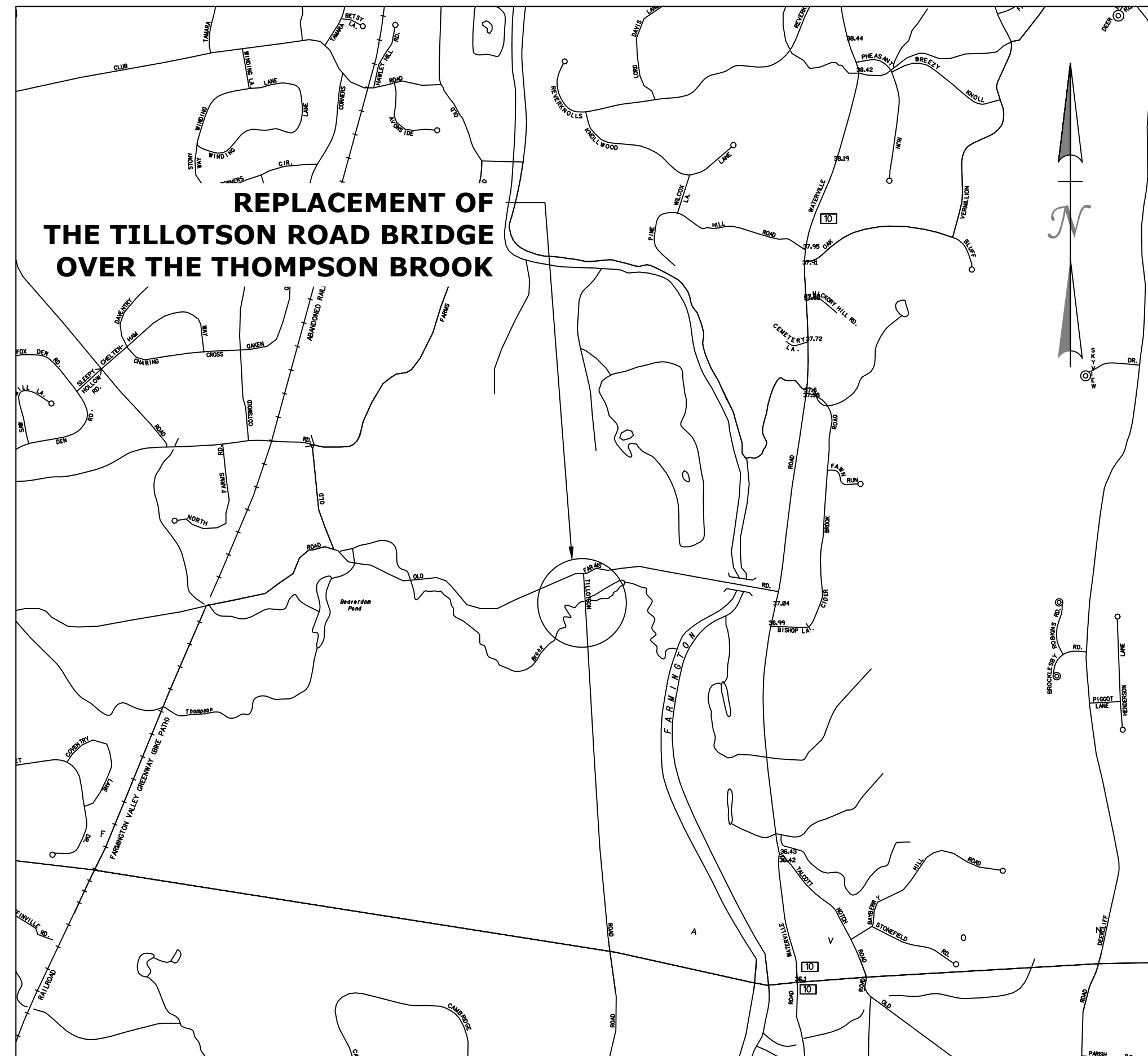
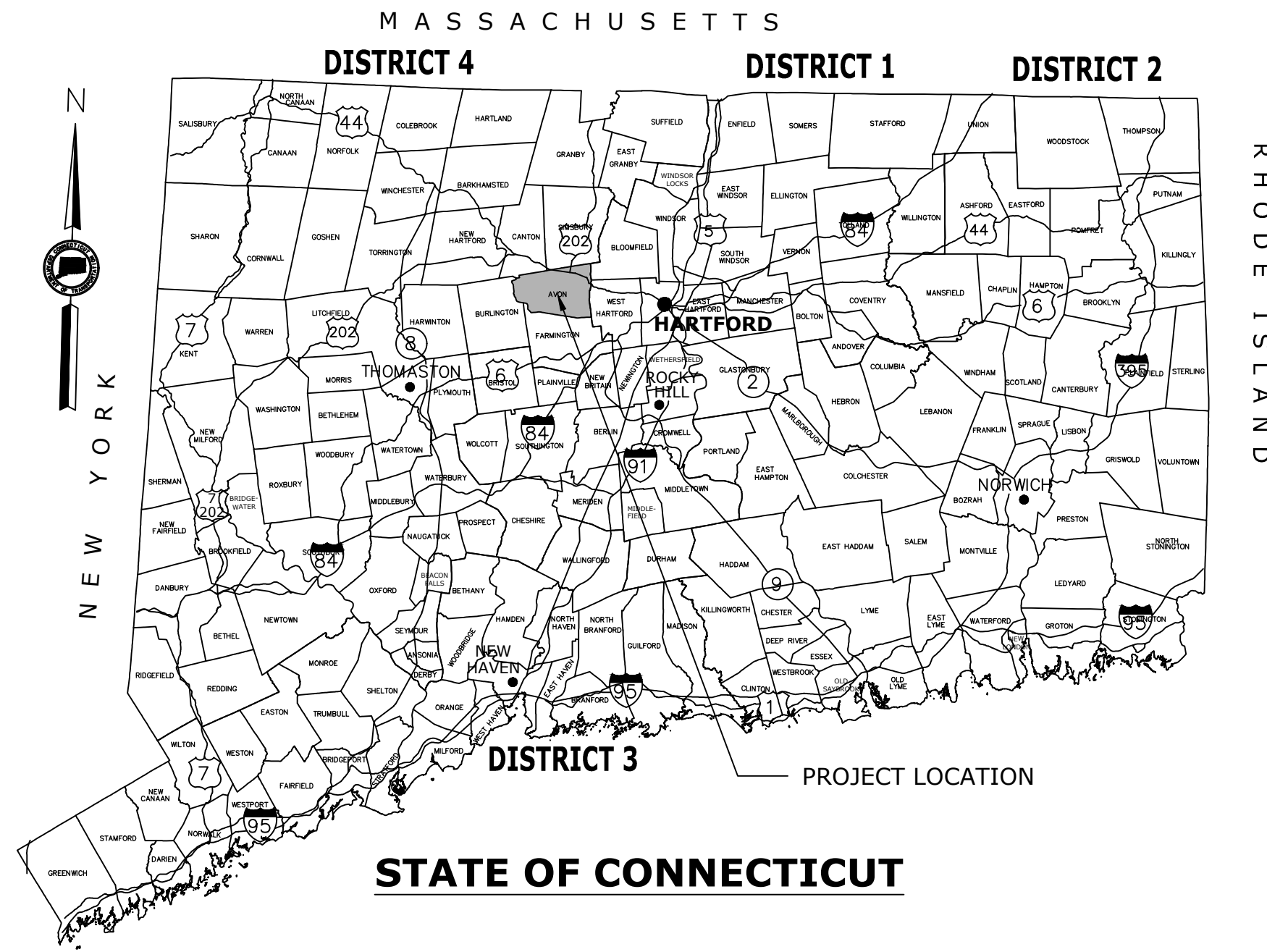


TOWN OF AVON



REPLACEMENT OF TILLOTSON ROAD BRIDGE OVER THOMPSON BROOK



PROJECT LOCATION PLAN
NOT TO SCALE

GENERAL NOTES:

- CONSTRUCTION SPECIFICATIONS:
Connecticut Department of Transportation, Standard Specifications for Roads, Bridges, Facilities and Incidental Construction, Form 819 dated 2024; with July 2025 Supplement
- 400 FOOT GRID BASED ON CONNECTICUT COORDINATE SYSTEM SYSTEM N.A.D. 1983
- VERTICAL DATUM BASED ON NAVD 1988
- SURVEY INFORMATION DERIVED FROM:
MARTIN SURVEY ASSOCIATES, LLC, APRIL 20TH, 2023

DESIGN CRITERIA

DESIGN STANDARD : CTDOT HIGHWAY DESIGN MANUAL 2023, REV JAN. 2023
 PROPOSED DESIGN SPEED : 40 MPH
 POSTED SPEED : 35 MPH
 HIGHWAY CLASSIFICATION : RURAL LOCAL ROADWAY
 AVERAGE DAILY TRAFFIC : 250 VPD (1991)

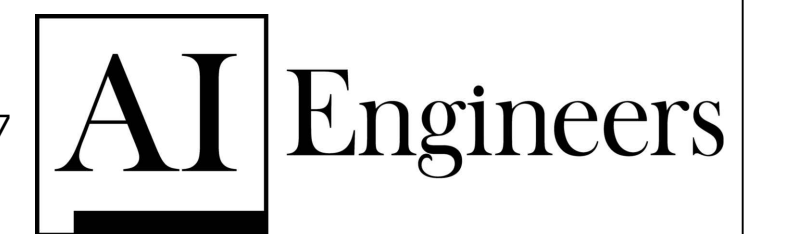
DISCLAIMER

IT IS THE RESPONSIBILITY OF EACH BIDDER AND ALL OTHER INTERESTED PARTIES TO OBTAIN ALL BIDDING RELATED INFORMATION AND DOCUMENTS FROM OFFICIAL SOURCES WITHIN THE TOWN ON NEW MILFORD.

PERSONS AND/OR ENTITIES WHICH REPRODUCE AND/OR MAKE SUCH INFORMATION AVAILABLE BY ANY MEANS ARE NOT AUTHORIZED BY THE TOWN ON NEW MILFORD TO DO SO AND MAY BE LIABLE FOR CLAIMS RESULTING FROM THE DISSEMINATION OF UNOFFICIAL, INCOMPLETE AND/OR INACCURATE INFORMATION.

LIST OF SUBSETS		
SUBSET NO.	SUBSET TITLE	*SUBSET SHEET COUNT
1	GENERAL	1
2	REVISIONS	1
3	HIGHWAY	12
4	STRUCTURE	13
5	TRAFFIC	12
	CTDOT HIGHWAY STANDARD DETAILS	15
	CTDOT TRAFFIC STANDARD DETAILS	3
	* THIS INITIAL SUBSET COUNT DOES NOT INCLUDE ADDENDUMS AND CHANGE ORDERS	

DESIGNED BY:
 919 MIDDLE STREET
 MIDDLETOWN, CT 06457
 Phone: (860) 635-7740
 Fax: (860) 635-7312
 www.aiengineers.com



Bohler



ROHIT B. PRADHAN
 CT. LIC. NO. 17242
 DATE 04/30/26

4/30/2026 4:14 PM

DESIGNER/DRAFTER: BS	TOWN OF AVON	SIGNATURE/ BLOCK: 919 MIDDLE STREET MIDDLETOWN, CT 06457	PROJECT TITLE: REPLACEMENT OF TILLOTSON ROAD BRIDGE OVER THOMPSON BROOK	TOWN: AVON	PROJECT NO. 9004-0015
CHECKED BY: SG				DRAWING TITLE: TITLE SHEET	DRAWING NO. G-01
SCALE AS NOTED	Plotted Date: 4/30/2026	Filename: 3572 TITLE SHEET.DWG			SHEET NO. G-01
REV.	DATE	REVISION DESCRIPTION	SHEET NO.		

MAP NOTES:

1. THIS MAP AND SURVEY HAVE BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THROUGH 20-300b-20 AND "THE MINIMUM STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" ADOPTED JUNE 21, 1996; AMENDED OCTOBER 26, 2018.
2. THE TYPE OF SURVEY PERFORMED AND THE MAPPED FEATURES DEPICTED HEREON ARE IN ACCORDANCE WITH THE REQUIREMENTS OF A TOPOGRAPHIC SURVEY AND IS INTENDED TO DEPICT TOPOGRAPHIC FEATURES IN THE VICINITY OF THE TILLOTSON ROAD BRIDGE OVER THOMPSON BROOK.
3. THE PROPERTY/BOUNDARY LINES DEPICTED HEREON CONFORM TO A CLASS D ACCURACY AND HAVE BEEN COMPILED FROM RECORD RESEARCH, OTHER MAPS, AND LIMITED FIELD OBSERVATIONS. IT IS NOT TO BE CONSTRUED AS HAVING BEEN OBTAINED AS THE RESULT OF A FIELD SURVEY AND IS SUBJECT TO SUCH CHANGE AS AN ACCURATE FIELD SURVEY MAY DISCLOSE.

MAP REFERENCES:

- A. "RESURVEY MAP, LAND OF FISHER FAMILY PROPERTIES TILLOTSON ROAD & OLD FARMS ROAD AVON, CONNECTICUT" SCALE: 1"=200'; DATED: MARCH 2002; BY: HODGE SURVEYING ASSOCIATES.

MAP NOTES:

4. THE HORIZONTAL BASELINE CONFORMS TO A CLASS A-2 ACCURACY. THE VERTICAL BASELINE CONFORMS TO A CLASS V-2 ACCURACY. THE TOPOGRAPHIC FEATURES CONFORM TO A CLASS T-2 ACCURACY.
5. THE NORTH ARROW AND BEARINGS ARE BASED UPON THE CONNECTICUT STATE COORDINATE SYSTEM N.A.D. 1983 (2011). THE ELEVATIONS ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) USING GEOID 18. COORDINATES AND ELEVATIONS WERE DETERMINED FROM RTK GPS OBSERVATIONS MADE ON FEBRUARY 15, 2023 USING THE CT DOT RTK NETWORK KNOWN AS ACORN (CTNE BASE), HAVING THE FOLLOWING VALUES:

LATITUDE = N 41° 40' 24.71719"
 LONGITUDE = W 72° 42' 52.25224"
 ELLIPSOID HEIGHT = 41.746M

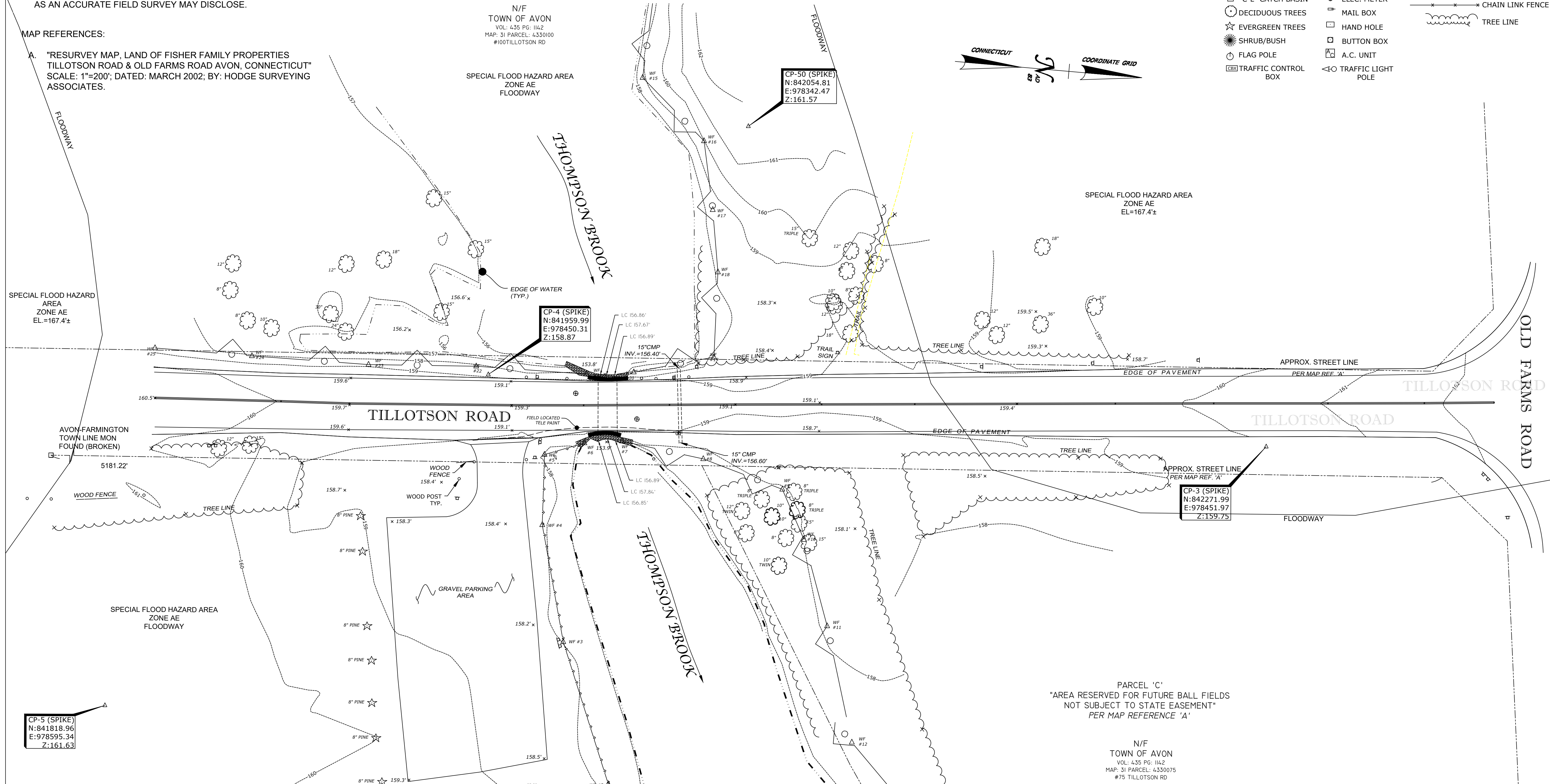
N/F
 TOWN OF AVON
 VOL: 435 PG: 1142
 MAP: 31 PARCEL: 4330100
 #100TILLOTSON RD

MAP NOTES:

6. UNDERGROUND UTILITIES, STRUCTURES AND FACILITY LOCATIONS DEPICTED AND NOTED HEREON ARE BASED UPON OBSERVABLE SURFACE EVIDENCE WHILE CONDUCTING THE FIELD SURVEY. THESE LOCATIONS MUST BE CONSIDERED AS APPROXIMATE IN NATURE. ADDITIONALLY, OTHER SUCH FEATURES MAY EXIST ON THE SITE, THE EXISTENCE WHICH IS UNKNOWN TO MARTIN SURVEYING ASSOCIATES, LLC.. ALL CONTRACTORS ARE REQUIRED TO CONTACT CALL-BEFORE-YOU-DIG AT 1-800-922-4455 FOR LOCATION AND OR STAKEOUT OF ANY UTILITY PRIOR TO ANY EXCAVATION.
7. THE TOPOGRAPHIC FEATURES DEPICTED HEREON ARE THE RESULT OF A FIELD SURVEY CONDUCTED FEBRUARY THROUGH APRIL, 2023.
8. THE FEMA FLOOD ZONES DEPICTED HEREON ARE BASED UPON GRAPHICAL DEPICTION OF FLOOD INSURANCE RATE MAP NUMBER: 09003C0339F; PANEL: 339 OF 675; HARTFORD COUNTY, CONNECTICUT; EFFECTIVE DATE SEPTEMBER 26, 2008.

LEGEND:

- IRON PIN (FOUND)
- Rebar/Drill Hole (To Be Set)
- ⊕ MONUMENT (FOUND)
- ⊙ MANHOLE
- ⊕ DRAINAGE MANHOLE
- ⊙ SANITARY MANHOLE
- ⊕ ELEC. MANHOLE
- ⊕ TELE. MANHOLE
- ⊕ "C" CATCH BASIN
- ⊕ "C-L" CATCH BASIN
- ⊕ DECIDUOUS TREES
- ⊕ EVERGREEN TREES
- ⊕ SHRUB/BUSH
- ⊕ FLAG POLE
- ⊕ TRAFFIC CONTROL BOX
- △ SIGN
- POST
- ☆ LIGHT POLE
- ⊕ GUY ANCHOR
- UTILITY POLE
- WG WATER GATE
- WM WATER METER
- GV GAS VALVE
- GM GAS METER
- ⊕ TRANSFORMER
- ⊕ ELEC. METER
- ⊕ MAIL BOX
- ⊕ HAND HOLE
- ⊕ BUTTON BOX
- ⊕ A.C. UNIT
- ⊕ TRAFFIC LIGHT POLE
- BOUNDARY LINE
- GUARD RAIL
- UNDERGROUND PIPING (San.,Stm.)
- G U/G GAS LINE
- E U/G ELEC. LINE
- W WATER LINE
- \\ OVERHEAD UTILITIES
- T U/G TELE. LINE
- CHAIN LINK FENCE
- TREE LINE



CP-5 (SPIKE)
 N: 841818.96
 E: 978595.34
 Z: 161.63

CP-4 (SPIKE)
 N: 841959.99
 E: 978450.31
 Z: 158.87

CP-50 (SPIKE)
 N: 842054.81
 E: 978342.47
 Z: 161.57

CP-3 (SPIKE)
 N: 842271.99
 E: 978451.97
 Z: 159.75

PARCEL 'C'
 "AREA RESERVED FOR FUTURE BALL FIELDS
 NOT SUBJECT TO STATE EASEMENT"
 PER MAP REFERENCE 'A'

N/F
 TOWN OF AVON
 VOL: 435 PG: 1142
 MAP: 31 PARCEL: 4330075
 #75 TILLOTSON RD

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 4/30/2026

DESIGNER/DRAFTER: BS
 CHECKED BY: SG
 SCALE IN FEET
 0 20 40
 1"=20'

TOWN OF AVON

Filename: SUR-01 SURVEY PLAN.DWG

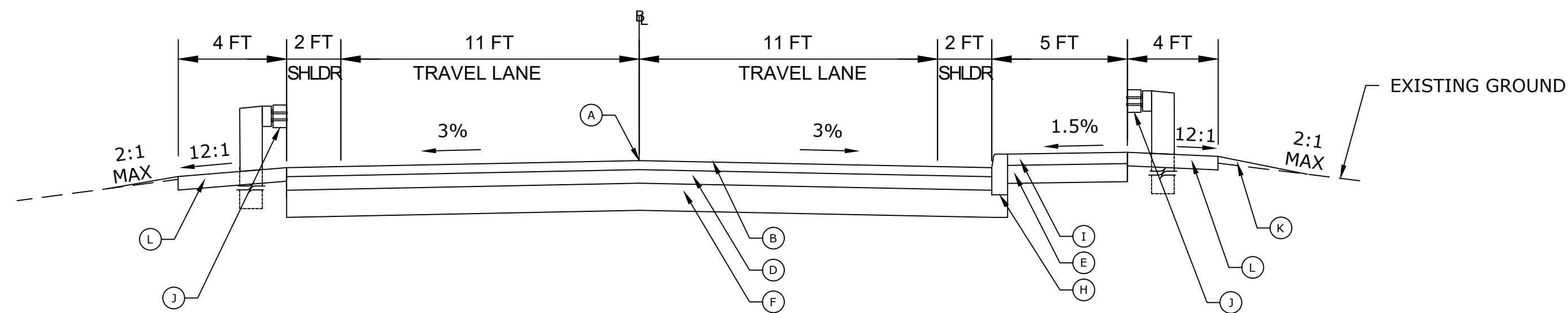
SIGNATURE/BLOCK:

 919 MIDDLE STREET
 MIDDLETOWN, CT 06457

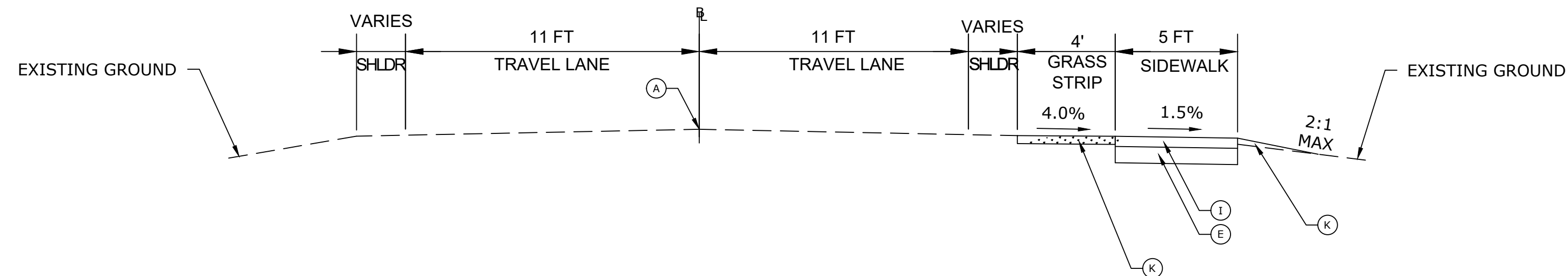
PROJECT TITLE:
**REPLACEMENT OF
 TILLOTSON ROAD BRIDGE
 OVER THOMPSON BROOK**

TOWN: **AVON**
 DRAWING TITLE:
SURVEY PLAN

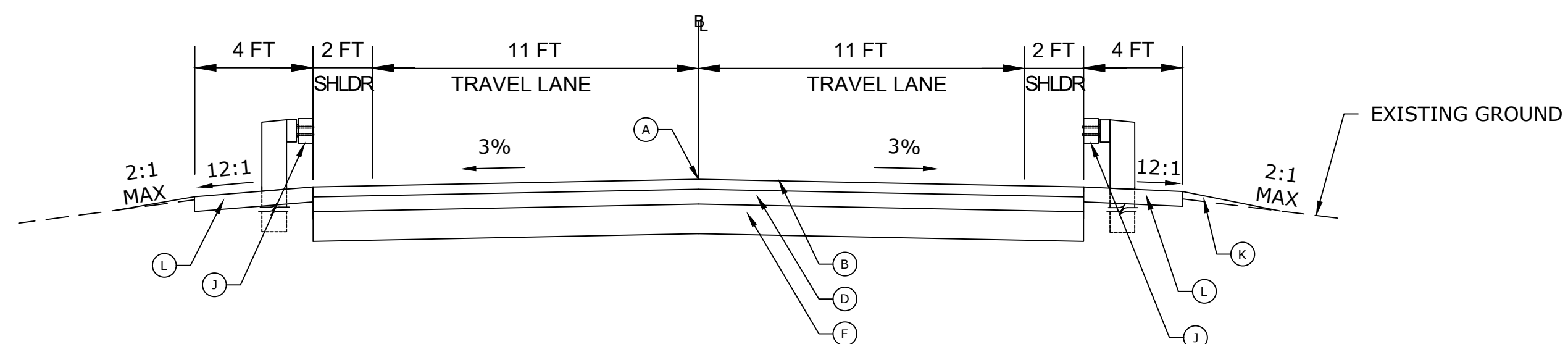
PROJECT NO. **9004-0015**
 DRAWING NO. **SUR-01**
 SHEET NO.



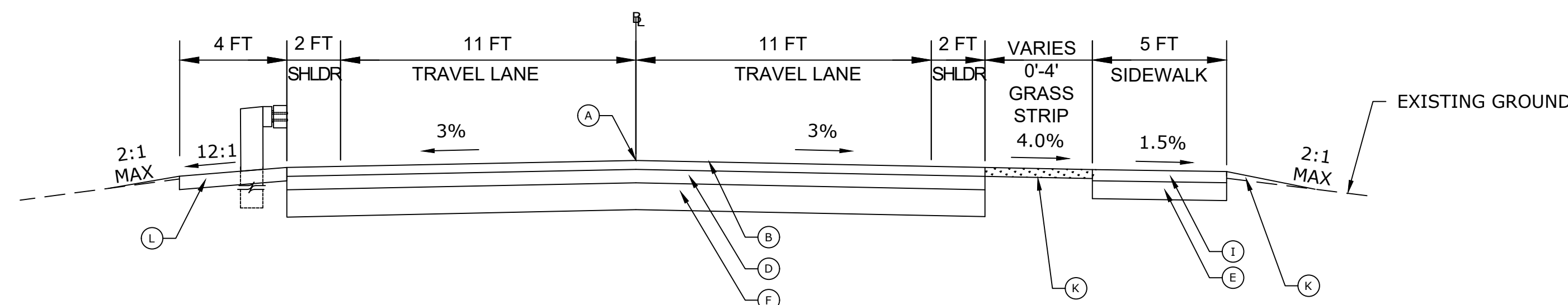
TYPICAL CROSS SECTION
STA. 12+90 TO STA. 14+25
 NOT TO SCALE



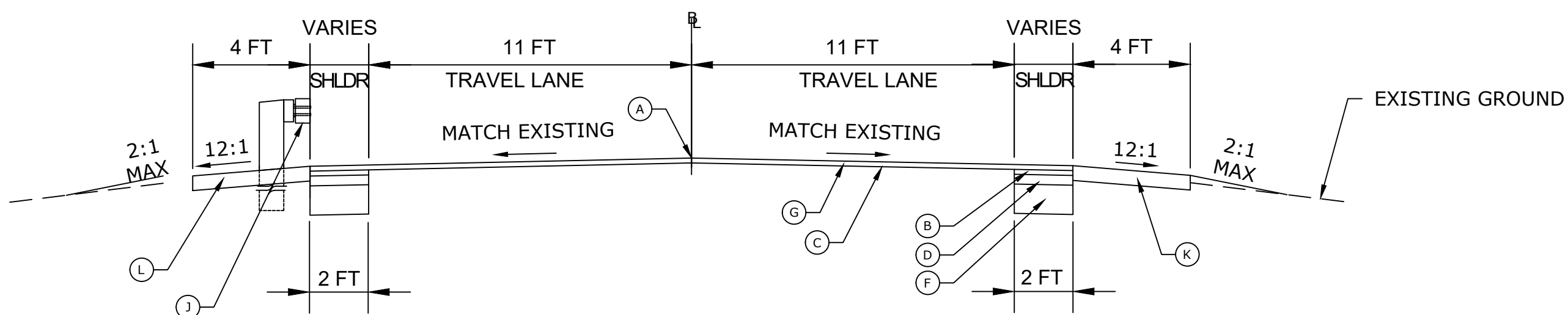
TYPICAL CROSS SECTION
STA. 15+00 TO STA. 16+52
 NOT TO SCALE



TYPICAL CROSS SECTION
STA. 11+90 TO STA. 12+90
 NOT TO SCALE



TYPICAL CROSS SECTION
STA. 14+25 TO STA. 14+57
 NOT TO SCALE



TYPICAL CROSS SECTION
STA. 11+70 TO STA. 11+90
STA. 14+57 TO STA. 15+00
 NOT TO SCALE

LEGEND

- (A) POINT OF APPLICATION OF GRADE
- (B) 1.5" HMA S0.375 LEVEL 2
- (C) 2" HMA S0.375 LEVEL 2
- (D) 2.5" HMA S1.0 TRAFFIC LEVEL 2
- (E) 8" PROCESSED AGGREGATE BASE
- (F) 9" PROCESSED AGGREGATE BASE
- (G) 2" FINE MILLING DEPTH FROM EXISTING
- (H) CONCRETE CURB
- (I) 5" CONCRETE
- (J) MERRITT PARKWAY GUIDERAIL
- (K) 4" TOPSOIL AND TURF ESTABLISHMENT
- (L) 6" PROCESSED AGGREGATE

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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DESIGNER/DRAFTER: BS
 CHECKED BY: SG
 SCALE AS NOTED

TOWN OF AVON
 Filename: TYP-01 TYPICAL SECTIONS.DWG

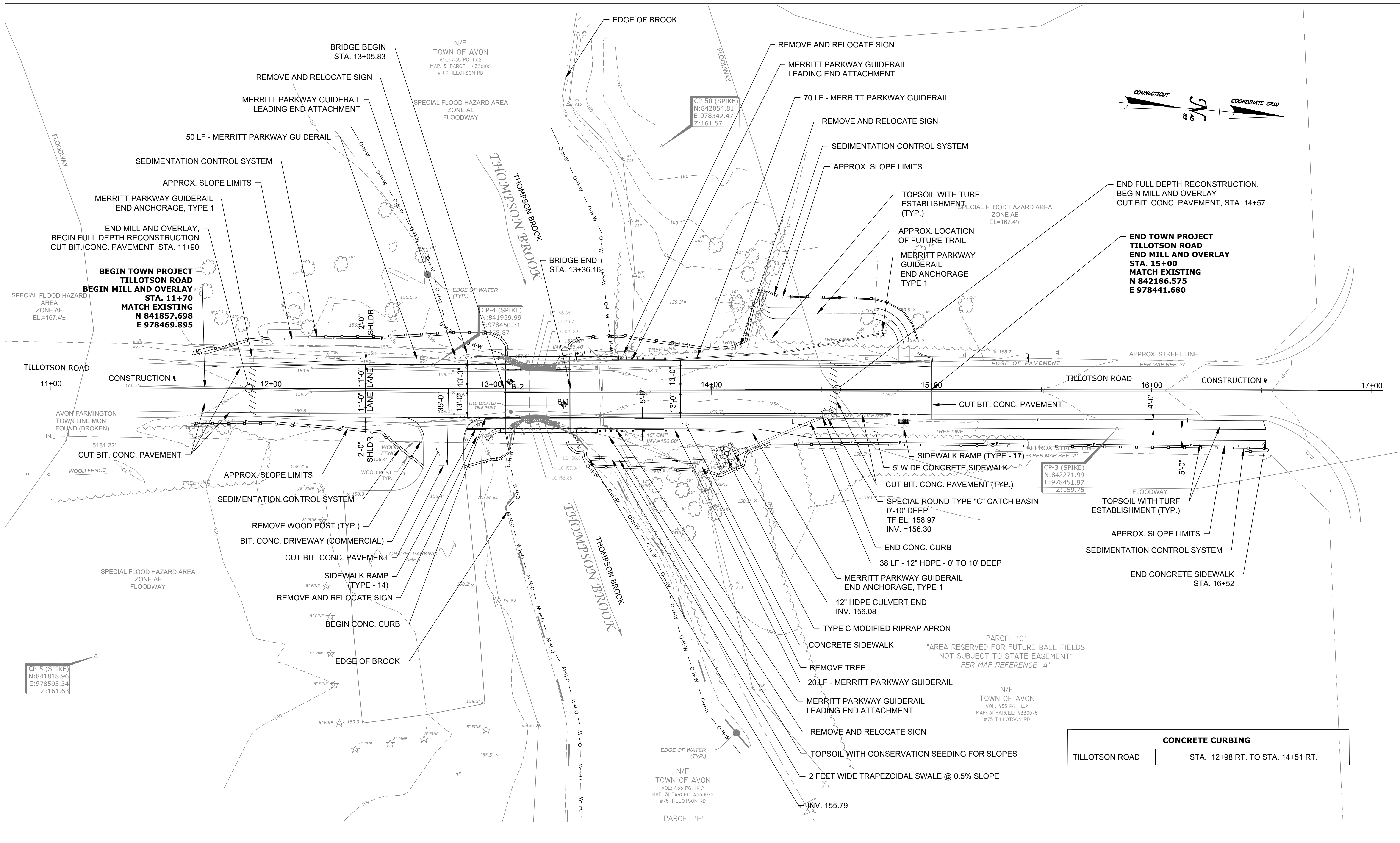
SIGNATURE/BLOCK:

 919 MIDDLE STREET
 MIDDLETOWN, CT 06457

PROJECT TITLE:
**REPLACEMENT OF
 TILLOTSON ROAD BRIDGE
 OVER THOMPSON BROOK**

TOWN:
AVON
 DRAWING TITLE:
TYPICAL SECTIONS

PROJECT NO.
9004-0015
 DRAWING NO.
TYP-01
 SHEET NO.



CONCRETE CURBING	
TILLOTSON ROAD	STA. 12+98 RT. TO STA. 14+51 RT.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 4/30/2026

DESIGNER/DRAFTER: BS
 CHECKED BY: SG
 SCALE IN FEET
 0 20 40
 1"=20'

TOWN OF AVON

Filename: 3572 HIGHWAY PLAN.DWG

SIGNATURE/BLOCK:

 919 MIDDLE STREET
 MIDDLETOWN, CT 06457

PROJECT TITLE:
**REPLACEMENT OF
 TILLOTSON ROAD BRIDGE
 OVER THOMPSON BROOK**

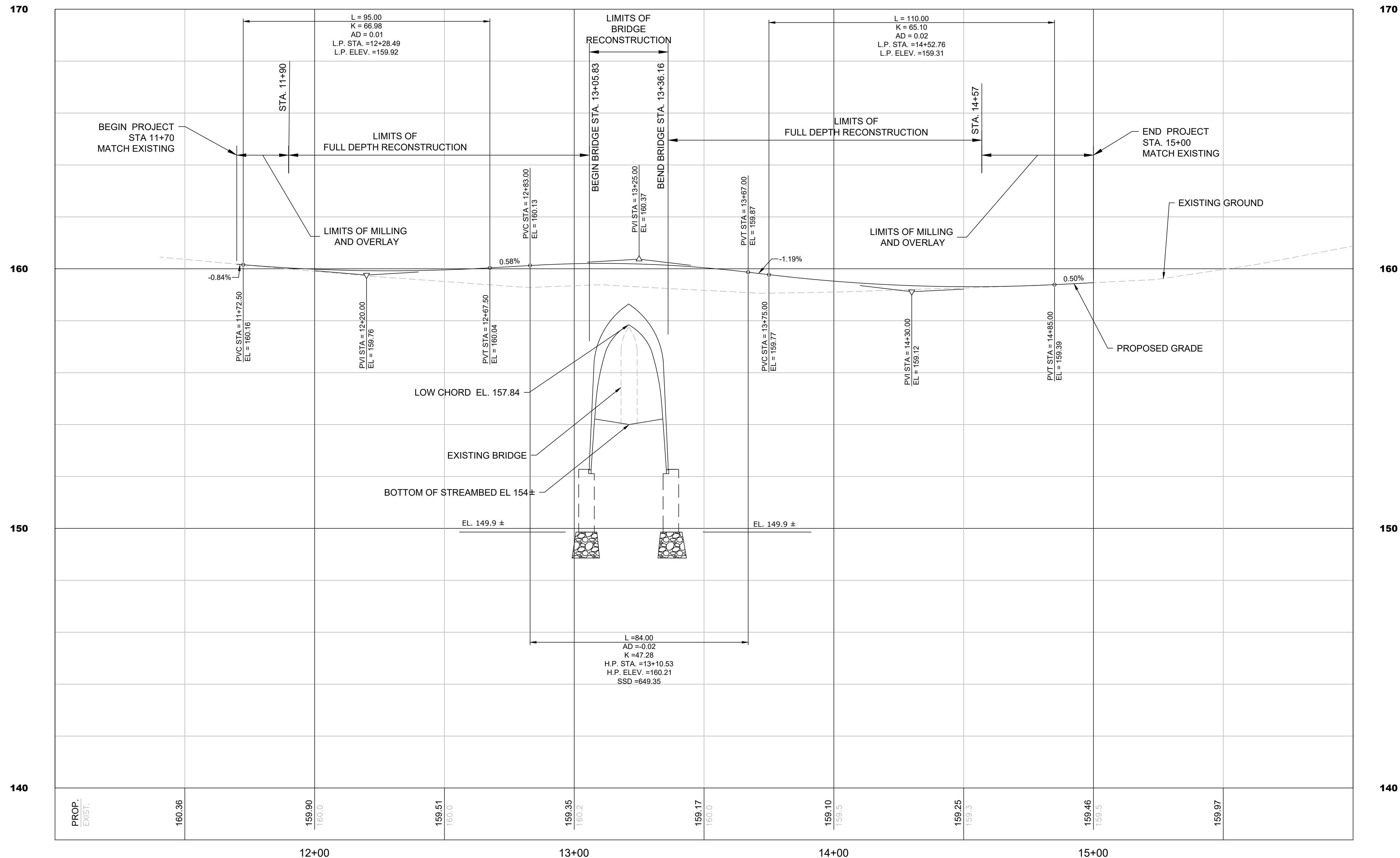
TOWN:
AVON

DRAWING TITLE:
HIGHWAY PLAN

PROJECT NO.
9004-0015

DRAWING NO.
HWY-01

SHEET NO.



TILLOTSON ROAD PROFILE

HOR. SCALE: 1" = 20'
VERT. SCALE: 1" = 2'

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 4/30/2026

DESIGNER/DRAFTER: BS
CHECKED BY: SG

HORIZ. SCALE IN FEET
0 20 40

VERT. SCALE IN FEET
0 2 4

TOWN OF AVON

Filename: PRO-01 ROADWAY PROFILE.DWG

SIGNATURE/BLOCK:

919 MIDDLE STREET
MIDDLETOWN, CT 06457

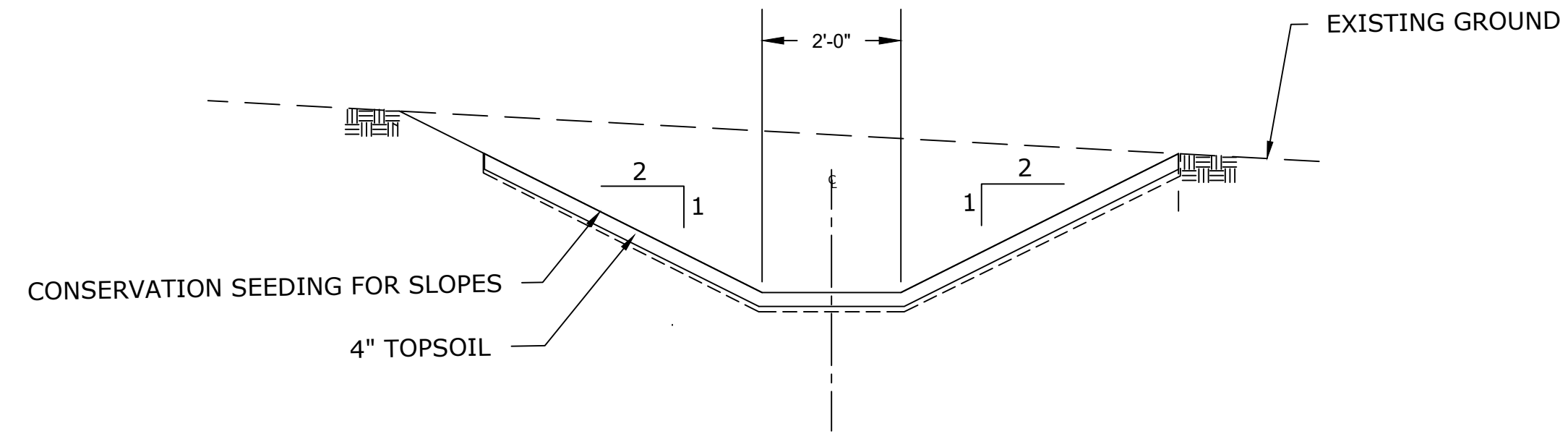
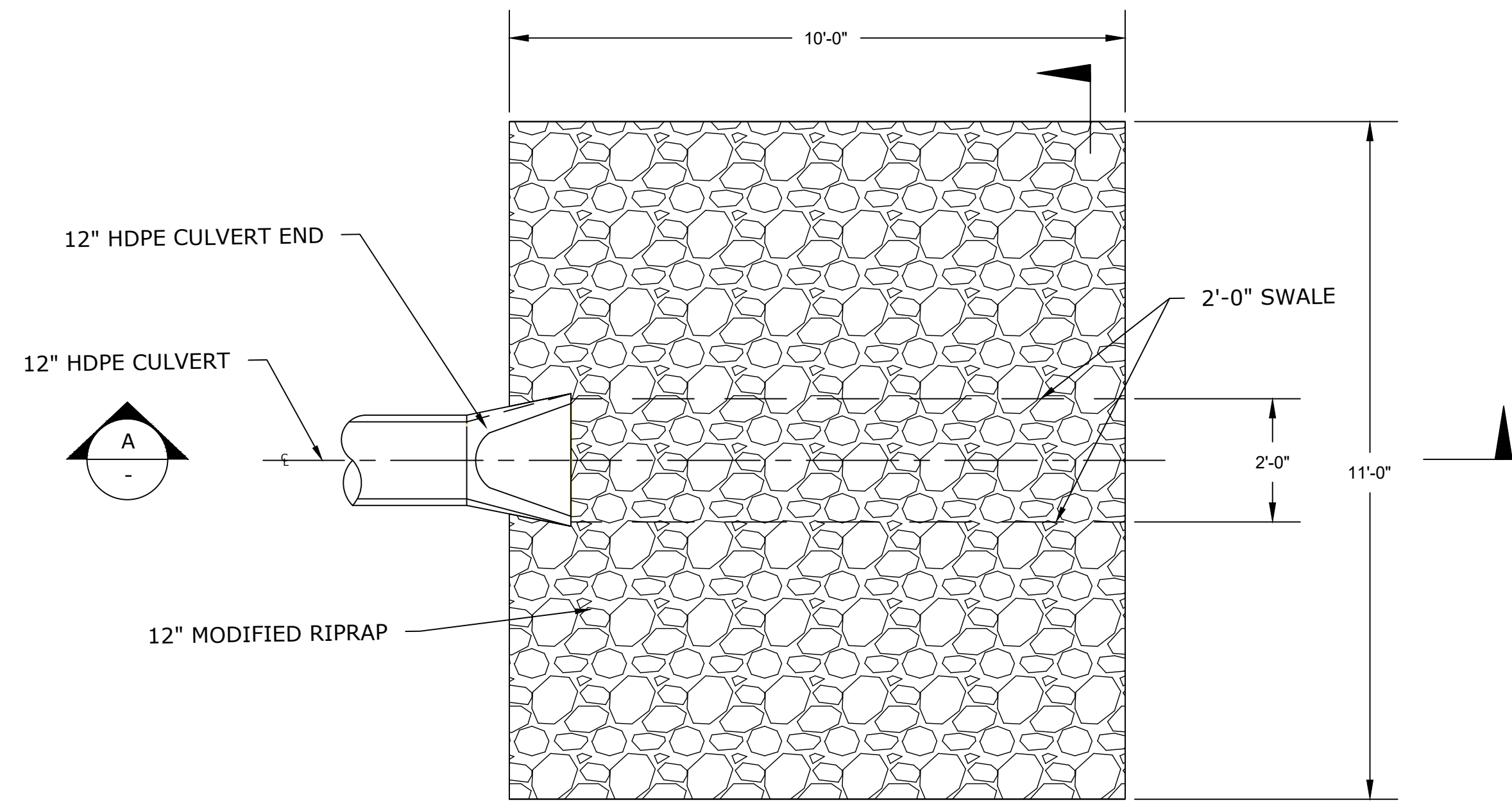
PROJECT TITLE:

**REPLACEMENT OF
TILLOTSON ROAD BRIDGE
OVER THOMPSON BROOK**

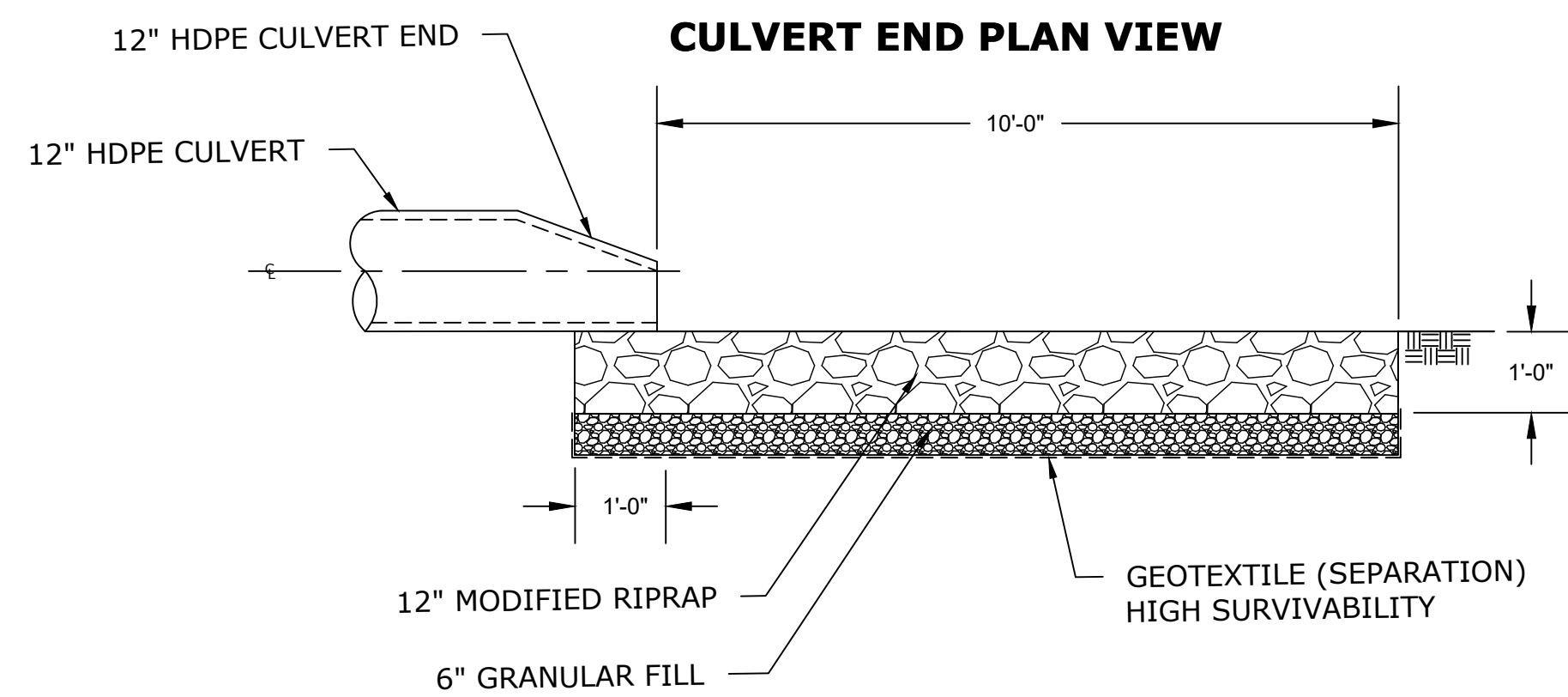
TOWN: **AVON**

DRAWING TITLE:
ROADWAY PROFILE

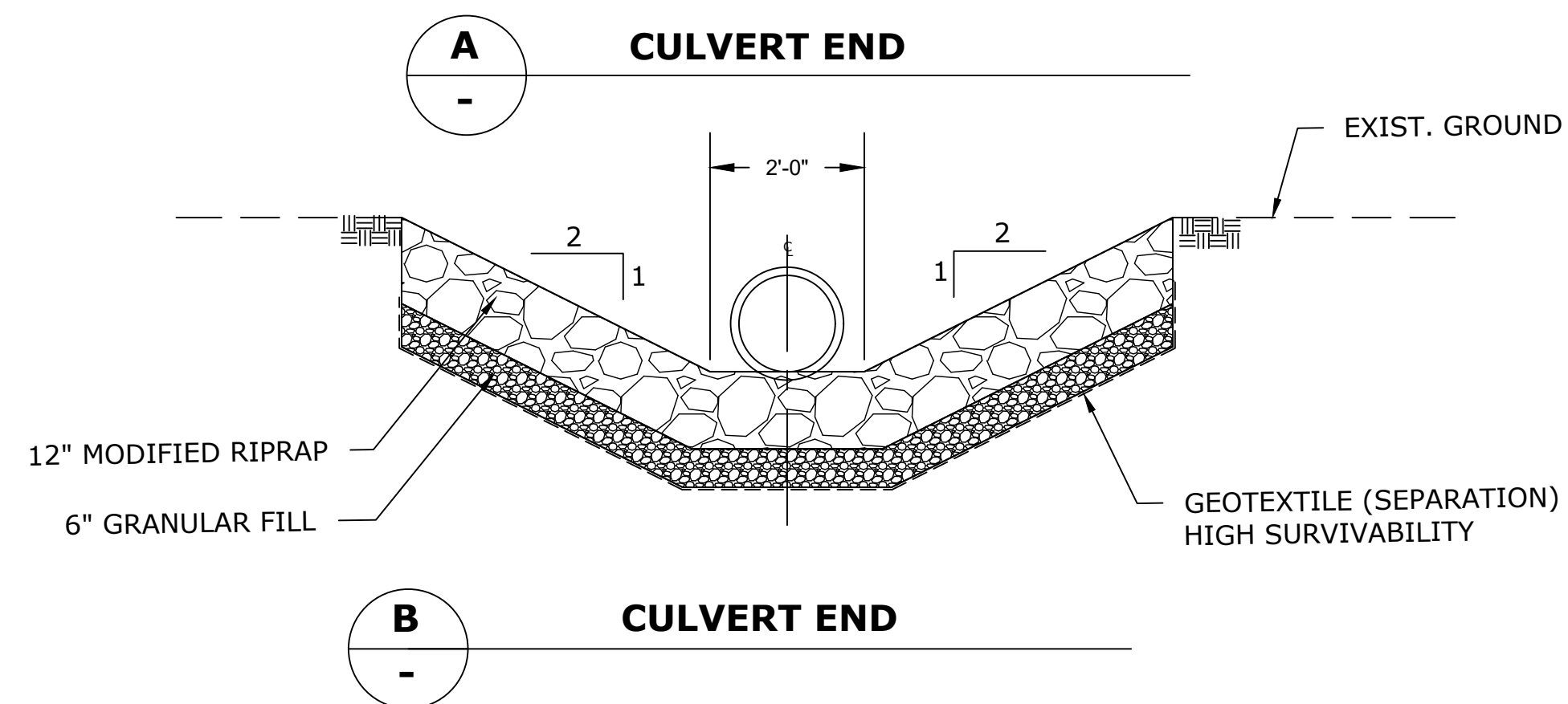
PROJECT NO. **9004-0015**
DRAWING NO. **PRO-01**
SHEET NO.



VEGETATED SWALE
N.T.S.



CULVERT END PLAN VIEW



A
CULVERT END

B
CULVERT END

TYPE C MODIFIED RIPRAP APRON
N.T.S.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 4/30/2026

DESIGNER/DRAFTER: BS
CHECKED BY: SG
SCALE AS NOTED

TOWN OF AVON

Filename: MDS-01 MISCELLANEOUS DETAILS.DWG

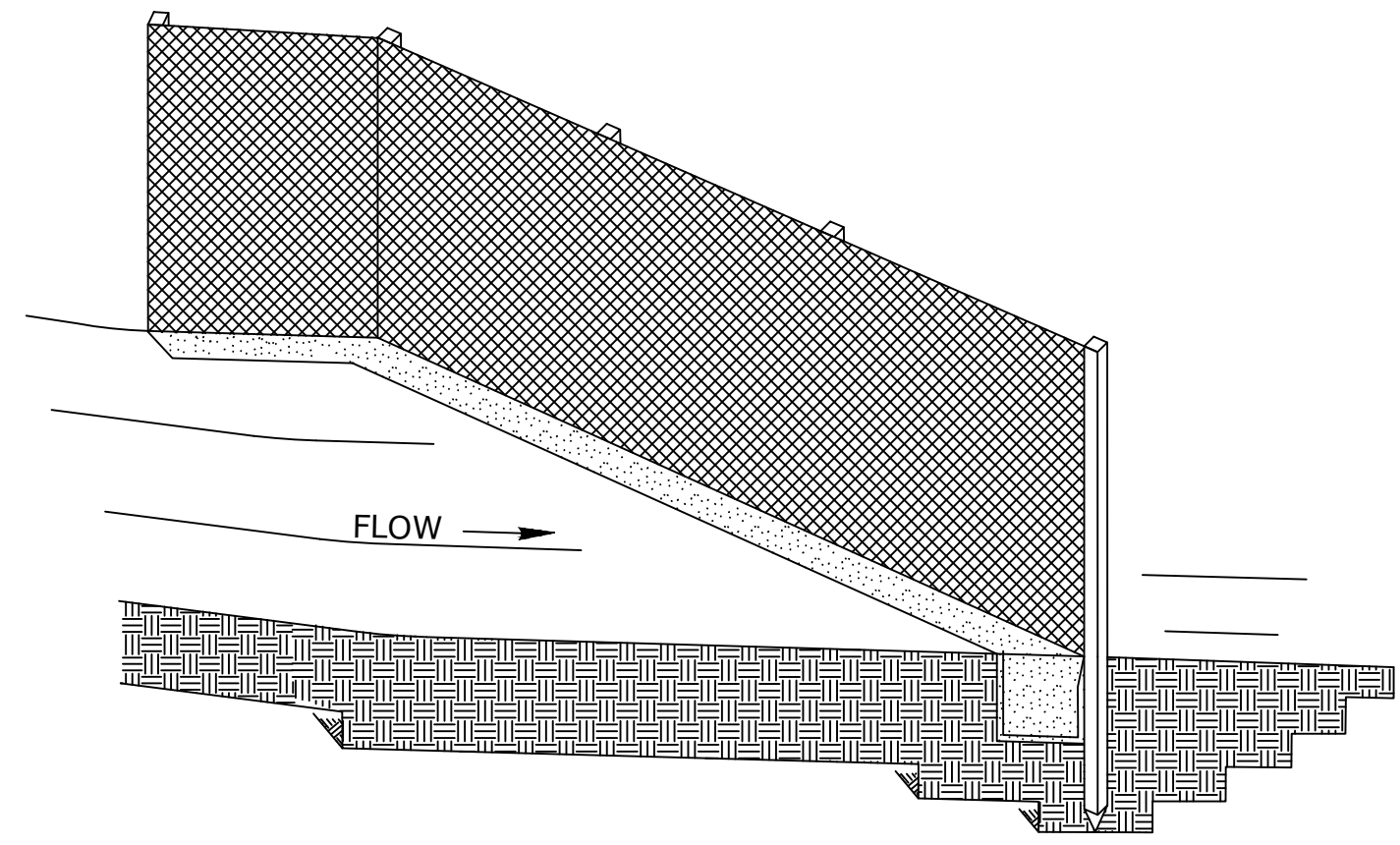
SIGNATURE/BLOCK:
AI Engineers
919 MIDDLE STREET
MIDDLETOWN, CT 06457

PROJECT TITLE:
REPLACEMENT OF TILLOTSON ROAD BRIDGE OVER THOMPSON BROOK

TOWN: **AVON**

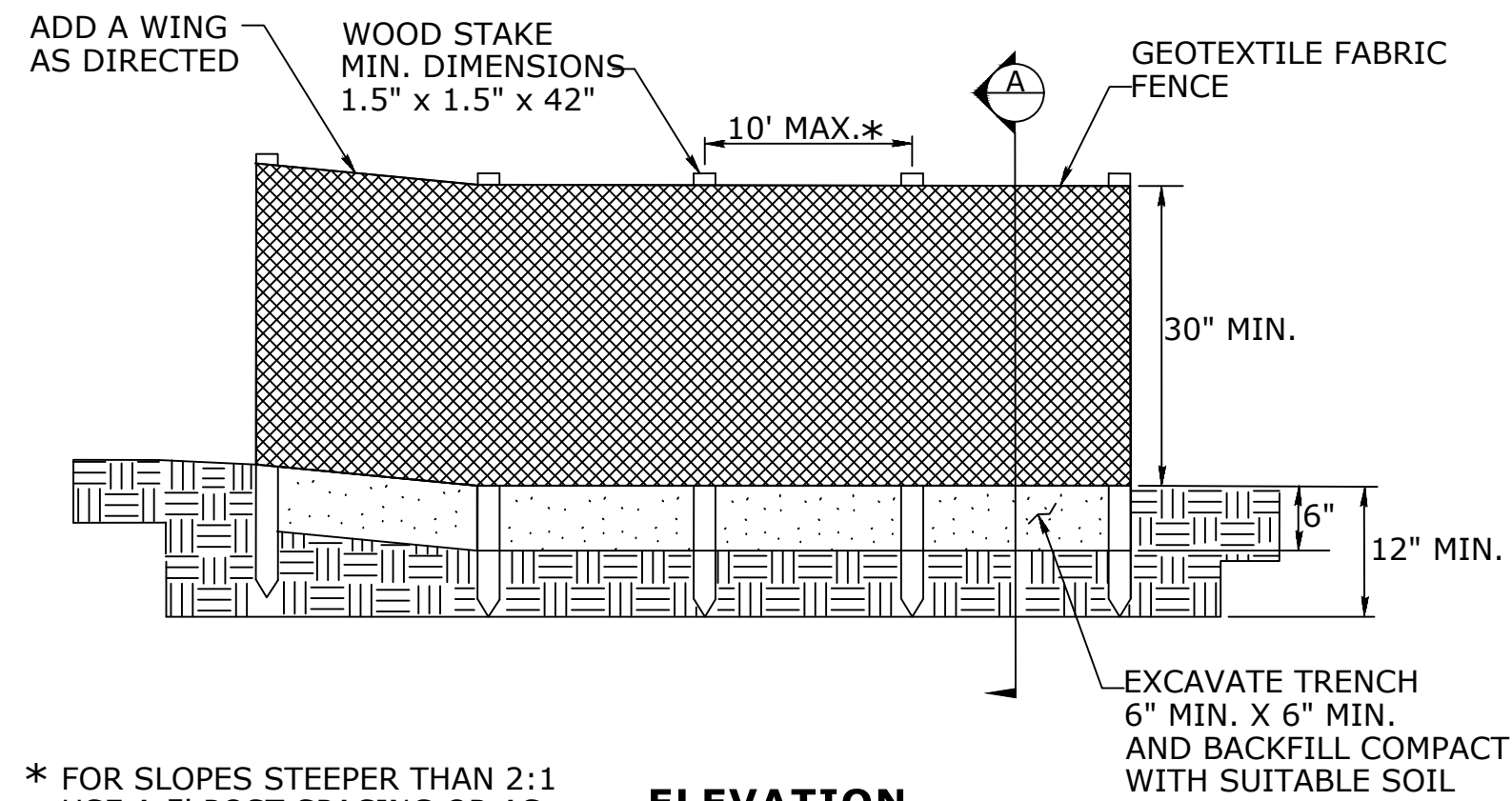
DRAWING TITLE:
MISCELLANEOUS DETAILS-1

PROJECT NO. **9004-0015**
DRAWING NO. **MDS-01**
SHEET NO.



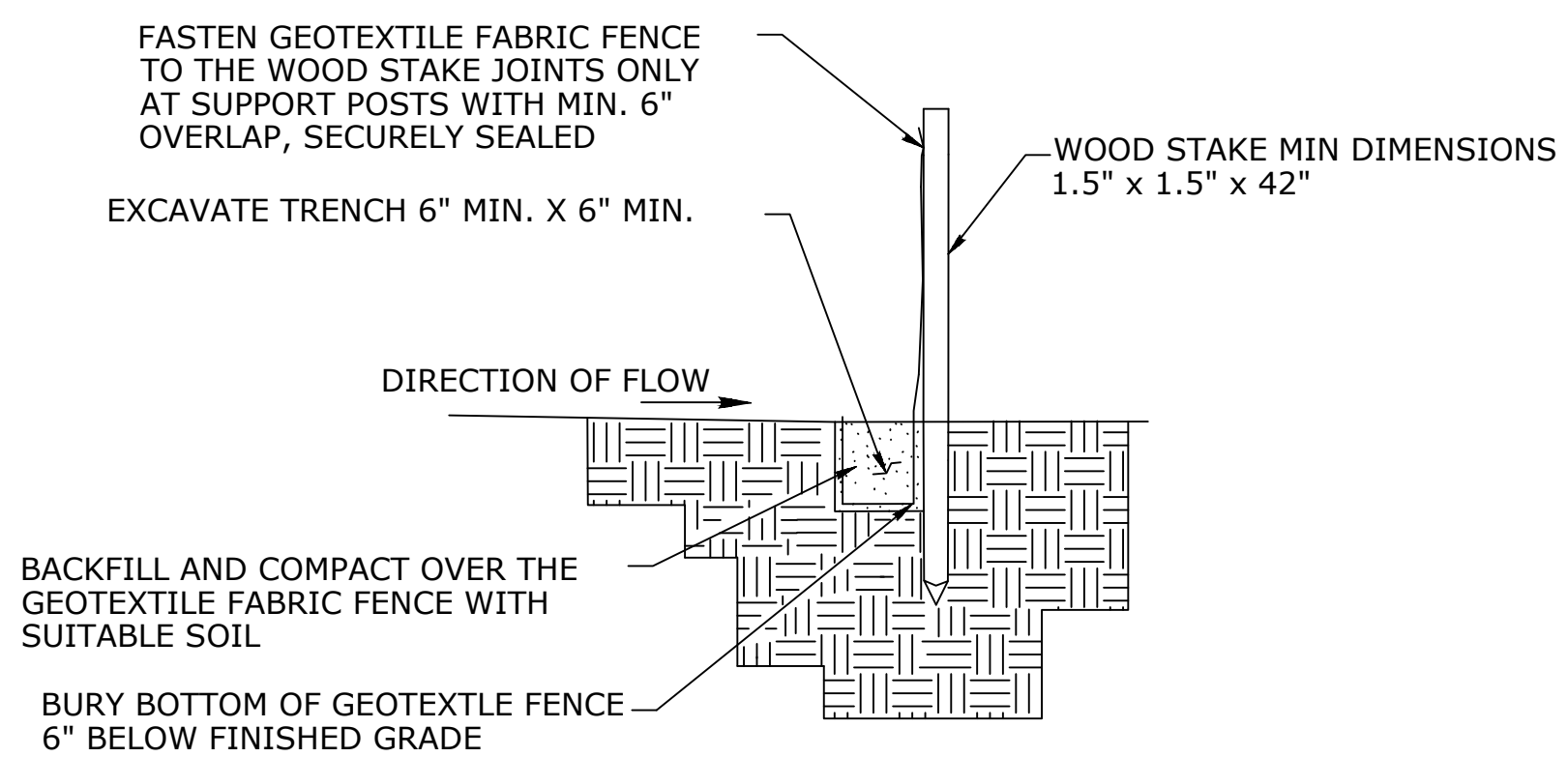
SEDIMENTATION CONTROL SYSTEM
NOT TO SCALE

INSTALL THE WING WHEN THE FENCE IS MORE THAN 4' FROM THE TOE OF SLOPE AND THE FENCE LINE GRADIENT IS 5% OR MORE



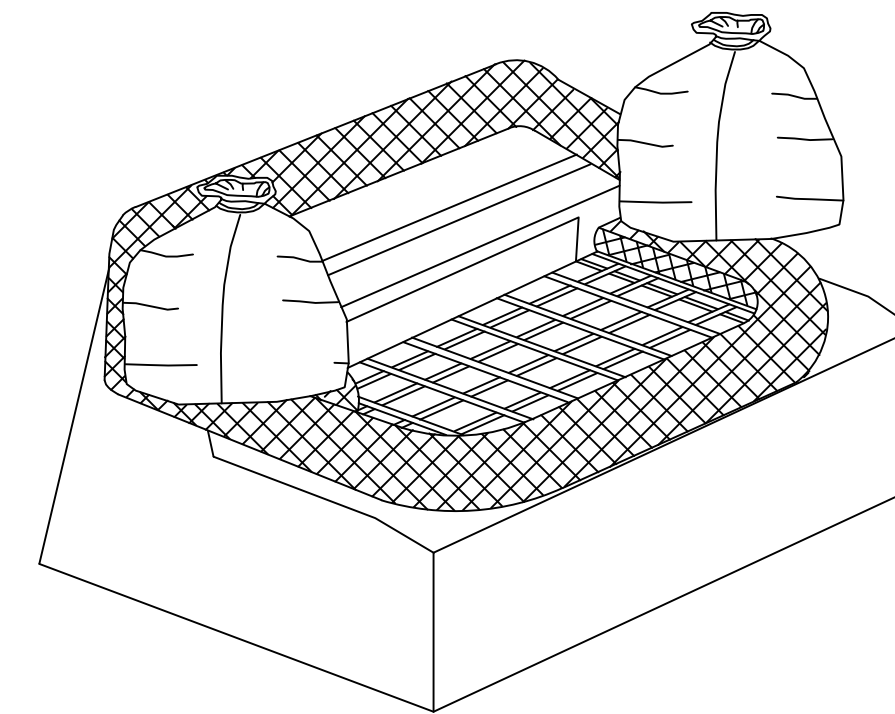
* FOR SLOPES STEEPER THAN 2:1 USE A 5' POST SPACING OR AS DIRECTED BY THE ENGINEER

ELEVATION
NOT TO SCALE



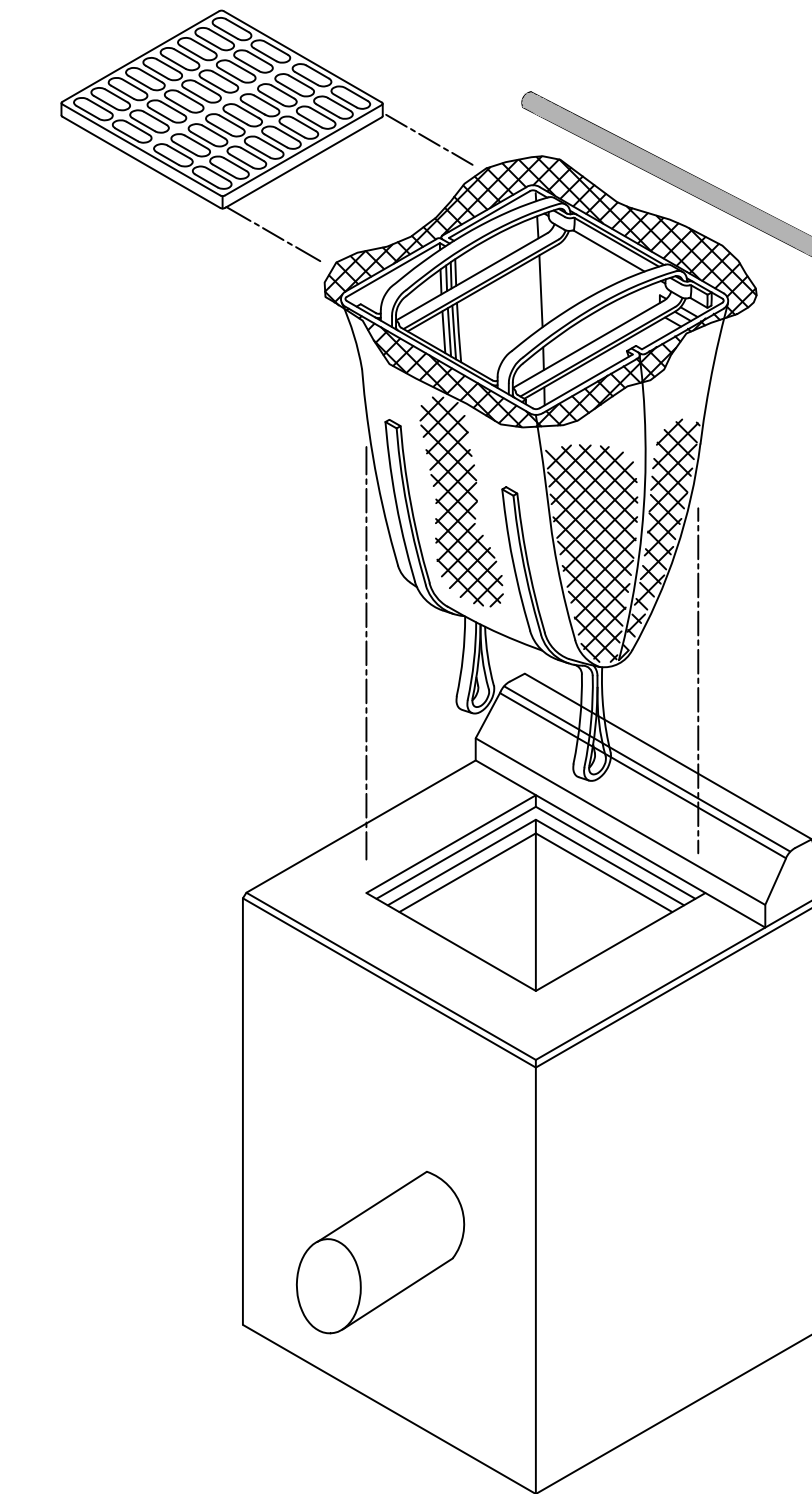
SECTION A

NOT TO SCALE



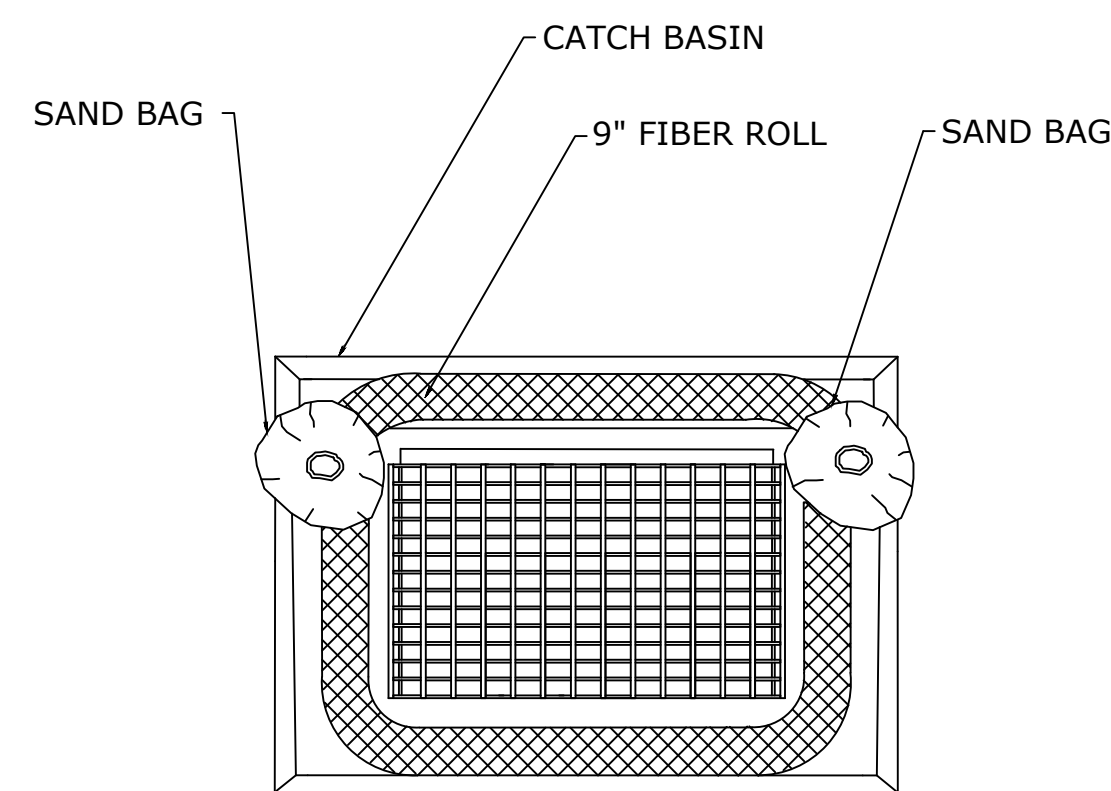
FIBER ROLL AROUND TYPE "C" OR "C-L" CATCH BASIN TOP
NOT TO SCALE

NOTE: THIS ITEM WILL BE MEASURED BY EACH SEDIMENT CONTROL SYSTEM AT CATCH BASIN

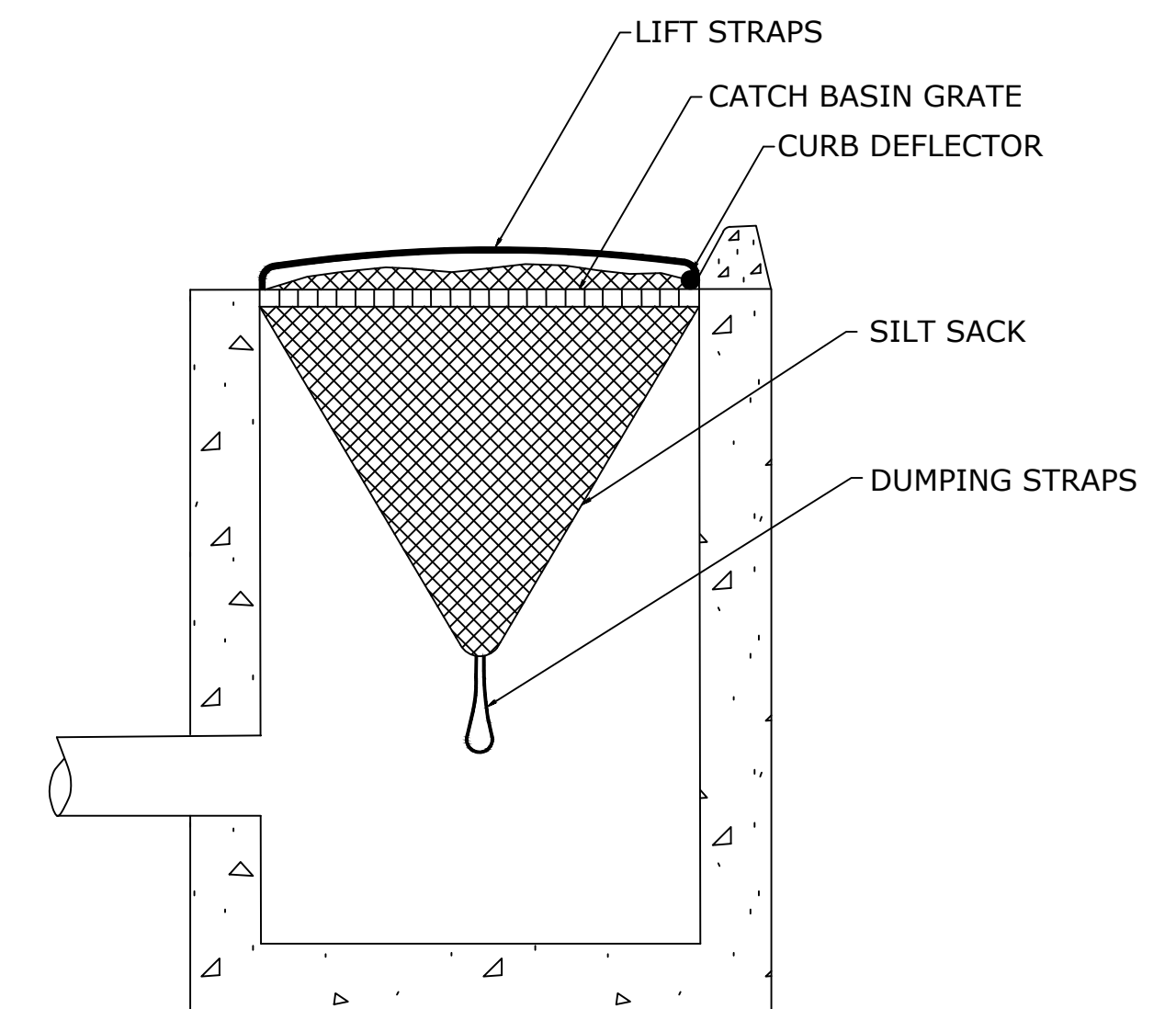


INLET SEDIMENT CONTROL DEVICE AT TYPE "C" OR "C-L" CATCH BASIN
NOT TO SCALE

NOTE: THIS ITEM WILL BE MEASURED BY EACH SEDIMENT CONTROL SYSTEM AT CATCH BASIN



PLAN
NOT TO SCALE



SECTION
NOT TO SCALE

BS

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 4/30/2026

DESIGNER/DRAFTER:
CHECKED BY: SG
SCALE AS NOTED

TOWN OF AVON

Filename: MDS-01 MISCELLANEOUS DETAILS.DWG

SIGNATURE/BLOCK:
AI Engineers
919 MIDDLE STREET
MIDDLETOWN, CT 06457

PROJECT TITLE:
REPLACEMENT OF TILLOTSON ROAD BRIDGE OVER THOMPSON BROOK

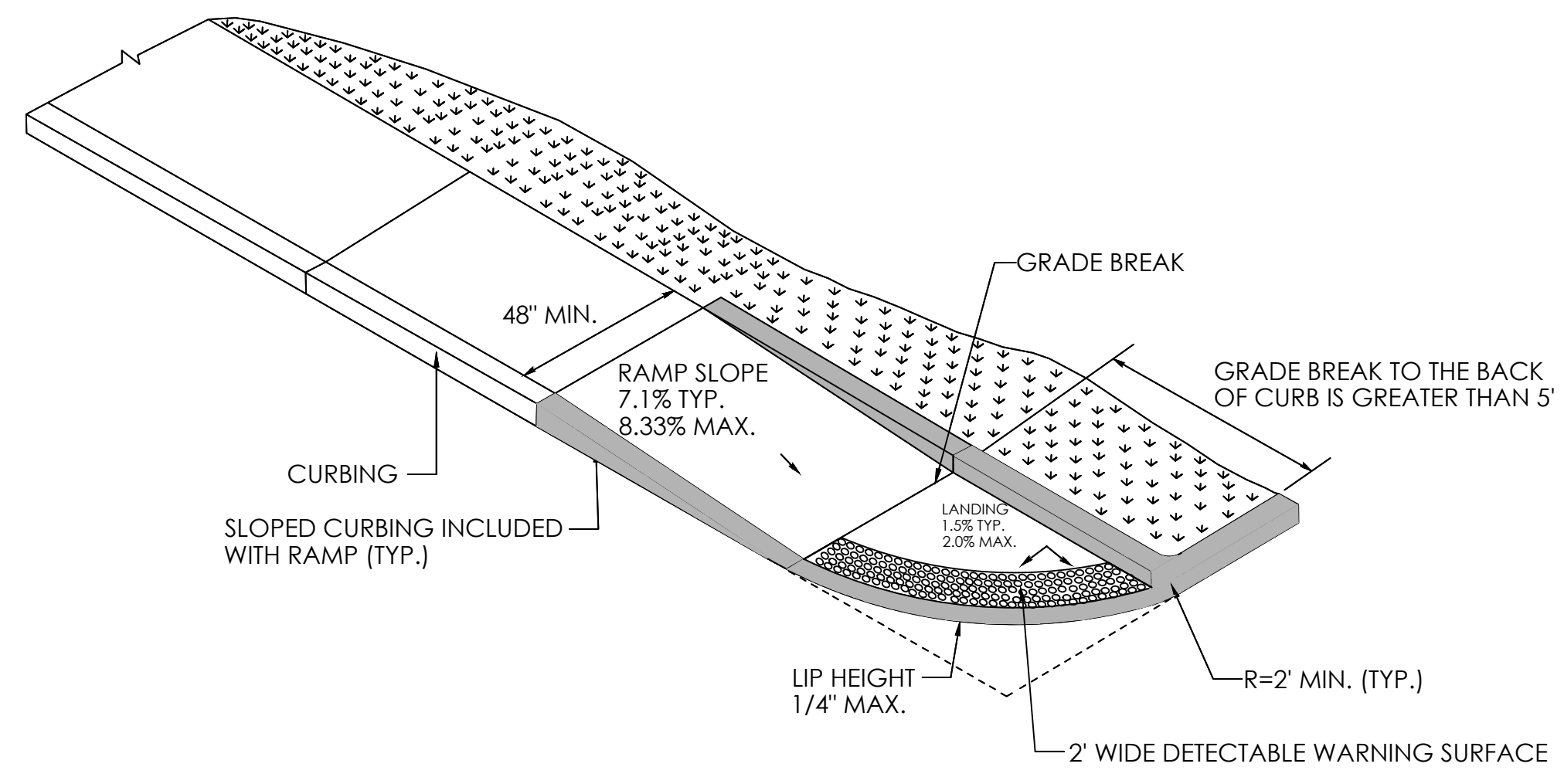
TOWN:
AVON

DRAWING TITLE:
MISCELLANEOUS DETAILS-2

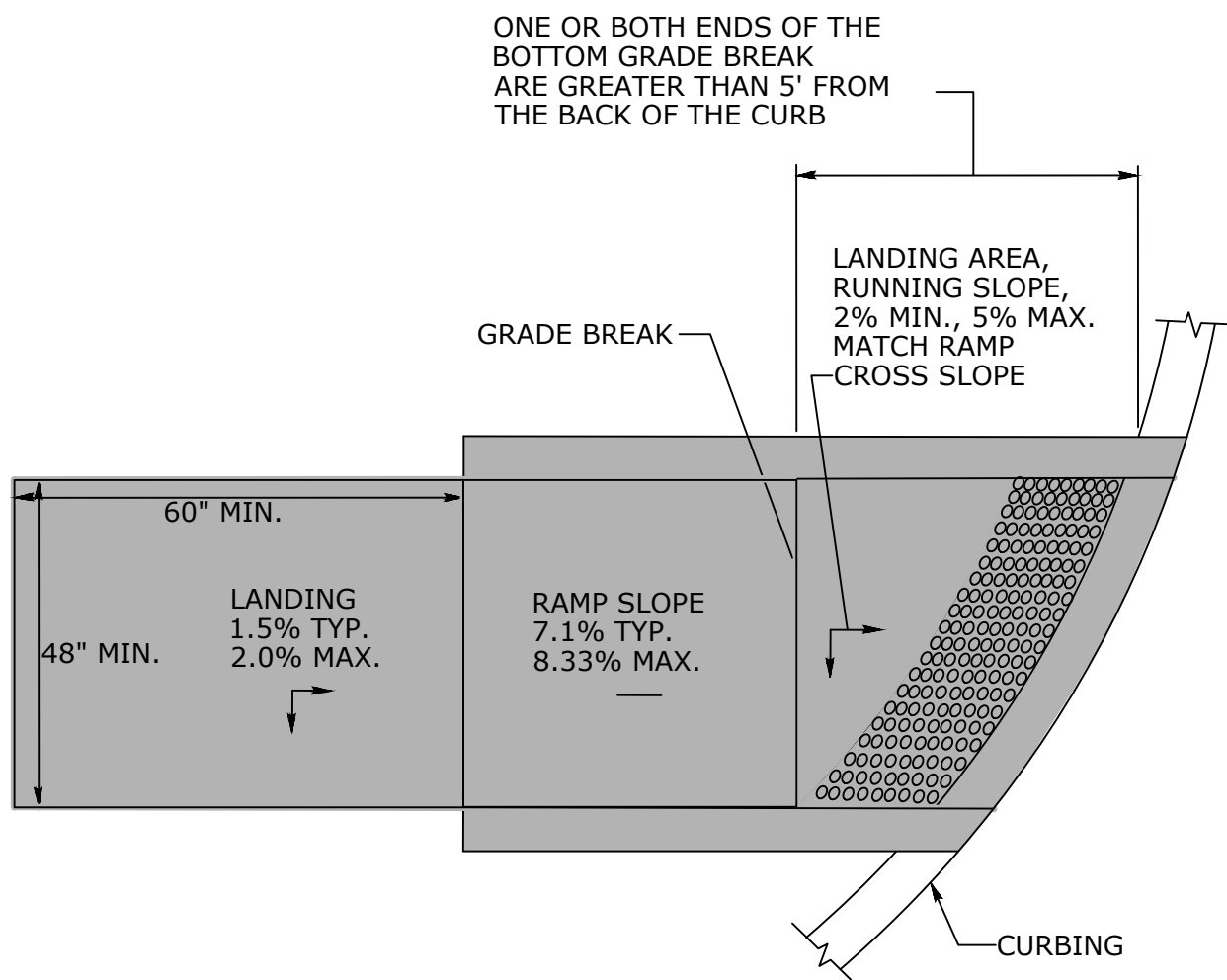
PROJECT NO.
9004-0015

DRAWING NO.
MDS-02

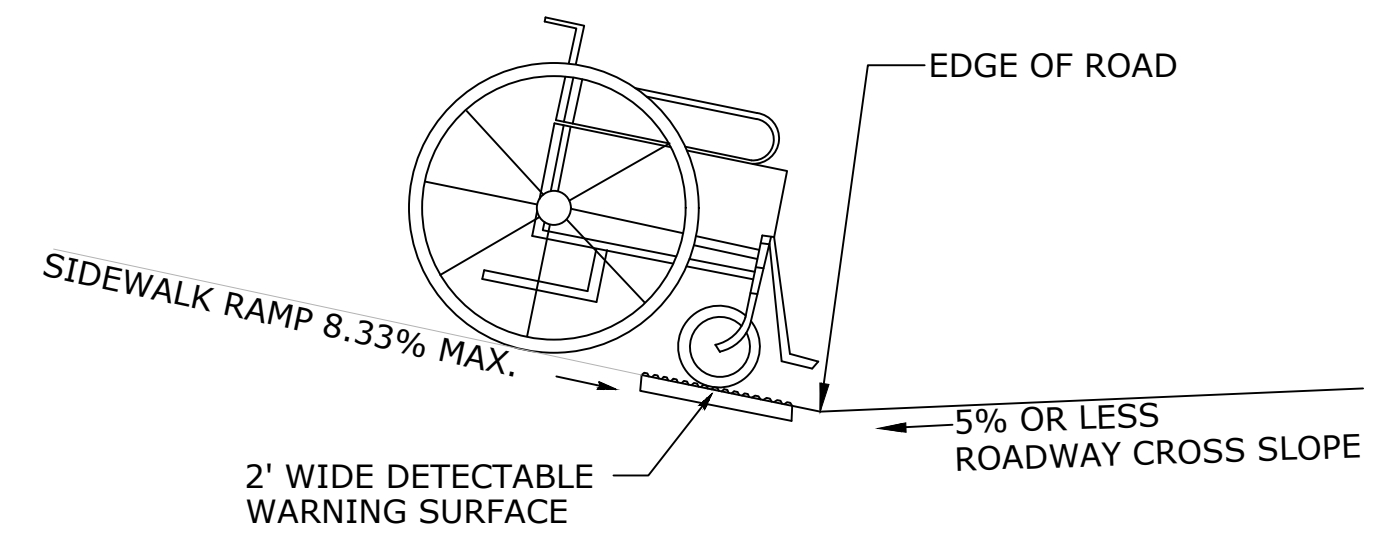
SHEET NO.



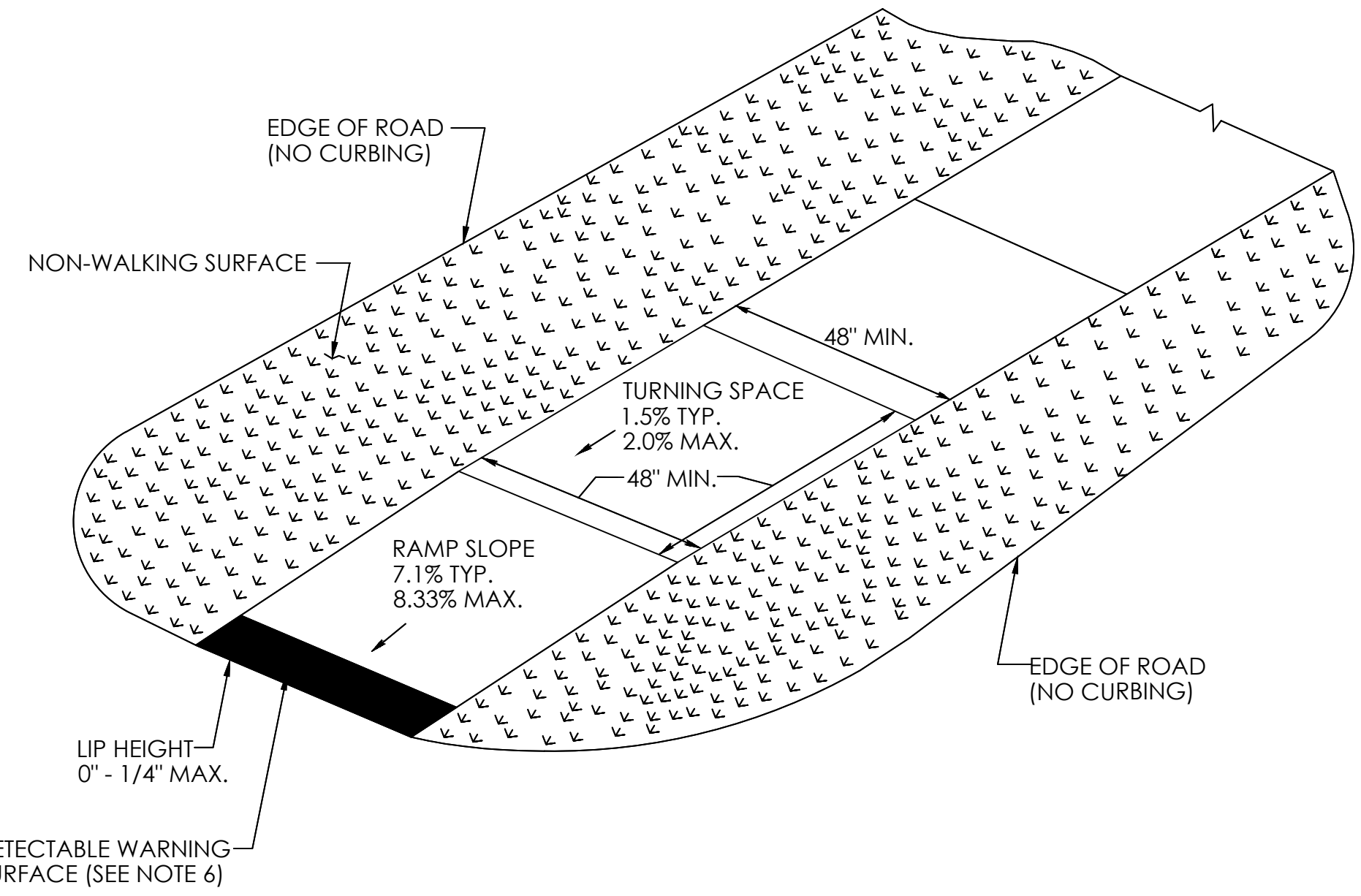
SINGLE DIRECTION RAMP WITHOUT NON-WALKING SURFACE GRADE BREAK GREATER THAN 5' (TYPE 14)



GRADE BREAK GREATER THAN 5' DETECTABLE WARNING SURFACE LOCATION
NOT TO SCALE

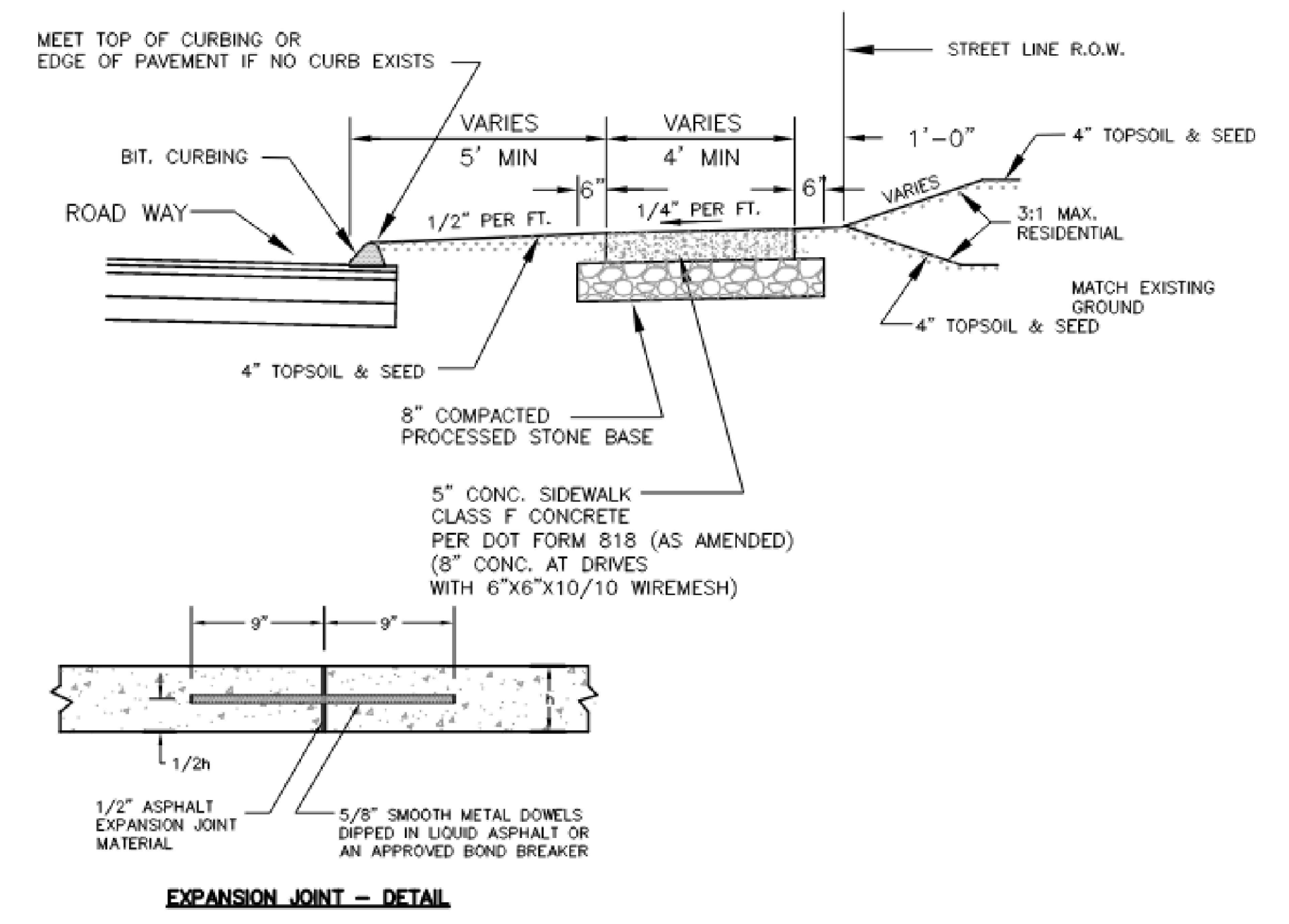
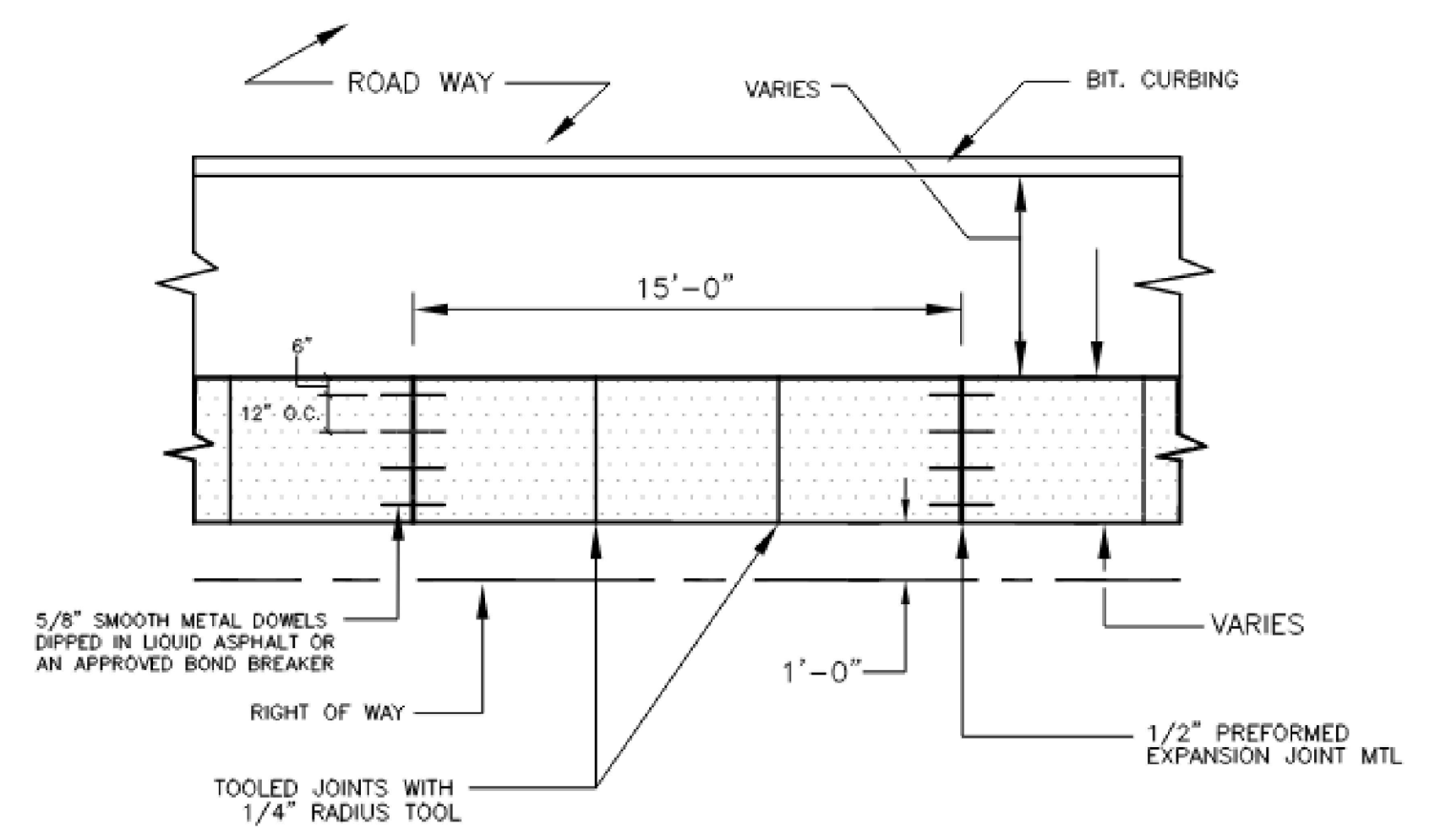


ROADWAY CROSS SLOPE OF 5% OR LESS SIDEWALK RAMP GRADE AT GUTTER COUNTER SLOPE
NOT TO SCALE




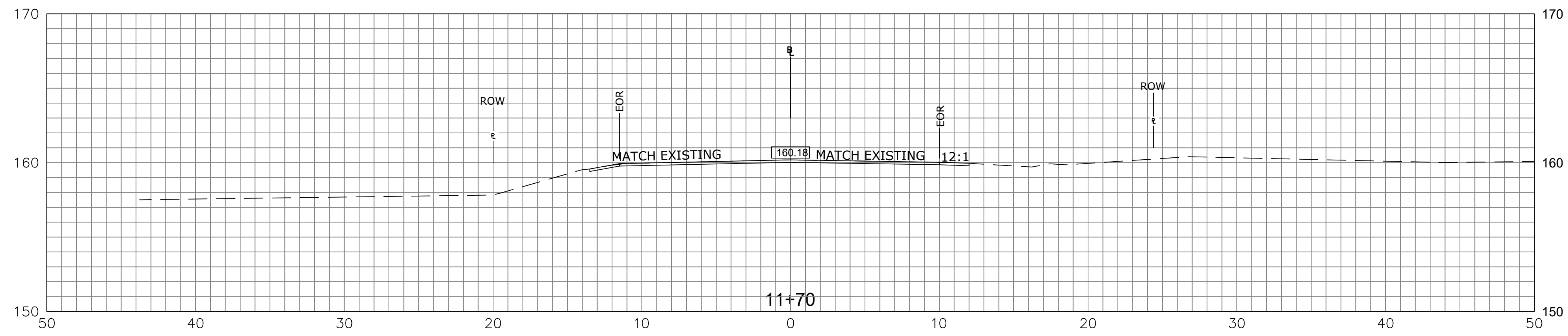
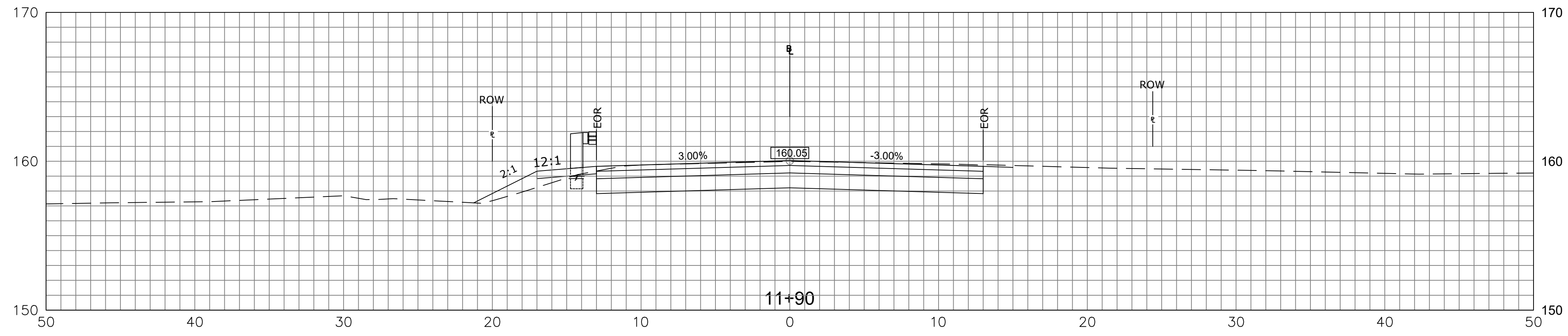
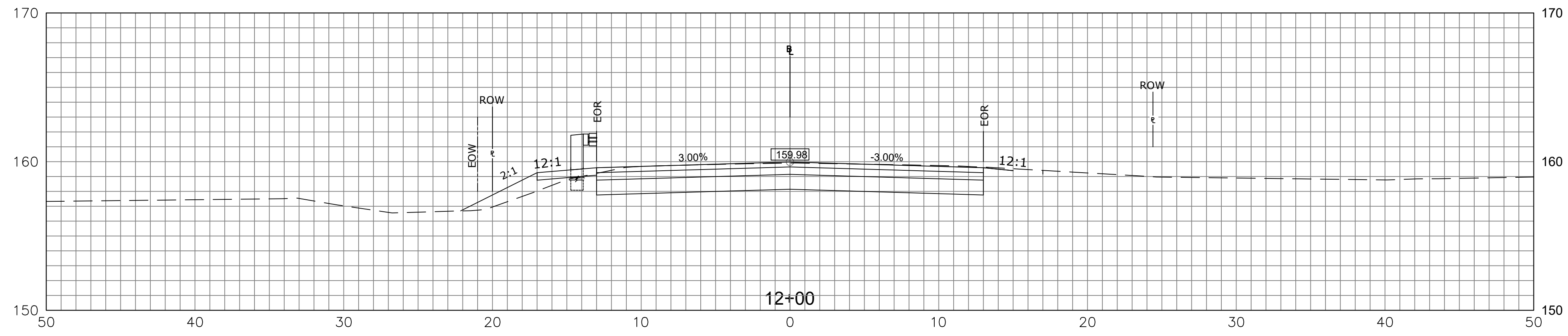
SINGLE DIRECTION PERPENDICULAR RAMP NO CURB WITH NON-WALKING SURFACE (TYPE 17)

- GENERAL NOTES:**
1. SIDEWALK RAMPS SHALL HAVE A COARSE BROOM FINISH TRANSVERSE TO THE SLOPE OF THE RAMP.
 2. VERTICAL SURFACE DISCONTINUITIES AT JOINTS SHALL NOT EXCEED 1/8" INCH.
 3. REMOVAL OF EXISTING SIDEWALK FOR NEW RAMP INSTALLATIONS SHALL BE TO THE NEAREST EXPANSION OR CONTRACTION JOINT.
 4. THE RUNNING SLOPE OF THE CURB RAMP SHALL BE 8.33 PERCENT MAXIMUM BUT SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET.



CONCRETE SIDEWALK DETAIL
NOT TO SCALE

DESIGNER/DRAFTER: BS	TOWN OF AVON	SIGNATURE/ BLOCK:  919 MIDDLE STREET MIDDLETOWN, CT 06457	PROJECT TITLE: REPLACEMENT OF TILLOTSON ROAD BRIDGE OVER THOMPSON BROOK	TOWN: AVON	PROJECT NO. 9004-0015
CHECKED BY: SG					DRAWING NO. MDS-03
SCALE AS NOTED	Plotted Date: 4/30/2026	Filename: MDS-01 MISCELLANEOUS DETAILS.DWG	DRAWING TITLE: MISCELLANEOUS DETAILS-3	SHEET NO.	
REV. DATE REVISION DESCRIPTION SHEET NO.					



REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 4/30/2026

DESIGNER/DRAFTER: BS
 CHECKED BY: SG
 SCALE IN FEET
 0 5 10
 1" = 5'

TOWN OF AVON

Filename: XSC-01 CROSS SECTIONS.DWG

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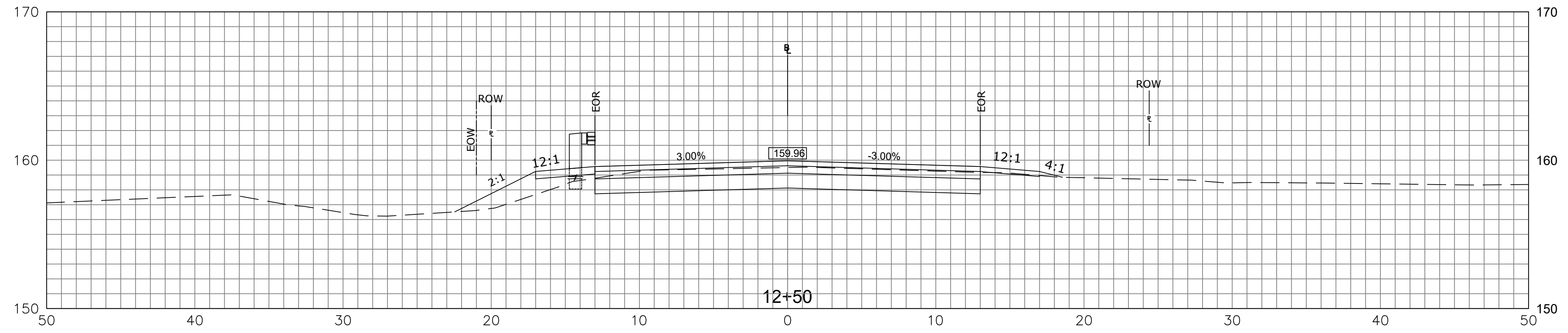
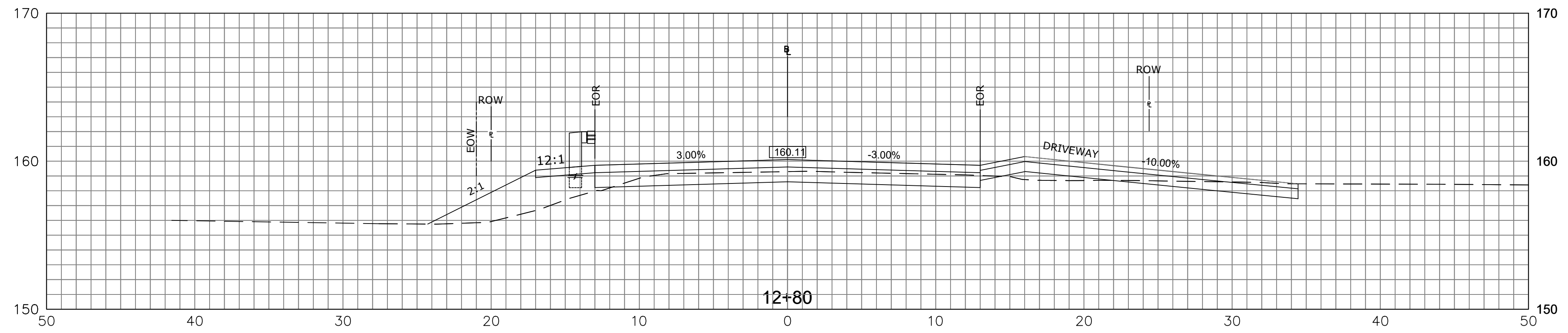
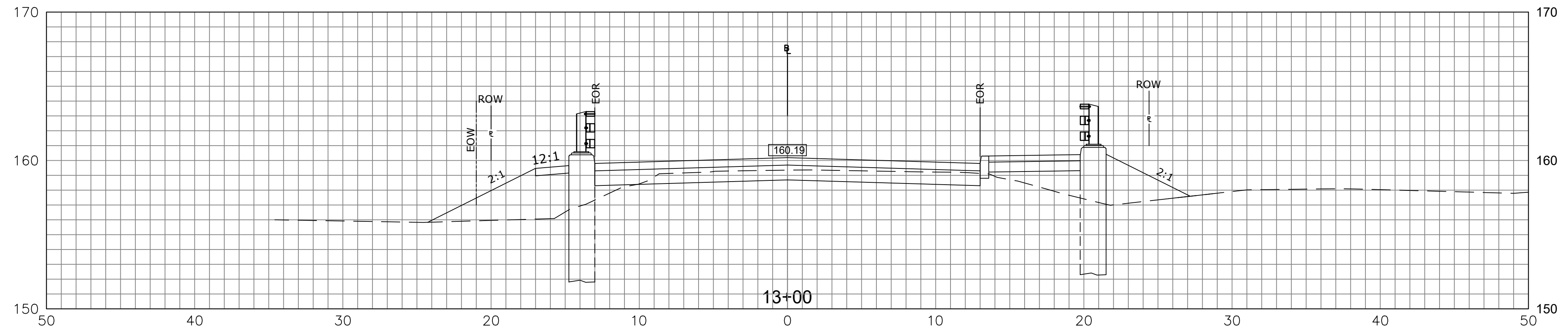
 919 MIDDLE STREET
 MIDDLETOWN, CT 06457

PROJECT TITLE:
**REPLACEMENT OF
 TILLOTSON ROAD BRIDGE
 OVER THOMPSON BROOK**

TOWN: **AVON**

DRAWING TITLE:
CROSS SECTIONS-1

PROJECT NO. **9004-0015**
 DRAWING NO. **XSC-01**
 SHEET NO.



REV.	DATE	REVISION DESCRIPTION	SHEET NO.


THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 4/30/2026

DESIGNER/DRAFTER: BS
 CHECKED BY: SG
 SCALE IN FEET
 0 5 10
 1" = 5'

TOWN OF AVON

Filename: XSC-01 CROSS SECTIONS.DWG

SIGNATURE/BLOCK:

 919 MIDDLE STREET
 MIDDLETOWN, CT 06457

PROJECT TITLE:
**REPLACEMENT OF
 TILLOTSON ROAD BRIDGE
 OVER THOMPSON BROOK**

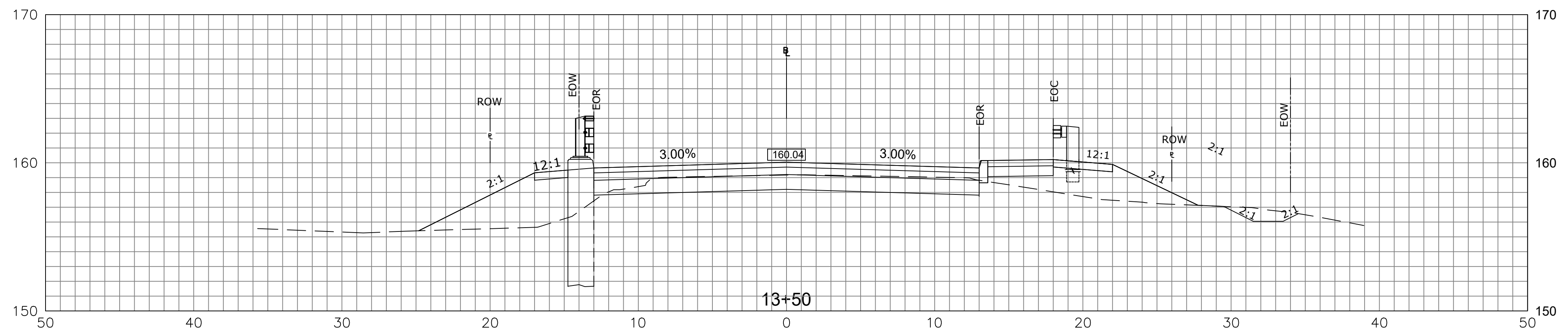
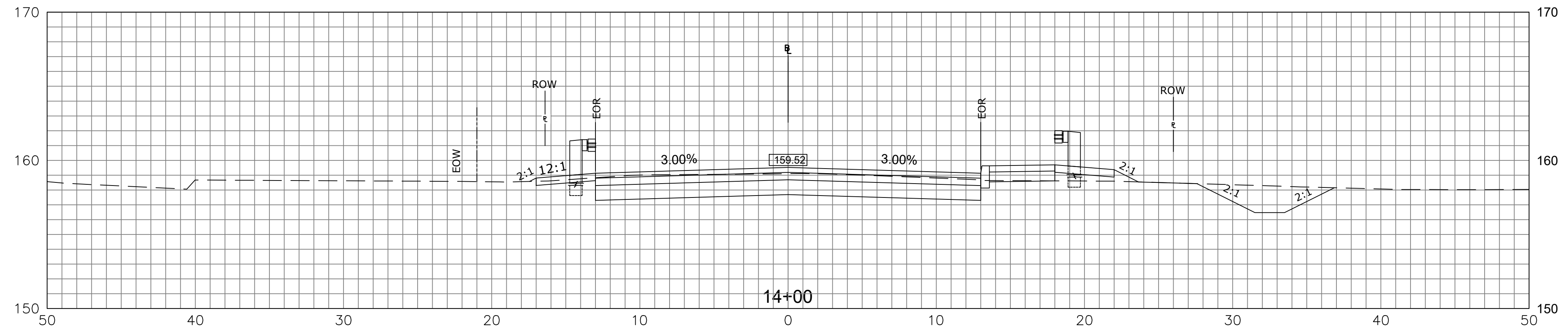
TOWN:
AVON

DRAWING TITLE:
CROSS SECTION -2-1

PROJECT NO.
9004-0015

DRAWING NO.

SHEET NO.



REV.	DATE	REVISION DESCRIPTION	SHEET NO.


THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 4/30/2026

DESIGNER/DRAFTER: BS
 CHECKED BY: SG
 SCALE IN FEET
 0 5 10
 1" = 5'

TOWN OF AVON

Filename: XSC-01 CROSS SECTIONS.DWG

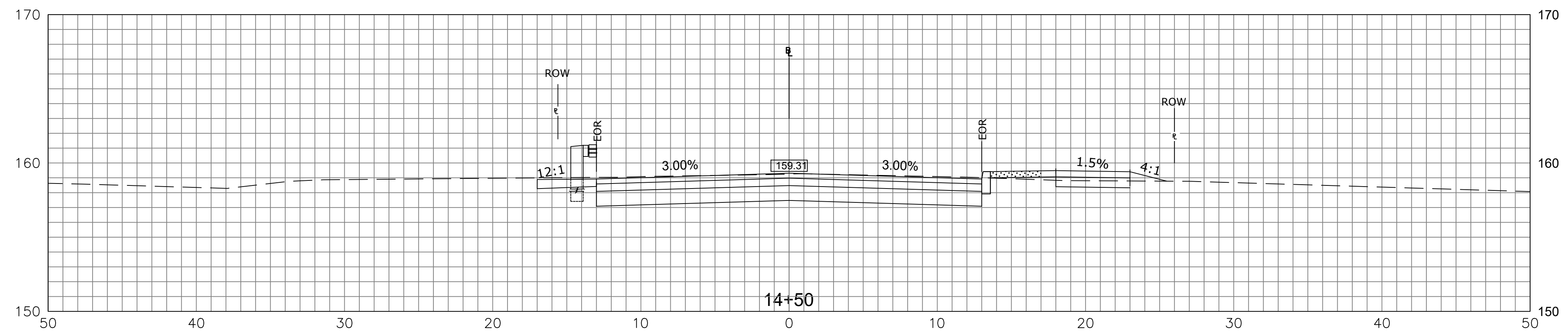
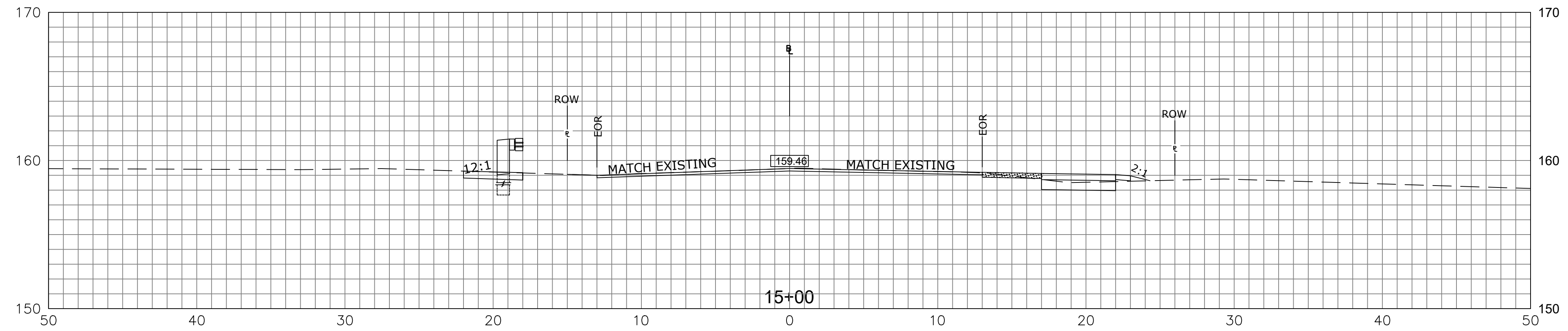
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 919 MIDDLE STREET
 MIDDLETOWN, CT 06457

PROJECT TITLE:
**REPLACEMENT OF
 TILLOTSON ROAD BRIDGE
 OVER THOMPSON BROOK**

TOWN: **AVON**

DRAWING TITLE:
CROSS SECTION-3-1

PROJECT NO. **9004-0015**
 DRAWING NO. **----**
 SHEET NO. **----**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.


THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 4/30/2026

DESIGNER/DRAFTER: BS
 CHECKED BY: SG
 SCALE IN FEET
 0 5 10
 1" = 5'

TOWN OF AVON

Filename: XSC-01 CROSS SECTIONS.DWG

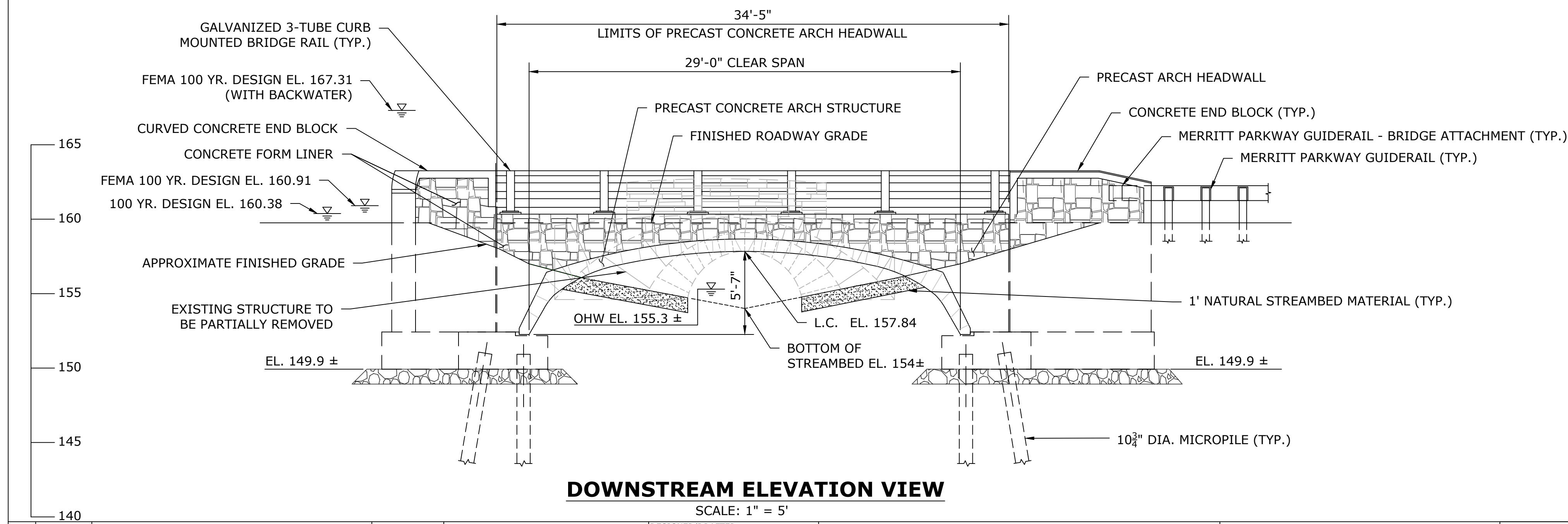
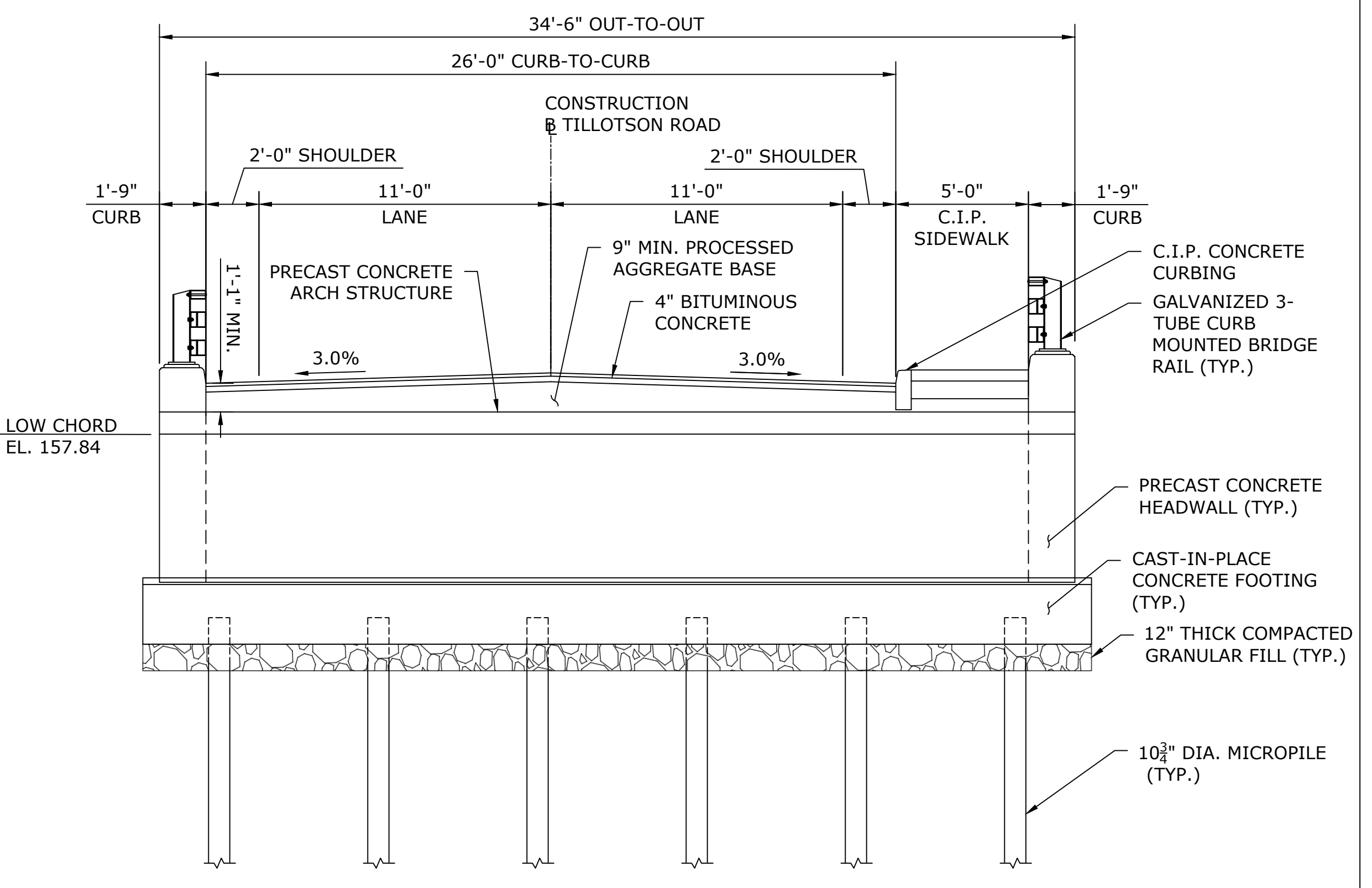
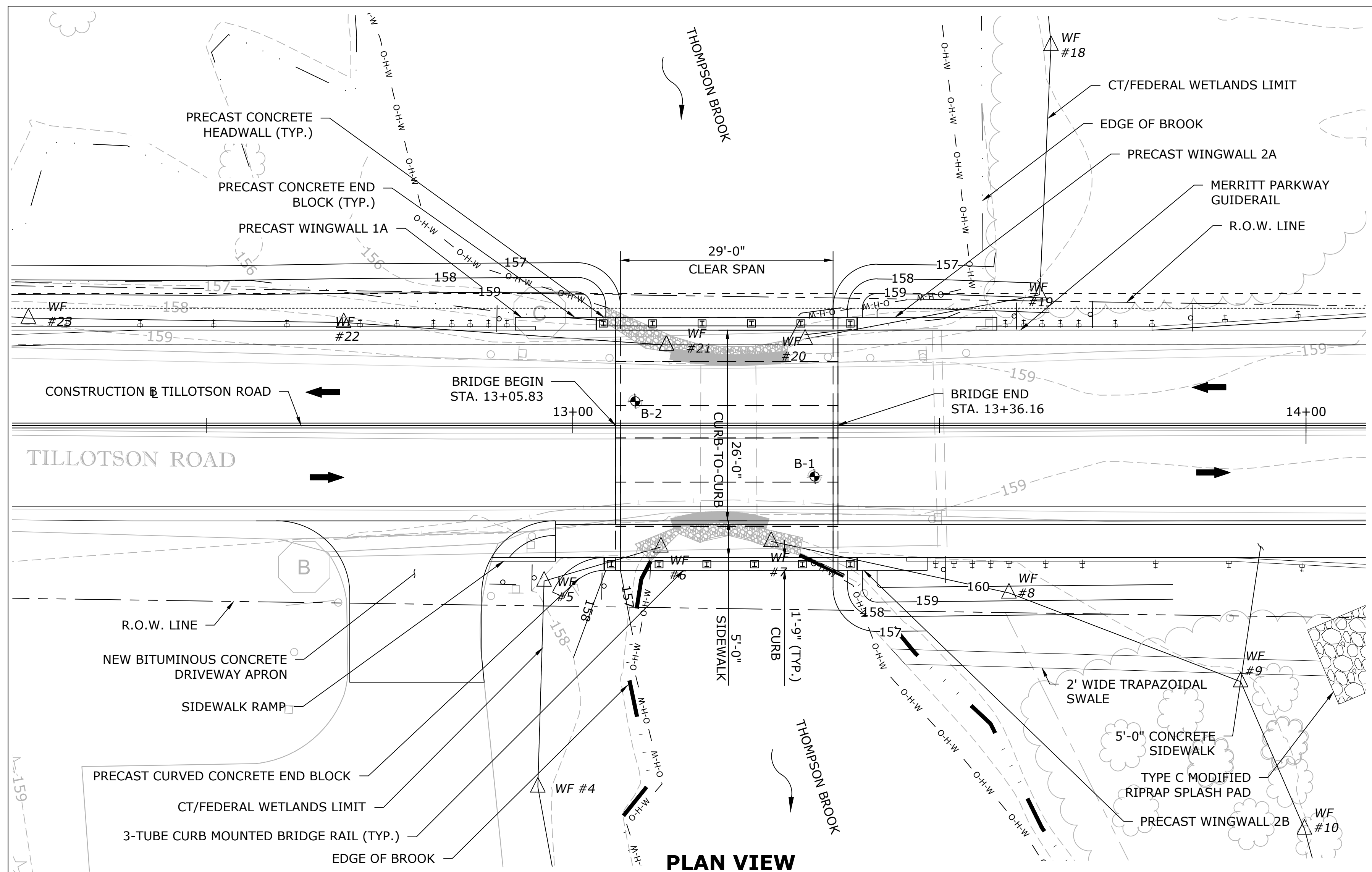
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 919 MIDDLE STREET
 MIDDLETOWN, CT 06457

PROJECT TITLE:
**REPLACEMENT OF
 TILLOTSON ROAD BRIDGE
 OVER THOMPSON BROOK**

TOWN: **AVON**

DRAWING TITLE:
CROSS SECTION -4-1

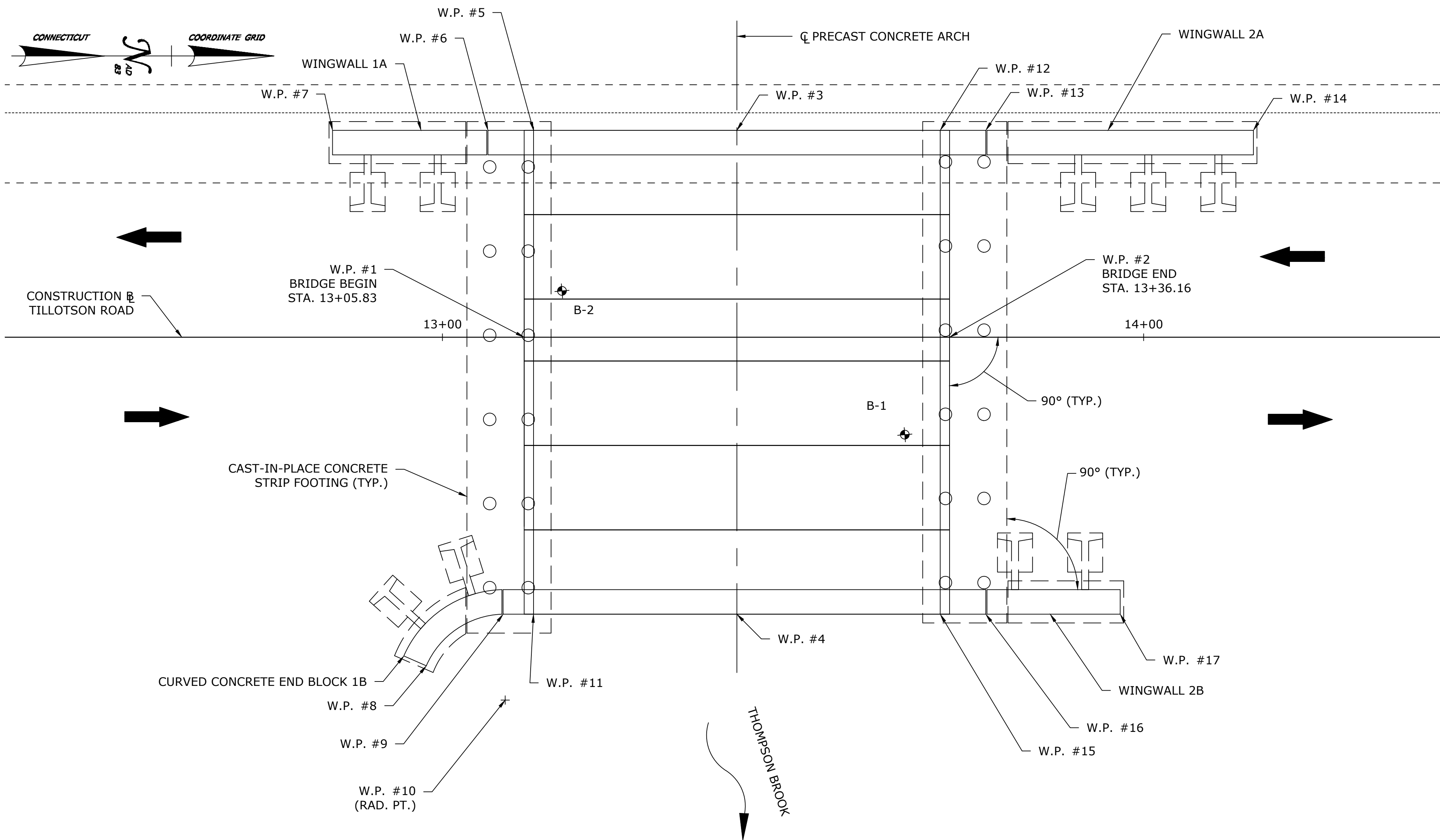
PROJECT NO. **9004-0015**
 DRAWING NO. **----**
 SHEET NO.



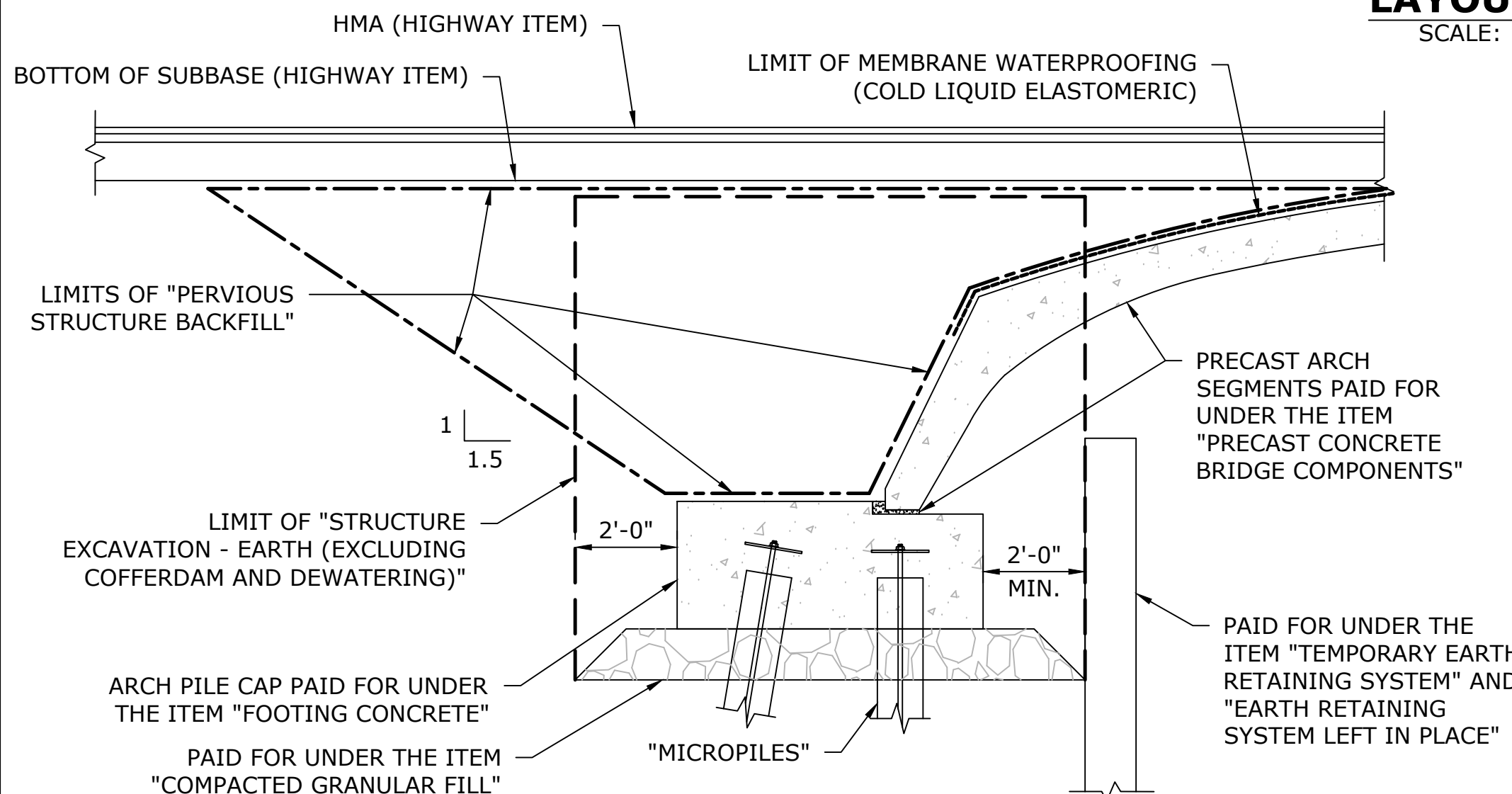
HYDRAULIC DATA SUMMARY	
DRAINAGE AREA (SQ. MILES)	4.32
DESIGN FREQUENCY (YEARS)	100
DESIGN DISCHARGE (CFS)	1080
DESIGN WATER SURFACE ELEVATION - U.S. (FT)	160.38
FEMA DESIGN DISCHARGE (CFS)	840
FEMA DESIGN WATER SURFACE ELEVATION (FT)	160.91
FEMA DESIGN WATER SURFACE ELEVATION - WITH BACKWATER (FT)	167.31
MAXIMUM SCOUR DEPTH (FT)	6.86
FREQUENCY (YEAR)	10
WORST CAST SCOUR SUBSTRUCTURE UNIT	SOUTH ABUTMENT

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	CHECKED BY: MG					DRAWING TITLE: GENERAL PLAN & ELEVATION
SCALE AS NOTED	FILENAME: SB_CP_3572_GENERAL PLAN AND ELEVATION.DWG	SHEET NO.	919 MIDDLE STREET MIDDLETOWN, CT 06457	SHEET NO.	SHEET NO.	SHEET NO.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 4/30/2026



LAYOUT PLAN
SCALE: 1" = 5'



PAY LIMITS
SCALE: NOT TO SCALE

WORKING POINT COORDINATES					
POINT NO.	NORTHING	EASTING	POINT NO.	NORTHING	EASTING
WP-1	841993.03	978458.29	WP-10	841993.90	978484.18
WP-2	842023.25	978455.69	WP-11	841995.38	978477.91
WP-3	842006.88	978442.29	WP-12	842021.33	978441.05
WP-4	842009.83	978476.67	WP-13	842024.57	978440.78
WP-5	841992.43	978443.53	WP-14	842043.58	978439.14
WP-6	841989.20	978443.81	WP-15	842024.28	978475.43
WP-7	841978.15	978444.76	WP-16	842027.51	978475.15
WP-8	841988.08	978482.23	WP-17	842037.06	978474.33
WP-9	841993.22	978478.09			

GENERAL NOTES

SPECIFICATIONS: CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 819 (2025), SUPPLEMENTAL SPECIFICATION DATED JULY 2025 AND SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS (10TH EDITION, 2024) SUPPLEMENTED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE AND ROADWAY STRUCTURES DESIGN MANUAL (2025).

MATERIAL STRENGTHS:

CONCRETE: (PRECAST)
CONCRETE FOR PRECAST COMPONENTS BASED ON $f'_c = 5000$ PSI

CAST-IN-PLACE:
CONCRETE FOOTING BASED ON $f'_c = 4000$ PSI (PCC04462)

REINFORCEMENT:
ASTM A615, GRADE 60 $f_y = 60$ KSI
THE SPECIFIED CONCRETE STRENGTHS USED IN DESIGN, f'_c , OF THE CONCRETE COMPONENTS ARE NOTED ABOVE.

THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE IN THE CONSTRUCTED COMPONENTS SHALL CONFORM TO THE REQUIREMENTS OF "SECTION 6.01 - CONCRETE FOR STRUCTURES", AND "M.03 - PORTLAND CEMENT CONCRETE"

LIVE LOAD: HL-93, LEGAL AND PERMIT VEHICLES AS PER CTDOT LOAD RATING MANUAL REVISED MARCH 29, 2018

FUTURE PAVING ALLOWANCE: NONE

BITUMINOUS CONCRETE OVERLAY: OVERLAY OVER THE STRUCTURE SHALL BE 1.5" OF HMA S0.375 TRAFFIC LEVEL 2 OVER 2.5" OF HMA S1.0 TRAFFIC LEVEL 2.

CONCRETE FOR PRECAST COMPONENTS: CONCRETE FOR PRECAST COMPONENTS SHALL BE USED FOR PRECAST CONCRETE ARCH, PRECAST CONCRETE HEADWALLS, AND PRECAST CONCRETE WINGWALL STEMS AND FOOTINGS. CONCRETE SHALL BE INCLUDED FOR PAYMENT UNDER THE ITEM "PRECAST CONCRETE BRIDGE COMPONENTS".

PRECAST CONCRETE ARCH: THE CONTRACTOR SHALL DESIGN, FABRICATE AND INSTALL THE PRECAST CONCRETE ARCH UNITS IN ACCORDANCE WITH THE SPECIAL PROVISION "PRECAST CONCRETE BRIDGE COMPONENTS" TO THE DIMENSIONS AND DETAILS SHOWN ON THE PLANS.

PRECAST CONCRETE WINGWALLS: THE CONTRACTOR SHALL DESIGN, FABRICATE AND INSTALL THE PRECAST CONCRETE WINGWALLS (WITH END BLOCKS) AND FOOTINGS IN ACCORDANCE WITH THE SPECIAL PROVISION "PRECAST CONCRETE BRIDGE COMPONENTS" TO THE DIMENSIONS AND DETAILS SHOWN ON THE PLANS.

PRECAST CONCRETE HEADWALLS: THE CONTRACTOR SHALL DESIGN, FABRICATE AND INSTALL THE PRECAST CONCRETE HEADWALLS (WITH CURBS) IN ACCORDANCE WITH THE SPECIAL PROVISION "PRECAST CONCRETE BRIDGE COMPONENTS" TO THE DIMENSIONS AND DETAILS SHOWN ON THE PLANS.

DIMENSIONS AND ELEVATIONS: ALL DIMENSIONS SHOWN ON THE PLANS ARE IN FEET AND INCHES EXCEPT IF NOTED OTHERWISE. WHEN ELEVATIONS ARE GIVEN TO LESS THAN THREE DECIMAL PLACES, THE OMITTED DIGITS ARE ASSUMED TO BE ZEROS.

TRAFFIC: ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIAL PROVISIONS "MAINTENANCE AND PROTECTION OF TRAFFIC" AND "PROSECUTION AND PROGRESS"

UTILITY RELOCATION: THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE RESPECTIVE UTILITY COMPANIES IN ADVANCE OF THE RECONSTRUCTION OF BRIDGE NO. 004015. UTILITY COMPANY LIST & CONTACT INFORMATION IS INCLUDED IN THE CONTRACT DOCUMENTS.

BRIDGE IDENTIFICATION PLACARDS: THE CONTRACTOR SHALL PROVIDE AND INSTALL NEW BRIDGE IDENTIFICATION SIGNS AT THE LEADING EDGE OF THE BRIDGE PARAPET. THE SIGNS SHALL BE 4" X 12" WITH 3" WHITE REFLECTIVE BLOCK LETTERS ON GREEN RETROREFLECTIVE SHEETING. EACH SIGN SHALL READ 004015. ALL COSTS ASSOCIATED WITH PROVIDING AND INSTALLING THE BRIDGE SIGNS SHALL BE COVERED UNDER THE ITEM "SIGN FACE - SHEET ALUMINUM (TYPE IX RETROREFLECTIVE SHEETING)". THE FINAL LOCATION AND ATTACHMENT METHOD FOR THE SIGNS SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.

CONTRACTOR SHALL NOT ASSUME GRADES OR FIELD-FIT CONNECTIONS. ALL TIE-INS SHALL BE VERIFIED IN THE FIELD AND APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.

CONCRETE NOTES

EXPOSED CONCRETE EDGES: EXPOSED EDGES OF CONCRETE SHALL BE BEVELED 1" X 1" UNLESS DIMENSIONED OTHERWISE

CONCRETE COVER: ALL REINFORCEMENT SHALL HAVE 2" MINIMUM COVER UNLESS DIMENSIONED OTHERWISE.

REINFORCEMENT: ALL STEEL REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60 AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A676, CLASS 1 UNLESS NOTED OTHERWISE.

JOINT SEAL: SHALL BE INCLUDED FOR PAYMENT UNDER THE ITEM "PRECAST CONCRETE BRIDGE COMPONENTS".

PENETRATING SEALER: PENETRATING SEALER PROTECTIVE COMPOUND SHALL BE APPLIED TO ALL EXPOSED SURFACES, SEE SPECIAL PROVISIONS.

THE CAST-IN-PLACE FOOTING CONCRETE SHALL REACH A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI BEFORE PRECAST ARCH UNITS, HEADWALL, AND WINGWALLS ARE INSTALLED. FOOTING CONCRETE MUST REACH ITS FULL DESIGN STRENGTH BEFORE BACKFILLING OF ARCH UNITS MAY COMMENCE.

CONCRETE FORM LINER: SHALL BE INCLUDED FOR PAYMENT UNDER THE ITEM "PRECAST CONCRETE BRIDGE COMPONENTS".

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REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 4/30/2026	Filename: SB_CP_3572_LAYOUT PLAN.DWG	

Driller: M. St. John	Connecticut DOT Boring Report		Hole No.: B-1
Inspector: M. Fekieta	Town: Avon, CT	Sta./Offset:	
Engineer: D. LaMessa	Project No.:	Northing:	
Start Date: 2/7/2023	Route No.: Tillotson Road Over Thompson Brook	Easting:	
Finish Date: 2/7/2023	Bridge No.: 04015	Surface Elevation: 159.5±	
Project Description: Tillotson Road Over Thompson Brook Replacement Bridge			
Casing Size/Type: 4" ID FJ (HW)		Sampler Type/Size: 1 3/8" ID SS	Core Barrel Type: N/A
Hammer Wt. 300	Fall: 30in.	Hammer Wt. 140	Fall: 30in.
Groundwater Observations: 2.5 feet			

Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches				Pen. (in.)	Rec. (in.)	ROD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
								PAVEMENT	8" Asphalt		
	S-1	21	11	10	16	24	14	MISC. FILL	Medium dense, red-brown, C-F SAND, little M-F Gravel, little Silt		
5	S-2	11	8	9	4	24	12		5'	Medium dense, red-brown, C-F SAND, little C-F Gravel, trace Silt	
	S-3	2	4	8	8	24	16	SAND	Medium dense: TOP 5": dark gray, F SAND and SILT, BOTTOM 9": gray, C-F SAND, some m-f Gravel, trace Silt		
10	S-4	5	6	5	6	24	0		Medium dense, No Recovery		
	S-5	3	2	12	14	24	12	SAND	Medium dense, gray, C-F SAND, little m-f Gravel, little Silt		
15	S-6	13	17	10	11	24	9		Medium dense, gray/red-brown, C-F SAND and M-F GRAVEL, trace Silt		
	S-7	4	6	6	5	24	15	SAND	Medium dense, red-brown, C-F SAND, little m-f Gravel, trace Silt		
20	S-8	11	10	11	15	24	16		Medium dense, red-brown, C-F SAND, little Silt		
	S-9	8	9	20	35	24	16	SAND	Medium dense, gray/red-brown, C-F SAND, trace f Gravel, trace Silt		
30	S-10	6	7	11	19	24	20		35'	Medium dense, red-brown, F SAND and SILT	
	S-11	12	16	18	20	24	17	40'	Dense, red-brown, M-F SAND, trace f Gravel, trace Silt		
45								SAND			

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test			
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%			
Total Penetration in Earth: 67 ft	Rock: 0	NOTES: 1) Augers advanced to 5 feet below grade (fbg) prior to changing to casing down to 60 feet. 2) Stratification lines represent approx. boundaries	
No. of Soil Samples: 16	No. of Core Runs: 0	between soil types, transitions may be gradual.	
		Sheet 1 of 2	

Driller: M. St. John	Connecticut DOT Boring Report		Hole No.: B-1
Inspector: M. Fekieta	Town: Avon, CT	Sta./Offset: Not Available	
Engineer: D. LaMessa	Project No.:	Northing:	
Start Date: 2/7/2023	Route No.: Tillotson Road Over Thompson Brook	Easting:	
Finish Date: 2/7/2023	Bridge No.: 04015	Surface Elevation: 159.5±	
Project Description: Tillotson Road Over Thompson Brook Replacement Bridge			
Casing Size/Type: 4" ID FJ (HW)		Sampler Type/Size: 1 3/8" ID SS	Core Barrel Type: N/A
Hammer Wt. 300	Fall: 30in.	Hammer Wt. 140	Fall: 30in.
Groundwater Observations: 2.5 feet			

Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches				Pen. (in.)	Rec. (in.)	ROD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
	S-12	5	6	8	11	24	20	41'	SAND	Medium dense: TOP 9": gray/red-brown, C-F SAND, trace Silt BOTTOM 11": red-brown, SILT, some F Sand	
50	S-13	11	11	19	23	24	17	SAND AND SILT	Medium dense, red-brown, SILT and F SAND		
55	S-14	16	25	32	38	24	18		Very dense, red-brown, F SAND and SILT		
	S-15	12	16	25	39	24	16	SAND	Dense, red-brown, F SAND and SILT		
60	S-16	9	9	11	14	24	16		67'	Medium dense, red-brown, F SAND, some Silt	
70									END OF BORING AT 67ft		
80											
85											
90											

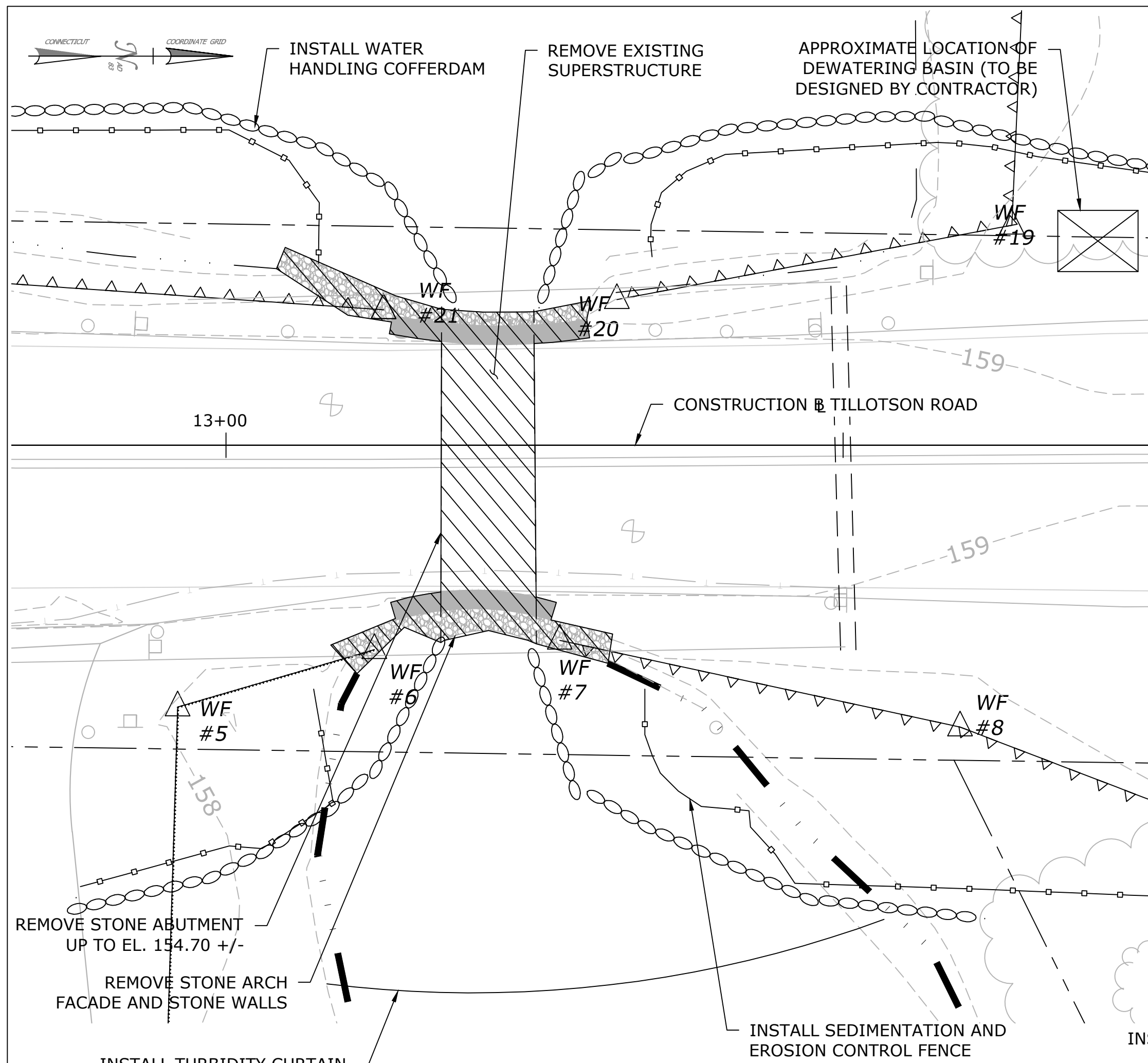
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test			
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%			
Total Penetration in Earth: 67 ft	Rock: 0	NOTES: 1) Augers advanced to 5 feet below grade (fbg) prior to changing to casing down to 60 feet. 2) Stratification lines represent approx. boundaries	
No. of Soil Samples: 16	No. of Core Runs: 0	between soil types, transitions may be gradual.	
		Sheet 2 of 2	

Driller: M. St. John	Connecticut DOT Boring Report		Hole No.: B-2
Inspector: M. Fekieta	Town: Avon, CT	Sta./Offset:	
Engineer: D. LaMessa	Project No.:	Northing:	
Start Date: 2/6/2023	Route No.: Tillotson Road Over Thompson Brook	Easting:	
Finish Date: 2/6/2023	Bridge No.: 04015	Surface Elevation: 159.5±	
Project Description: Tillotson Road Over Thompson Brook Replacement Bridge			
Casing Size/Type: 4" ID FJ (HW)		Sampler Type/Size: 1 3/8" ID SS	Core Barrel Type: N/A
Hammer Wt. 300	Fall: 30in.	Hammer Wt. 140	Fall: 30in.
Groundwater Observations: 2.5 feet			

Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches				Pen. (in.)	Rec. (in.)	ROD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
	S-1	50/5"				5	2	PAVEMENT	8" Asphalt		
	S-2	16	28	12	19	24	10	MISC. FILL	Very dense, gray, C-F SAND, little c-f Gravel, trace Asphalt		
5	S-3	6	6	6	9	24	10		5'	Dense, red-brown, C-F SAND, little m-f Gravel, little Silt	
	S-4	13	10	10	15	24	9	SAND	Medium dense, gray, C-F SAND, some m-f Gravel, some Silt		
10	S-5	4	4	4	4	24	12		Medium dense, gray, C-F SAND, some m-f Gravel, little Silt		
	S-6	6	10	13	9	24	11	SAND	Loose, gray/brown, C-F SAND, some m-f Gravel, trace Silt		
15	S-7	18	16	12	24	24	8		Medium dense, gray/red-brown, C-F SAND, little m-f Gravel, trace Silt		
	S-8	9	12	22	26	24	12	SAND	Dense, red-brown, C-F SAND, little m-f Gravel, little Silt		
20	S-9	10	9	8	7	24	16		30'	Medium dense, red-brown, TOP 12": SILT, some m-f Sand BOTTOM 4": C-F SAND, trace f Gravel, trace Silt	
	S-10	7	7	7	10	24	17	SAND AND SILT	Medium dense, red-brown, SILT and f Sand		
25	S-11	6	5	9	11	24	17		42'	Medium dense, red-brown, SILT and f Sand	
30									END OF BORING AT 42ft		
35											
40											
45											

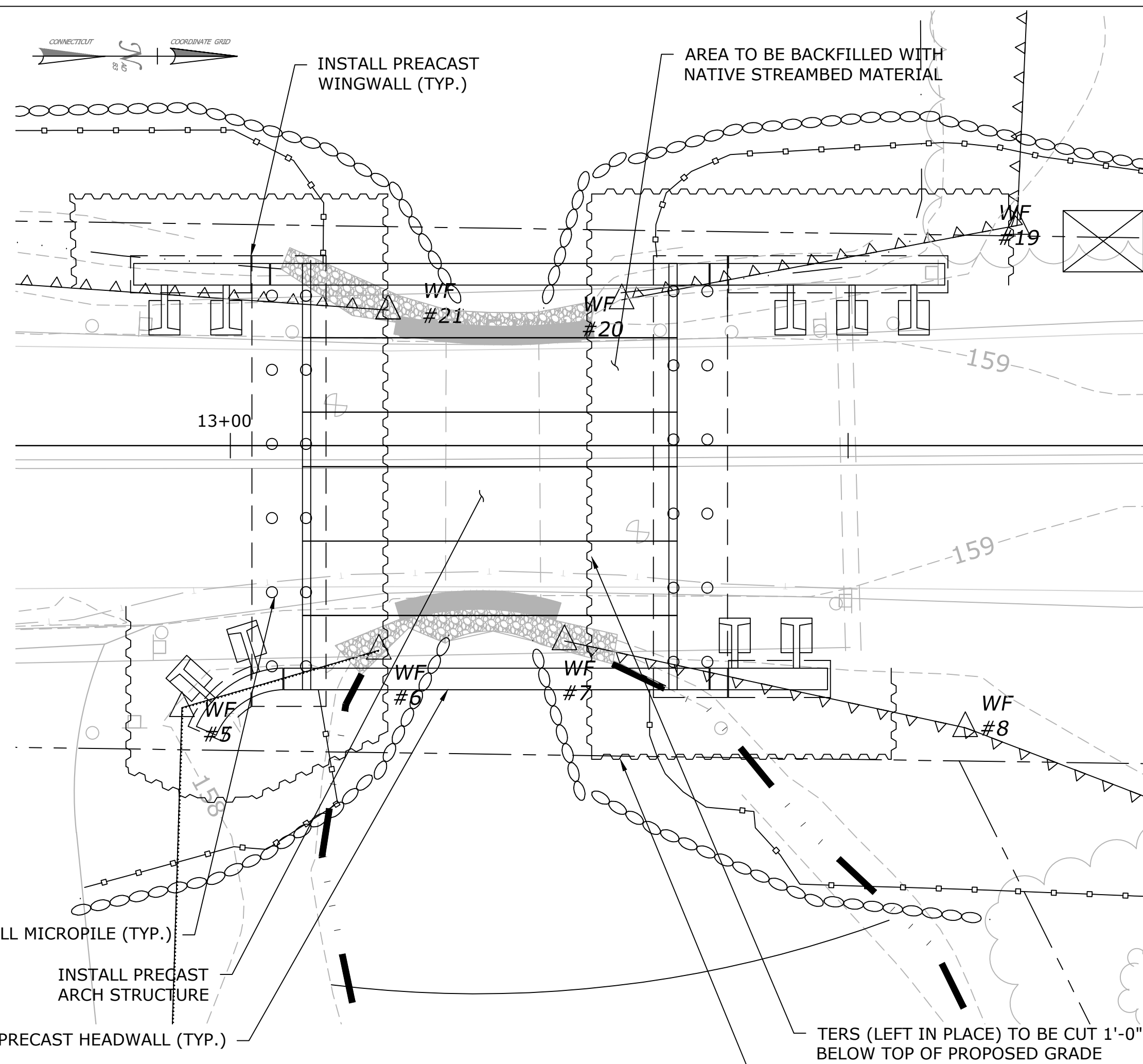
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test			
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%			
Total Penetration in Earth: 42 ft	Rock: 0	NOTES: 1) Augers advanced to 5 feet below grade (fbg) prior to changing to casing down to 38 feet. 2) Stratification lines represent approx. boundaries	
No. of Soil Samples: 11	No. of Core Runs: 0	between soil types, transitions may be gradual.	
		Sheet 1 of 1	

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 4/30/2026	DESIGNER/DRAFTER: EP	CHECKED BY: MG	SCALE AS NOTED	TOWN OF AVON	Signature/Block: AI Engineers 919 MIDDLE STREET MIDDLETOWN, CT 06457	PROJECT TITLE: REPLACEMENT OF TILLOTSON ROAD BRIDGE OVER THOMPSON BROOK	TOWN: AVON	DRAWING TITLE: BORING LOGS	PROJECT NO. 9004-0015 DRAWING NO. S-04 SHEET NO.
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STAGE 1 DEMOLITION

SCALE: 1/8" = 1'-0"



STAGE 2 CONSTRUCTION

SCALE: 1/8" = 1'-0"

LEGEND

	EDGE OF RIVER		TEMPORARY EARTH RETAINING SYSTEM
	SEDIMENTATION CONTROL SYSTEM		WATER-HANDLING-COFFERDAMS
	CT/FEDERAL WETLANDS		R.O.W. LINE
	OHW—OHW		ORDINARY HIGH WATER

SUGGESTED CONSTRUCTION SEQUENCE STAGE PRE-STAGE:

- THREE WEEKS PRIOR TO START OF CONSTRUCTION, BIOLOGIST TO PERFORM MUSSEL RELOCATION.

SUGGESTED CONSTRUCTION SEQUENCE STAGE 1:

- MOBILIZE AND INSTALL CONSTRUCTION SIGNS.
- INSTALL SEDIMENTATION AND EROSION CONTROL MEASURES.
- PERFORM CLEARING AND GRUBBING OF ROADWAY AND EXISTING BRIDGE AREA.
- CLOSE ROAD AND DETOUR TRAFFIC. THE CONTRACTOR SHALL INSTALL TEMPORARY PRECAST CONCRETE BARRIER ACROSS ROADWAY TO PREVENT PEDESTRIAN ACCESS TO CONSTRUCTION AREA.
- INSTALL TURBIDITY CURTAINS AND WATER HANDLING COFFERDAM AND DEWATER.
- REMOVE STONE ARCH FACADE AND STONE WALLS.
- INSTALL DEBRIS SHIELD.
- REMOVE EXISTING SUPERSTRUCTURE.
- REMOVE EXISTING STONE ABUTMENTS UP TO EL. 154.70.

SUGGESTED CONSTRUCTION SEQUENCE STAGE 2:

- PERFORM CLEARING AND GRUBBING OF EMBANKMENTS.
- INSTALL TERS.
- INSTALL TEST MICROPILE AND PERFORM VERIFICATION TEST ON MICROPILES.
- INSTALL MICROPILES.
- EXCAVATE AND INSTALL PROPOSED CAST-IN-PLACE CONCRETE FOOTINGS.
- CUT THE TERS 1'-0" BELOW THE TOP OF PROPOSED GRADE IN THE AREA BELOW THE PROPOSED ARCH, TO BE LEFT IN PLACE.
- INSTALL PRECAST CONCRETE ARCH STRUCTURE, PRECAST HEADWALLS AND WINGWALLS.
- BACKFILL AREA IN FRONT OF ARCH WITH NATIVE STREAMBED MATERIAL.
- BACKFILL AREA BEHIND ARCH WITH PERVIOUS STRUCTURE BACKFILL.
- REMOVE TERS UPSTREAM AND DOWNSTREAM OUTSIDE OF ARCH AREA.

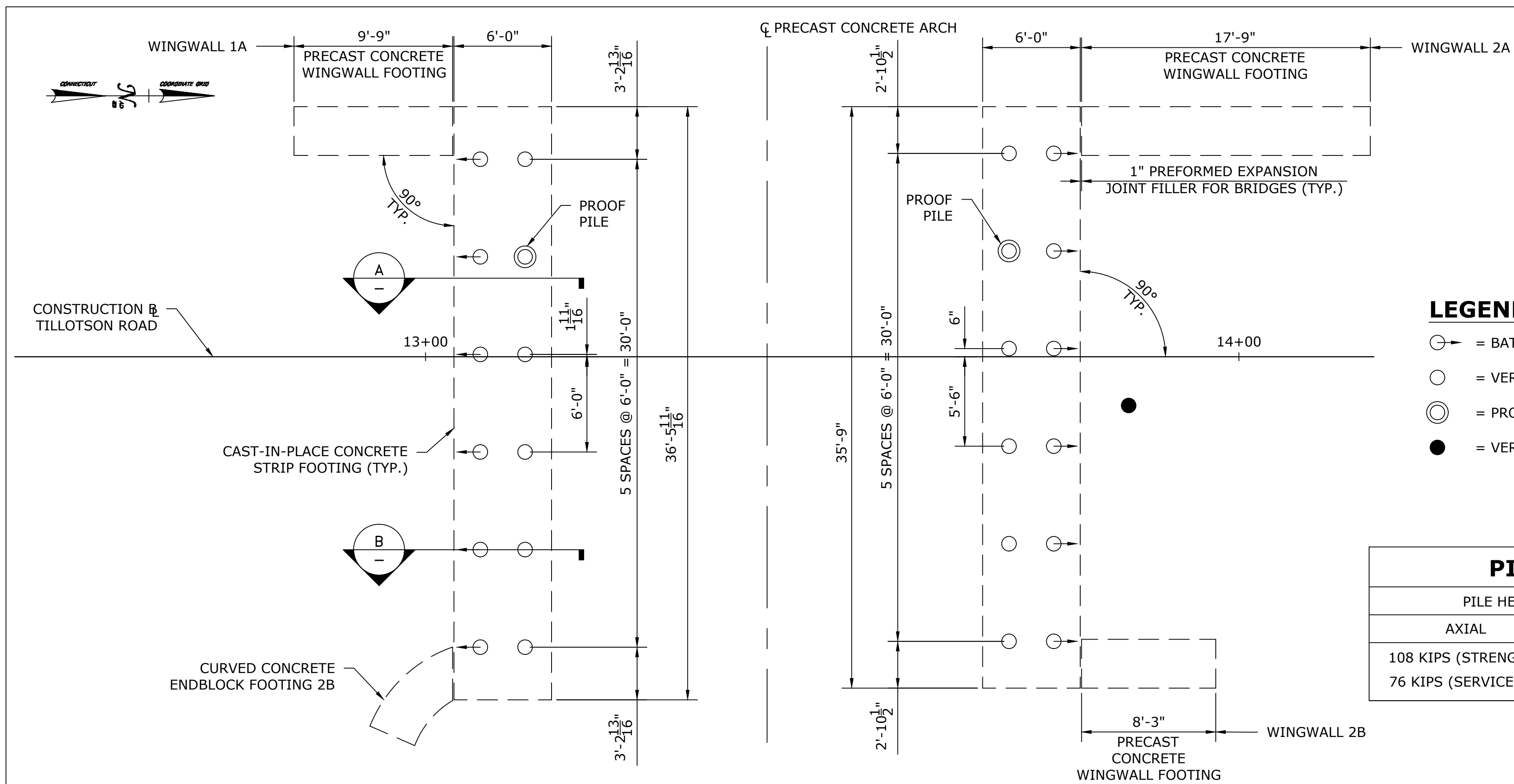
NATIVE STREAMBED MATERIAL NOTES:

- NATIVE STREAMBED MATERIAL EXCAVATED DURING THE PRECAST CONCRETE ARCH INSTALLATION SHALL BE STOCKPILED AND THEN REPLACED WITHIN THE STREAMBED TO THE DEPTH SHOWN ON THE PLANS, AS DIRECTED BY THE ENGINEER AND IN ACCORDANCE WITH THE PERMIT PLANS.
- STOCKPILED SOILS SHALL BE LOCATED OUTSIDE THE WETLAND LIMITS, AT LEAST 10 FEET FROM THE WATERCOURSE, WITHIN THE R.O.W./CONSTRUCTION EASEMENTS AND PROTECTED WITH SEDIMENTATION CONTROL SYSTEM.
- THE COST OF REPLACING THE STREAMBED MATERIAL WITHIN THE PRECAST ARCH STRUCTURE SHALL BE INCLUDED IN THE COST OF THE ITEM "EXCAVATION AND REUSE OF EXISTING CHANNEL BOTTOM MATERIAL".

CONSTRUCTION SEQUENCE GENERAL NOTES:

- THE CONTRACTOR SHALL MAINTAIN FLOW BETWEEN THE TEMPORARY WATER HANDLING COFFERDAMS AS SHOWN DURING CONSTRUCTION OF THE NEW STRUCTURE.
- SILT FENCE INSTALLATION TO BE COMPLETED BEFORE APRIL 15TH. STAGE 1 CLEARING AND GRUBBING ONLY TO BE PERFORMED ON APPROACH ROADWAY AND EXISTING BRIDGE AREA. CLEARING AND GRUBBING OF ADJACENT LAND TO BE KEPT TO A MINIMUM. EMBANKMENTS, SIDE SLOPES AND GRASSLAND HABITATS TO BE KEPT AS IS TO AVOID DISTURBANCE FROM CONSTRUCTION BETWEEN APRIL 1ST - AUGUST 30TH TO PROTECT HABITATS OF GRASSLAND BIRDS.
- SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT. AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED AND RESTORED WITH NATIVE VEGETATION AS FOUND IN THE VICINITY, ALL SEDIMENT AND EROSION CONTROLS SHALL BE REMOVED.
- STRAW BALES SHALL NOT BE PERMITTED AS A FORM OF EROSION CONTROL. BIODEGRADABLE MATERIALS SHALL BE USED SUCH AS BURLAP, JUTE NETTING, OR BLANKETS MADE FROM COCONUT FIBER TO HOLD VEGETATIVE PLANTINGS IN CONJUNCTION WITH SLOPE STABILIZATION AND OTHER EROSION AND SEDIMENTATION CONTROL MEASURES. THE USE OF PLASTIC OR SYNTHETIC MESH NETTING IS ALSO PROHIBITED.
- BEST MANAGEMENT PRACTICES AVAILABLE SHALL BE USED TO CONTROL STORMWATER RUNOFF FROM THIS SITE BOTH DURING CONSTRUCTION AND AFTER CONSTRUCTION: QUALIFIED ENVIRONMENTAL INSPECTOR(S) SHALL BE ON-SITE WITHIN 24 HOURS OF STORM EVENTS WITH 0.5 INCHES OF PRECIPITATION OR MORE TO INSPECT SEDIMENTATION AND EROSION CONTROLS TO ENSURE THAT THEY CONTINUE TO FUNCTION AS INTENDED.
- ANY UNCONFINED IN-STREAM WORK WITHIN THE WATERCOURSE SHALL BE RESTRICTED TO THE PERIOD FROM JULY 1 TO SEPTEMBER 30, INCLUSIVE.
- NO UNCONTROLLED DISCHARGE OF WATER OR SEDIMENT SHALL BE PERMITTED. ALL WATER HANDLING OPERATIONS SHALL BE CONTAINED AND DIRECTED AS APPROVED.
- WATER HANDLING SYSTEM SHALL NOT EXCEED IMPACT AREAS SHOWN ON THE WETLAND AND FLOODPLAIN IMPACT SHEETS OF THE PERMIT PLANS.
- EQUIPMENT AND FUEL STORAGE SHALL BE LOCATED AWAY FROM THE PROJECT SITE TO PREVENT POSSIBLE FUEL LEAKS FROM ENTERING THE STREAM.
- ALL DEBRIS GENERATED DURING DEMOLITION OR CONSTRUCTION WHICH ENTERS THE BROOK OR WETLANDS MUST BE IMMEDIATELY REMOVED. SUCH MATERIAL SHALL BE DISPOSED OF AT AN APPROPRIATE UPLAND LOCATION OUTSIDE OF ANY WETLANDS AND FLOODPLAIN OR TAKEN TO AN APPROPRIATE DISPOSAL FACILITY.
- PRIOR TO MOVING EQUIPMENT INTO THE PROJECT AREA, THE CONTRACTOR MUST TAKE REASONABLE MEASURES TO ENSURE THAT EACH PIECE OF EQUIPMENT IS FREE OF SOIL, SEEDS, VEGETATIVE MATTER, OR OTHER DEBRIS THAT MY CONTAIN SEEDS OF NON-NATIVE INVASIVE SPECIES.
- A DEWATERING BASIN SHALL BE ESTABLISHED OUTSIDE OF THE WETLAND LIMITS. THE LOCATION OF THE DEWATERING BASIN IS APPROXIMATE. THE EXACT POSITION MAY VARY BASED ON THE PUMPING DESIGN SUBMISSION AND APPROVED BY THE ENGINEER. THIS WORKS HALL BE PAID FOR UNDER "HANDLING WATER". HANDLING WATER SHALL COVER THE WORK PERTAINING TO THE DEWATERING BASIN ITSELF.
- TEMPORARY WATER HANDLING COFFERDAM SHALL BE DESIGNED BY THE CONTRACTOR TO SAFELY CONVEY WATER FLOW THROUGH THE CONSTRUCTION AREA, SHALL BE ABLE TO SUPPORT CONSTRUCTION ACTIVITY AND EXCAVATION, AND SHALL CONFORM TO PERMITS. THIS WORK SHALL BE PAID FOR UNDER THE ITEM "COFFERDAM AND DEWATERING".
- TEMPORARY AND PERMANENT EARTH RETAINING SYSTEM REQUIRED TO RETAIN EXISTING GRADE SHALL BE DESIGNED BY THE CONTRACTOR TO SUPPORT CONSTRUCTION ACTIVITY AND EXCAVATION. THIS WORK SHALL BE PAID UNDER THE ITEM "TEMPORARY EARTH RETAINING SYSTEM" AND "EARTH RETAINING SYSTEM LEFT IN PLACE". THE CONTRACTOR SHALL DESIGN AND LAYOUT THE TERS TO PROVIDE ADEQUATE ACCESS FOR MICROPILE INSTALLATION AND FOOTING CONSTRUCTION.
- ALL PRECAST CONCRETE COMPONENTS, INCLUDING THE ARCH STRUCTURE AND WINGWALLS, SHALL BE FABRICATED AND ACCEPTED PRIOR TO THE IMPLEMENTATION OF THE DETOUR.
- ALL TEMPORARILY IMPACTED AREAS SHALL BE RESTORES TO THEIR ORIGINAL PRE-CONSTRUCTION CONTOURS.
- EXISTING STRUCTURES AND ELEMENTS TO REMAIN SHALL BE PROTECTED AT ALL TIMES. ANY DAMAGE SHALL BE REPAIRED AT NO ADDITIONAL COST.
- CONSTRUCTION SEQUENCING SHALL NOT CREATE UNSUPPORTED OR UNSTABLE CONDITIONS AT ANY TIME. MAINTAIN STRUCTURAL AND EMBANKMENT STABILITY THROUGHOUT ALL STAGES.
- AT LOCATIONS WHERE DRAINAGE PIPES CROSS BENEATH SIDEWALK, PROVIDE APPROVED SUPPORT AND BACKFILL TO PREVENT SETTLEMENT. DO NOT CONSTRUCT SIDEWALK OVER INADEQUATELY SUPPORTED TRENCH.
- SIDEWALK OR WIDENED ROADWAY SECTIONS SHALL NOT BE CONSTRUCTED ON UNSUPPORTED OR UNSTABLE MATERIAL.
- NO DRILLING, CORING, OR PENETRATION OF STRUCTURAL ELEMENTS SHALL BE PERFORMED WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

<p>THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.</p>		<p>DESIGNER/DRAFTER: EH</p> <p>CHECKED BY: MG</p> <p>SCALE AS NOTED</p>	<p>TOWN OF AVON</p>	<p>SIGNATURE/BLOCK: </p> <p>919 MIDDLE STREET MIDDLETOWN, CT 06457</p>	<p>PROJECT TITLE: REPLACEMENT OF TILLOTSON ROAD BRIDGE OVER THOMPSON BROOK</p>	<p>TOWN: AVON</p> <p>DRAWING TITLE: WATER HANDLING PLAN - 1</p>	<p>PROJECT NO. 9004-0015</p> <p>DRAWING NO. S-05</p> <p>SHEET NO.</p>
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 4/30/2026	Filename: SB_CP_3572_WATER HANDLING PLAN 1.DWG		



FOUNDATION PLAN

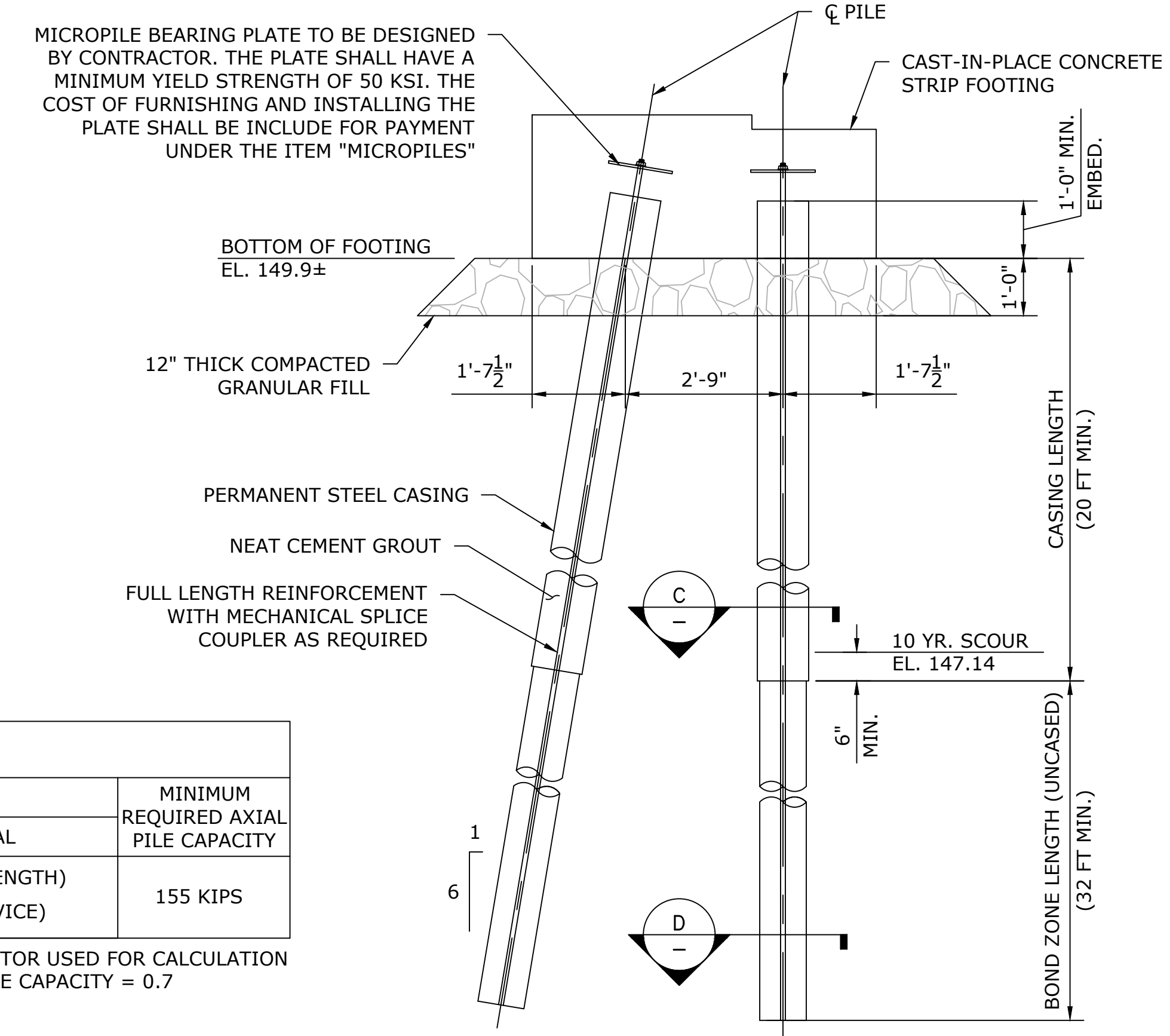
SCALE: 1" = 5'

LEGEND

- = BATTERED MICROPILE
- = VERTICAL MICROPILE
- ⊙ = PROOF PILE
- = VERIFICATION PILE

PILE HEAD DESIGN LOADS		MINIMUM REQUIRED AXIAL PILE CAPACITY
AXIAL	LATERAL	
108 KIPS (STRENGTH)	7 KIPS (STRENGTH)	155 KIPS
76 KIPS (SERVICE)	7 KIPS (SERVICE)	

RESISTANCE FACTOR USED FOR CALCULATION OF ULTIMATE PILE CAPACITY = 0.7

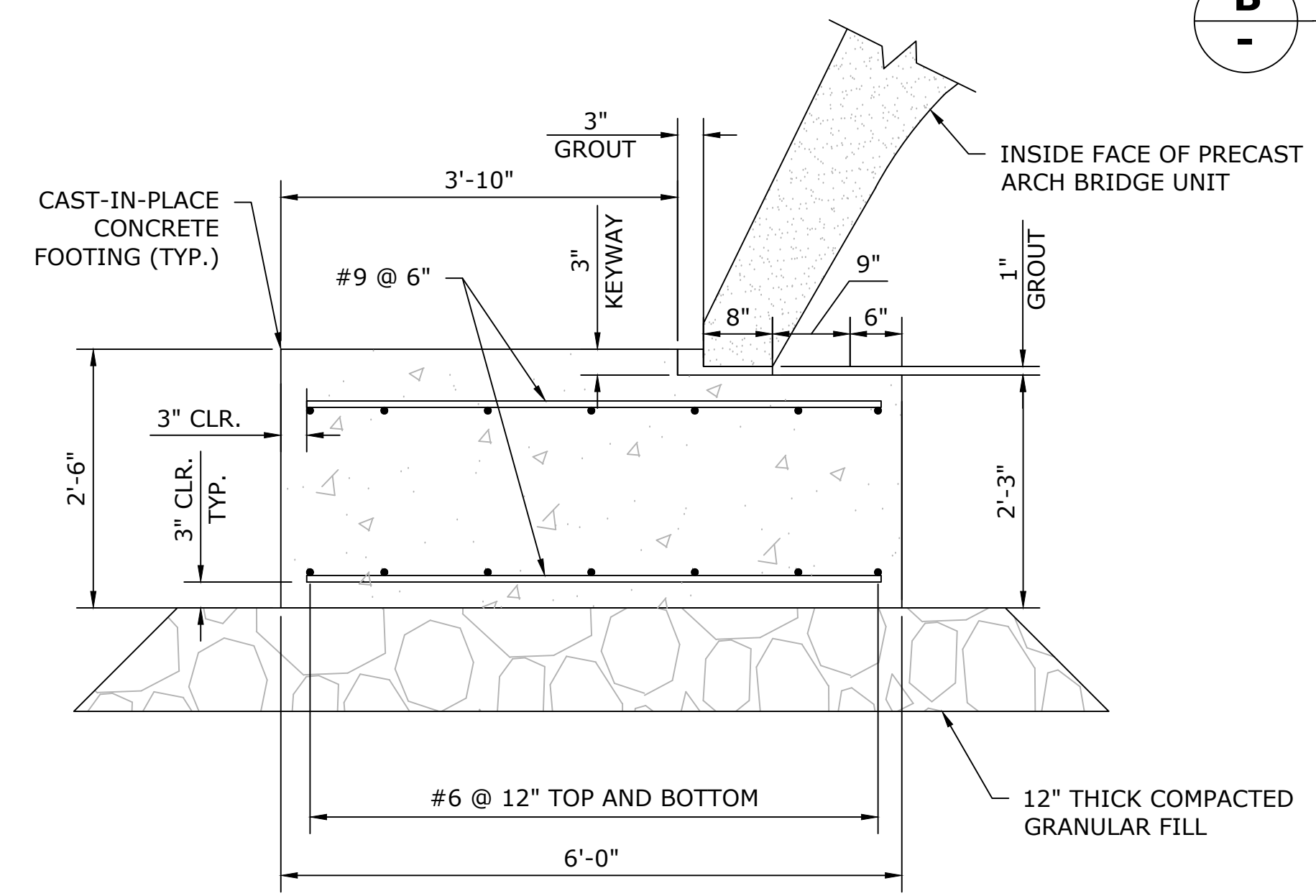


B TYPICAL MICROPILE SECTION

SCALE: 1/2" = 1'-0"

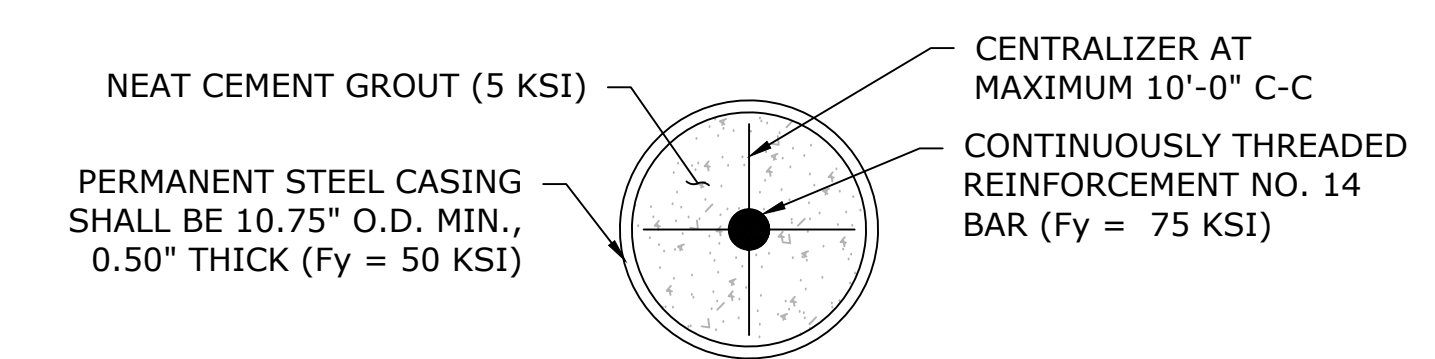
PILE NOTES:

- MICROPILES SHALL BE DESIGNED, INSTALLED AND TESTED BY THE CONTRACTOR IN ACCORDANCE WITH SECTION 7.06 OF CONNECTICUT DEPARTMENT OF TRANSPORTATION, FORM 819, DATED 2025.
- THE MAXIMUM SCOUR ELEVATION SHOWN IN THIS DRAWING, OCCURRING AT THE 10-YEAR STORM EVENT, IS THE GOVERNING STORM EVENT AND IS BASED ON SCOUR DEPTHS STATED IN THE SCOUR REPORT BY AI ENGINEERS DATED 02/20/24.
- THE CONTRACTOR SHALL DESIGN THE PILES FOR THE 10-YEAR SCOUR EVENT BASED ON THE ELEVATIONS SHOWN ON THE PLANS. THE DESIGN SHALL INCLUDE THE STRUCTURAL AND GEOTECHNICAL STABILITY OF THE PILES SUBJECTED TO THE PILE HEAD DESIGN LOADS PROVIDED IN THE PILE DATA TABLE. THE PILE DESIGN SHALL BE SUBMITTED FOR REVIEW AND APPROVAL TO THE ENGINEER.
- A "VERIFICATION TEST FOR MICROPILES" SHALL BE PERFORMED ON A SINGLE NON-PRODUCTION MICROPILE. LOCATION OF THE TEST SHALL BE DETERMINED BY THE CONTRACTOR, WITH THE APPROVAL OF THE ENGINEER.
- A "PROOF TEST FOR MICROPILES" SHALL BE PERFORMED ON A SINGLE PRODUCTION MICROPILE AT EACH ABUTMENT. THE PROOF TEST LOCATIONS FOR EACH PILE, AT EACH ABUTMENT ARE SHOWN ON THIS DRAWING. ANY CHANGE TO THE NUMBER OF PILES TO BE PROOF TESTED AND THEIR LOCATION SHALL BE SUBMITTED FOR APPROVAL OF THE ENGINEER.
- THE CONNECTION OF THE STEEL CASINGS TO THE PILE CAP SHALL BE DESIGNED BY THE CONTRACTOR TO RESIST THE DESIGN MAXIMUM STRENGTH LIMIT VERTICAL LOAD, MOMENT AND SHEAR ON THE PILE. THE MAXIMUM STRENGTH LIMIT DESIGN LOADS ARE PROVIDED IN THE PILE DATA TABLE ON THIS DRAWING.
- THE BEARING PLATE ON TOP OF THE CASING REINFORCEMENT SHALL BE DESIGNED BY THE CONTRACTOR.
- THE MICROPILE CASING SHALL EXTEND BELOW THE 10-YEAR SCOUR ELEVATION (MAXIMUM SCOUR OCCURRENCE). THE CASING LENGTH SHOWN IS AN ESTIMATED LENGTH. THE CONTRACTOR SHALL DESIGN THE ACTUAL CASING LENGTH.
- THE BONDED PORTION OF THE MICROPILE SHALL BE BELOW THE 10-YEAR SCOUR ELEVATION AND SHALL BE DEVELOPED IN THE NATURAL SAND AND/OR SAND/SILT DEPOSITS AS RECOMMENDED IN THE GEOTECHNICAL REPORT BY DOWN TO EARTH, LLC DATED DECEMBER 2023. THIS REPORT WILL BE MADE AVAILABLE TO THE CONTRACTOR UPON REQUEST.
- ANY SPLICING OF THE CENTRAL REINFORCEMENT OF THE MICROPILES SHALL BE REQUESTED BY THE CONTRACTOR PRIOR TO FINALIZING THE DESIGN. ONLY MECHANICAL SPLICES (COUPLERS) SHALL BE USED FOR SPLICING. SPLICES SHALL DEVELOP 125% OF THE SPECIFIED YIELD STRENGTH OF THE BAR BEING SPLICED, IN TENSION AND COMPRESSION.
- NO CASING JOINTS SHALL BE PRESENT WITHIN 15 FEET OF THE TOP OF THE PILE. CASING JOINTS BELOW 15 FEET SHALL BE ADEQUATELY DESIGNED TO TRANSMIT PILE LOADS AND SHALL BE DETAILED AND INCLUDED IN THE CONTRACTOR'S DESIGN. CASING JOINT REINFORCEMENT ARE REQUIRED AT ALL JOINTS AND SHALL BE DESIGNED AND DETAILED BY THE CONTRACTOR.
- MICROPILES SHALL BE INSTALLED WITHIN THE ALLOWABLE CONSTRUCTION TOLERANCES:
 - CENTERLINE OF PILING SHALL NOT BE MORE THAN 3 INCHES FROM INDICATED PLAN LOCATION.
 - CENTERLINE OF REINFORCING STEEL SHALL NOT BE MORE THAN 0.5 INCH FROM THE CENTERLINE OF THE PILE.
 - PILE SHALL BE PLUMB OR BATTERED WITHIN 2% OF TOTAL-LENGTH PLAN ALIGNMENT.
 - TOP ELEVATION OF PILE SHALL BE PLUS 1 INCH OR MINUS 1 INCH MAXIMUM FROM VERTICAL ELEVATION INDICATED.
- NEAT CEMENT GROUT SHALL ATTAIN A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 5000 PSI.



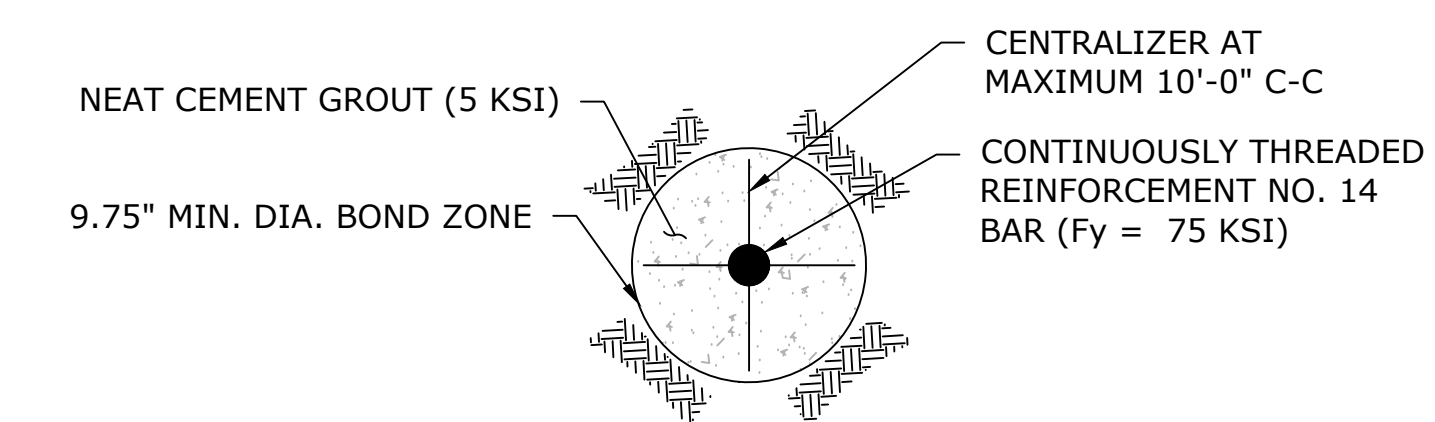
A TYPICAL FOUNDATION SECTION

SCALE: 3/4" = 1'-0"



C CASED MICROPILE

SCALE: 3" = 1'-0"

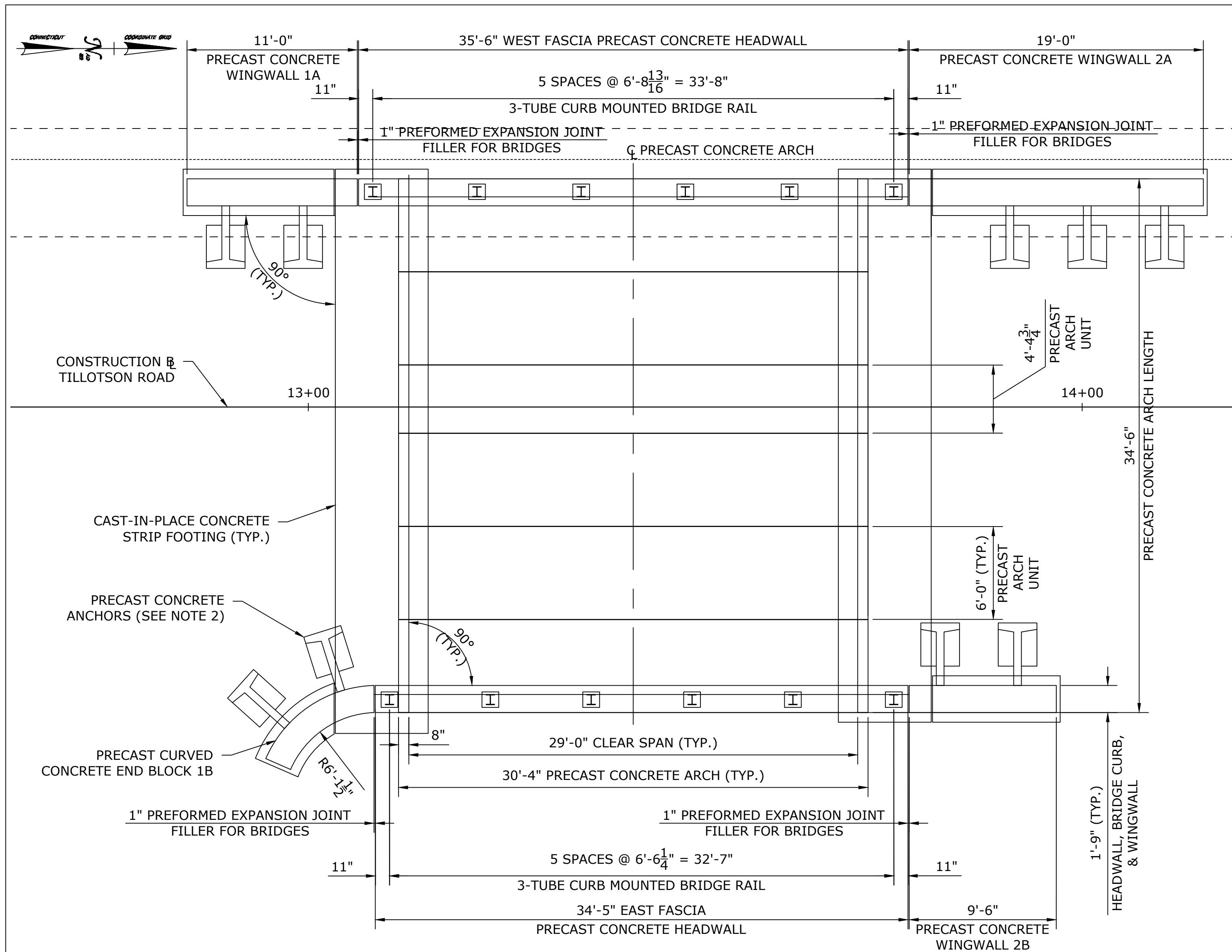


D UNCASD MICROPILE

SCALE: 3" = 1'-0"

- PAY ITEM "MICROPILE LENGTH ADJUSTMENT" SHALL BE USED TO PAY FOR DIFFERENCES BETWEEN ESTIMATED LENGTHS AND ACTUAL LENGTHS OF THE CASINGS. THE CASING LENGTH AND BONDED LENGTH ARE ESTIMATED LENGTHS.
- THE DRILLING EQUIPMENT AND METHODS SHALL BE SUITABLE FOR DRILLING THROUGH THE CONDITIONS TO BE ENCOUNTERED. WHEN OBSTRUCTIONS ARE ENCOUNTERED THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF THEM IMMEDIATELY. CASINGS THAT FAIL, FRACTURE, OR OTHERWISE DISTORT DURING DRILLING OR AFTER DRILLING SHALL BE WITHDRAWN OR REPLACED AT THE CONTRACTOR'S EXPENSE.

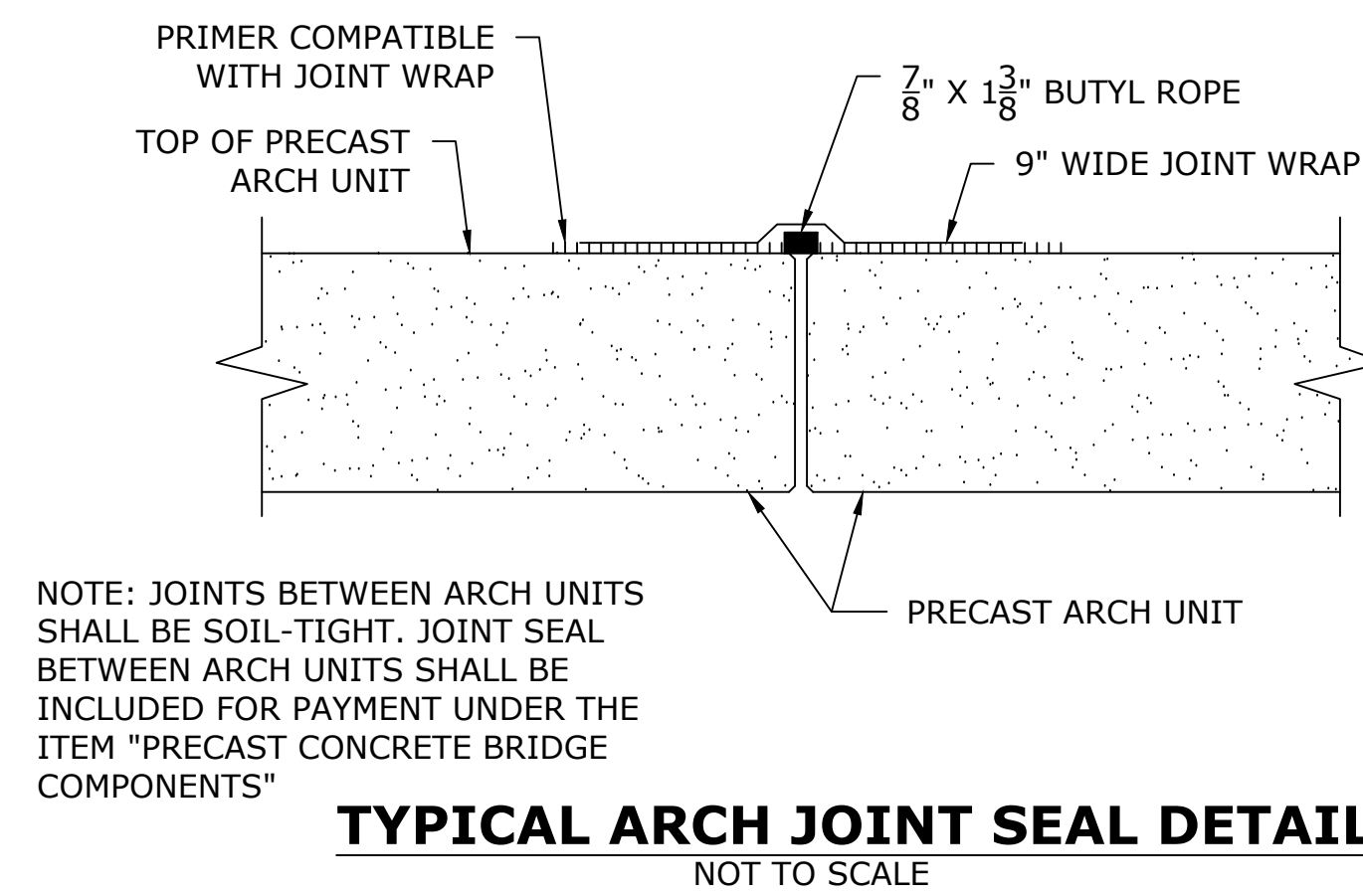
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DESIGNER/DRAFTER: EP	TOWN OF AVON	SIGNATURE/ BLOCK: 	PROJECT TITLE: REPLACEMENT OF TILLOTSON ROAD BRIDGE OVER THOMPSON BROOK	TOWN: AVON	PROJECT NO. 9004-0015
	CHECKED BY: MG				SCALE AS NOTED	DRAWING TITLE: PILE LAYOUT PLAN
REV. DATE REVISION DESCRIPTION SHEET NO. Plotted Date: 4/30/2026	Filename: SB_CP_3572_PILE LAYOUT PLAN.DWG					



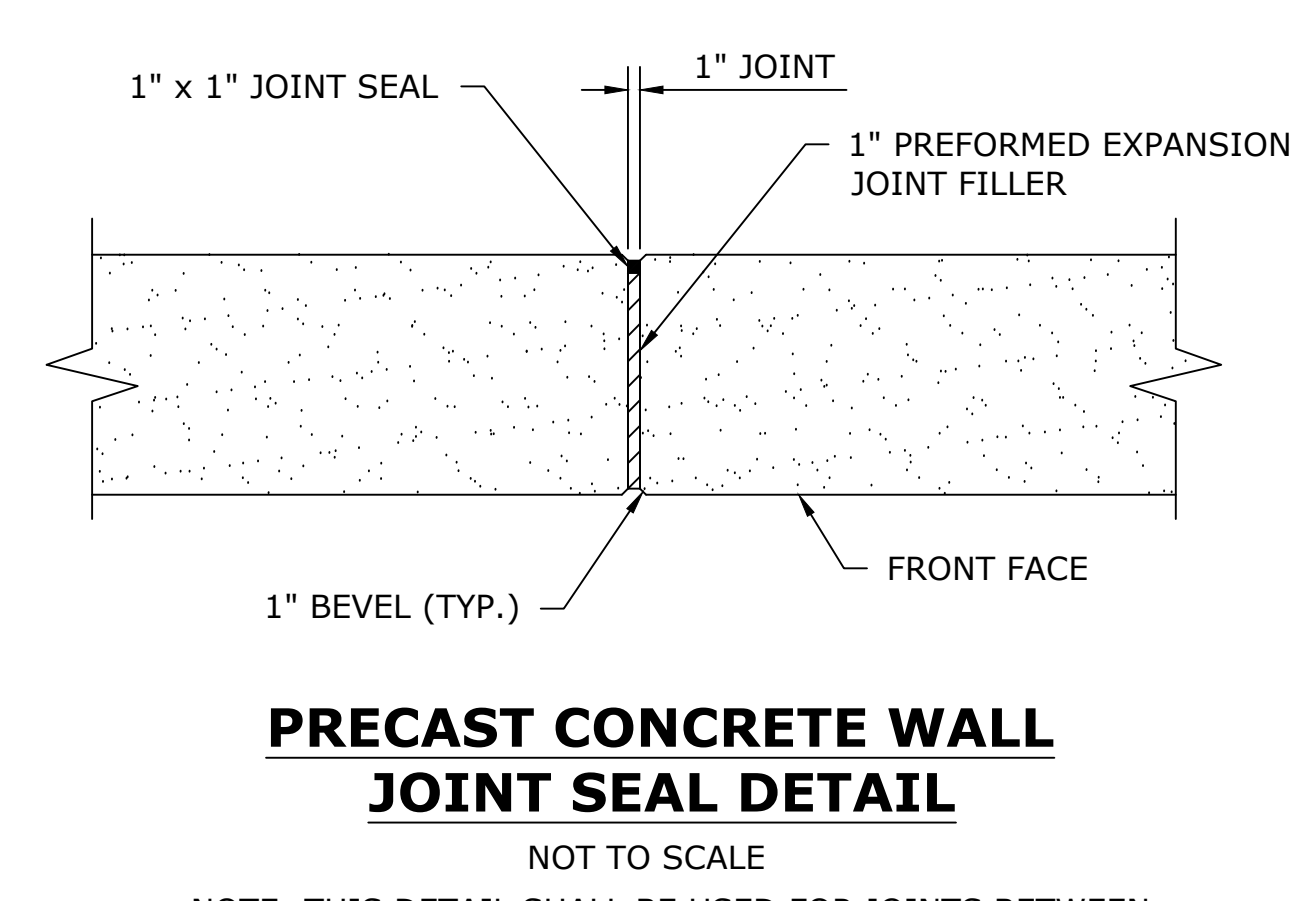
FRAMING PLAN
SCALE: 1" = 5'

NOTES:

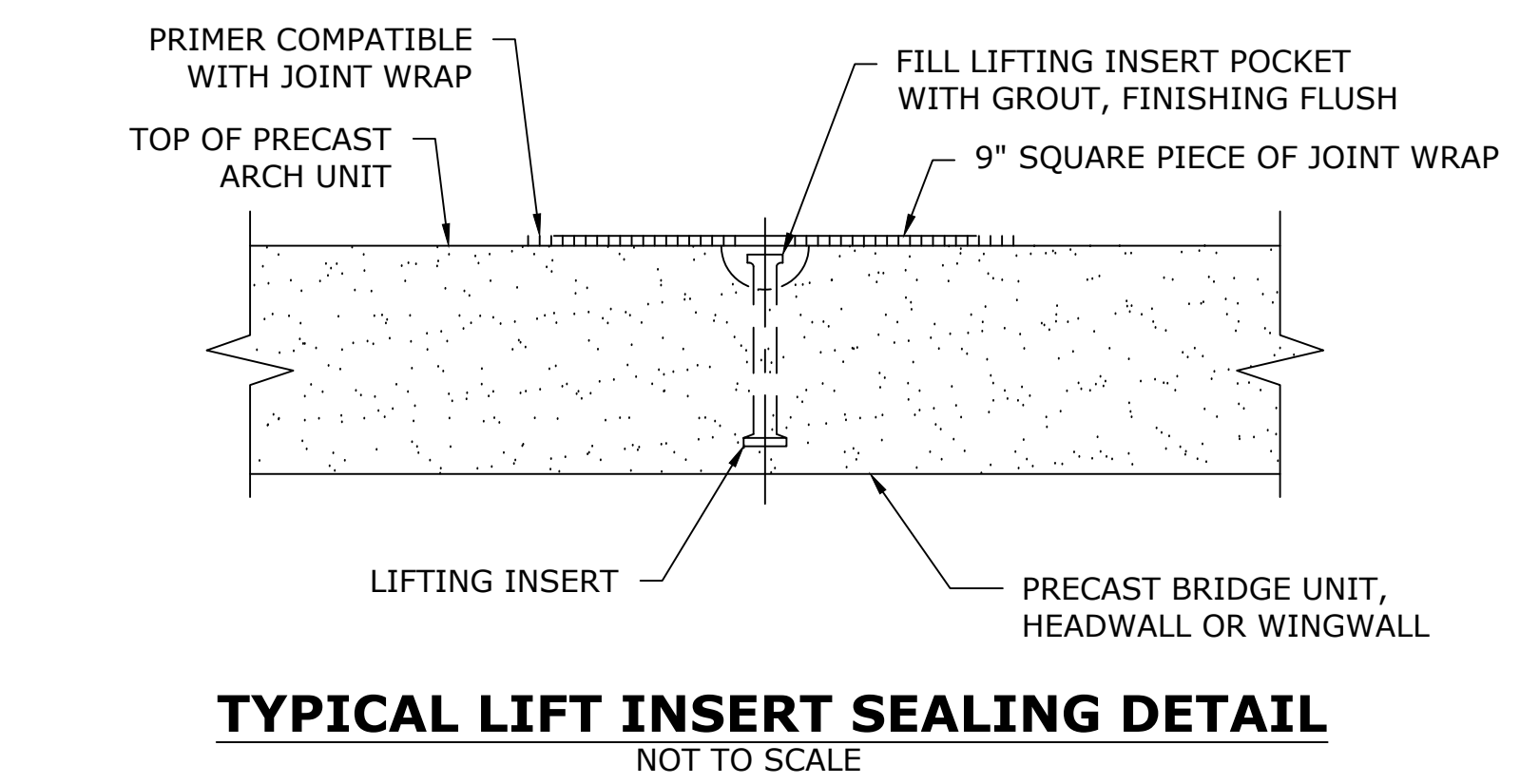
- ALL PRECAST CONCRETE COMPONENTS, INCLUDING THE ARCH STRUCTURE, HEADWALLS, AND WINGWALLS, SHALL BE FABRICATED AND ACCEPTED PRIOR TO THE IMPLEMENTATION OF THE DETOUR. ALL SHOP DRAWINGS, WORKING DRAWINGS, AND APPLICABLE LOAD RATINGS SHALL BE PREPARED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF CONNECTICUT AND MUST BE APPROVED PRIOR TO ACCEPTANCE OF ANY PRECAST CONCRETE COMPONENT.
- THE PRECAST WALL SECTION, WINGWALL FOOTINGS, AND ANCHORS SHOWN ARE CONCEPTUAL. THE CONTRACTOR MAY ELECT TO USE AN ALTERNATE DETAIL WITH OR WITHOUT ANCHORS. THE ACTUAL DESIGN SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH THE SPECIAL PROVISION FOR "PRECAST CONCRETE BRIDGE COMPONENTS".
- ALL JOINTS BETWEEN ARCH SECTIONS SHALL BE GROUTED OVER SMOOTH. GROUT SHALL BE INCLUDED FOR PAYMENT UNDER THE ITEM "PRECAST CONCRETE BRIDGE COMPONENTS".
- SIZE AND THICKNESS OF WINGWALL FOOTINGS SHOWN FOR ILLUSTRATION ONLY. ACTUAL SIZE SHALL BE DETERMINED BY THE PRECAST CONCRETE FABRICATOR.
- A MINIMUM DEPTH OF 4'-0" FROM FINISHED GRADE TO BOTTOM OF FOOTING SHALL BE PROVIDED.
- THE PRECAST HEADWALL SHALL BE MECHANICALLY CONNECTED TO THE ROOF OF THE ARCH STRUCTURE.
- FOOTING JOINTS SHALL BE GROUTED OVER WITH NON-SHRINK GROUT.
- THE REAR FACE OF HEADWALLS AND WINGWALLS SHALL BE DAMPPROOFED.
- JOINT SEAL SHALL EXTEND FROM TOP OF FOOTING TO TOP OF WALL AND ACROSS TOP OF WALL. JOINT SEAL FOR VERTICAL JOINTS SHALL BE INCLUDED FOR PAYMENT UNDER ITEM "PRECAST CONCRETE BRIDGE COMPONENTS".
- 1/2" PREFORMED EXPANSION JOINT FILLER SHALL BE INCLUDED FOR PAYMENT UNDER THE ITEM "1/2" PREFORMED EXPANSION JOINT FILLER".
- A MINIMUM OF 1'-0" OF FILL COVER ABOVE THE TOP OF THE ARCH IS REQUIRED PRIOR TO ALLOWING CONSTRUCTION EQUIPMENT OR TRAFFIC LOADING.
- COMPACTION REQUIREMENTS:
 - FILL MUST BE PLACED AND COMPACTED IN LAYERS NOT EXCEEDING 8 INCHES. THE MAXIMUM DIFFERENCE IN THE SURFACE LEVELS OF THE FILL ON OPPOSITE SIDES OF THE BRIDGE MUST NOT EXCEED 2 FEET.
 - THE FILL BEHIND THE WINGWALLS MUST BE PLACED AT THE SAME TIME AS THAT OF THE BRIDGE FILL.
 - THE STRUCTURE BACKFILL WITHIN A MINIMUM OF 4 FEET AROUND THE BRIDGE SHALL BE COMPACTED TO A MINIMUM DENSITY OF 95% OF THE STANDARD PROCTOR, AS REQUIRED BY AASHTO T-99.
 - SOIL WITHIN 1 FOOT OF CONCRETE SURFACES SHALL BE HAND COMPACTED.



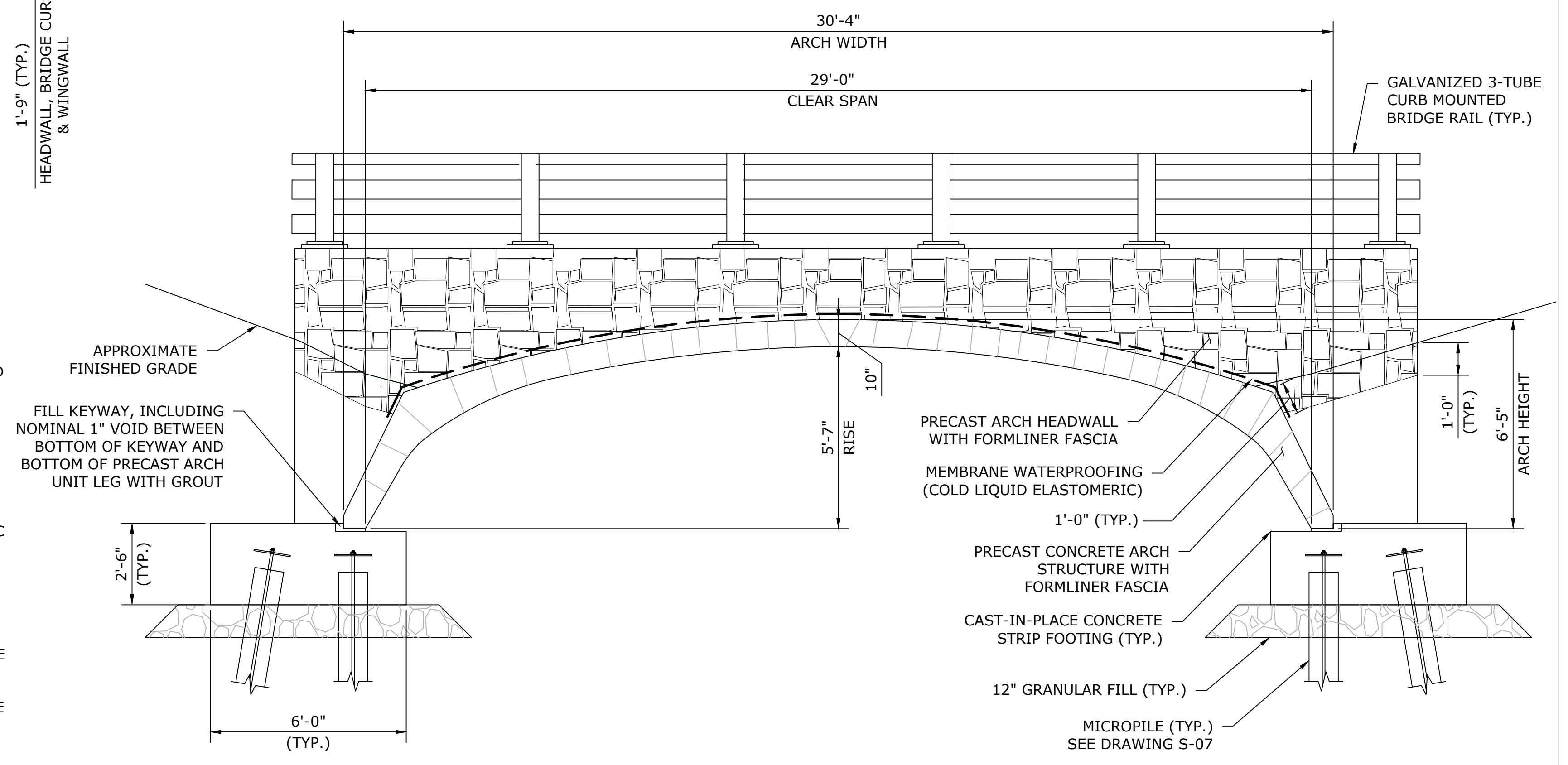
TYPICAL ARCH JOINT SEAL DETAIL
NOT TO SCALE



PRECAST CONCRETE WALL JOINT SEAL DETAIL
NOT TO SCALE



TYPICAL LIFT INSERT SEALING DETAIL
NOT TO SCALE



TYPICAL ELEVATION
SCALE: 3/8" = 1'-0"

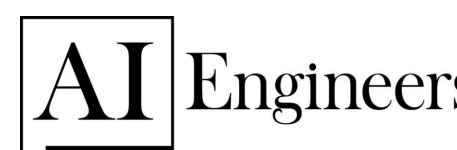
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DESIGNER/DRAFTER: EP
CHECKED BY: MG
SCALE AS NOTED

TOWN OF AVON

Filename: SB_CP_3572_FRAMING PLAN.DWG

SIGNATURE/
BLOCK:



919 MIDDLE STREET
MIDDLETOWN, CT 06457

PROJECT TITLE:

**REPLACEMENT OF
TILLOTSON ROAD BRIDGE
OVER THOMPSON BROOK**

TOWN:

AVON

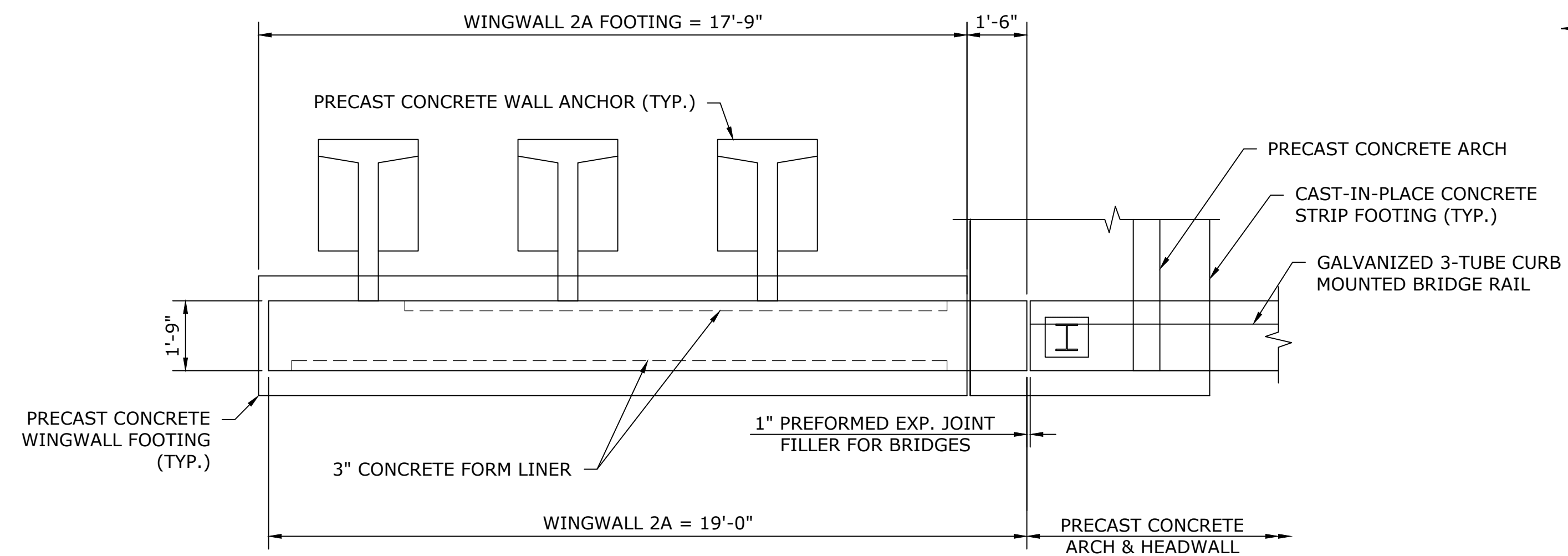
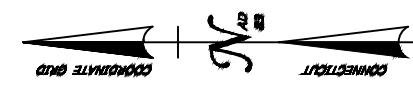
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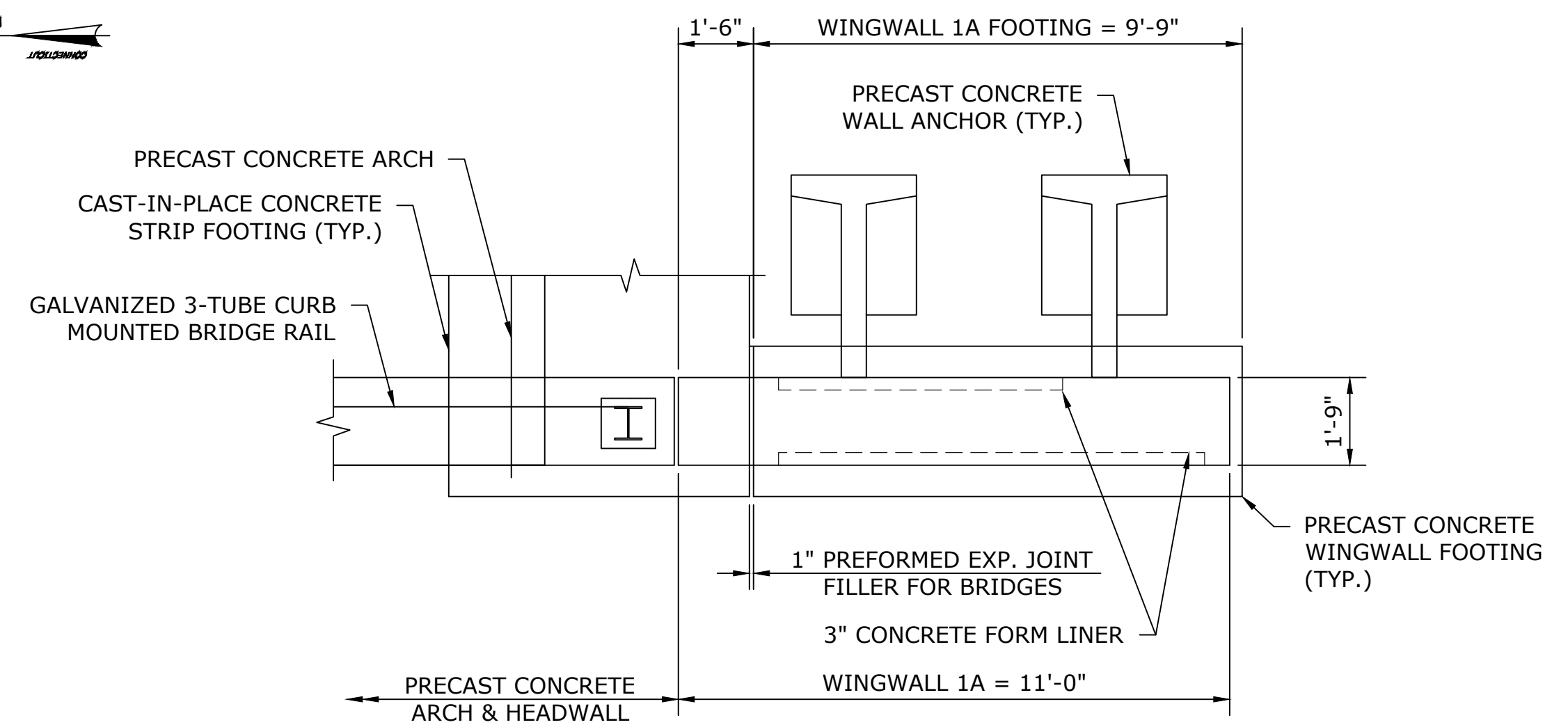
PROJECT NO.
9004-0015

DRAWING NO.
S-08

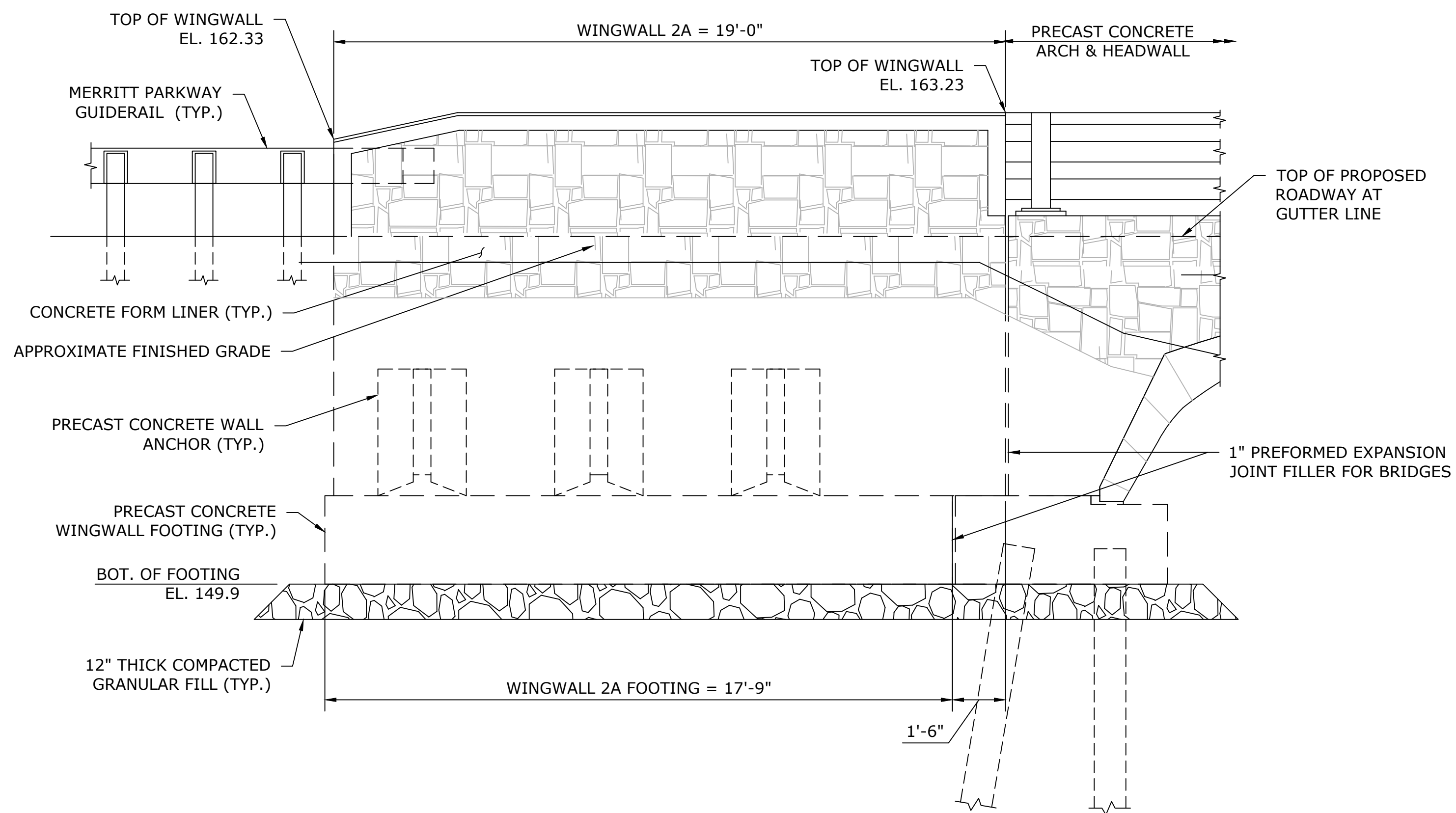
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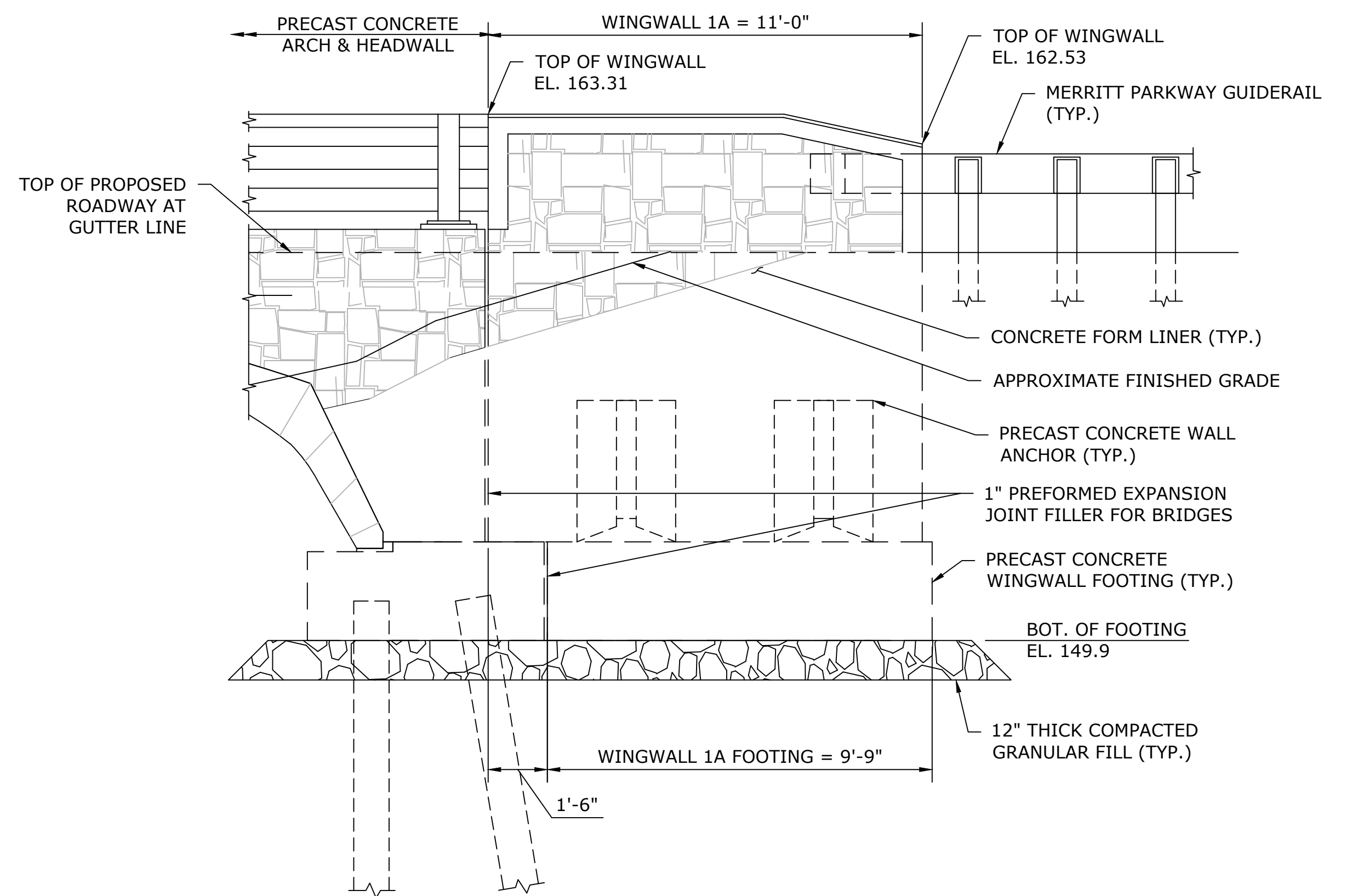
WINGWALL 2A PLAN
SCALE: 3/8" = 1'-0"



WINGWALL 1A PLAN
SCALE: 3/8" = 1'-0"



WINGWALL 2A ELEVATION
SCALE: 3/8" = 1'-0"



WINGWALL 1A ELEVATION
SCALE: 3/8" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 4/30/2026

DESIGNER/DRAFTER: EP
CHECKED BY: MG
SCALE AS NOTED

TOWN OF AVON

Filename: SB_CP_3572_WINGWALL DETAILS - 1.DWG

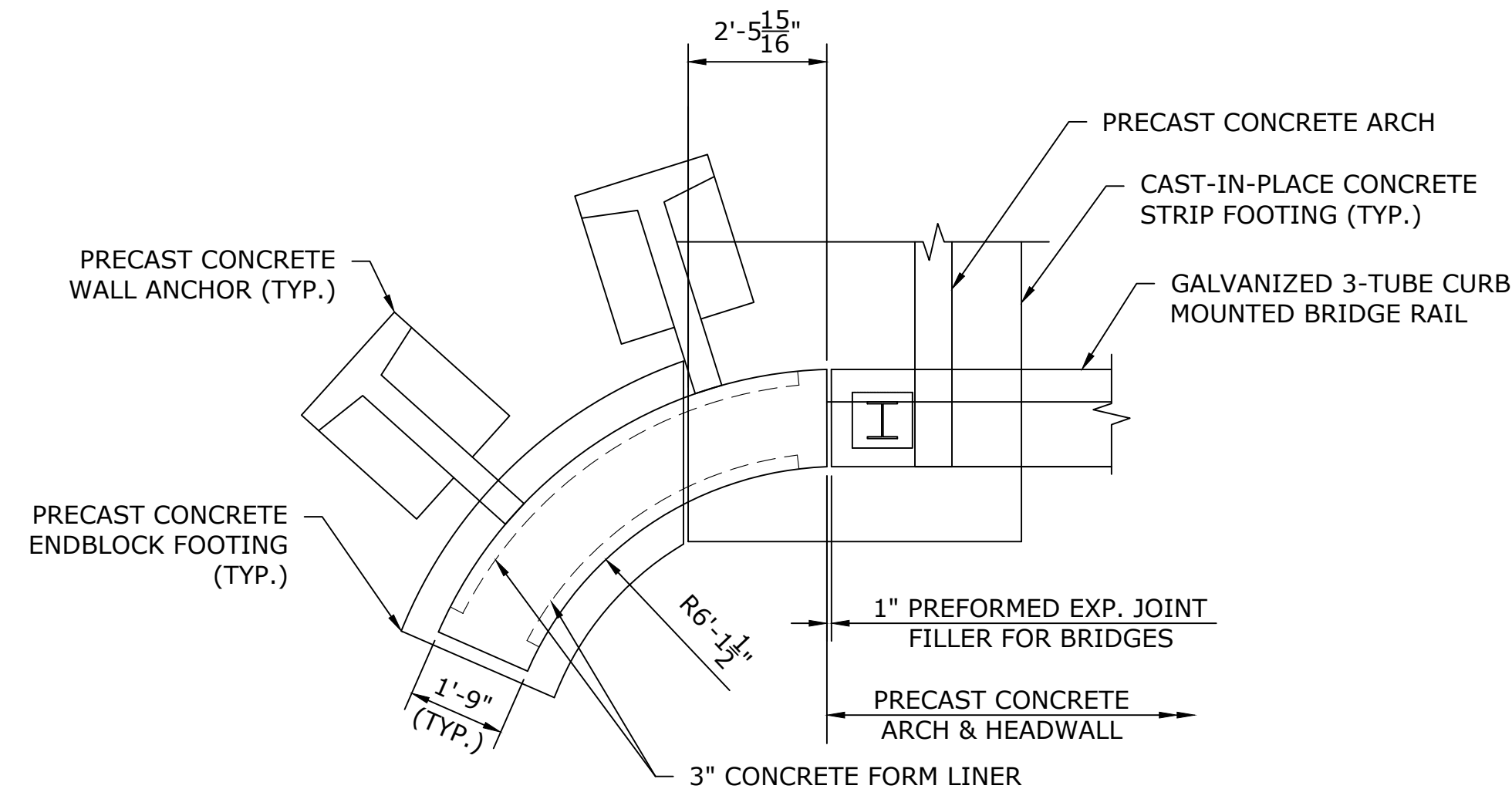
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AI Engineers
919 MIDDLE STREET
MIDDLETOWN, CT 06457

PROJECT TITLE:
REPLACEMENT OF TILLOTSON ROAD BRIDGE OVER THOMPSON BROOK

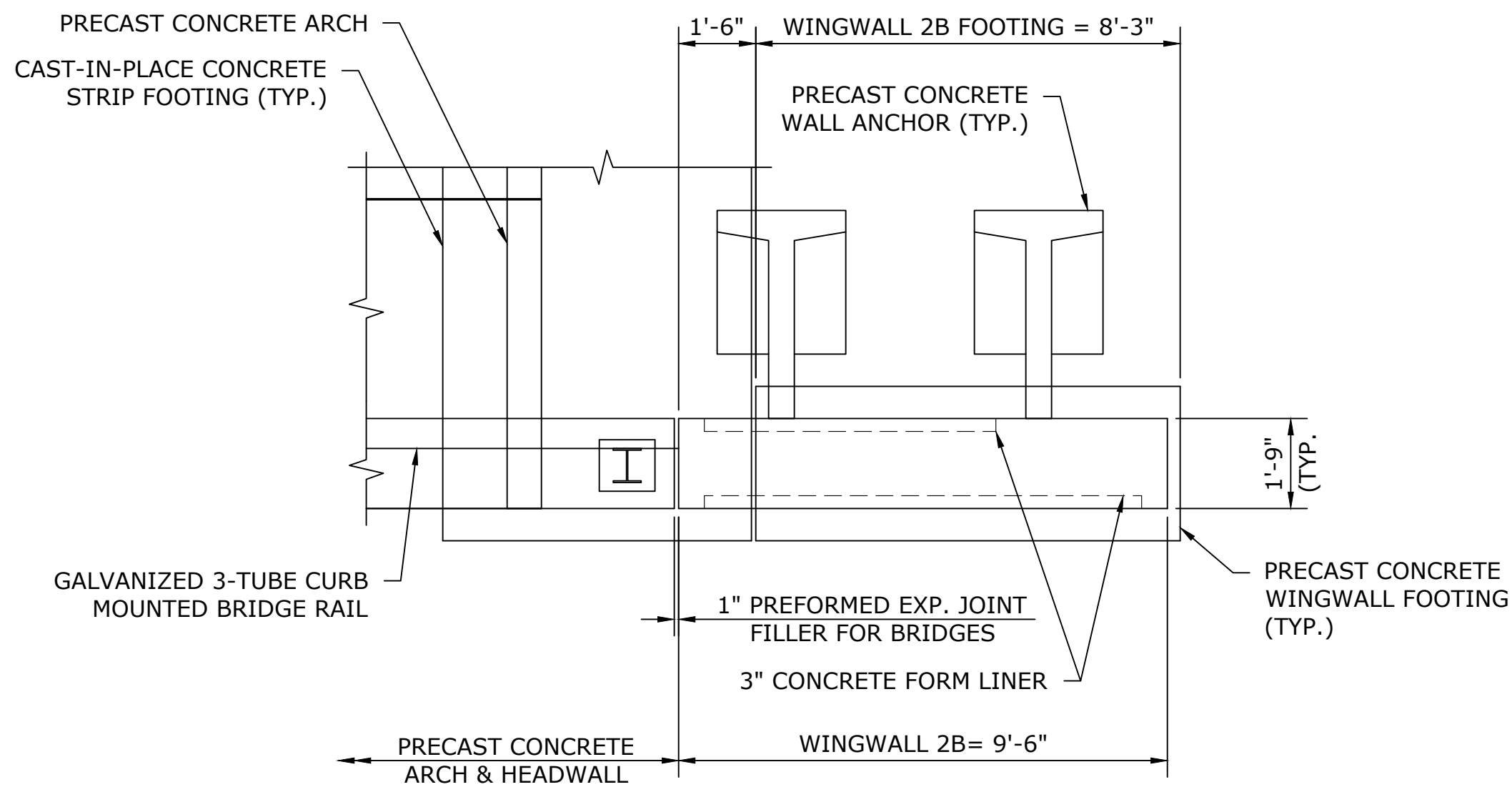
TOWN: **AVON**

DRAWING TITLE:
WINGWALL DETAILS - 1

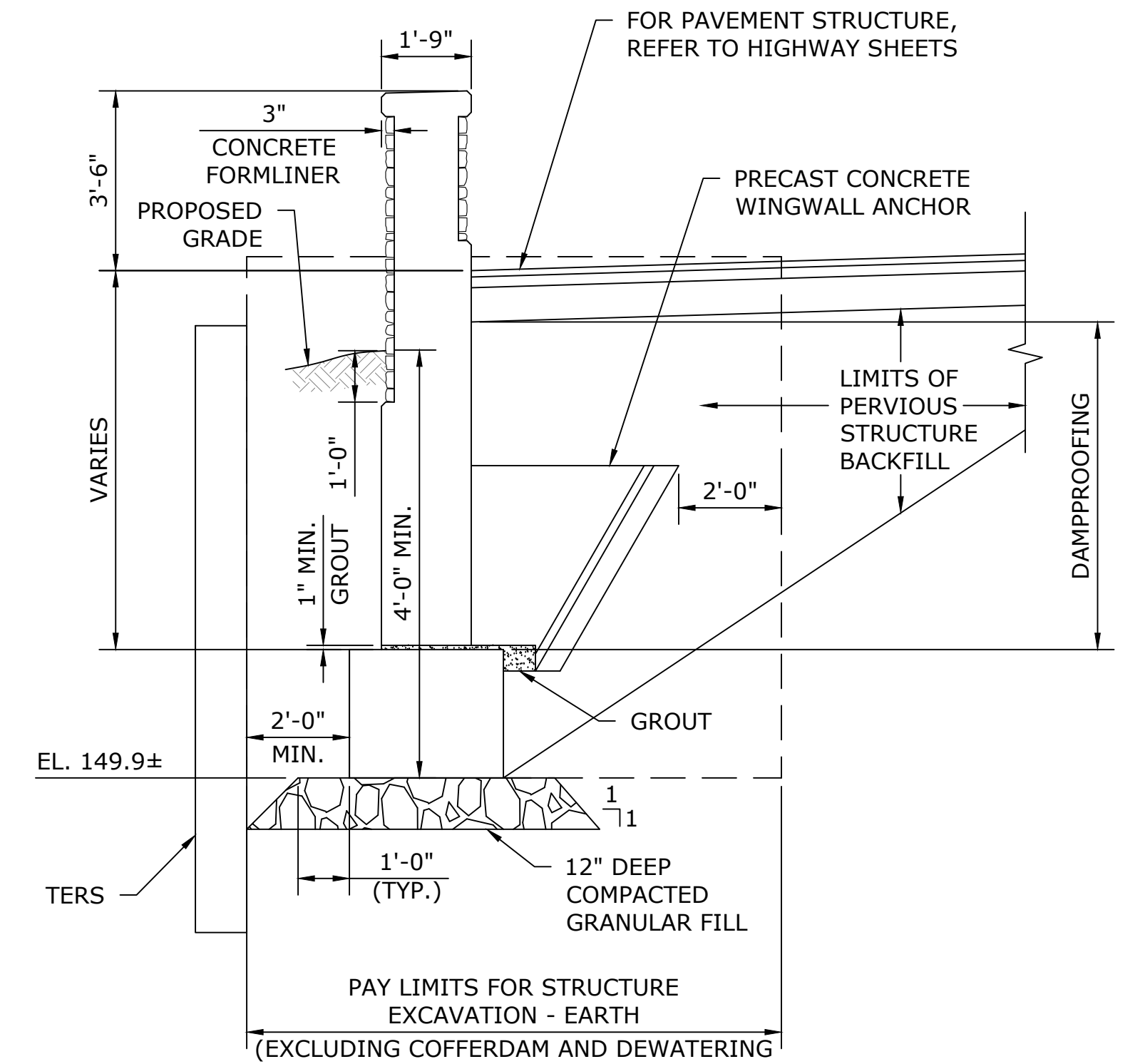
PROJECT NO. **9004-0015**
DRAWING NO. **S-09**
SHEET NO.



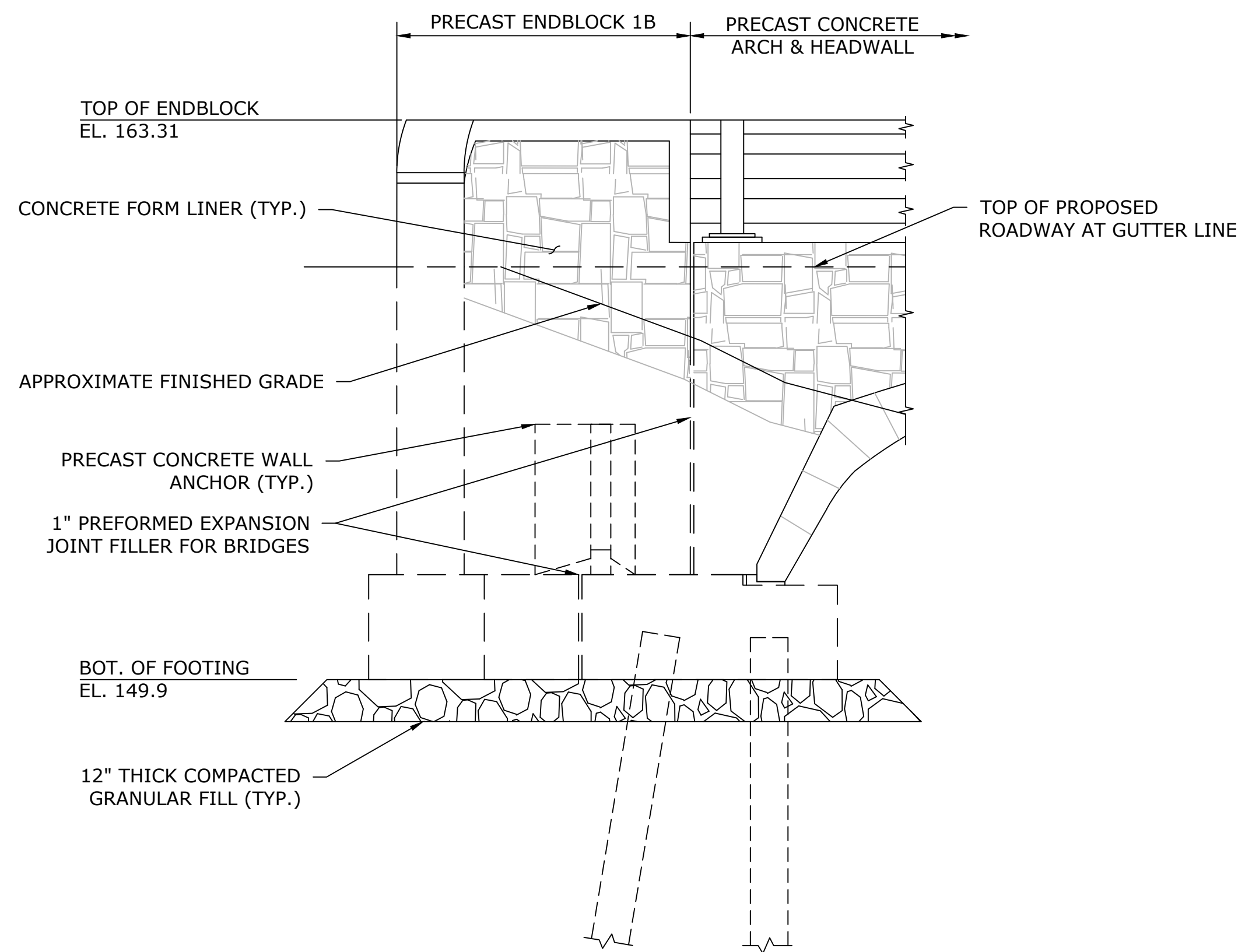
ENDBLOCK 1B PLAN
SCALE: 3/8" = 1'-0"



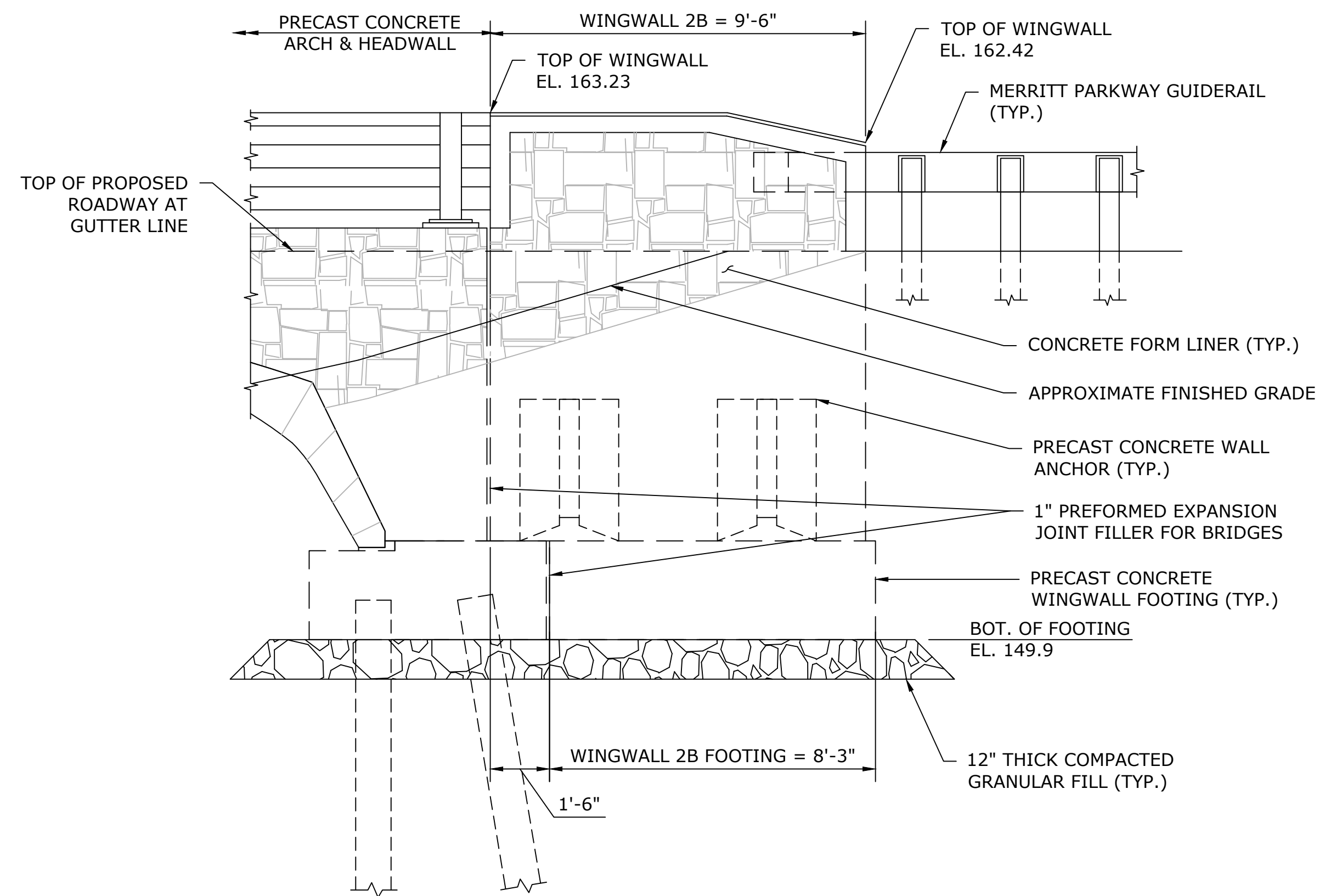
WINGWALL 2B PLAN
SCALE: 3/8" = 1'-0"



TYPICAL WINGWALL SECTION
SCALE: 3/8" = 1'-0"



ENDBLOCK 1B ELEVATION
SCALE: 3/8" = 1'-0"



WINGWALL 2B ELEVATION
SCALE: 3/8" = 1'-0"

- NOTES:
- PER THE GEOTECHNICAL REPORT DATED 5/22/2023, THE MAXIMUM BEARING RESISTANCE = 4.0 KSF (STRENGTH 1) 9.0 KSF (SERVICE 1) USING A SERVICE RESISTANCE FACTOR OF 1.0 AND A STRENGTH RESISTANCE FACTOR OF 0.45.
 - A MINIMUM DEPTH OF 4'-0" FROM FINISHED GRADE TO BOTTOM OF FOOTING SHALL BE PROVIDED.
 - SOIL SUBGRADES FOR ALL PROPOSED STRUCTURES SHALL BE PROOF-COMPACTED PRIOR TO GRANULAR FILL OR CONCRETE PLACEMENT UNDER THE OBSERVATION OF A QUALIFIED GEOTECHNICAL ENGINEER. THE BASE OF FOUNDATION EXCAVATIONS SHOULD BE FREE OF DEBRIS MATERIALS, WATER, ICE, AND LOOSE AND FROZEN SOILS PRIOR TO PLACING COMPACTED FILL OR CONCRETE.
 - GROUT USED AT STEM TO FOOTING KEYWAYS SHALL BE INCLUDED FOR PAYMENT UNDER THE ITEM "PRECAST CONCRETE BRIDGE COMPONENTS"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 4/30/2026

DESIGNER/DRAFTER: EP
CHECKED BY: MG
SCALE AS NOTED

TOWN OF AVON
Filename: SB_CP_3572_WINGWALL DETAILS - 2.DWG

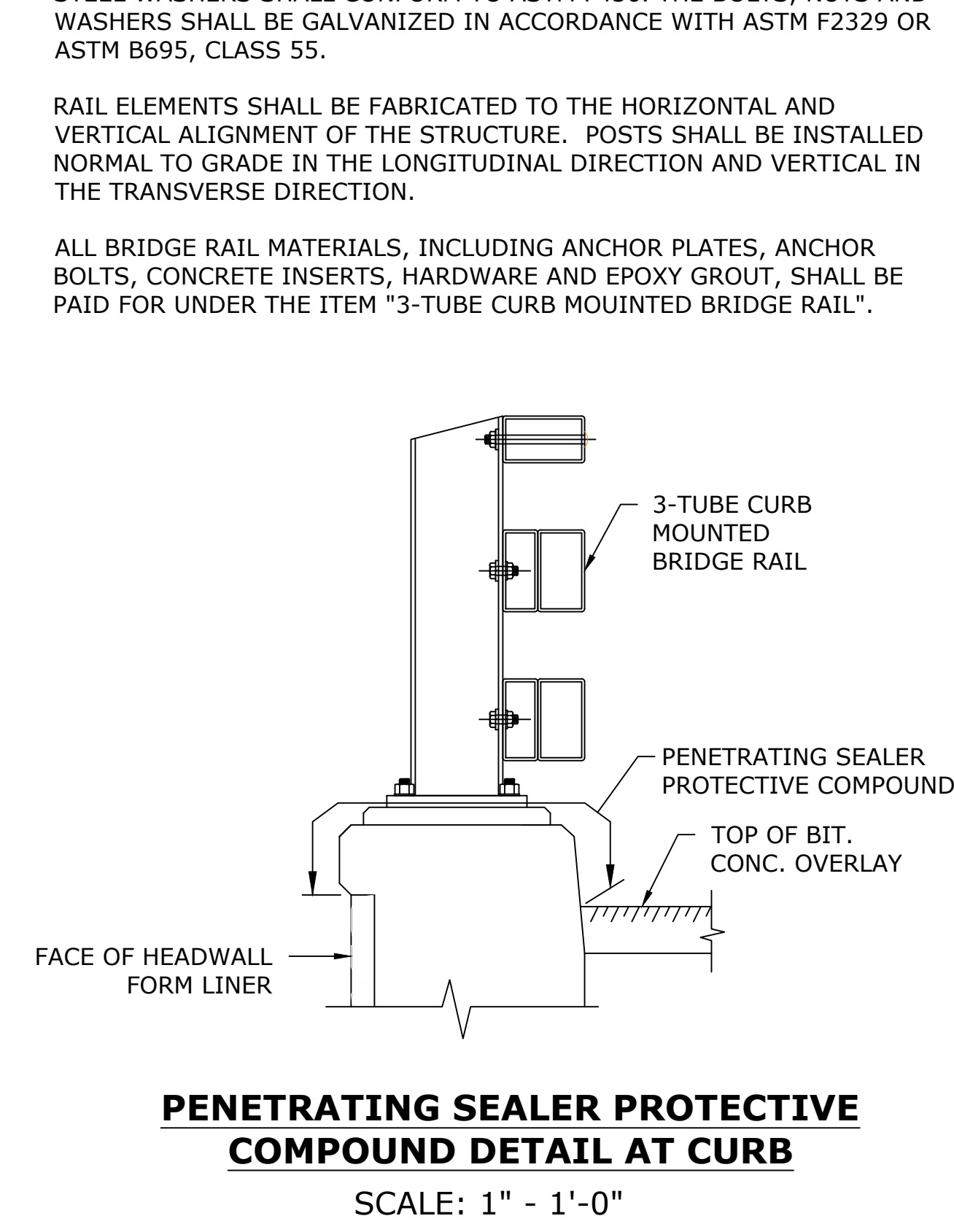
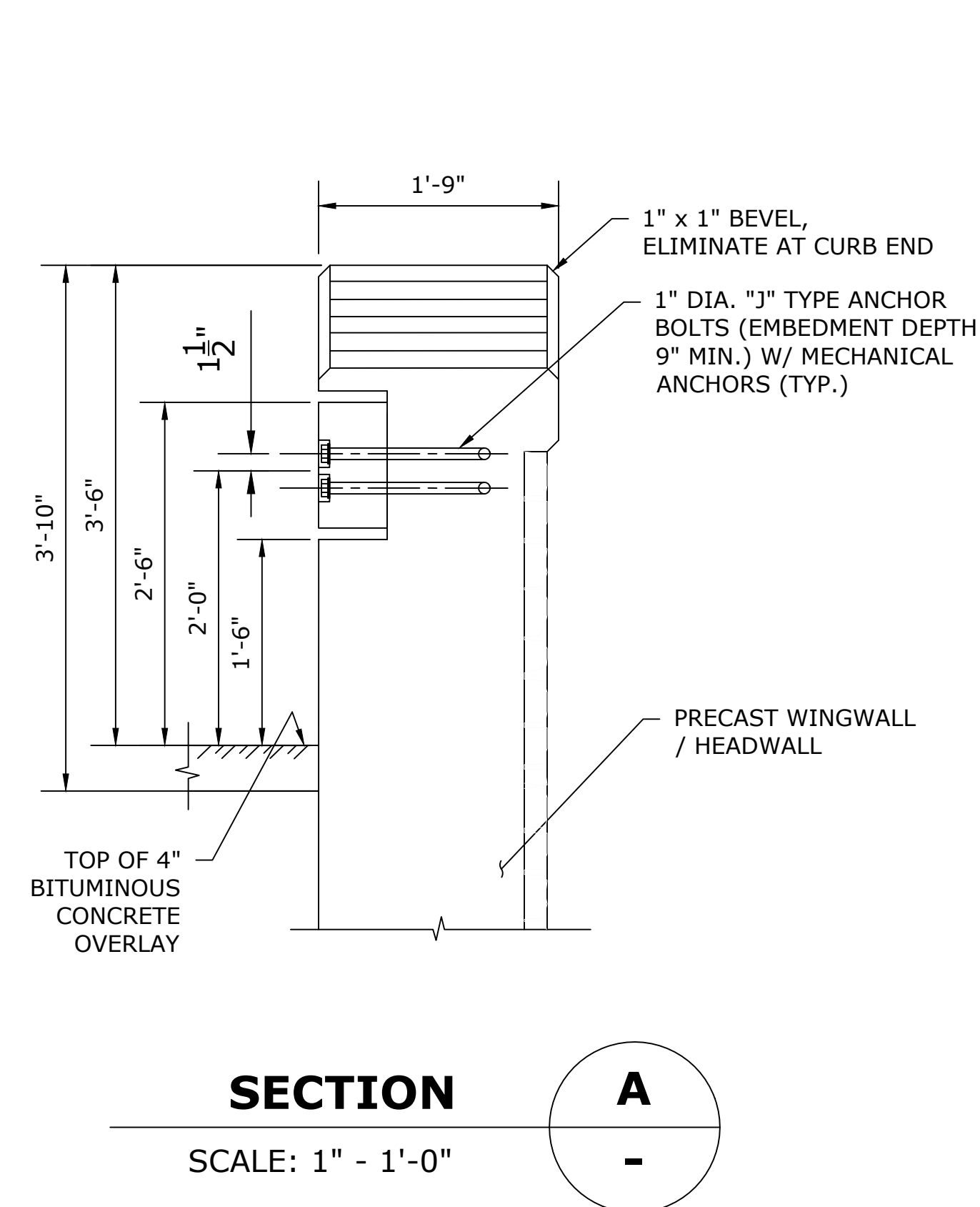
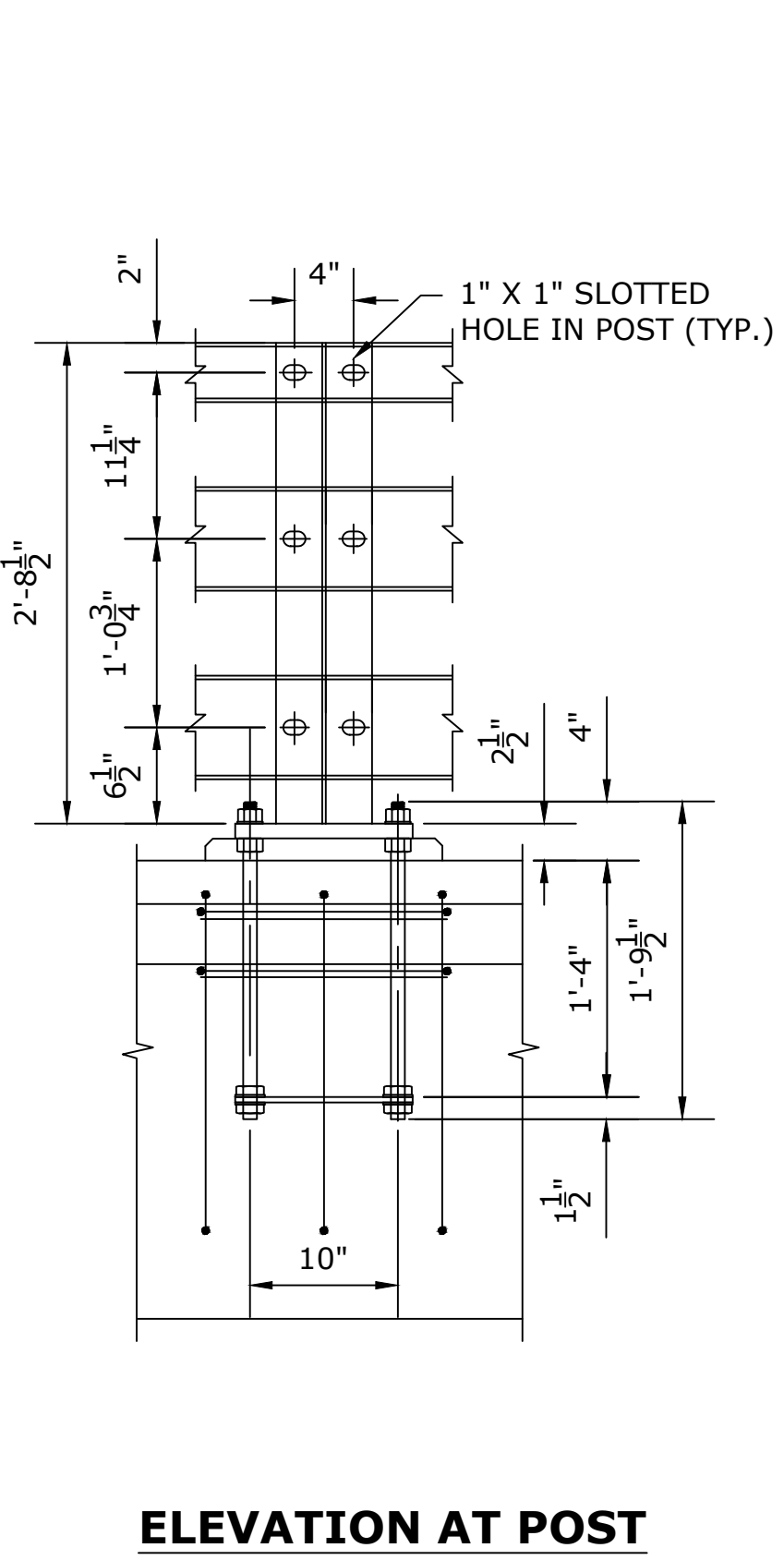
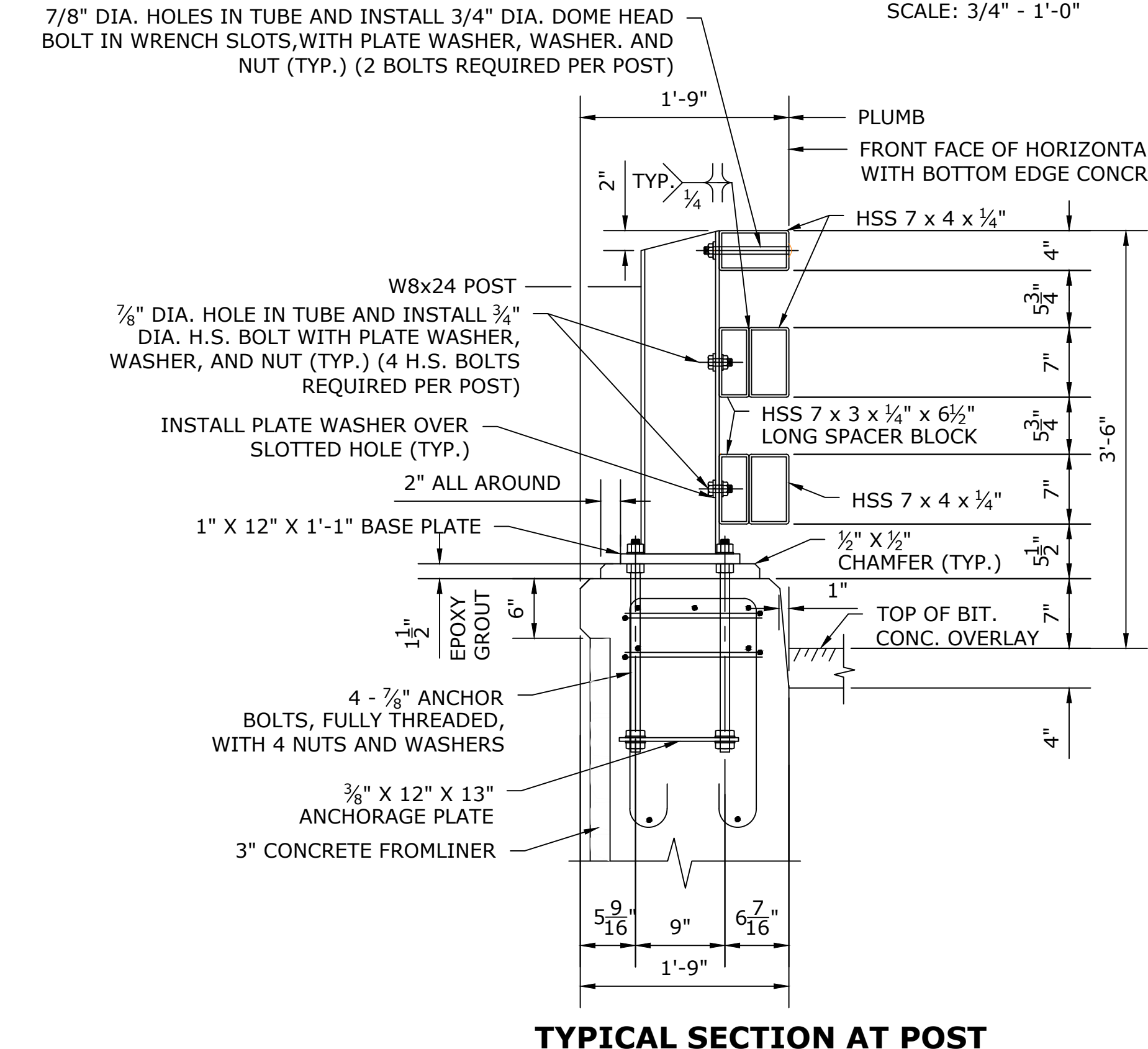
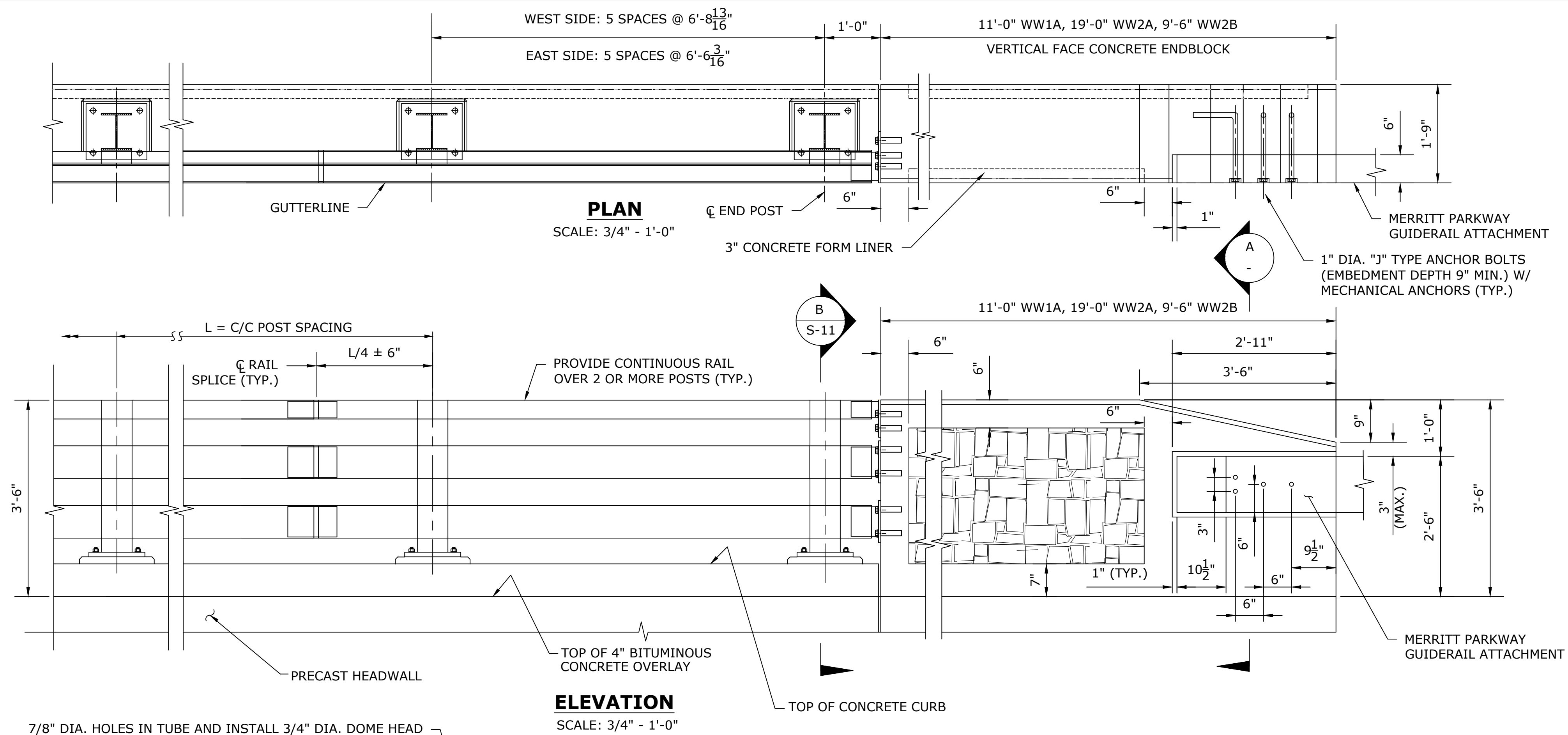
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BLOCK:

919 MIDDLE STREET
MIDDLETOWN, CT 06457

PROJECT TITLE: REPLACEMENT OF TILLOTSON ROAD BRIDGE OVER THOMPSON BROOK

TOWN: AVON
DRAWING TITLE: WINGWALL DETAILS - 2

PROJECT NO. 9004-0015
DRAWING NO. S-10
SHEET NO.



BRIDGE RAIL NOTES:

THE 3-TUBE CURB MOUNTED BRIDGE RAIL HAS BEEN EVALUATED AT TEST LEVEL 4 (TL-4) AND COMPLIES WITH MASH 2016.

CONCRETE FOR THE CURB AND ENDBLOCK SHALL BE CLASS PCC04462. THE COMPRESSIVE STRENGTH OF THE CONCRETE, BASED ON TEST CYLINDERS, SHALL BE NO LESS THAN 4,000 PSI PRIOR INSTALLING THE EPOXY GROUT BELOW THE BASEPLATES. PRIOR TO ALLOWING THE RAIL, CURB AND ENDBLOCK TO BE PLACED IN SERVICE FOR THE PROTECTION OF VEHICULAR TRAFFIC, THE COMPRESSIVE STRENGTH OF THE GROUT, BASED ON STRENGTH GAIN OVER TIME LISTED IN THE GROUT MANUFACTURER'S DATA SHEET, SHALL BE NO LESS THAN 5,000 PSI.

THE REINFORCEMENT SHALL CONFORM TO ASTM A615, GRADE 60 AND BE HOT-DIP GALVANIZED.

HOLLOW STRUCTURAL SHAPES SHALL CONFORM TO ASTM A500 GRADE C OR ASTM A501, GRADE B.

ALL OTHER STEEL SHALL CONFORM TO ASTM A572, GRADE 50 UNLESS NOTED OTHERWISE.

THE SILICON CONTENT OF THE STEEL USED FOR THE EXPOSED MEMBERS AND PLATE COMPONENTS SHALL FALL WITHIN THE RANGE OF 0 TO 0.04% OR 0.15% TO 0.25%.

ALL STEEL SHAPES, PLATES AND HOLLOW STRUCTURAL SECTIONS SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123.

THE ANCHOR BOLTS SHALL CONFORM TO ASTM F1554, GRADE 105. THE NUTS SHALL CONFORM TO ASTM A563, GRADE DH. THE WASHERS SHALL CONFORM TO ASTM F436. THE BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM F2329 OR ASTM B695, CLASS 55.

ALL HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM F3125 GRADE A325, TYPE 1. NUTS SHALL CONFORM TO ASTM A563, GRADE DH. CIRCULAR, FLAT, HARDENED STEEL WASHERS SHALL CONFORM TO ASTM F436. THE BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM F2329 OR ASTM B695, CLASS 55.

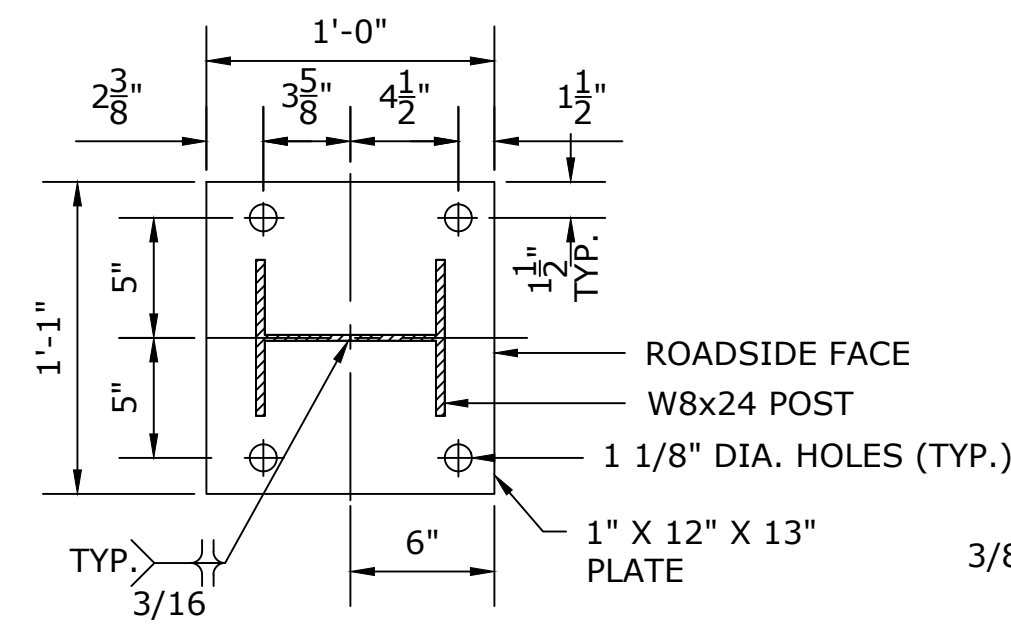
DOME HEAD BOLTS WITH WRENCH SLOTS USED FOR THE TOP RAIL SHALL CONFORM TO ASTM F3125 GRADE A325, TYPE 1 OR ASTM A449, GRADE 1. SUBSTITUTION OF DOME HEAD BOLTS WITH BOLTS MEETING DIFFERENT MATERIAL REQUIREMENTS IS NOT PERMITTED. NUTS SHALL CONFORM TO ASTM A563, GRADE DH. CIRCULAR, FLAT, HARDENED STEEL WASHERS SHALL CONFORM TO ASTM F436. THE BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM F2329 OR ASTM B695, CLASS 55.

RAIL ELEMENTS SHALL BE FABRICATED TO THE HORIZONTAL AND VERTICAL ALIGNMENT OF THE STRUCTURE. POSTS SHALL BE INSTALLED NORMAL TO GRADE IN THE LONGITUDINAL DIRECTION AND VERTICAL IN THE TRANSVERSE DIRECTION.

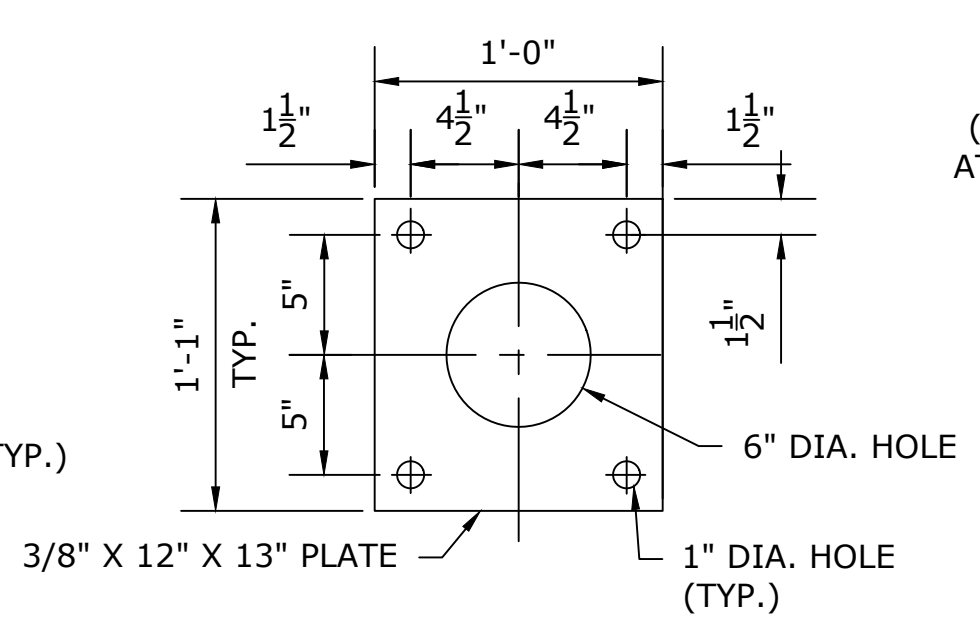
ALL BRIDGE RAIL MATERIALS, INCLUDING ANCHOR PLATES, ANCHOR BOLTS, CONCRETE INSERTS, HARDWARE AND EPOXY GROUT, SHALL BE PAID FOR UNDER THE ITEM "3-TUBE CURB MOUNTED BRIDGE RAIL".

NOTE:
CURB REINFORCEMENT AND ANCHORAGE TO BE SPACED AS TO NOT CONFLICT WITH REINFORCEMENT IN HEADWALLS.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: EH	TOWN OF AVON	SIGNATURE/ BLOCK: 	PROJECT TITLE: REPLACEMENT OF TILLOTSON ROAD BRIDGE OVER THOMPSON BROOK	TOWN: AVON	PROJECT NO. 9004-0015
		CHECKED BY: MG					
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 4/30/2026	Filename: SB_CP_3572_BRIDGE RAIL DETAILS 1.DWG		



BASE PLATE DETAIL
SCALE: 1 1/2" - 1'-0"



ANCHOR PLATE DETAIL
SCALE: 1 1/2" - 1'-0"

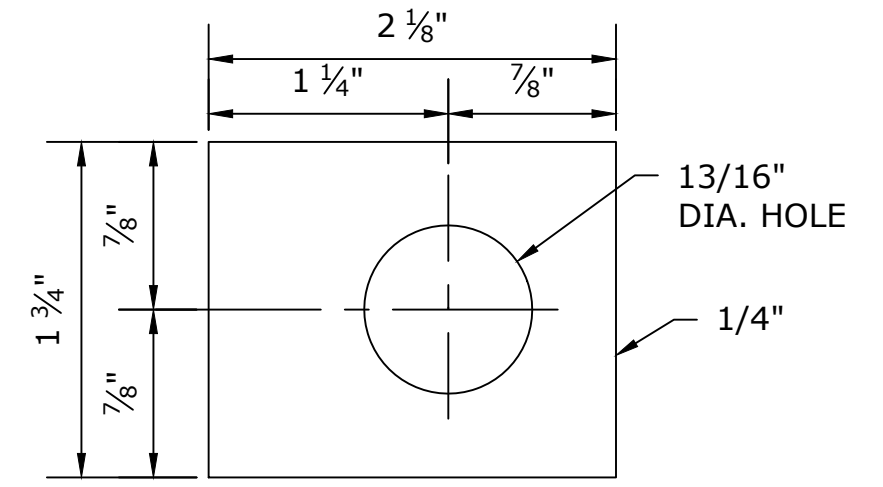
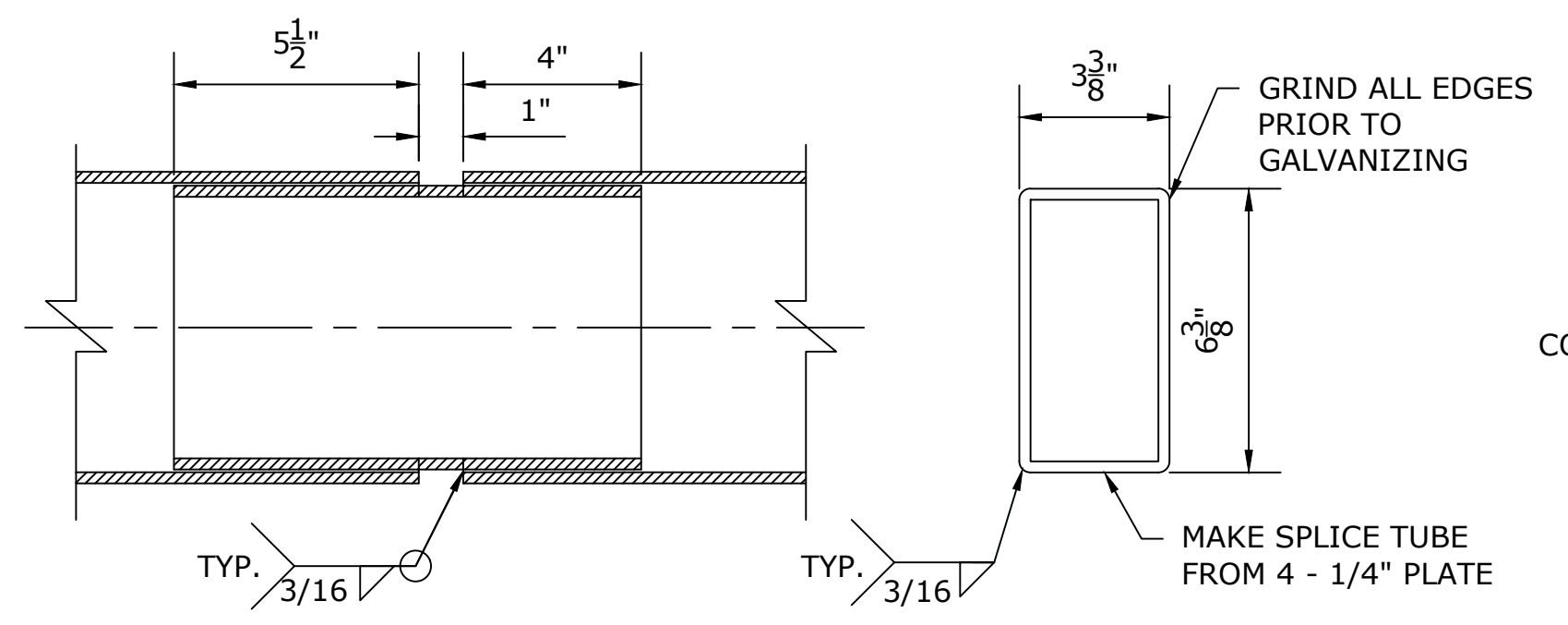
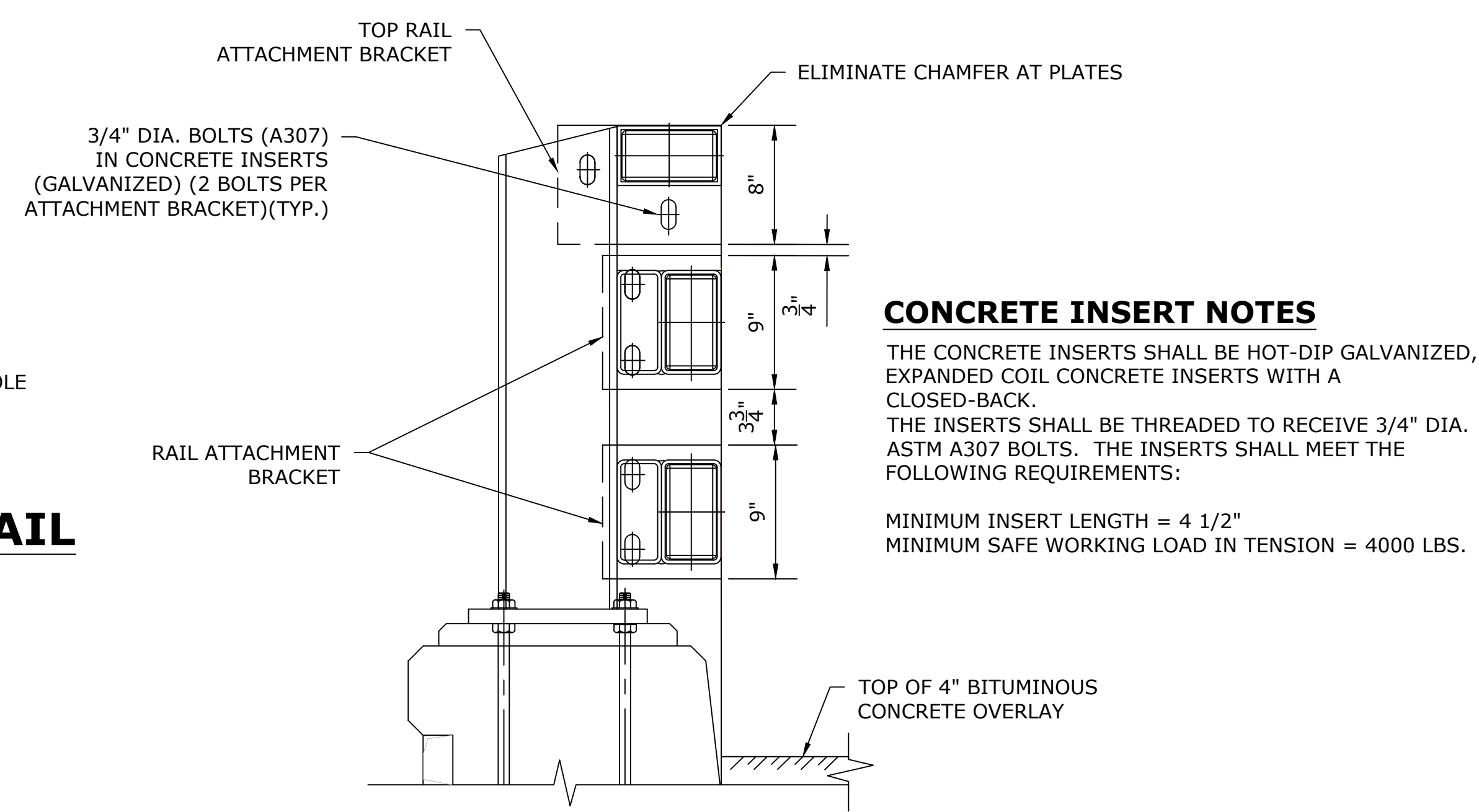


PLATE WASHER "C"
NOT TO SCALE

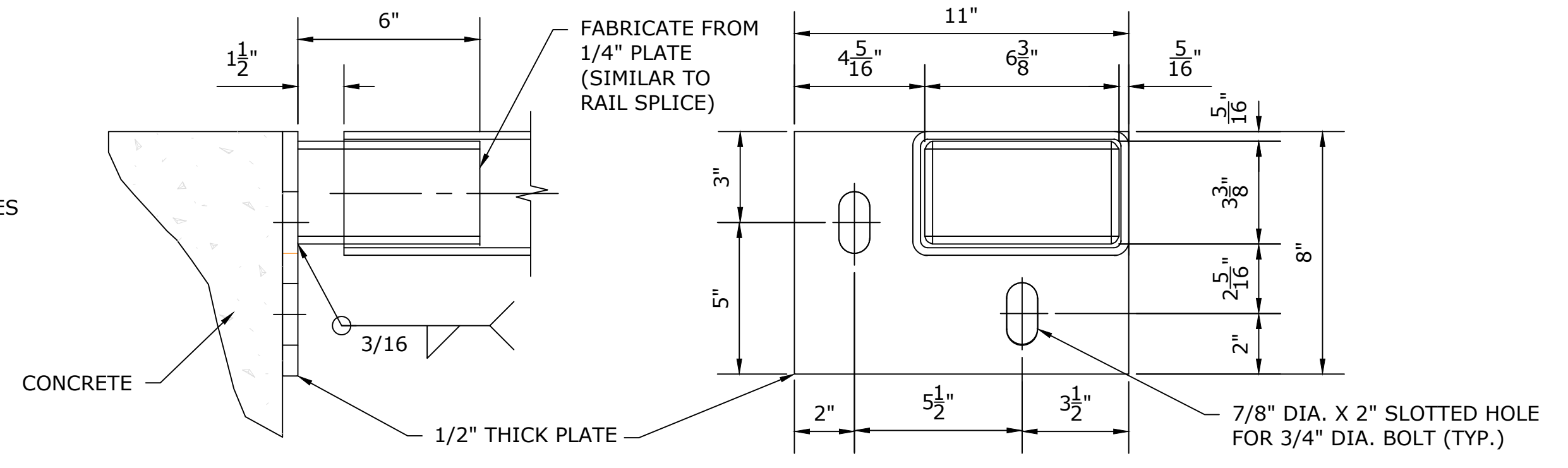


RAIL SPLICE DETAILS
SCALE: 3" - 1'-0"

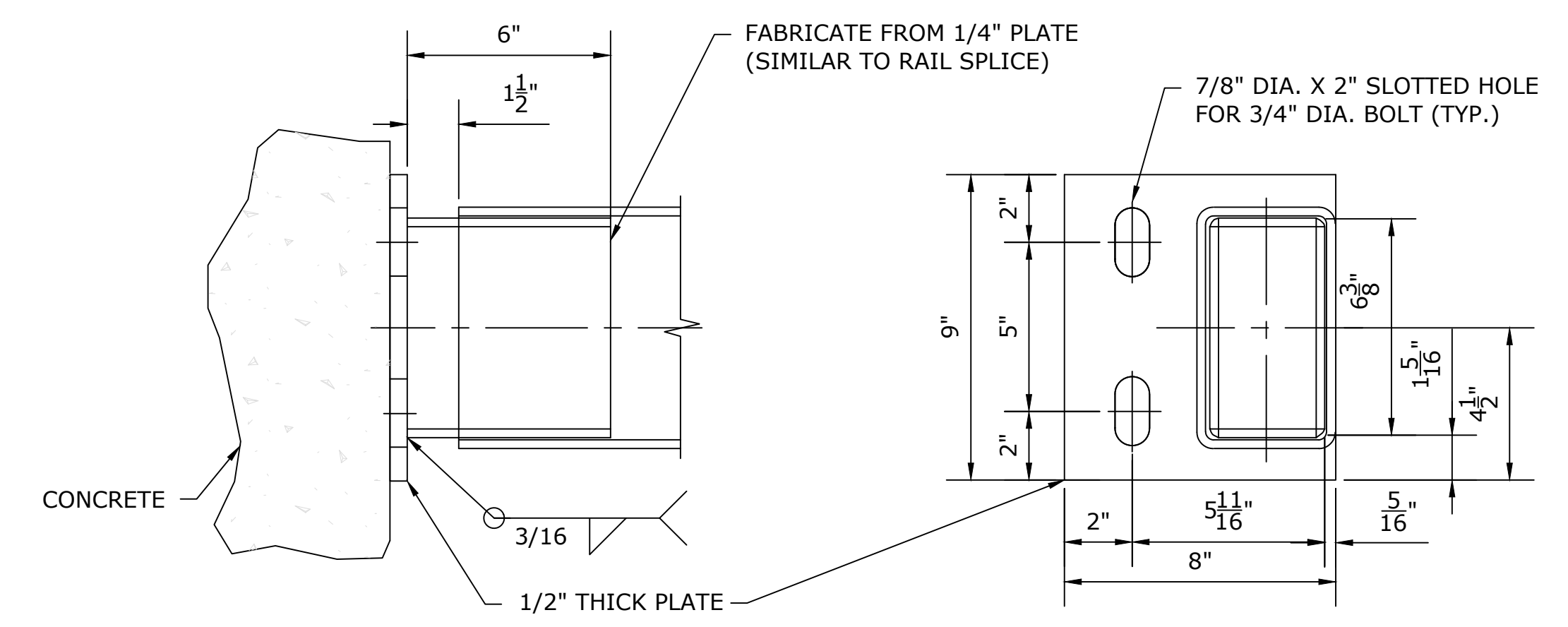


ELEVATION B
SCALE: 1 1/2" - 1'-0"

CONCRETE INSERT NOTES
THE CONCRETE INSERTS SHALL BE HOT-DIP GALVANIZED, EXPANDED COIL CONCRETE INSERTS WITH A CLOSED-BACK.
THE INSERTS SHALL BE THREADED TO RECEIVE 3/4" DIA. ASTM A307 BOLTS. THE INSERTS SHALL MEET THE FOLLOWING REQUIREMENTS:
MINIMUM INSERT LENGTH = 4 1/2"
MINIMUM SAFE WORKING LOAD IN TENSION = 4000 LBS.



TOP RAIL ATTACHMENT BRACKET
SCALE: 3" - 1'-0"



RAIL ATTACHMENT BRACKET
SCALE: 3" - 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 4/30/2026

DESIGNER/DRAFTER: EP	TOWN OF AVON
CHECKED BY: MG	
SCALE AS NOTED	Filename: SB_CP_3572_BRIDGE RAIL DETAILS 2.DWG

SIGNATURE/
BLOCK:

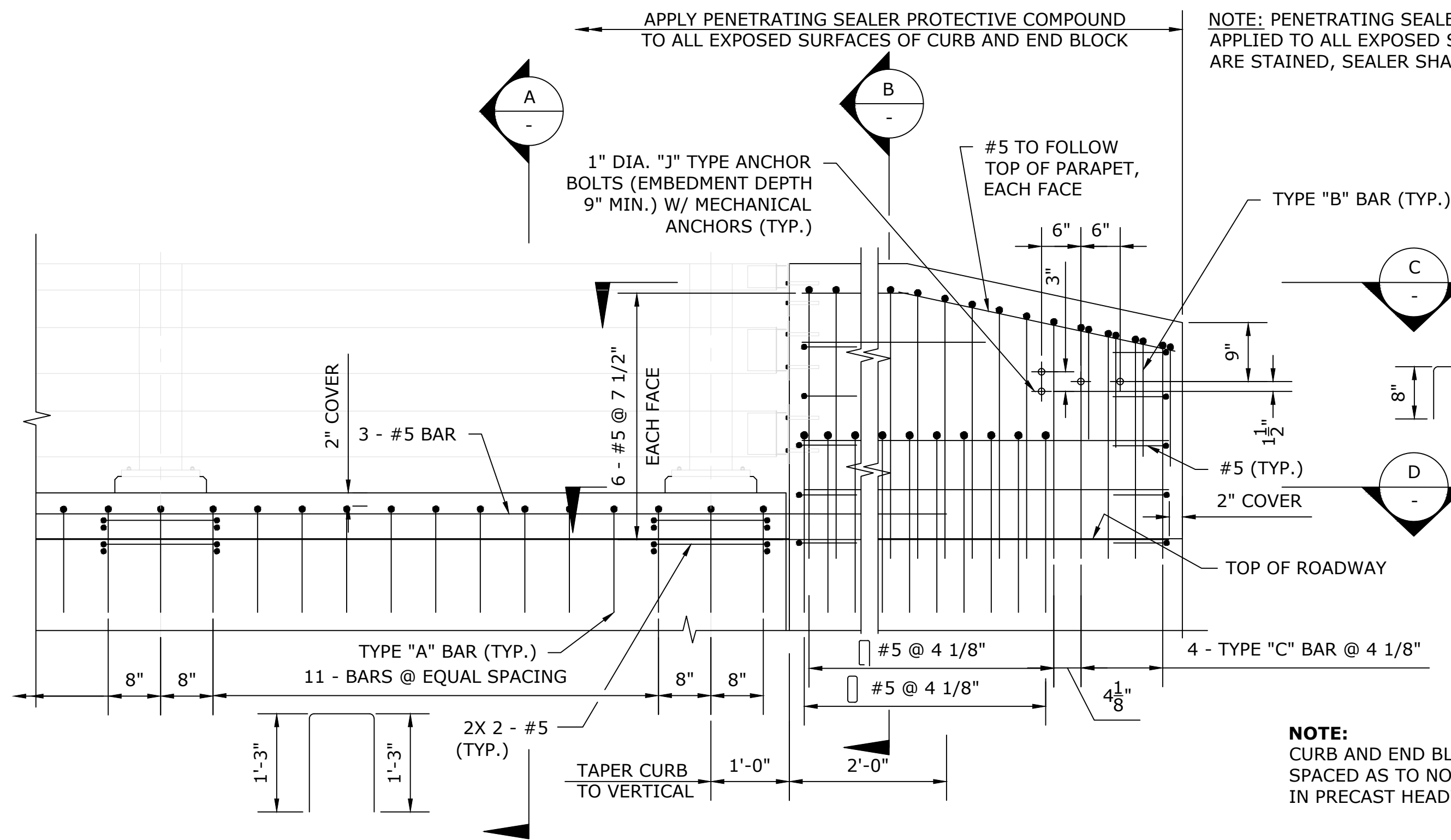


919 MIDDLE STREET
MIDDLETOWN, CT 06457

PROJECT TITLE: REPLACEMENT OF TILLOTSON ROAD BRIDGE OVER THOMPSON BROOK

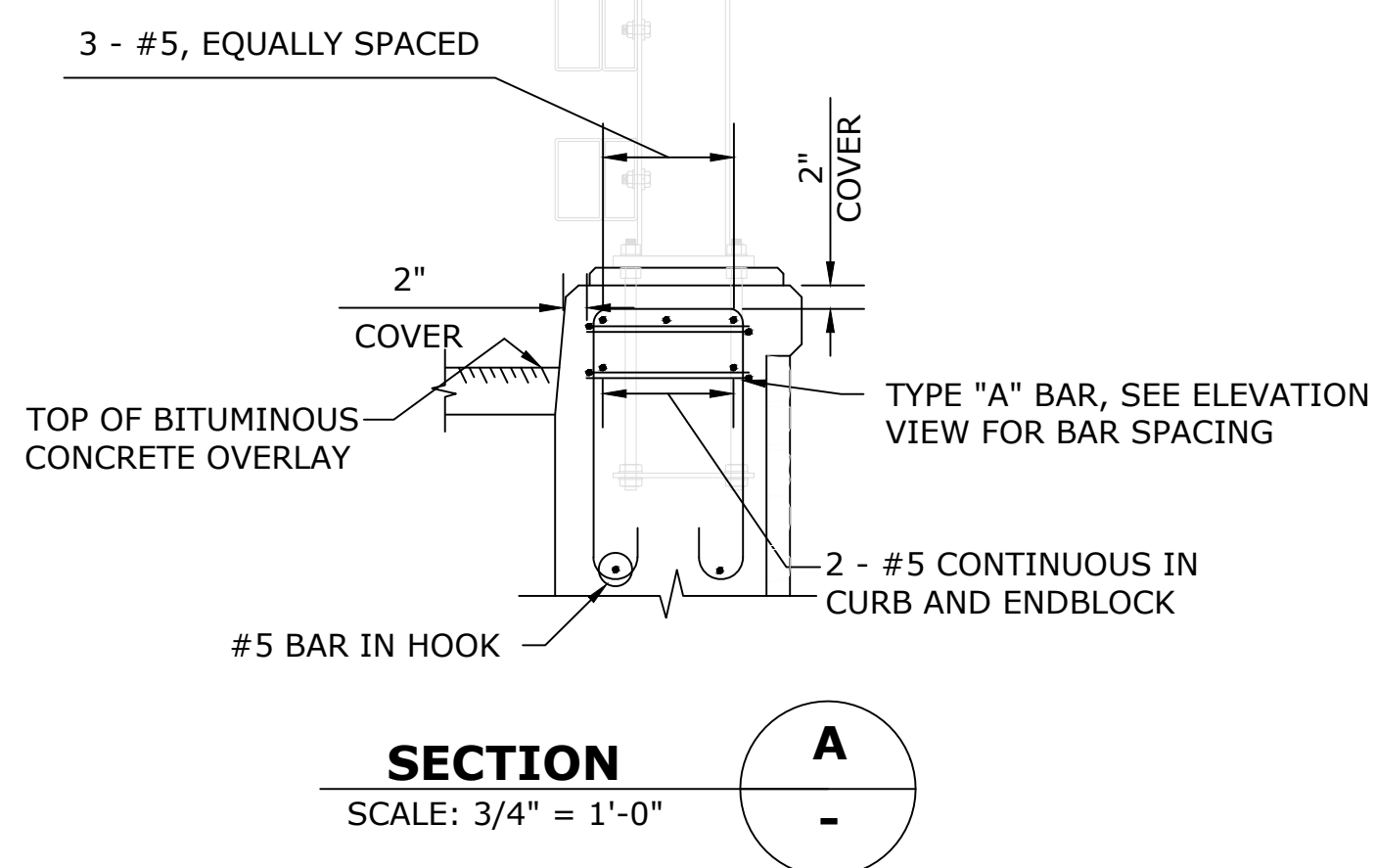
TOWN: AVON
DRAWING TITLE: BRIDGE RAIL DETAILS - 2

PROJECT NO. 9004-0015
DRAWING NO. S-12
SHEET NO.

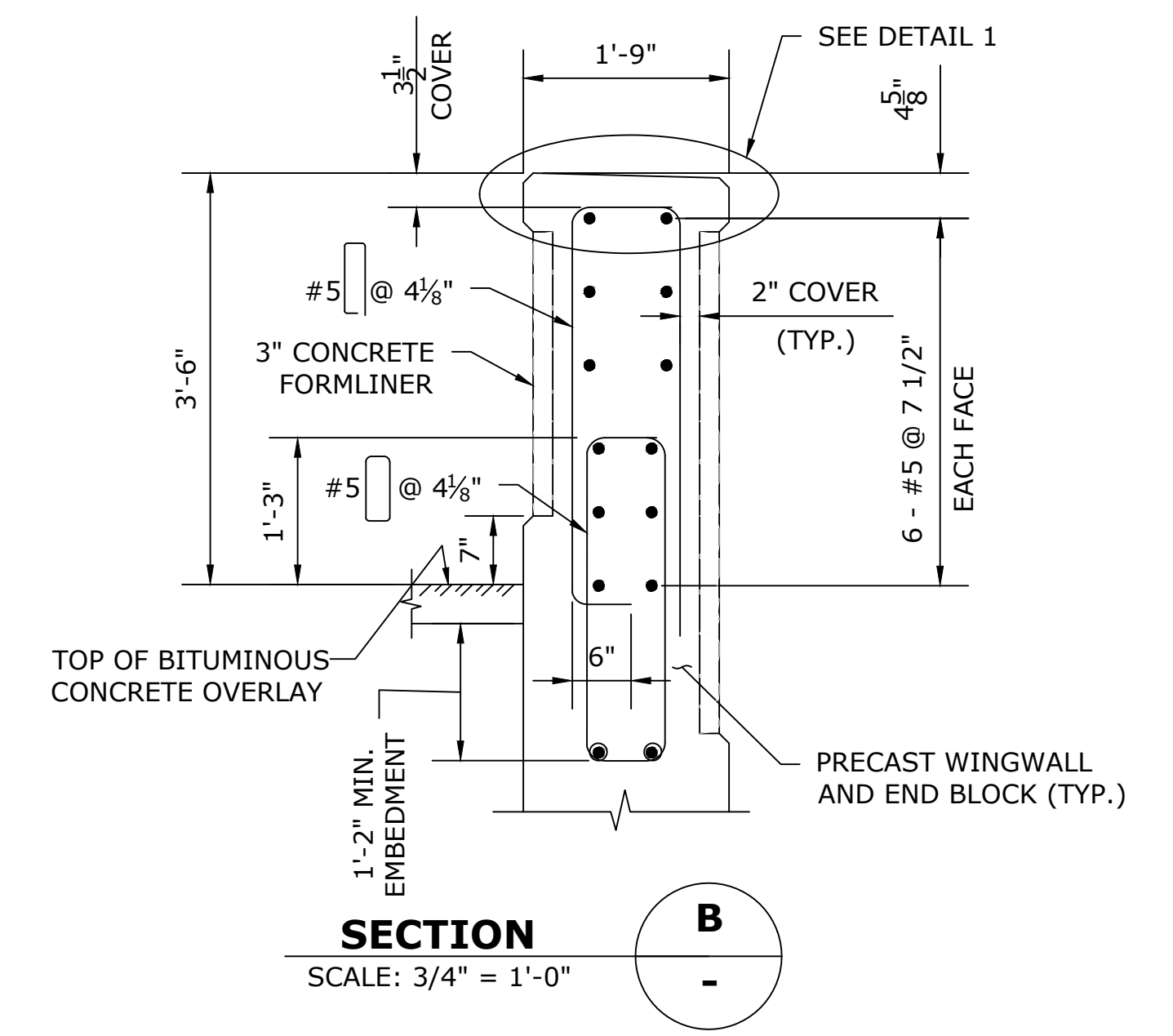


ELEVATION - CURB AND ENDBLOCK REINFORCEMENT
SCALE: 3/4" = 1'-0"

NOTE: PENETRATING SEALER PROTECTIVE COMPOUND SHALL BE APPLIED TO ALL EXPOSED SURFACES. IF FORM LINER SURFACES ARE STAINED, SEALER SHALL NOT BE USED ON THOSE AREAS.



SECTION A
SCALE: 3/4" = 1'-0"



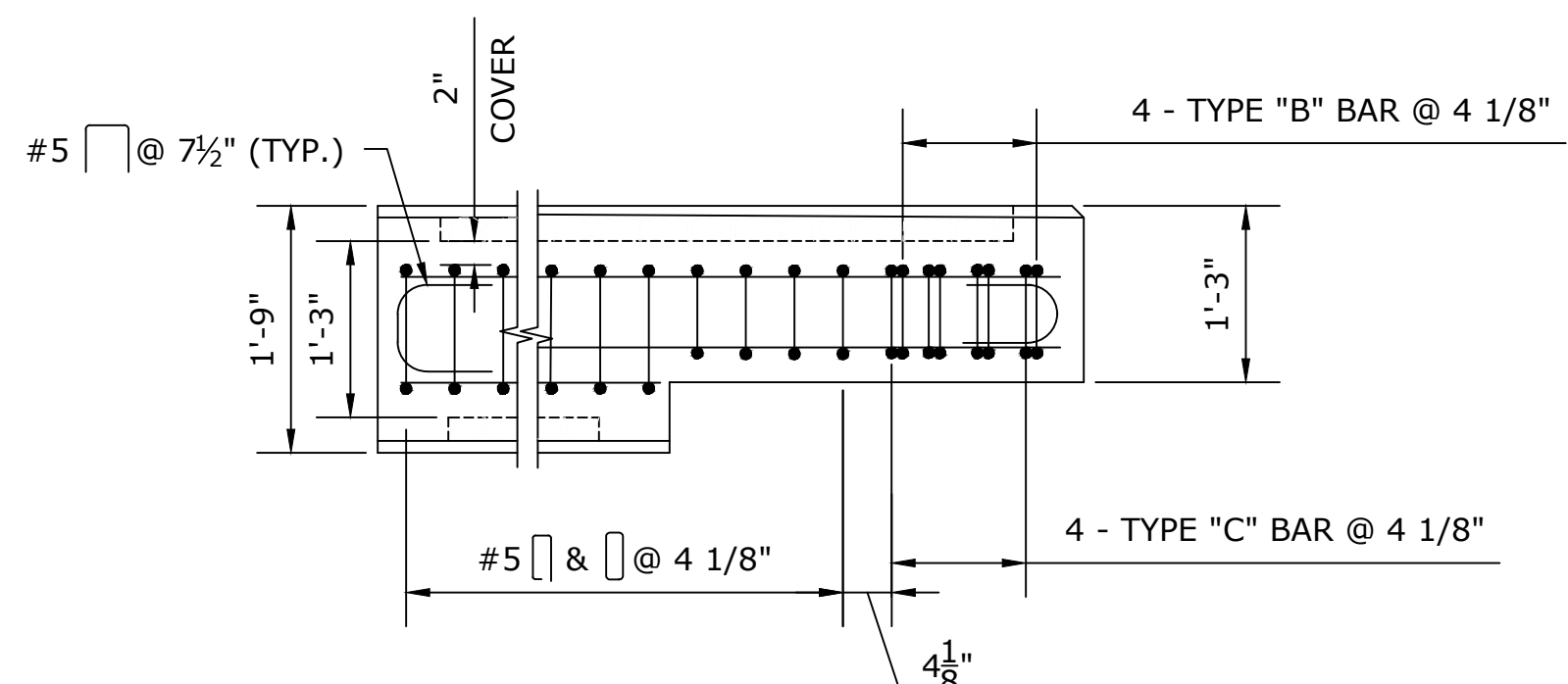
SECTION B
SCALE: 3/4" = 1'-0"

NOTE: CURB AND ENDBLOCK REINFORCEMENT TO BE SPACED AS TO NOT CONFLICT WITH REINFORCEMENT IN PRECAST HEADWALL AND WINGWALLS.

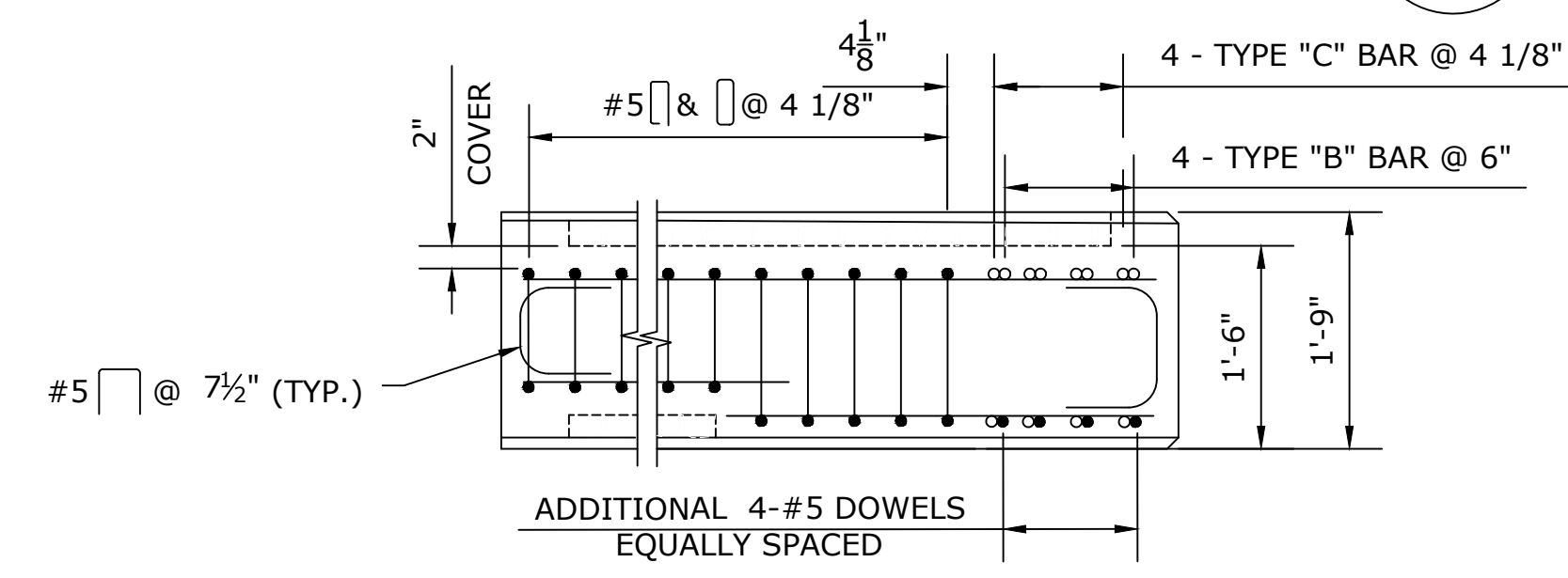
REINFORCEMENT AND SPLICE NOTES

1. THE SPLICE LENGTH FOR THE LONGITUDINAL REINFORCEMENT IN THE CURB AND ENDBLOCK SHALL BE AS FOLLOWS UNLESS DIMENSIONED OTHERWISE:

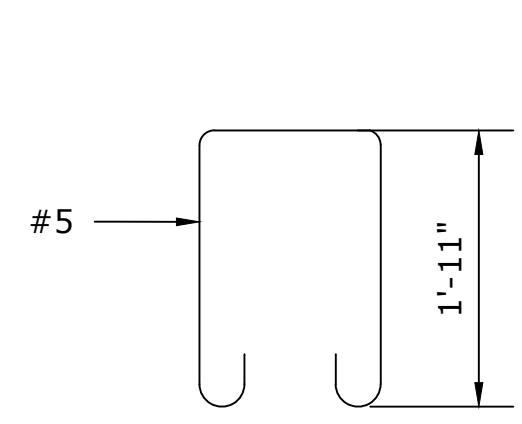
BAR SIZE	SPLICE LENGTH
#5	2'-4"
2. THE SPLICES SHALL BE ALTERNATED SO THAT 50% OR LESS OF THE LONGITUDINAL BARS ARE SPLICED AT THE SAME LOCATION.



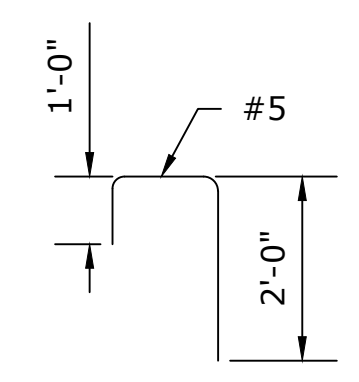
PLAN SECTION - ENDBLOCK REINFORCEMENT C
SCALE: 3/4" = 1'-0"



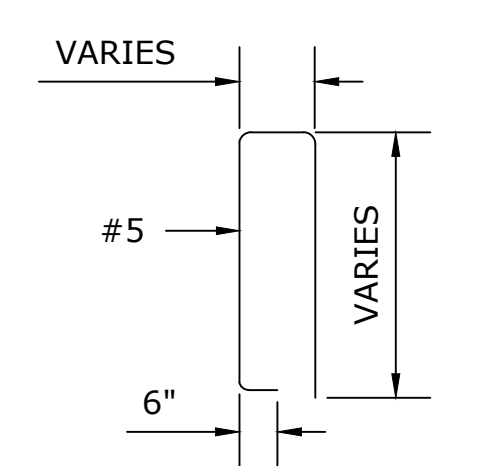
PLAN SECTION - ENDBLOCK REINFORCEMENT D
SCALE: 3/4" = 1'-0"



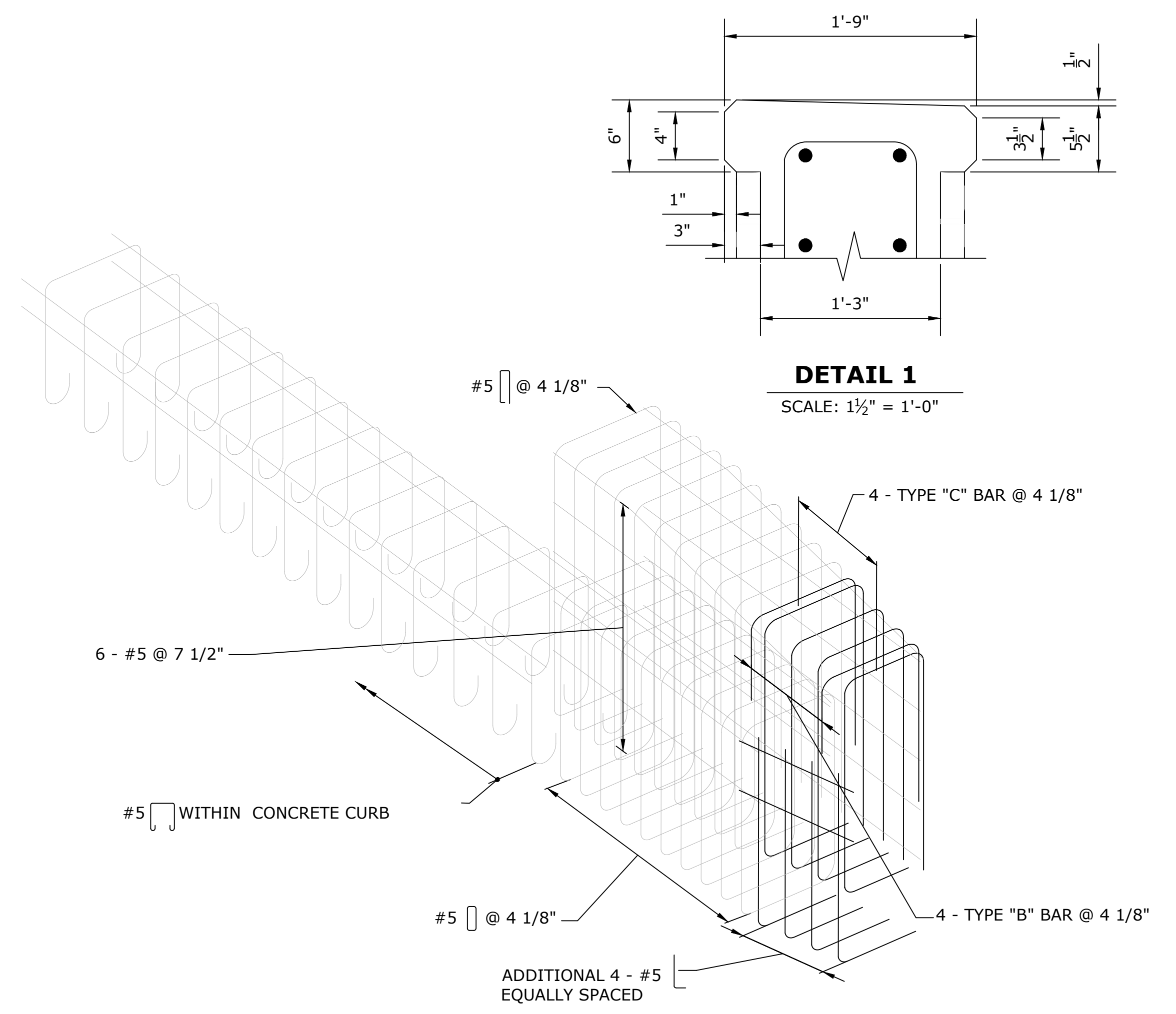
TYPE "A" BAR
SCALE: NTS



TYPE "B" BAR
SCALE: NTS

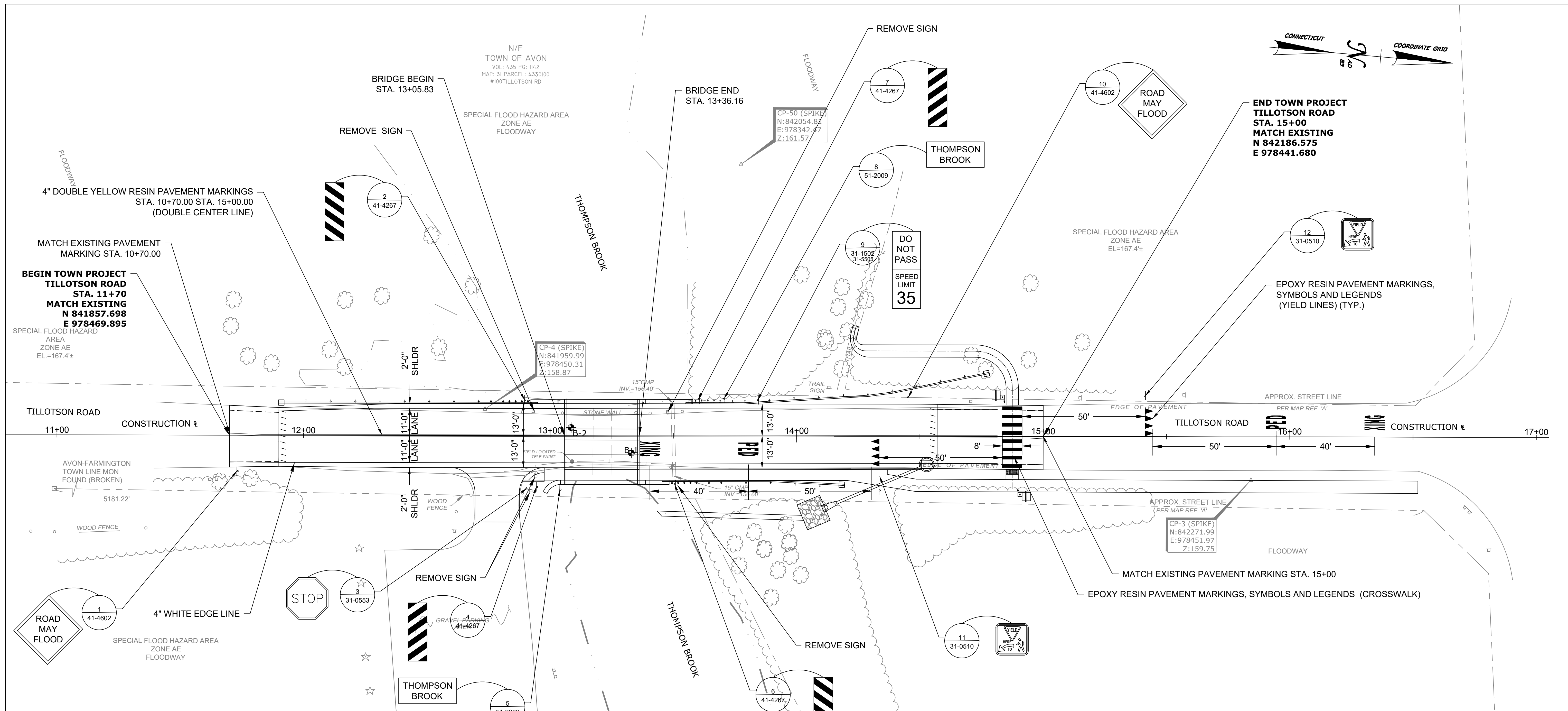


TYPE "C" BAR
SCALE: NTS



ISOMETRIC VIEW - REINFORCEMENT DETAIL AT ENDBLOCK
SCALE: NTS

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: EP CHECKED BY: MG SCALE AS NOTED	TOWN OF AVON Filename: SB_CP_3572_END BLOCK DETAILS.DWG	SIGNATURE/BLOCK: 919 MIDDLE STREET MIDDLETOWN, CT 06457	PROJECT TITLE: REPLACEMENT OF TILLOTSON ROAD BRIDGE OVER THOMPSON BROOK	TOWN: AVON	PROJECT NO. 9004-0015 DRAWING NO. S-13 SHEET NO.
REV. DATE REVISION DESCRIPTION SHEET NO. Plotted Date: 4/30/2026	END BLOCK DETAILS						



PAVEMENT MARKING NOTES:

1. FINAL PAVEMENT MARKINGS ARE TO BE EPOXY RESIN UNLESS OTHERWISE NOTED.
2. PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH CTDOT TRAFFIC STANDARD SHEETS TR-1210-04 "PAVEMENT MARKING LINES AND SYMBOLS" AND TR-1210_08 "PAVEMENT MARKINGS FOR NON FREEWAYS" EXCEPT AS OTHERWISE DIMENSIONED OR NOTED ON PLANS.
3. ALL PAVEMENT MARKINGS ON TOWN ROADS SHALL BE MAINTAINED BY THE TOWN OF NEW MILFORD. ALL PAVEMENT MARKINGS ON STATE ROADS SHALL BE MAINTAINED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION.
4. PAVEMENT MARKINGS ARE TO BE INSTALLED THROUGHOUT THE PROJECT TO THE LIMITS OF PAVEMENT MARKINGS OR AS DIRECTED BY THE ENGINEER.
5. MID-BLOCK CROSSWALKS ARE CROSSWALKS LOCATED MORE THAN 50 FEET FROM A SIGNALIZED OR UNSIGNALIZED INTERSECTION. YIELD LINES ASSOCIATED WITH MIDBLOCK CROSSWALKS SHALL BE INSTALLED AND SHOULD BE LOCATED 20 TO 50 FEET IN ADVANCE OF THE NEAREST CROSSWALK LINE OR AS DIRECTED BY THE ENGINEER. WHERE A YIELD LINE EXISTS ON AN APPROACH TO A CROSSWALK, THE APPROPRIATE "YIELD TO PEDESTRIANS" SIGN IS REQUIRED.

SIGNING NOTES:

1. SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH CTDOT TRAFFIC STANDARD SHEETS TR-1208_01 "SIGN PLACEMENT AND RETROREFLECTIVE STRIP DETAILS" AND TR-1208_02 "METAL SIGN POSTS AND SIGN MOUNTING DETAILS" EXCEPT AS OTHERWISE NOTED ON THE PLANS.
2. THE TOWN SHALL MAINTAIN ALL SIGNS ON TOWN ROADS.
3. ALL EXISTING SIGNS OUTSIDE THE LIMITS OF SIGNING ARE TO REMAIN UNLESS OTHERWISE INDICATED ON THE PLAN OR DIRECTED BY THE ENGINEER.
4. EXACT LOCATIONS OF SIGNS TO BE VERIFIED BY THE ENGINEER.
5. SIGNS SHALL BE AT LEAST 10- FEET FROM UTILITY POLES, UNLESS OTHERWISE DIRECTED.

LEGEND:

- SINGLE POST-MOUNTED SIGN
- LOCATION NO. SIGN NO.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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DESIGNER/DRAFTER: BS
 CHECKED BY: SG
 SCALE IN FEET
 0 20 40
 1"=20'

TOWN OF AVON
 FILENAME: 3572 SIGNING & PAVEMENT MARKING PLAN.DWG

SIGNATURE/BLOCK:

 919 MIDDLE STREET
 MIDDLETOWN, CT 06457

PROJECT TITLE:
**REPLACEMENT OF
 TILLOTSON ROAD BRIDGE
 OVER THOMPSON BROOK**

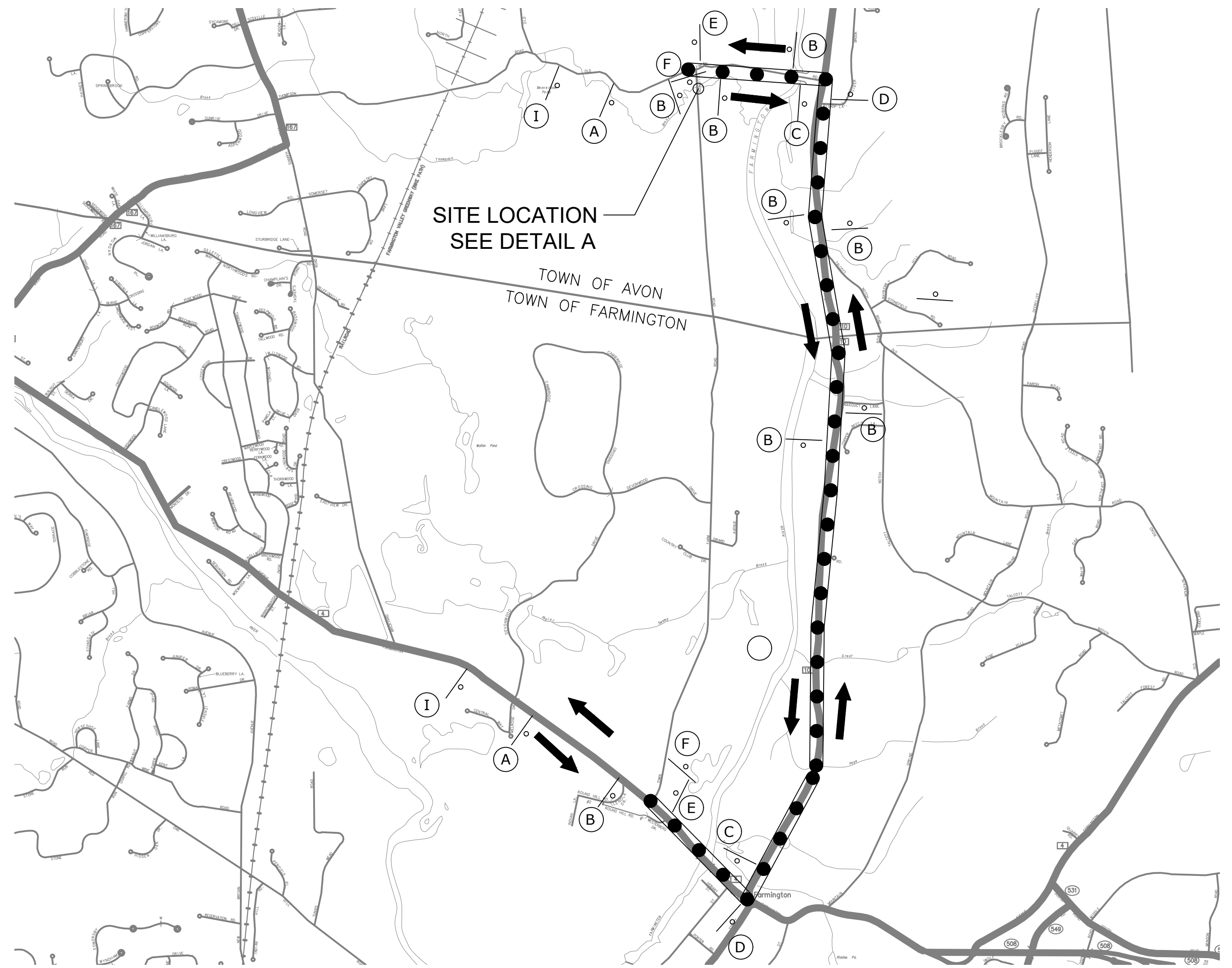
TOWN: AVON
 DRAWING TITLE:
**SIGN AND PAVEMENT
 MARKING PLAN**

PROJECT NO. 9004-0015
 DRAWING NO. SMP-01
 SHEET NO.

SIGN SUMMARY*					
SIGN	DESCRIPTION	SIGN NUMBER	SIGN SIZE	QUANTITY	TOTAL AREA
(A)	ROAD CLOSED X MILES AHEAD LOCAL TRAFFIC ONLY	80-9077	60"x30"	2	25.00
(B)	DETOUR TILLOTSON ROAD ↑	80-9707	24"x12"	8	16.00
		80-9916	48"x10"	8	26.67
		51-2625	21"x15"	8	17.50
(C)	DETOUR TILLOTSON ROAD →	80-9707	24"x12"	2	4.00
		80-9916	48"x10"	2	6.67
		51-2626(R)	21"x15"	2	4.38
(D)	DETOUR TILLOTSON ROAD ←	80-9707	24"x12"	2	4.00
		80-9916	48"x10"	2	6.67
		51-2626(L)	21"x15"	2	4.38
(E)	END DETOUR	80-9708	24"x18"	2	6.00
(F)	ROAD CLOSED TO THRU TRAFFIC	80-9081	60"x30"	2	25.00
(G)	ROAD CLOSED	80-9080	48"x30"	2	20.00
(H)*	STOP	31-0557	48"x48"	2	32.00
(I)*	CONSTRUCTION AHEAD ROAD USE RESTRICTED STATE LIABILITY LIMITED <small>GENERAL STATUTES SEC 13a-115, 13a-145 COMMISSIONER OF TRANSPORTATION</small>	80-1608	60"x42"	2	52.50
	TILLOTSON ROAD CLOSED TO THRU TRAFFIC FROM 00/00 TO 00/00	80-9079	72"x48"	2	48.00
			TOTAL	50	299

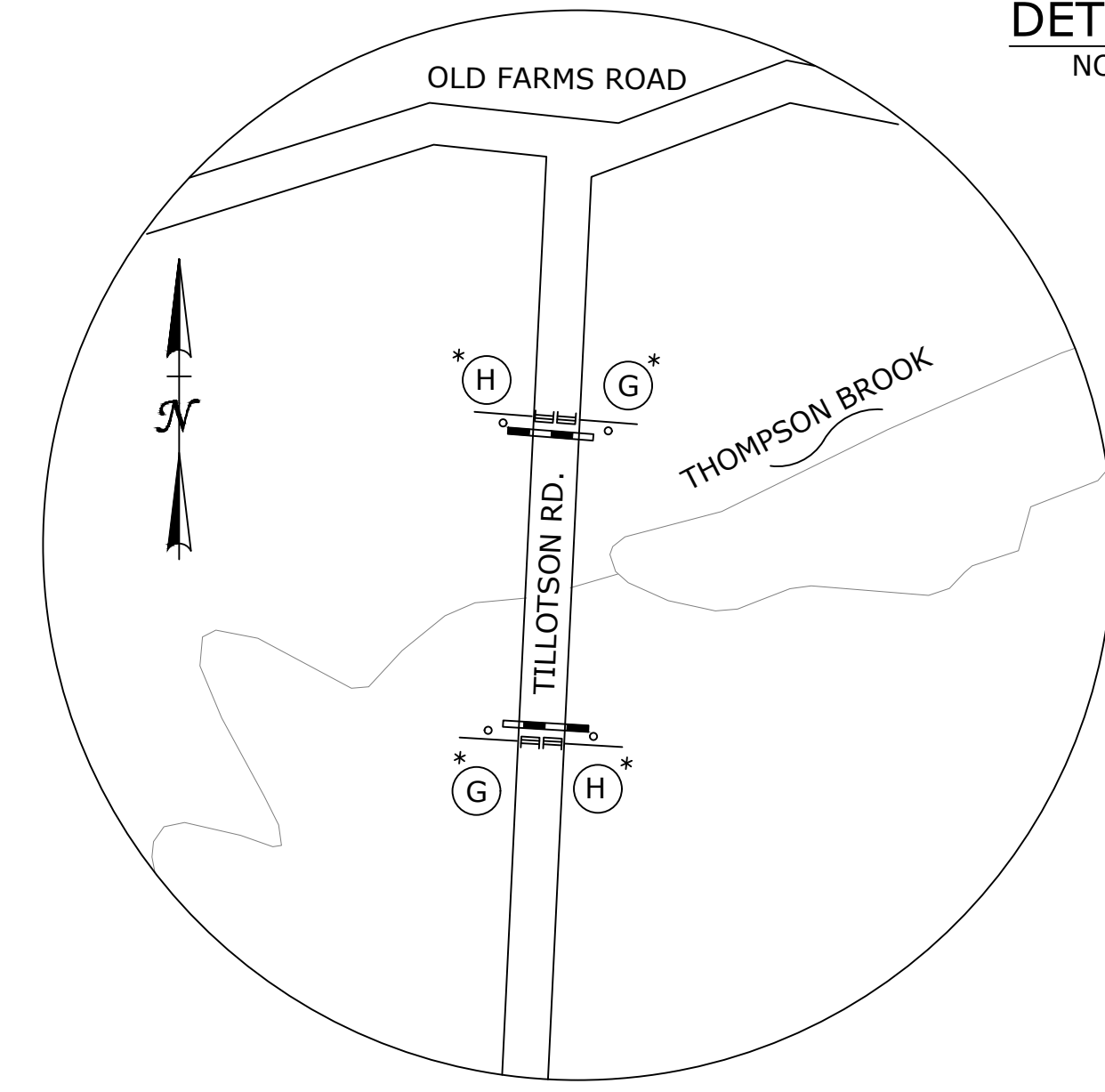
DETOUR NOTES:

- ALL EXISTING CONFLICTING SIGNS ARE TO BE COVERED OR REMOVED WHILE DETOUR IS IN EFFECT.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIAL PROVISIONS ARTICLE 1.08-PROSECUTION AND PROGRESS - LIMITATION OF OPERATIONS AND ITEM NO. 0971001A - " MAINTENANCE AND PROTECTION OF TRAFFIC."
- EXISTING SIGNS ARE TO BE RELOCATED AS NEEDED AND AS DIRECTED BY THE ENGINEER DURING CONSTRUCTION SO THAT THEY ARE IN THE APPROPRIATE LOCATION AND VISIBLE TO MOTORISTS. SOME SIGNS MAY HAVE TO BE TEMPORARILY LOCATED WITHIN THE WORK AREA. THIS WORK WILL BE PAID UNDER THE ITEM NO. 0971001A - "MAINTENANCE AND PROTECTION OF TRAFFIC."
- ALL CONSTRUCTION SIGNS SHALL BE INSTALLED ON BREAKAWAY POSTS PER CONNDOT STANDARD SHEET TR-1208_02 "METAL SIGN POSTS AND SIGN MOUNTING DETAILS" AND TR-1220_02 "CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES."
- THE LOCATIONS OF TEMPORARY SIGNS SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL BE ADJUSTED AS DIRECTED BY THE ENGINEER TO MEET FIELD CONDITIONS.
- SIGNS C AND D SHALL BE INSTALLED A MINIMUM OF 200 FEET BEFORE THE SIGNED TURN IS TO BE MADE.
- ANY EXISTING SIGNING DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT NO COST TO THE TOWN OF NEW MILFORD.
- THE DETOUR ROUTE SHALL BE IMPLEMENTED FOR THE DURATION NOTED IN THE SPECIFICATIONS.
- THE CONTRACTOR SHALL NOTIFY THE TOWNS OF AVON AND FARMINGTON, THE TOWNS OF AVON AND FARMINGTON EMERGENCY SERVICES TWO WEEKS PRIOR TO INITIATING DETOUR. INSTALL SIGN NO. 80-9079 ON TILLOTSON ROAD IN BOTH DIRECTIONS IN VICINITY OF BRIDGE TWO WEEKS PRIOR TO INITIATING DETOUR. THESE SIGNS SHALL BE REMOVED ONCE THE DETOUR IS IN EFFECT.
- ACCESS AND EGRESS TO ALL STREETS AND DRIVES MUST BE MAINTAINED AT ALL TIMES.
- THE CONTRACTOR SHALL INSTALL THE TEMPORARY PRECAST CONCRETE BARRIER CURB ACROSS TILLOTSON ROAD TO PREVENT PEDESTRIAN ACCESS TO THE CONSTRUCTION AREA. THE BARRIER SHALL REMAIN IN PLACE AT ALL TIMES THROUGHOUT THE DETOUR.



SITE LOCATION
SEE DETAIL A

DETOUR PLAN
NOT TO SCALE



DETAIL 'A'
NOT TO SCALE

LEGEND

- DETOUR ROUTE
- CONSTRUCTION BARRICADE TYPE III WITH SIGNS "H" AND "I" ATTACHED
- POST MOUNTED CONSTRUCTION SIGN (1 OR 2 POSTS)
- SIGN
- BARRICADE WARNING LIGHTS - HIGH INTENSITY
- TEMPORARY PRECAST CONCRETE BARRIER CURB
- TILLOTSON ROAD CLOSURE DETOUR ROUTE

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 4/30/2026	DESIGNER/DRAFTER: BS	SIGNATURE/ BLOCK: 919 MIDDLE STREET MIDDLETOWN, CT 06457	PROJECT TITLE: REPLACEMENT OF TILLOTSON ROAD BRIDGE OVER THOMPSON BROOK	TOWN: AVON	PROJECT NO. 9004-0015
					CHECKED BY: SG			TOWN OF AVON	DRAWING NO. MPT-01
					SCALE AS NOTED	Filename: MPT-01- DETOUR SIGNING PLAN.DWG		DRAWING TITLE: DETOUR SIGNING PLAN	SHEET NO.

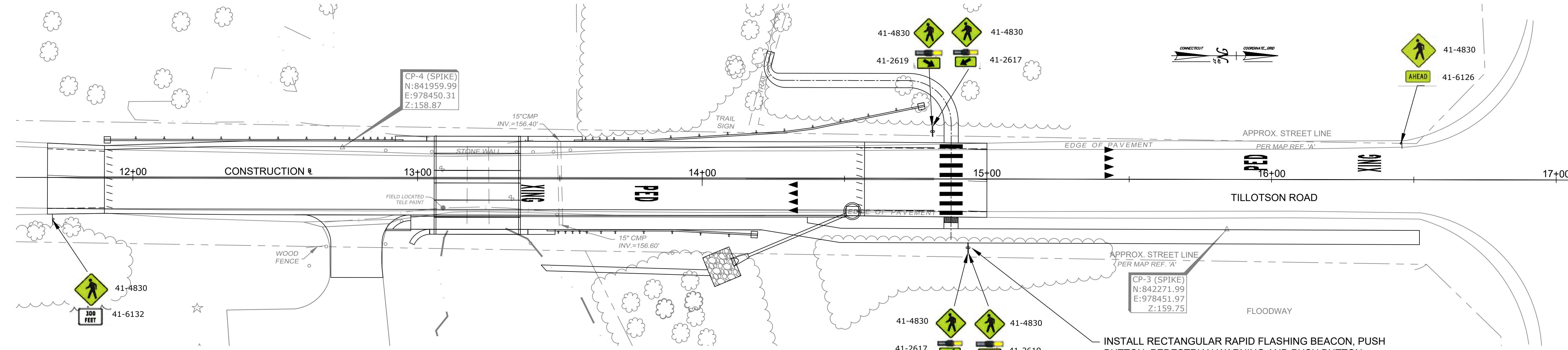
		MOVEMENT DIAGRAM																																			
		PHASE 1				PHASE 2				PHASE 3				PHASE 4				PHASE 5				PHASE 6				PHASE 7				PHASE 8							
		FLASH	GRN	CL	CL	GRN	CL	CL	CL	GRN	CL	CL	CL	GRN	CL	CL	CL	GRN	CL	CL	CL	GRN	CL	CL	CL	GRN	CL	CL	CL	GRN	CL	CL	CL	GRN	CL	CL	CL
F A C E #																																					
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MIN GAP																																					
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TECHNICAL NOTES		OFFICE RECORD	
RECTANGULAR RAPID FLASHING BEACON TO FLASH FOR 16 SECONDS UPON ACTUATION. (9-17 SECONDS ADJUSTABLE).	REV #	TIR # N/A	REV # N/A
TIMER SHOULD RESET UPON EACH ACTUATION.			
SPEECH MESSAGE "WARNING LIGHTS ARE FLASHING" SHALL BE SPOKEN TWICE UPON PUSH BUTTON ACTUATION			

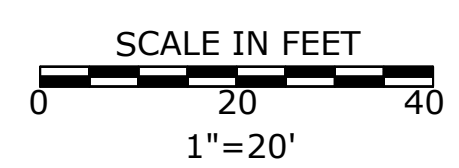


CONSTRUCTION NOTES

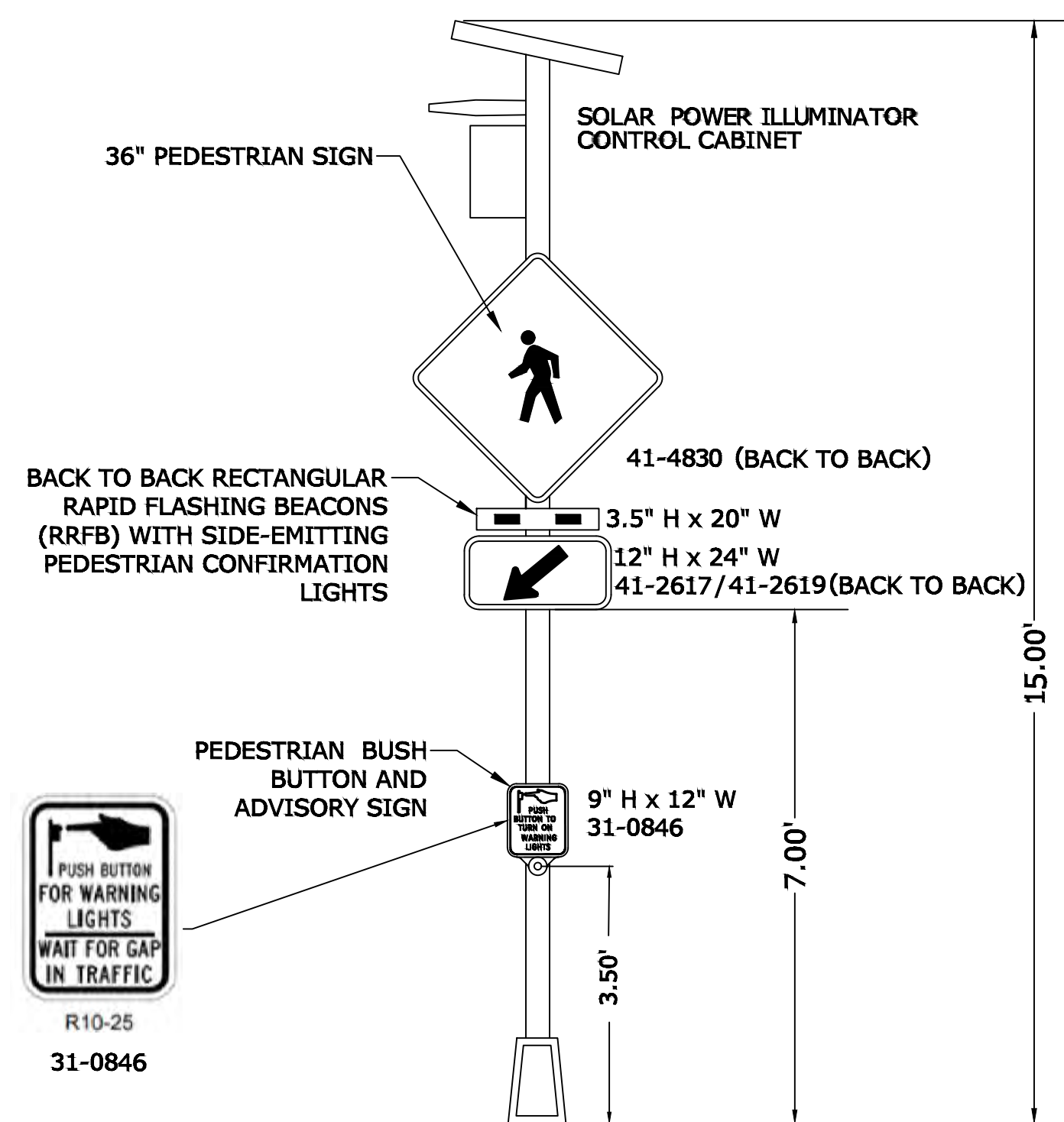
- ALL MATERIAL AND CONSTRUCTION METHODS SHALL CONFORM TO THE FOLLOWING CURRENT D.O.T. DOCUMENTS, WHICH CAN BE ACCESSED ON THE D.O.T. WEBSITE
 - STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION (FORM 819).
 - SUPPLEMENTAL SPECIFICATIONS TO FORM 819.
 - SPECIAL PROVISIONS TO FORM 819.
 - CTDOT STANDARD DRAWINGS.
- CONTRACTOR TO STAKE ALL R.O.W. PRIOR TO EXCAVATION.
- ALL TRAFFIC SIGNAL EQUIPMENT IS NEW.
- SEE SPECIAL PROVISION ITEM #1117111-A FOR RECTANGULAR RAPID FLASHING BEACON (RRFB) TYPE B. INSTALL AS SHOWN.
- INSTALL FOUNDATION AND PEDESTAL WITH PEDESTRIAN PUSHBUTTON AND SIGN, ADJACENT TO ACCESSIBLE RAMP LANDING AREA.
- THE LOCATION OF TRAFFIC SIGNAL FOUNDATIONS WHEN IN OR ADJACENT TO SIDEWALKS SHALL BE VERIFIED PRIOR TO INSTALLATION TO PROVIDE A FREE PATH OF NOT LESS THAN 4 FEET. IF A MINIMUM OF 4 FOOT FREE PATH IS UNAVAILABLE NOTIFY THE ENGINEER OF THE TOWN OF TRUMBULL.
- COORDINATE WITH UTILITY COMPANY REPRESENTATIVE LISTED IN SPECIAL PROVISION, 1.07 - LEGAL RELATIONS AND RESPONSIBILITIES.
- ANY PROPOSED REVISIONS TO THE LOCATION OF THE APPURTENANCES SHOWN ON THE PLAN MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE TOWN OF AVON.
- RECTANGULAR RAPID FLASHING BEACON TO BE PEDESTRIAN ACTUATED, SOLAR POWERED, AND WIRELESS ACTIVATED.
- RECTANGULAR RAPID FLASHING BEACON TO BE INSTALLED ON 15' PEDESTAL.
- ALL RRFB EQUIPMENT AND HARDWARE SHALL BE PAINTED BLACK BY THE MANUFACTURER. THE COLOR SHALL BE AMS-STD-595 COLOR NO. 37038



- NOTE:**
- TOWN OF AVON TO MAINTAIN ALL SIGNS AND PAVEMENT MARKINGS ON TILLOTSON ROAD.
 - RECTANGULAR RAPID FLASHING BEACON (RRFB) TO BE ACTIVATED BY PEDESTRIAN PUSHBUTTONS.
 - RRFB SHALL MEET THE FLASHING REQUIREMENTS OF THE MUTCD AND THE FHWA INTERIM APPROVAL AND REMIAN ACTIVATED FOR A MINIMUM OF 16 SECONDS TO ALLOW PEDESTRIAN CROSSING OF THE FULL WIDTH OF TILLOTSON ROAD.
 - PUSH BUTTONS TO BE INSTALLED WITH " PUSH BUTTION TO TURN ON WARNING LIGHTS" SIGN (CTDOT SIGN NO. 31-0846).
 - NEW PAVEMENT MARKINGS SHALL BE PAINTED WITH EPOXY RESIN PAINT IN COMPLIANCE WITH THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, AND INCIDENTAL CONSTRUCTION FORM 819 SECTION 12.10 AS REVISED. PAINTED CROSSWALK SHALL BE 8' MIN. LENGTH, 16" WIDE WHITE BAR, 24" WIDE SPACE, AND MAINTAINED BY THE TOWN.
 - NEW SIGN MATERIAL AND SHEETING SHALL BE MADE OF REFLEXIVE MATERIAL IN COMPLIANCE WITH THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, AND INCIDENTAL CONSTRUCTION FORM 819 SECTION 12.08 AS REVISED.
 - ALL SIGNS AND PAVEMENT MARKINGS INSTALLED ALONG TILLOTSON ROAD MUST CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES," THE LATEST STATE OF CONNECTICUT CATALOG OF SIGNS AND STANDARD AS REVISED.
 - ANY DAMAGE TO THE EXISTING CURB, SIDEWALK OR ANY OTHER HIGHWAY APPURTENANCE SHALL BE REPLACED BY THE CONTRACTOR AS DIRECTED BY THE DISTRICT 3 PERMIT SECTION AT NO ADDITIONAL COST.
 - RECTANGULAR RAPID FLASHING BEACON (RRFB) AND ALL ASSOCIATED EQUIPMENT, INCLUDING SIGNS, TO BE OWNED AND MAINTAINED BY THE TOWN OF AVON.



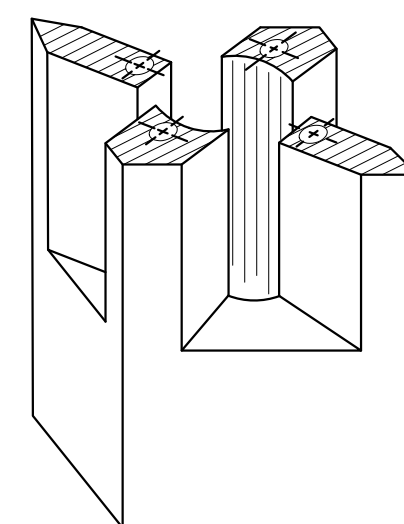
AI Engineers 919 MIDDLE STREET MIDDLETOWN, CT 06457		TILLOTSON ROAD OVER THOMPSON BROOK		AVON		PROJECT NO. 9004-0015 DRAWING NO. TCS-01 SHEET NO.	
ENGINEER: _____ DRAWN BY: _____ CHECKED BY: _____ SUBMITTED BY: _____ APPROVED BY: _____ APPROVED DATE: _____		TRAFFIC DESIGN: _____ ELECTRICAL DESIGN: _____		TOWN:		DRAWING TITLE: TRAFFIC CONTROL SIGNAL PLAN	



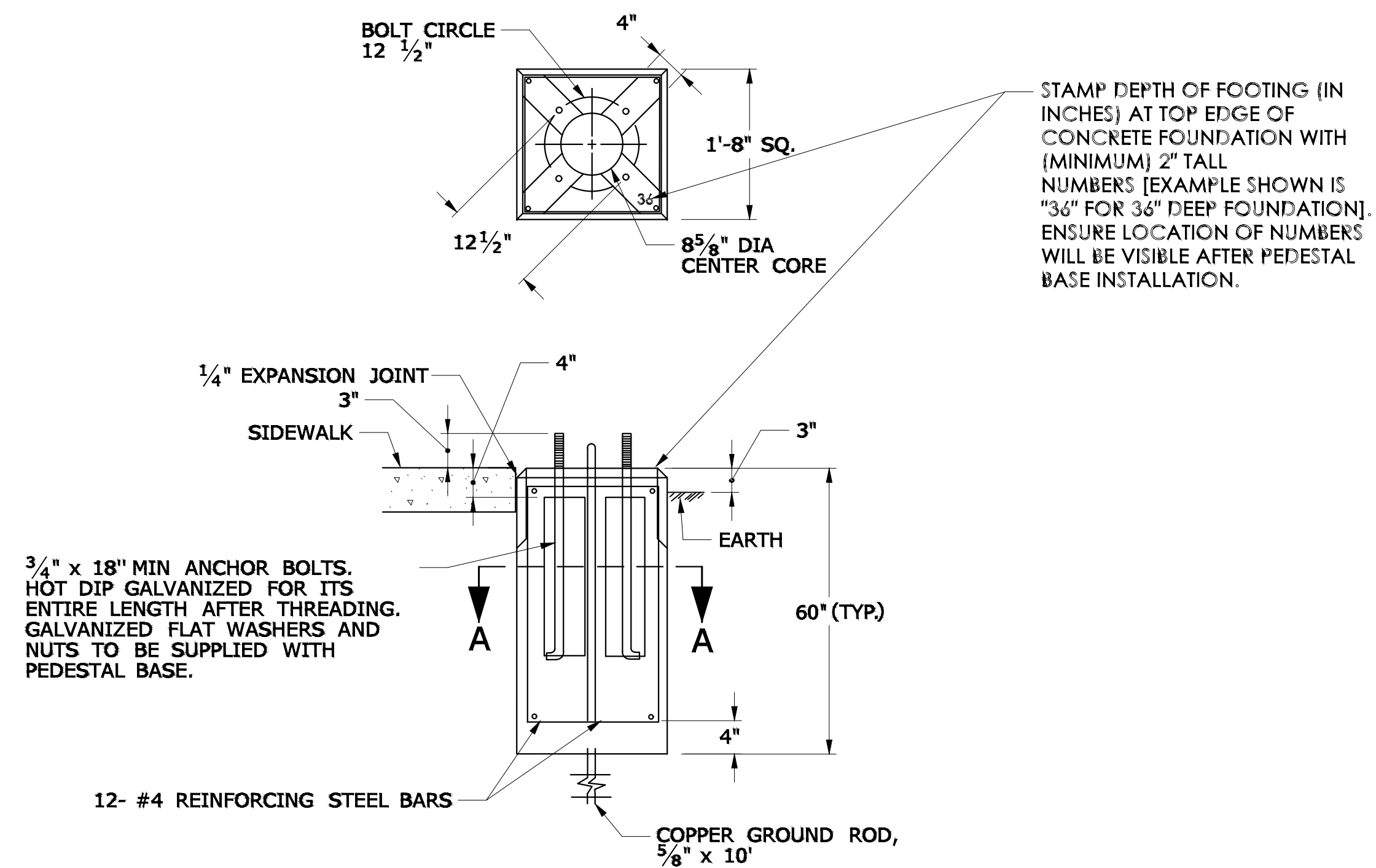
NOTES:

1. THE RRFB, AND PUSHBUTTONS SHALL BE BI-DIRECTIONAL CONFIGURATION A HAVE SIDE-EMITTING PEDESTRIAN CONFIRMATION LIGHTS.
2. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR ALUMINUM POLE.

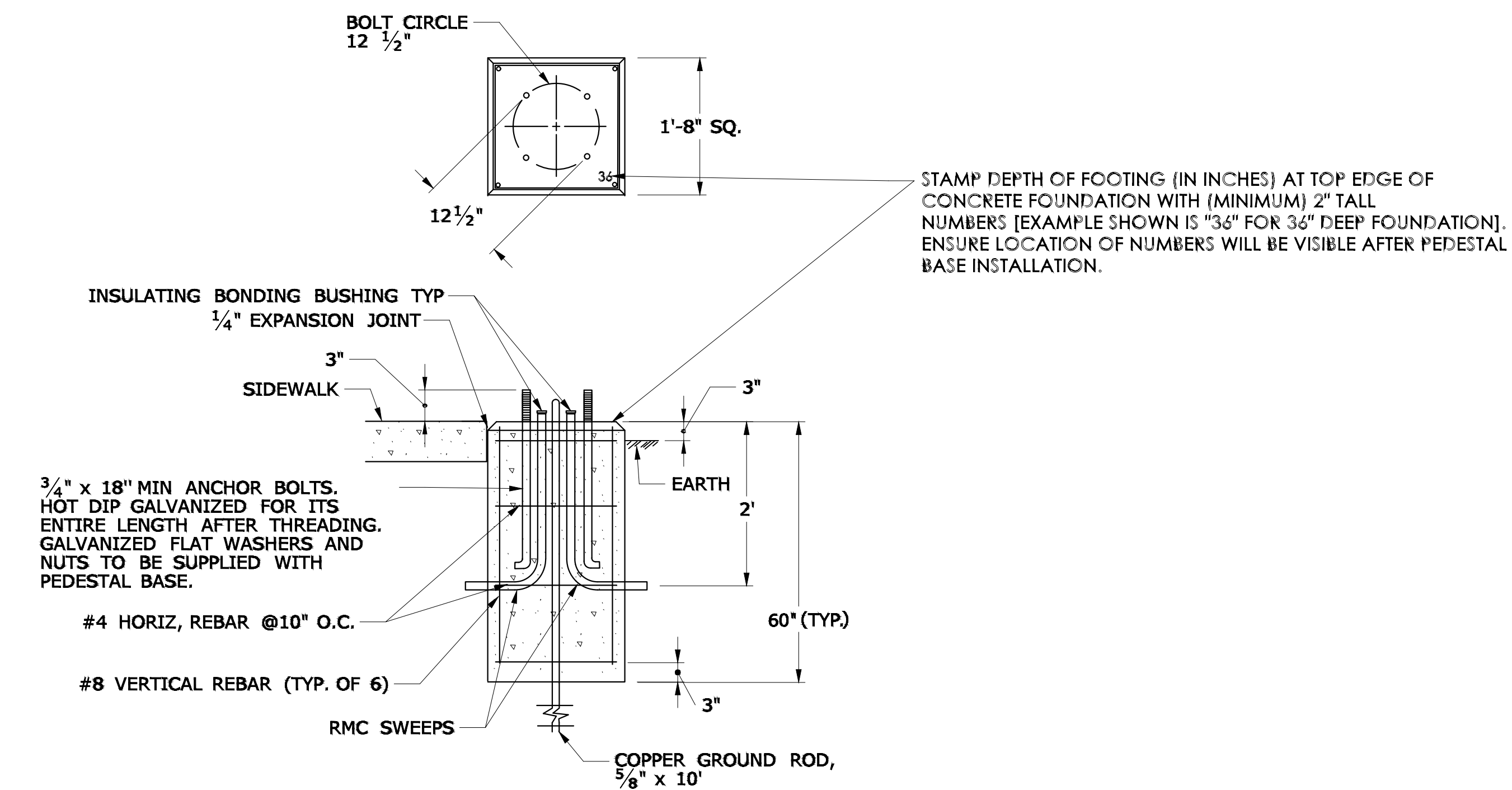
BACK TO BACK RECTANGULAR RAPID FLASHING BEACON DETAIL
NO SCALE



PICTORIAL SECTION A-A



TRAFFIC CONTROL FOUNDATION PEDESTAL - TYPE I - PRECAST



TRAFFIC CONTROL FOUNDATION PEDESTAL - TYPE I - CAST IN PLACE





























THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: BS CHECKED BY: SG SCALE AS NOTED	TOWN OF AVON Filename: 3572 TRAFFIC EQUIPMENT DETAIL.DWG	SIGNATURE/BLOCK: 919 MIDDLE STREET MIDDLETOWN, CT 06457	PROJECT TITLE: REPLACEMENT OF TILLOTSON ROAD BRIDGE OVER THOMPSON BROOK	TOWN: AVON	PROJECT NO. 9004-0015 DRAWING NO. TRF-01 SHEET NO.
REV. DATE REVISION DESCRIPTION SHEET NO.	Plotted Date: 4/30/2026						









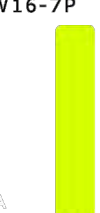
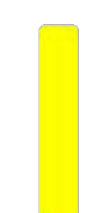



R1 - SERIES					R2 - SERIES					R3 - SERIES										R4 - SERIES					R5 - SERIES								
 R1-1 AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 1.85 18 31-0532 1 .080 5.17 30 31-0552 1 .080 7.98 36 31-0553 1 .080 13.24 48 31-0557 2 .080					 R2-1 AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 5.00 24X30 31-5505 1 .080 7.50 30X36 31-5504 1 .080 12.00 36X48 31-5506 2 .080 20.00 48X60 31-5507 2 .100					 R3-1 LEGEND - BLACK BACKGROUND - WHITE LETTERS & SYMBOLS - 303 AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 4.00 24X24 31-1604 1 .080 9.00 36X36 31-1627 2 .080 16.00 48X48 31-1624 2 .100		 R3-5 AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 7.50 30X36 31-0183 1 .080		 R3-5 AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 31-0184 1 .080		 R3-6 (CT) AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 7.50 36X30 31-0175 2 .080		 R3-8 AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 31-0282 2 .080		 R3-8 AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 31-0283 2 .080		 R3-8b AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 10.00 48X30 31-0302 2 .100		 R3-9b AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 6.00 24X36 31-0116 1 .080		 R4-1 AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 5.00 24X30 31-1502 1 .080		 R4-16 AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 20.00 48X60 31-1574 2 .100		 R5-1 AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 6.25 30X30 31-1119 1 .080 9.00 36X36 31-1120 2 .080 16.00 48X48 31-1121 2 .100		 R5-10a(CT) AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 9.00 36X36 31-1775 2 .080	
 R1-2 AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 0.95 18 31-0520 1 .080 3.84 36 31-0523 1 .080 6.77 48 31-0522 2 .100 10.83 60 31-0528 2 .100					 R2-4a AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 32.00 48X96 31-5510 2 .125					 R3-2 LEGEND - BLACK BACKGROUND - WHITE LETTERS & SYMBOLS - 303 AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 4.00 24X24 31-1603 1 .080 9.00 36X36 31-1629 2 .080 16.00 48X48 31-1623 2 .100		 R3-6 AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 31-0157 1 .080		 R3-6 AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 31-0158 1 .080		 R3-8 AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 31-0295 2 .080		 R3-8 AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 31-0219 2 .080		 R3-8b AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 31-0307 2 .100		 R3-8b AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 31-0372 2 .100		 R4-3 AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 5.00 24X30 31-1562 1 .080 20.00 48X60 31-1564 2 .100		 R5-1a AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 6.00 36X24 31-1122 2 .080 8.75 42X30 31-1123 2 .100		 R5-11 AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 5.00 30X24 31-1790 1 .080 12.00 48X36 31-1792 2 .100					
 R1-3P AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 0.75 18X6 31-0508 1 .080 2.50 30X12 31-0509 1 .080					 R3-3 AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 4.00 24X24 31-1648 1 .080 9.00 36X36 31-1647 2 .080					 R3-7 AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 6.25 30X30 31-0117 1 .080 9.00 36X36 31-0120 2 .080		 R3-8 AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 31-0222 1 .080		 R3-8 AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 31-0223 1 .080		 R3-8 AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 8.75 42X30 31-0279 2 .100		 R3-8b AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 8.75 42X30 31-0334 2 .100		 R4-7 AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 3.75 18X30 31-1506 1 .080 5.00 24X30 31-1526 1 .080 12.00 36X48 31-1536 2 .100 20.00 48X60 31-1546 2 .100		 R5-10a(CT) AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 32.50 60X78 31-1719 2 .125											
 R1-5 AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 9.00 36X36 31-0512 2 .080 9.00 36X36 31-0513 2 .080					 R3-4 LEGEND - BLACK BACKGROUND - WHITE LETTERS & SYMBOLS - 303 AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 4.00 24X24 31-1622 1 .080 9.00 36X36 31-1632 2 .080					 R3-7 AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 6.25 30X30 31-0118 1 .080 9.00 36X36 31-0123 2 .080		 R3-8 AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 31-0262 1 .080		 R3-8 AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 31-0261 1 .080		 R3-8b AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 31-0370 2 .100		 R3-8b AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 31-0371 2 .100		 R5-10c AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 2.00 24X12 31-1774 1 .080													






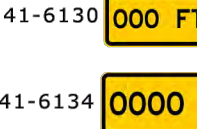

R6 - SERIES					R7 - SERIES					R8 - SERIES					R9 - SERIES					R10 - SERIES					R11 - SERIES					RETROREFLECTIVE STRIP																			
 R6-1 AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 3.00 36X12 31-1188 1 .080 6.75 54X18 31-1189 2 .100					 R7-1 (R) → (L) ← (D) → (L) ← AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 1.50 12X18 31-0630 1 .080					 R8-7 AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 12.00 48X36 31-0670 2 .100					 R9-3 LEGEND - BLACK BACKGROUND - WHITE LETTERS & SYMBOLS - 303 AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 2.25 18X18 31-1705 1 .080 4.00 24X24 31-1769 1 .080 6.25 30X30 31-1770 1 .080					 R10-6 STOP HERE ON RED AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 31-0801 1 .080					 R10-6 STOP HERE ON RED AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 31-0802 1 .080					 R10-11b NO TURN ON RED AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 4.00 24X24 30-0823 1 .080 9.00 36X36 31-0816 2 .080					 R10-11c NO TURN ON RED EXCEPT FROM RIGHT LANE AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 8.75 30X36 31-0861 1 .100 20.00 48X60 31-0862 2 .100					 R11-1 AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 5.00 24X30 31-1915 1 .080 20.00 48X60 31-1918 2 .100					 R5-1(CT) AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 1.30 4X48 31-5003 1 .080 2.00 4X72 31-5004 1 .080 2.66 4X96 31-5005 1 .080				
 R6-1 AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 3.00 36X12 31-1177 1 .080 6.75 54X18 31-1178 2 .100					 R7-2a VARIABLE TIMES (R) → (L) ← (D) → (L) ← AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 1.50 12X18 31-0603 1 .080					 R9-3a NO PEDESTRIAN CROSSING AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 1.50 12X18 31-1702 1 .080					 R10-7 DO NOT BLOCK INTERSECTION AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 5.00 24X30 31-0806 1 .080					 R10-11 NO TURN ON RED AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 7.50 30X36 31-0830 1 .080 12.00 36X48 31-0819 2 .100					 R10-12a LEFT TURN YIELD ON FLASHING YELLOW ARROW AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 7.50 30X36 31-0859 1 .080					 R10-15 TURNING VEHICLES AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 31-1626 1 .080					 R10-15 TURNING VEHICLES AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 31-1625 1 .080														


- NOTES:
- THE LEGEND "O.S.T.A." SHALL APPEAR ON ALL R - SERIES SIGNS EXCEPT WHEN SUFFICED WITH THE LETTER "Z".
 - FOR SPECIFIC SIGN DESIGN CONTACT CONN. D.O.T., DIVISION OF TRAFFIC ENGINEERING. FOR BOLT HOLE PATTERN REFER TO FHWA PUBLICATION "STANDARD HIGHWAY SIGNS". SIGNS OF DIFFERENT DIMENSIONS TO BE ERRECTED ON THE SAME POSTS, OR SPAN/MAST ARM MOUNTED, MAY REQUIRE SPECIAL BOLT HOLE PATTERNS.
 - POSTS - SEE STANDARD SHEET TR-1208-02 - "METAL SIGN POSTS AND SIGN MOUNTING DETAILS."
 - POSTS SHALL BE 4 LBS./FT.
 - SIGNS SHALL BE FABRICATED OF ONE CONTINUOUS PIECE OF SHEET ALUMINUM. SPLICING OF SHEET ALUMINUM WILL NOT BE ACCEPTED.
 - FOR OVERHEAD MOUNTED SIGNS, SEE STANDARD SHEET TR-1114-01 - "BONDING AND UTILITY POLE ATTACHMENT DETAILS, SIGN HANGER, "Y" CLAMP DETAIL."
 - ALL WHITE BACKGROUND SIDE MOUNTED SIGNS TO USE TYPE IX RETROREFLECTIVE SHEETING.
 - ALL RED AND YELLOW BACKGROUND SIGNS TO USE TYPE XI RETROREFLECTIVE SHEETING. THIS INCLUDES PARTIAL RED AND YELLOW BACKGROUND SUCH AS YIELD, DO NOT ENTER, AND TURNING VEHICLES YIELD TO PEDESTRIANS.
 - BLACK COLOR ON SIGNS SHALL BE PLAIN (NOT RETROREFLECTIVE).

DESIGNER/DRAFTER: BS	TOWN OF AVON	 AI Engineers 919 MIDDLE STREET MIDDLETOWN, CT 06457	PROJECT TITLE: REPLACEMENT OF TILLOTSON ROAD BRIDGE OVER THOMPSON BROOK	TOWN: AVON	PROJECT NO. 9004-0015
CHECKED BY: SG			SCALE AS NOTED	DRAWING TITLE: SIGN FACE SHEET ALUMINIUM R-SERIES SIGNS TYPICAL DETAILS	DRAWING NO. TRF-02
REV. DATE REVISION DESCRIPTION SHEET NO.	Plotted Date: 4/30/2026	Filename: TR-GS_01.DWG			SHEET NO.

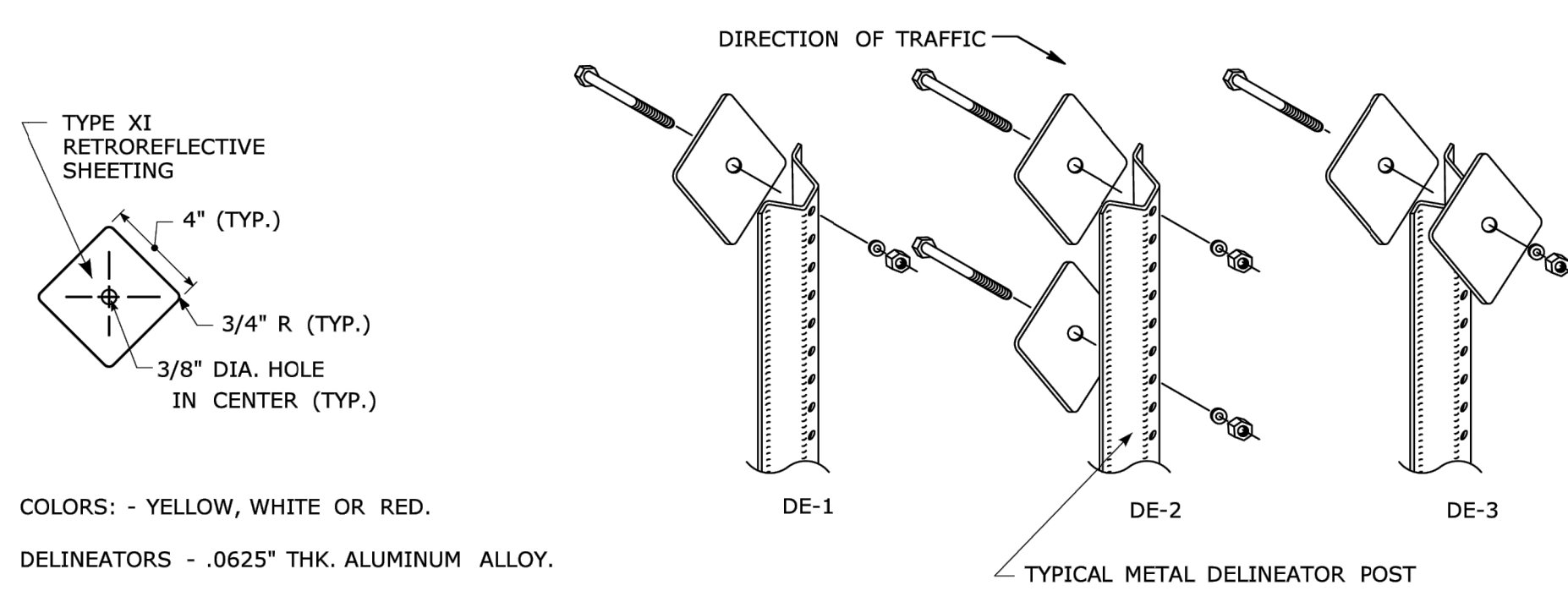
S - SERIES	W1 - SERIES				W2 - SERIES				W3 - SERIES				W4 - SERIES				W5 - SERIES				W6 - SERIES				W7 - SERIES				W8 - SERIES																																																																																																																																																																																																																												
 LEGEND - BLACK BACKGROUND - FLUORESCENT YELLOW GREEN <table border="1"> <thead> <tr> <th>AREA (SQ. FT)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> <th>ALUM. THK.</th> </tr> </thead> <tbody> <tr> <td>6.75</td> <td>36</td> <td>41-2112</td> <td>1</td> <td>.080</td> </tr> <tr> <td>9.00</td> <td>36</td> <td>41-2113</td> <td>2</td> <td>.100</td> </tr> </tbody> </table>	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	6.75	36	41-2112	1	.080	9.00	36	41-2113	2	.100	 <table border="1"> <thead> <tr> <th>AREA (SQ. FT)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> <th>ALUM. THK.</th> </tr> </thead> <tbody> <tr> <td>6.25</td> <td>30</td> <td>41-4006</td> <td>1</td> <td>.080</td> </tr> <tr> <td>9.00</td> <td>36</td> <td>41-4031</td> <td>1</td> <td>.080</td> </tr> <tr> <td>12.00</td> <td>48</td> <td>41-4056</td> <td>2</td> <td>.100</td> </tr> </tbody> </table>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	6.25	30	41-4006	1	.080	9.00	36	41-4031	1	.080	12.00	48	41-4056	2	.100	 <table border="1"> <thead> <tr> <th>AREA (SQ. FT)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> <th>ALUM. THK.</th> </tr> </thead> <tbody> <tr> <td>6.25</td> <td>30</td> <td>41-4005</td> <td>1</td> <td>.080</td> </tr> <tr> <td>9.00</td> <td>36</td> <td>41-4160</td> <td>1</td> <td>.080</td> </tr> <tr> <td>12.00</td> <td>48</td> <td>41-4055</td> <td>2</td> <td>.100</td> </tr> </tbody> </table>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	6.25	30	41-4005	1	.080	9.00	36	41-4160	1	.080	12.00	48	41-4055	2	.100	 LEGEND - BLACK BACKGROUND - FLUORESCENT YELLOW (LEFT OR RIGHT) <table border="1"> <thead> <tr> <th>AREA (SQ. FT)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> <th>ALUM. THK.</th> </tr> </thead> <tbody> <tr> <td>8.00</td> <td>48X24</td> <td>41-4223</td> <td>2</td> <td>.100</td> </tr> <tr> <td>12.50</td> <td>60X30</td> <td>41-4262</td> <td>2</td> <td>.100</td> </tr> </tbody> </table>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	8.00	48X24	41-4223	2	.100	12.50	60X30	41-4262	2	.100	 <table border="1"> <thead> <tr> <th>AREA (SQ. FT)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> <th>ALUM. THK.</th> </tr> </thead> <tbody> <tr> <td>6.25</td> <td>30</td> <td>41-4226</td> <td>1</td> <td>.080</td> </tr> <tr> <td>9.00</td> <td>36</td> <td>41-4236</td> <td>1</td> <td>.080</td> </tr> <tr> <td>16.00</td> <td>48</td> <td>41-4221</td> <td>2</td> <td>.100</td> </tr> </tbody> </table>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	6.25	30	41-4226	1	.080	9.00	36	41-4236	1	.080	16.00	48	41-4221	2	.100	 OCTAGON - RED <table border="1"> <thead> <tr> <th>AREA (SQ. FT)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> <th>ALUM. THK.</th> </tr> </thead> <tbody> <tr> <td>6.25</td> <td>30</td> <td>41-0501</td> <td>1</td> <td>.080</td> </tr> <tr> <td>16.00</td> <td>48</td> <td>41-0503</td> <td>2</td> <td>.100</td> </tr> </tbody> </table>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	6.25	30	41-0501	1	.080	16.00	48	41-0503	2	.100	 <table border="1"> <thead> <tr> <th>AREA (SQ. FT)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> <th>ALUM. THK.</th> </tr> </thead> <tbody> <tr> <td>9.00</td> <td>36</td> <td>41-4448</td> <td>1</td> <td>.080</td> </tr> <tr> <td>16.00</td> <td>48</td> <td>41-4452</td> <td>2</td> <td>.100</td> </tr> </tbody> </table>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	9.00	36	41-4448	1	.080	16.00	48	41-4452	2	.100	 <table border="1"> <thead> <tr> <th>AREA (SQ. FT)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> <th>ALUM. 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THK.</th> </tr> </thead> <tbody> <tr> <td>9.00</td> <td>36</td> <td>41-4335</td> <td>1</td> <td>.080</td> </tr> <tr> <td>16.00</td> <td>48</td> <td>41-4330</td> <td>2</td> <td>.100</td> </tr> </tbody> </table>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	9.00	36	41-4335	1	.080	16.00	48	41-4330	2	.100	 <table border="1"> <thead> <tr> <th>AREA (SQ. FT)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> <th>ALUM. THK.</th> </tr> </thead> <tbody> <tr> <td>6.25</td> <td>30</td> <td>41-4506</td> <td>1</td> <td>.080</td> </tr> <tr> <td>9.00</td> <td>36</td> <td>41-4530</td> <td>1</td> <td>.080</td> </tr> <tr> <td>16.00</td> <td>48</td> <td>41-4508</td> <td>2</td> <td>.100</td> </tr> </tbody> </table>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	6.25	30	41-4506	1	.080	9.00	36	41-4530	1	.080	16.00	48	41-4508	2	.100	 <table border="1"> <thead> <tr> <th>AREA (SQ. FT)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> <th>ALUM. 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AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.																																																																																																																																																																																																																																																					
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2.19	21X15	41-2602	1	.080																																																																																																																																																																																				
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2.00	24X12	41-6126	1	.080																																																																																																																																																																																				
3.75	30X18	41-6137	1	.080																																																																																																																																																																																				
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2.00	4X72	41-5010	1	.080																																																																																																																																																																																				
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1.33	4X48	41-5001	1	.080																																																																																																																																																																																				
2.00	4X72	41-5006	1	.080																																																																																																																																																																																				
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**DELINEATORS DE-1, DE-2, DE-3
INSTALLATION ON DELINEATOR POSTS**



COLORS: - YELLOW, WHITE OR RED.

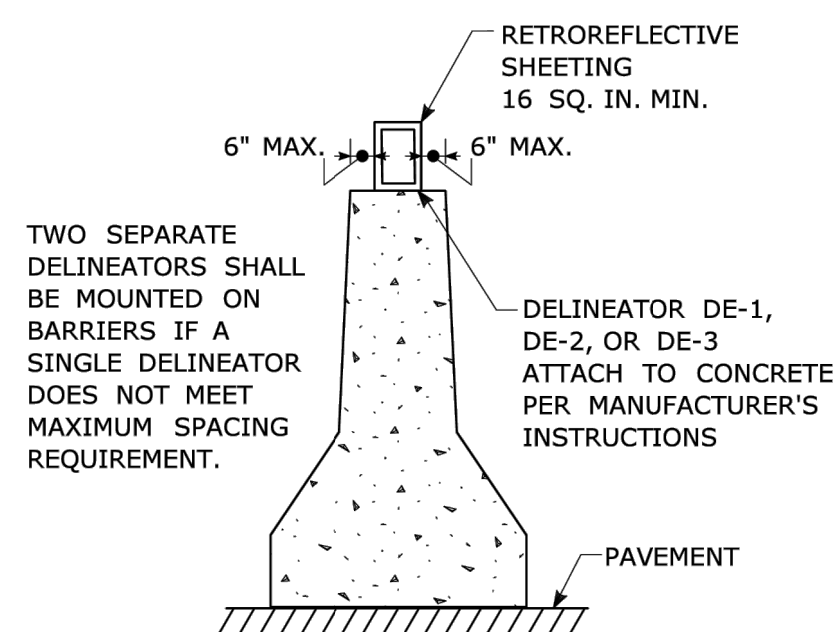
DELINEATORS - .0625" THK. ALUMINUM ALLOY.

FACE SHALL BE PRESSURE SENSITIVE, SELF ADHERING, TYPE XI RETROREFLECTIVE SHEETING.

DELINEATORS SHALL BE FASTENED WITH 5/16" STAINLESS STEEL ASTM A-193 CLASS 1, GRADE B8 (TYPE 304) OR BETTER HEX HEAD BOLT (LENGTH AS REQUIRED), WASHER AND FIBER INSERT SELF LOCKING NUT, ON STANDARD METAL DELINEATOR POST.

DELINEATORS DE-1, DE-2, DE-3 TO BE PAID FOR UNDER SECTION 12.05 DELINEATORS.

INSTALLATION ON PERMANENT CONCRETE BARRIER, BRIDGE PARAPETS AND RETAINING WALLS



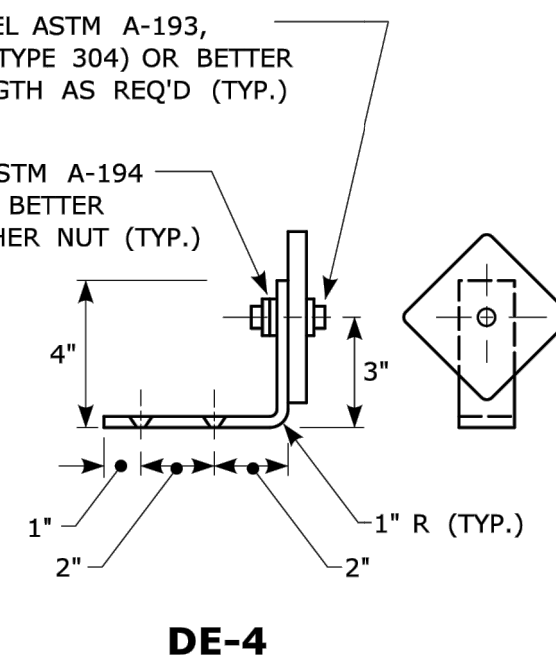
TWO SEPARATE DELINEATORS SHALL BE MOUNTED ON BARRIERS IF A SINGLE DELINEATOR DOES NOT MEET MAXIMUM SPACING REQUIREMENT.

RETROREFLECTIVE SHEETING 16 SQ. IN. MIN.
DELINEATOR DE-1, DE-2, OR DE-3 ATTACH TO CONCRETE PER MANUFACTURER'S INSTRUCTIONS

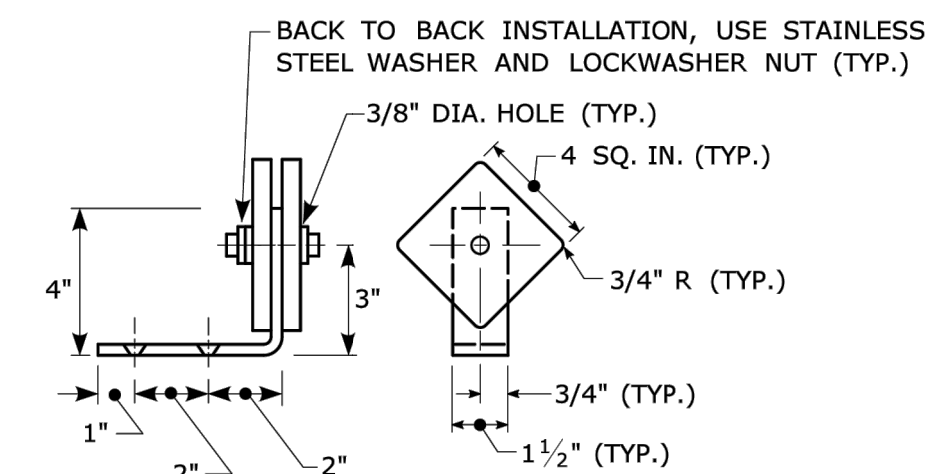
**DELINEATORS DE-4, DE-4A, DE-5
FOR INSTALLATION ON METAL BRIDGE RAIL**

5/16" STAINLESS STEEL ASTM A-193, CLASS 1 GRADE B8 (TYPE 304) OR BETTER HEX HEAD BOLT, LENGTH AS REQ'D (TYP.)

USE STAINLESS STEEL ASTM A-194 GRADE 8 (TYPE 304) OR BETTER WASHER AND LOCKWASHER NUT (TYP.)



DE-4



DE-4A

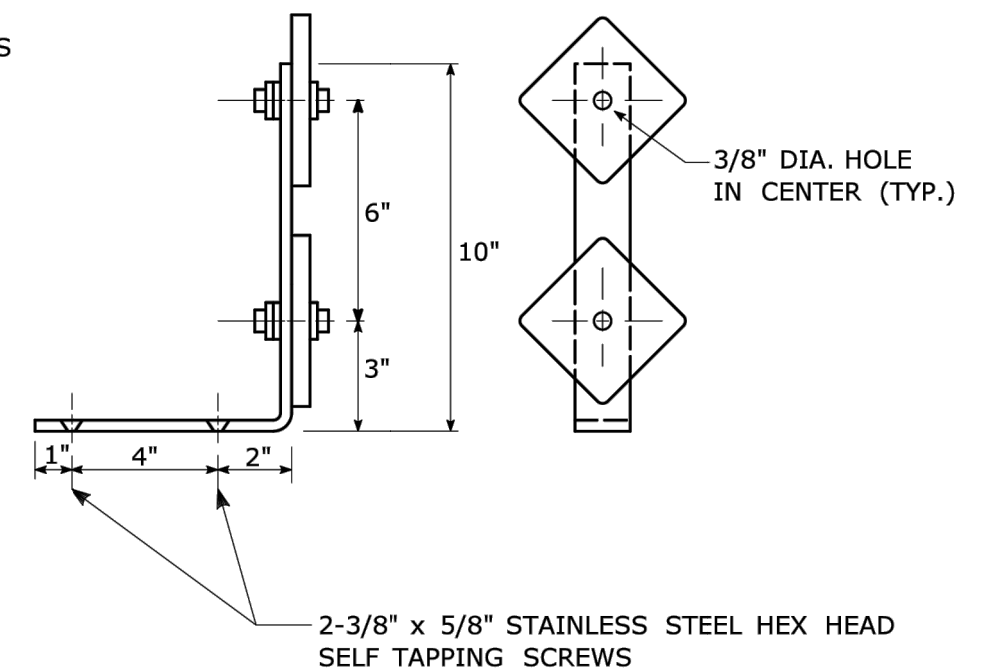
COLORS: - YELLOW, WHITE OR RED.

DELINEATORS - .0625" THK. ALUMINUM ALLOY.

BRACKET - .125" THK. ALUMINUM ALLOY, AND SHALL CONFORM TO SPECIFICATION M.18.07-03 BRIDGE RAIL MOUNTING BRACKETS. FACE SHALL BE PRESSURE SENSITIVE, SELF ADHERING, TYPE XI RETROREFLECTIVE SHEETING.

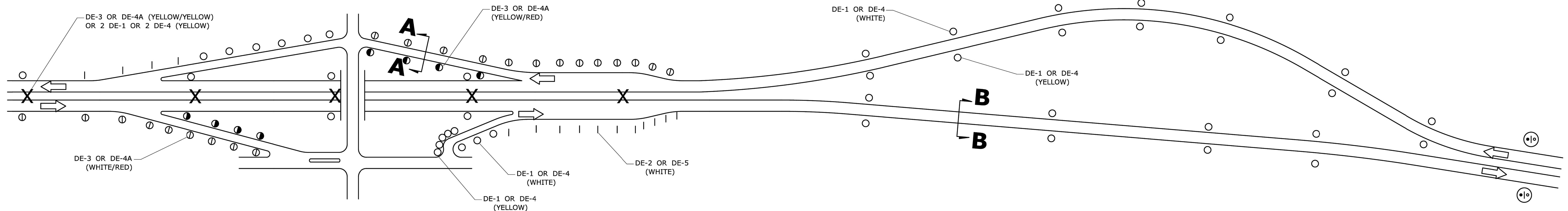
USE STAINLESS STEEL WASHERS ON FACE OF DELINEATORS, 5/8" O.D. X 3/8" I.D. X .032" THK. (TYP.)

DELINEATORS TYPE DE-4, DE-4A, AND DE-5 TO BE PAID FOR UNDER SECTION 12.05 DELINEATORS.



DE-5

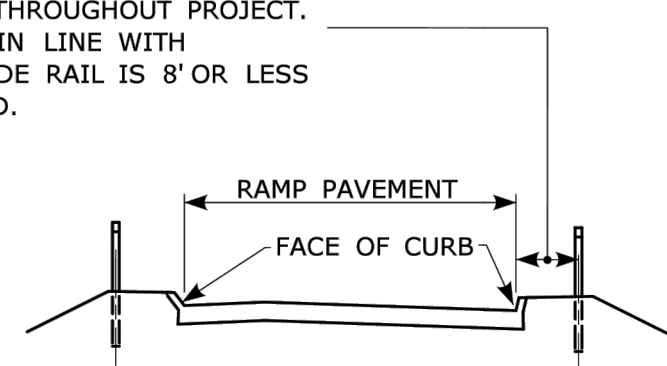
TYPICAL MAINLINE & INTERCHANGE DELINEATION



DELINEATOR SPACING NOTES:

- 1) AT LOCATIONS WHERE THE MEDIAN WIDTH (BETWEEN SHOULDERS) IS 12' OR LESS, AND MEDIAN BEAM RAIL IS PRESENT, TYPE DE-3 DELINEATORS SHALL BE MOUNTED WITHIN THE MEDIAN BEAM RAIL.
- 2) SPACING ON MAINLINE EXPRESSWAY TANGENTS SHALL BE 400'.
- 3) SPACING ON MAINLINE EXPRESSWAY CURVES SHALL BE AS SPECIFIED IN THE MUTCD TABLE.
- 4) ON ACCELERATION AND DECELERATION LANES AND ON-RAMP TANGENT SECTIONS, DELINEATOR SPACING SHALL BE 100'.
- 5) ON CURVED PORTIONS OF RAMP, DELINEATOR SPACING SHALL BE IN ACCORDANCE WITH THE MUTCD TABLE, BUT NOT TO EXCEED 100'.
- 6) ON OFF-RAMP TANGENT SECTIONS, DELINEATOR SPACING SHALL BE 50' THROUGHOUT.
- 7) GUIDE RAIL AND BARRIER DELINEATOR SPACING SHALL BE AS SPECIFIED IN THE CORRESPONDING SPECIFICATIONS AND DETAILS.

2' TYP. TO 8' MAX. AS DIRECTED BY ENGINEER. ONE OFFSET SHALL BE USED THROUGHOUT PROJECT. DELINEATORS TO BE PLACED IN LINE WITH GUIDE RAIL POSTS WHEN GUIDE RAIL IS 8' OR LESS FROM THE EDGE OF THE ROAD.



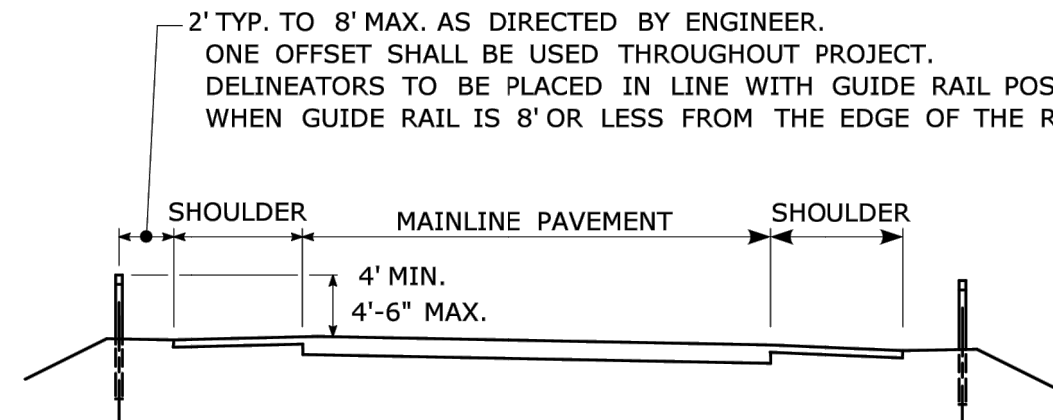
SECTION A-A

DELINEATOR PLACEMENT ON RAMP
ON TANGENT SECTIONS - RIGHT SIDE OF RAMP
ON CURVED SECTIONS - BOTH SIDES OF CURVE
ON TANGENT AND CURVE - BOTH SIDES OF OFF-RAMP

LEGEND:

- DE-1 DELINEATORS OR DE-4 DELINEATOR ASSEMBLY
- | DE-2 DELINEATORS OR DE-5 DELINEATOR ASSEMBLY (WHITE)
- X DE-3 DELINEATOR OR DE-4A DELINEATOR ASSEMBLY (YELLOW & YELLOW)
- DE-3 DELINEATORS OR DE-4A DELINEATOR ASSEMBLY (BI-COLOR: YELLOW & RED)
- ⊙ DE-3 DELINEATORS OR DE-4A DELINEATOR ASSEMBLY (BI-COLOR: WHITE & RED)
- ⊙ D10-1, 2, 3, OR 4 ASSEMBLY TO BE INSTALLED WHERE SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER. (REFERENCE LOCATION/MILE POST SIGNS)

2' TYP. TO 8' MAX. AS DIRECTED BY ENGINEER. ONE OFFSET SHALL BE USED THROUGHOUT PROJECT. DELINEATORS TO BE PLACED IN LINE WITH GUIDE RAIL POSTS WHEN GUIDE RAIL IS 8' OR LESS FROM THE EDGE OF THE ROAD.



SECTION B-B

DELINEATOR PLACEMENT ON MAINLINE

COLOR APPLICATION, FOR DE-1 THRU DE-5

1. UNLESS INDICATED OTHERWISE, THE DELINEATOR OR BARRIER DELINEATOR COLOR SHALL CONFORM TO THE COLOR OF THE PAVEMENT EDGE LINE ON THE SIDE OF THE ROAD WHERE THE DELINEATORS OR BARRIER DELINEATORS ARE PLACED.
2. SINGLE RED DELINEATORS ARE MOUNTED ON THE BACK SIDE OF DELINEATOR POSTS FOR WRONG WAY DRIVER APPLICATIONS.

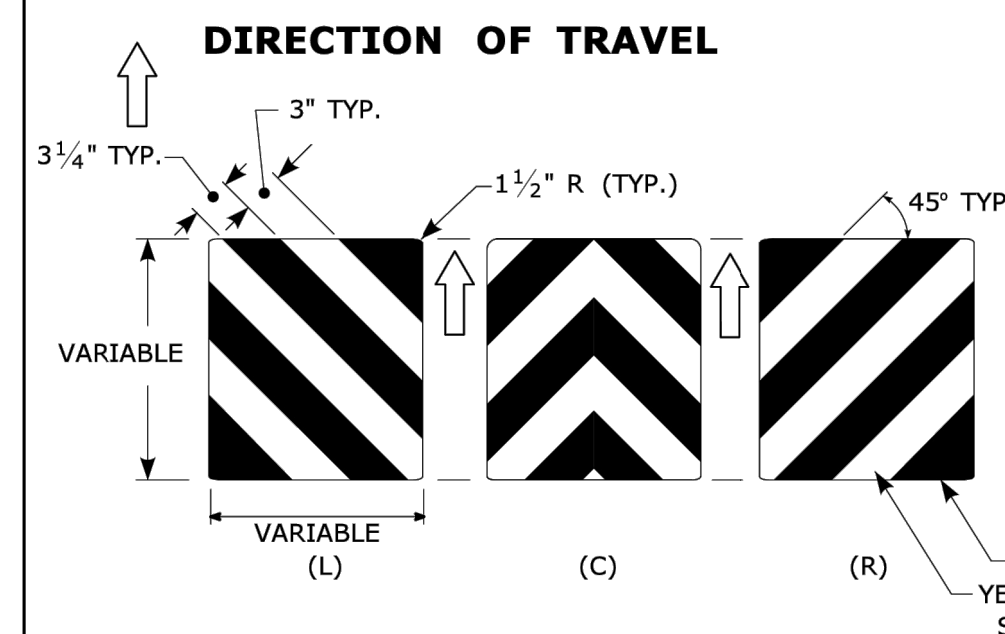
MUTCD TABLE - APPROXIMATE SPACING FOR DELINEATORS ON HORIZONTAL CURVES

RADIUS (R) OF CURVE (feet)	APPROXIMATE SPACING (S) ON CURVE (feet)
50	20
115	25
180	35
250	40
300	50
400	55
500	65
600	70
700	75
800	80
900	85
1,000	90

DISTANCE IN FEET WERE ROUNDED TO THE NEAREST 5 FEET. SPACING FOR SPECIFIC RADII MAY BE INTERPOLATED FROM TABLE. THE MINIMUM SPACING SHOULD BE 20 FEET. THE SPACING ON CURVES SHOULD NOT EXCEED 300 FEET. IN ADVANCE OF OR BEYOND A CURVE, AND PROCEEDING AWAY FROM THE END OF THE CURVE, THE SPACING OF THE FIRST DELINEATOR IS 2S, THE SECOND IS 3S, AND THE THIRD 6S BUT NOT TO EXCEED 300 FEET.

S REFERS TO THE DELINEATOR SPACING FOR SPECIFIC RADII COMPUTED FROM THE FORMULA: $S=3\sqrt{R-50}$.

**ATTENUATOR REFLECTORS
SIGN #40-4266**



THIS SHEETING WITHOUT A SUBSTRATE TO BE INSTALLED ON THE NOSE OF THE IMPACT ATTENUATOR WITH ADHESIVE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. THE SHEETING SHALL COVER THE NOSE OF THE IMPACT ATTENUATOR. ON A CURVED NOSE, THE WIDTH OF THE SHEETING SHALL EXTEND 1" BEYOND THE POINT OF CURVATURE ON EACH SIDE OF THE NOSE. THE HEIGHT AND WIDTH OF THE SHEETING VARIES DEPENDING ON THE SIZE OF THE NOSE OF THE IMPACT ATTENUATOR.

BLACK OPAQUE (TYP.)
YELLOW TYPE IV OR TYPE IX RETROREFLECTIVE STRIPE (ANGLE DOWNWARD TOWARD ADJACENT PAVEMENT) (TYP.)

ATTENUATOR REFLECTOR TO BE PAID FOR UNDER SECTION 18.0 IMPACT ATTENUATOR

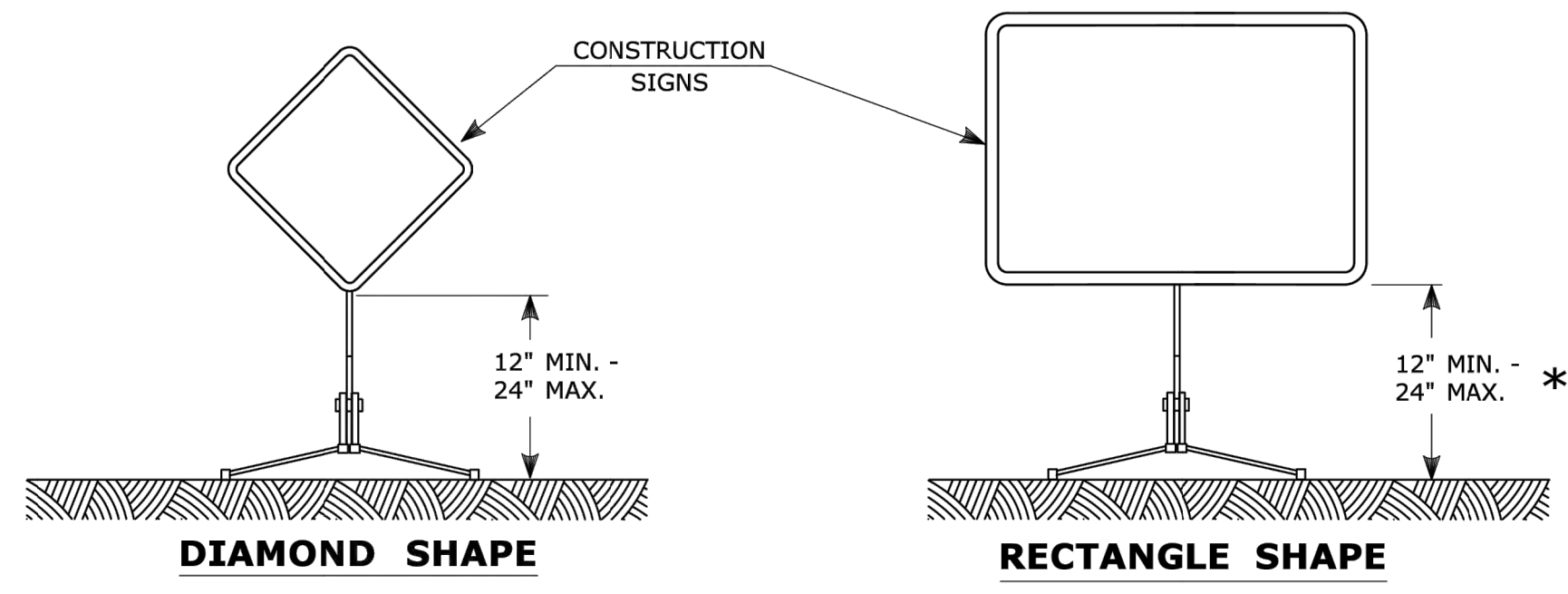
DESIGNER/DRAFTER: BS	TOWN OF AVON	AI Engineers 919 MIDDLE STREET MIDDLETOWN, CT 06457	PROJECT TITLE: REPLACEMENT OF TILLOTSON ROAD BRIDGE OVER THOMPSON BROOK	TOWN: AVON	PROJECT NO. 9004-0015
CHECKED BY: SG					DRAWING NO. TRF-04
SCALE AS NOTED	FILENAME: TRF-01.DWG			DRAWING TITLE: DELINEATORS	SHEET NO.
REV. DATE REVISION DESCRIPTION SHEET NO. Plotted Date: 4/30/2026					

E5 - SERIES				G20 - SERIES				M4 - SERIES				R4-R11 - SERIES				W1 - SERIES				W3 - SERIES				W4-W6 - SERIES															
 COPY & BORDER - WHITE BACKGROUND - GREEN AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS (L) 30.0 72X60 51-6148 2 (R) 30.0 72X60 51-6150 2				 AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS 4.5 36X18 80-9611 1 8.0 48X24 80-9612 2				 AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS 2.0 24X12 80-9707 1				 VARIABLE ARROW AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS 5.0 30X24 80-9703 1				 COPY & BORDER - BLACK BACKGROUND - WHITE AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS 3.75 30X18 80-9076 1				 VARIABLE ARROW COPY & BORDER - BLACK BACKGROUND - WHITE AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS 3.0 24X18 80-9074 1				 VARIABLE ARROW COPY & BORDER - BLACK BACKGROUND - WHITE AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS 2.0 24X12 80-9075 1				 AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS (L) 9.0 36 80-9432 1 (R) 9.0 36 80-9431 1 (L) 16.0 48 80-9452 2 (R) 16.0 48 80-9451 2 (L or R) 3.0 18X24 80-9401 1 5.0 24X30 80-9403 1 7.5 30X36 80-9404 1				 OCTAGON - RED W/ WHITE BORDER ARROW & BORDER - BLACK BACKGROUND - FLUORESCENT ORANGE AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS 9.0 36 80-9050 1 16.0 48 80-9051 2				 AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS (L) 9 36 80-9922 2 (R) 9 36 80-9921 2 (L) 16.0 48 80-9918 2 (R) 16.0 48 80-9917 2 (L) 9.0 36 80-9938 1 (R) 9.0 36 80-9939 2 (L) 16.0 48 80-9936 1 (R) 16.0 48 80-9937 2			
 AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS (L) 16.0 48 80-9715 2 (R) 16.0 48 80-9705 2				 VARIABLE MILEAGE AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS 90.0 120X108 80-9728 2				 AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS 3.0 24X18 80-9708 1				 VARIABLE ARROW AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS 6.25 30X30 80-9706 1				 COPY & BORDER - BLACK BACKGROUND - WHITE AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS 10.0 48X30 80-9080 2				 VARIABLE MILEAGE COPY & BORDER - BLACK BACKGROUND - WHITE AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS 12.5 60X30 80-9077 2				 COPY & BORDER - BLACK BACKGROUND - WHITE AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS 12.5 60X30 80-9081 2				 AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS (L) 25.0 60 80-9444 2 (R) 25.0 60 80-9446 2 (L or R) 8.0 48X24 80-9424 2 12.5 60X30 80-9423 2				 TRIANGLE - RED W/ WHITE BORDER ARROW & BORDER - BLACK BACKGROUND - FLUORESCENT ORANGE AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS 9.0 36 80-9054 1 16.0 48 80-9055 2				 AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS (R) 16.0 48 80-9923 2 (L) 16.0 48 80-9924 2 (R) 9.0 36 80-9947 1 (L) 16.0 48 80-9945 2			
 AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS 12.0 48X36 80-9716 2				 VARIABLE MILEAGE AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS 7.0 72X14 80-9720 2				 AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS (R) 6.0 48X18 80-9701 2 (L) 6.0 48X18 80-9702 2				 VARIABLE ARROW AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS 5.0 30X24 80-9713 1				 COPY & BORDER - BLACK BACKGROUND - WHITE AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS 10.0 48X30 80-9001 2				 COPY & BORDER - BLACK BACKGROUND - WHITE AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS 14.0 48X42 31-1517 1 12.0 36X48 31-1518 1 20.0 48X60 31-1519 2				 COPY & BORDER - BLACK BACKGROUND - WHITE AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS 22.5 60X54 31-1907 2				 AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS (L) 25.0 60 80-9484 2 (R) 25.0 60 80-9486 2				 TOP CIRCLE - RED MIDDLE CIRCLE - YELLOW BOTTOM CIRCLE - GREEN COPY & BORDER - BLACK BACKGROUND - FLUORESCENT ORANGE AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS 9.0 36 80-9052 1 16.0 48 80-9053 2				 SIDE A BACKGROUND - RED COPY & BORDER - WHITE SIDE B BACKGROUND - ORANGE COPY & BORDER - BLACK PLAIN AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS 2.25 18 80-9950 PADDLE			
 AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS 12.0 48X36 80-9717 2				 VARIABLE ARROW COPY & BORDER - WHITE BACKGROUND - BLUE AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS 9.0 36 50-5934 2				 VARIABLE ARROW AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS 5.0 30X24 80-9710 1				 AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS (L) 3.0 24X18 80-9850L 1 (R) 3.0 24X18 80-9850R 1																											

W8-W12 - SERIES				W13 - SERIES				W20 - SERIES				W21-W24 - SERIES				16 - SERIES																											
 AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS (L) 16.0 48 80-9846 2 (R) 16.0 48 80-9849 2				 AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS (L) 16.0 48 80-9836 2 (R) 16.0 48 80-9839 2				 AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS (L) 16.0 48 80-9837 2 (R) 16.0 48 80-9838 2				 SUBPLATE VARIABLE SPEED AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS 4.0 24 80-9569 1 6.25 30 80-9567 1				 AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS 6.25 30 80-9602 1 9.0 36 80-9603 1 16.0 48 80-9604 2				 AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS 9.0 36 80-9711 1 16.0 48 80-9712 2				 AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS 9.0 36 80-9607 1				 AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS 9.0 36 80-9620 1 16.0 48 80-9625 2				 AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS 10.5 42X36 80-9623 2				 VARIABLE LEGEND AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS (1) 6 48X18 80-9931 2 (2) 7.5 60X18 80-9932 2 (3) 9 72X18 80-9935 2				 ROAD USE RESTRICTED STATE LIABILITY LIMITED FEDERAL STATUTES REG. 124 - 128 (24 - 148) COMPENDIUM OF TRANSPORTATION			
 AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS (L) 16.0 48 80-9847 2 (R) 16.0 48 80-9848 2				 AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS 16.0 48 80-9905 2				 AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS (L) 16.0 48 80-9903 2 (R) 16.0 48 80-9904 2				 VARIABLE MILEAGE AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS 2.5 30X12 80-9872 1 4.5 36X18 80-9873 1				 VARIABLE DISTANCE AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS 9.0 36 80-9803 1 16.0 48 80-9804 2				 AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS 9.0 36 80-9803 1 16.0 48 80-9804 2				 AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS 10.5 42X36 80-9621 2				 AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS (L) 9.0 36 80-9903 1 (R) 9.0 36 80-9905 1 (L) 16.0 48 80-9957 2 (R) 16.0 48 80-9957 2				 VARIABLE LEGEND AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS 4.17 60X10 80-9913 2 12.0 96X18 80-9914 2 3.33 48X10 80-9916 2 16.0 48 80-9933 1 16.0 48 80-9934 2				 SIDEWALK USE RESTRICTED STATE LIABILITY LIMITED FEDERAL STATUTES REG. 124 - 128 (24 - 148) COMPENDIUM OF TRANSPORTATION							
 AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS (1) 9.0 36 80-9901 1 (2) 9.0 36 80-9902 1 (2) 16.0 48 80-9902 2				 AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS (L) 9.0 36 80-9831 1 (R) 9.0 36 80-9830 1 (L) 16.0 48 80-9833 2 (R) 16.0 48 80-9832 2				 AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS 2.0 24X12 80-9870 1 3.75 30X18 80-9871 1				 AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS 9.0 36 80-9805 1 16.0 48 80-9806 2				 AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS 32.0 96X48 80-9815 2				 AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS (L) 9.0 36 80-9065 1 (R) 9.0 36 80-9067 1 (L) 9.0 36 80-9063 1 (R) 9.0 36 80-9069 1 (L) 16.0 48 80-9064 2 (R) 16.0 48 80-9062 2 (L) 16.0 48 80-9070 2 (R) 16.0 48 80-9068 2				 AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS 3.0 24X18 80-9061 1 5.0 30X24 80-9070 1				 VARIABLE LEGEND AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS 16-H 5.0 30X24 80-1613 1 16-M 17.5 60X42 80-1608 2 16-E 35.0 84X60 80-1605 2				 SIDEWALK USE RESTRICTED STATE LIABILITY LIMITED FEDERAL STATUTES REG. 124 - 128 (24 - 148) COMPENDIUM OF TRANSPORTATION											
 AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS 16.0 48 80-9900 2				 AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS 16.0 48 80-9956 2				 AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS 6.25 30 80-9962 1 9.0 36 80-9963 1 16.0 48 80-9964 2				 AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS 2.0 24X12 80-9049 1 9.0 36 80-9799 1 16.0 48 80-9800 2				 AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS 9.0 36 80-9834 1 16.0 48 80-9835 2																											

- NOTES:
- R1-SERIES SIGN THE LEGEND "O.S.T.A." SHALL APPEAR.
 - POSTS - SEE STANDARD SHEET TR-1208.02 - "METAL SIGN POSTS AND SIGN MOUNTING DETAILS".
 - ALL POSTS NOTED ARE FOR LONG TERM INSTALLATION. SEE STANDARD SHEET TR-1208.02.
 - FOR TEMPORARY SUPPORTS SEE STANDARD SHEET TR-1220.02 - "CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES".
 - FOR SPECIFIC SIGN DESIGN, CONTACT CONN. D.O.T., DIVISION OF TRAFFIC ENGINEERING. FOR BOLT HOLE PATTERN REFER TO FHWA PUBLICATION "STANDARD HIGHWAY SIGNS". SIGNS OF DIFFERENT DIMENSIONS TO BE ERRECTED ON THE SAME POSTS, OR SPAN/MAST ARM MOUNTED, MAY REQUIRE SPECIAL BOLT HOLE PATTERNS.
 - ALL CONSTRUCTION SIGNS TO BE PAID FOR UNDER THE CONSTRUCTION SIGNS ITEM IN THE CONTRACT.
 - MATERIALS & COLORS SHALL CONFORM TO STATE SPECIFICATIONS.
 - MATERIALS: SIGNS AND THEIR PORTABLE SUPPORTS SHALL CONFORM TO THE REQUIREMENTS OF THE AASHTO MASH FOR CATEGORY 2 DEVICES. ALUMINUM THICKNESS FOR POST MOUNTED SIGNS SHALL BE .100" EXCEPT SIGN #s. 80-1605, 80-9914, 80-9815, 80-9728, 80-9519, & 51-6147 (L OR R) WHICH SHALL BE .125", PLYWOOD THICKNESS FOR POST MOUNTED SIGNS SHALL BE 1/2" EXTERIOR GRADE A-C OR BETTER. SIGN BLANKS SHALL HAVE ONE COAT OF PRIMER PAINT PRIOR TO APPLICATION OF RETROREFLECTIVE SHEETING & COPY.
 - COLORS:
BACKGROUND - FLUORESCENT ORANGE EXCEPT AS NOTED.
LEGEND - BLACK - EXCEPT AS NOTED.
 - ALL SIGNS WITH FLUORESCENT ORANGE BACKGROUND TO USE TYPE VIII RETROREFLECTIVE SHEETING. ALL OTHER SIGNS TO USE TYPE IX RETROREFLECTIVE SHEETING.
 - BLACK COLOR ON SIGNS SHALL BE PLAIN (NOT RETROREFLECTIVE)

DESIGNER/DRAFTER: BS	CHECKED BY: SG	SCALE AS NOTED	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	 919 MIDDLE STREET MIDDLETOWN, CT 06457	PROJECT TITLE: REPLACEMENT OF TILLOTSON ROAD BRIDGE OVER THOMPSON BROOK	TOWN: AVON	PROJECT NO. 9004-0015
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 4/30/2026	Filename: TRF-02.DWG	DRAWING TITLE: CONSTRUCTION SIGNS-1	DRAWING NO. TRF-05

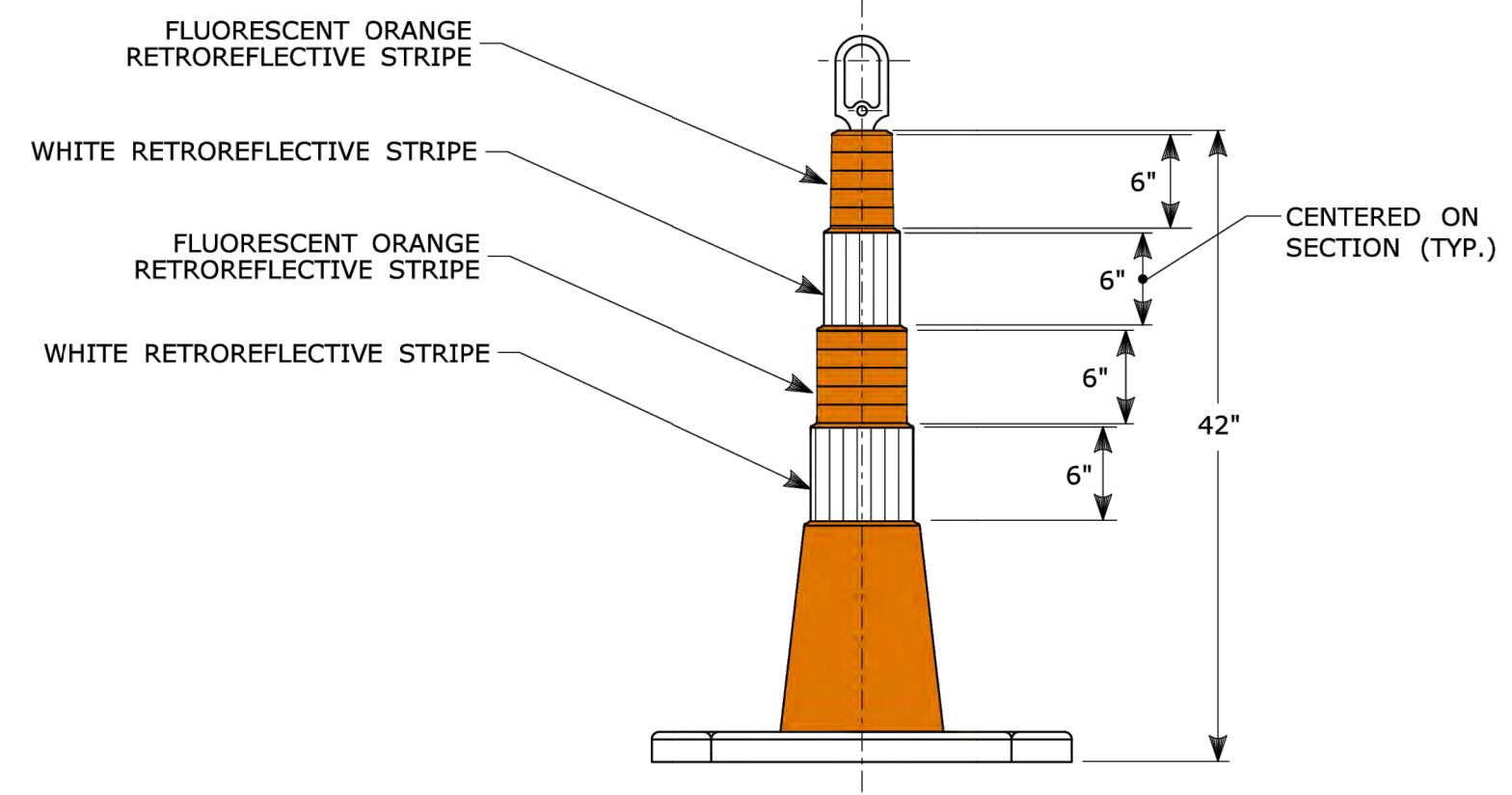


PORTABLE CONSTRUCTION SIGNS

NOTES FOR PORTABLE SIGN SUPPORTS:

- SIGNS AND THEIR PORTABLE SUPPORTS SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 2 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- MOUNTING HEIGHT OF SIGNS SHALL BE A MINIMUM OF 12" AND A MAXIMUM OF 24". SIGNS SHALL BE MOUNTED HIGHER AS NEEDED TO MEET FIELD CONDITIONS OR AS DIRECTED BY THE ENGINEER.
- PORTABLE SIGN SUPPORTS SHALL BE STABILIZED IN A MANNER THAT WILL NOT AFFECT THEIR COMPLIANCE WITH NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 2 DEVICES.
- PORTABLE CONSTRUCTION SIGN SUPPORTS SHOULD NOT BE USED FOR DURATION OF MORE THAN 3 DAYS EXCEPT AS OTHERWISE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER. SEE STANDARD SHEET TR-1220.01 - "SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS" FOR SIGN DETAILS.

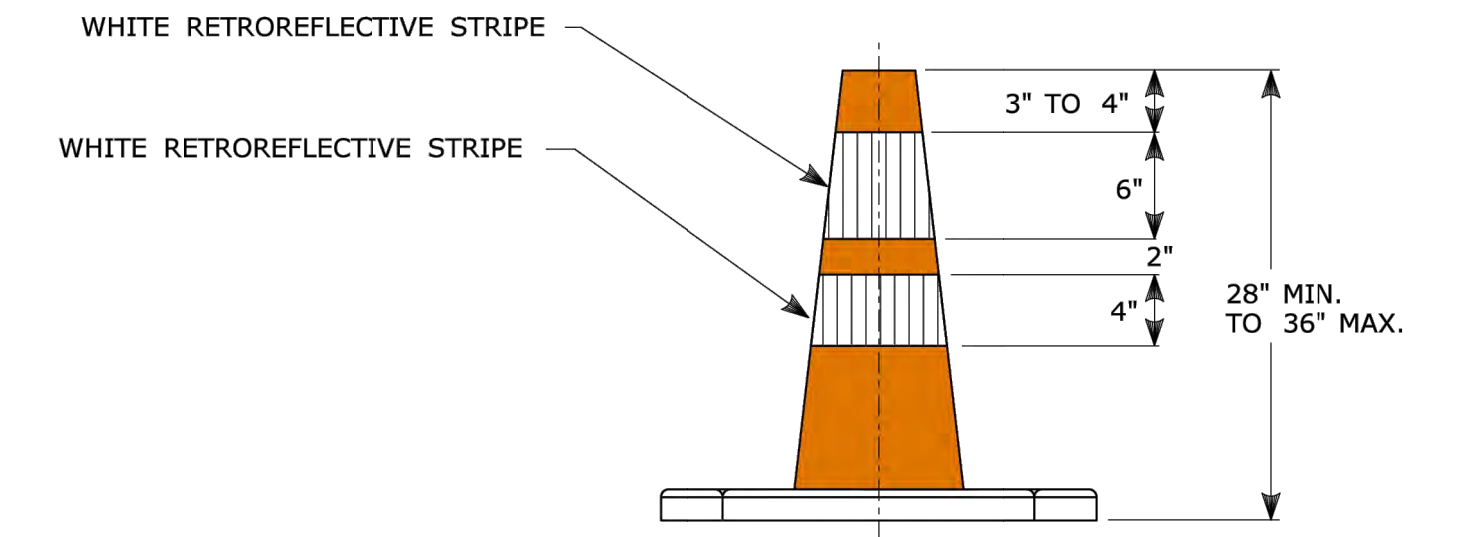
* FOR E5-1 (EXIT SIGNS) USE MIN 48".



42" TRAFFIC CONE

NOTES:

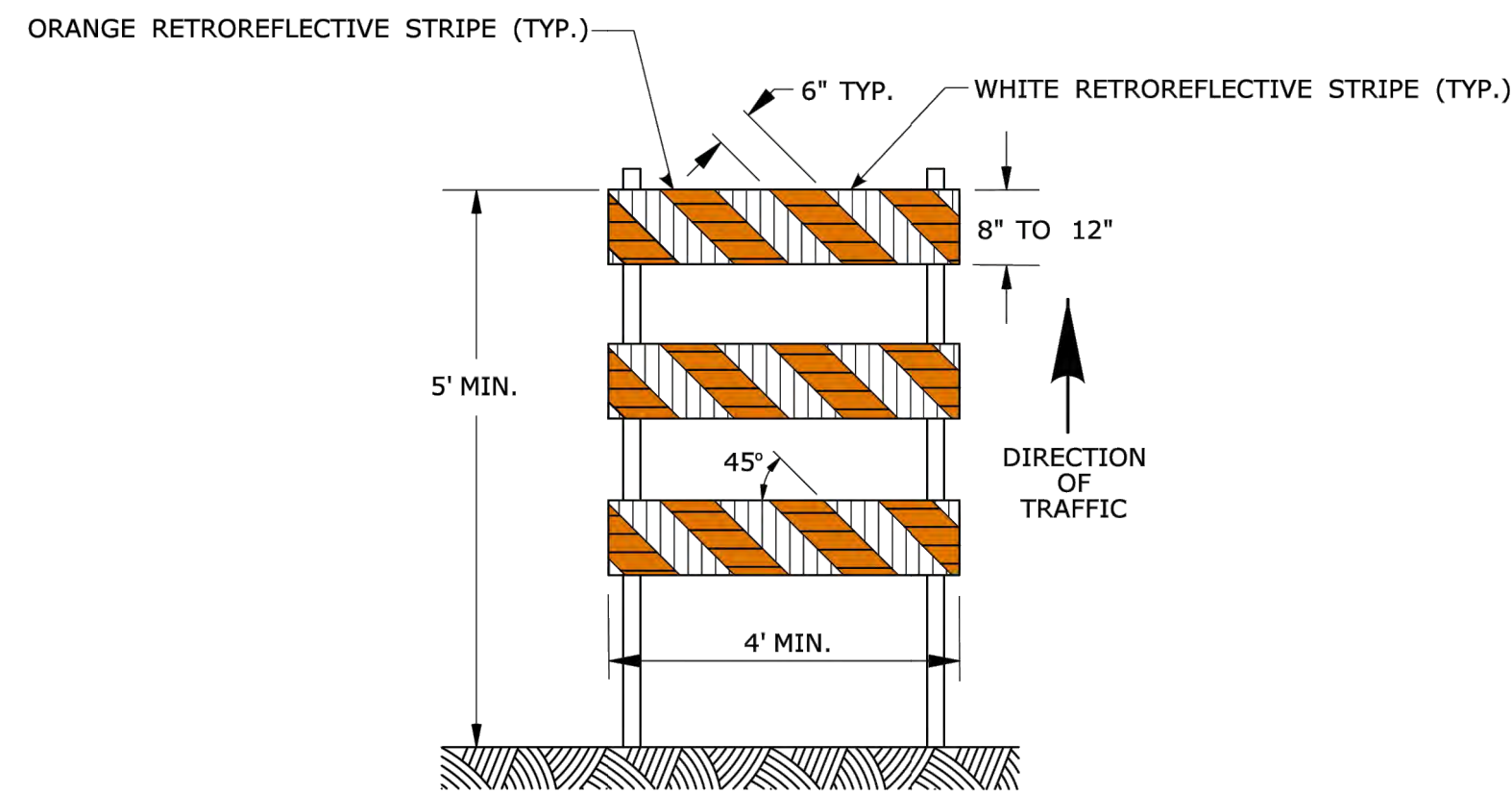
- TRAFFIC CONES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- IF RUBBER CONES ARE USED, THEY SHALL HAVE INTERIOR RIBS FOR RIGIDITY.
- IF PLASTIC CONES ARE USED, THEY SHALL BE COLOR IMPREGNATED.
- THE ENTIRE AREA OF FLUORESCENT ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING.
- THE SECTIONS OF CONES NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.



TRAFFIC CONE

NOTES:

- TRAFFIC CONES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- IF RUBBER CONES ARE USED, THEY SHALL HAVE INTERIOR RIBS FOR RIGIDITY.
- IF PLASTIC CONES ARE USED, THEY SHALL BE COLOR IMPREGNATED.
- THE ENTIRE AREA OF WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING.
- THE SECTIONS OF CONES NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.

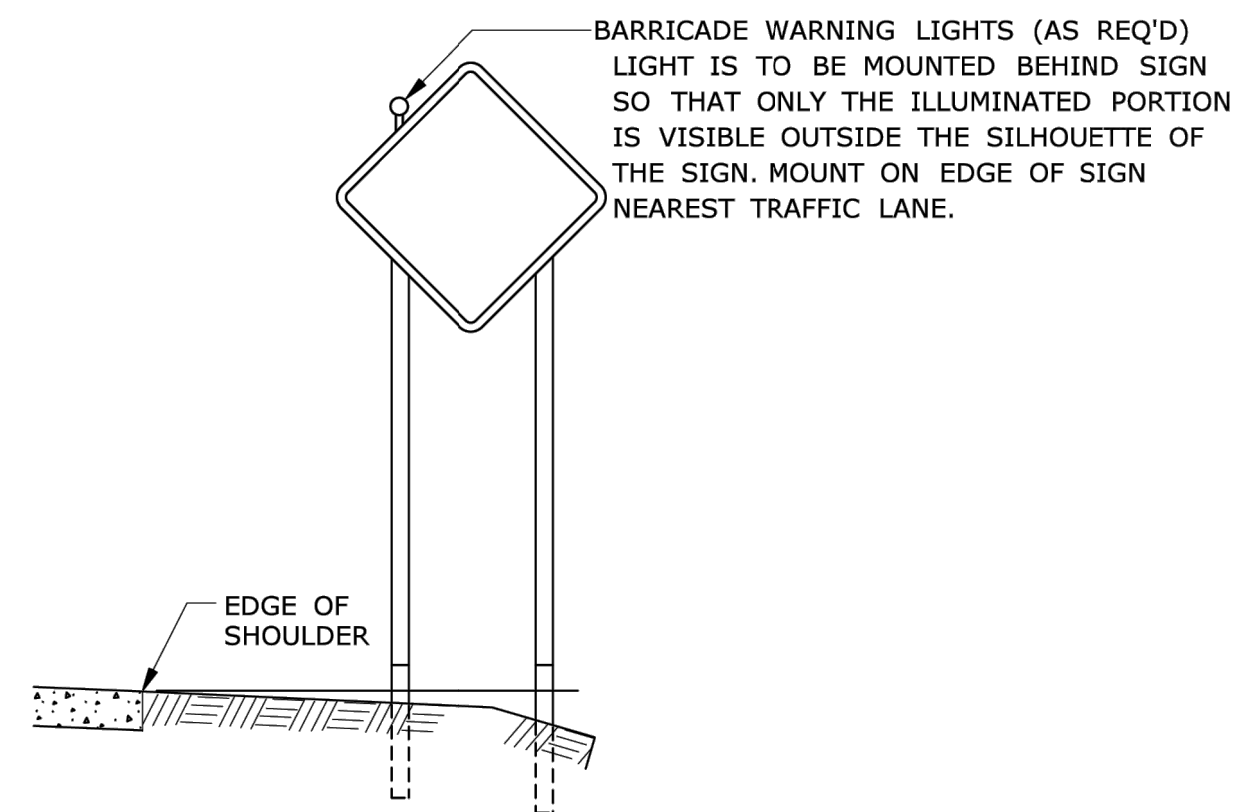


TYPE III BARRICADE

CONSTRUCTION BARRICADES

NOTES:

- CONSTRUCTION BARRICADES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH AND THE LATEST EDITION OF THE MUTCD.
- THE ENTIRE AREA OF ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING THE SIDES OF BARRICADES FACING TRAFFIC SHALL HAVE RETROREFLECTIVE RAIL FACES.
- CORNERS OF BARRICADE RAILS SHALL BE ROUNDED.
- SIGNS INSTALLED ON TYPE III BARRICADES SHALL BE PLACED SO AS TO COVER NO MORE THAN 50 PERCENT OF THE TOP TWO RAILS, OR 33 PERCENT OF THE TOTAL AREA OF THE THREE RAILS.
- CONSTRUCTION BARRICADES SHALL BE STABILIZED IN A MANNER THAT WILL NOT AFFECT THEIR COMPLIANCE WITH NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 2 DEVICES.



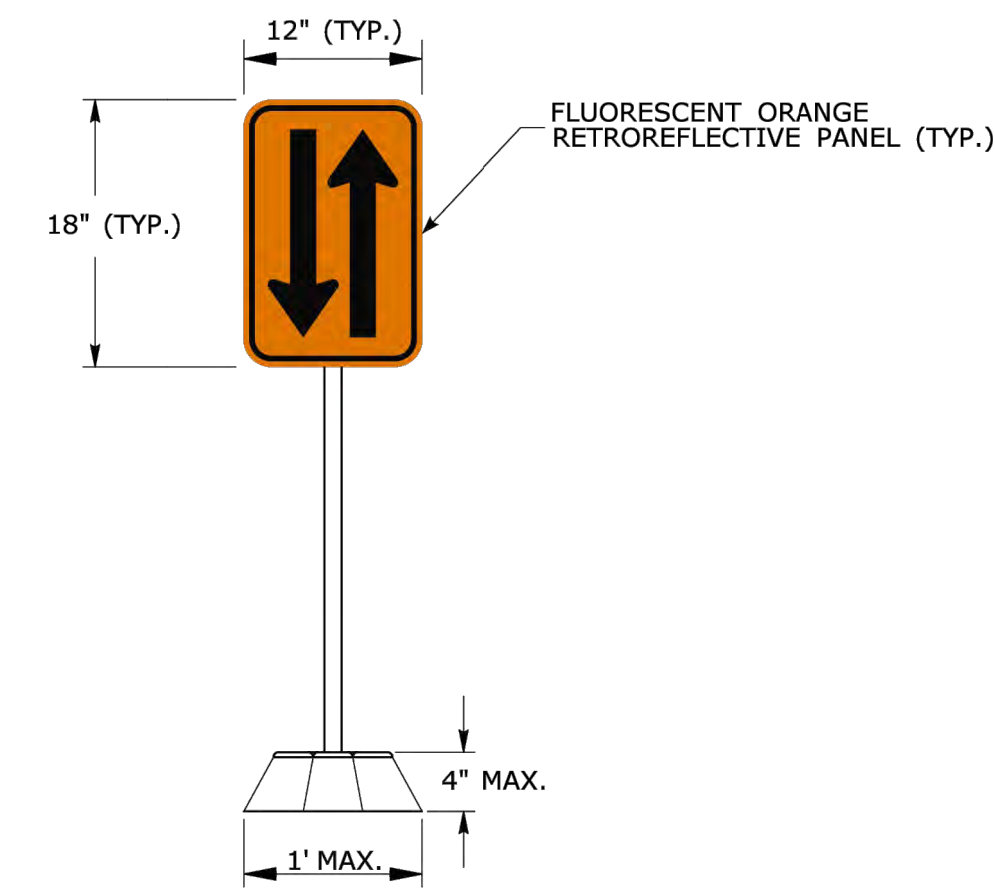
PLACEMENT OF BARRICADE WARNING LIGHTS ON CONSTRUCTION SIGNS

NOTES:

- SUPPORTS SHALL BE METAL SIGN POSTS AND HAVE BREAK-AWAY FEATURES.
- REFER TO STANDARD SHEETS:
TR-1208.01 - "SIGN PLACEMENT AND RETROREFLECTIVE STRIP DETAILS."
TR-1208.02 - "METAL SIGN POSTS AND SIGN MOUNTING DETAILS."

GENERAL NOTE:

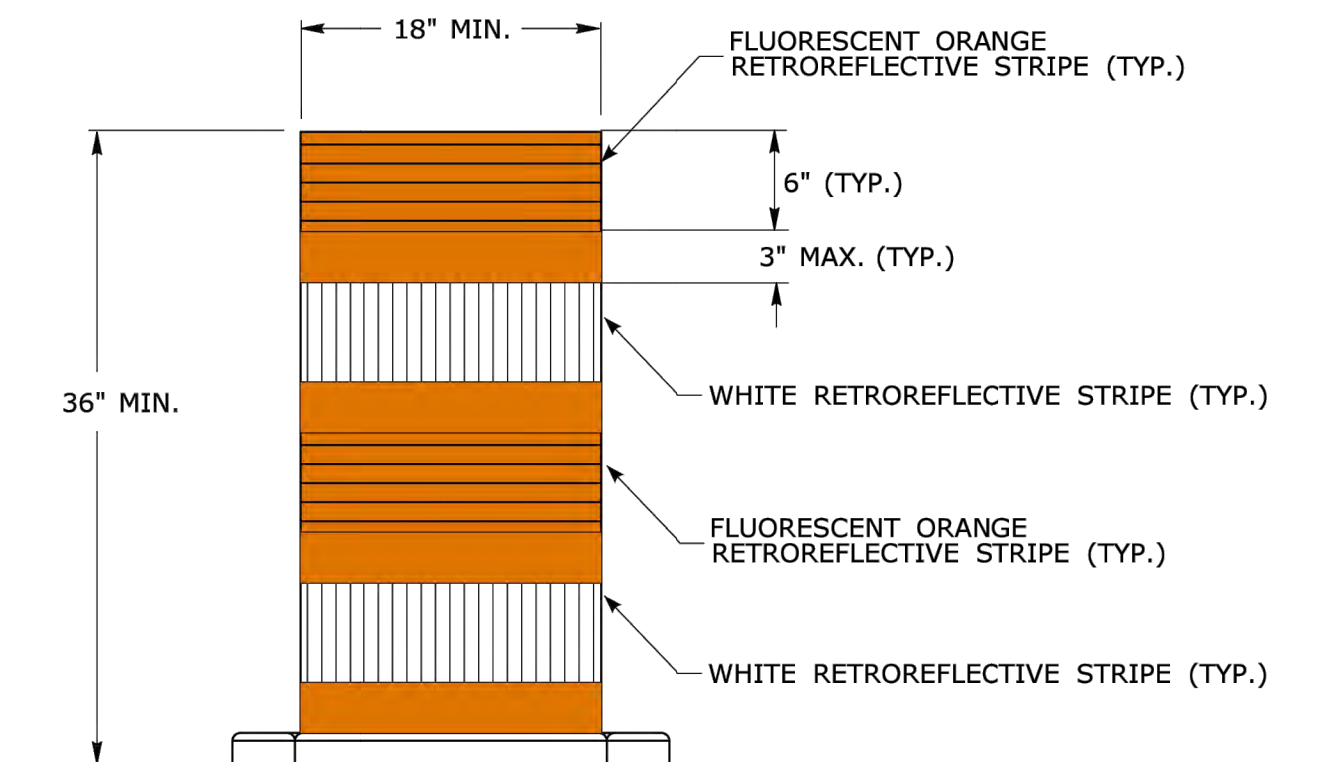
FLEXIBLE SHEETING FOR DRUMS, CONES, & BARRICADES SHALL BE TYPE IV MINIMUM AS APPROVED IN THE QUALIFIED PRODUCTS LIST.



OPPOSING TRAFFIC LANE DIVIDERS (TEMPORARY LANE SEPARATOR)

NOTES:

- THE OPPOSING TRAFFIC LANE DIVIDERS SHALL BE MOUNTED BACK TO BACK ON A FLEXIBLE SUPPORT POST. THE POST SHALL BE MOUNTED TO A BASE.
- THE LONGITUDINAL BASE SHALL HAVE SLOPING SIDES IN ORDER TO FACILITATE CROSSOVER BY EMERGENCY VEHICLES.

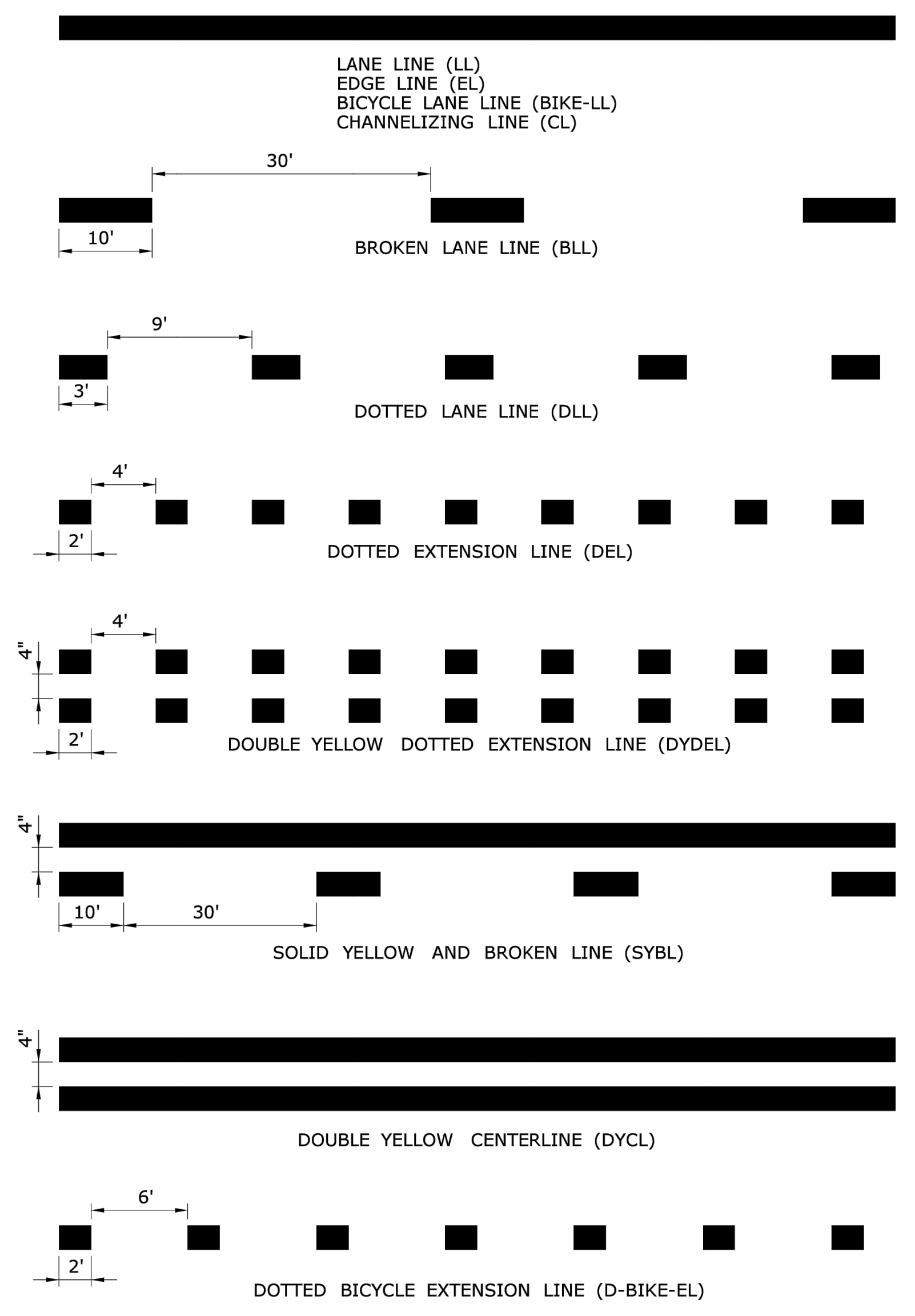


TRAFFIC DRUM FRONT VIEW

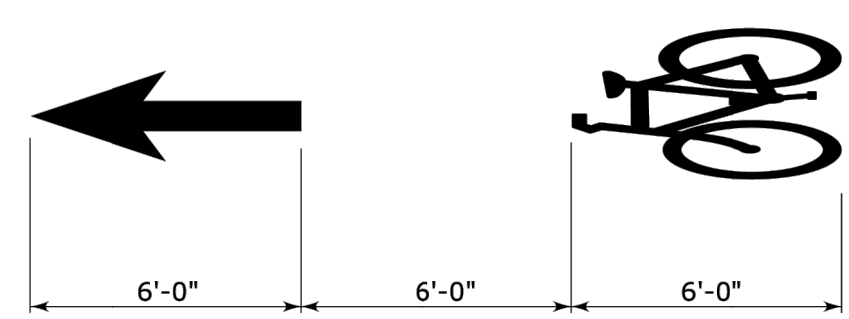
NOTES:

- TRAFFIC DRUM SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- THE ENTIRE AREA OF FLUORESCENT ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING.
- THE SECTIONS OF DRUMS NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.

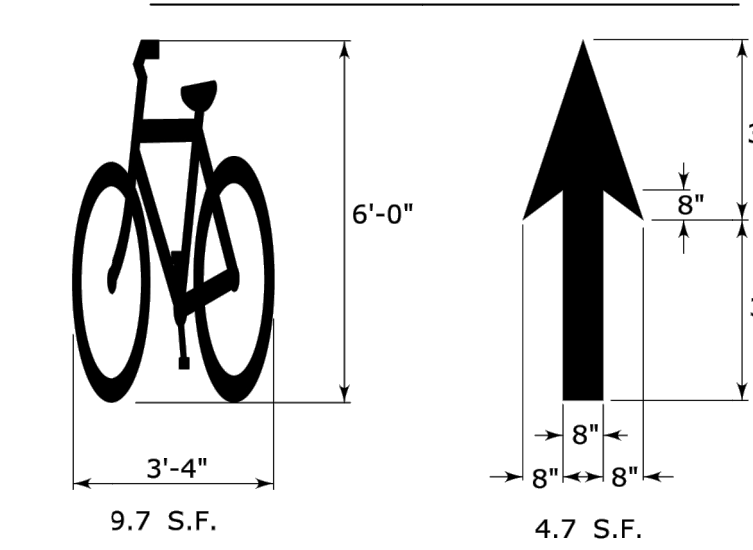
DESIGNER/DRAFTER: BS		TOWN OF AVON	SIGNATURE/BLOCK: AI Engineers 919 MIDDLE STREET MIDDLETOWN, CT 06457	PROJECT TITLE: REPLACEMENT OF TILLOTSON ROAD BRIDGE OVER THOMPSON BROOK	TOWN: AVON	PROJECT NO. 9004-0015
CHECKED BY: SG						DRAWING NO. TRF-06
SCALE AS NOTED		Plotted Date: 4/30/2026	Filename: TRF-03.DWG		DRAWING TITLE: CONSTRUCTION SIGNS -2	SHEET NO.
REV.	DATE					REVISION DESCRIPTION



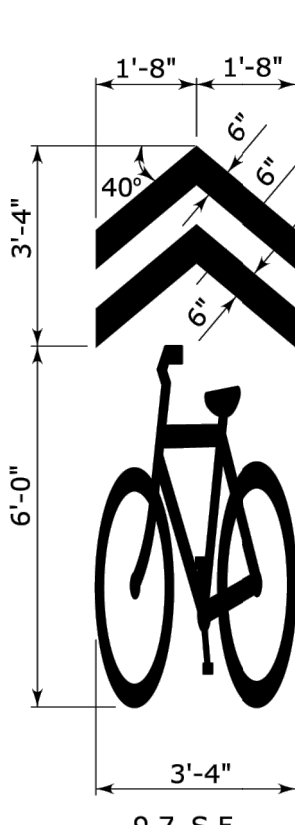
TYPICAL LONGITUDINAL SPACING



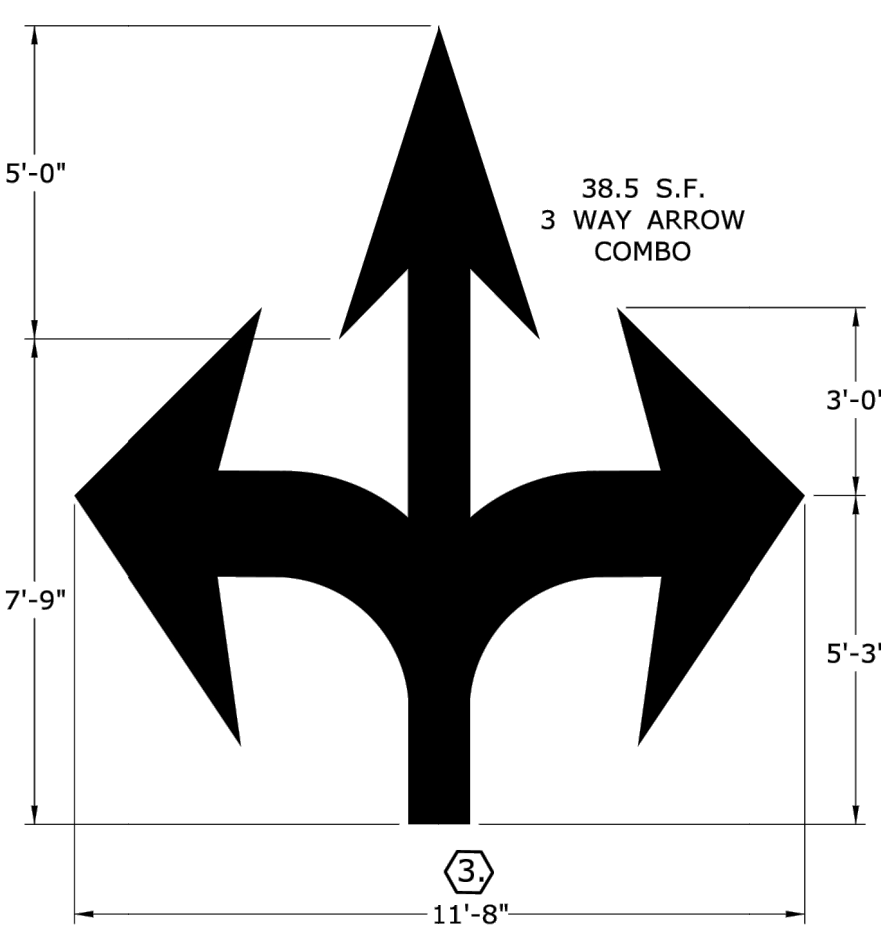
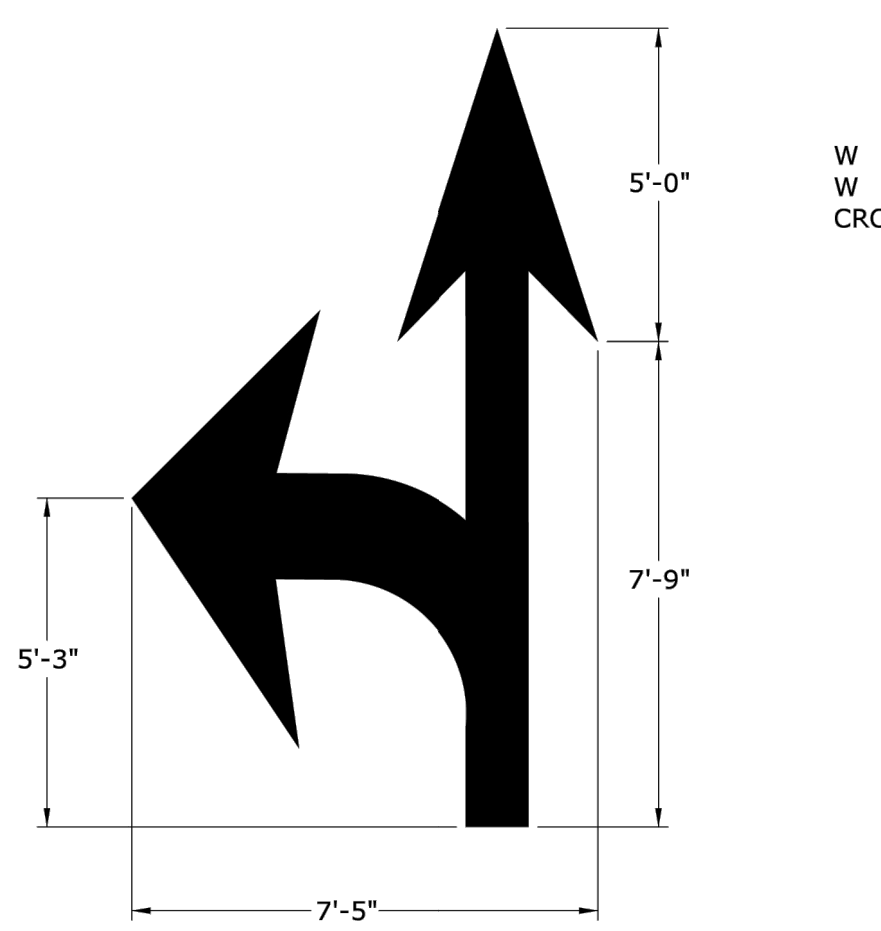
BICYCLE LANE SYMBOL MARKINGS



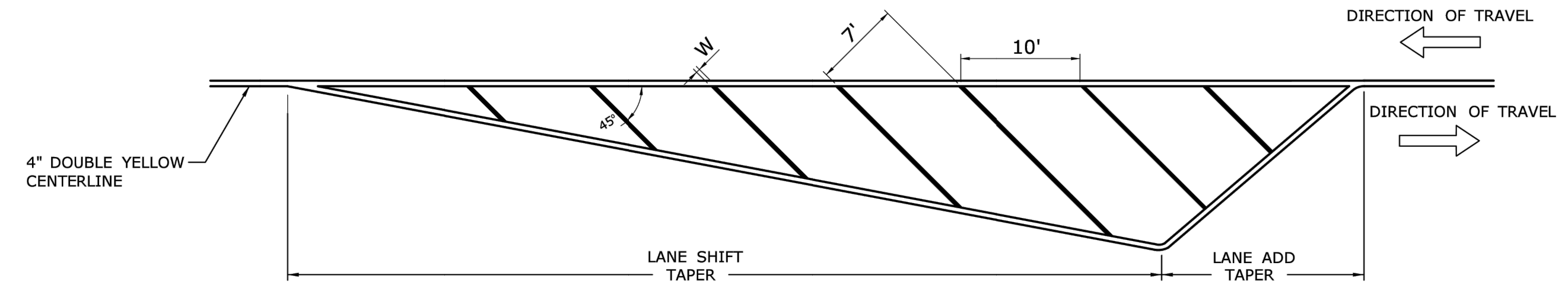
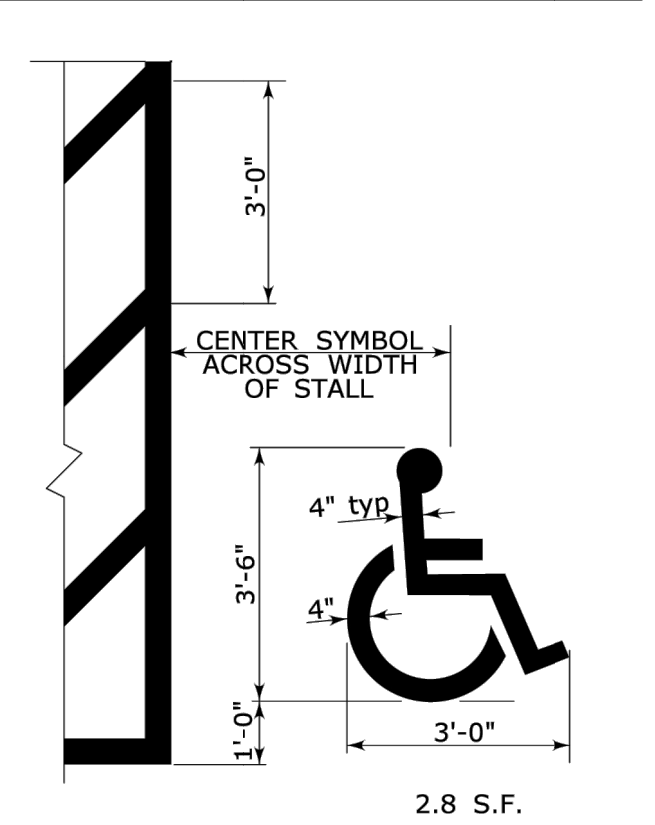
SHARED LANE SYMBOL MARKING



ALL BICYCLE SYMBOL PAVEMENT MARKINGS TO BE WHITE.

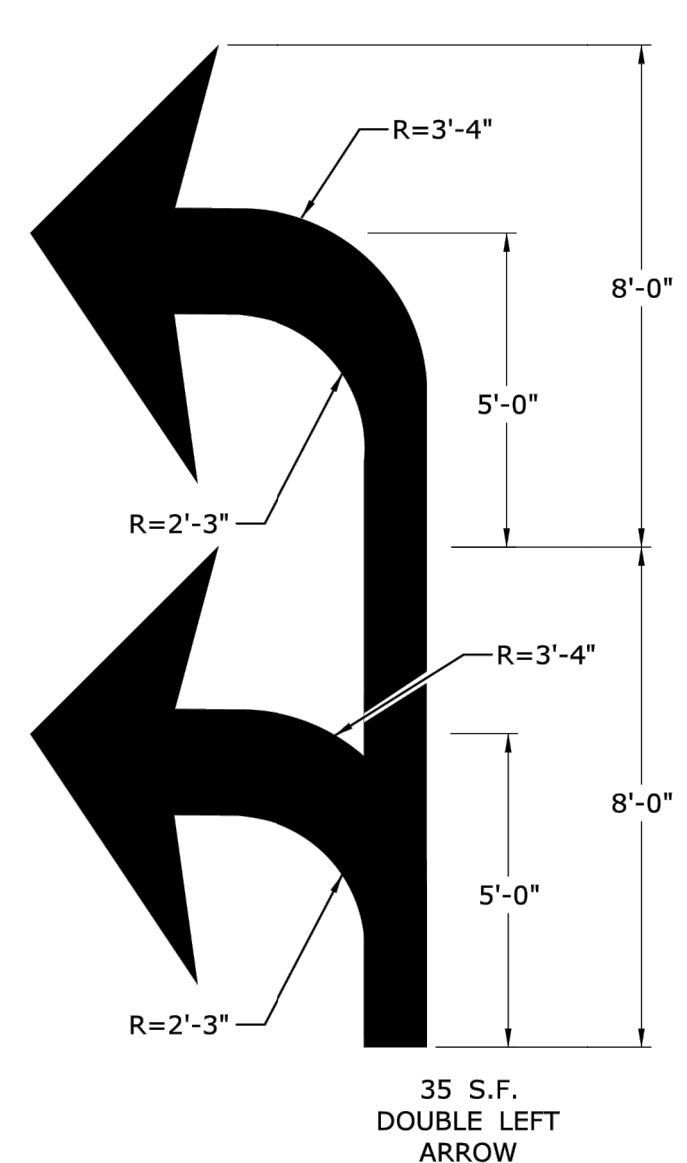
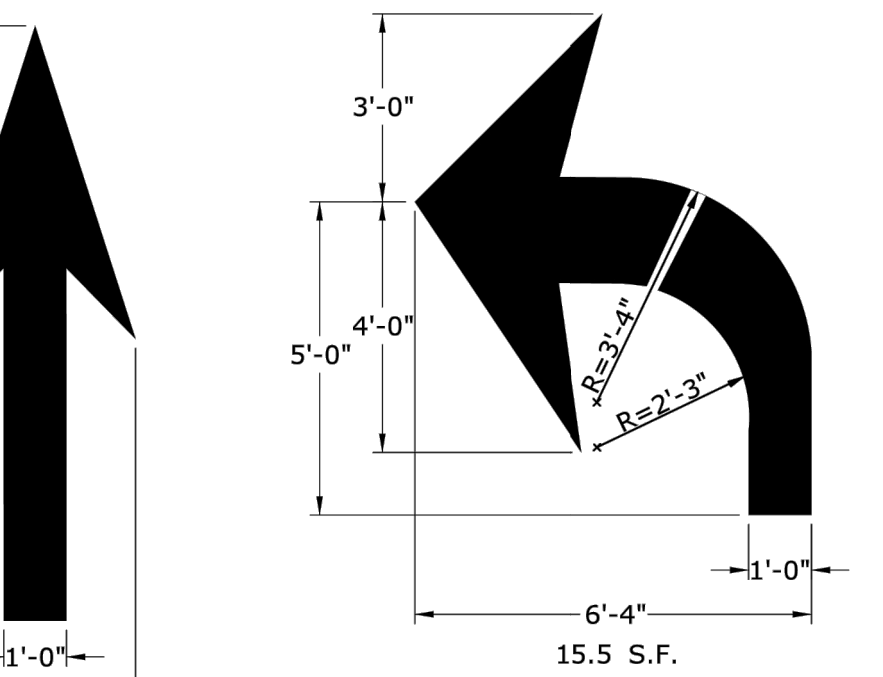
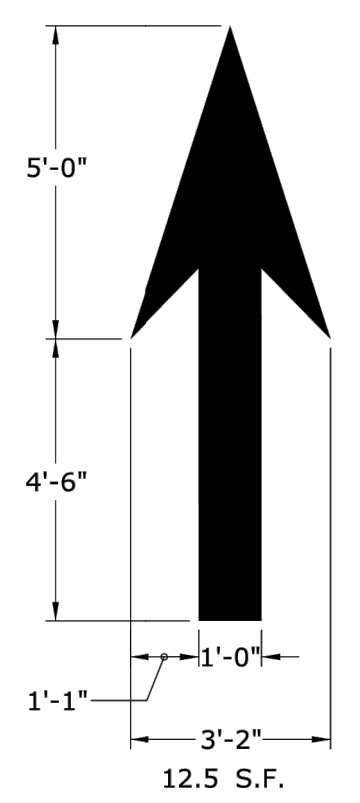


ACCESSIBLE PARKING SPACE SYMBOL



CROSS HATCHED ISLAND DETAIL (YELLOW)

W IS TO BE 8" WHEN POSTED SPEED < 45 MPH
W IS TO BE 12" WHEN POSTED SPEED ≥ 45 MPH
CROSS HATCHED ISLANDS ARE OPTIONAL AND ARE TO BE INSTALLED ONLY WHERE CALLED FOR ON THE PLANS

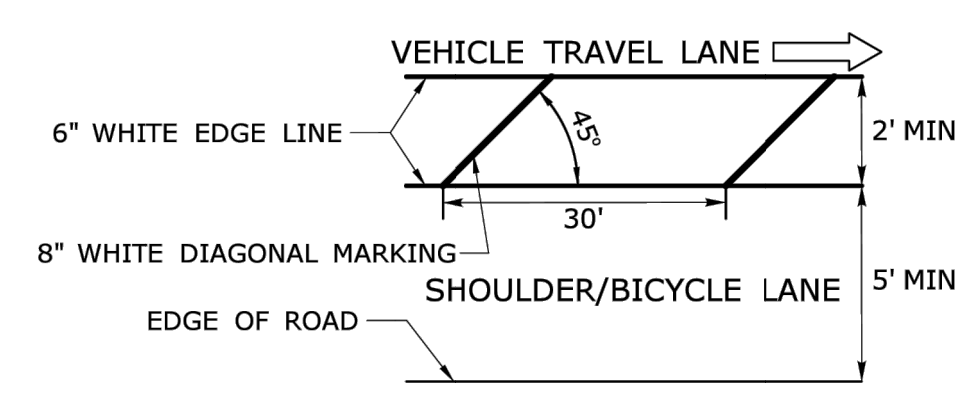


PAVEMENT ARROW DETAILS (WHITE)

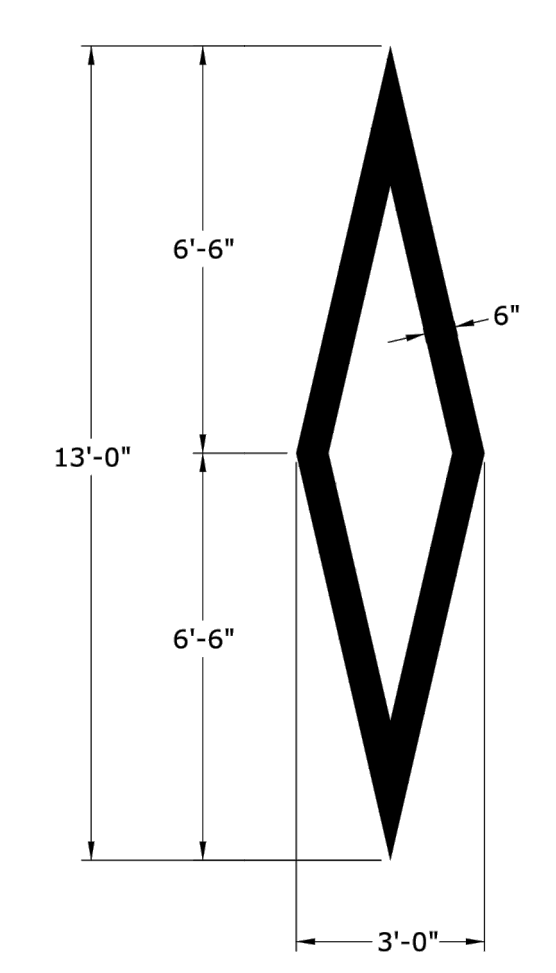
ARROWS SHALL BE CENTERED IN TRAVEL LANE

NOTES :

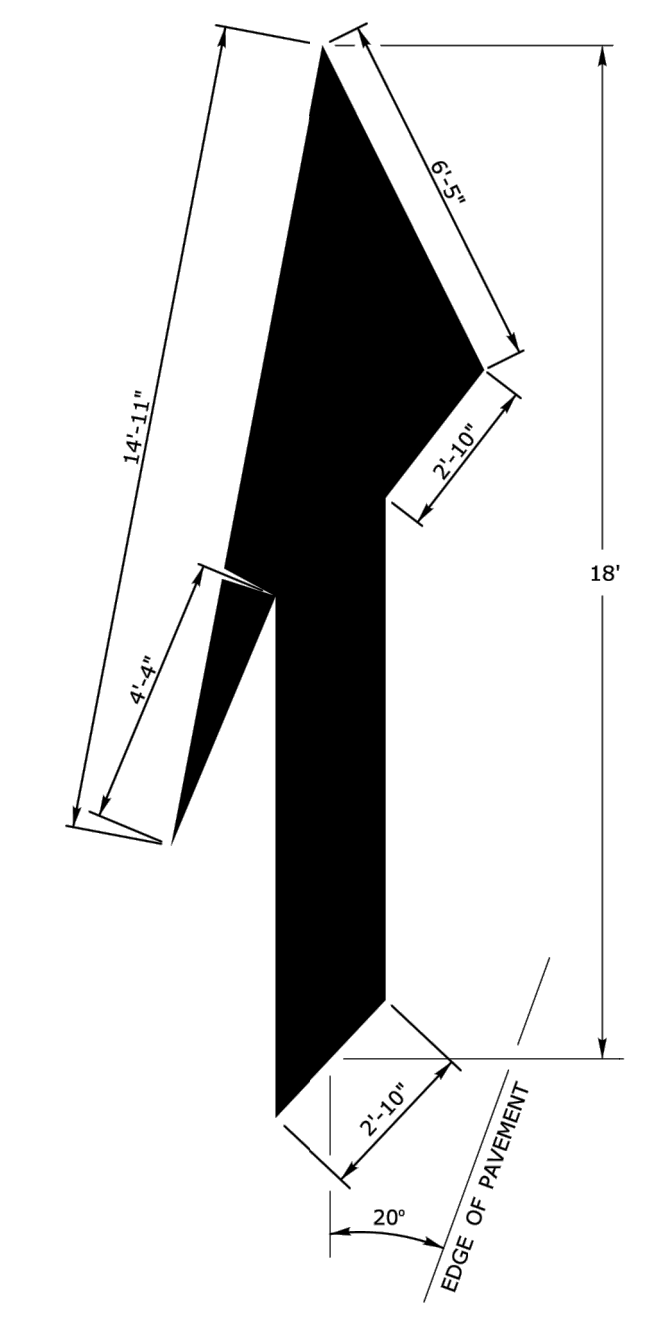
1. AREA OF PAVEMENT MARKINGS AS INDICATED IS APPROXIMATE.
2. RIGHT TURN PAVEMENT MARKING ARROWS ARE MIRROR IMAGE OF LEFT TURN PAVEMENT MARKING ARROWS.
- ③ WIDTH OF COMBINATION PAVEMENT MARKING ARROWS MAY BE REDUCED AS NEEDED BASED ON LANE WIDTH.



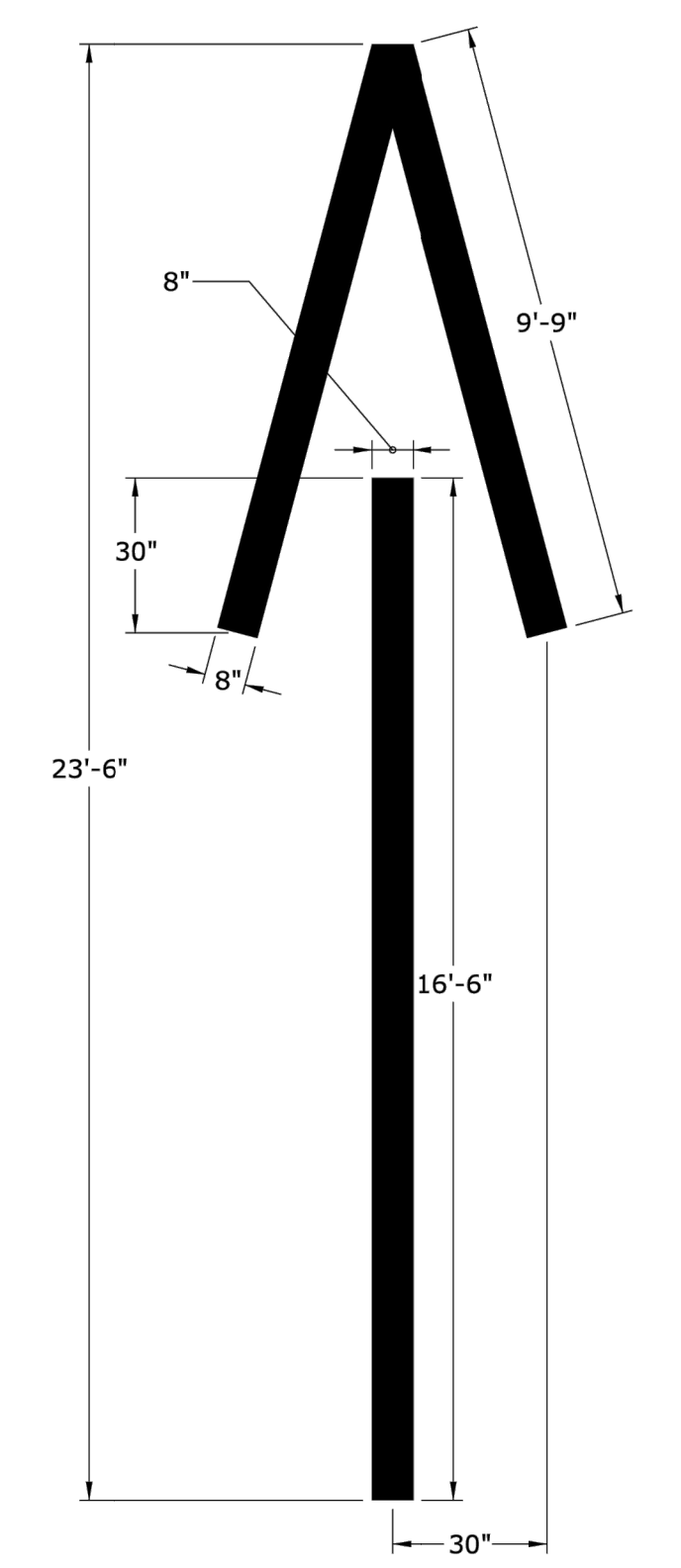
BUFFER DETAIL



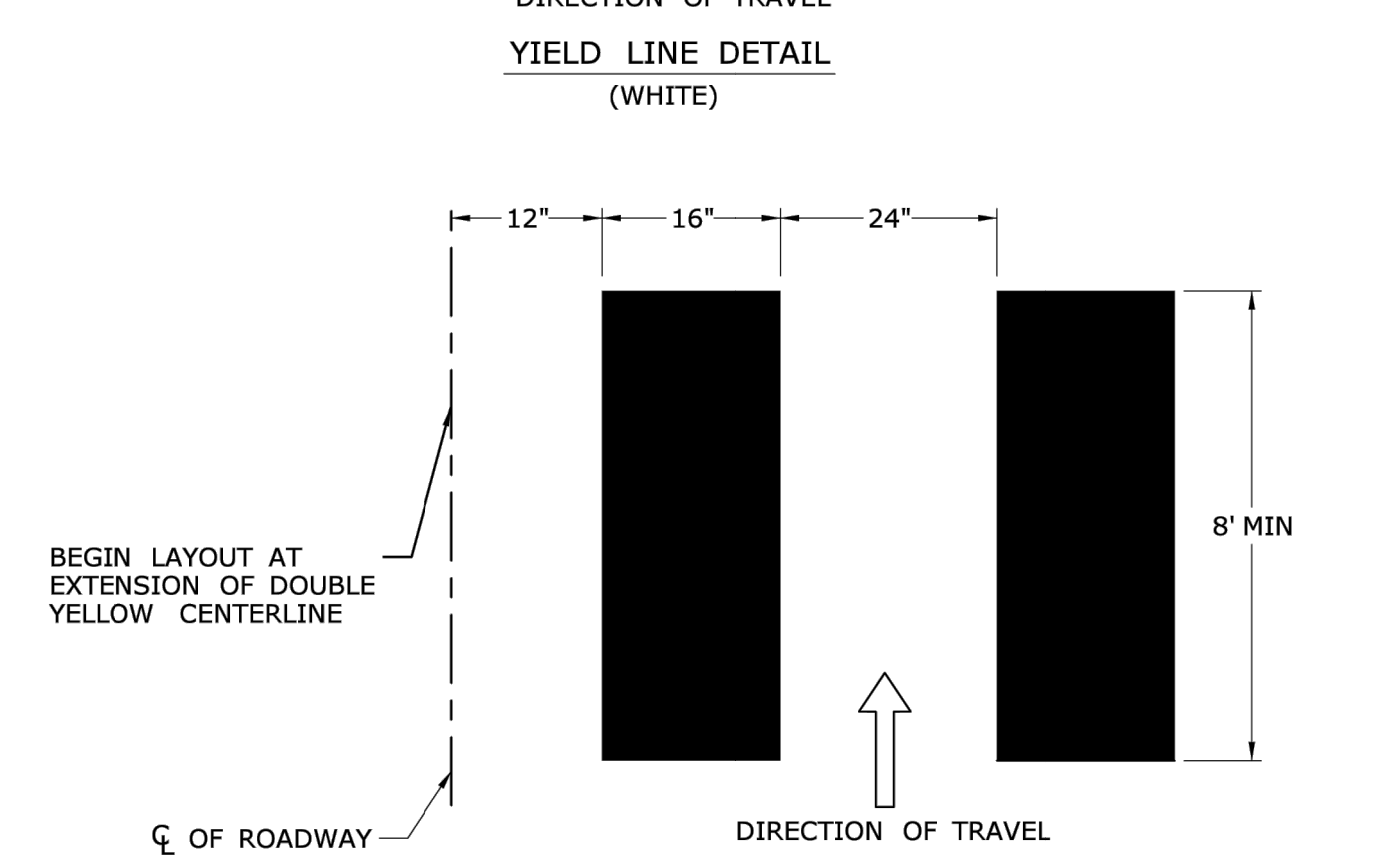
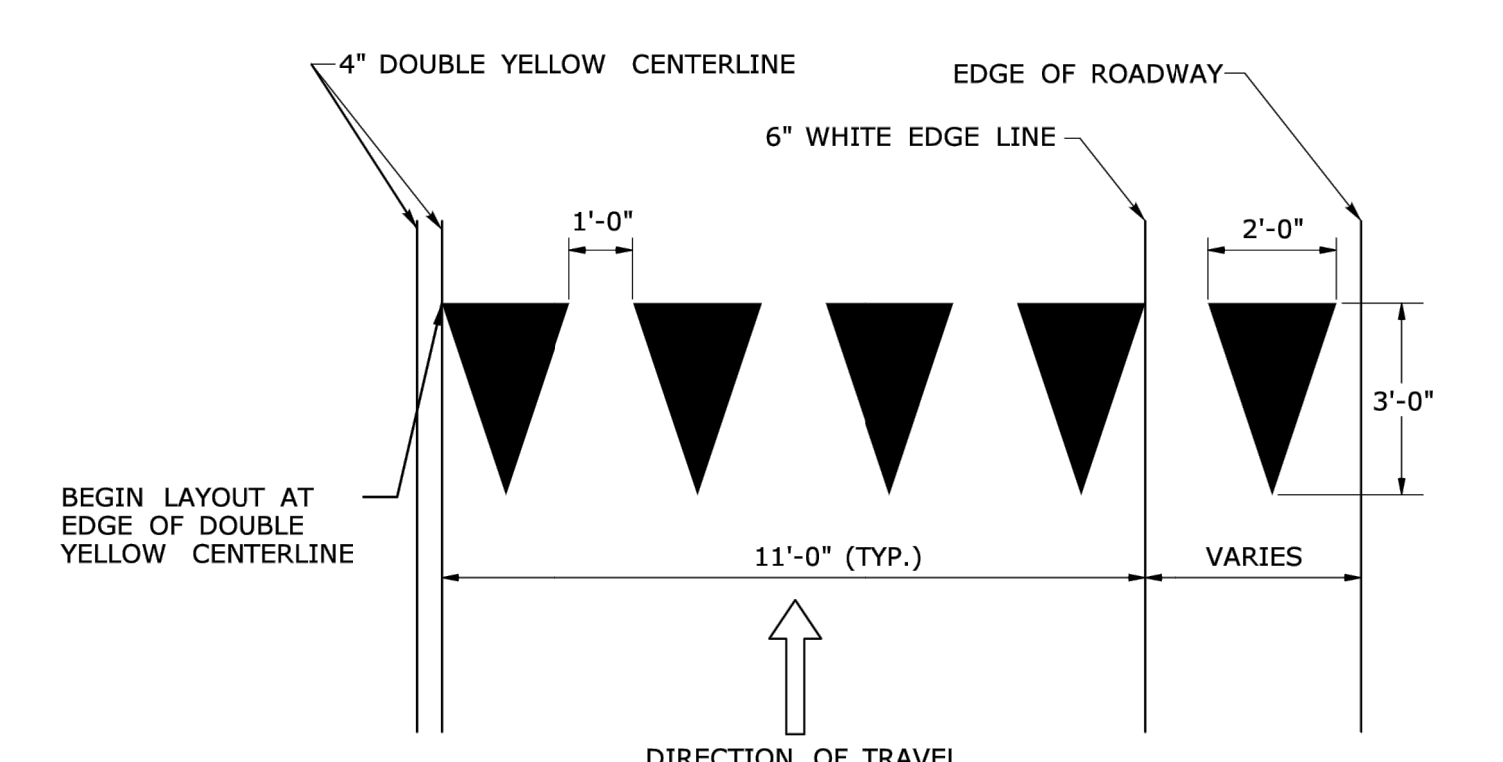
WHITE PREFERENTIAL LANE SYMBOL



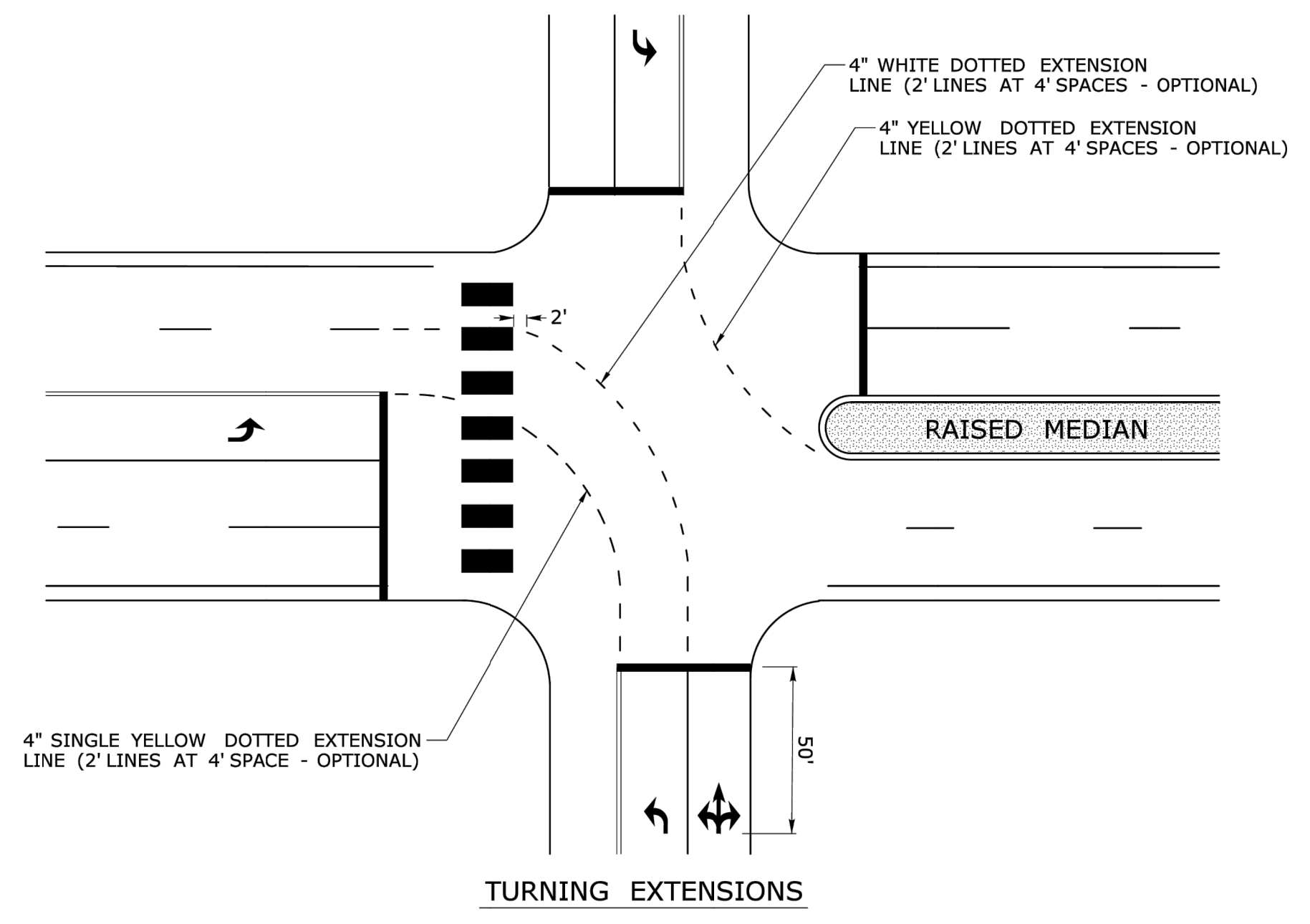
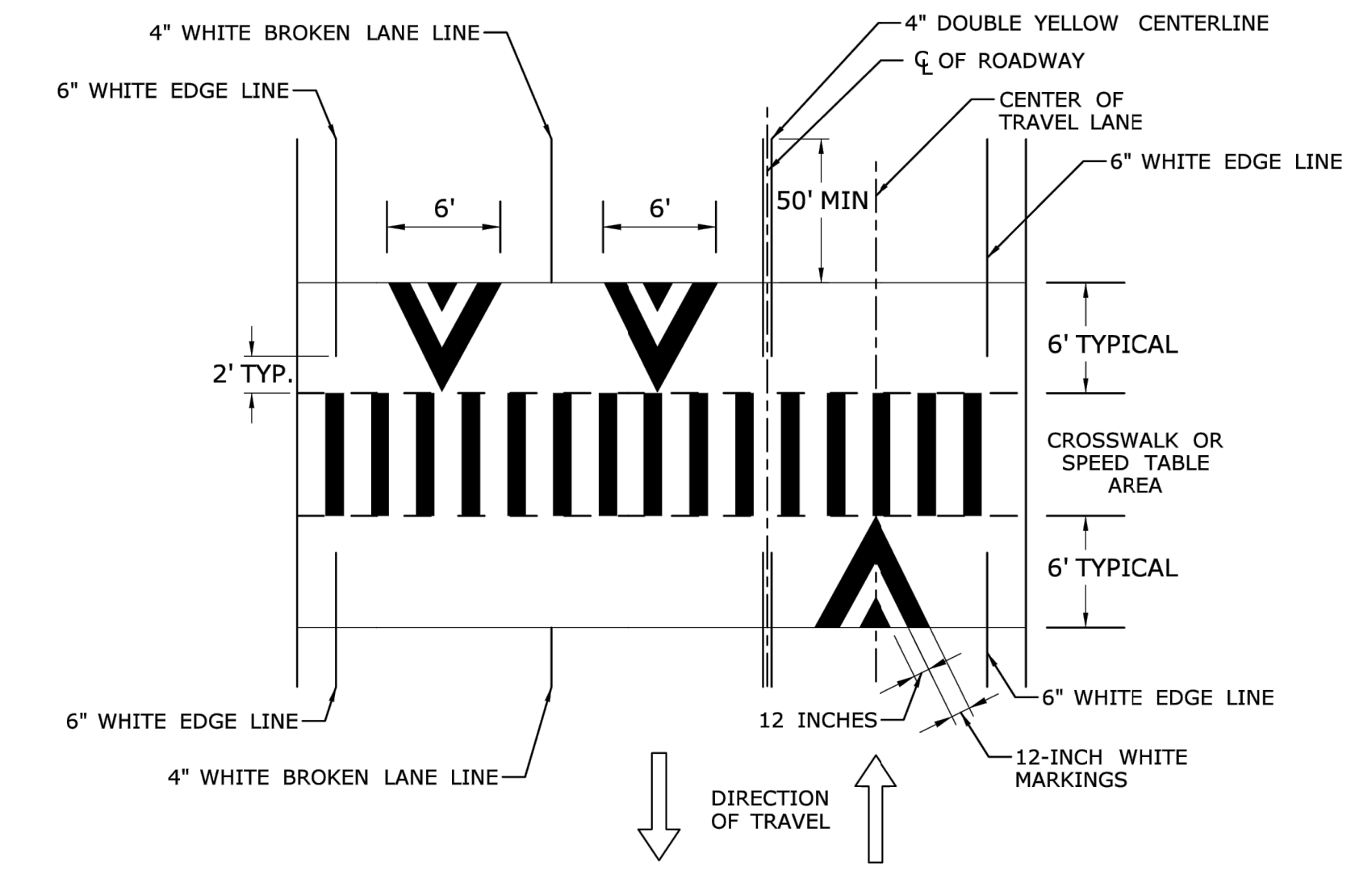
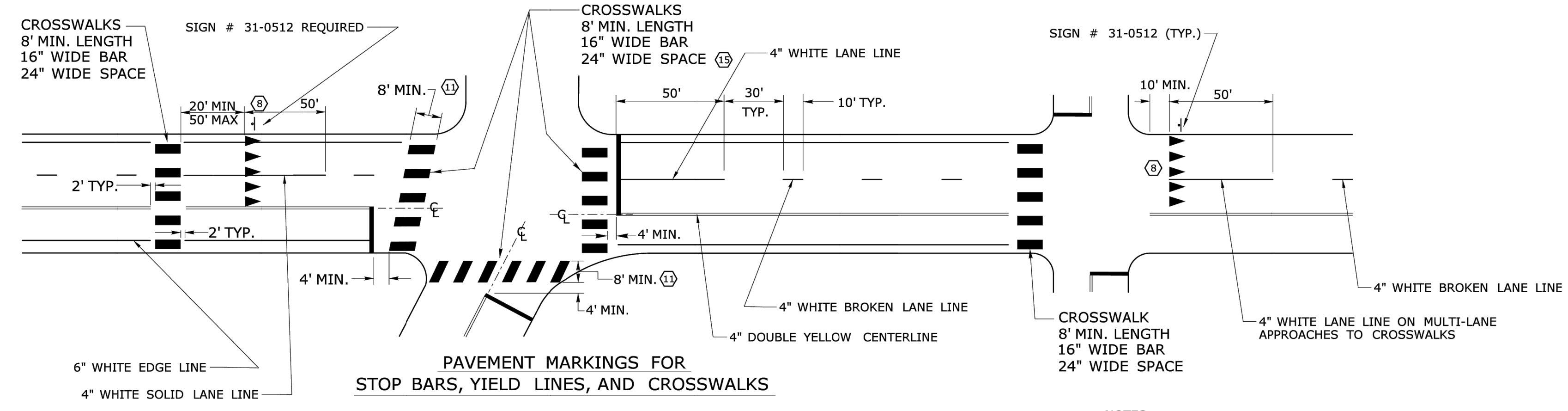
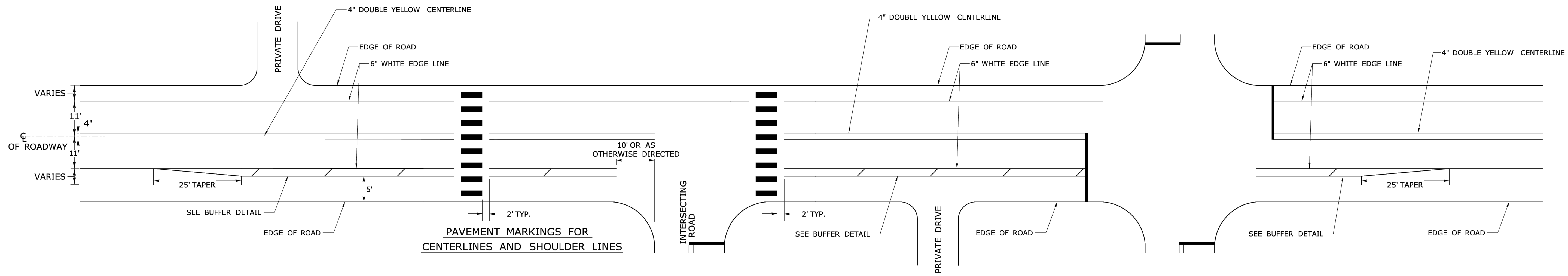
WHITE LANE REDUCTION ARROW



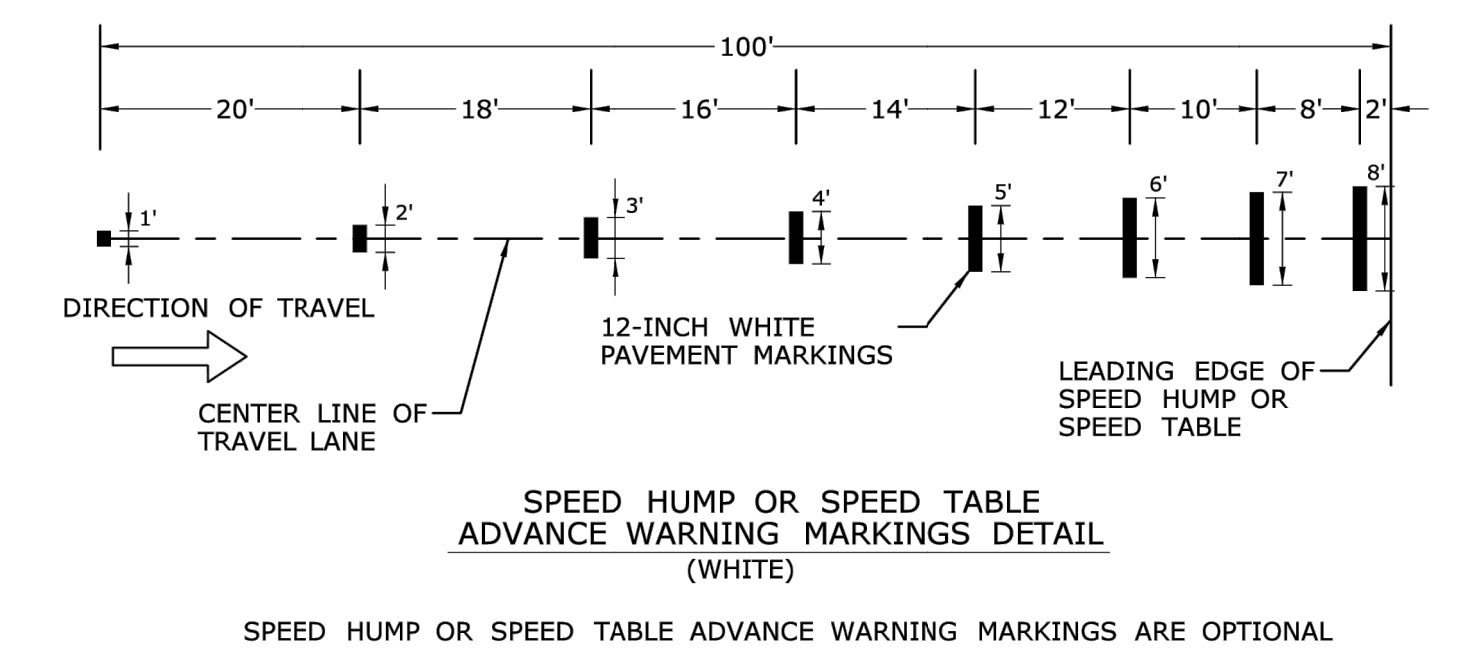
WHITE WRONG WAY PAVEMENT ARROW



DESIGNER/DRAFTER: BS	TOWN OF AVON	SIGNATURE/ BLOCK: 	PROJECT TITLE: REPLACEMENT OF TILLOTSON ROAD BRIDGE OVER THOMPSON BROOK	TOWN: AVON	PROJECT NO. 9004-0015
CHECKED BY: SG					
SCALE AS NOTED	Filename: TRF-04.DWG	919 MIDDLE STREET MIDDLETOWN, CT 06457	DRAWING TITLE: PAVEMENT MARKINGS-1	DRAWING NO. TRF-07	SHEET NO.
REV. DATE REVISION DESCRIPTION SHEET NO. Plotted Date: 4/30/2026					



- NOTES:**
STOP BARS AND YIELD LINES
- STOP BARS AND YIELD LINES SHALL BE WHITE.
 - STOP BARS SHALL BE 12" MIN. UNLESS OTHERWISE NOTED ON PLANS.
 - STOP BARS TO BE PLACED A MINIMUM OF 4' IN ADVANCE OF THE NEAREST EDGE OF CROSSWALK AND SHOULD BE PLACED 90° TO THE CENTERLINE OF THE ROADWAY.
 - IN THE ABSENCE OF A MARKED CROSSWALK THE STOP BAR SHOULD BE PLACED 90° THE CENTERLINE OF THE ROADWAY, AT THE DESIRED STOPPING POINT AT LEAST 5' AND NO MORE THAN 30' FROM THE NEAREST EDGE OF THE INTERSECTING ROADWAY.
 - THE STOP SIGN SHOULD BE PLACED IN LINE WITH THE STOP BAR. HOWEVER, IF THE STOP SIGN CANNOT BE LOCATED EXACTLY WHERE VEHICLES ARE EXPECTED TO STOP, THE STOP BAR SHOULD BE PLACED AT THE STOPPING POINT.
 - FOR STOP BARS AT RAMP SEE DETAILS "R", "S", "T", & "U" AND NOTES ON TRAFFIC STANDARD SHEET TR-1210 07 "PAVEMENT MARKINGS FOR DIVIDED HIGHWAYS EXIT RAMP".
 - FOR YIELD LINE INSTALLATIONS, ONLY FULL TRIANGLES ARE TO BE INSTALLED.
 - YIELD LINES SHALL ONLY BE INSTALLED ON UNCONTROLLED MULTI-LANE APPROACHES TO CROSSWALKS AND SHOULD BE LOCATED 20 TO 50 FEET IN ADVANCE OF THE NEAREST CROSSWALK LINE OR AS DIRECTED BY THE ENGINEER. WHERE A YIELD LINE EXISTS ON AN APPROACH TO A CROSSWALK, THE "YIELD TO PEDESTRIANS" SIGN IS REQUIRED.
 - THE YIELD SIGN SHOULD BE PLACED IN LINE WITH A YIELD LINE. HOWEVER, IF THE YIELD SIGN CANNOT BE LOCATED EXACTLY WHERE VEHICLES ARE EXPECTED TO YIELD, THE YIELD LINE SHOULD BE PLACED AT THE YIELDING POINT.
- CROSSWALKS**
- CROSSWALK MARKINGS SHALL BE WHITE.
 - AT LOCATIONS WHERE THE CROSSWALK IS SKEWED, BARS TO BE PARALLEL TO ENDS OF BARS TO BE PARALLEL. THE LENGTH OF THE BARS WILL VARY DEPENDING ON THE ANGLE OF SKEW.
 - BARS SHOULD BE NO CLOSER THAN 1' FROM EDGE OF ROAD.
 - ONLY FULL LENGTH BARS ARE TO BE INSTALLED.
 - DECORATIVE CROSSWALKS SHALL BE BANDED FROM CURB TO CURB WITH A MINIMUM 12" WIDE WHITE TRANSVERSE LINE ALONG EACH EDGE.
 - 24" WIDE SPACE TO BE CENTERED ON YELLOW CENTERLINE.



THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: BS	TOWN OF AVON	SIGNATURE/ BLOCK: 	PROJECT TITLE: REPLACEMENT OF TILLOTSON ROAD BRIDGE OVER THOMPSON BROOK	TOWN: AVON	PROJECT NO. 9004-0015
		CHECKED BY: SG					
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 4/30/2026	SCALE AS NOTED	Filename: TRF-05.DWG	SHEET NO.