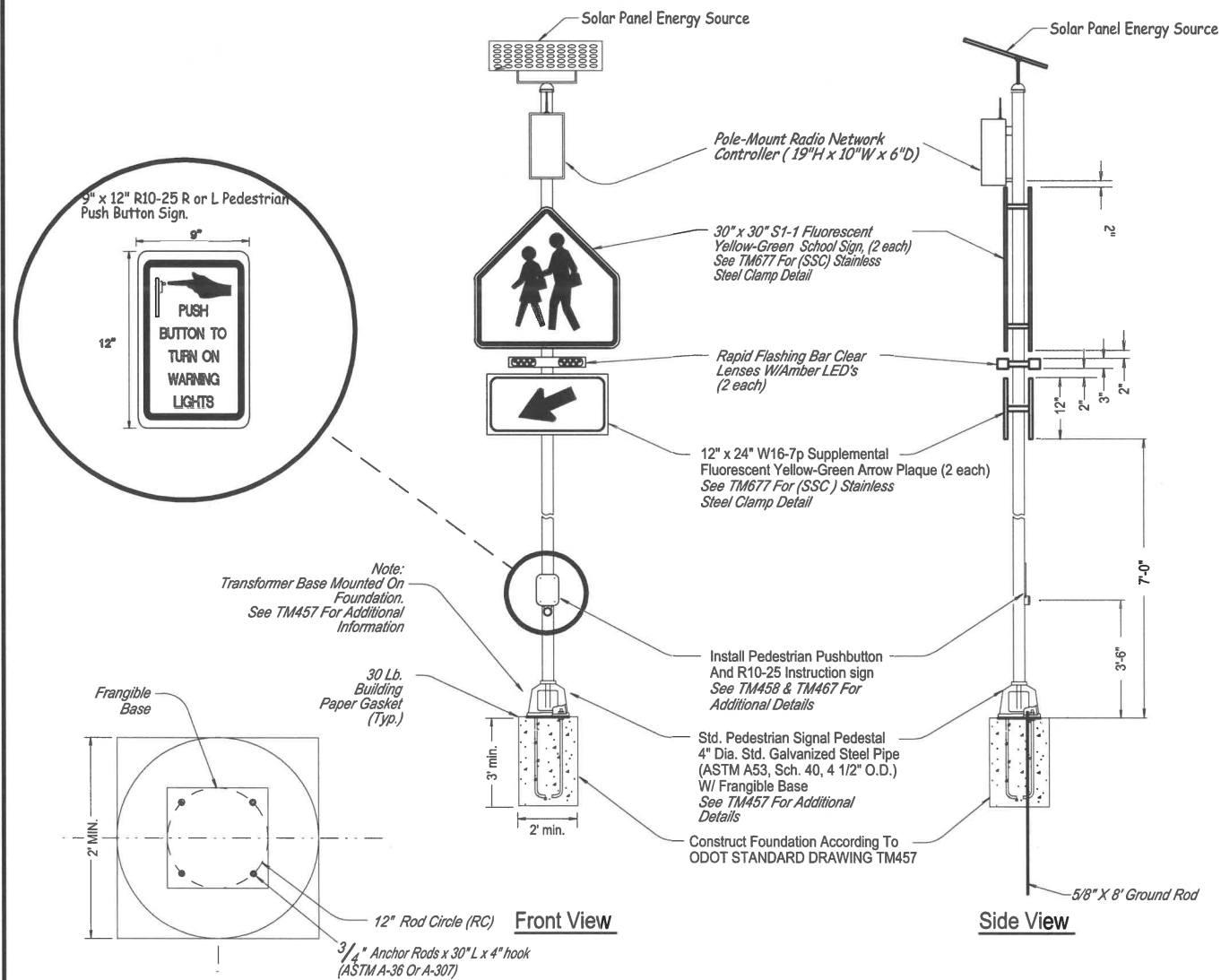
ST-22-07, SRTS PERIWINKLE PATH EXTENSION
CULVERT CROSSING



EXPIRATION DATE: 06/30/2023
SHEET NO. B-6 OF 8
PROJECT NO: ST-22-07
FILE: BASE.DWG

DETAIL A
RECTANGULAR RAPID FLASHING BEACON SYSTEM
PEDESTRIAN PEDESTAL INSTALLATION (TWO SIDED)
 (NOT TO SCALE)

DETAIL B
RECTANGULAR RAPID FLASHING BEACON SYSTEM
PEDESTRIAN PEDESTAL INSTALLATION (ONE SIDED)
 (NOT TO SCALE)




DETAIL "A1"
ROD CIRCLE DETAIL

- GENERAL NOTES:**
1. Use ODOT Green Sheet Listed Systems Only
 2. Install Controller Cabinet As Per the Manufacturer's Recommendations and as directed By the Engineer.
 3. Signs shall conform to the Manual on Uniform Traffic Control Devices and Standard Highway Signs Manuals.

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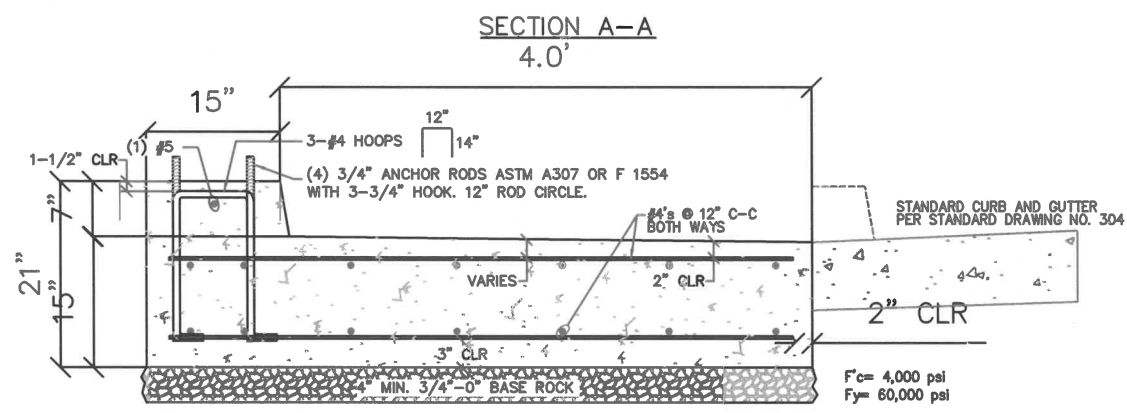
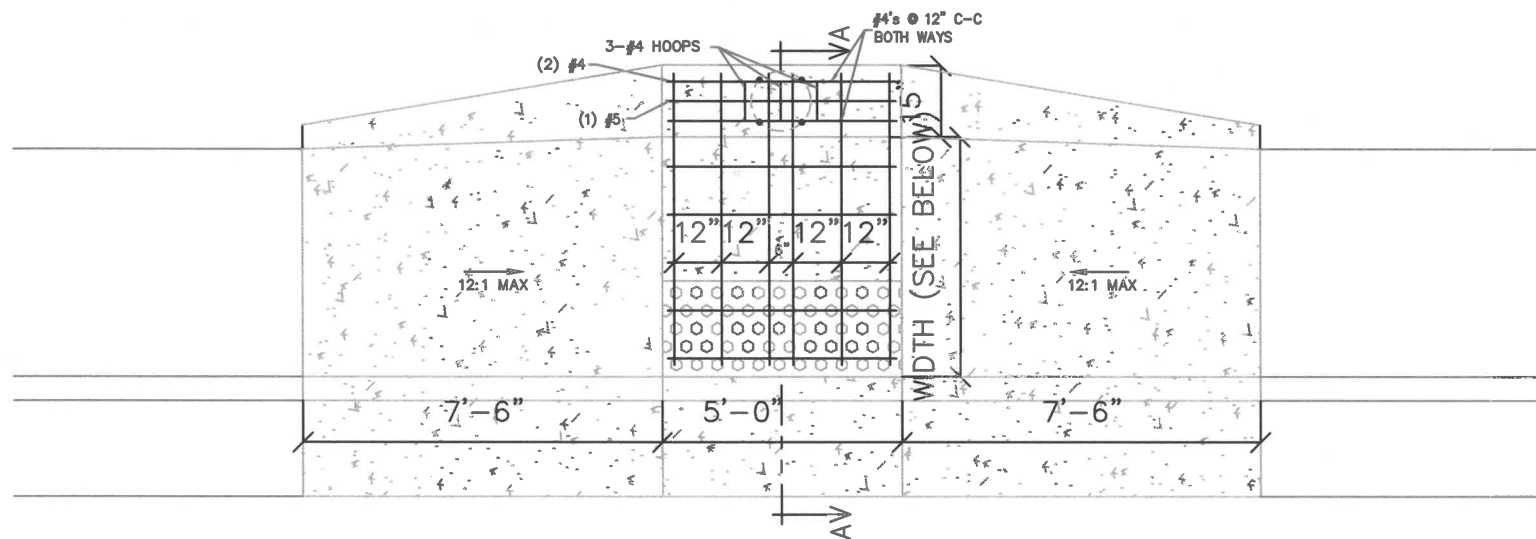
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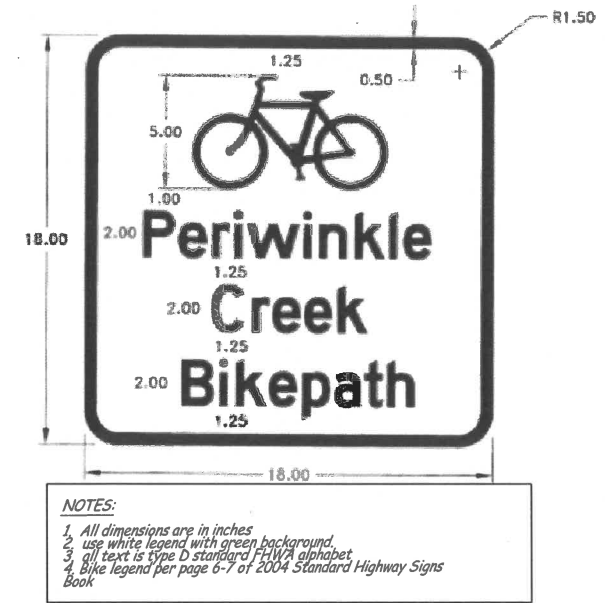
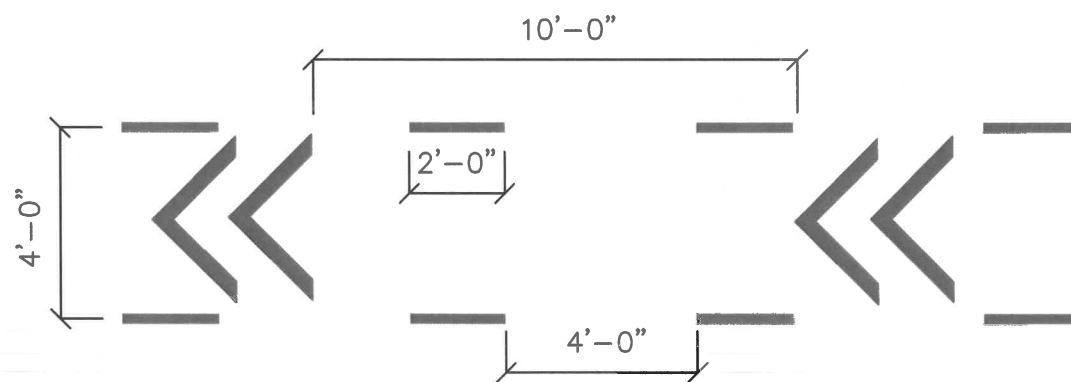
ST-22-07, SRTS PERIWINKLE PATH EXTENSION
RRFB DETAILS



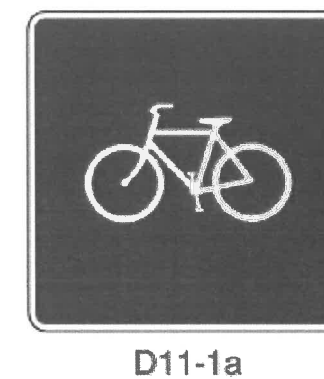
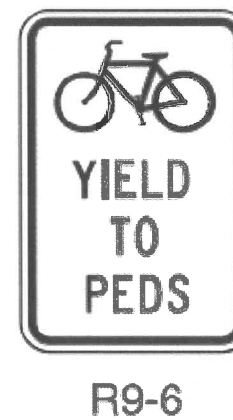
DETAIL C
 RECTANGULAR RAPID FLASHING BEACON SYSTEM
 FOUNDATION AND PEDESTRIAN RAMP DETAIL
 (NOT TO SCALE)



DETAIL D
 INTERSECTION BIKE LANE GUIDE DETAIL
 (NOT TO SCALE)



NOTES:
 1. Sign dimension shall be 12" x 9"
 2. use white legend with green background
 3. all text is type D standard FHWA alphabet



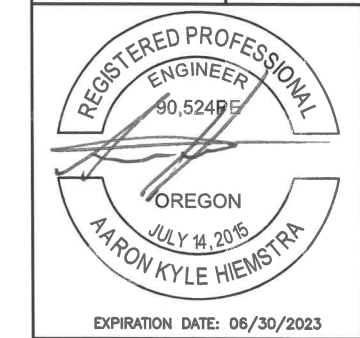
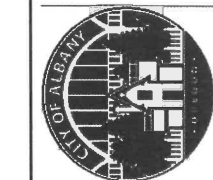
NOTES:
 1. Sign dimension shall be 12"x18"
 2. Use black legend with white background
 3. All text is type D standard FHWA alphabet

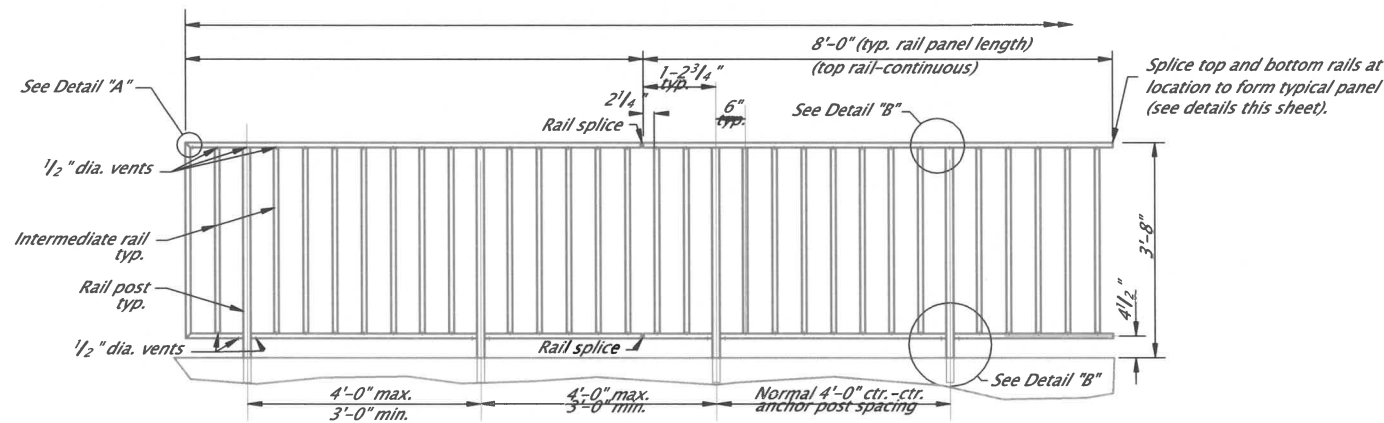
NOTES:
 1. Sign dimension shall be 18" x 18"
 2. Use white legend with green background
 3. All text is type D standard FHWA alphabet

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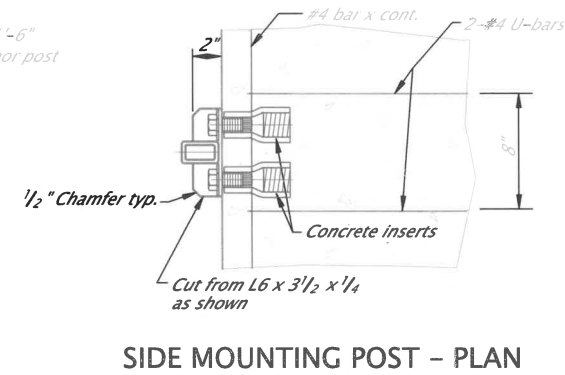
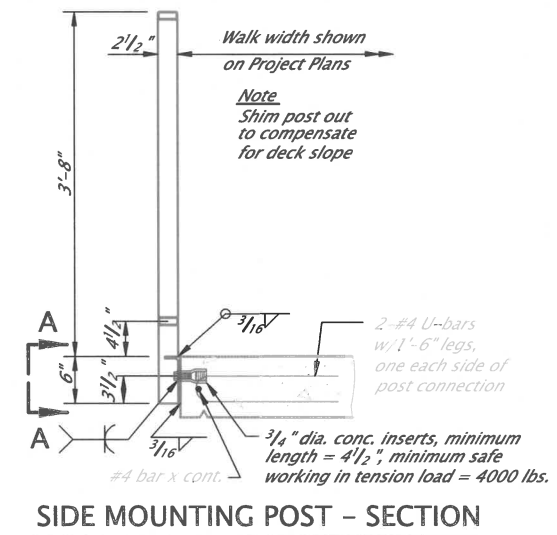
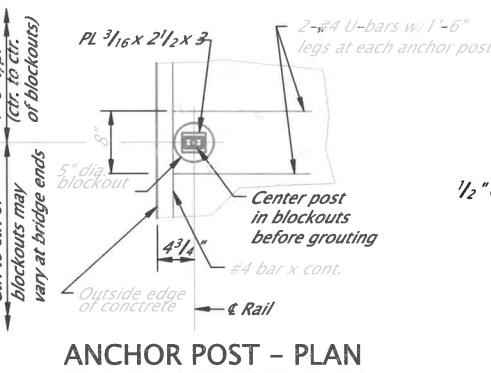
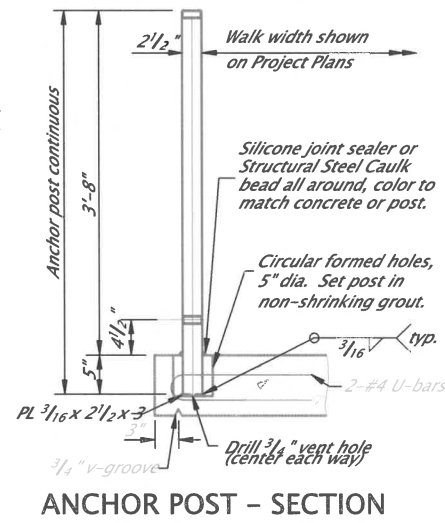
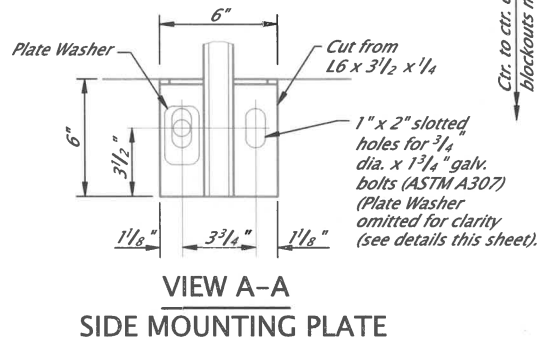
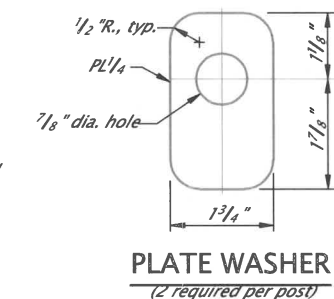
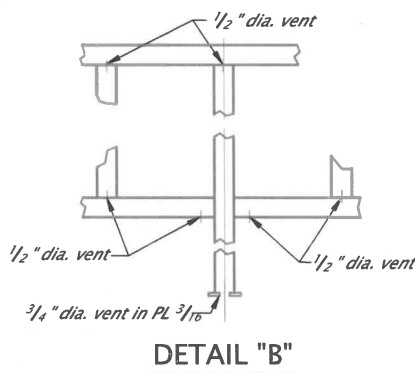
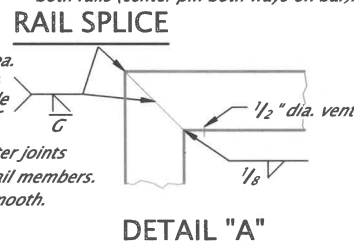
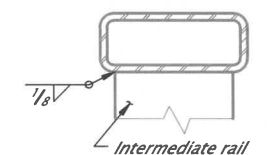
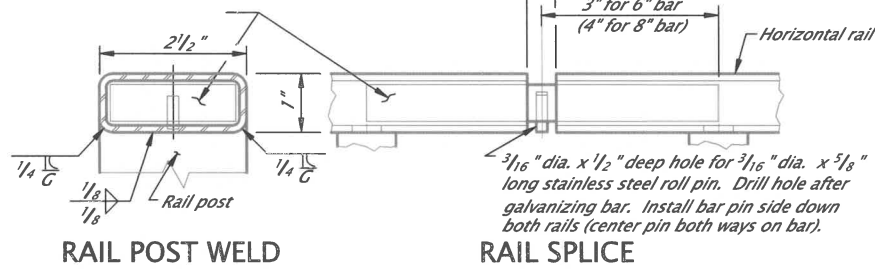
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 ENGINEERING SERVICES

ST-22-07, SRTS PERIWINKLE PATH EXTENSION
 DETAILS





PL 3/16 x 2 1/2 x 6" long steel bar for HSS 2 1/2 x 1 x 0.125 rails or PL 1/16 x 2 3/16 x 6" long steel bar for HSS 2 1/2 x 1 x 0.083 rail Increase length of bar to 8" at expansion joints.



NOTES:

Provide rectangular structural steel tubing according to Oregon Standard Specification 02810.20.

Provide HSS 2 1/2 x 1 1/2 x 1/4 for anchor post.

Provide HSS 2 1/2 x 1 x 0.083 (14 gauge) or HSS 2 1/2 x 1 x 0.125 (11 gauge) for horizontal rails and terminal end verticals.

Provide HSS 2 x 1 x 0.083 (14 gauge), for intermediate verticals. (TS 2 1/2 x 1 x 0.125 (11 gauge) may be used for intermediate verticals if the anchor post weld details are used).

Provide all other structural steel conforming to AASHTO M183 (ASTM A36).

Hot-dip galvanize all structural steel including fasteners and inserts after fabrication.

Provide Galvanize Control Silicon according to Oregon Standard Specification 02530.70.

Construct railing conforming to the horizontal and vertical alignment of the structure.


Install posts normal to grade in the longitudinal direction and vertical in the transverse direction.

Provide continuous top horizontal rail elements over a minimum of two posts unless shown otherwise on detail plans. Provide a minimum of two anchor posts per rail panel.

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**ST-22-07, SRTS PERIWINKLE PATH EXTENSION
DETAILS**



REGISTERED PROFESSIONAL
ENGINEER
90,524PE

OREGON
JULY 14, 2015
AARON KYLE HIEMSTRA

EXPIRATION DATE: 06/30/2023

SHEET NO. B-9 OF 8
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