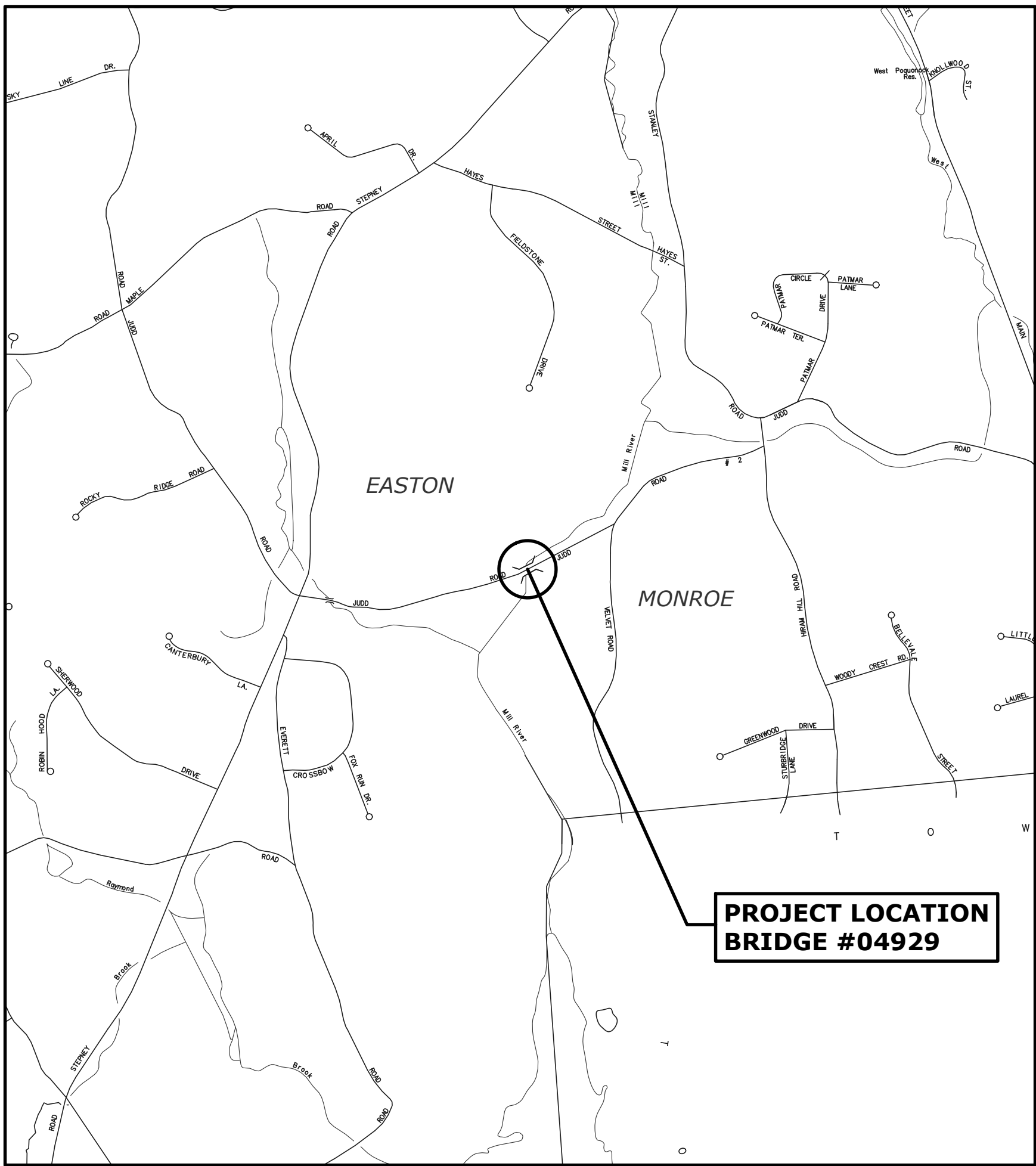


TOWN OF MONROE & EASTON, CONNECTICUT

PLAN FOR REPLACEMENT OF JUDD ROAD BRIDGE OVER MILL RIVER

BRIDGE #04929
ROADWAY RECONSTRUCTION
TO BE MAINTAINED BY THE TOWN OF MONROE



LOCATION MAP
NOT TO SCALE

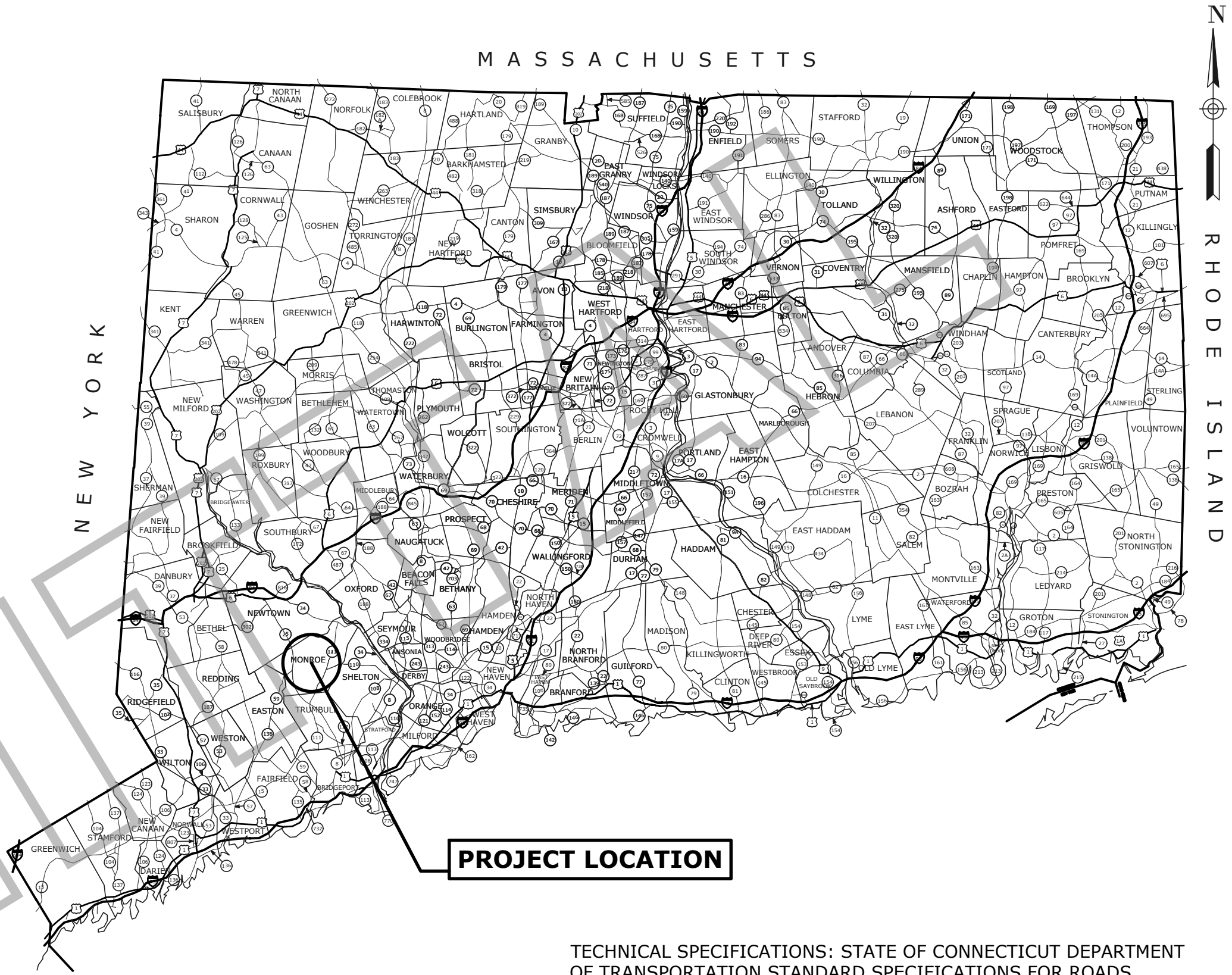
ROAD CLASSIFICATION: MINOR COLLECTOR
DESIGN SPEED: 25 MPH (POSTED)
ADT: 380 V.P.D.
ROADSIDE CLEAR ZONE: 10' MIN.

LIST OF DRAWINGS	
SHEET NO.	TITLE
1	TITLE SHEET
2	DETAILED ESTIMATE SHEET
3	DETOUR PLAN
4	EXISTING CONDITIONS PLAN
5	ROADWAY PLAN
6	ROADWAY PROFILE
7	ROADWAY DETAILS
8-10	ROADWAY CROSS SECTIONS
11	HANDLING WATER PLAN
12	EROSION AND SEDIMENTATION CONTROL DETAILS
13	STRUCTURE SECTION AND ELEVATION
14	STRUCTURE LAYOUT
15	BORING LOGS
16	ABUTMENT NO. 1 PLAN AND ELEVATION
17	ABUTMENT NO. 2 PLAN AND ELEVATION
18	WINGWALL PLANS AND ELEVATIONS
19	FRAMING AND DECK PLAN
20	REBAR STRUCTURE DETAILS
21	PRESTRESSED CONCRETE DECK UNITS
22	MISCELLANEOUS STRUCTURE DETAILS
23-24	3 TUBE CURB MOUNTED BRIDGE RAIL DETAILS
25	THRIE-BEAM ATTACHMENT DETAILS

STANDARD DRAWINGS	
DWG. NO.	TITLE
HW-822_01	TEMPORARY PRECAST CONCRETE BARRIER CURB
HW-910_20	MASH W-BEAM HARDWARE
HW-910_21	METAL BEAM RAIL (R-B MASH) GUIDERAIL
HW-910_26	THRIE-BEAM ATTACHMENT HARDWARE
HW-910_27	THRIE-BEAM ATTACHMENT
HW-911_01	R-B END ANCHORAGE TYPE I AND II
TR-1205_01	DELINEATION, DELINEATORS AND OBJECT MARKER DETAILS
TR-1208_01	SIGN PLACEMENT AND RETROREFLECTIVE STRIP DETAILS
TR-1208_02	METAL SIGN POSTS AND SIGN MOUNTING DETAILS
TR-1210_04	PAVEMENT MARKING LINES AND SYMBOLS
TR-1220_01	SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS
TR-1220_02	CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES

STANDARD CONVENTIONS	
North Arrow W/No. Coord.	Grid Arrow
Edge Of Road	Limit Of Marsh
Concrete Pavement	Stone Wall
Dirt Road	Ledge Outcrop
B.C.L.C.	"C-L" Catch Basin
Concrete Curb	Connecticut Wetland Limits
Guide Rail	Federal Wetlands Limits
Concrete Median Barrier	STATE LINE
Bit. Walk	Power Line
Conc. Sidewalk	Swamp
Railroad Tracks	Building
Chain Link Fence	Transmission Tower
Rustic Fence	Riprap
Pipe Fence	Hedge Row
Board Fence	Tree Line
Water Edge	Shrub
	Evergreen Tree
	Deciduous Tree
	Highway Line
Stream	Street Line
Ditch	Property Line
TOWN LINE	Lot Line
Boring Location	Easement Line

LEGEND:	
● Iron Pin (Found)	
■ Monument (Found)	
▲ Sign	
⊙ Manhole	
■ "C" Catch Basin	
■ "C-L" Catch Basin	
—○— Utility Pole	
☆ Light Pole	
○ Metal Post	
— Guy Anchor	
— Water Gate	
— Gas Valve	
— Gas Meter	
— Mail Box	
— Underground Piping (San., Stm.)	
— E — U/G Elec. Line	
— W — Water Line	
— OHW — Overhead Utilities	
— T — U/G Tele. Line	
— Property Line	
— Contour Line	
— Wetlands Boundary	
WF #69 Wetlands Flag	
WF #69 OHW Ordinary High Water	



TECHNICAL SPECIFICATIONS: STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, FACILITIES, AND INCIDENTAL CONSTRUCTION (FORM 818 DATED 2020) AND ALL LATEST SUPPLEMENTAL SPECIFICATIONS DATED JULY 2023 OR LATEST AT THE TIME OF BID THERETO, AS WELL AS ANY SPECIAL PROVISIONS BY THE TOWN OF MONROE.

DESIGN STANDARDS: AASHTO POLICY ON THE GEOMETRIC DESIGN OF HIGHWAYS AND STREETS, DATED 2004 AND THE CONNECTICUT DEPARTMENT OF TRANSPORTATION HIGHWAY DESIGN MANUAL DATED 2003. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS (AASHTO NINTH EDITION), DATED 2020, AS SUPPLEMENTED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE DESIGN MANUAL DATED 2003.

SURVEY: ALL COORDINATES ON THE PROJECT ARE BASED ON 1983 N.A.D. ALL ELEVATIONS ARE BASED ON 1988 N.A.V.D.

CONNECTICUT DEPARTMENT OF TRANSPORTATION OR TOWN OF MONROE BIDDING AND OTHER INFORMATION AND DOCUMENTS WHICH ARE OBTAINED THROUGH THE INTERNET, WORLD WIDE WEB SITES OR OTHER SOURCES ARE NOT TO BE CONSTRUED TO BE OFFICIAL INFORMATION FOR THE PURPOSES OF BIDDING OR CONDUCTING OTHER BUSINESS WITH THE TOWN OF MONROE.

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

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

DESIGNED BY WMC CONSULTING ENGINEERS

SUBMITTED BY _____ DATE _____

?? - TOWN OF MONROE

DATE _____

WHEREVER THE PAY UNITS IN THE LEFT COLUMN APPEAR ON THE DETAILED ESTIMATE SHEET, THEY SHALL BE CONSTRUED TO MEAN THE EQUIVALENT PAY UNITS IN THE RIGHT COLUMN ON THE PROPOSAL FORM.

c.y.	C.Y.
l.f.	L.F.
ton	TON
s.y.	S.Y.
lb.	LB.
s.f.	S.F.
gal.	GAL.
c.f.	C.F.
c.i.	C.I.

IN THE TOWN OF MONROE, CONNECTICUT

ROADW

[illegible]

STRUCTURE

[illegible]

S.F.D.
SUBMITTAL

			SUPV.	K.O.E.
			DESIGN	K.K.
			DRAWN	P.W.S.
			CHECKED	E.O.D.
NO.	DATE	DESCRIPTION	DATE	XX/XX/20XX
REVISIONS				

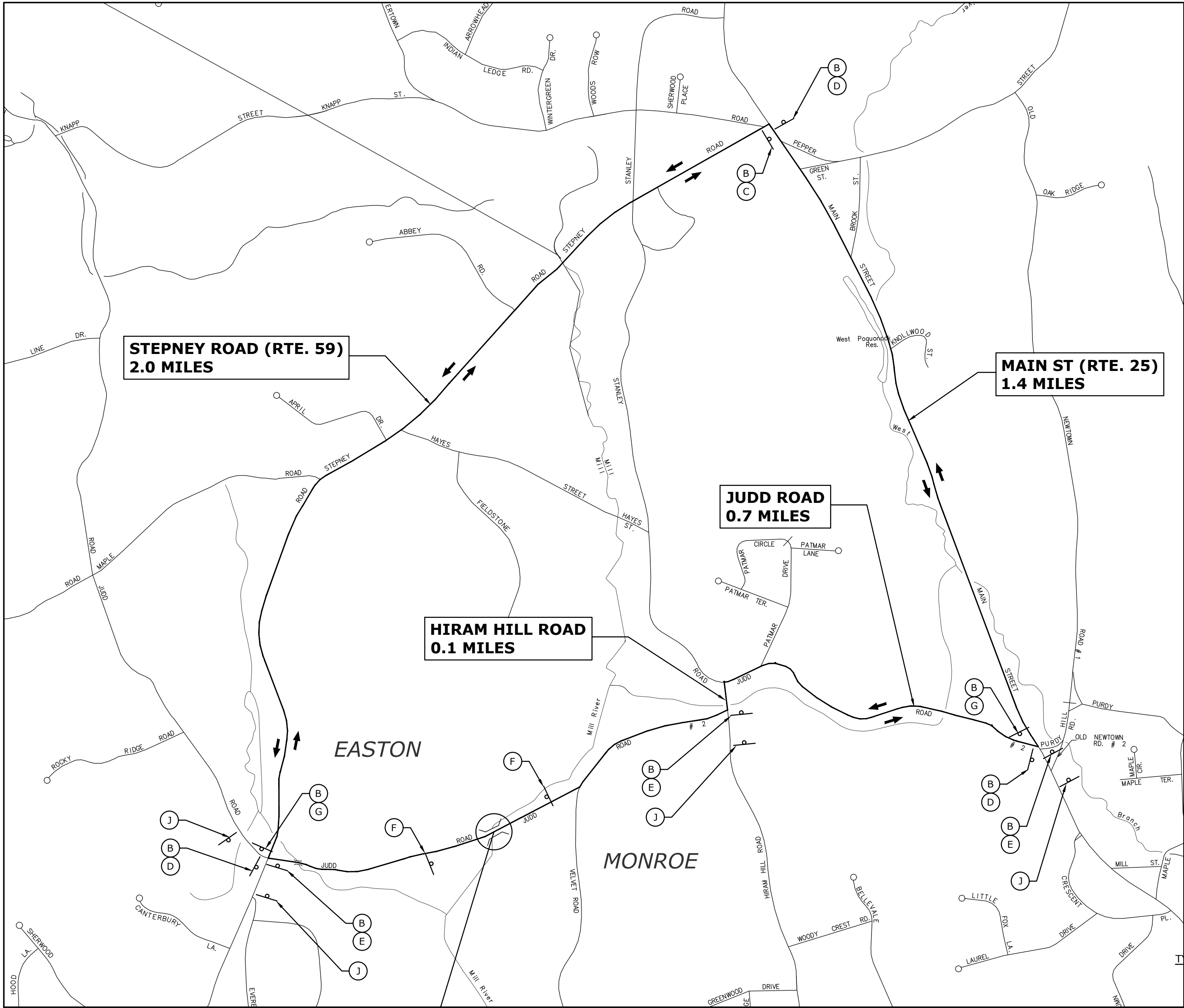


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(860) 667-9624

MONROE, CT 06468

REPLACEMENT OF BRIDGE 04929 JUDD ROAD OVER MILL RIVER DETAILED ESTIMATE SHEET

D -	JUDD ROAD	-	S.F.D.	-	22007.10	-	SHEET	2
SIZE	PROJECT		FILE NAME		NUMBER	REV.	OF	25



DETOUR PLAN
NOT TO SCALE

PROJECT LOCATION
STRUCTURE NO. 04929
(SEE PROJECT AREA DETAIL)

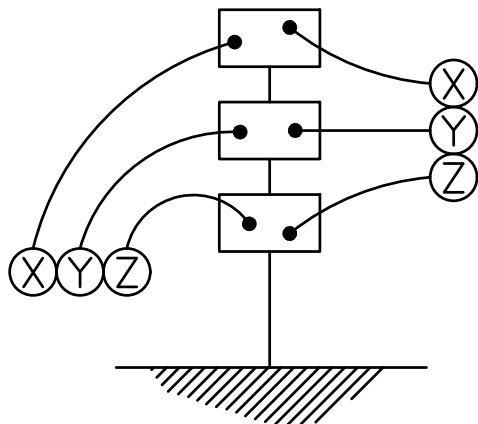
JUDD ROAD BRIDGE REPLACEMENT
CONSTRUCTION SIGNING

SIGN	CONNDOT	DIMENSION	DESCRIPTION	NO. REQ'D
A	80-9929	72" X 48"	JUDD ROAD BRIDGE CLOSED TO THRU TRAFFIC FROM 00/00 TO 00/00	2
B	80-9919	30" X 10"	JUDD ROAD	9
C	80-9710	30" X 24"	DETOUR (RIGHT ARROW)	1
D	80-9710	30" X 24"	DETOUR (LEFT ARROW)	3
E	80-9710	30" X 24"	DETOUR (STRAIGHT ARROW)	3
F	80-9078	60" X 30"	BRIDGE CLOSED 200 FEET AHEAD. LOCAL TRAFFIC ONLY	2
G	80-9708	24" X 18"	END DETOUR	2
H	31-0552	30"	STOP	2
I	80-9080	48" X 30"	ROAD CLOSED	2
J	80-9928	60" X 30"	JUDD ROAD CLOSED TO THRU TRAFFIC	3

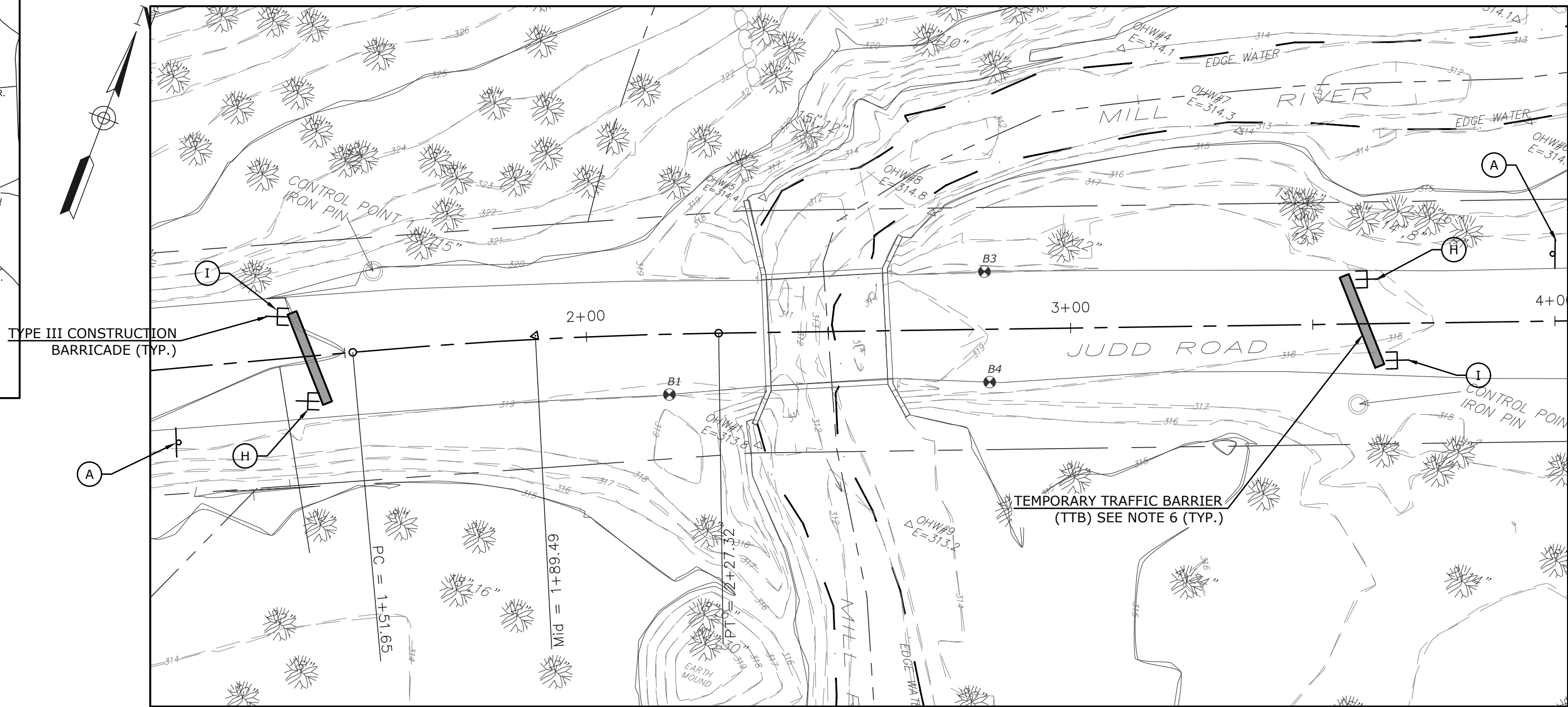
* INDICATES SIGNS TO BE VISIBLE AT LEAST 2 WEEKS PRIOR TO CONSTRUCTION
AND THEN COVERED OR REMOVED DURING CONSTRUCTION (SEE NOTE 7, THIS SHEET).
** INDICATES SIGNS MOUNTED ON TYPE III CONSTRUCTION BARRICADES WHICH SHALL BE
INSTALLED WITH BARRICADE WARNING LIGHT - HIGH INTENSITY.

MAINTENANCE AND PROTECTION OF TRAFFIC NOTES

- SIGNS LOCATIONS ARE APPROXIMATE AND SHALL BE ADJUSTED AS NEEDED TO MEET FIELD CONDITIONS OR AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL CLOSE JUDD ROAD FOR THE DURATION OF THE BRIDGE REPLACEMENT AND ROADWAY CONSTRUCTION.
- ALL TRAFFIC OVER JUDD ROAD SHALL BE DETOURED TO HIRAM HILL STREET, JUDD ROAD, MAIN STREET AND STEPNEY ROAD.
- TEMPORARY TRAFFIC BARRIERS SHALL BE PROVIDED AT BOTH ENDS OF THE WORK AREA TO ADEQUATELY WARN AND PROHIBIT MOTORISTS AND PEDESTRIANS FROM USING THE BRIDGE DURING CONSTRUCTION. THE BARRIERS SHALL EXTEND ACROSS THE FULL WIDTH OF THE EXISTING ROADWAY AND BEYOND. THE CONTRACTOR SHALL ALSO PROVIDE MOVEABLE TYPE III CONSTRUCTION BARRICADE IN FRONT OF THE TEMPORARY TRAFFIC BARRIERS, OR AS ORDERED BY THE ENGINEER, TO FURTHER ENSURE MOTORIST AND PEDESTRIAN SAFETY. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO ENSURE THE UPRIGHT STABILITY OF THE TYPE III CONSTRUCTION BARRICADES AT ALL TIMES.
- ALL TRAFFIC CONTROL AND PROTECTION DEVICES, INCLUDING PAVEMENT MARKINGS, SHALL BE IN PLACE BEFORE RESPECTIVE CONSTRUCTION OPERATION COMMENCES.
- ALL TEMPORARY TRAFFIC BARRIERS TO HAVE THREE (3) TYPE DE-7A DELINEATORS MOUNTED ON TOP (10' SPACING) AND REFLECTIVE TAPE ON TRAFFIC SIDE FOR THE ENTIRE LENGTH.
- THE CONTRACTOR SHALL NOTIFY THE TOWN AND POST THE ADVANCE NOTICE SIGNS (SIGN A) AT LEAST 2 WEEKS PRIOR TO CLOSING THE ROAD. NOTICE TO PROCEED WILL BE GIVEN TO INSTALL THE ADVANCED NOTICE SIGNS, BUT THE ROAD MUST REMAIN OPEN UNTIL THE DATE ON THE ADVANCE NOTICE SIGNS.
- ALL EXISTING CONFLICTING SIGNS SHALL BE COVERED OR REMOVED WHILE THE DETOUR IS IN EFFECT. ANY REMOVED SIGN SHALL BE REINSTALLED BEFORE THE BRIDGE IS REOPENED TO TRAFFIC.
- ALL DETOUR SIGNS SHALL BE COVERED WHILE THE DETOUR IS NOT IN EFFECT.



SIGN MOUNTING ORDER



PROJECT AREA DETAIL
SCALE : 1" = 20'-0"

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

			SUPV.	K.O.E.
			DESIGN	K.K.
			DRAWN	P.W.S.
			CHECKED	E.O.D.
NO.	DATE	DESCRIPTION	DATE	XX/XX/20XX
REVISIONS				

S.F.D.
SUBMITTAL

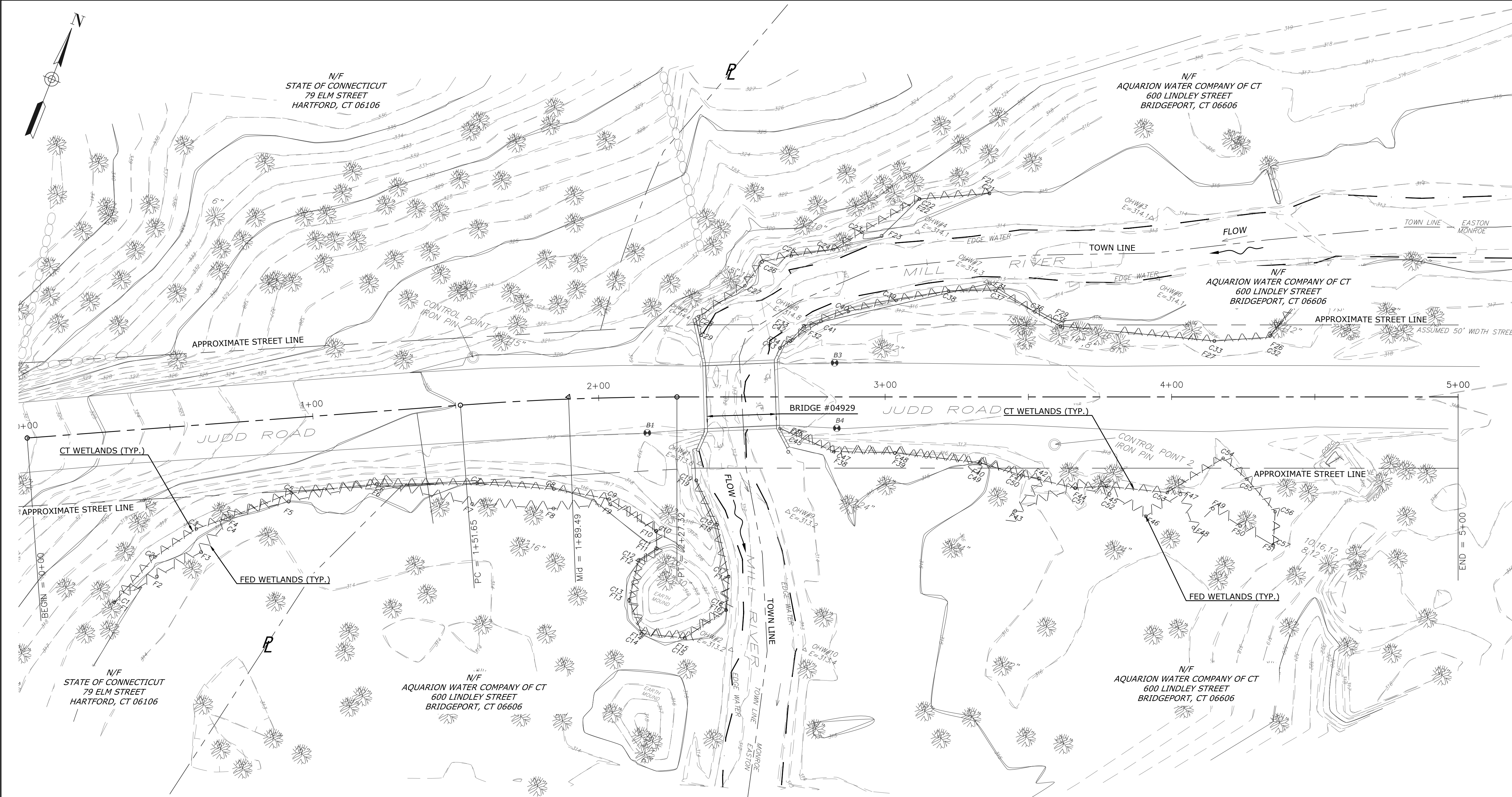


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87 HOLMES ROAD
NEWINGTON, CT 06111
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PREPARED FOR
TOWN OF MONROE
7 FAN HILL ROAD
MONROE, CT 06468

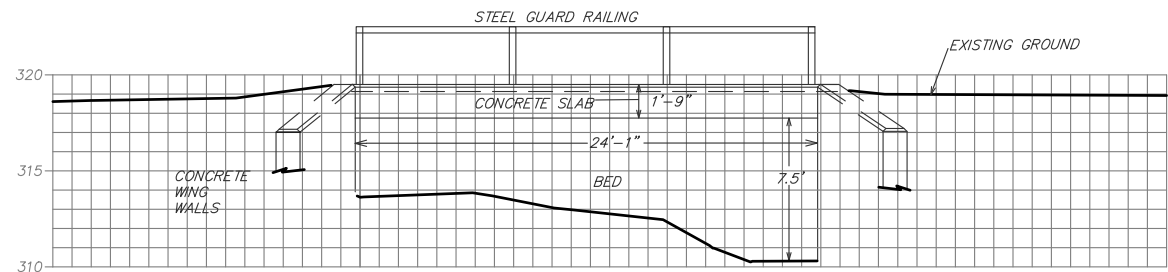
REPLACEMENT OF BRIDGE 04929
JUDD ROAD OVER MILL RIVER
DETOUR PLAN

D	JUDD ROAD	S.F.D.	22007.10	REV.	OF	3
SIZE	PROJECT	FILE NAME	NUMBER	REV.	OF	25



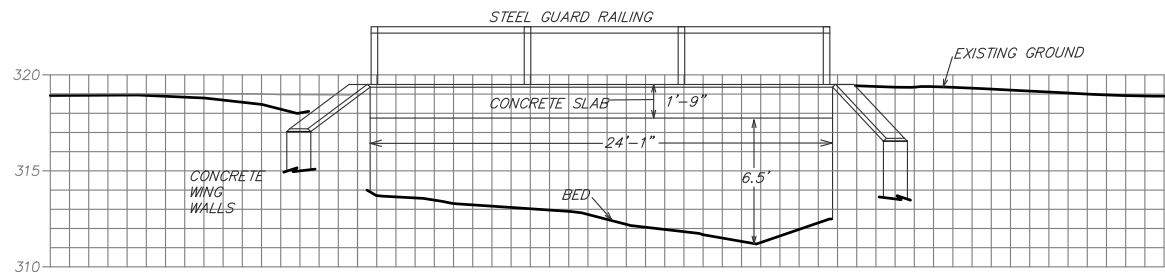
EXISTING CONDITIONS PLAN

SCALE: 1" = 20'



**VIEW LOOKING UPSTREAM
(DOWNSTREAM FACE OF BRIDGE)**

SCALE: 1" = 10'-0"



**VIEW LOOKING DOWNSTREAM
(UPSTREAM FACE OF BRIDGE)**

SCALE: 1" = 10'-0"

NOTES

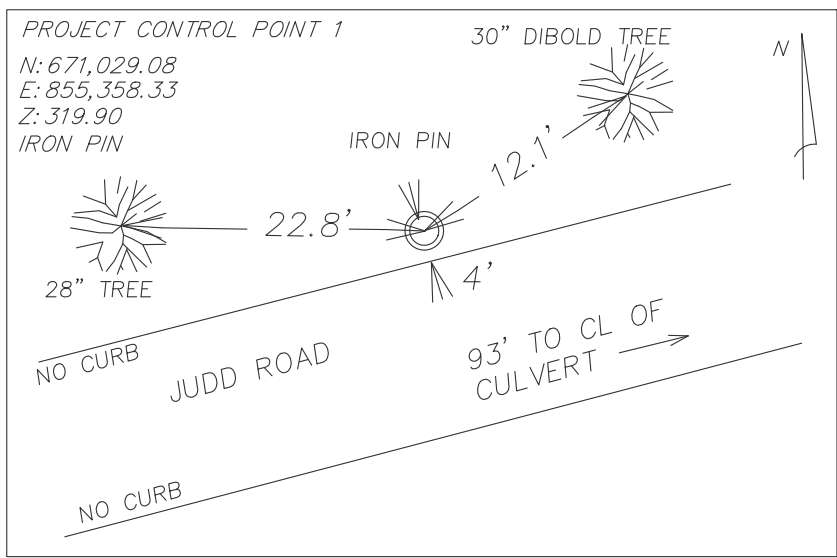
HORIZONTAL DATUM IS CT GRID 1983 NAD. VERTICAL DATUM IS 1988 NAVD. BOTH OBTAINED FROM RTK GPS READINGS. SURVEY PERFORMED IN MARCH 2023.

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON. THIS SURVEY AND MAP HAS BEEN PREPARED IN ACCORDANCE WITH SECTIONS 20-300B-1 THROUGH 20-300B-20 OF THE REGULATIONS OF CONNECTICUT'S DEPT. OF CONSUMER PROTECTION "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996. PROPERTY BOUNDARY DATA BASED ON A DEPENDENT RESURVEY CONFORMING TO HORIZONTAL ACCURACY CLASS D. THE HORIZONTAL BASELINE CONFORMS TO A CLASS A-2 ACCURACY. THE TOPOGRAPHIC SURVEY CONFORMS TO A CLASS T-2 ACCURACY.

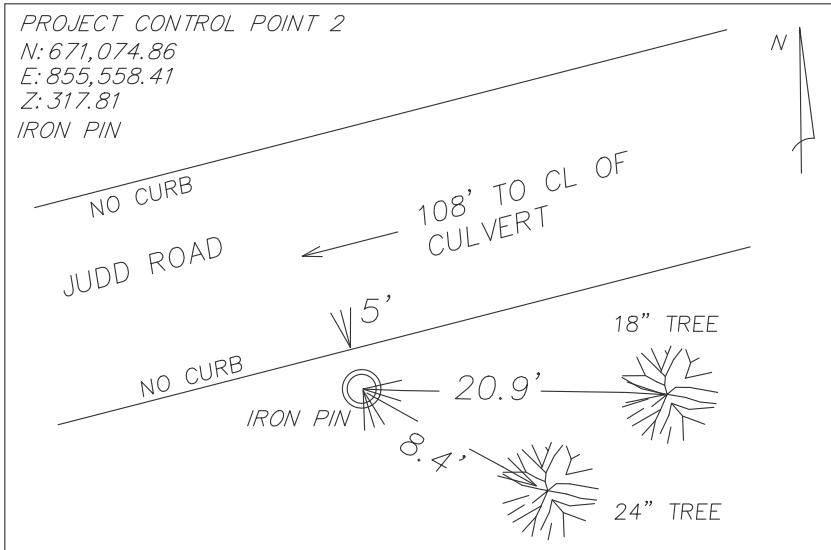
LEGEND

STONE WALL		ELECTRIC MANHOLE	
FENCE LINE		SEWER MANHOLE	
APPRX STREET LINE		TELEPHONE MANHOLE	
EXISTING GAS AS NOTED		ELEC. CABINET	
EXISTING WATER MAINS		LIGHT STD.	
EXISTING SEWER MAINS		CATCH BASINS	
EXISTING DRAINAGE PIPES		SIGN	
EXISTING UNGD. ELECTRIC		UTILITY POLE	
GUIDE RAIL		GAS BOX /WATER BOX	
TELEPHONE LINE		SIGNIFICANT TREE	
WETLANDS LIMIT			

THIS MAP AND THE UTILITIES DEPICTED HEREON WERE DERIVED FROM THE BEST AVAILABLE RECORD MAPS AND MARK-OUTS AND ARE APPROXIMATE ONLY AND SHOULD BE FIELD VERIFIED. PLEASE CONTACT "CALL BEFORE YOU DIG" AT 1-800-922-4455. ALL UTILITIES MAY NOT BE DEPICTED.



HORIZONTAL DATUM IS NAD 83/87
VERTICAL DATUM IS 88 NAVD.



HORIZONTAL DATUM IS NAD 83/87
VERTICAL DATUM IS 88 NAVD.

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

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			DRAWN	P.W.S.
			CHECKED	E.O.D.
NO.	DATE	DESCRIPTION	DATE	XX/XX/20XX
REVISIONS				

S.F.D.
SUBMITTAL



CONSULTING ENGINEERS

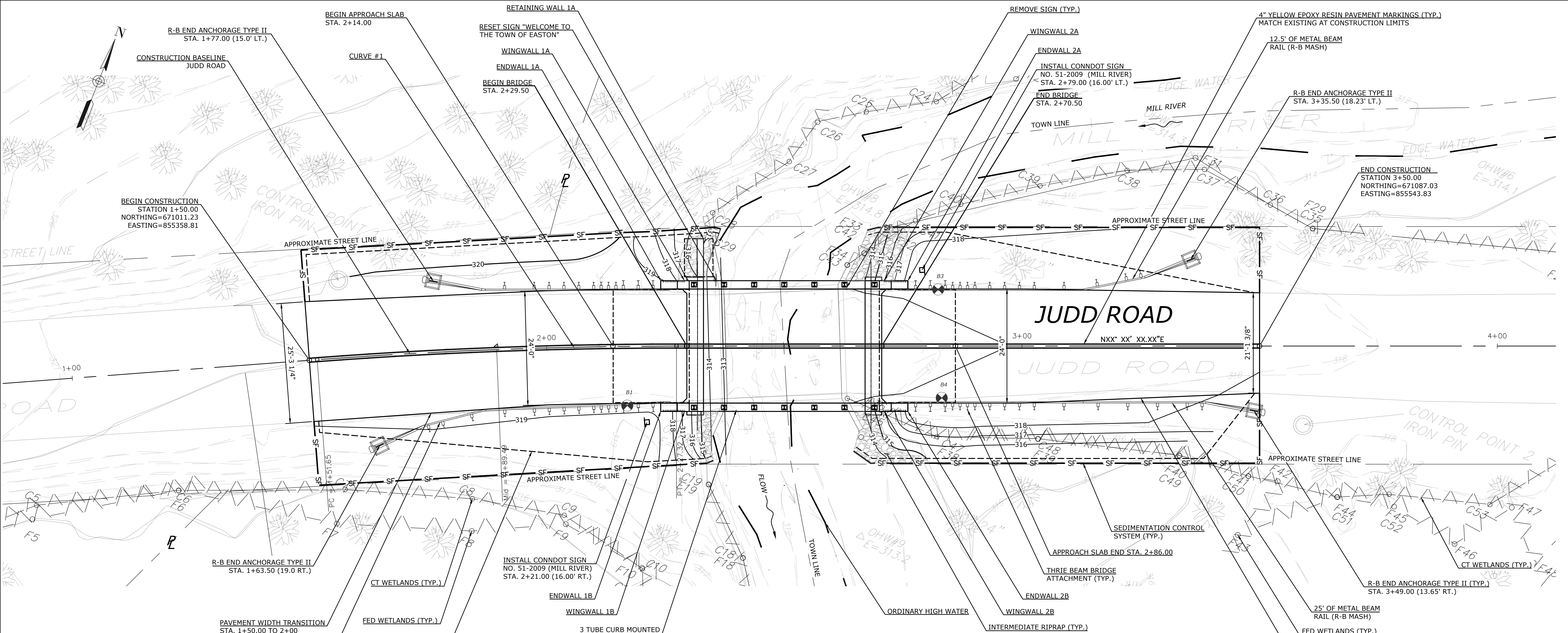
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87 HOLMES ROAD
NEWINGTON, CT 06111
(860) 667-9624

PREPARED FOR

TOWN OF MONROE
7 FAN HILL ROAD
MONROE, CT 06468

**REPLACEMENT OF BRIDGE 04929
JUDD ROAD OVER MILL RIVER
EXISTING CONDITION PLAN**

D -	JUDD ROAD	-	S.F.D.	-	22007.10	-	SHEET	4
SIZE	PROJECT		FILE NAME		NUMBER		REV.	OF
								25



CONSTRUCTION NOTES:

- ALL MAILBOXES AND FENCES DISTURBED OR REMOVED DURING CONSTRUCTION SHALL BE RESET AS NECESSARY. (PAID FOR UNDER "CLEARING AND GRUBBING".)
- EFFLUENT FROM DEWATERED WORK AREA(S) SHOULD NOT BE DISCHARGED DIRECTLY TO THE RIVER BUT MUST BE PROCESSED THROUGH TREATMENT STRUCTURE(S). SUCH STRUCTURE(S) SHOULD NOT BE LOCATED WITHIN THE RIVER CHANNEL OR ADJACENT WETLANDS.
- ALL APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES SHOULD BE ESTABLISHED PRIOR TO AND MAINTAINED THROUGHOUT ALL CONSTRUCTION PHASES.
- ANY ACTIVITIES OTHER THAN THOSE SHOWN ON THE PLANS OR DETAILED IN THE WETLANDS PERMIT THAT OCCUR IN THE REGULATED WETLANDS AREA SHALL BE SUBJECT TO APPROVAL BY THE LOCAL INLAND/WETLANDS AUTHORITY OR ITS DESIGNATED REPRESENTATIVE.
- DURING ALL PHASES OF CONSTRUCTION ACTIVITIES, ACCESS FOR THE PROPERTY OWNERS AS WELL AS ALL SERVICE VEHICLES SUCH AS MAIL, TRASH COLLECTION, FUEL DELIVERIES, ETC. SHALL BE MAINTAINED BY THE CONTRACTOR TO ABUTTING PROPERTIES WITHIN THE LIMITS OF THE WORK.
- SURVEY INCLUDING WETLAND FLAG LOCATIONS, PERFORMED BY WILLIAM HEARN L.S..

PAVEMENT MARKING NOTES:

- FINAL PAVEMENT MARKING SHALL BE EPOXY RESIN AND SHALL MATCH EXISTING MARKINGS AT CONSTRUCTION LIMITS.

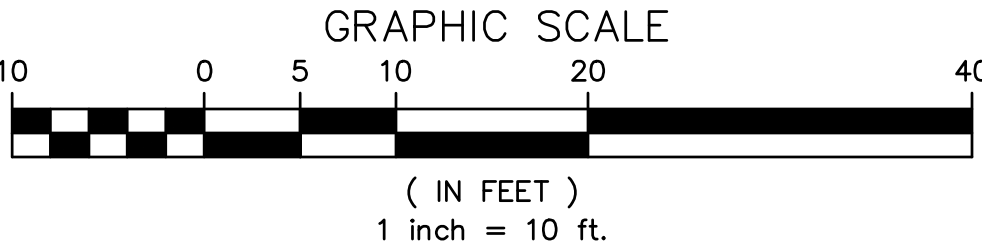
SIGNING NOTES:

- ALL EXISTING SIGNS WITHIN THE SIGNING LIMITS ARE TO BE REMOVED UNLESS OTHERWISE NOTED ON THE PLAN OR DIRECTED BY THE ENGINEER.
- SIGNS TO BE INSTALLED PER TRAFFIC STANDARD SHEETS TR-1208_01 AND TR-1208_02 "METAL SIGN POSTS AND SIGN MOUNTING DETAILS", EXCEPT AS NOTED.
- EXACT SIGN LOCATIONS TO BE VERIFIED BY THE ENGINEER.
- SIGNS SHALL BE PLACED NO CLOSER THAN 10 FEET FROM UTILITY POLES.

PROPOSED ROADWAY PLAN

SCALE: 1" = 10'

APPROXIMATE BORING LOCATIONS



CURVE DATA	
CURVE #1	
PI N855394.39	
PI E671028.39	
L=75.67'	
Δ=4.3355	
R=1000.00'	
T=75.65'	

DESIGN DATA	
ROAD CLASS	MINOR COLLECTOR
DESIGN SPEED	30 MPH
ADT	380
RADIUS (MIN.)	1000'
e	N/A
MAXIMUM GRADE	1.25%
CROSS SLOPE	2.00%
K (SAG MIN.)	16.86
K (CREST MIN.)	N/A
STOPPING SIGHT DISTANCE	> 200 FT.

SURVEY NOTES:
HORIZONTAL DATUM: NAD83
CLASS A-2
VERTICAL DATUM IS NAVD88
VERTICAL ACCURACY: CLASS T-2

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NO.	DATE	DESCRIPTION	DATE
REVISIONS		XX/XX/20XX	

S.F.D.
SUBMITTAL



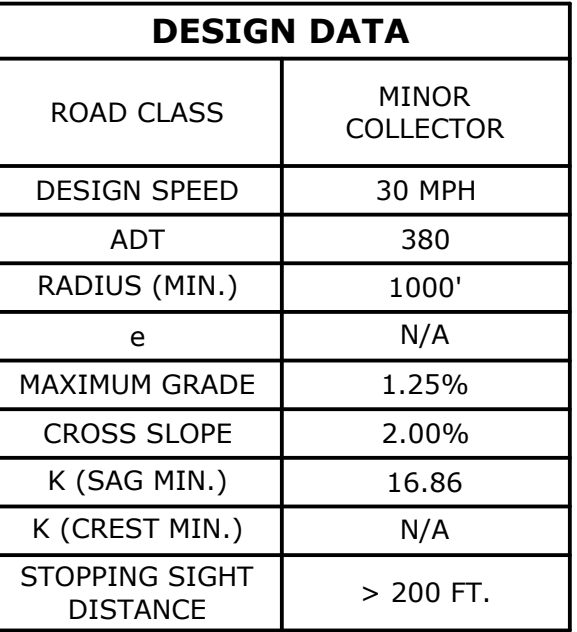
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PREPARED FOR

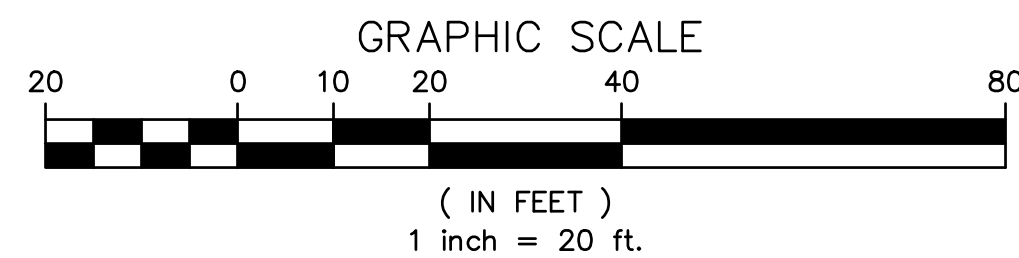
TOWN OF MONROE
7 FAN HILL ROAD
MONROE, CT 06468

REPLACEMENT OF BRIDGE 04929
JUDD ROAD OVER MILL RIVER
ROADWAY PLAN

D -	JUDD ROAD	-	S.F.D.	-	22007.10	-	SHEET	5
SIZE	PROJECT		FILE NAME		NUMBER		REV.	OF
								25



SURVEY NOTES:
HORIZONTAL DATUM: NAD83
HORIZONTAL ACCURACY: CLASS A-2
VERTICAL DATUM IS NAVD88
VERTICAL ACCURACY: CLASS T-2



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REVISIONS				

S.F.D.
SUBMITTAL

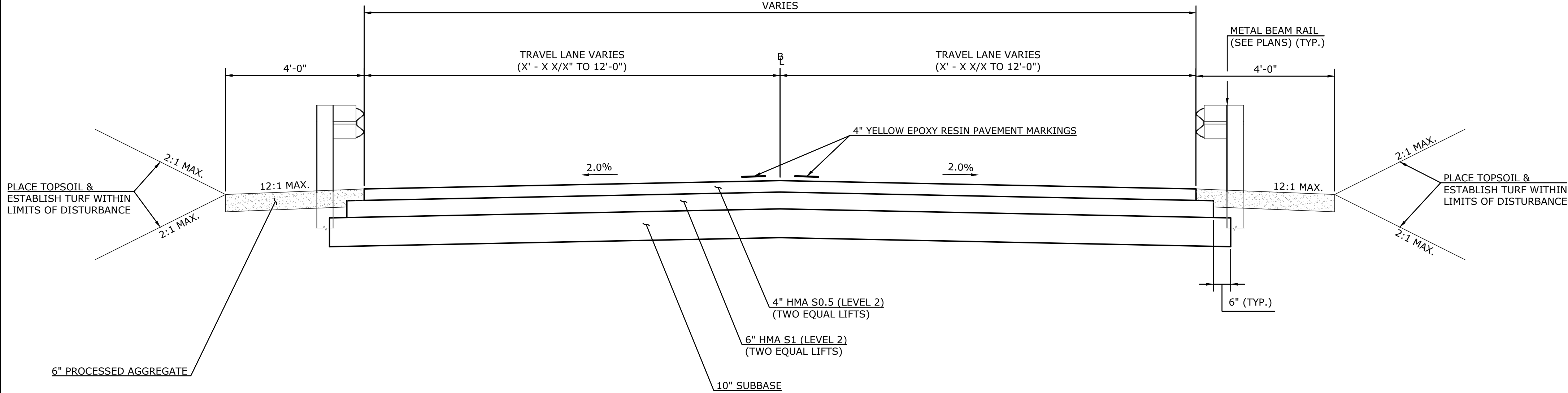


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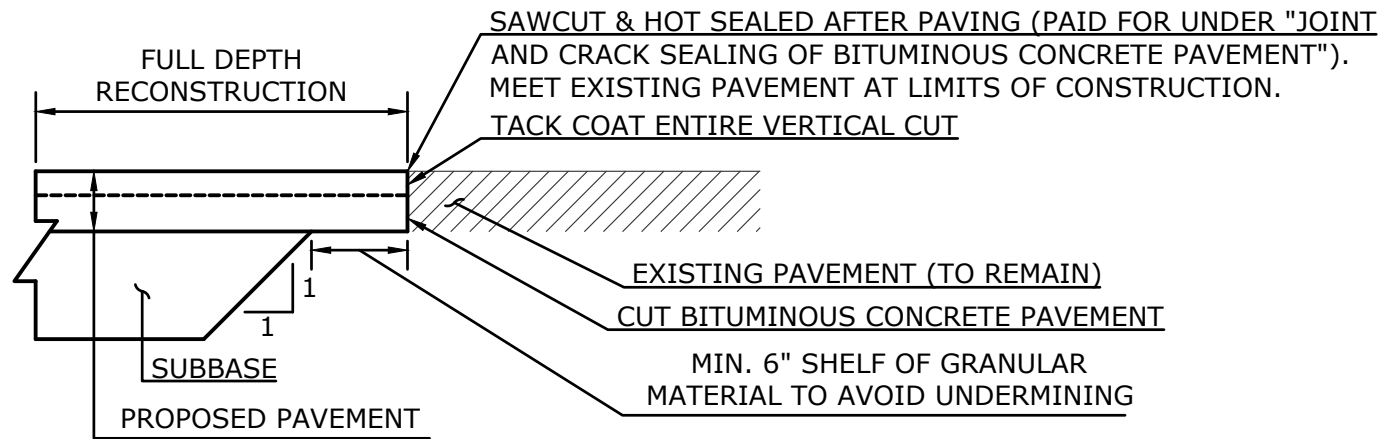
REPLACEMENT OF BRIDGE 04929 JUDD ROAD OVER MILL RIVER ROADWAY PROFILE

D -	JUDD ROAD	-	S.F.D.	-	22007.10	-	SHEET	6
SIZE	PROJECT		FILE NAME		NUMBER	REV.	OF	25



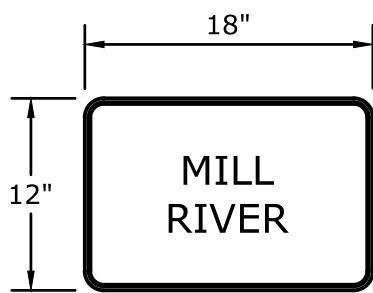
JUDD ROAD STA. 1+50.00 - 2+14.00 / 2+86.00 - 3+50.00
TYPICAL ROADWAY SECTION

SCALE: 1" = 2'

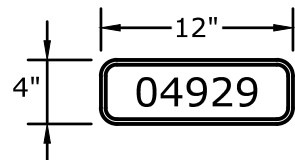


ROADWAY PAVEMENT TRANSITION DETAIL
AT CONSTRUCTION LIMITS

SCALE: N.T.S.



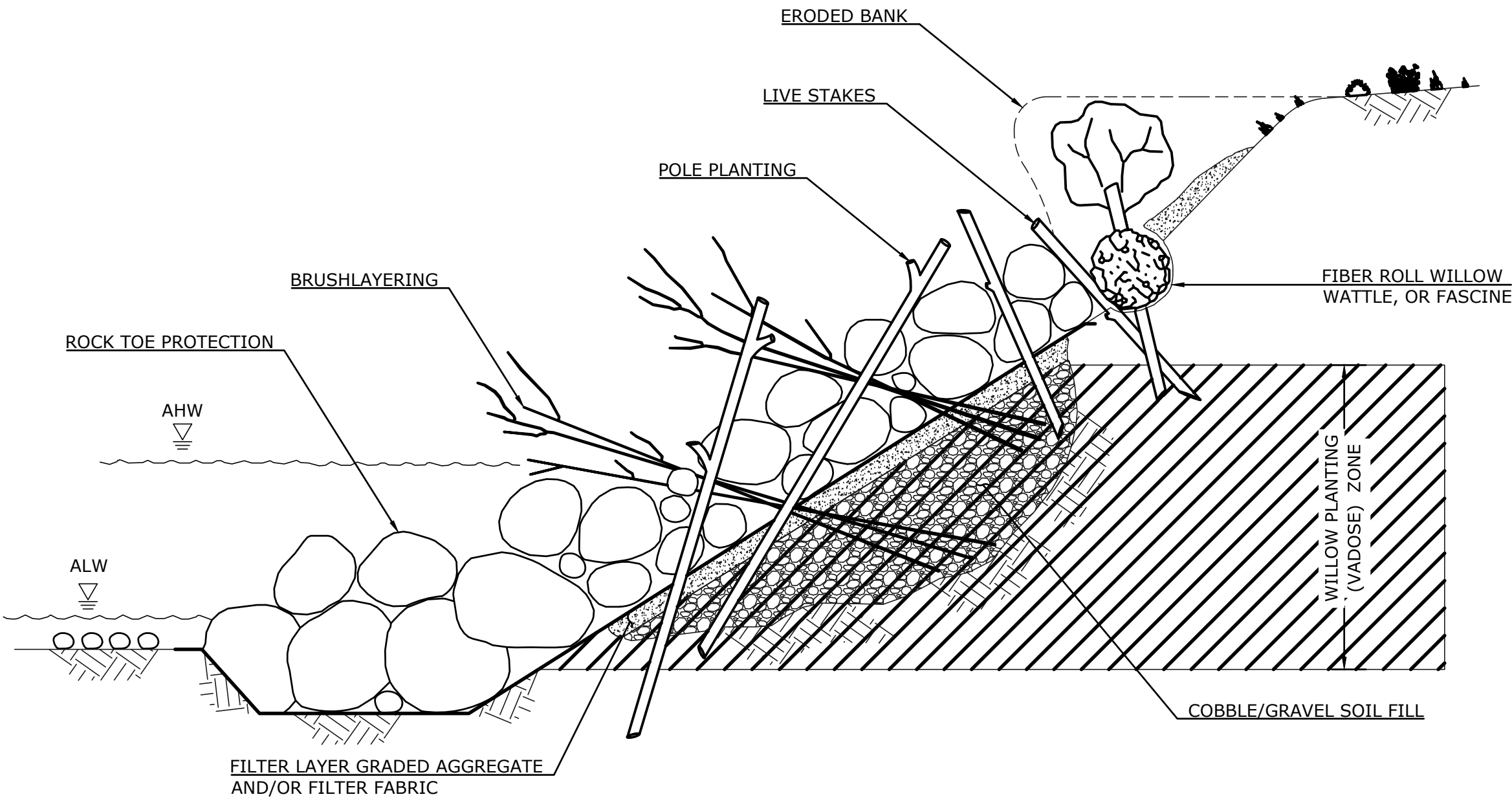
CONNDOT SIGN NO. 51-2009
NOT TO SCALE



BRIDGE IDENTIFICATION
PLACARD
NOT TO SCALE

SCHEDULE OF SIGNS							
CONNDOT SIGN NO.	SIZE	LEGEND	LOCATION	ALUM. THK.	POSTS	BACKGROUND COLOR	LEGEND COLOR
51-2009	18" X 12"	MILL RIVER	STA. 2+21, 16.00'± R	0.080	2	GREEN	WHITE
51-2009	18" X 12"	MILL RIVER	STA. 2+79, 16.00'± L	0.080	2	GREEN	WHITE
N/A	12" X 4"	055002	ENDWALL 1B	-	-	GREEN	WHITE
N/A	12" X 4"	055002	ENDWALL 2A	-	-	GREEN	WHITE

* NOTE: ALL COLORS SHALL BE TYPE IX RETROREFLECTIVE WITH THE EXCEPTION OF BLACK WHICH SHALL BE OPAQUE.



NOTES:

1. INSTALL WILLOW POLE PLANTING AND BRUSHLAYERING DURING BANK GRADING AND RIPRAP PLACEMENT TO ENSURE GOOD CONTACT WITH NATIVE GROUND' AND/OR SOIL FILL.
2. WILLOW POLES AND BRUSH LAYERS SHOULD EXTEND DOWN INTO EXPECTED SOIL MOISTURE ZONES (VADOSE).
3. CUT SMALL HOLES OR SLITS IN FILTER FABRIC AS NECESSARY.
4. PLACE SOIL FILL (COBBLES, GRAVEL, SOIL) AROUND CUTTINGS.
5. PLACE RIPRAP CAREFULLY, DO NOT END DUMP. SOME DAMAGE TO BRUSH LAYERS AND WILLOW POLES IS UNAVOIDABLE AND ACCEPTABLE. DEEPLY PLANTED WILLOW MATERIAL WILL REGENERATE.

VEGETATED RIPRAP W/ BRUSHLAYERING & POLE PLANTING

NOT TO SCALE

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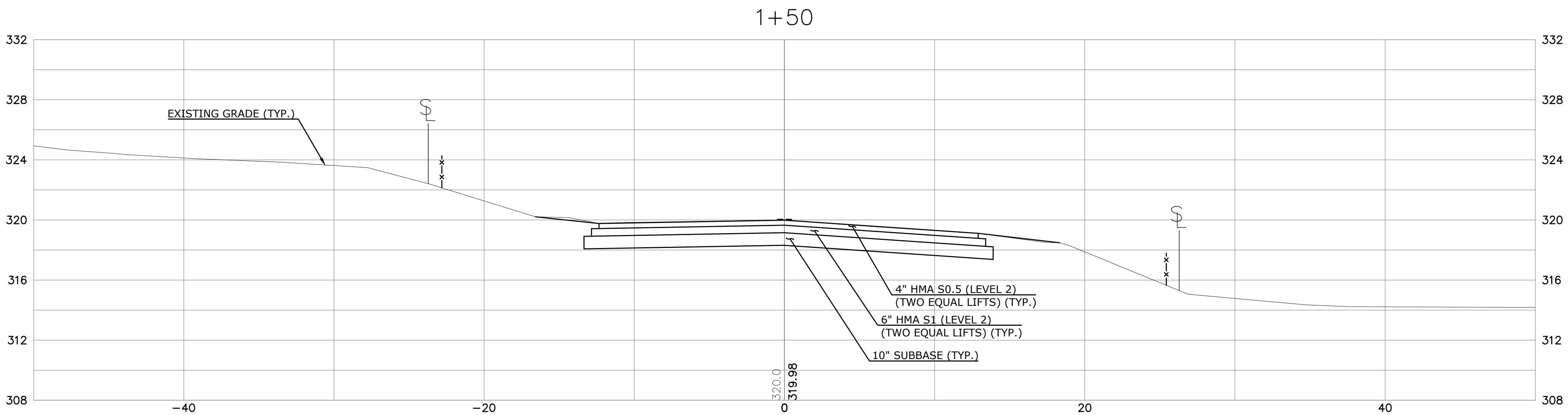
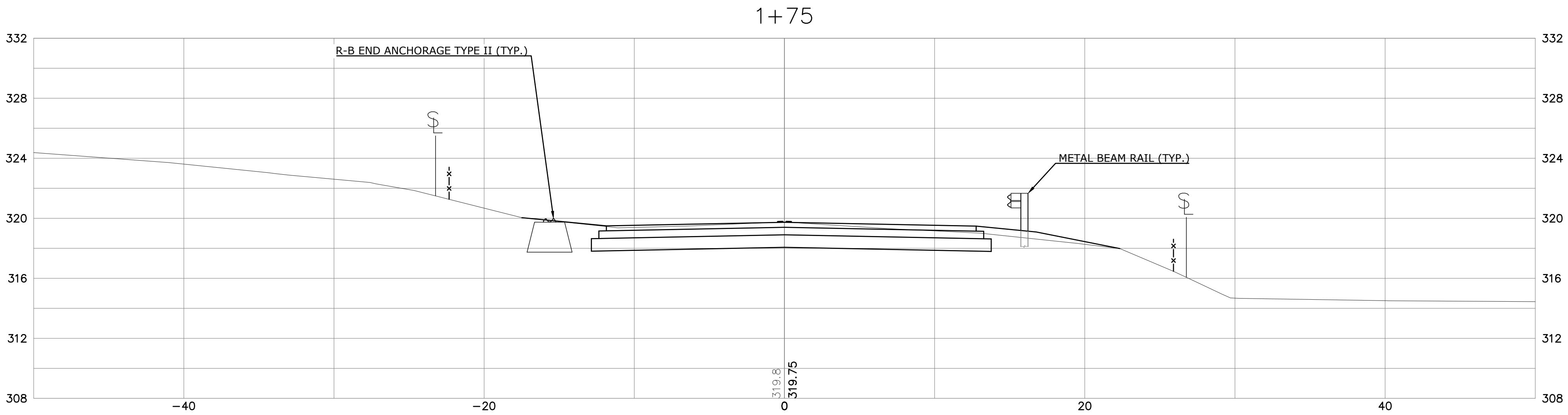
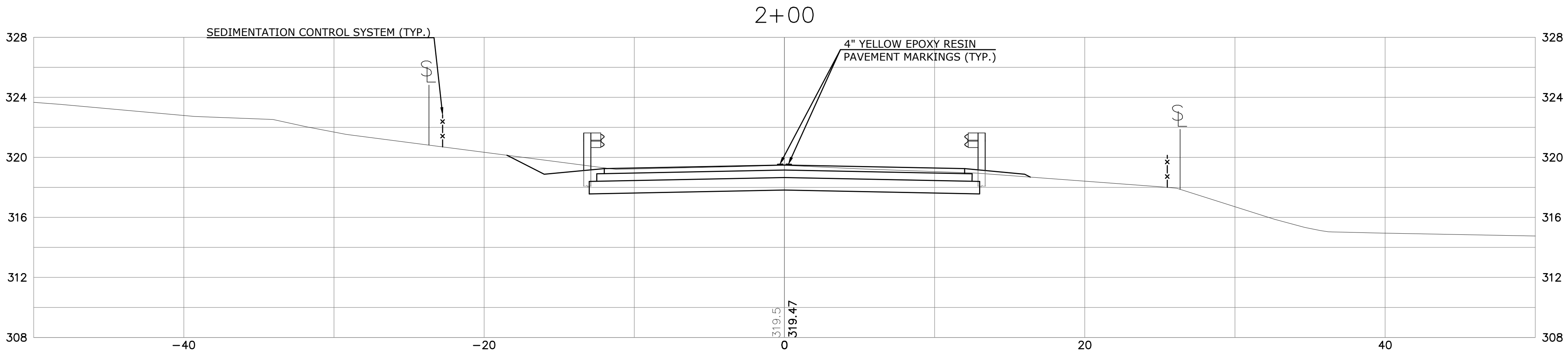
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TOWN OF MONROE
7 FAN HILL ROAD
MONROE, CT 06468

REPLACEMENT OF BRIDGE 04929
JUDD ROAD OVER MILL RIVER
ROADWAY DETAILS

D -	JUDD ROAD	-	S.F.D.	-	22007.10	-	SHEET	7
SIZE	PROJECT		FILE NAME		NUMBER		REV.	OF

25



ROADWAY SECTIONS

SCALE: 1" = 5'

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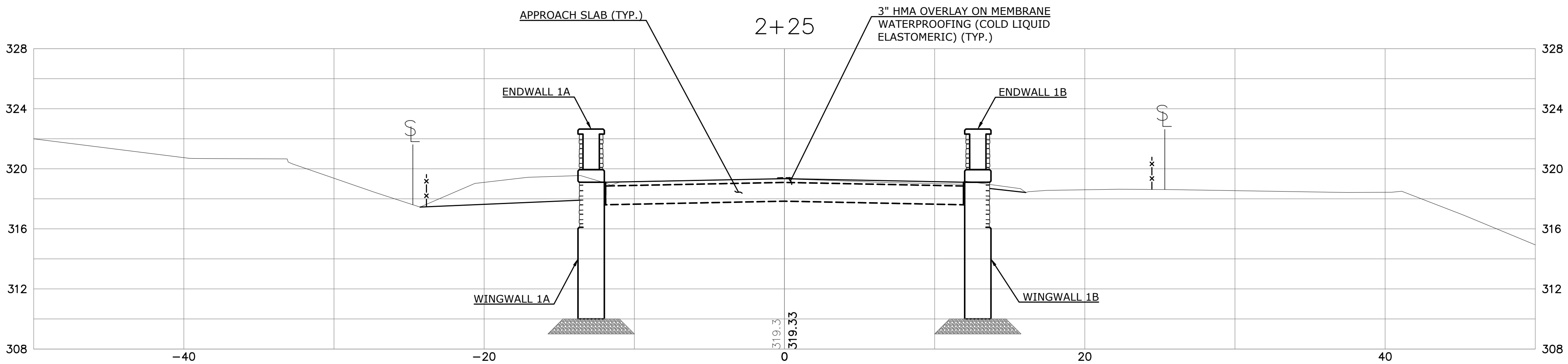
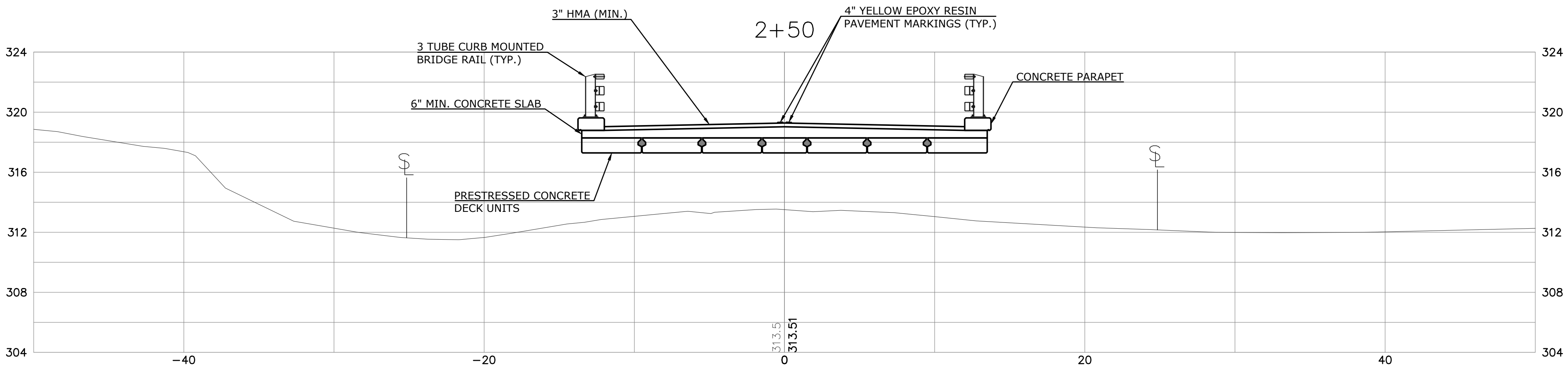
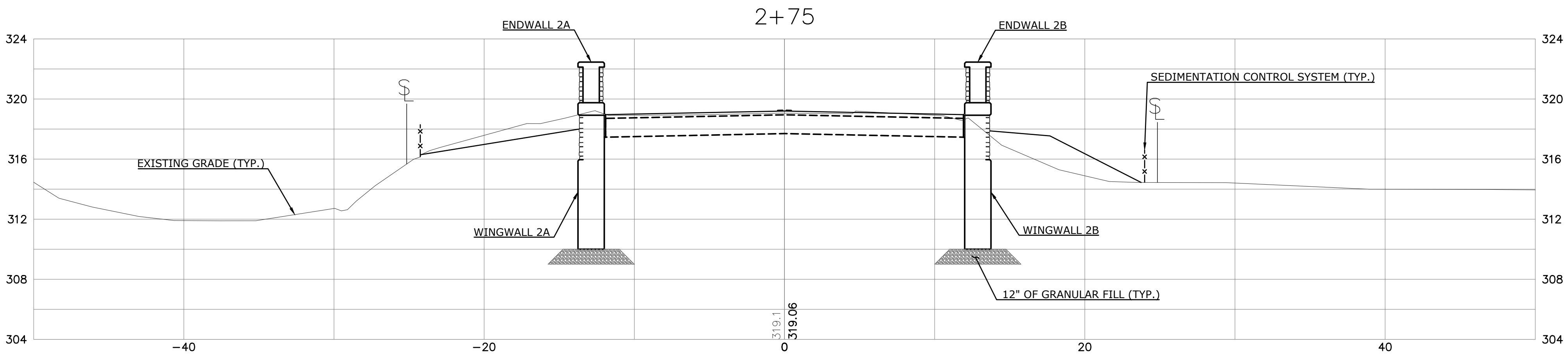


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REPLACEMENT OF BRIDGE 04929
JUDD ROAD OVER MILL RIVER
ROADWAY CROSS SECTIONS - 1

D	JUDD ROAD	S.F.D.	22007.10		SHEET	8
SIZE	PROJECT	FILE NAME	NUMBER	REV.	OF	25



ROADWAY SECTIONS

SCALE: 1" = 5'

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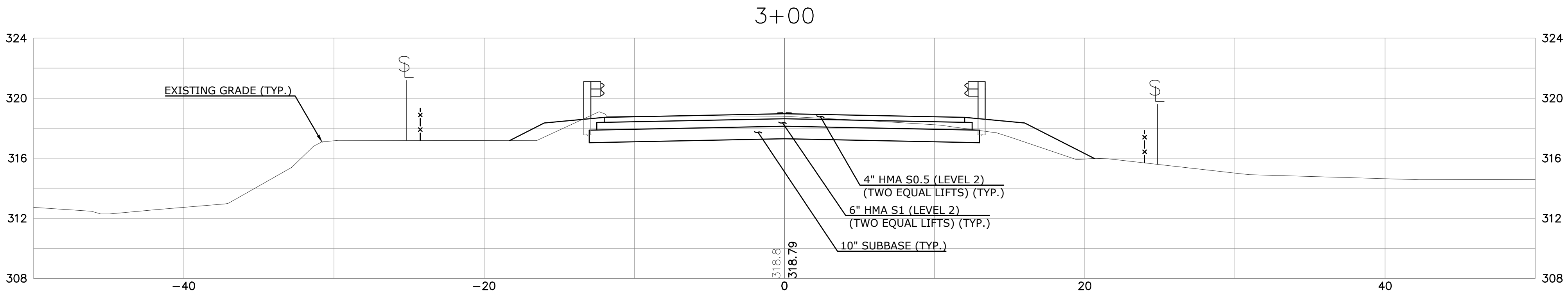
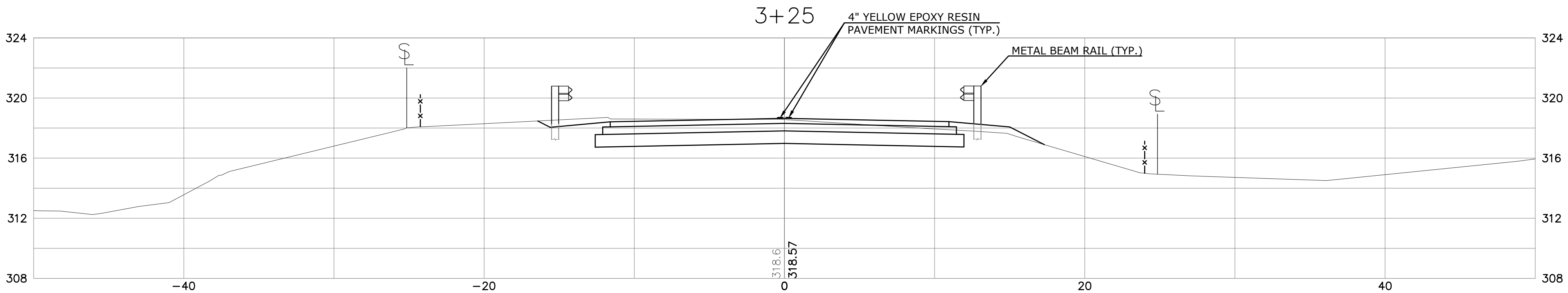
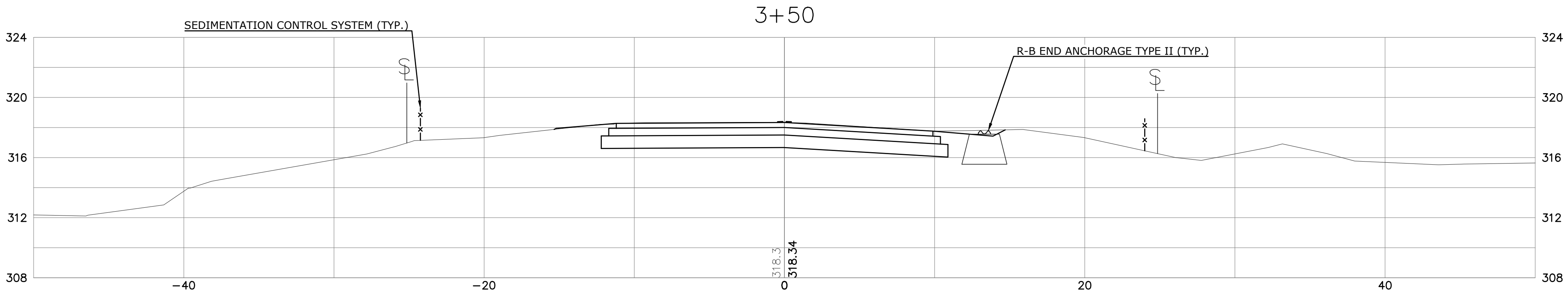
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REPLACEMENT OF BRIDGE 04929
JUDD ROAD OVER MILL RIVER
ROADWAY CROSS SECTIONS - 2

D - JUDD ROAD - S.F.D. - 22007.10 -					SHEET 9	
SIZE	PROJECT	FILE NAME	NUMBER	REV.	OF	25



ROADWAY SECTIONS
SCALE: 1" = 5'

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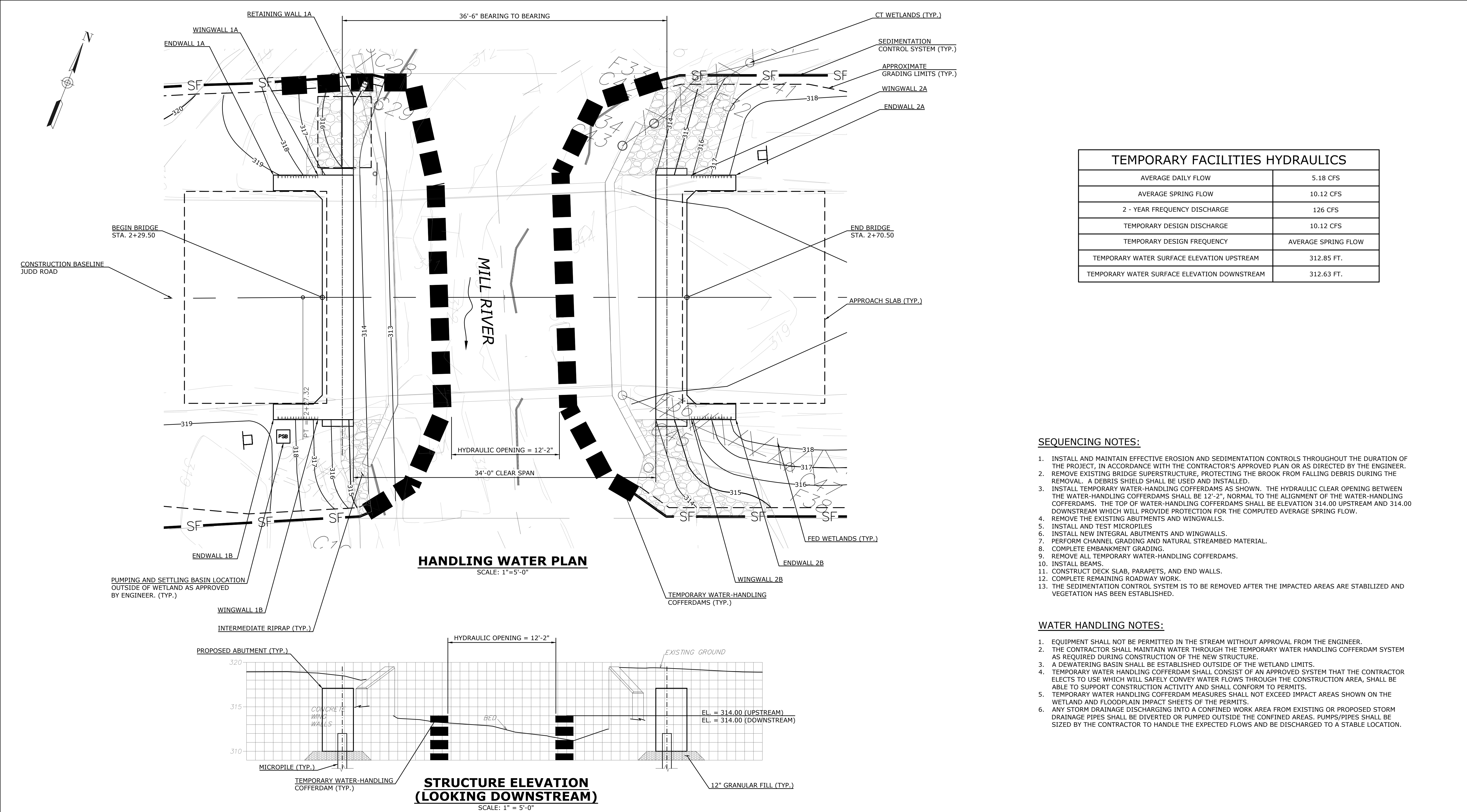
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REPLACEMENT OF BRIDGE 04929 JUDD ROAD OVER MILL RIVER ROADWAY CROSS SECTIONS - 3					SHEET	10
D	JUDD ROAD	S.F.D.	22007.10		OF	25
SIZE	PROJECT	FILE NAME	NUMBER	REV.		



TEMPORARY FACILITIES HYDRAULICS	
AVERAGE DAILY FLOW	5.18 CFS
AVERAGE SPRING FLOW	10.12 CFS
2 - YEAR FREQUENCY DISCHARGE	126 CFS
TEMPORARY DESIGN DISCHARGE	10.12 CFS
TEMPORARY DESIGN FREQUENCY	AVERAGE SPRING FLOW
TEMPORARY WATER SURFACE ELEVATION UPSTREAM	312.85 FT.
TEMPORARY WATER SURFACE ELEVATION DOWNSTREAM	312.63 FT.

SEQUENCING NOTES:

1. INSTALL AND MAINTAIN EFFECTIVE EROSION AND SEDIMENTATION CONTROLS THROUGHOUT THE DURATION OF THE PROJECT, IN ACCORDANCE WITH THE CONTRACTOR'S APPROVED PLAN OR AS DIRECTED BY THE ENGINEER.
2. REMOVE EXISTING BRIDGE SUPERSTRUCTURE, PROTECTING THE BROOK FROM FALLING DEBRIS DURING THE REMOVAL. A DEBRIS SHIELD SHALL BE USED AND INSTALLED.
3. INSTALL TEMPORARY WATER-HANDLING COFFERDAMS AS SHOWN. THE HYDRAULIC CLEAR OPENING BETWEEN THE WATER-HANDLING COFFERDAMS SHALL BE 12'-2", NORMAL TO THE ALIGNMENT OF THE WATER-HANDLING COFFERDAMS. THE TOP OF WATER-HANDLING COFFERDAMS SHALL BE ELEVATION 314.00 UPSTREAM AND 314.00 DOWNSTREAM WHICH WILL PROVIDE PROTECTION FOR THE COMPUTED AVERAGE SPRING FLOW.
4. REMOVE THE EXISTING ABUTMENTS AND WINGWALLS.
5. INSTALL AND TEST MICROPILES
6. INSTALL NEW INTEGRAL ABUTMENTS AND WINGWALLS.
7. PERFORM CHANNEL GRADING AND NATURAL STREAMBED MATERIAL.
8. COMPLETE EMBANKMENT GRADING.
9. REMOVE ALL TEMPORARY WATER-HANDLING COFFERDAMS.
10. INSTALL BEAMS.
11. CONSTRUCT DECK SLAB, PARAPETS, AND END WALLS.
12. COMPLETE REMAINING ROADWAY WORK.
13. THE SEDIMENTATION CONTROL SYSTEM IS TO BE REMOVED AFTER THE IMPACTED AREAS ARE STABILIZED AND VEGETATION HAS BEEN ESTABLISHED.

WATER HANDLING NOTES:

1. EQUIPMENT SHALL NOT BE PERMITTED IN THE STREAM WITHOUT APPROVAL FROM THE ENGINEER.
2. THE CONTRACTOR SHALL MAINTAIN WATER THROUGH THE TEMPORARY WATER HANDLING COFFERDAM SYSTEM AS REQUIRED DURING CONSTRUCTION OF THE NEW STRUCTURE.
3. A DEWATERING BASIN SHALL BE ESTABLISHED OUTSIDE OF THE WETLAND LIMITS.
4. TEMPORARY WATER HANDLING COFFERDAM SHALL CONSIST OF AN APPROVED SYSTEM THAT THE CONTRACTOR ELECTS TO USE WHICH WILL SAFELY CONVEY WATER FLOWS THROUGH THE CONSTRUCTION AREA, SHALL BE ABLE TO SUPPORT CONSTRUCTION ACTIVITY AND SHALL CONFORM TO PERMITS.
5. TEMPORARY WATER HANDLING COFFERDAM MEASURES SHALL NOT EXCEED IMPACT AREAS SHOWN ON THE WETLAND AND FLOODPLAIN IMPACT SHEETS OF THE PERMITS.
6. ANY STORM DRAINAGE DISCHARGING INTO A CONFINED WORK AREA FROM EXISTING OR PROPOSED STORM DRAINAGE PIPES SHALL BE DIVERTED OR PUMPED OUTSIDE THE CONFINED AREAS. PUMPS/PIPES SHALL BE SIZED BY THE CONTRACTOR TO HANDLE THE EXPECTED FLOWS AND BE DISCHARGED TO A STABLE LOCATION.

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TOWN OF MONROE

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MONROE, CT 06468

REPLACEMENT OF BRIDGE 04929

JUDD ROAD OVER MILL RIVER

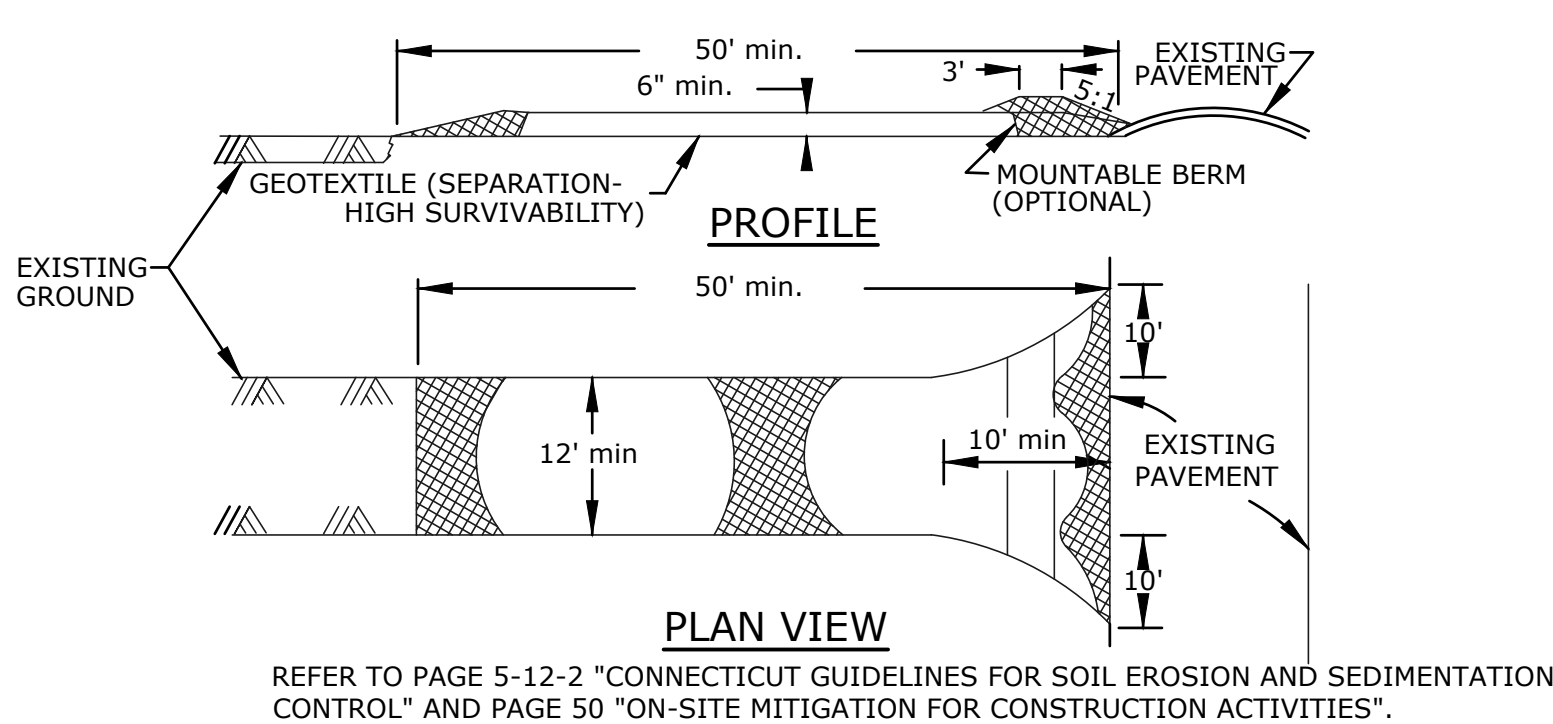
HANDLING WATER PLAN

D – JUDD ROAD – S.F.D. – 22007.10 –

SIZE PROJECT FILE NAME NUMBER REV.

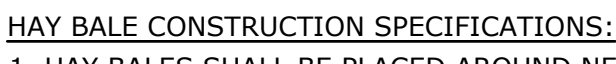
SHEET 11

OF 25



REFER TO PAGE 5-11-35 "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENTATION CONTROL" AND PAGE 55 "ON-SITE MITIGATION FOR CONSTRUCTION ACTIVITIES".

N.T.S.



- HAY BALE CONSTRUCTION SPECIFICATIONS:

1. HAY BALES SHALL BE PLACED AROUND NEARBY DRAINAGE DROPPERS TO PREVENT SEDIMENTATION

1. DROPPED INTO THE SOIL FROM THE EXCAVATION AND OTHER DEBRIS FROM ACCUMULATING ON THE GRATE OR IN THE SUMPS. HAY BALES SHOULD BE KEPT CLEAN AND FREE OF DEBRIS TO FACILITATE FLOW.
2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4", AND PLACED SO THE BINDINGS ARE HORIZONTAL.
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR REBARS DRIVEN THROUGH THE BALE. THE FIRST STAKE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
4. INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

REFER TO PAGE 5-11-30 "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENTATION CONTROL" AND PAGE 53 "ON-SITE MITIGATION FOR CONSTRUCTION ACTIVITIES".

N.T.S.



REFER TO PAGE 5-11-33 "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENTATION CONTROL" AND PAGE 40 "ON-SITE MITIGATION FOR CONSTRUCTION ACTIVITIES".

N.T.S

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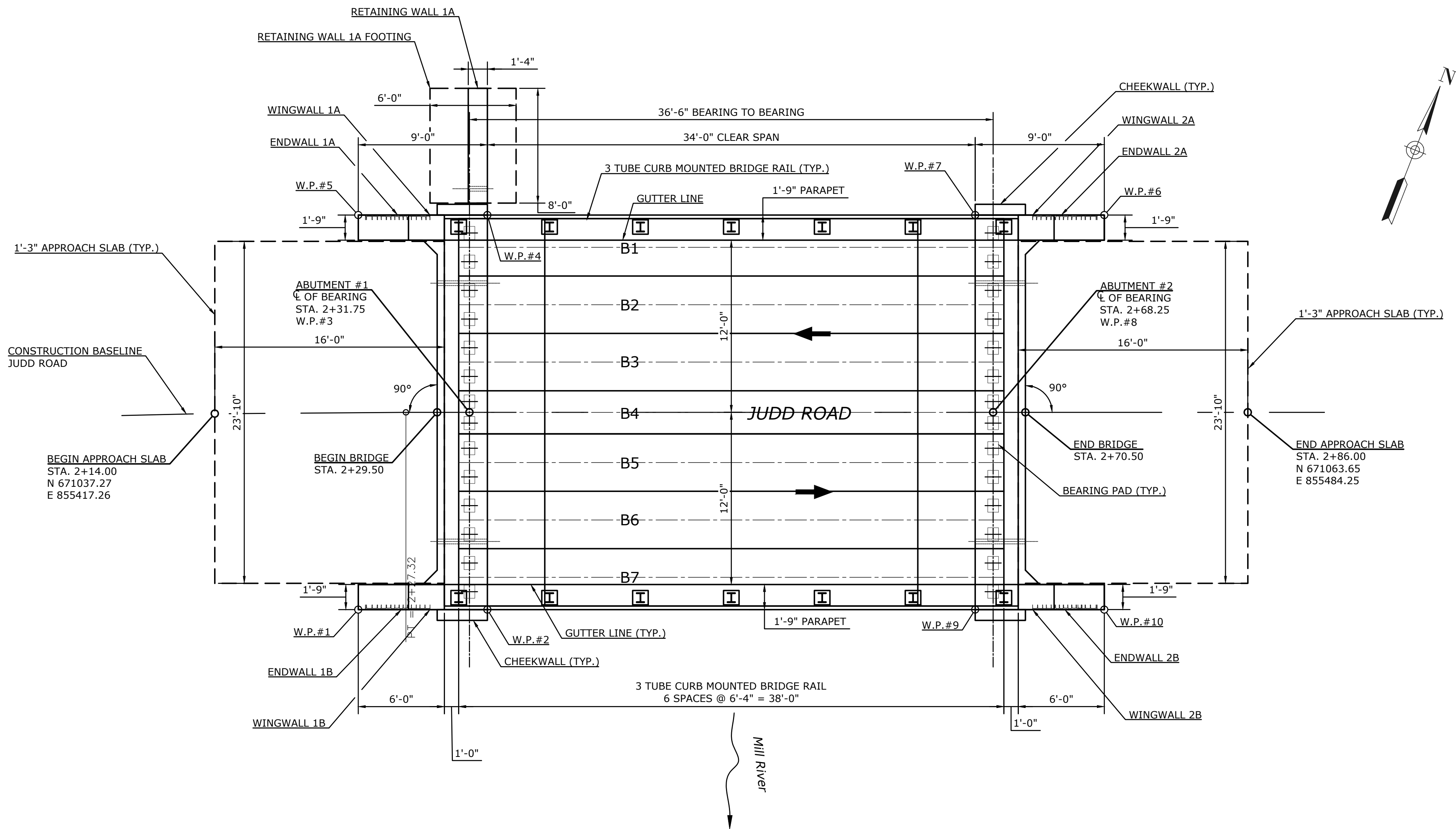
7 FAN HILL ROAD

MONROE, CT 06468

REPLACEMENT OF BRIDGE 04929
JUDD ROAD OVER MILL RIVER
EROSION AND SEDIMENTATION
CONTROL DETAILS

SHEET 12

D – JUDD ROAD – S.F.D. – 22007.10 –
 SIZE PROJECT FILE NAME NUMBER REV. OF 25



STRUCTURE LAYOUT PLAN
SCALE: 1"=5'-0"

WORKING POINTS		
W.P. #	NORTHING	EASTING
1	671028.21	855431.56
2	671031.49	855439.94
3	671043.84	855433.75
4	671057.09	855429.89
5	671053.81	855421.51
6	671072.80	855469.92
7	671069.51	855461.54
8	671057.17	855467.73
9	671043.91	855471.59
10	671047.20	855479.97

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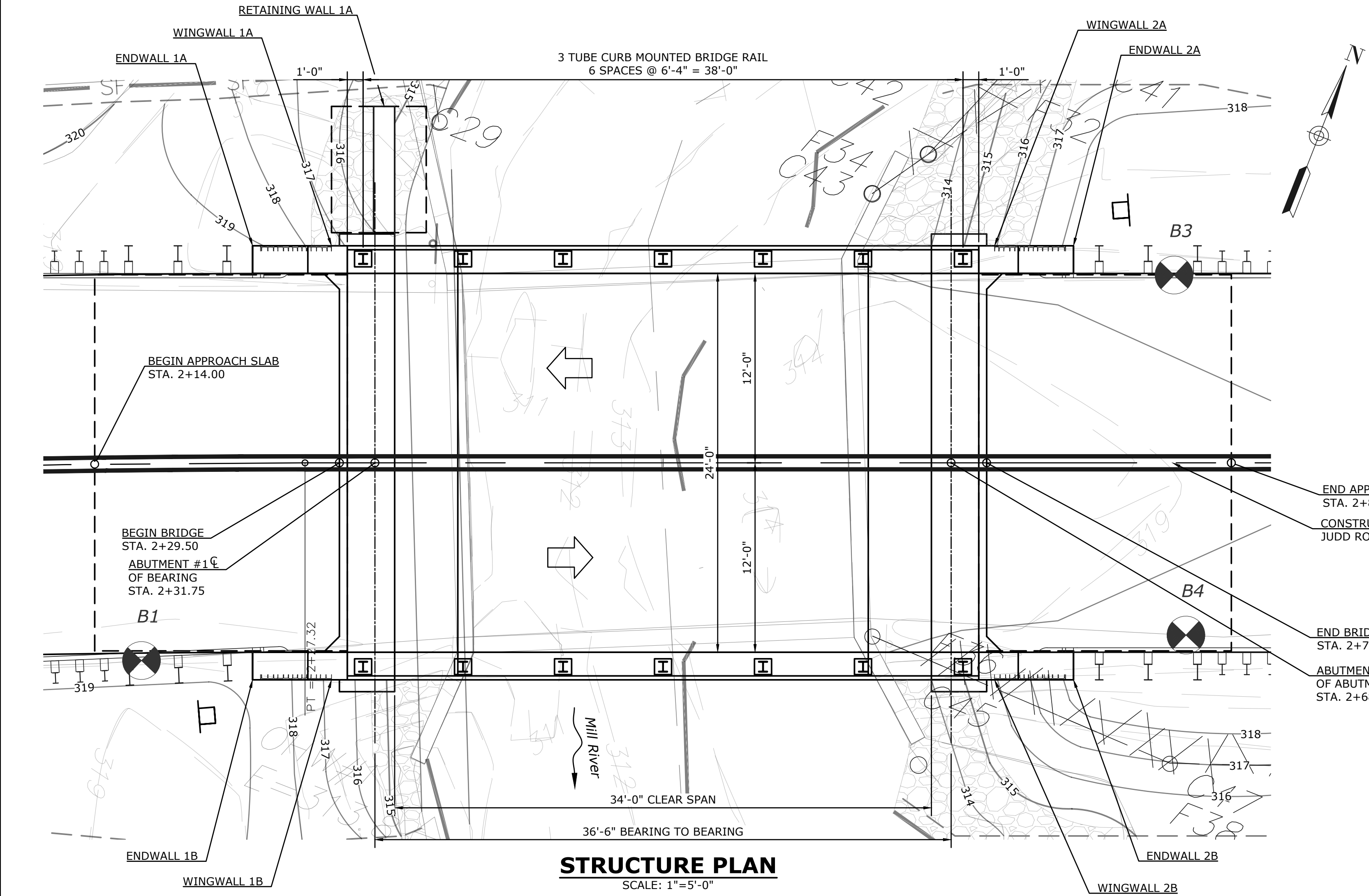


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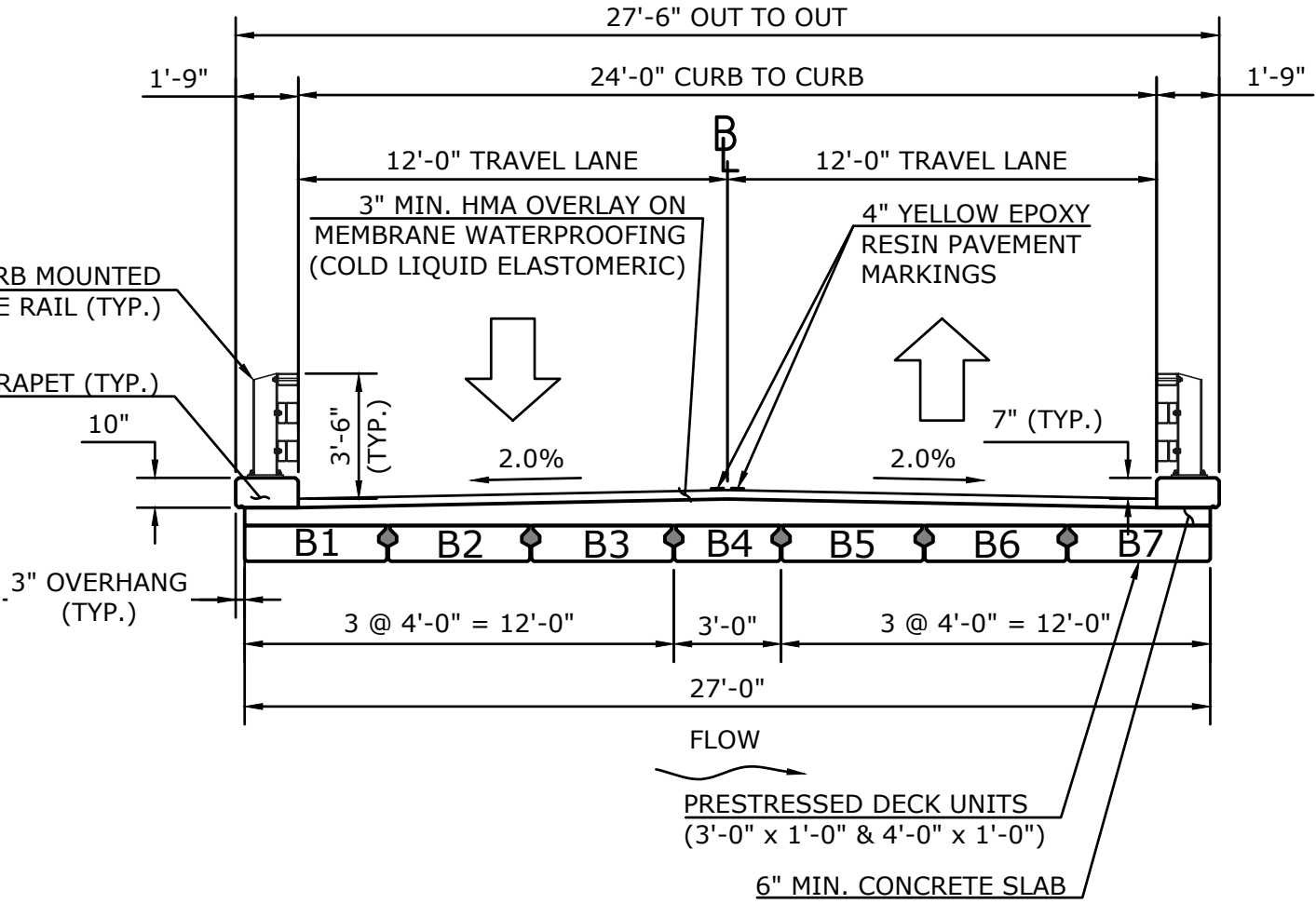
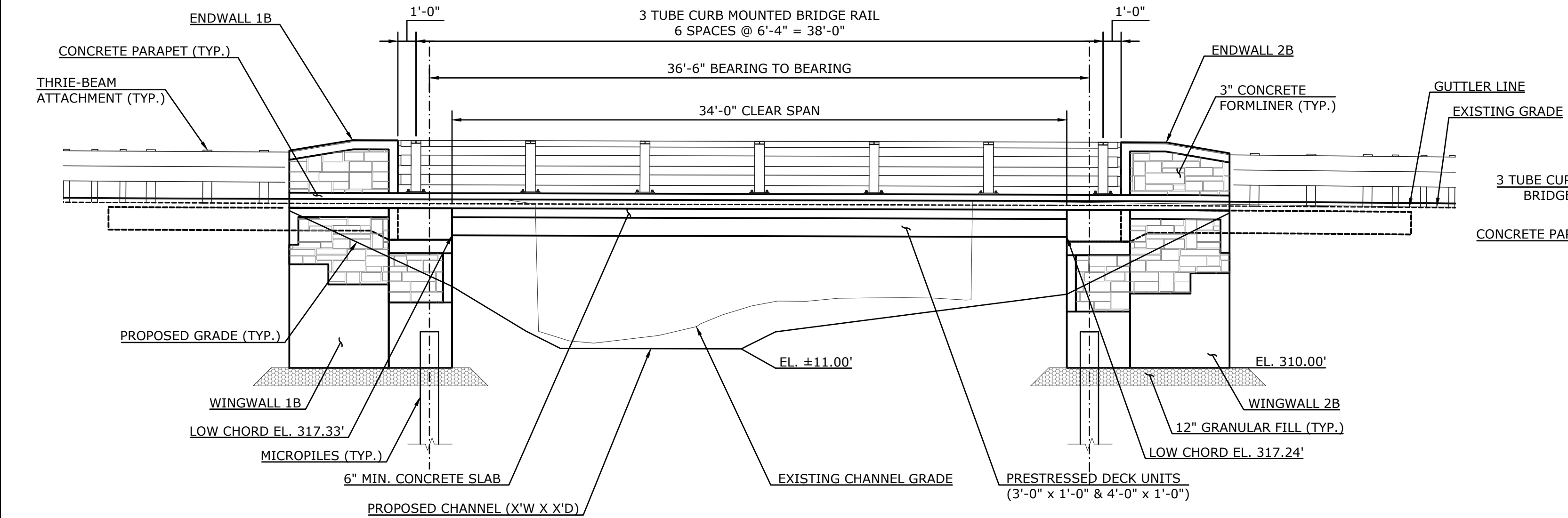
REPLACEMENT OF BRIDGE 04929
JUDD ROAD OVER MILL RIVER
STRUCTURE LAYOUT

D – JUDD ROAD – S.F.D. – 22007.10 –					SHEET	14
SIZE	PROJECT	FILE NAME	NUMBER	REV.	OF	25



NOTICE TO BRIDGE INSPECTORS	
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 SPECIAL ATTENTION SHALL NOT BE CONSTRUED TO REDUCE THE IMPORTANCE OF THE 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 THE ENGINEER OF BRIDGES AND STRUCTURES, OR NOTED BELOW.	
COMPONENT OR DETAIL	BRIDGE SHEET REF.
NONE	NONE

HYDRAULIC DATA	
DRAINAGE AREA	2.83 SQ. MILES
DESIGN FREQUENCY	100 YEAR
DESIGN DISCHARGE	675 C.F.S.
AVERAGE DAILY FLOW ELEVATION DOWNSTREAM	312.52 FT. ESTIMATED
UPSTREAM DESIGN WATER SURFACE ELEVATION	316.15 FT.
DOWNSTREAM DESIGN WATER ELEVATION	315.54 FT.
MAXIMUM SCOUR ELEVATION	305.38 FT.
FREQUENCY	500-YEAR
DISCHARGE	950 C.F.S.
WORST CASE SCOUR SUB-STRUCTURE UNIT	ABUTMENT #2



GENERAL NOTES:

SPECIFICATIONS: CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 818 (2020) SUPPLEMENTAL SPECIFICATIONS DATED JULY 2023 OR LATEST AT THE TIME OF BID AND SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS (AASHTO EIGHTH EDITION, DATED 2017 INCLUDING INTERIM SPECIFICATIONS UP TO 2018), AS SUPPLEMENTED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE DESIGN MANUAL (2003), UP TO AND INCLUDING 2019.

MATERIAL STRENGTHS:

CONCRETE:

CLASS PCC 03340 $f_c = 3000$ P.S.I.

CLASS PCC 04460 $f_c = 4000$ P.S.I.

CLASS PCC 04462 $f_c = 4000$ P.S.I.

CLASS PCC 06662 $f_c = 6000$ P.S.I.

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

REINFORCEMENT:

ASTM A615 GRADE 60, $f_y=60,000$ PSI

LIVE LOAD: HL-93, LEGAL AND PERMIT VEHICLES

BITUMINOUS CONCRETE OVERLAY: SHALL CONSIST OF 2" (MIN.) HMA S0.5 ON 1" OF HMA S0.25 ON MEMBRANE WATERPROOFING (COLD LIQUID ELASTOMERIC).

FOUNDATION PRESSURES AND PILE LOADS: THE VARIOUS GROUP LOADINGS NOTED ON THE SUBSTRUCTURE PLAN SHEETS REFER TO THE GROUP LOADS AS GIVEN IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

FUTURE PAVING ALLOWANCE: NONE

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

EXISTING DIMENSIONS: DIMENSIONS OF THE EXISTING STRUCTURE SHOWN ON THESE PLANS ARE FOR GENERAL REFERENCE ONLY. THEY HAVE BEEN TAKEN FROM THE ORIGINAL DESIGN DRAWINGS AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL TAKE ALL FIELD MEASUREMENTS NECESSARY TO ASSURE PROPER FIT OF THE FINISHED WORK AND SHALL ASSUME FULL RESPONSIBILITY FOR THEIR ACCURACY. WHEN SHOP DRAWINGS BASED ON FIELD MEASUREMENTS ARE SUBMITTED FOR REVIEW, THE FIELD MEASUREMENTS SHALL ALSO BE SUBMITTED FOR REFERENCE BY THE REVIEWER.

SUPERSTRUCTURE REMOVAL: BEFORE INITIATING CONSTRUCTION, CONTRACTOR SHALL SUBMIT A PLAN FOR APPROVAL DEFINING METHOD FOR PROTECTION OF THE STREAM AREA DURING REMOVAL OF EXISTING BRIDGE. COST TO BE INCLUDED IN THE COST OF "REMOVAL OF SUPERSTRUCTURE".

HANDLING WATER: BEFORE INITIATING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A PLAN FOR APPROVAL THAT DEFINES METHODS AND MATERIALS FOR CONTROLLING STREAM WATER (COFFERDAMS, ETC.), DEWATERING, STRUCTURE EXCAVATION AND PROTECTING THE STREAM DURING VARIOUS STAGES OF CONSTRUCTION. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF "HANDLING WATER".

UNCONFINED IN-STREAM ACTIVITY: ACTIVITIES MUST BE LIMITED TO THE TIME PERIOD BETWEEN JUNE 1 THROUGH SEPTEMBER 30.

BRIDGE IDENTIFICATION PLACARDS: THE CONTRACTOR SHALL PROVIDE AND INSTALL NEW BRIDGE IDENTIFICATION SIGNS AT EACH LEADING AND OF THE BRIDGE ON THE TRAFFIC SIDE. THE SIGNS SHALL BE FABRICATED WITH 40 GAUGE ALUMINUM SHEET METAL. THE SIGNS SHALL BE 4" X 12" WITH 3" WHITE REFLECTIVE BLOCK LETTERS ON GREEN REFLECTIVE SHEETING. EACH SIGN SHALL READ "04929". ALL COST ASSOCIATED WITH PROVIDING AND INSTALLING THE BRIDGE SIGNS SHALL BE COVERED UNDER ITEM "SIGN FACE - SHEET ALUMINUM (TYPE IX RETROREFLECTIVE SHEETING)". THE FINAL LOCATION AND ATTACHMENT METHOD FOR THE SIGNS SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.

MASH TEST LEVEL: THE 3 TUBE CURB MOUNTED BRIDGE RAIL MEETS THE TL-4 CRITERIA FOR MASH 2016.

CONCRETE NOTES:

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

ITEM	BRIDGE COMPONENTS	PCC CLASS
FOOTING CONCRETE	WINGWALL FOOTING	PCC03340
ABUTMENT AND WALL CONCRETE	WINGWALL STEMS, ABUTMENT STEMS	PCC03340
APPROACH SLAB CONCRETE	APPROACH SLABS	PCC04460
PARAPET CONCRETE	BRIDGE AND ENDWALL PARAPETS	PCC04462
BRIDGE DECK CONCRETE	BRIDGE DECK CONCRETE SLAB, CHEEKWALL, END DIAPHRAGM	PCC04462

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

EXPOSED EDGES: EXPOSED EDGES OF CONCRETE SHALL BE BEVELED 1"X1" UNLESS DIMENSIONED OTHERWISE

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

REINFORCEMENT: ALL REINFORCEMENT SHALL 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 REINFORCEMENT SHALL BE INCLUDED IN THE ITEM " DEFORMED STEEL BARS-GALVANIZED."

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

TRANSPORTATION DIMENSIONS AND WEIGHT				
MEMBER	SHIPPING LENGTH	SHIPPING HEIGHT	SHIPPING WIDTH	SHIPPING WEIGHT
B1, B7	38'-0"	2'-2"	4'-10"	22,189 LBS
B2, B3, B5 & B6	38'-0"	1'-3"	4'-0"	21,599 LBS
B4	38'-0"	1'-3"	3'-0"	15,899 LBS

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(860) 667-9624

PREPARED FOR

TOWN OF MONROE
7 FAN HILL ROAD
MONROE, CT 06468

REPLACEMENT OF BRIDGE 04929
JUDD ROAD OVER MILL RIVER
STRUCTURE SECTION AND ELEVATION

D	JUDD ROAD	S.F.D.	22007.10		SHEET	13
SIZE	PROJECT	FILE NAME	NUMBER	REV.	OF	25

B-1
 STATION= 2+16.83
 OFFSET= 12.47R
 NORTHING=671026.77
 EASTING=855424.56
 ELEV.=318.93

B-3
 STATION= 2+82.37
 OFFSET= 11.90L
 NORTHING=671073.40
 EASTING=855476.53
 ELEV.=318.86

B-4 (1)
 STATION= 2+83.12
 OFFSET= 10.92R
 NORTHING=671052.44
 EASTING=855485.56
 ELEV.=318.46

B-4 (2)
 STATION= 2+83.12
 OFFSET= 10.92R
 NORTHING=671052.44
 EASTING=855485.56
 ELEV.=318.46

			SUPV.	K.O.E.
			DESIGN	K.K.
			DRAWN	P.W.S.
			CHECKED	E.O.D.
NO.	DATE	DESCRIPTION	DATE	XX/XX/20XX
REVISIONS				

S.F.D.
SUBMITTAL

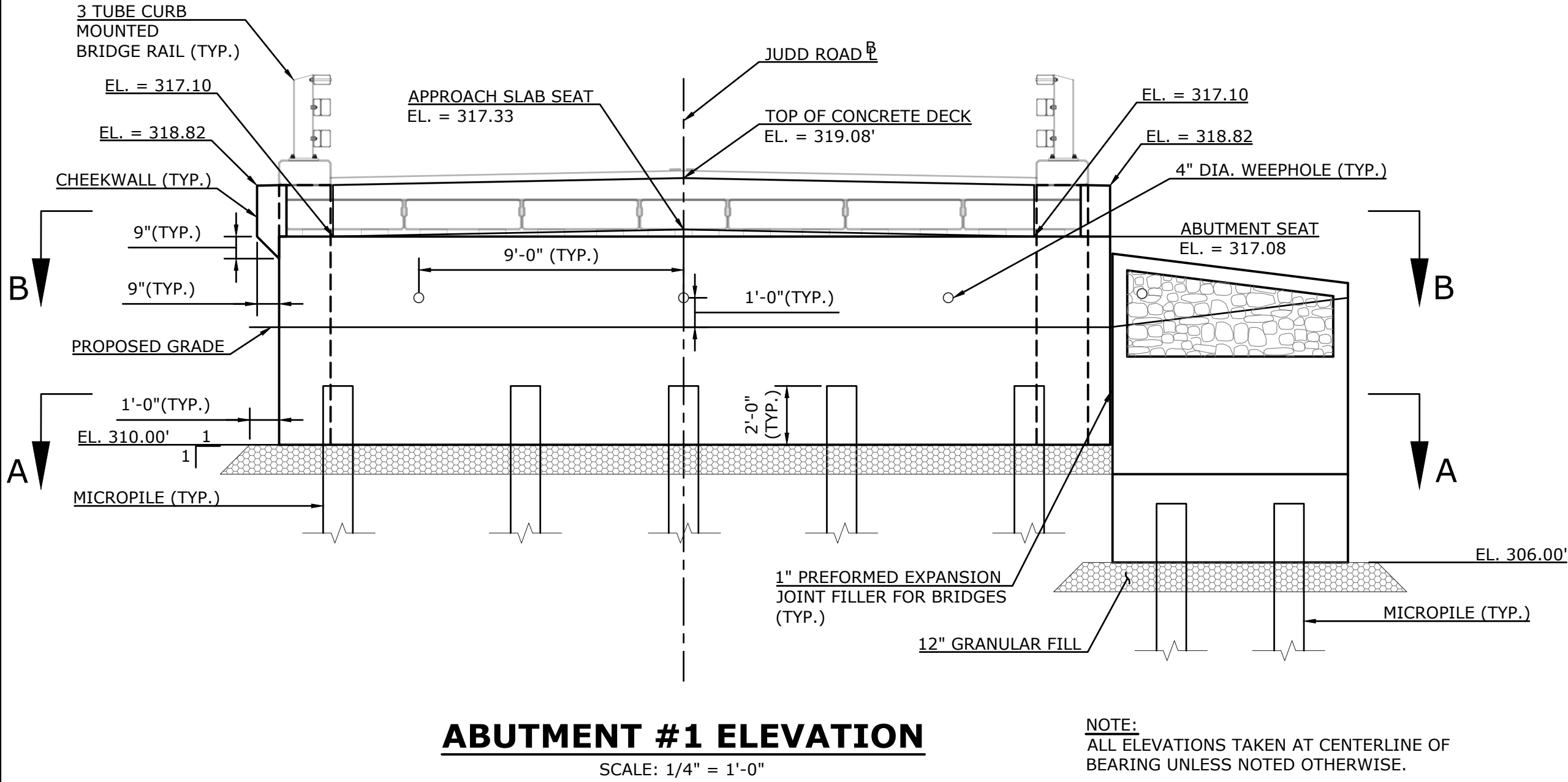
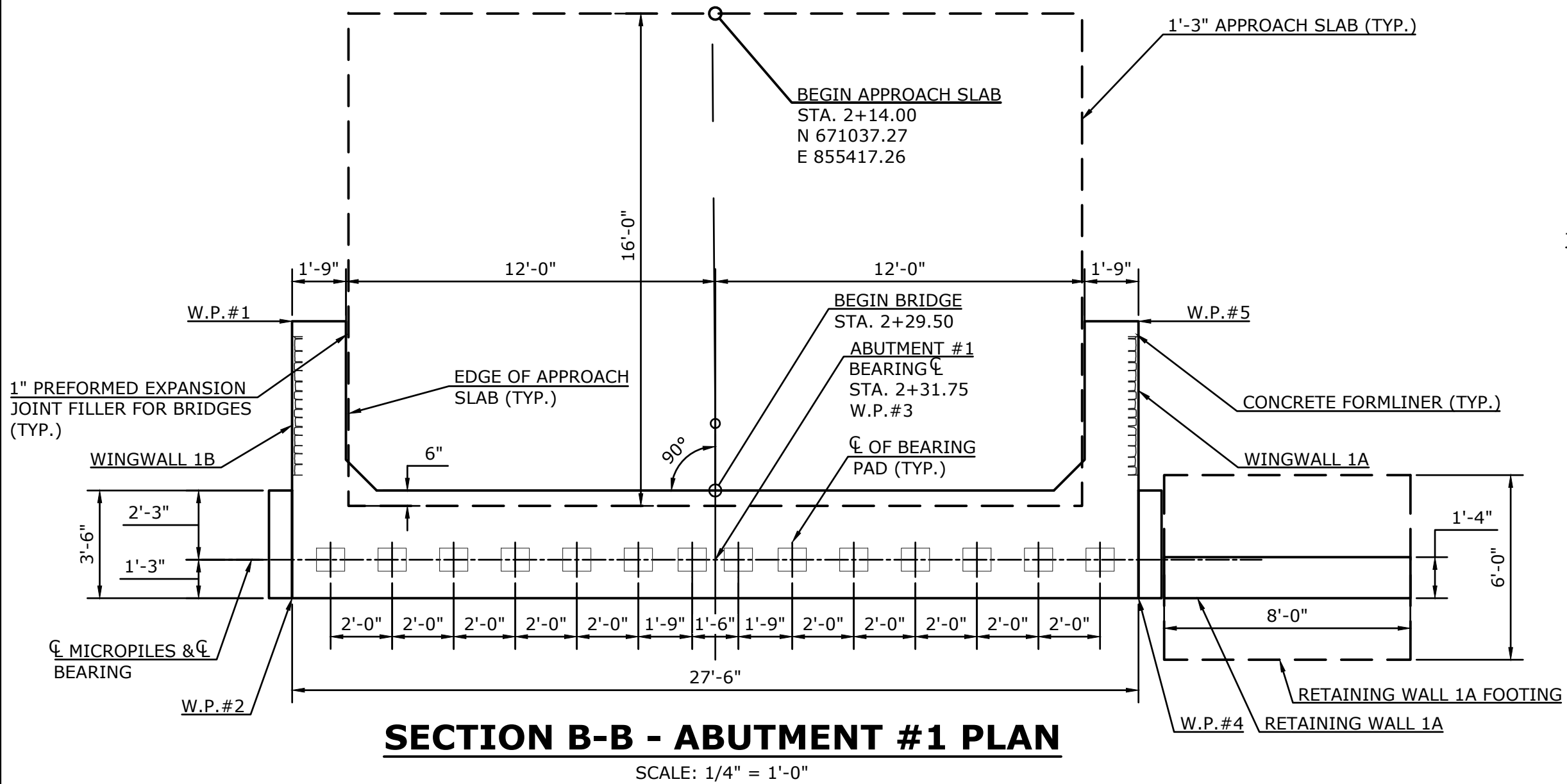
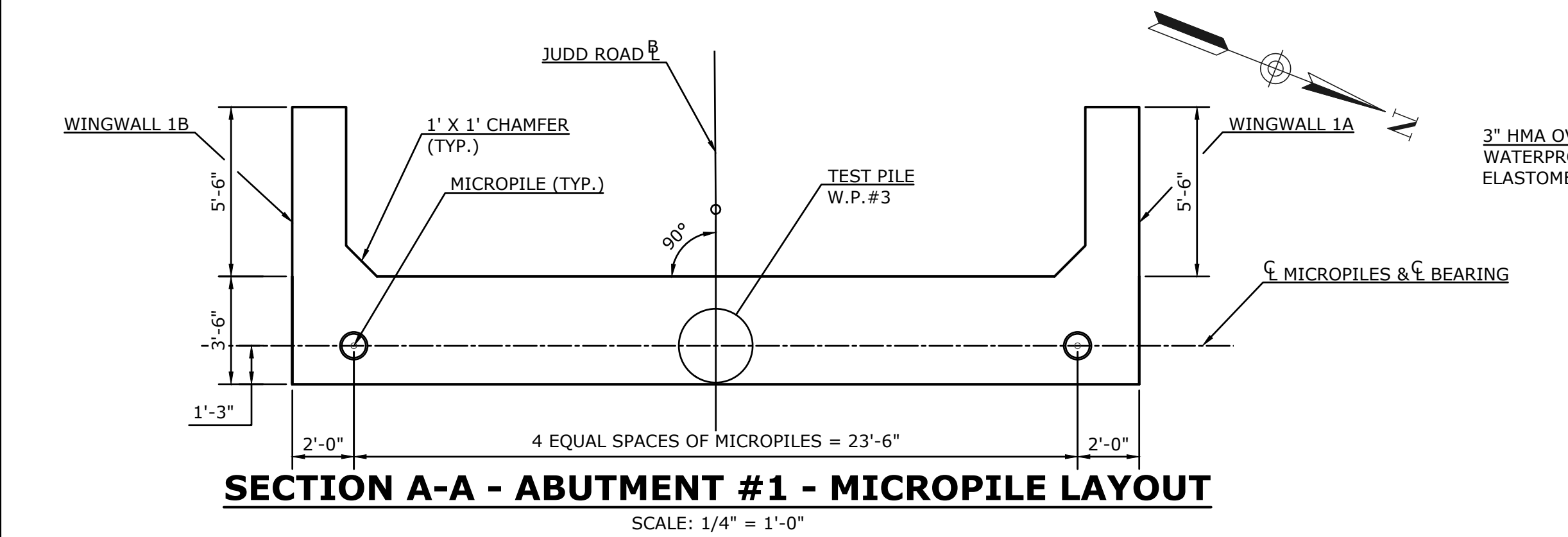
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PREPARED FOR
TOWN OF MONROE
7 FAN HILL ROAD
MONROE, CT 06468

REPLACEMENT OF BRIDGE 04929 JUDD ROAD OVER MILL RIVER BORING LOGS

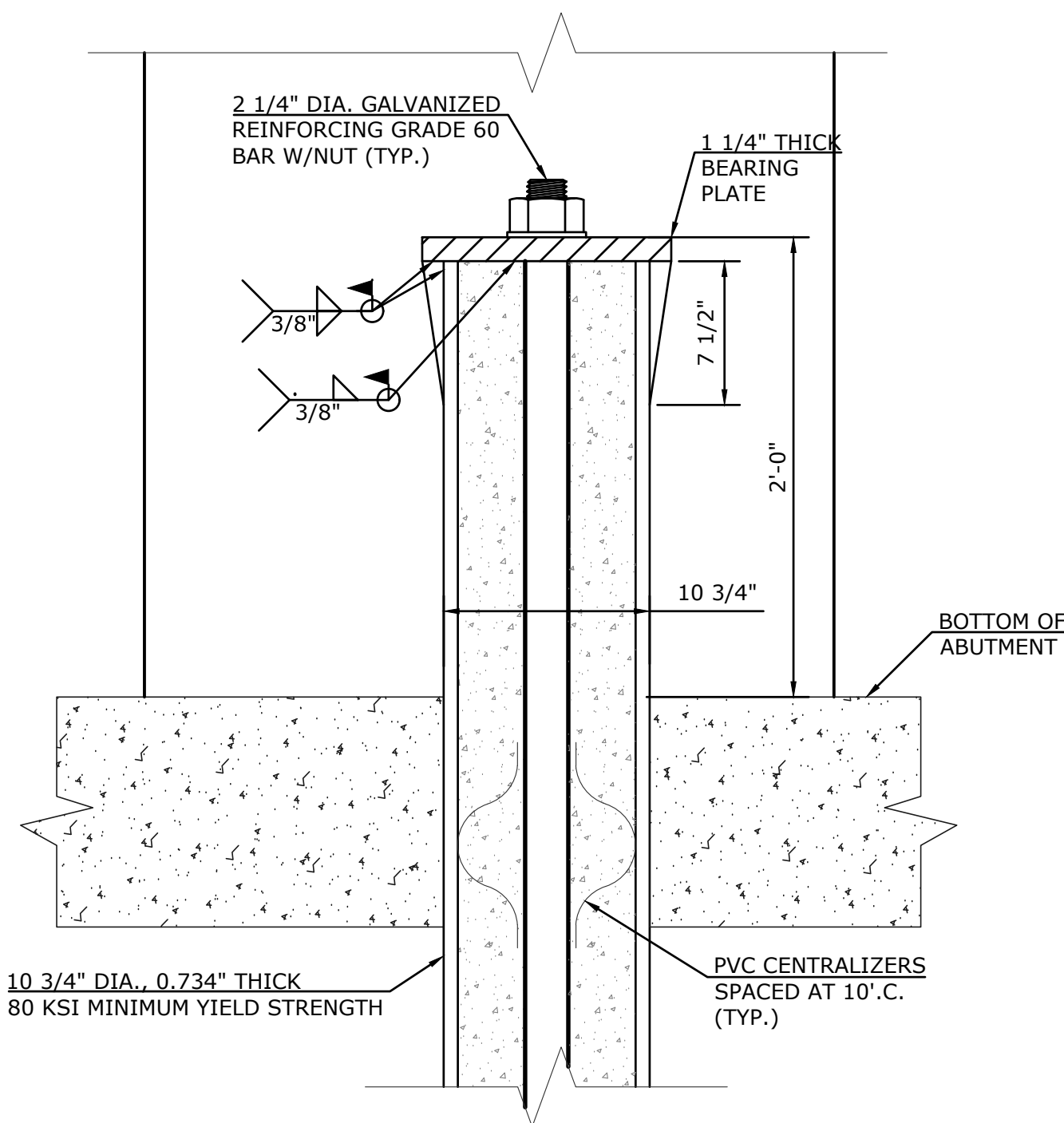
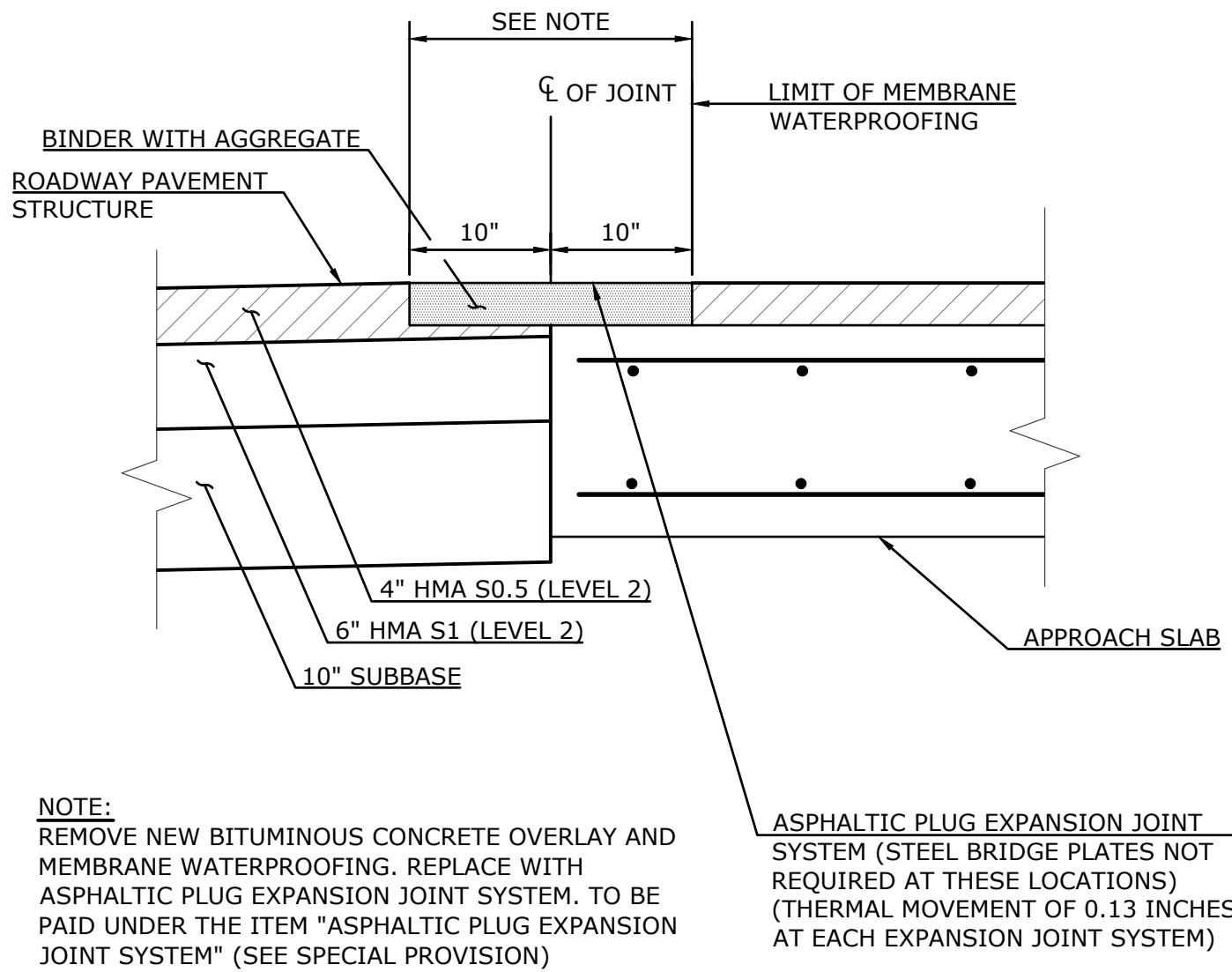
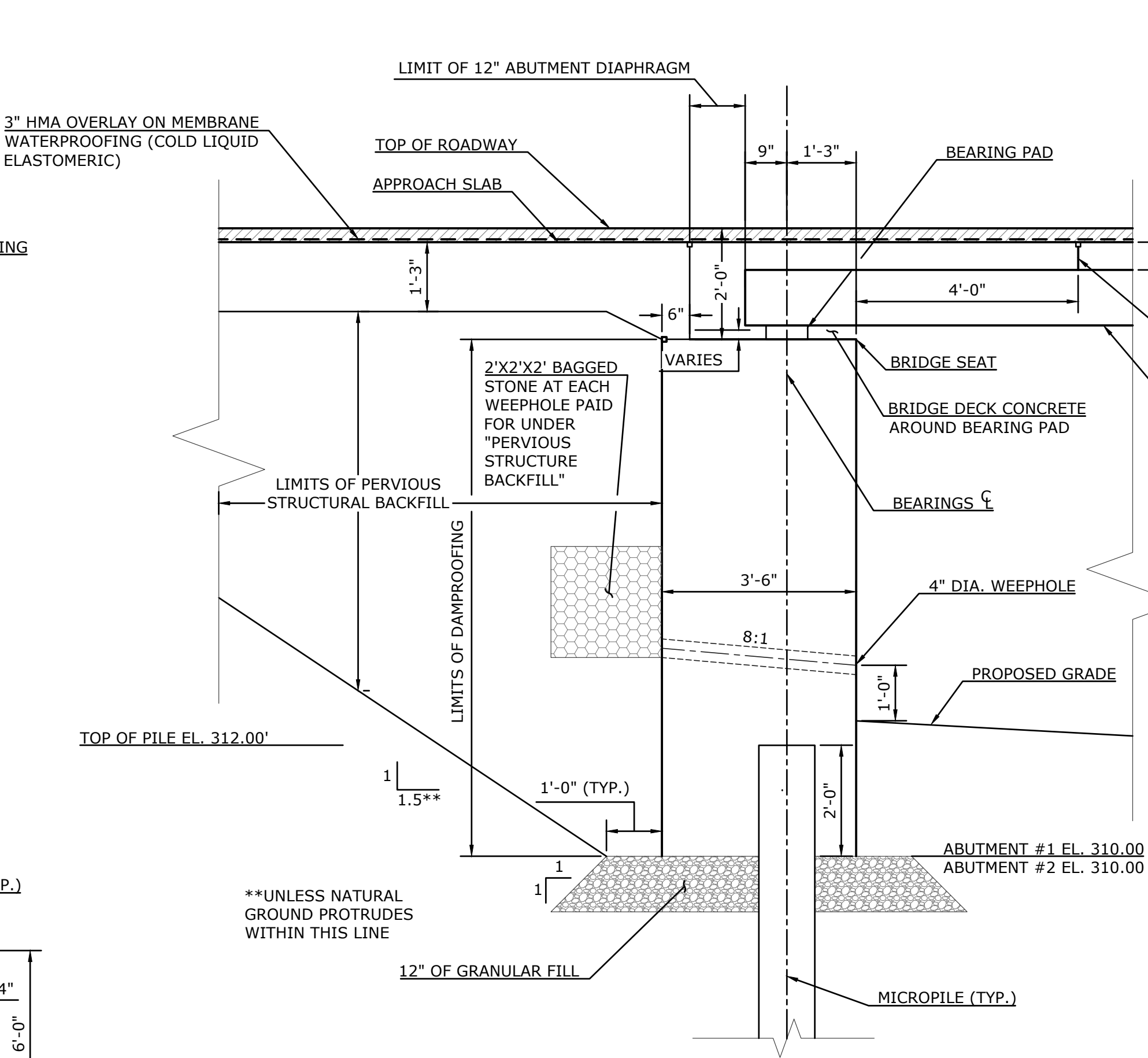
D -	JUDD ROAD	-	S.F.D.	-	22007.10	-	SHEET	15
SIZE	PROJECT		FILE NAME		NUMBER	REV.	OF	25



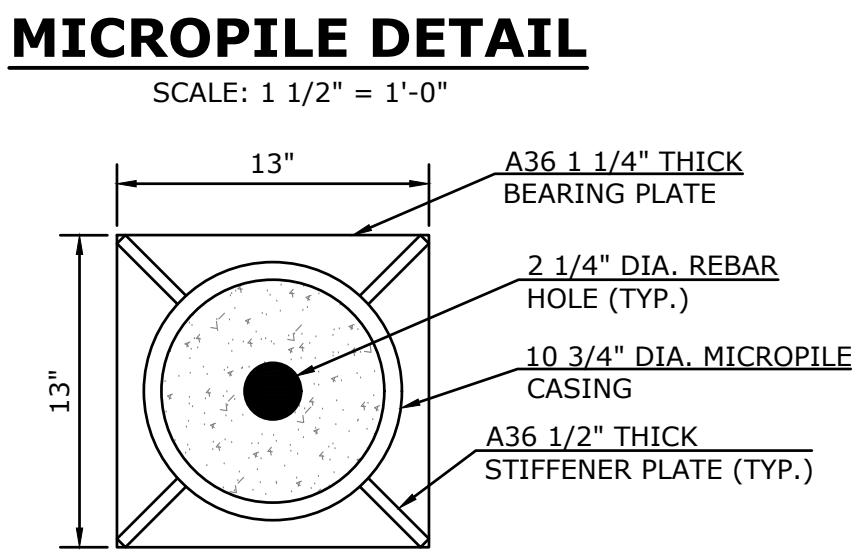
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE TOWN AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

			SUPV.	K.O.E.
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NO.	DATE	DESCRIPTION	DATE	XX/XX/20XX
REVISIONS				

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WORKING POINTS		
W.P. #	NORTHING	EASTING
1	671028.21	855431.56
2	671031.49	855439.94
3	671043.84	855433.75
4	671057.09	855429.89
5	671053.81	855421.51



REQUIRED PILE LOCATION TOLERANCES:

- CONFORMANCE TO THE FOLLOWING TOLERANCES IS OF EXTREME IMPORTANCE TO FOUNDATION OF THIS TYPE.
- PRIOR TO PLACEMENT, EACH ABUTMENT PILE SHALL BE HELD BY TEMPLATE TO WITHIN 1" OF PLAN LOCATION.
- AFTER EACH ABUTMENT PILE IS PLACED, THE TOP OF THE PILE SHALL BE WITHIN 3" OF PLAN LOCATION.

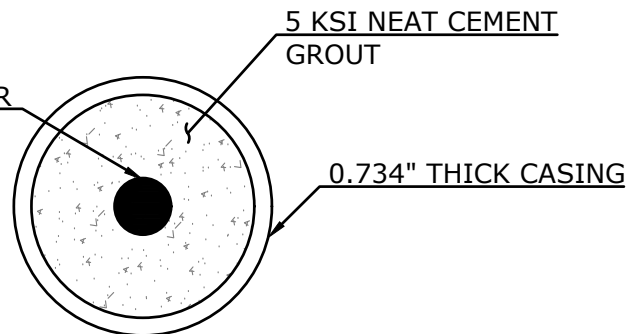
NOTES:

- THE PRELIMINARY MINIMUM SIZE IS 10 3/4" DIA. MICROPILES WITH 0.734" THICK WALLS AND 80 KSI MINIMUM YIELD STRENGTH. INTERNAL REBAR SHALL BE 2 1/4" DIA. GALVANIZED, GRADE 60.
- MAXIMUM STRENGTH LIMIT PILE LOAD = 95 TONS
MAXIMUM SERVICE LIMIT PILE LOAD = 71.6 TONS
ULTIMATE PILE CAPACITY = 172.7 TONS
- ESTIMATED LENGTH OF PILES:
ABUTMENT 1 (BASED ON BORING B-2B) = 22.3'
ABUTMENT 2 (BASED ON BORING B-3) = 36.3'
- ESTIMATED CASING LENGTH:
ABUTMENT 1 (BASED ON BORING B-2B) = 17.3'
ABUTMENT 2 (BASED ON BORING B-3) = 31.3'

LOCATION	TOP OF PILE ELEVATION	ESTIMATED BOTTOM OF PILE TIP ELEVATION
ABUTMENT 1	XXX.XX'	XXX'
ABUTMENT 2	XXX.XX'	XXX'

MICROPILE BEARING PLATE DETAIL

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



NOTES:

- NEAT CEMENT GROUT SHALL HAVE AN ANTI-WASHOUT ADDITIVE FOR GROUTING BELOW THE WATER TABLE.
- GROUTING PRESSURE SHALL BE AS DETERMINED BY THE MICROPILE CONTRACTOR.
- IF SPLICE IS NEEDED FOR THE CENTRAL BAR, THE COUPLERS SHALL BE RATED AT 125% OF THE YIELD STRENGTH OF THE BAR.
- UPPER AND LOWER MOST CENTRALIZER SHALL BE LOCATED A MAXIMUM OF 3 FEET FROM THE TOP AND BOTTOM OF THE MICROPILE.
- THE MICROPILE DETAILS ARE A PRELIMINARY MINIMUM RECOMMENDATION. FINAL DESIGN SHALL BE PROVIDED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
- IT IS NOTED THAT COBBLES AND BOULDERS WERE ENCOUNTERED IN THE EXISTING FILL MATERIAL AND SOME DIFFICULTIES MAY BE EXPECTED DURING THE DRILLING OPERATIONS AT ISOLATED LOCATIONS.
- THE MICROPILE CASING SHALL BE FROM DOMESTIC ORIGIN.
- THE 2 1/4" DIA. REINFORCING BAR IS PAID UNDER ITEM "MICROPILES".



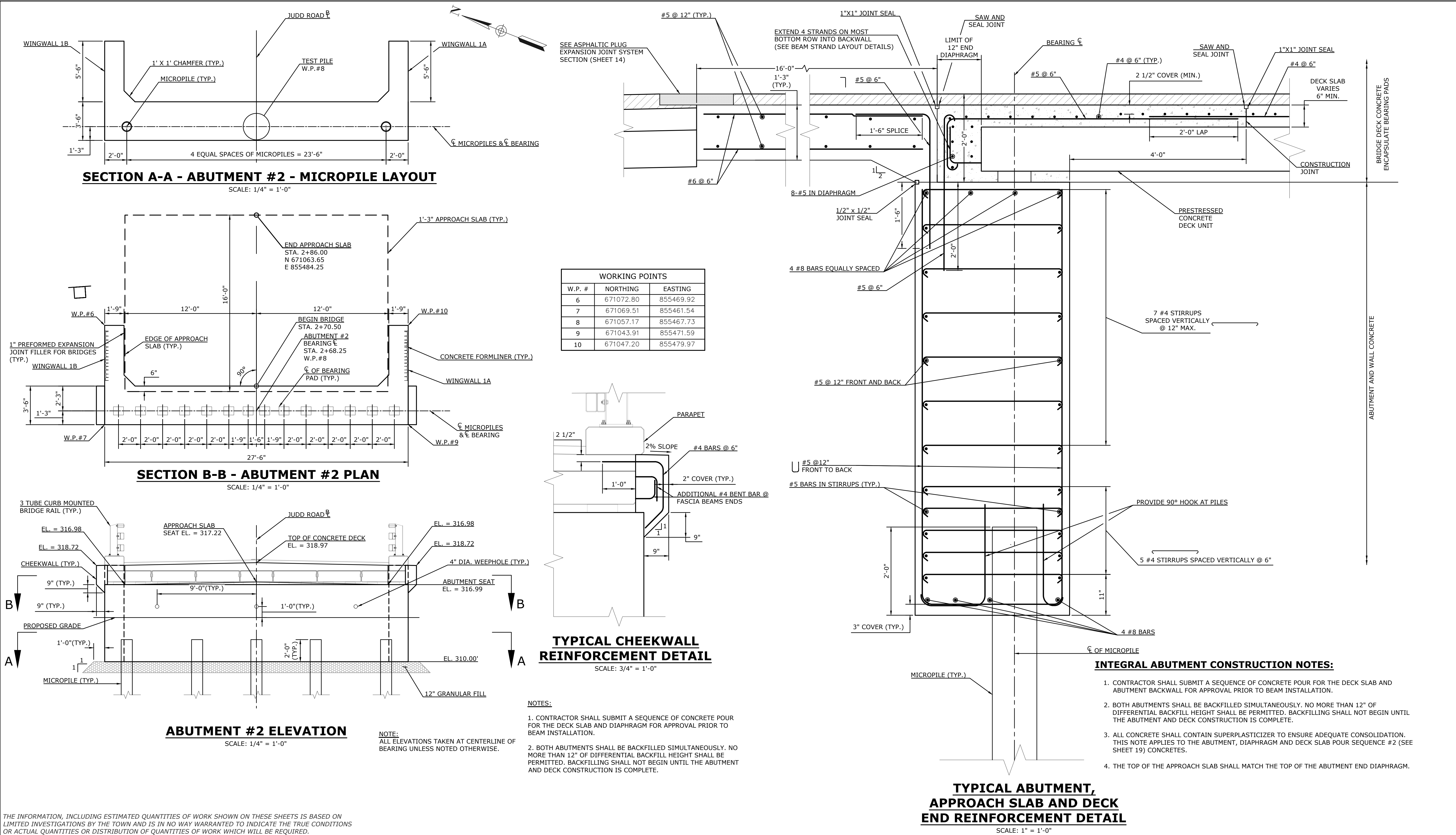
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87 HOLMES ROAD
NEWINGTON, CT 06111
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PREPARED FOR

TOWN OF MONROE
7 FAN HILL ROAD
MONROE, CT 06468

REPLACEMENT OF BRIDGE 04929
JUDD ROAD OVER MILL RIVER
ABUTMENT NO. 1 PLAN AND ELEVATION

D -	JUDD ROAD	S.F.D.	22007.10		SHEET	16
SIZE	PROJECT	FILE NAME	NUMBER	REV.	OF	25



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			DRAWN	P.W.S.
			CHECKED	E.O.D.
NO.	DATE	DESCRIPTION	DATE	XX/XX/20XX
REVISIONS				

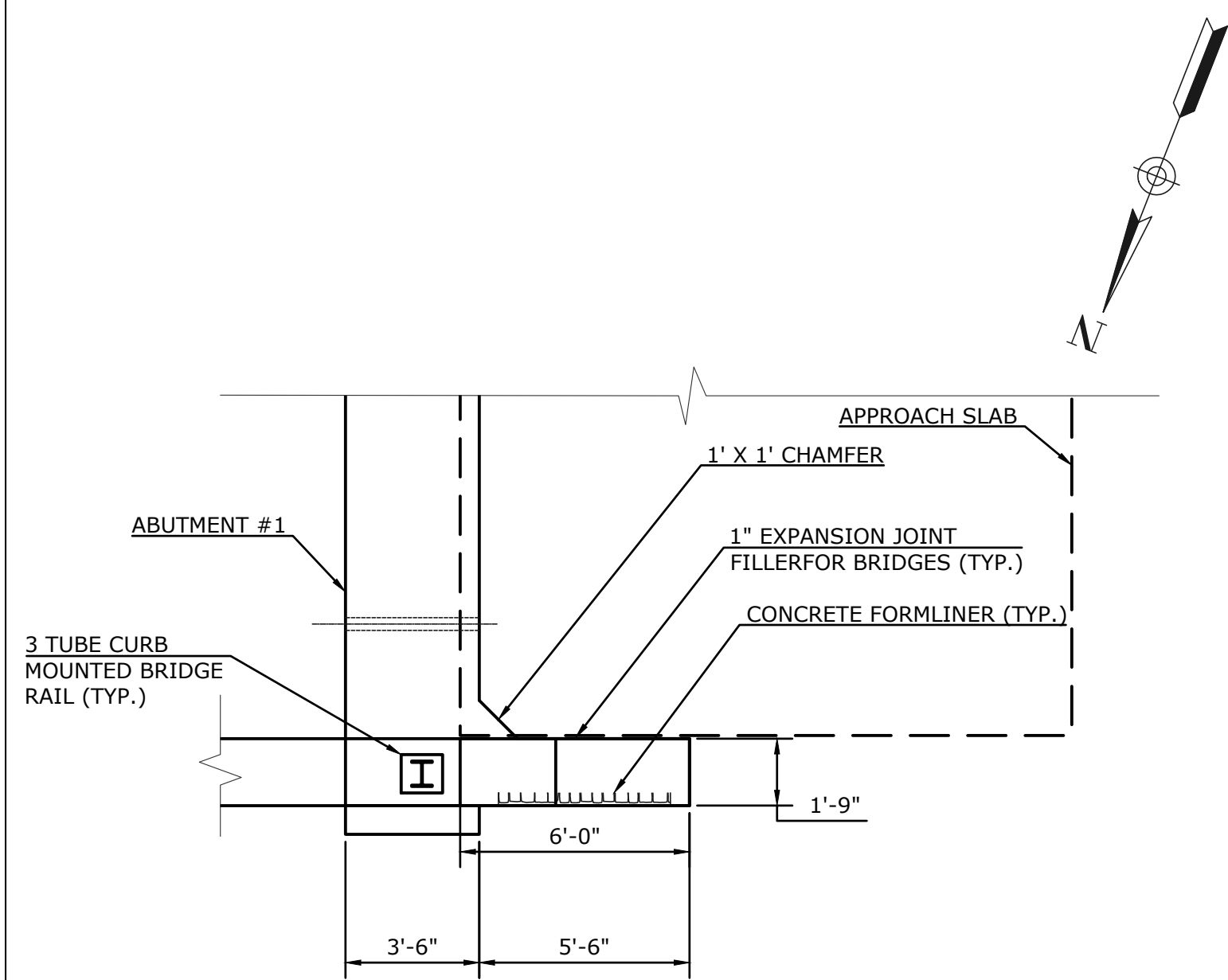
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PREPARED FOR
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7 FAN HILL ROAD
MONROE, CT 06468

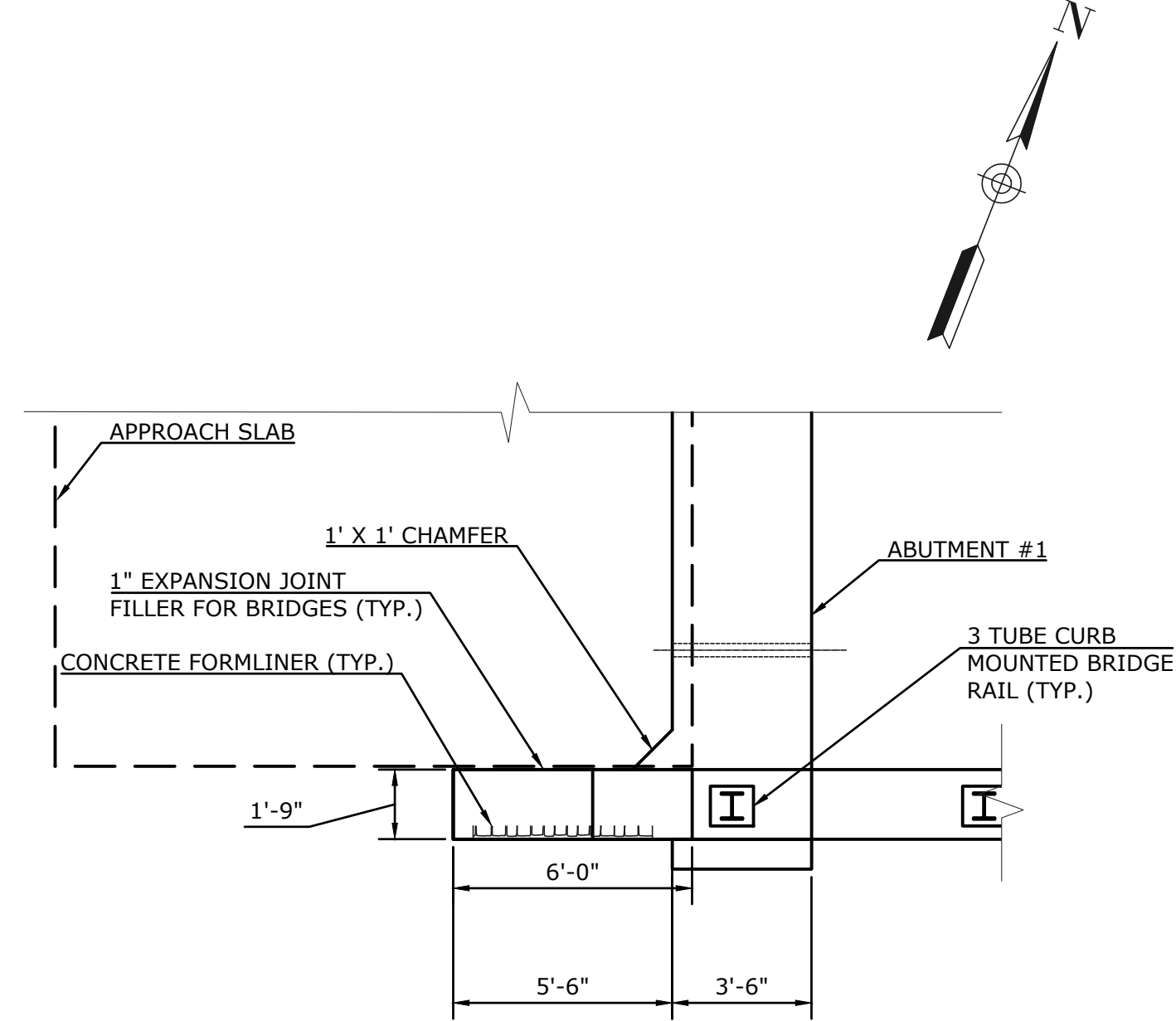
REPLACEMENT OF BRIDGE 04929
JUDD ROAD OVER MILL RIVER
ABUTMENT NO. 2 PLAN AND ELEVATION

D -	JUDD ROAD	-	S.F.D.	-	22007.10	-	SHEET	17
SIZE	PROJECT		FILE NAME		NUMBER		REV.	OF
								25



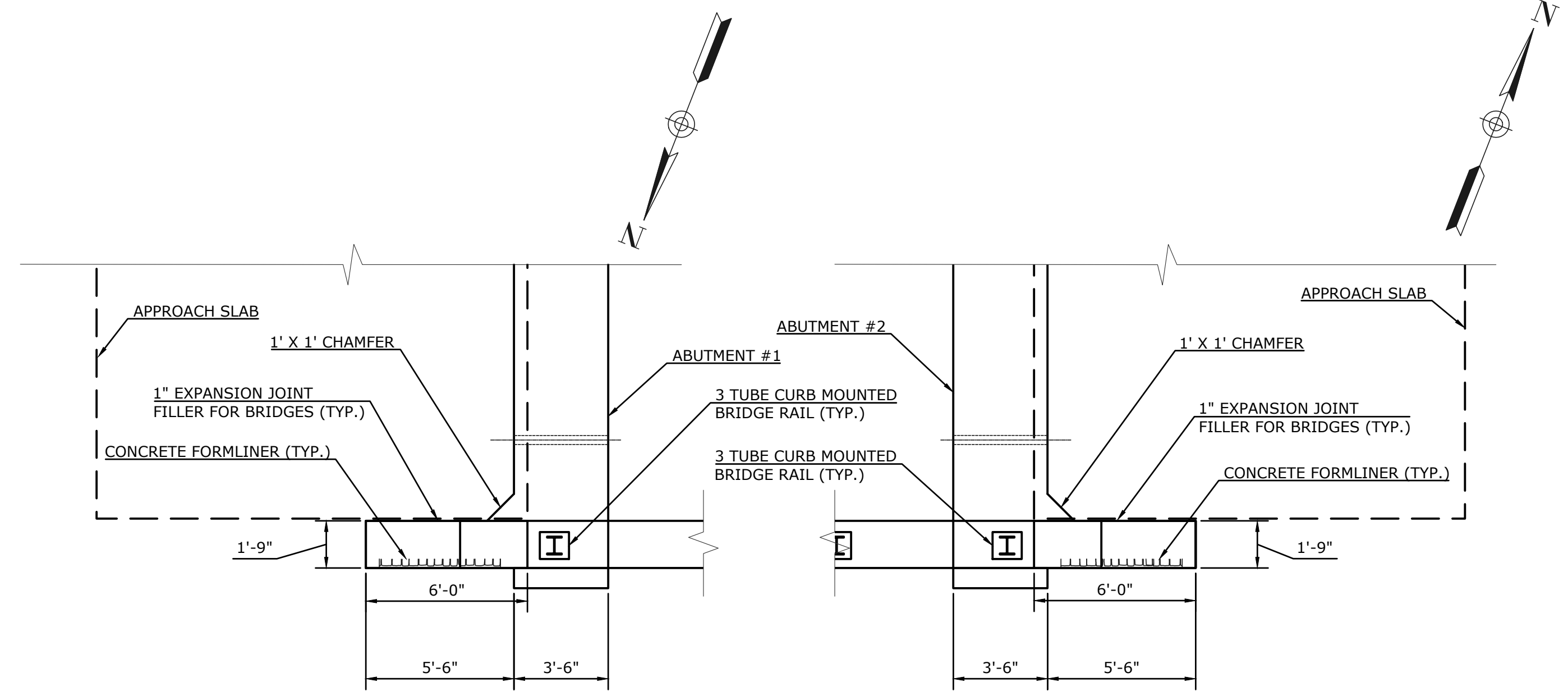
WINGWALL 1A PLAN

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



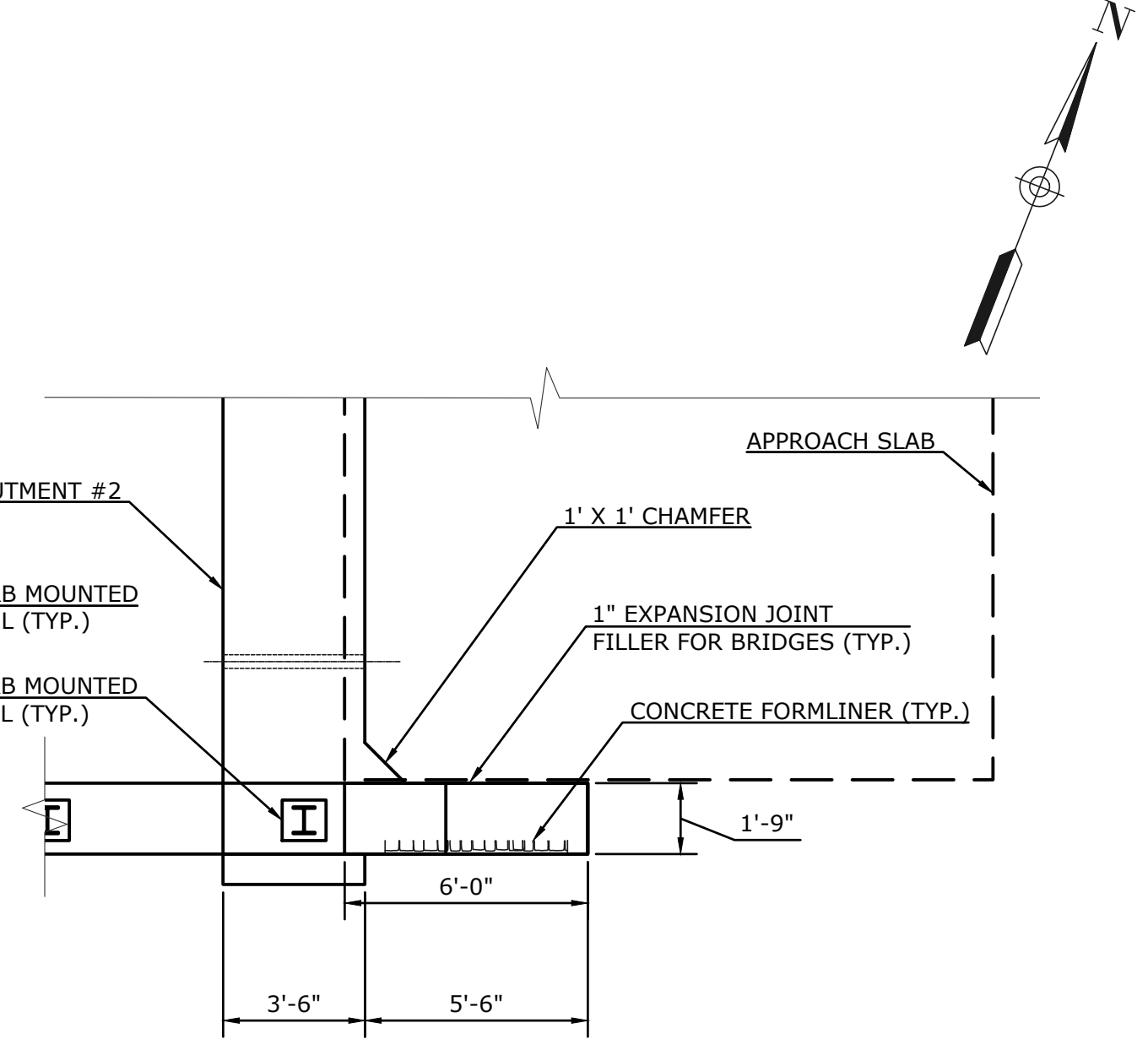
WINGWALL 1B PLAN

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



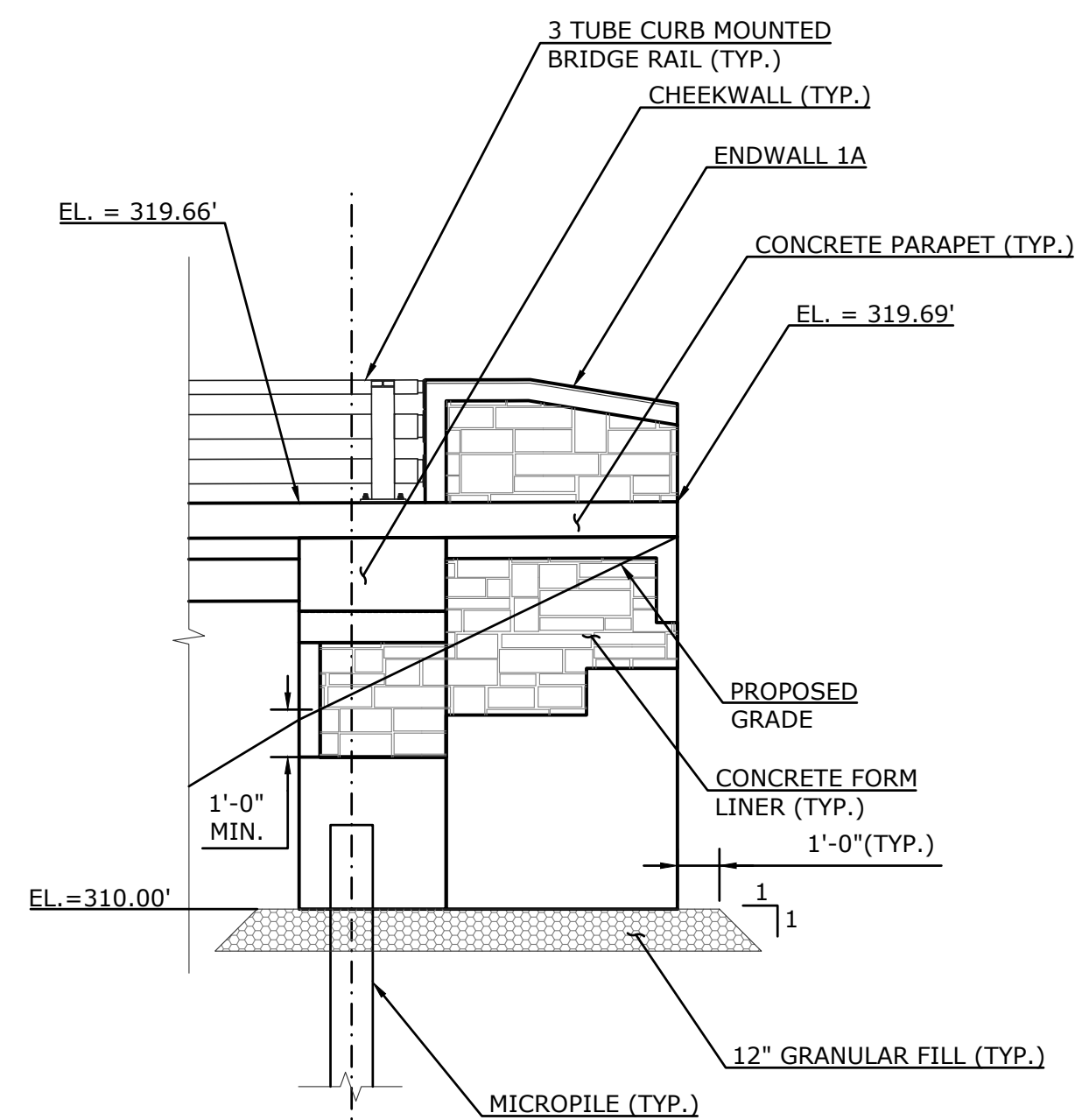
WINGWALL 2A PLAN

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



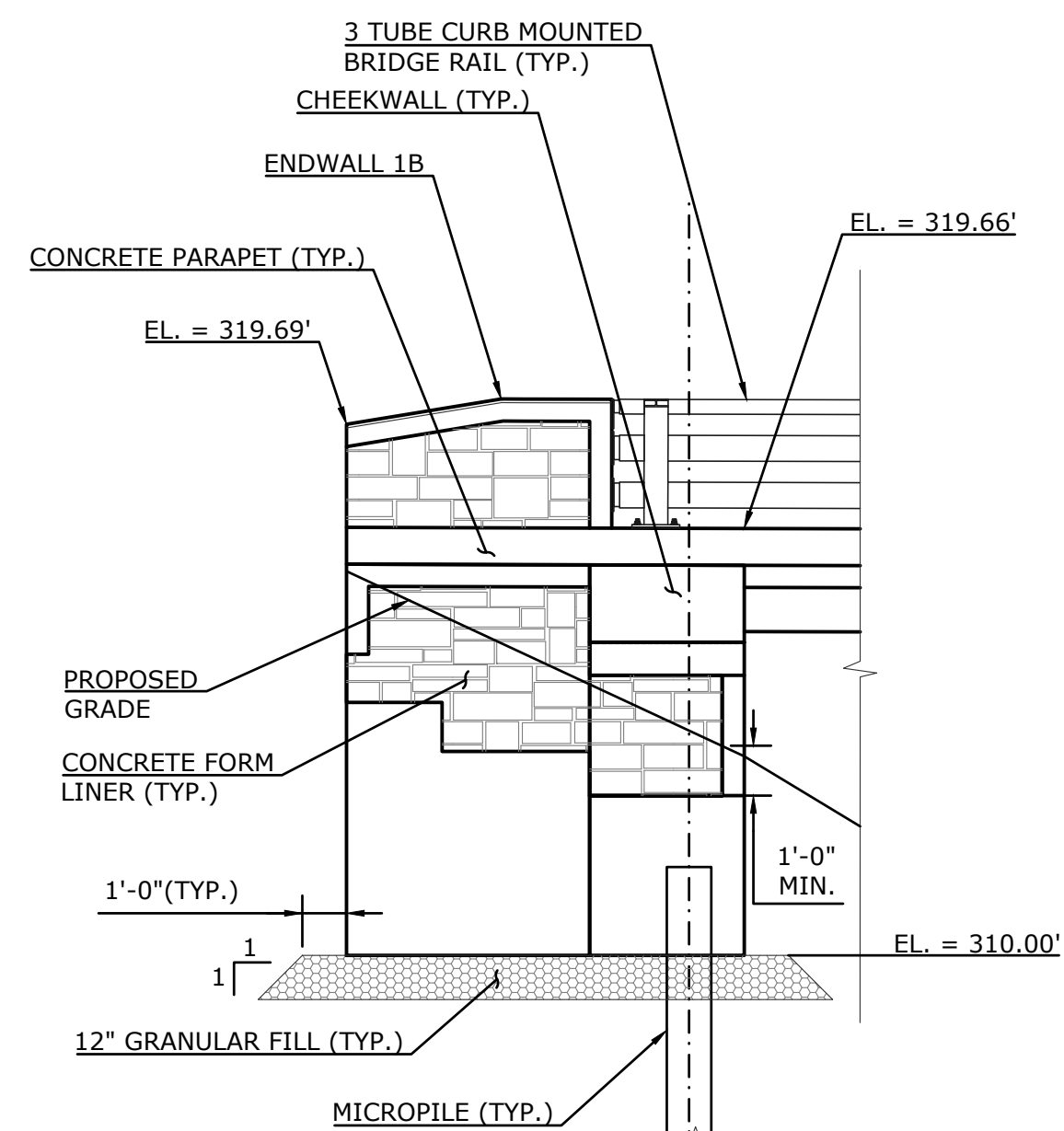
WINGWALL 2B PLAN

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



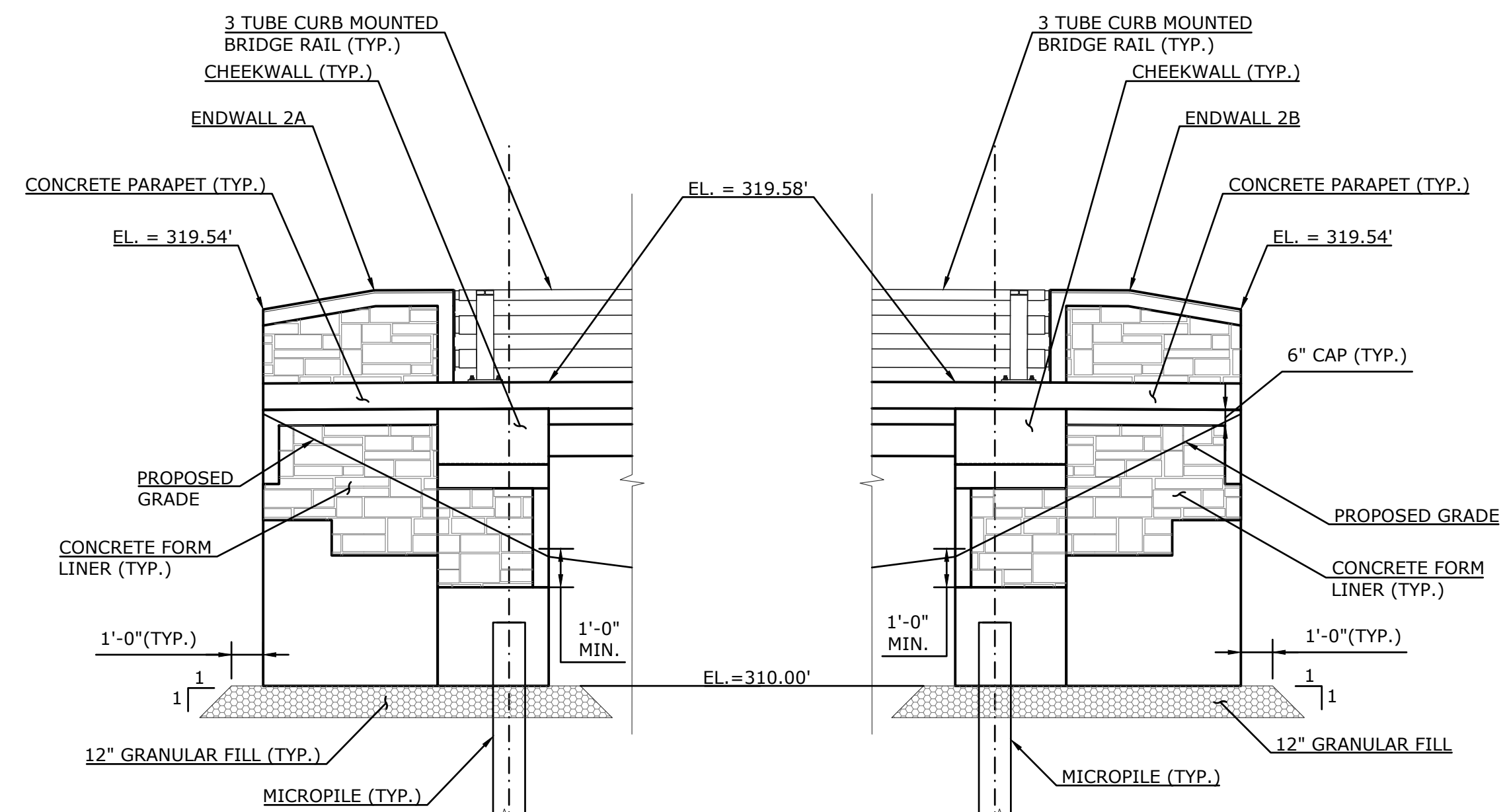
WINGWALL 1A ELEVATION

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



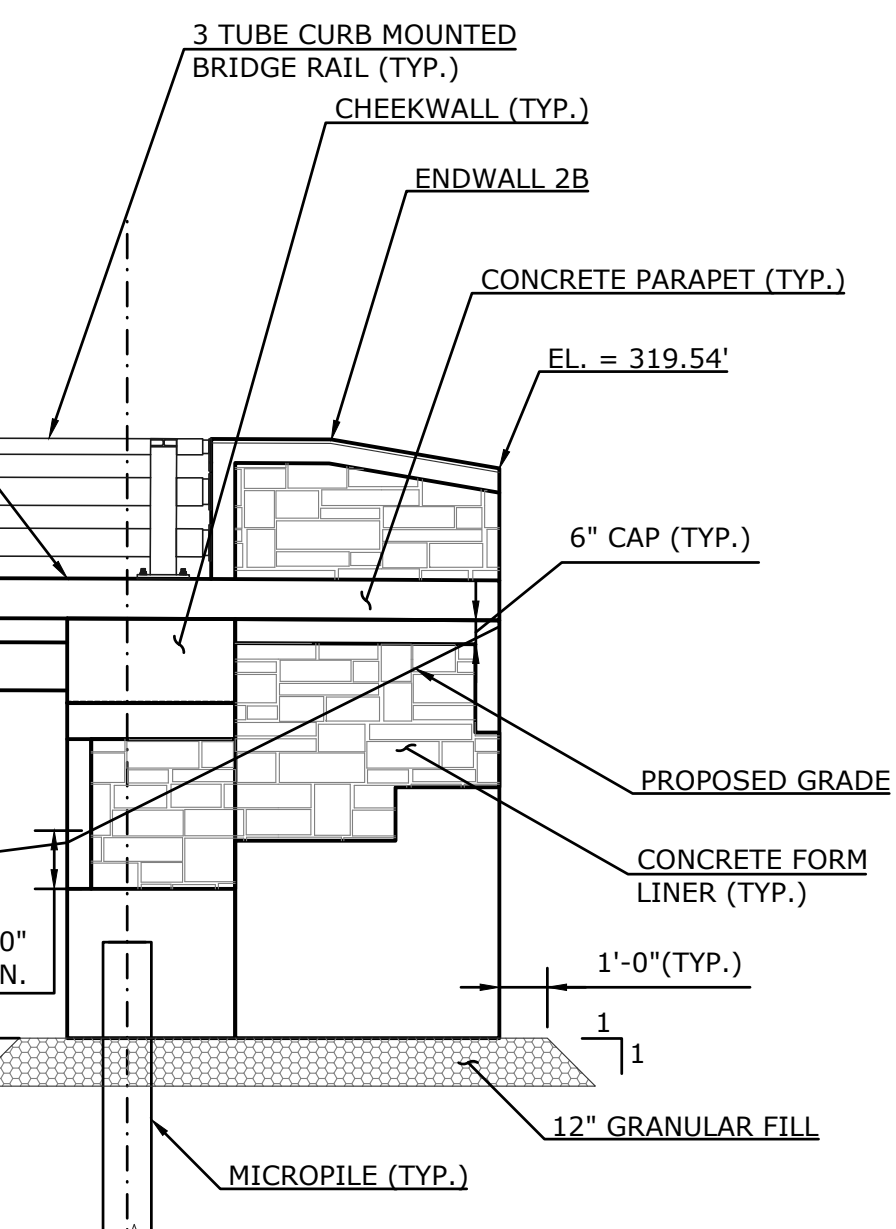
WINGWALL 1B ELEVATION

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



WINGWALL 2A ELEVATION

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



WINGWALL 2B ELEVATION

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

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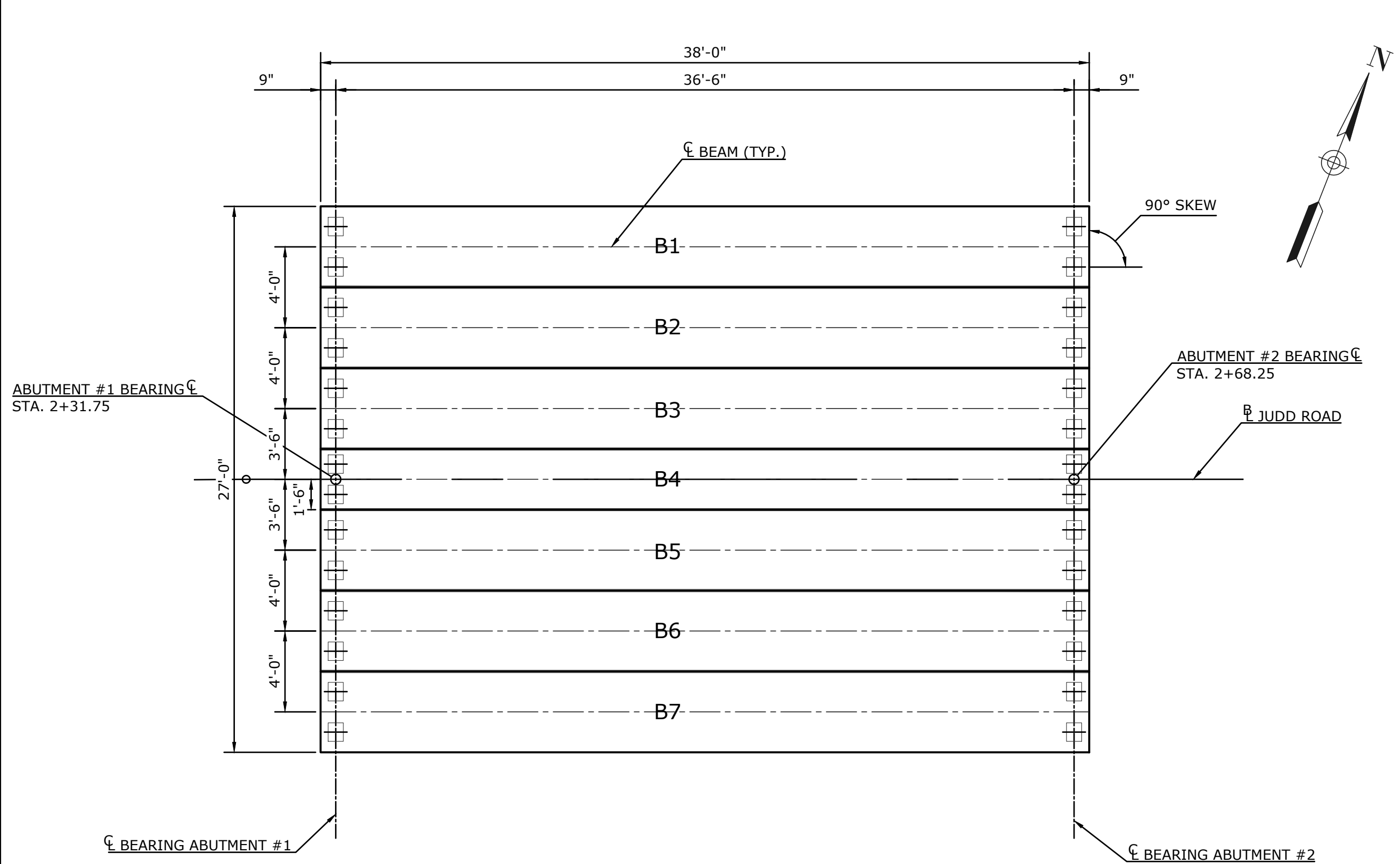
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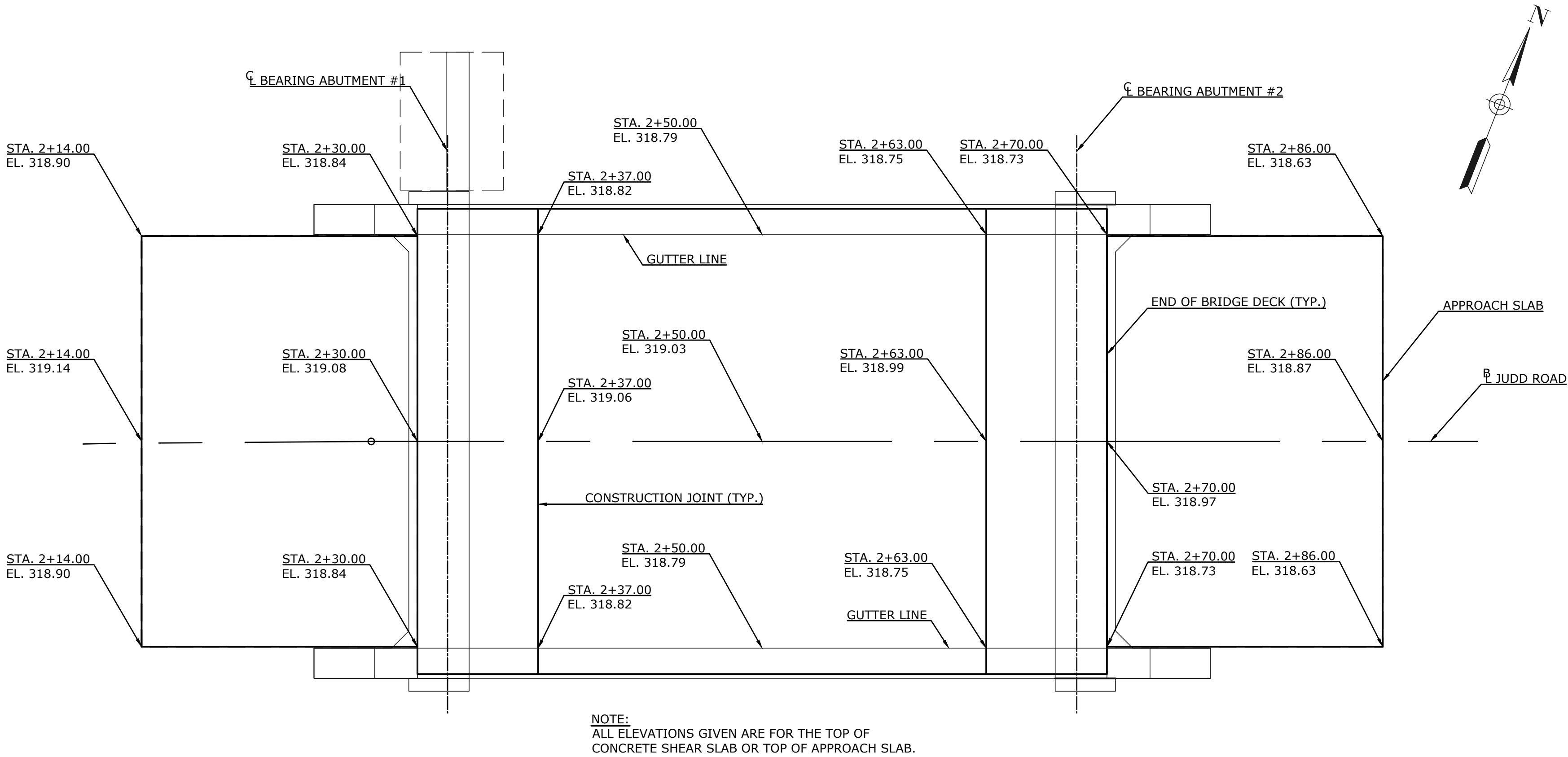
TOWN OF MONROE
7 FAN HILL ROAD
MONROE, CT 06468

REPLACEMENT OF BRIDGE 04929
JUDD ROAD OVER MILL RIVER
WINGWALL PLANS AND ELEVATIONS

D -	JUDD ROAD	-	S.F.D.	-	22007.10	-	SHEET	18
SIZE	PROJECT		FILE NAME		NUMBER	REV.	OF	25



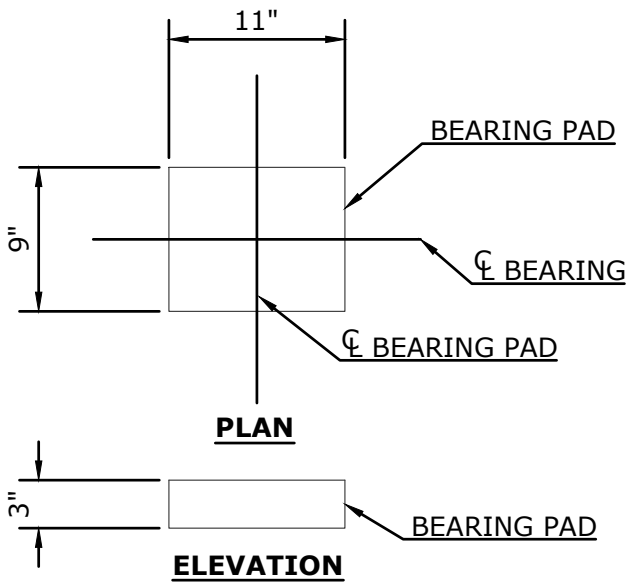
FRAMING PLAN
SCALE: 1"=5'-0"



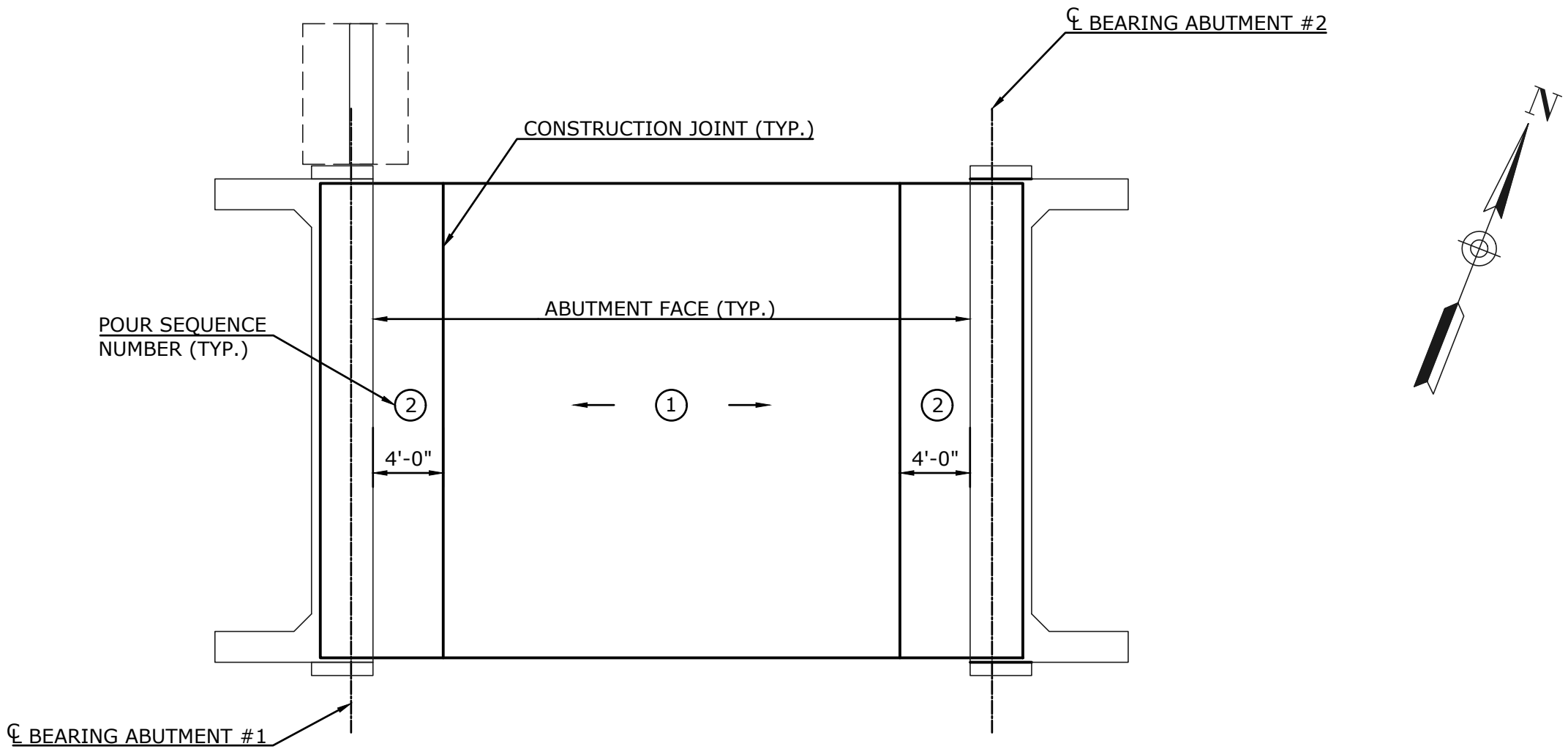
DECK & APPROACH SLAB PLAN
SCALE: 1"=5'-0"

BEARING ASSEMBLY NOTES:

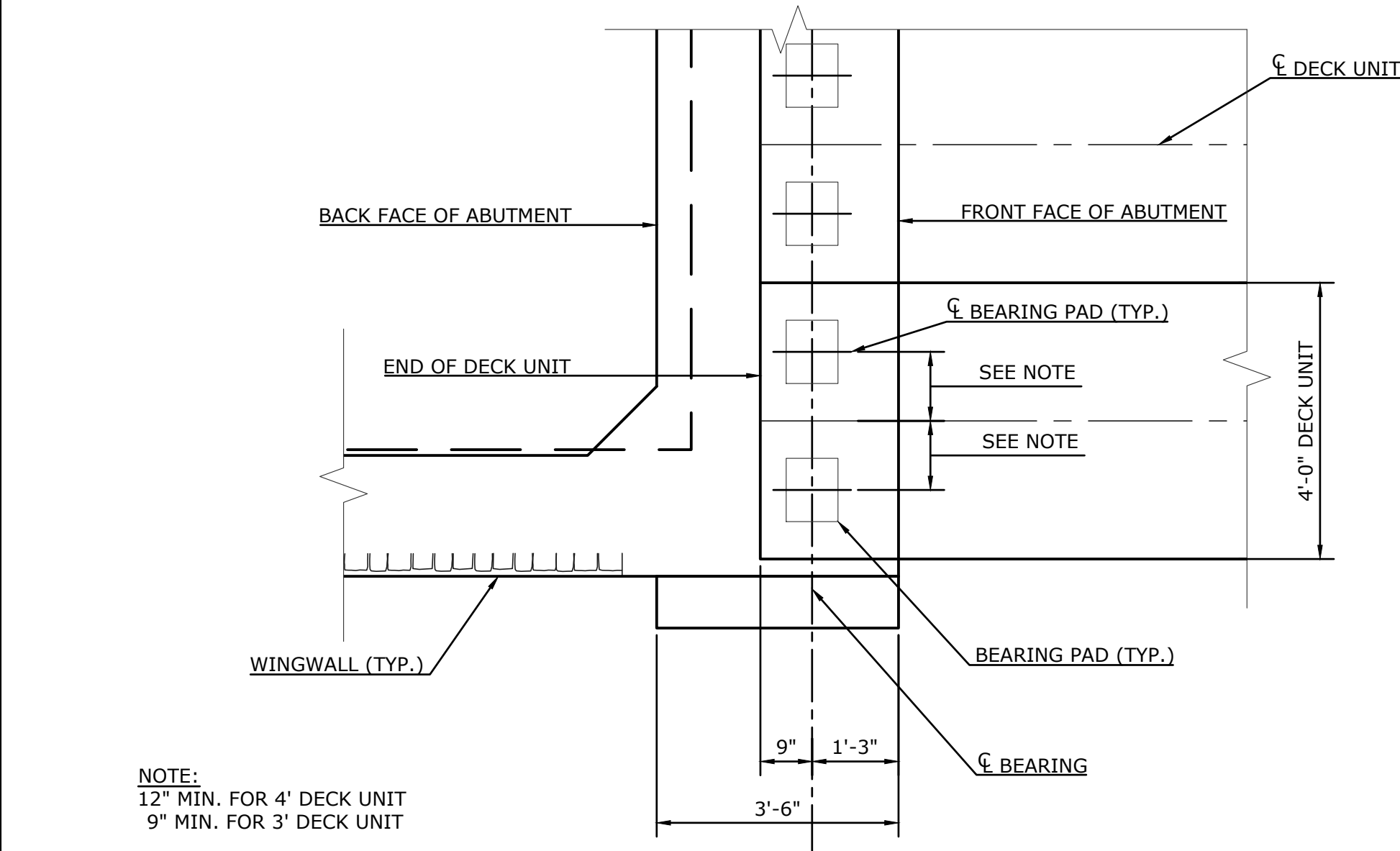
1. THE ELASTOMER SHALL BE TYPE CR, GRADE 3 AS DEFINED BY ASTM D4014 AND SHALL HAVE A SHORE A DUROMETER HARDNESS OF 70+/- 5 POINTS AND A SHEAR MODULUS WITHIN LIMITS 200 TO 250 PSI.
2. THE ELASTOMERIC BEARING SHALL BE INSTALLED WHEN THE AMBIENT AIR TEMPERATURE IS BETWEEN 41 F AND 77 F AND HAS BEEN WITHIN THIS RANGE FOR MORE THAN TWO HOURS.
3. THE CONCRETE ABUTMENT SEATS SHALL BE CAREFULLY FINISHED SMOOTH TO AN EVEN, LEVEL SURFACE AND SHALL SHOW NO VARIATIONS FROM A TRUE PLANE GREATER THAN 1/16".



ELASTOMERIC BEARING PAD DETAIL
SCALE: 1"=1'-0"



SHEAR SLAB PLACEMENT/POUR SEQUENCE
SCALE: 1/8"=1'-0"



ELASTOMERIC BEARING PAD LAYOUT
SCALE: 1/2"=1'-0"

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REVISIONS				

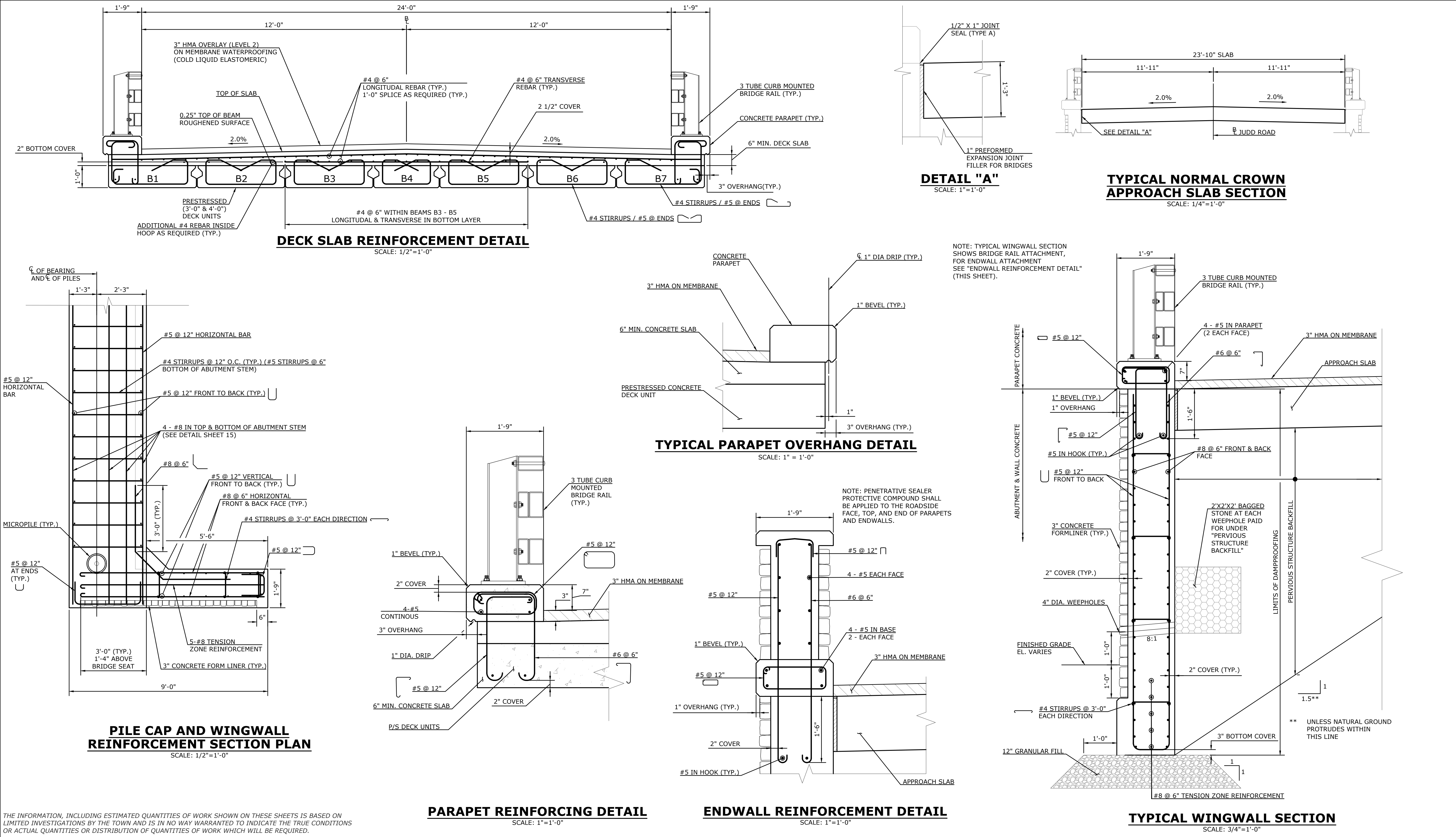
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PREPARED FOR
TOWN OF MONROE
7 FAN HILL ROAD
MONROE, CT 06468

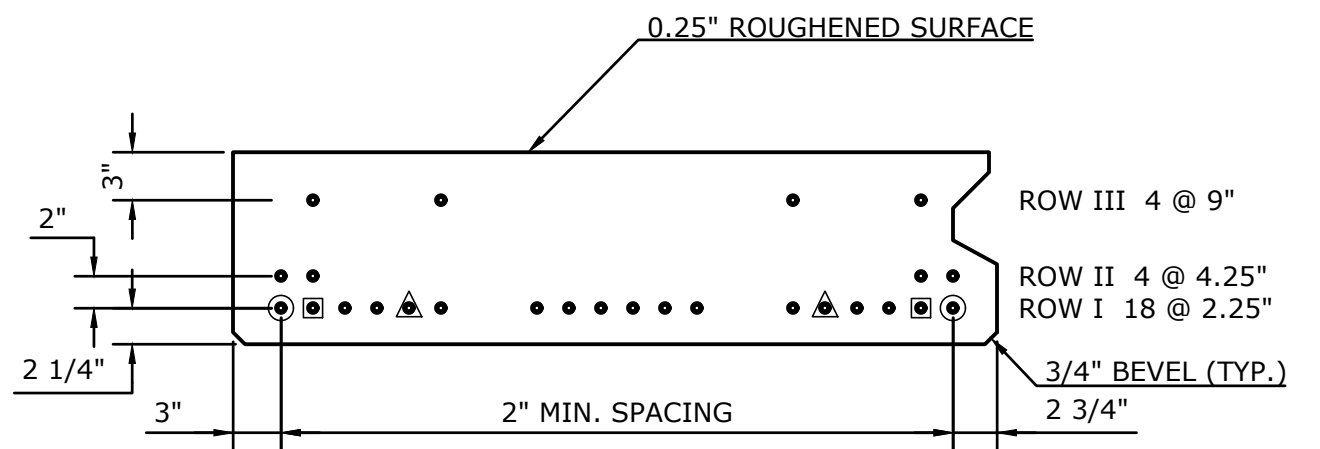
REPLACEMENT OF BRIDGE 04929
JUDD ROAD OVER MILL RIVER
FRAMING AND DECK PLAN

D - JUDD ROAD - S.F.D. - 22007.10 -				SHEET 19	
SIZE	PROJECT	FILE NAME	NUMBER	REV.	OF



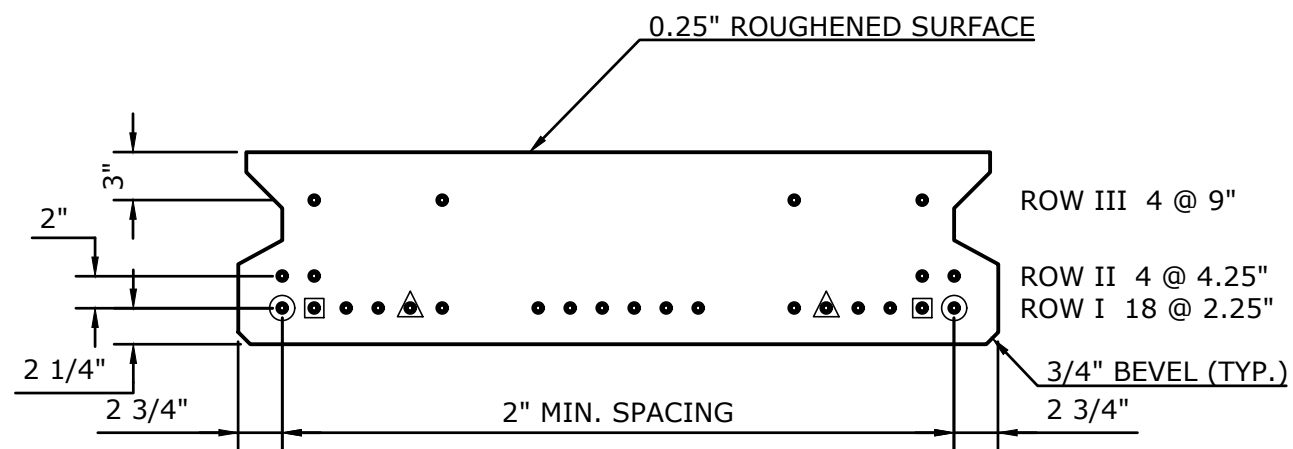
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			DESIGN	K.K.										
			DRAWN	P.W.S.										
			CHECKED	E.O.D.										
			DATE	XX/XX/20XX										
REVISIONS								D - JUDD ROAD - S.F.D. - 22007.10 -			SHEET 20			
NO.	DATE	DESCRIPTION						SIZE	PROJECT	FILE NAME	NUMBER	REV.	OF	25



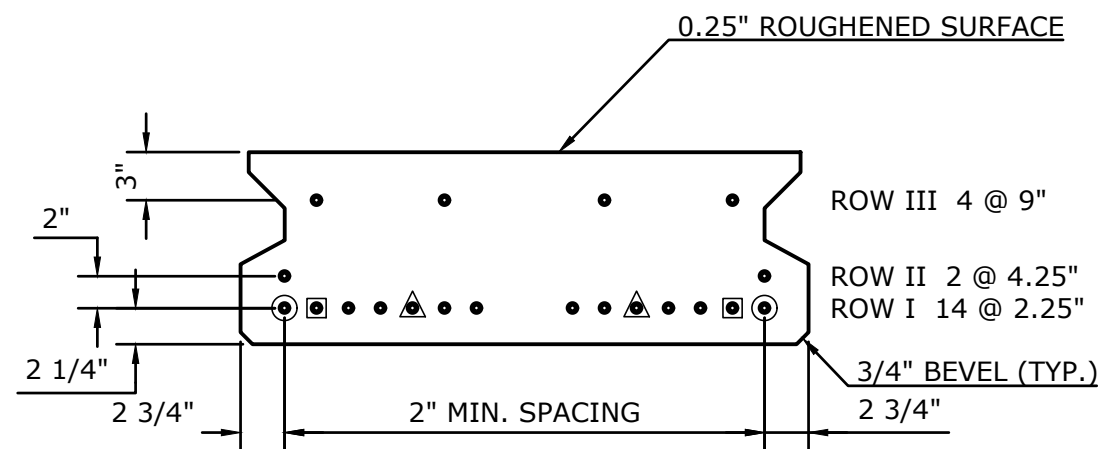
BEAM B1 & B7 STRAND LAYOUT

SCALE: 1" = 1'-0"



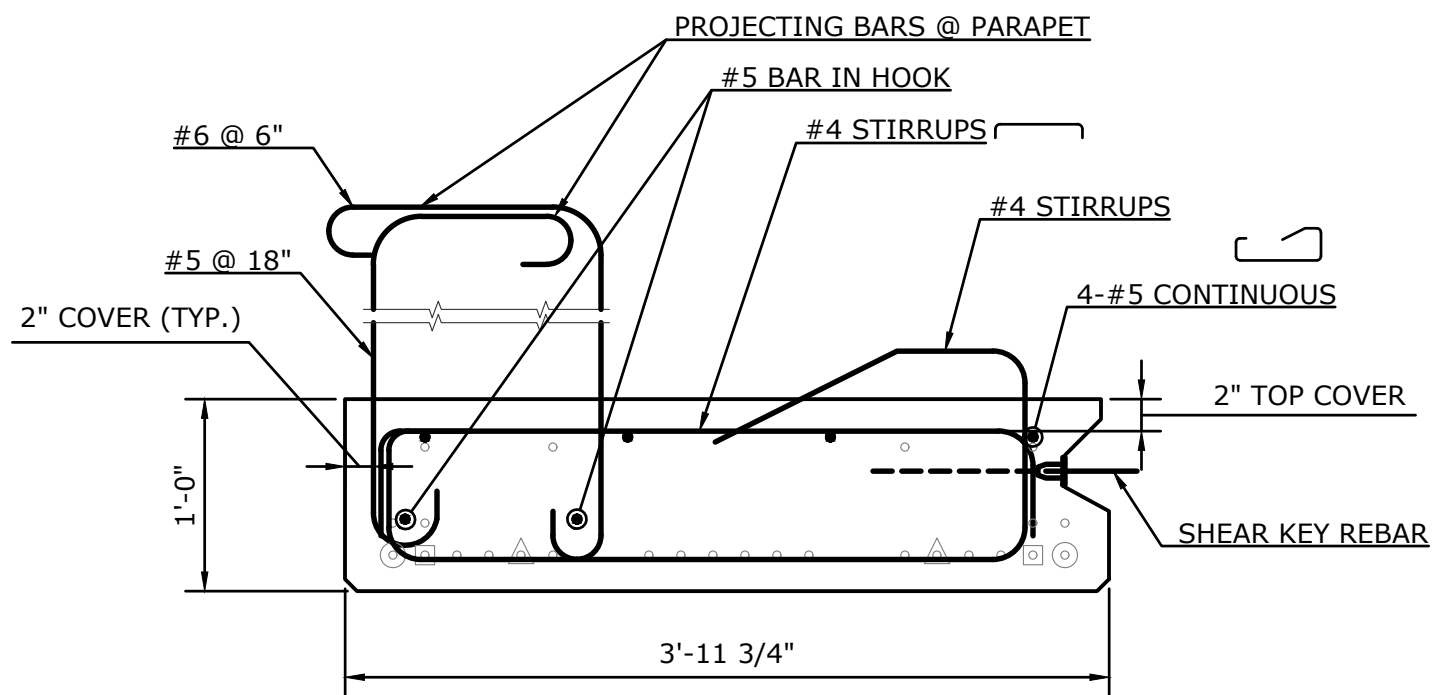
BEAM B2, B3, B5 & B6 STRAND LAYOUT

SCALE: 1" = 1'-0"



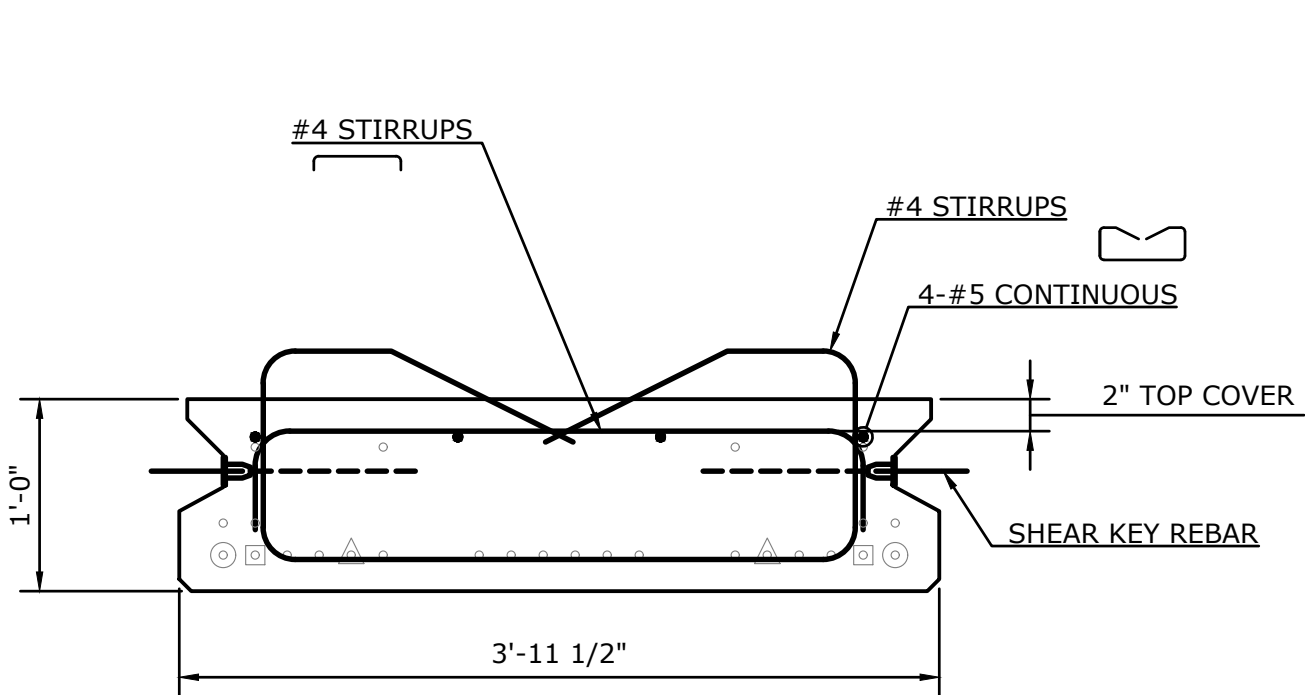
BEAM B4 STRAND LAYOUT

SCALE: 1" = 1'-0"



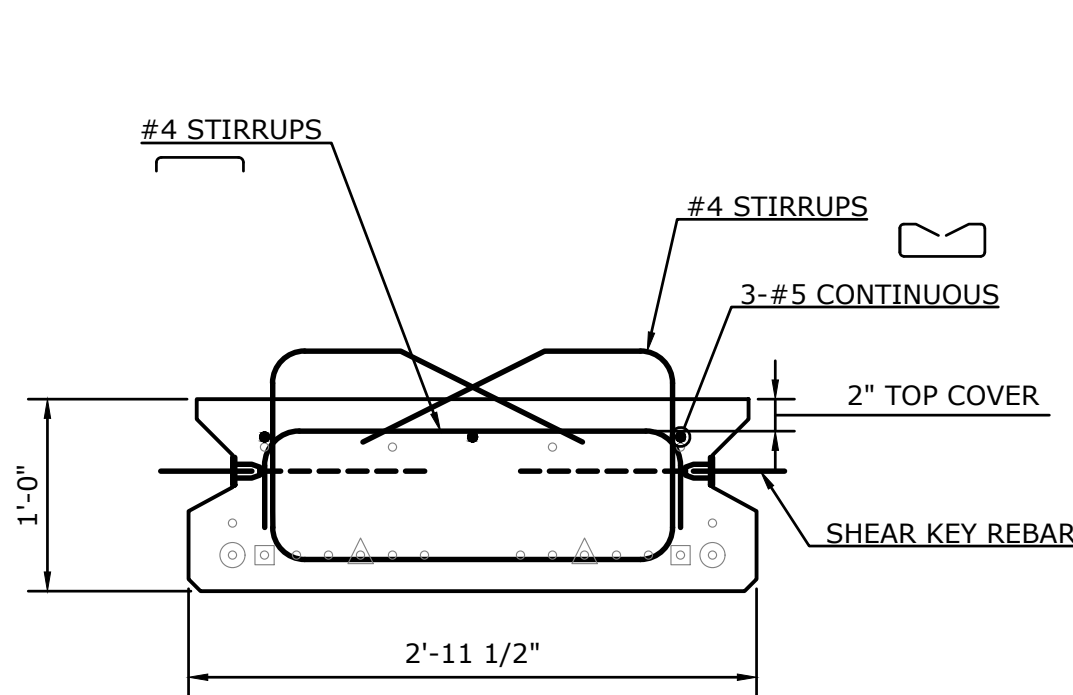
DIMENSIONS FOR BEAMS B1 & B7

SCALE: 1" = 1'-0"



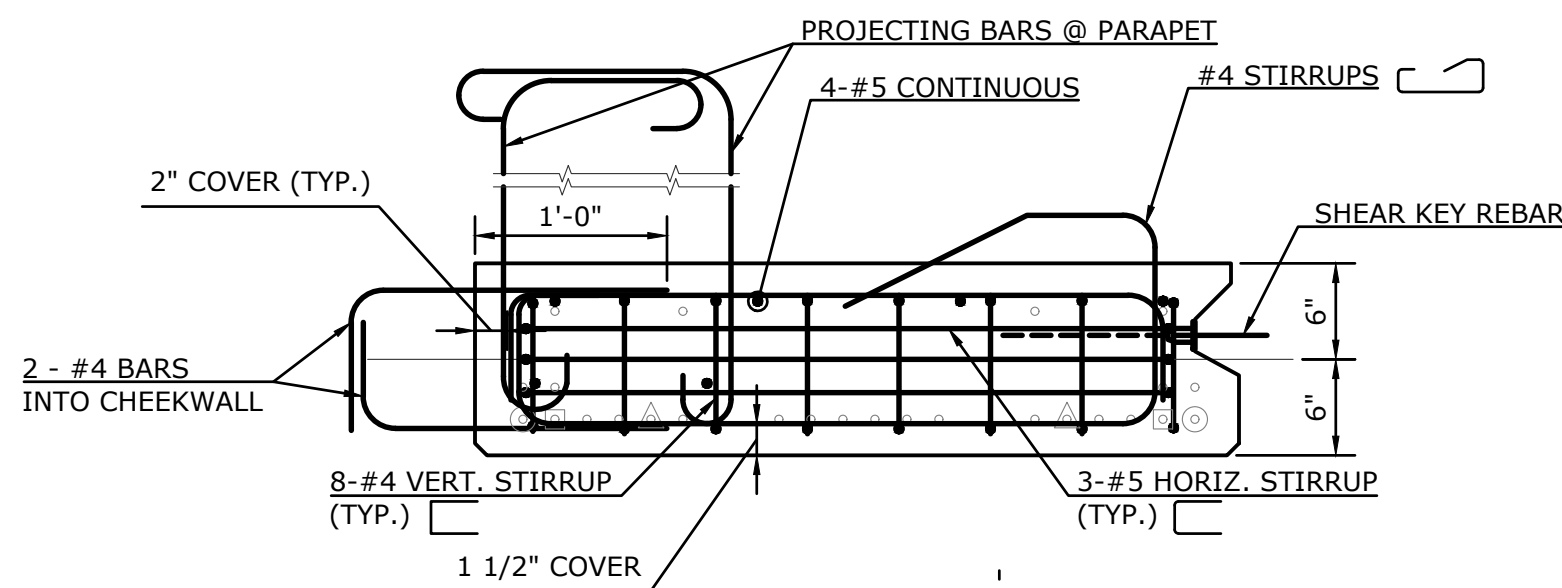
DIMENSIONS FOR BEAMS B2, B3, B5 & B6

SCALE: 1" = 1'-0"



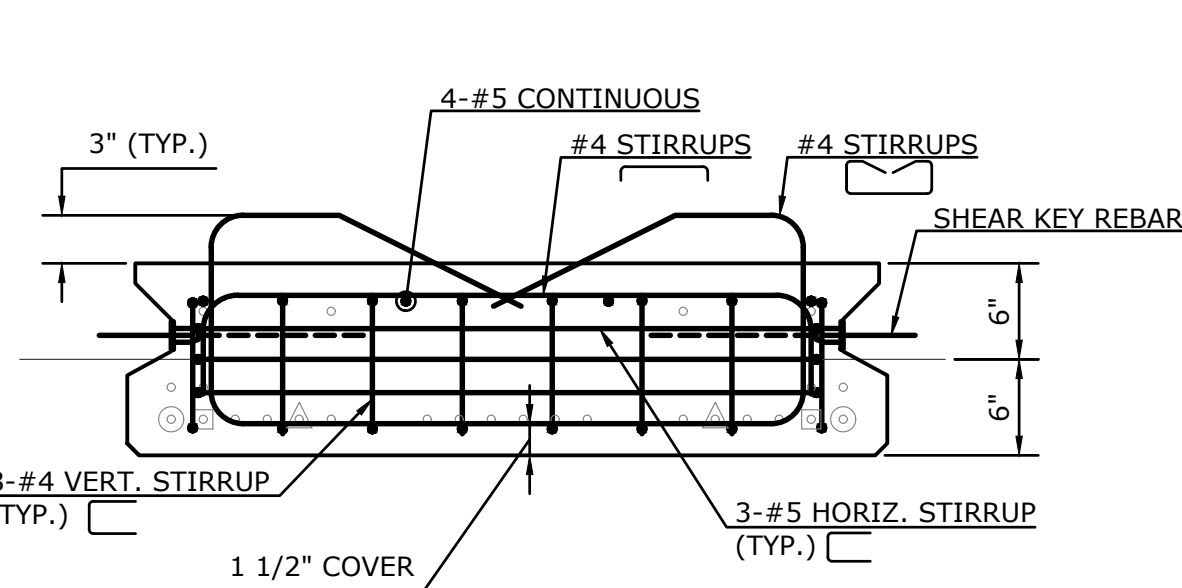
DIMENSIONS FOR BEAM B4

SCALE: 1" = 1'-0"



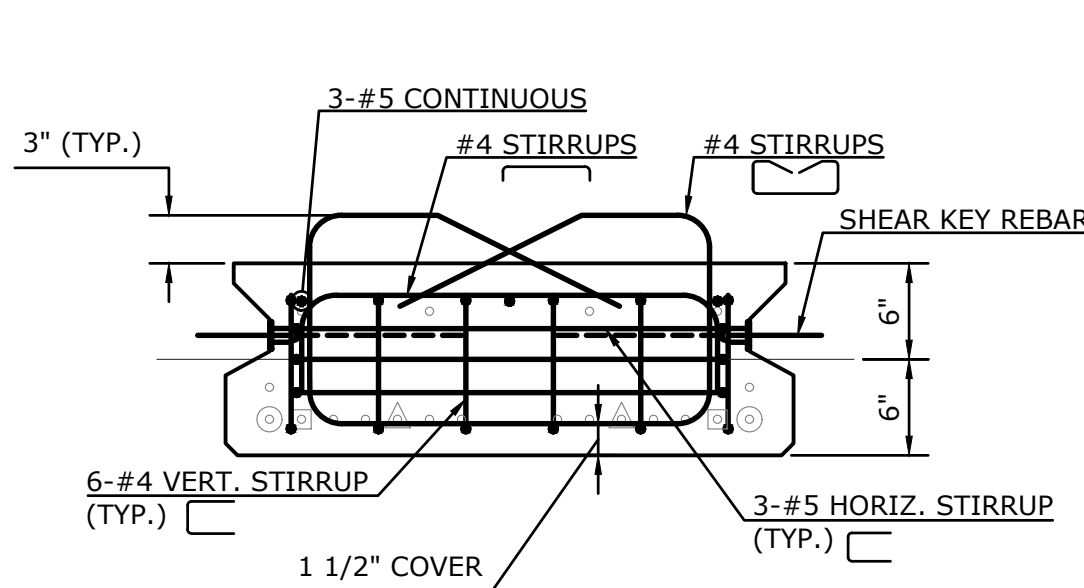
END SECTION FOR BEAMS B1 & B7

SCALE: 1" = 1'-0"



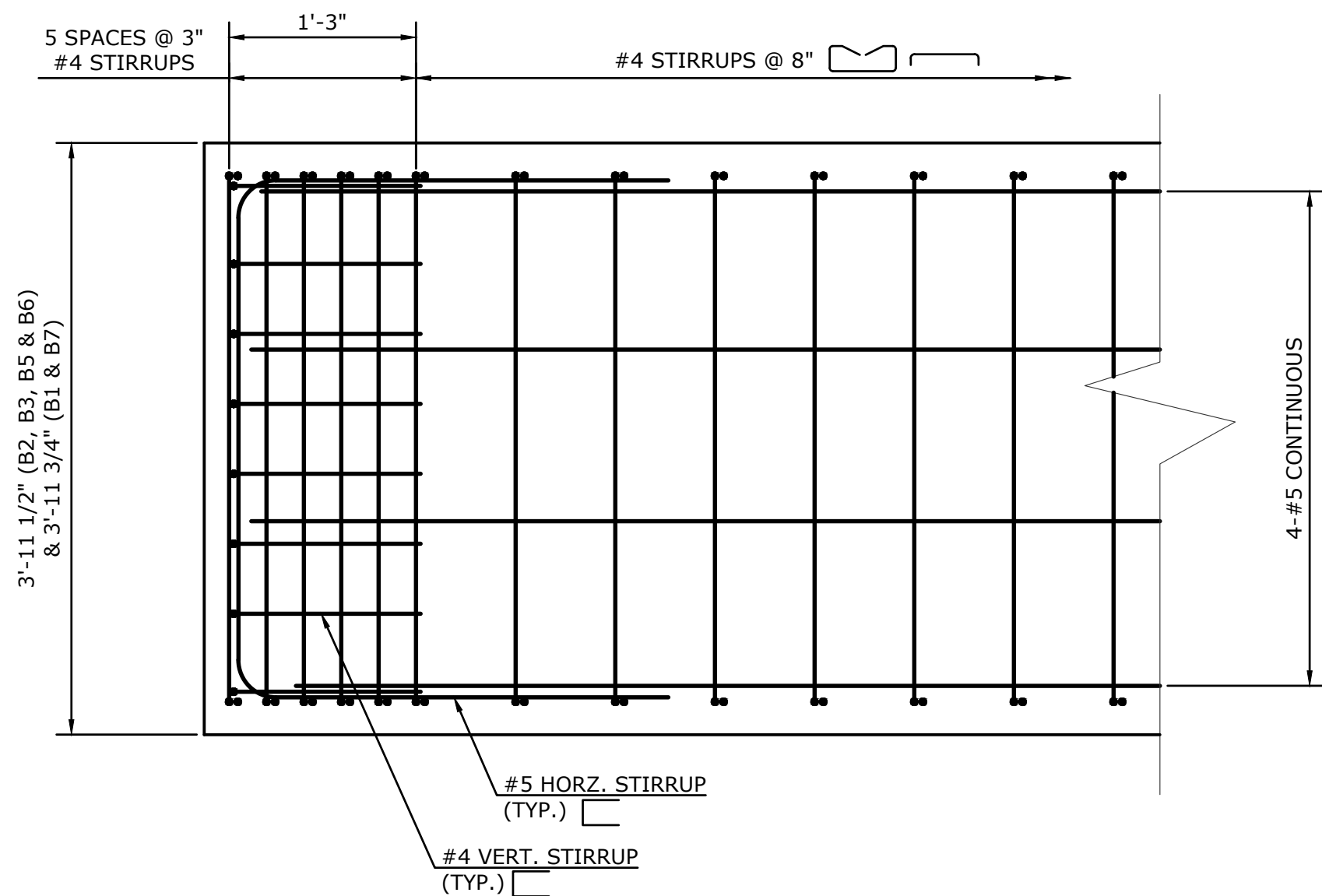
END SECTION FOR BEAMS B2, B3, B5 & B6

SCALE: 1" = 1'-0"



END SECTION FOR BEAM B4

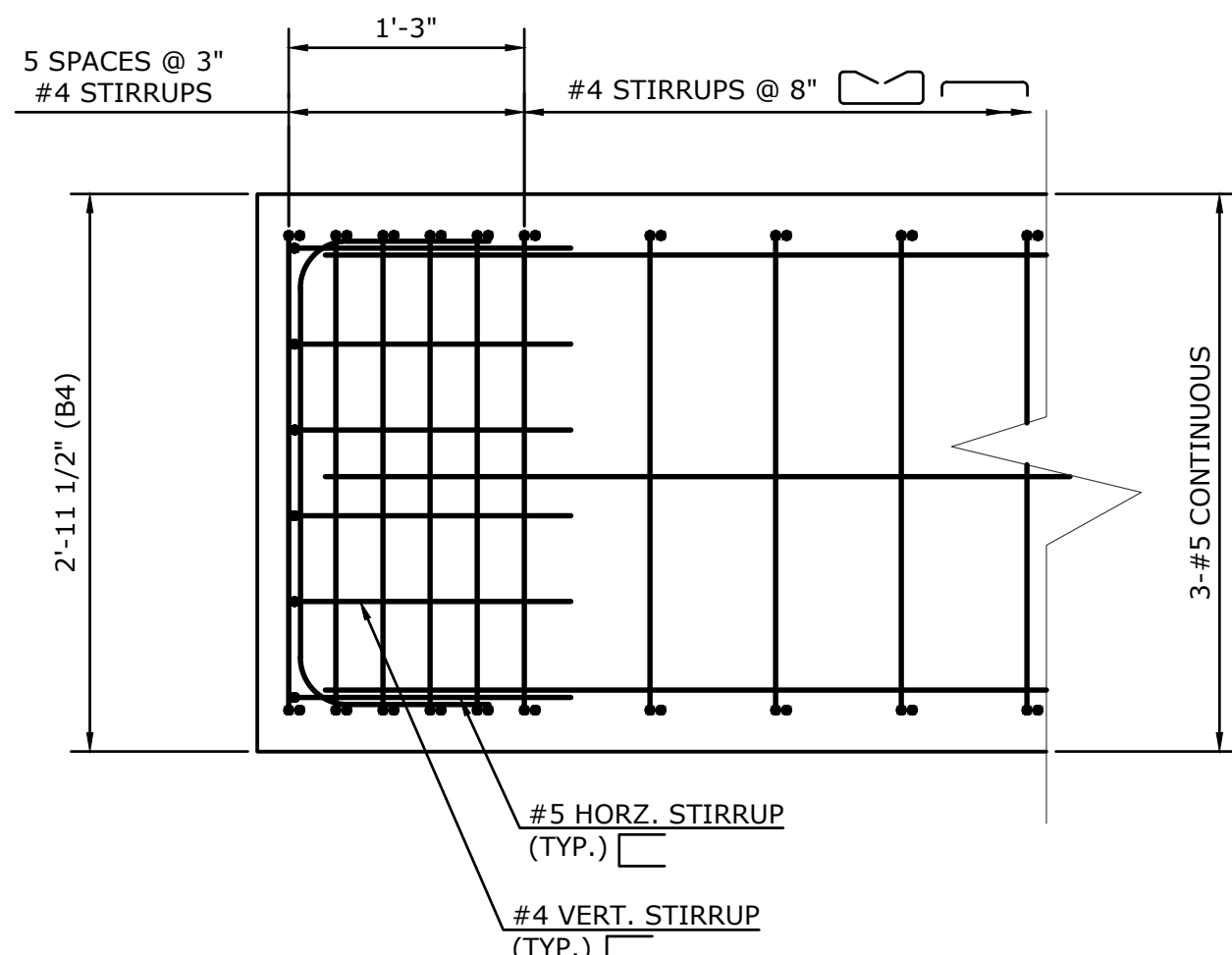
SCALE: 1" = 1'-0"



PLAN VIEW FOR BEAMS B1, B2, B3, B5, B6 & B7

(STRANDS NOT SHOWN FOR CLARITY)

SCALE: 1" = 1'-0"



PLAN VIEW FOR BEAM B4

(STRANDS NOT SHOWN FOR CLARITY)

SCALE: 1" = 1'-0"

STRAND LEGEND	
•	FULLY BONDED
⊙	FULLY BONDED & EXTENDED P/S STRANDS 1'-6" WITH 90 DEGREE BEND
▲	DEBONDED 4'-0" FROM ENDS
▣	DEBONDED 6'-0" FROM ENDS

PRESTRESSED DECK UNIT NOTES:

1. PRESTRESSED DECK UNITS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS.

F'c= 6,000 PSI
F'ci=5,000 PSI

2. PRESTRESSED STRANDS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS.
0.6" DIAMETER, UNCOATED, 7 WIRE, LOW RELAXATION STRANDS CONFORMING TO THE REQUIREMENTS OF AASHTO M203, GRADE 270

ULTIMATE STRENGTH (F's) = 270,000 PSI
JACKING TENSION (Fj) = 43,900 LBS. PER STRAND

3. PRESTRESSED STRANDS SHALL BE PLACED 2" MINIMUM ON CENTER AND SHALL HAVE A MINIMUM COVER OF 2".

4. ENDS OF DECK UNITS SHALL BE VERTICAL AFTER APPLICATION OF FULL DEAD LOAD.

5. THE DRILLING OF HOLES IN PRESTRESSED DECK UNITS, OR THE USE OF POWER ACTUATED TOOLS ON PRESTRESSED DECK UNITS WILL NOT BE PERMITTED.

6. NO ADDITIONAL DEAD LOADS OR LIVE LOADS SHALL BE APPLIED TO THE PRESTRESSED DECK UNITS UNTIL THE GROUT IN THE LONGITUDINAL SHEAR KEYS HAS REACHED A SEVEN-DAY COMPRESSIVE STRENGTH OF 4500 PSI. NO ADDITIONAL DEAD LOADS OR LIVE LOADS SHALL BE APPLIED TO THE PRESTRESSED DECK UNITS UNTIL THE CAST-IN-PLACE DECK SLAB HAS REACHED A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI.

7. THE DECK UNITS SHALL BE PLACED AT THE NOMINAL SPACING SHOWN ON THE PLANS WITH A 1/2" WIDE GAP BETWEEN THE UNITS. THE WIDTH OF THIS GAP CAN VARY DUE TO SWEEP OF THE BEAMS.

8. GROUT FOR SHEAR KEYS SHALL BE RODDED OR VIBRATED TO ENSURE THAT ALL VOIDS IN THE SHEAR KEY ARE FILLED.

9. SHEAR KEY SHALL BE OMITTED ON OUTSIDE FACE OF FASCIA PRESTRESSED DECK UNITS AND THE OUTSIDE FACE OF DECK UNIT B7 FOR STAGED CONSTRUCTION.

10. TOPS OF BEAMS ARE TO BE INTENTIONALLY ROUGHENED TO PROVIDE ADEQUATE CONTACT SURFACE WITH THE CONCRETE SHEAR SLAB.

11. EXTEND LONGITUDINAL LEGS OF HORIZONTAL STIRRUPS A MINIMUM DISTANCE EQUAL TO THE DEPTH OF THE BEAM OR 12" INTO THE WEB OF THE VOIDED SECTION, WHICHEVER IS LARGER.

12. HORIZONTAL LEGS OF THE VERTICAL STIRRUPS ARE EQUAL TO THE DEPTH OF THE BEAMS.

13. ALL NON-PRESTRESSED REINFORCING BARS SHALL BE GALVANIZED AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615, GRADE 60, AFTER FABRICATION, TO THE REQUIREMENTS OF ASTM A 767, CLASS 1, INCLUDING SUPPLEMENTAL REQUIREMENTS. BARS SHALL BE SECURELY TIED TO PREVENT DISLOCATION. ALL TIES SHALL BE GALVANIZED.

14. PRECAST MANUFACTURING PLANT FURNISHING PRECAST PRESTRESSED BRIDGE MEMBERS SHALL BE CERTIFIED BY THE PRECAST PRESTRESSED CONCRETE INSTITUTE PLANT CERTIFICATION PROGRAM. THE CERTIFICATION SHALL BE AS A MINIMUM IN THE B3 CATEGORY. THE MANUFACTURER SHALL SUBMIT PROOF OF CERTIFICATION PRIOR TO THE START OF PRODUCTION.

15. TOLERANCES FOR PRESTRESSED MEMBERS SHALL CONFORM TO THE LIMITS SPECIFIED IN THE "MANUAL FOR QUALITY CONTROL FOR PLANS AND PRODUCTION OF PRECAST PRESTRESSED CONCRETE PRODUCTS."

16. PROPER BEAM HANDLING HOOKS LOCATED ON THE TOP OF THE PRESTRESSED DECK UNITS SHALL BE PROVIDED BY THE FABRICATOR. THE FABRICATOR SHALL CONSIDER THE LOCATION OF THE CENTER OF GRAVITY. DURING HANDLING, THE BEAMS MUST BE MAINTAINED IN AN UPRIGHT POSITION AT ALL TIMES AND MUST BE PICKED UP ONLY BY MEANS OF APPROVED LIFTING DEVICES AT THEIR APPROVED SUPPORT POINTS.

17. ANY STRUCTURAL MEMBERS DAMAGED DURING FABRICATION, SHIPPING OR ERECTION, SUCH THAT THEIR STRUCTURAL INTEGRITY IS COMPROMISED, SHALL BE REJECTED AND REPLACED AT THE CONTRACTOR'S OWN EXPENSE. THE ENGINEER SHALL BE THE SOLE JUDGE IN DETERMINING THE STRUCTURAL INTEGRITY OF DAMAGED PRESTRESSED MEMBERS.

18. INSERTS, ANCHORS AND ANY OTHER ITEMS REQUIRED TO BE CAST INTO THE DECK UNITS SHALL BE SHOWN ON THE SHOP DRAWINGS. ALL HARDWARE SHALL BE GALVANIZED.

19. BEAM WIDTH FABRICATION TOLERANCE SHALL BE WITHIN .25" DUE TO STAGE 3 BEAM ERECTION.

STRAND DATA			
MEMBER NUMBER	NUMBER OF STRANDS	C.G. OF STRANDS (INCHES)	
		END (A)	MIDSPAN (B)
B1-B3 & B5-B7	26	3.84	3.60
B4	20	4.19	3.80

CAMBER TABLE					
MEMBER NUMBER	ESTIMATED CAMBER AT MIDSPAN				
	AT TRANSFER	AT ERECTION	TOTAL CAMBER	FINAL	
	CAMBER DUE TO PRETENSIONING FORCE AT TRANSFER MINUS THE DEFLECTION DUE TO THE DEAD LOAD OF THE MEMBER.	CAMBER (DUE TO PRETENSIONING FORCE AT TRANSFER MINUS DEFLECTION DUE TO THE DEAD LOAD OF THE MEMBER) APPROXIMATELY 30 DAYS AFTER TRANSFER.	CAMBER AFTER ALL DEAD LOADS ARE APPLIED TO THE STRUCTURE.	CAMBER AFTER ALL DEAD LOADS ARE APPLIED TO THE STRUCTURE, AND AFTER LONG TERM CREEP AND RELAXATION HAVE TAKEN PLACE	
	B1, B7	1.131"	1.991"	1.403"	0.808"
	B2, B3, B5 & B6	1.131"	1.991"	1.423"	0.851"
B4	0.987"	1.731"	1.091"	0.317"	

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87 HOLMES ROAD
NEWINGTON, CT 06111
(860) 667-9624

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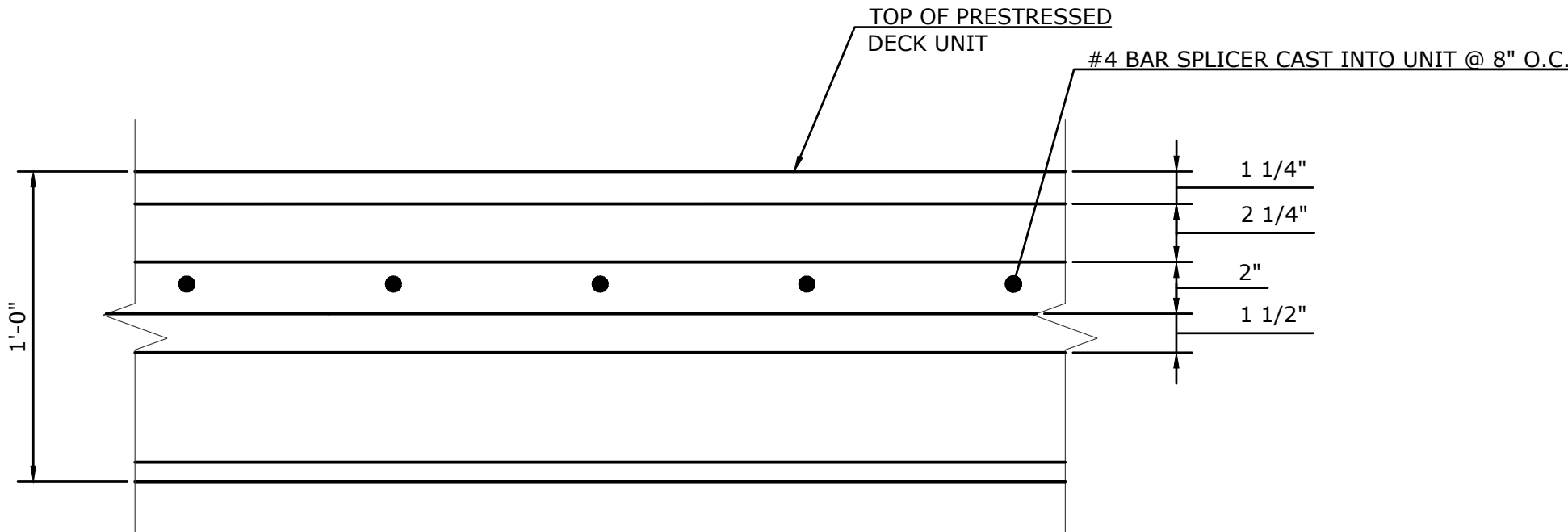
TOWN OF MONROE

7 FAN HILL ROAD

MONROE, CT 06468

REPLACEMENT OF BRIDGE 04929
JUDD ROAD OVER MILL RIVER
PRESTRESSED CONCRETE DECK UNITS

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SIZE	PROJECT	FILE NAME	NUMBER	REV.	OF	25

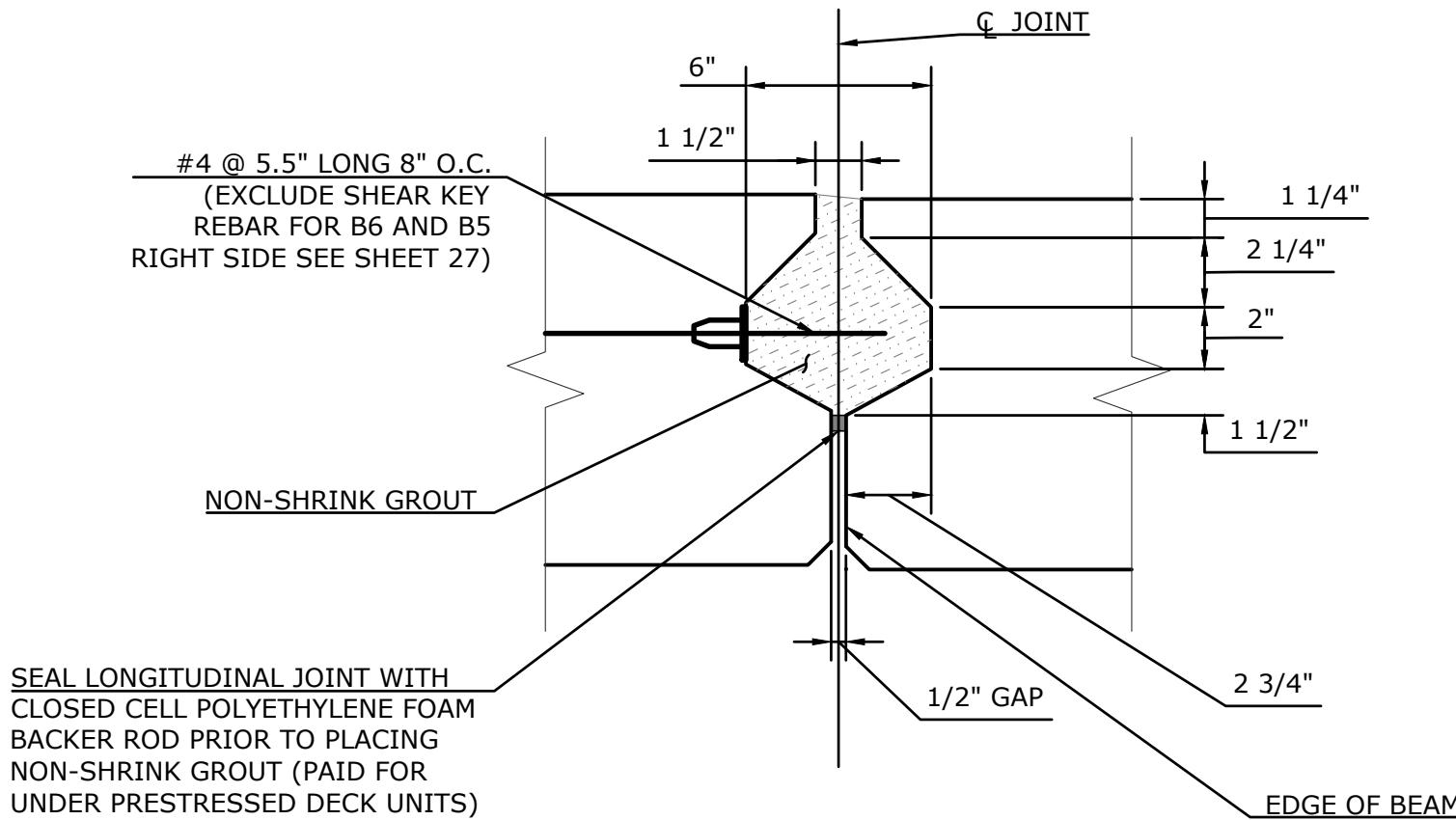


**SHEAR KEY FOR PRECAST
CONCRETE DECK UNITS**

2"=1'-0"

NON-SHRINK GROUT SHEAR KEY NOTES:

- NON-SHRINK GROUT SHALL CONFORM TO THE FOLLOWING:
F'C = 6,000 PSI
- SHEAR KEYS TO BE FILLED WITH NON-SHRINK GROUT SHALL BE ROUGHENED AND CLEANED PRIOR TO DECK UNIT PLACEMENT.
- SECURE #4 SPLICE BARS TO DECK UNIT AFTER ROUGHENING CONCRETE BUT PRIOR TO DECK UNIT PLACEMENT.
- AFTER FINAL DECK UNIT PLACEMENT, SHEAR KEYS SHALL BE FILLED WITH NON-SHRINK GROUT IN ONE CONTINUOUS POUR PER KEY.
- IF THE TOP SURFACES OF THE ADJACENT DECK UNITS DO NOT MATCH, THE GROUT SHALL BE SLOPED FOR A SMOOTH TRANSITION.
- GRIND ANY NON-SHRINK GROUT OVER FLOW FLUSH AFTER CURING.
- NON-SHRINK GROUT TO BE PAID FOR UNDER ITEMS "PRESTRESSED DECK UNITS (3'-0" X 1'-0") , (4'-0" X 1'-0")".

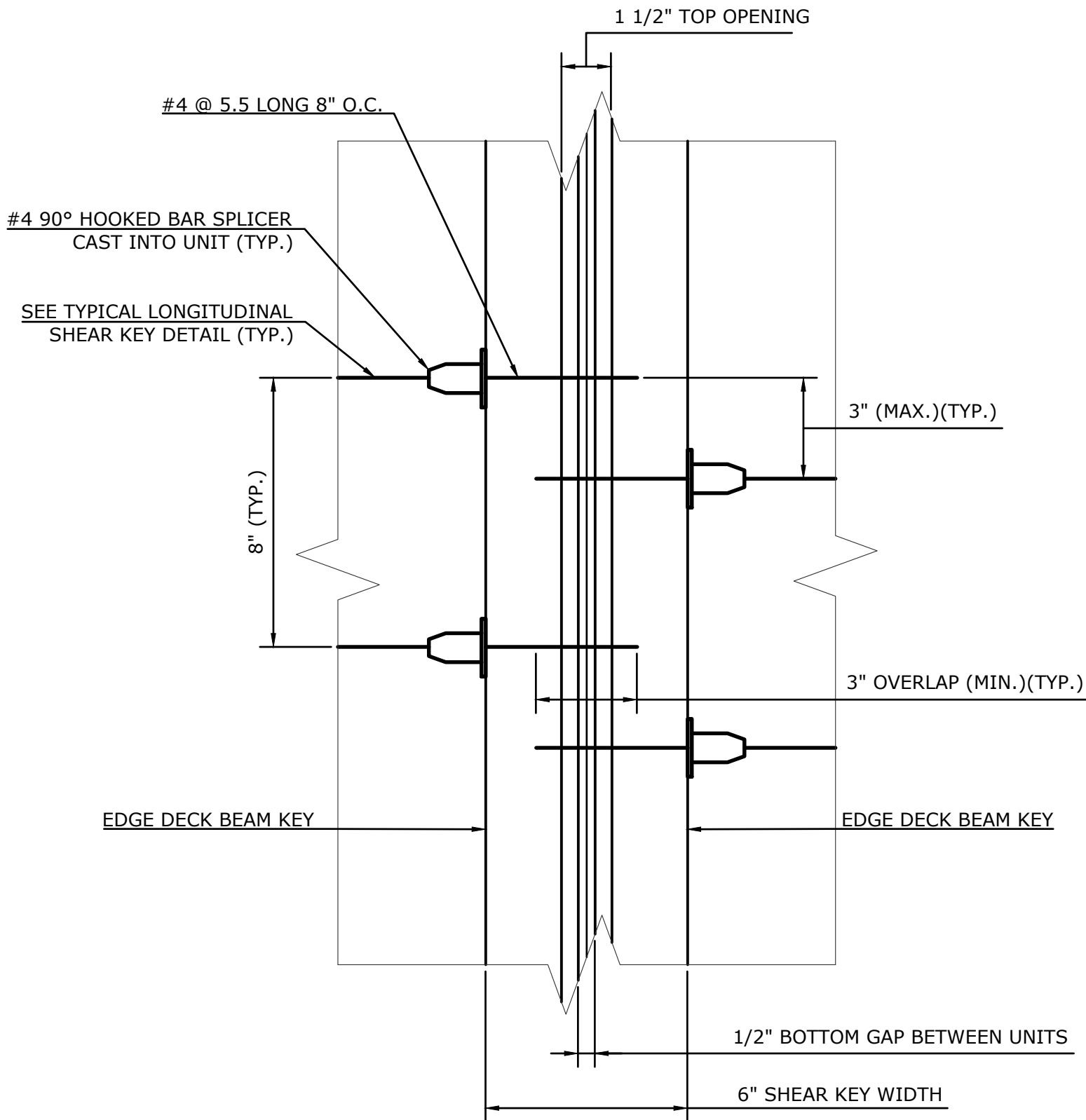


NOTES:

THE DECK UNITS SHALL BE PLACED AT THE NOMINAL SPACING SHOWN ON THE PLAN WITH A GAP BETWEEN THE UNITS. THE WIDTH OF THE GAPS WILL VARY DUE TO THE SWEEP OF THE UNITS

**TYPICAL LONGITUDINAL SHEAR KEY
PRESTRESSED CONCRETE DECK UNITS**

SCALE: 2"=1'-0"

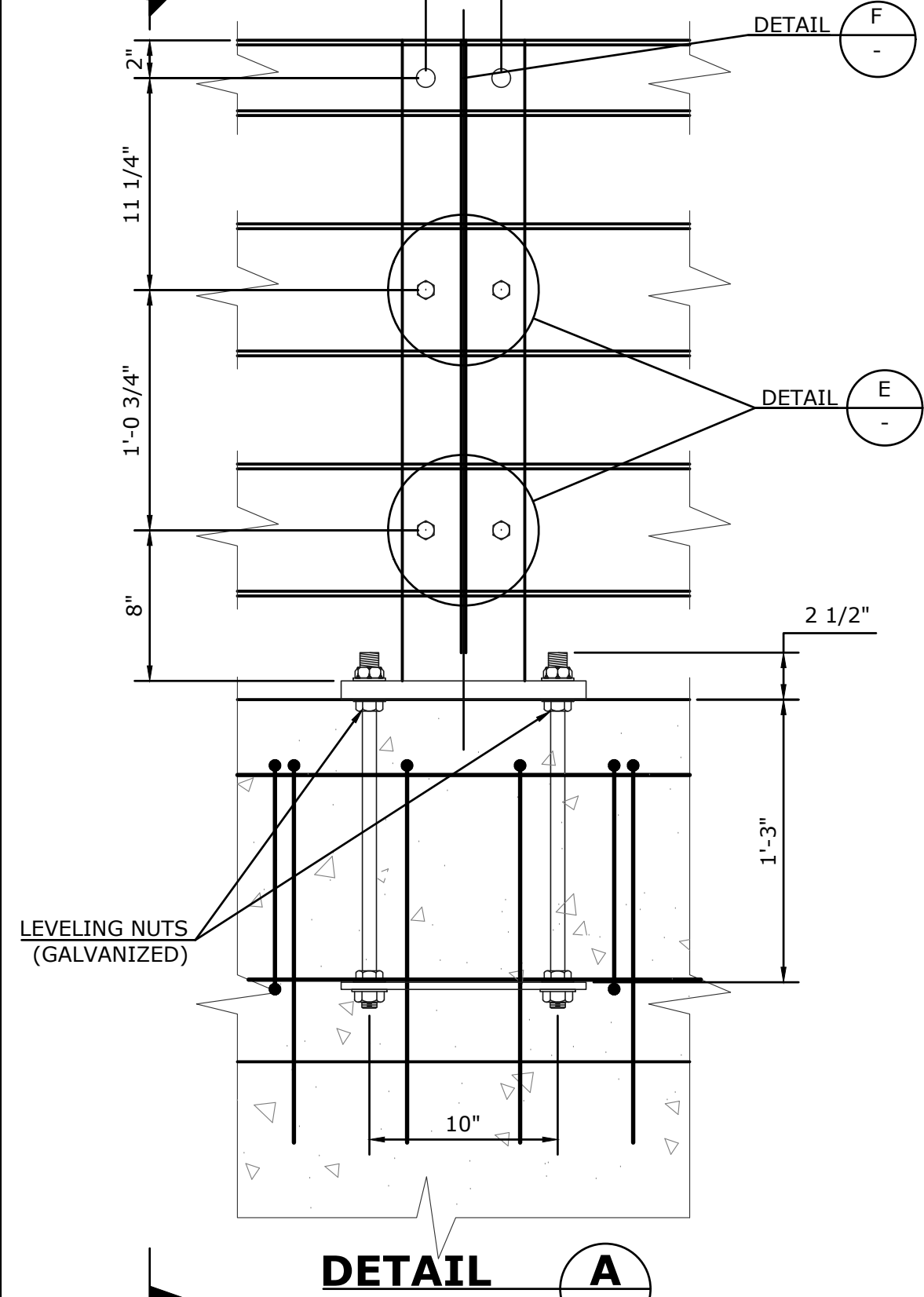
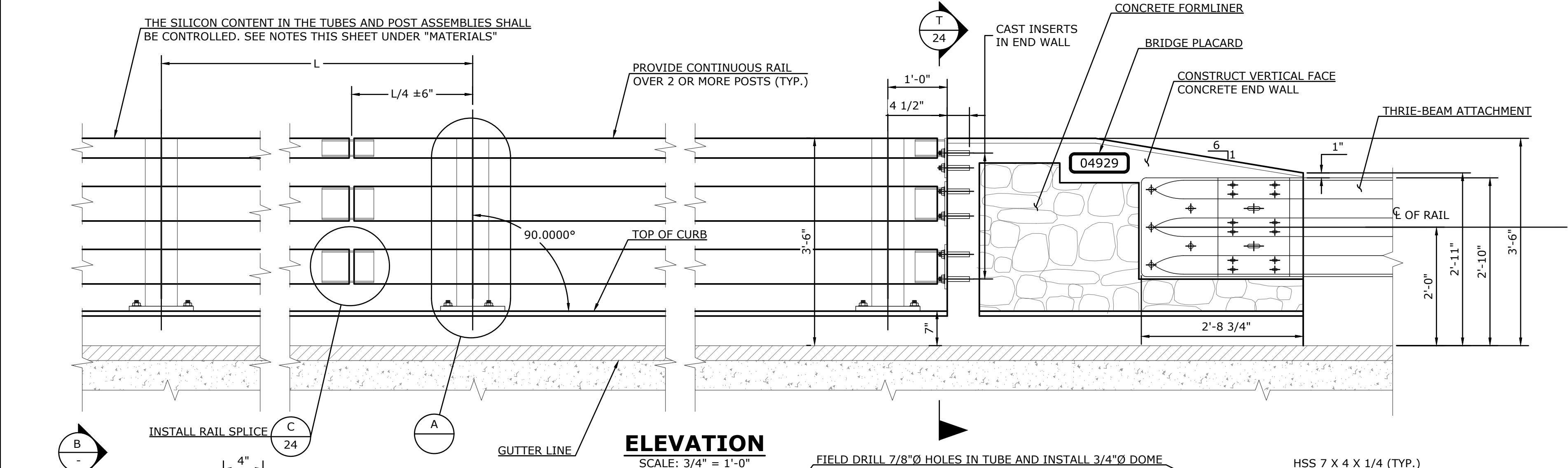
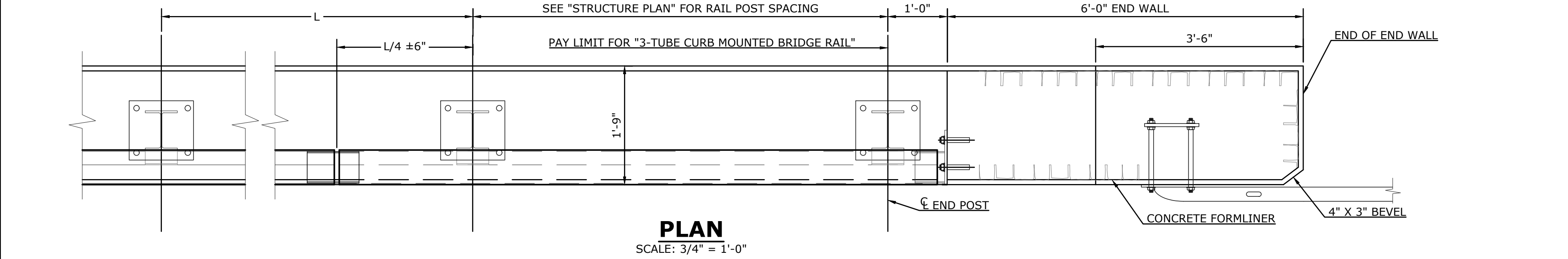


**NON-SHRINK GROUT
SHEAR KEY PLAN**

3"=1'-0"

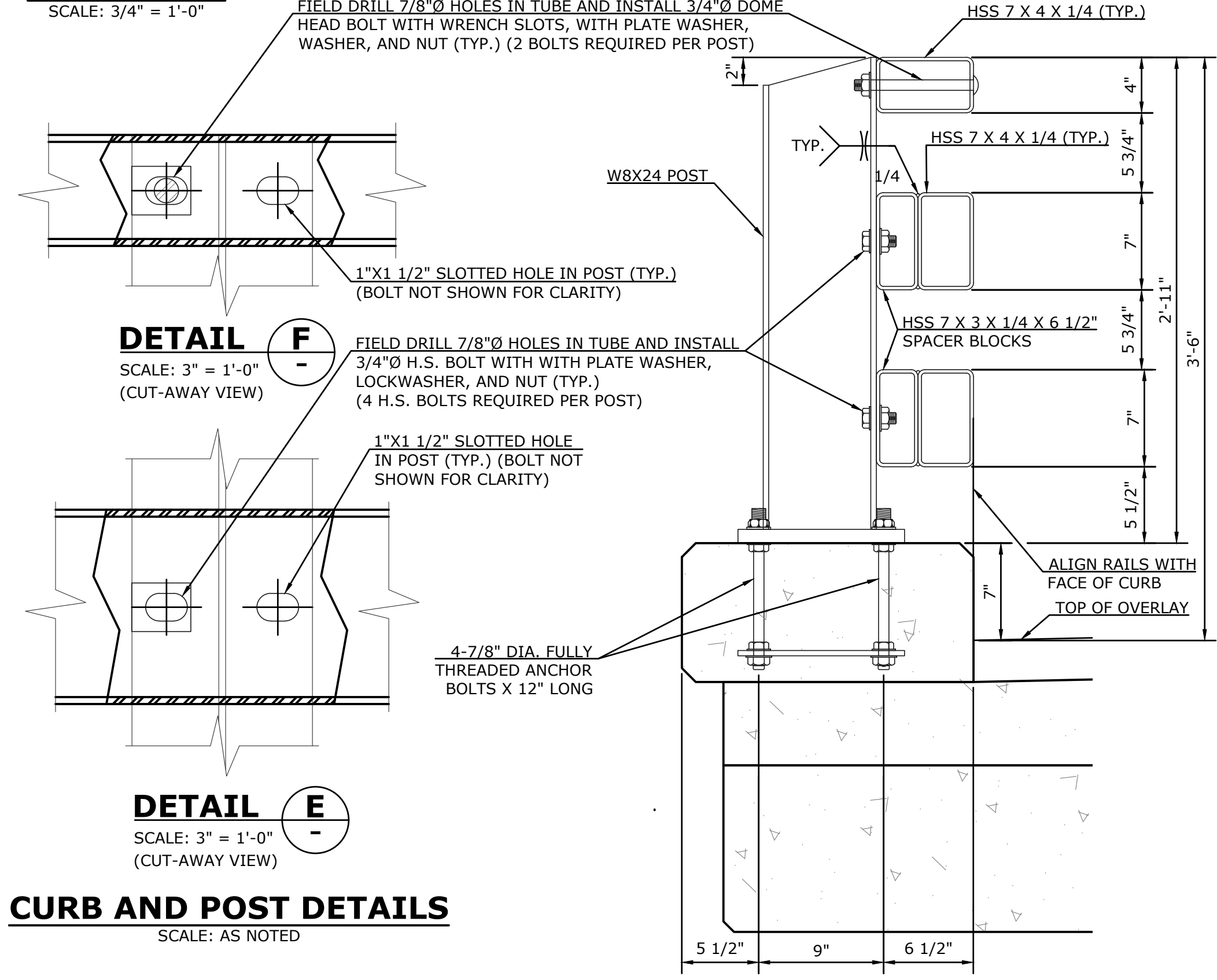
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			DESIGN	K.K.										
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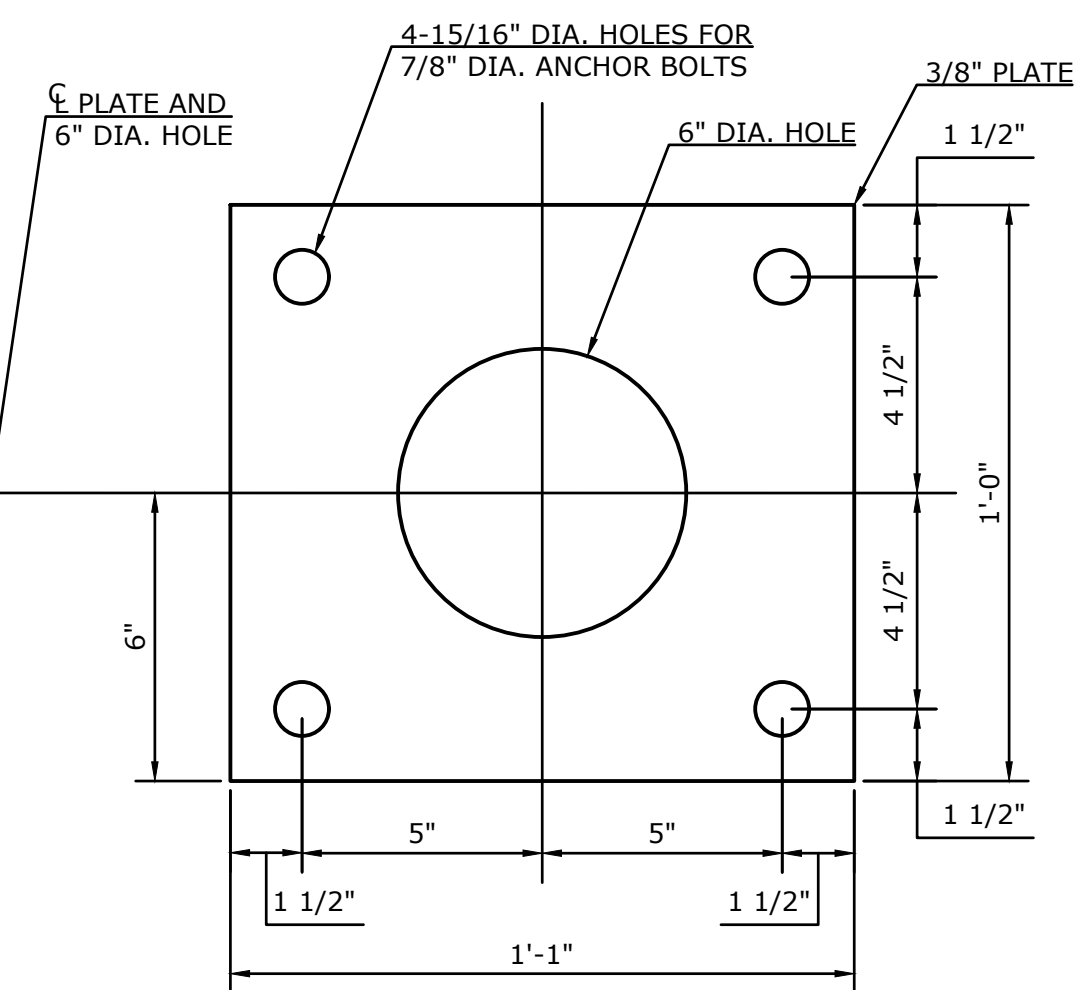
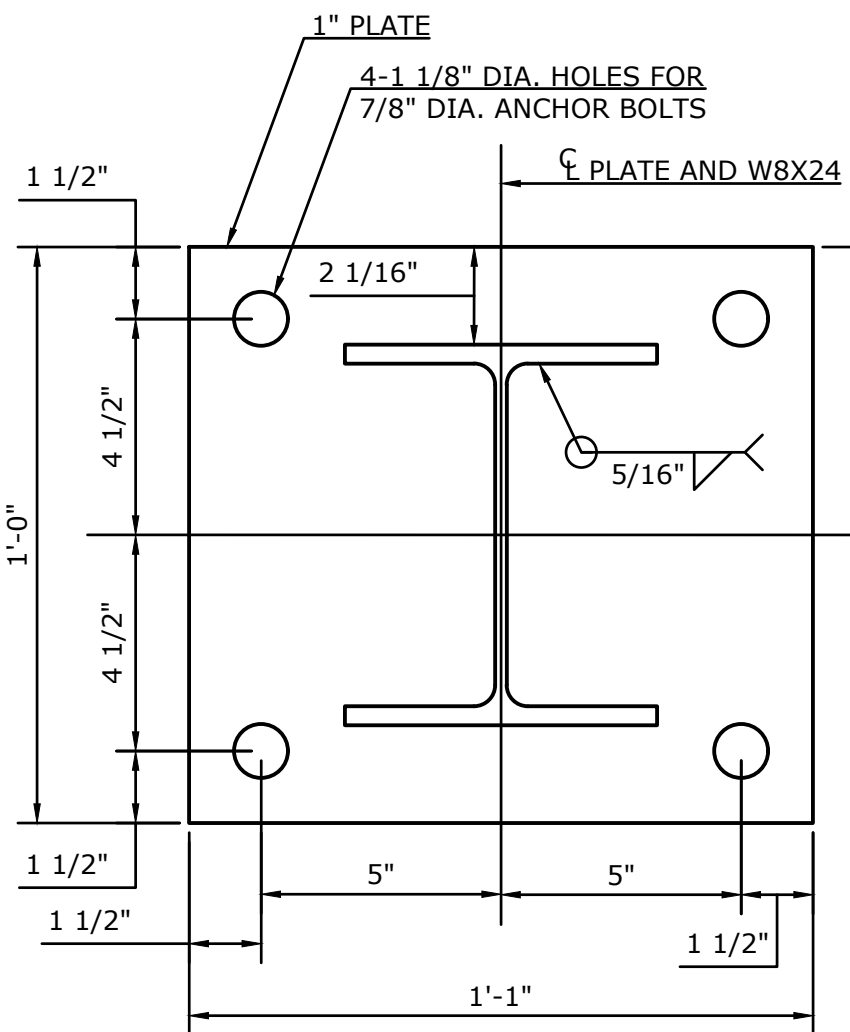
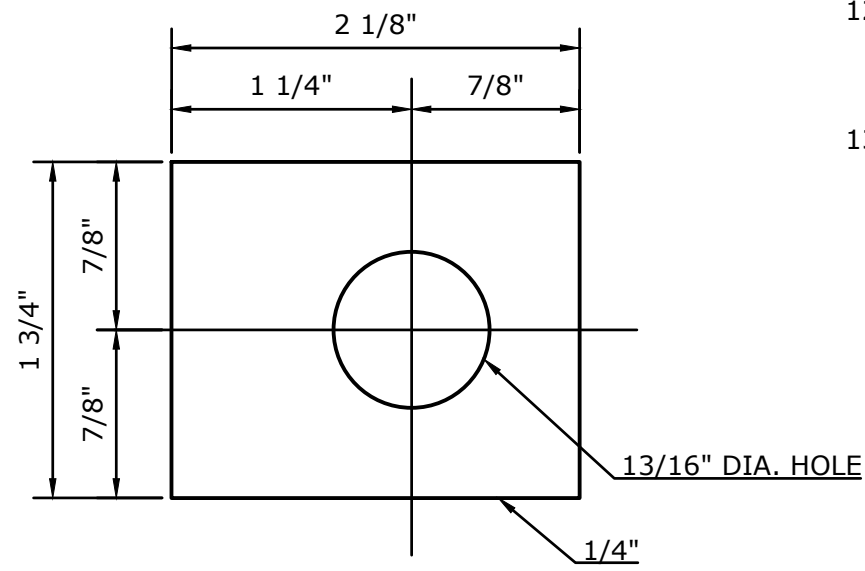
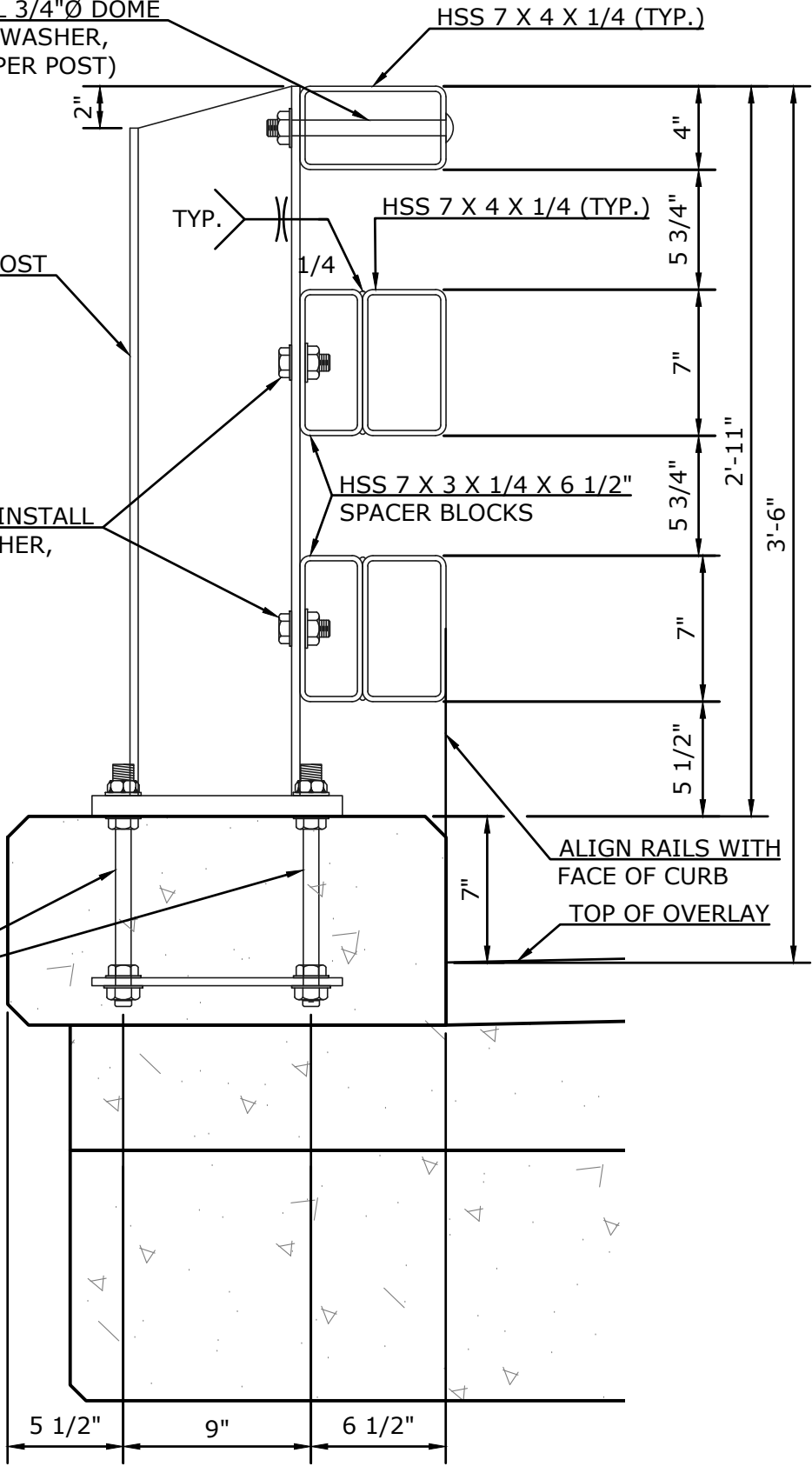
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CURB AND POST DETAILS

SCALE: AS NOTED



BRIDGE RAIL NOTES:

- THE 3-TUBE CURB MOUNTED BRIDGE RAIL HAS BEEN EVALUATED AT TEST LEVEL 4 (TL-4) AND COMPLIES WITH MASH 2016.
- CONCRETE FOR THE CURB AND END WALL SHALL BE CLASS PCC04462. THE COMPRESSIVE STRENGTH OF THE CONCRETE, BASED ON TEST CYLINDERS, SHALL BE NO LESS THAN 4,000 PSI PRIOR TO ALLOWING THE CURB AND END WALL TO BE PLACED INTO SERVICE FOR THE PROTECTION OF VEHICULAR TRAFFIC.
- THE REINFORCEMENT SHALL CONFORM TO ASTM A615, GRADE 60 AND BE HOT DIP GALVANIZED.
- THE 1 IN. DIAMETER PIPE SHALL CONFORM TO ASTM A53, GRADE B OR ASTM A501 AND SHALL BE GALVANIZED IN ACCORDANCE WITH REQUIREMENTS OF ASTM A123.
- HOLLOW STRUCTURAL SHAPES SHALL CONFORM TO ASTM A500 GRADE C OR ASTM A501, GRADE B.
- ALL OTHER STEEL SHALL CONFORM TO ASTM A572, GRADE 50 UNLESS NOTED OTHERWISE.
- THE SILICON CONTENT OF THE STEEL USED FOR THE EXPOSED MEMBERS AND PLATE COMPONENTS SHALL FALL WITHIN THE RANGE OF 0 TO 0.04% OR 0.15% TO 0.25%.
- ALL STEEL SHAPES, PLATES AND HOLLOW STRUCTURAL SECTIONS SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123.
- THE ANCHOR BOLTS SHALL CONFORM TO ASTM F1551, GRADE 105. THE NUTS SHALL CONFORM TO ASTM A563, GRADE DH. THE WASHERS SHALL CONFORM TO ASTM F436. THE BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM F2329.
- ALL HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM F3125 GRADE A325, TYPE 1. NUTS SHALL CONFORM TO ASTM A563, GRADE DH. CIRCULAR FLAT, HARDENED STEEL WASHERS SHALL CONFORM TO ASTM F436. THE BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM F2329 OR ASTM B695, CLASS 55.
- RAIL ELEMENTS SHALL BE FABRICATED TO THE HORIZONTAL AND VERTICAL ALIGNMENT OF THE STRUCTURE. POSTS SHALL BE INSTALLED NORMAL TO GRADE IN THE LONGITUDINAL DIRECTION AND VERTICAL IN THE TRANSVERSE DIRECTION.
- ALL BRIDGE RAIL MATERIALS, INCLUDING ANCHOR PLATES, ANCHOR BOLTS, CONCRETE INSERTS AND HARDWARE, SHALL BE PAID FOR UNDER THE ITEM "3-TUBE CURB MOUNTED BRIDGE RAIL".

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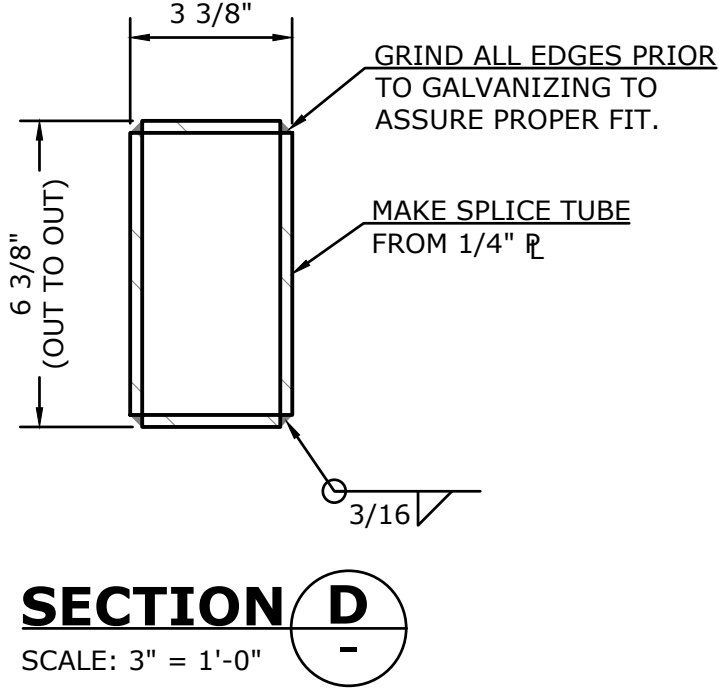
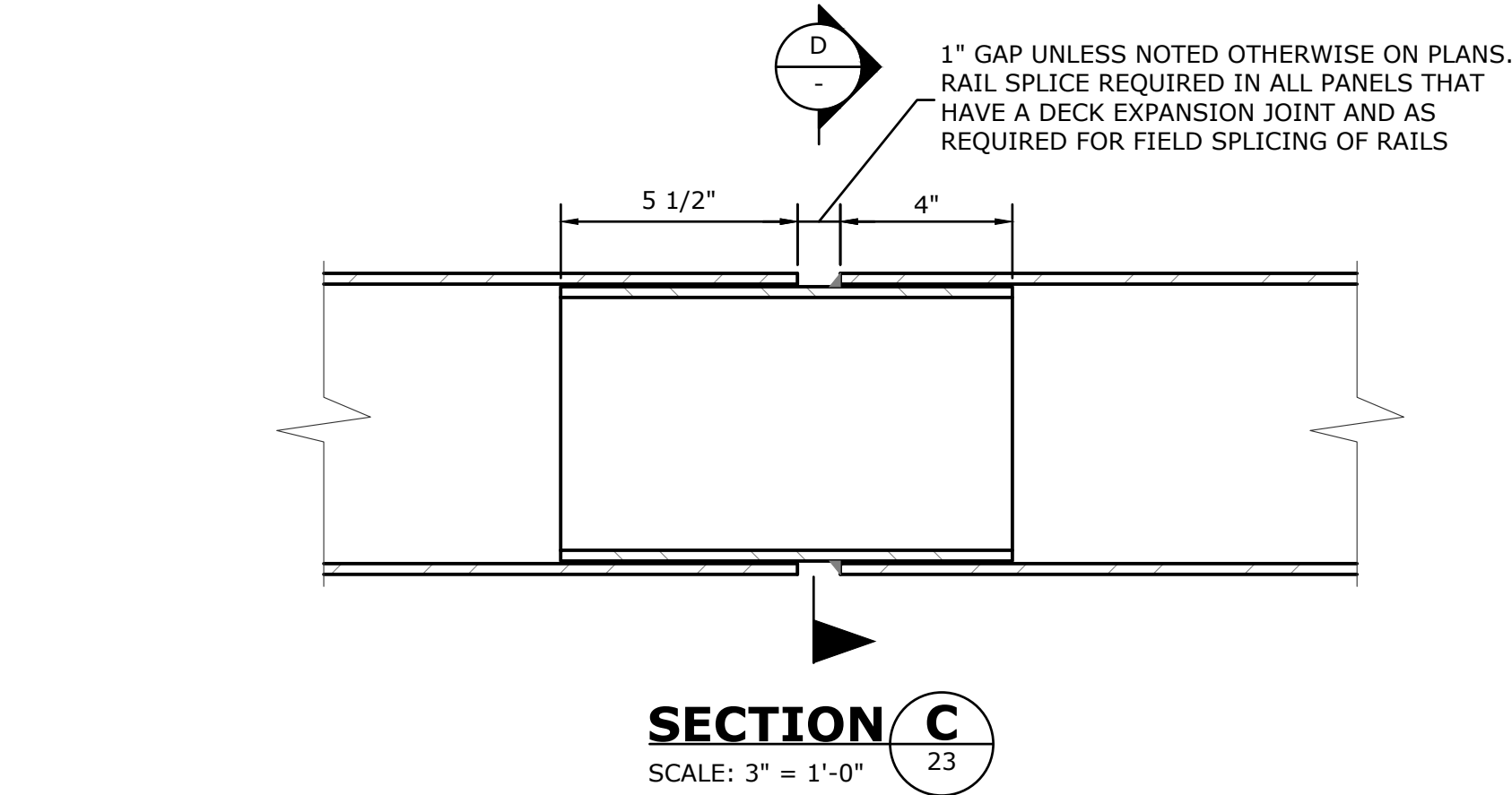
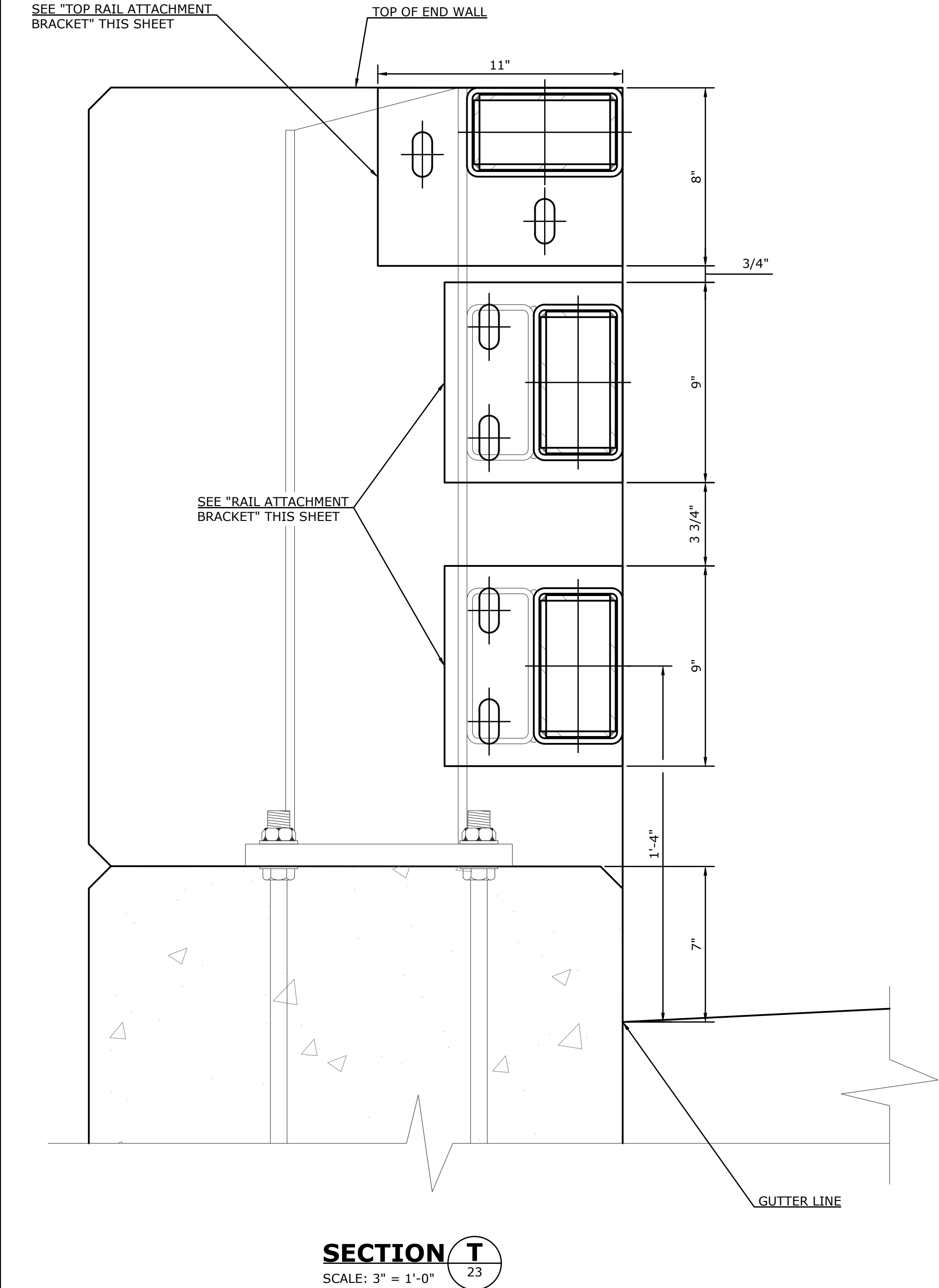
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TOWN OF MONROE
7 FAN HILL ROAD
MONROE, CT 06468

REPLACEMENT OF BRIDGE 04929
JUDD ROAD OVER MILL RIVER
3 TUBE CURB MOUNTED BRIDGE RAIL
DETAILS - 1

D -	JUDD ROAD	-	S.F.D.	-	22007.10	-	SHEET	23
SIZE	PROJECT		FILE NAME		NUMBER		REV.	OF

25



NOTES FOR GUIDE RAIL ATTACHMENTS:

THE 7/8" DIAMETER ANCHOR BOLTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A449.

NUTS SHALL BE HEAVY HEX AND CONFORM TO THE REQUIREMENTS OF ASTM A563, PROPERTY CLASS 10S.

WASHERS SHALL BE CIRCULAR, HARDENED WASHERS CONFORMING TO THE REQUIREMENTS OF ASTM F436.

ALL ANCHOR BOLTS, NUTS, AND WASHERS SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A153.

ANCHOR PLATES SHALL CONFORM TO ASTM A36 AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123.

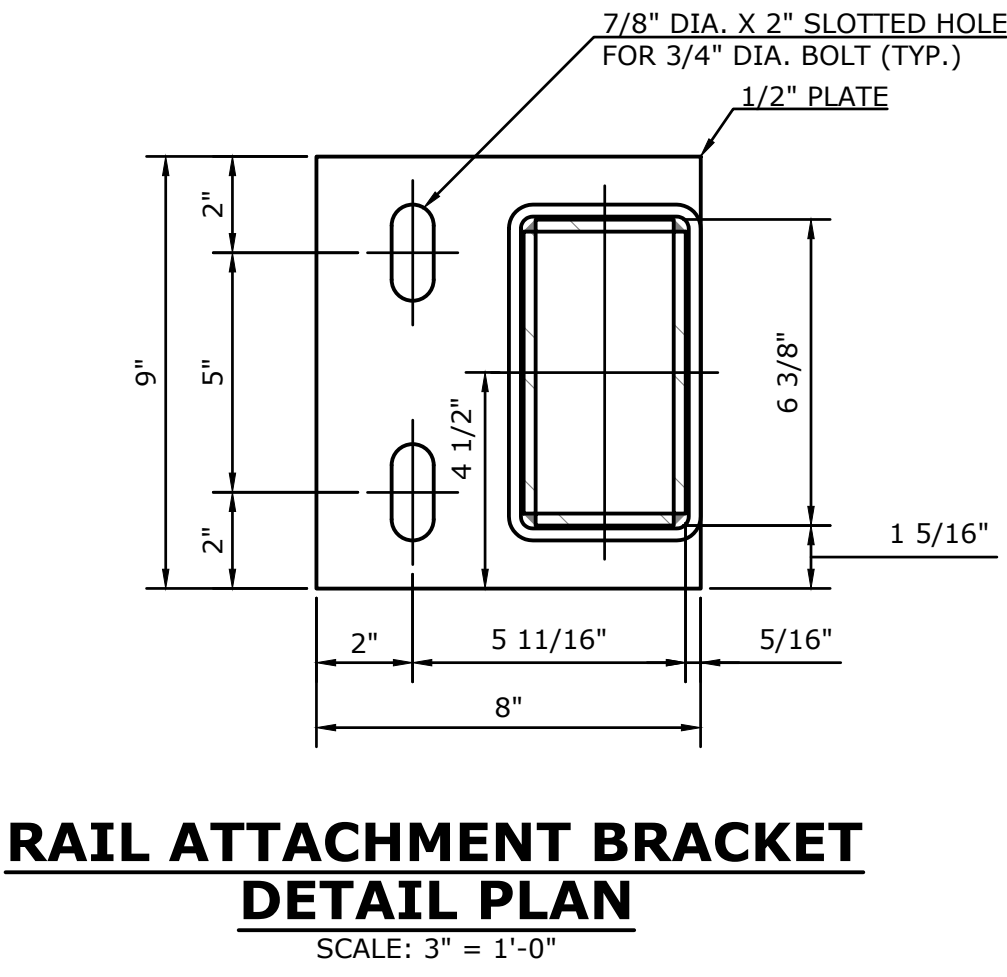
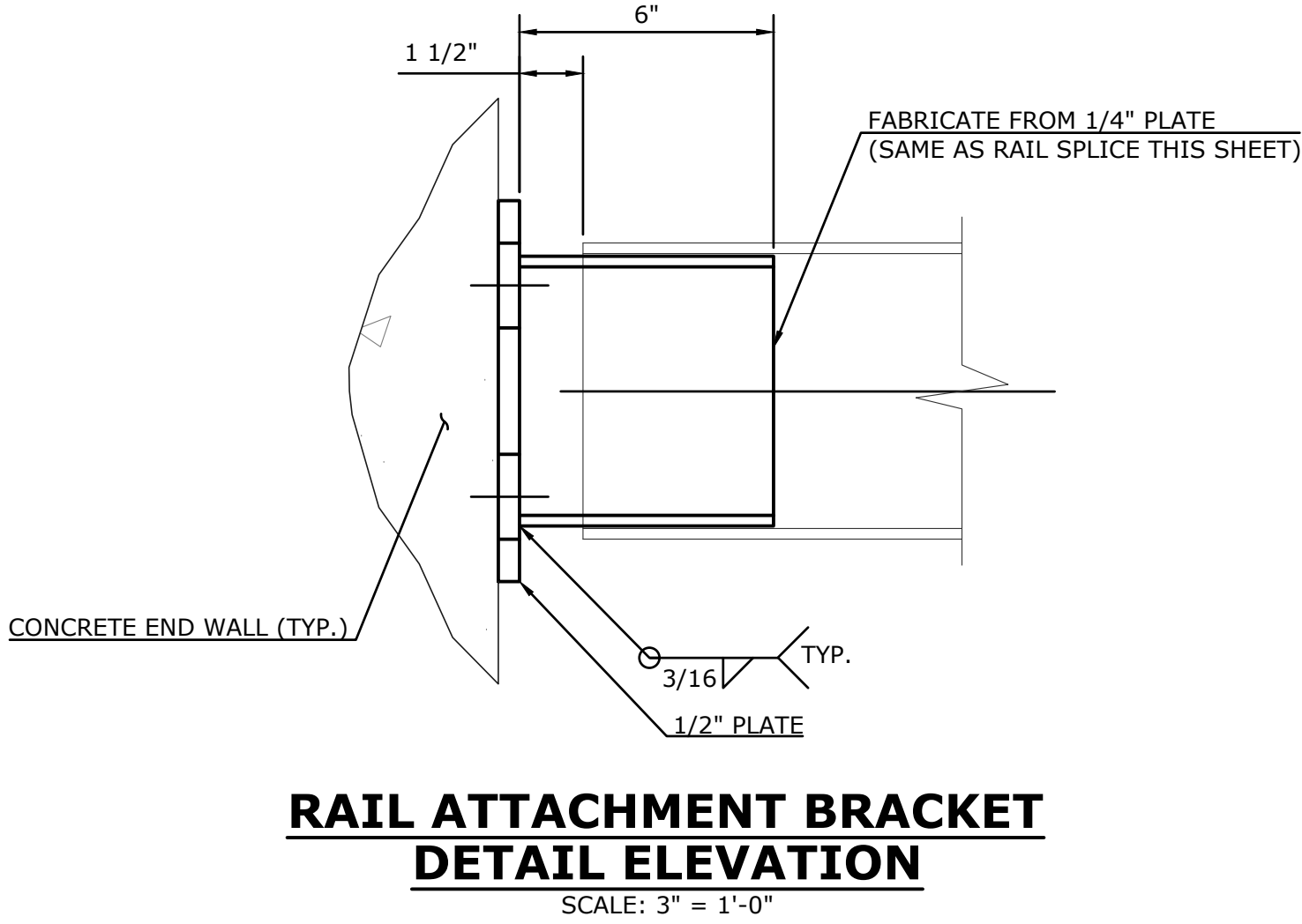
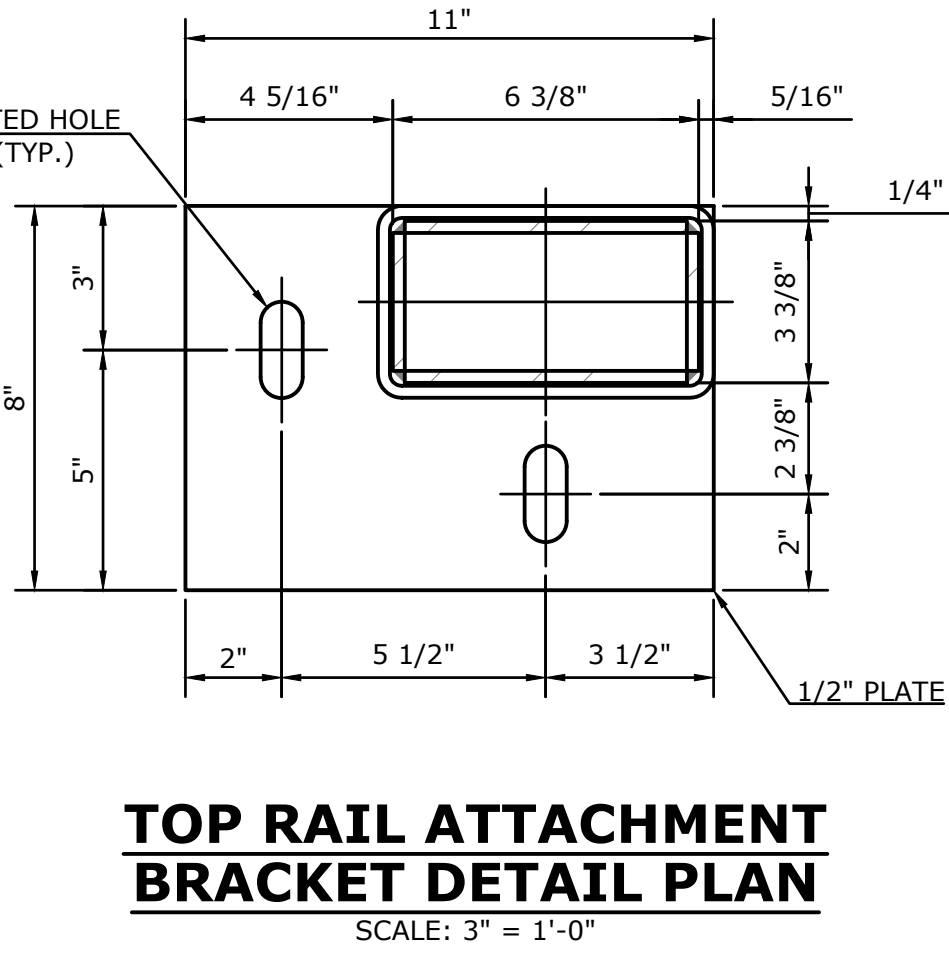
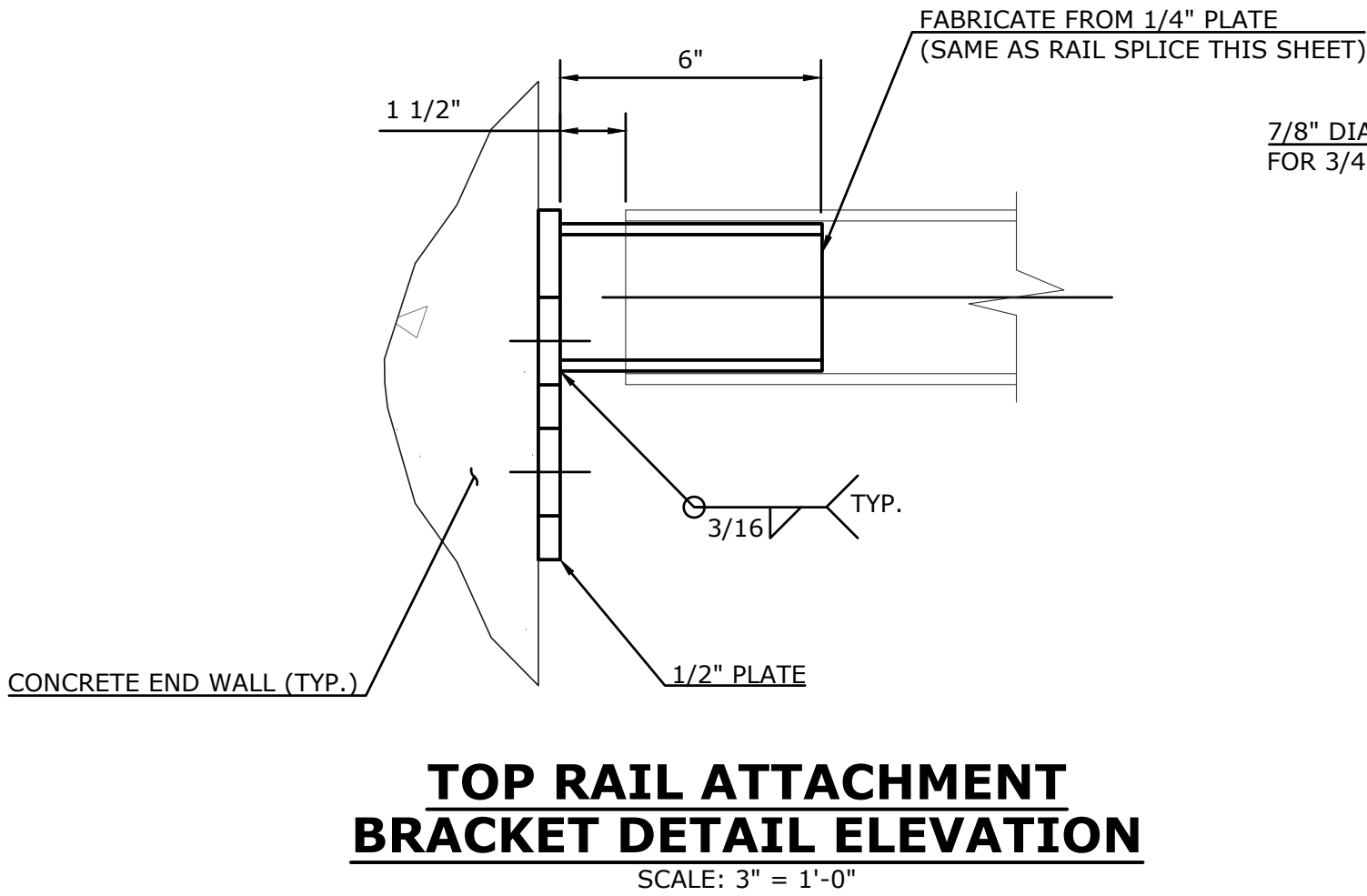
ALL ANCHORAGE MATERIALS-INCLUDING THE ANCHOR PLATES, ANCHOR BOLTS AND HARDWARE SHALL BE INCLUDED FOR PAYMENT UNDER ITEM "THRIE BEAM BRIDGE ATTACHMENT".

CONCRETE INSERTS: *

HOT-DIP GALVANIZED EXPANDED COIL CONCRETE INSERTS WITH CLOSED-BACK INSERTS THREADED TO RECEIVE 3/4" DIA. ASTM A307 BOLTS. MINIMUM INSERT LENGTH = 4"

MINIMUM SAFE WORKING LOAD IN TENSION = 4000 LBS.

AS AN ALTERNATIVE TO CAST IN INSERTS, THE CONTRACTOR MAY FIELD DRILL HOLES IN THE COMPLETED END BLOCKS AND INSTALL A THREADED ROD/NUT SYSTEM TO SECURE THE BRACKETS. DRILLING METHODS SHALL BE BY CORE DRILLING AND SHALL NOT DAMAGE THE CONCRETE. IF THE CONTRACTOR ELECTS TO USE A DRILLED IN SYSTEM HE/SHE SHALL SUBMIT HIS/HER METHODS AND MATERIALS TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION OF THE END BLOCKS. ALL MATERIALS SHALL MEET OR EXCEED THE REQUIREMENTS INDICATED FOR THE CONCRETE INSERTS.



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TOWN OF MONROE

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MONROE, CT 06468

REPLACEMENT OF BRIDGE 04929
JUDD ROAD OVER MILL RIVER
3 TUBE CURB MOUNTED BRIDGE RAIL
DETAILS - 2

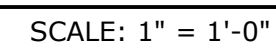
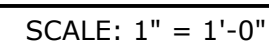
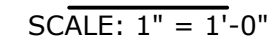
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SIZE	PROJECT		FILE NAME		NUMBER	REV.	OF	25

ALL ANCHORAGE MATERIALS-INCLUDING THE ANCHOR PLATES, ANCHOR BOLTS AND HARDWARE SHALL BE INCLUDED FOR PAYMENT UNDER ITEM "THRIE BEAM BRIDGE ATTACHMENT".

HOT-DIP GALVANIZED EXPANDED COIL CONCRETE INSERTS WITH
CLOSED-BACK INSERTS THREADED TO RECEIVE 3/4" DIA. ASTM A307 BOLTS.
MINIMUM INSERT LENGTH = 4"
MINIMUM SAFE WORKING LOAD IN TENSION = 4000 LBS.

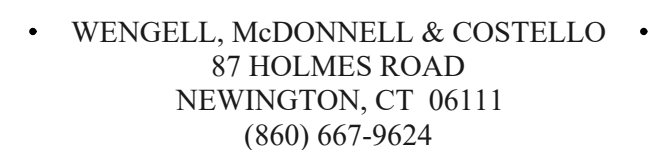
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BRIDGE IDENTIFICATION PLACARDS:
THE CONTRACTOR SHALL PROVIDE AND INSTALL NEW BRIDGE IDENTIFICATION SIGNS AT THE LEADING END OF EACH WINGWALL ON THE TRAFFIC SIDE. THE SIGNS SHALL BE FABRICATED WITH 40 GAUGE ALUMINUM SHEET METAL. THE SIGNS SHALL BE 14" X 12" WITH 3" WHITE REFLECTIVE BLOCK LETTERS ON GREEN REFLECTIVE SHEETINGS. EACH SIGN SHALL READ "04929". ALL COST ASSOCIATED WITH PROVIDING AND INSTALLING THE BRIDGE SIGNS SHALL BE COVERED UNDER ITEM #1208931A - SIGN FACE - SHEET ALUMINUM (TYPE IX RETROREFLECTIVE SHEETING). THE FINAL LOCATION AND ATTACHMENT METHOD FOR THE SIGNS SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.



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MONROE, CT 06468

REPLACEMENT OF BRIDGE 04929
JUDD ROAD OVER MILL RIVER
THRIE-BEAM ATTACHMENT DETAILS

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SIZE	PROJECT		FILE NAME		NUMBER	REV.

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