

CONSTRUCTION DOCUMENTS FOR REPLACEMENT OF PLEASANT VALLEY ROAD BRIDGE OVER MENUNKETESUCK RIVER CLINTON, CONNECTICUT BRIDGE NO. 04609

FEBRUARY 18, 2020

FROM STA. 1+00.00 TO STA. 5+20.00

420 FT.

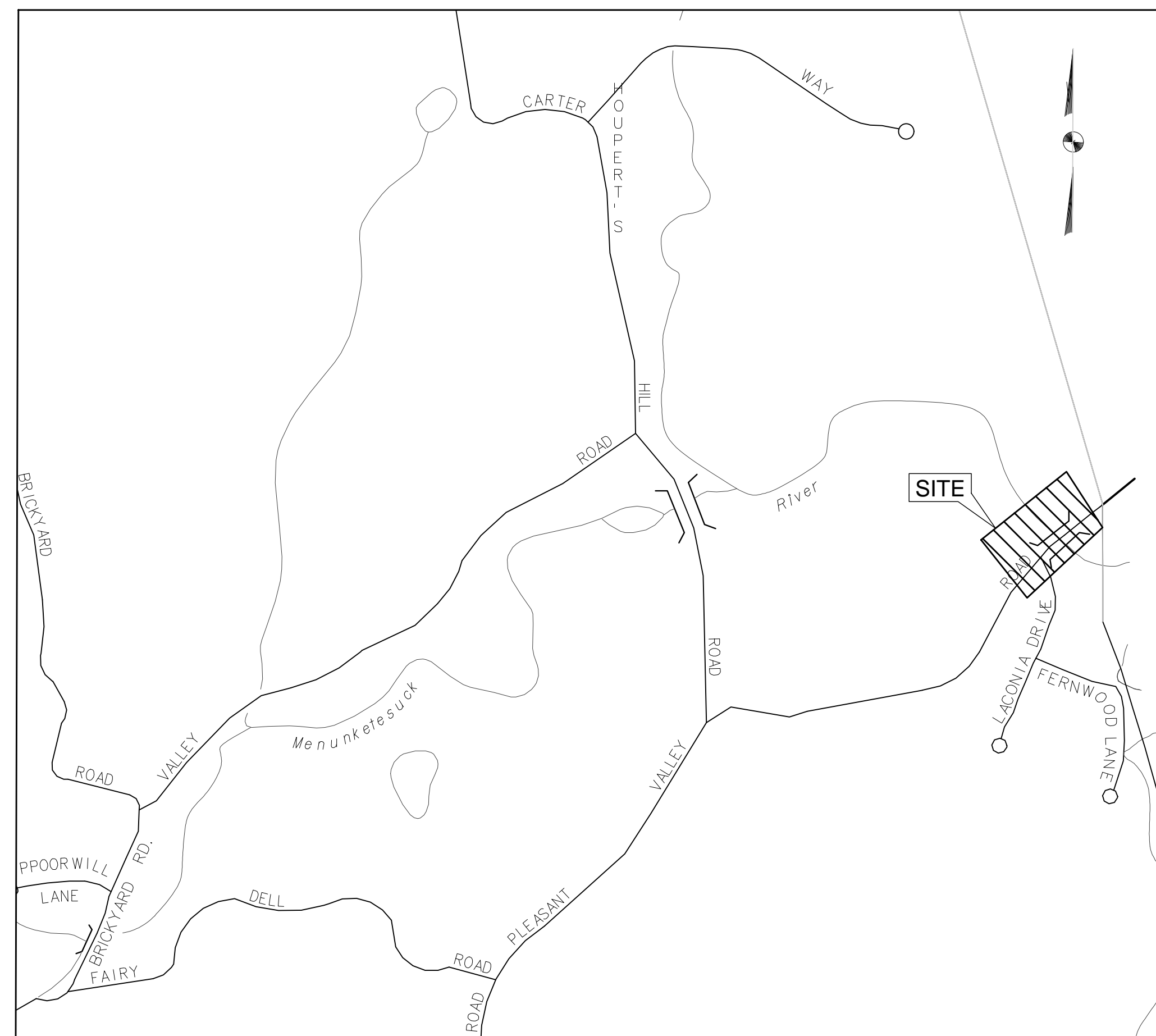
DESIGN { PLAN 1 IN. = 20 FT.
PROFILE HOR. 1 IN. = 20 FT. VERT. 1 IN. = 2 FT.
CROSS SECTIONS 1 IN. = 5 FT.

SCALES OTHER SCALES AS NOTED

KARL F. KILDUFF
TOWN MANAGER

TODD HAJEK
DIRECTOR OF PUBLIC WORKS

(TO BE MAINTAINED BY TOWN OF CLINTON)

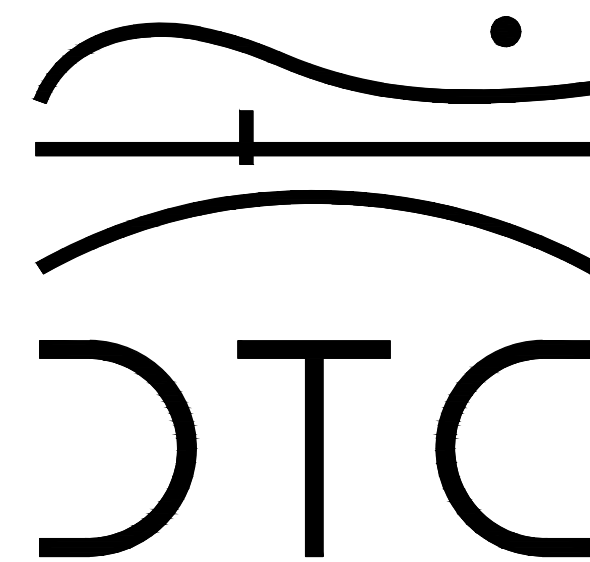


PROJECT LOCATION MAP
1" = 500'

2016 SPECIFICATIONS, 817 INCLUDING SUPPLEMENTS THERETO DATED.

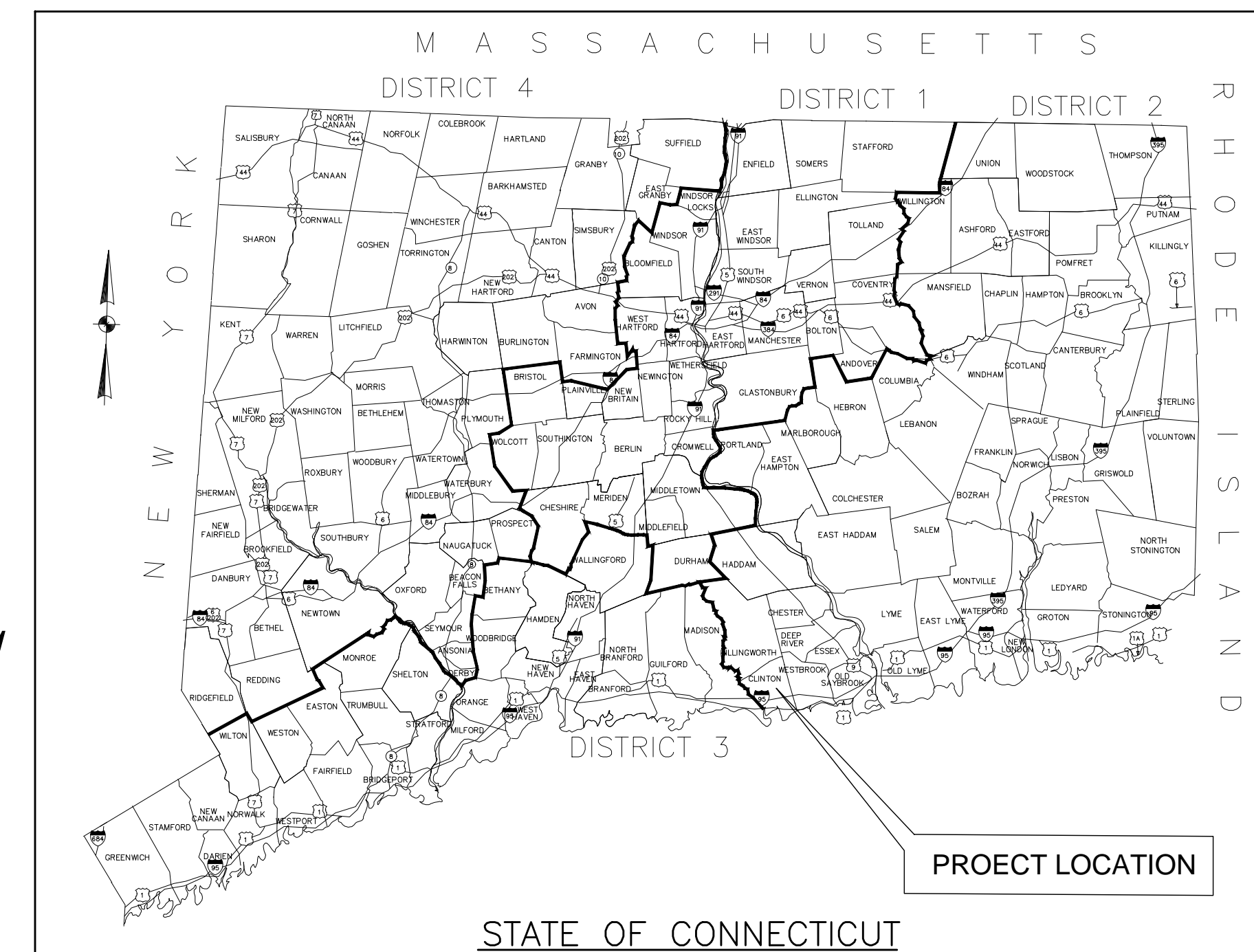
SURVEY DATED 12/19/2016 WAS PERFORMED BY MARTIN SURVEY & ASSOCIATES UTILIZING THE CONNECTICUT GRID SYSTEM NAD 83. ALL ELEVATIONS REFER TO NAVD 1988 DATUM.

THE LOCATIONS OF ALL UTILITIES HEREON ARE BASED ON THE BEST AVAILABLE DATA, THE LOCATIONS ARE APPROXIMATE AND ALL UTILITIES MAY NOT BE SHOWN. PRIOR TO BEGINNING ANY CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY "CALL BEFORE YOU DIG" 1-800-922-4455 AND HAVE ALL UTILITIES MARKED ON THE GROUND.



2321 Whitney Avenue - Hamden Center II - Hamden CT 06518
Ph: 203 239 4200 Fax: 203 234 7376
www.teamdte.com

DESIGN SPEED 25mph
POSTED SPEED 30mph



DRAWING INDEX	
SHEET NO.	DRAWING TITLE
1	TITLE SHEET
2	DETAILED ESTIMATE SHEET
3	EXISTING CONDITIONS
4	BORING LOGS
5	KEY PLAN AND PROFILES
6	GENERAL NOTES
7	PLAN AND LONGITUDINAL SECTION
8	ABUTMENT 1 PLAN & ELEVATION
9	ABUTMENT 2 PLAN & ELEVATION
10	ABUTMENT SECTIONS & DETAILS
11	WINGWALL SECTION & SUBSTRUCTURE DETAILS
12	FRAMING PLAN, SUBSTRUCTURE SECTION & DETAILS
13	PRECAST DECK SLAB 'A' DETAILS
14	PRECAST DECK SLAB 'B' DETAILS
15	PRECAST DECK SLAB 'C' DETAILS
16	PRECAST DECK SLAB 'D' DETAILS
17	BRIDGE END POST & PARAPET DETAILS
18	SUPERSTRUCTURE DETAILS
19	TYPICAL SECTION
20	PLAN
21	PROFILE
22	CROSS SECTION
23	CROSS SECTION
24	CROSS SECTION
25	DETOUR PLAN
26	E&S PLAN
27	DETAILS
	CT DOT HIGHWAY STANDARD SHEETS
	CT DOT TRAFFIC STANDARD SHEETS

PREPARED BY: DIVERSIFIED TECHNOLOGY CONSULTANTS

PER: *A. Graham* DATE: 02/18/2020
A. GRAHAM CURTIS, PE

CONN. PROF. ENG. REG. NO.: 0015805

F.H.W.A. REGION NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	CLINTON		9027-4609	2020		1	41

DETAILED ESTIMATE SHEET

FOR THE REPLACEMENT OF BRIDGE NO. 04609

ROADWAY ITEMS

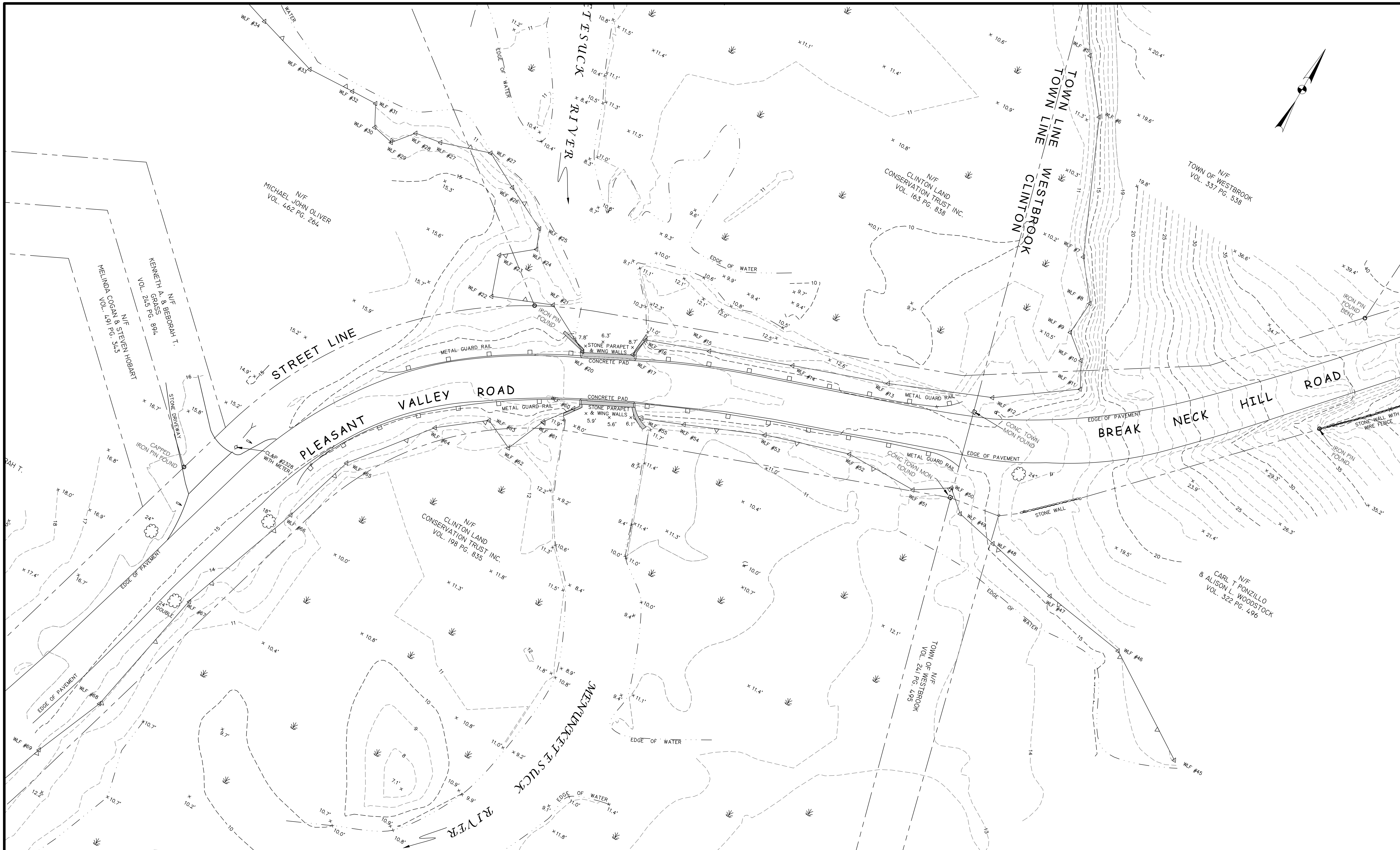
Bridge No.	Station To Station	ROADWAY ITEMS																																		
		L.S.	C.Y.	C.Y.	EST.	L.S.	293	1090	157	318	150	698	114	113	109	20	4	360	4	56	684	EST.	403	684	281	9	L.S.	L.S.	1643	10	10	6	L.S.	814	322	
		L.S.	240	40	EST.	70	L.S.	293	1090	157	318	150	698	114	113	109	20	4	360	4	56	684	EST.	403	684	281	9	L.S.	L.S.	1643	10	10	6	L.S.	814	322
		L.S.	240	40	EST.	70	L.S.	293	1090	157	318	150	698	114	113	109	20	4	360	4	56	684	EST.	403	684	281	9	L.S.	L.S.	1643	10	10	6	L.S.	814	322
		L.S.	240	40	EST.	70	L.S.	293	1090	157	318	150	698	114	113	109	20	4	360	4	56	684	EST.	403	684	281	9	L.S.	L.S.	1643	10	10	6	L.S.	814	322

BRIDGE ITEMS

Bridge No.	Station To Station	BRIDGE ITEMS																													
		CY	CY	CY	L.F.	TON	TON	L.F.	GAL	L.S.	L.F.	L.F.	C.I.	C.Y.	C.Y.	L.F.	C.Y.	S.F.	L.F.	LB	S.F.	LB	L.F.	EA.	EA.	S.Y.	S.Y.	C.F.	EA.	L.S.	
		890	120	520	55	24	12	70	20	L.S.	34	238	3965	110	110	70	55	120	54	54000	480	115000	2100	1	1	200	140	64	72	L.S.	
		890	120	520	55	24	12	70	20	L.S.	34	238	3965	110	110	70	55	120	54	54000	480	115000	2100	1	1	200	140	64	72	L.S.	
		890	120	520	55	24	12	70	20	L.S.	34	238	3965	110	110	70	55	120	54	54000	480	115000	2100	1	1	200	140	64	72	L.S.	

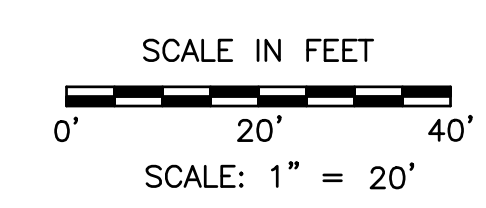
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>REV.</th> <th>DATE</th> <th>DESCRIPTION</th> <th>SHT. NO.</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	REV.	DATE	DESCRIPTION	SHT. NO.					DESIGNER: JAB DRAFTER: CJS CHECKED BY: SRL DATE CHECKED: 2/17/2020	<h3 style="margin: 0;">TOWN OF CLINTON</h3> ENGINEER: DIVERSIFIED TECHNOLOGY CONSULTANTS APPROVED BY: <i>[Signature]</i> DATE:	PROJECT TITLE: REPLACEMENT OF PLEASANT VALLEY ROAD BRIDGE OVER MENUNKETESUCK RIVER CADD: P:\2016\16155 Pleasant Valley Bridge\106\0-Current PLOTTED: FEBRUARY 18, 2020
REV.	DATE	DESCRIPTION	SHT. NO.								
DRAWING TITLE: <h2 style="margin: 0;">DETAILED ESTIMATE SHEET</h2>		PROJECT NO.: 9027-4609 DRAWING NO.: EST-1 SHEET NO.: 2									

File: 07_2020 - 0266m
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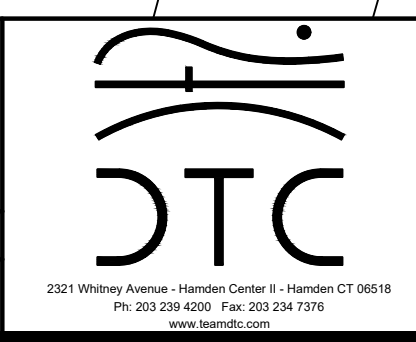
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 ssm:adad

REV.	DATE	DESCRIPTION	SHT. NO.



DESIGNER: JAB
 DRAFTER: CJS
 CHECKED BY: SRL
 DATE CHECKED: 2/17/2020

TOWN OF CLINTON
 ENGINEER: DIVERSIFIED TECHNOLOGY CONSULTANTS
 APPROVED BY: _____ DATE: _____



PROJECT TITLE:
REPLACEMENT OF PLEASANT VALLEY ROAD BRIDGE OVER MENUNKETESUCK RIVER
 CADD: P:\2016\16155 Pleasant Valley Bridge\106\0-Curren
 PLOTTED: FEBRUARY 18, 2020

DRAWING TITLE:
 EXISTING CONDITIONS

PROJECT NO.:
9027-4609
 DRAWING NO.:
 EX-1
 SHEET NO.:
 3

CLARENCE WELTI ASSOC., INC. P.O. BOX 397 GLASTONBURY, CONN 06033				CLIENT DTC				PROJECT NAME BRIDGE OVER MENUNKETESUCK RIVER LOCATION PLEASANT VALLEY ROAD, CLINTON, CT SUBJECT: 17.0 HOLE NO. B-1			
TYPE	AUGER	CASING	SAMPLER	CORE BAR	OFFSET	LINE & STA.	GROUND WATER OBSERVATIONS AT 10.0 FT. AFTER 0 HOURS	START DATE	FINISH DATE		
SIZE I.D.	3.75"		1.375"	2.0"				1/26/17			
HAMMER WT.			140lbs			N. COORDINATE	AT FT. AFTER HOURS				
HAMMER FALL			30"			E. COORDINATE	AT FT. AFTER HOURS				
DEPTH	SAMPLE		STRATUM DESCRIPTION		REMARKS		ELEV.				
0							0.33	ASPHALT			
1	5-8-5	1.0'-3.0'	BR.FINE-CRS.SAND, LITTLE GRAVEL, TRACE SILT - FILL				15				
2	3-3-2-2	3.0'-5.0'									
3	2-1-1-0	5.0'-7.0'									
4	1-0-1-4	7.0'-9.0'	BLACK ORGANIC SILT				10				
5	3-7-8-5	9.0'-11.0'	GREY/BR.FINE-CRS.SAND, LITTLE SILT & GRAVEL				8.5				
6	4-5-7	15.0'-16.5'									
7	2-3-5	20.0'-21.5'	BR.SILT				18.0				
8	3-5-6	25.0'-26.5'									
9	15-11-9	30.0'-31.5'	BR.FINE-CRS.SAND, LITTLE SILT & GRAVEL				30.0				

LEGEND: COL. A:
 SAMPLE TYPE: D-DRY A-AUGER C-CORE U-UNDISTURBED PISTON S-SPLIT SPOON
 PROPORTIONS USED: TRACE-0-10% LITTLE-10-20% SOME-20-35% AND-35-50%

DRILLER: K. CHRISTIANA
 INSPECTOR:
 SHEET 1 OF 2 HOLE NO. B-1

CLARENCE WELTI ASSOC., INC. P.O. BOX 397 GLASTONBURY, CONN 06033				CLIENT DTC				PROJECT NAME BRIDGE OVER MENUNKETESUCK RIVER LOCATION PLEASANT VALLEY ROAD, CLINTON, CT SUBJECT: 17.0 HOLE NO. B-1			
DEPTH	SAMPLE		STRATUM DESCRIPTION		REMARKS		ELEV.				
10	7-8-6	35.0'-36.5'					-20				
11	5-7-9	40.0'-41.5'	BR.FINE-CRS.SAND, TRACE SILT				40.0				
12	9-11-12	45.0'-46.5'	BR.FINE-CRS.SAND, SOME SILT, LITTLE GRAVEL				44.0				
13	60	50.0'-50.1'	CORED BEDROCK - SCHIST AND GNEISS				50.0				
			RUN# 1 50.0' - 55.0' RECOVERED 55" ROD=65%				-35				
			BOTTOM OF BORING @ 55.0'				55.0				

LEGEND: COL. A:
 SAMPLE TYPE: D-DRY A-AUGER C-CORE U-UNDISTURBED PISTON S-SPLIT SPOON
 PROPORTIONS USED: TRACE-0-10% LITTLE-10-20% SOME-20-35% AND-35-50%

DRILLER: K. CHRISTIANA
 INSPECTOR:
 SHEET 2 OF 2 HOLE NO. B-1

CLARENCE WELTI ASSOC., INC. P.O. BOX 397 GLASTONBURY, CONN 06033				CLIENT DTC				PROJECT NAME BRIDGE OVER MENUNKETESUCK RIVER LOCATION PLEASANT VALLEY ROAD, CLINTON, CT SUBJECT: 17.0 HOLE NO. B-2			
DEPTH	SAMPLE		STRATUM DESCRIPTION		REMARKS		ELEV.				
0							0.40	ASPHALT			
1	6-8-7-4	1.0'-3.0'	BR.FINE-CRS.SAND, LITTLE GRAVEL, TRACE SILT - FILL				15				
2	5-4-4-3	3.0'-5.0'									
3	2-1-0-1	5.0'-7.0'	BLACK ORGANIC SILT				5.5				
4	1-1-1-1	7.0'-9.0'									
5	3-7-9-9	9.0'-11.0'	GREY/BR.FINE-CRS.SAND, LITTLE GRAVEL, TRACE SILT				9.5				
6	3-3-5	15.0'-16.5'	GREY/BR.FINE-MED.SAND, TRACE SILT				15.0				
7	5-7-9	20.0'-21.5'	BR.SILT				18.0				
8	8-8-9	25.0'-26.5'	BR.FINE-CRS.SAND, LITTLE GRAVEL, TRACE SILT				23.0				
9	3-5-9	30.0'-31.5'									

LEGEND: COL. A:
 SAMPLE TYPE: D-DRY A-AUGER C-CORE U-UNDISTURBED PISTON S-SPLIT SPOON
 PROPORTIONS USED: TRACE-0-10% LITTLE-10-20% SOME-20-35% AND-35-50%

DRILLER: K. CHRISTIANA
 INSPECTOR:
 SHEET 1 OF 2 HOLE NO. B-2

CLARENCE WELTI ASSOC., INC. P.O. BOX 397 GLASTONBURY, CONN 06033				CLIENT DTC				PROJECT NAME BRIDGE OVER MENUNKETESUCK RIVER LOCATION PLEASANT VALLEY ROAD, CLINTON, CT SUBJECT: 17.0 HOLE NO. B-2			
DEPTH	SAMPLE		STRATUM DESCRIPTION		REMARKS		ELEV.				
10	4-5-8	35.0'-36.5'					-20				
11	6-7-13	40.0'-41.5'	GREY FINE-CRS.SAND, SOME SILT, LITTLE GRAVEL				38.0				
12											
13											
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43											
44											
45			CORED BEDROCK - SCHIST AND GNEISS				44.0				
46											
47			RUN# 1 44.0' - 49.0' RECOVERED 56" ROD=47%				-30				
48											
49											
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LEGEND: COL. A:
 SAMPLE TYPE: D-DRY A-AUGER C-CORE U-UNDISTURBED PISTON S-SPLIT SPOON
 PROPORTIONS USED: TRACE-0-10% LITTLE-10-20% SOME-20-35% AND-35-50%

DRILLER: K. CHRISTIANA
 INSPECTOR:
 SHEET 2 OF 2 HOLE NO. B-2

Feb 07, 2020 8:05am
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 mshahadad

REV.	DATE	DESCRIPTION	SHT. NO.

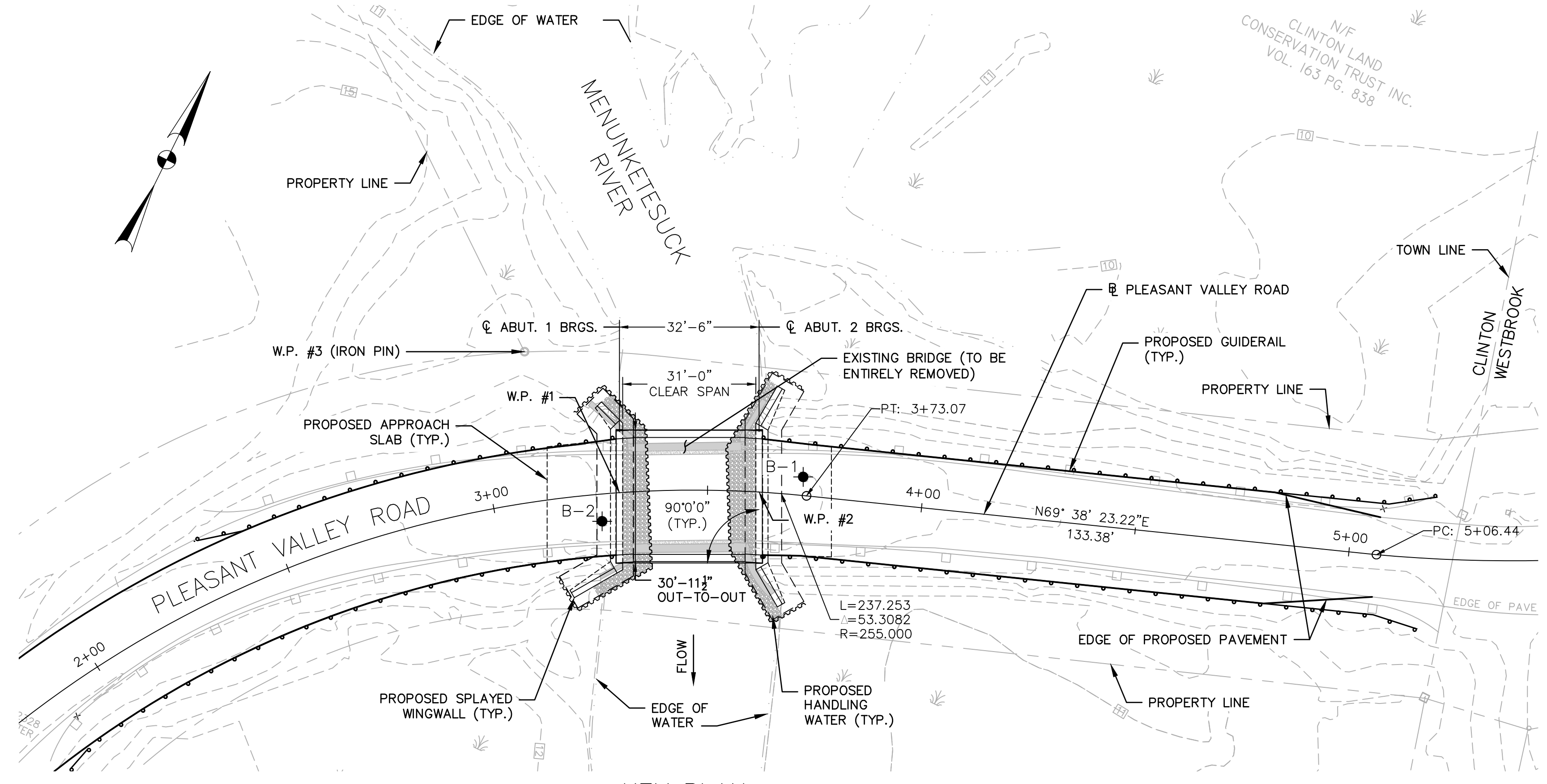
DESIGNER:	JAB	TOWN OF CLINTON
DRAFTER:	CJS	
CHECKED BY:	SRL	ENGINEER: DIVERSIFIED TECHNOLOGY CONSULTANTS
DATE CHECKED:	2/17/2020	APPROVED BY: _____ DATE: _____



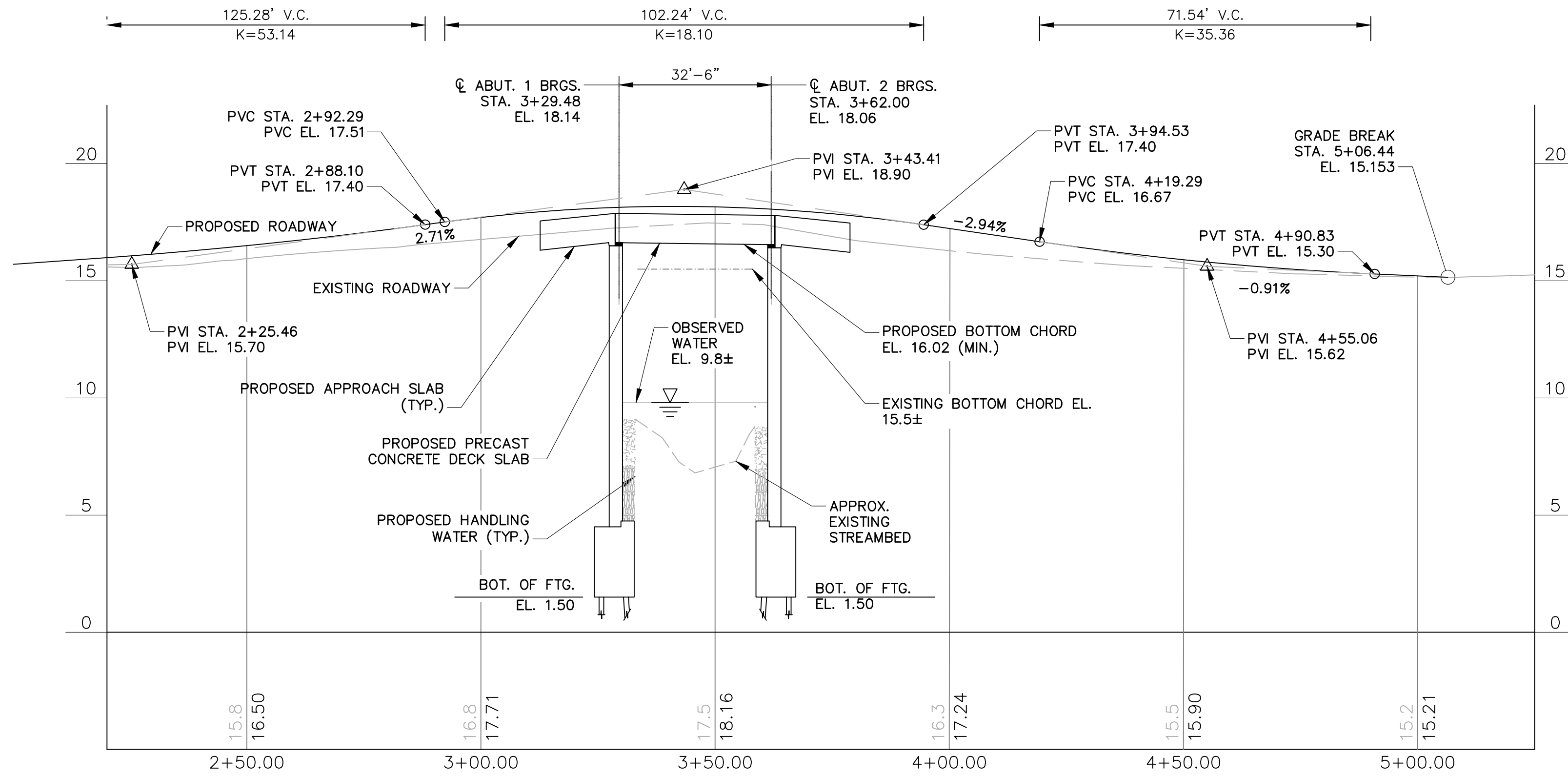
PROJECT TITLE:
 REPLACEMENT OF PLEASANT VALLEY ROAD BRIDGE OVER MENUNKETESUCK RIVER
 CADD: P:\2016\16155 Pleasant Valley Bridge\106\0-CURRENT
 PLOTTED: FEBRUARY 18, 2020

DRAWING TITLE:
 BORING LOGS

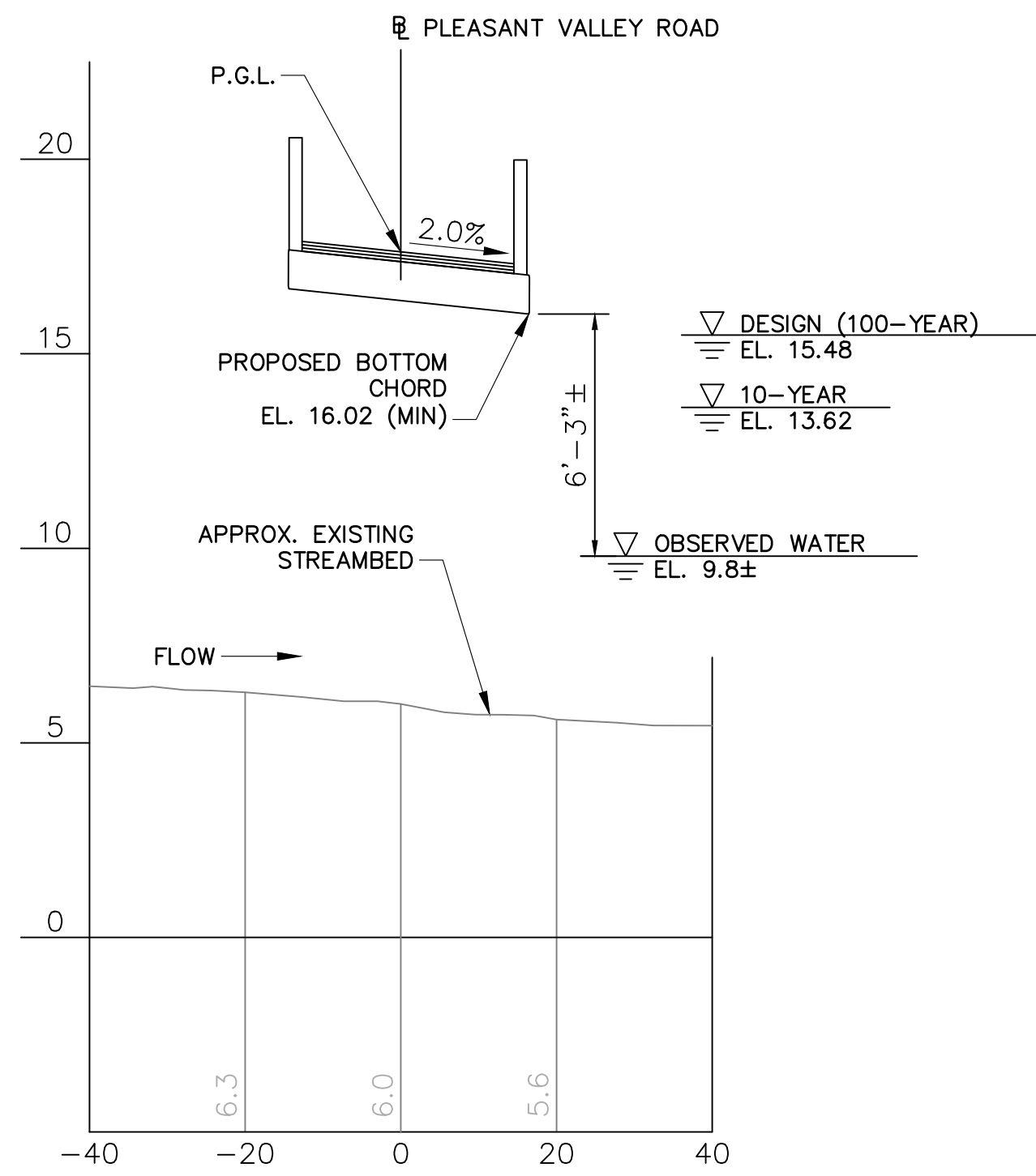
PROJECT NO.: 9027-4609
 DRAWING NO.: BL-1
 SHEET NO.: 4



KEY PLAN
SCALE: 1" = 20'



PROFILE \square PLEASANT VALLEY ROAD
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE $\frac{1}{4}$ " = 1'-0"

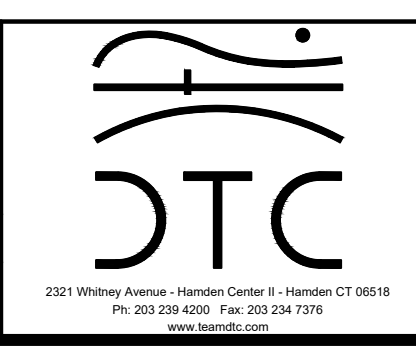


PROFILE MENUNKETESUCK RIVER
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE $\frac{1}{4}$ " = 1'-0"

File: 07_2020 - 02/18/20
 P:\2016\16155 Pleasant Valley Bridge\104\0-Current\04600_BRI_Key Plan.dwg
 mwh/abj/af

REV.	DATE	DESCRIPTION	SHT. NO.

DESIGNER: KJD	TOWN OF CLINTON
DRAFTER: CJW	
CHECKED BY: RLO	ENGINEER: DIVERSIFIED TECHNOLOGY CONSULTANTS
DATE CHECKED: 02/17/2020	APPROVED BY: _____ DATE: _____



PROJECT TITLE: REPLACEMENT OF PLEASANT VALLEY ROAD BRIDGE OVER MENUNKETESUCK RIVER
CADD: P:\2016\16155 Pleasant Valley Bridge\104\0-Current
PLOTTED: FEBRUARY 18, 2020

DRAWING TITLE: KEY PLAN AND PROFILES
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PROJECT NO.: 9027-4609
DRAWING NO.: S-1
SHEET NO.: 5

GENERAL NOTES

SPECIFICATIONS: CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, FACILITIES AND INCIDENTAL CONSTRUCTION FORM 817 (2016), SUPPLEMENTAL SPECIFICATION DATED 07/19, AND SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS (8TH EDITION-2017), AS SUPPLEMENTED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE DESIGN MANUAL (2003) REVISION 12/19.

CAST-IN-PLACE DESIGN STRESSES:

CLASS "PCCO 3340" $f'c = 3300$ PSI
 CLASS "PCCO 4460 AND 4462" $f'c = 4400$ PSI
 REINFORCEMENT (ASTM A615 GRADE 60) $fy = 60,000$ PSI

PRECAST DESIGN STRESSES:

CONCRETE $f'c = 6500$ PSI
 PRESTRESSING STRANDS $fy = 270,000$ PSI

THE CONCRETE STRENGTH, $f'c$, USED IN DESIGN OF THE CONCRETE COMPONENTS IS NOTED ABOVE. THE COMPRESSIVE STRENGTH OF THE CONCRETE IN THE CONSTRUCTED COMPONENTS SHALL CONFORM TO THE REQUIREMENTS OF 6.01-CONCRETE FOR STRUCTURES, AND M.03 -PORTLAND CEMENT CONCRETE.

LIVE LOAD: HL-93, LEGAL AND PERMIT VEHICLES

FUTURE PAVING ALLOWANCE: NONE

BITUMINOUS CONCRETE OVERLAY: THE OVERLAY TO CONSIST OF TWO COURSES. THE FIRST TO BE BITUMINOUS CONCRETE - 1" SUPERPAVE - 0.25 (HMA S0.25) AND THE SECOND TO BE BITUMINOUS CONCRETE - 2" SUPERPAVE - 0.5 (HMA S0.5).

FOUNDATIONS: FOUNDATIONS MAY BE ALTERED, IF NECESSARY, TO SUIT CONDITIONS ENCOUNTERED DURING CONSTRUCTION, WITH THE APPROVAL OF THE ENGINEER.

DIMENSIONS: WHEN DIMENSIONS ARE GIVEN TO LESS THAN THREE DECIMAL PLACES THE OMITTED DIGITS SHALL BE ASSUMED TO BE ZERO.

EXISTING PLANS: THERE ARE NO EXISTING BRIDGE PLANS. LIMITS OF EXISTING STRUCTURE SHOWN ON THESE PLANS ARE FOR GENERAL REFERENCE ONLY. EXISTING STRUCTURE INFORMATION HAS BEEN TAKEN FROM FIELD SURVEY AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL TAKE ALL FIELD MEASUREMENTS NECESSARY TO ASSURE REMOVAL QUANTITY ACCURACY.

UTILITIES: THE FOLLOWING UTILITIES ARE LOCATED WITHIN THE PROJECT LIMITS AND NEED TO BE PROTECTED DURING CONSTRUCTION: CONNECTICUT LIGHT AND POWER. THE CONTRACTOR WILL COORDINATE ALL WORK RELATED TO UTILITY RELOCATION WITH THE RESPECTIVE UTILITY COMPANIES.

UNSUITABLE MATERIAL: ALL UNSUITABLE MATERIAL SHALL BE REMOVED WITHIN THE LIMITS OF THE BRIDGE, AS DIRECTED BY THE ENGINEER.

CONCRETE NOTES

THE FOLLOWING PAY ITEMS AND CONCRETE CLASSES ARE REQUIRED FOR CAST-IN-PLACE BRIDGE COMPONENTS:

ITEM	BRIDGE COMPONENTS	PCC CLASS
FOOTING CONCRETE	ABUTMENT AND WINGWALL FOOTINGS	PCC03340
ABUTMENT AND WALL CONCRETE	ABUTMENT AND WINGWALL STEMS,	PCC03340
PARAPET CONCRETE	BRIDGE PARAPET, END POSTS AND KEEPER BLOCKS	PCC04462
APPROACH SLAB CONCRETE	APPROACH SLABS	PCC04460

EXPOSED EDGES: EXPOSED EDGES OF CONCRETE WILL BE BEVELED 1"x1" UNLESS DIMENSIONED OTHERWISE.

CONCRETE COVER: ALL REINFORCEMENT WILL HAVE TWO INCHES COVER UNLESS DIMENSIONED OTHERWISE.

REINFORCEMENT: ALL REINFORCEMENT WILL BE GALVANIZED AFTER FABRICATION UNLESS NOTED OTHERWISE. ALL REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF ASTM A767, CLASS 1, INCLUDING SUPPLEMENTAL REQUIREMENTS. THE COST OF FURNISHING AND PLACING THIS REINFORCEMENTS SHALL BE INCLUDED IN THE ITEM "DEFORMED STEEL BARS-GALVANIZED."

PREFORMED EXPANSION JOINT FILLER: THE COST OF FURNISHING AND INSTALLING PREFORMED EXPANSION JOINT FILLER IS PAID FOR AS "1", TYPE II PREFORMED EXPANSION JOINT FILLER FOR BRIDGES."

CONSTRUCTION JOINTS: CONSTRUCTION JOINTS, OTHER THAN THOSE SHOWN ON THE PLANS, WILL NOT BE PERMITTED WITHOUT THE PRIOR APPROVAL OF ENGINEER.

HYDRAULIC DATA:

DRAINAGE AREA: 13.4 SQUARE MILES
 DESIGN DISCHARGE: 1,980 CUBIC FEET PER SECOND
 DESIGN FREQUENCY: 100 YEARS
 DESIGN VELOCITY: 3.16 FEET PER SECOND
 DESIGN FLOOD ELEVATION: 15.48 FEET, (NAVD-88)

BASE (100-YEAR) FLOOD DATA

BASE FLOOD DISCHARGE: 1,980 CUBIC FEET PER SECOND
 BASE FLOOD ELEVATION: 15.48 FEET (NAVD-88)

DESIGN AND CHECK SCOUR DATA

DESIGN SCOUR FLOOD EVENT RETURN FREQUENCY: 100 YEARS
 CHECK SCOUR FLOOD EVENT RETURN FREQUENCY: 500 YEARS
FLOOD OF RECORD

DISCHARGE: UNKNOWN
 FREQUENCY: UNKNOWN
 MAXIMUM ELEVATION: UNKNOWN
 DATE: UNKNOWN
 HISTORY OF ICE FLOES: NONE DOCUMENTED IN NBIS DATABASE
 EVIDENCE OF SCOUR AND EROSION: NONE DOCUMENTED IN NBIS DATABASE

MAJOR WORK

ENTIRELY REMOVE EXISTING BRIDGE.
 CONSTRUCT NEW ABUTMENTS.
 INSTALL PRECAST CONCRETE DECK SLABS.
 CONSTRUCT WINGWALLS AND KEEPER BLOCKS.
 CONSTRUCT APPROACH SLABS.
 CONSTRUCT PARAPETS AND ENDPOSTS.
 PLACE NEW BITUMINOUS CONCRETE WEARING SURFACE.

CONCRETE DISTRIBUTION (C.Y.)

SUPERSTRUCTURE - CLASS "PCC04462"	15
SUPERSTRUCTURE - CLASS "PCC04460"	55
SUBSTRUCTURE - CLASS "PCC03340"	110
FOOTINGS - CLASS "PCC03340"	110
TOTAL	290

PRECAST CONCRETE DECK UNITS SHIPPING DATA

MAXIMUM LENGTH	MAXIMUM HEIGHT	MAXIMUM WIDTH	MAXIMUM WEIGHT
34'-0"	2'-6"	4'-0"	12 TON

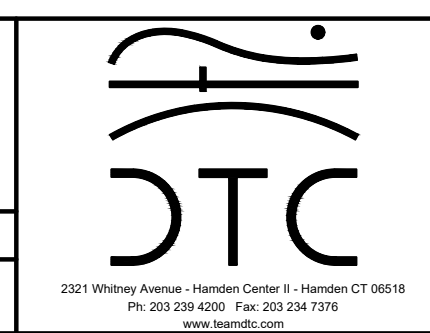
NOTE TO BRIDGE INSPECTOR

THE DEPARTMENT'S BRIDGE SAFETY PROCEDURES REQUIRE THIS BRIDGE TO BE INSPECTED FOR, BUT NOT LIMITED TO, ALL APPROPRIATE COMPONENTS INDICATED IN THE GOVERNING MANUALS FOR BRIDGE INSPECTION. ATTENTION MUST BE GIVEN TO INSPECTING THE FOLLOWING SPECIAL COMPONENTS AND DETAILS. (THE LISTING OF COMPONENTS FOR SPECIFIC ATTENTION SHALL NOT BE CONSTRUED TO REDUCE THE IMPORTANCE OF INSPECTION OF ANY OTHER COMPONENT OF THE STRUCTURE). THE FREQUENCY OF INSPECTION OF THIS STRUCTURE SHALL BE IN ACCORDANCE WITH THE GOVERNING MANUALS FOR BRIDGE INSPECTION UNLESS OTHERWISE DIRECTED BY CONNDOT'S MANAGER OF BRIDGE SAFETY AND EVALUATION.

COMPONENT OR DETAILS	BRIDGE SHEET REFERENCE
FOLLOW NORMAL INSPECTION PROCEDURE	

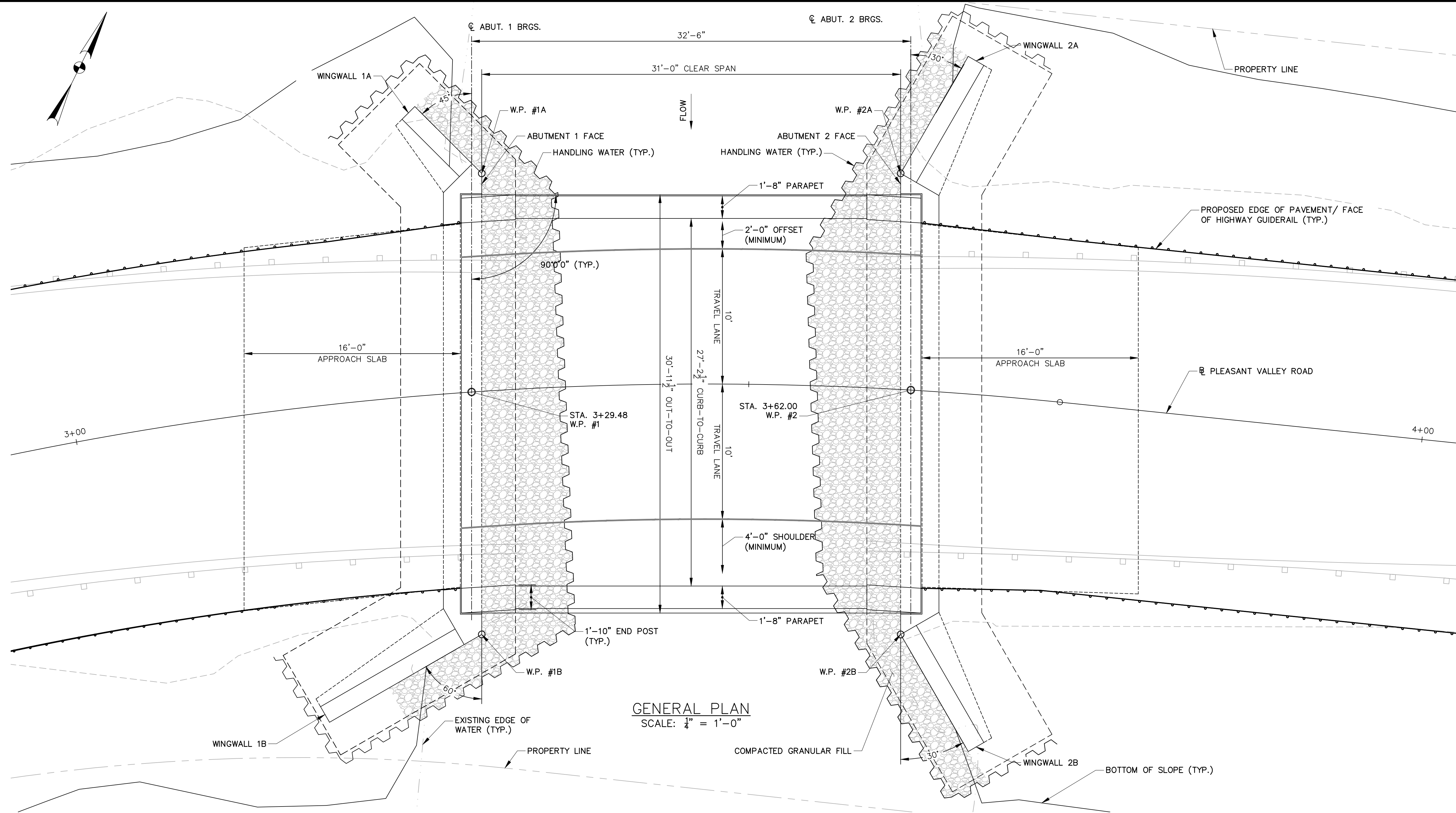
REV.	DATE	DESCRIPTION	SHT. NO.

DESIGNER: KJD	TOWN OF CLINTON
DRAFTER: CJW	
CHECKED BY: RLO	ENGINEER: DIVERSIFIED TECHNOLOGY CONSULTANTS
DATE CHECKED: 02/17/2020	APPROVED BY: _____ DATE: _____

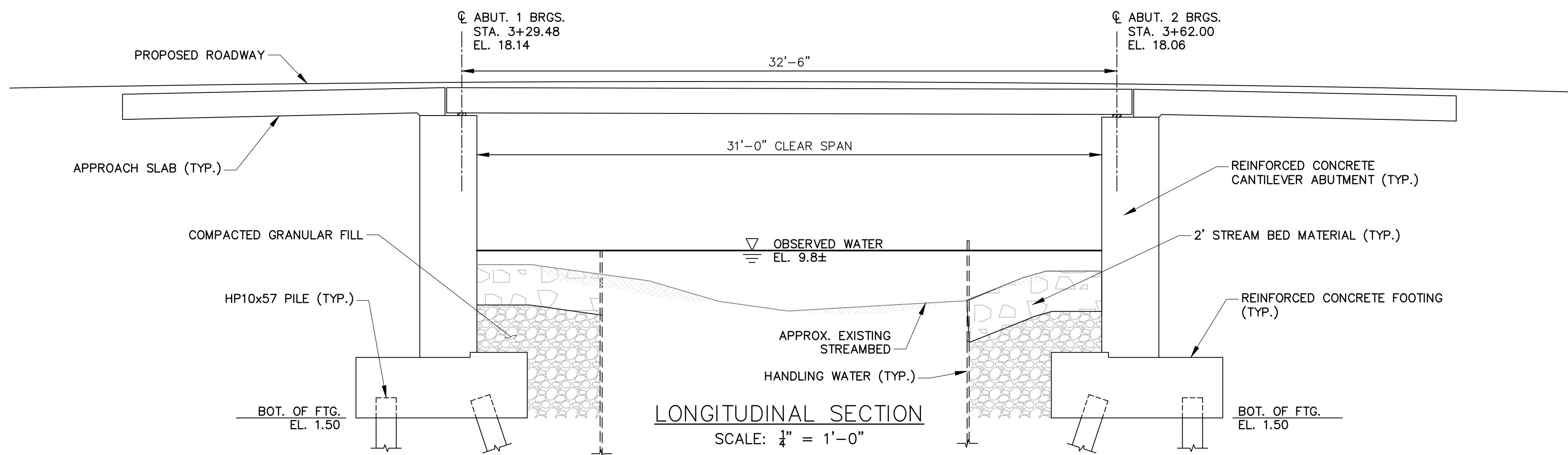


PROJECT TITLE: REPLACEMENT OF PLEASANT VALLEY ROAD BRIDGE OVER MENUNKETESUCK RIVER
CADD: P:\2016\16155 Pleasant Valley Bridge\104\0-Curren
PLOTTED: FEBRUARY 18, 2020

DRAWING TITLE: GENERAL NOTES	PROJECT NO.: 9027-4609
	DRAWING NO.: S-2
	SHEET NO.: 6



GENERAL PLAN
SCALE: 1/4" = 1'-0"



LONGITUDINAL SECTION
SCALE: 1/4" = 1'-0"

WORKING POINT COORDINATES		
W.P. #	NORTHING	EASTING
1	672,762.76	1,068,611.00
1A	672,777.60	1,068,604.52
1B	672,747.00	1,068,619.61
2	672,777.26	1,068,640.09
2A	672,791.31	1,068,632.32
2B	672,760.71	1,068,647.41
3	672,782.41	1,068,576.66

NOTE: FOR LOCATION OF WORKING POINT #3, SEE KEY PLAN.

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mwh/abj/01

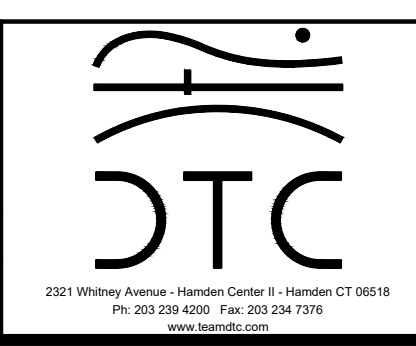
REV.	DATE	DESCRIPTION	SHT. NO.

DESIGNER: KJD
DRAFTER: CJW
CHECKED BY: RLO
DATE CHECKED: 02/17/2020

TOWN OF CLINTON

ENGINEER: DIVERSIFIED TECHNOLOGY CONSULTANTS

APPROVED BY: _____ DATE: _____



PROJECT TITLE:
REPLACEMENT OF PLEASANT VALLEY ROAD BRIDGE OVER MENUNKETESUCK RIVER

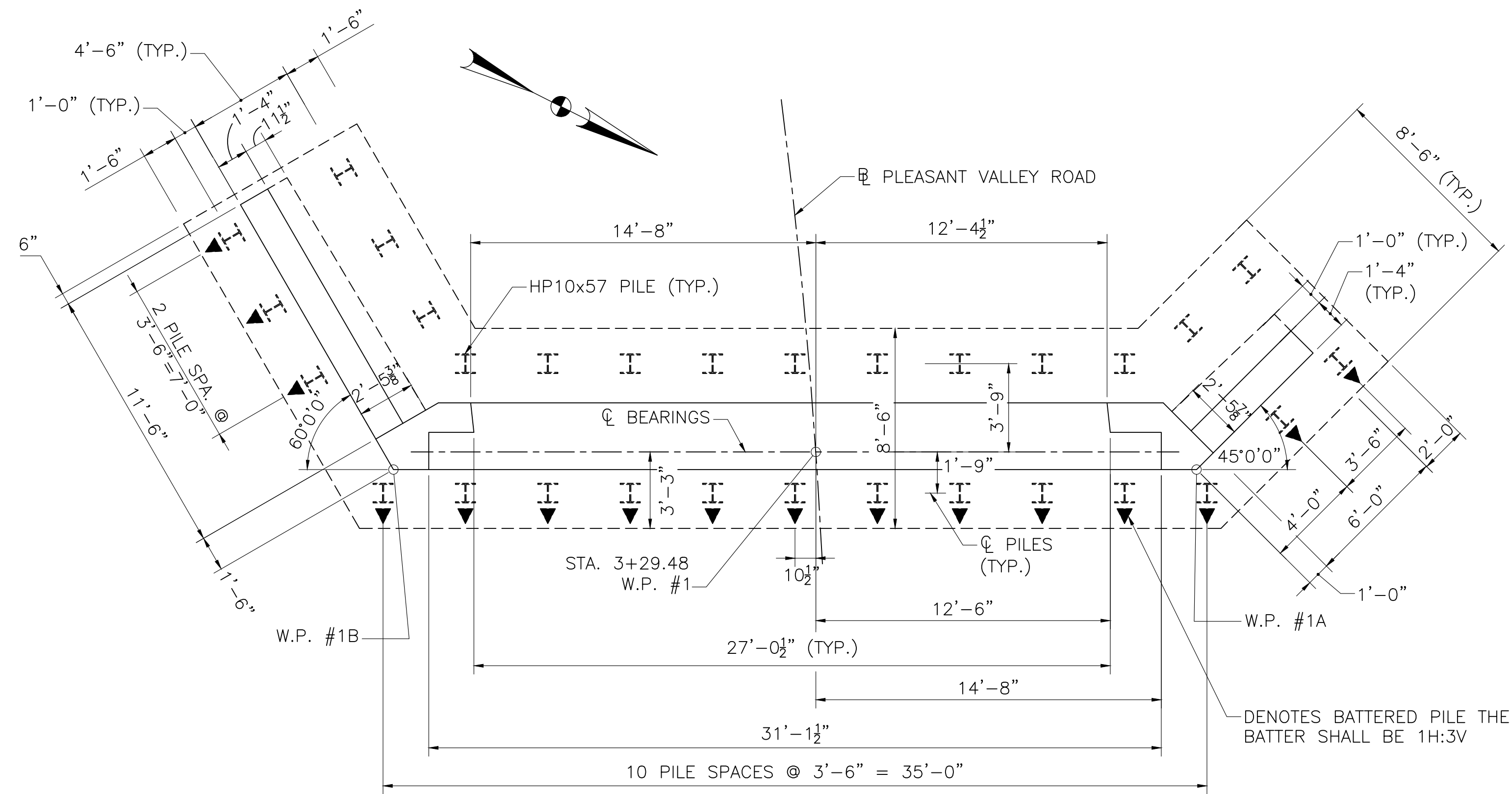
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PLOTTED: FEBRUARY 18, 2020

DRAWING TITLE:
PLAN AND LONGITUDINAL SECTION

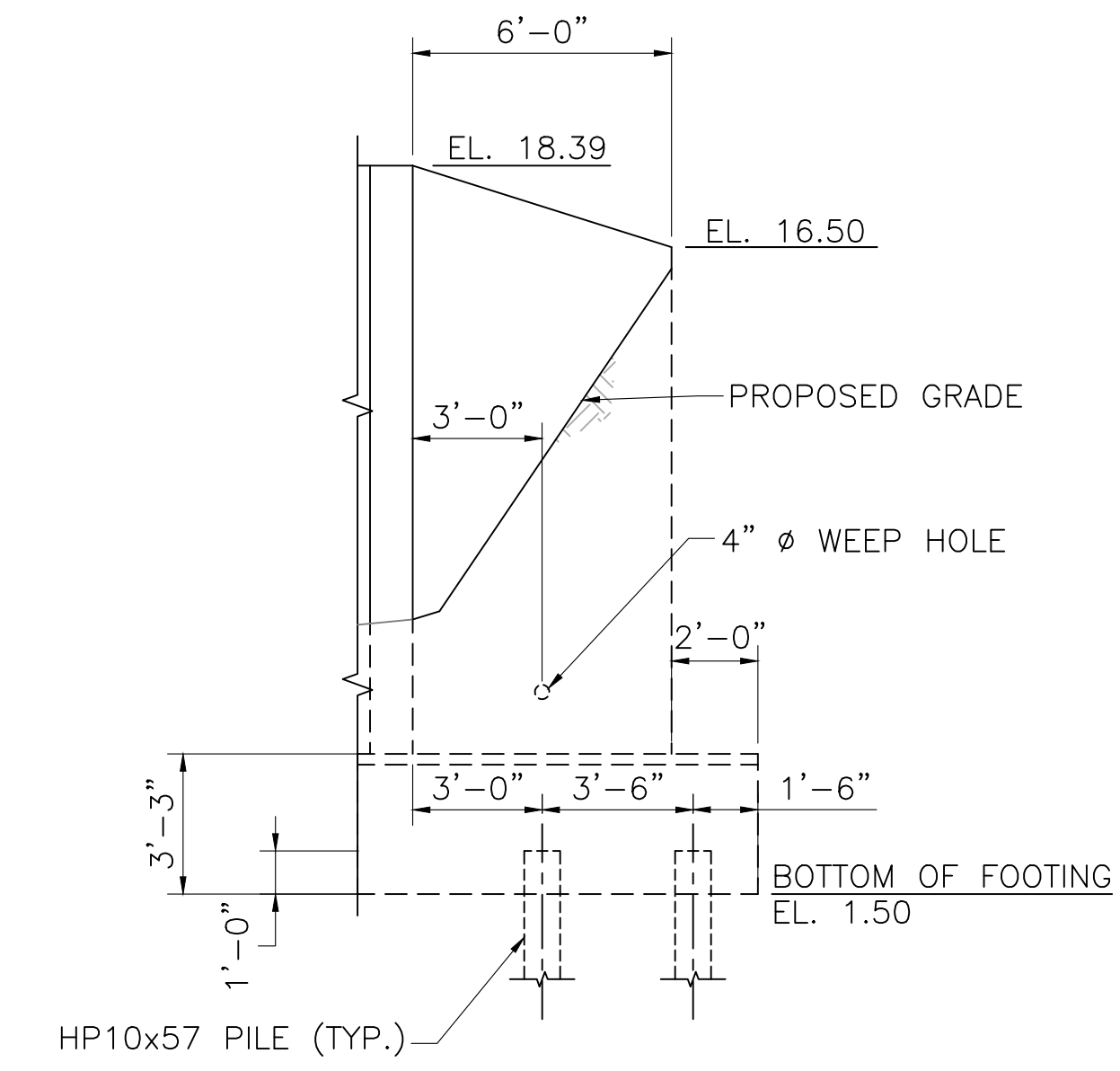
PROJECT NO.:
9027-4609

DRAWING NO.:
S-3

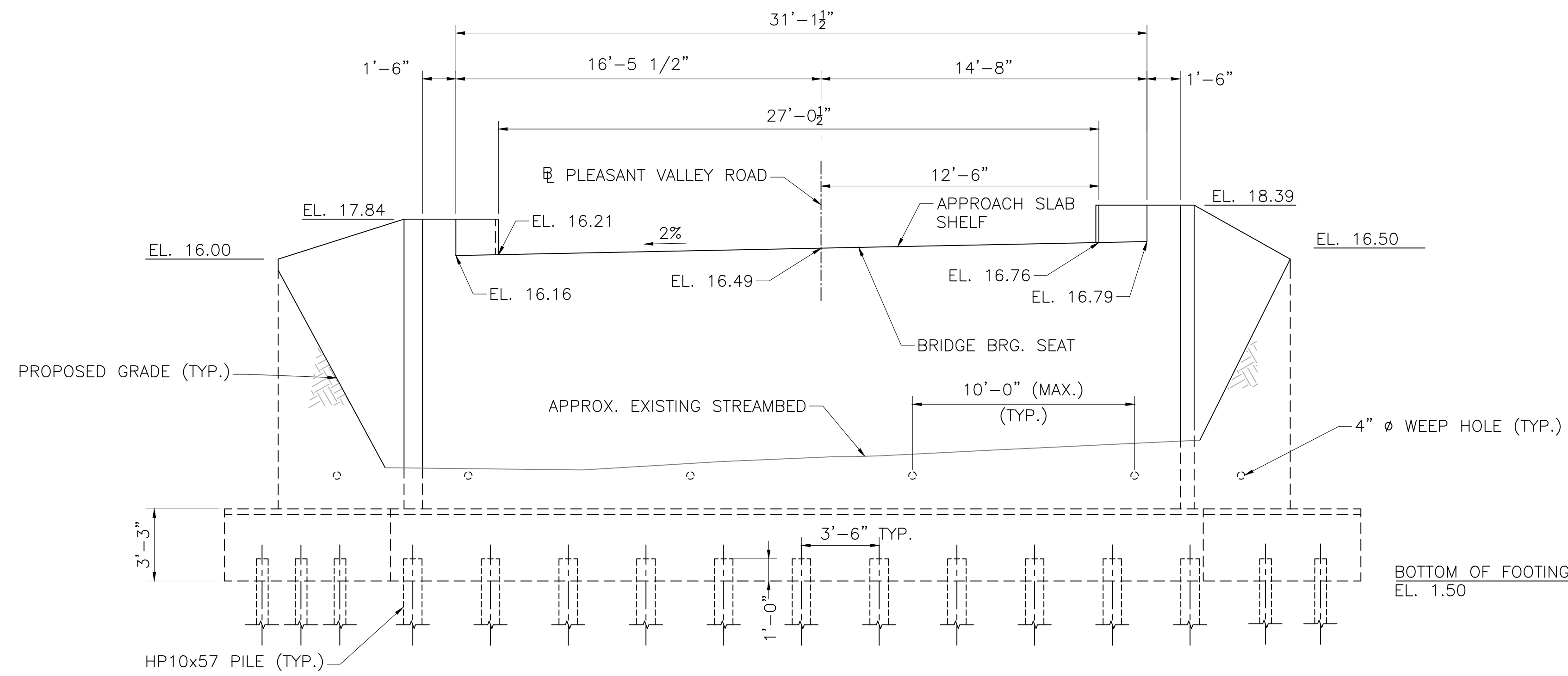
SHEET NO.:
7



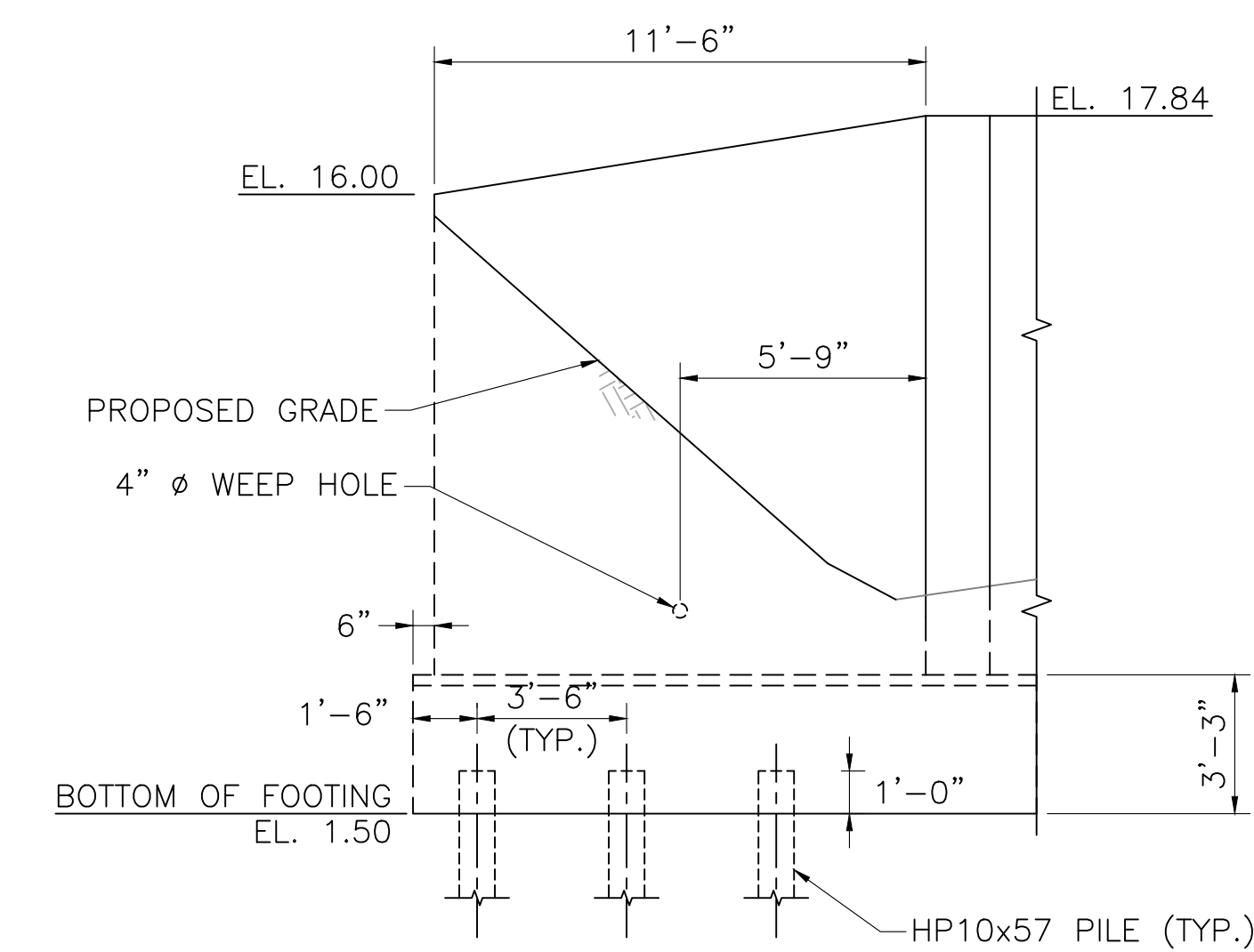
ABUTMENT 1 PLAN
SCALE: 1/4" = 1'-0"



DEVELOPED WINGWALL 1A ELEVATION
SCALE: 1/4" = 1'-0"



ABUTMENT 1 ELEVATION
SCALE: 1/4" = 1'-0"



DEVELOPED WINGWALL 1B ELEVATION
SCALE: 1/4" = 1'-0"

ABUTMENT #1	
PILE TYPE	QUANTITY
BATTERED PILES	16
VERTICAL PILES	14

PRIOR TO DRIVING THE PILES THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR REVIEW AND APPROVAL HIS METHOD AND SEQUENCE OF PILE INSTALLATION

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REV.	DATE	DESCRIPTION	SHT. NO.

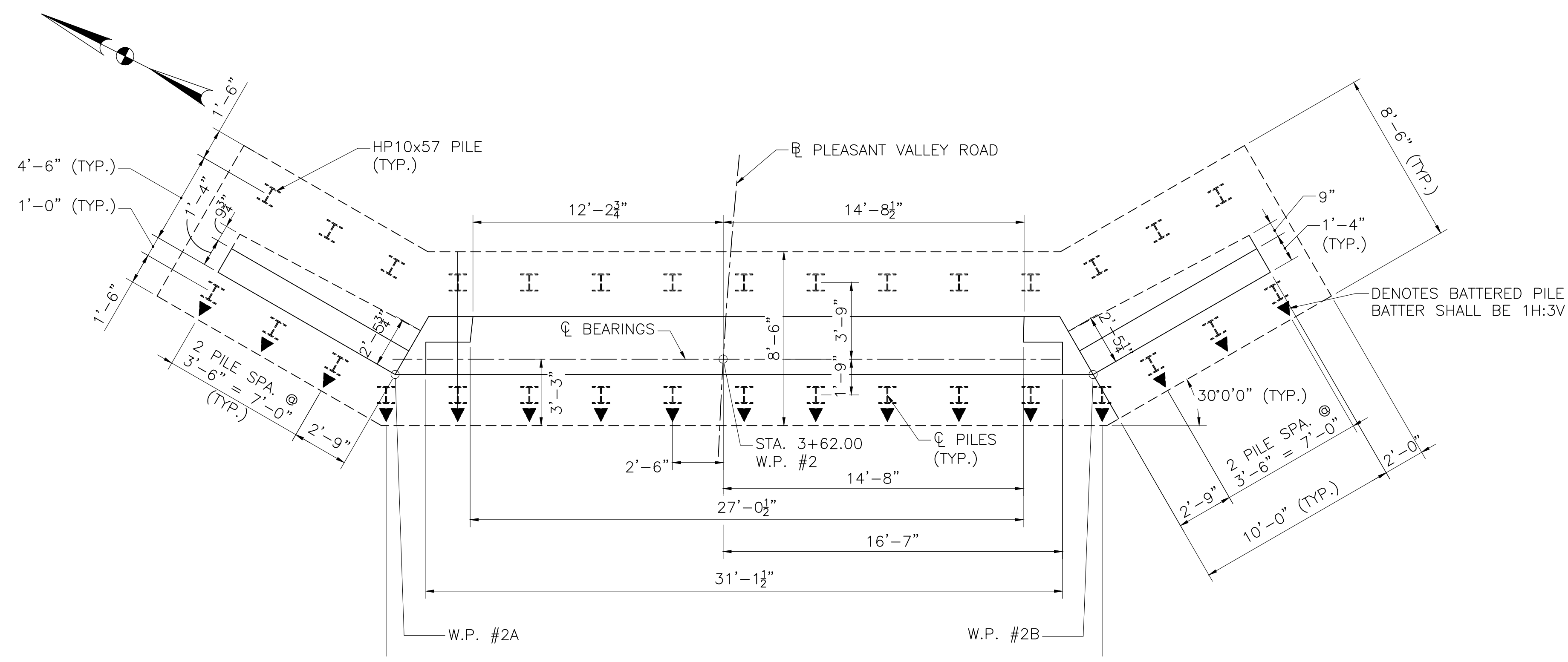
DESIGNER: KJD	TOWN OF CLINTON
DRAFTER: CJW	
CHECKED BY: RLO	
DATE CHECKED: 02/17/2020	

ENGINEER: DIVERSIFIED TECHNOLOGY CONSULTANTS	DTC
APPROVED BY: _____	
DATE: _____	

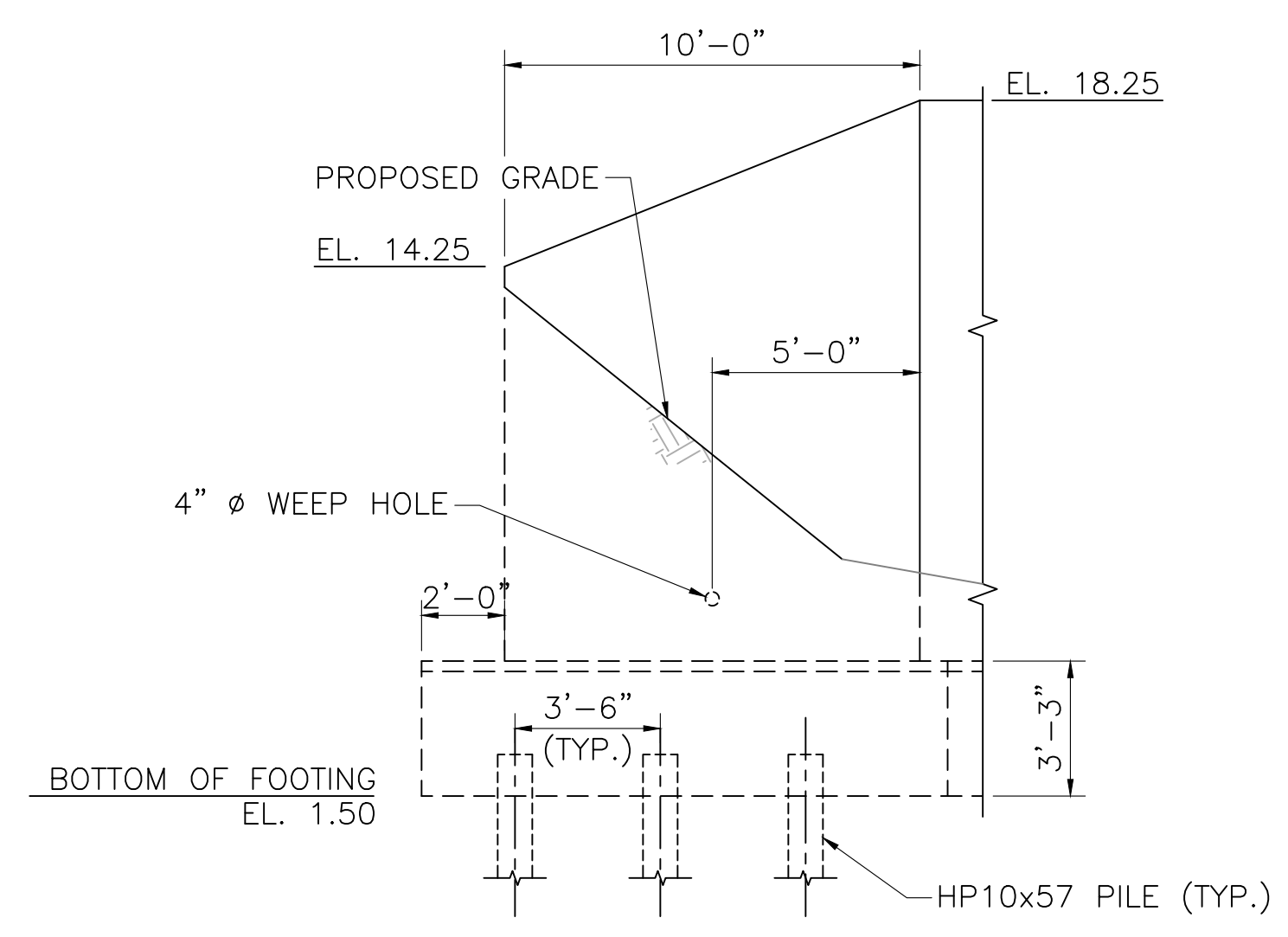
PROJECT TITLE: REPLACEMENT OF PLEASANT VALLEY ROAD BRIDGE OVER MENUNKETESUCK RIVER
CADD: P:\2016\16155 Pleasant Valley Bridge\104\0-Curren
PLOTTED: FEBRUARY 18, 2020

DRAWING TITLE: ABUTMENT 1 PLAN & ELEVATION
--

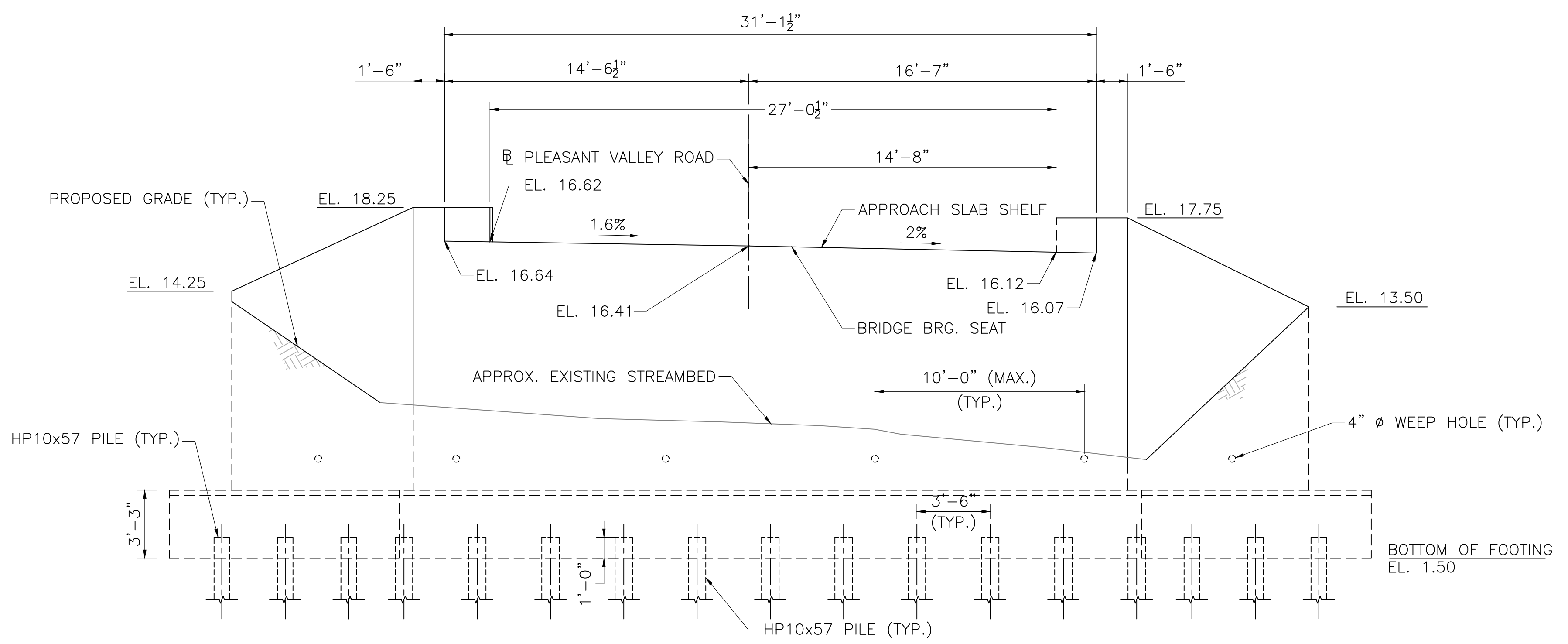
PROJECT NO.: 9027-4609
DRAWING NO.: S-4
SHEET NO.: 8



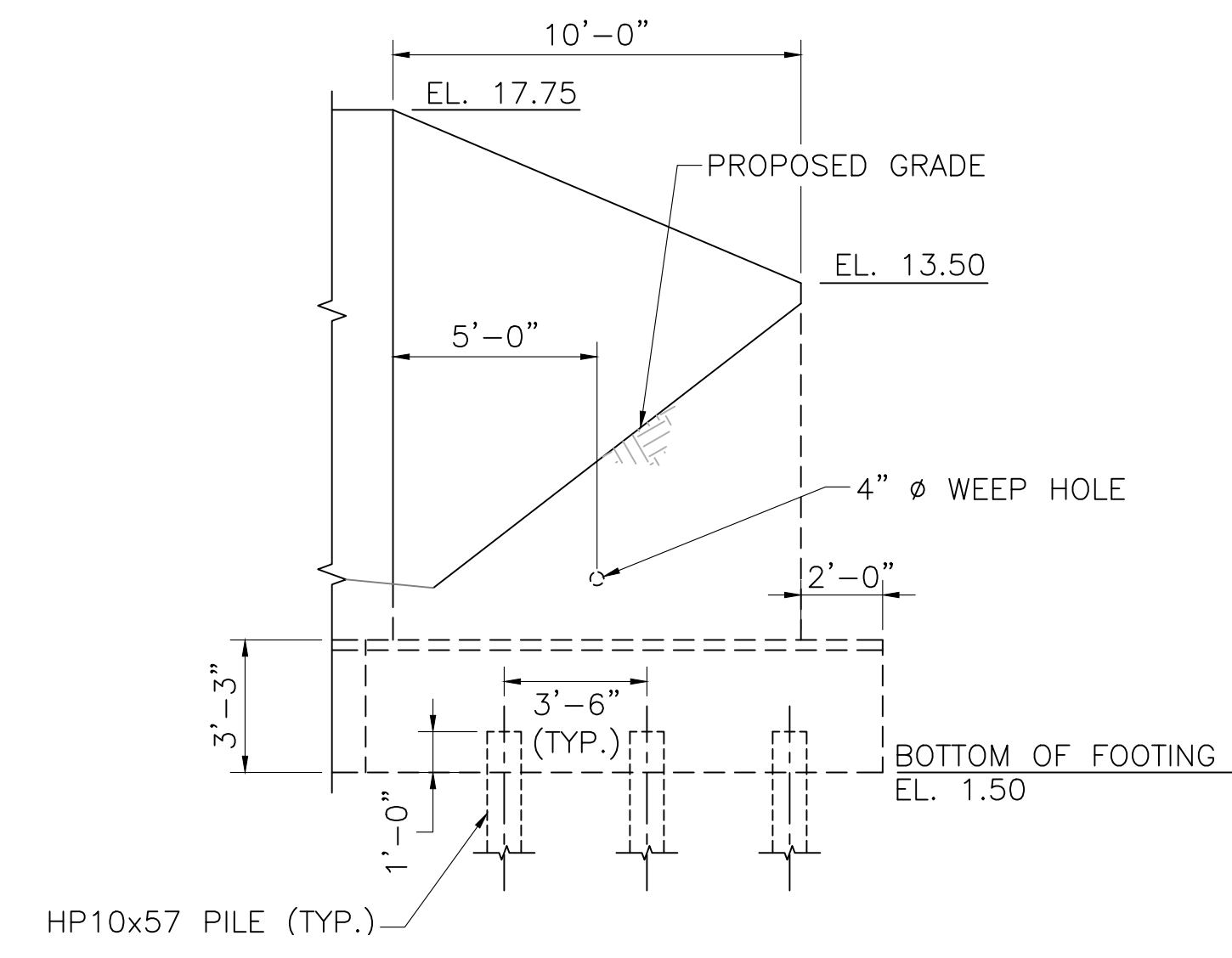
ABUTMENT 2 PLAN
SCALE: 1/4" = 1'-0"



DEVELOPED WINGWALL 2A ELEVATION
SCALE: 1/4" = 1'-0"



ABUTMENT 2 ELEVATION
SCALE: 1/4" = 1'-0"



DEVELOPED WINGWALL 2B ELEVATION
SCALE: 1/4" = 1'-0"

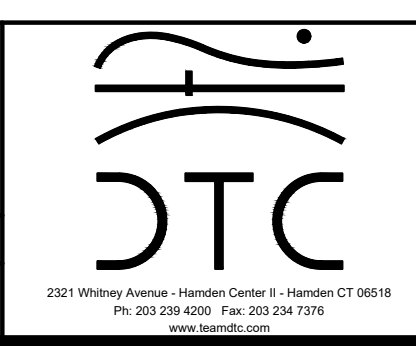
ABUTMENT #2	
PILE TYPE	QUANTITY
BATTERED PILES	17
VERTICAL PILES	15

PRIOR TO DRIVING THE PILES THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR REVIEW AND APPROVAL HIS METHOD AND SEQUENCE OF PILE INSTALLATION

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REV.	DATE	DESCRIPTION	SHT. NO.

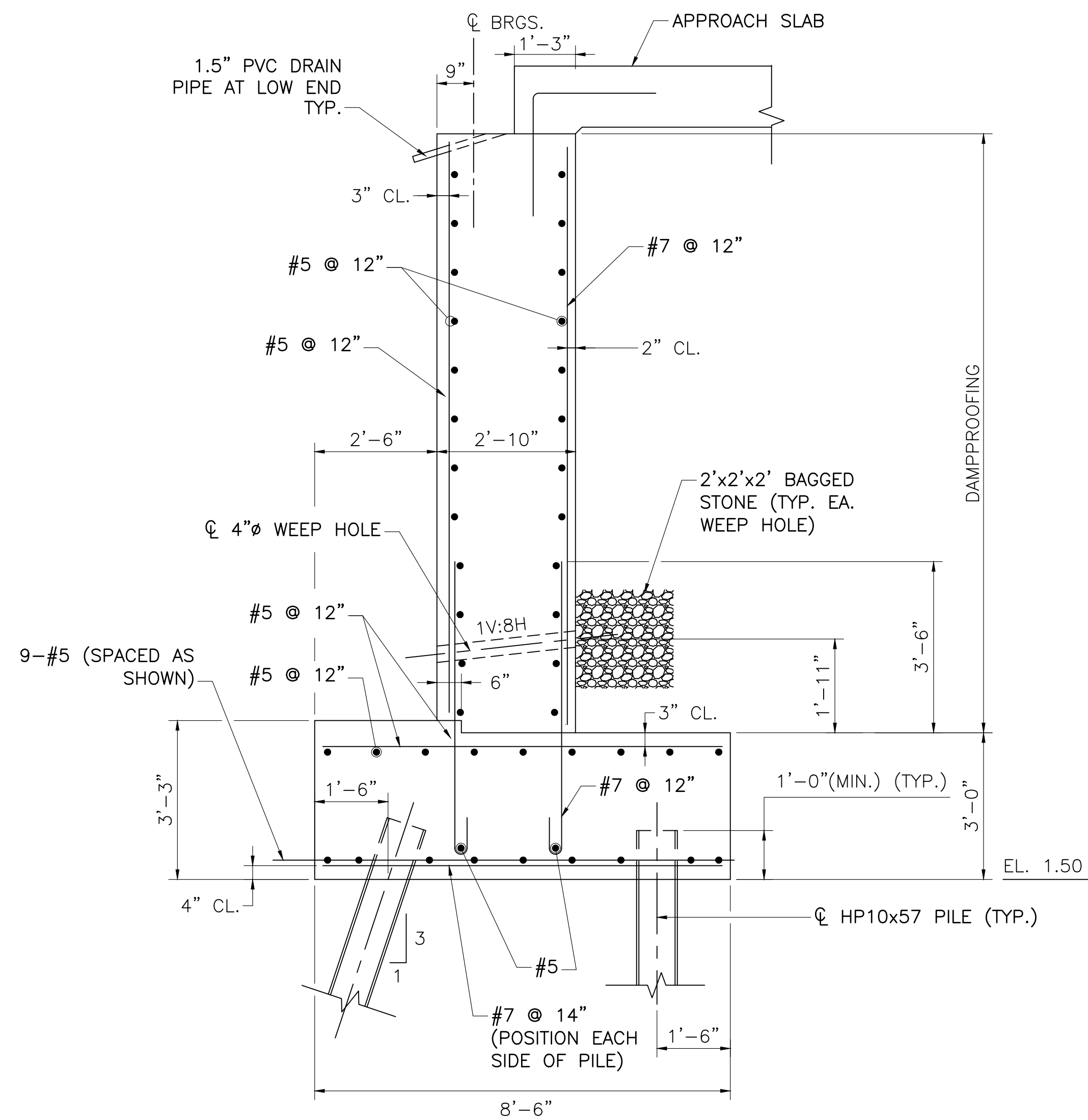
DESIGNER: KJD	TOWN OF CLINTON
DRAFTER: CJW	
CHECKED BY: RLO	ENGINEER: DIVERSIFIED TECHNOLOGY CONSULTANTS
DATE CHECKED: 02/17/2020	APPROVED BY: _____ DATE: _____



PROJECT TITLE: REPLACEMENT OF PLEASANT VALLEY ROAD BRIDGE OVER MENUNKETESUCK RIVER
CADD: P:\2016\16155 Pleasant Valley Bridge\104\0-Current
PLOTTED: FEBRUARY 18, 2020

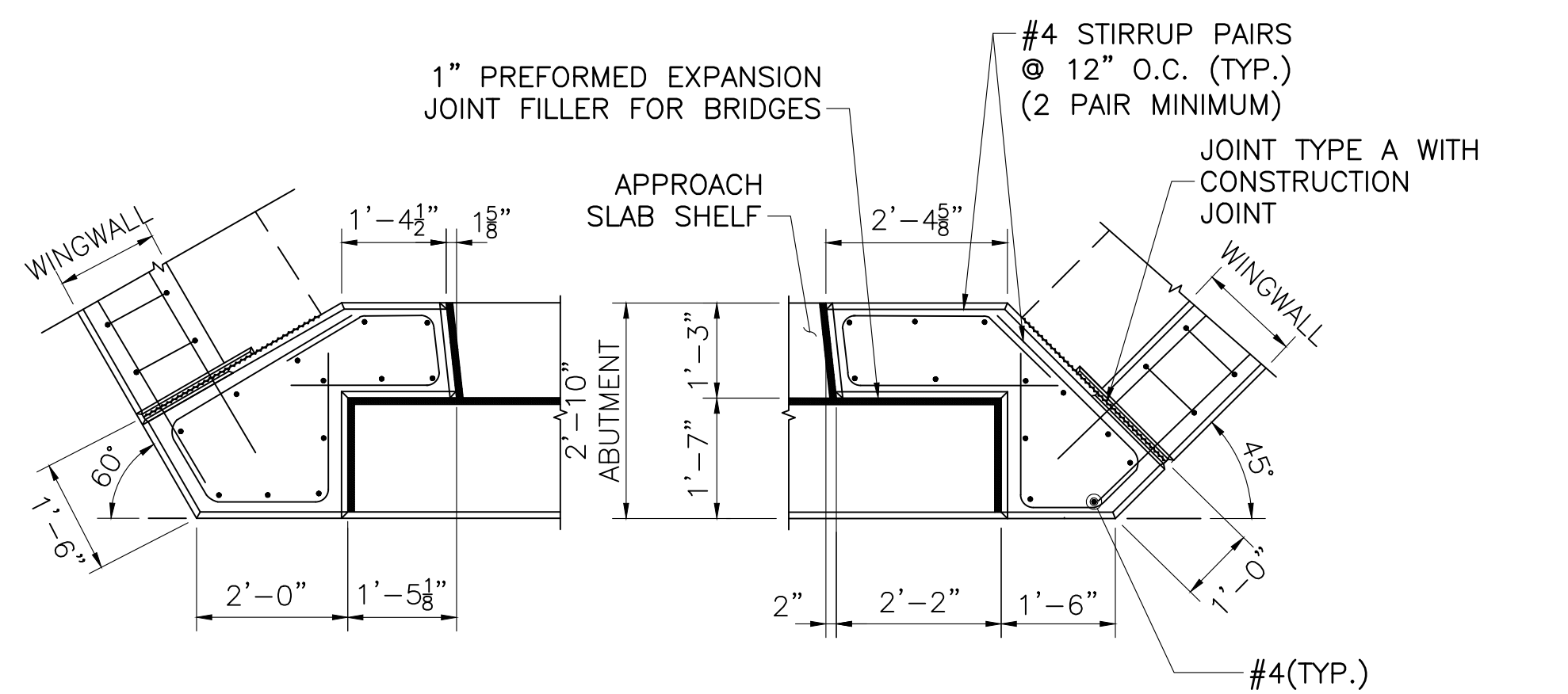
DRAWING TITLE: ABUTMENT 2 PLAN & ELEVATION
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PROJECT NO.: 9027-4609
DRAWING NO.: S-5
SHEET NO.: 9



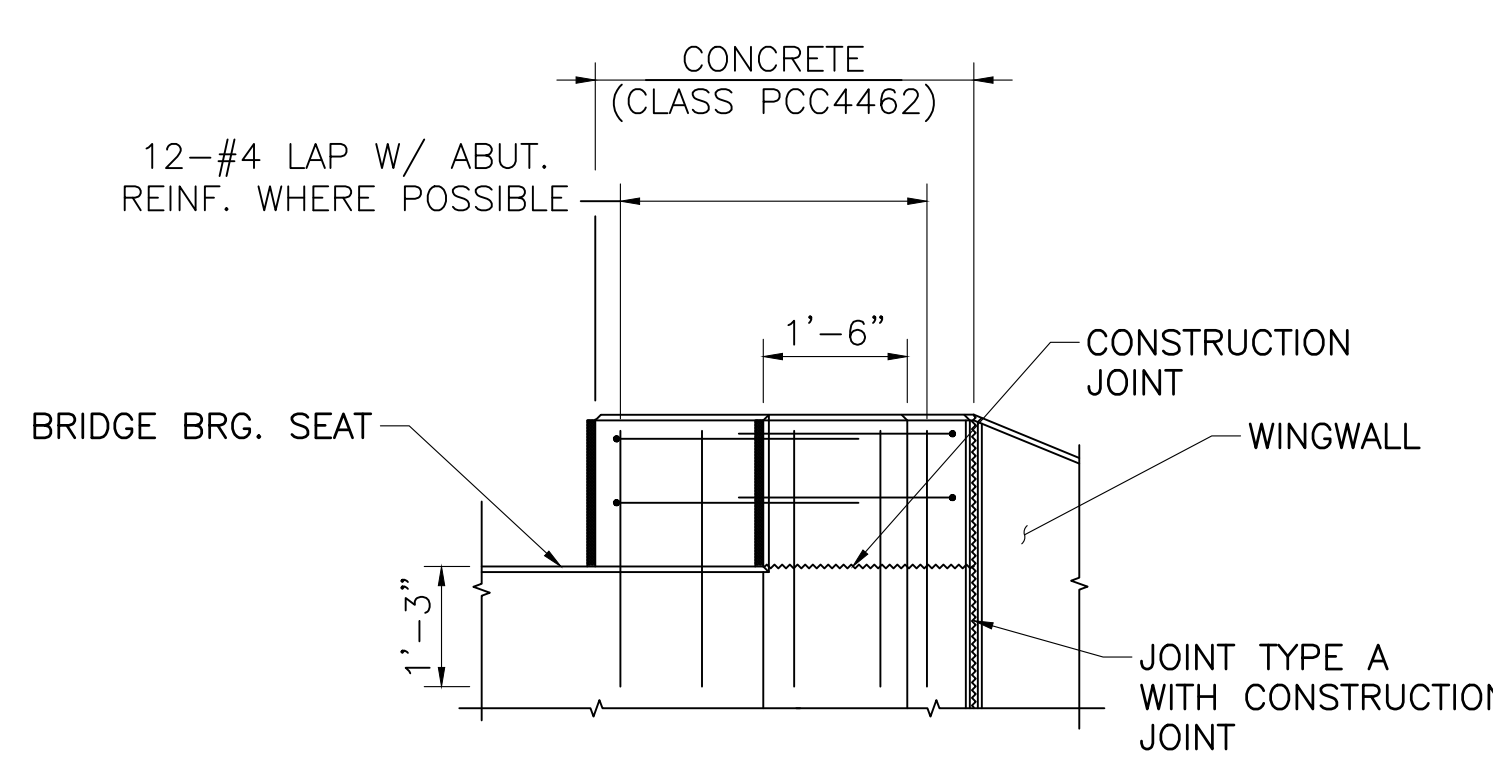
ABUTMENT SECTION
SCALE: 1/2" = 1'-0"

GEOTECHNICAL NOTE:
STRENGTH PILE CAPACITY = 113 K/PILE



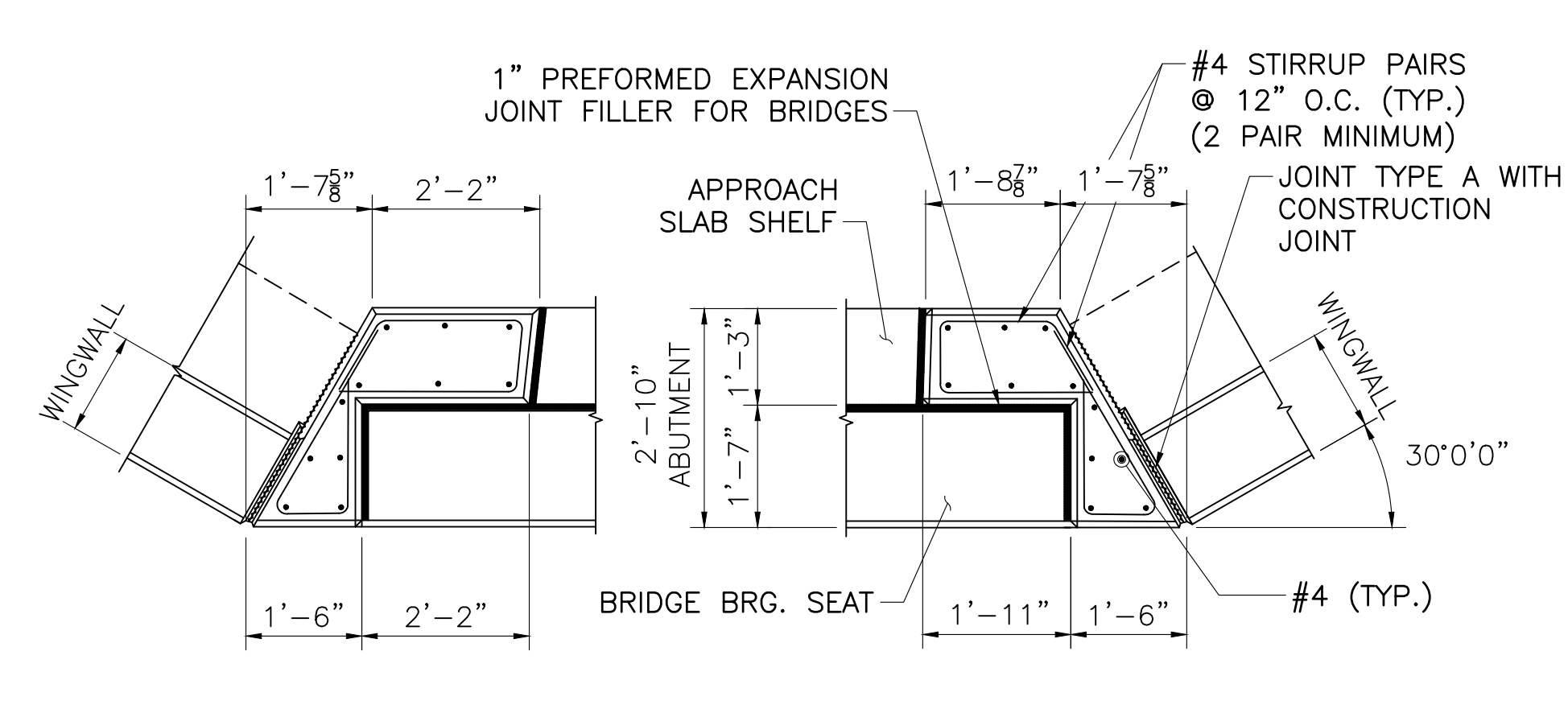
KEEPER BLOCK 1A

PLAN VIEWS



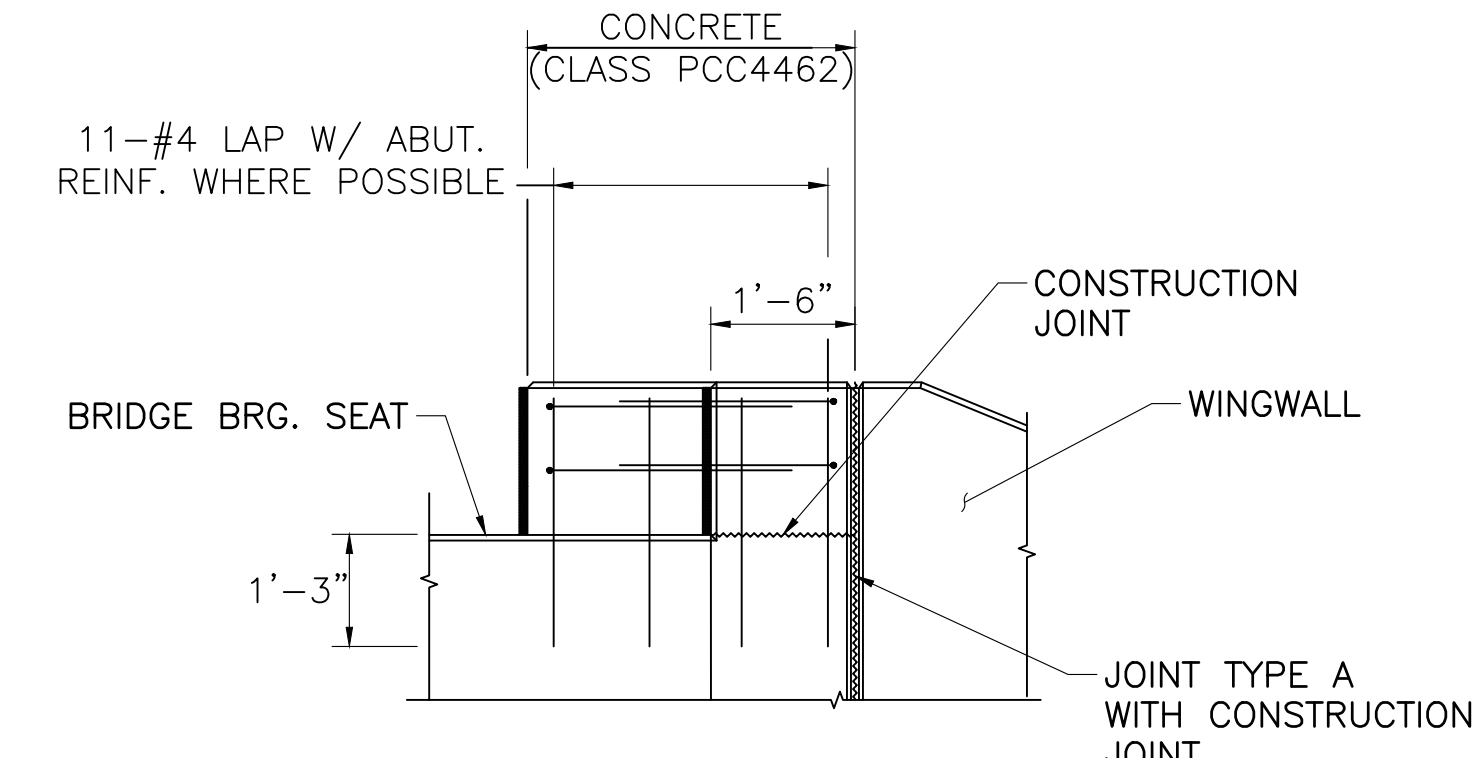
KEEPER BLOCK 1A ELEVATION

ABUTMENT 1



KEEPER BLOCK 2A

PLAN VIEWS



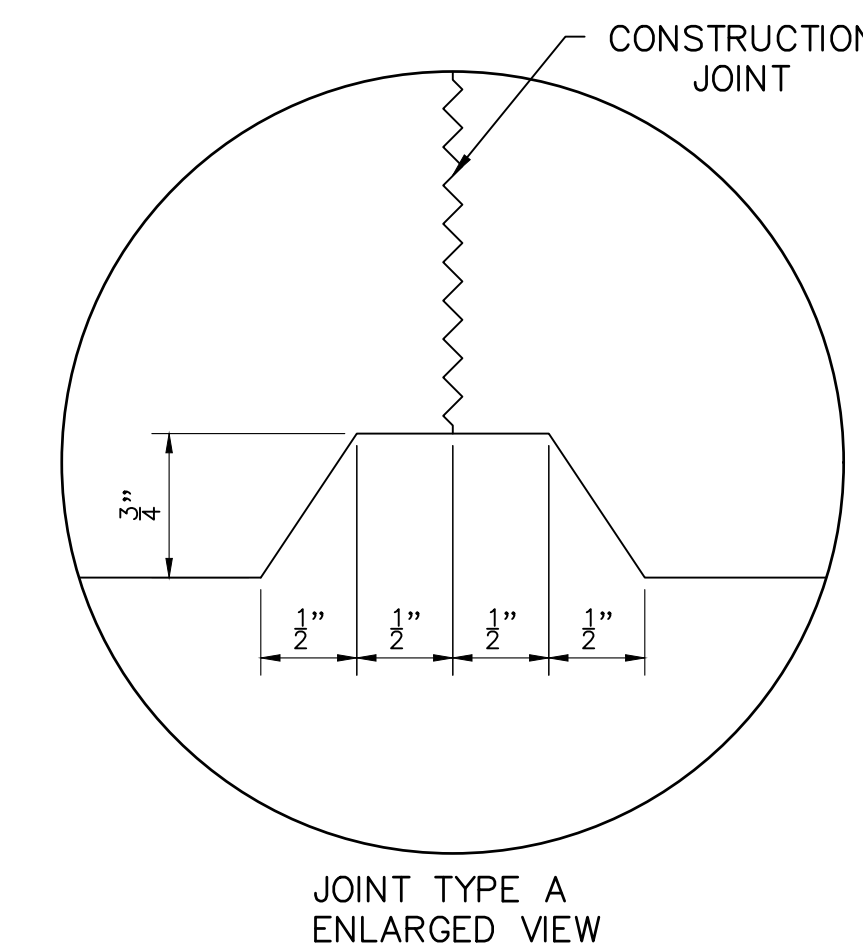
KEEPER BLOCK 2B ELEVATION

ABUTMENT 2

KEEPER BLOCK DETAILS
SCALE: 1/2" = 1'-0"

NOTE:

BRIDGE BEARING SEAT TO HAVE SMOOTH TROWEL FINISH FOLLOWING THE CROSS SLOPE OF THE ROADWAY.
APPROACH SLAB AND BRIDGE DECK SLABS NOT SHOWN.



JOINT TYPE A ENLARGED VIEW

File: 07_2020 - 0370m
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REV.	DATE	DESCRIPTION	SHT. NO.

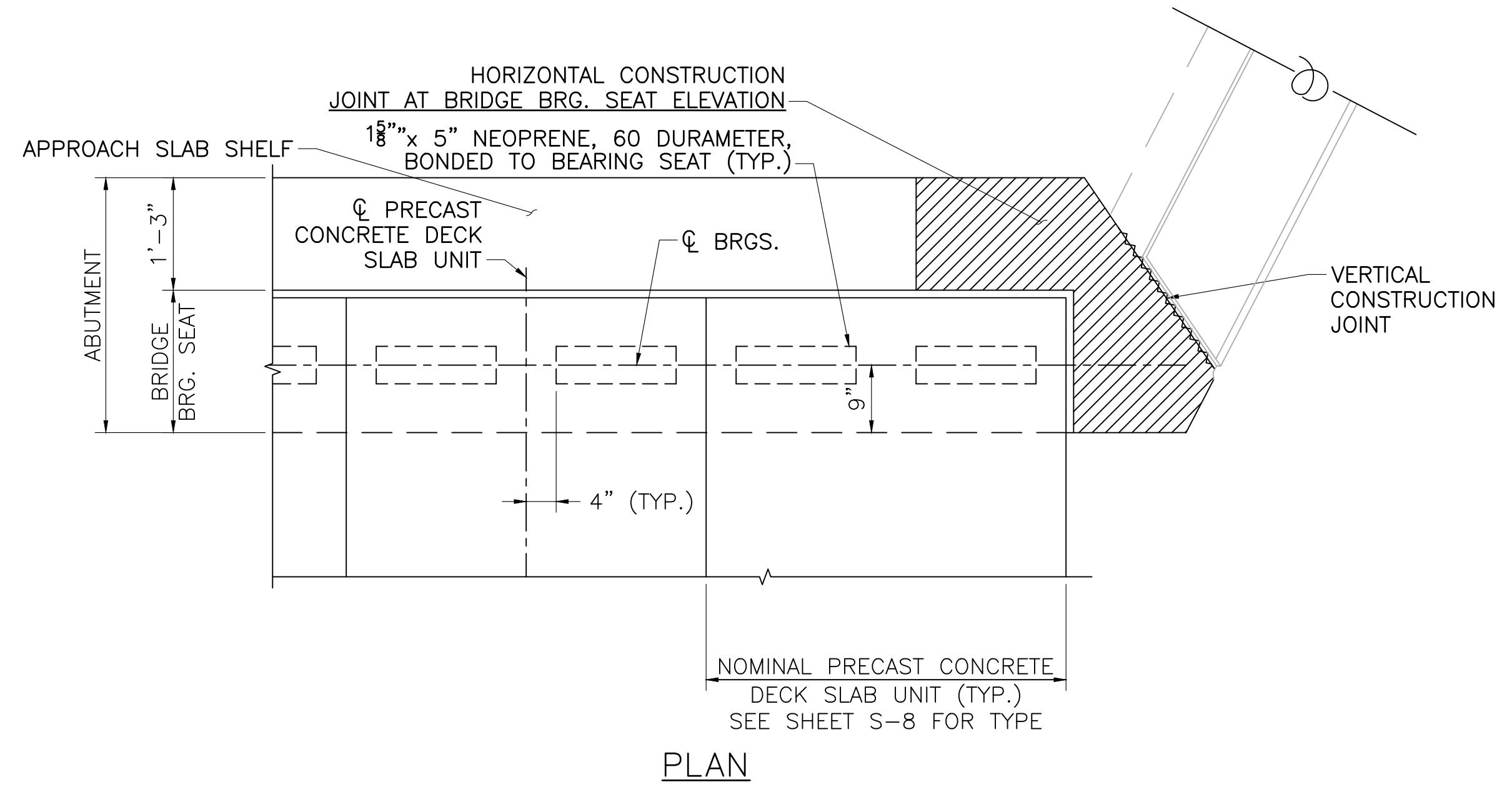
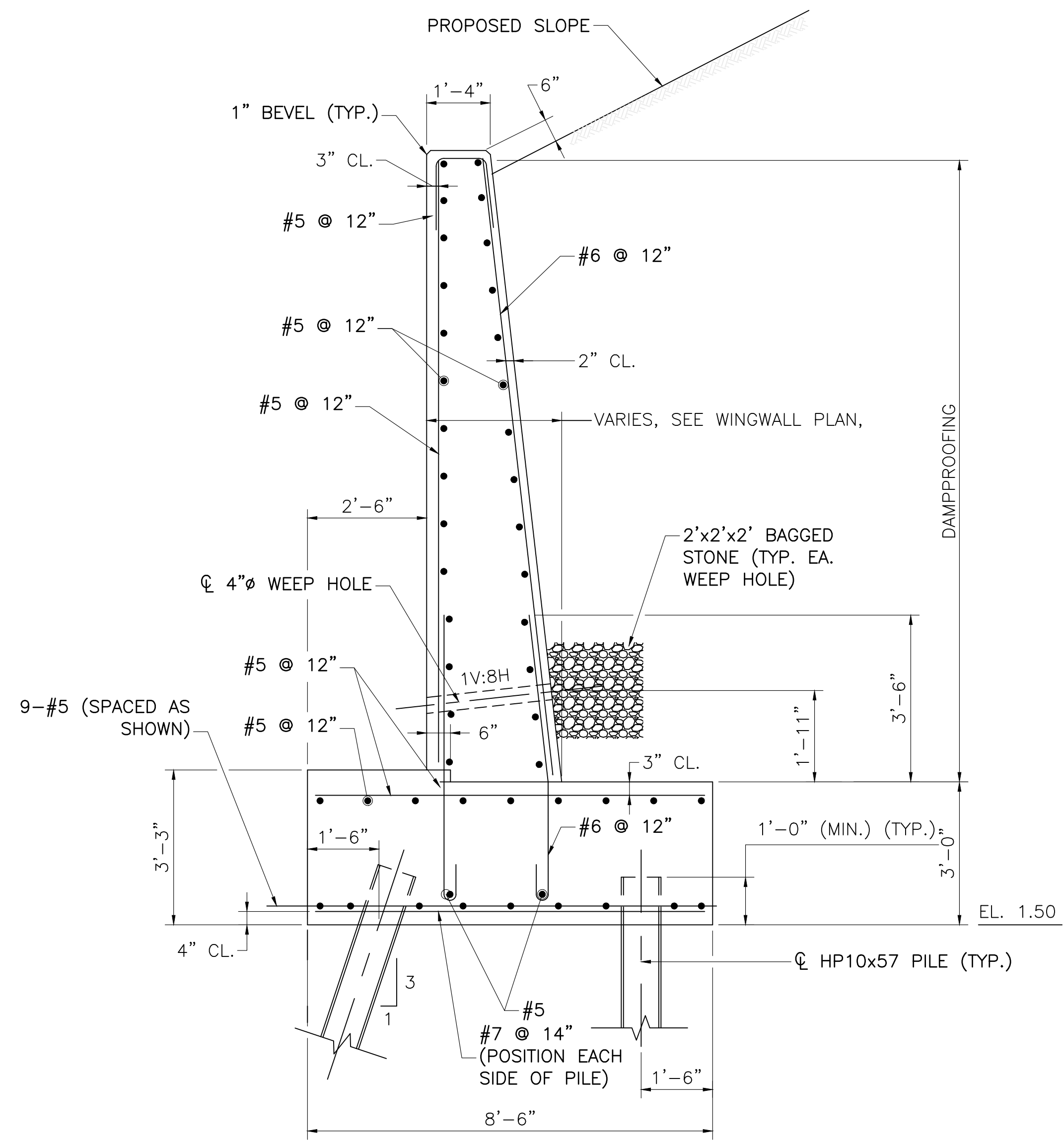
DESIGNER: KJD	TOWN OF CLINTON
DRAFTER: CJW	
CHECKED BY: RLO	
DATE CHECKED: 02/17/2020	

ENGINEER: DIVERSIFIED TECHNOLOGY CONSULTANTS	DTC
APPROVED BY: _____	
DATE: _____	

PROJECT TITLE: REPLACEMENT OF PLEASANT VALLEY ROAD BRIDGE OVER MENUNKETESUCK RIVER
CADD: P:\2016\16155 Pleasant Valley Bridge\104\0-Curren
PLOTTED: FEBRUARY 18, 2020

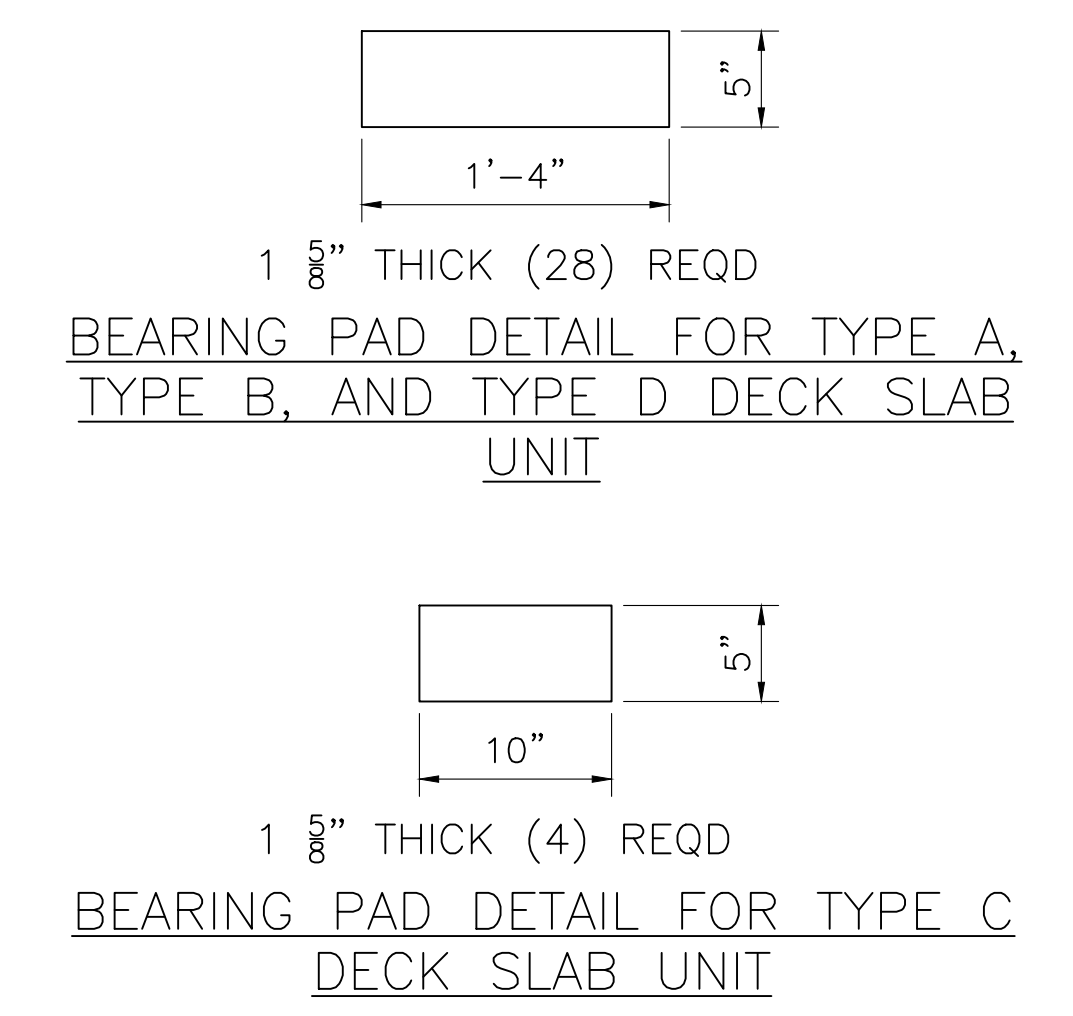
DRAWING TITLE: ABUTMENT SECTION & DETAILS

PROJECT NO.: 9027-4609
DRAWING NO.: S-6
SHEET NO.: 10



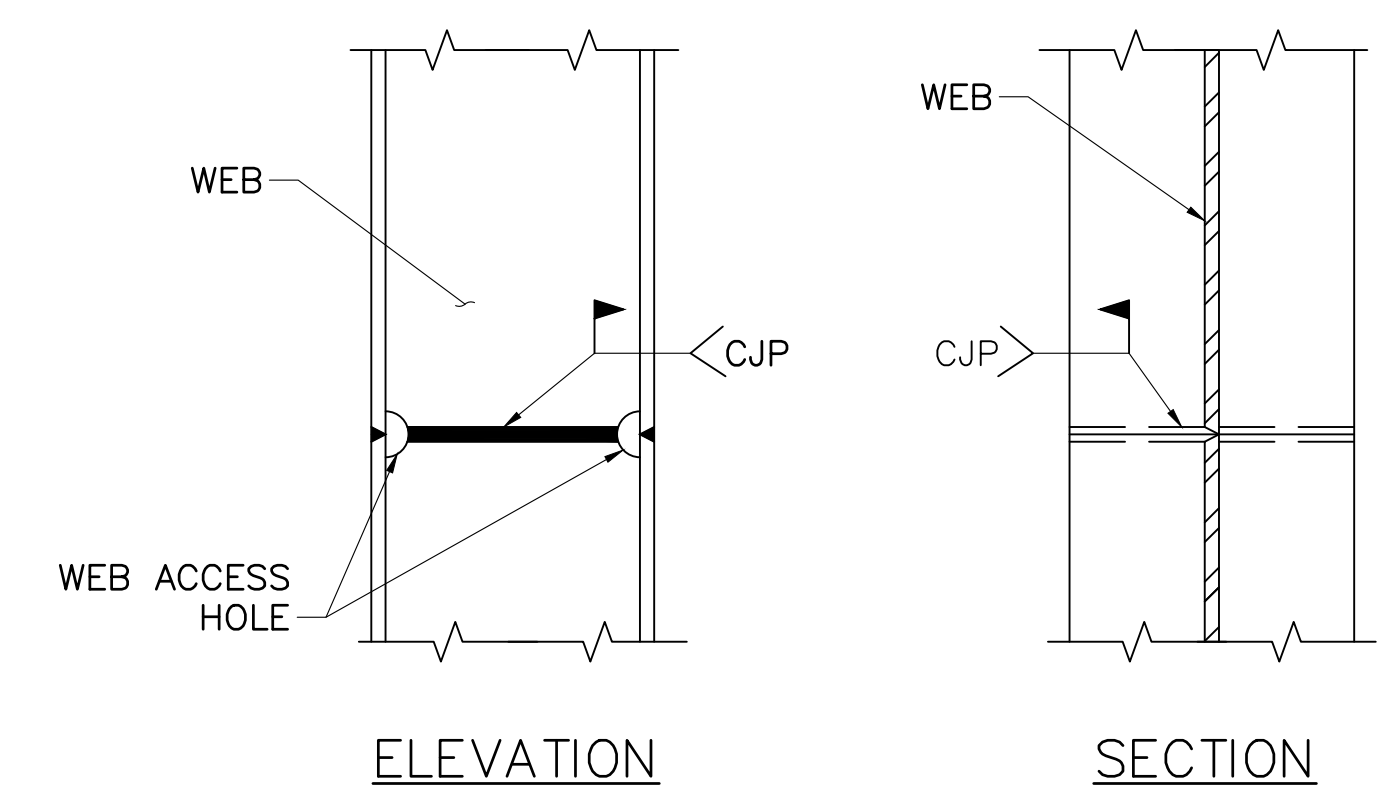
NOTE:
KEEPER BLOCK AND WINGWALL SHOWN GRAY FOR CLARITY.

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

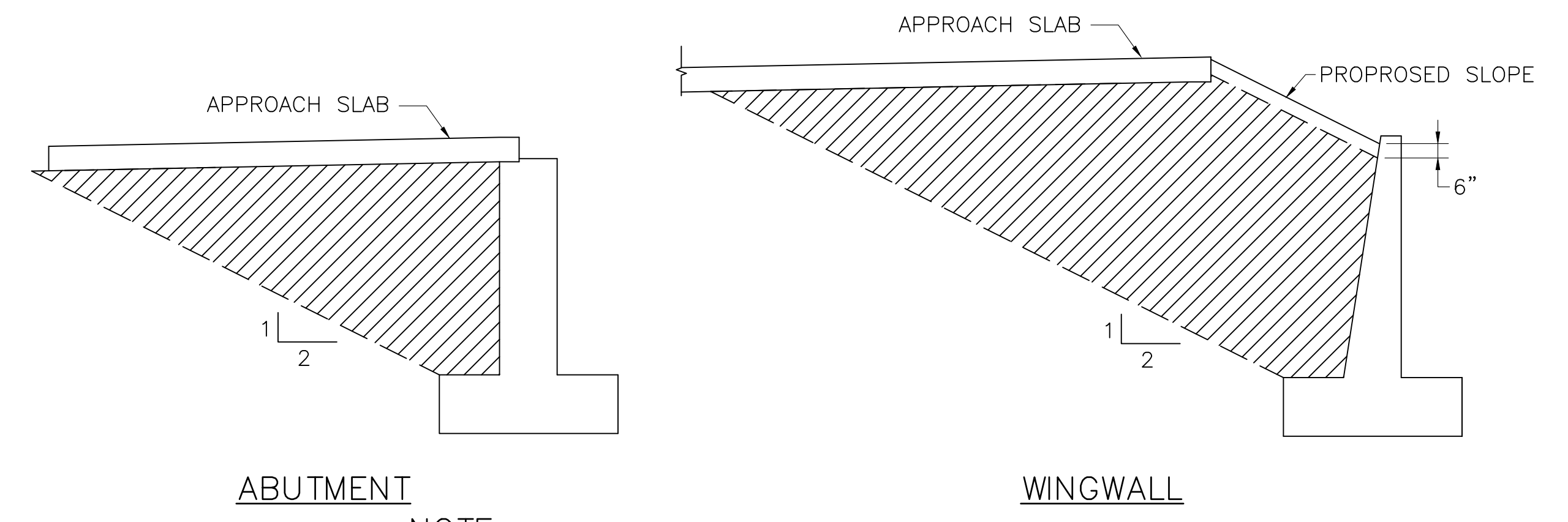


GEOTECHNICAL NOTE:
STRENGTH PILE CAPACITY = 113 K/PILE

- NOTES:
- ALL WELDS SHALL BE COMPLETE PENETRATION AND SHALL CONFORM TO THE ANSI/AASHTO/AWS BRIDGE WELDING CODE, D1.5.
 - WELDING PROCEDURE SPECIFICATIONS MUST BE APPROVED BY THE ENGINEER PRIOR TO WELDING.
 - WHENEVER POSSIBLE, ALL PILES SHALL BE SPLICED ON THE GROUND IN THE FLAT POSITION.
 - WEB SHALL BE COPED TO ALLOW FOR COMPLETE PENETRATION WELDING OF FLANGES.
 - THE CONTRACTOR MAY UTILIZE WELDED MECHANICAL PILE SPlicERS AT NO ADDITIONAL COMPENSATION.
 - SPLICE DETAILS SHOWN AS A CONVENIENCE TO THE CONTRACTOR. PILE SPLICE COST INCIDENTAL.



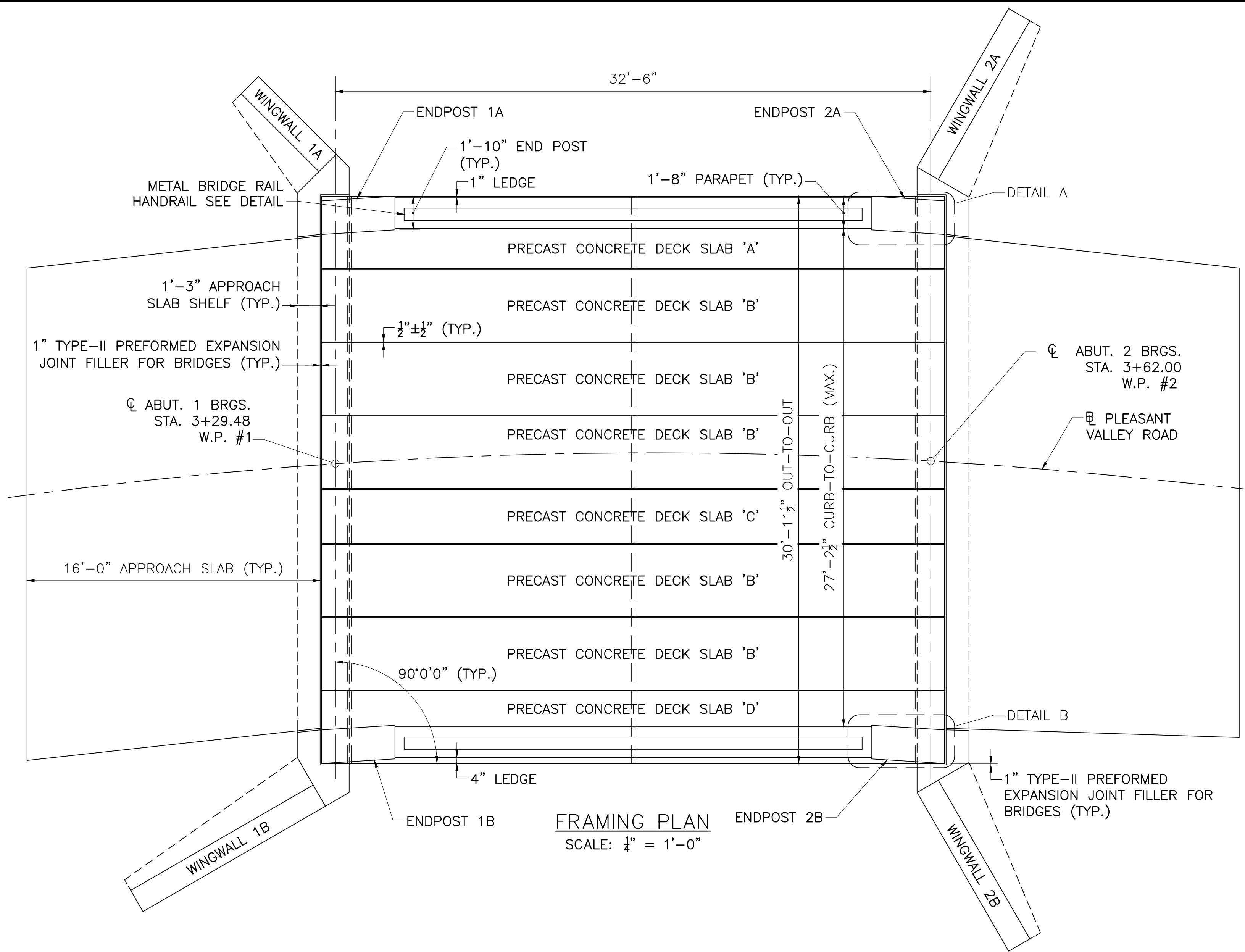
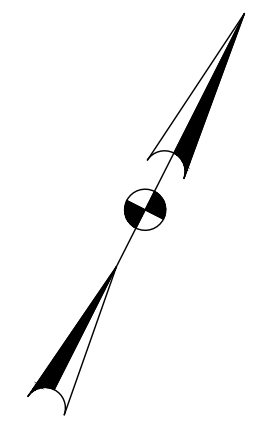
PILE SPLICE DETAILS
NOT TO SCALE



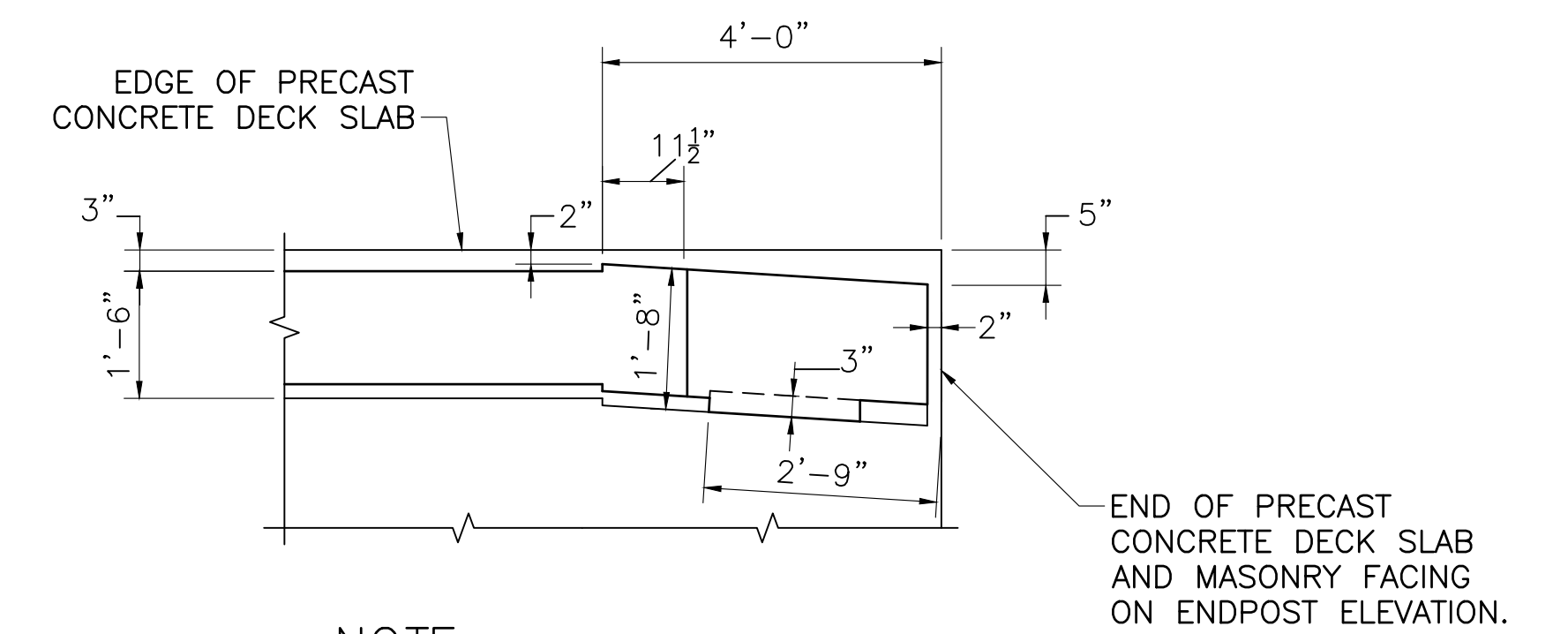
NOTE:
HATCHED AREA INDICATES LIMITS OF PERVIOUS STRUCTURE BACKFILL.
LIMITS OF PERVIOUS STRUCTURE BACKFILL
NOT TO SCALE

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DESIGNER: KJD DRAFTER: CJW CHECKED BY: RLO DATE CHECKED: 02/17/2020		TOWN OF CLINTON ENGINEER: DIVERSIFIED TECHNOLOGY CONSULTANTS APPROVED BY: _____ DATE: _____		PROJECT TITLE: REPLACEMENT OF PLEASANT VALLEY ROAD BRIDGE OVER MENUNKETESUCK RIVER CADD: P:\2016\16155 Pleasant Valley Bridge\104\0-CURRENT PLOTTED: FEBRUARY 18, 2020		DRAWING TITLE: WINGWALL SECTION & SUBSTRUCTURE DETAILS		PROJECT NO.: 9027-4609 DRAWING NO.: S-7 SHEET NO.: 11	
REV.	DATE	DESCRIPTION	SHT. NO.						



FRAMING PLAN
SCALE: $\frac{1}{4}'' = 1'-0''$

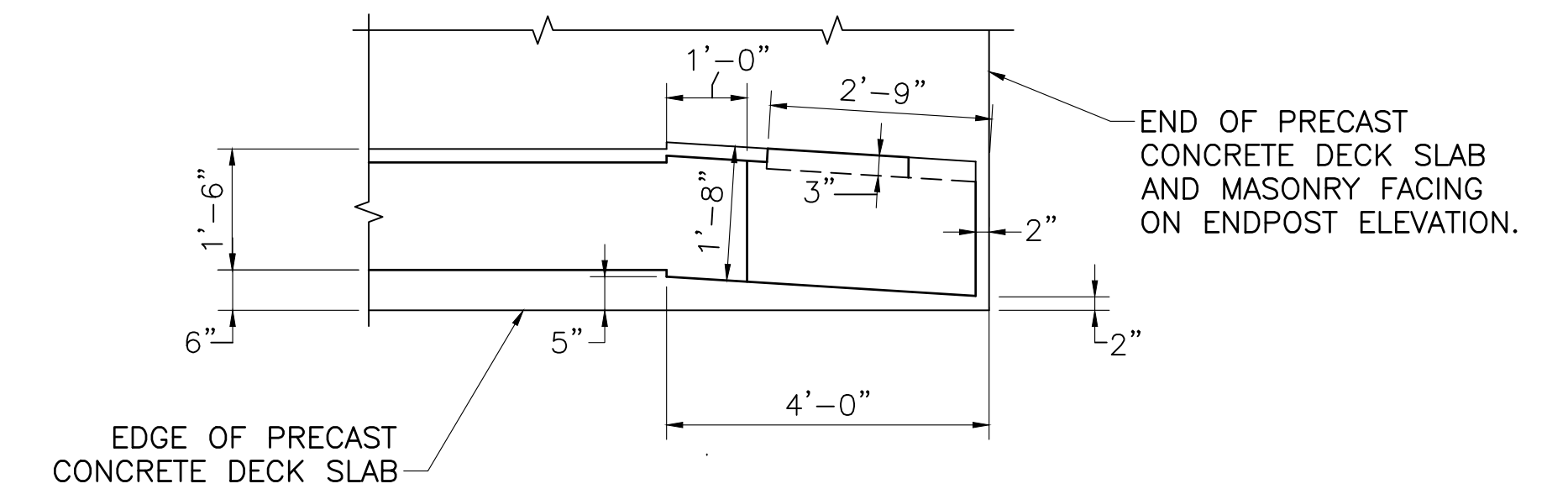


NOTE:

- MASONRY FACING AND GRANITE CAP NOT SHOWN FOR CLARITY. (SEE SHEET 17 FOR ADDITIONAL INFORMATION)
- DETAIL IS BIRDS EYE VIEW OF TOP OF CONCRETE
- BEVELS AT CONCRETE EDGES NOT SHOWN

DETAIL A

(ENDPOST 2A SHOWN, ENDPOST 1A SIMILAR OPPOSITE HAND)
SCALE: $\frac{1}{2}'' = 1'-0''$

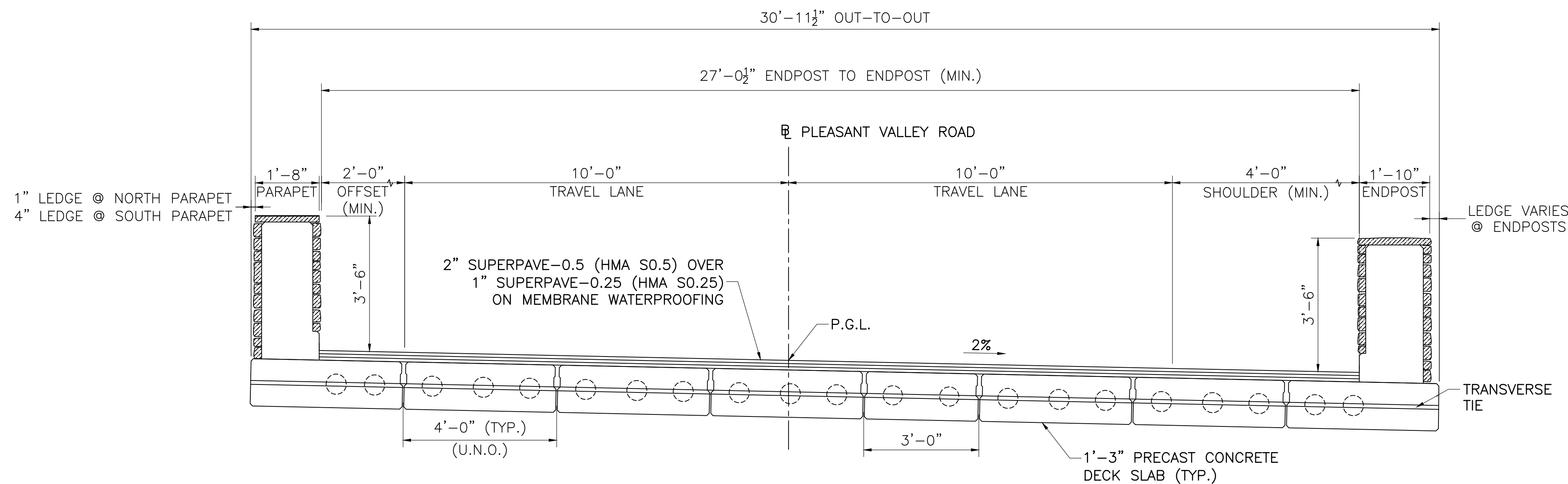


NOTE:

- MASONRY FACING AND GRANITE CAP NOT SHOWN FOR CLARITY. (SEE SHEET 17 FOR ADDITIONAL INFORMATION)
- DETAIL IS BIRDS EYE VIEW OF TOP OF CONCRETE
- BEVELS AT CONCRETE EDGES NOT SHOWN

DETAIL B

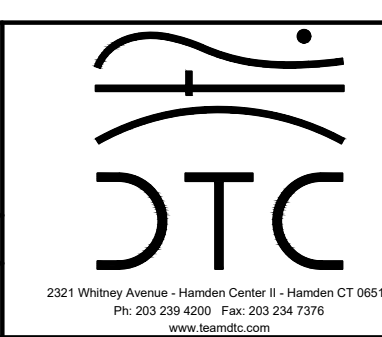
(ENDPOST 2B SHOWN, ENDPOST 1B SIMILAR OPPOSITE HAND)
SCALE: $\frac{1}{2}'' = 1'-0''$



SUPERSTRUCTURE SECTION
SCALE: $\frac{1}{2}'' = 1'-0''$

REV.	DATE	DESCRIPTION	SHT. NO.

DESIGNER: KJD	TOWN OF CLINTON
DRAFTER: CJW	
CHECKED BY: RLO	ENGINEER: DIVERSIFIED TECHNOLOGY CONSULTANTS
DATE CHECKED: 02/17/2020	APPROVED BY: _____ DATE: _____

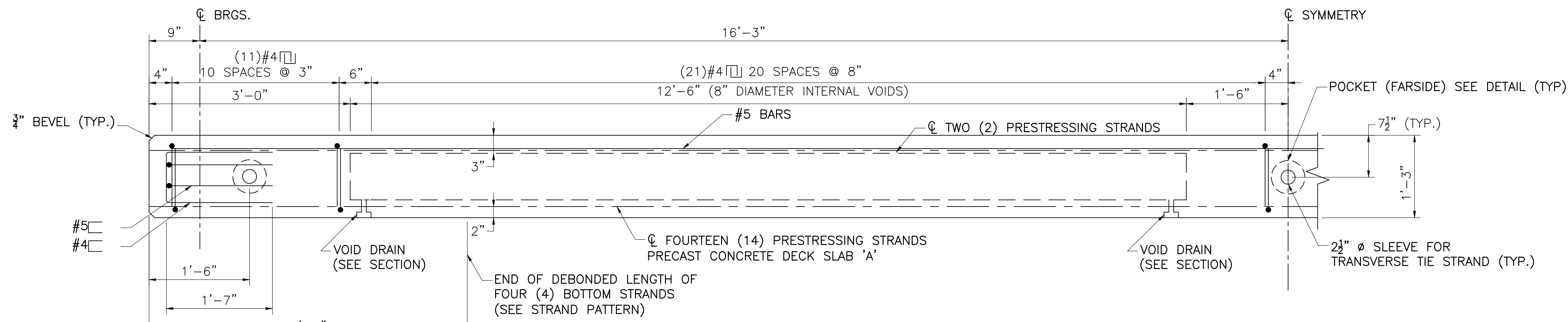


PROJECT TITLE: REPLACEMENT OF PLEASANT VALLEY ROAD BRIDGE OVER MENUNKETESUCK RIVER
CADD: P:\2016\16155 Pleasant Valley Bridge\104\0-Current
PLOTTED: FEBRUARY 18, 2020

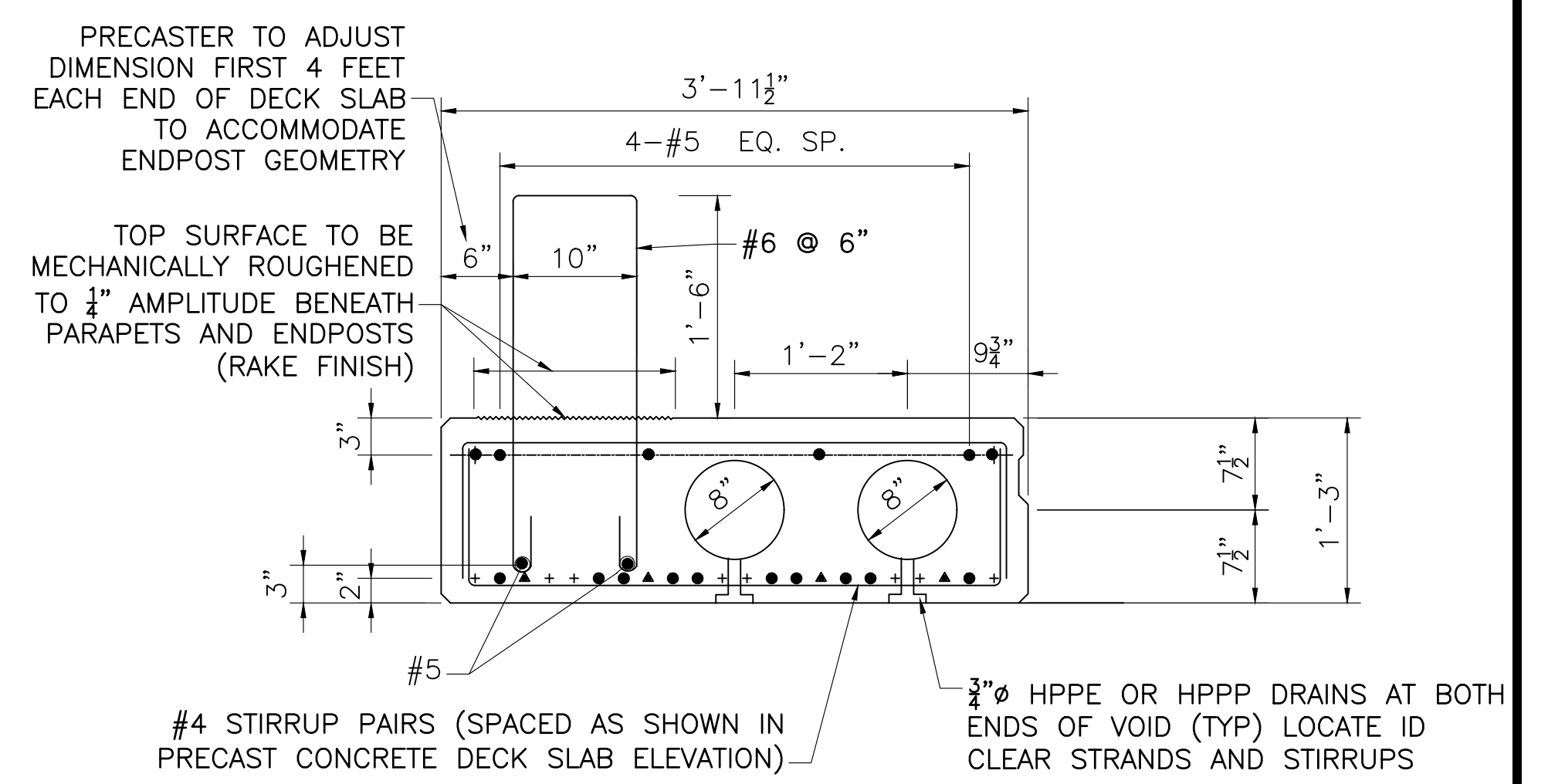
DRAWING TITLE: FRAMING PLAN, SUPERSTRUCTURE SECTION & DETAILS

PROJECT NO.: 9027-4609
DRAWING NO.: S-8
SHEET NO.: 12

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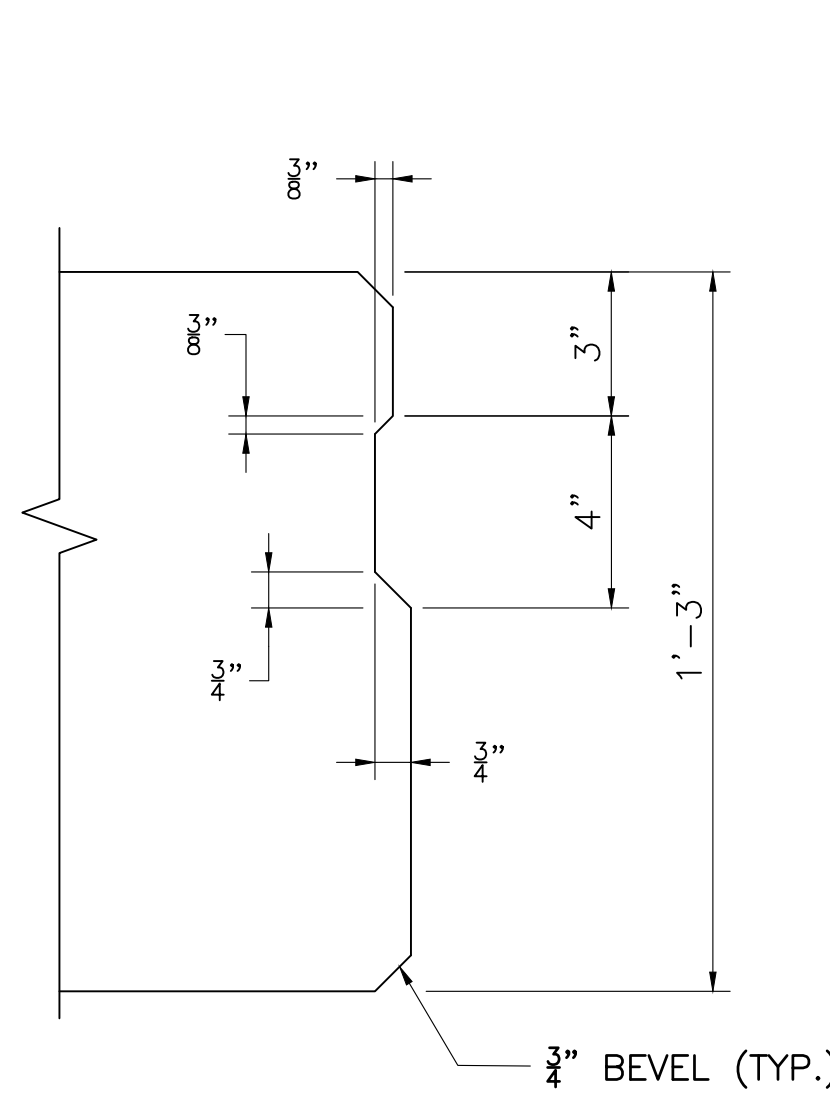
PRECAST CONCRETE DECK SLAB 'A' ELEVATION
SCALE: 1" = 1'-0"



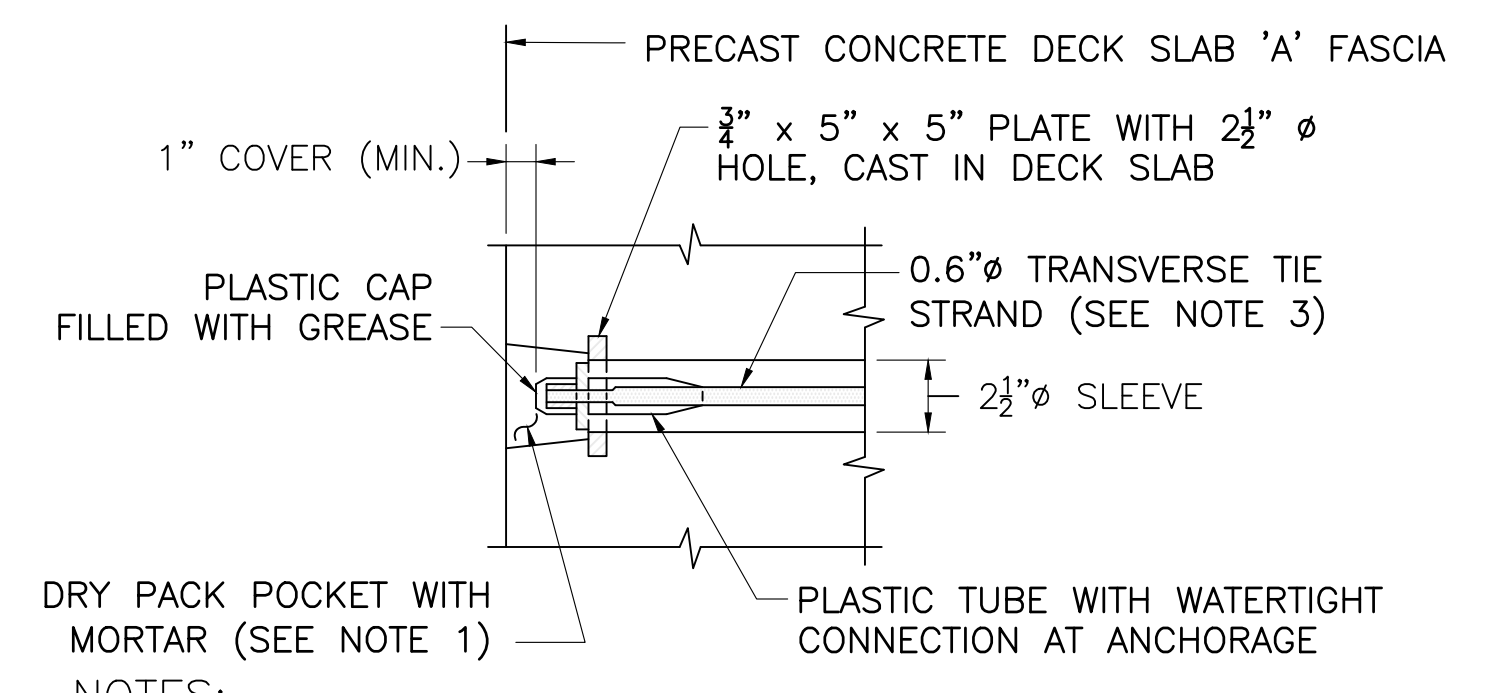
PRECAST CONCRETE DECK SLAB 'A' SECTION
SCALE: 1" = 1'-0"

PRECAST/PRESTRESS NOTES:

- ALL PRETENSIONING ELEMENTS SHALL BE 0.6" Ø UNCOATED, SEVEN-WIRE, LOW RELAXATION STEEL STRANDS AND SHALL CONFORM TO AASHTO M 203.
- THE TENSILE STRENGTH OF THE PRETENSIONING STRANDS SHALL BE 270 KSI.
- THE INITIAL TENSION PER 0.6" Ø STRAND SHALL BE 43.9 KIPS.
- THE MINIMUM 28 DAY CONCRETE COMPRESSIVE STRENGTH SHALL BE 6500 PSI.
- NO PRESTRESS SHALL BE TRANSFERRED TO THE CONCRETE UNTIL IT HAS ATTAINED A COMPRESSIVE STRENGTH, AS SHOWN BY CYLINDER TEST, OF AT LEAST 4500 PSI.
- AFTER ALL DECK SLABS HAVE BEEN ERECTED, TENSION EACH TRANSVERSE TIE TO 5 KIPS.
- AFTER THE GROUT HAS ATTAINED A STRENGTH OF 1500 PSI (BASED ON THE MANUFACTURERS DIRECTIONS) TENSION EACH TRANSVERSE TIE TO 40 KIPS. NO TRAFFIC OR HEAVY EQUIPMENT WILL BE PERMITTED ON THE BRIDGE UNTIL ALL TIES HAVE BEEN FULLY TENSIONED.
- THE TOP OF ALL DECK SLABS SHALL BE SMOOTH AND WITHOUT PROJECTIONS THAT COULD PUNCTURE THE MEMBRANE WATERPROOFING OR DEPRESSIONS THAT COULD RETAIN WATER EXCEPT BENEATH PARAPETS AND ENDPOSTS WHICH SHALL BE RAKE FINISHED TO 1/4" AMPLITUDE.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND DETAILING OF THE LIFTING DEVICES WHICH SHALL BE ADEQUATE FOR THE SAFETY FACTORS REQUIRED BY THE ERECTION PROCEDURE. AT NO TIME DURING FABRICATION AND ERECTION SHALL THE CONCRETE TENSILE STRESS EXCEED 200 PSI.
- THE DRILLING OF HOLES IN (OR THE USE OF POWER ACTUATED TOOLS ON) PRESTRESSED MEMBERS WILL NOT BE PERMITTED

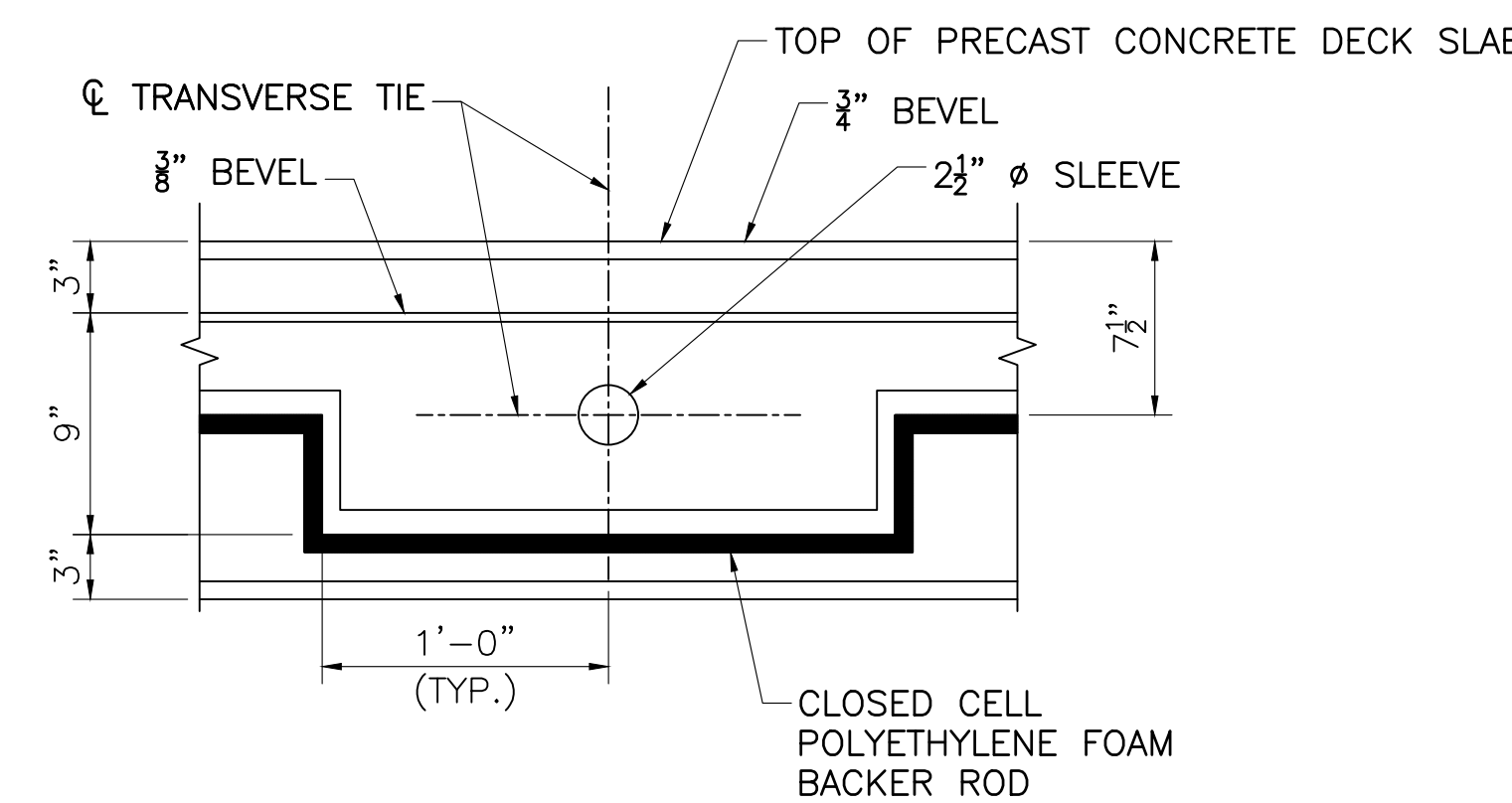


SHEAR KEY DETAIL
SCALE: 3" = 1'-0"

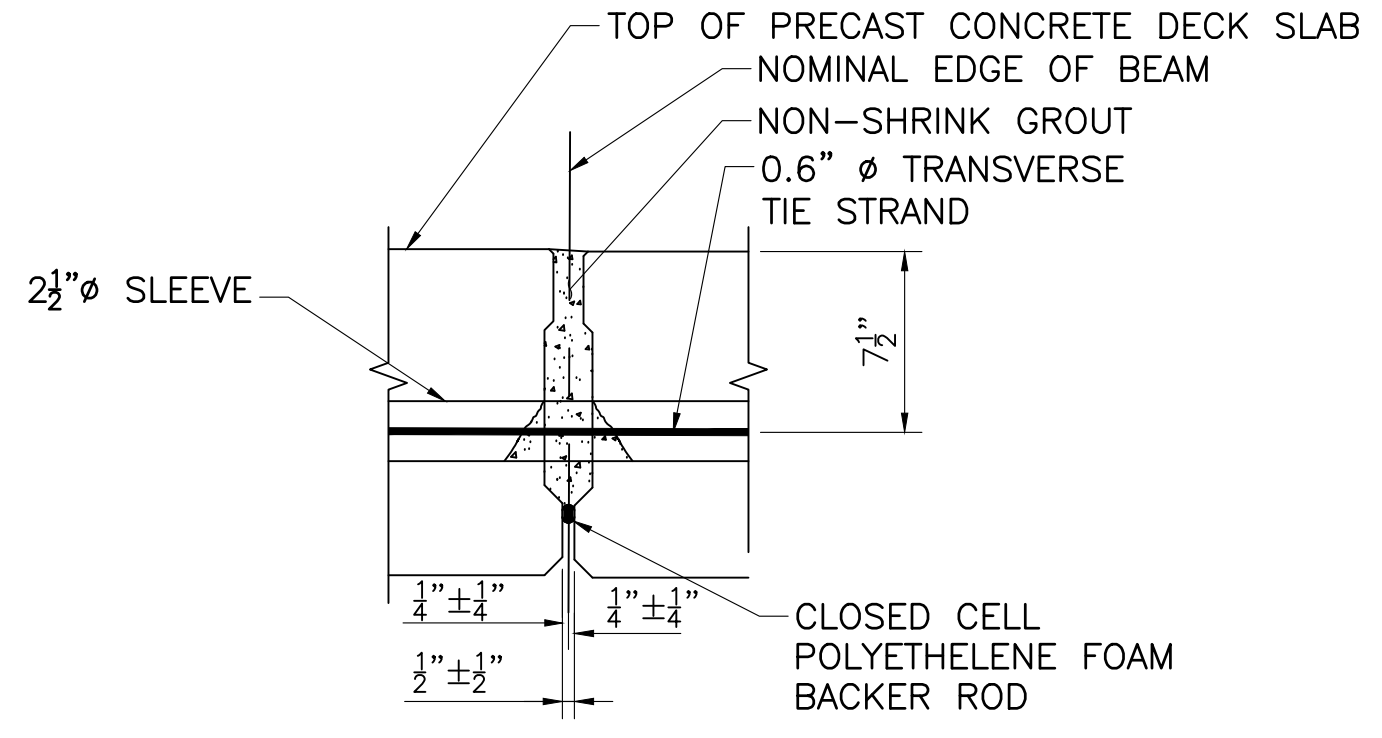


- DRY PACK POCKET WITH MORTAR (SEE NOTE 1)
- NOTES:
- MORTAR FOR EXTERIOR POCKETS SHALL CONFORM TO M4.02.15 AND SHALL BE THE SAME COLOR AND TEXTURE AS THE BEAM CONCRETE.
 - ALTERNATIVE WATERTIGHT AND CORROSION PROOF ANCHORAGE SYSTEMS MAY BE PROPOSED BY THE CONTRACTOR AT NO ADDITIONAL COMPENSATION.
 - TRANSVERSE TIES SHALL BE COVERED BY A SEAMLESS POLYPROPYLENE SHEATH (WITH CORROSION INHIBITING GREASE BETWEEN THE STRAND AND SHEATH) FOR THE FULL LENGTH OF THE STRAND, EXCEPT AT THE ANCHORAGE LOCATION.
 - ALTERNATIVE ANCHORAGE SYSTEMS MAY BE PROPOSED BY THE CONTRACTOR AT NO ADDITIONAL COMPENSATION.
 - NO ADDITIONAL DEAD LOADS OR LIVE LOADS SHALL BE APPLIED TO THE BUTTED DECK UNITS UNTIL THE TRANSVERSE TIES HAVE BEEN FULLY TENSIONED AND THE GROUT IN THE LONGITUDINAL SHEAR KEYS HAS REACHED A SEVEN DAY COMPRESSIVE STRENGTH OF 4,500 PSI

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

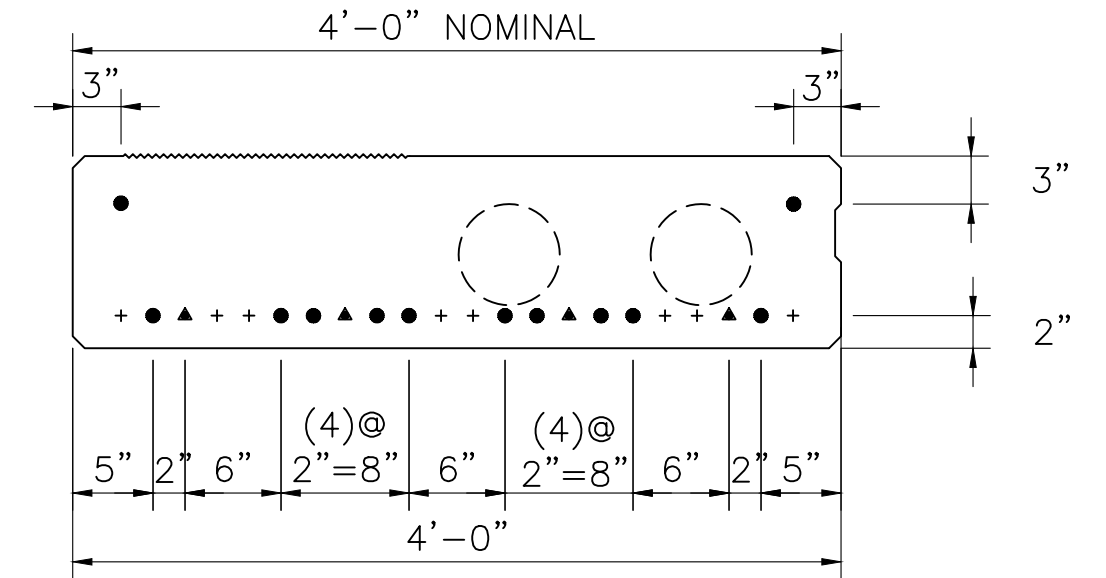


TRANSVERSE TIE ELEVATION
SCALE: 1 1/2" = 1'-0"



NOTE:
ALLOWABLE DIFFERENTIAL CAMBER BETWEEN ADJACENT PRECAST CONCRETE DECK SLABS IS 1/4"/10'-0" (3/8" MAX.).

LONGITUDINAL JOINT DETAIL
SCALE: 1 1/2" = 1'-0"



PRECAST CONCRETE DECK SLAB 'A' STRAND PATTERN
SCALE: 1" = 1'-0"

- 0.6" Ø, SEVEN WIRE LOW RELAXATION STRAND LOCATION
- ▲ DEBONDED STRANDED LOCATION
- + POSSIBLE STRAND LOCATIONS (FROM CT BDM PLATE 5.15)

PRECAST CONCRETE DECK SLAB	QUANTITY REQUIRED
A	ONE
PIECE WEIGHT	23.0 KIP

PRECAST CONCRETE DECK SLAB END ELEVATION
SCALE: 1" = 1'-0"

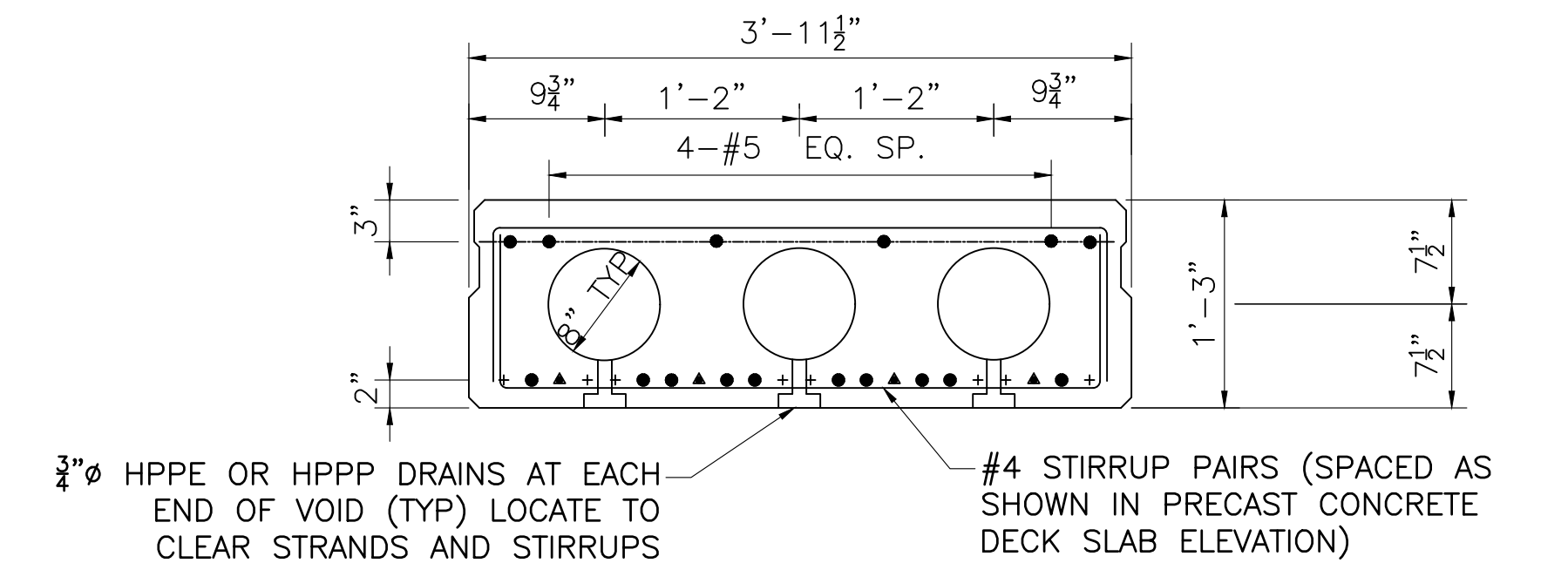
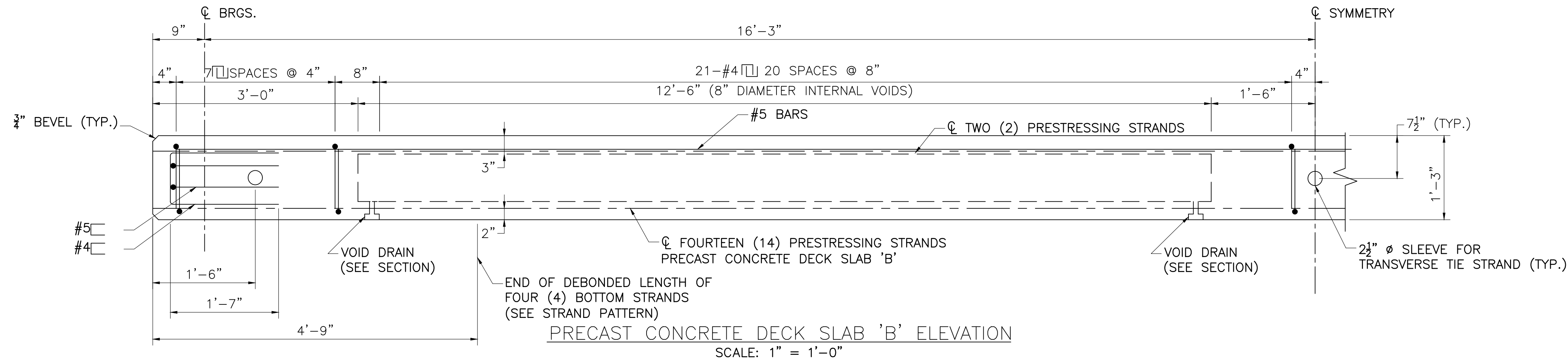
REV.	DATE	DESCRIPTION	SHT. NO.

DESIGNER: KJD	TOWN OF CLINTON
DRAFTER: CJW	
CHECKED BY: RLO	
DATE CHECKED: 02/17/2020	

ENGINEER: DIVERSIFIED TECHNOLOGY CONSULTANTS	DTC
APPROVED BY: _____	
DATE: _____	PROJECT TITLE: REPLACEMENT OF PLEASANT VALLEY ROAD BRIDGE OVER MENUNKETESUCK RIVER

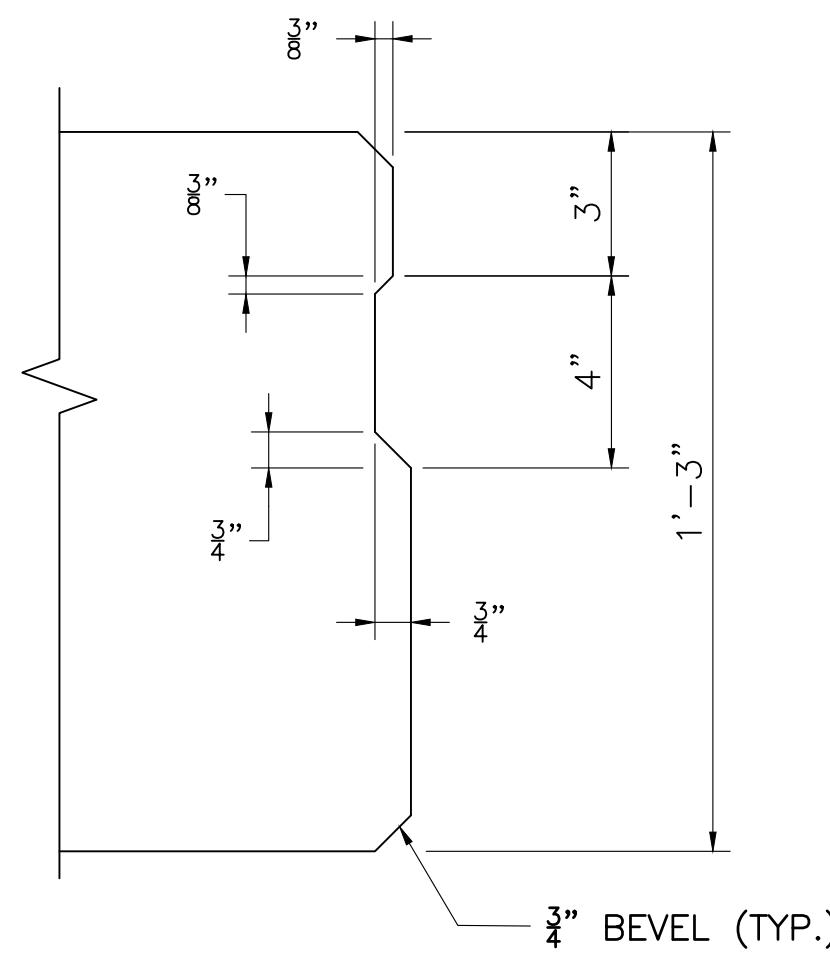
CADD: P:\2016\16155 Pleasant Valley Bridge\104\0-Current	DRAWING TITLE: PRECAST DECK SLAB 'A' DETAILS
PLOTTED: FEBRUARY 18, 2020	PROJECT NO.: 9027-4609
	DRAWING NO.: S-9
	SHEET NO.: 13

Feb 07, 2020 - 0:07pm
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 User: jkennedy

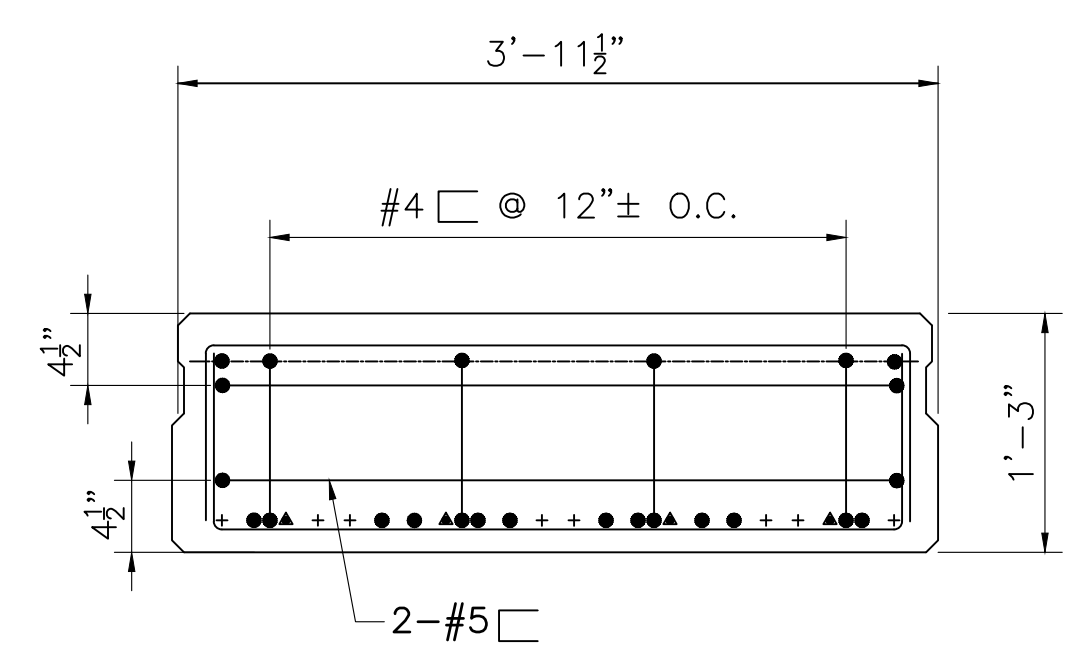


PRECAST/PRESTRESS NOTES:

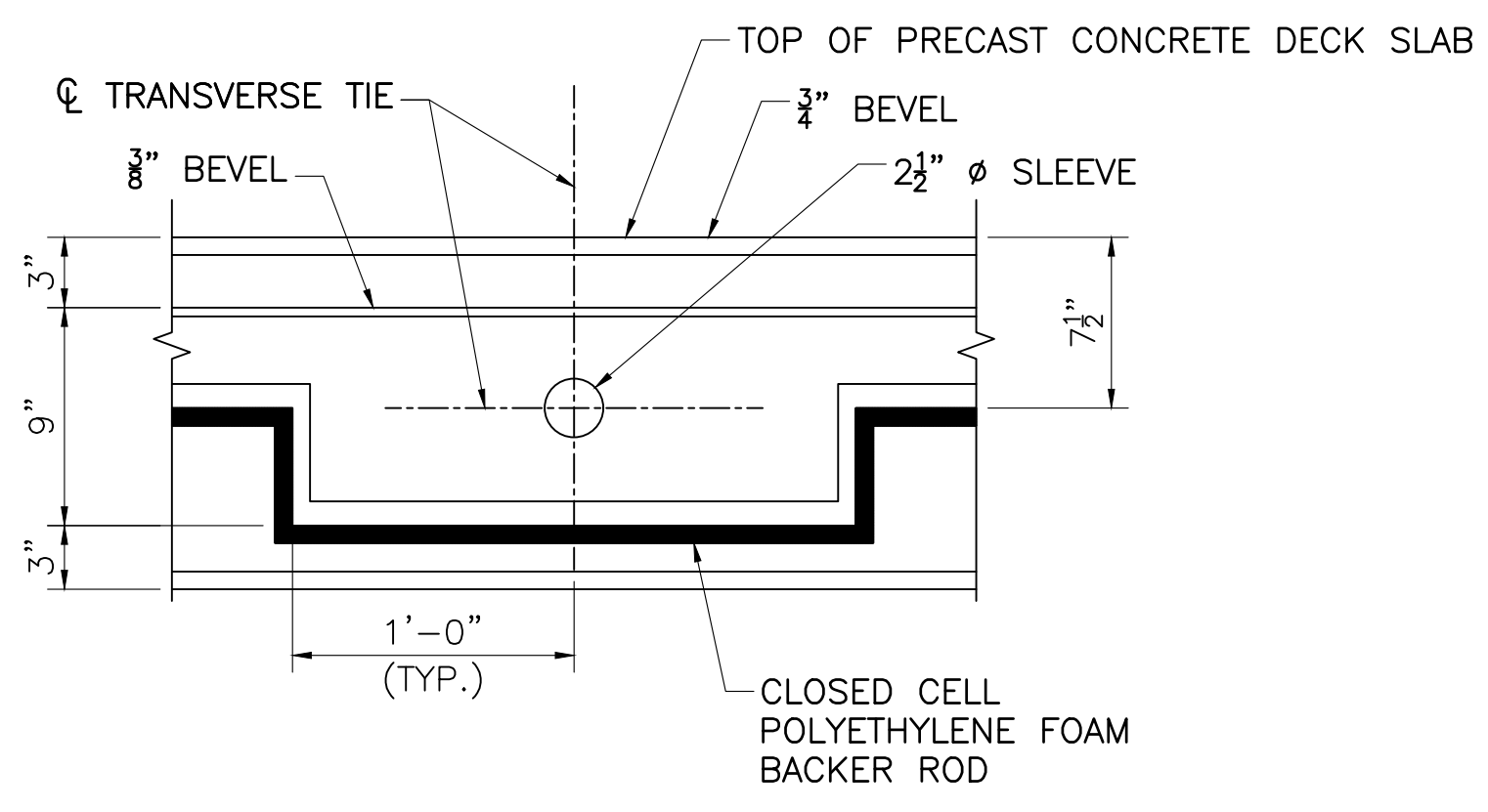
- ALL PRETENSIONING ELEMENTS SHALL BE 0.6" Ø UNCOATED, SEVEN-WIRE, LOW RELAXATION STEEL STRANDS AND SHALL CONFORM TO AASHTO M 203.
- THE TENSILE STRENGTH OF THE PRETENSIONING STRANDS SHALL BE 270 KSI.
- THE INITIAL TENSION PER 0.6" Ø STRAND SHALL BE 43.9 KIPS.
- THE MINIMUM 28 DAY CONCRETE COMPRESSIVE STRENGTH SHALL BE 6500 PSI.
- NO PRESTRESS SHALL BE TRANSFERRED TO THE CONCRETE UNTIL IT HAS ATTAINED A COMPRESSIVE STRENGTH, AS SHOWN BY CYLINDER TEST, OF AT LEAST 4500 PSI.
- TRANSVERSE TIES SHALL BE COVERED BY A SEAMLESS POLYPROPYLENE SHEATH (WITH CORROSION INHIBITING GREASE BETWEEN THE STRAND AND SHEATH) FOR THE FULL LENGTH OF THE STRAND, EXCEPT AT THE ANCHORAGE LOCATION.
- AFTER ALL DECK SLABS HAVE BEEN ERECTED, TENSION EACH TRANSVERSE TIE TO 5 KIPS.
- AFTER THE GROUT HAS ATTAINED A STRENGTH OF 1500 PSI (BASED ON THE MANUFACTURERS DIRECTIONS) TENSION EACH TRANSVERSE TIE TO 40 KIPS. NO TRAFFIC OR HEAVY EQUIPMENT WILL BE PERMITTED ON THE BRIDGE UNTIL ALL TIES HAVE BEEN FULLY TENSIONED.
- NO ADDITIONAL DEAD LOADS OR LIVE LOADS SHALL BE APPLIED TO THE BUTTED DECK UNITS UNTIL THE TRANSVERSE TIES HAVE BEEN FULLY TENSIONED AND THE GROUT IN THE LONGITUDINAL SHEAR KEYS HAS REACHED A SEVEN DAY COMPRESSIVE STRENGTH OF 4500 PSI.
- THE TOP OF ALL DECK SLABS SHALL BE SMOOTH AND WITHOUT PROJECTIONS THAT COULD PUNCTURE THE MEMBRANE WATERPROOFING OR DEPRESSIONS THAT COULD RETAIN WATER.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND DETAILING OF THE LIFTING DEVICES WHICH SHALL BE ADEQUATE FOR THE SAFETY FACTORS REQUIRED BY THE ERECTION PROCEDURE. AT NO TIME DURING FABRICATION AND ERECTION SHALL THE CONCRETE TENSILE STRESS EXCEED 200 PSI.
- THE DRILLING OF HOLES IN (OR THE USE OF POWER ACTUATED TOOLS ON) PRESTRESSED MEMBERS WILL NOT BE PERMITTED



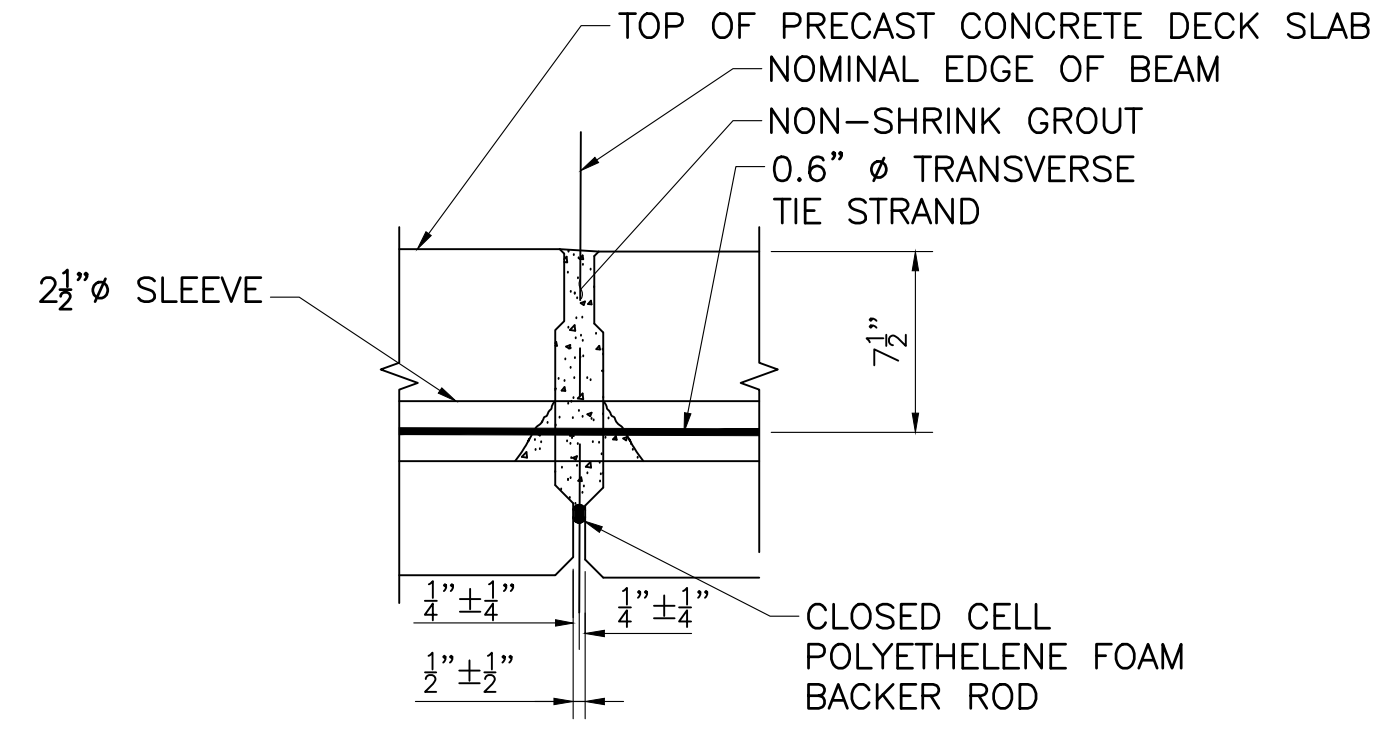
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SCALE: 3" = 1'-0"



PRECAST CONCRETE DECK SLAB END ELEVATION
SCALE: 1" = 1'-0"

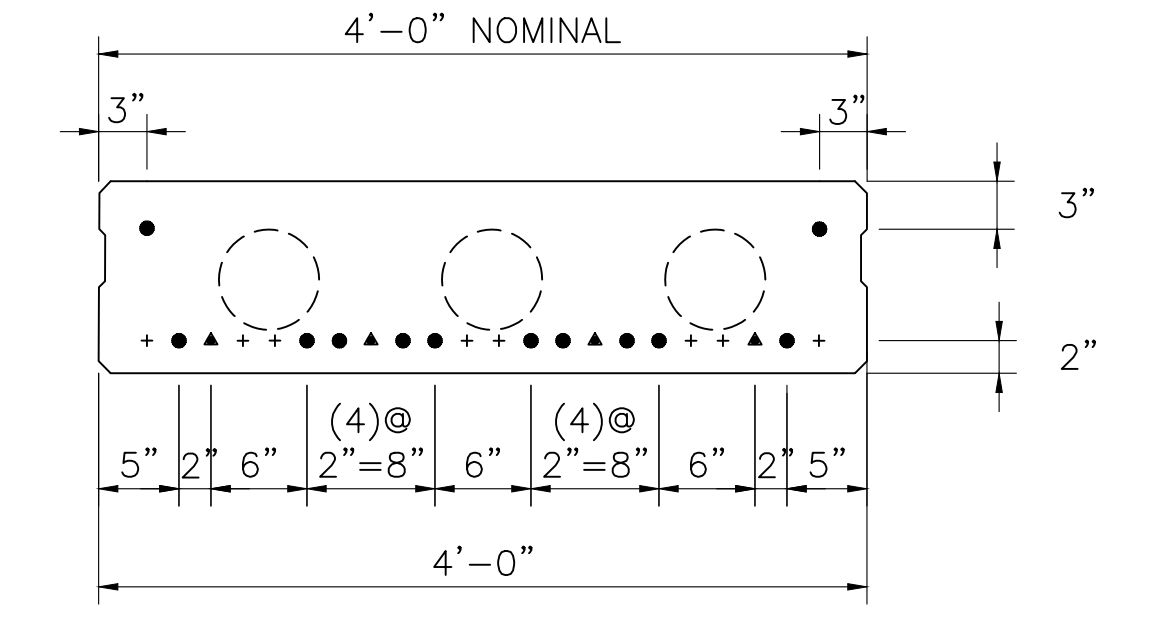


TRANSVERSE TIE ELEVATION
SCALE: 1 1/2" = 1'-0"



NOTE:
ALLOWABLE DIFFERENTIAL CAMBER BETWEEN ADJACENT PRECAST CONCRETE DECK SLABS IS 1/4"/10'-0" (3/8" MAX.).

LONGITUDINAL JOINT DETAIL
SCALE: 1 1/2" = 1'-0"



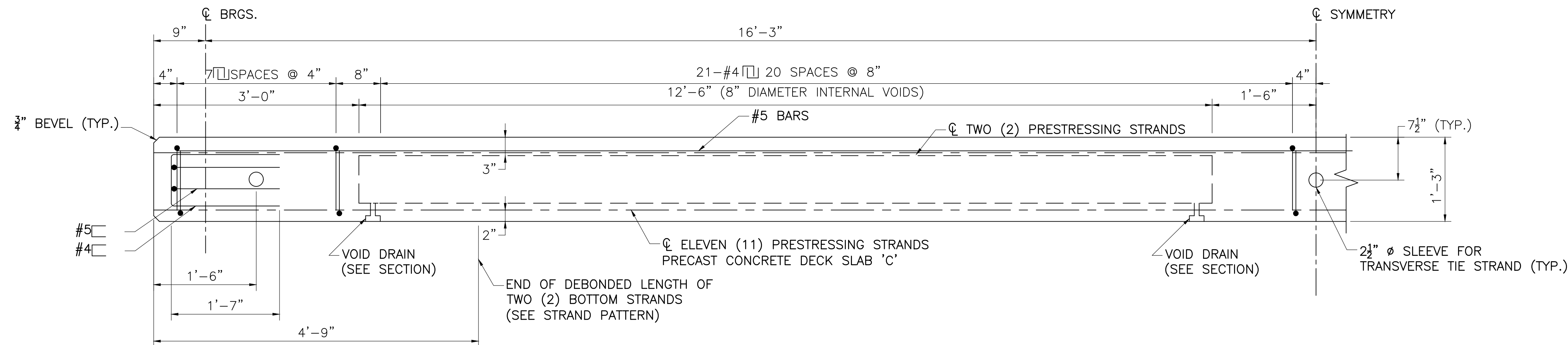
PRECAST CONCRETE DECK SLAB 'B' STRAND PATTERN
SCALE: 1" = 1'-0"

- 0.6" Ø, SEVEN WIRE LOW RELAXATION STRAND LOCATION
- ▲ DEBONDED STRANDED LOCATION
- + POSSIBLE STRAND LOCATIONS (FROM CT BDM PLATE 5.15)

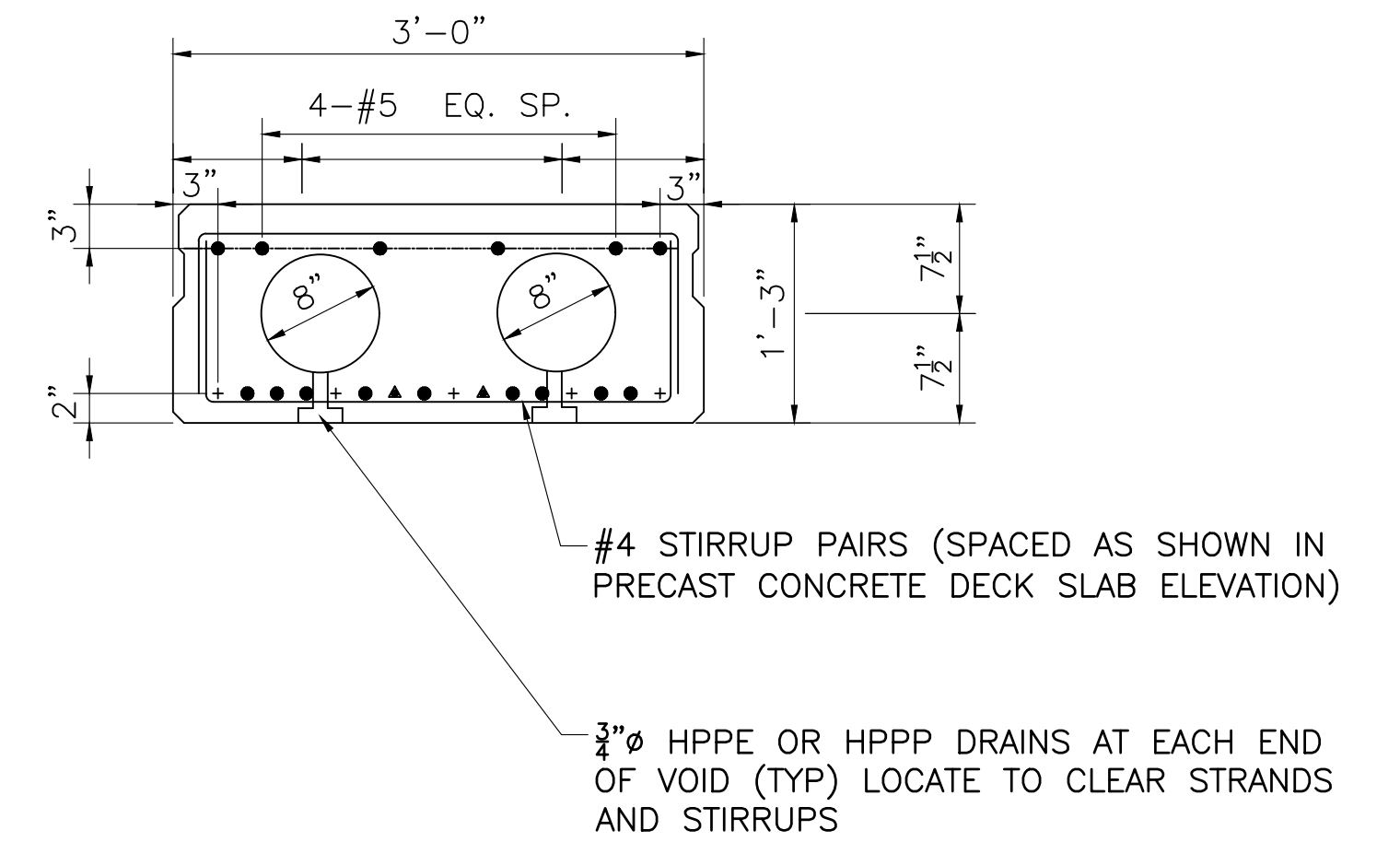
PRECAST CONCRETE DECK SLAB	QUANTITY REQUIRED
B	5
PIECE WEIGHT	21.7 KIP

Feb 07, 2020 - 0:07pm
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 swhan@ctc.com

DESIGNER: KJD		TOWN OF CLINTON		PROJECT TITLE:	DRAWING TITLE:	PROJECT NO.:
DRAFTER: CJW				REPLACEMENT OF PLEASANT VALLEY ROAD BRIDGE OVER MENUNKETESUCK RIVER		PRECAST DECK SLAB 'B' DETAILS
CHECKED BY: RLO		ENGINEER: DIVERSIFIED TECHNOLOGY CONSULTANTS	CADD: P:\2016\16155 Pleasant Valley Bridge\104\0-Current		DRAWING NO.:	S-10
DATE CHECKED: 02/17/2020		APPROVED BY:	PLOTTED: FEBRUARY 18, 2020		SHEET NO.:	14
REV.	DATE	DESCRIPTION	SHT. NO.			
		REVISIONS				



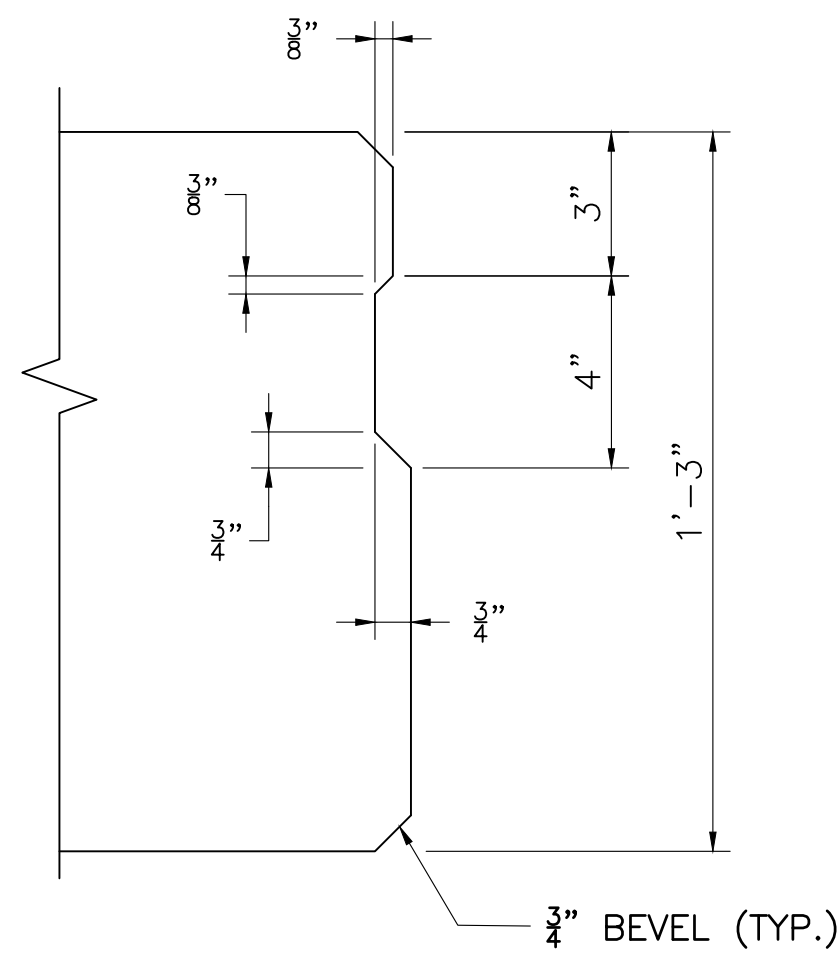
PRECAST CONCRETE DECK SLAB 'C' ELEVATION
SCALE: 1" = 1'-0"



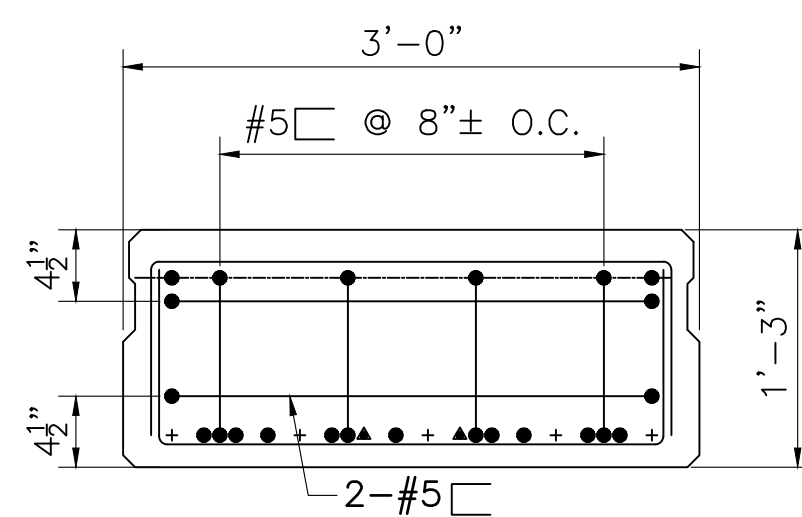
PRECAST CONCRETE DECK SLAB 'C' SECTION
SCALE: 1" = 1'-0"

PRECAST/PRESTRESS NOTES:

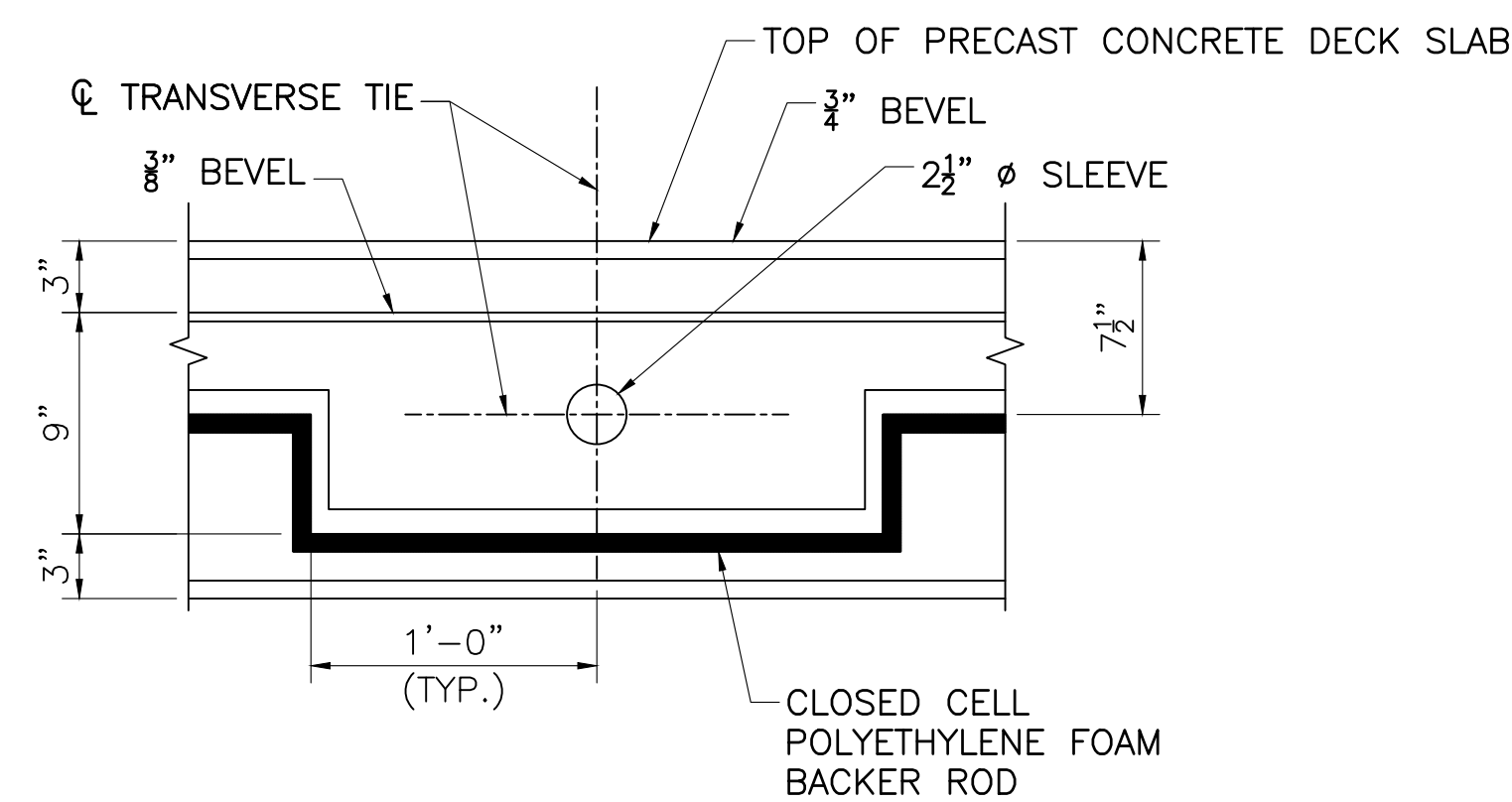
- ALL PRETENSIONING ELEMENTS SHALL BE 0.6" Ø UNCOATED, SEVEN-WIRE, LOW RELAXATION STEEL STRANDS AND SHALL CONFORM TO AASHTO M 203.
- THE TENSILE STRENGTH OF THE PRETENSIONING STRANDS SHALL BE 270 KSI.
- THE INITIAL TENSION PER 0.6" Ø STRAND SHALL BE 43.9 KIPS.
- THE MINIMUM 28 DAY CONCRETE COMPRESSIVE STRENGTH SHALL BE 6500 PSI.
- NO PRESTRESS SHALL BE TRANSFERRED TO THE CONCRETE UNTIL IT HAS ATTAINED A COMPRESSIVE STRENGTH, AS SHOWN BY CYLINDER TEST, OF AT LEAST 4500 PSI.
- TRANSVERSE TIES SHALL BE COVERED BY A SEAMLESS POLYPROPYLENE SHEATH (WITH CORROSION INHIBITING GREASE BETWEEN THE STRAND AND SHEATH) FOR FULL LENGTH OF THE STRAND, EXCEPT AT THE ANCHORAGE LOCATION.
- AFTER ALL DECK SLABS HAVE BEEN ERECTED, TENSION EACH TRANSVERSE TIE TO 5 KIPS.
- AFTER THE GROUT HAS ATTAINED A STRENGTH OF 1500 PSI (BASED ON THE MANUFACTURERS DIRECTIONS) TENSION EACH TRANSVERSE TIE TO 40 KIPS. NO TRAFFIC OR HEAVY EQUIPMENT WILL BE PERMITTED ON THE BRIDGE UNTIL ALL TIES HAVE BEEN FULLY TENSIONED.
- NO ADDITIONAL DEAD LOADS OR LIVE LOADS SHALL BE APPLIED TO THE BUTTED DECK UNITS UNTIL THE TRANSVERSE TIES HAVE BEEN FULLY TENSIONED AND THE GROUT IN THE LONGITUDINAL SHEAR KEYS HAS REACHED A SEVEN DAY COMPRESSIVE STRENGTH OF 4500 PSI.
- THE TOP OF ALL DECK SLABS SHALL BE SMOOTH AND WITHOUT PROJECTIONS THAT COULD PUNCTURE THE MEMBRANE WATERPROOFING OR DEPRESSIONS THAT COULD RETAIN WATER.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND DETAILING OF THE LIFTING DEVICES WHICH SHALL BE ADEQUATE FOR THE SAFETY FACTORS REQUIRED BY THE ERECTION PROCEDURE. AT NO TIME DURING FABRICATION AND ERECTION SHALL THE CONCRETE TENSILE STRESS EXCEED 200 PSI.
- THE DRILLING OF HOLES IN (OR THE USE OF POWER ACTUATED TOOLS ON) PRESTRESSED MEMBERS WILL NOT BE PERMITTED.



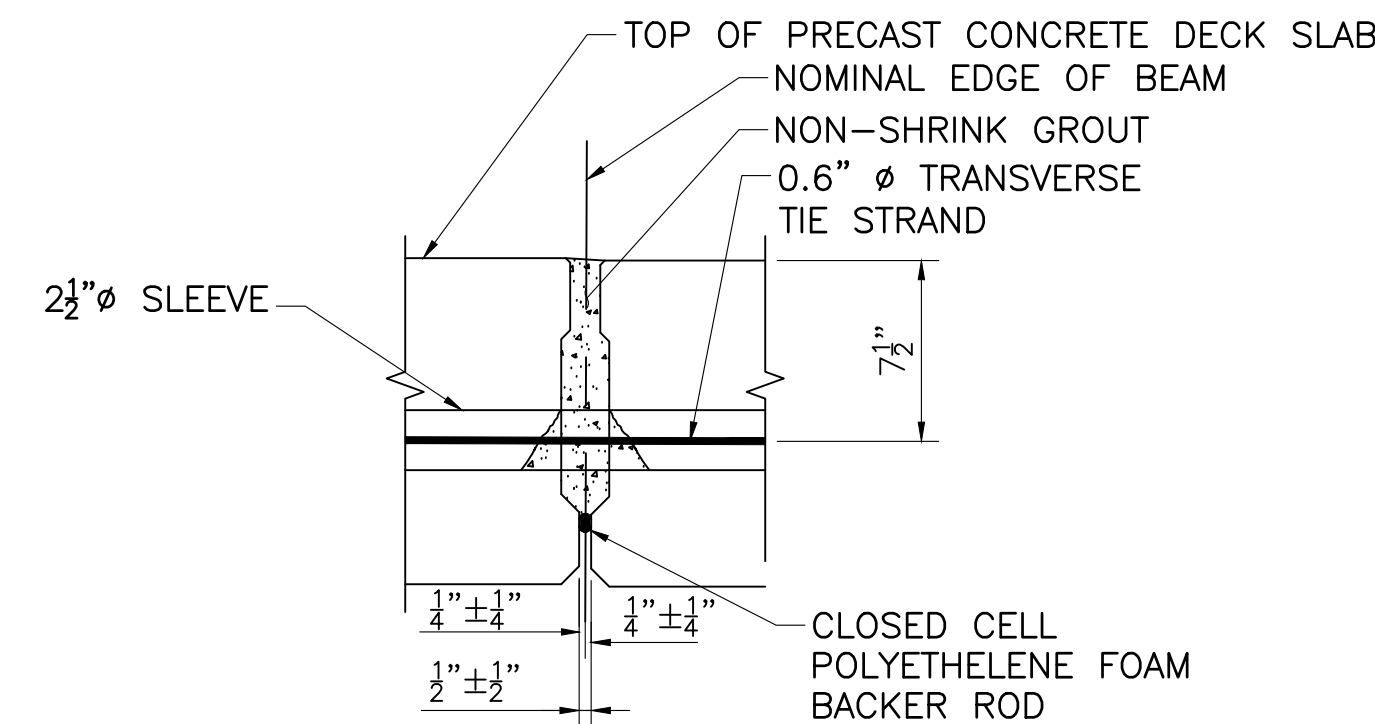
SHEAR KEY DETAIL
SCALE: 3" = 1'-0"



PRECAST CONCRETE DECK SLAB END ELEVATION
SCALE: 1" = 1'-0"

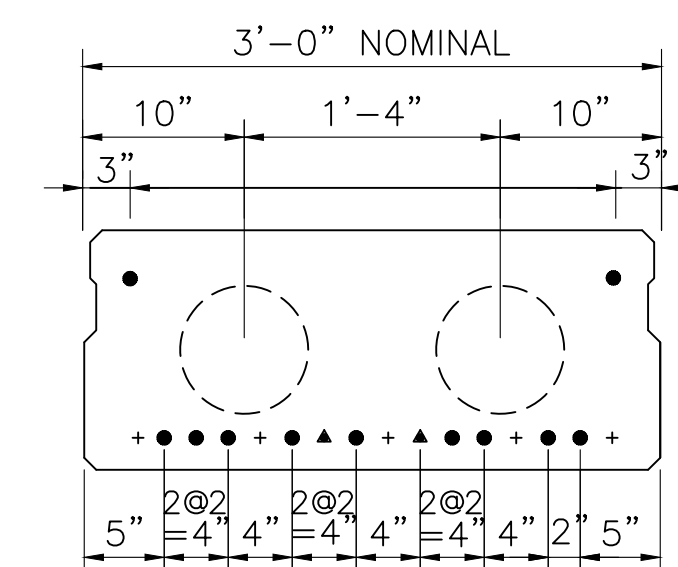


TRANSVERSE TIE ELEVATION
SCALE: 1 1/2" = 1'-0"



NOTE:
ALLOWABLE DIFFERENTIAL CAMBER BETWEEN ADJACENT PRECAST CONCRETE DECK SLABS IS 1/4"/10'-0" (3/8" MAX.).

LONGITUDINAL JOINT DETAIL
SCALE: 1 1/2" = 1'-0"



PRECAST CONCRETE DECK SLAB 'C' STRAND PATTERN
SCALE: 1" = 1'-0"

- 0.6" Ø, SEVEN WIRE LOW RELAXATION STRAND LOCATION
- ▲ DEBONDED STRANDED LOCATION
- + POSSIBLE STRAND LOCATIONS (FROM CT BDM PLATE 5.13)

PRECAST CONCRETE DECK SLAB	QUANTITY REQUIRED
C	ONE
PIECE WEIGHT	16.4 KIP

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REV.	DATE	DESCRIPTION	SHT. NO.

DESIGNER: KJD	TOWN OF CLINTON
DRAFTER: CJW	
CHECKED BY: RLO	
DATE CHECKED: 02/17/2020	

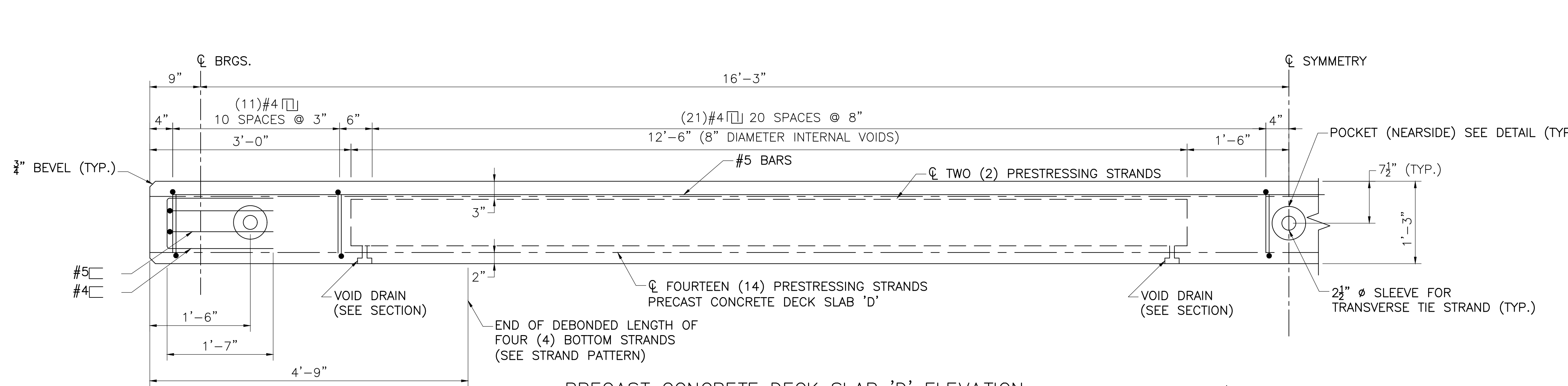
ENGINEER: DIVERSIFIED TECHNOLOGY CONSULTANTS	DTC
APPROVED BY: _____	
DATE: _____	

2321 Whitney Avenue - Hamden, Connecticut 06518
 Ph: 203.234.4200 Fax: 203.234.7979
 www.dtcinc.com

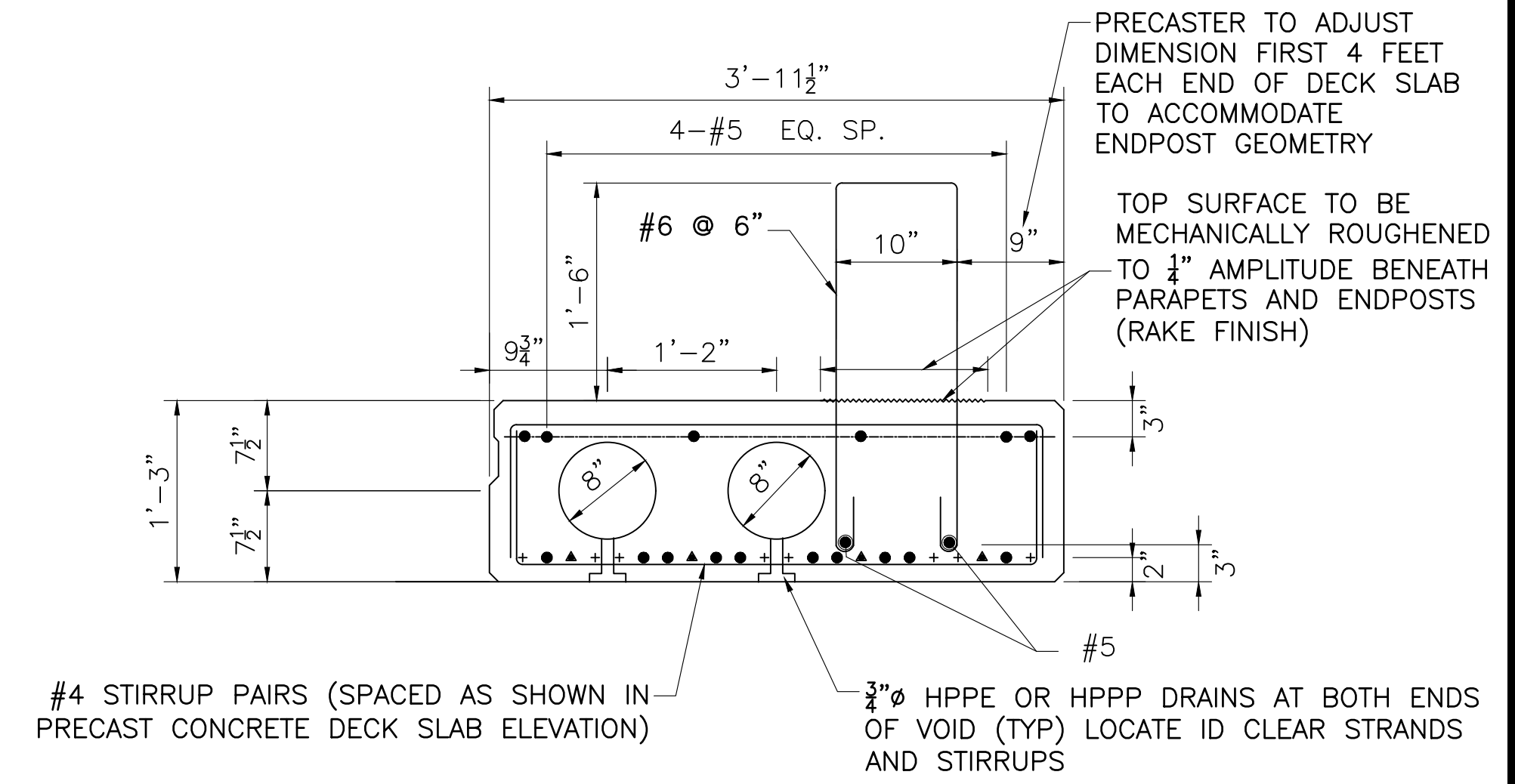
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CADD: P:\2016\16155 Pleasant Valley Bridge\104\0-CURRENT
PLOTTED: FEBRUARY 18, 2020

DRAWING TITLE: PRECAST DECK SLAB 'C' DETAILS
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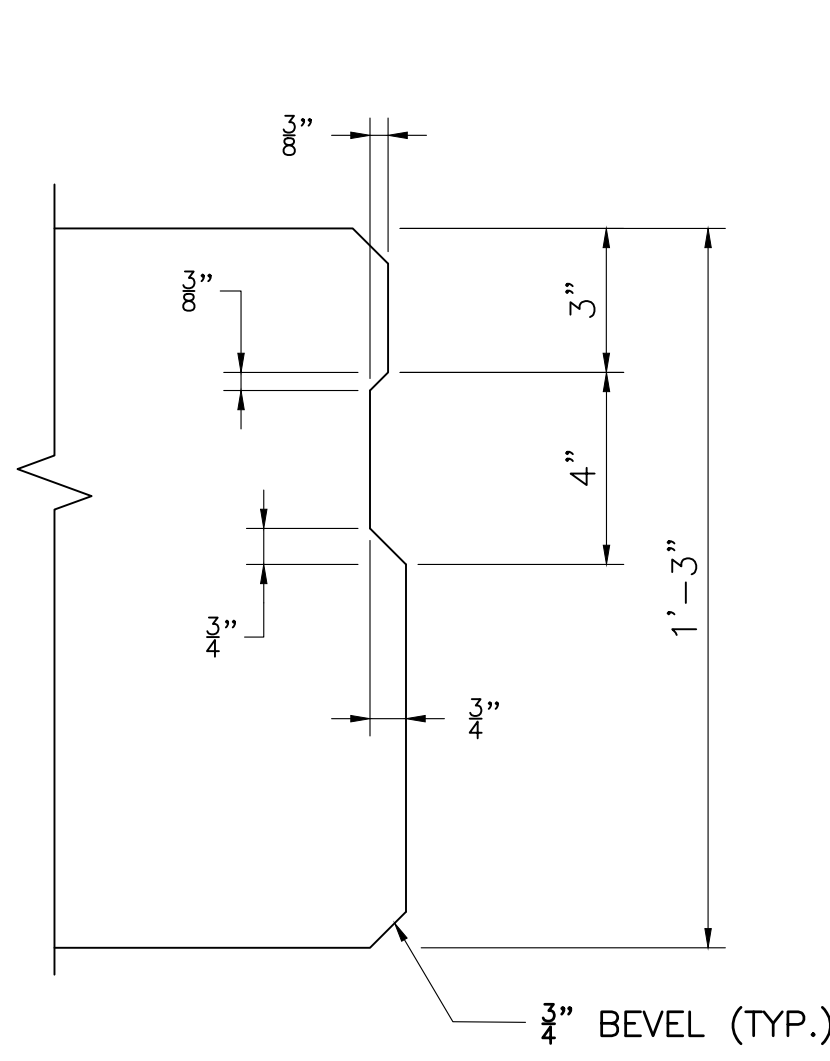
PROJECT NO.: 9027-4609
DRAWING NO.: S-11
SHEET NO.: 15



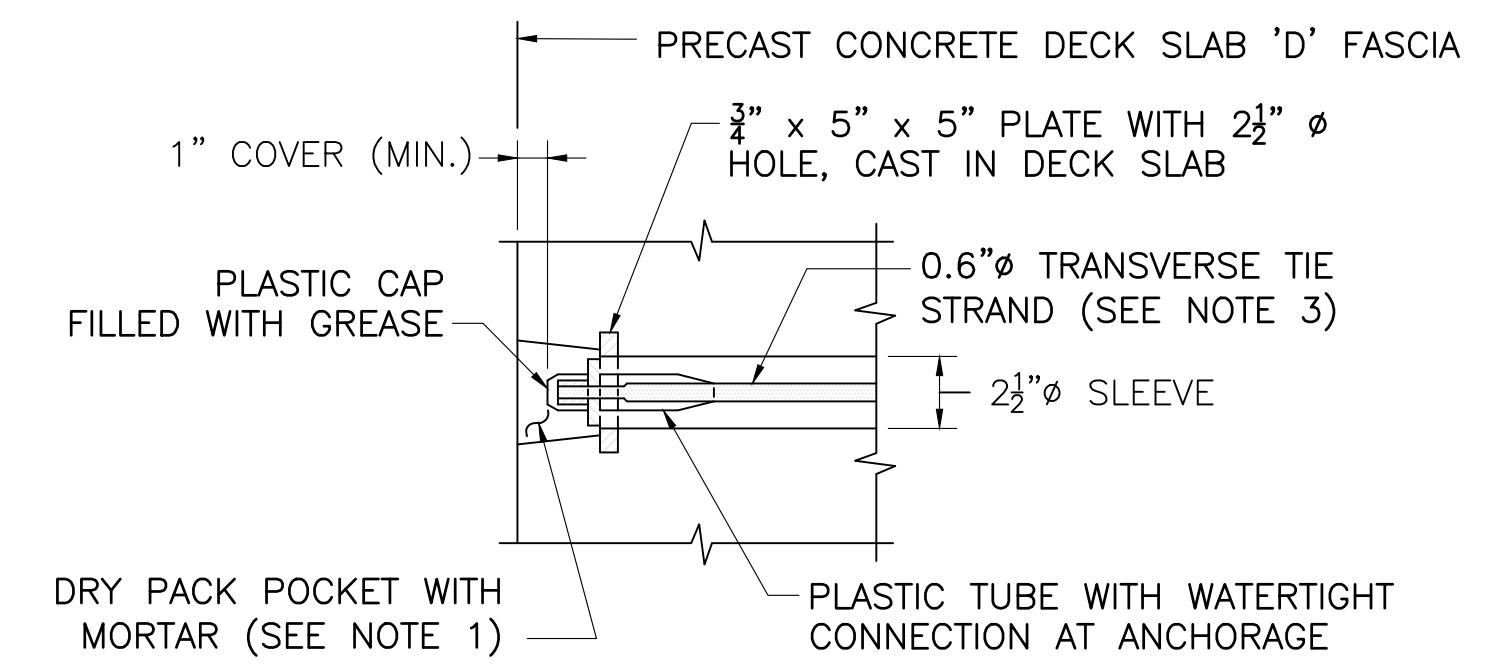
PRECAST CONCRETE DECK SLAB 'D' ELEVATION
SCALE: 1" = 1'-0"



PRECAST CONCRETE DECK SLAB 'D' SECTION
SCALE: 1" = 1'-0"



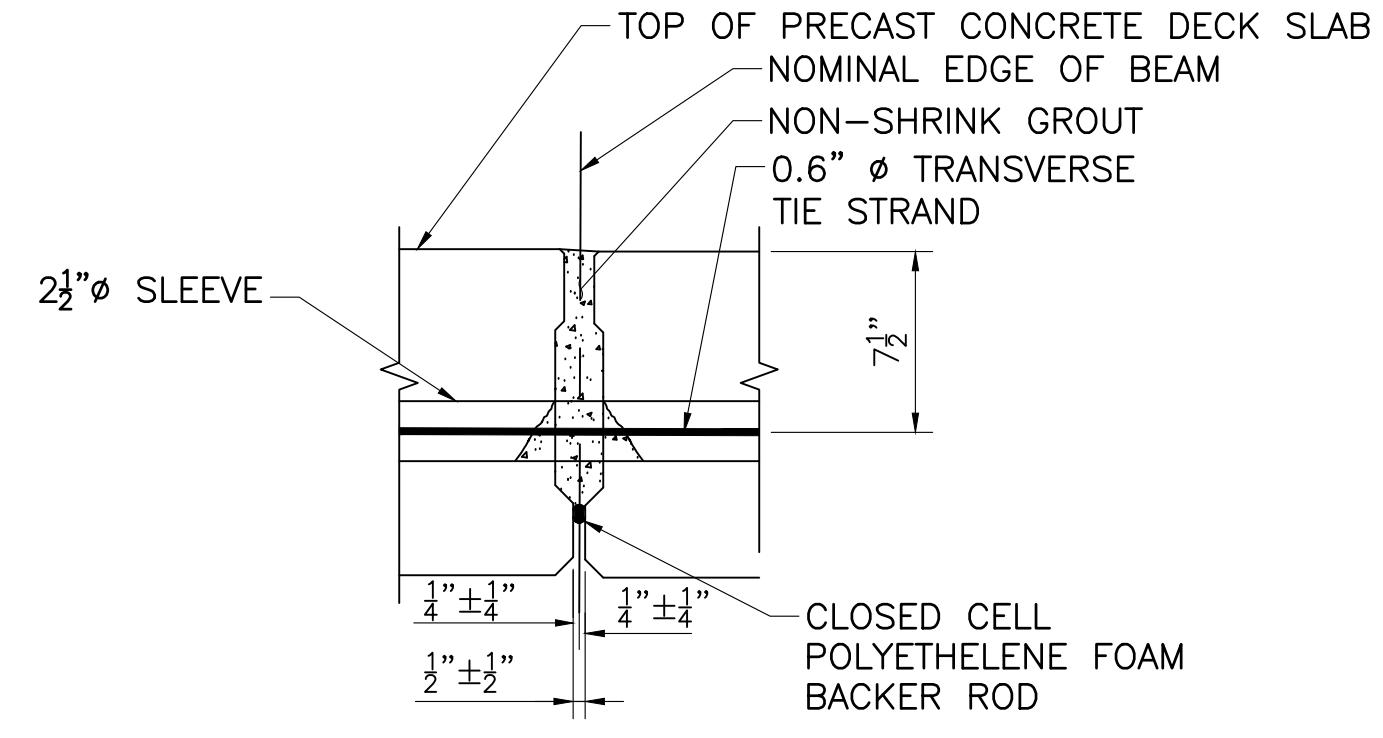
SHEAR KEY DETAIL
SCALE: 3" = 1'-0"



- NOTES:
- MORTAR FOR EXTERIOR POCKETS SHALL CONFORM TO M4.02.15 AND SHALL BE THE SAME COLOR AND TEXTURE AS THE BEAM CONCRETE.
 - ALTERNATIVE WATERTIGHT AND CORROSION PROOF ANCHORAGE SYSTEMS MAY BE PROPOSED BY THE CONTRACTOR AT NO ADDITIONAL COMPENSATION.
 - TRANSVERSE TIES SHALL BE COVERED BY A SEAMLESS POLYPROPYLENE SHEATH (WITH CORROSION INHIBITING GREASE BETWEEN THE STRAND AND SHEATH) FOR THE FULL LENGTH OF THE STRAND, EXCEPT AT THE ANCHORAGE LOCATION.
 - ALTERNATIVE ANCHORAGE SYSTEMS MAY BE PROPOSED BY THE CONTRACTOR AT NO ADDITIONAL COMPENSATION.
 - NO ADDITIONAL DEAD LOADS OR LIVE LOADS SHALL BE APPLIED TO THE BUTTED DECK UNITS UNTIL THE TRANSVERSE TIES HAVE BEEN FULLY TENSIONED AND THE GROUT IN THE LONGITUDINAL SHEAR KEYS HAS REACHED A SEVEN DAY COMPRESSIVE STRENGTH OF 4,500 PSI

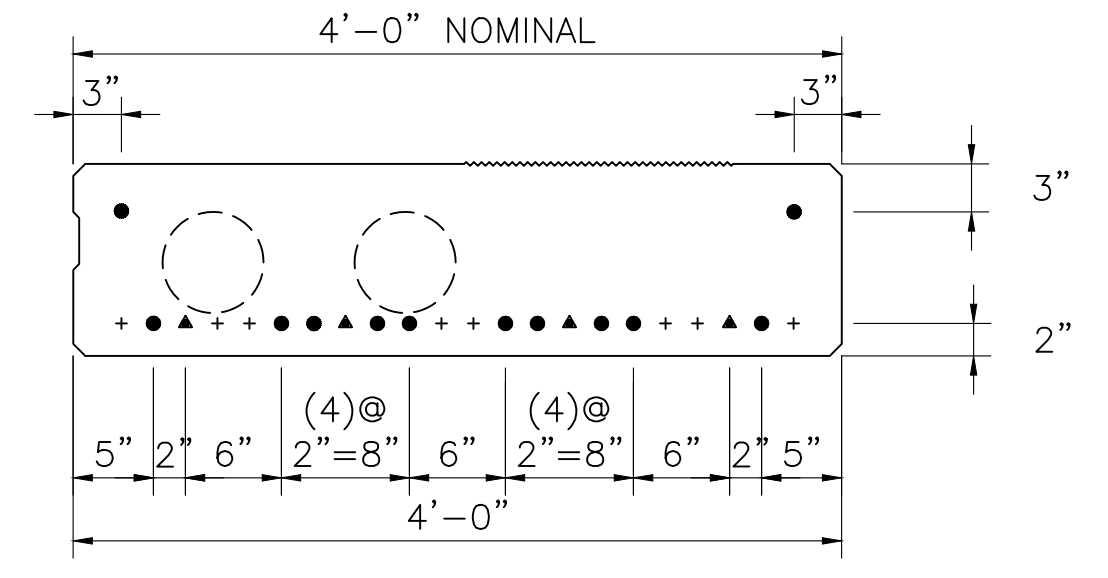
POCKET DETAIL
SCALE: 1 1/2" = 1'-0"

- PRECAST/PRESTRESS NOTES:
- ALL PRETENSIONING ELEMENTS SHALL BE 0.6" Ø UNCOATED, SEVEN-WIRE, LOW RELAXATION STEEL STRANDS AND SHALL CONFORM TO AASHTO M 203.
 - THE TENSILE STRENGTH OF THE PRETENSIONING STRANDS SHALL BE 270 KSI.
 - THE INITIAL TENSION PER 0.6" Ø STRAND SHALL BE 43.9 KIPS.
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 - THE TOP OF ALL DECK SLABS SHALL BE SMOOTH AND WITHOUT PROJECTIONS THAT COULD PUNCTURE THE MEMBRANE WATERPROOFING OR DEPRESSIONS THAT COULD RETAIN WATER EXCEPT BENEATH PARAPETS AND ENDPOSTS WHICH SHALL BE RAKE FINISHED TO 1/4" AMPLITUDE.
 - THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND DETAILING OF THE LIFTING DEVICES WHICH SHALL BE ADEQUATE FOR THE SAFETY FACTORS REQUIRED BY THE ERECTION PROCEDURE. AT NO TIME DURING FABRICATION AND ERECTION SHALL THE CONCRETE TENSILE STRESS EXCEED 200 PSI.
 - THE DRILLING OF HOLES IN (OR THE USE OF POWER ACTUATED TOOLS ON) PRESTRESSED MEMBERS WILL NOT BE PERMITTED



NOTE:
ALLOWABLE DIFFERENTIAL CAMBER BETWEEN ADJACENT PRECAST CONCRETE DECK SLABS IS 1/4"/10'-0" (3/8" MAX.).

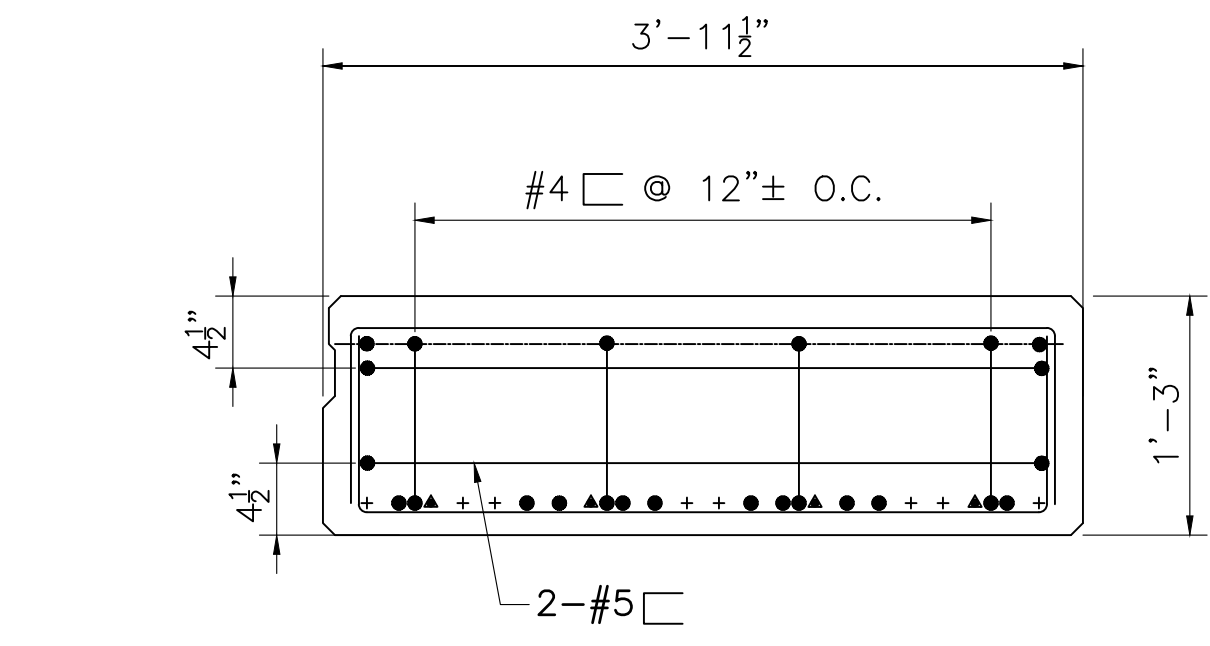
LONGITUDINAL JOINT DETAIL
SCALE: 1 1/2" = 1'-0"



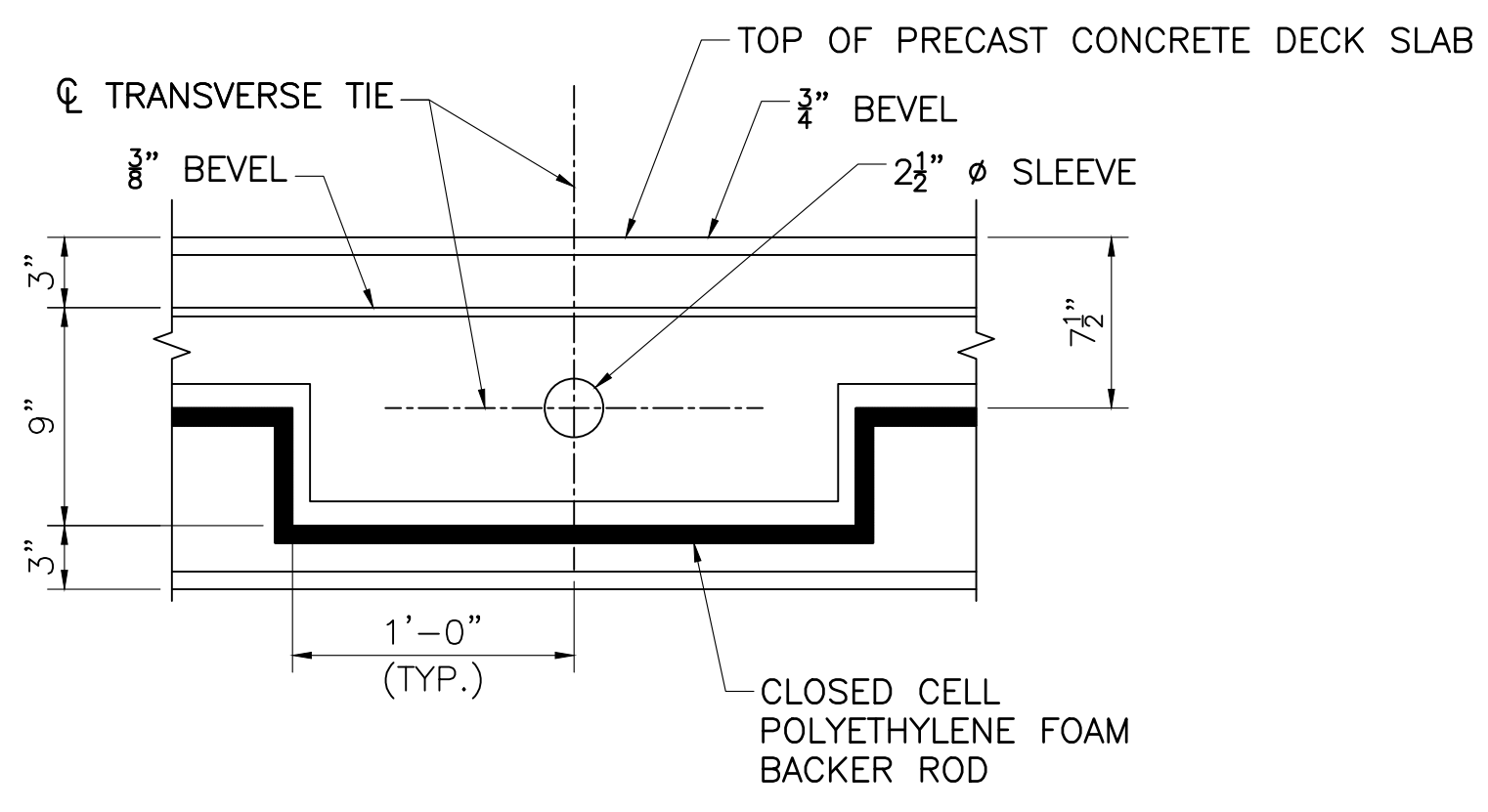
PRECAST CONCRETE DECK SLAB 'D' STRAND PATTERN
SCALE: 1" = 1'-0"

- 0.6" Ø, SEVEN WIRE LOW RELAXATION STRAND LOCATION
- ▲ DEBONDED STRANDED LOCATION
- + POSSIBLE STRAND LOCATIONS (FROM CT BDM PLATE 5.15)

PRECAST CONCRETE DECK SLAB	QUANTITY REQUIRED
D	ONE
PIECE WEIGHT	23.0 KIP



PRECAST CONCRETE DECK SLAB END ELEVATION
SCALE: 1" = 1'-0"



TRANSVERSE TIE ELEVATION
SCALE: 1 1/2" = 1'-0"

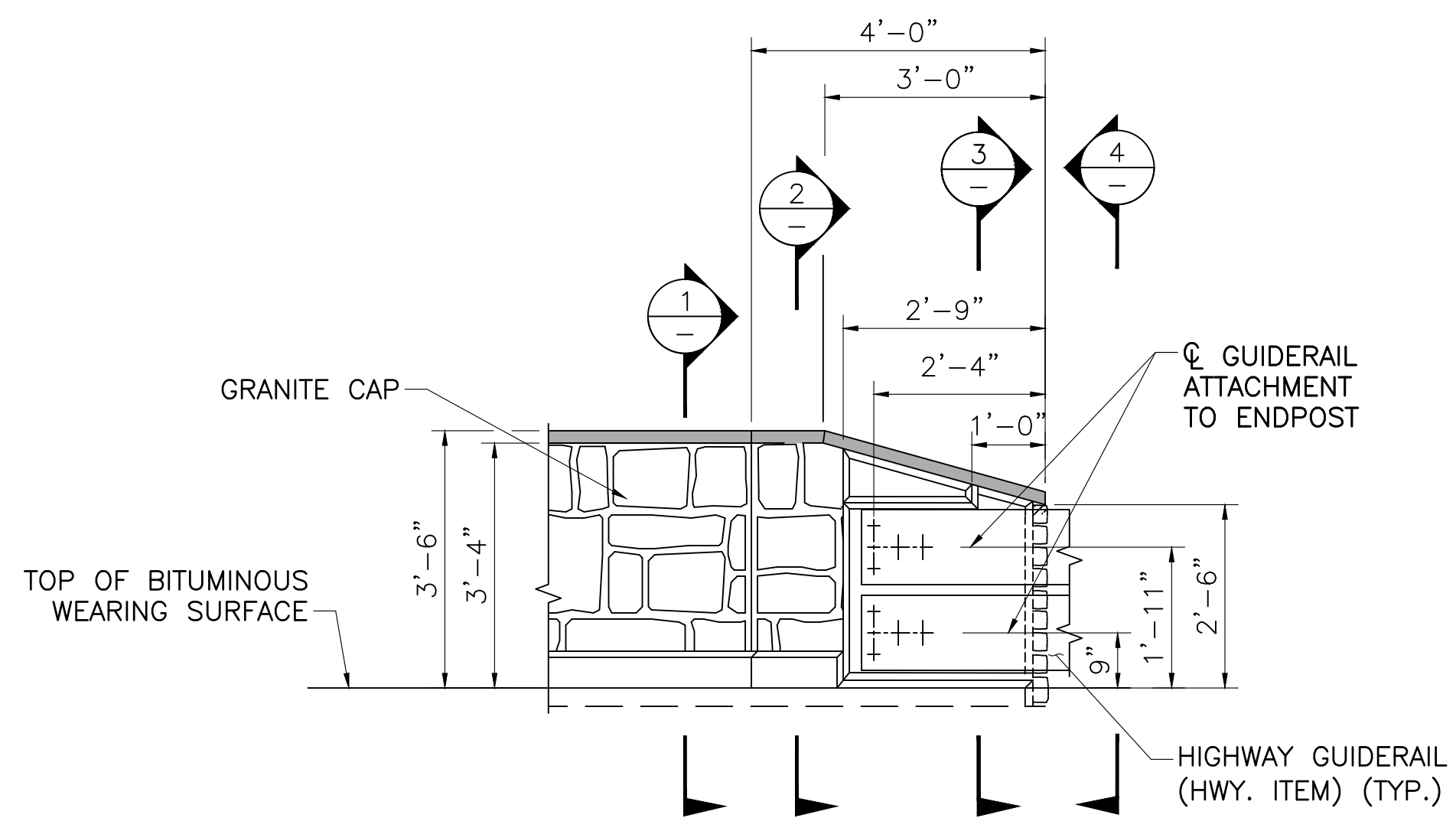
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 User: jkennedy

REV.	DATE	DESCRIPTION	SHT. NO.

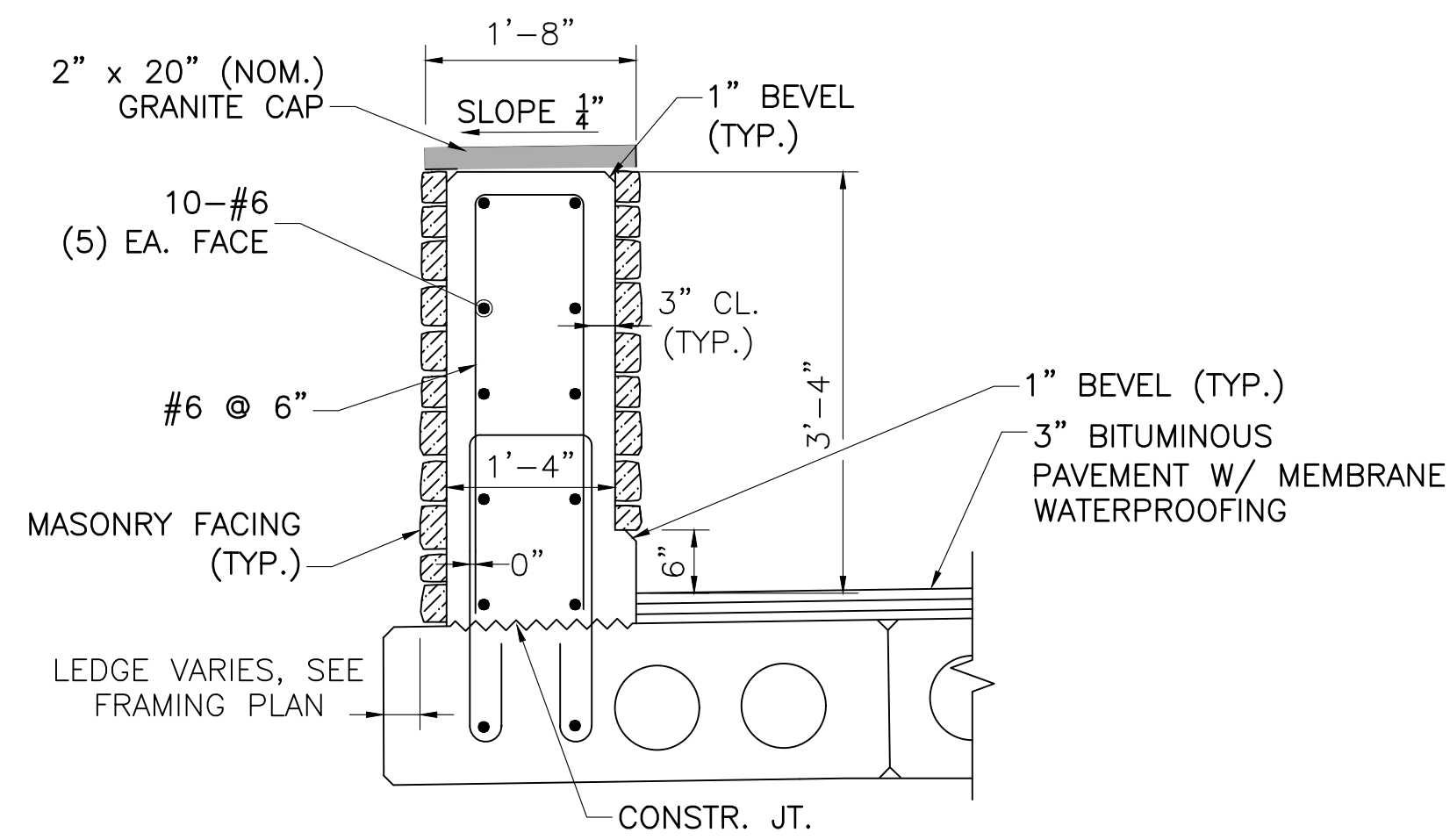
DESIGNER: KJD	TOWN OF CLINTON
DRAFTER: CJW	
CHECKED BY: RLO	
DATE CHECKED: 02/17/2020	

ENGINEER: DIVERSIFIED TECHNOLOGY CONSULTANTS	DTC
APPROVED BY: _____	
DATE: _____	PROJECT TITLE: REPLACEMENT OF PLEASANT VALLEY ROAD BRIDGE OVER MENUNKETESUCK RIVER

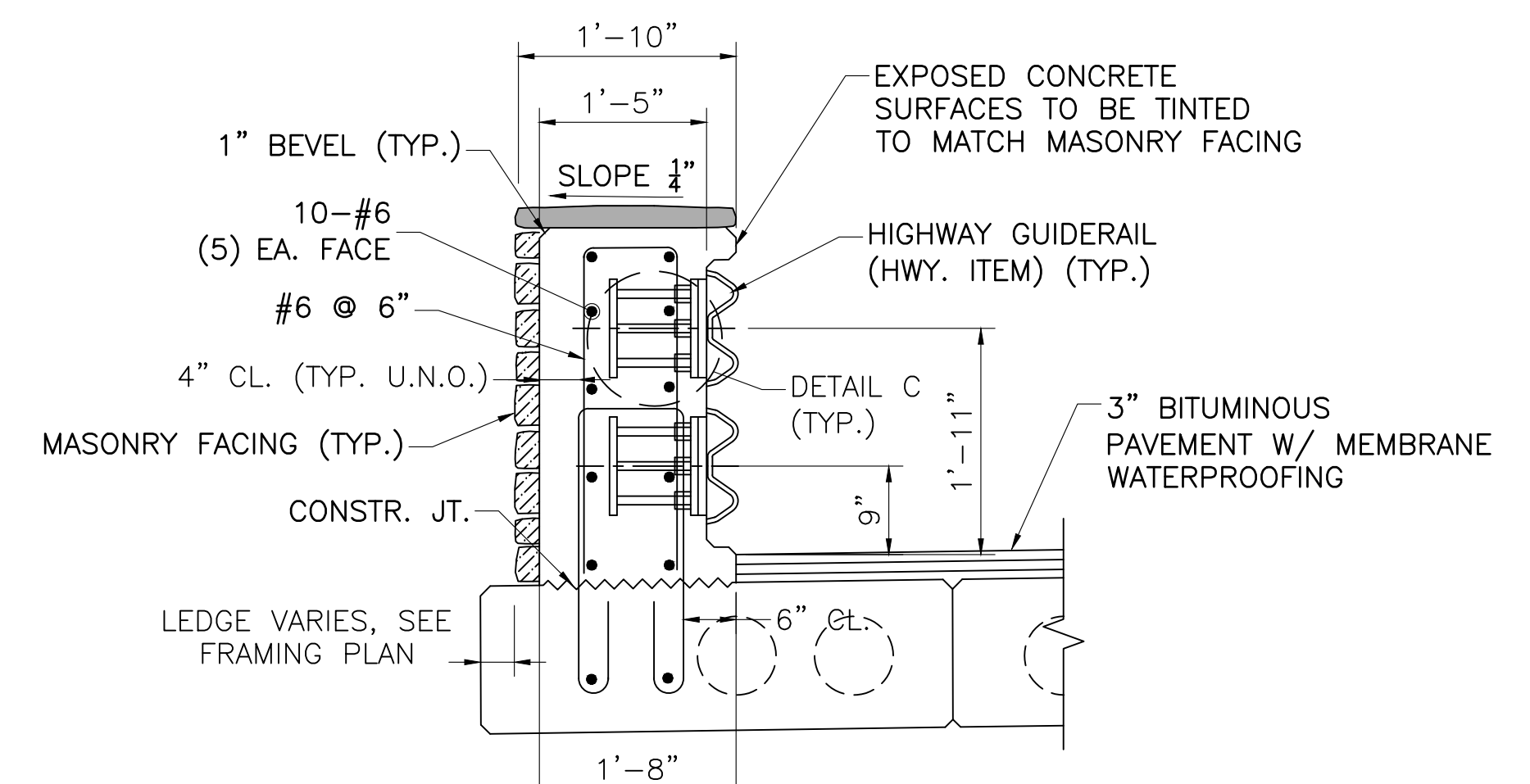
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PLOTTED: FEBRUARY 18, 2020	PROJECT NO.: 9027-4609
	DRAWING NO.: S-12
	SHEET NO.: 16



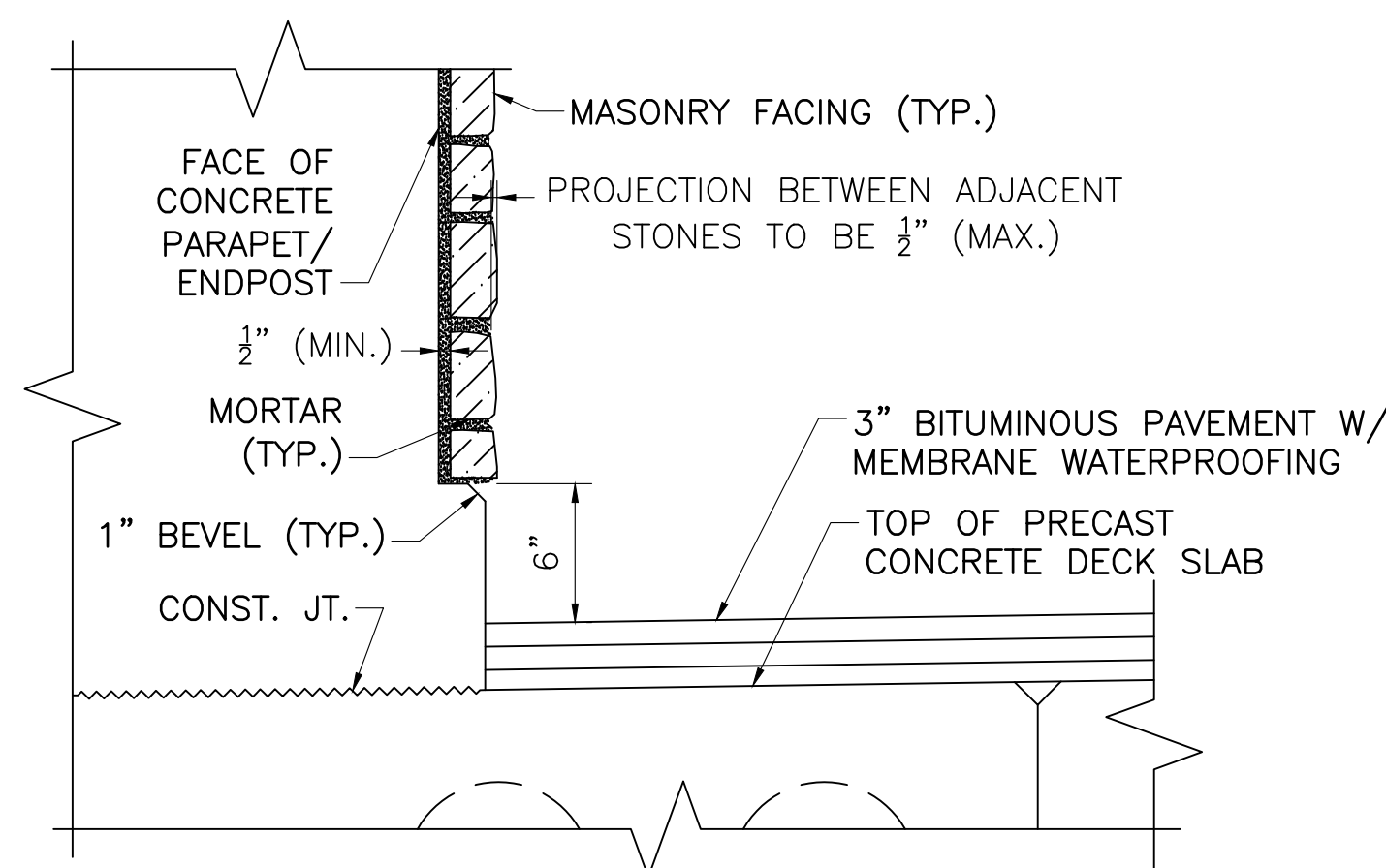
TYPICAL ENDPST ELEVATION
SCALE: 1/2" = 1'-0"



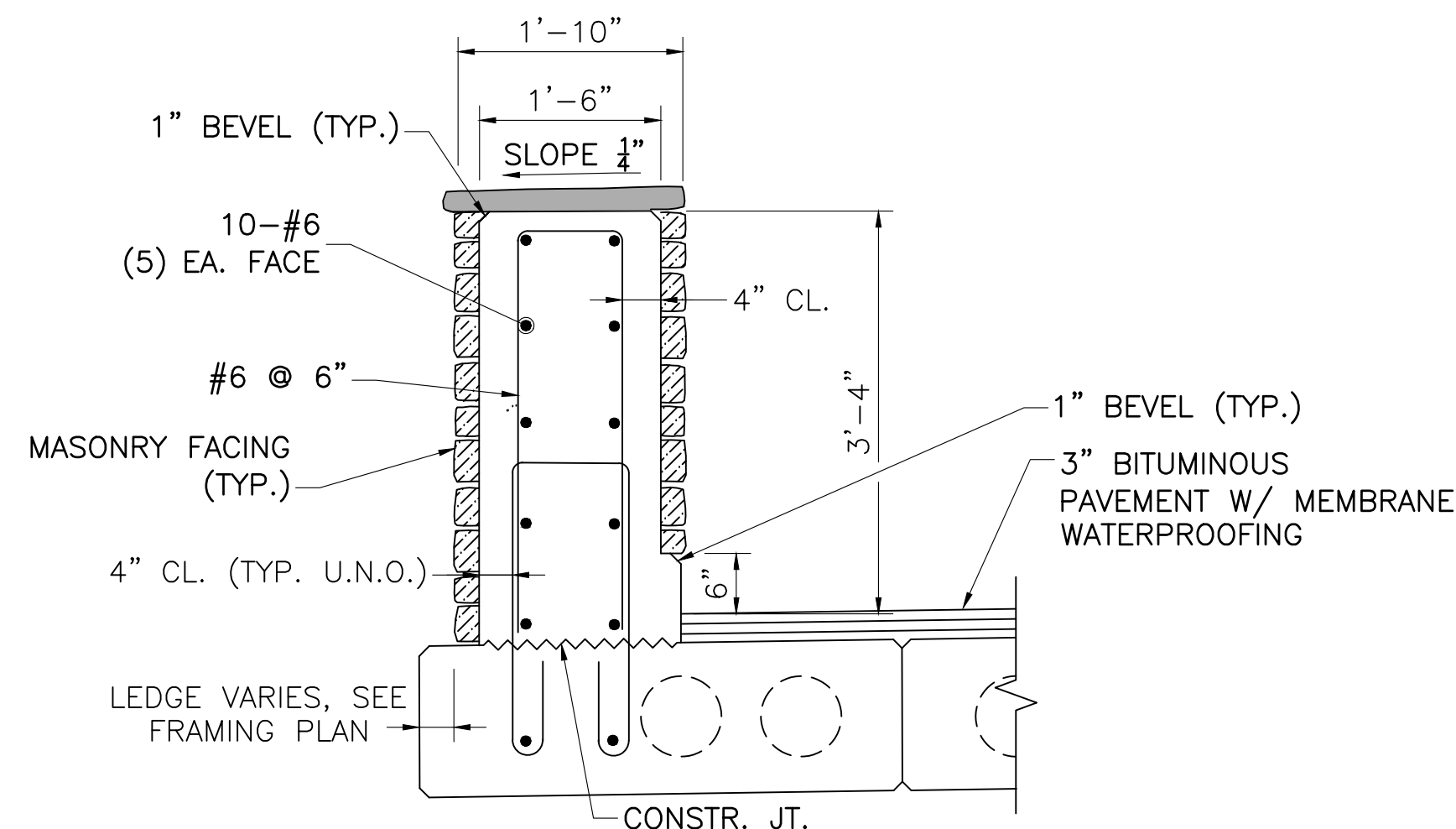
NOTE:
ATTACHMENT OF GRANITE CAP TO PARAPET PER PROVIDERS RECOMMENDATION.
SECTION 1
SCALE: 3/4" = 1'-0"



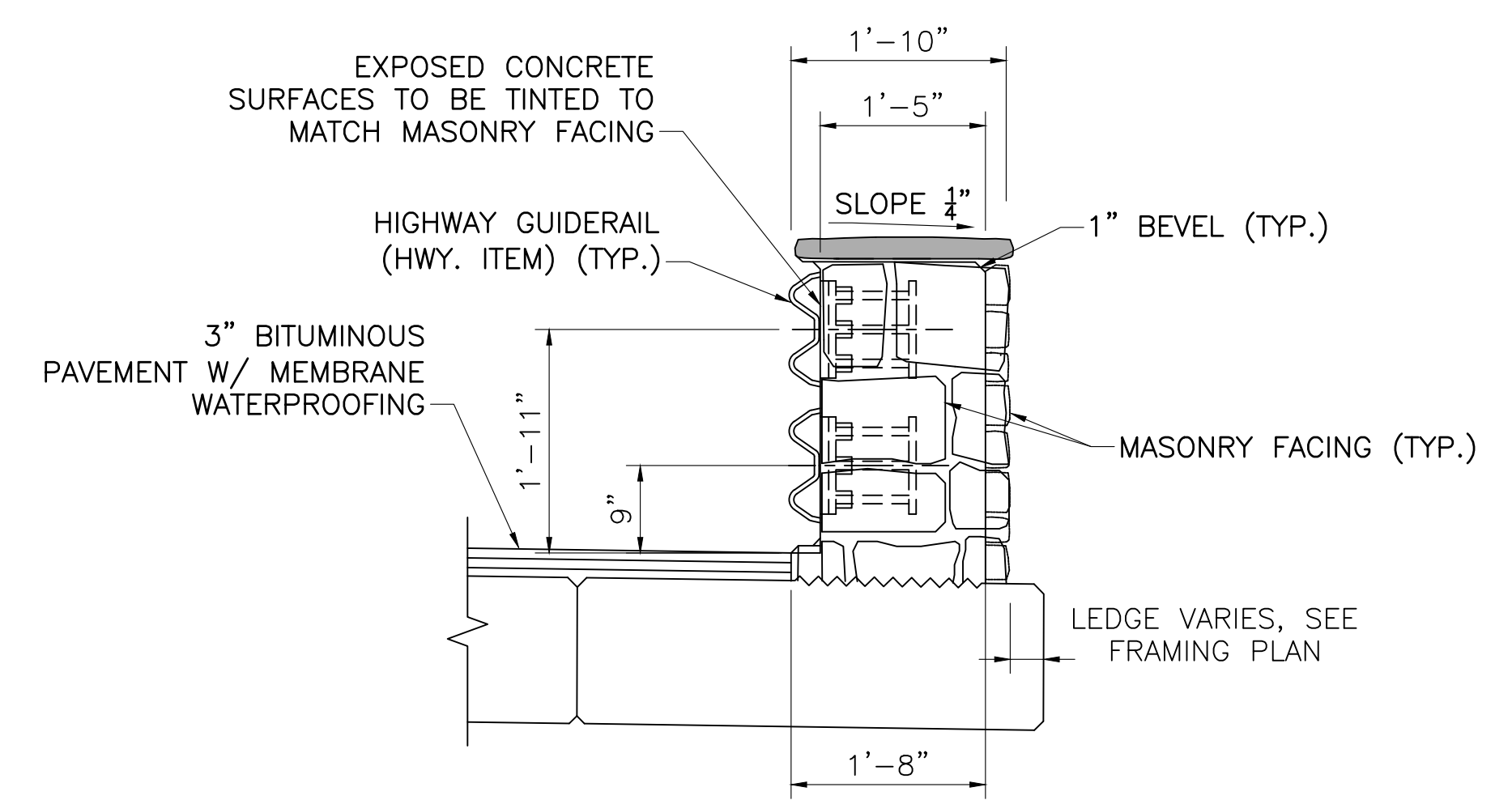
SECTION 3
SCALE: 3/4" = 1'-0"



MASONRY FACING DETAIL
SCALE: 1 1/2" = 1'-0"

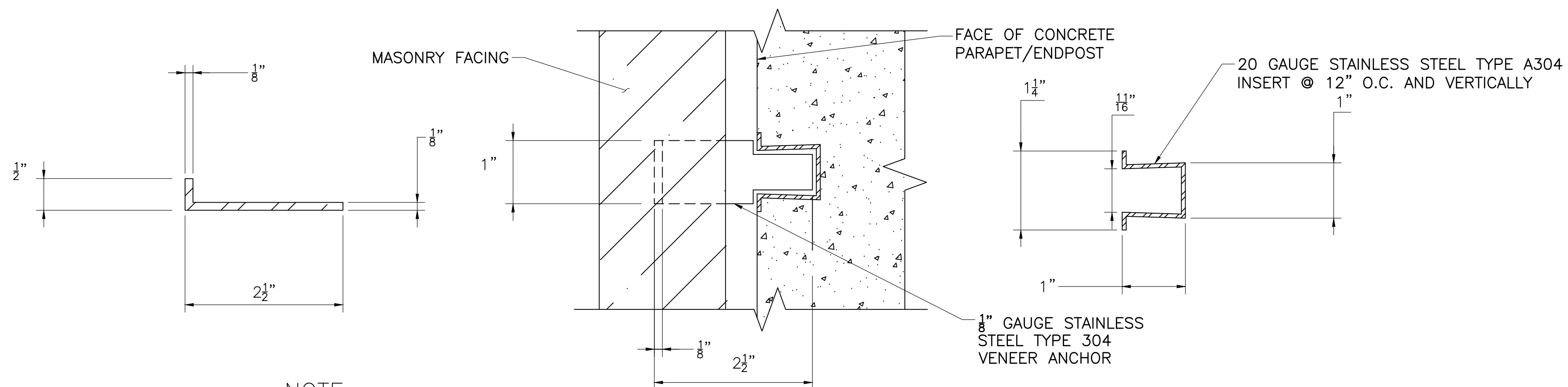


SECTION 2
SCALE: 3/4" = 1'-0"



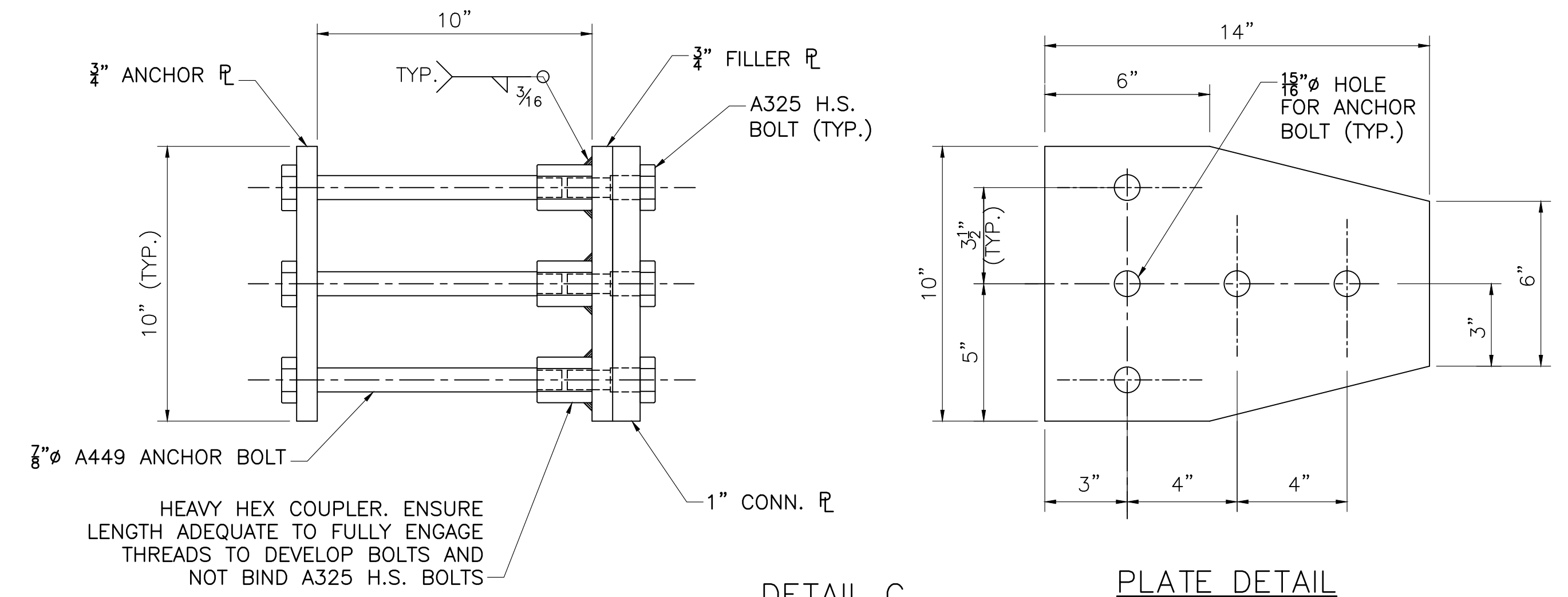
SECTION 4
SCALE: 3/4" = 1'-0"

- ALL HORIZONTAL REINFORCEMENT TO BE CONTINUOUS (NO SPLICES) WITHIN THE FIRST 10'-0" OF EACH END OF PARAPET/ENDPOST.
REINFORCEMENT SPLICE NOTES:
1) THE SPLICE LENGTH (IF NEEDED) FOR THE REINFORCEMENT IN THE PARAPETS TO BE AS FOLLOWS UNLESS DIMENSIONED OTHERWISE
BAR SIZE #6 SPLICE LENGTH = 2'-6"
2) SPLICES LOCATIONS SHALL BE ALTERNATED SO THAT LESS THAN 50% OF THE LONGITUDINAL BARS ARE SPLICED AT THE SAME LOCATION.



NOTE:
THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE ADEQUACY OF THE SUGGESTED MASONRY FACING ATTACHMENT DETAIL BASED ON THE TYPE, SIZE AND COMPOSITION OF THE MASONRY FACING.

SUGGESTED MASONRY FACING ATTACHMENT DETAIL
NOT TO SCALE



HIGHWAY GUIDERAIL CONNECTION NOTES:

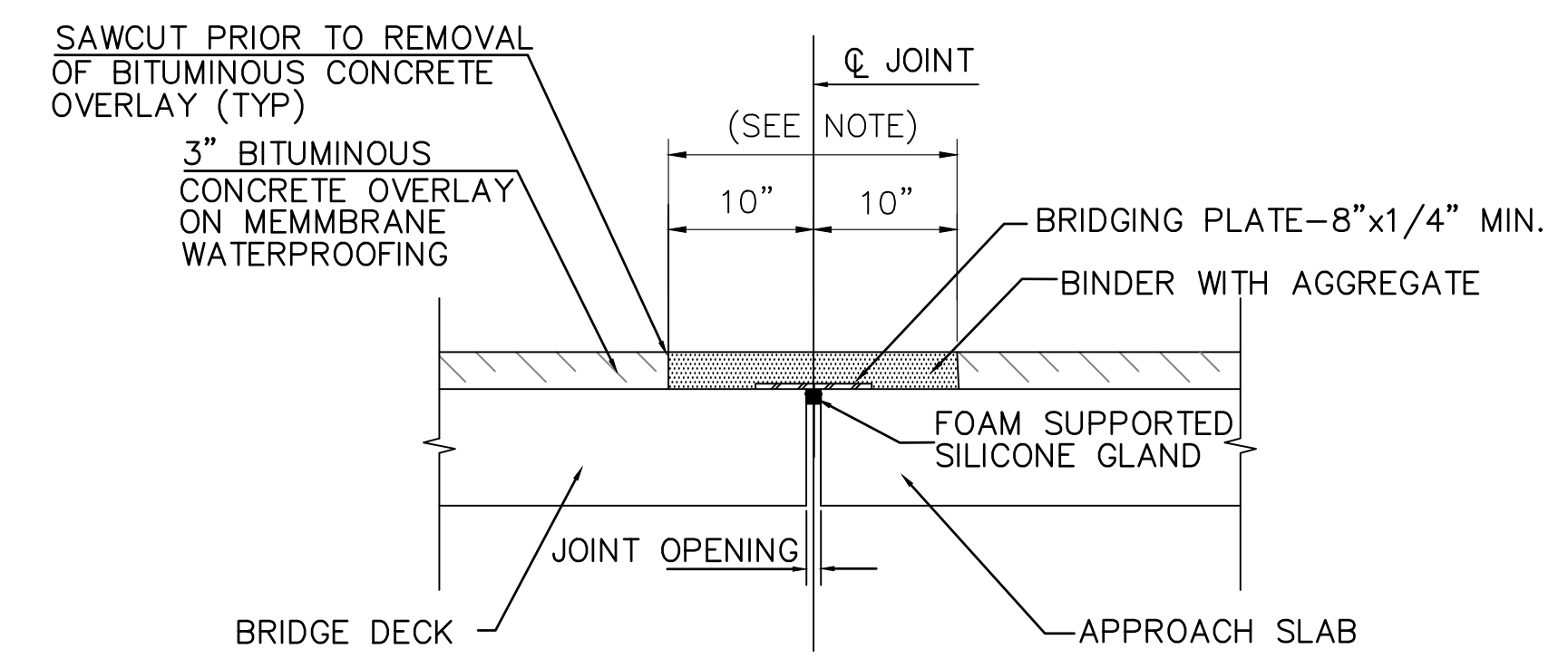
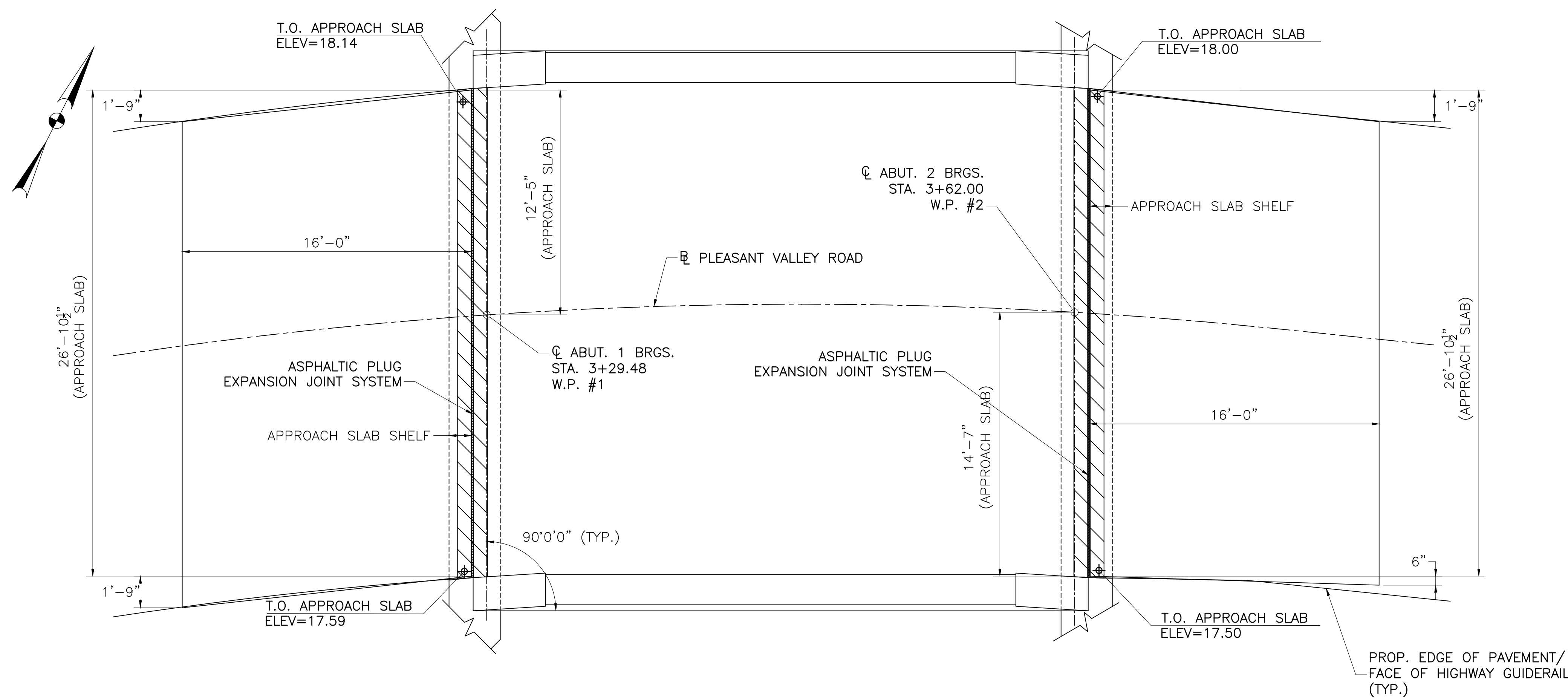
- STRUCTURAL STEEL FOR CONNECTIONS TO BE AASHTO M270 GRADE 50.
- ANCHOR, FILLER AND CONNECTION PLATES, A325 H.S. AND A449 ANCHOR BOLTS AND HEAVY HEX COUPLERS TO BE HOT DIPPED GALVANIZED.
- ANCHORAGE TO BE SET BY TEMPLATE IN FACE OF ENDPST.
- PROTECT THREADS FROM CEMENT PASTE INFILTRATION. WHEN ENDPST IS CAST, CLEAN FAYING SURFACES OF ALL CEMENT LAITANCE AND OTHER DELETERIOUS MATERIAL PRIOR TO ATTACHING GUIDERAIL.
- COST OF GUIDERAIL ATTACHMENT INCLUDED IN COST OF ENDPST.

DETAIL C
SCALE: 3" = 1'-0"

PLATE DETAIL

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 User: jk
 Plot: 2/18/2020 10:15:35

DESIGNER: KJD		TOWN OF CLINTON	 2321 Wilbury Avenue - Hamden Center 8 - Hamden, CT 06518 Ph: 203.234.4200 Fax: 203.234.7974 www.dtcinc.com	PROJECT TITLE: REPLACEMENT OF PLEASANT VALLEY ROAD BRIDGE OVER MENUNKETESUCK RIVER	DRAWING TITLE: BRIDGE ENDPST & PARAPET DETAILS	PROJECT NO.: 9027-4609
DRAFTER: CJW				ENGINEER: DIVERSIFIED TECHNOLOGY CONSULTANTS	CADD: P:\2016\16155 Pleasant Valley Bridge\104\0-Current	SHEET NO.: S-13
CHECKED BY: RLO		APPROVED BY:	DATE:	PLOTTED: FEBRUARY 18, 2020		SHEET NO.: 17
REV.	DATE	DESCRIPTION	SHT. NO.			

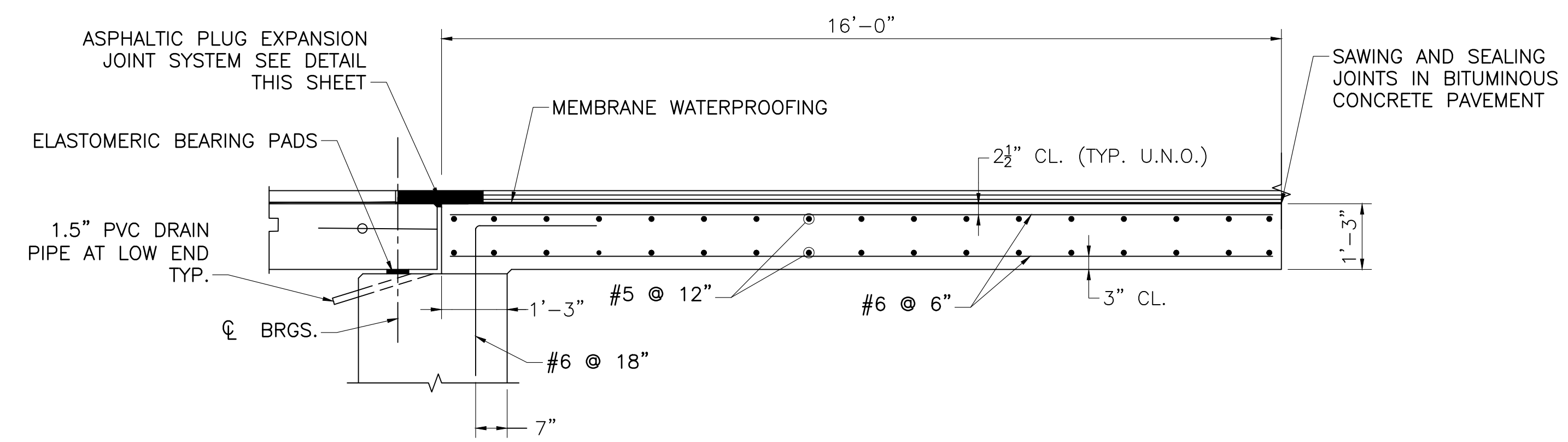


NOTE: REMOVE NEW BITUMINOUS CONCRETE OVERLAY AND MEMBRANE WATERPROOFING. REPLACE WITH ASPHALTIC PLUG EXPANSION SYSTEM. TO BE PAID FOR UNDER THE ITEM "ASPHALTIC PLUG EXPANSION JOINT SYSTEM" (SEE SPEC. PROV.)

ASPHALTIC PLUG EXPANSION JOINT SYSTEM
SCALE: N.T.S

ASPHALTIC PLUG EXPANSION JOINT SYSTEM NOTES

1. A BRIDGING PLATE SHALL BE USED TO SPAN THE GAP BETWEEN TWO DECK ENDS OR THE JOINT BETWEEN A DECK END AND A CONCRETE APPROACH SLAB.
2. DISCONTINUE THE INSTALLATION OF THE BRIDGING PLATE WHERE THE APPROACH SLAB IS DISCONTINUED (TYPICALLY IN THE ROADWAY SHOULDERS.) SEE "ASPHALTIC PLUG EXPANSION JOINT SYSTEM" SPECIAL PROVISIONS.
3. INSTALLATION OF MEMBRANE WITHIN THE LIMITS SHOWN TO BE PAID UNDER THE ITEM "MEMBRANE WATERPROOFING" AND SHALL BE PLACED PRIOR TO PLACEMENT OF PAVEMENT.
4. THE FURNISHING AND PLACING OF SUPERPAVE HMA S0.5 AND SUPERPAVE HMA S0.25 TO BE INCLUDED FOR PAYMENT UNDER THE ITEMS "HMA S0.5" AND "HMA S0.25", RESPECTIVELY.
5. SAW-CUTTING AND REMOVAL OF PAVEMENT FOR JOINT INSTALLATION TO BE INCLUDED UNDER THE ITEM "ASPHALTIC PLUG EXPANSION JOINT SYSTEM".
6. INSTALLATION OF FOAM SUPPORTED SILICONE GLAND TO BE PAID UNDER THE ITEM "ASPHALTIC PLUG EXPANSION JOINT SYSTEM".
7. ASPHALTIC PLUG EXPANSION JOINT SYSTEMS MAY BE INSTALLED ONLY WITHIN THE TEMPERATURE RANGE SPECIFIED IN THE SPECIAL PROVISION "ASPHALTIC PLUG EXPANSION JOINT SYSTEM".
8. THE DEPTH OF PROPOSED ASPHALTIC PLUG JOINT IS ESTIMATED TO BE 3 INCHES.
9. INSTALL CRACK SEAL AT CURB LINE ALONG THE LENGTH OF THE BRIDGE, BOTH SIDES. TAKE NECESSARY PRECAUTION TO KEEP CRACK SEAL OFF OF VERTICAL CURB SURFACE. CRACK SEALING SHALL BE INCLUDED FOR PAYMENT UNDER THE ITEM "JOINT AND CRACK SEALING OF BITUMINOUS CONCRETE PAVEMENT".



SECTION
SCALE: 1/4" = 1'-0"
APPROACH SLAB DETAILS
ALL REINFORCING IS TO BE HOT DIP GALVANIZED AFTER SHEARING AND BENDING.

BITUMINOUS CONCRETE PLACEMENT AT ASPHALTIC PLUG JOINTS (APJ)

1. THE REQUIREMENTS OF SPECIAL PROVISION SECTION 4.06 SHALL BE MET EXCEPT IN LIEU OF DENSITY TESTING, THE METHODS DESCRIBED BELOW SHALL BE FOLLOWED TO ASSURE PROPER COMPACTION.
2. TOP LIFT MUST BE UNIFORM THICKNESS; INTERMEDIATE LIFTS CAN BE PLACED AT 1 1/4" TO 2 1/2" COMPACTED.
3. REQUIREMENTS FOR PROPER COMPACTION:
 - A. MINIMUM 265 DEGREES F DELIVERY TEMPERATURE OF MATERIAL. PLACE AND SPREAD MATERIAL BEFORE IT COOLS TO 260 DEGREES F. MATERIAL BELOW TEMPERATURE WILL BE REJECTED.
 - B. COMPACT NON-SURFACE LIFTS WITH VIBRATORY PLATE COMPACTOR MEETING THE FOLLOWING REQUIREMENTS:
 - i. DESIGNED TO COMPACT ASPHALT.
 - ii. EQUIPPED WITH A WATER TANK.
 - iii. CENTRIFUGAL FORCE 3200 LBS TO 6000 LBS.
 - iv. WEIGHS MINIMUM 160 LBS (WITHOUT WATER).
 - v. MINIMUM 4400 VIBRATIONS PER MINUTE.
 - C. COMPACT TOP LIFT WITH 3 1/2" TO 4 1/2" TON DOUBLE DRUM ROLLER, DESIGNED TO COMPACT BITUMINOUS CONCRETE.
 - D. PROVIDE NUMBER OF PASSES BASED ON LIFT THICKNESS AS FOLLOWS:

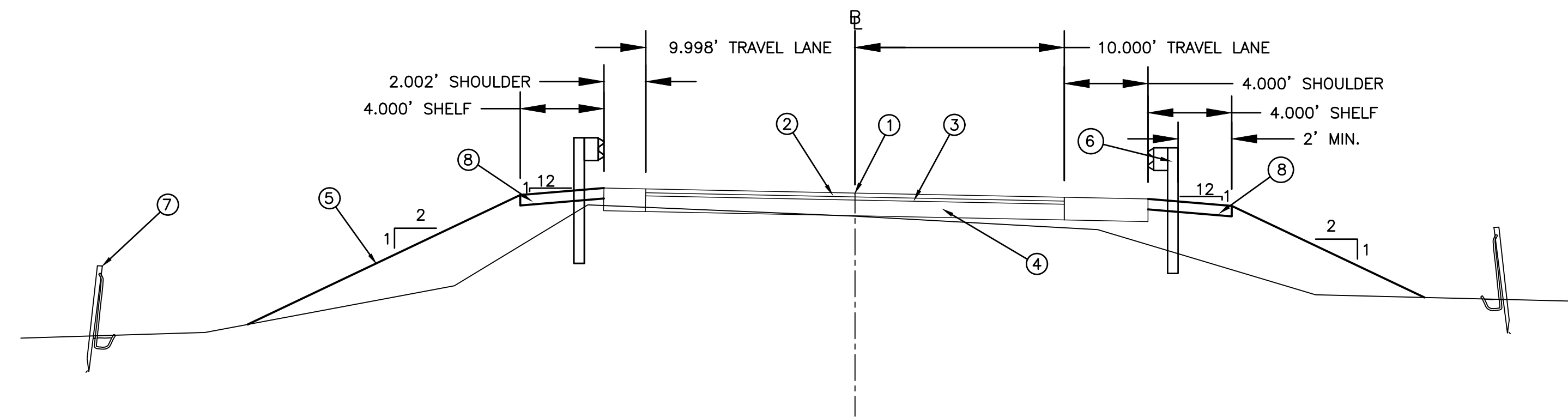
LIFT THICKNESS (INCHES)	NUMBER OF PASSES
1 1/4" TO 1 1/2"	8
1 1/2" TO 2"	10
2" TO 2 1/2"	12
 - E. ADDITIONAL COMPACTION EQUIPMENT MAY BE REQUIRED TO COMPLETE LIFT COMPACTION BEFORE MATERIAL COOLS TO 180 DEGREES F.
 - F. AT CORNERS OR OTHER AREAS INACCESSIBLE TO PLATE TAMPER, HAND TAMP 20 TIMES MINIMUM BEFORE MATERIAL COOLS TO 180 DEGREES F.
4. ALTERNATE EQUIPMENT MAY BE REQUESTED AS A SUPPLEMENT TO CONTRACTOR'S QC PLAN. THE EQUIPMENT AND PROCEDURES MUST BE APPROVED BY THE ENGINEER PRIOR TO USE.
5. IF THESE METHODS ARE NOT PERFORMED TO THE SATISFACTION OF THE ENGINEER, DENSITY VERIFICATION MAY BE REQUIRED WHEREIN THE CONTRACTOR SHALL PROVIDE DENSITY TESTING WITH A QC NUCLEAR DENSITY GAUGE OR COLLECT CORE SAMPLES AS SPECIFIED IN SECTION 4.06.

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DESIGNER: KJD		TOWN OF CLINTON		PROJECT TITLE:	DRAWING TITLE:	PROJECT NO.:
DRAFTER: CJW				REPLACEMENT OF PLEASANT VALLEY ROAD BRIDGE OVER MENUNKETESUCK RIVER	SUPERSTRUCTURE DETAILS	9027-4609
CHECKED BY: RLO		ENGINEER: DIVERSIFIED TECHNOLOGY CONSULTANTS	CADD: P:\2016\16155 Pleasant Valley Bridge\104\0-Current		DRAWING NO.:	S-14
DATE CHECKED: 02/17/2020		APPROVED BY:	DATE:	PLOTTED: FEBRUARY 18, 2020	SHEET NO.:	18
REV.	DATE	DESCRIPTION	SHT. NO.			

GENERAL NOTES

- BOUNDARY AND TOPOGRAPHIC SURVEY DATED 12/19/2016 WAS PERFORMED BY MARTIN SURVEY & ASSOCIATES UTILIZING THE CONNECTICUT GRID SYSTEM NAD 83. ALL ELEVATIONS REFER TO NAVD 1988 DATUM.
- THE LOCATION OF EXISTING UTILITIES AS SHOWN ARE FROM MAPS OF UTILITY COMPANIES, FIELD SURVEYS, AND THE BEST AVAILABLE INFORMATION. THEY MUST BE CONSIDERED AS ONLY APPROXIMATE BOTH AS TO SIZE AND LOCATION, AND ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL FIELD LOCATIONS. LOCATIONS OF CRITICAL UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD BY TEST PITS.
- ALL DIMENSIONS AND ELEVATIONS MUST BE FIELD VERIFIED BY THE CONTRACTOR.
- ALL EXISTING UTILITY SERVICES SHALL BE PROTECTED AND MAINTAINED IN SERVICE. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL UTILITY RELOCATION'S WITH THE RESPECTIVE SERVICE PROVIDER.
- UTILITY POLES ARE TO BE RELOCATED BY THEIR OWNERS AS REQUIRED BY AND DURING CONSTRUCTION COORDINATED BY THE CONTRACTOR.
- THE CONTRACTOR MUST CALL "CALL BEFORE YOU DIG" AT LEAST 72 HOURS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. (1-800-922-4455).
- SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL CONFORM TO THE STATE OF CONNECTICUT DEEP, "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL."
- ALL EXISTING FEATURES ARE DRAWN AS SCREENED LINES, AND PROPOSED FEATURES ARE SHOWN AS DARK LINES.
- ALL CONSTRUCTION IN THE TOWN OF CLINTON R.O.W. SHALL BE IN ACCORDANCE WITH THE CITY STANDARDS & SPECIFICATIONS FOR ROAD CONSTRUCTION UNLESS OTHERWISE NOTED.
- WITHIN THE PROJECT LIMITS, PROTECT ALL IRON PINS OR MONUMENT PROPERTY LINE MARKERS.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE PROPER IMPLEMENTATION OF THE SEDIMENT AND EROSION CONTROLS AS SHOWN ON THE PLANS AND SHALL INCLUDE BUT NOT BE LIMITED TO INSTALLATION AND MAINTENANCE OF CONTROL MEASURES, INFORMING ALL PARTIES OF SUCH REQUIREMENTS AND NOTIFICATION OF ANY TRANSFER OF RESPONSIBILITY.
- THE GENERAL CONTRACTOR MUST MAINTAIN (REPAIR/REPLACE WHEN NECESSARY) THE SILTATION CONTROL UNTIL ALL REGULATED ACTIVITY IS COMPLETED AND ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED.
- A STORMWATER MANAGEMENT SYSTEM MAINTENANCE SCHEDULE SHALL BE IMPLEMENTED AND OFFICIALLY RECORDED BY THE SITE MONITOR. THE SCHEDULE SHALL INCLUDE AS A MINIMUM:
 - ALL ELEMENTS OF THE STORMWATER MANAGEMENT SYSTEM SHALL BE INSPECTED MONTHLY.
 - MONTHLY INSPECTION OF ALL STORMWATER STRUCTURES AND OUTFALLS SHALL BE CONDUCTED FOR FLOATING OR SURFACE DEBRIS OR SEDIMENT.
 - STRUCTURES AND OUTFALLS SHALL BE CLEANED OF SEDIMENT AND DEBRIS AT LEAST ONCE A YEAR DURING THE MONTH OF APRIL AND AT OTHER TIMES AS NECESSARY TO PREVENT THE DISCHARGE OF POLLUTANTS FROM STRUCTURES OR OUTFALLS.
- BEFORE ANTICIPATED STORM EVENTS, A MINIMUM OF ONCE PER WEEK, AND WITHIN 24 HOURS OF A STORM EVENT 0.5 INCHES OR GREATER, THE SITE MONITOR SHALL INSPECT ALL EROSION AND SEDIMENT CONTROLS. THE SITE CONTRACTOR IS TO REPAIR, REPLENISH OR REPLACEMENT OF EROSION CONTROLS AS DIRECTED BY THE SITE MONITOR IN ADVANCE OF THE ANTICIPATED STORM EVENT.
- ACTUAL LOCATIONS AND APPLICATIONS OF EROSION CONTROL DEVICES SHALL BE DETERMINED IN THE FIELD PRIOR TO THE START OF CONSTRUCTION BASED ON THE EROSION AND SEDIMENT CONTROL STRATEGY. THE STRATEGY WILL REQUIRE THE CONTRACTOR TO FOLLOW THE GENERAL SEQUENCE OF CONSTRUCTION, PROVIDE APPROPRIATE CONTROLS SUCH AS STRUCTURAL PRACTICES, MAINTENANCE, AND STABILIZATION PRACTICES ALONG WITH THE PROPER DISCHARGE OF DEWATERING WASTEWATERS. THE CONTRACTOR MUST FOLLOW THE GENERAL PERMIT FOR THE DISCHARGE OF STORMWATER AND DEWATERING WASTEWATERS ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
- DEWATERING PROCEDURES SHALL BE CONDUCTED IN A MANNER THAT INSURES NO DEWATERING WASTE WATER IS DIRECTLY DISCHARGED INTO ANY WETLAND OR WATERBODY. DEWATERING WASTEWATERS MUST BE DISCHARGED IN A MANNER WHICH WILL NOT CAUSE EROSION AND SCOURING OR CONTAIN SUSPENDED SOLIDS IN AMOUNTS WHICH COULD REASONABLY BE EXPECTED TO CAUSE POLLUTION OF THE WATERS OF THE STATE. THE MEASURES SHALL BE CONDUCTED IN ACCORDANCE WITH THE DEWATERING PLAN SUBMITTED BY THE CONTRACTOR AS PART OF THE CONTRACT DOCUMENTS. DEWATERING WASTEWATERS SHALL BE DISCHARGED IN A MANNER TO MINIMIZE THE DISCOLORATION OF THE RECEIVING WATERS. UNLESS OTHERWISE SPECIFICALLY APPROVED BY THE CONNECTICUT DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION, OFFICE OF THE COMMISSIONER.
- ALL FILL PLACEMENT AND EMBANKMENT CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF CONNECTICUT DOT FORM 817, SECTION 2.02.03-5, PLACEMENT OF EMBANKMENT MATERIAL, PARAGRAPH 15, "WHEN THE EMBANKMENT CONSISTS PREDOMINANTLY OF ROCK FRAGMENTS...SHALL BE FILLED WITH SPALLS, FINER FRAGMENTS OR EARTH TO FORM A SOLID, COMPACT MASS.
- TEMPORARY CONSTRUCTION SIGNING AND SITE ACCESS WILL BE DETERMINED AT A PRE-CONSTRUCTION MEETING WITH THE ENGINEER, REPRESENTATIVE FROM THE TOWN OF CLINTON PUBLIC WORKS, AND THE CLINTON POLICE/FIRE DEPARTMENT
- GEOTECHNICAL INVESTIGATIONS WAS PERFORMED BY WELTI ASSOCIATES. FINDINGS ARE SUMMARIZED IN THE REPORT DATED FEBRUARY 08, 2017. FINDINGS ARE AVAILABLE FOR REVIEW AT THE OFFICE OF THE ENGINEER.
- BOULDERS MAY NOT BE USED IN FILL AREAS UNLESS PROCESSED TO A SIZE OF 8 INCHES OR LESS AS RECOMMENDED IN THE GEOTECHNICAL REPORT.



TYPICAL SECTION

STA.1+00 TO STA. 3+12.50±(BEGIN APPROACH SLAB)
STA. 3+78.90± (END APPROACH SLAB) TO STA. 4+81.45

- * SEE SUPER ELEVATION CHART FOR CROSS SLOPES
- * SHOULDER CROSS SLOPE TO MATCH LANE

LEGEND

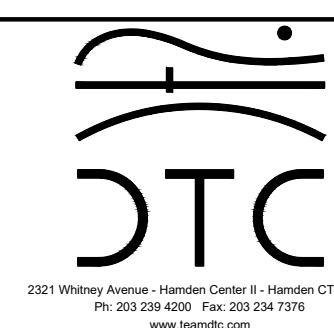
- POINT OF APPLICATION OF GRADE
- 2" BITUMINOUS HMA S0.5
- 2" BITUMINOUS HMA S1
- 10" PROCESSED AGGREGATE SUBBASE, 18" SUBBASE IN ROCK
- TURF ESTABLISHMENT
- METAL BEAM RAIL TYPE R-B MASH
- SEDIMENTATION CONTROL SYSTEM
- 6" PROCESSED AGGREGATE

REV.	DATE	DESCRIPTION	SHT. NO.

DESIGNER: JAB
DRAFTER: CJS
CHECKED BY: SRL
DATE CHECKED: 2/17/2020

TOWN OF CLINTON

ENGINEER: DIVERSIFIED TECHNOLOGY CONSULTANTS	APPROVED BY:	DATE:
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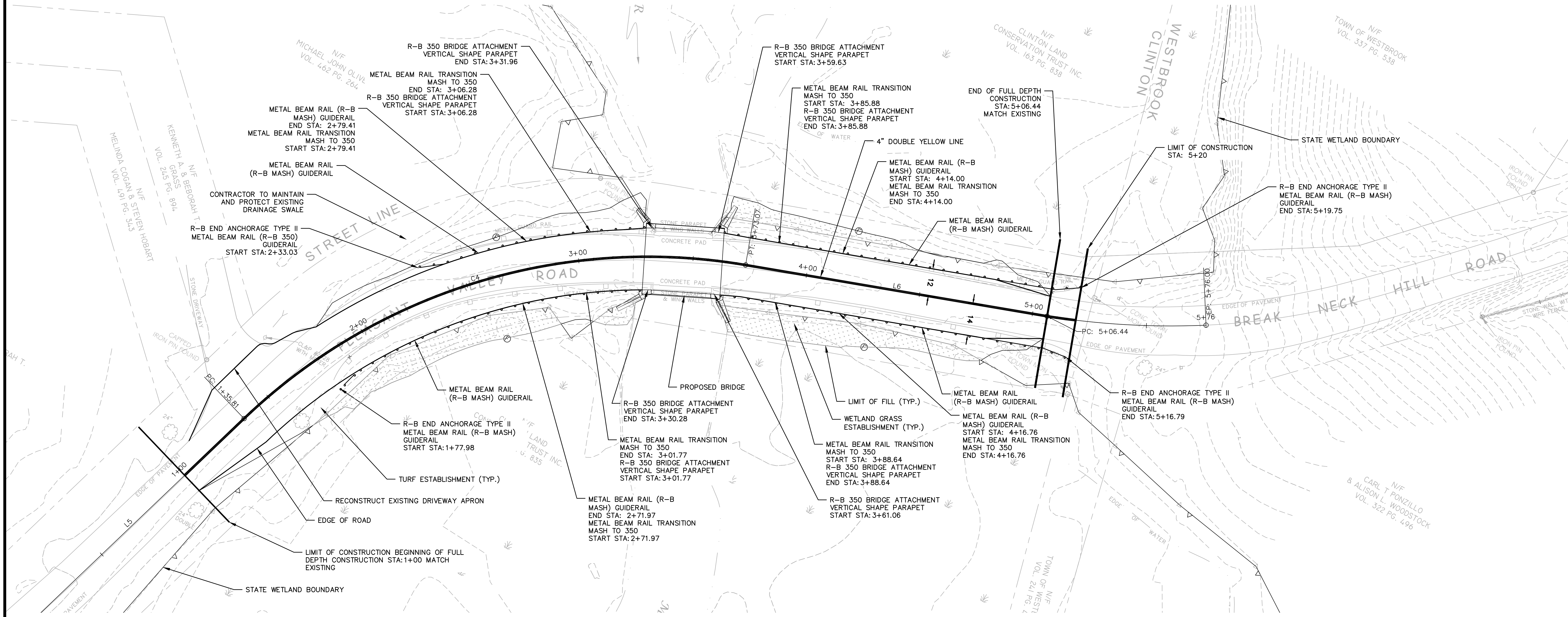
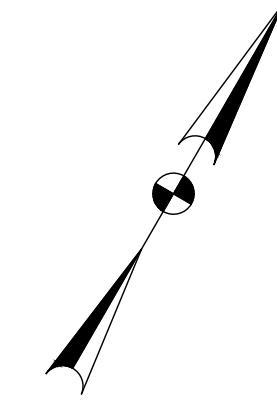


PROJECT TITLE: REPLACEMENT OF PLEASANT VALLEY ROAD BRIDGE OVER MENUNKETESUCK RIVER
CADD: P:\2016\16155 Pleasant Valley Bridge\106\0-Current
PLOTTED: FEBRUARY 18, 2020

DRAWING TITLE: TYPICAL SECTION

PROJECT NO.: 9027-4609
DRAWING NO.: TS-1
SHEET NO.: 19

ALIGNMENT					
Number	Radius	Length	Line/Chord Direction	DELTA ANGLE	TANGENT
L5		135.81	N16° 19' 53.68"E		
C4	255.00	237.25	N42° 59' 08.45"E	53.31	128.00
L6		133.38	N69° 38' 23.22"E		

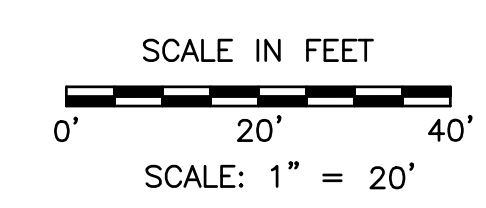


- NOTES:
1. DISTURBED AREAS TO BE RESTORED UNDER ITEM TURF ESTABLISHMENT AND WETLAND ESTABLISHMENT
 2. THE CONTRACTOR MAY NOT IMPACT REGULATED AREAS WETLANDS, FLOODWAY 100 YEAR FLOOD LIMITS BEYOND THAT WHICH IS SHOWN ON THE PLANS.

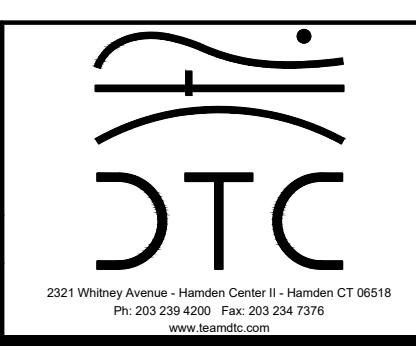
LEGEND

WETLAND GRASS ESTABLISHMENT

REV.	DATE	DESCRIPTION	SHT. NO.



DESIGNER: JAB	TOWN OF CLINTON
DRAFTER: CJS	
CHECKED BY: SRL	ENGINEER: DIVERSIFIED TECHNOLOGY CONSULTANTS
DATE CHECKED: 2/17/2020	APPROVED BY: _____ DATE: _____

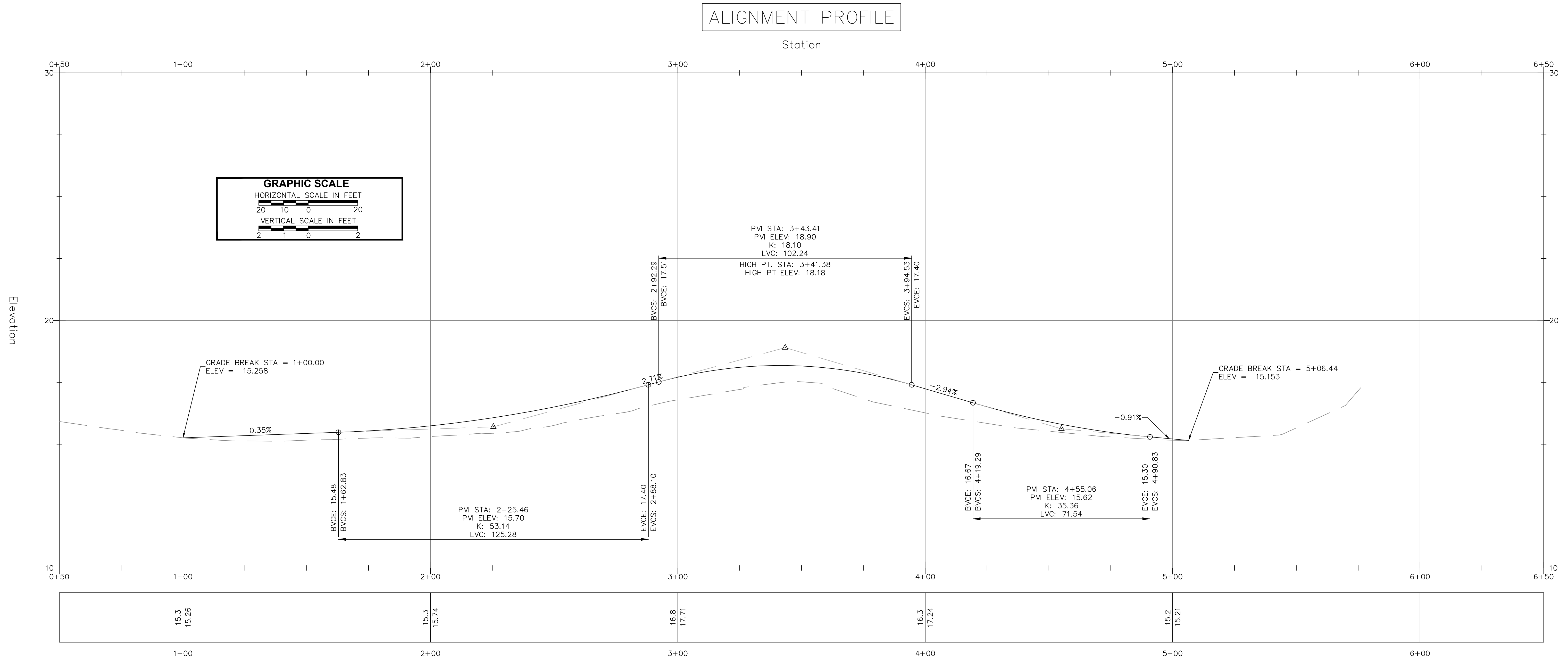
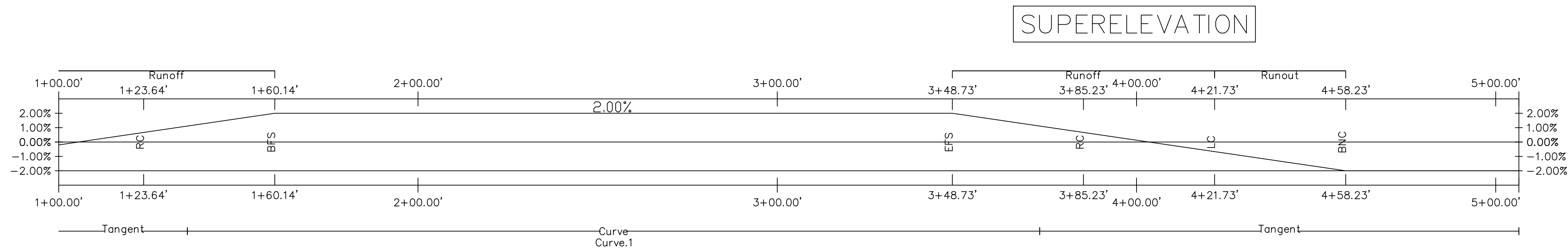


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PLOTTED: FEBRUARY 18, 2020

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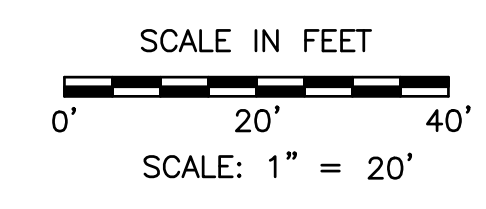
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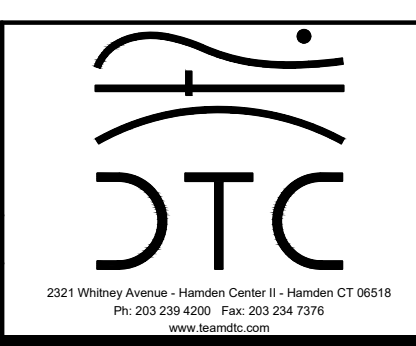
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TOWN OF CLINTON

ENGINEER: DIVERSIFIED TECHNOLOGY CONSULTANTS
 APPROVED BY: _____ DATE: _____



PROJECT TITLE:
REPLACEMENT OF PLEASANT VALLEY ROAD BRIDGE OVER MENUNKETESUCK RIVER

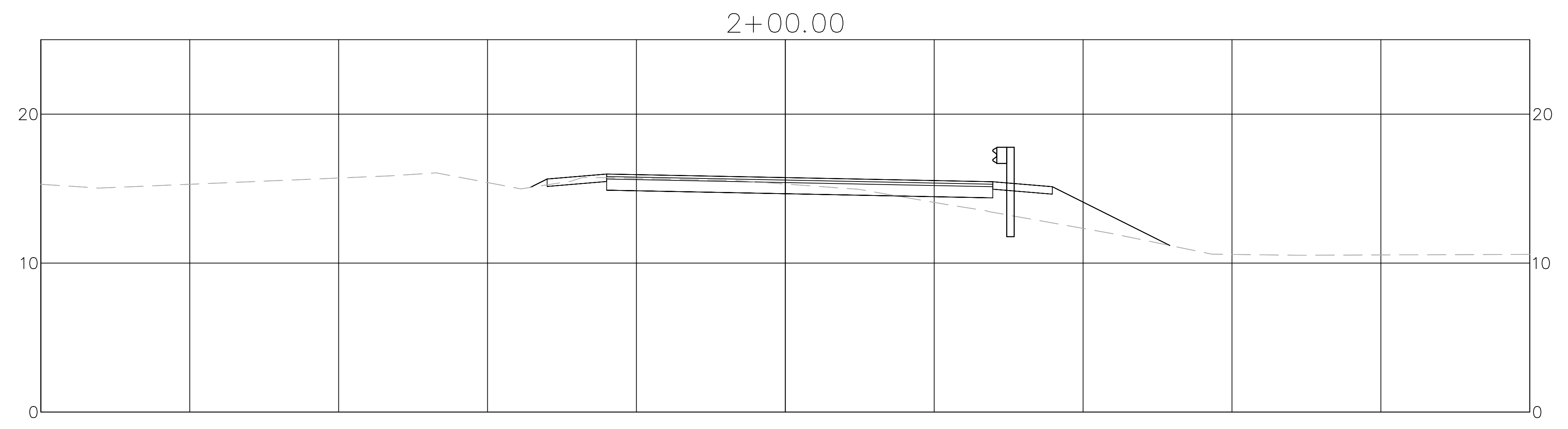
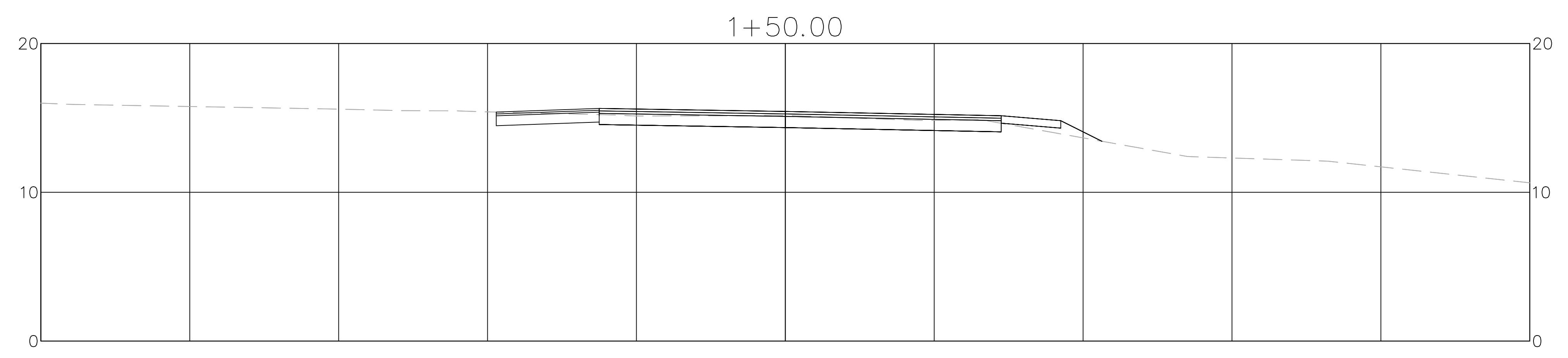
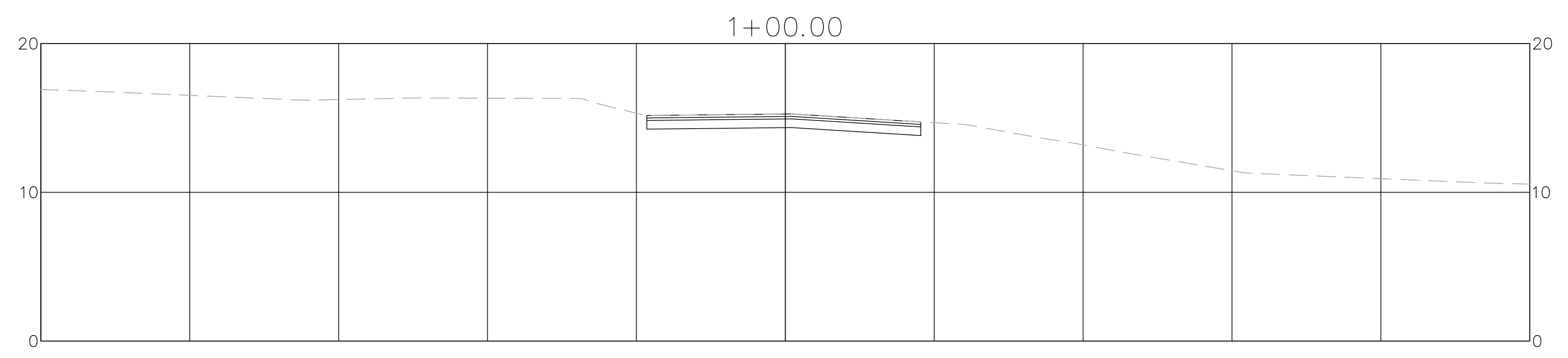
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9027-4609

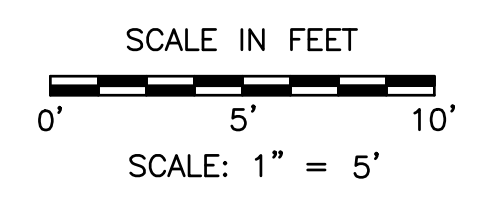
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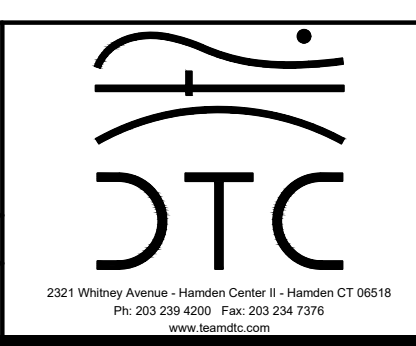
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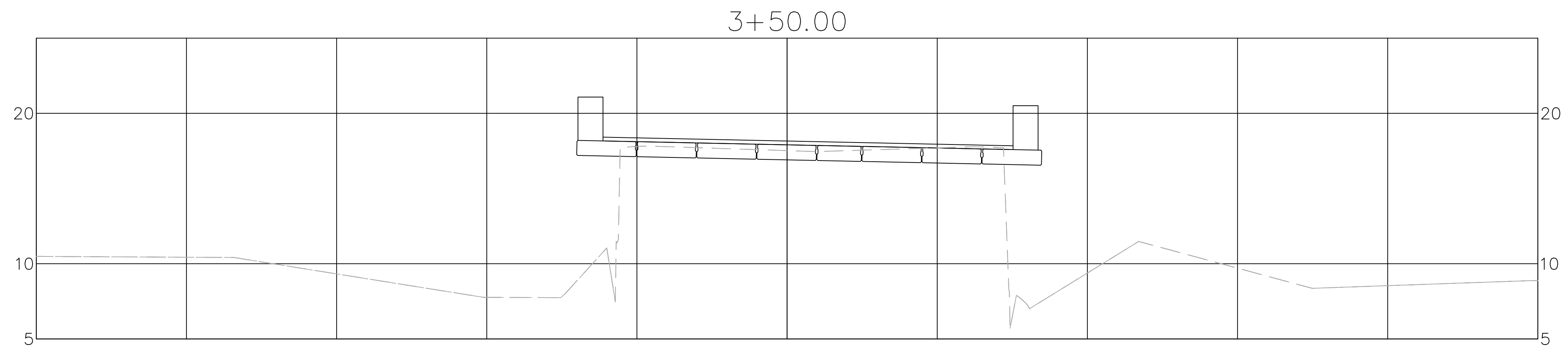
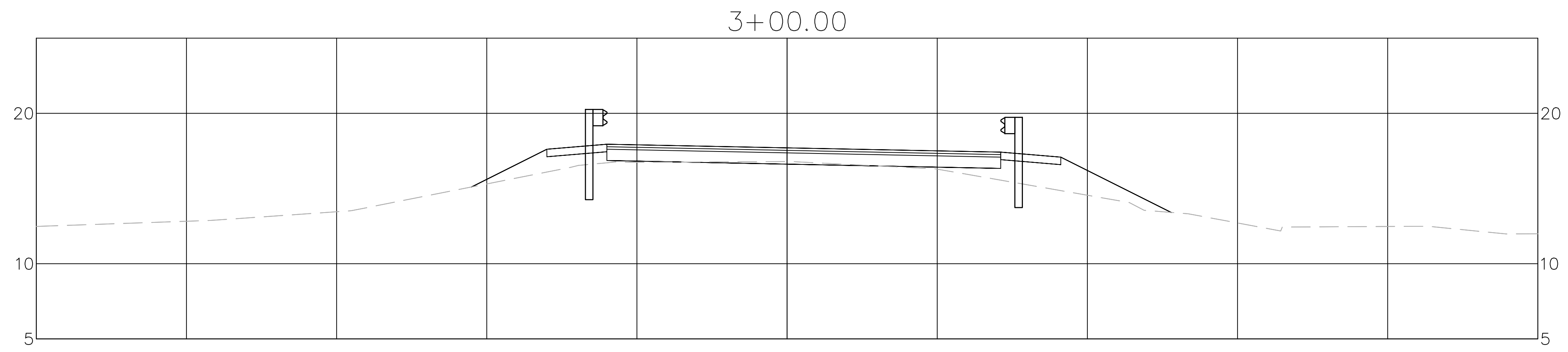
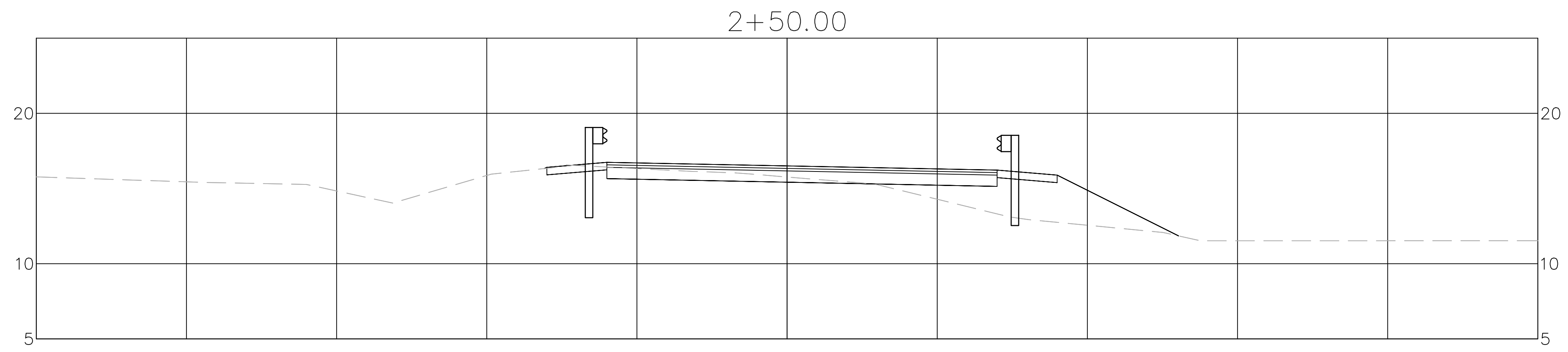
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PROJECT TITLE:
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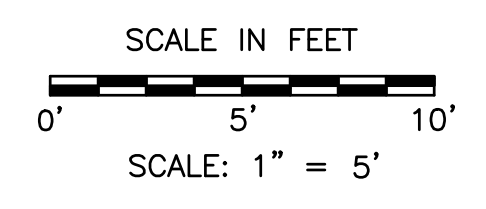
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 SHEET NO.: 22



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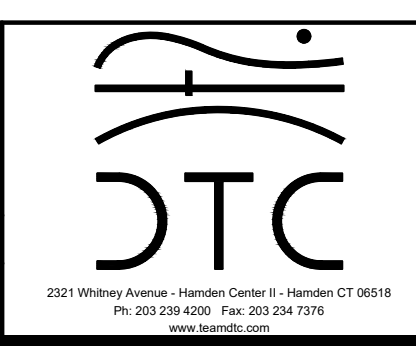
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TOWN OF CLINTON

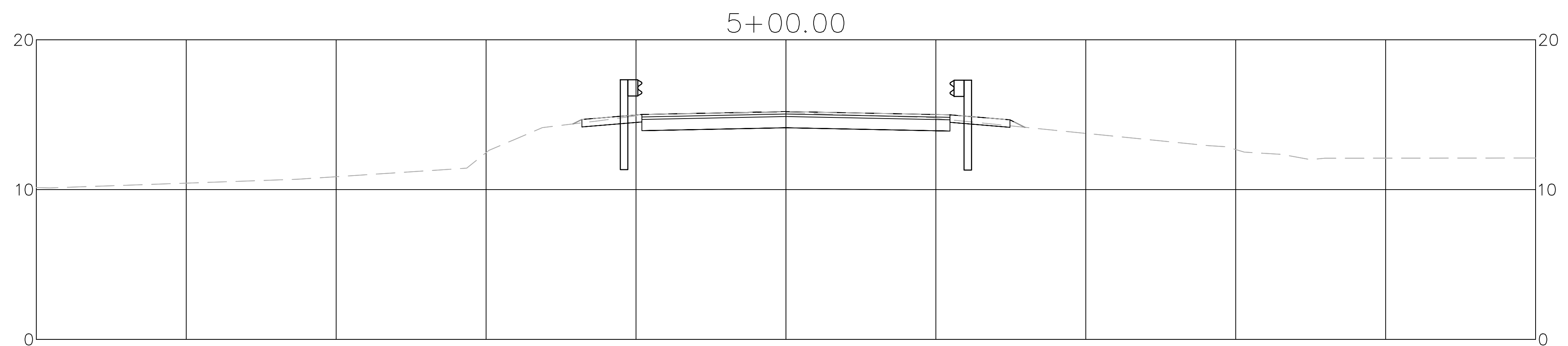
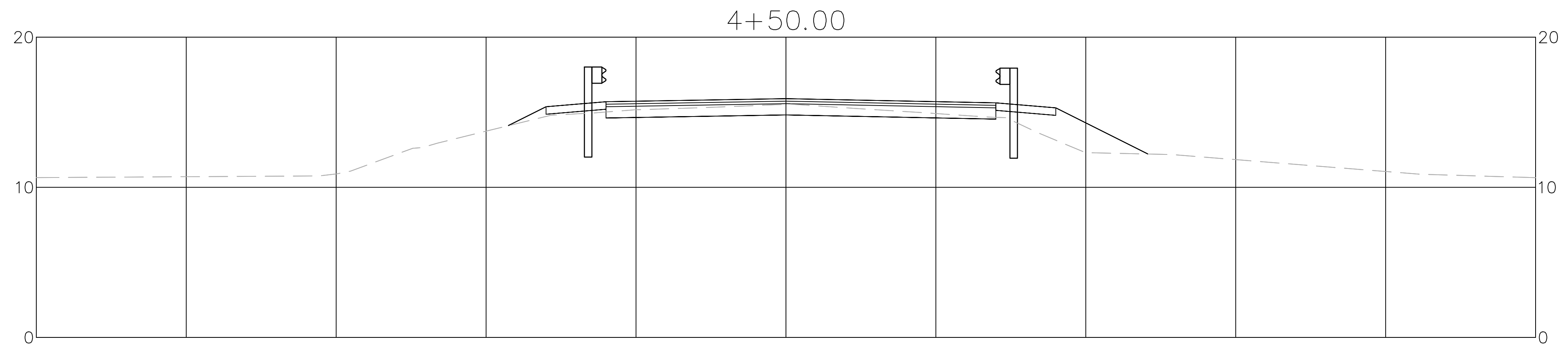
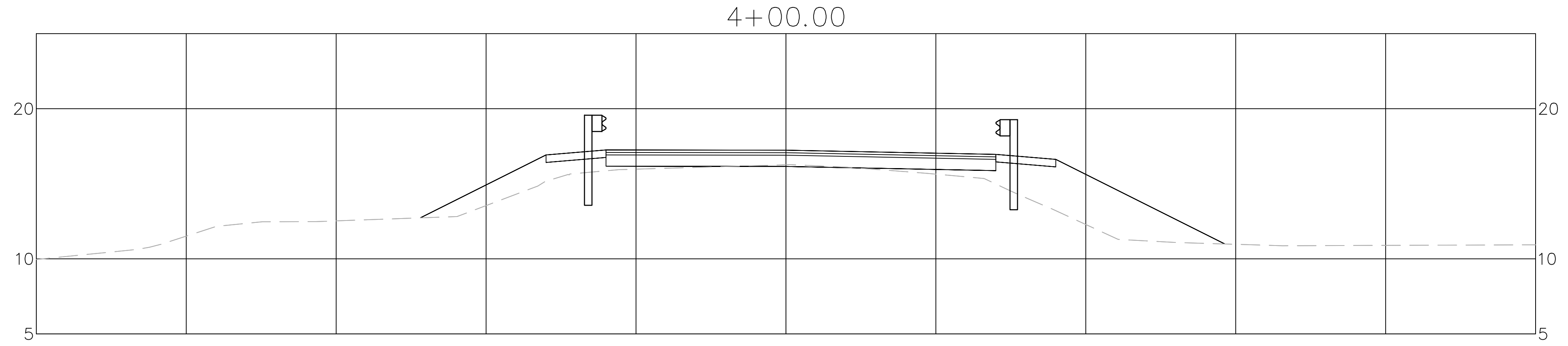
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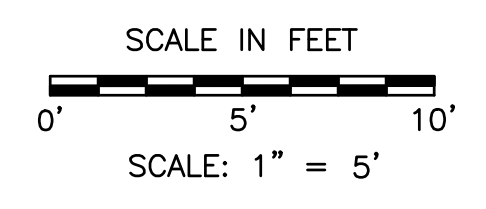
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PROJECT NO.:
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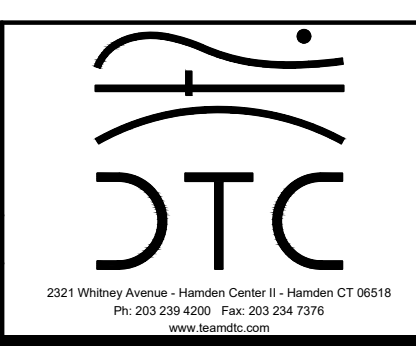
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TOWN OF CLINTON

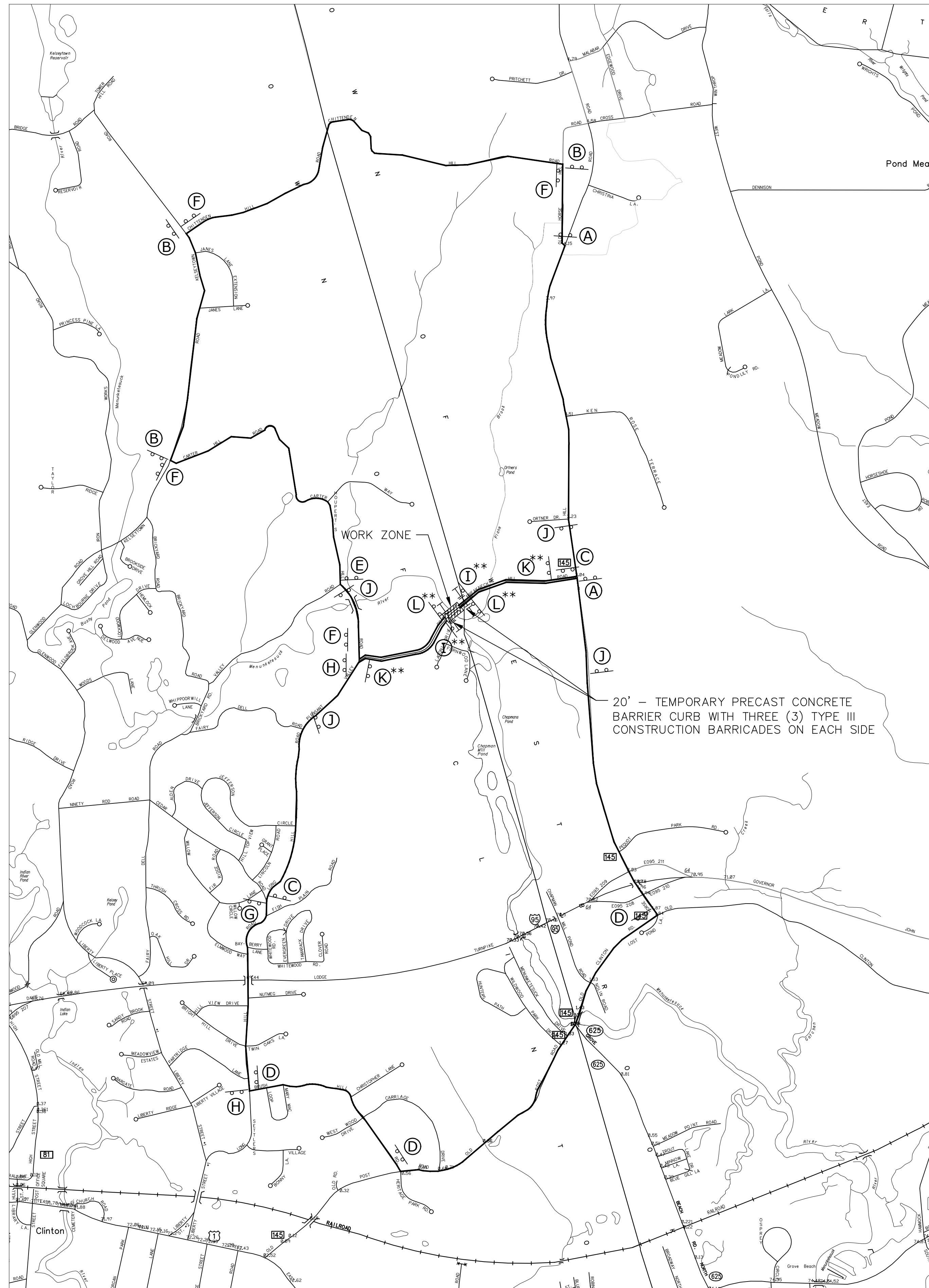
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 PLOTTED: FEBRUARY 18, 2020

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PROJECT NO.:
9027-4609
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 SHEET NO.:
 24



SIGN LEGEND

- Ⓐ **CARTER HILL ROAD** — CONN #80-9928 (60"x30")

DETOUR — M4-8 CONN #80-9707 (24"x12")

↑ — M6-3 CONN #51-2685 (21"x15")
- Ⓑ **CARTER HILL ROAD** — CONN #80-9928 (60"x30")

DETOUR ← — M4-10 CONN #80-9702L (48"x18")
- Ⓒ **PLEASANT VALLEY ROAD** — CONN #80-9928 (60"x30")

DETOUR — M4-8 CONN #80-9707 (24"x12")

↑ — M6-3 CONN #51-2685 (21"x15")
- Ⓓ **PLEASANT VALLEY ROAD** — CONN #80-9928 (60"x30")

DETOUR → — M4-10 CONN #80-9701R (48"x18")
- Ⓔ **ROUTE 145 NORTHBOUND** — CONN #80-9928 (60"x30")

DETOUR — M4-8 CONN #80-9707 (24"x12")

↑ — M6-3 CONN #51-2685 (21"x15")
- Ⓕ **ROUTE 145 NORTHBOUND** — CONN #80-9928 (60"x30")

DETOUR → — M4-10 CONN #80-9701R (48"x18")
- Ⓖ **ROUTE 145 SOUTHBOUND** — CONN #80-9928 (60"x30")

DETOUR — M4-8 CONN #80-9707 (24"x12")

↑ — M6-3 CONN #51-2685 (21"x15")
- Ⓗ **ROUTE 145 SOUTHBOUND** — CONN #80-9928 (60"x30")

DETOUR ← — M4-10 CONN #80-9702L (48"x18")
- Ⓘ** **STOP** — R1-1 CONN #31-0552 (30")
- ⓵ **BREAKNECK HILL ROAD CLOSED TO THRU TRAFFIC** — CONN #80-9913 (60"x10")

R11-3b CONN #80-9081 (60"x30")
- ⓶** **ROAD CLOSED TO THRU TRAFFIC** — R11-3b CONN #80-9081 (60"x30")
- ⓷** **BRIDGE CLOSED 00 MILES AHEAD LOCAL TRAFFIC ONLY** — R11-3b CONN #80-9078 (60"x30")

DETOUR LEGEND

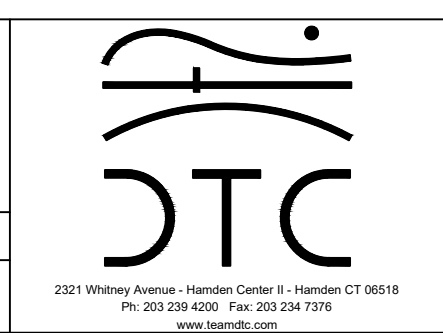
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- ↑ DOUBLE POST MOUNTING
- CONSTRUCTION BARRICADE TYPE III
- ** WARNING LIGHT HIGH INTENSITY

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CHECKED BY:	SRL
DATE CHECKED:	2/17/2020

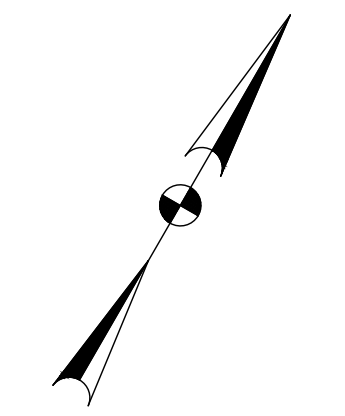
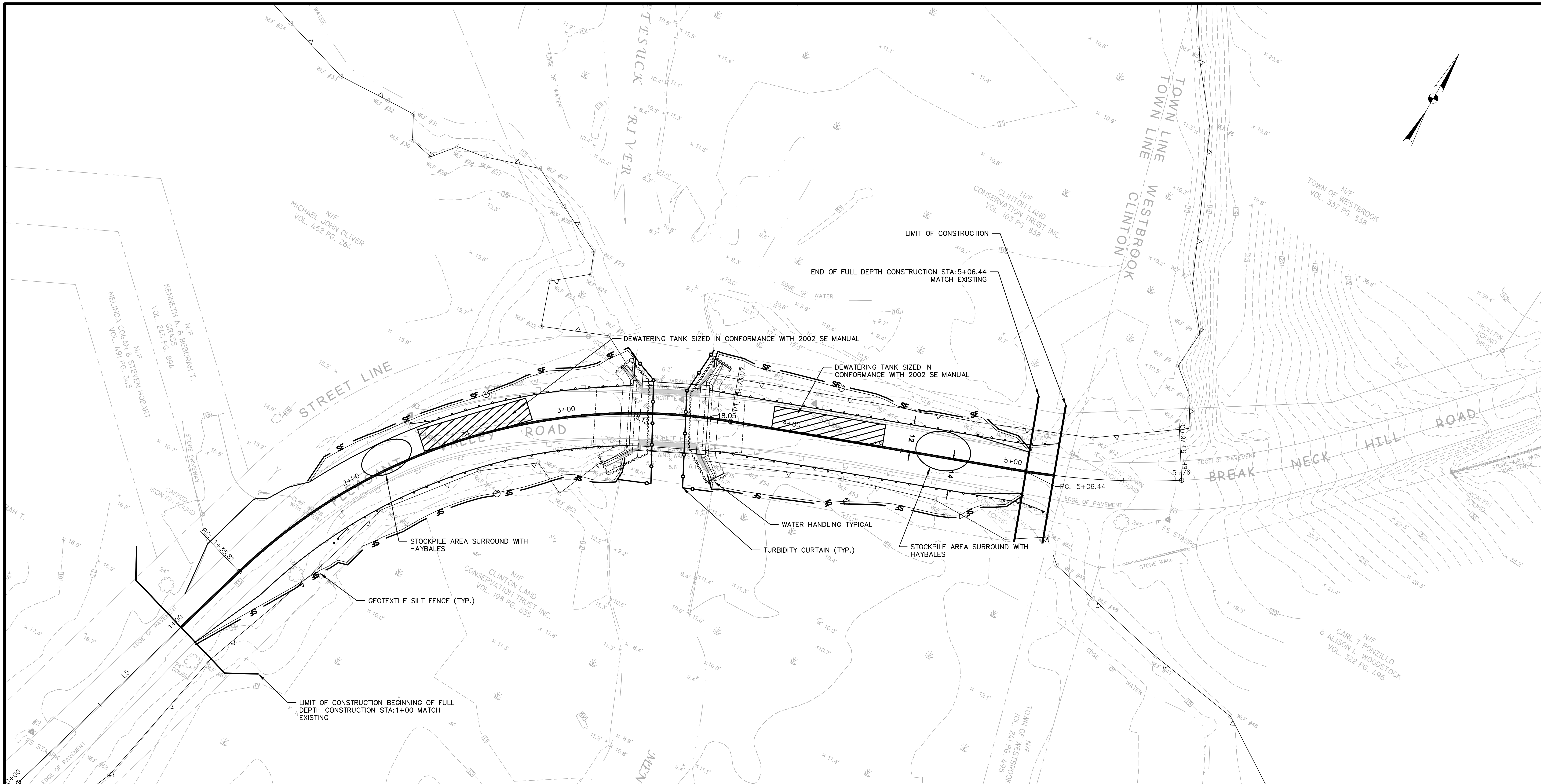
TOWN OF CLINTON	
ENGINEER:	DIVERSIFIED TECHNOLOGY CONSULTANTS
APPROVED BY:	DATE:



PROJECT TITLE:	REPLACEMENT OF PLEASANT VALLEY ROAD BRIDGE OVER MENUNKETESUCK RIVER
CADD:	P:\2016\16155 Pleasant Valley Bridge\106\0-Current
PLOTTED:	FEBRUARY 18, 2020

DRAWING TITLE:	DETOUR PLAN
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PROJECT NO.:	9027-4609
DRAWING NO.:	DET-1
SHEET NO.:	25



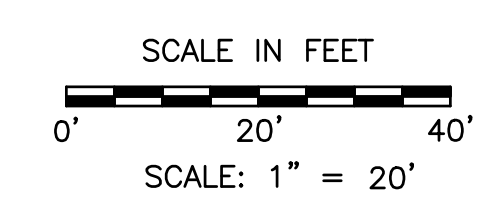
SEQUENCE OF CONSTRUCTION

1. INSTALL SEDIMENT AND EROSION CONTROLS
2. INSTALL DEMOLITION DEBRIS CONTROL
3. REMOVE SUPERSTRUCTURE
4. INSTALL SHEET PILE COFFERDAM AND DEWATERING
5. STOCKPILE NATIVE CHANNEL MATERIAL IN AN AREA ENCLOSED WITH SEDIMENT AND EROSION CONTROLS.
6. DEMOLISH SUBSTRUCTURE AND REMOVE FROM SITE
7. EXCAVATE TO SUBGRADE FOR NEW ABUTMENT FOOTING
8. DRIVE AND CUT OFF PILES
9. INSTALL ABUTMENT AND WINGWALLS
10. BACKFILL WITH 2' OF NATIVE MATERIAL
11. REMOVE SHEET PILES
12. INSTALL SUPERSTRUCTURE
13. INSTALL ROADWAY BASE AND PAVEMENT
14. INSTALL WETLAND ESTABLISHMENT AND STABILIZE SLOPES
15. REMOVE SEDIMENT AND EROSION CONTROLS

NOTES:

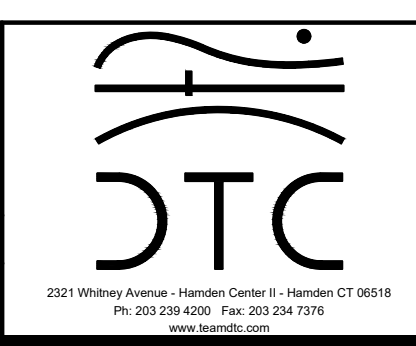
1. DISTURBED AREAS TO BE RESTORED UNDER ITEM TURF ESTABLISHMENT AND WETLAND GRASS ESTABLISHMENT
2. THE CONTRACTOR MAY NOT IMPACT REGULATED AREAS WETLANDS, FLOODWAY 100 YEAR FLOOD LIMITS) BEYOND THAT WHICH IS SHOWN ON THE PLANS.
3. WITHIN ACCESS AREAS REMOVAL OF EXISTING TREES/BRUSH AS NECESSARY TO PERFORM THE WORK CONTRACTOR SHALL MAKE A REASONABLE EFFORT TO KEEP TREE REMOVAL TO A MINIMUM. ALL TREE REMOVAL TO BE COORDINATED WITH LOCAL TREE WARDEN
4. TEMPORARY COFFERDAMS SHALL BE PAID FOR UNDER THE ITEM HANDLING WATER
5. ALL EXCESS SOIL MATERIAL TO BE DISPOSED TO AN OFF SITE UPLAND AREA
6. INSTALL EROSION CONTROL MATTING ON SLOPES 3:1 AND STEEPER.

REV.	DATE	DESCRIPTION	SHT. NO.



DESIGNER:	JAB
DRAFTER:	CJS
CHECKED BY:	SRL
DATE CHECKED:	2/17/2020

TOWN OF CLINTON	
ENGINEER:	DIVERSIFIED TECHNOLOGY CONSULTANTS
APPROVED BY:	DATE:

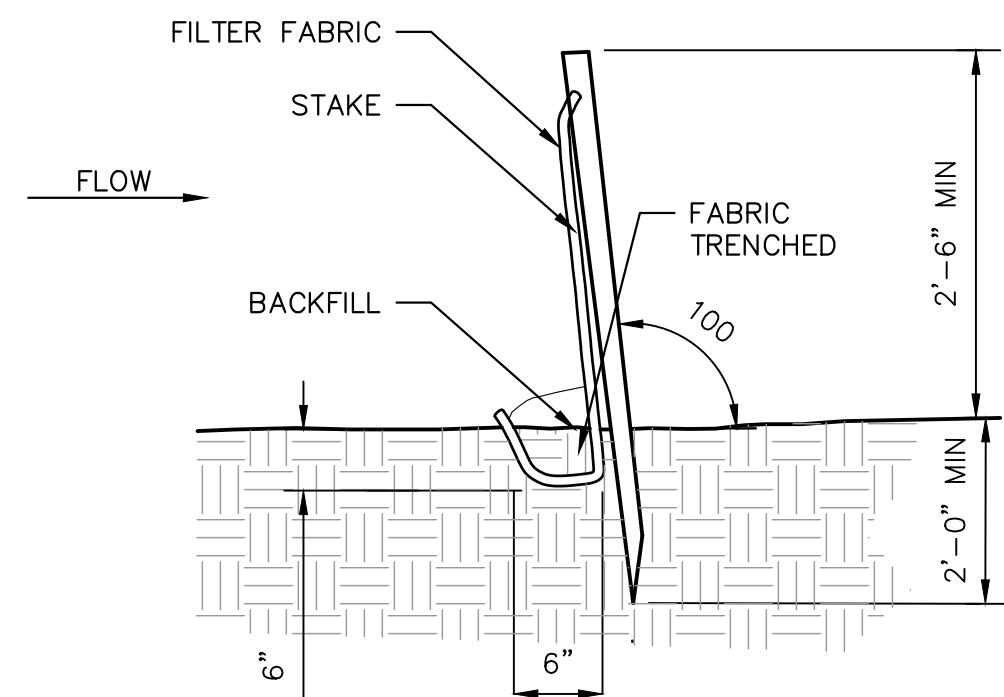


PROJECT TITLE:	REPLACEMENT OF PLEASANT VALLEY ROAD BRIDGE OVER MENUNKETESUCK RIVER
CADD:	P:\2016\16155 Pleasant Valley Bridge\106'0-Current
PLOTTED:	FEBRUARY 18, 2020

DRAWING TITLE:	E&S PLAN
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PROJECT NO.:	9027-4609
DRAWING NO.:	WR-1
SHEET NO.:	26

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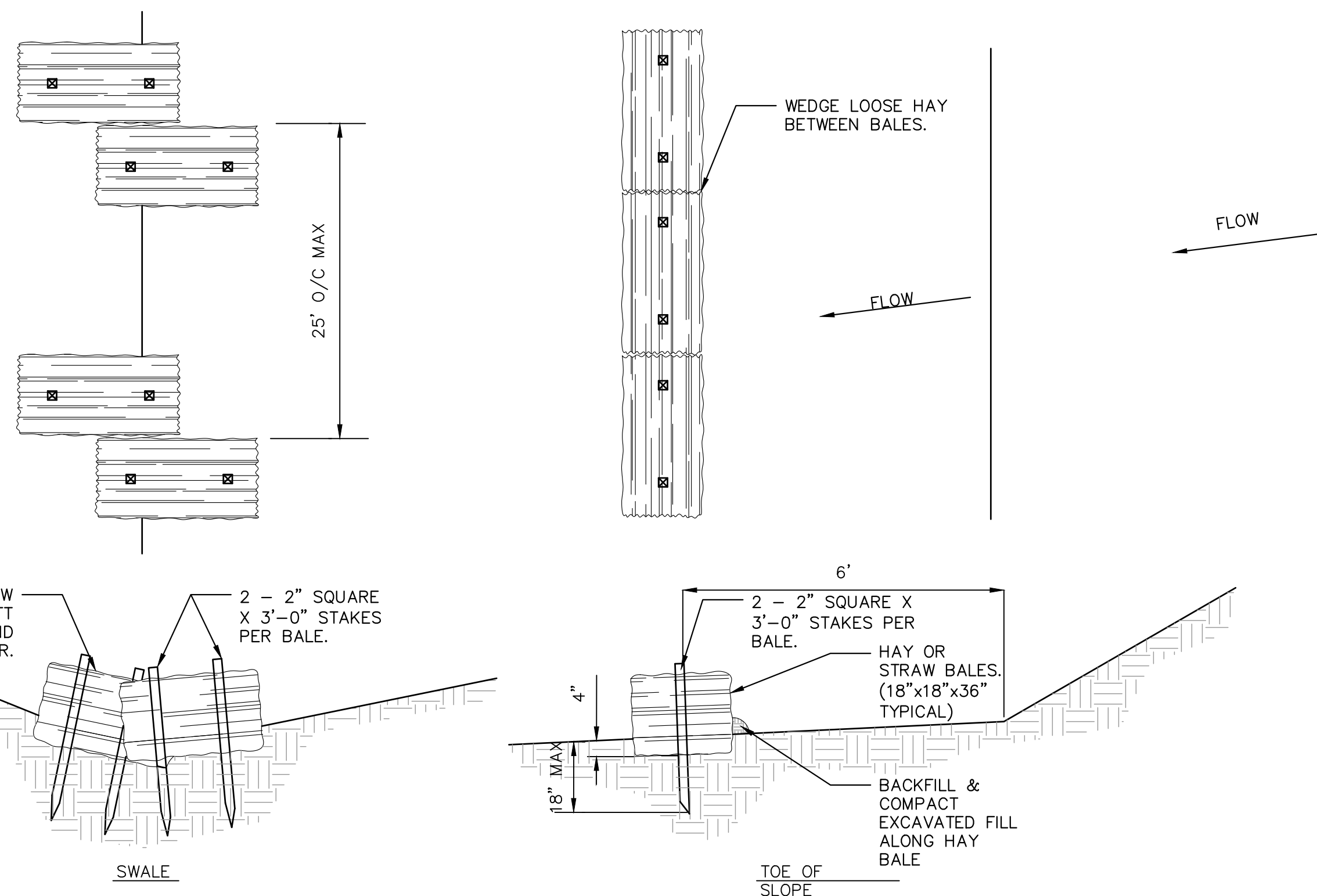


- A) MINIMUM LENGTH OF SILT FENCE IS 15 L.F.
- B) MAXIMUM POST SPACING IS 8'-0". JOINTS ONLY AT SUPPORT POST WITH MINIMUM 2' OVERLAP, SECURELY SEALED.
- C) SEDIMENTATION DEPOSITS SHALL BE REMOVED WHEN THEY REACH 1/2 THE HEIGHT OF THE SILT FENCE.
- D) SILT FENCE SHALL NOT BE USED IN A WATER COURSE.
- E) UPON ESTABLISHMENT OF GROUND COVER ON DISTURBED AREAS, AND WHEN DIRECTED BY THE ENGINEER, FENCE WILL BE REMOVED AND ANY SEDIMENTATION WILL BE THINLY SPREAD UPON EXISTING GROUND COVER.
- F) PERPENDICULAR SILT FENCE WINGS MUST BE INSTALLED AT THE FOLLOWING INTERVALS TO REDUCE WATER VELOCITY ALONG THE FACE OF THE SILT FENCE: (SEE 2002 DEP GUIDELINES)

SLOPE STEEPNESS	SLOPE LENGTH & WING SPACING
5:1 OR FLATTER	100 FEET
3:1 TO 5:1	75 FEET
2:1 TO 3:1	50 FEET

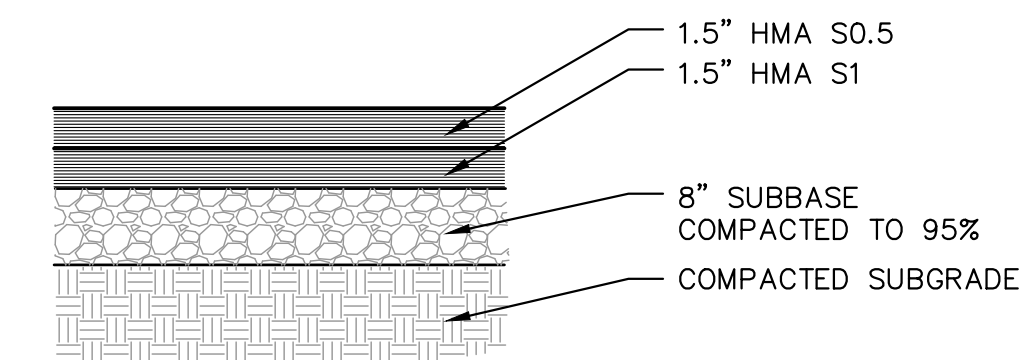
1 GEOTEXTILE SILT FENCE (GSF)

NTS



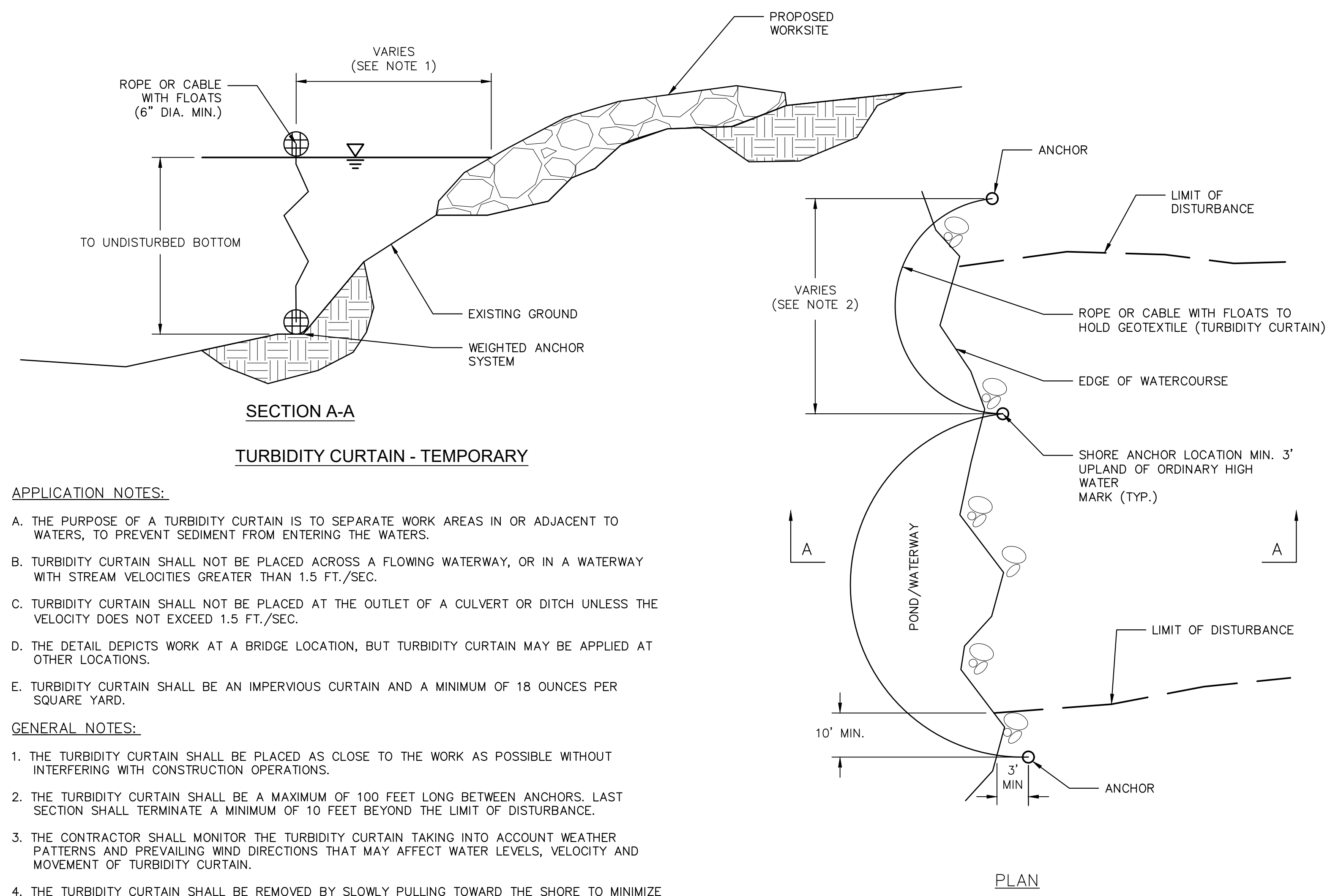
3 TYPICAL HAYBALE INSTALLATION (HB)

NTS



2 DRIVEWAY APRON

NTS



- APPLICATION NOTES:**
- A. THE PURPOSE OF A TURBIDITY CURTAIN IS TO SEPARATE WORK AREAS IN OR ADJACENT TO WATERS, TO PREVENT SEDIMENT FROM ENTERING THE WATERS.
 - B. TURBIDITY CURTAIN SHALL NOT BE PLACED ACROSS A FLOWING WATERWAY, OR IN A WATERWAY WITH STREAM VELOCITIES GREATER THAN 1.5 FT./SEC.
 - C. TURBIDITY CURTAIN SHALL NOT BE PLACED AT THE OUTLET OF A CULVERT OR DITCH UNLESS THE VELOCITY DOES NOT EXCEED 1.5 FT./SEC.
 - D. THE DETAIL DEPICTS WORK AT A BRIDGE LOCATION, BUT TURBIDITY CURTAIN MAY BE APPLIED AT OTHER LOCATIONS.
 - E. TURBIDITY CURTAIN SHALL BE AN IMPERVIOUS CURTAIN AND A MINIMUM OF 18 OUNCES PER SQUARE YARD.
- GENERAL NOTES:**
1. THE TURBIDITY CURTAIN SHALL BE PLACED AS CLOSE TO THE WORK AS POSSIBLE WITHOUT INTERFERING WITH CONSTRUCTION OPERATIONS.
 2. THE TURBIDITY CURTAIN SHALL BE A MAXIMUM OF 100 FEET LONG BETWEEN ANCHORS. LAST SECTION SHALL TERMINATE A MINIMUM OF 10 FEET BEYOND THE LIMIT OF DISTURBANCE.
 3. THE CONTRACTOR SHALL MONITOR THE TURBIDITY CURTAIN TAKING INTO ACCOUNT WEATHER PATTERNS AND PREVAILING WIND DIRECTIONS THAT MAY AFFECT WATER LEVELS, VELOCITY AND MOVEMENT OF TURBIDITY CURTAIN.
 4. THE TURBIDITY CURTAIN SHALL BE REMOVED BY SLOWLY PULLING TOWARD THE SHORE TO MINIMIZE ESCAPE OF SEDIMENTS INTO THE POND/WATERWAY.
 5. THE WEIGHTED ANCHOR SYSTEM SHALL BE A TYPE THAT ALLOWS THE CURTAIN TO CONFORM TO THE CONTOUR ON THE BOTTOM OF THE POND/WATERWAY.

4 TURBIDITY CURTAIN (TC)

NTS

<table border="1"> <tr> <td>DESIGNER:</td> <td>JAB</td> </tr> <tr> <td>DRAFTER:</td> <td>CJS</td> </tr> <tr> <td>CHECKED BY:</td> <td>SRL</td> </tr> <tr> <td>DATE CHECKED:</td> <td>2/17/2020</td> </tr> </table>				DESIGNER:	JAB	DRAFTER:	CJS	CHECKED BY:	SRL	DATE CHECKED:	2/17/2020	<h2>TOWN OF CLINTON</h2>				PROJECT TITLE: REPLACEMENT OF PLEASANT VALLEY ROAD BRIDGE OVER MENUNKETESUCK RIVER		DRAWING TITLE: <h3>DETAILS</h3>		PROJECT NO.: 9027-4609	
DESIGNER:	JAB																				
DRAFTER:	CJS																				
CHECKED BY:	SRL																				
DATE CHECKED:	2/17/2020																				
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REV.	DATE	DESCRIPTION	SHT. NO.	ENGINEER: DIVERSIFIED TECHNOLOGY CONSULTANTS APPROVED BY: _____ DATE: _____		CADD: P:\2016\16155 Pleasant Valley Bridge\106\0-Current PLOTTED: FEBRUARY 18, 2020															

File: 07_2020 - 0.00am
 P:\2016\16155 Pleasant Valley Bridge\106\0-Current\16-105-106 Standard Detail.dwg
 User: jacob

*ONLY STANDARD SHEETS MARKED WITH AN "✓" ARE IN THIS PROJECT #

**REVISED OR ADDED

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<input type="checkbox"/>	HW-506_01	ENDWALLS, SLOPE PAVED INLETS AND OUTLETS	1-26-12
<input type="checkbox"/>	HW-506_02	TYPE "D-G" & "L" ENDWALLS	7-13-12
<input type="checkbox"/>	HW-506_03	ENDWALLS FOR PIPE ARCH	9-18-09
<input type="checkbox"/>	HW-507_01	TYPE "C", "C-L" & DROP INLET CATCH BASIN	7-24-13
<input type="checkbox"/>	HW-507_02	TYPE "C", "C-L" & DOUBLE GRATE TYPE - I	7-24-13
<input type="checkbox"/>	HW-507_03	TYPE "C", "C-L" & DOUBLE GRATE TYPE - II	7-24-13
<input type="checkbox"/>	HW-507_04	TYPE "C", "C-L" & ROUND PRECAST CONCRETE CB	11-10-11
<input type="checkbox"/>	HW-507_05	TYPE "C" & "C-L" PRECAST CONCRETE CB DOUBLE GRATE TYPE - I	11-10-11
<input type="checkbox"/>	HW-507_06	TYPE "C" & "C-L" PRECAST CONCRETE CB DOUBLE GRATE TYPE - II	11-10-11
<input type="checkbox"/>	HW-507_07	TYPE "C" & "C-L" CATCH BASIN TOPS AND CURBS	11-10-11
<input type="checkbox"/>	HW-507_08	CATCH BASIN FRAMES AND GRATES	9-18-09
<input type="checkbox"/>	HW-507_09	HEAVY DUTY LOCK DOWN TOPS	7-12-12
<input type="checkbox"/>	HW-507_10	MANHOLE - FRAME & COVER	7-24-13
<input type="checkbox"/>	HW-651_01	C.C.M. PIPE INSTALLATIONS IN FILL & ROCK SLOPES & PIPE TRENCH DETAIL	7-24-13
<input type="checkbox"/>	HW-651_02	SLOTTED DRAIN PIPE 12"- 15"-18"-24"-30" (305-381-457-610-762)	7-12-12
<input type="checkbox"/>	HW-652_01	PIPE ENDS	7-24-13
<input type="checkbox"/>	HW-751_01	UNDERDRAINS AND UNDERDRAIN OUTLETS	7-12-12
<input type="checkbox"/>	HW-803_01a	PAVED APRONS	6-07-17
<input type="checkbox"/>	HW-803_01b	PAVED DITCHES AND PAVED CHANNELS	6-07-17
<input type="checkbox"/>	HW-811_01	CONCRETE CURBING	6-07-17
<input type="checkbox"/>	HW-813_01	GRANITE STONE TRANSITION CURBING	7-24-13
<input type="checkbox"/>	HW-813_02	STONE CURBING	6-07-17
<input type="checkbox"/>	HW-815_01	BITUMINOUS CONCRETE CURBING	6-07-17
<input type="checkbox"/>	HW-821_01a	TRANSITION - 45" (1145) F-SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 1	1-26-12
<input type="checkbox"/>	HW-821_01b	TRANSITION - 45" (1145) F-SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 2	10-18-10
<input type="checkbox"/>	HW-821_01c	TRANSITION - 45" (1145) F-SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 3	1-26-12
<input type="checkbox"/>	HW-821_02a	45" (1145) F-SHAPE PRECAST CONCRETE BARRIER CURB SHEET 1	7-24-13
<input type="checkbox"/>	HW-821_02b	45" (1145) F-SHAPE PRECAST CONCRETE BARRIER CURB SHEET 2	7-24-13
<input type="checkbox"/>	HW-821_03a	TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 1	1-26-12
<input type="checkbox"/>	HW-821_03b	TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 2	10-18-10
<input type="checkbox"/>	HW-821_03c	TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 3	10-18-10
<input type="checkbox"/>	HW-821_03d	TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 4	10-18-10
<input type="checkbox"/>	HW-821_03e	TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) F-SHAPE	7-24-13

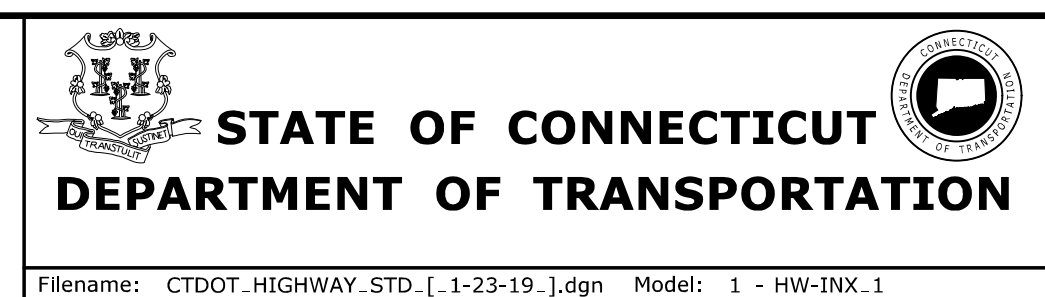
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<input type="checkbox"/>	HW-821_04a	MERRITT PARKWAY NARROW MEDIAN BARRIER	6-09-11
<input type="checkbox"/>	HW-821_04b	MERRITT PARKWAY - 2' (610) WIDE MEDIAN BARRIER AND ROADSIDE BARRIER	7-24-13
<input type="checkbox"/>	HW-821_05a	TRANSITION - 45" (1145) F-SHAPE TO 54" (1372) VERTICAL SHAPE SHEET 1	1-26-12
<input type="checkbox"/>	HW-821_05b	TRANSITION - 45" (1145) F-SHAPE TO 54" (1372) VERTICAL SHAPE SHEET 2	1-26-12
<input type="checkbox"/>	HW-821_06	54" (1372) VERTICAL SHAPE BARRIER	2-06-12
<input type="checkbox"/>	HW-821_07	MISCELLANOUS DETAILS FOR BARRIER TRANSITIONS	7-12-12
<input checked="" type="checkbox"/>	HW-822_01	TEMPORARY PRECAST CONCRETE BARRIER CURB	7-24-13
<input type="checkbox"/>	HW-905_01	STONE WALL FENCE	1-25-19
<input type="checkbox"/>	HW-906_01	WIRE FENCE	1-25-19
<input checked="" type="checkbox"/>	HW-910_01	W-BEAM METAL BEAM RAIL HARDWARE	6-09-11
<input checked="" type="checkbox"/>	HW-910_02	METAL BEAM RAIL (TYPE R-B 350) GUIDERAIL	6-09-11
<input type="checkbox"/>	HW-910_03	METAL BEAM RAIL (TYPE MD-B 350)	6-09-11
<input type="checkbox"/>	HW-910_04	METAL BEAM RAIL (TYPE R-B 350) SYSTEMS 5, 5A, & 6	6-09-11
<input type="checkbox"/>	HW-910_05	METAL BEAM RAIL R-B 350 SPAN TYPE I, II, III SECTIONS	7-24-13
<input type="checkbox"/>	HW-910_06	R-B 350 BRIDGE ATTACHMENT SAFETY SHAPE PARAPET	6-09-11
<input checked="" type="checkbox"/>	HW-910_07	R-B 350 BRIDGE ATTACHMENT VERTICAL SHAPE PARAPET	1-25-19
<input type="checkbox"/>	HW-910_08	R-B 350 BRIDGE ATTACHMENT TRAILING END	6-09-11
<input type="checkbox"/>	HW-910_09a	MISCELLANEOUS GUIDERAIL TRANSITIONS SHEET 1	1-26-12
<input type="checkbox"/>	HW-910_09b	MISCELLANEOUS GUIDERAIL TRANSITIONS SHEET 2	7-25-12
<input type="checkbox"/>	HW-910_10	METAL BEAM RAIL 8" (203) X 6" (152) BOX BEAM	7-24-13
<input type="checkbox"/>	HW-910_11	CURVED GUIDERAIL TREATMENT DETAIL	7-25-12
<input type="checkbox"/>	HW-910_12a	MERRITT PARKWAY GUIDERAIL ATTACHMENT - SYSTEM 2 & 3	7-24-13
<input type="checkbox"/>	HW-910_12b	MERRITT PARKWAY GUIDERAIL	7-24-13
<input type="checkbox"/>	HW-910_12c	MERRITT PARKWAY GUIDERAIL TRAILING END ATTACHMENTS	7-24-13
<input type="checkbox"/>	HW-910_12d	MERRITT PARKWAY MEDIAN GUIDERAIL AND END ANCHOR	6-09-11
<input type="checkbox"/>	HW-910_13a	THRIE-BEAM METAL BEAM RAIL HARDWARE	7-24-13
<input type="checkbox"/>	HW-910_13b	THRIE-BEAM TRANSITIONS	7-24-13
<input type="checkbox"/>	HW-910_14a	THRIE-BEAM 350 BRIDGE ATTACHMENT	6-09-11
<input type="checkbox"/>	HW-910_14b	THRIE-BEAM 350 GUIDERAIL TRANSITION TO R-B 350 GUIDERAIL	6-09-11
<input type="checkbox"/>	HW-910_15	MD-B 350 MEDIAN BARRIER SAFETY SHAPE ATTACHMENT TYPE I	6-09-11
<input type="checkbox"/>	HW-910_16	MD-B 350 MEDIAN BARRIER SAFETY SHAPE ATTACHMENT TYPE II	6-09-11
<input type="checkbox"/>	HW-910_17	R-B TERMINAL SECTION	7-24-13
<input type="checkbox"/>	HW-910_18	METAL BEAM RAIL (TYPE MD-I)	10-18-10

REV.	DATE	REVISION DESCRIPTION

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: 1/23/2019

NOT TO SCALE



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CTDOT
STANDARD SHEET
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:
**HIGHWAY
STANDARD SHEET INDEX**

STANDARD SHEET NO.:
**HW_1NX
1 of 2**

*ONLY STANDARD SHEETS MARKED WITH AN "✓" ARE IN THIS PROJECT #

**REVISED OR ADDED

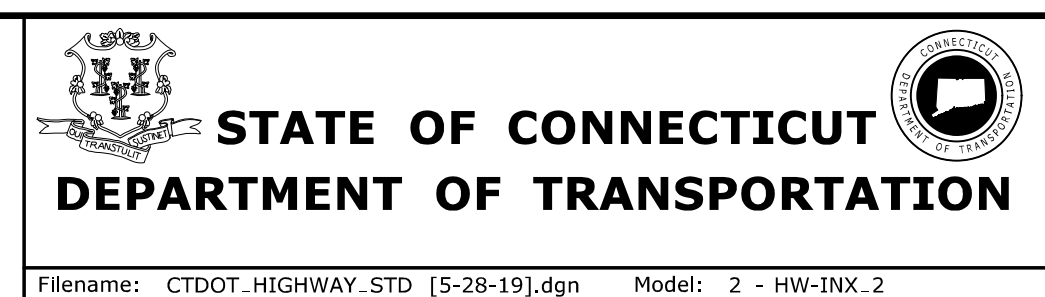
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<input type="checkbox"/>	HW-910_19a	METAL BEAM RAIL (MODIFIED TYPE R-I) AND END ANCHORAGE TYPE I	7-24-13				
<input type="checkbox"/>	HW-910_19b	METAL BEAM RAIL (MODIFIED TYPE R-I) AND END ANCHORAGE TYPE II	7-24-13				
<input type="checkbox"/>	HW-910_19c	METAL BEAM RAIL (MODIFIED TYPE R-I) SYSTEMS 2 AND 3	7-24-13				
<input checked="" type="checkbox"/>	HW-910_20	MASH W-BEAM HARDWARE	1-05-18				
<input checked="" type="checkbox"/>	HW-910_21	METAL BEAM RAIL (R-B MASH) GUIDERAIL	1-25-19				
<input type="checkbox"/>	HW-910_22	METAL BEAM RAIL (MD-B MASH) GUIDERAIL	1-05-18				
<input type="checkbox"/>	HW-910_23	METAL BEAM RAIL (R-B MASH) HALF AND QUARTER POST SPACING	1-05-18				
<input type="checkbox"/>	HW-910_24	METAL BEAM RAIL SPAN SECTION TYPES II AND III	1-05-18				
<input checked="" type="checkbox"/>	HW-910_25	METAL BEAM RAIL TRANSITION 350 TO MASH	1-05-18				
<input checked="" type="checkbox"/>	HW-911_01	R-B END ANCHORAGE TYPE I AND II	1-25-19				
<input type="checkbox"/>	HW-911_02	MD-B END ANCHORAGE TYPE I	1-05-18				
<input type="checkbox"/>	HW-911_03	ANCHOR IN EARTH CUT SLOPE & ANCHOR IN ROCK CUT SLOPE	10-18-10				
<input type="checkbox"/>	HW-911_05	MERRITT PARKWAY GUIDERAIL END ANCHORS	7-24-13				
<input type="checkbox"/>	HW-913_01a	CHAIN LINK FENCE	5-06-19				
<input type="checkbox"/>	HW-913_01b	CHAIN LINK FENCE HARDWARE	5-06-19				
<input type="checkbox"/>	HW-913_02	CHAIN LINK FENCE GATES	5-06-19				
<input type="checkbox"/>	HW-918_01a	THREE CABLE GUIDERAIL (I-BEAM POSTS) SHEET 1	7-24-13				
<input type="checkbox"/>	HW-918_01b	THREE CABLE GUIDERAIL (I-BEAM POSTS) SHEET 2	1-26-12				
<input type="checkbox"/>	HW-918_01c	THREE CABLE GUIDERAIL (I-BEAM POSTS) SHEET 3	7-24-13				
<input type="checkbox"/>	HW-921_01	DRIVEWAY RAMPS AND SIDEWALKS	6-07-17				
<input type="checkbox"/>	HW-949_01a	LANDSCAPE PLANTING	6-15-19				
<input type="checkbox"/>	HW-949_01b	TREE STAKING	6-15-19				
<input type="checkbox"/>	HW-1800_01	GRADING PLAN FOR IMPACT ATTENUATION SYSTEMS (FLARED AND TANGENTIAL)	1-25-19				
<input type="checkbox"/>	HW-1800_02	GRADING PLAN FOR IMPACT ATTENUATION SYSTEM (MEDIAN/GORE)	1-25-19				

REV.	DATE	REVISION DESCRIPTION
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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: 6/20/2019

NOT TO SCALE



CTDOT
STANDARD SHEET

OFFICE OF ENGINEERING

STANDARD SHEET TITLE:

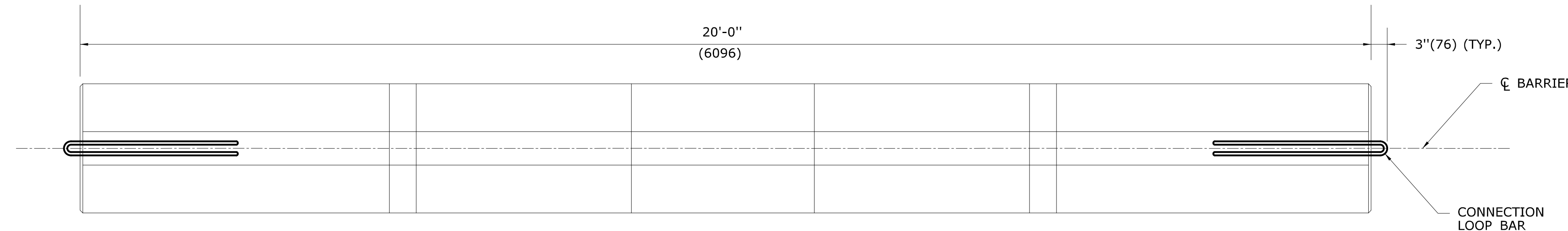
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STANDARD SHEET INDEX**

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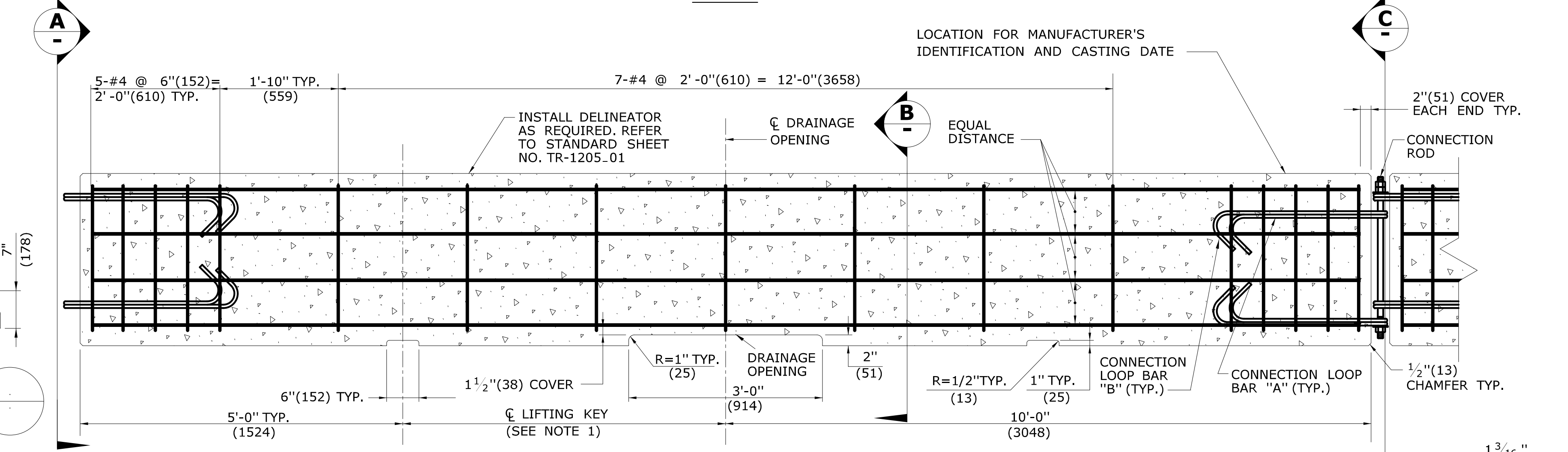
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2 of 2**

GENERAL NOTES:

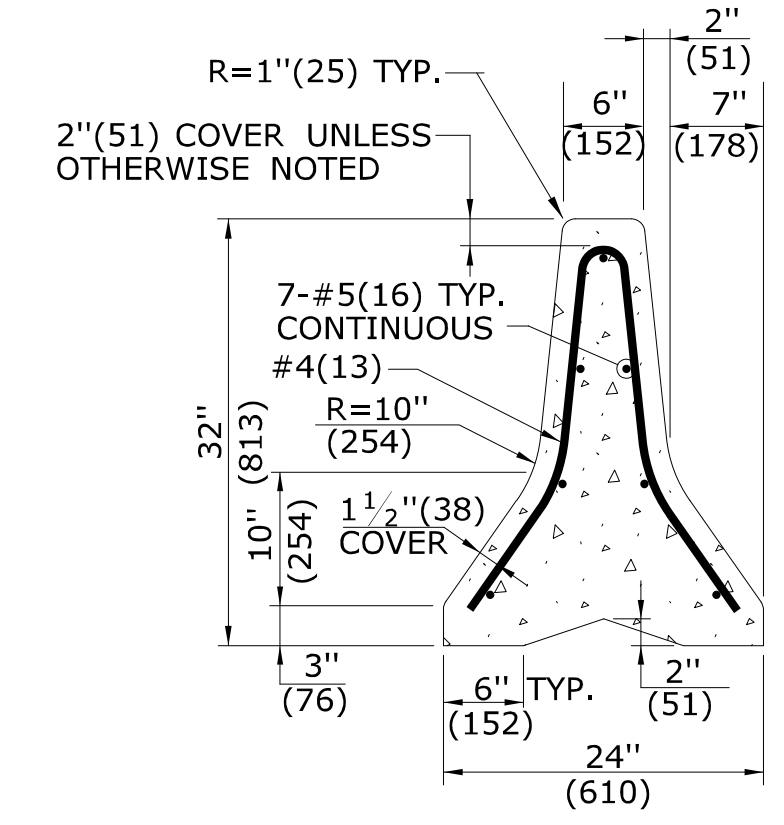
1. ALTERNATE DESIGNS FOR LIFTING KEYS, HOLES OR OTHER HANDLING DEVICES MAY BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
2. EXPECTED PERMANENT DYNAMIC DEFLECTION IS 3'-6" (1148) BASED ON TL-3 CRASH TESTS WITH 240' (73152) OF TPCBC.



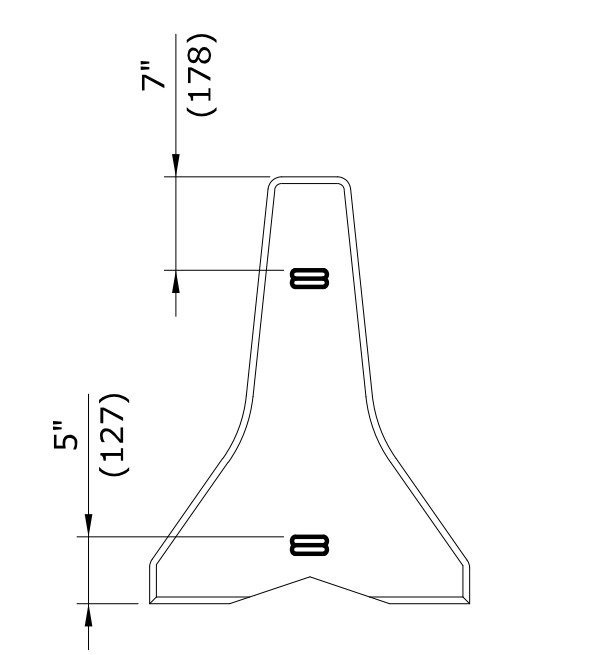
PLAN



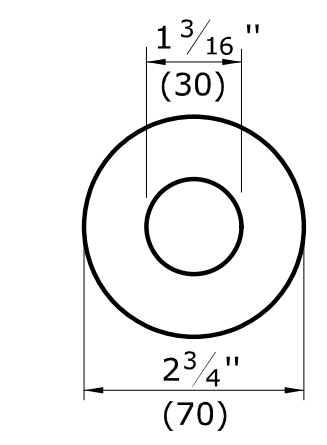
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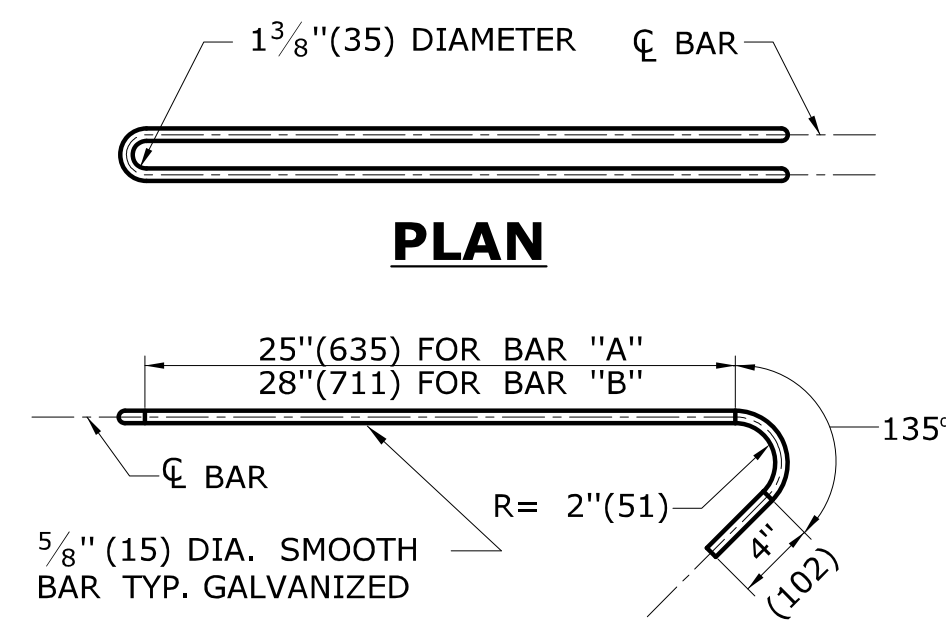
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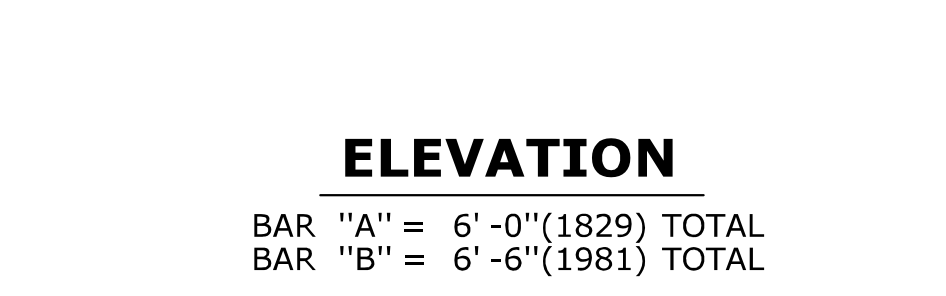
END VIEW C



WASHER DETAIL

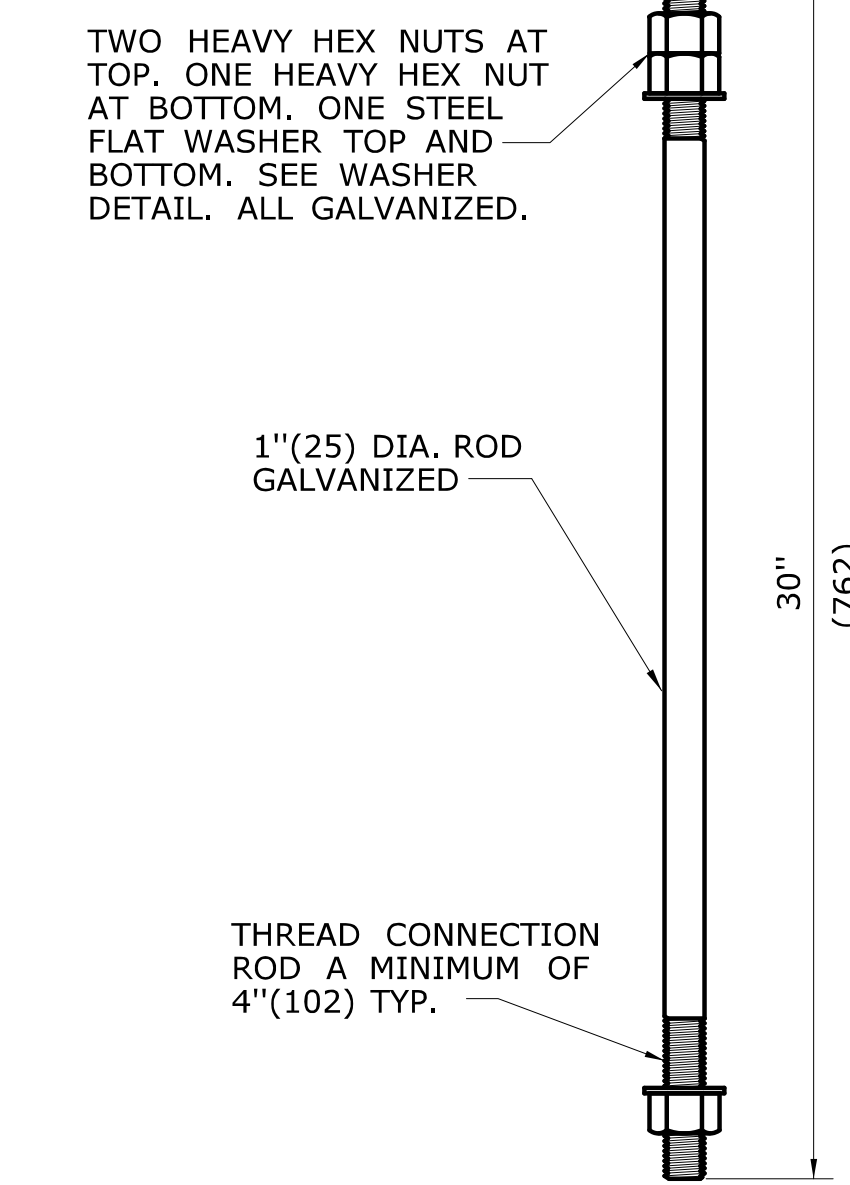


PLAN

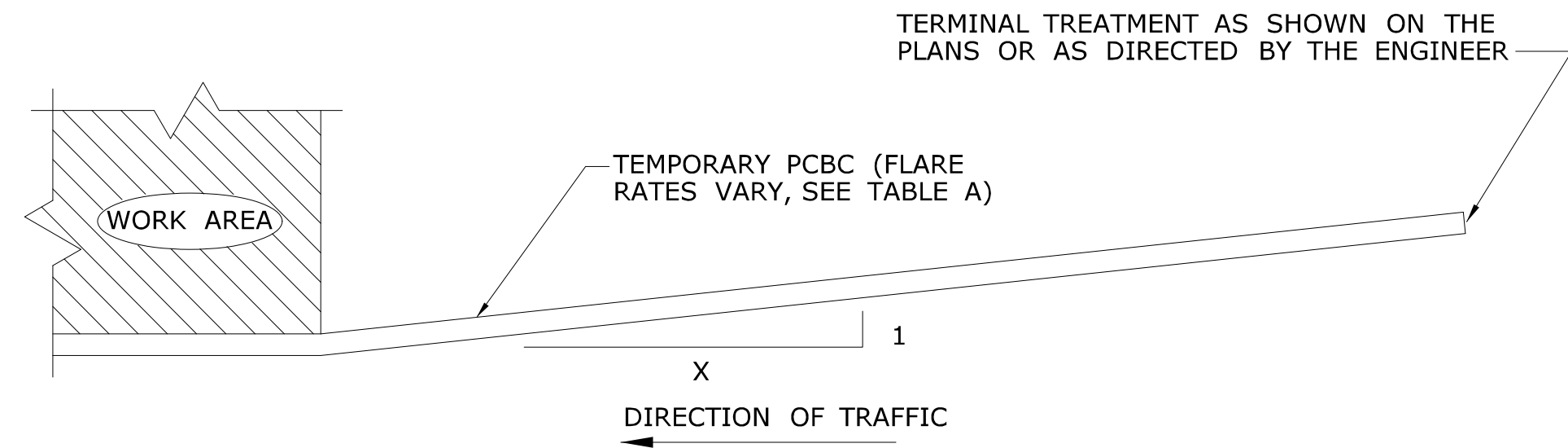


ELEVATION

CONNECTION LOOP BAR



CONNECTION ROD



PLAN - TYPICAL INSTALLATION

TABLE A	
FLARE RATES	
* SPEED	FLARE RATE (X : 1)
≤ 30MPH(48KPH)	4 : 1
> 30MPH(48KPH) < 45MPH(72KPH)	6 : 1
≥ 45MPH(72KPH) NON-LIMITED ACCESS HIGHWAYS	8 : 1
ALL LIMITED ACCESS HIGHWAYS	10 : 1

* DESIGN SPEED THROUGH THE WORK AREA.

TWO HEAVY HEX NUTS AT TOP. ONE HEAVY HEX NUT AT BOTTOM. ONE STEEL FLAT WASHER TOP AND BOTTOM. SEE WASHER DETAIL. ALL GALVANIZED.

TERMINAL TREATMENT AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER

TEMPORARY PCBC (FLARE RATES VARY, SEE TABLE A)

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.

NOT TO SCALE



APPROVED BY: James H. Norman
2013.07.24 14:48:34-04'00'

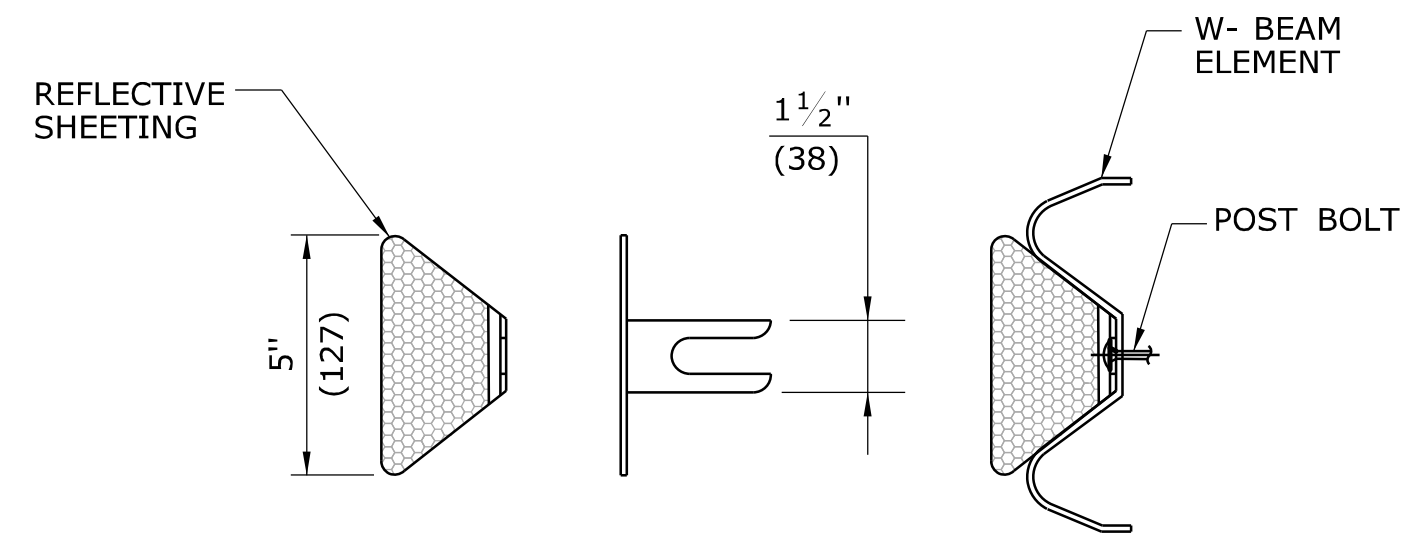
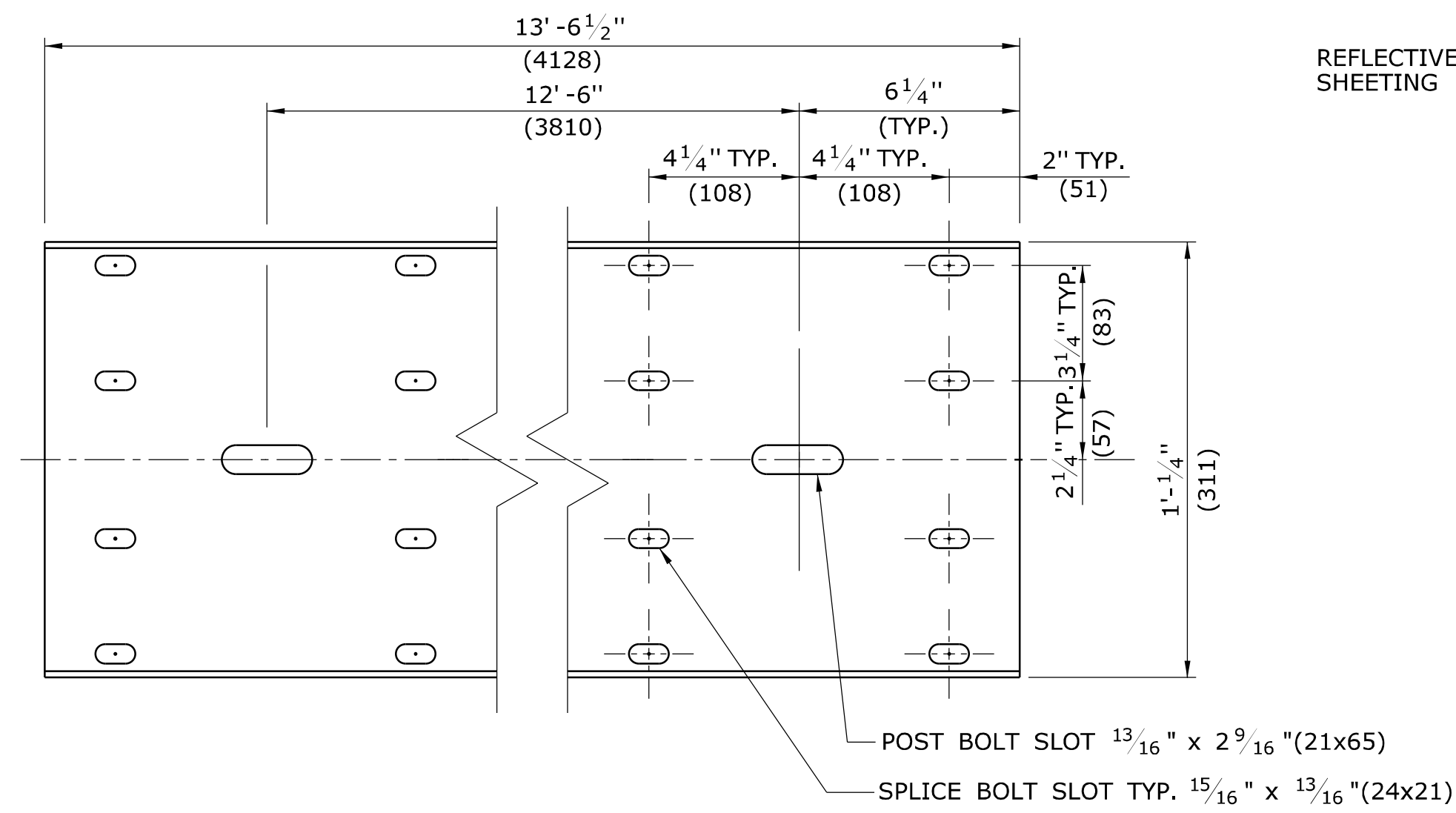
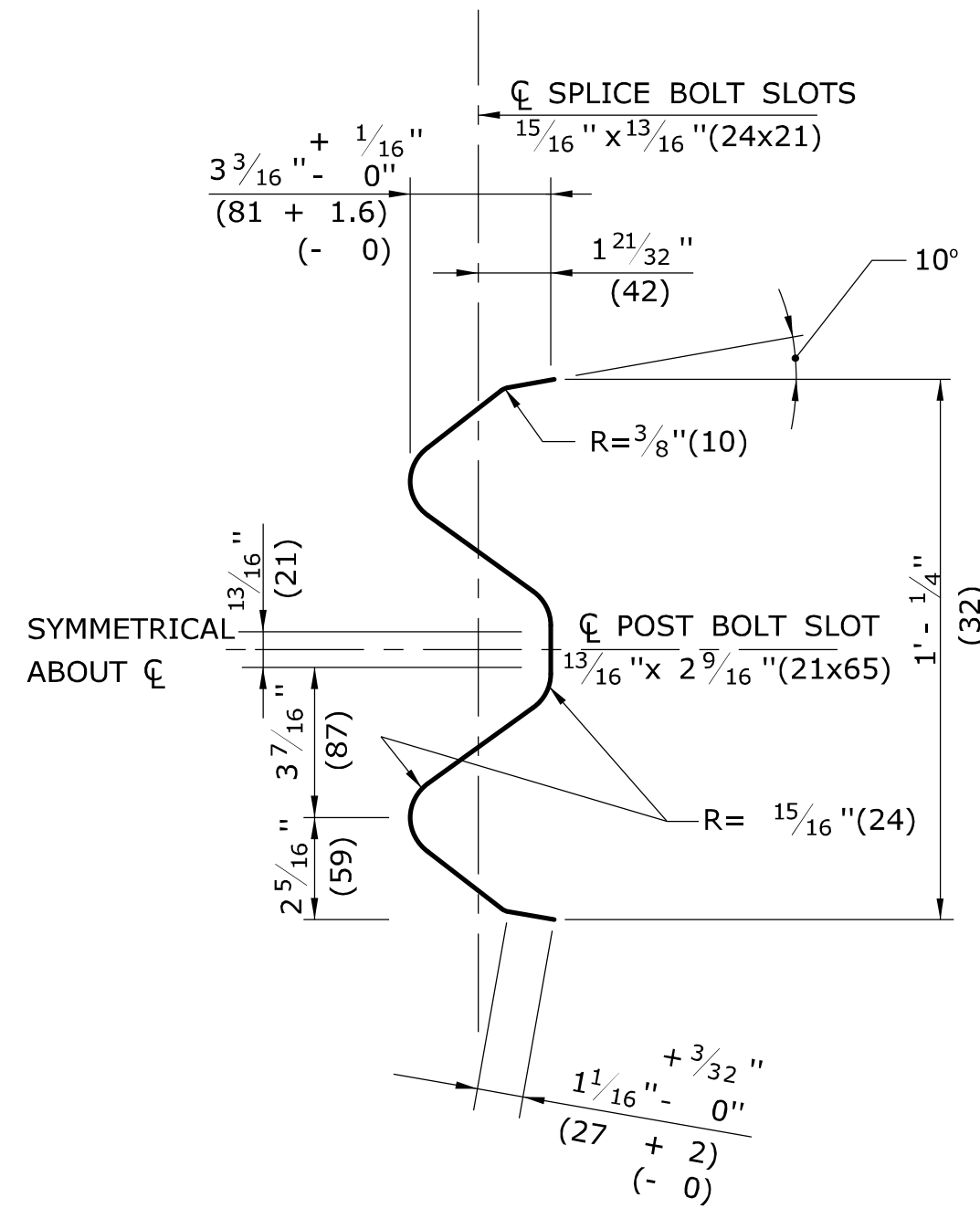
CTDOT STANDARD SHEET
OFFICE OF ENGINEERING

TEMPORARY PRECAST CONCRETE BARRIER CURB

HW-822_01

ALL METRIC DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED.

1	3/12	REVISE SLOPE NOTE & DETAIL NOTE	-
2	7/13	ERRATA	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-



GENERAL NOTES:

- NEW R-B 350 GUIDERAIL INCLUDING SYSTEMS, ANCHORS AND TRANSITIONS INSTALLED ON EXPRESSWAYS AND RAMPS SHALL USE CLASS B TYPE II (10 GAUGE) W-BEAM RAIL ELEMENTS.
- W6x9 (W150x14) POSTS MAY BE USED IN PLACE OF W6 x 8.5(W150x13) POSTS.
- W8x13 (W200x19) POSTS, 7'-6"(2286) LONG, ARE USED WITH TRANSITIONS TO VERTICAL OR SAFETY SHAPE PARAPETS (POSTS 1 AND 2) AND SYSTEM 6.
- W6x8.5 (W150x13) POSTS, 6'-0"(1829) LONG, ARE USED WITH TRANSITIONS TO VERTICAL OR SAFETY SHAPE PARAPETS (POSTS 3 THROUGH 6), MD-B 350, SYSTEM 5 & 5A, AND STANDARD R-B 350 GUIDERAIL.

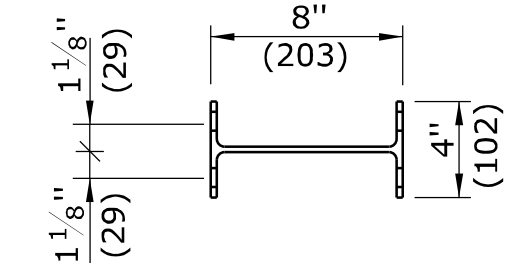
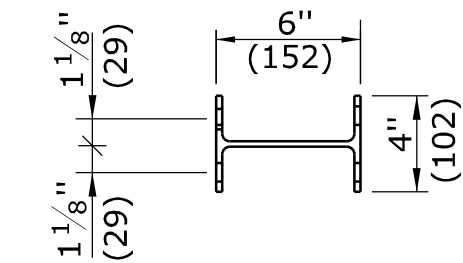
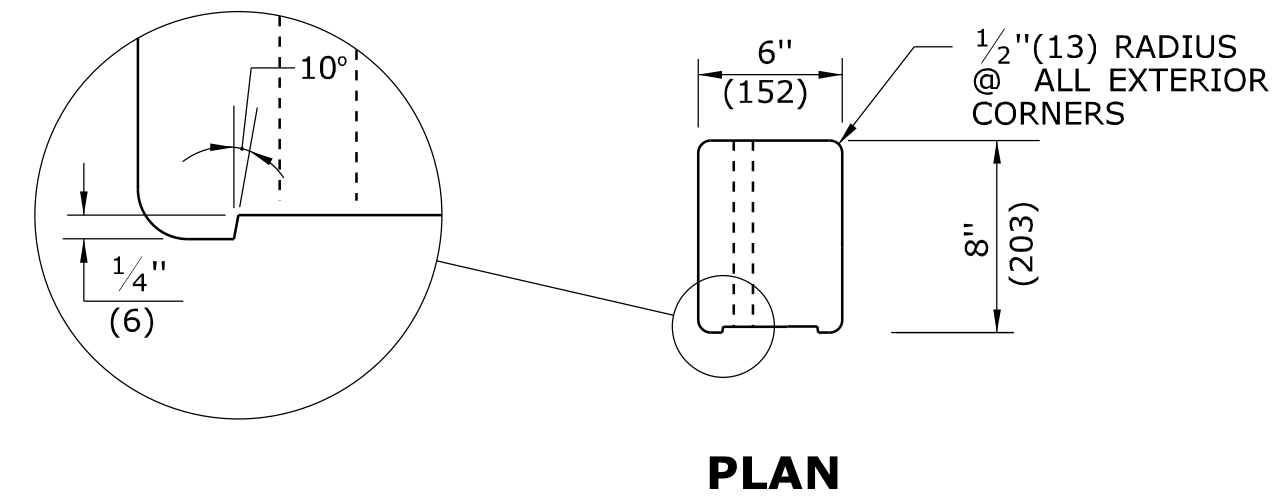
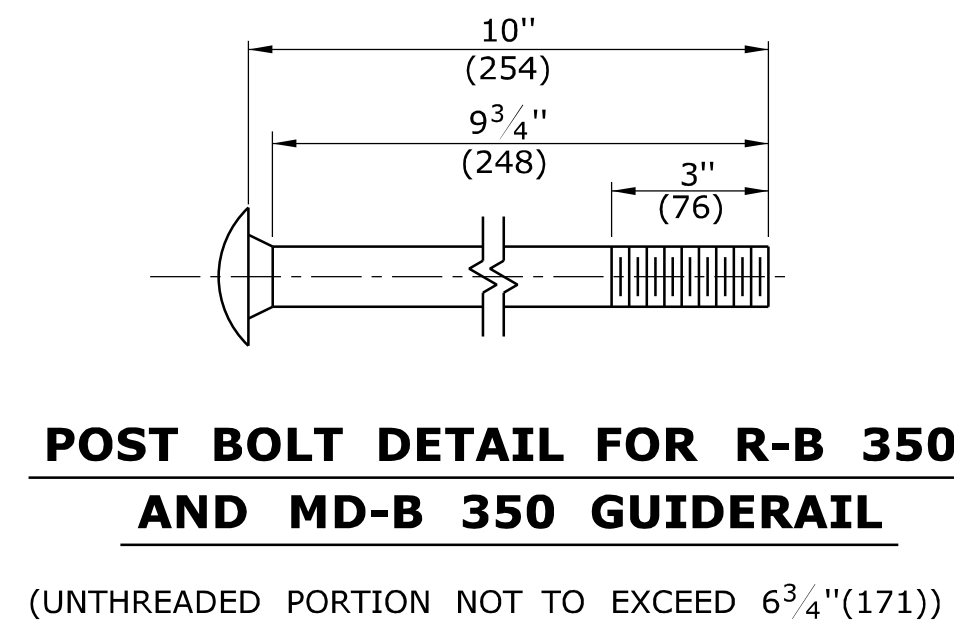
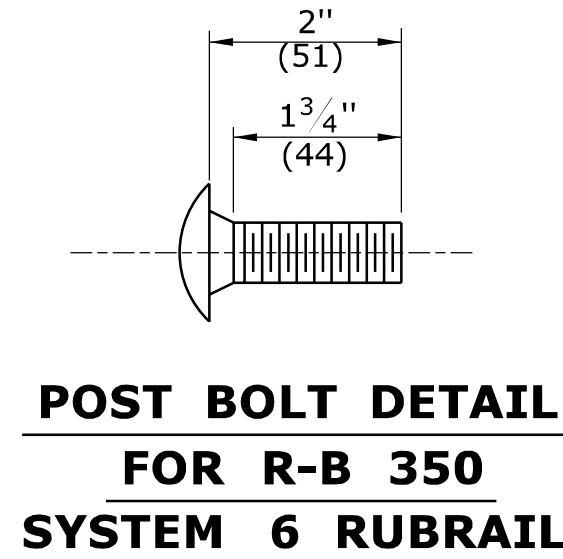
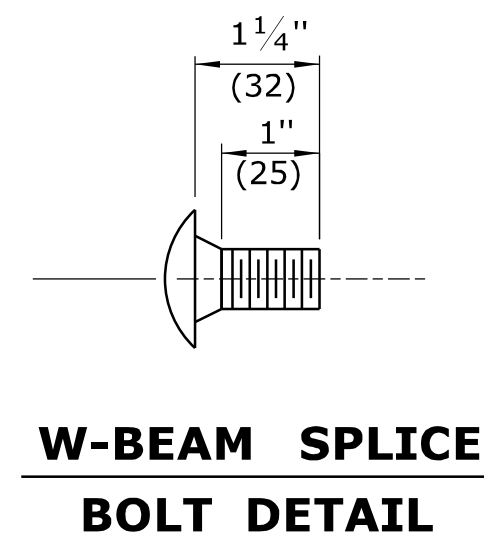
DELINEATOR NOTES:

- DELINEATORS SHALL BE FORMED OF .080 POLY-CARBONATE OR .080 SHEET ALUMINUM IN ACCORDANCE WITH M.18.13.
- REFLECTIVE SHEETING SHALL CONFORM TO M.18.09.2.
- DELINEATORS SHALL BE INSTALLED ON THE POST CLOSEST TO THE DESIGNATED SPACING.
- REFLECTIVE SHEETING SHALL BE WHITE EXCEPT ON THE LEFT SIDE OF DIVIDED STREETS, HIGHWAYS, RAMPS, AND ONE WAY ROADS IN THE DIRECTION OF TRAVEL WHERE IT SHALL BE YELLOW.
- INSTALL DELINEATORS ON RAIL THAT IS PARALLEL TO AND NOT GREATER THAN 6'(1829) FROM THE EDGE OF THE ROADWAY. A MINIMUM OF THREE DELINEATORS MUST BE INSTALLED ON ANY RUN OF RAIL.

DELINEATOR SPACING:
RADIUS \geq 300'(91440) - SPACE EVERY 50'(15.24m)
RADIUS $<$ 300'(91440) - SPACE EVERY 25'(7.62m)

**SELECTION THRU RAIL ELEMENT
END VIEW**

**TYPICAL W-BEAM RAIL ELEMENT
CLASS A, TYPE II**

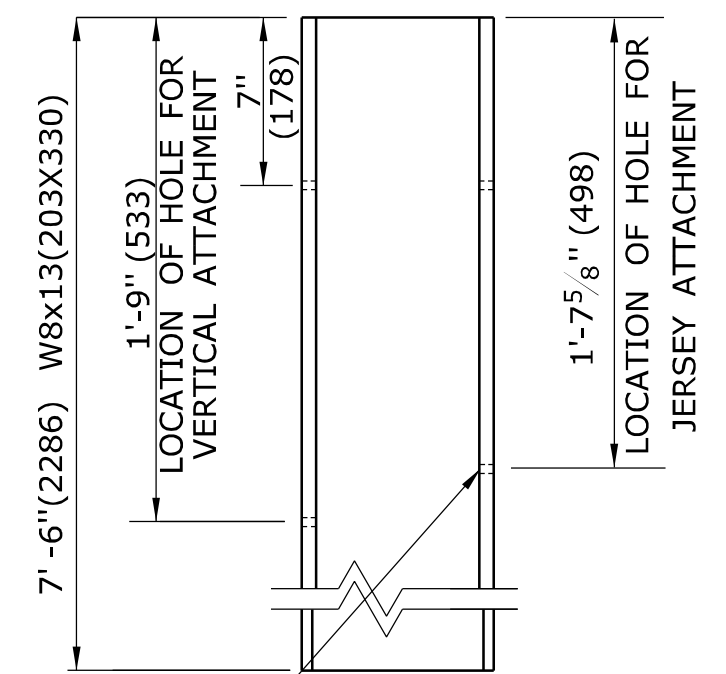
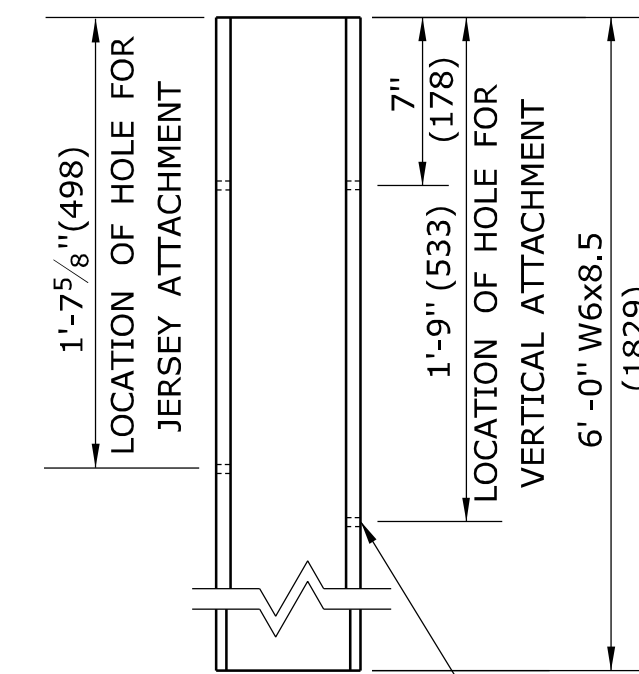


**W-BEAM SPLICE
BOLT DETAIL**

**POST BOLT DETAIL
FOR R-B 350
SYSTEM 6 RUBRAIL**

**POST BOLT DETAIL FOR R-B 350
AND MD-B 350 GUIDERAIL**

PLAN

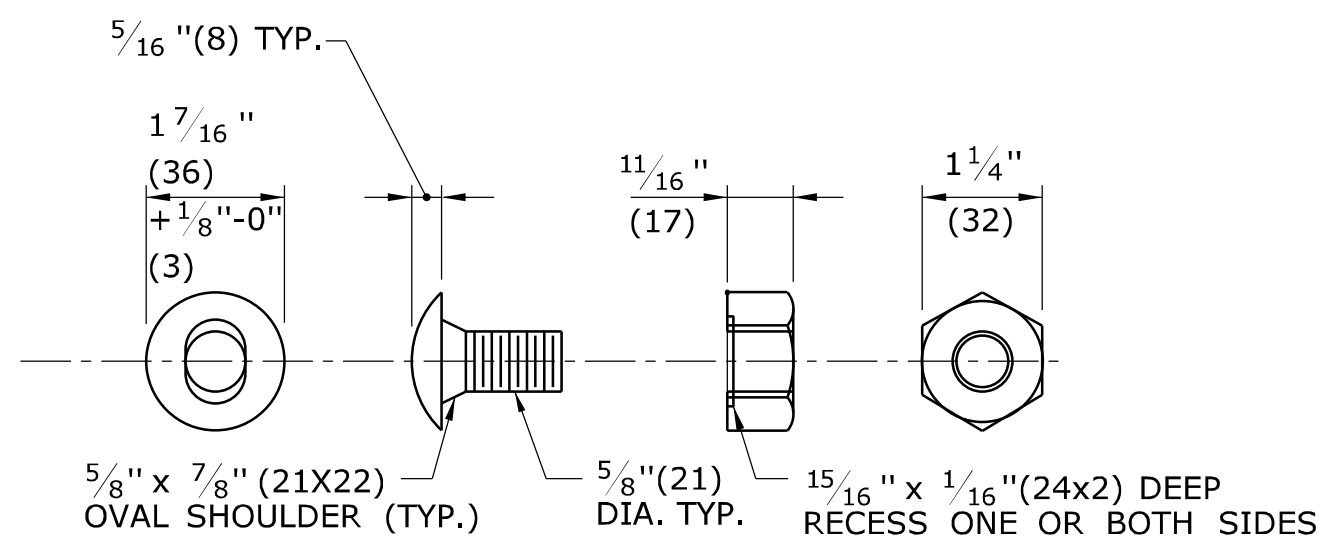


**W6x8.5 POST
(W150x13)
6'-0"(1829) LONG**

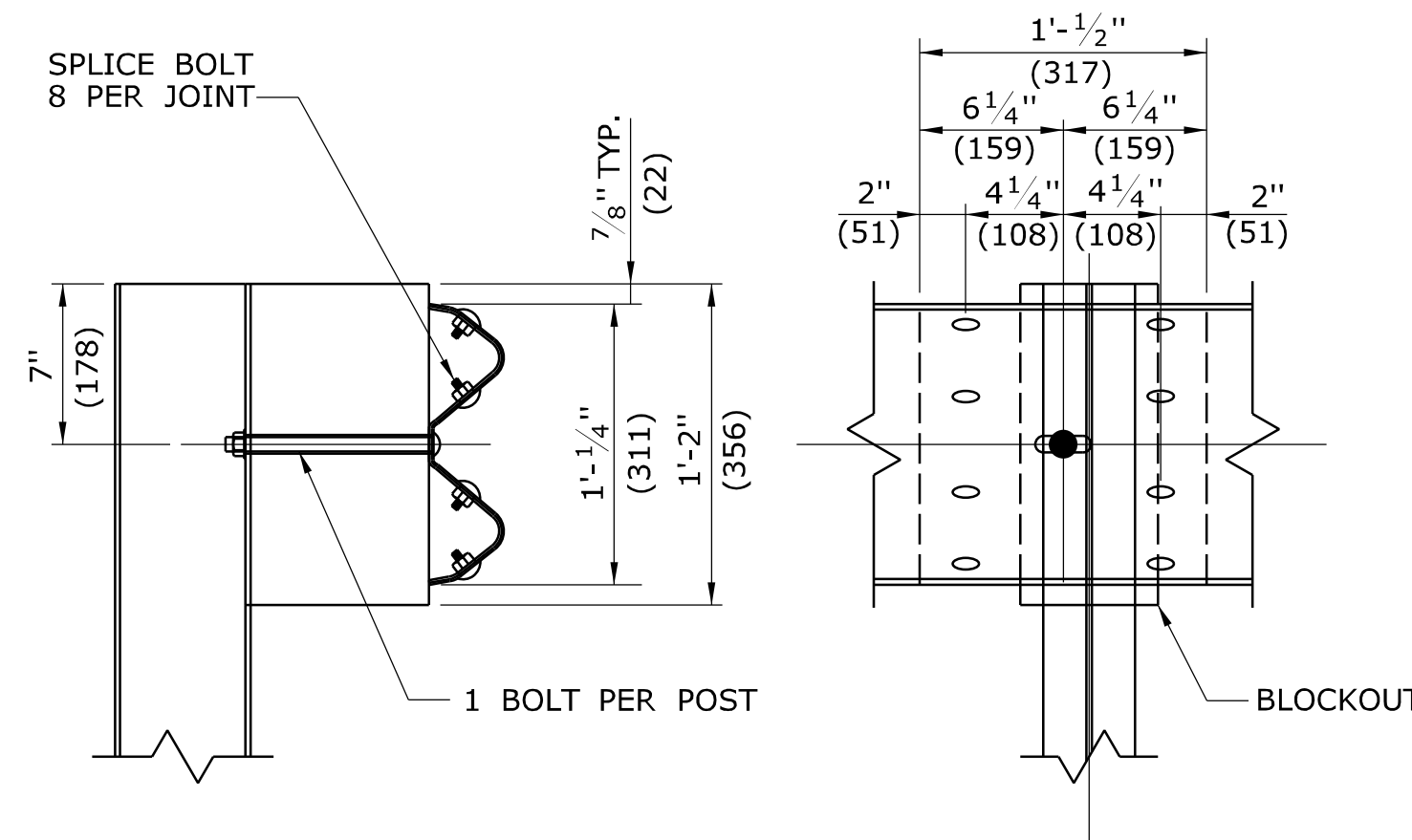
**W8x13 POST
(W200x19)
7'-6"(2286) LONG**

**BOLT HOLE LAYOUT FOR W8x13(W200x19)
AND W6x8.5 (W150x13) UNIFORM POST**

(REFER TO GENERAL NOTES)

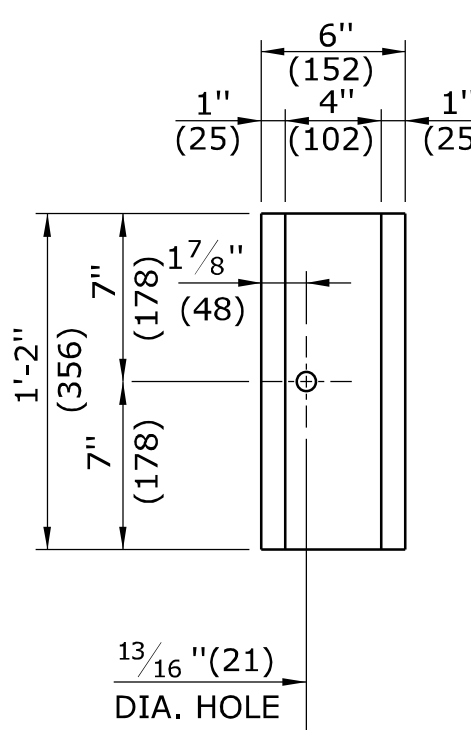


NOTE: AFTER GALVANIZING, THE NUT SHALL BE FREE RUNNING ON THE BOLT. DIAMETER SHOWN IS TYPICAL FOR ALL GUIDERAIL BOLTS. SEE DETAILS ABOVE FOR SPECIFIC LENGTHS.



LAP DETAIL

NOTE:
LAP RAIL SECTION IN DIRECTION OF TRAFFIC

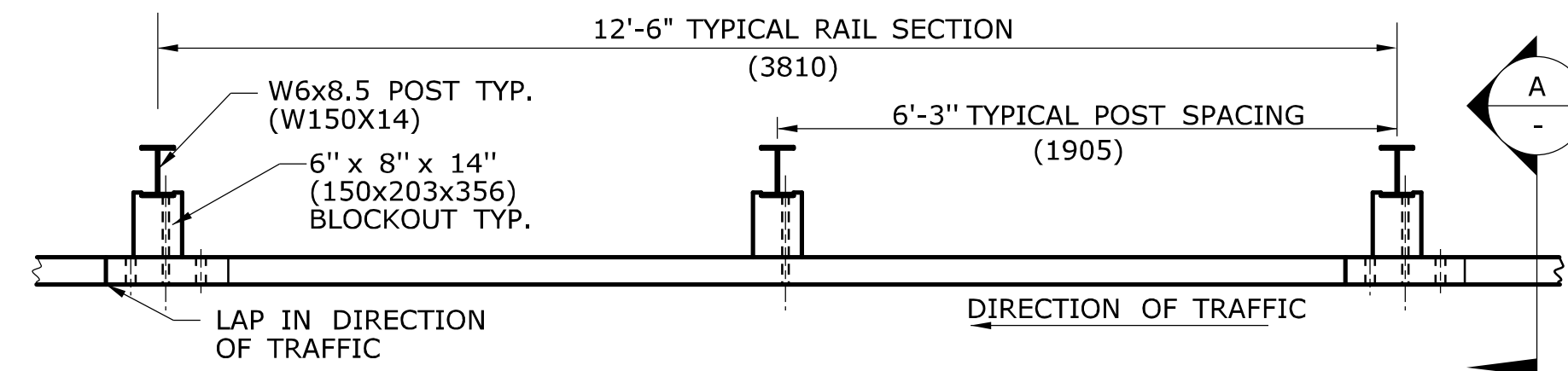


ALL METRIC DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED.

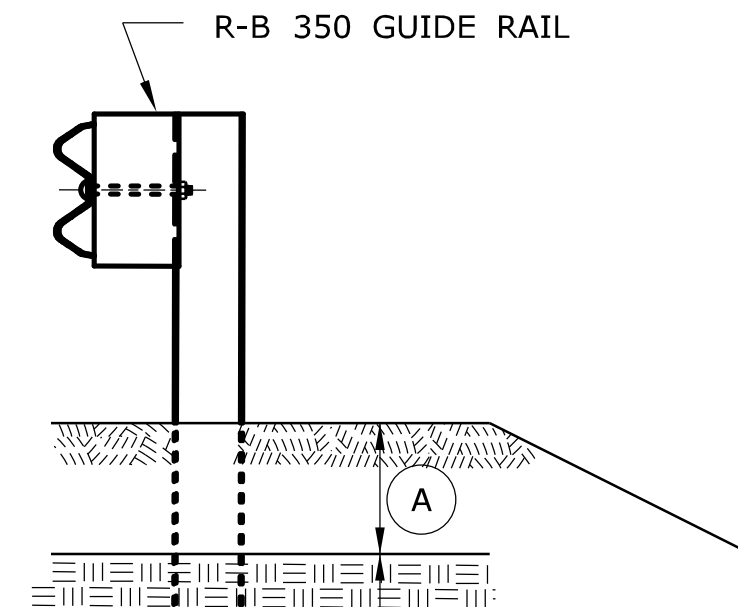
1	6/11	REMOVE WEATHERING STEEL NOTES	-	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	NOT TO SCALE		SUBMITTED BY: [Signature] NAME/DATE/TIME: [Blank] APPROVED BY: [Signature] NAME/DATE/TIME: James H. Norman 2011.06.09 15:12:16 -04'00'	CTDOT STANDARD SHEET OFFICE OF ENGINEERING	STANDARD SHEET TITLE: W-BEAM METAL BEAM RAIL HARDWARE	STANDARD SHEET NO.: HW-910_01
REV.	DATE	REVISION DESCRIPTION		Plotted Date: 5/10/2011	Filename: CTDOT_HIGHWAY STD_JUNE2011.dgn Model: 36-HW-910_01					

GENERAL NOTES:

- SEE SHEET HW-910_01 FOR HARDWARE AND DELINEATOR DETAILS.
- MAXIMUM DESIGN DEFLECTION FOR R-B 350 GUIDERAIL AT THE STANDARD POST SPACING OF 6'-3"(1905) IS 4'-3"(1295). DEFLECTION REQUIREMENT IS MEASURED FROM THE BACK OF POST TO THE FACE OF OBJECT.
- FOR CURVES WITH RADII OF 150'(45.7m) OR LESS, ALL RAIL ELEMENTS SHALL BE SHOP FABRICATED TO THE PROPER RADIUS AND GALVANIZED AFTER FABRICATION. RADIUS RAIL WHEN REQUIRED AND NOTED ON THE PLANS, IS INCLUDED IN THE PAY ITEM FOR GUIDERAIL.
- RAIL HEIGHT WITH CURBING SHALL BE MEASURED FROM THE TOP OF PAVEMENT. ON HIGH SPEED ROADWAYS ($\geq 45\text{mph}$ 72.4kph), 4"(102) CURBING MAY BE USED IN CONJUNCTION WITH GUIDERAIL AND THE RAIL ELEMENT SHALL BE PLACED FLUSH WITH THE FACE OF CURB. ON LOW SPEED ROADWAYS ($< 45\text{mph}$ 72.4kph), 6"(152) CURBING MAY BE USED IN CONJUNCTION WITH GUIDERAIL AND THE RAIL ELEMENT SHALL BE PLACED A MAXIMUM OF 9"(229) BEHIND THE FACE OF CURB.
- THREE BLOCKOUTS MAY BE USED FOR ONE POST ONLY. TWO BLOCKOUTS MAY BE USED FOR A SERIES OF POSTS. THE COST OF ADDITIONAL BLOCKOUTS AND LONGER BOLTS SHALL BE INCLUDED IN THE BID PRICE PER FOOT OF GUIDERAIL. EXTRA BLOCKOUTS AT TRANSITION TO BRIDGE PARAPETS SHOULD BE AVOIDED.
- W-BEAM GUIDERAIL MAY BE PLACED 1'(305) OR MORE FROM THE EDGE OF PAVEMENT ONLY ON SLOPES 10:1 OR FLATTER AND WITHOUT CURBING. IF THE RAIL IS INSTALLED WITHIN 2'(610) OF THE EDGE OF PAVEMENT, THE RAIL HEIGHT IS MEASURED FROM THE SHOULDER SLOPE EXTENDED TO THE RAIL. IF THE RAIL IS INSTALLED BEYOND 2'(610) FROM THE EDGE OF PAVEMENT, THE RAIL HEIGHT IS MEASURED FROM THE GROUND DIRECTLY BELOW THE RAIL.
- ALL R-B 350 GUIDERAIL TYPES INSTALLED ON EXPRESSWAYS AND RAMPS SHALL USE CLASS B, TYPE-II (10 GAUGE) W-BEAM RAIL ELEMENTS.
- 20" (507) DIA. EXCAVATED HOLE SHALL BE BACKFILLED WITH SUITABLE MATERIAL, OR GRANULAR FILL COMPACTED IN 6" (150) LIFTS BEFORE DRIVING POST OR POSTS MAY BE SET IN EXCAVATED HOLE AND BACKFILLED WITH CONTROLLED LOW STRENGTH MATERIAL (CLSM). 8" (203) DIA. HOLE SHALL BE BACKFILLED WITH SUITABLE MATERIAL.
- AS DIRECTED BY THE ENGINEER AND WHERE PAVEMENT FOR RAILING IS NOT BEING INSTALLED, A MIN. 6" DEPTH OF PROCESSED AGGREGATE SHALL BE INSTALLED FROM THE PAVEMENT EDGE OR BACK OF CURB TO A MINIMUM OF 2' (610) BEHIND THE GUIDERAIL POST AND COMPACTED IN 6" (150) LIFTS.
- MINIMUM RAIL HEIGHT FOR NEW CONSTRUCTION SHALL BE 29" (737) \pm 1" (25).



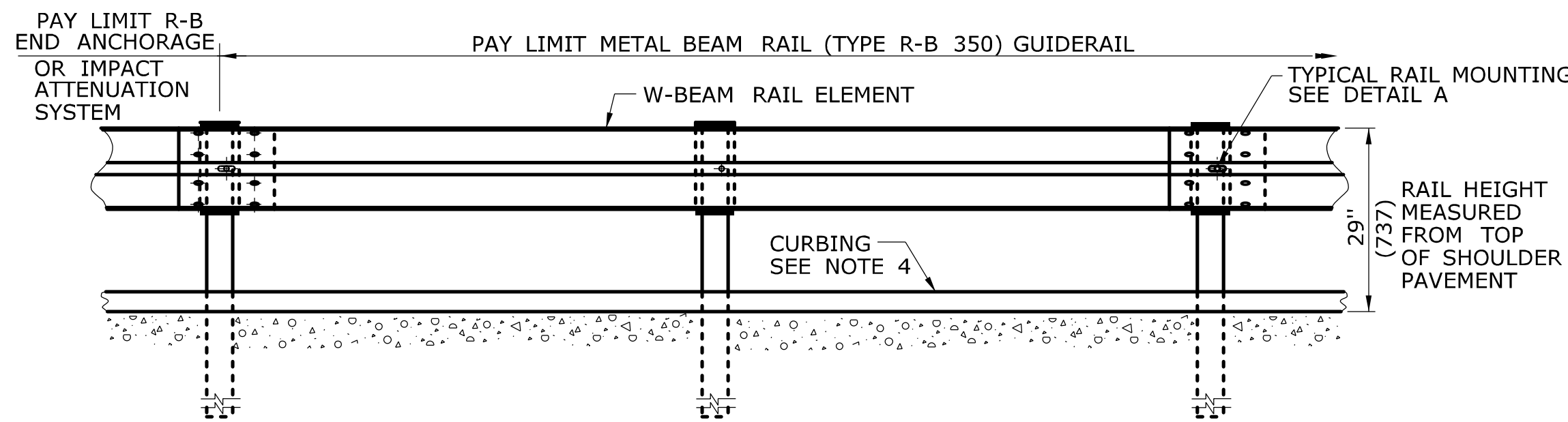
PLAN



ELEVATION
(SEE NOTE 8)

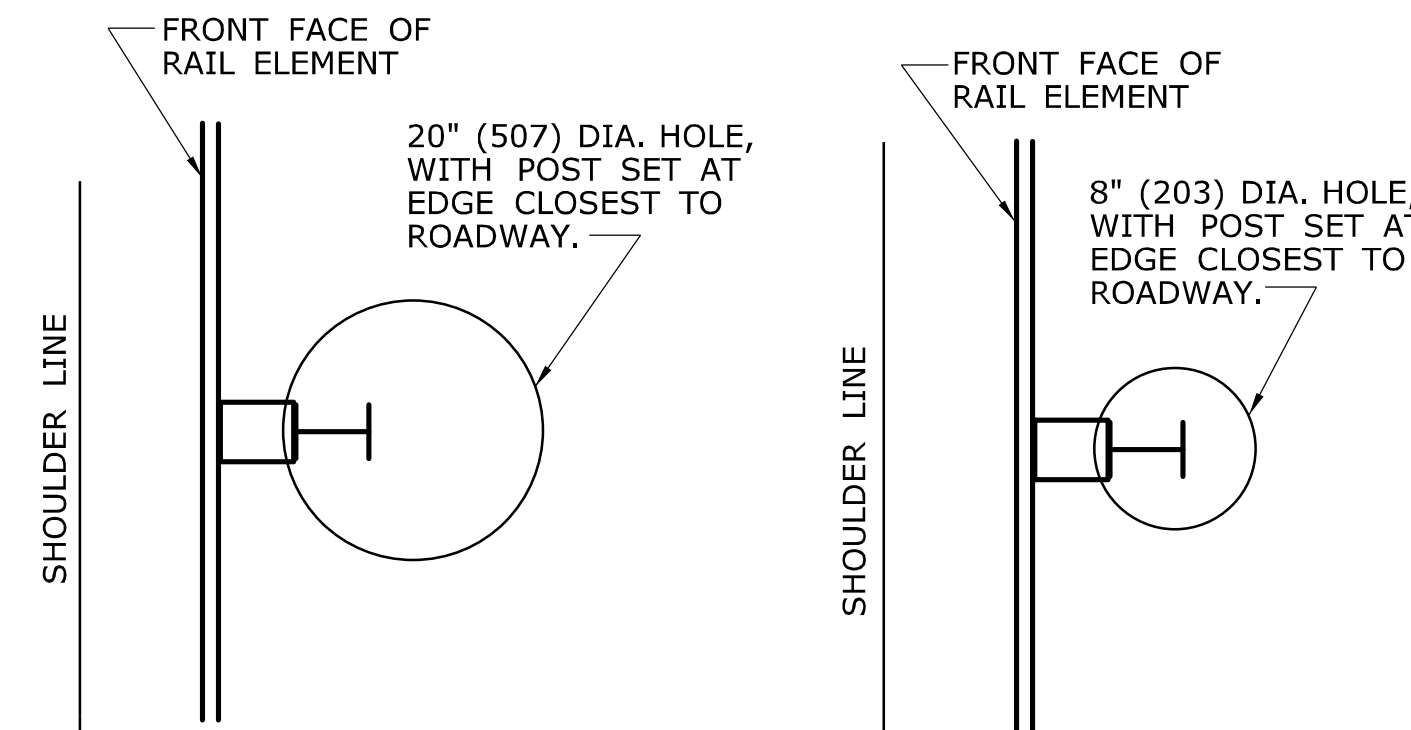
CONDITION 1 :
IF SOIL DEPTH IS $\leq 18"$ (457) DEEP (A) DRILL 20" (507) DIA. HOLE 24" (610) INTO LEDGE. (B)

CONDITION 2 :
IF SOIL DEPTH IS $> 18"$ (457) DEEP (A) DRILL 8" (203) DIA. HOLE 1' (305) INTO LEDGE (B) OR TO THE DEPTH OF FULL EMBEDMENT OF 42 1/8" (1070) WHICHEVER IS LESS.



ELEVATION

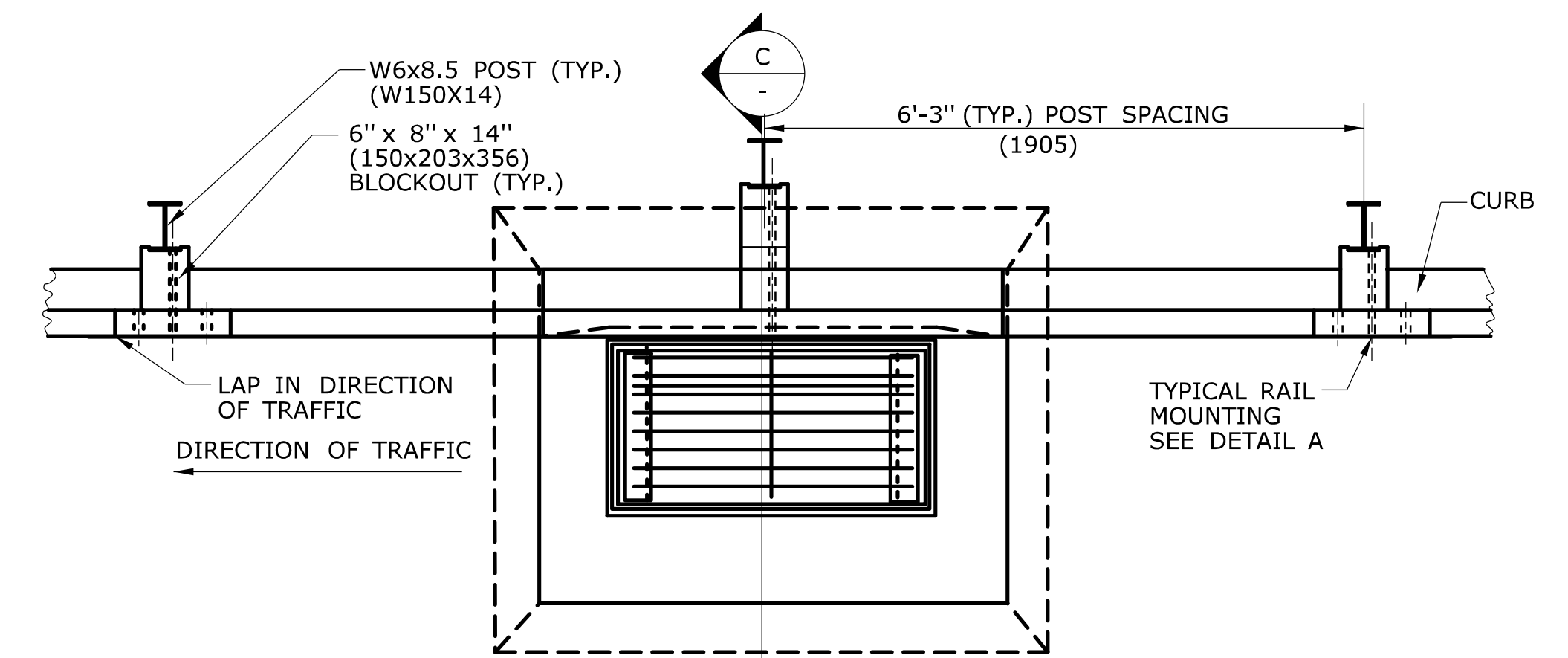
METAL BEAM RAIL (TYPE R-B 350)



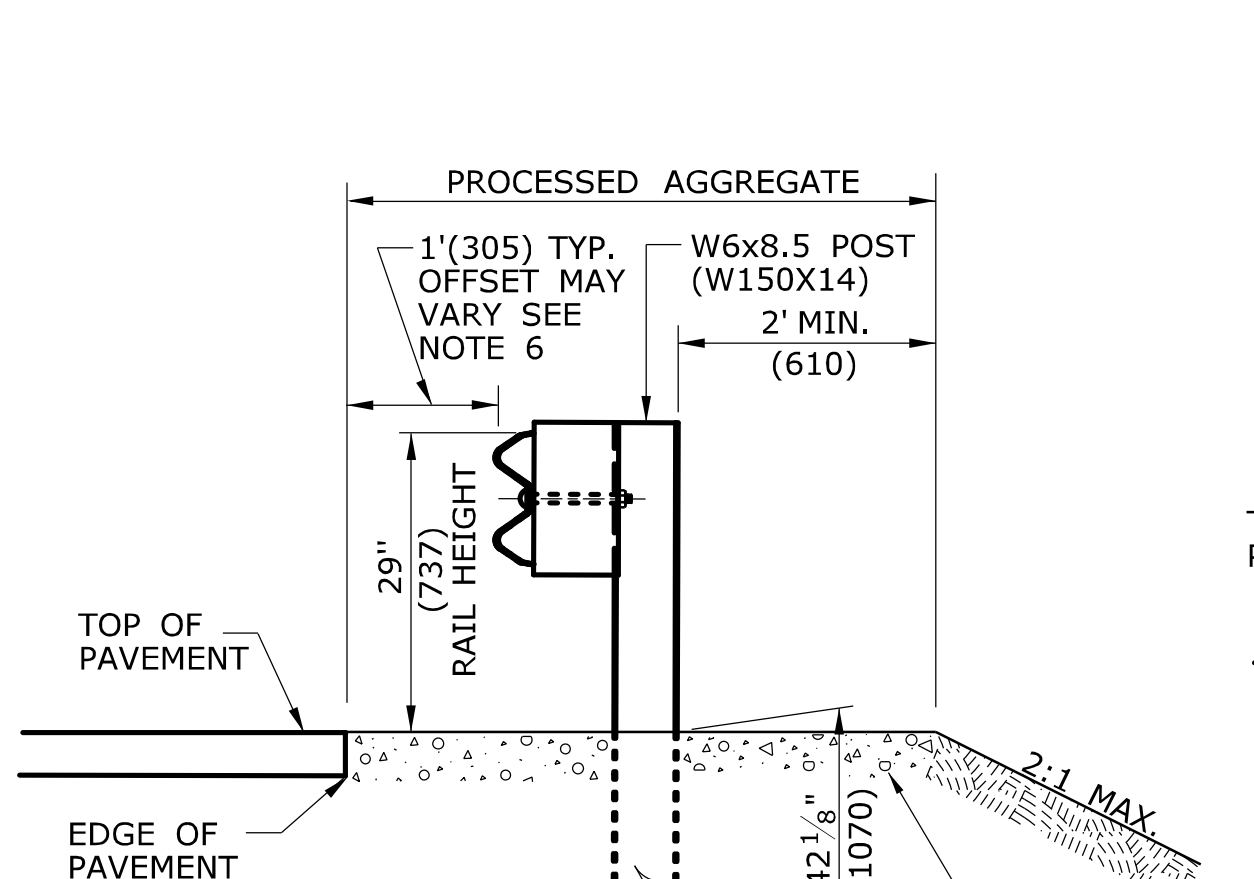
PLAN CONDITION 1
(SEE NOTE 8)

PLAN CONDITION 2
(SEE NOTE 8)

DRILLING IN ROCK FOR GUIDERAIL POSTS

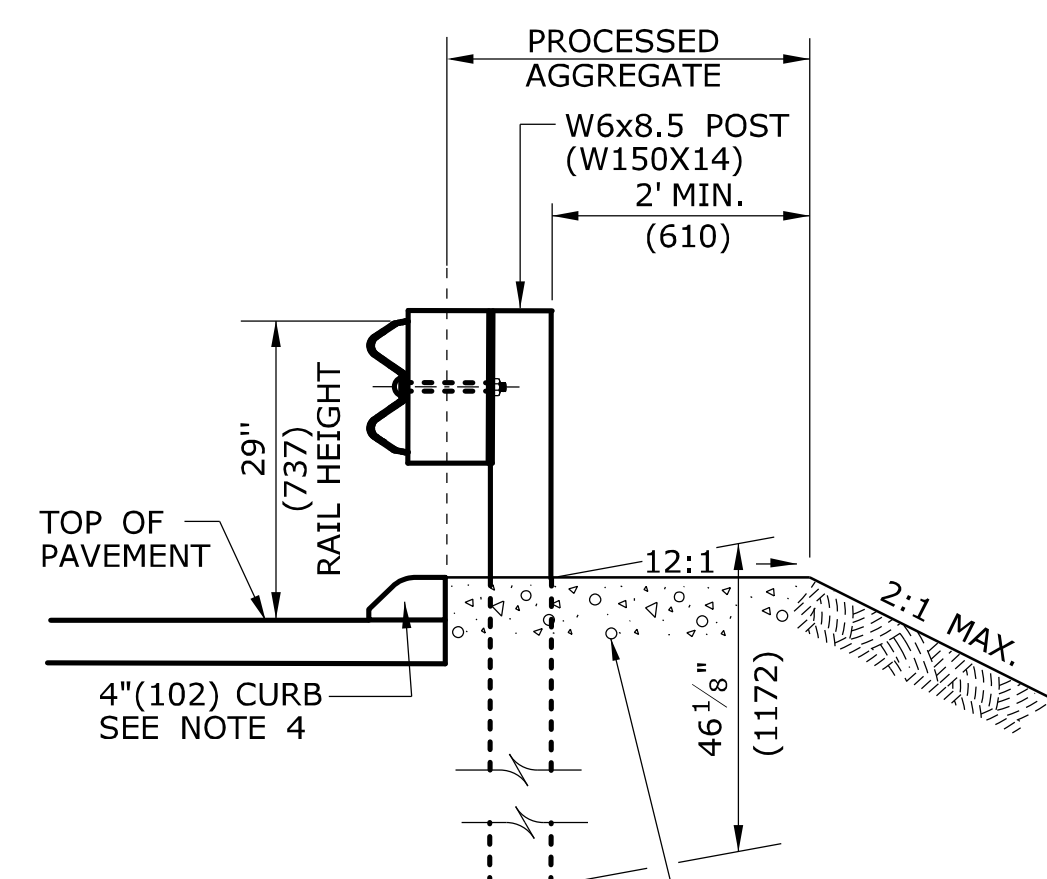


PLAN



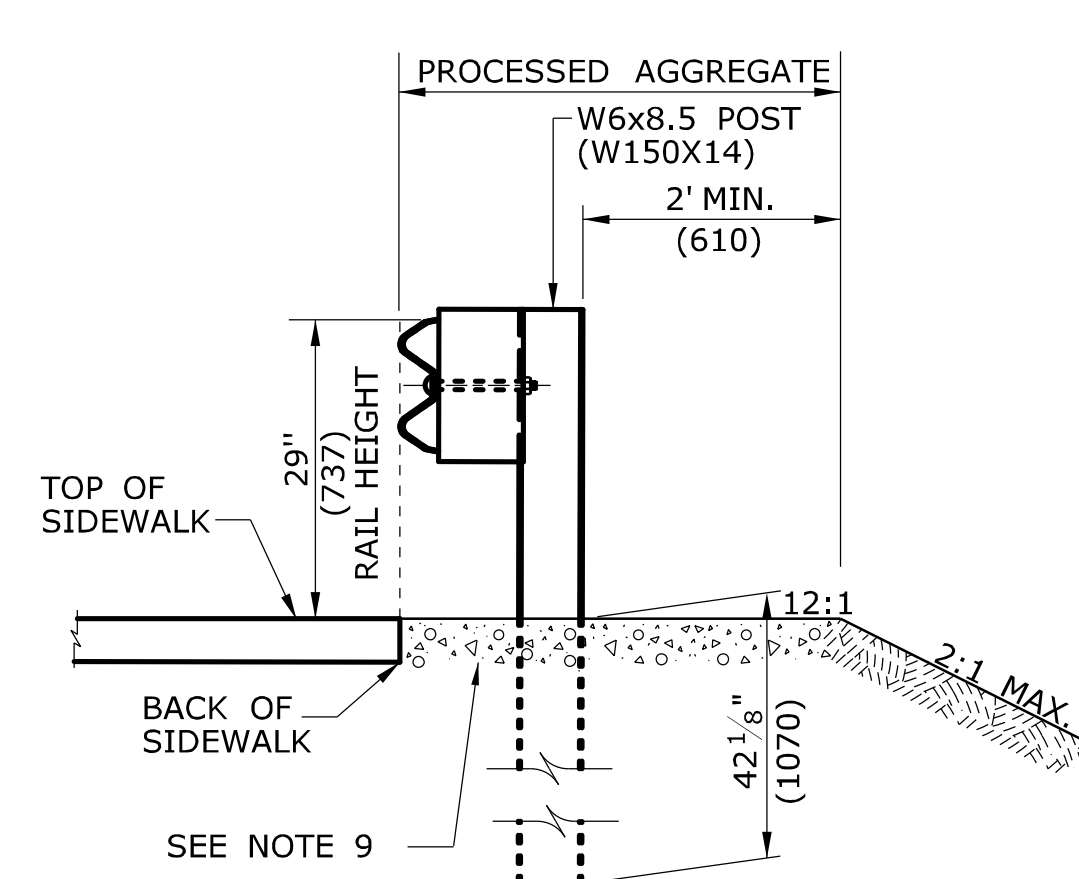
SECTION A

NO CURB APPLICATION



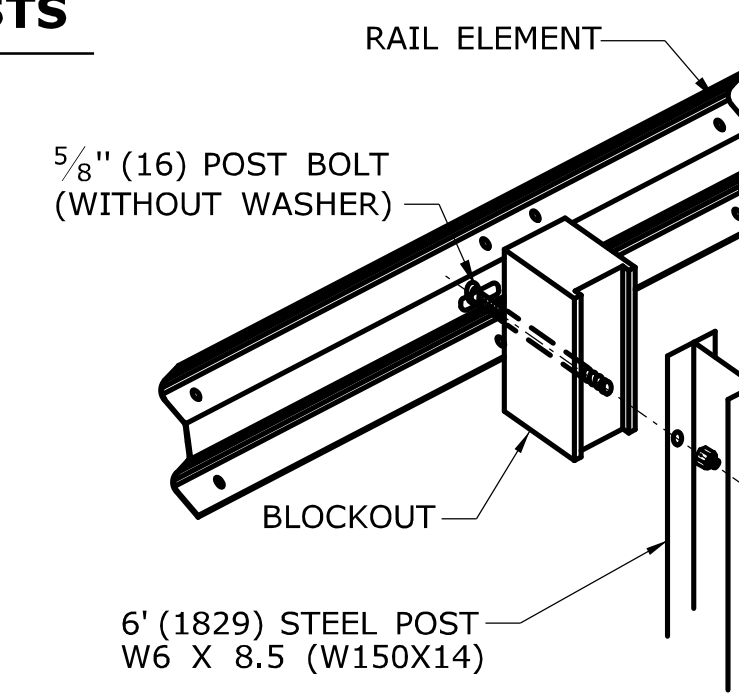
SECTION A

CURB APPLICATION

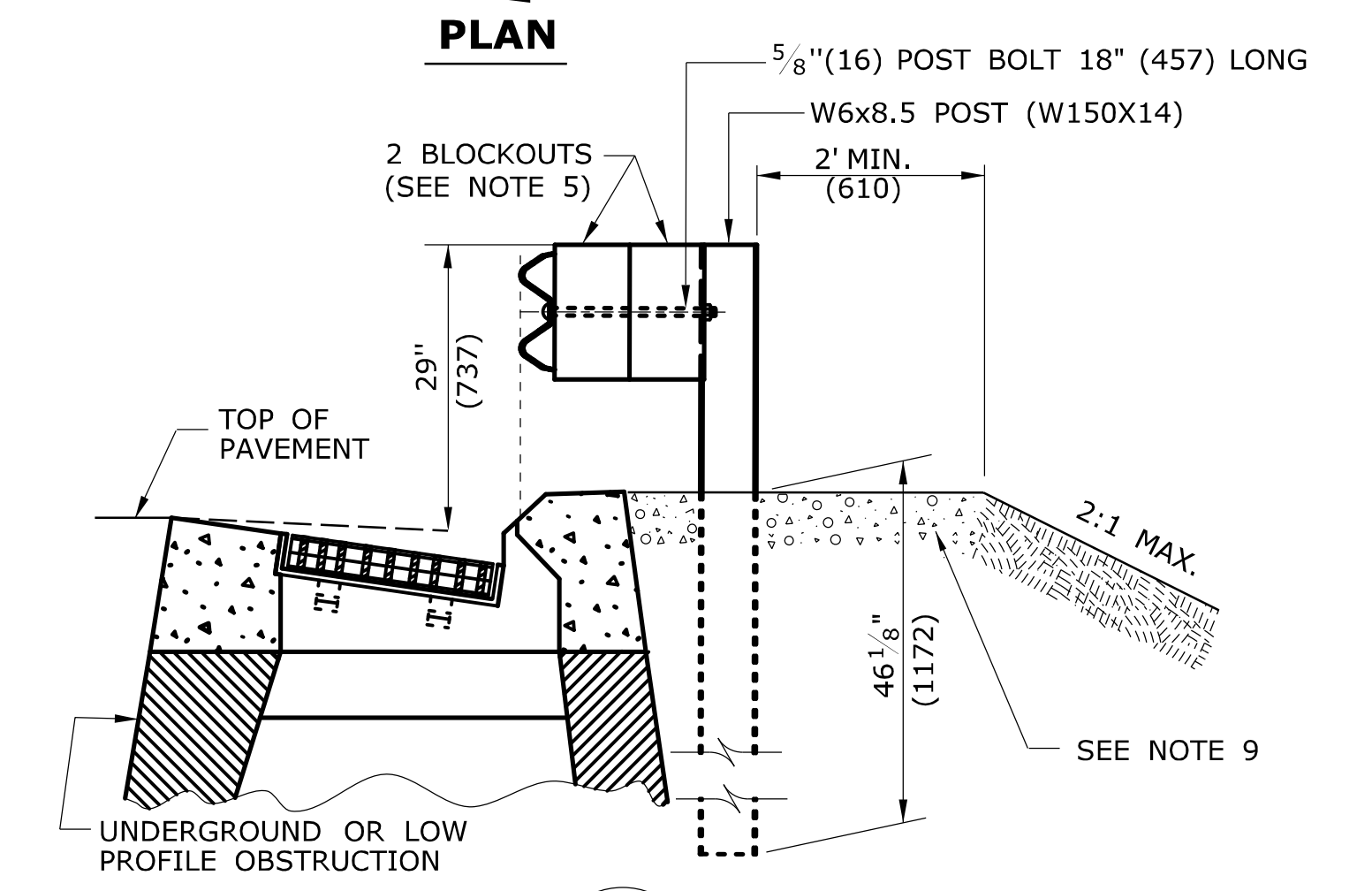


SECTION A

SIDEWALK APPLICATION



DETAIL A
RAIL MOUNTING



SECTION C

MULTIPLE BLOCKOUT APPLICATION (MAY BE USED TO AVOID UNDERGROUND OR LOW PROFILE OBSTRUCTION)

1	6/11	REVISED NOTE 9 FOR USE OF PROCESSED AGGREGATE AND REMOVED NOTE 6 FOR WEATHERING STEEL	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
REV.	DATE	REVISION DESCRIPTION	

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: 5/10/2011

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

File name: CTDOT_HIGHWAY STD_JUNE2011.dgn Model: 37- HW-910_02

SUBMITTED BY: [Signature]

NAME/DATE/TIME: [Blank]

APPROVED BY: [Signature]

NAME/DATE/TIME: James H. Norman
2011.06.09 15:12:46 -04'00'

CTDOT
STANDARD SHEET

OFFICE OF ENGINEERING

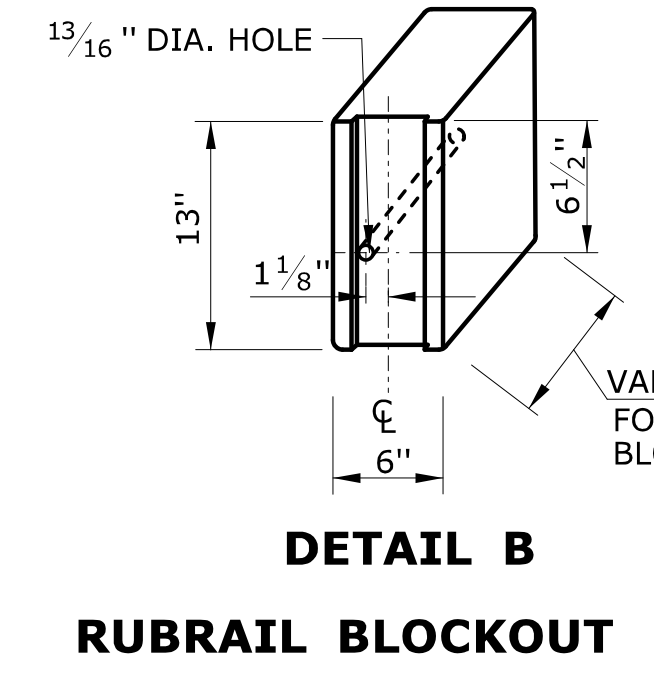
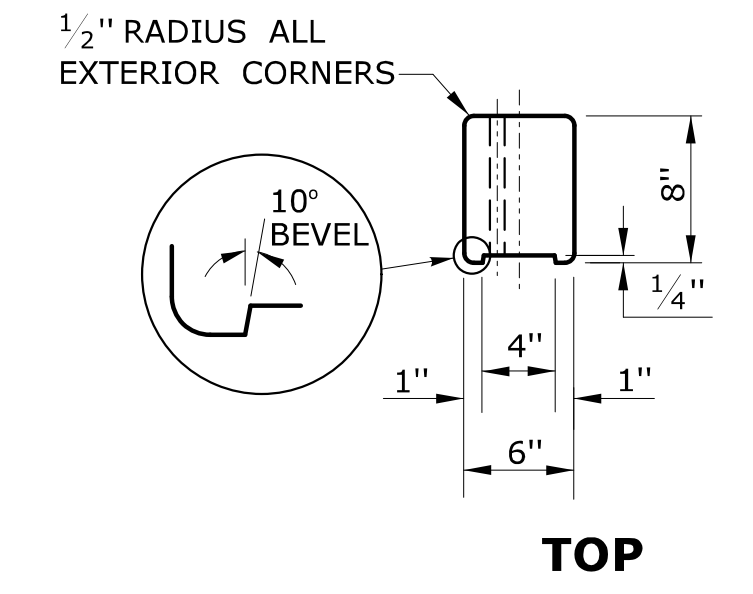
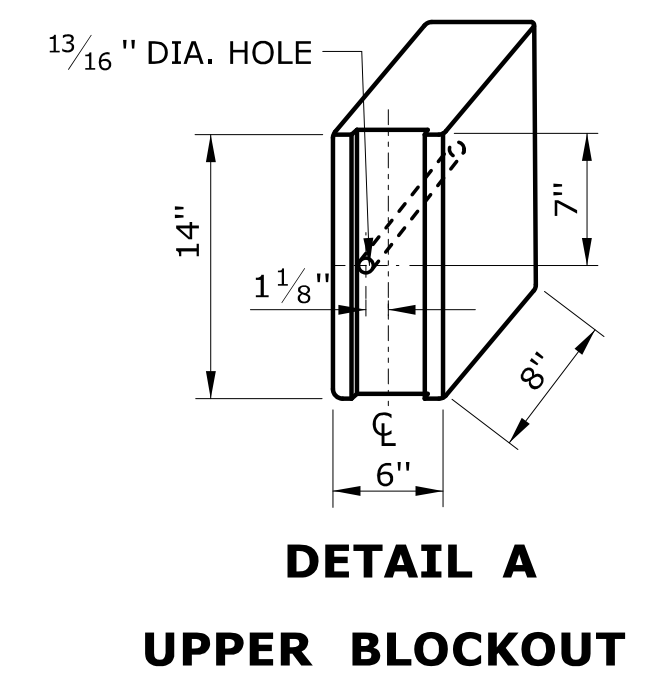
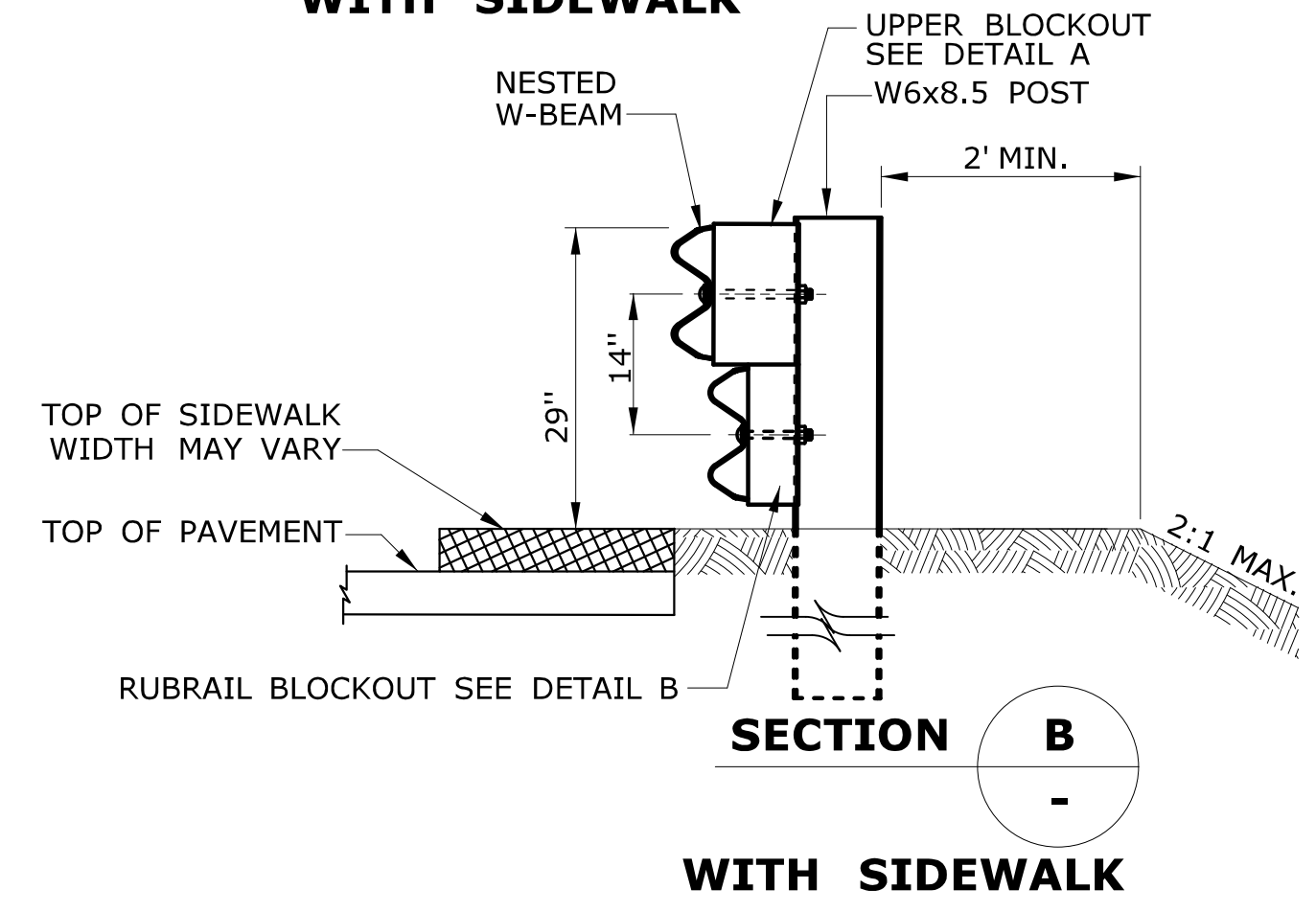
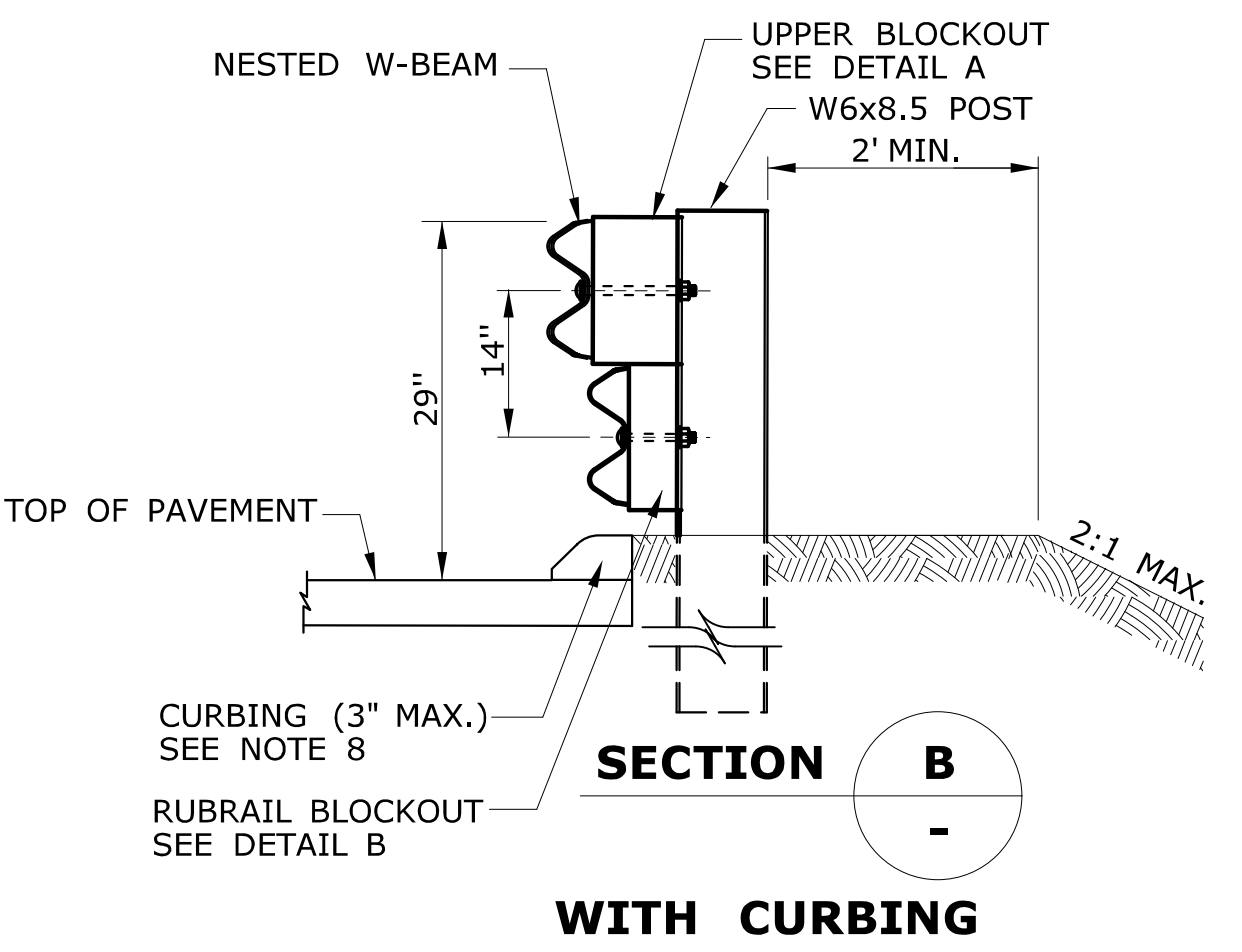
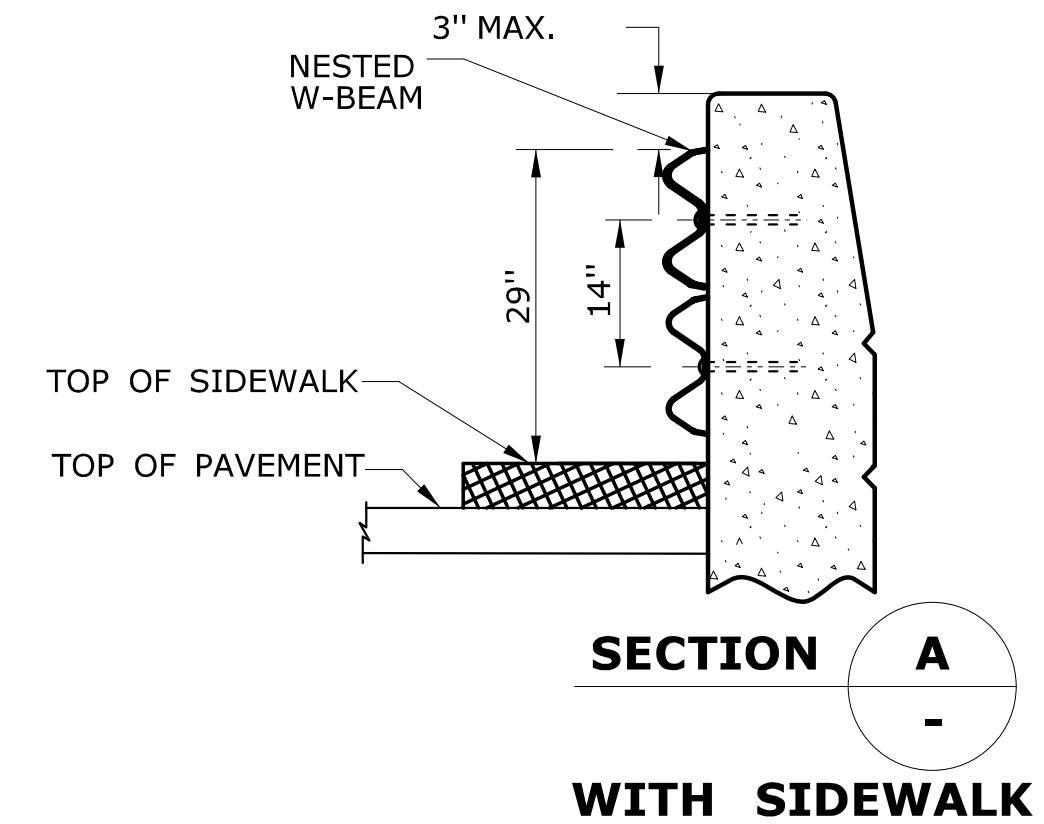
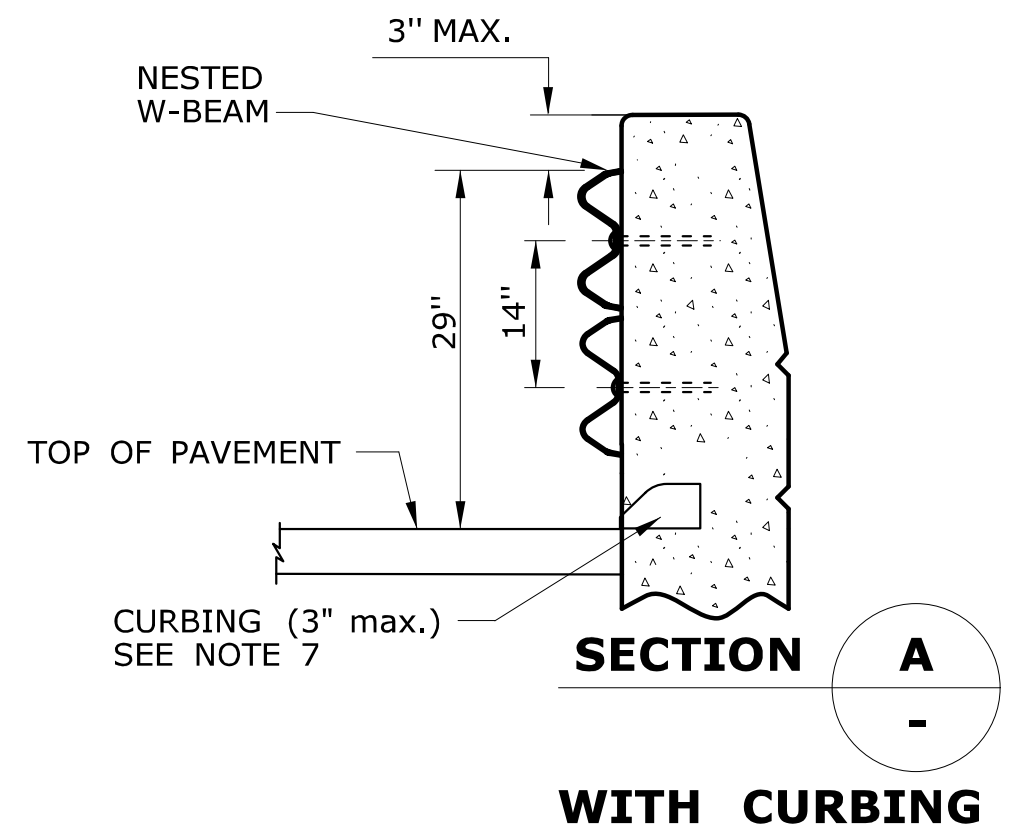
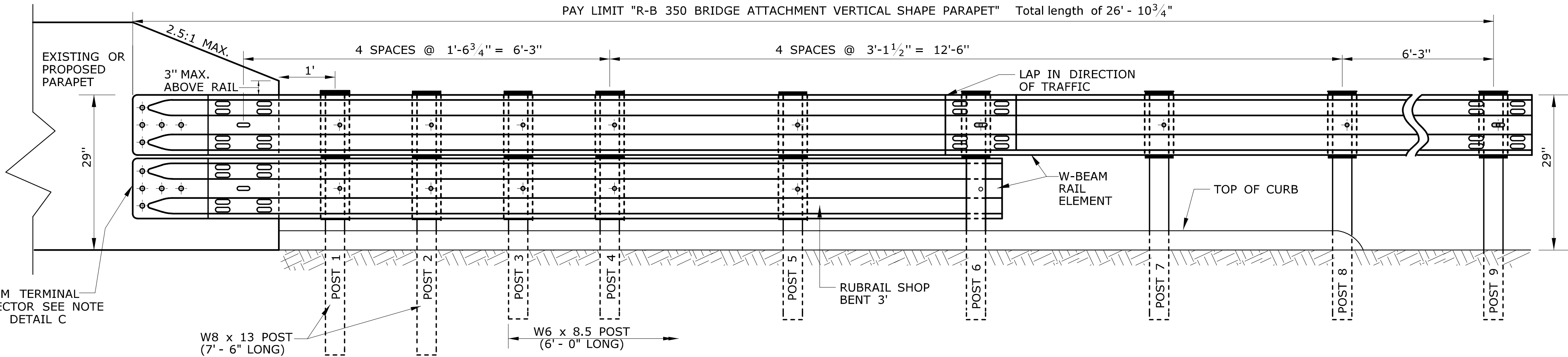
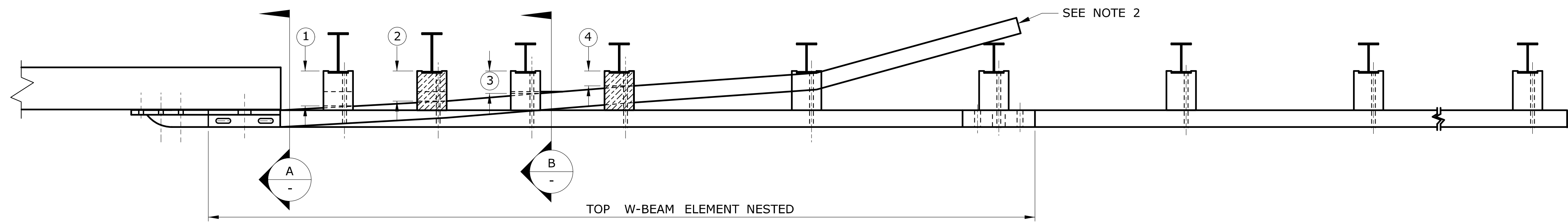
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STANDARD SHEET NO.: **HW-910_02**

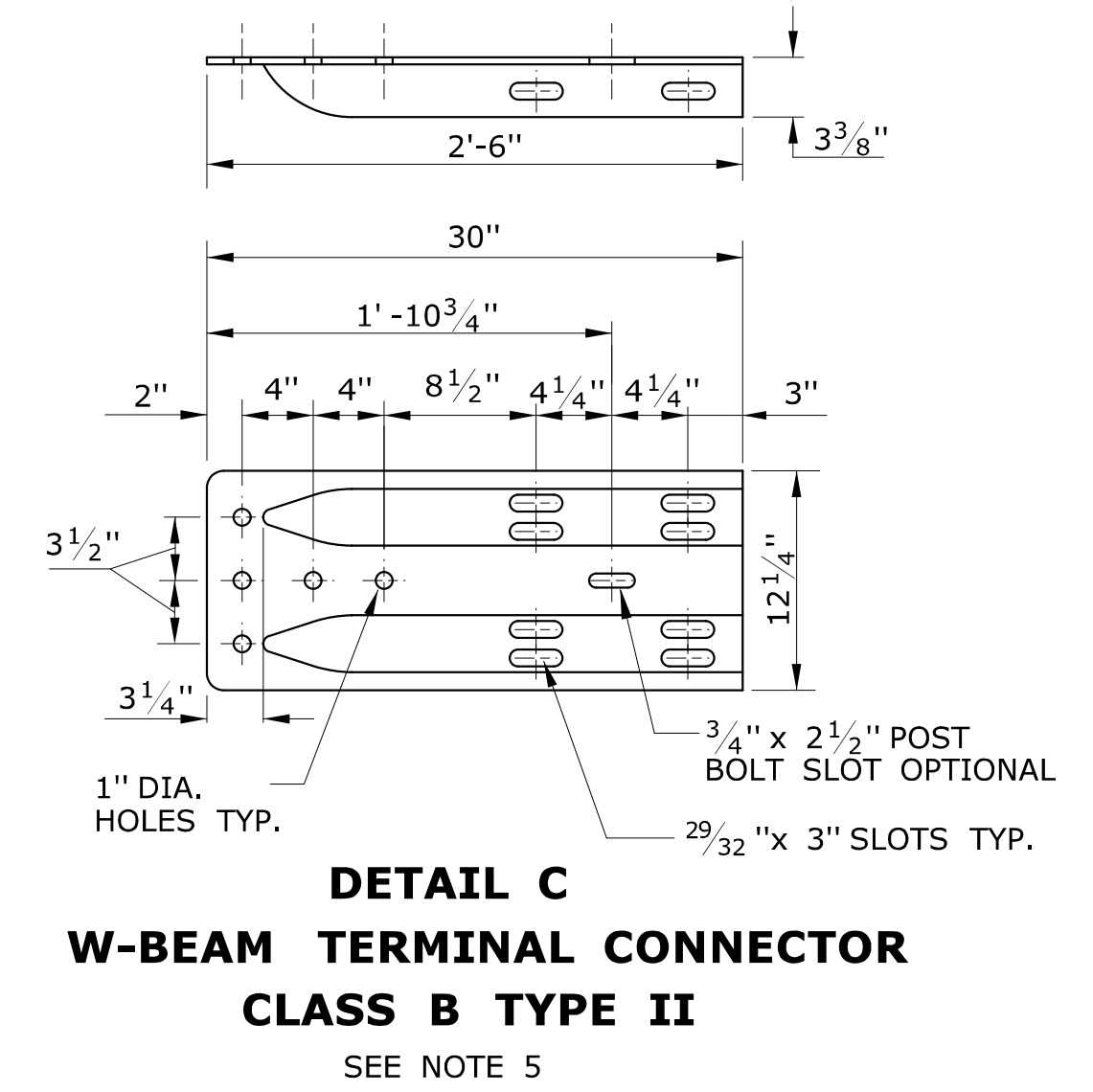
ALL METRIC DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED.

GENERAL NOTES:

- RUBRAIL BLOCKOUTS FOR POSTS 1 THROUGH 4 ARE ATTACHED TO POST AND RAIL WITH A 5/8" BUTTONHEAD BOLTS (SEE CHART FOR BOLT LENGTH). RUBRAIL ONLY IS ATTACHED TO POST 5 WITH A 5/8" x 1 1/4" BUTTONHEAD BOLT.
- THE RUBRAIL SHALL BE SHOP BENT IN THE LAST 3' TO FACILITATE INSTALLATION. DO NOT ATTACH RUBRAIL TO BACK OF POST 6.
- ANCHORAGE:
 (A) AT EXISTING PARAPETS EACH W-BEAM TERMINAL CONNECTOR SHALL BE ANCHORED USING FOUR 7/8" x 12" CHEMICALLY ANCHORED BOLTS WITH WASHERS OR AS DETAILED ON STRUCTURE SHEETS. MAXIMUM BOLT PROJECTION BEYOND THE NUT SHALL BE 1/2". THE 12" MINIMUM LENGTH OF CHEMICALLY ANCHORED BOLTS SHALL INCLUDE A MINIMUM EMBEDMENT DEPTH OF 10" INTO SUITABLY REINFORCED CONCRETE OR AS RECOMMENDED BY THE MANUFACTURER OF BONDING MATERIAL.
 (B) FOR NEW PARAPETS OR BARRIERS, THE W-BEAM TERMINAL CONNECTORS SHALL BE ANCHORED AS DETAILED ON THE STRUCTURE SHEETS.
- ADDITIONAL BLOCKOUTS WITH POSTS 1 THROUGH 6 SHOULD BE AVOIDED.
- FOR SINGLE DIRECTION ROADWAY:
 INSTALL W-BEAM TERMINAL CONNECTOR BETWEEN NESTED GUIDE RAIL ELEMENTS.
 FOR DUAL DIRECTION ROADWAY FOR APPROACHING TRAFFIC:
 INSTALL W-BEAM TERMINAL CONNECTOR BETWEEN NESTED GUIDE RAIL ELEMENTS.
 FOR TRAILING END:
 INSTALL W-BEAM TERMINAL CONNECTOR OUTSIDE OF THE NESTED GUIDE RAIL ELEMENTS.
- MINIMUM RAIL HEIGHT FOR NEW CONSTRUCTION SHALL BE 29" +/- 1".
- USE MODIFIED 4" BITUMINOUS CONCRETE PARK CURBING REDUCED TO A 3 INCH REVEAL BENEATH THE RUBRAIL IF CURBING IS REQUIRED.



RUBRAIL BLOCKOUTS 13" HIGH x 6" WIDE		
POST	THICKNESS	BOLT LENGTH
①	7"	9"
②	6"	8"
③	4 1/2"	6"
④	3"	5"



REV.	DATE	REVISION DESCRIPTION
1	6/11	REVISED NOTE 9 FOR USE OF CHEMICAL ANCHORS
2	1/19	ADDED POST 9 TO PLAN & ELEVATION VIEW, REMOVED DETAIL D, AND REVISED RAIL HEIGHT REFERENCE AND GENERAL NOTES
-	-	-
-	-	-
-	-	-
-	-	-

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Plotted Date: 1/23/2019

NOT TO SCALE

STATE OF CONNECTICUT
 DEPARTMENT OF TRANSPORTATION

File name: CTDOT-HIGHWAY-STD-[1-23-19].dgn Model: 193 - HW-910.07

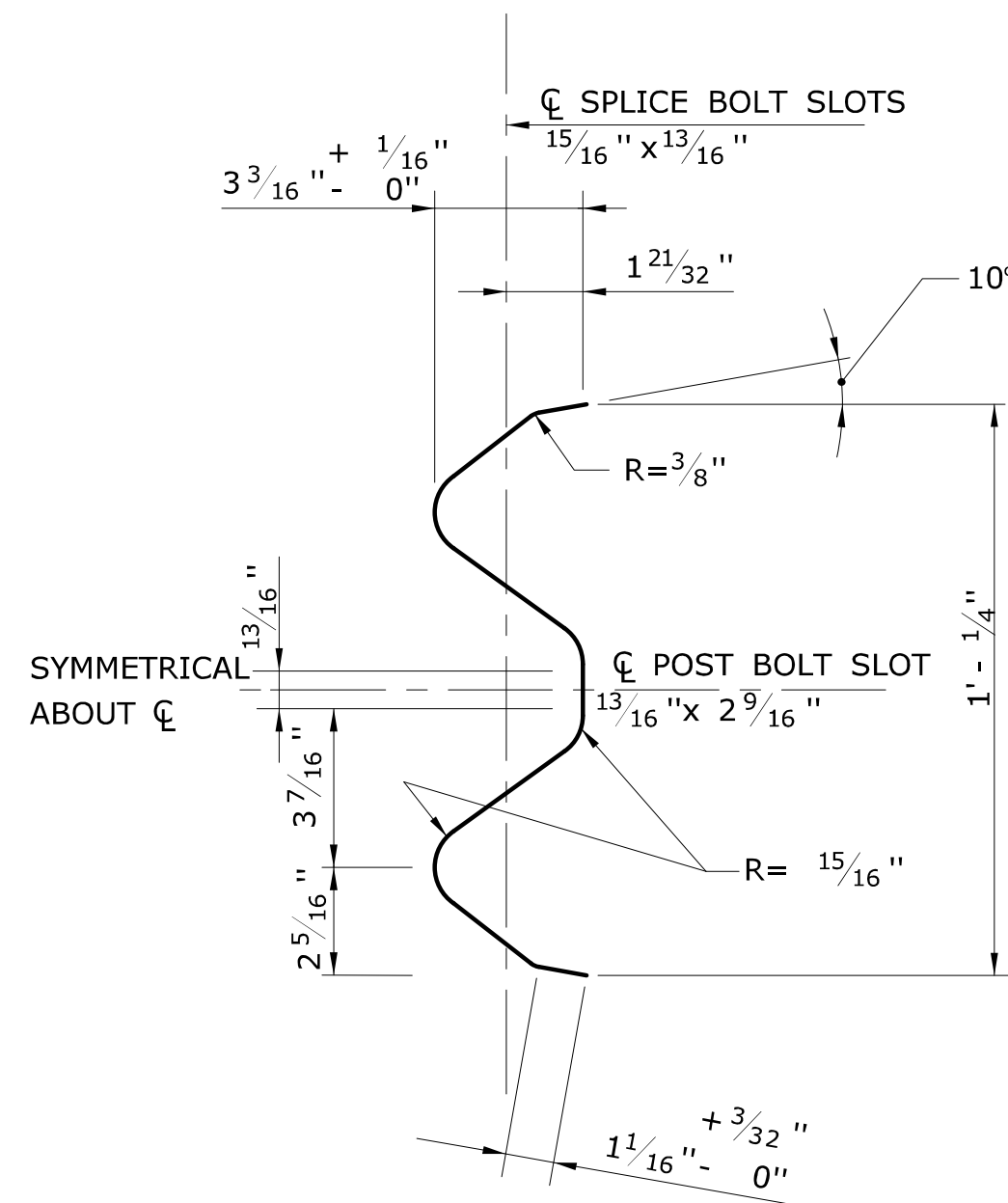
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 Leo Fontaine, P.E.
 2019.01.24 07:37:12-05'00'

APPROVED BY: NAME/DATE/TIME:
 Gregory M. Dorosh, P.E.
 2019.01.24 10:41:46-05'00'

CTDOT
 STANDARD SHEET
 OFFICE OF ENGINEERING

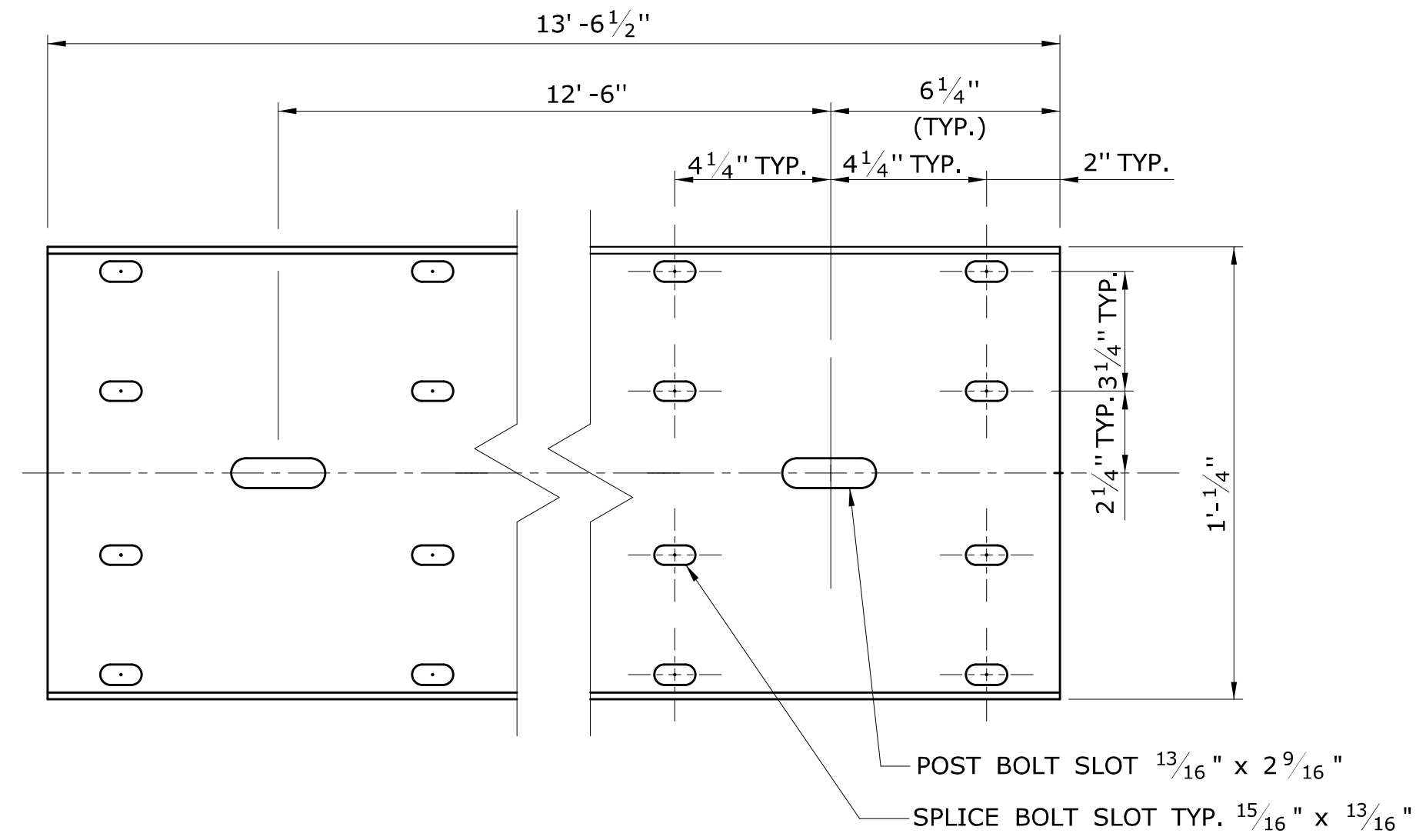
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**R-B 350 BRIDGE ATTACHMENT
 VERTICAL SHAPE PARAPET**

STANDARD SHEET NO.:
HW-910_07

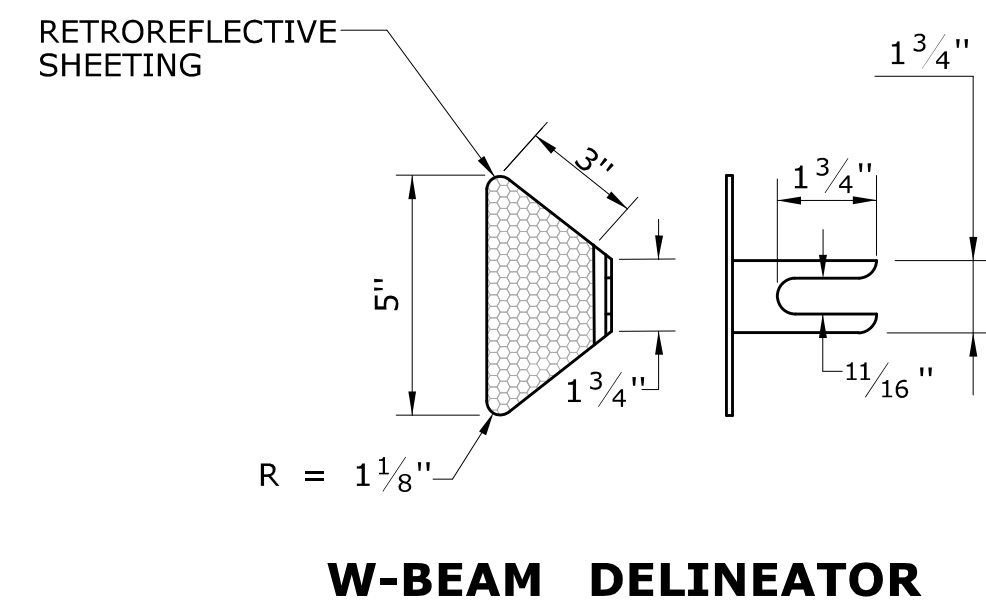


SECTION VIEW

TYPICAL W-BEAM RAIL ELEMENT

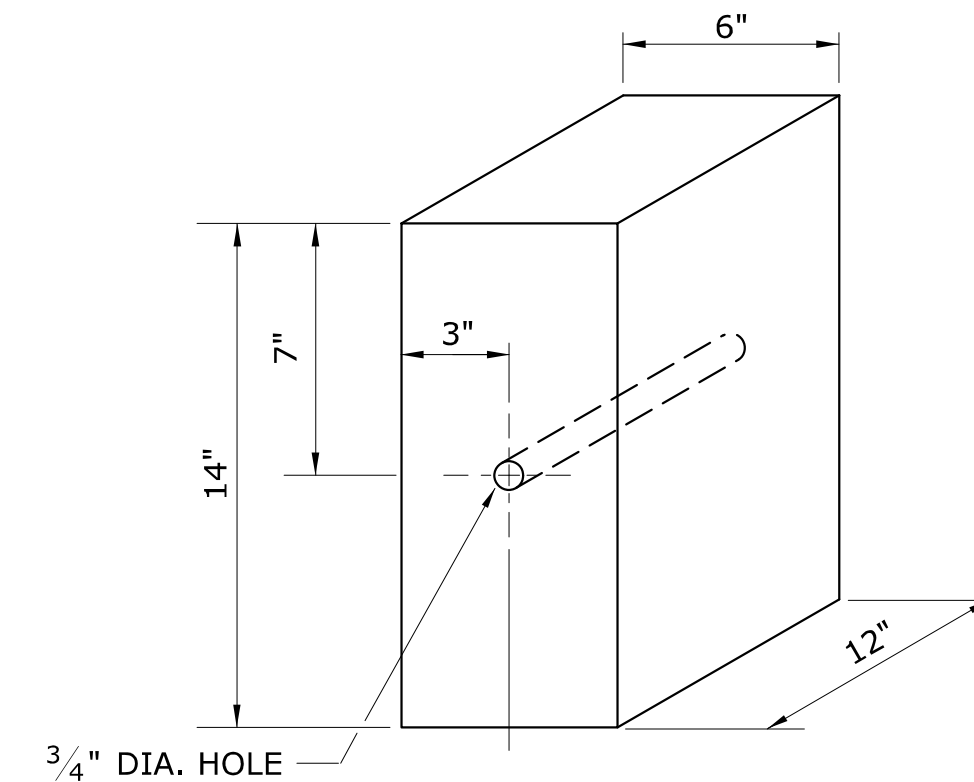
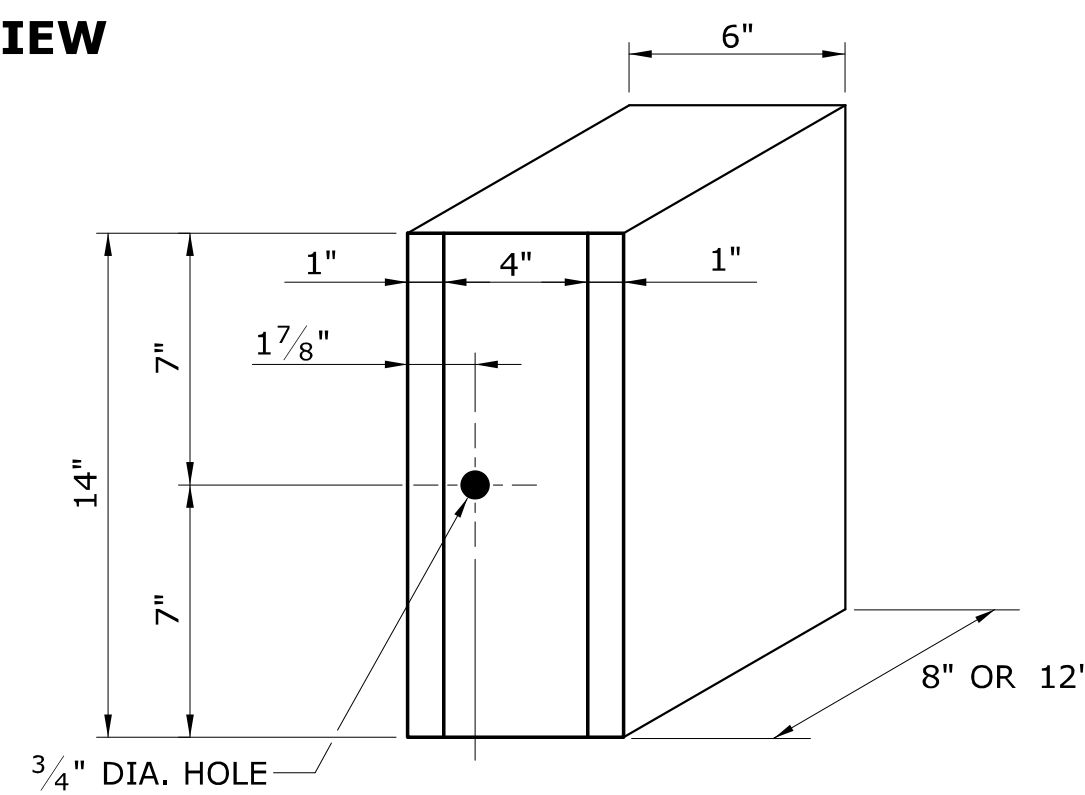


ELEVATION VIEW



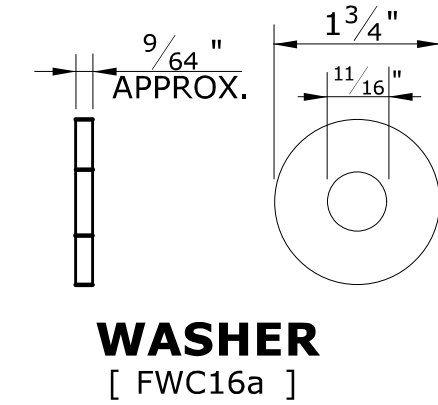
GENERAL NOTES:

- W6 x 9 POSTS MAY BE USED IN PLACE OF W6 x 8.5 POSTS.
- W-BEAM GUIDERAIL SHALL USE CLASS A (12 GAUGE), TYPE II W-BEAM RAIL ELEMENTS.
- SEVEN FOOT LONG STEEL POSTS (W6 X 8.5) ARE TO BE INSTALLED WHERE INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- ALL DIMENSIONS SUBJECT TO MANUFACTURING TOLERANCES



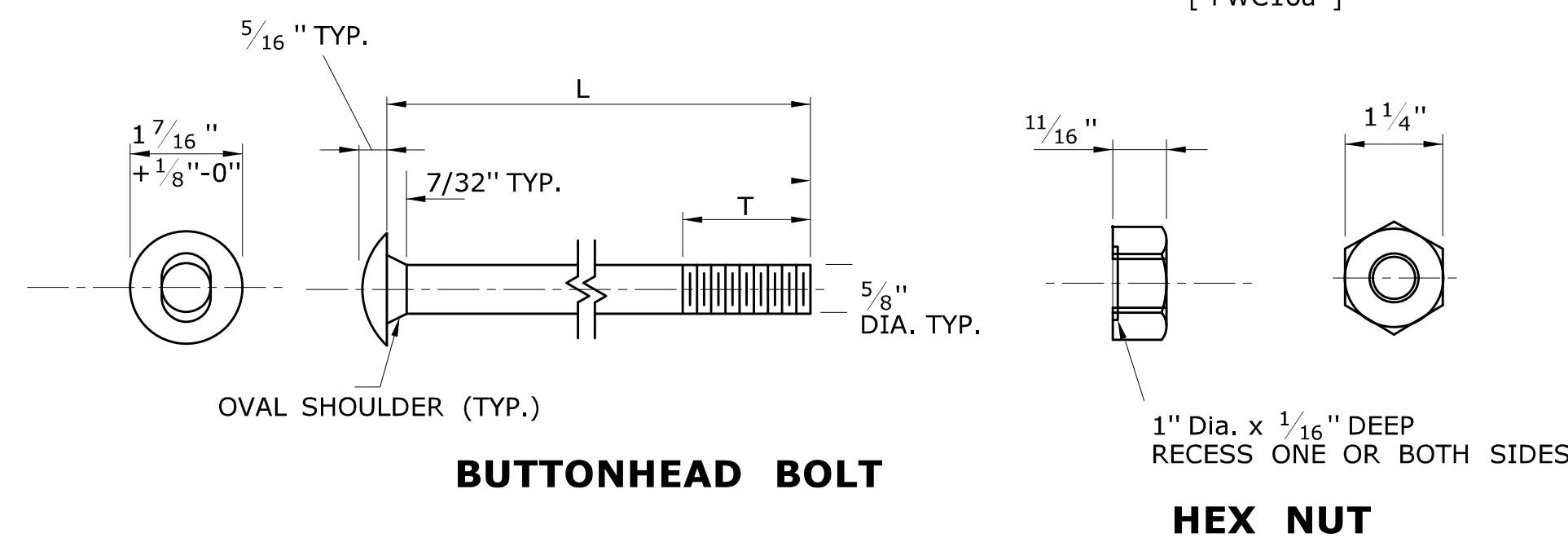
W-BEAM DELINEATOR INSTALLATION NOTES:

- INSTALL W-BEAM DELINEATORS ON RAIL THAT IS PARALLEL TO AND NOT GREATER THAN 8' FROM THE EDGE OF THE ROADWAY. A MINIMUM OF THREE W-BEAM DELINEATORS SHALL BE INSTALLED ON ANY LENGTH OF GUIDERAIL.
- THE SPACING OF W-BEAM DELINEATORS IS 50 FEET, INSTALLED AT RAIL SPLICE LOCATIONS. SPACING IS 25 FEET ON RADII LESS THAN 300 FEET.
- NO W-BEAM DELINEATORS ARE PERMITTED WITHIN 75 FEET OF THE IMPACT HEAD OF ANY TANGENTIAL OR FLARED IMPACT ATTENUATION SYSTEM.
- RETROREFLECTIVE SHEETING SHALL BE WHITE EXCEPT ON THE LEFT SIDE OF DIVIDED STREETS, HIGHWAYS, RAMPS, AND ONE WAY ROADS IN THE DIRECTION OF TRAVEL WHERE IT SHALL BE YELLOW.



8" or 12" PLASTIC BLOCKOUT
NOMINAL DIMENSIONS

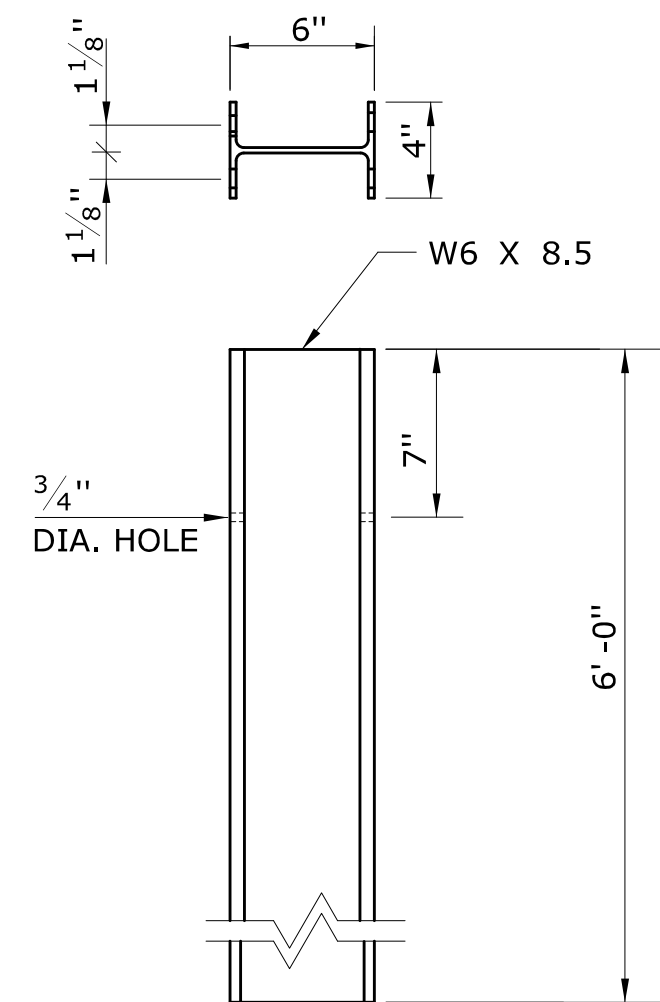
12" WOOD BLOCKOUT



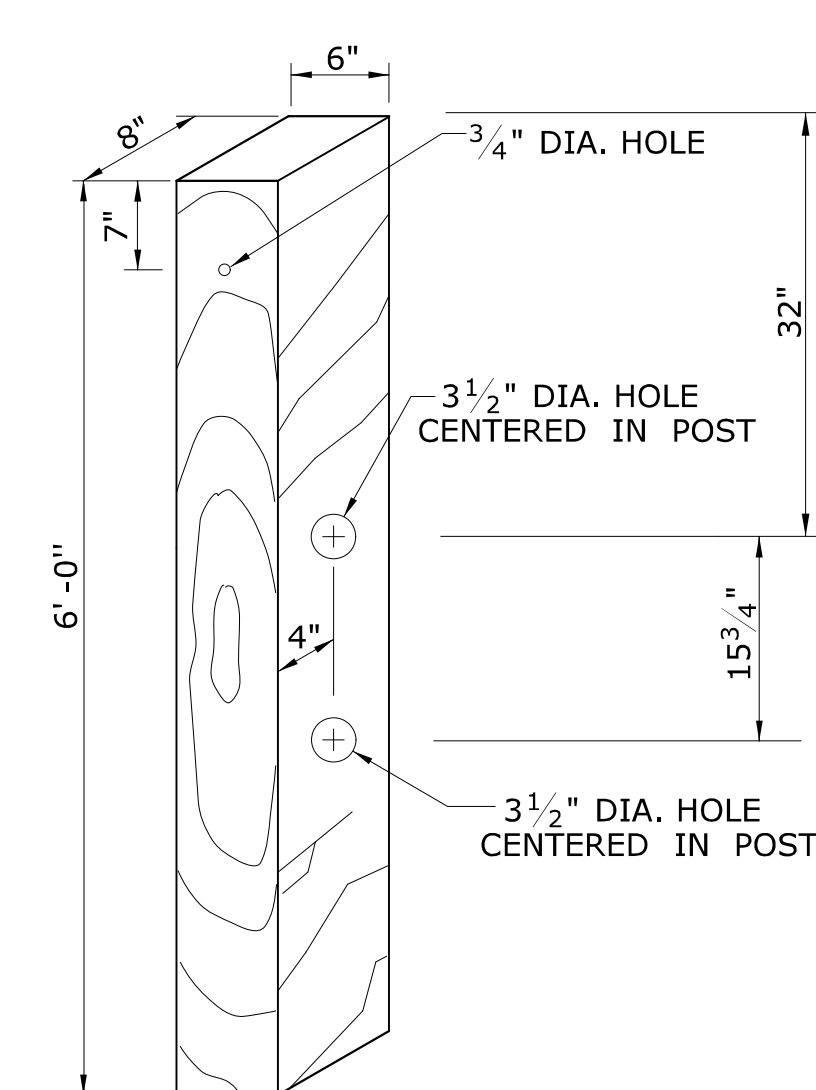
DESIGNATOR	L	T	INTENDED USE
FBB01	1-1/4"	1-1/8"	RAIL SPLICE BOLTS
FBB02	2"	1-3/4"	RUB RAIL BOLTS
FBB03	10"	4"	POST BOLTS (8" BLOCK OUTS)
	14"	4"	POST BOLT (12" BLOCK OUTS)
FBB04	18"	4"	POST BOLTS (2- 8" BLOCK OUTS)
	22"	4"	POST BOLT (CRT WOOD POST SYSTEM)

5/8" BUTTON HEAD BOLT(S) AND RECESSED NUT(S)

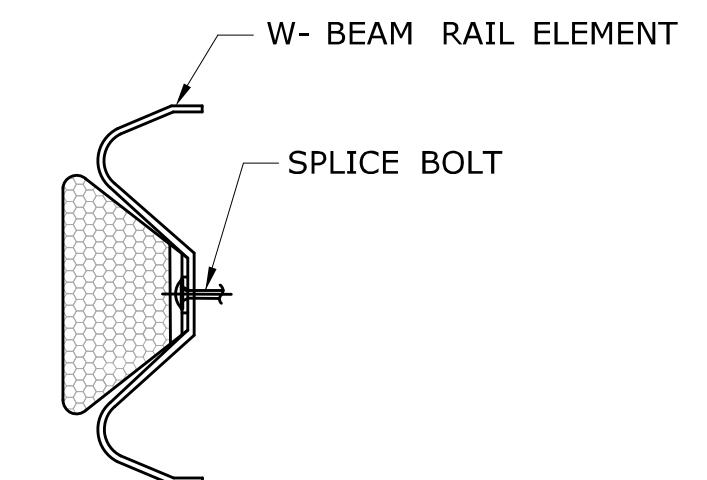
NOTE: AFTER GALVANIZING, THE NUT SHALL BE FREE RUNNING ON THE BOLT. DIAMETER SHOWN IS TYPICAL FOR ALL GUIDERAIL BOLTS. SEE DETAILS ABOVE FOR SPECIFIC LENGTHS.



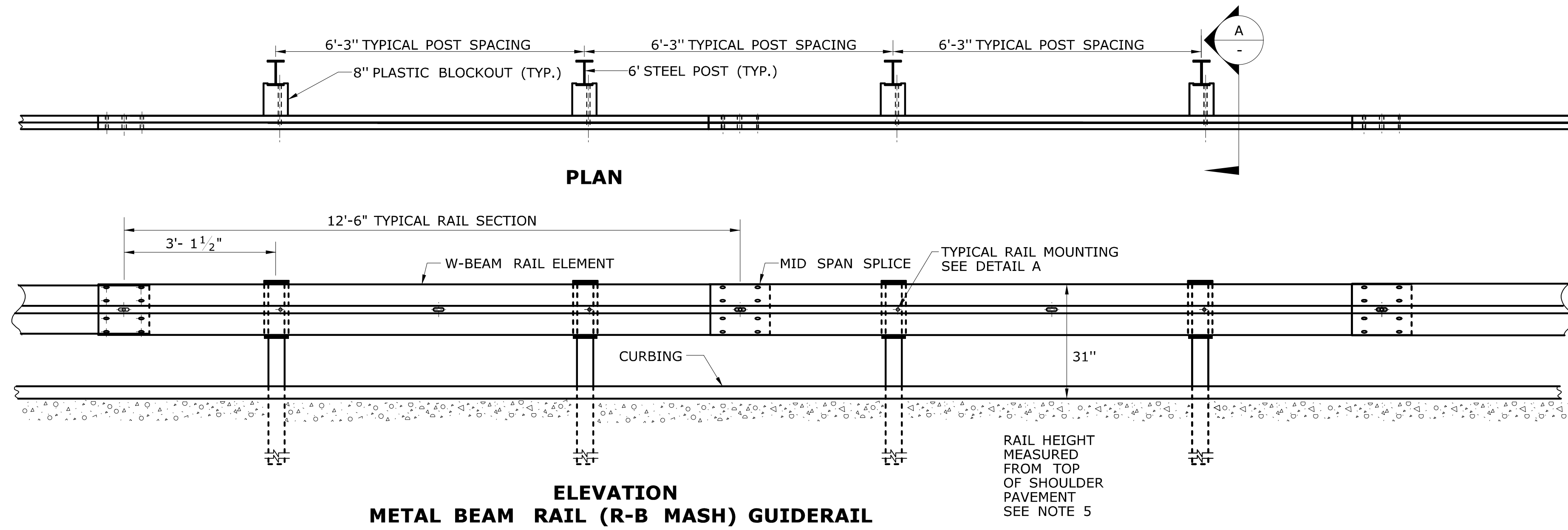
STEEL POST
6'-0" LONG



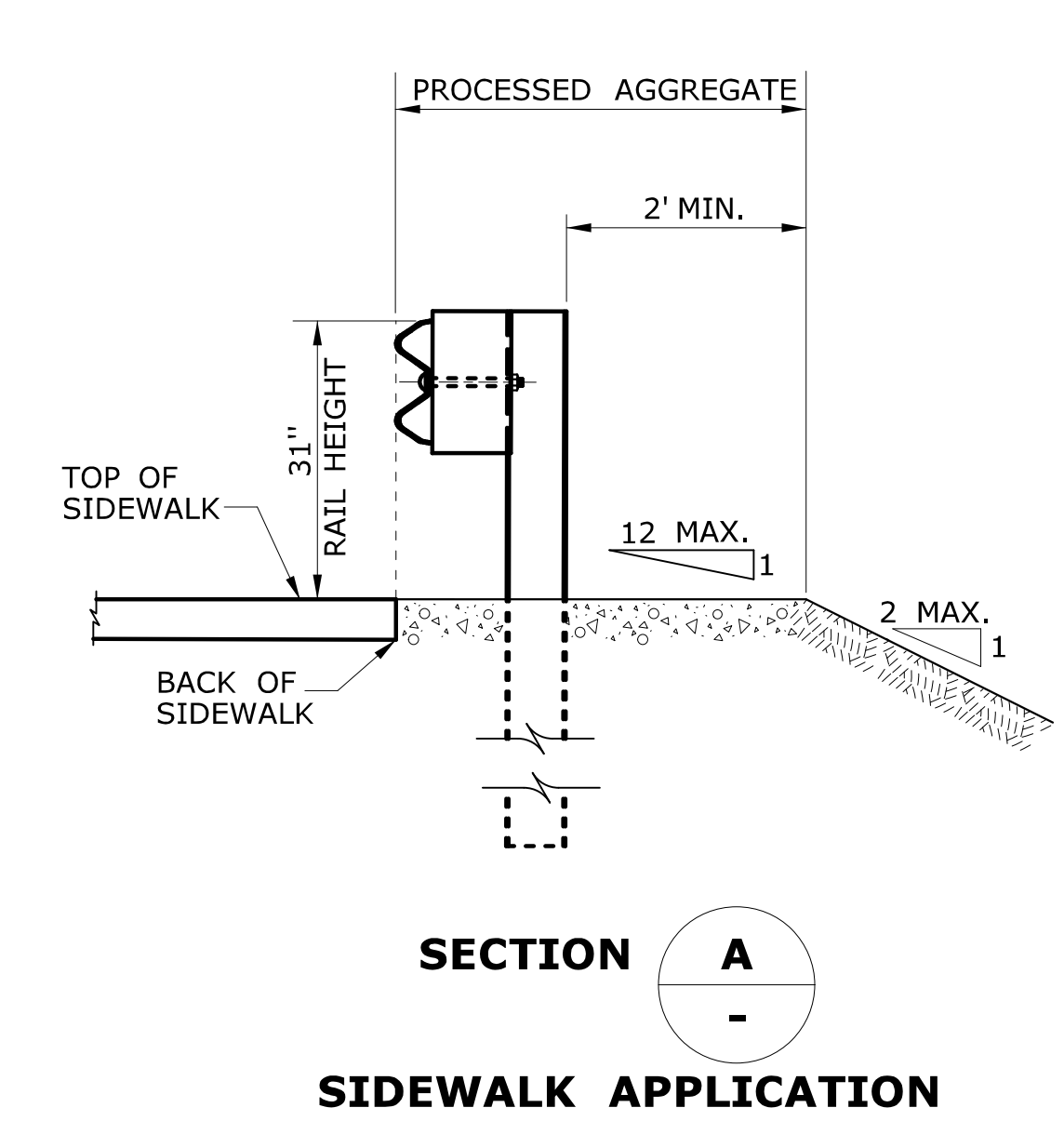
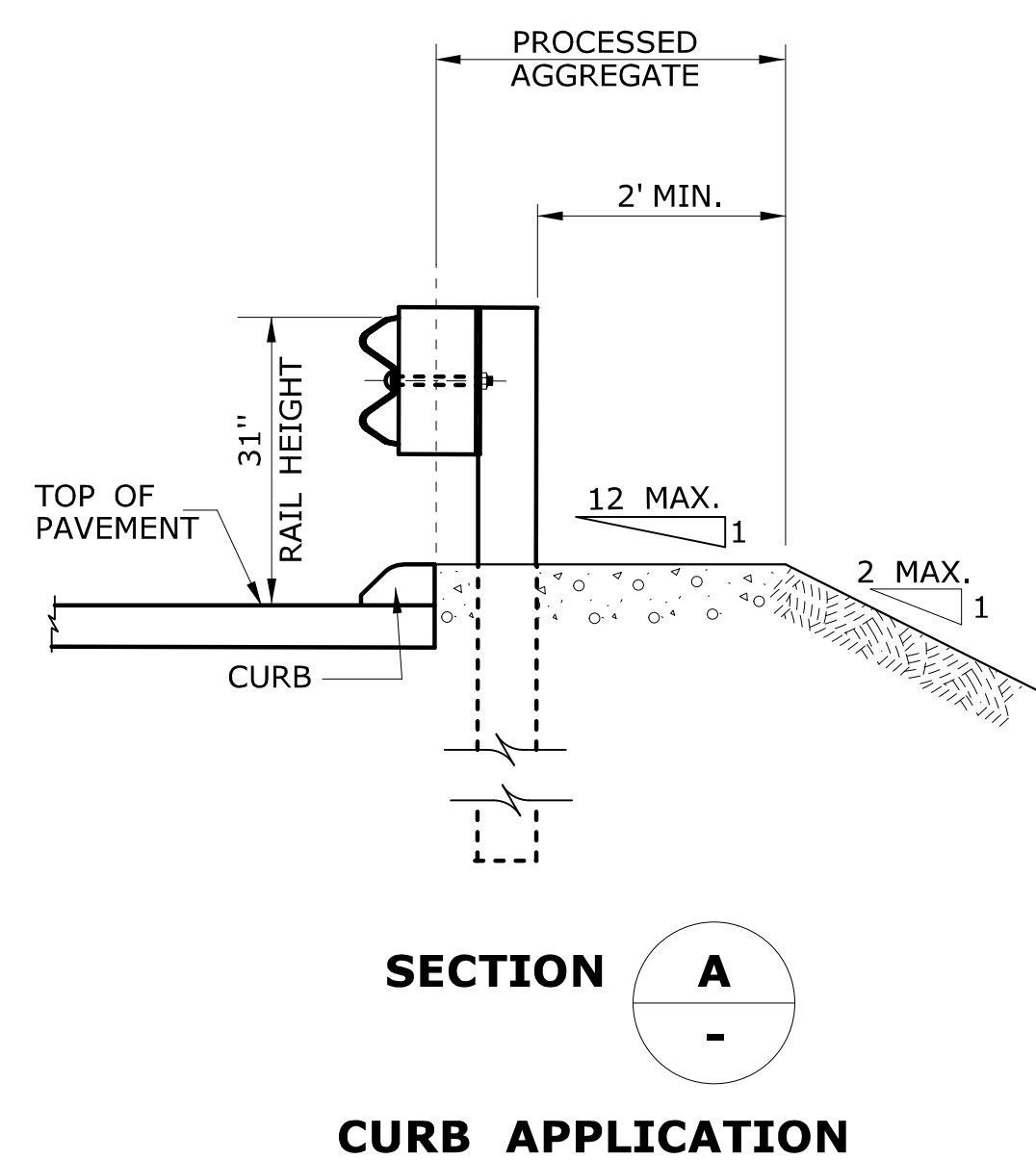
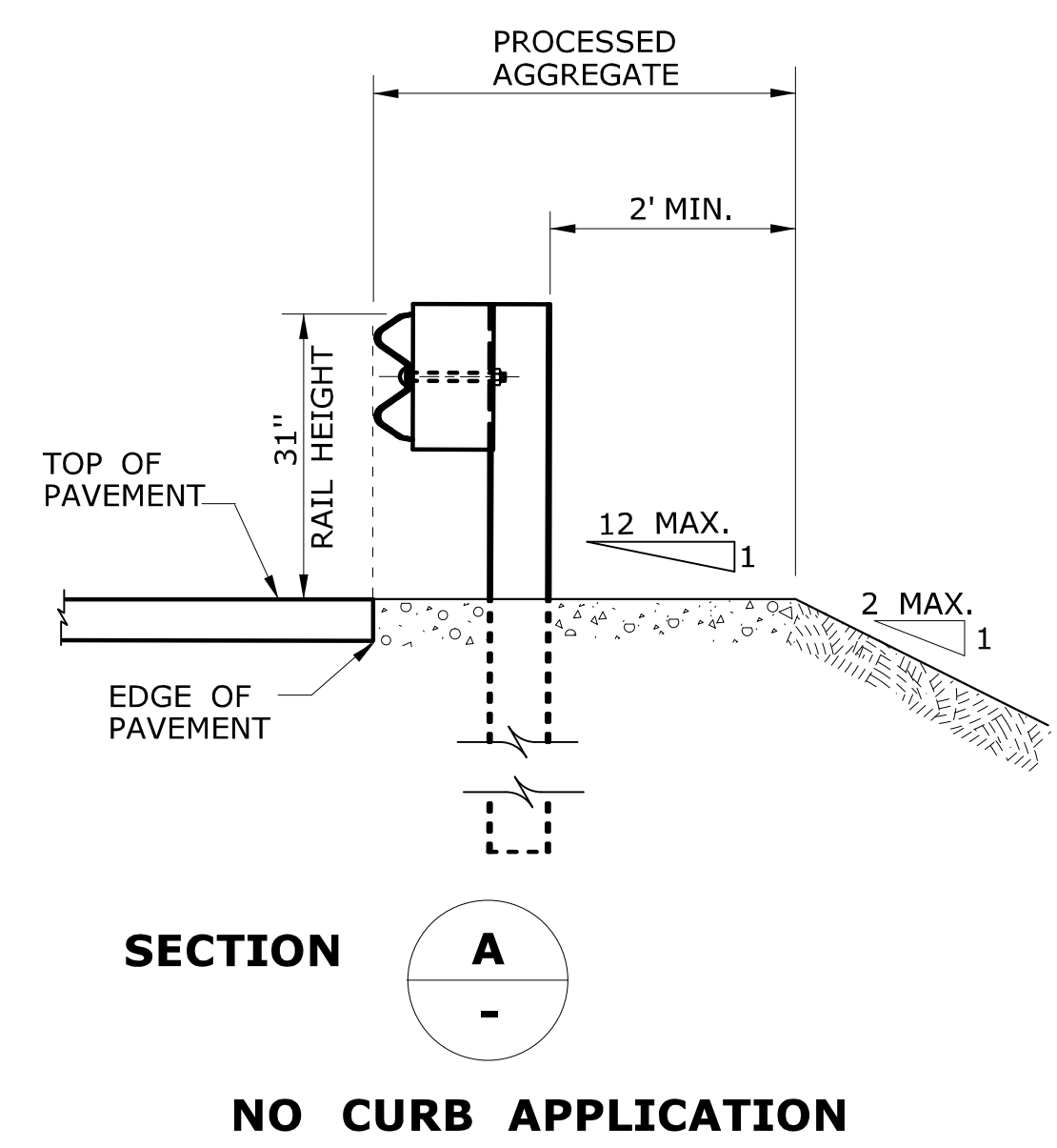
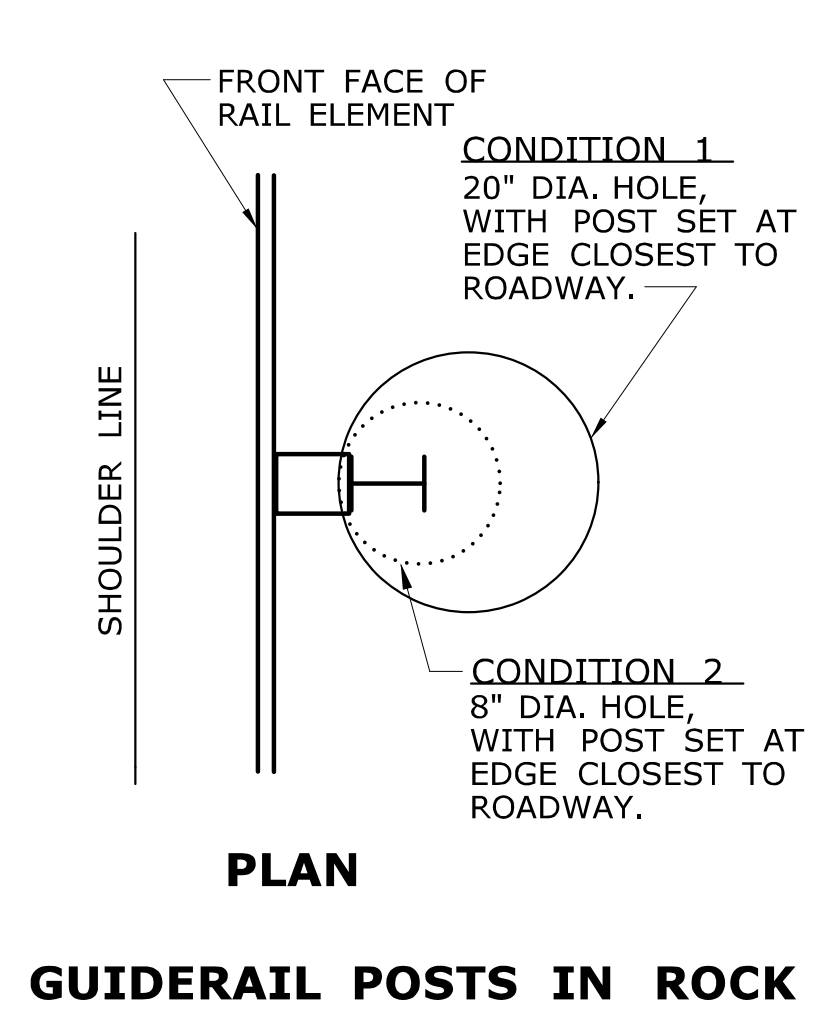
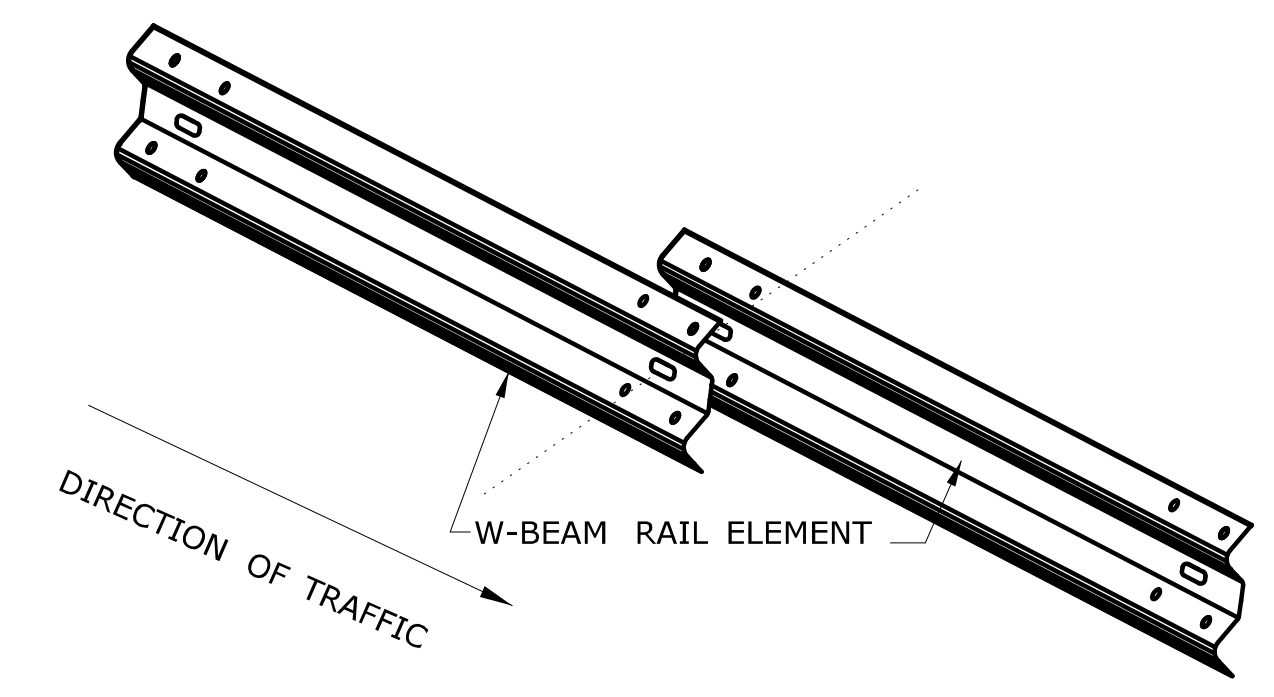
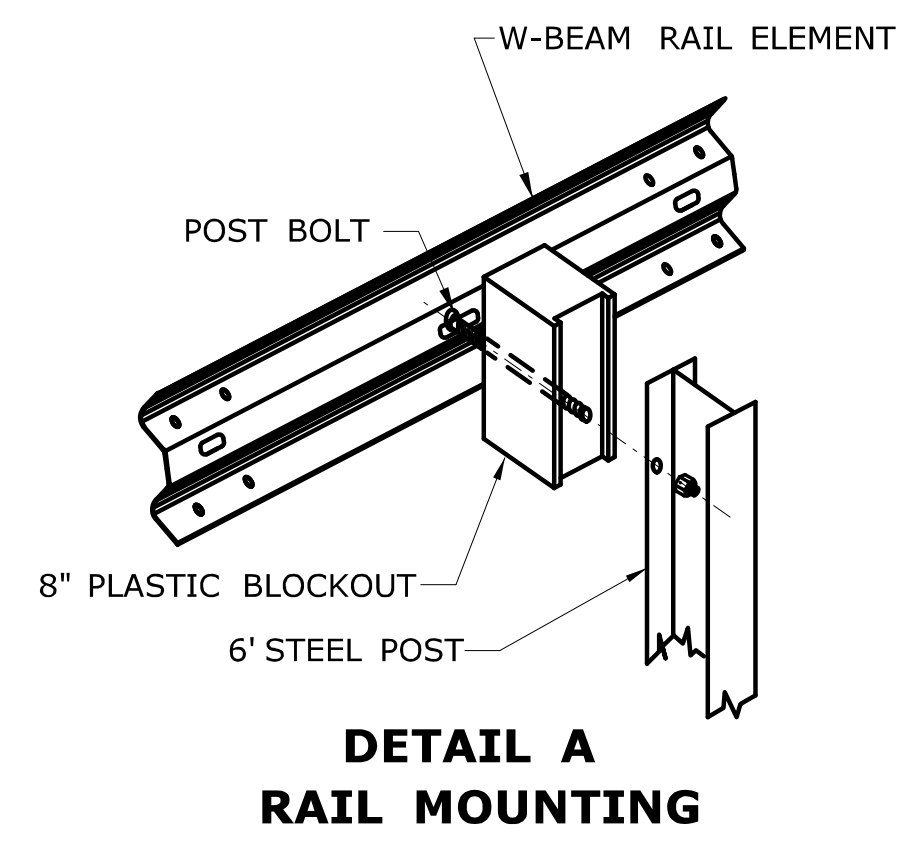
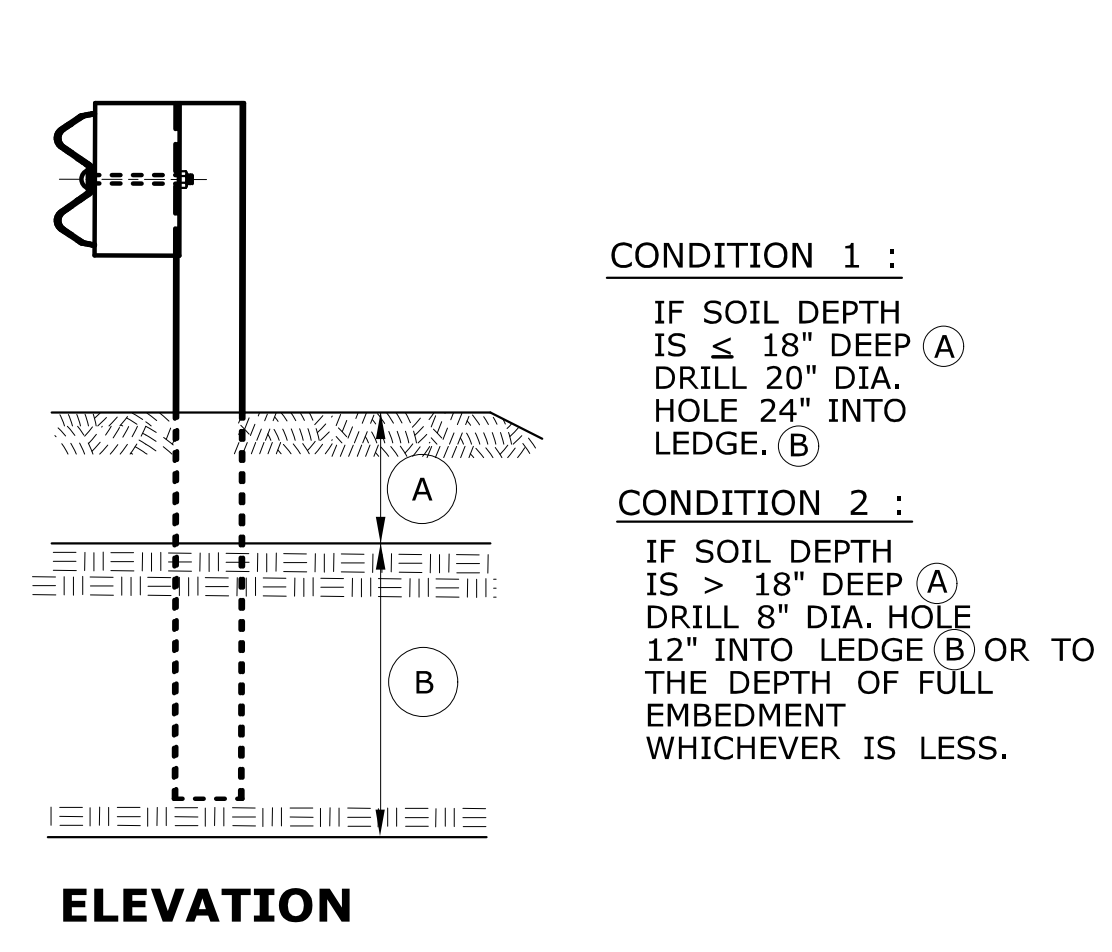
CONTROL RELEASE TIMBER (CRT) POST
6'-0" LONG



W-BEAM DELINEATOR
INSTALLATION



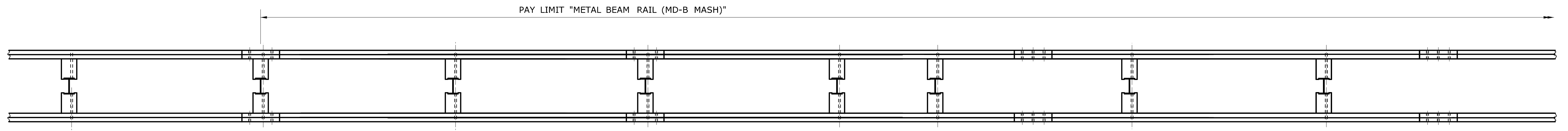
- GENERAL NOTES:**
- SEE SHEET HW-910.20 FOR MASH W-BEAM HARDWARE AND W-BEAM DELINEATOR DETAILS.
 - THREE BLOCKOUTS MAY BE USED FOR ONE POST ONLY. TWO BLOCKOUTS MAY BE USED FOR A SERIES OF POSTS. THE COST OF ADDITIONAL BLOCKOUTS AND LONGER BOLTS SHALL BE INCLUDED IN THE PRICE PER FOOT OF GUIDERRAIL. EXTRA BLOCKOUTS AT TRANSITIONS TO BRIDGE PARAPETS SHOULD BE AVOIDED. DO NOT USE ADDITIONAL BLOCKS IF IT CAUSES THE POST TO BE DRIVEN BEYOND AN EMBANKMENT HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.
 - IF BLOCKOUTS DO NOT AVOID POST FROM OBSTRUCTION, ONE POST MAY BE OMITTED IF 50 FEET OF GUIDERRAIL EXISTS ON BOTH SIDES OF LOCATION. USE METAL BEAM RAIL SPAN SECTION TYPE II OR III FOR MORE THAN ONE CONSECUTIVE OMITTED POST, SEE SHEET HW-910.24.
 - W-BEAM GUIDERRAIL MAY BE PLACED 1' OR MORE FROM THE EDGE OF PAVEMENT ONLY ON SLOPES 10:1 OR FLATTER AND WITHOUT CURBING.
 - IF THE RAIL IS INSTALLED WITHIN 2' OF THE EDGE OF PAVEMENT, THE RAIL HEIGHT IS MEASURED FROM THE SHOULDER SLOPE EXTENDED TO THE RAIL. IF THE RAIL IS INSTALLED BEYOND 2' FROM THE EDGE OF PAVEMENT, THE RAIL HEIGHT IS MEASURED FROM THE GROUND DIRECTLY BELOW THE RAIL.
 - RAIL HEIGHT CONSTRUCTION TOLERANCE IS +/- 1 INCH.



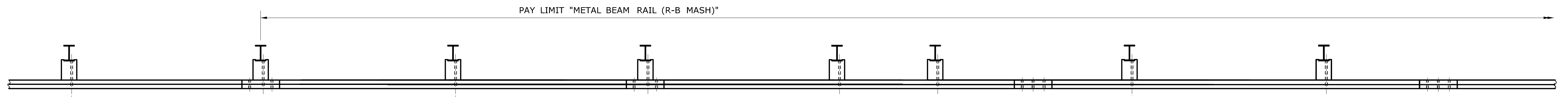
1	1/19	ELIMINATED 1 FOOT RAIL OFFSET FOR NON CURB CONDITIONS							
REV.	DATE	REVISION DESCRIPTION	Plotted Date: 1/23/2019	NOT TO SCALE	<p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p>	SUBMITTED BY: NAME/DATE/TIME: Leo Fontaine, P.E. 2019.01.24 07:38:57-05'00' APPROVED BY: NAME/DATE/TIME: Gregory M. Dorosh, P.E. 2019.01.24 10:42:50-05'00'	CTDOT STANDARD SHEET OFFICE OF ENGINEERING	STANDARD SHEET TITLE: METAL BEAM RAIL (R-B MASH) GUIDERRAIL	STANDARD SHEET NO.: HW-910_21

GENERAL NOTES:

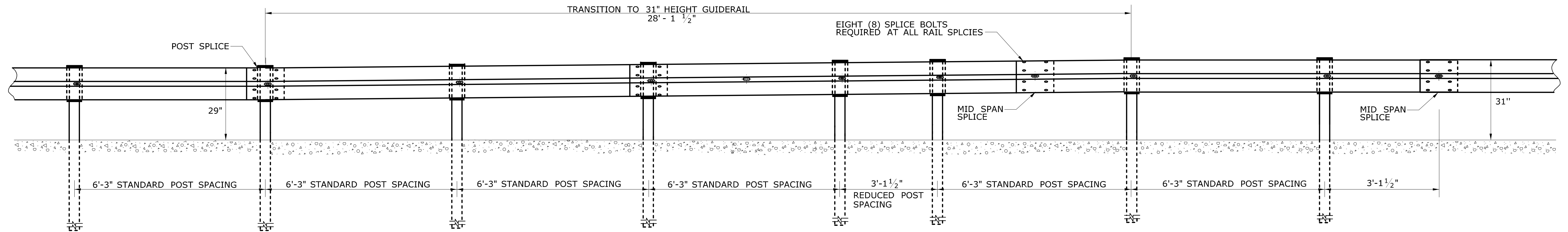
1. SEE SHEET HW-910_20 FOR HARDWARE AND W-BEAM DELINEATOR DETAILS.
2. NO POST(S) SHALL BE OMITTED WITHIN THE LENGTH OF GUIDERAIL TRANSITION.



PLAN
METAL BEAM RAIL MD-B 350 TRANSITION TO METAL BEAM RAIL MD-B MASH



PLAN
METAL BEAM RAIL R-B 350 TRANSITION TO METAL BEAM RAIL R-B MASH



ELEVATION

REV.	DATE	REVISION DESCRIPTION

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: 1/3/2018

NOT TO SCALE



Filename: CTDOT_HIGHWAY_STD.dgn Model: 278 - HW-910_25

SUBMITTED BY:	NAME/DATE/TIME:
<i>Leo Fontaine</i>	Leo Fontaine, P.E. 2018.01.05 11:03:13-05'00"
APPROVED BY:	NAME/DATE/TIME:
<i>Gregory M. Dorosh</i>	Gregory M. Dorosh, P.E. 2018.01.05 11:19:31-05'00"

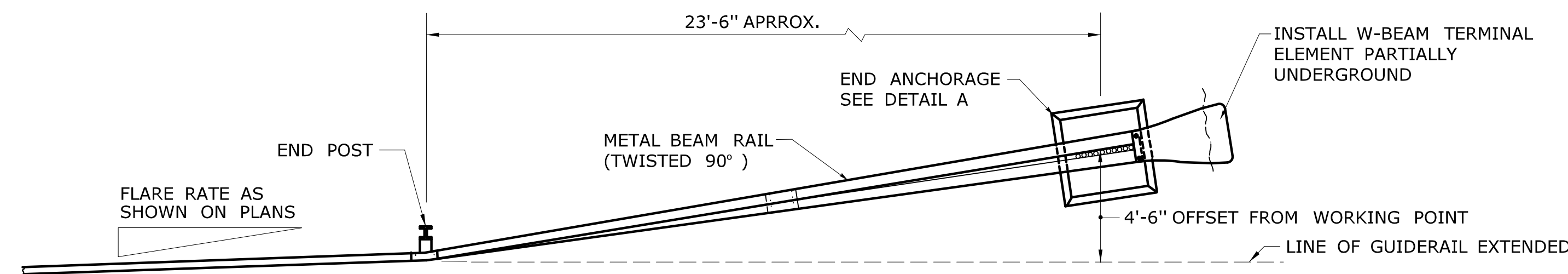
CTDOT
STANDARD SHEET
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:
METAL BEAM RAIL TRANSITION
350 TO MASH

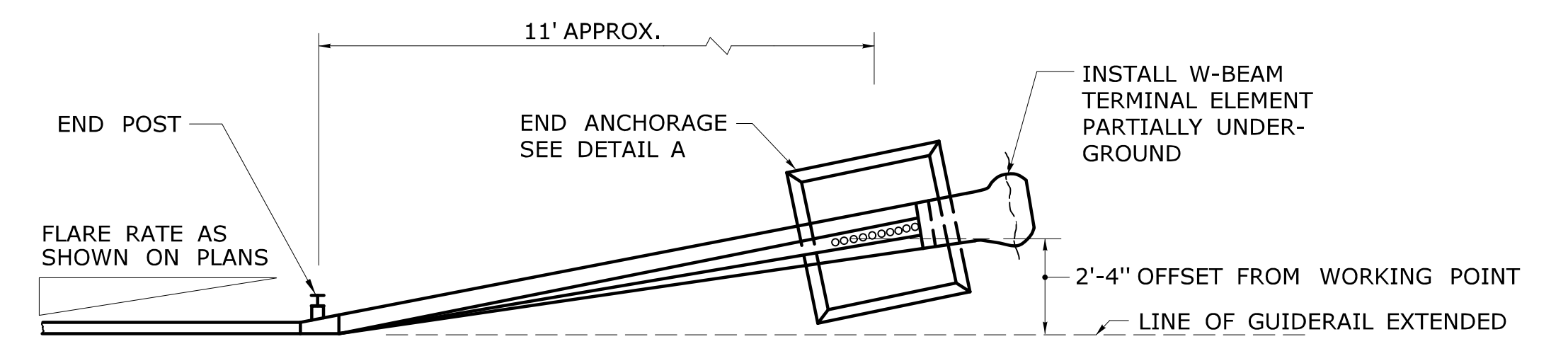
STANDARD SHEET NO.:
HW-910_25

GENERAL NOTES:

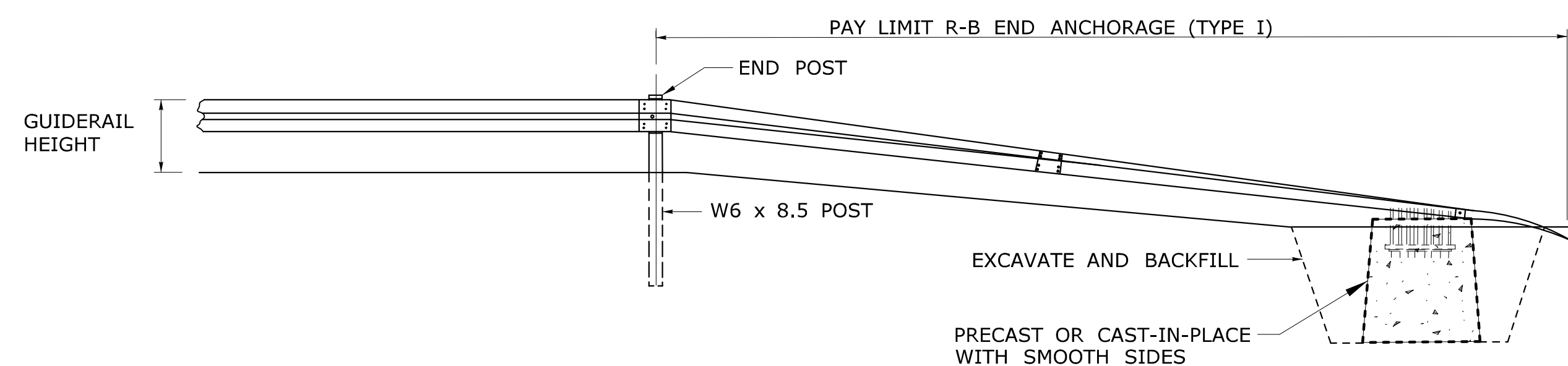
1. J-HOOK BOLTS MAY BE SUBSTITUTED FOR BOTTOM PLATE ANCHORAGE IN CONCRETE END ANCHORS USING THE SAME SIZE, STRENGTH, AND LENGTH AS NOTED ON THE PLANS.
2. INSTALLATION OF RADII DIFFERENT THAN WHAT IS SHOWN IN DETAIL "C" FOR R-B END ANCHORAGE TYPE II MUST BE APPROVED BY THE ENGINEER.



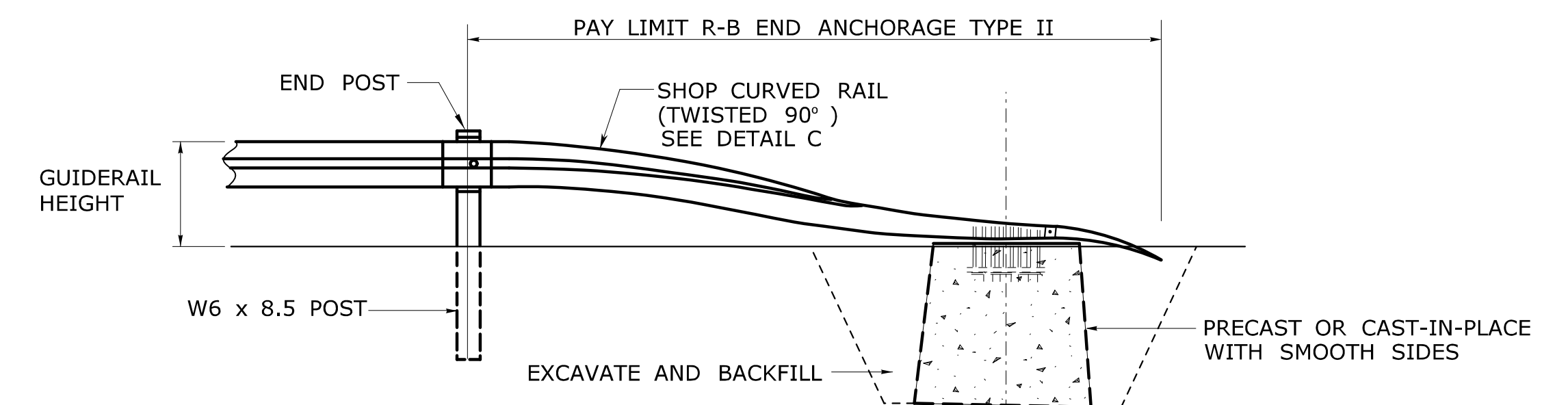
PLAN



PLAN



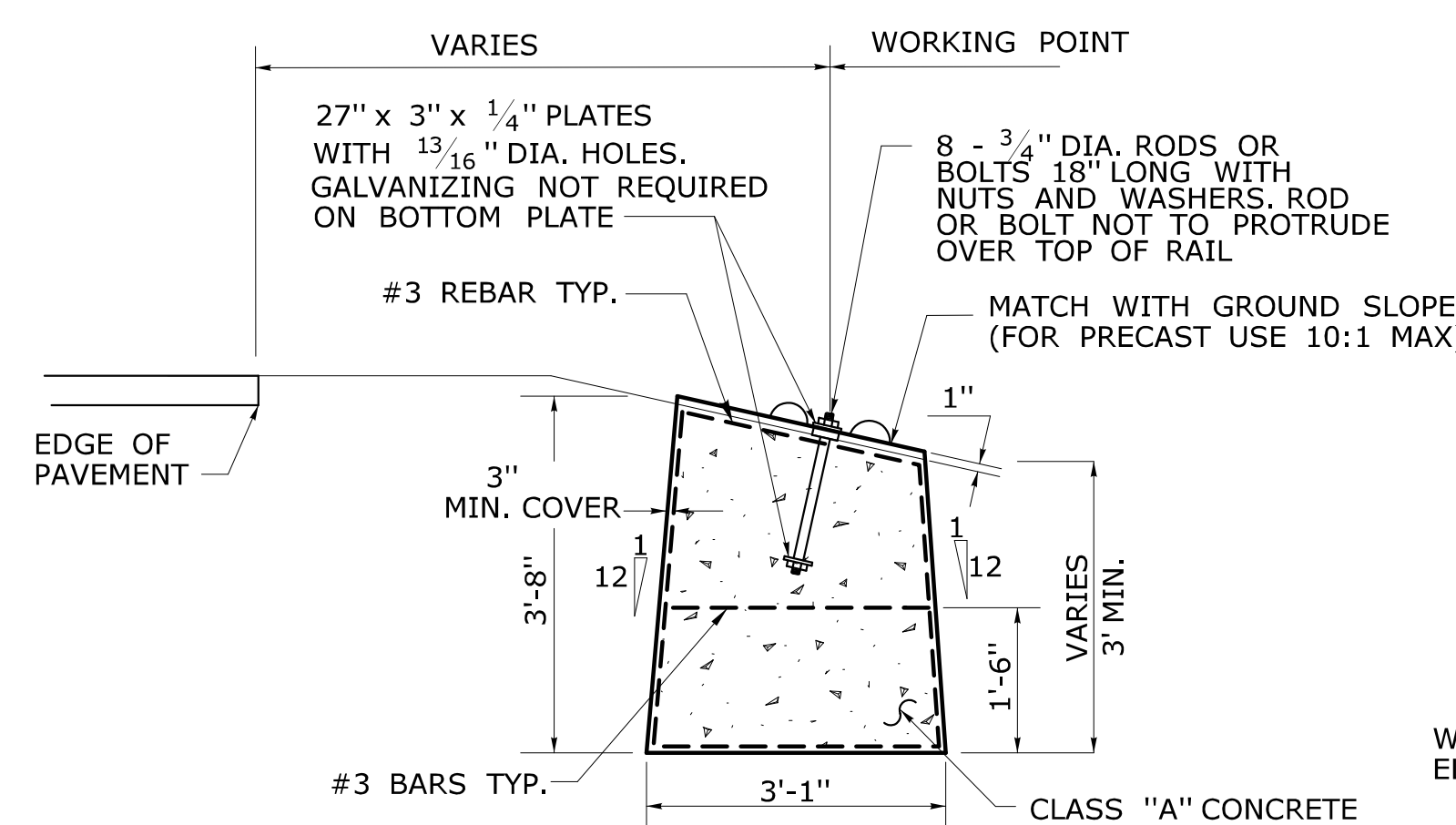
ELEVATION



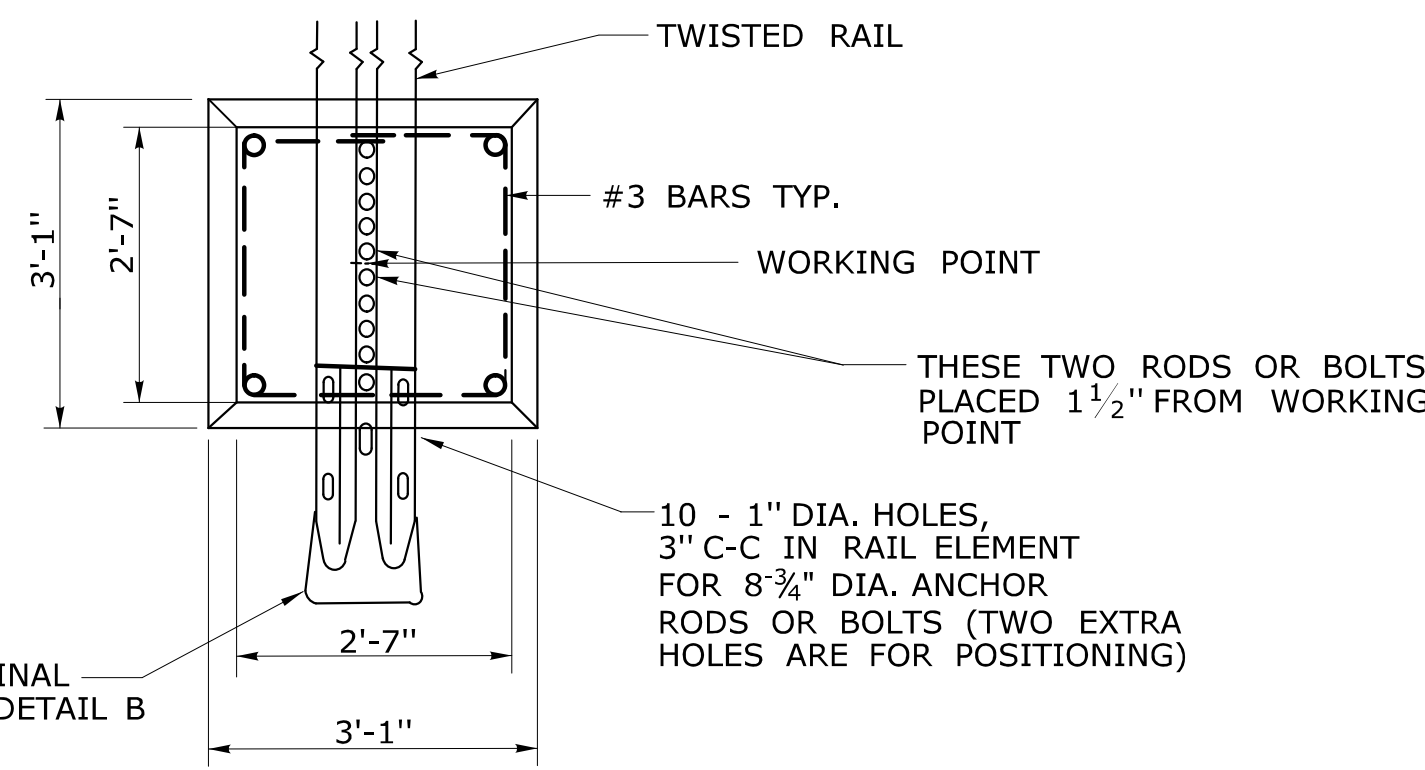
ELEVATION

R-B END ANCHORAGE TYPE I

R-B END ANCHORAGE TYPE II



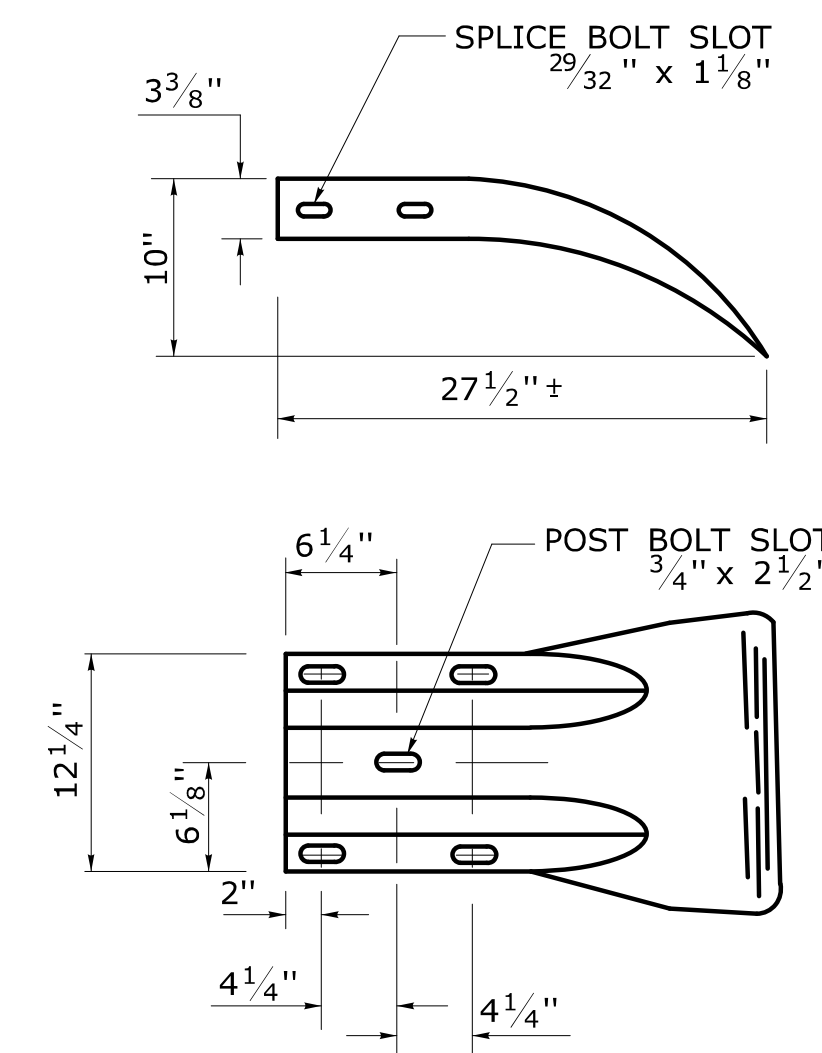
ELEVATION



PLAN

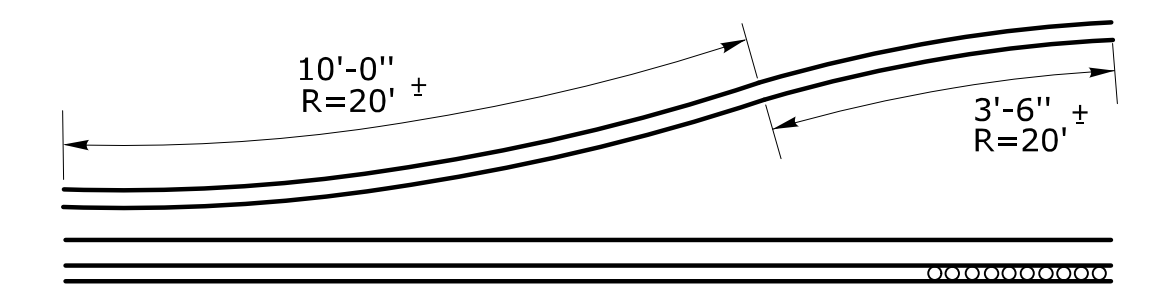
**DETAIL A
ROADSIDE CONCRETE END ANCHOR**

SEE NOTE 2



DETAIL B

W-BEAM TERMINAL ELEMENT



DETAIL C

SHOP CURVED RAIL

SEE NOTE 3

1	6/11	REVISED TYPE I AND II ANCHOR FOR CLEAR ZONE PLACEMENT
2	7/13	ADD POST OFFSET DISTANCE
3	9/17	REVISED TYPE I AND II FOR R-B MASH OR R-B 350 RAIL
4	1/19	REMOVED GENERAL NOTE 1
REV.	DATE	REVISION DESCRIPTION

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: 1/23/2019

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT-HIGHWAY-STD-[1-23-19-].dgn Model: 282 - HW-911-01

SUBMITTED BY:	NAME/DATE/TIME:
	Leo Fontaine, P.E. 2019.01.24 07:39:32-05'00'
APPROVED BY:	NAME/DATE/TIME:
	Gregory M. Dorosh, P.E. 2019.01.24 10:43:22-05'00'

**CTDOT
STANDARD SHEET**

OFFICE OF ENGINEERING

STANDARD SHEET TITLE:	STANDARD SHEET NO.:
R-B END ANCHORAGE TYPE I AND II	HW-911_01

ONLY STANDARD SHEETS MARKED WITH AN "✓" ARE IN THIS PROJECT #

SHEET NO.	TITLE	APPROVAL DATE
<input type="checkbox"/>	TR-1000_01 GENERAL CLAUSES (TEST PROCEDURES)	1/2014
<input type="checkbox"/>	TR-1001_01 TRENCHING & BACKFILLING, ELECTRICAL CONDUIT	4/2012
<input type="checkbox"/>	TR-1002_01 TRAFFIC CONTROL FOUNDATIONS	1/2014
<input type="checkbox"/>	TR-1010_01 CONCRETE HANDHOLE	4/2014
<input type="checkbox"/>	TR-1102_01 PEDESTALS, PEDESTRIAN SIGNALS	4/2012
<input type="checkbox"/>	TR-1105_01 TRAFFIC SIGNALS AND CABLE ASSIGNMENTS	8/2018
<input type="checkbox"/>	TR-1107_01 PEDESTRIAN PUSH BUTTON	8/2018
<input type="checkbox"/>	TR-1108_01 CONTROLLERS	5/2013
<input type="checkbox"/>	TR-1111_01 LOOP VEHICLE DETECTOR AND SAWCUT	4/2014
<input type="checkbox"/>	TR-1113_01 CONTROL CABLE	4/2014
<input type="checkbox"/>	TR-1114_01 BONDING & UTILITY POLE ATTACHMENT DETAILS, SIGN HANGER, "Y" CLAMP DETAILS	8/2018

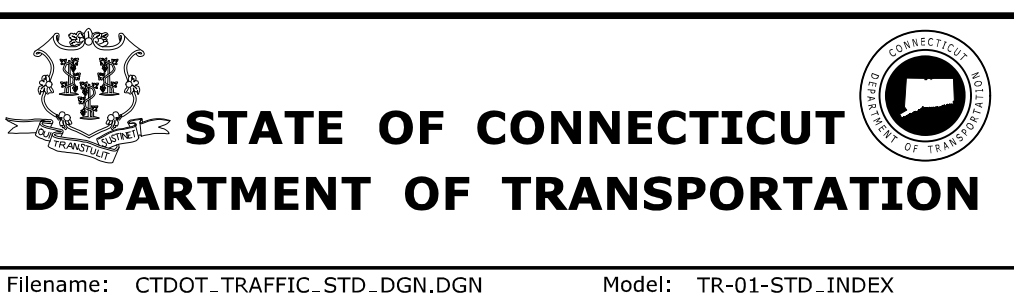
SHEET NO.	TITLE	APPROVAL DATE
<input type="checkbox"/>	TR-1205_01 DELINEATION, DELINEATORS AND OBJECT MARKER DETAILS	8/2018
<input type="checkbox"/>	TR-1208_01 SIGN PLACEMENT AND RETROREFLECTIVE STRIP DETAILS	8/2018
<input type="checkbox"/>	TR-1208_02 METAL SIGN POSTS AND SIGN MOUNTING DETAILS	6/2017
<input type="checkbox"/>	TR-1210_01 PAVEMENT MARKINGS (DURABLE MARKINGS) FOR DIVIDED HIGHWAYS	OBSOLETE
<input type="checkbox"/>	TR-1210_02 PAVEMENT MARKINGS (DURABLE MARKINGS) FOR DIVIDED HIGHWAYS	OBSOLETE
<input type="checkbox"/>	TR-1210_03 SPECIAL DETAILS & TYPICAL PAVEMENT MARKINGS FOR TWO-WAY HIGHWAYS	OBSOLETE
<input type="checkbox"/>	TR-1210_04 PAVEMENT MARKING LINES AND SYMBOLS	8/2018
<input type="checkbox"/>	TR-1210_05 PAVEMENT MARKINGS FOR DIVIDED HIGHWAYS	4/2017
<input type="checkbox"/>	TR-1210_06 PAVEMENT MARKINGS FOR DIVIDED HIGHWAYS	8/2018
<input type="checkbox"/>	TR-1210_07 PAVEMENT MARKINGS FOR EXIT RAMPS	4/2017
<input checked="" type="checkbox"/>	TR-1210_08 PAVEMENT MARKINGS FOR NON FREEWAYS	8/2018
<input type="checkbox"/>	TR-1210_09 PAVEMENT MARKINGS FOR BICYCLE LANES, PARKING STALLS, AND RR CROSSINGS	4/2017
<input checked="" type="checkbox"/>	TR-1220_01 SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS	8/2018
<input checked="" type="checkbox"/>	TR-1220_02 CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES	8/2018

STANDARD SHEETS SHALL BE USED WITH STANDARD SPECIFICATIONS

REV.	DATE	REVISION DESCRIPTION
4	4-2017	REMOVED TR-1210_01 TO TR-1210_03. ADDED TR-1210_04 TO TR-1210_09
3	4-2014	REMOVED TR-1111_02.
2	1-2014	REMOVED TR-1103_01.
1	4-2012	RENUMBERED TR-1107_02 TO TR-1114_01. REMOVED TR-1116_01.

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: 8/16/2018

NOT TO SCALE



SUBMITTED BY: _____ NAME/DATE/TIME: _____

CTDOT
STANDARD SHEET

OFFICE OF ENGINEERING

STANDARD SHEET TITLE: **TRAFFIC STANDARD SHEET INDEX**

STANDARD SHEET NO.: **TR-STD_INDEX**

E5 - SERIES	G20 - SERIES	M4 - SERIES	R1 - SERIES	R9 & R11 - SERIES	W1 - SERIES	W3 - SERIES
E5-1 EXIT COPY & BORDER - WHITE BACKGROUND - GREEN AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T.# POSTS 16.0 48 51-6147 2	G20-2a END ROAD WORK ROAD WORK NEXT 0 MILE(S) BE PREPARED TO STOP VARIABLE MILEAGE AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T.# POSTS 8.0 48X24 80-9612 2 90.0 120X108 80-9728	M4-8 DETOUR VARIABLE ARROW AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T.# POSTS 2.0 24X12 80-9707 1 5.0 30X24 80-9703 1	R1-1 STOP COPY & BORDER - WHITE BACKGROUND - RED AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T.# POSTS 5.19 30 31-0552 1 13.30 48 31-0557 2	R9-9 SIDEWALK CLOSED COPY & BORDER - BLACK BACKGROUND - WHITE AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T.# POSTS 3.75 30X18 80-9076 1 R11-3a ROAD CLOSED 00 MILES AHEAD LOCAL TRAFFIC ONLY VARIABLE MILEAGE COPY & BORDER - BLACK BACKGROUND - WHITE AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T.# POSTS 12.5 60X30 80-9077 2	W1-4 (L) (R) BOTH LANES SHIFT LEFT AHEAD (L) BOTH LANES SHIFT RIGHT AHEAD (R) AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T.# POSTS 9.0 36 80-9432L 1 9.0 36 80-9431R 1 16.0 48 80-9452L 2 16.0 48 80-9451R 2	W3-1 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
16 - SERIES CONSTRUCTION AHEAD ROAD USE RESTRICTED STATE LIABILITY LIMITED GENERAL STATUTES SEC 13a-115, 13a-145 COMMISSIONER OF TRANSPORTATION AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T.# POSTS 16-M 5.0 30X24 80-1613 1 16-H 17.5 60X42 80-1608 2 16-E 35.0 84X60 80-1605 2	NEXT 0 MILES VARIABLE MILEAGE AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T.# POSTS 7.0 72X14 80-9720	M4-10 DETOUR (R) DETOUR (L) VARIABLE ARROW AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T.# POSTS 6.0 48X18 80-9701R 2 6.0 48X18 80-9702L 2	R4 - SERIES R4-7 DETOUR VARIABLE ARROW AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T.# POSTS 5.0 24X30 31-1526 1	R9-11a SIDEWALK CLOSED CROSS HERE VARIABLE ARROW COPY & BORDER - BLACK BACKGROUND - WHITE AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T.# POSTS 2.0 24X12 80-9075 1	W1-6 (L or R) BOTH LANES SHIFT LEFT AHEAD (L) BOTH LANES SHIFT RIGHT AHEAD (R) AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T.# POSTS 16.0 48 80-9434L 2 16.0 48 80-9433R 2 12.5 60X30 80-9423 2	W3-2 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
CONSTRUCTION AHEAD SIDEWALK USE RESTRICTED STATE LIABILITY LIMITED GENERAL STATUTES SEC 13a-115, 13a-145 COMMISSIONER OF TRANSPORTATION AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T.# POSTS 16-S 10.0 48X30 80-1619 2	BUSINESS ACCESS VARIABLE ARROW COPY & BORDER - WHITE BACKGROUND - BLUE AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T.# POSTS 9.0 36 50-5934 2	M4-9b DETOUR VARIABLE ARROW AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T.# POSTS 3.90 36 31-0523 1 10.83 60 31-0528 2	R4-9 STAY IN LANE COPY & BORDER - BLACK BACKGROUND - WHITE AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T.# POSTS 12.0 36X48 31-1517 1 5.0 24X30 31-1518 1 20.0 48X60 31-1519 2	R9-11b SIDEWALK CLOSED CROSS HERE VARIABLE ARROW COPY & BORDER - BLACK BACKGROUND - WHITE AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T.# POSTS 2.0 24X12 80-9075 1	W1-8 (L) (R) BOTH LANES SHIFT LEFT AHEAD (L) BOTH LANES SHIFT RIGHT AHEAD (R) AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T.# POSTS 3.0 18X24 80-9401 1 5.0 24X30 80-9403 1 7.5 30X36 80-9404 1	W3-3 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

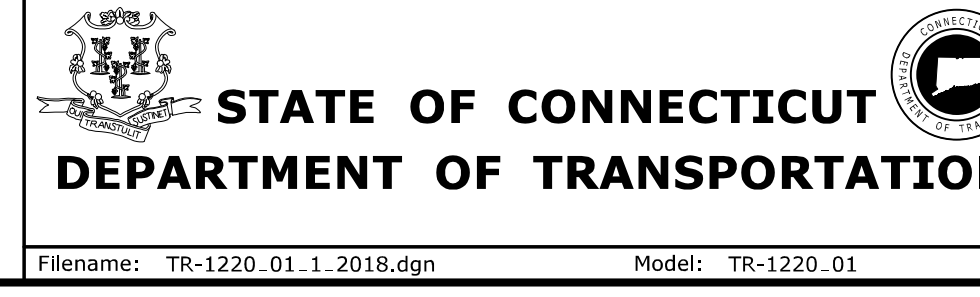
W4-W6 - SERIES	W8-W9 - SERIES	W13 - SERIES	W20 - SERIES	W21 - SERIES	W22 - SERIES	STOP-SLOW PADDLE
W4-2 (L) (R) AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T.# POSTS 16.0 48 80-9918L 2 16.0 48 80-9917R 2	W8-1 BUMP AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T.# POSTS 9.0 36 80-9901 1 16.0 48 80-9902 2	W13-1 00 M.P.H. 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	W20-1 ROAD WORK AHEAD LEFT LANES CLOSED (L) RIGHT LANES CLOSED (R) 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 (L) 16.0 48 80-9836 2 (R) 16.0 48 80-9839 2	W21-6 SURVEY CREW AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T.# POSTS 9.0 36 80-9607 1	W22-1 BLASTING ZONE 1000 FT AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T.# POSTS 9.0 36 80-9620 1 16.0 48 80-9625 2	STOP-SLOW PADDLE SIDE A STOP SIDE B SLOW 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
W6-3 AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T.# POSTS 16.0 48 80-9945 2	W8-2 BUMP AHEAD AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T.# POSTS 9.0 36 80-9801 1 16.0 48 80-9802 2	W13-5 REDUCE SPEED TO 00 MPH VARIABLE SPEED AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T.# POSTS 9.0 36 80-9506 1 16.0 48 80-9508 2	W20-2 ROAD WORK 0000 FT LEFT TWO LANES CLOSED AHEAD (L) RIGHT TWO LANES CLOSED AHEAD (R) SLOW MOVING TRUCKS AHEAD AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T.# POSTS 9.0 36 80-9614 1 16.0 48 80-9615 2 (L) 16.0 48 80-9837 2 (R) 16.0 48 80-9838 2	W21-6 SURVEY CREW AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T.# POSTS 9.0 36 80-9607 1	W22-2 TURN OFF 2-WAY RADIO AND CELL PHONE AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T.# POSTS 10.5 42X36 80-9623 2	USE SHOULDER SHOULDER CLOSED AHEAD (1) SHOULDER CLOSED (2) AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T.# POSTS 16.0 48 80-9956 2 (1) 16.0 48 80-9957 2 (2) 9.0 36 80-9958 1 (2) 16.0 48 80-9959 2
	W9-2 LANE ENDS MERGE LEFT (L) LANE ENDS MERGE RIGHT (R) AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T.# POSTS 16.0 48 80-9910L 2 16.0 48 80-9911R 2	W13-5 SPEED LIMIT 00 VARIABLE SPEED AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T.# POSTS 9.0 36 80-9520 1 16.0 48 80-9521 2	W20-2 DETOUR 1000 FT LEFT LANE CLOSED AHEAD (L) RIGHT LANE CLOSED AHEAD (R) AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T.# POSTS 9.0 36 80-9805 1 16.0 48 80-9806 2 (L) 16.0 48 80-9847 2 (R) 16.0 48 80-9848 2	W21-6 SURVEY CREW AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T.# POSTS 9.0 36 80-9607 1	W22-3 END BLASTING ZONE AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T.# POSTS 10.5 42X36 80-9621 2	
		W16 - SERIES W16-15P NEW COPY & BORDER - BLACK BACKGROUND - ORANGE AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T.# POSTS 2.0 24X12 80-9049	W20-2 ONE LANE ROAD AHEAD LEFT LANE CLOSED (L) RIGHT LANE CLOSED (R) VARIABLE MILEAGE AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T.# POSTS 9.0 36 80-9834 1 16.0 48 80-9835 2 (L) 16.0 48 80-9846 2 (R) 16.0 48 80-9849 2	W21-6 SURVEY CREW AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T.# POSTS 9.0 36 80-9607 1	W22-3 END BLASTING ZONE AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T.# POSTS 10.5 42X36 80-9621 2	

REV.	DATE	REVISION DESCRIPTION
6	8-2018	REVISED POST REQUIREMENTS AND SHEETING TYPE.
5	8-2015	UPDATED PER MUTCD AND FORM 816 JAN 2015 REVISION.
4	6-2012	REVISED NOTE # 1 TO REFERENCE "O.S.T.A."
3	4-2012	REVISED NEW SIGNAL SIGN(S) TO CONFORM TO 2009 MUTCD.
2	2-2011	MINOR REVISIONS.
1	3-2010	REMOVED OBSOLETE SIGNS (50-5925, 50-5935).

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: 8/10/2018

NOT TO SCALE



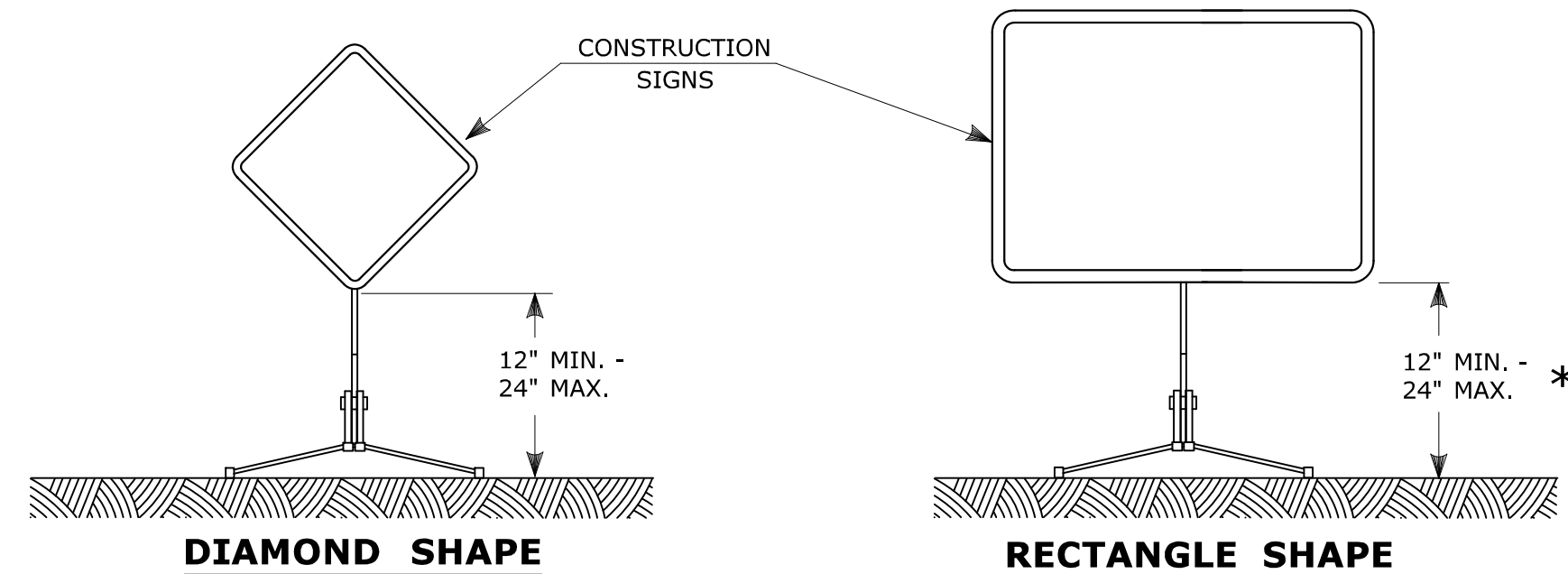
SUBMITTED BY: Mark F. Makuch, P.E.
2018.08.17
09:11:08-04'00"

APPROVED BY: Mark F. Carfino, P.E.
2018.08.21 07:49:34-04'00"

CTDOT
STANDARD SHEET
OFFICE OF ENGINEERING

STANDARD SHEET TITLE: SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS

STANDARD SHEET NO.: TR-1220_01

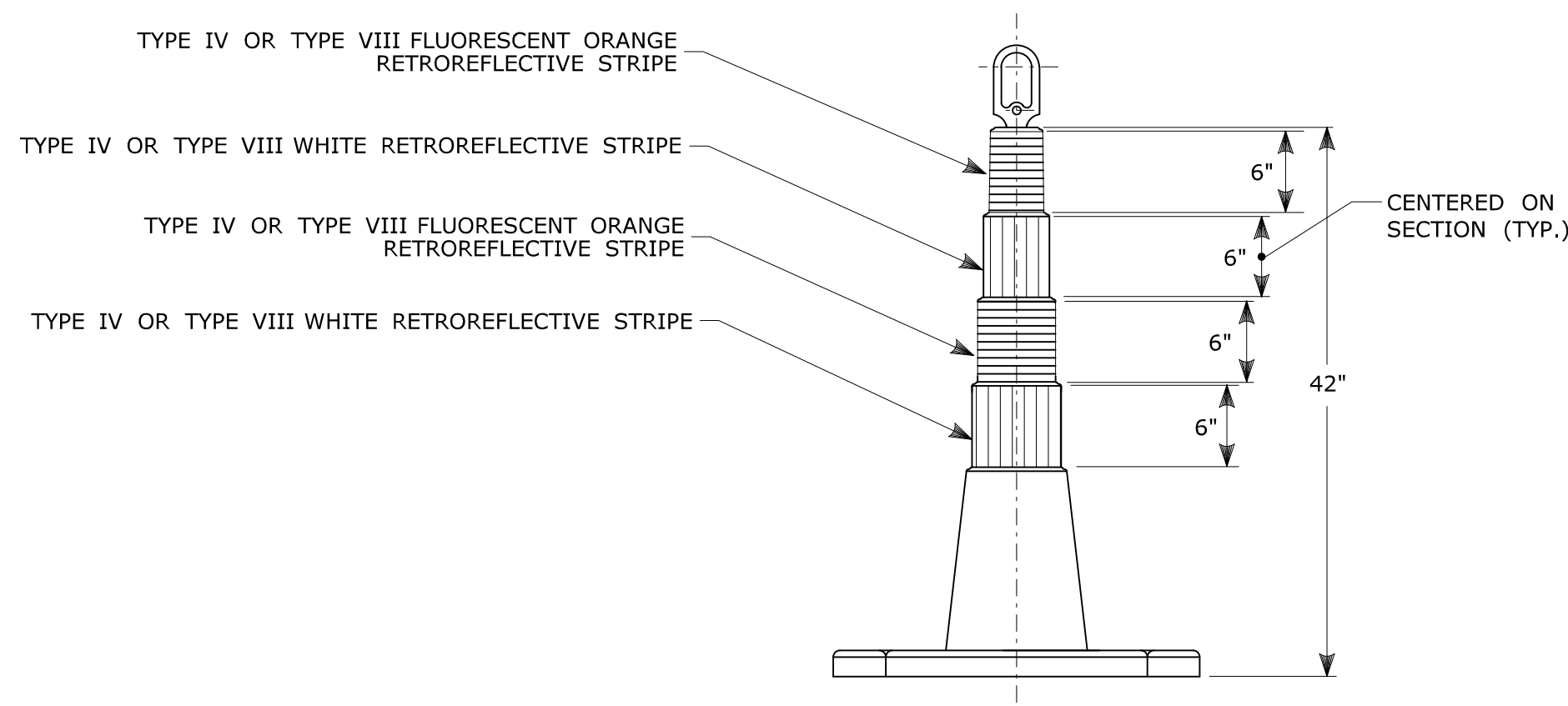


PORTABLE CONSTRUCTION SIGNS

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.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY SUPPORT DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- 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 FOR R9-8 THROUGH R9-11a SERIES, R11 SERIES, W1-6 THROUGH W1-8 SERIES, M4-10, AND E5-1. SEE STANDARD SHEET TR-1220.01 - "SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS" FOR SIGN DETAILS.

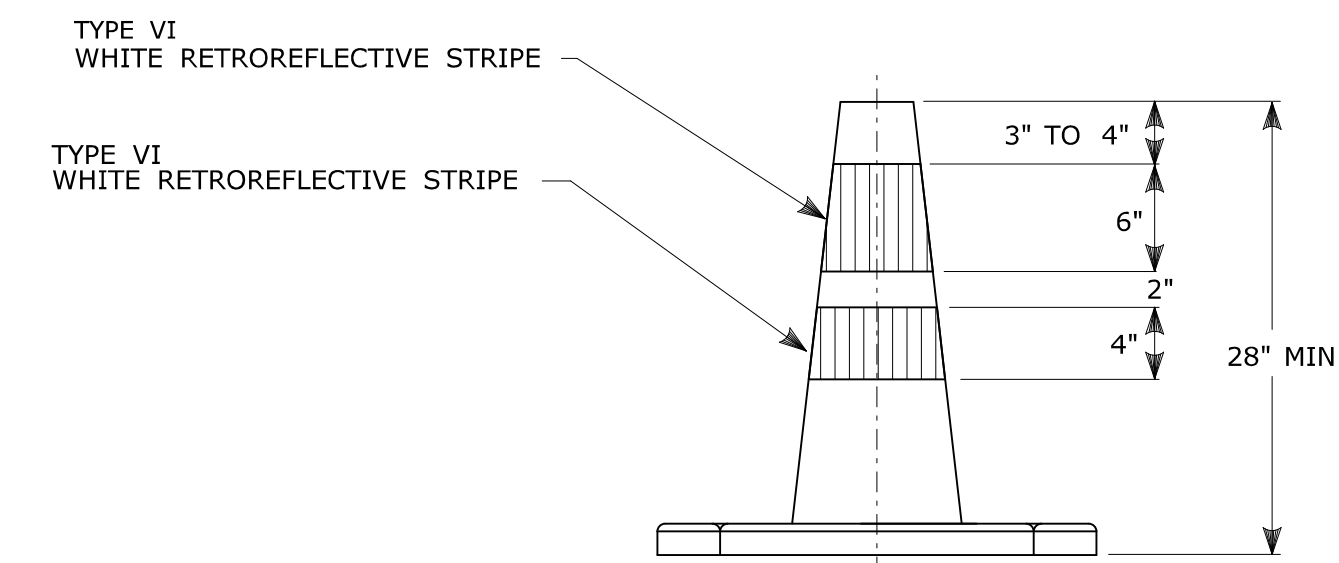
* FOR E5-1 (EXIT SIGNS) USE MIN 48".



42" TRAFFIC CONE

NOTES:

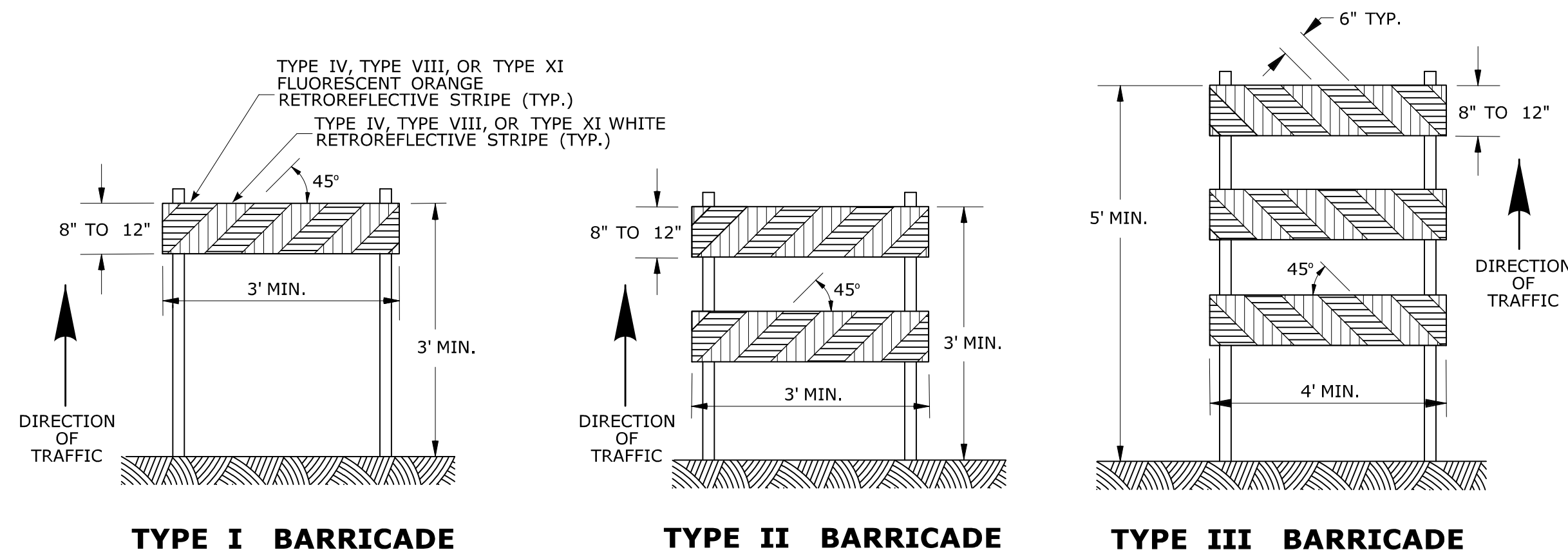
- TRAFFIC CONES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- IF RUBBER CONES ARE USED, THEY SHALL HAVE INTERIOR RIBS FOR RIGIDITY.
- IF PLASTIC CONES ARE USED, THEY SHALL BE COLOR IMPREGNATED.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY CONE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- THE ENTIRE AREA OF FLUORESCENT ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
- THE SECTIONS OF CONES NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.



TRAFFIC CONE

NOTES:

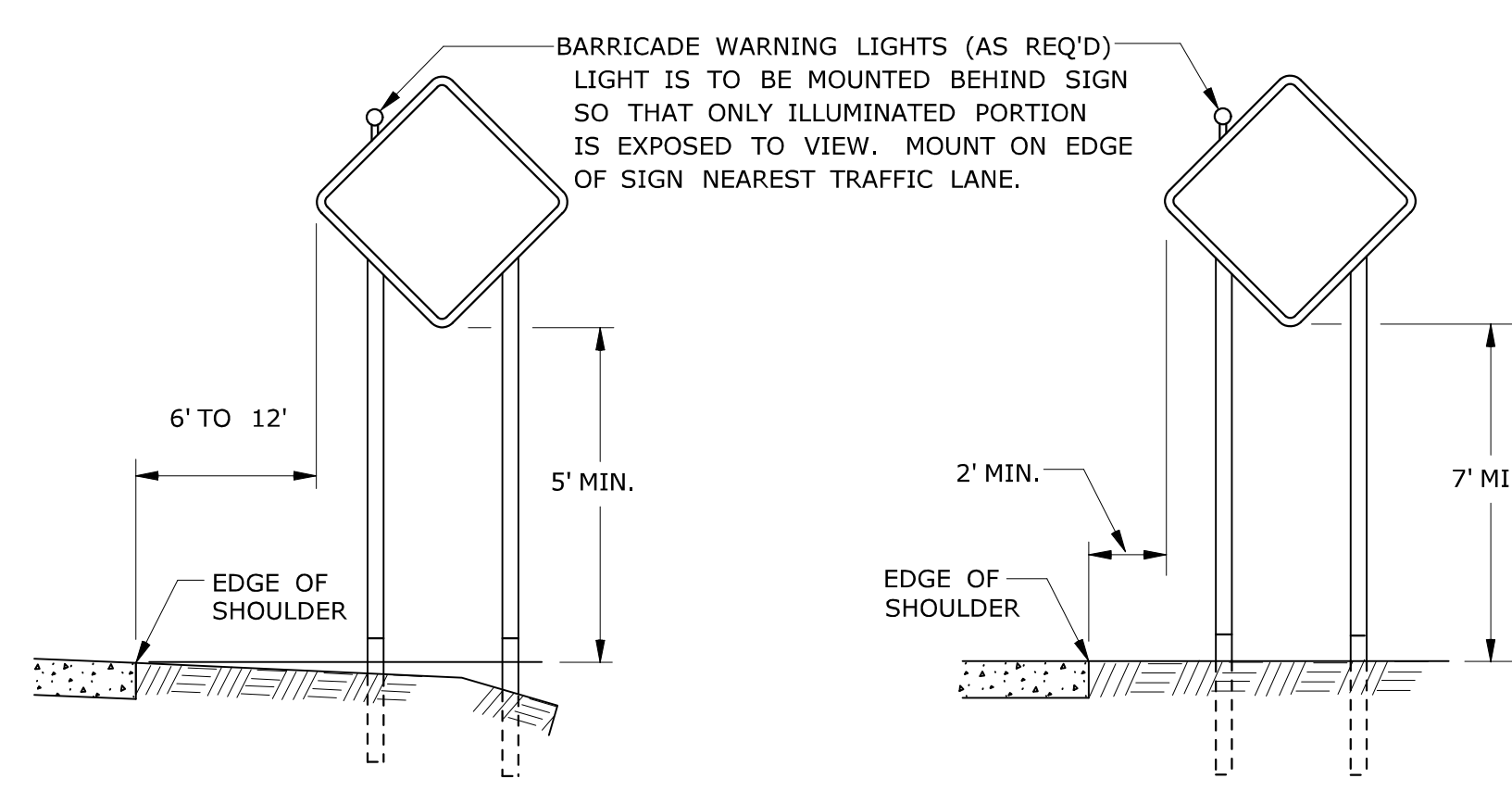
- TRAFFIC CONES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- IF RUBBER CONES ARE USED, THEY SHALL HAVE INTERIOR RIBS FOR RIGIDITY.
- IF PLASTIC CONES ARE USED, THEY SHALL BE COLOR IMPREGNATED.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY CONE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- THE ENTIRE AREA OF WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
- TRAFFIC CONES NOT USED AT NIGHT MAY UTILIZE TYPE III SHEETING.
- THE SECTIONS OF CONES NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.



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.
- MARKINGS FOR BARRICADE RAILS SHALL BE ALTERNATE FLUORESCENT ORANGE AND WHITE STRIPES SLOPING DOWNWARD IN THE DIRECTION TRAFFIC IS TO PASS. 6" WIDE STRIPES SHALL BE USED.
- THE ENTIRE AREA OF FLUORESCENT ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS. THE SIDES OF BARRICADES FACING TRAFFIC SHALL HAVE RETROREFLECTIVE RAIL FACES.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY BARRICADE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- CORNERS OF BARRICADE RAILS SHALL BE ROUNDED.
- SIGNS MAY ONLY BE INSTALLED ON TYPE III BARRICADES AND SHALL BE PLACED SO AS TO COVER NO MORE THAN ONE BARRICADE RAIL.



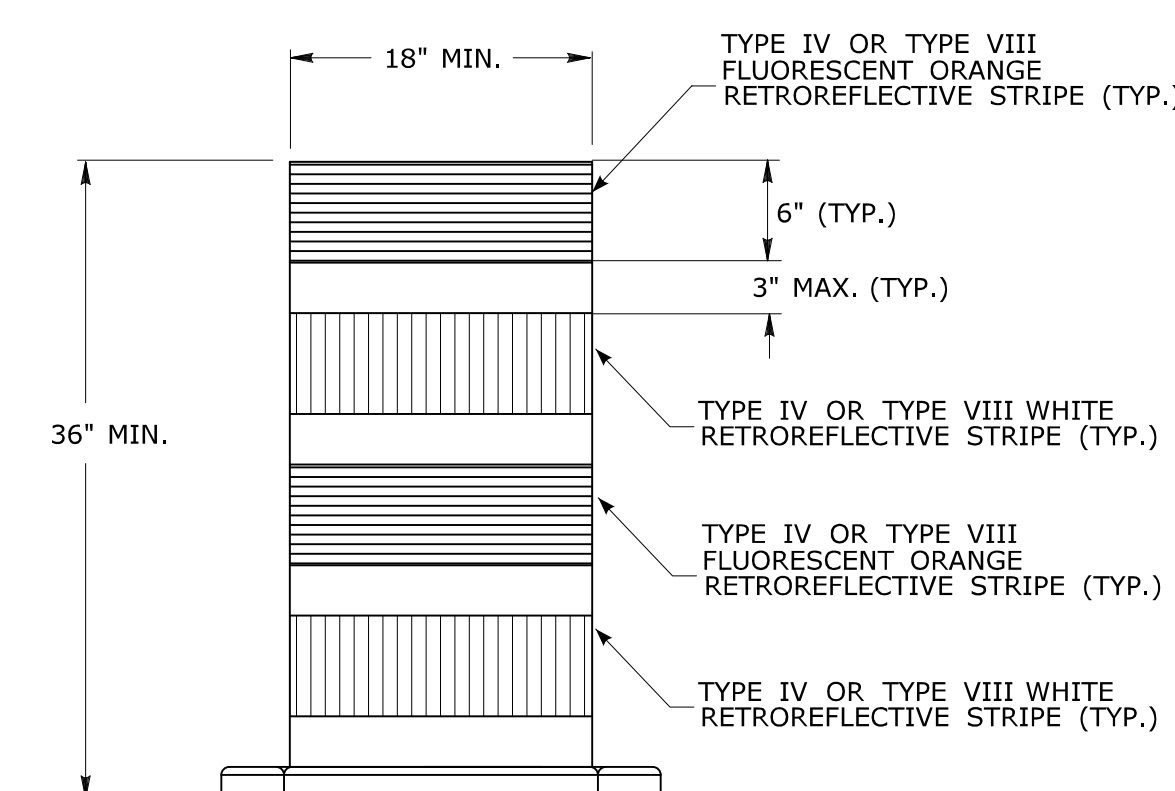
RURAL AREA

URBAN AREA

**PLACEMENT OF CONSTRUCTION SIGNS
TYPICAL LONG TERM INSTALLATION**

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."



**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 ENGINEER RESERVES THE RIGHT TO REJECT ANY DRUM DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- THE ENTIRE AREA OF FLUORESCENT ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
- THE SECTIONS OF DRUMS NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.

<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>NOT TO SCALE</p>	<p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p>	<p>SUBMITTED BY: <i>Mark Makuch</i> NAME/DATE/TIME: Mark F. Makuch, P.E. 2018.08.17 09:12:43-04'00'</p>	<p>CTDOT STANDARD SHEET</p>	<p>STANDARD SHEET TITLE: CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES</p>	<p>STANDARD SHEET NO.: TR-1220_02</p>
<p>3 8-2018 UPDATED SHEETING TYPE AND COLOR.</p> <p>2 8-2015 UPDATED PER MUTCD AND FORM 816 JAN 2015 REVISION.</p> <p>1 2-2011 MINOR REVISIONS.</p>	<p>APPROVED BY: <i>YFC</i> NAME/DATE/TIME: Mark F. Carfino, P.E. 2018.08.21 07:49:51-04'00'</p>			<p>OFFICE OF ENGINEERING</p>			
<p>REV. DATE REVISION DESCRIPTION</p>	<p>Plotted Date: 8/10/2018</p>		<p>Filename: TR-1220.02.3.2018.dgn Model: TR-1220.02</p>				