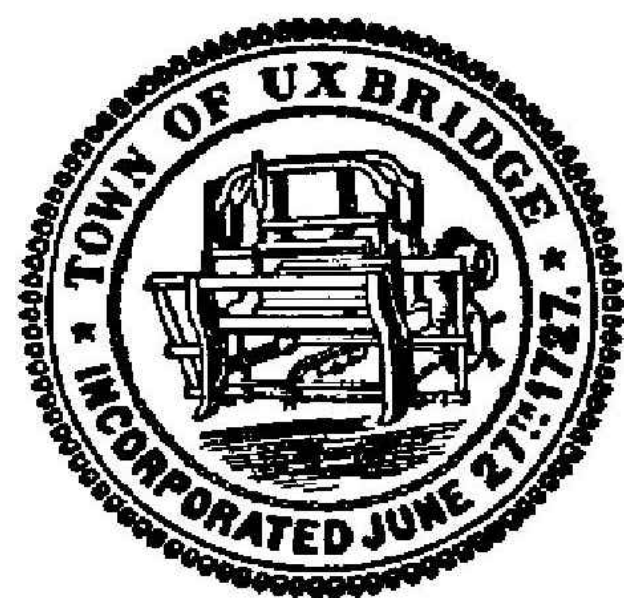


TOWN OF UXBRIDGE, MASSACHUSETTS
DEPARTMENT OF PUBLIC WORKS

SUTTON STREET
CULVERT REPLACEMENT

MARCH 2024



BOARD OF SELECTMEN

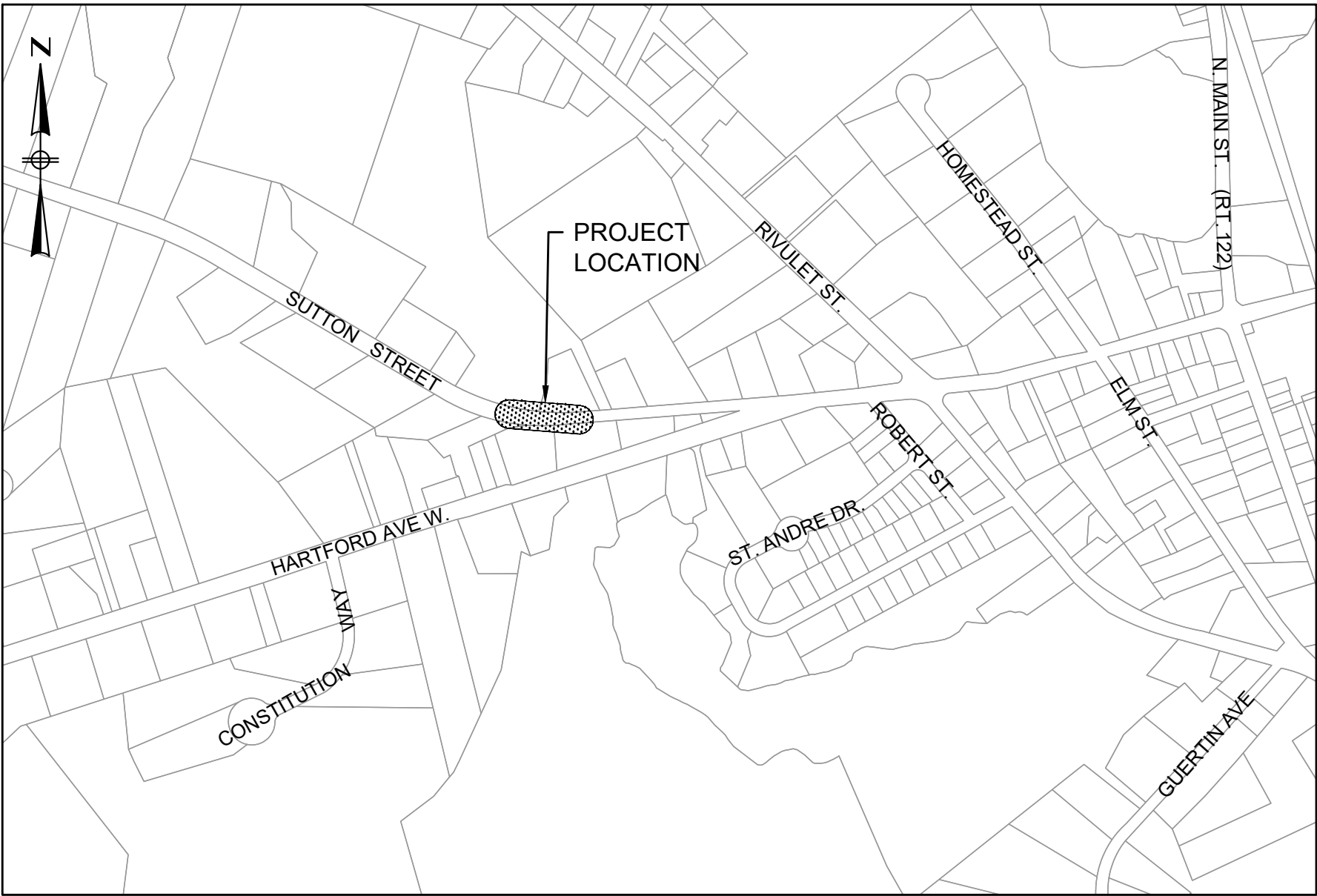
JEFF SHAW, CHAIR
JOHN WISE
BRIAN PLASKO
STEPHEN MANDILE
PETER DeMERS

TOWN MANAGER

STEVEN SETTE

DEPARTMENT OF PUBLIC WORKS

BENN S. SHERMAN, P.E., DIRECTOR
PAUL HUTNAK, P.E., ASSISTANT DIRECTOR



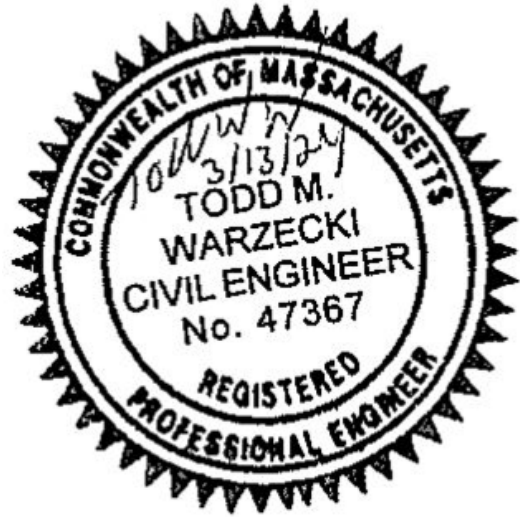
PROJECT LOCATION

SCALE: 1" = 500'

PLAN INDEX

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
1	COVER SHEET
2	LEGEND & ABBREVIATIONS
3	CONSTRUCTION PLAN AND PROFILE
4	SITE BLOWUP CONSTRUCTION PLAN
5	CULVERT COVER SHEET
6	BORINGS
7	STRUCTURAL DETAILS
8	HEADWALL FOOTING PLAN
9	THRIE BEAM DETAILS
10-11	DETOUR PLAN

PREPARED BY:



3/13/2024 2:54 PM N:\700S\7063 - UXBRIDGE - SUTTON STREET\DRAWING FILES\PLANSET\7063_002_LEGEND.DWG (BETA STB BW STB)

LEGEND

GENERAL SYMBOLS

EXISTING	PROPOSED	
		CURB OR BERM (TYPE AS NOTED)
		EDGE OF PAVEMENT
		CATCH BASIN (OR GUTTER INLET, LEACHING BASIN, DROP INLET, CATCH BASIN CURB INLET)
		ELECTRIC HANDHOLE (NUMBER AS NOTED)
		ELECTRIC MANHOLE
		TELEPHONE MANHOLE
		WATER MANHOLE
		SEWER MANHOLE
		DRAINAGE MANHOLE
		GAS GATE
		GAS GATE
		WATER GATE
		CURB STOP
		HYDRANT
		FIRE ALARM BOX
		PARKING METER
		STREET LIGHT POLE
		UTILITY POLE
		UTILITY POLE w/ LIGHT
		SIGN
		GUY POLE
		DRAIN PIPE (SIZE AS NOTED)
		SEWER MAIN (SIZE AS NOTED)
		ELECTRIC DUCT
		GAS MAIN (SIZE AS NOTED)
		WATER MAIN (SIZE AS NOTED)
		TELEPHONE DUCT (SIZE AS NOTED)
		OVERHEAD WIRE
		MAIL BOX
		WOOD GUARD RAIL STEEL BEAM GUARD, WOOD OR STEEL POSTS (TYPE AS NOTED)
		STEEL GUARD RAIL, STEEL POSTS (TYPE NOTED)
		STONE WALL
		RETAINING WALL (TYPE NOTED)
		HIGHWAY/PROPERTY BOUND (TYPE AS NOTED)
		STATE HIGHWAY LAYOUT LINE (SHLO)
		CITY, TOWN OR COUNTY LAYOUT LINE (R.O.W.)
		CITY, TOWN, COUNTY OR STATE BOUNDARY LINE
		PROPERTY LINE
		EASEMENT LINE (TYPE NOTED)
		CONSTRUCTION BASELINE
		SURVEY LINE
		RAILROAD OR STREET RAILWAY TRACKS WITH SIDELINES
		WHEELCHAIR RAMP
		TREE (SIZE AND TYPE AS NOTED)
		HEDGE/SHRUBS
		FENCE (SIZE AND TYPE AS NOTED)
		EDGE OF WETLAND w/ FLAGGED NUMBER
		EDGE OF RIVER/STREAM LINE
		100-FT. WETLAND BUFFER LIMIT
		100-FT. RIVER FRONT LIMIT
		200-FT. RIVER FRONT LIMIT
		WOODED AREA / LIMIT OF CLEARING
		SPOT GRADE
		SAW CUT LINE
		TEST PIT
		BORING
		EROSION CONTROL BARRIER/COMPOST FILTER TUBES

GENERAL

ABAN	ABANDON
ADJ	ADJUST
ALT	ALTERATION
APPROX	APPROXIMATE
	BASELINE
BB	BITUMINOUS BERM
BC	BITUMINOUS CURB
BD OR BND	BOUND
BLDG	BUILDING
BO	BY OTHERS
BOS	BOTTOM OF SLOPE
BOW	BOTTOM OF WALL
BSW	BACK OF SIDEWALK
CC	CONCRETE CURB
CEM	CEMENT
CLF	CHAIN LINK FENCE
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
DWY	DRIVEWAY
EP, EOP	EDGE OF PAVEMENT
EL	ELEVATION
ESMT	EASEMENT
EXIST	EXISTING
FDN	FOUNDATION
GRAN	GRANITE
GC	GRANITE CURB
HOR	HORIZONTAL
IP	IRON PIPE
JCT	JUNCTION
LP	LOW POINT
MB	MAIL BOX
MHB	MASSACHUSETTS HIGHWAY BOUND
OC	ON CENTER
PCC	POINT OF COMPOUND CURVATURE
PC	POINT OF CURVATURE
PRC	POINT OF REVERSE CURVATURE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
PERM	PERMANENT
PGL	PROFILE GRADE LINE
PROP	PROPOSED
PVC	POINT OF VERTICAL CURVATURE
PVMT	PAVEMENT
R	RADIUS OF CURVATURE
R&D	REMOVE AND DISCARD
R&R	REMOVE AND RESET
R&S	REMOVE AND STACK
REM	REMOVE
REMOD	REMODEL
RET	RETAIN
RR	RAILROAD
RT	RIGHT
SB	SOUTH BOUND OR STONE BOUND
SW	SIDEWALK
SHT	SHEET
SHLD	SHOULDER
STA	STATION
TEMP	TEMPORARY
TOS	TOP OF SLOPE
TOW	TOP OF WALL
TYP	TYPICAL
VAR	VARIABLE
VERT	VERTICAL
VGC	VERTICAL GRANITE CURB
WCR	WHEELCHAIR RAMP

ABBREVIATIONS

R	STEADY CIRCULAR RED
Y	STEADY CIRCULAR AMBER
G	STEADY CIRCULAR GREEN
FR	FLASHING CIRCULAR RED
FY	FLASHING CIRCULAR AMBER
+FY	FLASHING YELLOW LEFT ARROW
R→	STEADY RED RIGHT ARROW
Y→	STEADY AMBER RIGHT ARROW
G→	STEADY GREEN RIGHT ARROW
+R	STEADY RED LEFT ARROW
+Y	STEADY AMBER LEFT ARROW
+G	STEADY GREEN LEFT ARROW
W	STEADY WALK (PERSON WALKING) - LUNAR WHITE
DW	STEADY DON'T WALK (HAND) - PORTLAND ORANGE
FDW	FLASHING DON'T WALK (FLASHING HAND) - PORTLAND ORANGE

UTILITIES

CB	CATCH BASIN
CBCI	CATCH BASIN WITH CURB INLET
CI	CURB INLET
CIP	CAST IRON PIPE
CMP	CORRUGATED METAL PIPE
C	CONDUIT
CPP	CORRUGATED PLASTIC PIPE
CSP	CORRUGATED STEEL PIPE
DI	DUCTILE IRON PIPE
F&C	FRAME AND COVER
F&G	FRAME AND GRATE
FM	FORCE MAIN
GI	GUTTER INLET
GIP	GALVANIZED IRON PIPE
GG	GAS GATE
HYD	HYDRANT
INV	INVERT ELEVATION
LP	LIGHT POLE
MH	MANHOLE
PVC	POLY-VINYL-CHLORIDE PIPE
RCP	REINFORCED CONCRETE PIPE (CLASS III UNLESS NOTED)
SD	SUBDRAIN
SMH	SEWER MANHOLE
TS	TRAFFIC SIGNAL
UP	UTILITY POLE
UPL	UTILITY POLE w/ LIGHT
UPT	UTILITY POLE w/ TRANSFORMER
VCP	VITRIFIED CLAY PIPE
WG	WATER GATE
WM	WATER METER/WATER MAIN

TRAFFIC SIGNAL SYMBOLS

EXISTING	PROPOSED	
		CONTROL CABINET GROUND MOUNTED WITH FOUNDATION
		CONTROL CABINET POLE MOUNTED
		CONTROLLER PHASE
		MAST ARM, SHAFT & BASE (ARM LENGTH AS NOTED)
		VEHICULAR SIGNAL HEAD (ALPHA-NUMERIC DESIGNATION AS NOTED)
		VEHICULAR SIGNAL HEAD, OPTICALLY PROGRAMMED
		VEHICULAR SIGNAL HEAD (REMOVED & RESET)
		FLASHING BEACON
		PEDESTRIAN SIGNAL HEAD
		PEDESTRIAN SIGNAL HEAD, OPTICALLY PROGRAMMED
		PULL BOX 12"x12" OR HANDHOLE
		LOOP DETECTOR
		PEDESTRIAN PUSH BUTTON, SIGN (DIRECTIONAL ARROW AS SHOWN) AND SADDLE
		PRE-EMPTION DETECTOR
		PRE-EMPTION CONFIRMATION STROBE
		SIGNAL CONDUIT (SINGLE RUN)
		SIGNAL CONDUIT (DOUBLE RUN)
		SIGNAL POST & BASE
		MAGNETIC DETECTOR
		SCHOOL ZONE SPEED LIMIT SIGN
		MICROWAVE OR ULTRASONIC DETECTOR
		VIDEO DETECTION CAMERA
		VIDEO DETECTION ZONE

PAVEMENT MARKINGS AND SIGNING SYMBOLS

EXISTING	PROPOSED	
		CROSSWALK, 2 - 12" WHITE LINES (8" WIDTH)
		STOP LINE - 12" WHITE LINE 4' BEHIND CW (TYP.)
		SOLID WHITE EDGE LINE - 4"
		SOLID WHITE CHANNELIZING LINES - 12" (SPACING NOTED)
		SOLID WHITE GORE LINE 12" @ 33°, (SPACING NOTED)
		SOLID WHITE LANE LINE - 4"
		SOLID WHITE PARKING LINE - 4"
		BROKEN WHITE LANE LINE - 4"
		DOTTED WHITE LANE EXTENSION LINE - 4" (2' LINE & 6' GAP)
		DOTTED YELLOW LANE EXTENSION LINE - 4" (2' LINE & 6' GAP)
		BROKEN YELLOW CENTERLINE - 4"
		DOUBLE YELLOW CENTERLINE - 2 - 4" LINES
		SOLID YELLOW EDGE LINE - 4"
		SOLID YELLOW GORE LINE 12" @ 33°, (SPACING NOTED)
		SOLID YELLOW LANE LINE - 4"
		SOLID YELLOW CYCLE TRACK EDGE LINE - 4"
		DOTTED YELLOW CYCLE TRACK CENTERLINE - 4" (3' LINE & 9' GAP)
		SCHOOL ZONE - WHITE
		HANDICAP SYMBOL - WHITE
		PAVEMENT ARROW - WHITE
		LEGEND "ONLY" - WHITE

					DRAWN BY: SD	REGISTERED PROFESSIONAL 	PREPARED BY 	SUBCONSULTANT	SCALE NONE	TITLE Sutton Street Culvert Uxbridge, Massachusetts LEGEND & ABBREVIATIONS	BETA JOB NO. 7063
					DESIGNED BY: SD						ISSUE DATE 3/13/2024
					CHECKED BY: MC						SHEET NO. 2 of 11
NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS							

HIGHWAY GUARD DETAILS

TRAILING ANCHORAGE STA 0+63.0 LT
TRANSITION TO THRIE BEAM STA 0+72.6 TO 0+78.9 LT
GUARDRAIL - TL-3 (SINGLE FACED) THRIE BEAM 0+78.9 TO 0+89.1 LT
CONNECT TO BRIDGE THRIE BEAM 0+89.1 LT

CONNECT TO BRIDGE THRIE BEAM 1+31.4 LT
TRANSITION TO THRIE BEAM STA 1+31.4 TO 1+37.8 LT
GUARDRAIL TANGENT END TREATMENT, TL-3 STA 1+68.0 LT

GUARDRAIL TANGENT END TREATMENT, TL-3 STA 0+97.0 RT
TRANSITION TO THRIE BEAM STA 1+33.3 TO 1+39.7 RT
GUARDRAIL - TL-3 (SINGLE FACED) THRIE BEAM STA 1+39.7 TO 2+42.7 RT
TRANSITION TO THRIE BEAM STA 2+42.7 TO 2+48.8 RT
TRAILING ANCHORAGE STA 2+58.0 RT

PAVEMENT NOTES

FULL DEPTH PAVEMENT

SURFACE COURSE: 1-3/4" TOP COURSE OVER
ASPHALT EMULSION FOR TACK COAT (RS-1H) OVER

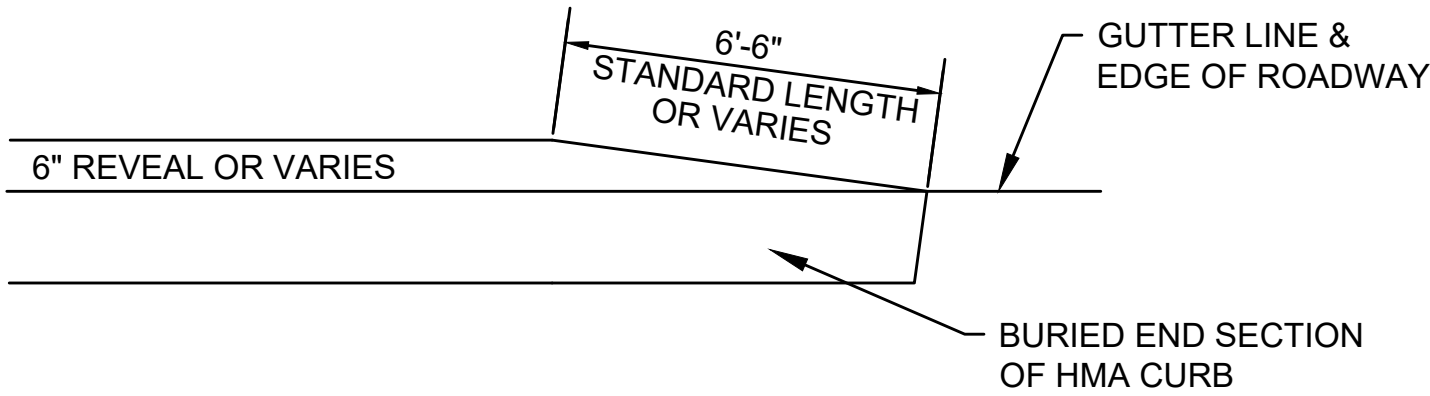
INTERMEDIATE COURSE: 1-3/4" BINDER COURSE OVER
ASPHALT EMULSION FOR TACK COAT (RS-1H) OVER

BASE COURSE: 3-1/2" BASE COURSE OVER

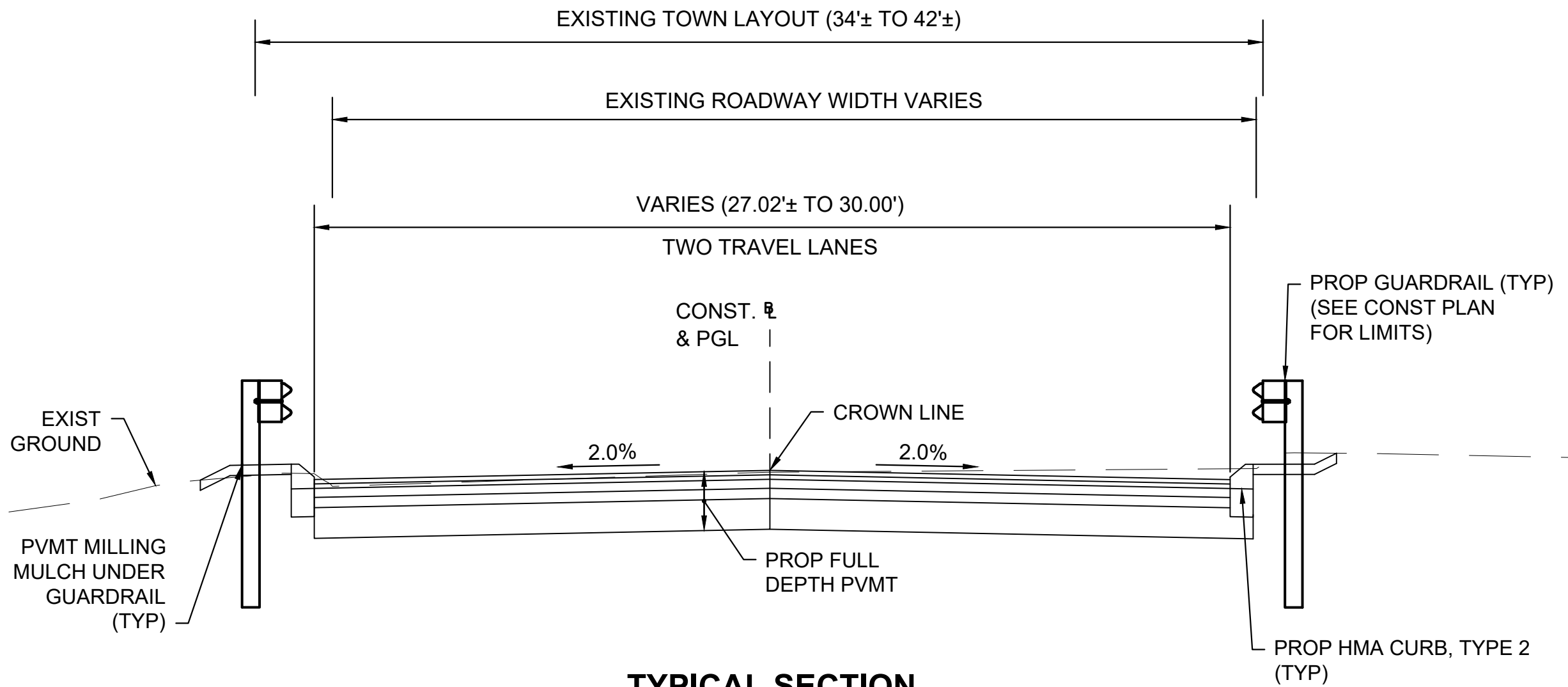
SUB-BASE: 4" DENSE GRADED CRUSHED STONE FOR SUB-BASE OVER
8" GRAVEL BORROW TYPE b (M1.03.01)

PROJECT TACK COAT NOTES

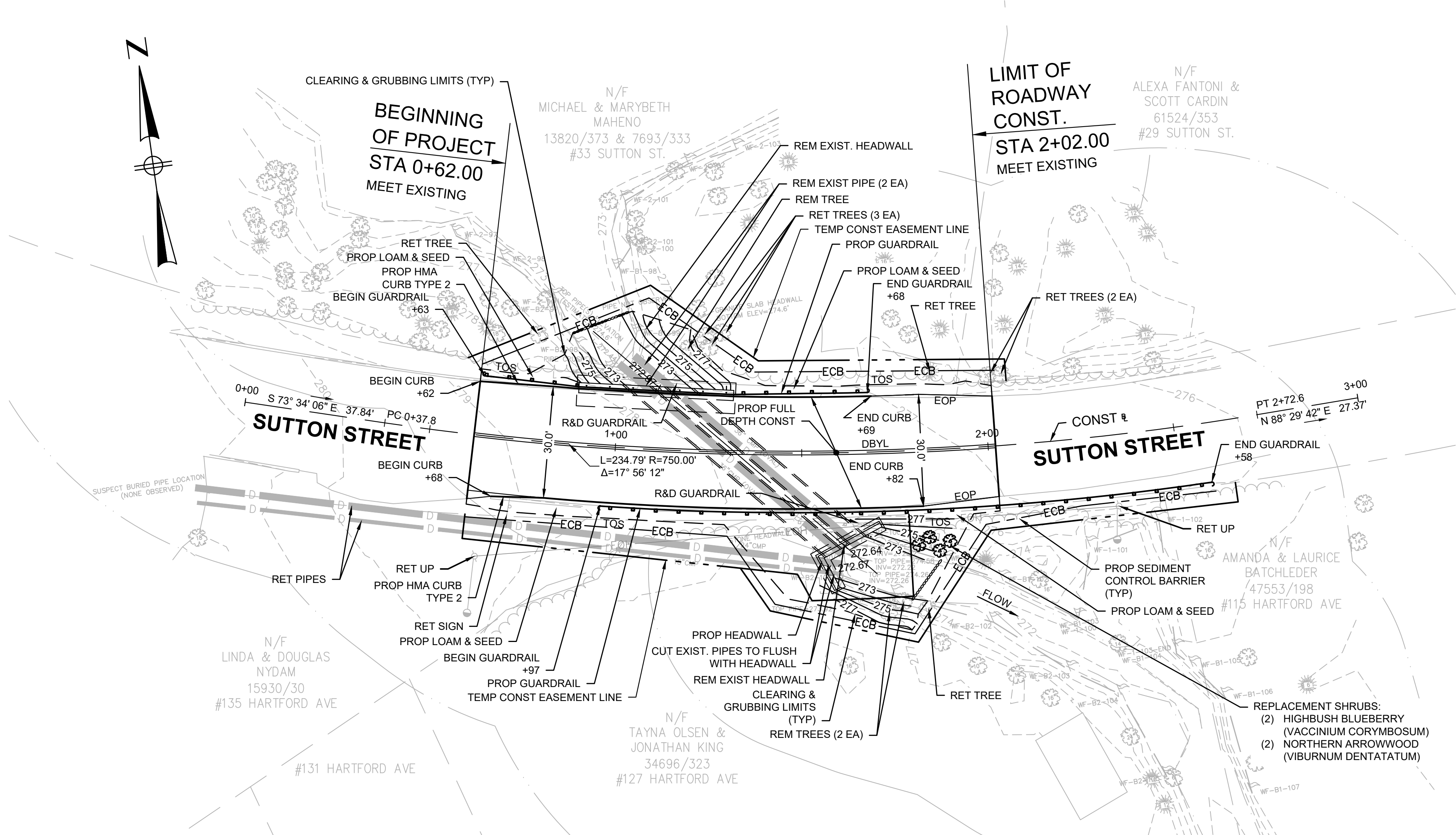
TACK COAT: ASPHALT EMULSION FOR TACK COAT, GRADE RS-1
SHALL BE PLACED AT A RATE OF:
0.07 GALLONS PER SQUARE YARD OVER MILLED SURFACES
0.07 GALLONS PER SQUARE YARD OVER CEMENT CONCRETE BASE COURSE
0.05 GALLONS PER SQUARE YARD OVER SMOOTH TIGHT PAVEMENTS
PRIOR TO PAVING AN OVERLAY



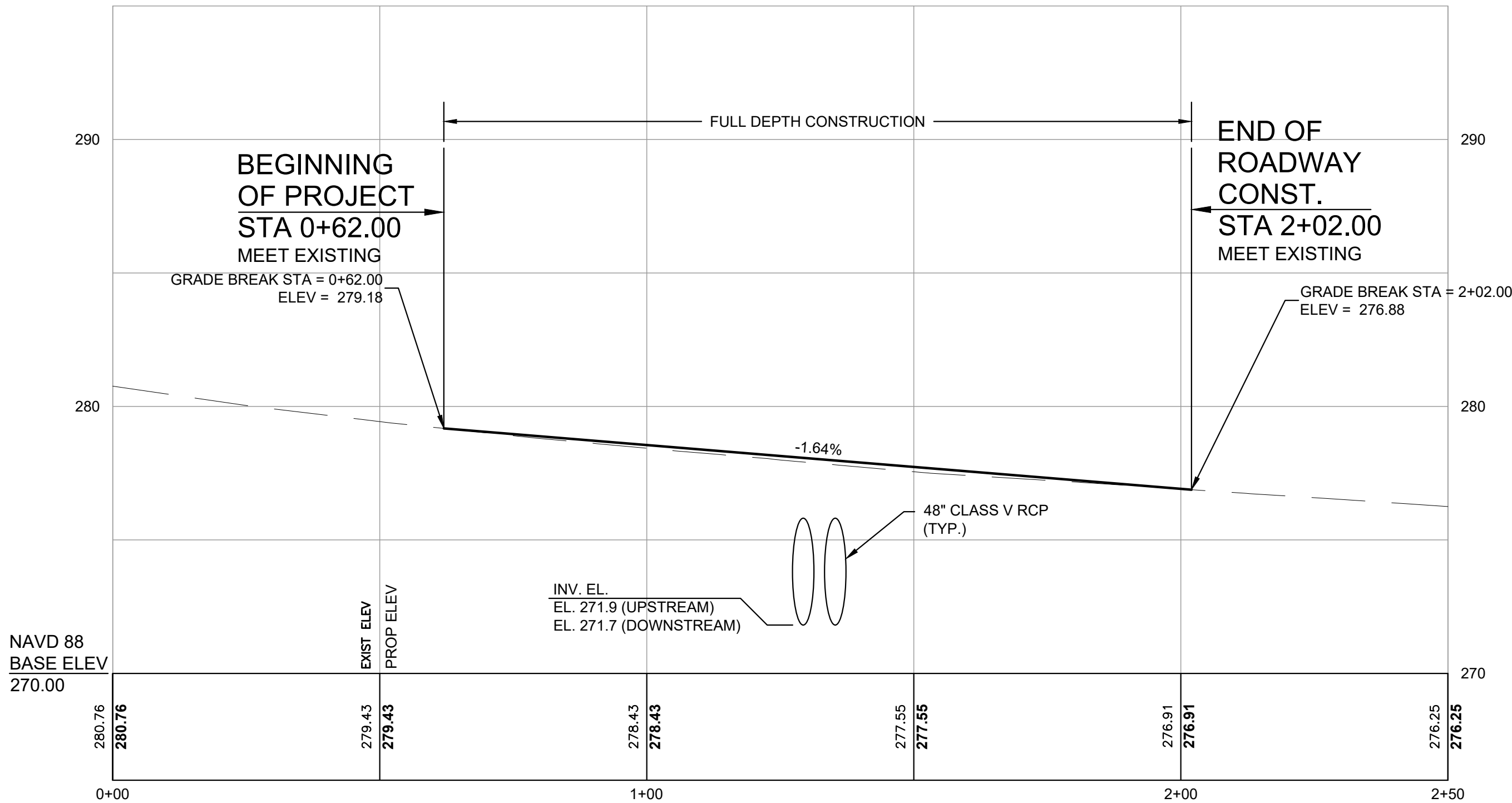
DETAIL FOR TRANSITION CURB
PROP CURB TO EXISTING EDGE OF TRAVEL WAY
NOT TO SCALE



TYPICAL SECTION
SUTTON STREET
STA 0+62± TO STA 2+02±
NOT TO SCALE



PLAN



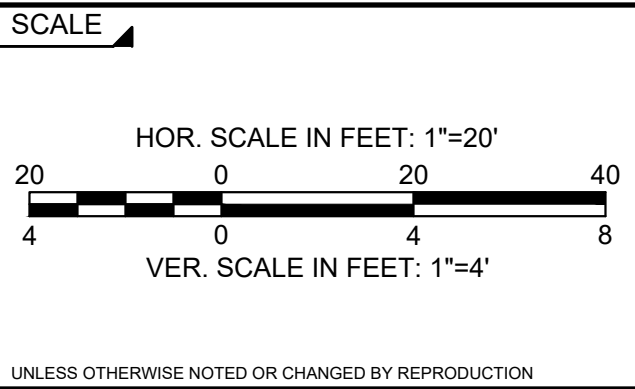
PROFILE

NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS

DRAWN BY:	SD
DESIGNED BY:	SD
CHECKED BY:	MC



SUBCONSULTANT



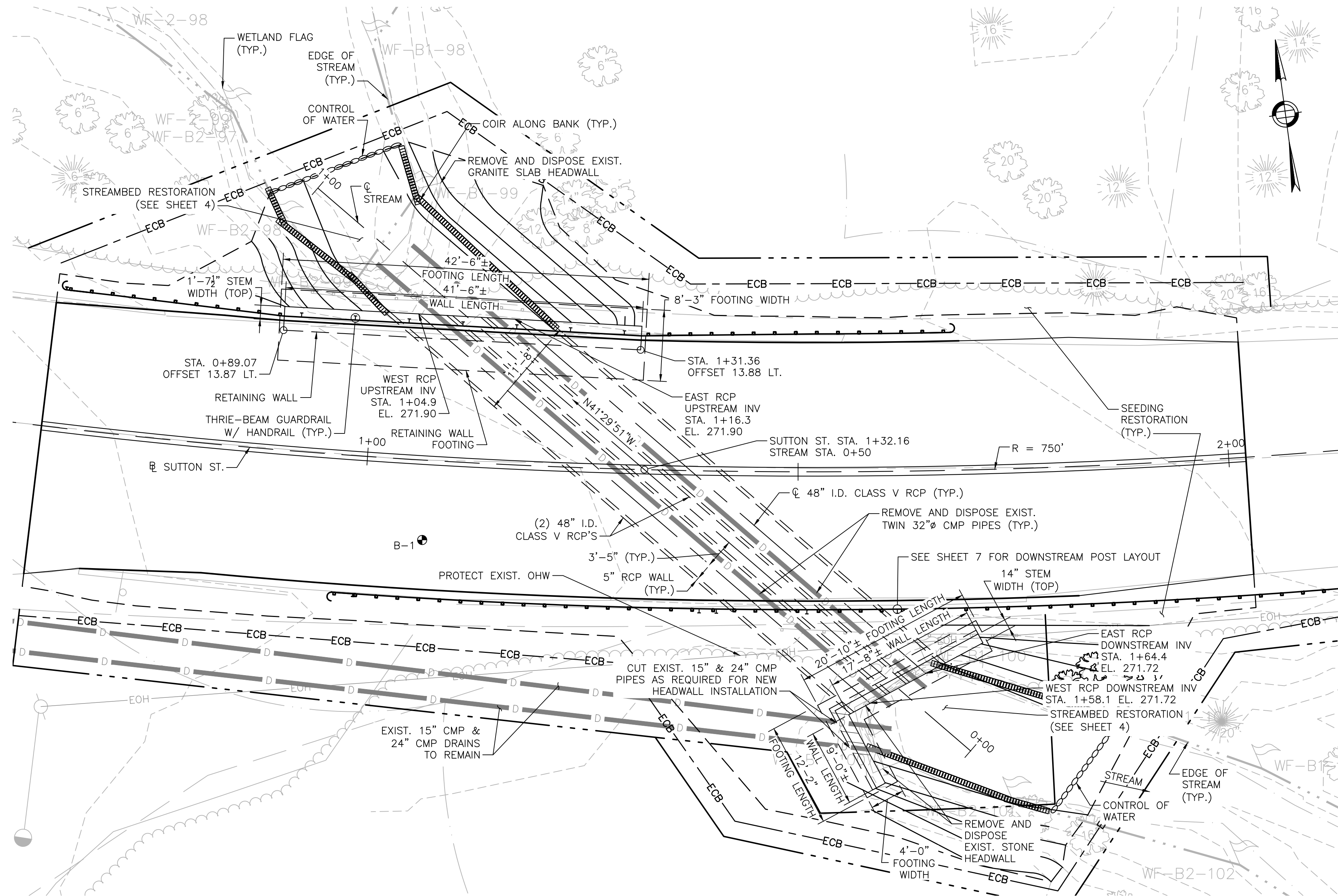
Sutton Street Culvert
Uxbridge, Massachusetts
CONSTRUCTION PLAN AND PROFILE

BETA JOB NO.	7063
ISSUE DATE	3/13/2024
SHEET NO.	3 of 11

3/13/2024 2:54 PM N:\700AS\7063 - UXBRIDGE - SUTTON STREET\DRAWING FILES\PLANSET\7063_003_CONST.DWG (BETA STB BW.STB)

UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

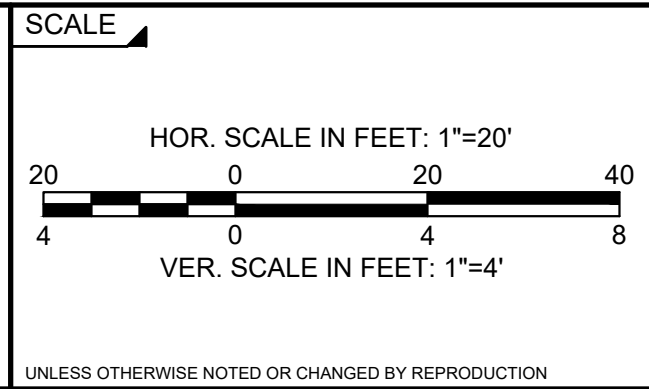
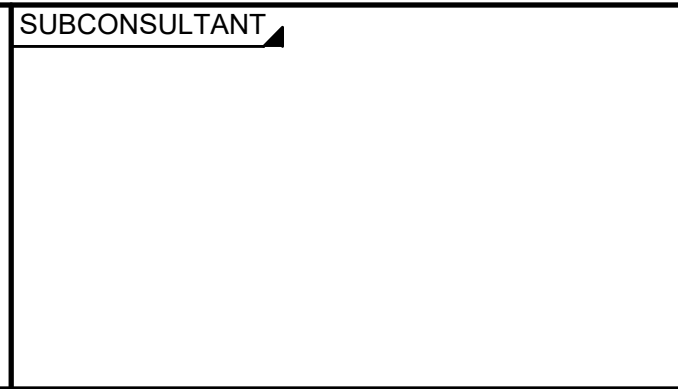
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GENERAL PLAN
SCALE: $\frac{1}{8}" = 1'-0"$

NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS

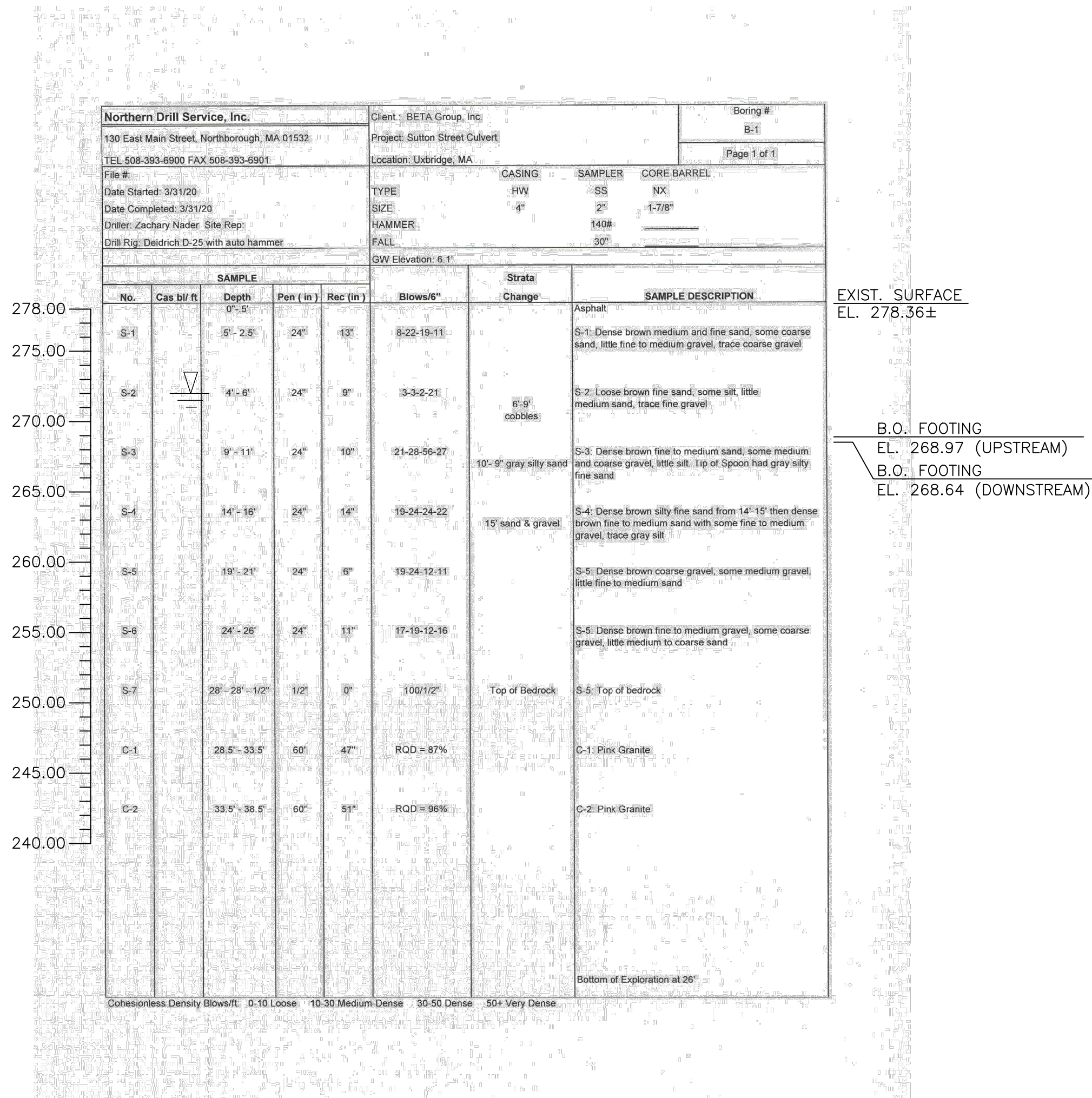
DRAWN BY:	BN
DESIGNED BY:	DW
CHECKED BY:	TW



TITLE	Sutton Street Culvert Uxbridge, Massachusetts CULVERT COVER SHEET
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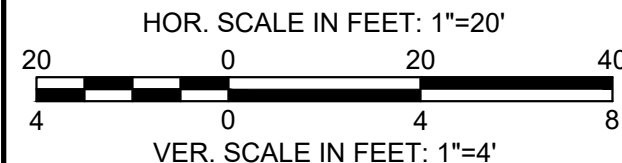
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ISSUE DATE	3/13/2024
SHEET NO.	5 of 11

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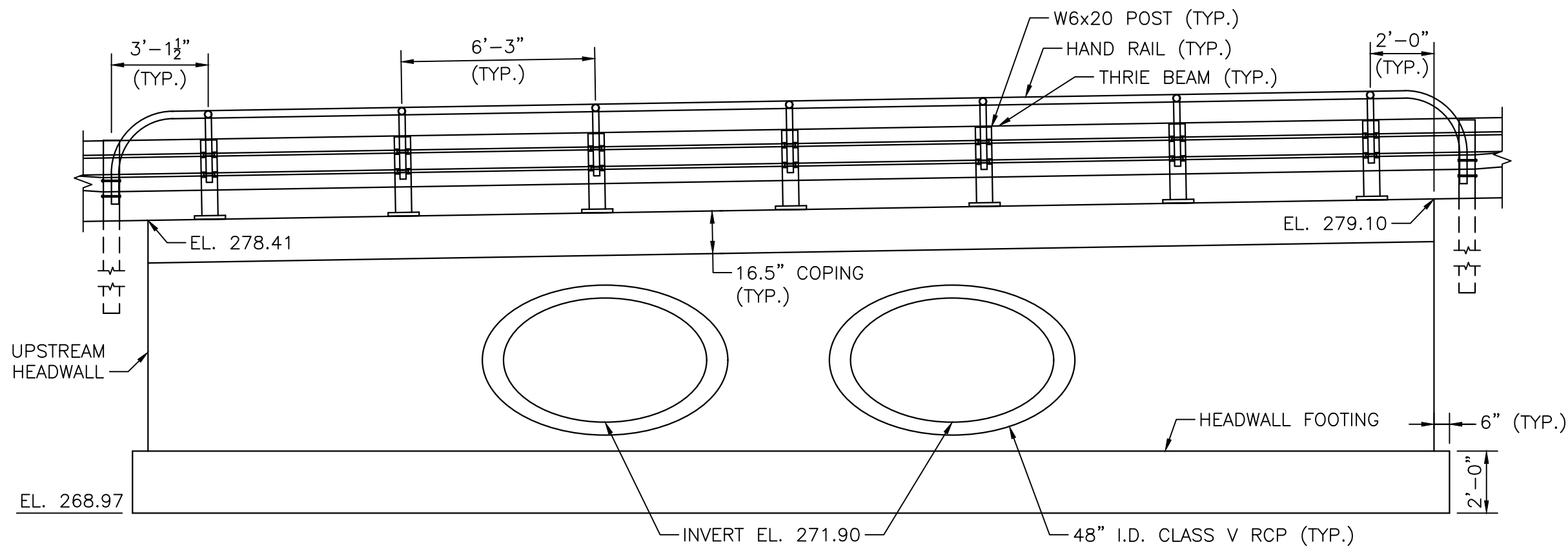


NOTES:

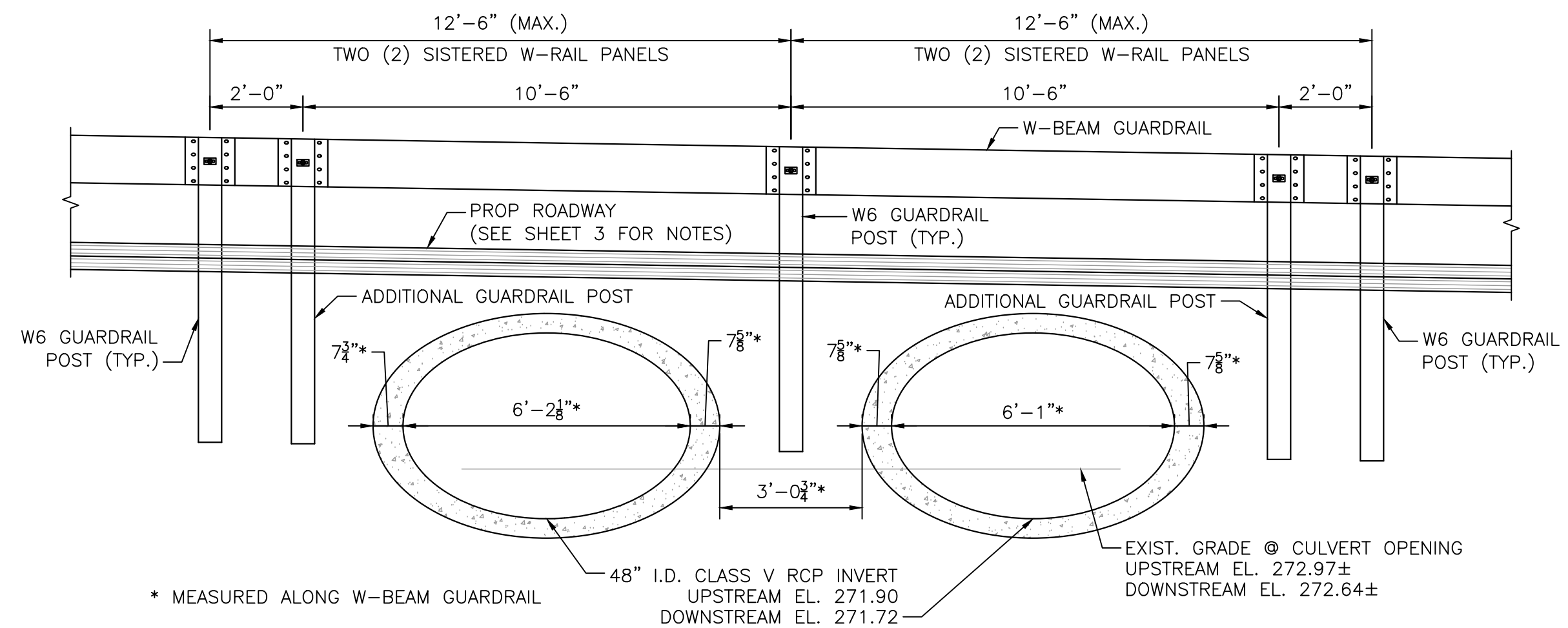
1. APPROXIMATE LOCATION OF BORINGS ARE SHOWN ON THE PLAN THUS: ●
2. BORINGS WERE TAKEN FOR THE PURPOSE OF DESIGN ONLY, AND SHOW CONDITION AT BORING LOCATION ONLY. THEY DO NOT NECESSARILY SHOW THE NATURE OF THE MATERIALS TO BE ENCOUNTERED DURING CONSTRUCTION.
3. WATER LEVELS SHOWN ON THE BORING LOGS WERE OBSERVED AT THE TIME THE BORINGS WERE TAKEN AND DO NOT NECESSARILY SHOW THE TRUE GROUND LEVEL.
4. FIGURES IN COLUMNS INDICATE NUMBER OF BLOWS REQUIRED TO DRIVE A 1 1/8" I.D. SPLIT SPOON SAMPLER 6" USING A 140 POUND WEIGHT FALLING 30".
5. ALL BORINGS WERE MADE IN MARCH 2020.
6. BORINGS WERE MADE BY NORTHERN DRILL SERVICE, INC., 130 EAST MAIN STREET NORTHBOROUGH, MA 01532.
7. THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988 IS USED THROUGHOUT.

					DRAWN BY: BN	REGISTERED PROFESSIONAL 	PREPARED BY  www.BETA-Inc.com	SUBCONSULTANT	SCALE HOR. SCALE IN FEET: 1"=20' VER. SCALE IN FEET: 1"=4' 	TITLE Sutton Street Culvert Uxbridge, Massachusetts BORINGS	BETA JOB NO. 7063
					DESIGNED BY: DW						ISSUE DATE 3/13/2024
					CHECKED BY: TW						SHEET NO. 6 of 11
NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS							

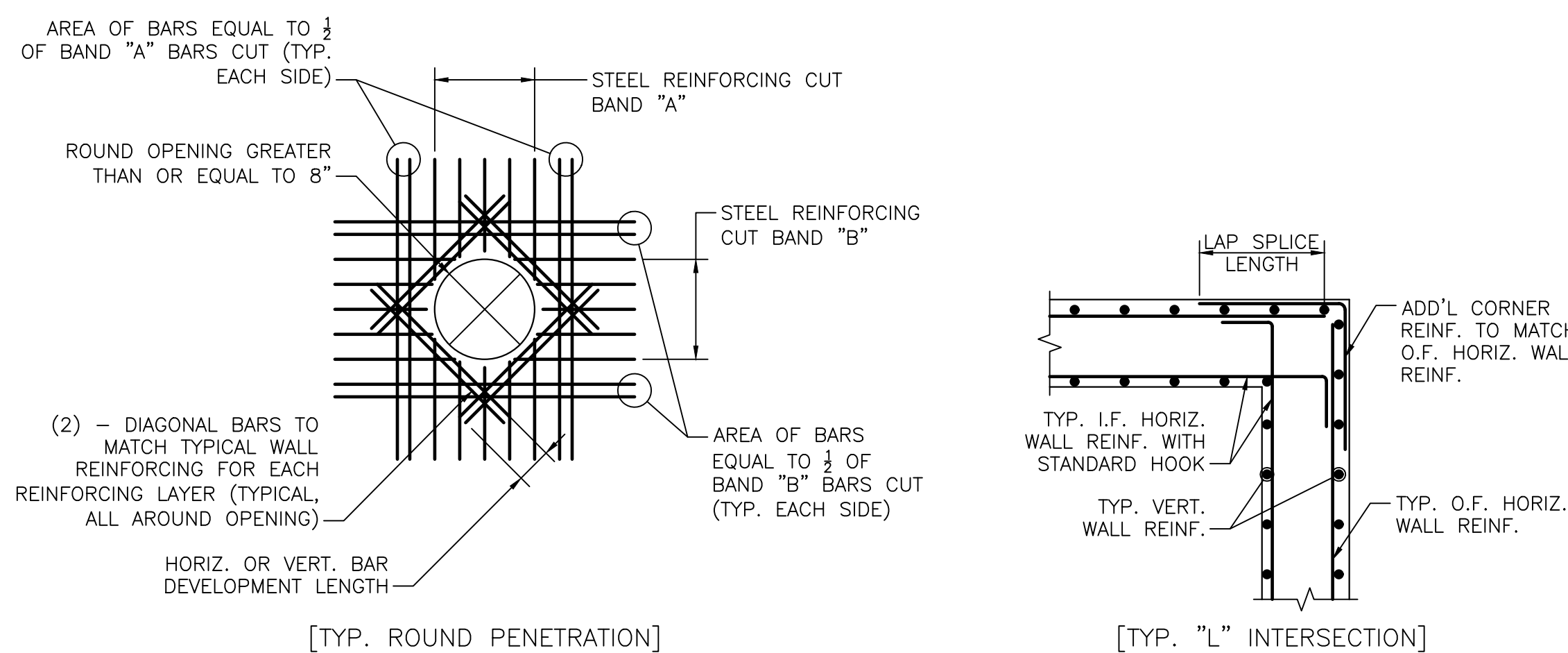
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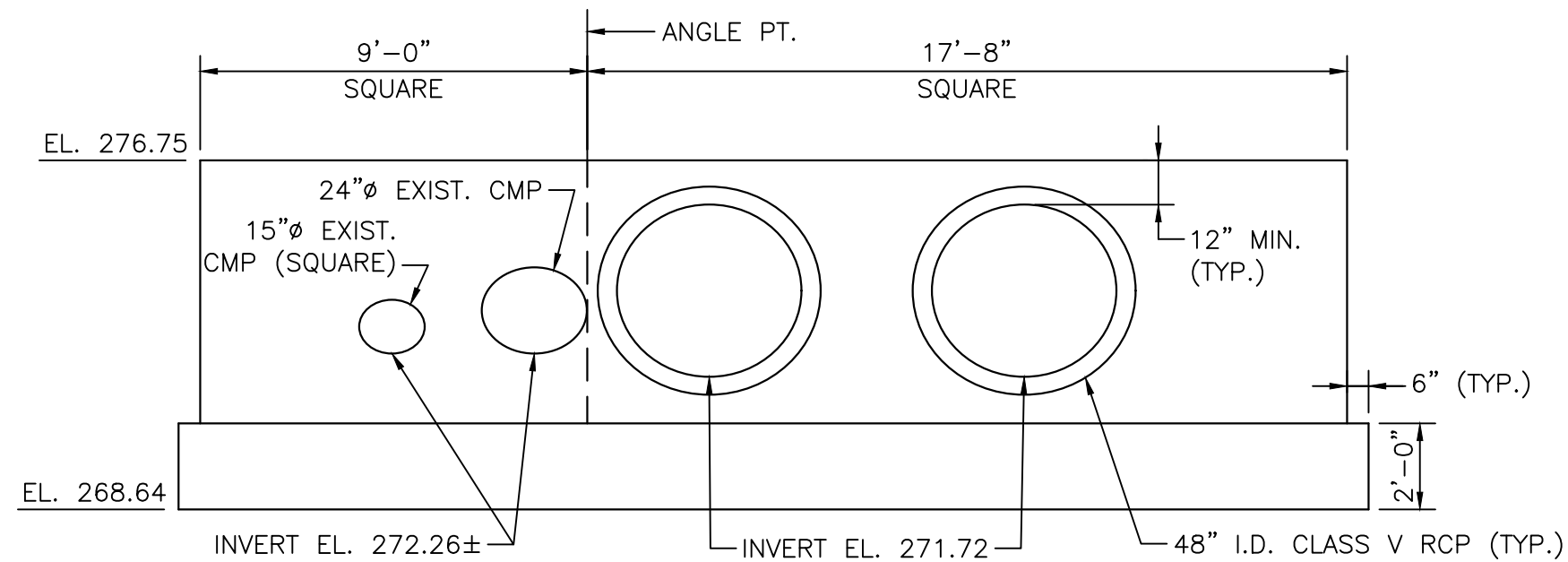
[SQUARE]
UPSTREAM HEADWALL ELEVATION (LOOKING SOUTH)
SCALE: 1/4" = 1'-0"



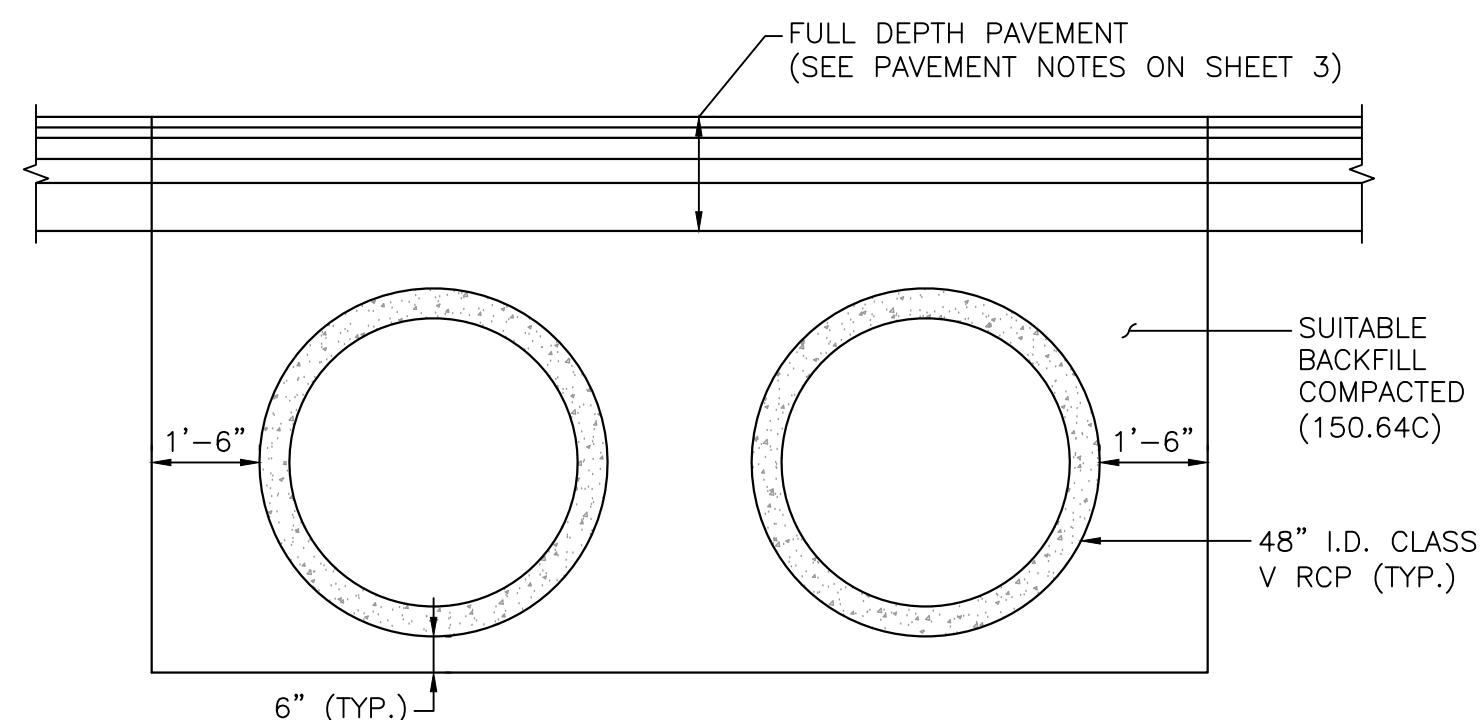
SECTION @ DOWNSTREAM RAILING
SCALE: 3/8" = 1'-0"



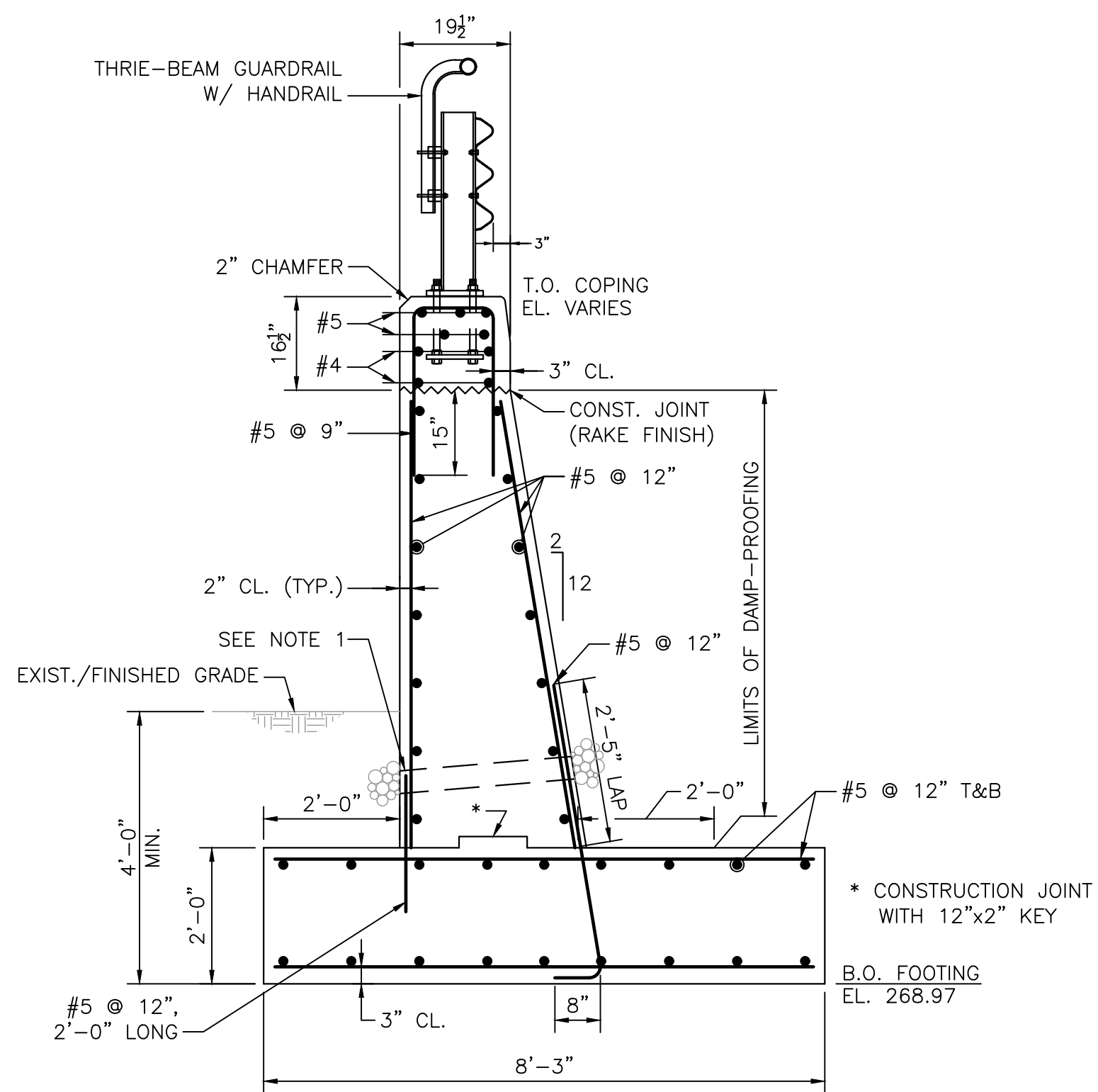
TYPICAL REINFORCING DETAILS
SCALE: 3/8" = 1'-0"



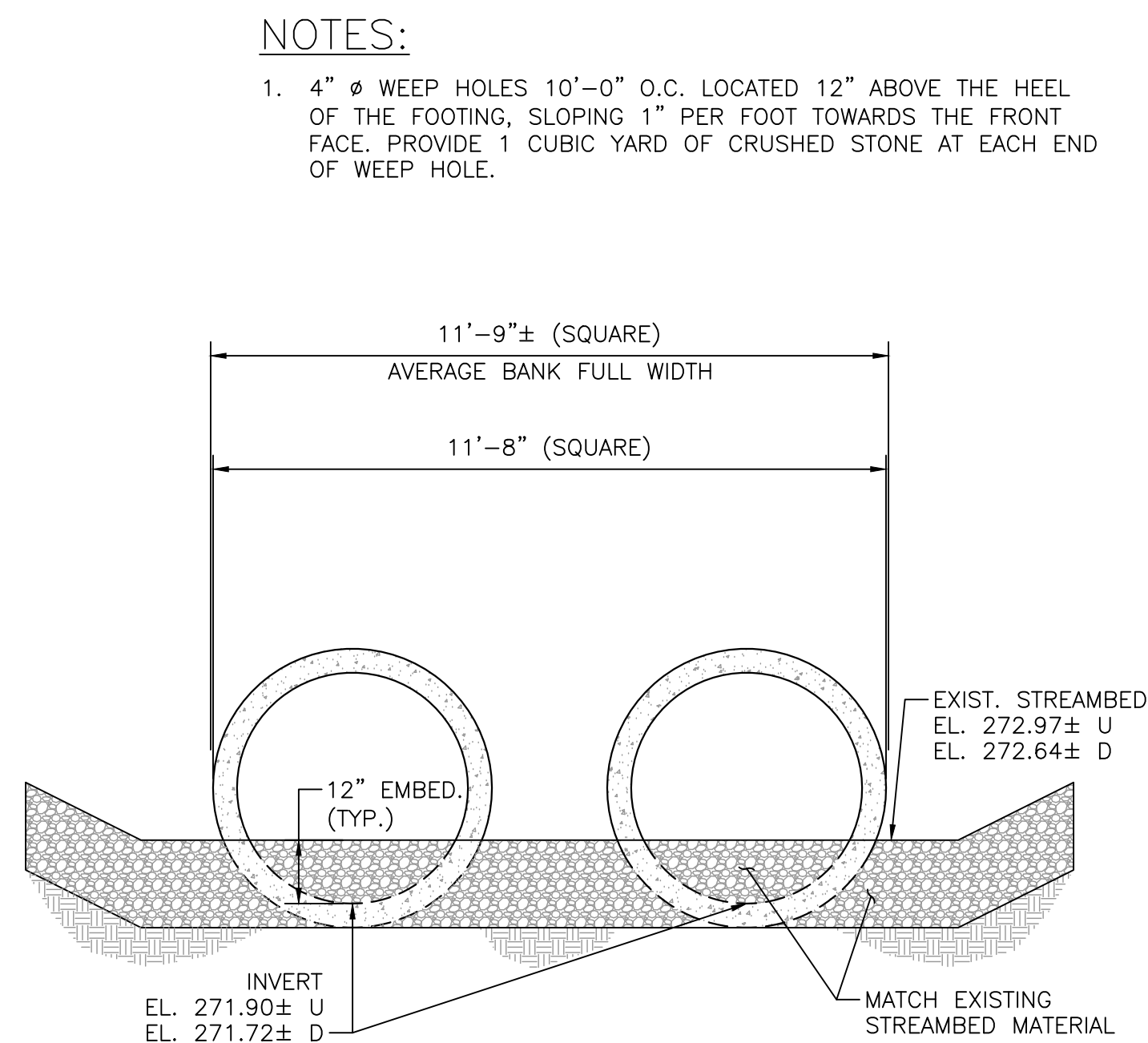
[SQUARE]
DOWNSTREAM HEADWALL ELEVATION (LOOKING NORTH)
SCALE: 1/4" = 1'-0"



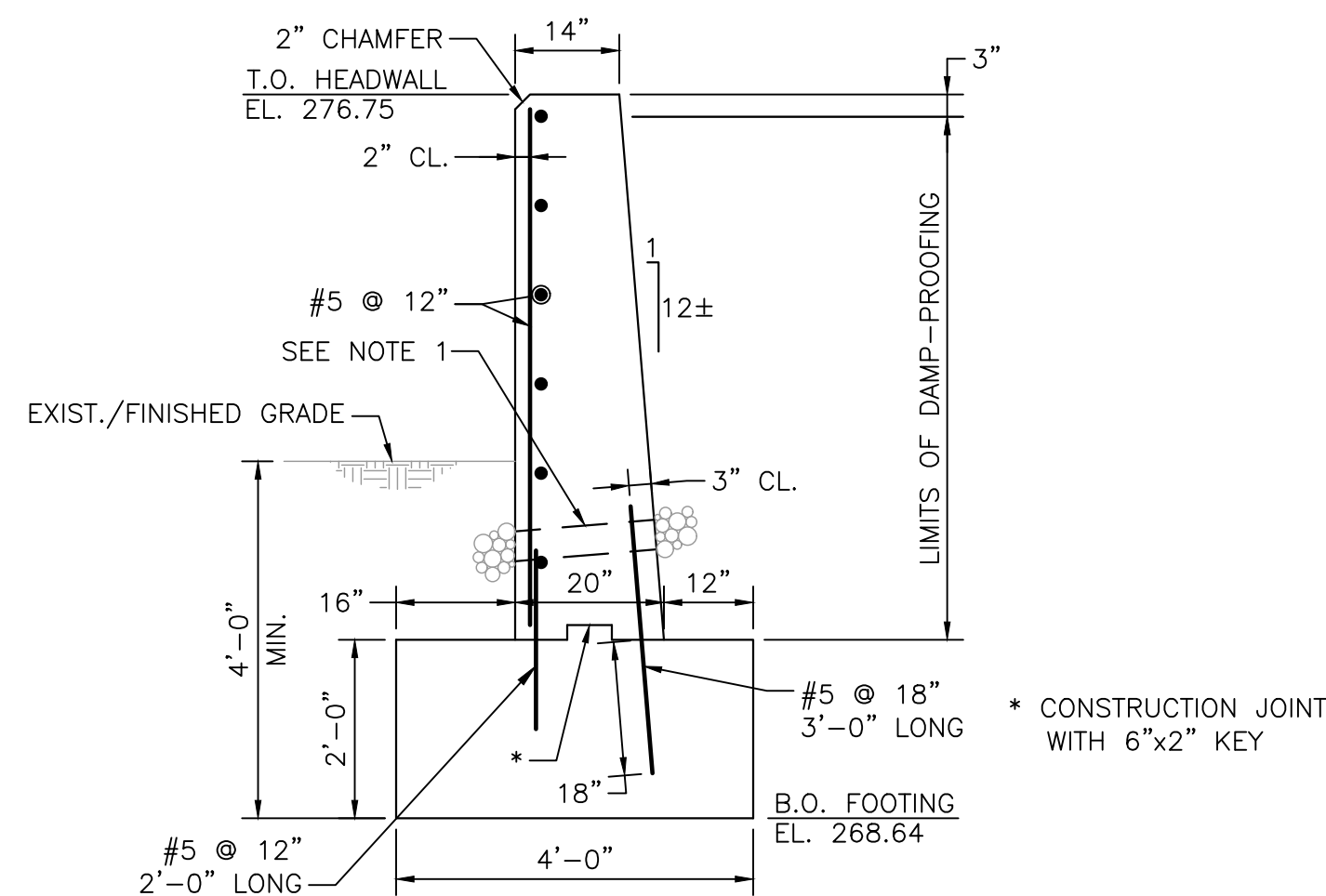
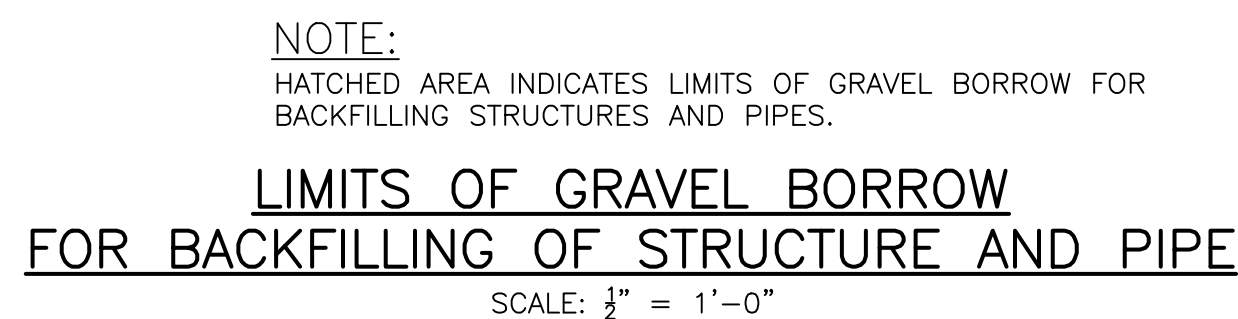
ROADWAY TRENCH DETAIL
SCALE: 3/8" = 1'-0"



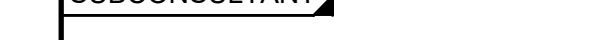
UPSTREAM HEADWALL SECTION
SCALE: 1/2" = 1'-0"

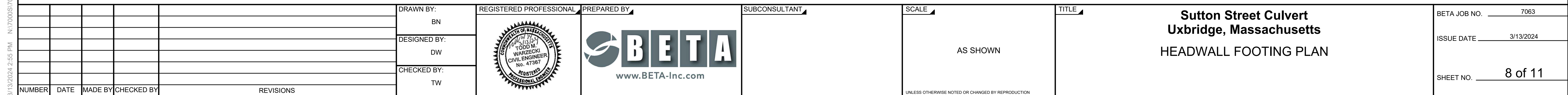


CHANNEL SECTION @ RCP's
SCALE: 3/8" = 1'-0"

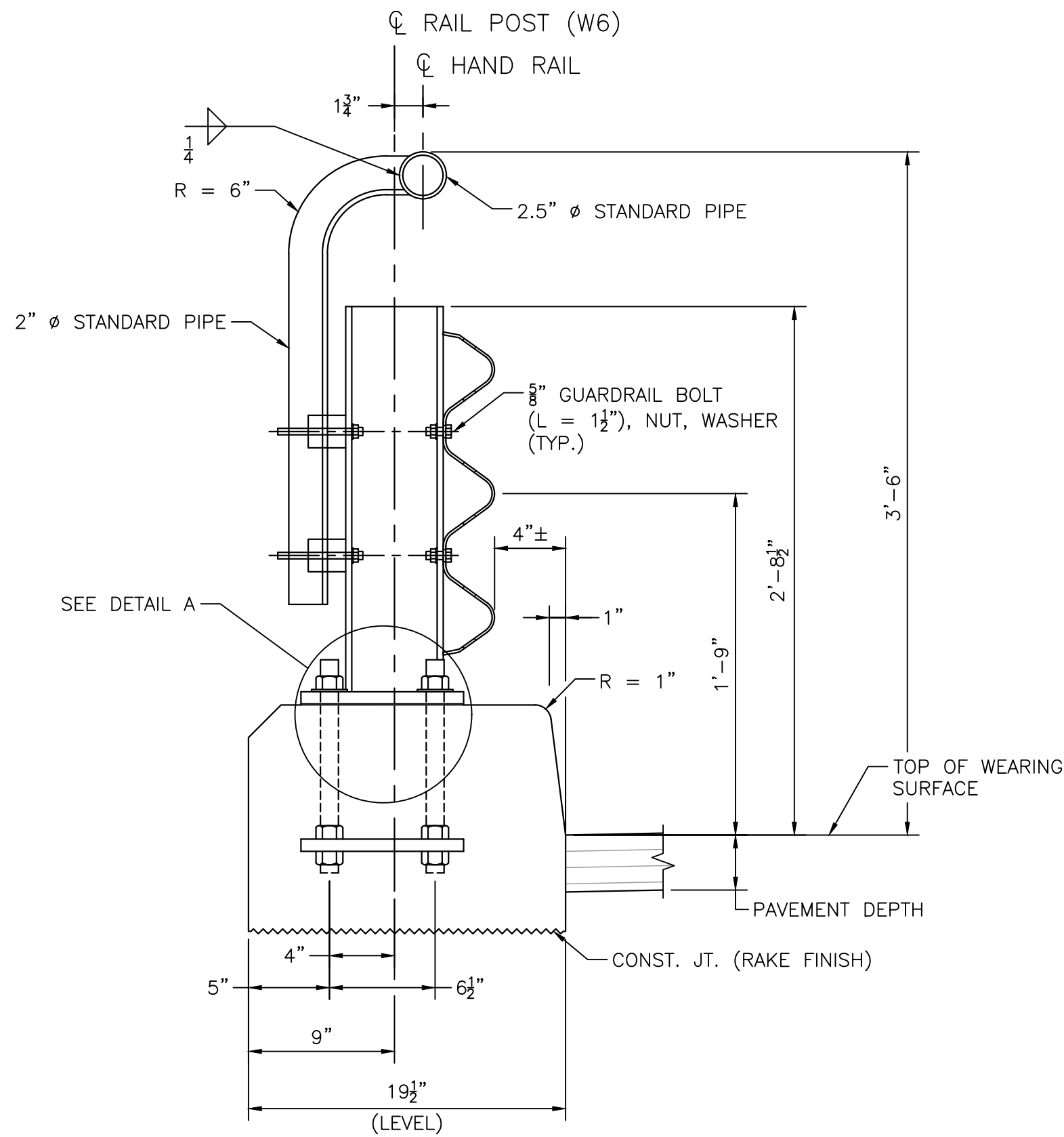


DOWNSTREAM HEADWALL SECTION
SCALE: 1/2" = 1'-0"

					DRAWN BY: BN		 www.BETA-inc.com		SCALE AS SHOWN	TITLE Sutton Street Culvert Uxbridge, Massachusetts STRUCTURAL DETAILS	BETA JOB NO. 7063
				DESIGNED BY: DW	ISSUE DATE 3/13/2024						
				CHECKED BY: TW	SHEET NO. 7 of 11						
NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS	UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION						

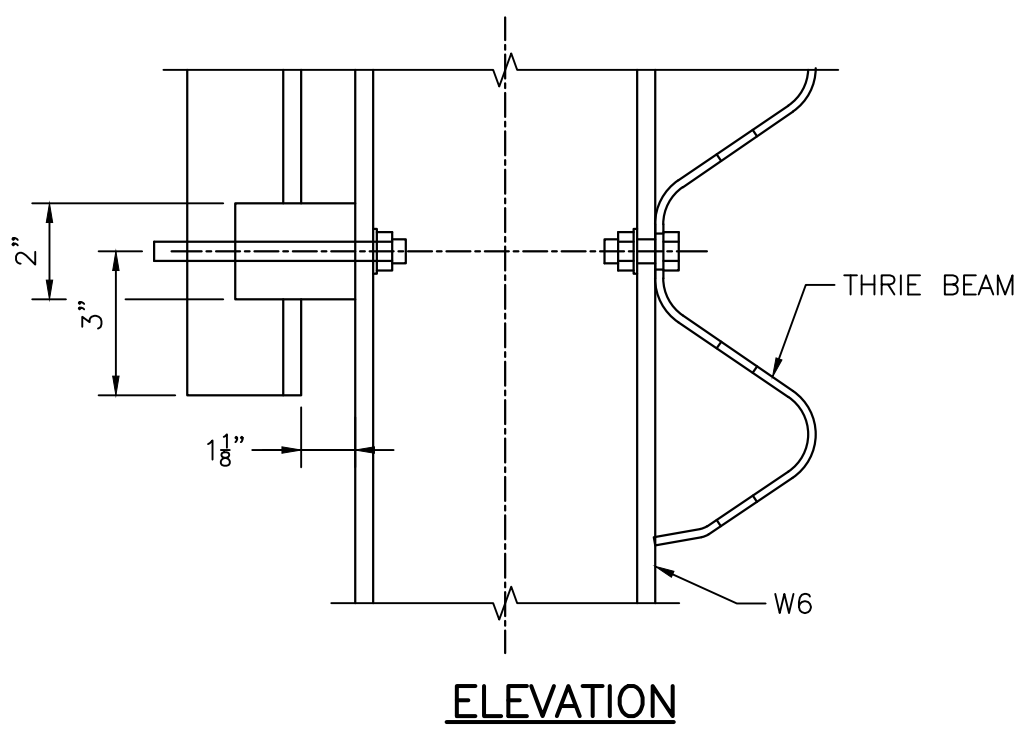


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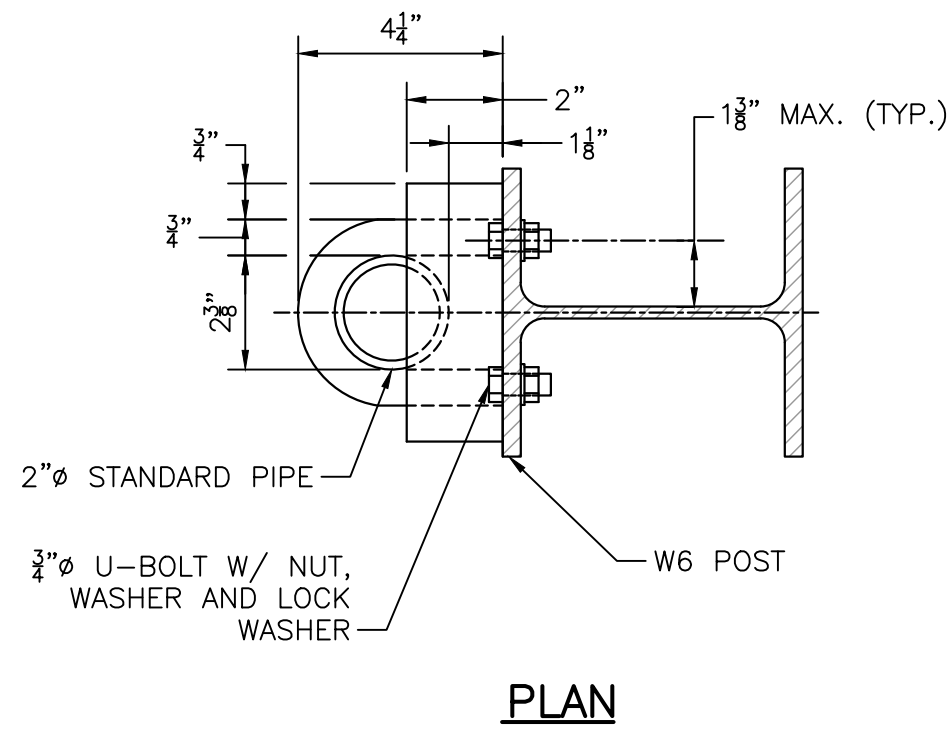


NOTE: TOP OF UPSTREAM HEADWALL SHOWN

THRIE BEAM SECTION
SCALE: 1 1/2" = 1'-0"

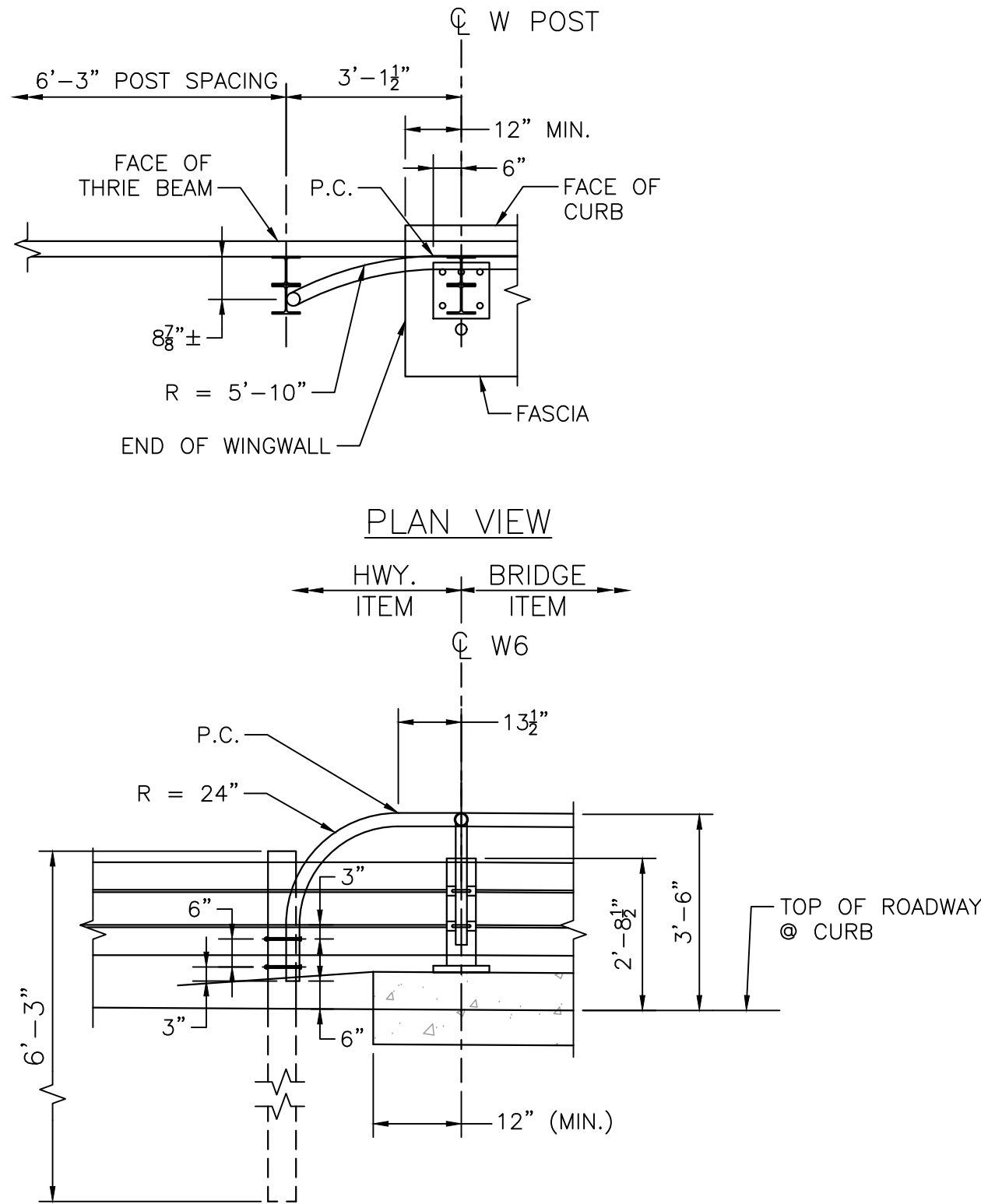


ELEVATION



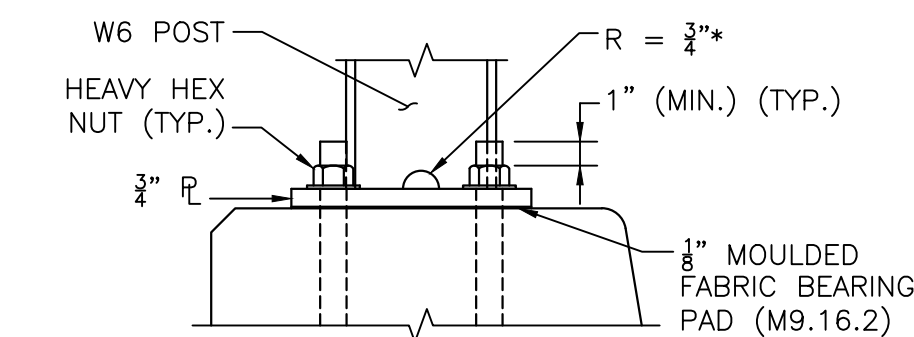
PLAN

SADDLE DETAILS
SCALE: 3" = 1'-0"



ELEVATION

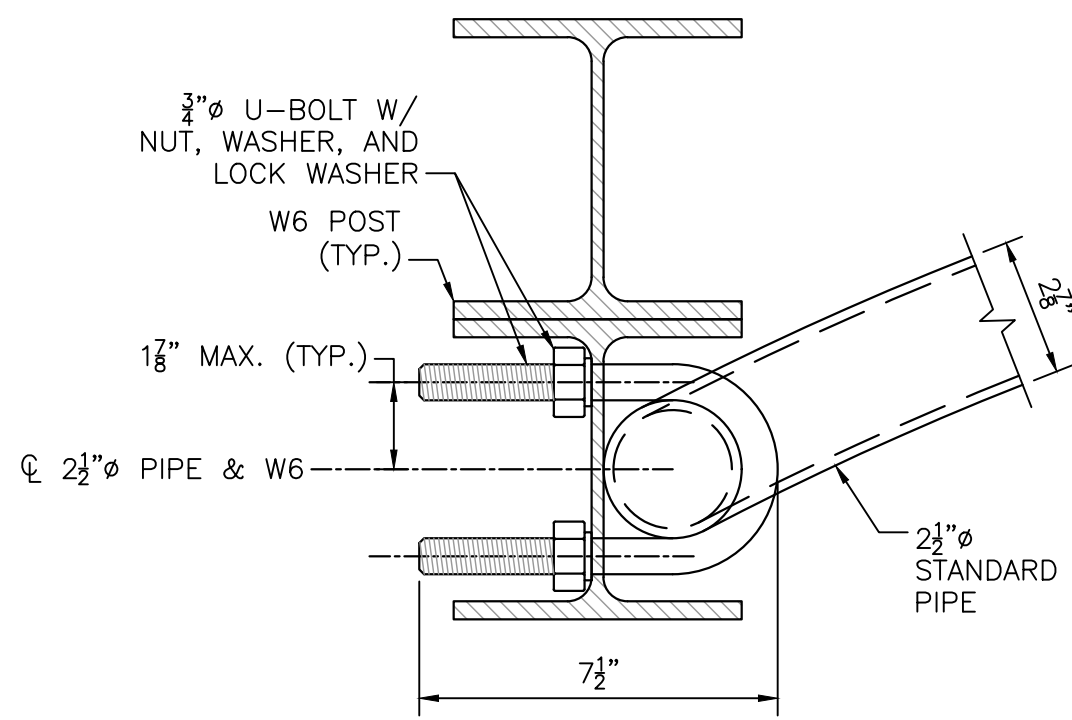
HAND RAIL END DETAIL
SCALE: 3/8" = 1'-0"



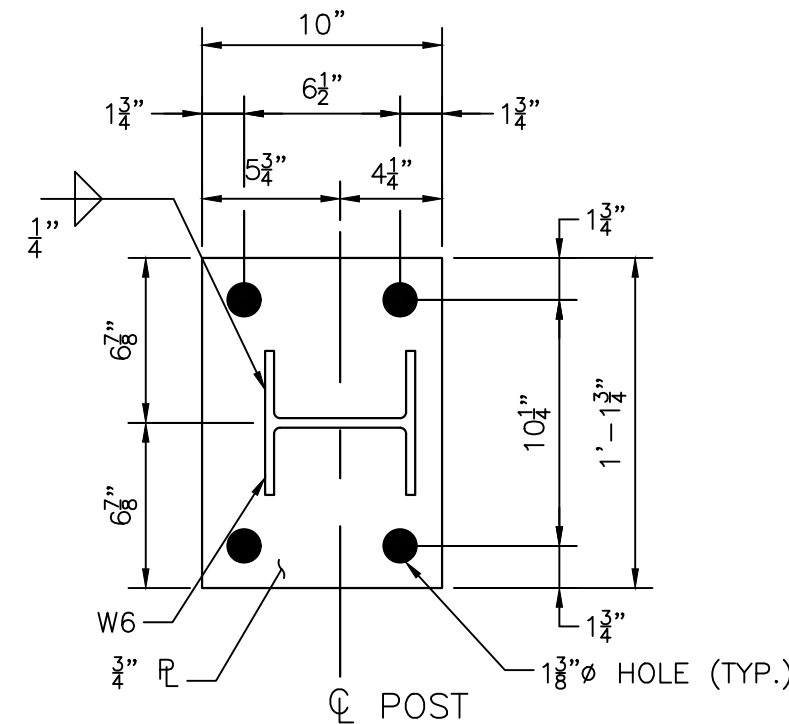
* PERMISSIBLE SEMI-CIRCULAR NOTCHES IN ENDS OF WEB CENTERED ON AXIS OF POST TO FACILITATE GALVANIZING (TYPICAL TOP AND BOTTOM OF POST)

DETAIL A

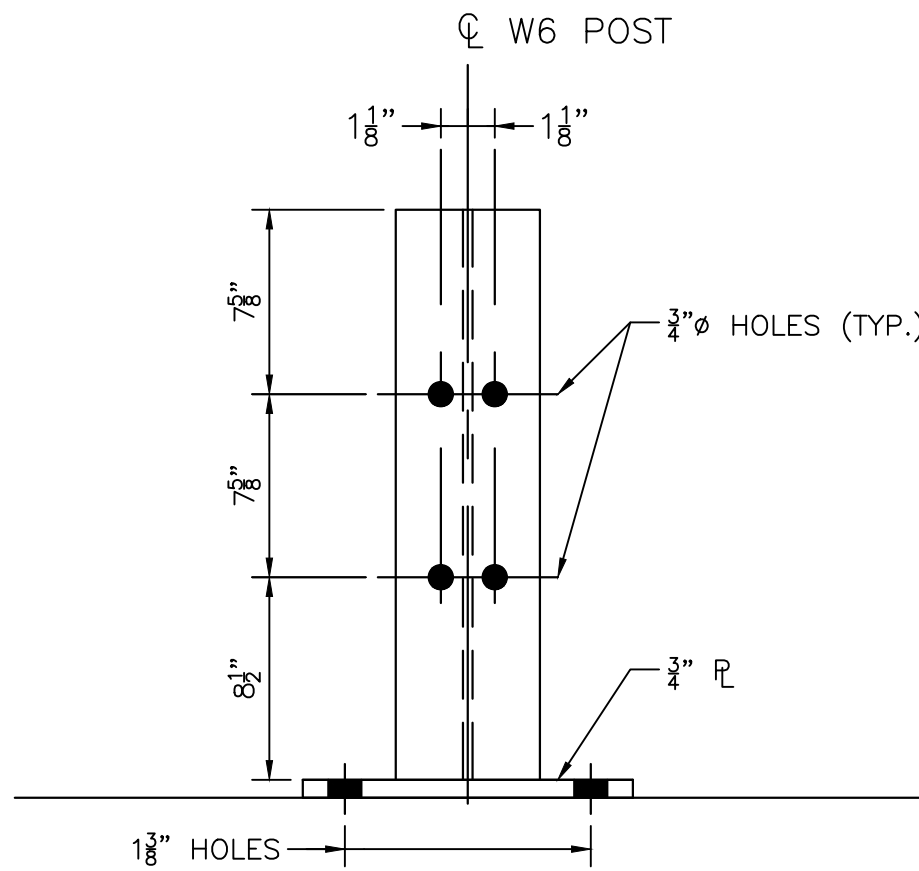
SCALE: 1 1/2" = 1'-0"



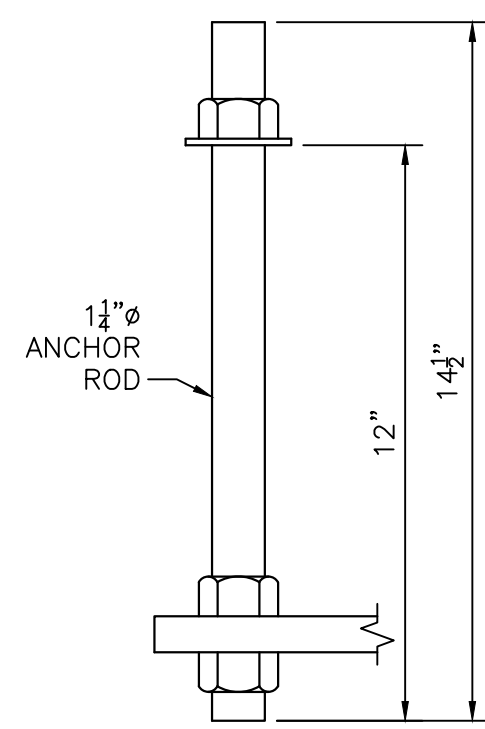
END SADDLE DETAIL
SCALE: 3" = 1'-0"



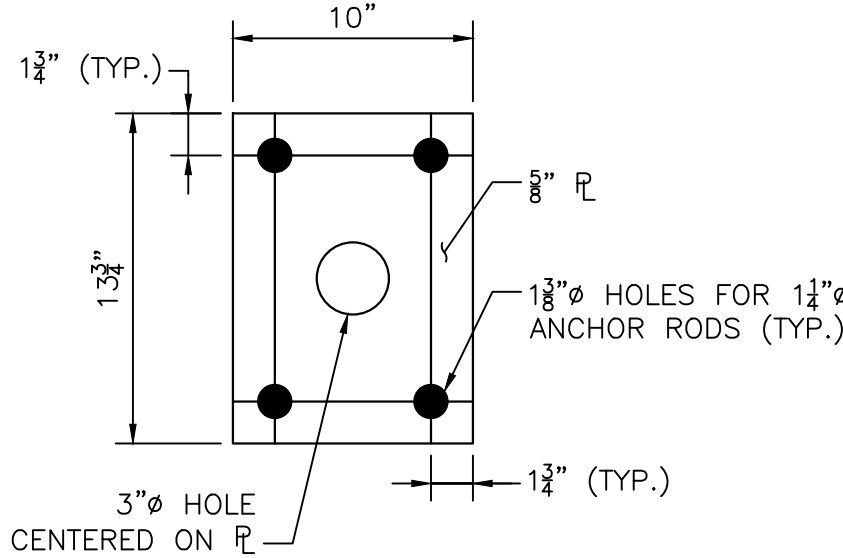
BASE PLATE DETAIL
SCALE: 1 1/2" = 1'-0"



RAIL POST DETAIL (FRONT VIEW)
SCALE: 1 1/2" = 1'-0"

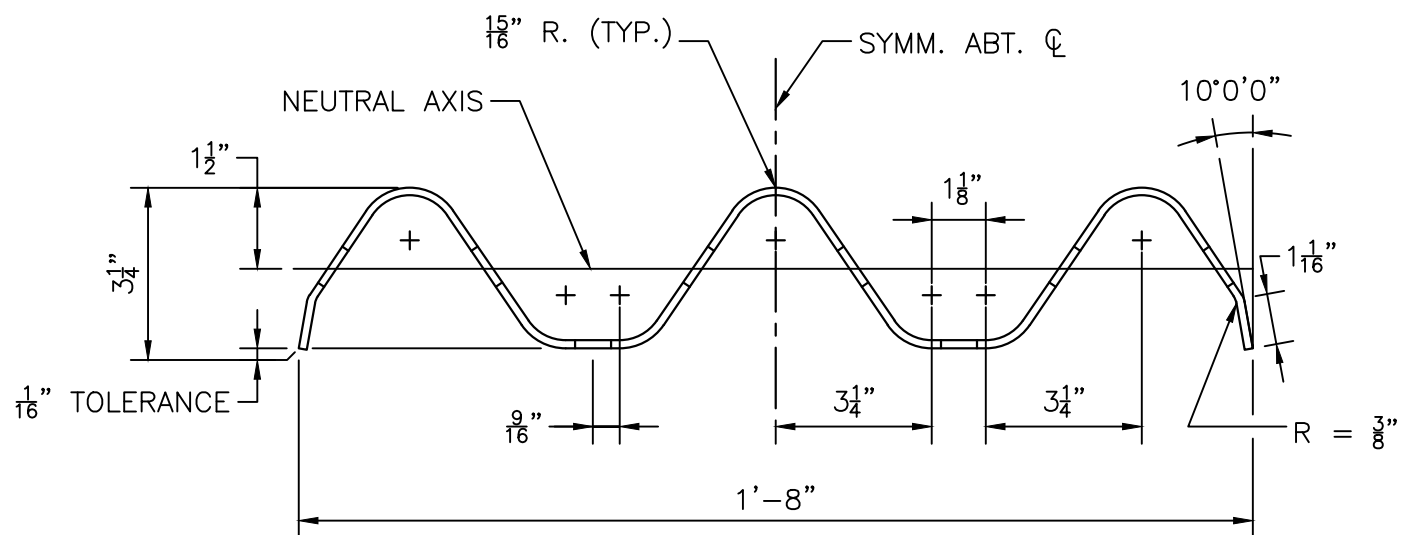


ANCHOR ROD DETAIL
NOT TO SCALE



ANCHOR PLATE DETAIL

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

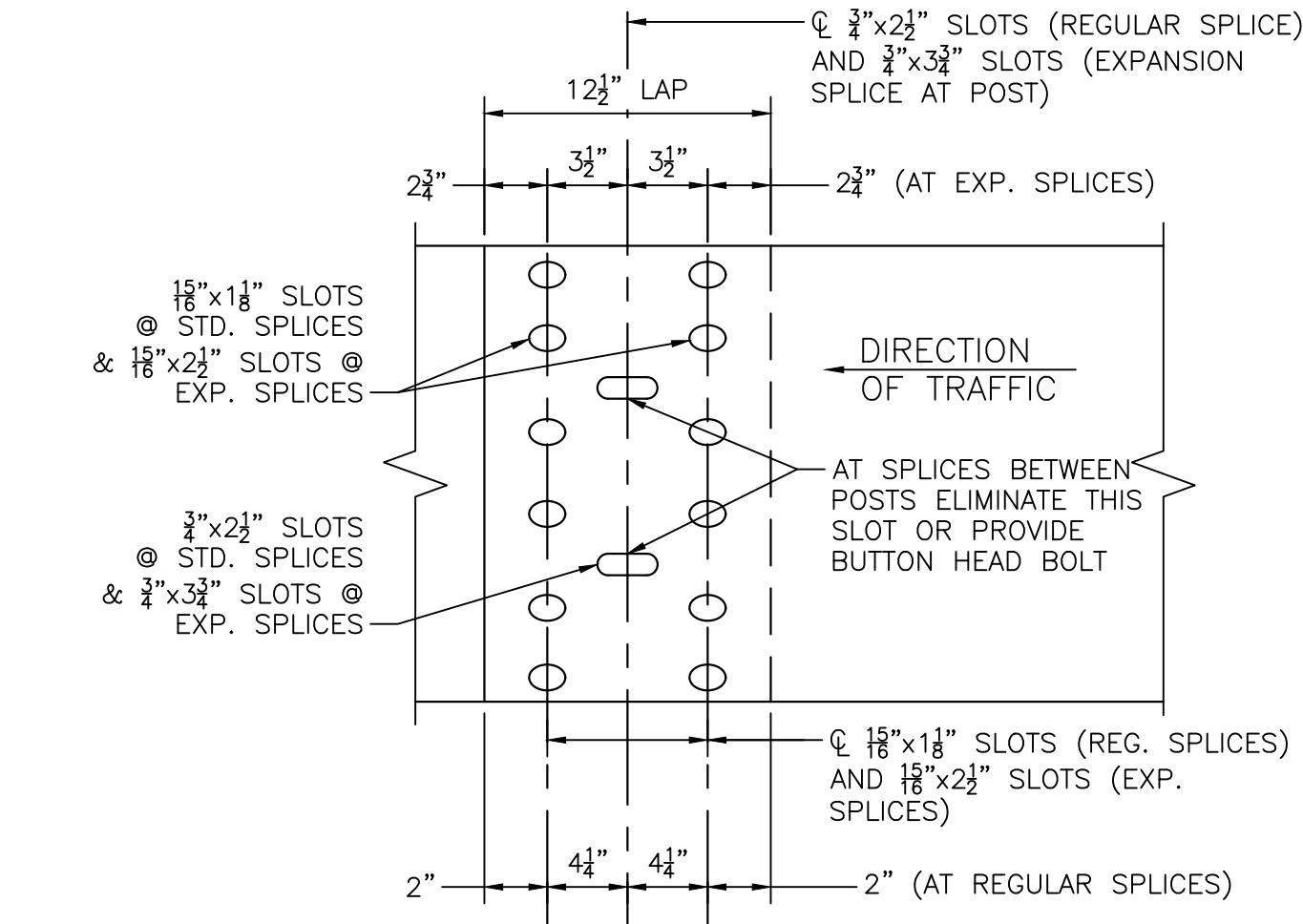


SECTION THRU THRIE BEAM RAIL

SCALE: 3" = 1'-0"

NOTES:

1. ALL STEEL CONNECTING BOLTS AND FASTENERS FOR POSTS AND RAILING SHALL CONFORM TO ASTM A307 AND SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M232. ALL ANCHOR RODS SHALL CONFORM TO F1554 GRADE 105 AND SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M232.
2. RAIL POSTS AND ANCHOR PLATES SHALL BE SEATED ON MOULDED FABRIC BEARING PADS MEETING M9.16.2 AND HAVING THE SAME DIMENSIONS AS THE PLATE. ADDITIONAL PADS OR HALF PADS MAY BE USED IN SHIMMING FOR ALIGNMENT. POST HEIGHTS SHOWN WILL INCREASE BY THE THICKNESS OF THE PAD.
3. RAIL POSTS SHALL BE SET PERPENDICULAR TO ROADWAY PROFILE GRADE AND VERTICALLY IN CROSS SECTION, EXCEPT THAT THE RAIL POSTS SHALL BE ALIGNED BY THE USE OF SHIMS SO THAT IN THE FINAL ADJUSTMENT NO PART SHALL DEViate MORE THAN ONE INCH FROM TRUE HORIZONTAL ALIGNMENT. THE SHIMS SHALL BE 3"x1 1/4" AND PLACED BETWEEN THE POST AND THE THRIE BEAM RAIL. THE THICKNESS OF THE SHIMS SHALL BE DETERMINED BY THE CONTRACTOR AND VERIFIED BY THE ENGINEER BEFORE ORDERING MATERIAL FOR THIS WORK.
4. MINIMUM LENGTH OF THE THRIE BEAM SECTIONS IS EQUAL TO ONE POST SPACE.
5. THRIE BEAM GUARD RAIL STEEL SHALL BE GALVANIZED AND CONFORM TO THE AASHTO M180, CLASS B, TYPE IV AND SHALL BE 10 GAGE THICK. USE OF 12 GAGE THICK THRIE BEAM IS EXPRESSLY FORBIDDEN.
6. POSTS, ANCHOR PLATES, BASE PLATES SHALL BE FABRICATED FROM STEEL CONFORMING TO AASHTO M270M GR. 250 STEEL AND SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M111.
7. SPECIAL DRILLING OF THE THRIE BEAM MAY BE REQUIRED AT THE SPLICES. (ALL DRILLING DETAILS ARE TO BE SHOWN ON THE SHOP DRAWINGS.)
8. HAND RAIL STEEL SHALL CONFORM TO ASTM A53 GR. B OR A501 AND SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M111.
9. PLACE A REFLECTORIZED WASHER IN THE UPPER VALLEY OF THRIE BEAM EVERY THIRD POST.
10. HAND RAIL SHALL BE SPLICED OVER JOINTS IN COPING.



THRIE BEAM RAIL SPLICE

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

NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS

DRAWN BY:	BN
DESIGNED BY:	DW
CHECKED BY:	TW



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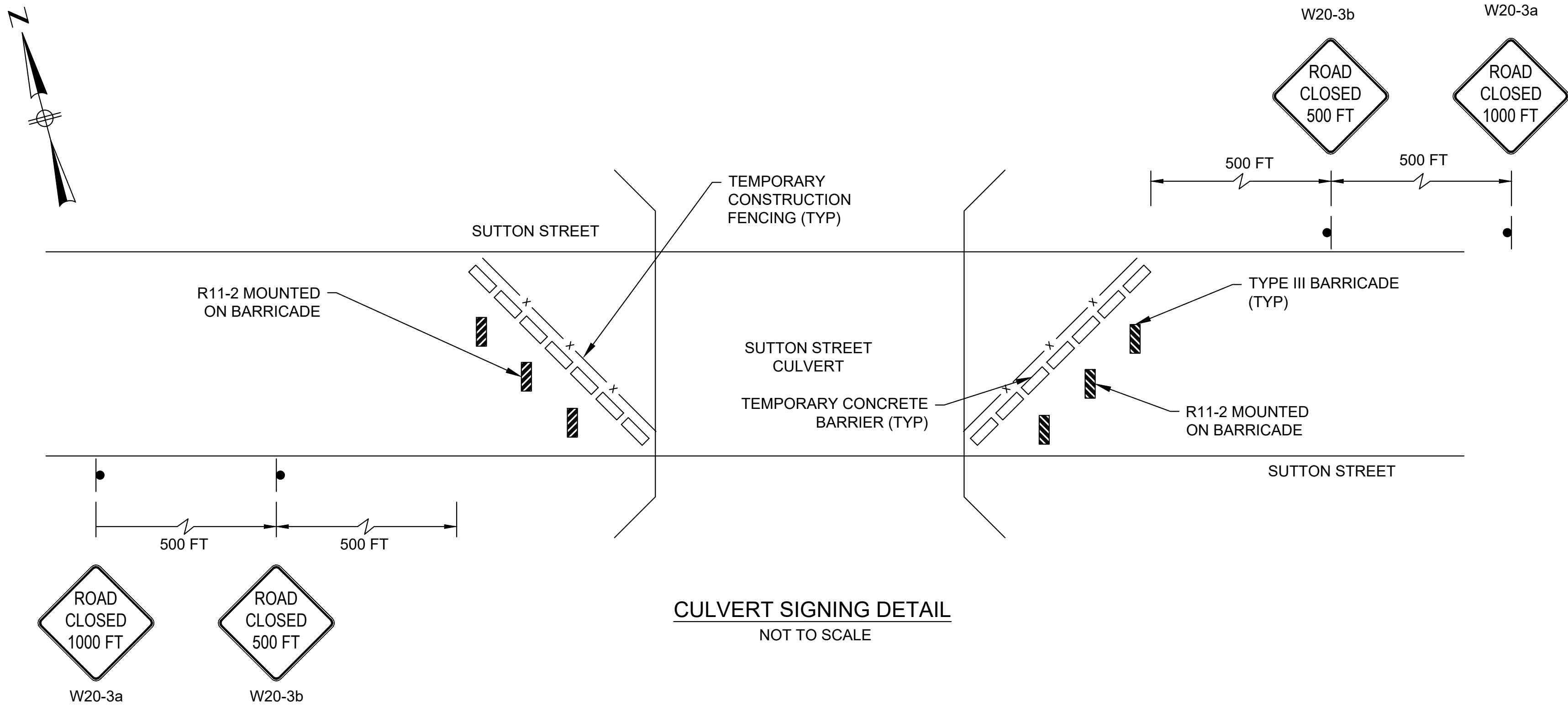
SCALE
AS SHOWN
UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

TITLE	Sutton Street Culvert Uxbridge, Massachusetts THRIE BEAM DETAILS
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BETA JOB NO.	7063
ISSUE DATE	3/13/2024
SHEET NO.	9 of 11

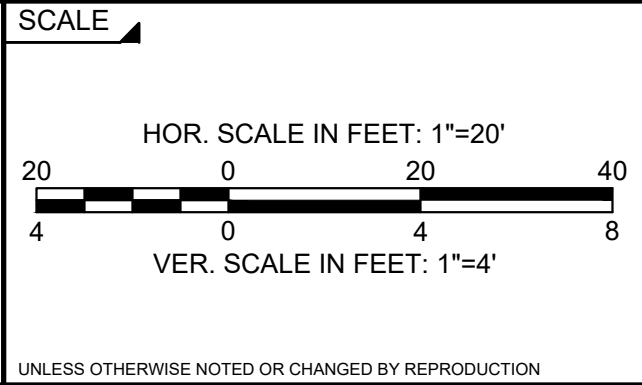
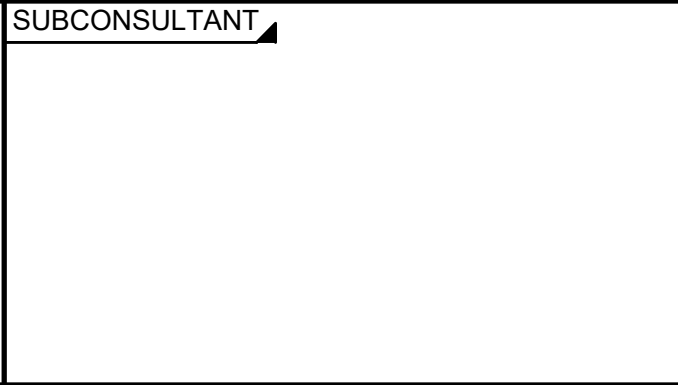
3/13/2024 2:56 PM N:\7063\7063 - UXBRIDGE - SUTTON STREET\DRAWING FILES\PLANSET\7063_008-009_DETOUTR.DWG (BETA STB BW.STB)

IDENTIFI- CATION NUMBER	SIZE OF SIGN		TEXT	DIMENSIONS (in)			NUMBER OF SIGNS REQUIRED	COLOR			POST SIZE AND NUMBER REQUIRED	UNIT AREA IN SQUARE FEET	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW		BACK- GROUND	LEGEND	BORDER			
R11-2	48 in	30 in	ROAD CLOSED	SEE 2009 MUTCD STANDARDS			2	WHITE	BLACK	BLACK	MOUNT ON BARRICADE	10.0	20.0
R11-3b	66 in	30 in	BRIDGE OUT 1/2 MILE AHEAD LOCAL TRAFFIC ONLY				1	ORANGE	BLACK	BLACK	P-5 (2) 1	13.75	13.75
R11-4	60 in	30 in	ROAD CLOSED TO THRU TRAFFIC				1	WHITE	BLACK	BLACK	MOUNT ON BARRICADE	12.5	12.5
W20-3a	36 in	36 in	ROAD CLOSED 1000 FT				2	ORANGE	BLACK	BLACK	P-5 2	9.0	18.0
W20-3b	36 in	36 in	ROAD CLOSED 500 FT				2	ORANGE	BLACK	BLACK	P-5 2	9.0	18.0
M4-8a	24 in	18 in	END DETOUR				2	ORANGE	BLACK	BLACK	P-5 2	3.0	6.0
M4-9L	30 in	24 in	DETOUR ←				3	ORANGE	BLACK	BLACK	MOUNT W/ MA-D3-1	5.0	15.0
M4-9R	30 in	24 in	DETOUR →				3	ORANGE	BLACK	BLACK	MOUNT W/ MA-D3-1	5.0	15.0
M4-9V	30 in	24 in	DETOUR ↑				1	ORANGE	BLACK	BLACK	MOUNT W/ MA-D3-1	5.0	5.0
M4-10L	48 in	18 in	←DETOUR				1	ORANGE	BLACK	BLACK	MOUNT ON BARRICADE	6.0	6.0
M4-10R	48 in	18 in	DETOUR→				1	ORANGE	BLACK	BLACK	MOUNT ON BARRICADE	6.0	6.0
MA-D3-1	42 in	12 in	Sutton st	6/4D	3 3		7	ORANGE	BLACK	BLACK	P-5 7	3.50	24.5



NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS

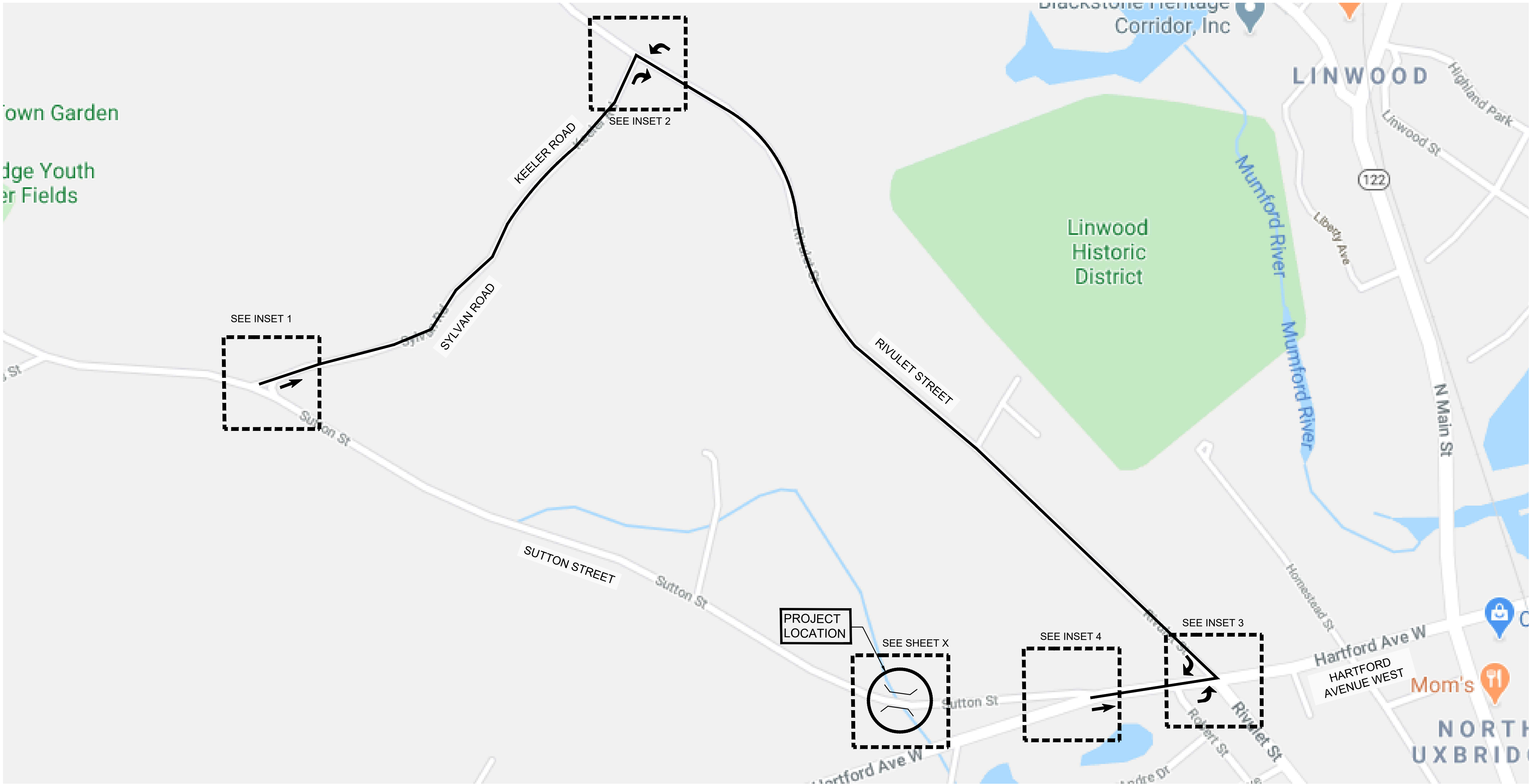
DRAWN BY:	ANA
DESIGNED BY:	ANA
CHECKED BY:	GL



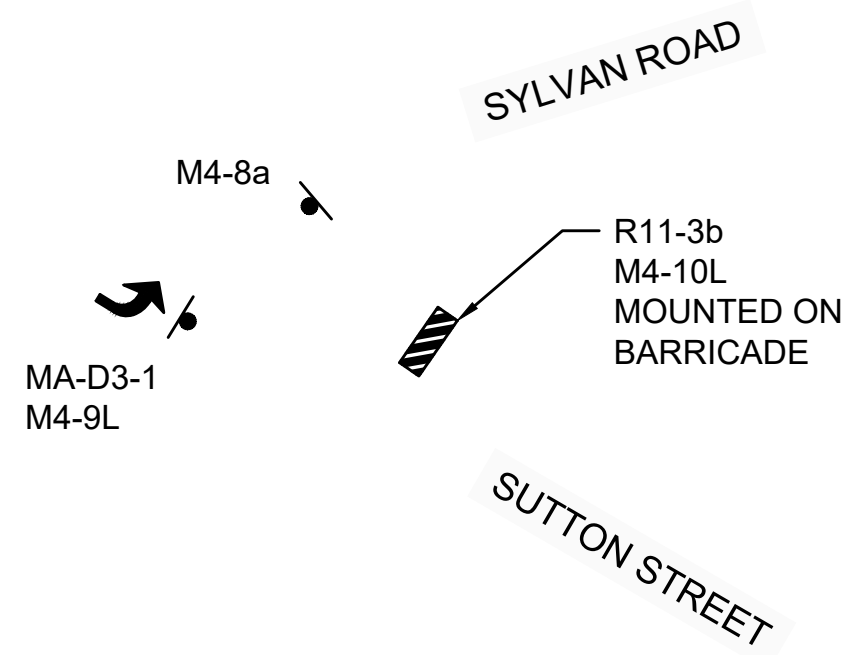
TITLE	Sutton Street Culvert Uxbridge, Massachusetts DETOUR PLAN
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BETA JOB NO.	7063
ISSUE DATE	3/13/2024
SHEET NO.	10 of 11

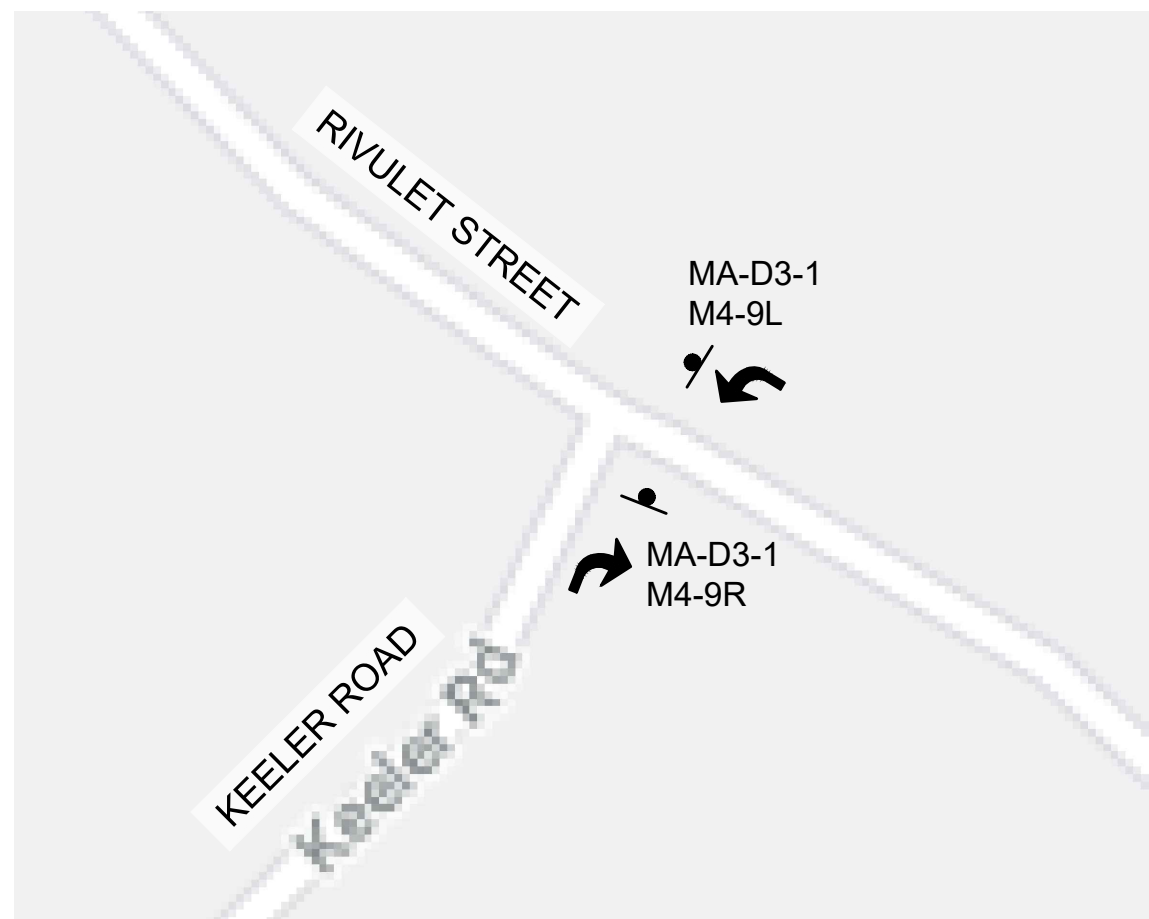
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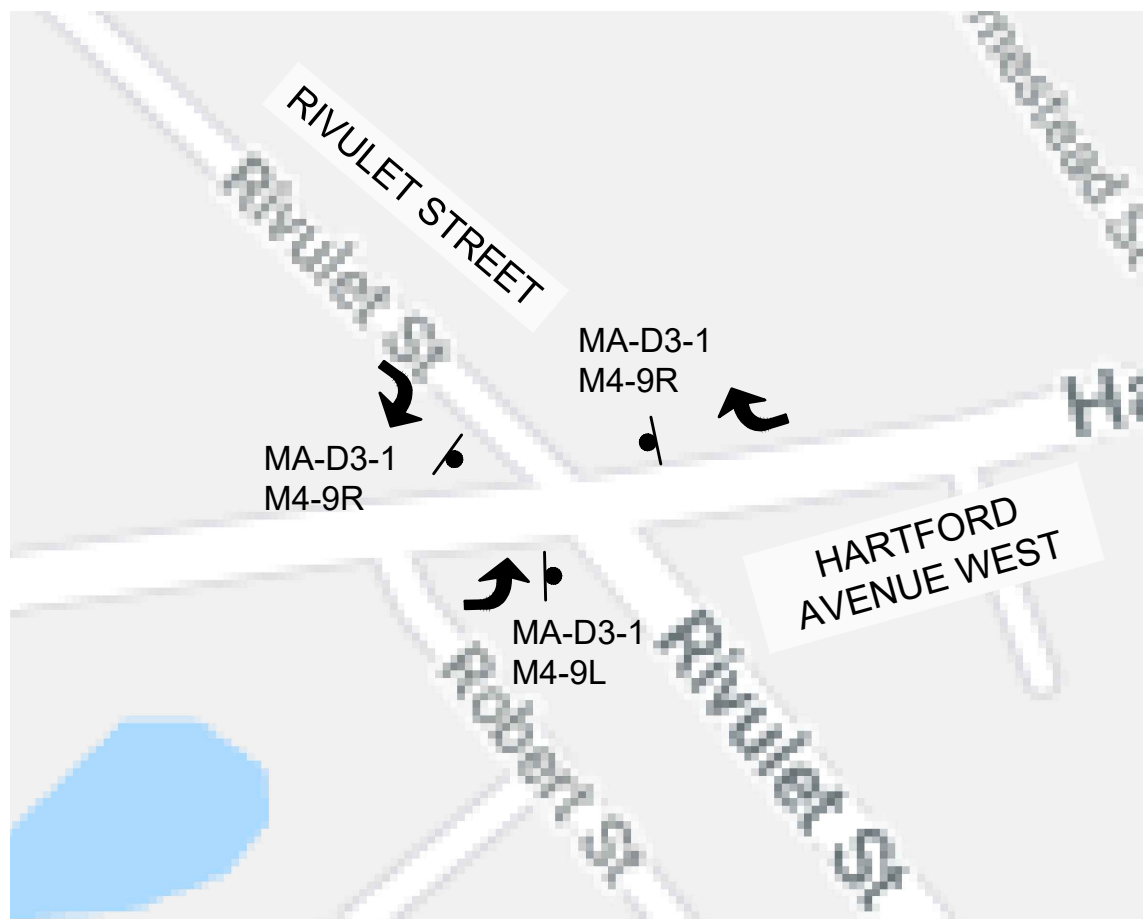
- NOTES:
1. EMERGENCY ACCESS MUST BE MAINTAINED TO ALL PROPERTIES AT ALL TIMES.
 2. DETOUR SIGNS SHALL BE COVERED WHEN DETOUR IS NOT IN ACTIVE USE.



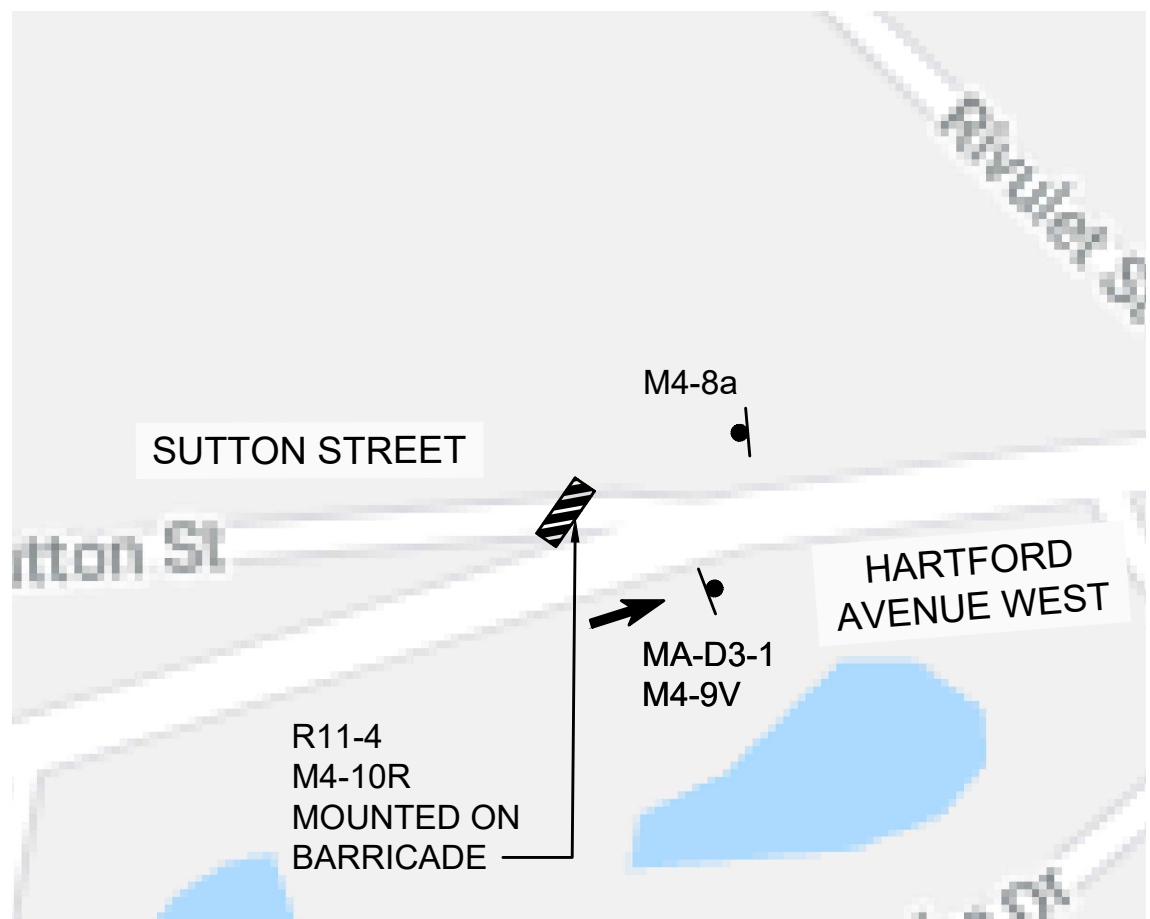
INSET 1
NOT TO SCALE



INSET 2
NOT TO SCALE



INSET 3
NOT TO SCALE



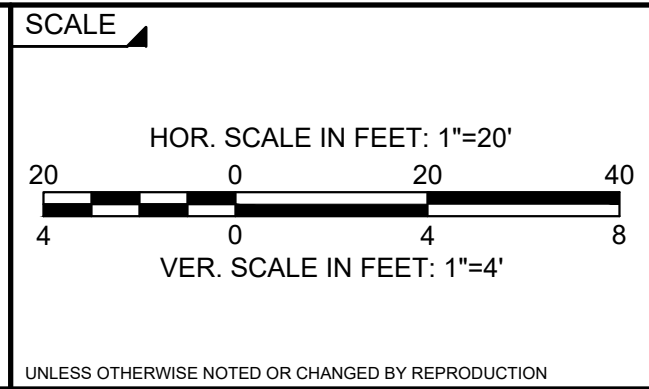
INSET 4
NOT TO SCALE

NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS

DRAWN BY:	ANA
DESIGNED BY:	ANA
CHECKED BY:	GL



SUBCONSULTANT



TITLE	Sutton Street Culvert Uxbridge, Massachusetts DETOUR PLAN
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BETA JOB NO.	7063
ISSUE DATE	3/13/2024
SHEET NO.	11 of 11