

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



LISBON
ANDROSCOGGIN COUNTY
LISBON CENTER BRIDGE
OVER
SABATTUS RIVER
MILL STREET
STATE PROJECT NO. 18970.00
PROJECT LENGTH 0.080 mi.
BRIDGE NO. 5007

SPECIFICATIONS

Design: Load and Resistance Factor Design per AASHTO LRFD Bridge Design Specifications, Seventh Edition with interims through 2016.

TRAFFIC DATA

Current (2017) AADT	860
Future (2037) AADT	1030
DHV - % of AADT	20%
Design Hour Volume	206
Heavy Trucks (% of AADT)	6%
Heavy Trucks (% of DHV)	4%
Directional Distribution (% of DHV)	52%
18 kip Equivalent P 2.0	25
18 kip Equivalent P 2.5	24
Design Speed (mph)	25

DESIGN LOADING

Live Load..... HL - 93 Modified for Strength I

HYDROLOGIC DATA

Drainage Area	73.4 sq mi
Design Discharge (Q50)	3,198 cfs
Check Discharge (Q100)	3,627 cfs
Headwater Elevation (Q50)	152.14 ft
Headwater Elevation (Q100)	152.42 ft
Discharge Velocity (Q50)	3.87 fps
Discharge Velocity (Q100)	4.25 fps
Headwater Elevation (Q1.1)	149.28 ft
Headwater Elevation (Q25)	151.75 ft

MATERIALS

Concrete:	
Curb, Sidewalk & Transition Barriers	Class "LP"
Precast NEBT Beams	Class "P"
All Other	Class "A"
Reinforcing:	
Plain Reinforcing Steel	ASTM A 615/A 615M, Grade 60
Stainless Reinforcing Steel	ASTM A 955, Grade 75
Glass Fiber Reinforced Polymer (GFRP)	CSA S807-10, ACI 440.1R-15
Prestressing Strands	AASHTO M203 (ASTM A416) Grade 270, Low Relaxation
Structural Steel:	
All Material (except as noted)	ASTM A 709, Grade 50
Anchor Rods	ASTM F1554

BASIC DESIGN STRESSES

Concrete, Class "A"	f 'c = 4,000 psi
Concrete, Class "LP"	f 'c = 5,000 psi
Concrete, Class "P"	f 'c = 8,000 psi
	f 'ci = 6,500 psi
Plain Reinforcing Steel	f y = 60,000 psi
Stainless Reinforcing Steel	f y = 75,000 psi
Glass Fiber Reinforced Polymer:	
#5 Bar	F μ = 95,000 psi
#6 Bar	F μ = 90,000 psi
#7 Bar	F μ = 85,000 psi
#8 Bar	F μ = 80,000 psi
Minimum Elastic Modulus	5,700,000 psi
Prestressing Strand	F μ = 270,000 psi
Structural Steel:	
ASTM A 709, Grade 50	F y = 50,000 psi
ASTM F1554	F y = 55,000 psi

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UTILITIES

Central Maine Power Company
Charter Communications
Fairpoint Communications

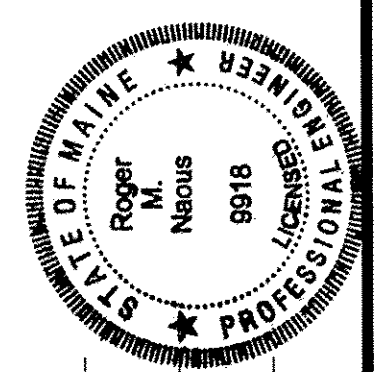
Lisbon Water District
Unitil Corporation

MAINTENANCE OF TRAFFIC

Bridge/Road closure with detour on Route 196, Village Street, and Upland Road.

PROJECT LOCATION:	On Mill Street, located 0.1 miles from State Route 196. Latitude 44° 01'16" N, Longitude 70° 05'32" W
PROGRAM AREA:	Bridge
OUTLINE OF WORK:	Bridge Replacement with 390 feet of approach work.

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
	COMMISSIONER	4/23/18
	CHIEF ENGINEER	4-24-18



SIGNATURE	P.E. NUMBER	DATE
9218	9918	APR 19 2018

PROJECT INFORMATION	
PROGRAM	BRIDGE
PROJECT MANAGER	JOEL MITCHELL
DESIGNER	ROGER NATUS, P.E.
CONSULTANT	
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

LISBON LISBON CENTER BRIDGE	TITLE SHEET
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SHEET NUMBER
1
OF 53

Date:4/10/2018

Username:

Division:

Filename: 001_Title.dgn

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
202.15	Removing Existing Manhole or Catch Basin	2	EA
202.19	Removing Existing Bridge	1	LS
202.202	Removing Pavement Surface	100	SY
203.20	Common Excavation	500	CY
203.2312	Health and Safety Plan	1	LS
203.2341	Disposal of Contaminated Soil	210	TON
203.24	Common Borrow	150	CY
203.25	Granular Borrow	500	CY
206.07	Structural Rock Excavation	50	CY
206.082	Structural Earth Excavation - Major Structures, Plan Quantity	1,400	CY
304.10	Aggregate Subbase Course - Gravel	480	CY
403.208	Hot Mix Asphalt, 12.5 mm Nominal Maximum Size	103	TON
403.209	Hot Mix Asphalt, 9.5 mm Nominal Maximum Size (sidewalks, drives, islands & incidentals)	30	TON
403.213	Hot Mix Asphalt, 12.5 mm Nominal Maximum Size (Base and Intermediate Base course)	160	TON
409.15	Bituminous Tack Coat, Applied	50	GAL
502.219	Structural Concrete, Abutments and Retaining Walls (230 CY)	1	LS
502.22	Structural Concrete, Abutments and Retaining Walls (placed under water)	340	CY
502.261	Structural Concrete Roadway and Sidewalk Slab on Concrete Bridges (101 CY)	1	LS
502.291	Saw Cut Grooving (2400 SF)	1	LS
502.49	Structural Concrete Curbs and Sidewalks (23 CY)	1	LS
503.12	Reinforcing Steel, Fabricated and Delivered	17,700	LB
503.13	Reinforcing Steel, Placing	17,700	LB
503.26	Stainless Steel Reinforcement, Fabricated and Delivered	10,700	LB
503.27	Stainless Steel Reinforcement, Placing	10,700	LB
507.0821	Steel Bridge Rail, 3 Bar (81 LF)	1	LS
507.0831	Steel Bridge Rail, 4 Bar (81 LF)	1	LS
511.07	Cofferdam: Abutment #1	1	LS
511.07	Cofferdam: Abutment #2	1	LS
514.06	Curing Box for Concrete Cylinders	1	EA
515.21	Protective Coating for Concrete Surfaces (510 SY)	1	LS
526.301	Temporary Concrete Barrier, Type 1 (40 LF)	1	LS
526.34	Permanent Concrete Transition Barrier	4	EA
530.30	GFRP, Fabricated and Delivered	23,400	LF
530.31	GFRP, Placing	23,400	LF
535.61	Prestressed Structural Concrete I-Girders (352 LF)	1	LS
603.179	18 inch Culvert Pipe Option III	136	LF
604.092	Catch Basin Type B1-C	2	EA
604.2402	Behind Curb Catch Basin	2	EA
604.262	Catch Basin Type B5-C	2	EA
605.09	6 inch Underdrain Type B	150	LF
605.11	12 inch Underdrain Type C	170	LF
605.12	15 inch Underdrain Type C	130	LF
606.1721	Bridge Transition - Type 1	3	EA
606.1721	Bridge Transition - Type 1 - Modified	1	EA
606.23	Guardrail Type 3c - Single Rail	37.5	LF
606.231	Guardrail Type 3c - 15 ft radius and less	25	LF
606.2591	Anchorage Assembly	1	EA
606.265	Terminal End-Single Rail - Galvanized Steel	1	EA
606.353	Reflectorized Flexible Guardrail Marker	6	EA
606.78	Low Volume Guardrail End - Type 3	2	EA
607.24	Remove and Reseal Fence	30	LF
608.26	Curb Ramp Detectable Warning Field	10	SF
609.31	Curb Type 3	500	LF
610.08	Plain Riprap	190	CY
610.18	Stone Ditch Protection	4	CY
613.319	Erosion Control Blanket	41	SY
615.07	Loom	34	CY
618.14	Seeding Method Number 2	4	UN
618.141	Seeding Method Number 3	3	UN
619.12	Mulch	7	UN
619.14	Erosion Control Mix	34	CY
620.58	Erosion Control Geotextile	290	SY
620.661	Drainage Geocomposite	130	SY
627.733	4" White or Yellow Painted Pavement Marking Line	550	LF
629.05	Hand Labor, Straight Time	50	HR
631.12	All Purpose Excavator (including operator)	25	HR
631.14	Grader (including operator)	25	HR
631.15	Roller, Earth and Base Course (including operator)	25	HR
631.172	Truck-large (including operator)	25	HR
631.231	Crane - 45 Ton Capacity (including operator)	100	HR
637.071	Dust Control	1	LS
639.18	Field Office, Type A	1	EA
652.312	Type III Barricades	8	EA
652.33	Drum	25	EA
652.34	Cone	25	EA
652.35	Construction Signs	240	SF
652.361	Maintenance of Traffic Control Devices (160 CD)	1	LS
652.38	Flaggers	240	HR
656.75	Temporary Soil Erosion and Water Pollution Control	1	LS
659.10	Mobilization	1	LS

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
822.363	12" Class 52 Ductile Iron Pipe	400	LF
827.33	Trench Insulation	100	LF
827.362	Gas Main Trenching	400	LF
830.10	Water Main Bridge Crossing	1	LS
830.16	Gas Main Bridge Crossing Hanger System	1	LS
890.01	Special Work No.1, Water Connection	1	LS
890.021	Special Work No.2, Water Connection	1	LS

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN18970.00

BRIDGE NO. 500718970.00BRIDGE PLANS

LISBON CENTER BRIDGE
SABATTUS RIVER
LISBON ANDROSCOGGIN

ESTIMATED QUANTITIES

SHEET NUMBER

2

OF 53

PROJ. MANAGER	J. Kittredge	BY	DATE
DESIGN-DETAILED	R. Nodus	HNTB	12/17
CHECKED-REVIEWED	HNTB		12/17
DESIGN-DETAILED			
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

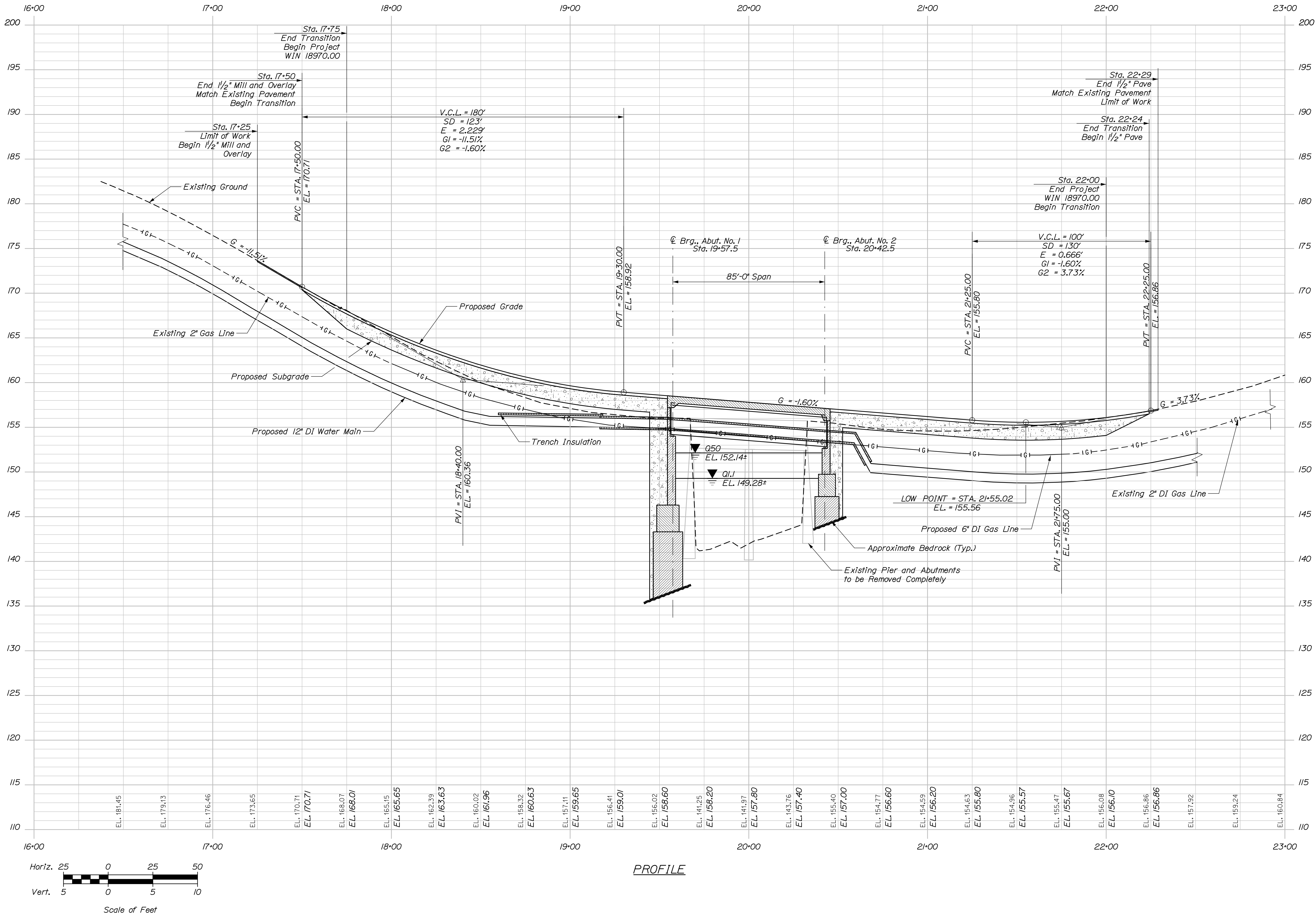
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Date:4/10/2018

Username:

Division:

Filename: 005_Profile.dgn



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 18970.00

BRIDGE NO. 5007

LISBON CENTER BRIDGE
SABATTUS RIVER
ANDROSCOGGIN

LISBON

PROFILE

SHEET NUMBER

5

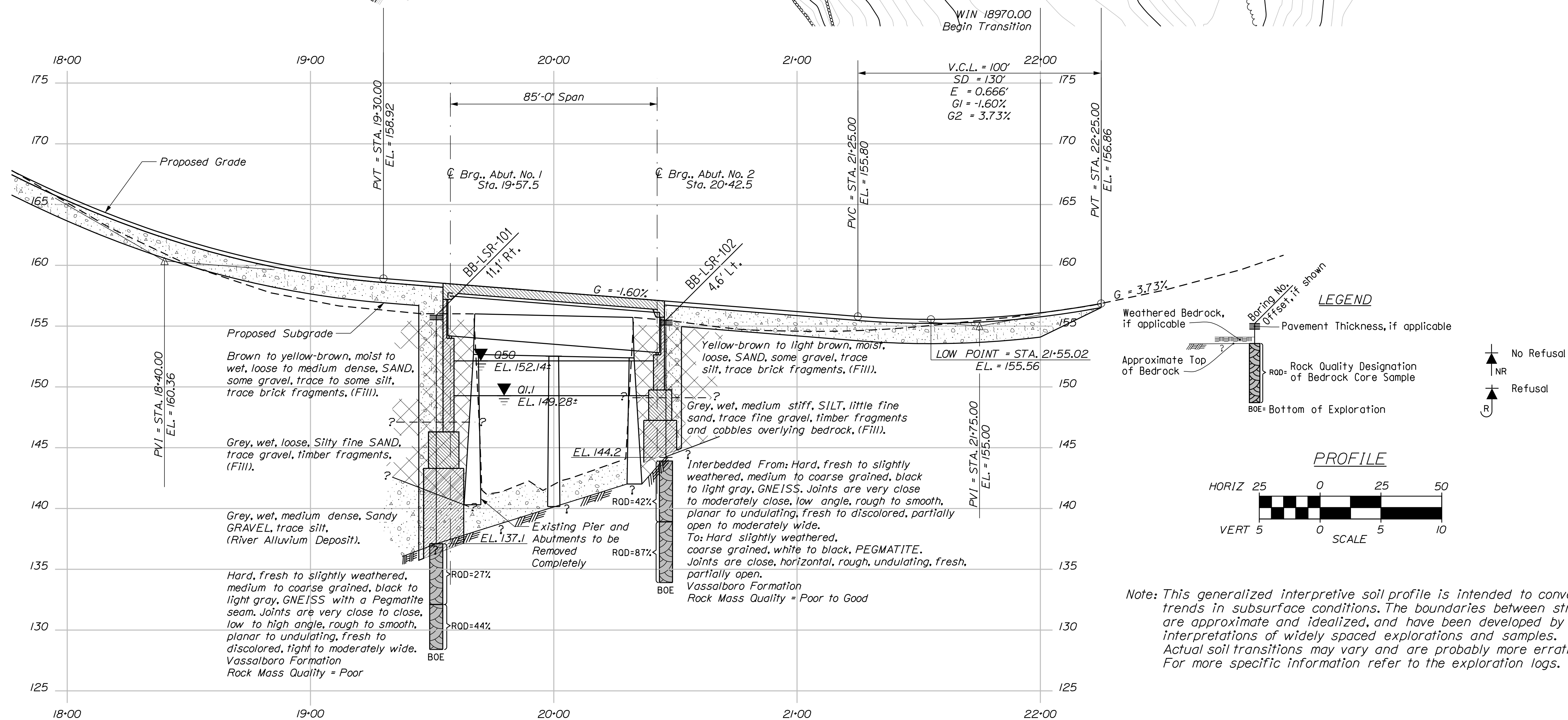
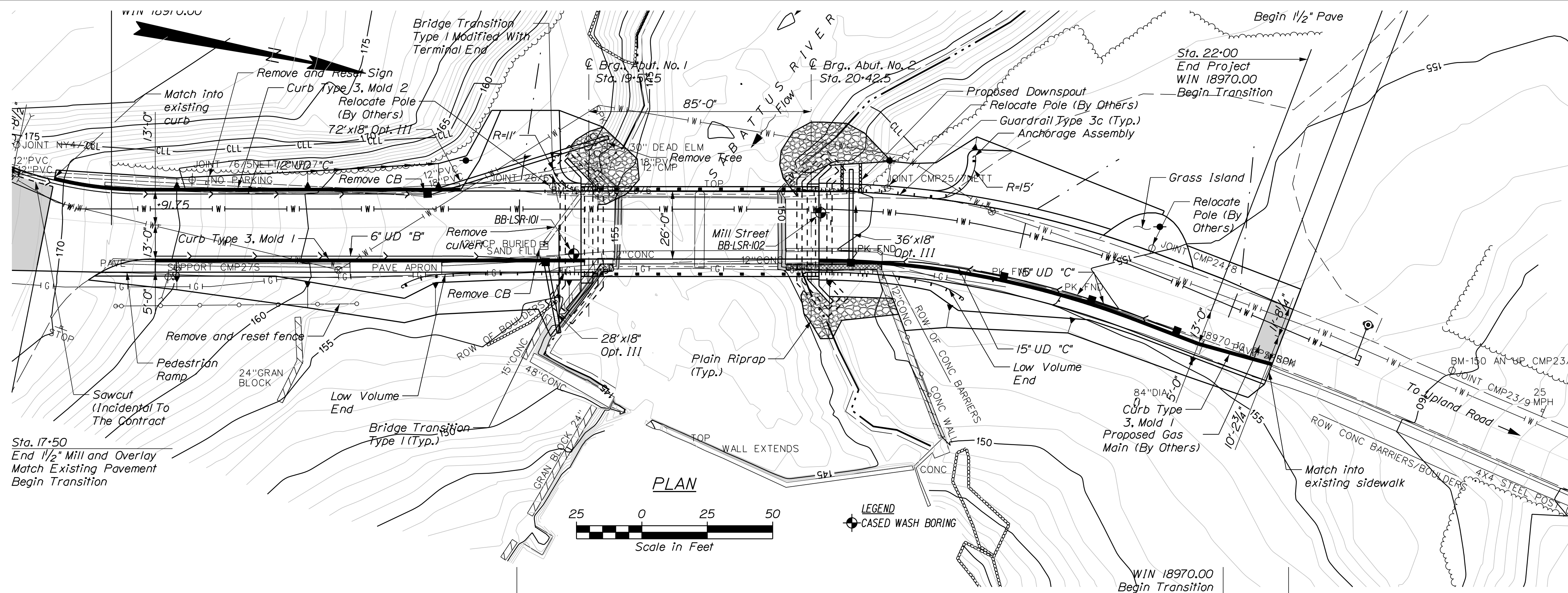
OF 53

PROJ. MANAGER	J. Kirtledge	BY	DATE
DESIGN-DETAILED	R. Nious	DATE	12/17
CHECKED-REVIEWED	HNTB	DATE	12/17
DESIGN-DETAILED	-	DATE	-
DESIGN-DETAILED	-	DATE	-
REVISIONS 1	-	DATE	-
REVISIONS 2	-	DATE	-
REVISIONS 3	-	DATE	-
REVISIONS 4	-	DATE	-
FIELD CHANGES	-	DATE	-

SIGNATURE

P.E. NUMBER

DATE



Note: This generalized interpretive soil profile is intended to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized, and have been developed by interpretations of widely spaced explorations and samples. Actual soil transitions may vary and are probably more erratic. For more specific information refer to the exploration logs.

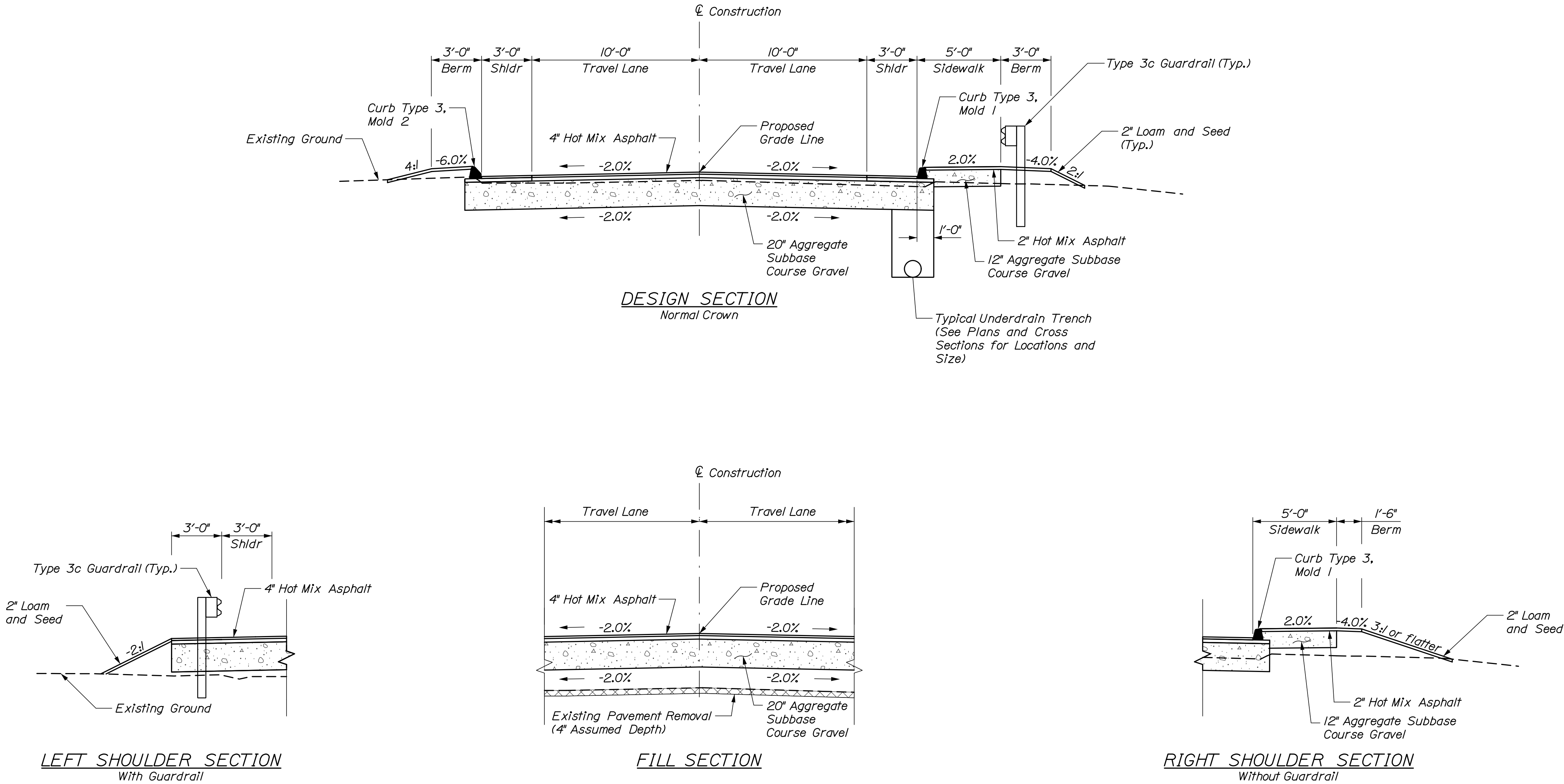
Maine Department of Transportation				Project: Lagoon Center Bridge (No. 5007)		Boring No.: BB-LSR-102	
Soil/Rock Exploration Log				corries Mill Street over the Lagoon in Lisbon, Maine		WIN: 18970.00	
US CUSTOMARY UNITS							
Driller(s): MainRoad		Elevation (ft.): 155.5		Auger 10/001		5'-10" (diameter) Solid Steel	
Operator: T. Daguerre, A. Burpee		Datum: NAVD 83		Sampler:		Standard Split Spoon	
Logged By: B. Wilder		Rip Type: CME 45C		Moisture (w/air):		140 pounds/30 inches	
Date Started/Finish: 7/20/2016 07:00-11:00		Drilling Method(s): Cased Wash Boring		Core Barrel(s):		N02 12'-10" (diameter)	
Boring Location: Sta 2046.1, 4.6 ft L.T.		Casing 10/001: NW 13/3.5 inches		Water Level(s):		Not Encountered	
Hammer Efficiency Factor(s): 0.943		Hammer Type(s): Automatic ☐ Hydraulic ☐		Rope & Catch(s):			
Penetration: S = Split Spoon Sample M = Unsuccessful Split Spoon Sample Attempt F = Failed Hole Test M = Unsuccessful Hole Test F = Failed Hole Test M = Unsuccessful Hole Test		R = Rock Core Sample S = Solid Steel Auger H = Hammer Core M = Weight of 140 lbs. W = Weight of Rope or Casing M = Weight of the Force		S = Feet/Blow T = Tons S = Feet/Blow T = Tons S = Feet/Blow T = Tons S = Feet/Blow T = Tons		R = Rock Core Sample S = Solid Steel Auger H = Hammer Core M = Weight of 140 lbs. W = Weight of Rope or Casing M = Weight of the Force	
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S = Split Spoon Sample M = Unsuccessful Split Spoon Sample Attempt F = Failed Hole Test M = Unsuccessful Hole Test F = Failed Hole Test M = Unsuccessful Hole Test		R = Rock Core Sample S = Solid Steel Auger H = Hammer Core M = Weight of 140 lbs. W = Weight of Rope or Casing M = Weight of the Force		S = Feet/Blow T = Tons S = Feet/Blow T = Tons S = Feet/Blow T = Tons S = Feet/Blow T = Tons		R = Rock Core Sample S = Solid Steel Auger H = Hammer Core M = Weight of 140 lbs. W = Weight of Rope or Casing M = Weight of the Force	
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S = Split Spoon Sample M = Unsuccessful Split Spoon Sample Attempt F = Failed Hole Test M = Unsuccessful Hole Test F = Failed Hole Test M = Unsuccessful Hole Test		R = Rock Core Sample S = Solid Steel Auger H = Hammer Core M = Weight of 140 lbs. W = Weight of Rope or Casing M = Weight of the Force		S = Feet/Blow T = Tons S = Feet/Blow T = Tons S = Feet/Blow T = Tons S = Feet/Blow T = Tons		R = Rock Core Sample S = Solid Steel Auger H = Hammer Core M = Weight of 140 lbs. W = Weight of Rope or Casing M = Weight of the Force	
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Date:4/10/2018

Username:

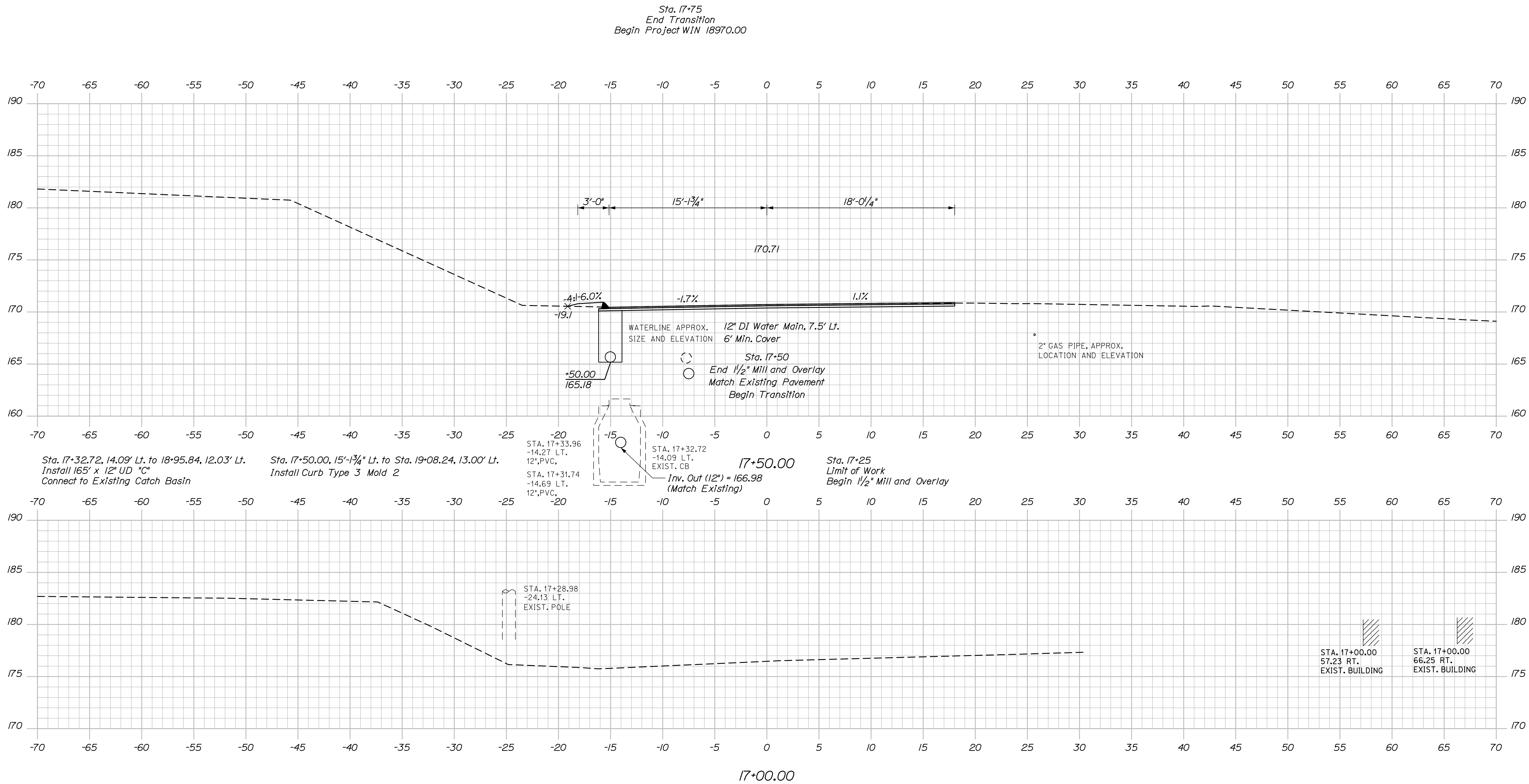
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	DATE	BY	PROJ. MANAGER	J. Kittredge	DATE	SIGNATURE	P.E. NUMBER	
	12/17	HNIB	DESIGNED-DETAILED	R. Nious	12/17		DATE	
TYPICAL SECTIONS				DESIGNED-REVIEWED	HNIB	-	-	
				DESIGNED-DETAILED	HNIB	-	-	
				DESIGNED-DETAILED	HNIB	-	-	
				REVISIONS 1	-	-	-	
				REVISIONS 2	-	-	-	
SHEET NUMBER				REVISIONS 3	-	-	-	
8				REVISIONS 4	-	-	-	
OF 53				FIELD CHANGES	-	-	-	

Filename: XSect.dgn

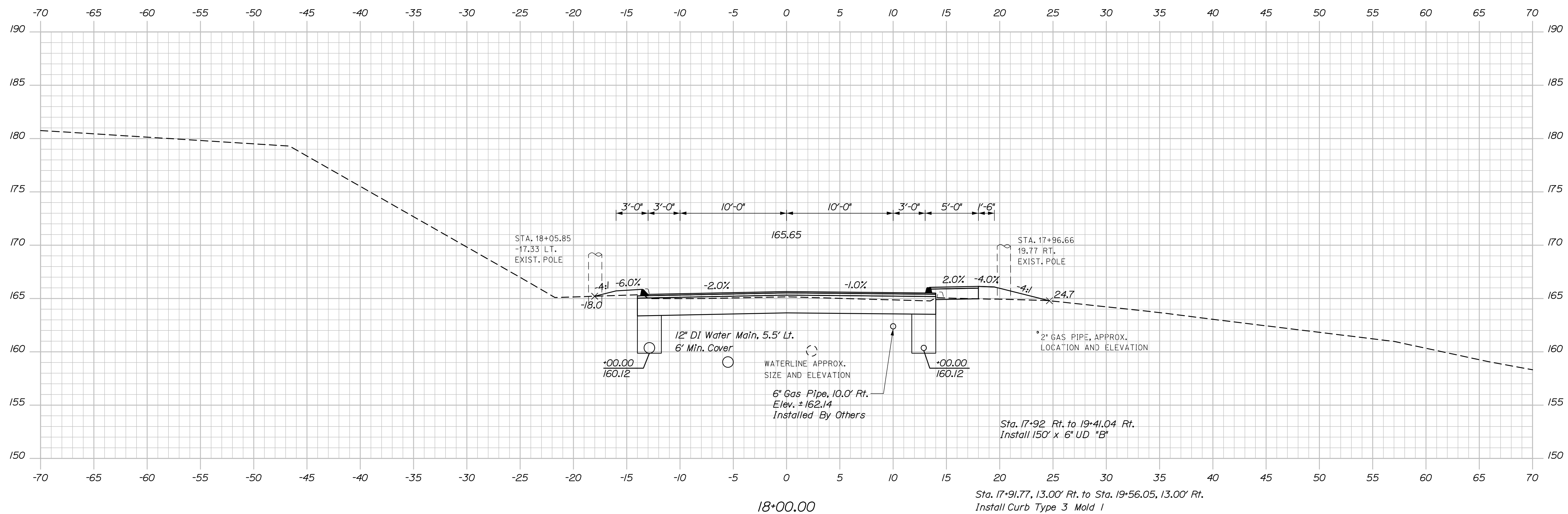
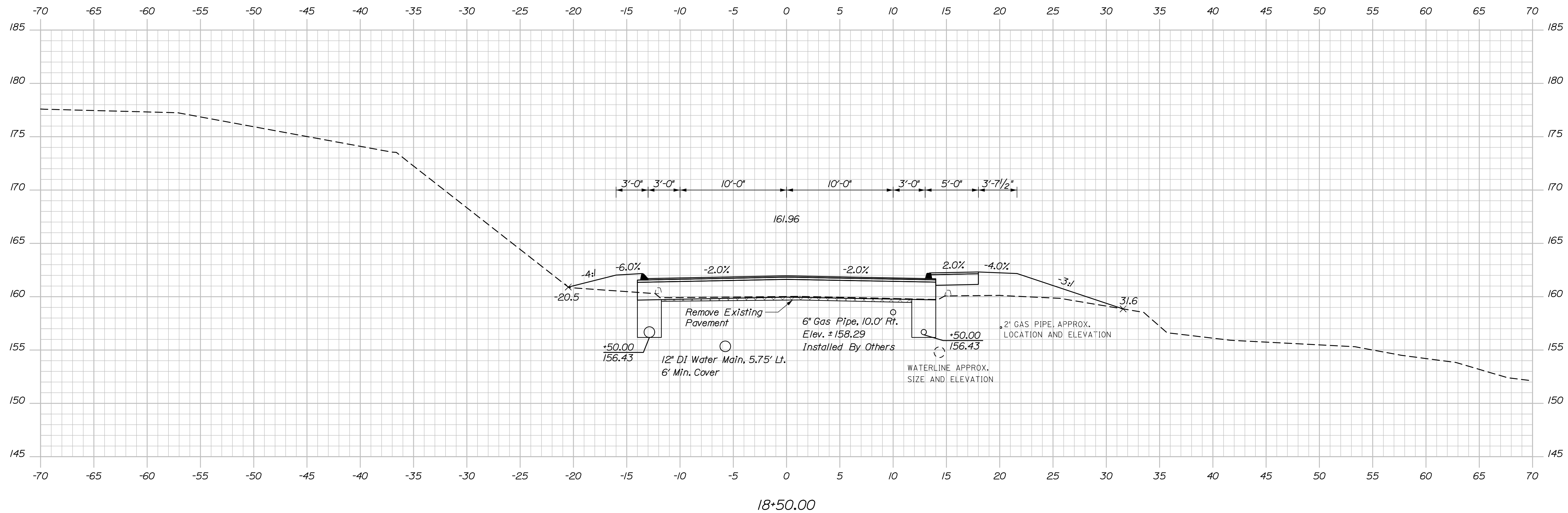


Sta. 17+00.00 to Sta. 17+50.00

BRIDGE PLANS

SHEET NUMBER

OF 53



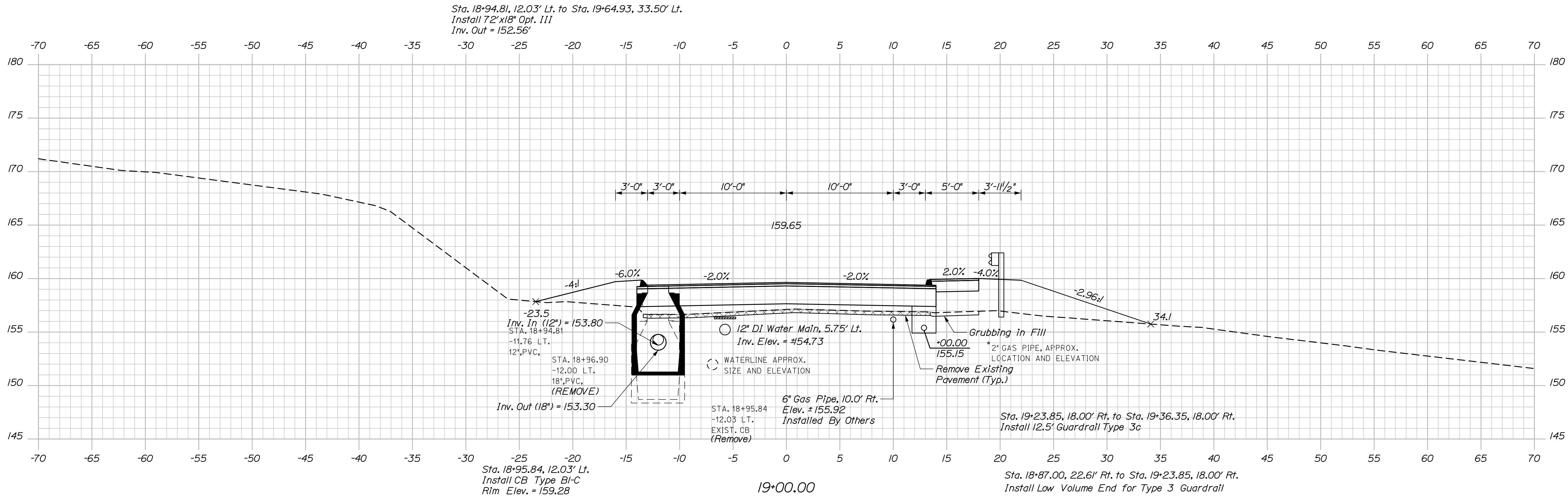
STATE OF MAINE DEPARTMENT OF TRANSPORTATION	WIN 18970.00
BRIDGE NO. 5007	BRIDGE PLANS

PROJ. MANAGER	J. Kittredge	BY	DATE
DESIGN-DETAILED	R. Nooris	HNTB	12/17
CHECKED-REVIEWED	HNTB	-	12/17
DESIGN2-DETAILED2	-	-	SIGNATURE
DESIGN3-DETAILED3	-	-	
REVISIONS 1	-	-	
REVISIONS 2	-	-	
REVISIONS 3	-	-	P.E. NUMBER
REVISIONS 4	-	-	
FIELD CHANGES	-	-	
			DATE

LISBON	LISBON CENTER BRIDGE SABATTUS RIVER ANDROSCOGGIN
CROSS SECTIONS	

SHEET NUMBER
10
OF 53

Filename: XSect.dgn



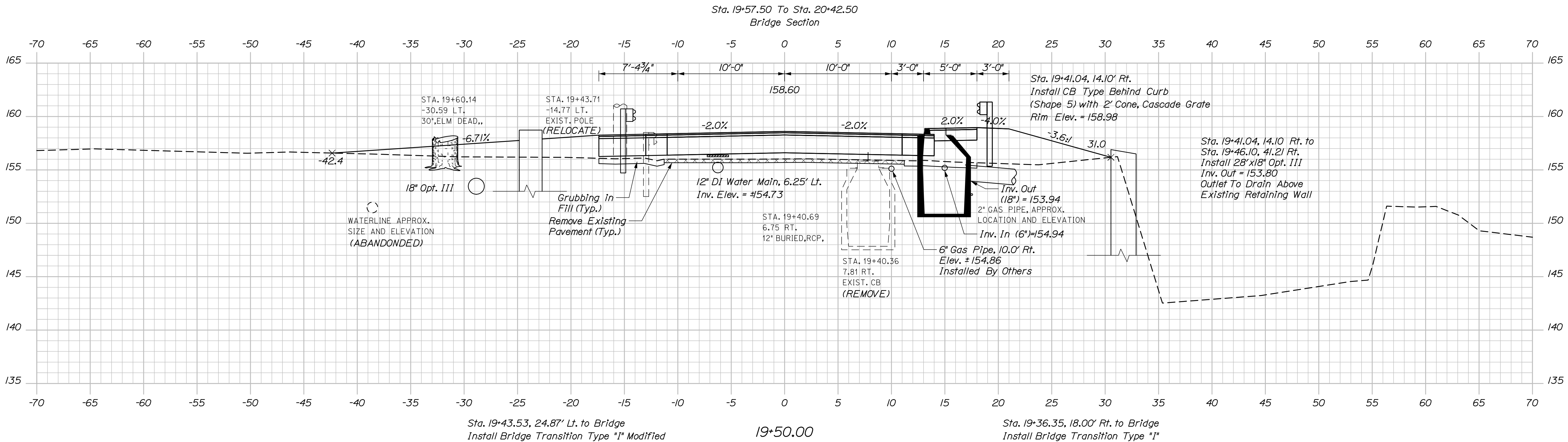
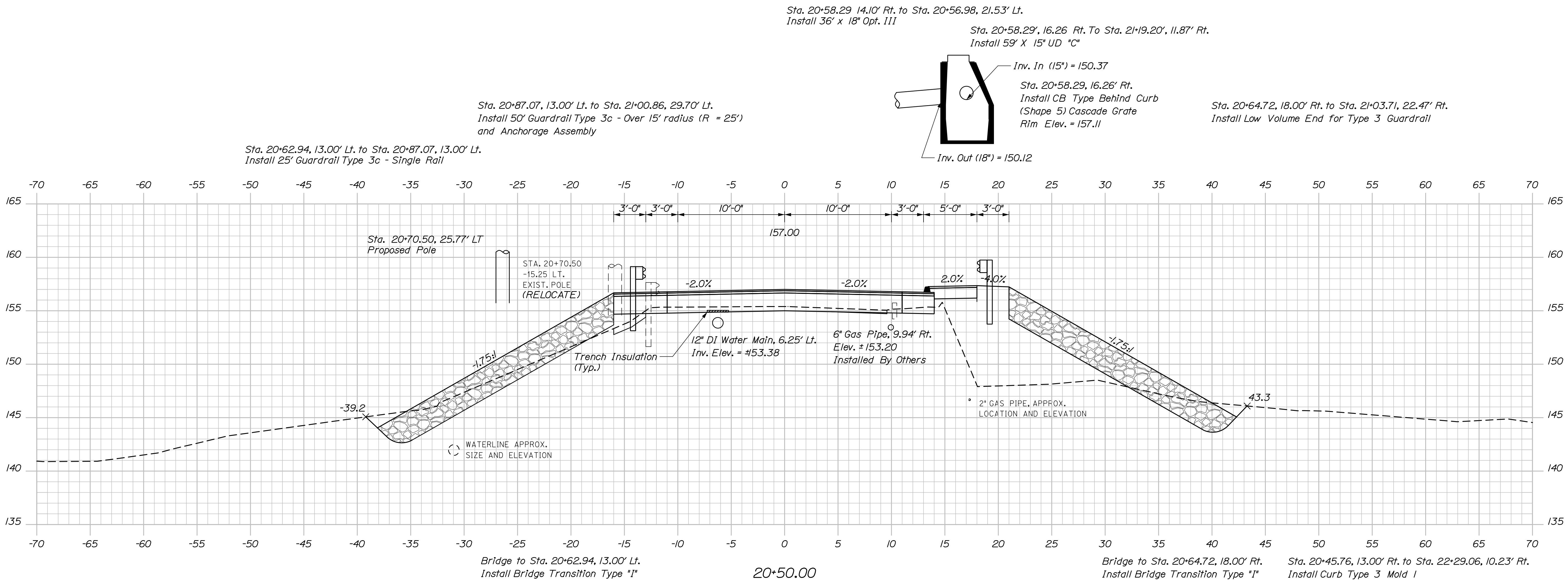
SHEET NUMBER 11 OF 53	LISBON CENTER BRIDGE SABATTUS RIVER ANDROSCOGGIN CROSS SECTIONS	PROJ. MANAGER	J. Kittredge	BY	DATE
		DESIGNED-DETAILED	R. Noels	HNTB	12/17
		CHECKED-REVIEWED	HNTB	-	12/17
		DESIGNS DETAIL ED?	-	-	SIGNATURE
		DESIGNS DETAIL ED?	-	-	P.E. NUMBER
		REVIEWS 1	-	-	-
		REVIEWS 2	-	-	-
		REVIEWS 3	-	-	DATE
		REVIEWS 4	-	-	-
		FIELD CHANGES	-	-	-
STATE OF MAINE DEPARTMENT OF TRANSPORTATION					
WIN 18970.00					
BRIDGE NO. 5007		BRIDGE PLANS			

Date:4/10/2018

Username:

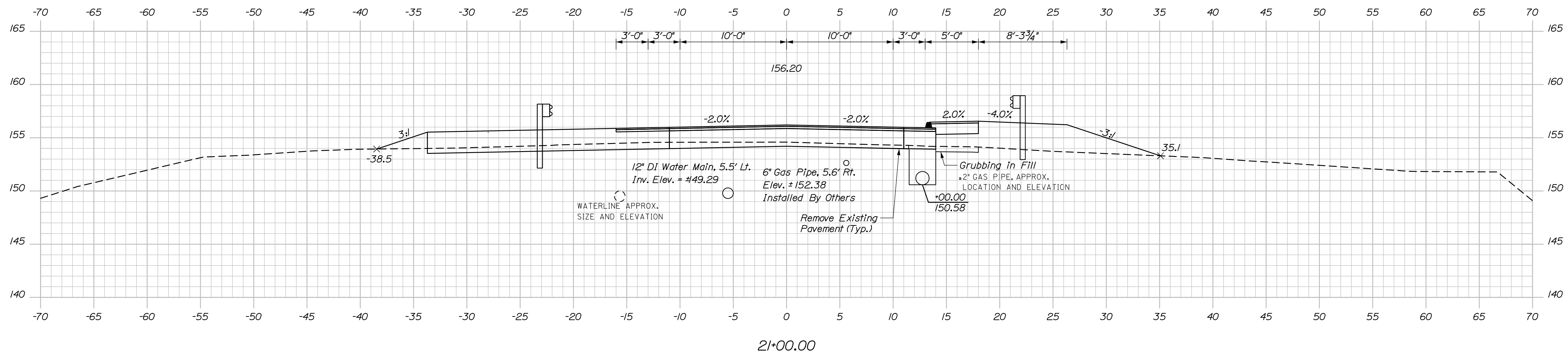
Division:

Filename: XSect.dgn



PROJ. MANAGER	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
J. Kittredge	HTB	12/17			
R. Nious	HTB	12/17			
CHECKED-REVIEWED					
DESIGN-DETAILED					
DESIGN-DETAILED					
REVISIONS 1					
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
FIELD CHANGES					

Filename: XSect.dgn



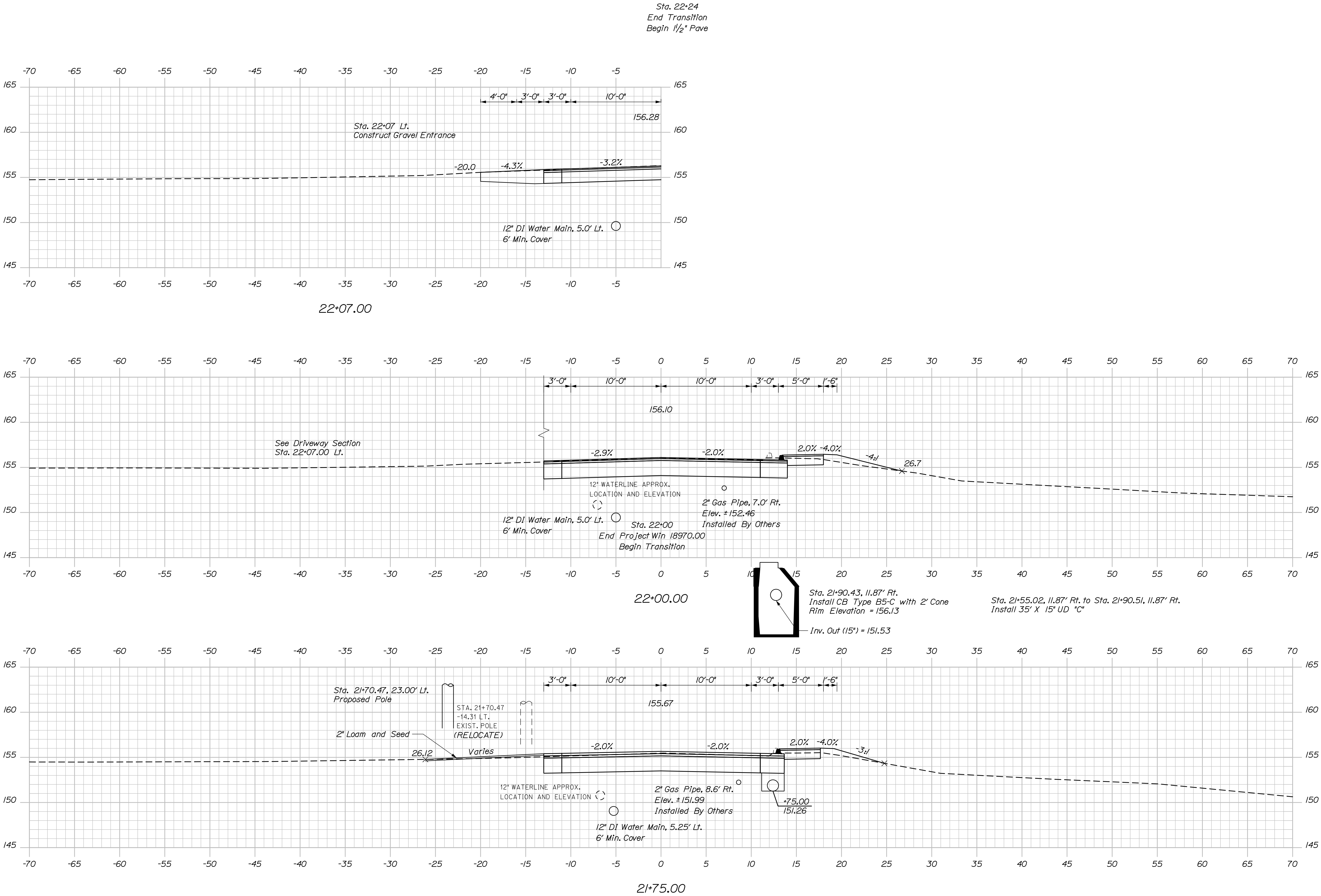
SHEET NUMBER 13 OF 53	LIBSON CENTER BRIDGE SABATTUS RIVER LIBSON				PROJ. MANAGER	J. Kittredge	BY	DATE	STATE OF MAINE DEPARTMENT OF TRANSPORTATION
	ANDROSCOGGIN				DESIGNED-DETAILED	R. Noels	HNTB	12/17	
					CHECKED-REVIEWED	HNTB	-	12/17	
	CROSS SECTIONS				DESIGNS DETAIL ED2	-	-	SIGNATURE	
					DESIGNS DETAIL ED3	-	-	P.E. NUMBER	
					REVISIONS 1	-	-	BRIDGE NO. 5007 BRIDGE PLANS	
					REVISIONS 2	-	-		
					REVISIONS 3	-	-		
					REVISIONS 4	-	-		
					FIELD CHANGES	-	-	DATE	

Date:4/10/2018

Username:

Division:

Filename: XSect.dgn



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
WIN 18970.00

BRIDGE NO. 5007
BRIDGE PLANS

PROJ. MANAGER	BY	DATE
J. Kittredge	HTB	12/17
R. Nious	HTB	12/17
CHECKED-REVIEWED	HTB	
DESIGNED-DETAILED		
DESIGNED-DETAILED		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

LISBON CENTER BRIDGE
SABATTUS RIVER
ANDROSCOGGIN
LISBON

CROSS SECTIONS

SHEET NUMBER

14

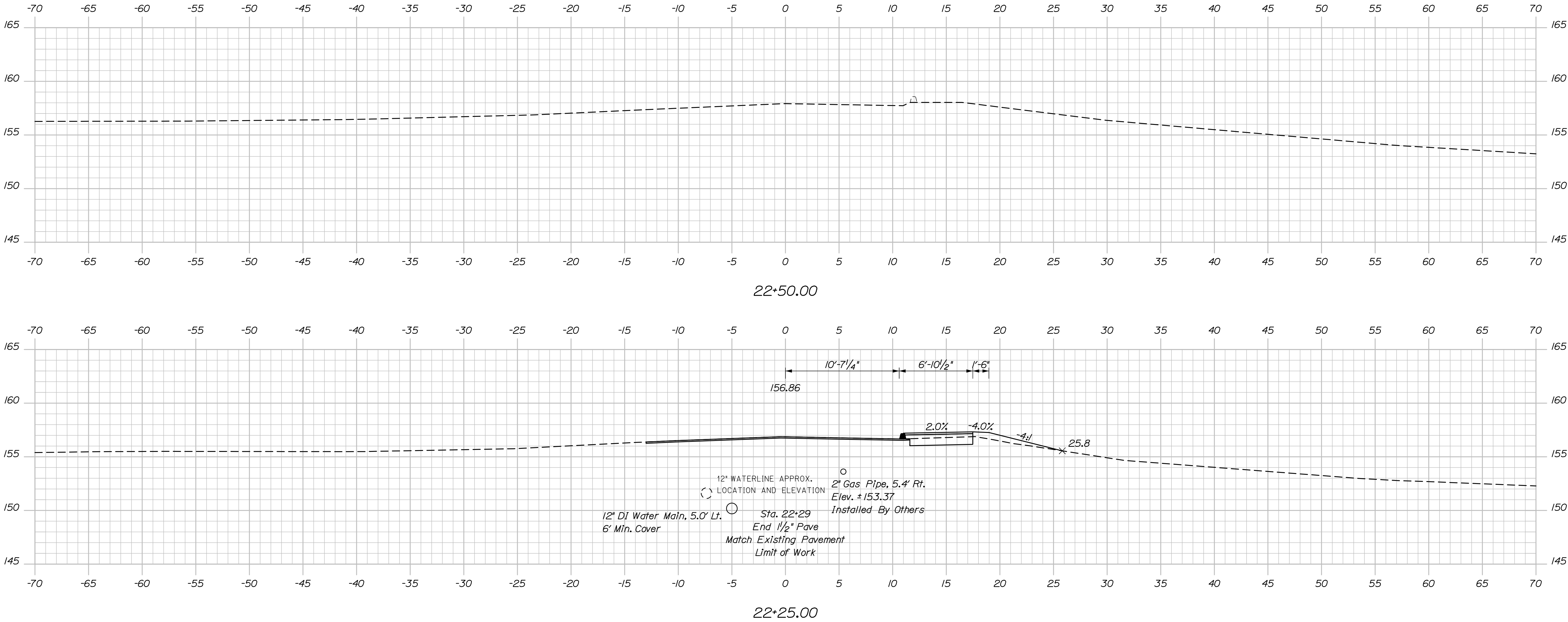
OF 53

Date:4/10/2018

Username:

Division:

Filename: XSect.dgn



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
WIN 18970.00

BRIDGE NO. 5007
BRIDGE PLANS

LISBON CENTER BRIDGE
SABATTUS RIVER
ANDROSCOGGIN

LISBON

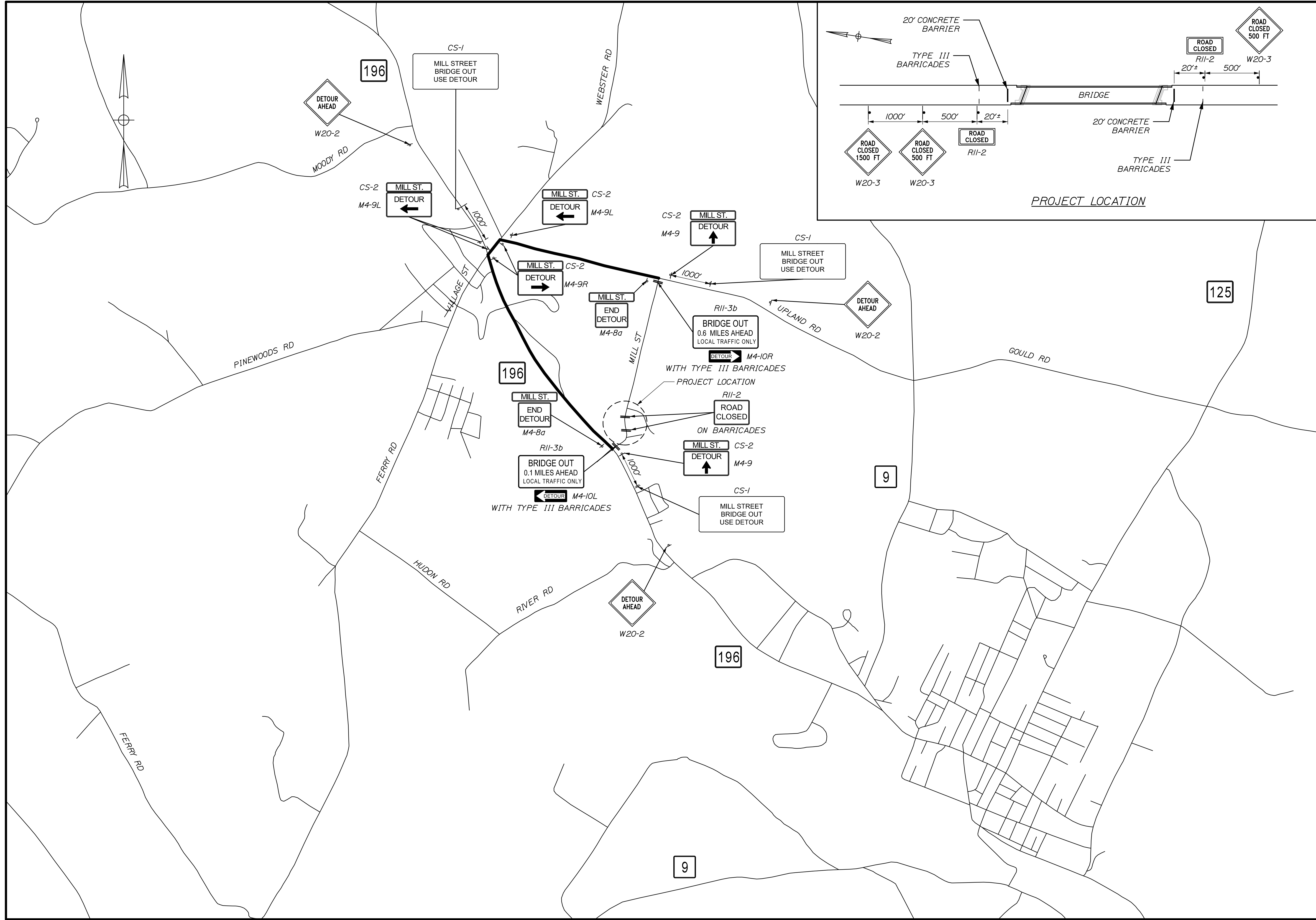
CROSS SECTIONS

SHEET NUMBER
15
OF 53

DATE
12/17
BY
J. Kittredge
PROJ. MANAGER
DESIGN-DETAILED
CHECKED-REVIEWED
DESIGN-DETAILED
REVISIONS 1
REVISIONS 2
REVISIONS 3
REVISIONS 4
FIELD CHANGES

DATE
12/17
BY
HNTB
PROJ. MANAGER
DESIGN-DETAILED
CHECKED-REVIEWED
DESIGN-DETAILED
REVISIONS 1
REVISIONS 2
REVISIONS 3
REVISIONS 4
FIELD CHANGES

SIGNATURE
P.E. NUMBER
DATE



IDENTIFI- CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET	NOTES
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK- GROUND	LEGEND BORDER			
CS-1	42"	30"	MILL STREET BRIDGE OUT USE DETOUR	4"D 4"D 4"D	3" 3"		3	ORANGE	BLACK	1.5"	8.75 (26.25)	
CS-2	30"	6"	MILL ST.	4"C			9	ORANGE	BLACK		1.25 (11.25)	
M4-8a	24"	18"	END DETOUR	TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2000			2	SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2000			3.00 (6)	
M4-9	30"	24"	DETOUR ↑				2				5.00 (10)	
M4-9L	30"	24"	DETOUR ←				3				5.00 (15)	
M4-9R	30"	24"	DETOUR →				2				5.00 (10)	
M4-10L M4-10R	48"	18"	← DETOUR L-SHOWN, R-OPPOSITE				1 1				6.00 (6) (6)	
R11-2	48"	30"	ROAD CLOSED				2				10.00 (20)	
R11-3b (0.1) (0.6)	60"	30"	BRIDGE OUT XX MILES AHEAD LOCAL TRAFFIC ONLY				1 1				12.50 (12.5) (12.5)	
W20-2 (AHEAD)	48"	48"	DETOUR AHEAD				3				16.00 (48)	
W20-3 (500 FT) (1500 FT)	48"	48"	ROAD CLOSED XXXX				2 1				16.00 (32) (16)	

Note:
1. Sign summary included above is for the detour.

LISBON CENTER BRIDGE
SABATTUS RIVER
ANDROSCOGGIN

LISBON

SIGN SUMMARY

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 18970.00

BRIDGE NO. 5007
BRIDGE PLANS

SHEET NUMBER

17

OF 53

PROJ. MANAGER	J. Kittredge	BY	DATE
DESIGN-DETAILED	R. Nious	HTB	08/17
CHECKED-REVIEWED	HTB	-	08/17
DESIGN-DETAILED	-	-	-
REVISIONS 1	-	-	-
REVISIONS 2	-	-	-
REVISIONS 3	-	-	-
REVISIONS 4	-	-	-
FIELD CHANGES	-	-	-

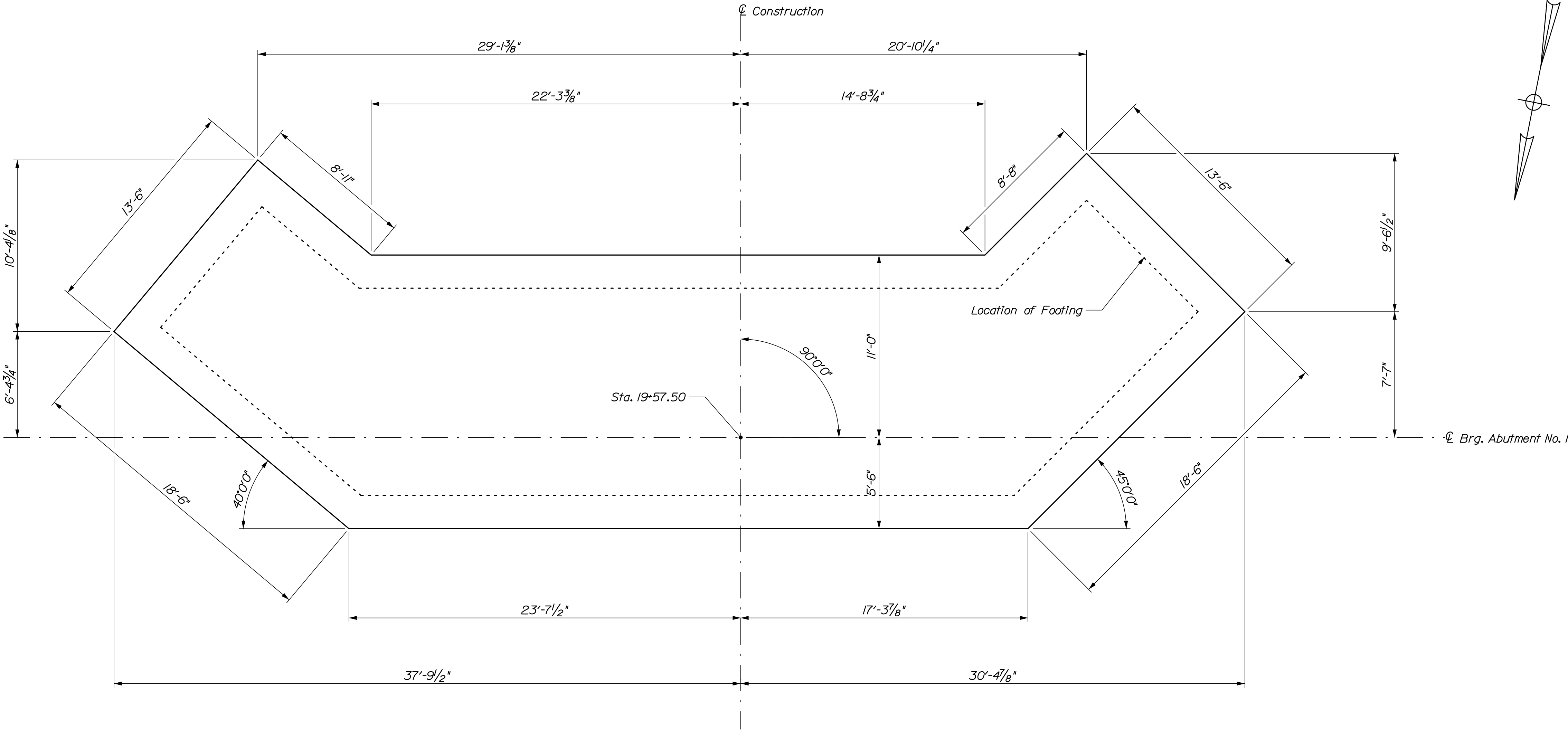
SIGNATURE

P.E. NUMBER

DATE

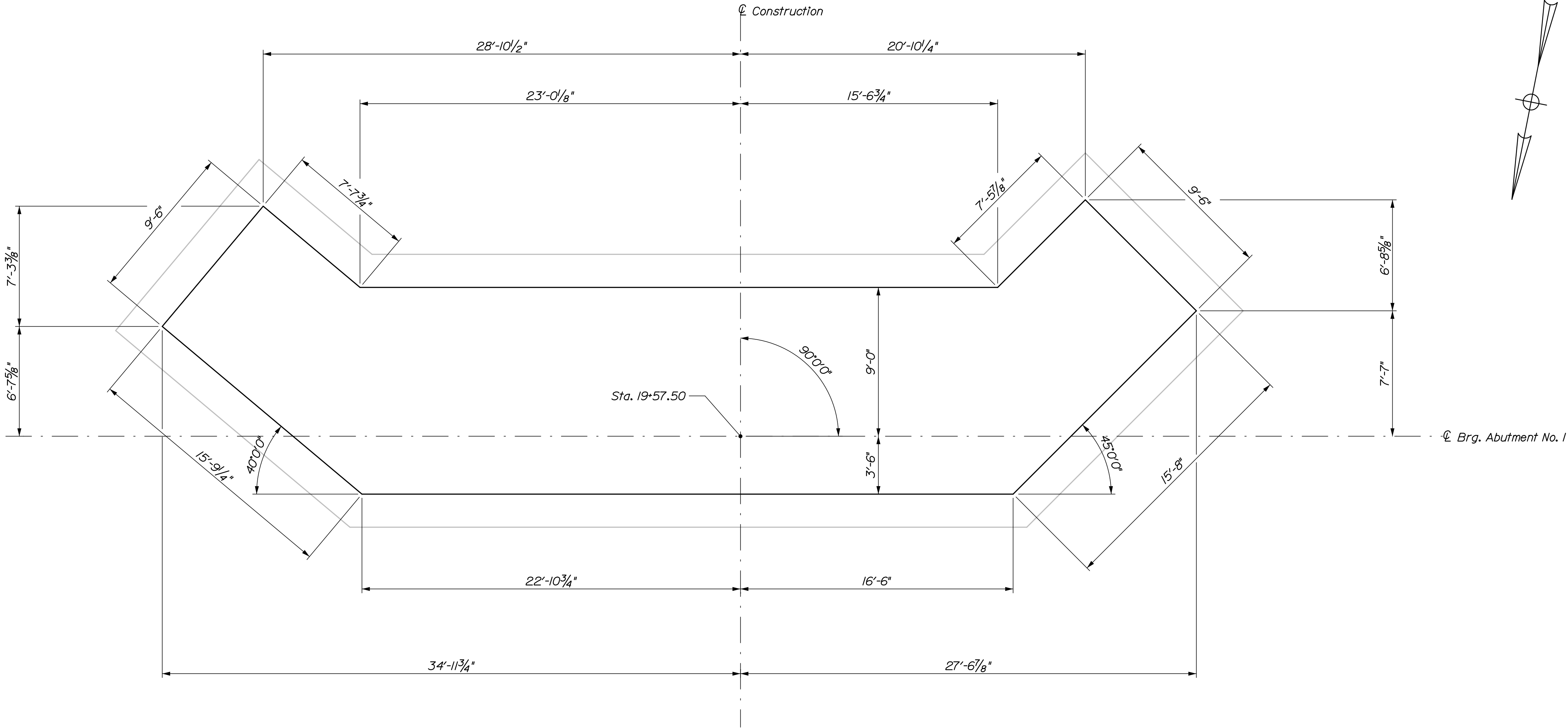
SEAL COFFERDAM NOTES:

1. Seal concrete shall be Concrete, Class "A".
2. When sheet piling is used for seal cofferdams, appropriate rolled corners shall be used, and the inside face of the sheet piling shall be at or outside of the seal concrete dimensions shown.
3. The seal concrete placement dimensions shown represent the minimum seal size necessary to meet design requirements and are not based on the use of any particular sheet pile section.
4. The horizontal pay limit for seal concrete will be to the dimensions shown on the plans. No additional payment will be made for concrete placed outside these limits.
5. The depth of the seal is set for a water elevation of 149.28. If the water elevation at the time of construction is higher, the depth of the seal shall be adjusted.
6. Seal concrete above the normal water line shall have a smooth, regular surface. Cofferdams with an irregular inside surface, such as sand bags, shall have formwork for the seal concrete installed inside the cofferdam. Seal formwork will not be paid for separately, but will be considered incidental to the appropriate cofferdam Pay Item.
7. The method of placing dowels in the seal concrete shall be approved by the Resident.



ABUTMENT NO. 1 SEAL PLAN

LISBON SABATTUS RIVER ANDROSCOGGIN LISBON	STATE OF MAINE DEPARTMENT OF TRANSPORTATION		WIN 18970.00		BRIDGE NO. 5007		BRIDGE PLANS	
	SHEET NUMBER		18		OF 53			
	ABUTMENT NO. 1 SEAL PLAN		SIGNATURE		P.E. NUMBER		DATE	

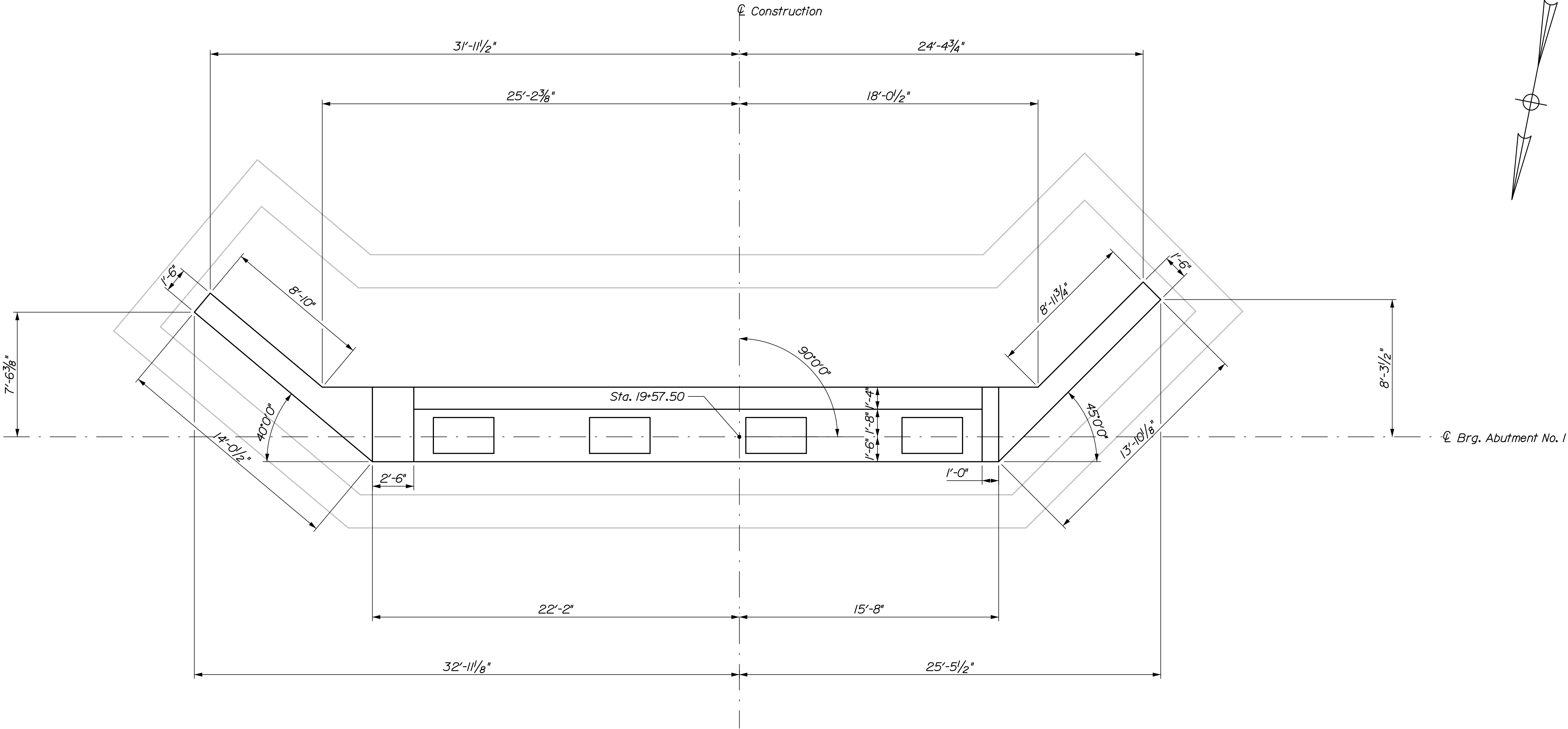


ABUTMENT NO. 1 FOOTING PLAN

LISBON LISBON CENTER BRIDGE SABATTUS RIVER ANDROSCOGGIN	STATE OF MAINE DEPARTMENT OF TRANSPORTATION			
	WIN 18970.00			
	BRIDGE NO. 5007			
	BRIDGE PLANS			
SHEET NUMBER 19 OF 53	ABUTMENT NO. 1 FOOTING PLAN			
PROJ. MANAGER		J. Kittredge	BY	DATE
DESIGN-DETAILED		R. Nious	HTB	12/17
CHECKED-REVIEWED		-	-	12/17
DESIGN-DETAILED		-	-	-
REVISIONS 1		-	-	-
REVISIONS 2		-	-	-
REVISIONS 3		-	-	-
REVISIONS 4		-	-	-
FIELD CHANGES		-	-	-
				SIGNATURE
				P.E. NUMBER
				DATE

ABUTMENT NOTES:

1. The maximum factored applied footing pressure is 11.7 ksf.
2. Structural Earth Excavation, Abutments and Retaining Walls, required more than 12 inches below the bottom of the structure, will be paid for in accordance with Standard Specifications Section 206, Structural Excavation.
3. Reinforcing steel shall have a minimum concrete cover of 2 inches in the walls and 3 inches in the footings unless otherwise noted.
4. Place 4-in. diameter drains in the breastwall and wingwalls at 10-ft maximum spacing. The exact location will be determined by the Resident.
5. Abutments, wingwalls and their footings shall be backfilled with Granular Borrow. Pay limits will be the structural excavation limits in cut areas and a vertical plane located 10 feet behind the walls in fill areas.
6. Install drainage geocomposite behind the abutments and wingwalls in accordance with Special Provision Section 620, Drainage Geocomposite. The drainage geocomposite shall be installed from the bottom of subgrade to top of footing.
7. Foundation concrete shall be placed on bedrock cleaned of all loose rock and soil. The bedrock subgrade shall be confirmed to be relatively level. Where the bedrock slope exceeds 4H:1V, the bedrock surface shall be benched to create level steps or made completely level. The top of bedrock is shown at boring locations only. The bedrock profile is assumed to be unknown until excavation for the seal is completed.



ABUTMENT NO. 1 PLAN

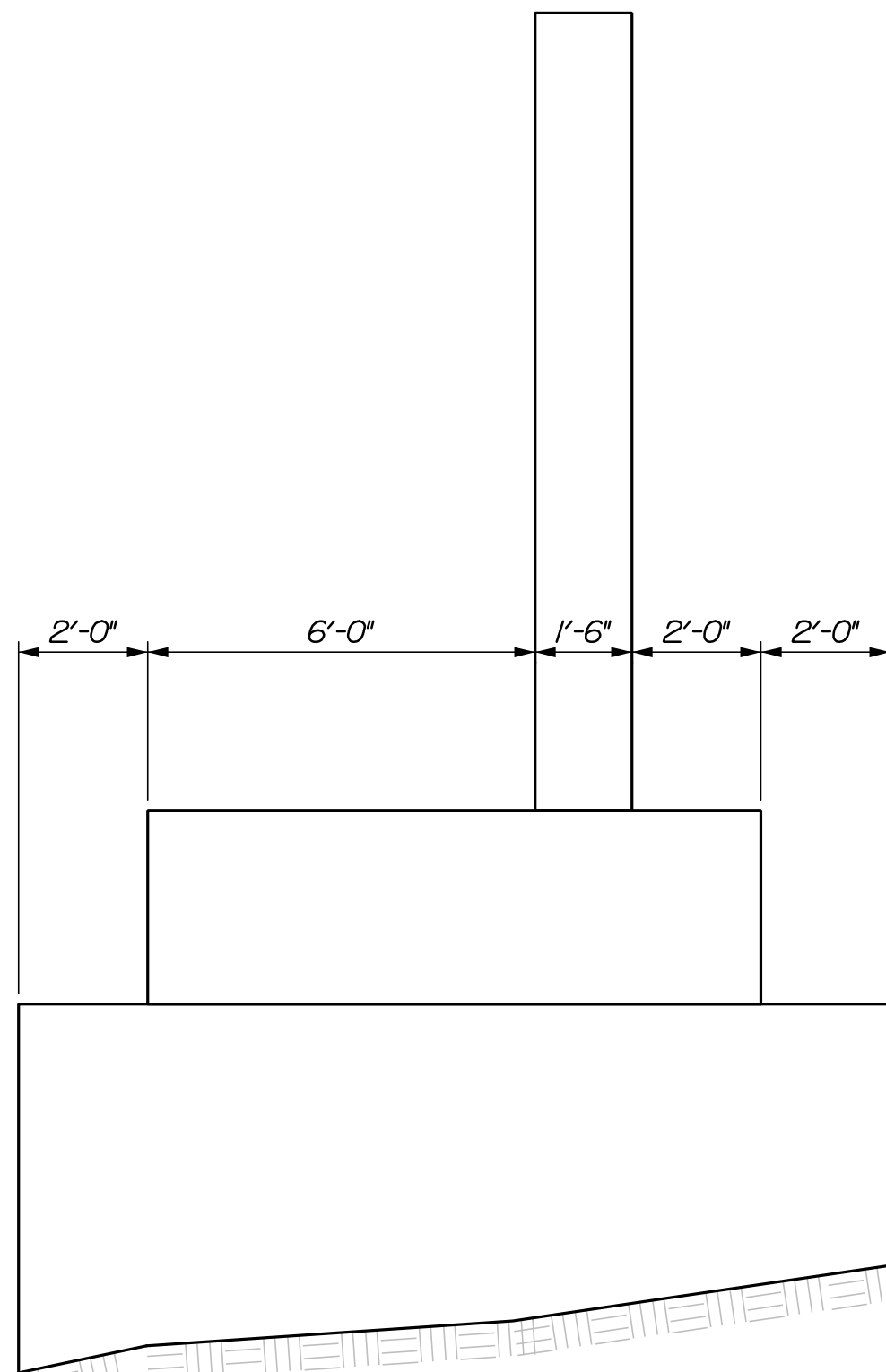
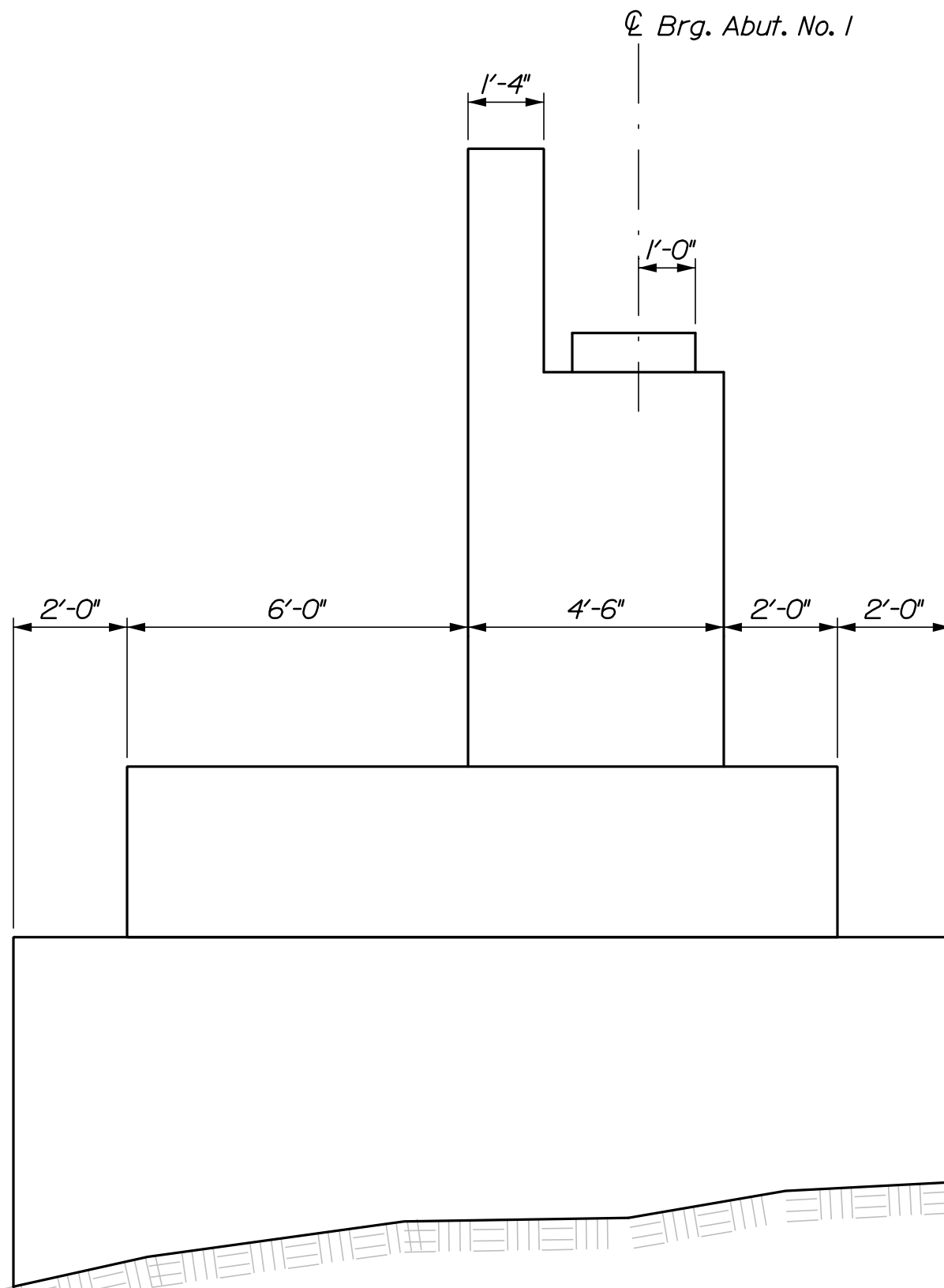
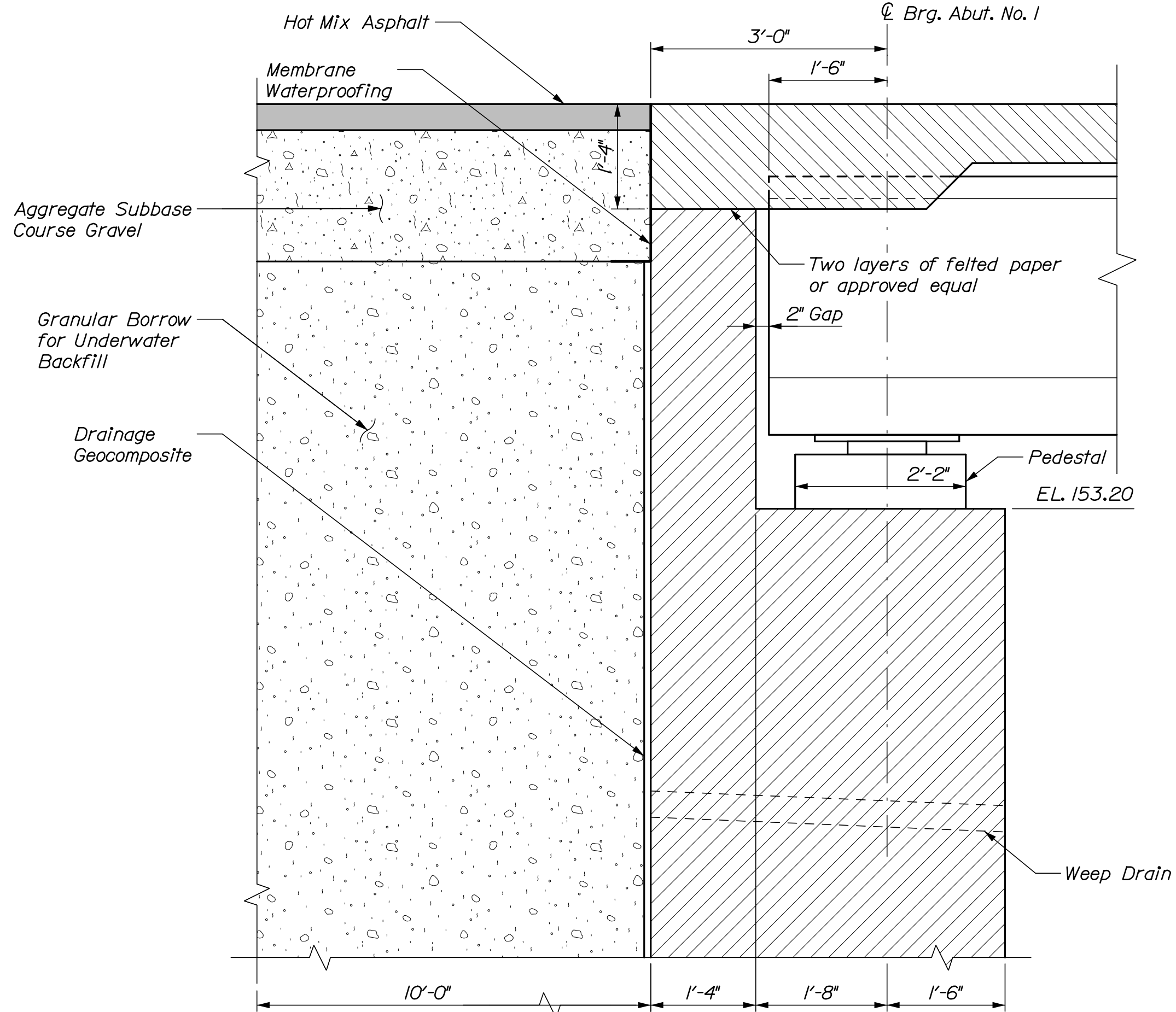
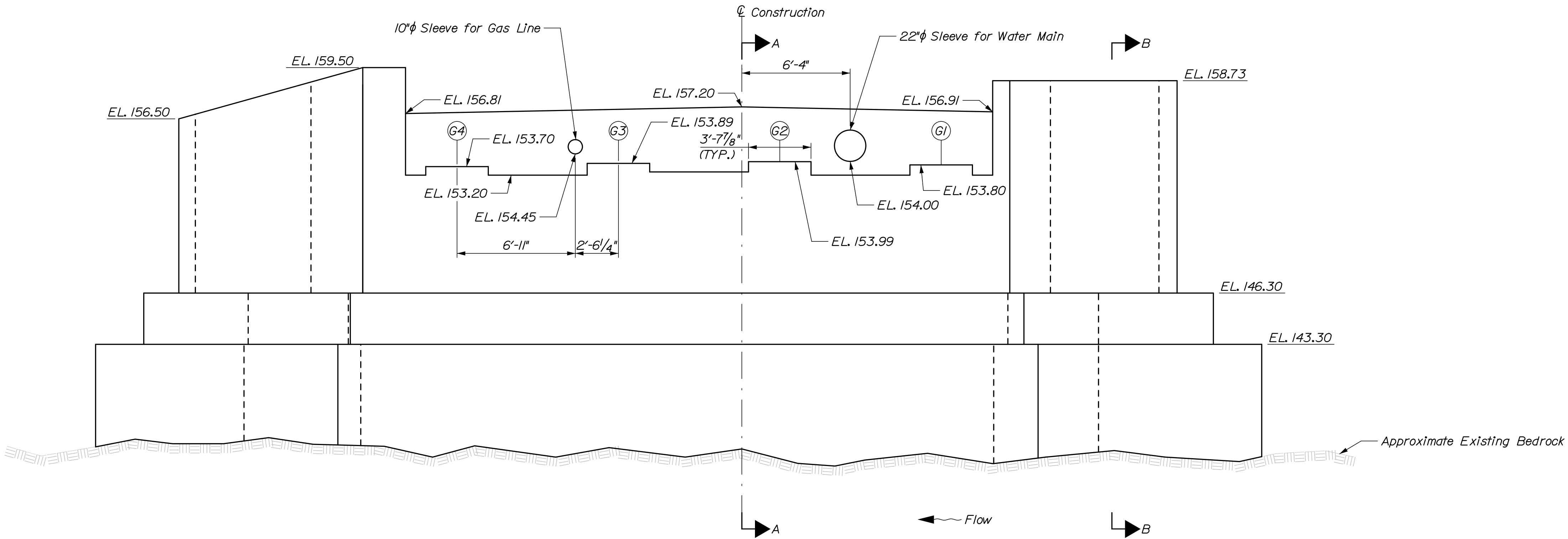
LISBON CENTER BRIDGE SABATTUS RIVER ANDROSCOGGIN	STATE OF MAINE DEPARTMENT OF TRANSPORTATION			
	WIN 18970.00			
	BRIDGE NO. 5007			
LISBON	PROJ. MANAGER	J. Kittredge	BY	DATE
	DESIGNED-DETAILED	R. Nious	HNTB	12/17
ABUTMENT NO. 1 PLAN	CHECKED-REVIEWED	HNTB	-	12/17
	DESIGNED-DETAILED	-	-	-
SHEET NUMBER	REVISIONS 1	-	-	SIGNATURE
	REVISIONS 2	-	-	P.E. NUMBER
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	REVISIONS 4	-	-	-
OF 53		FIELD CHANGES		

Date:4/10/2018

Username:

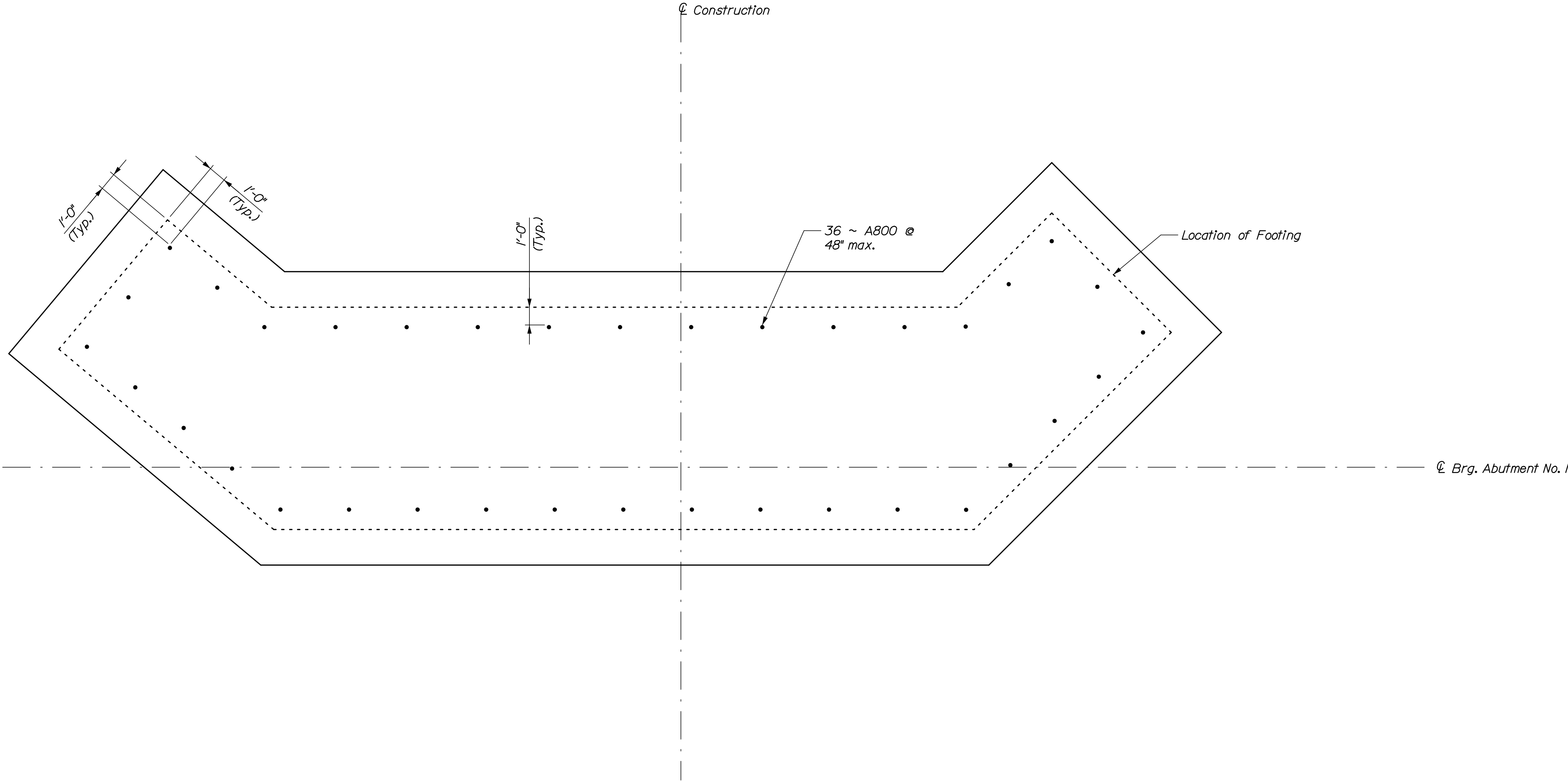
Division:

Filename: 021_Abutment 1 Elevations.dgn



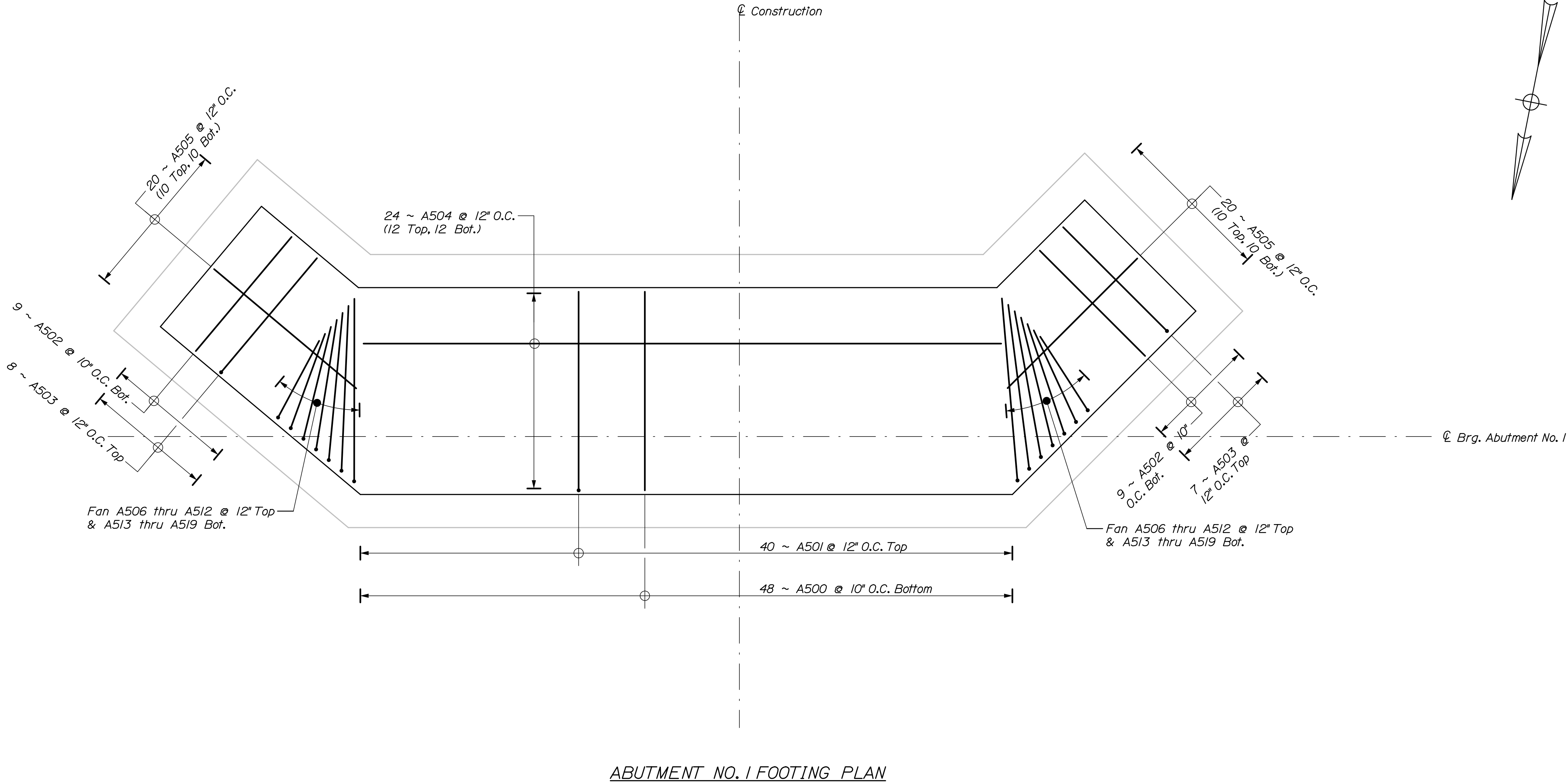
STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		WIN 18970.00		BRIDGE NO. 5007		BRIDGE PLANS	
LISBON CENTER BRIDGE		SABATTUS RIVER		ANDROSCOGGIN		ABUTMENT NO. 1		ELEVATIONS	
LISBON		SHEET NUMBER		21		OF 53			
PROJ. MANAGER	J. Kittredge	CHECKED-DESIGNED	R. Nious	BY	HTB	DATE	12/17	SIGNATURE	
DESIGNED-REVIEWED	HTB	DESIGNED-REVIEWED	HTB	DATE	12/17	P.E. NUMBER		DATE	
DESIGNED-REVIEWED	HTB	DESIGNED-REVIEWED	HTB	DATE	12/17	P.E. NUMBER		DATE	
REVISIONS 1		REVISIONS 1		DATE		P.E. NUMBER		DATE	
REVISIONS 2		REVISIONS 2		DATE		P.E. NUMBER		DATE	
REVISIONS 3		REVISIONS 3		DATE		P.E. NUMBER		DATE	
REVISIONS 4		REVISIONS 4		DATE		P.E. NUMBER		DATE	
FIELD CHANGES		FIELD CHANGES		DATE		P.E. NUMBER		DATE	

ABUTMENT NO.1 SEAL REINFORCING PLAN



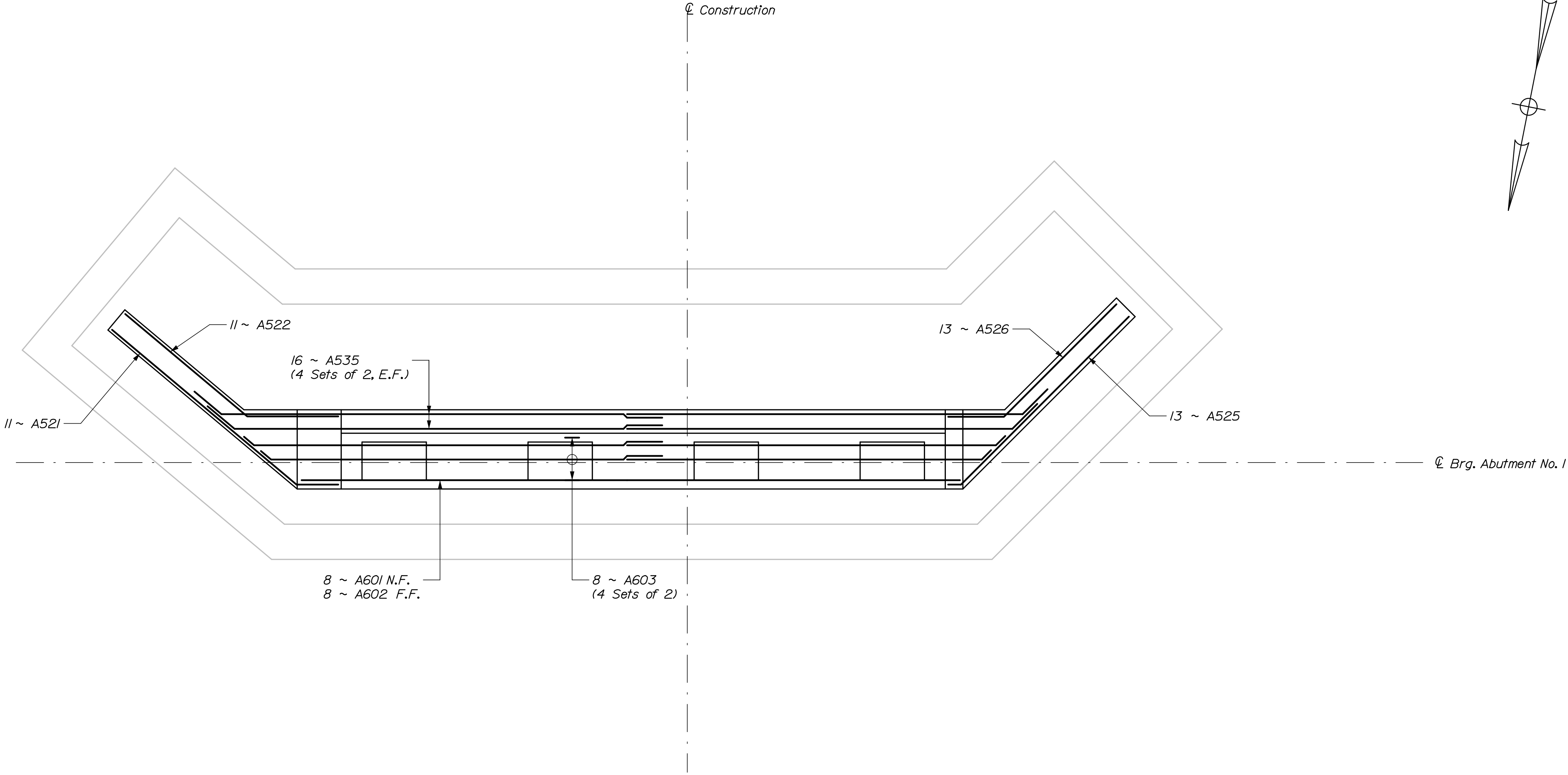
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CHECKED-REVIEWED	HTB	-	12/17
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REVISIONS 1	-	-	-
REVISIONS 2	-	-	-
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REVISIONS 4	-	-	-
FIELD CHANGES	-	-	-

SIGNATURE
P.E. NUMBER
DATE

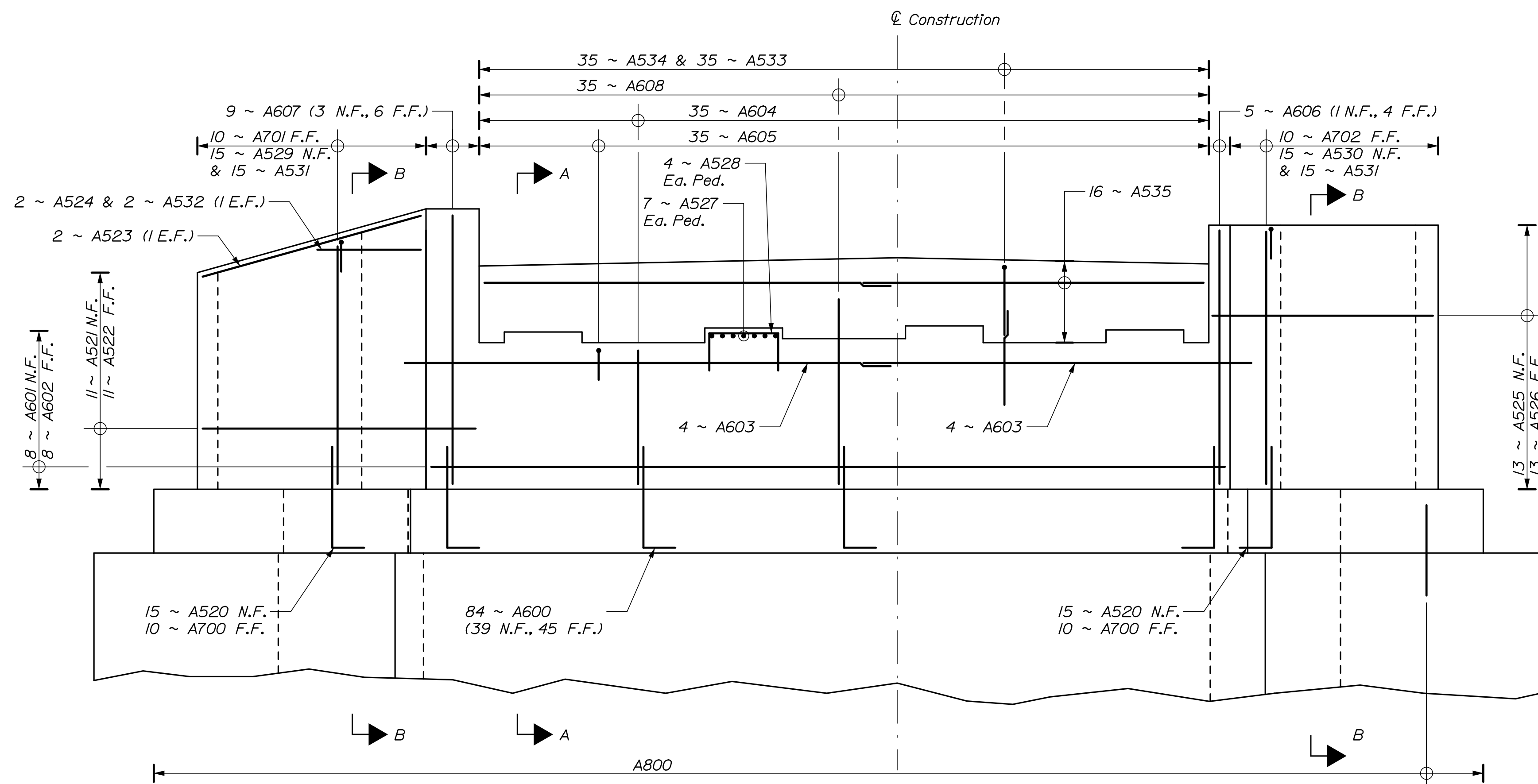


PROJ. MANAGER	J. Kittredge	BY		DATE	
DESIGN-DETAILED	R. Nious	HNIB		12/17	
CHECKED-REVIEWED	HNIB	-		12/17	
DESIGN-DETAILED	-	-		-	
REVISIONS 1	-	-		-	
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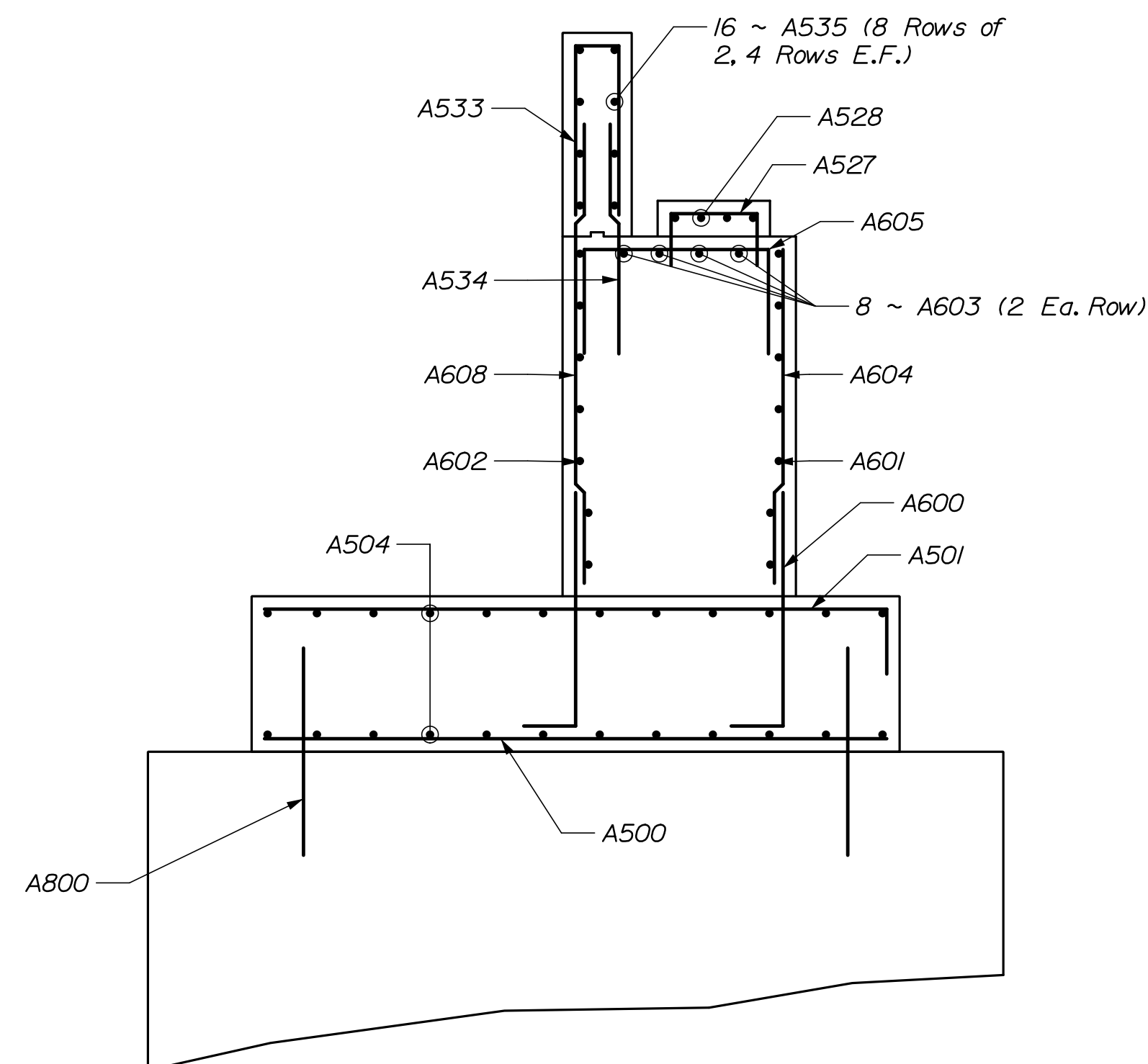
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P.E. NUMBER	
DATE	



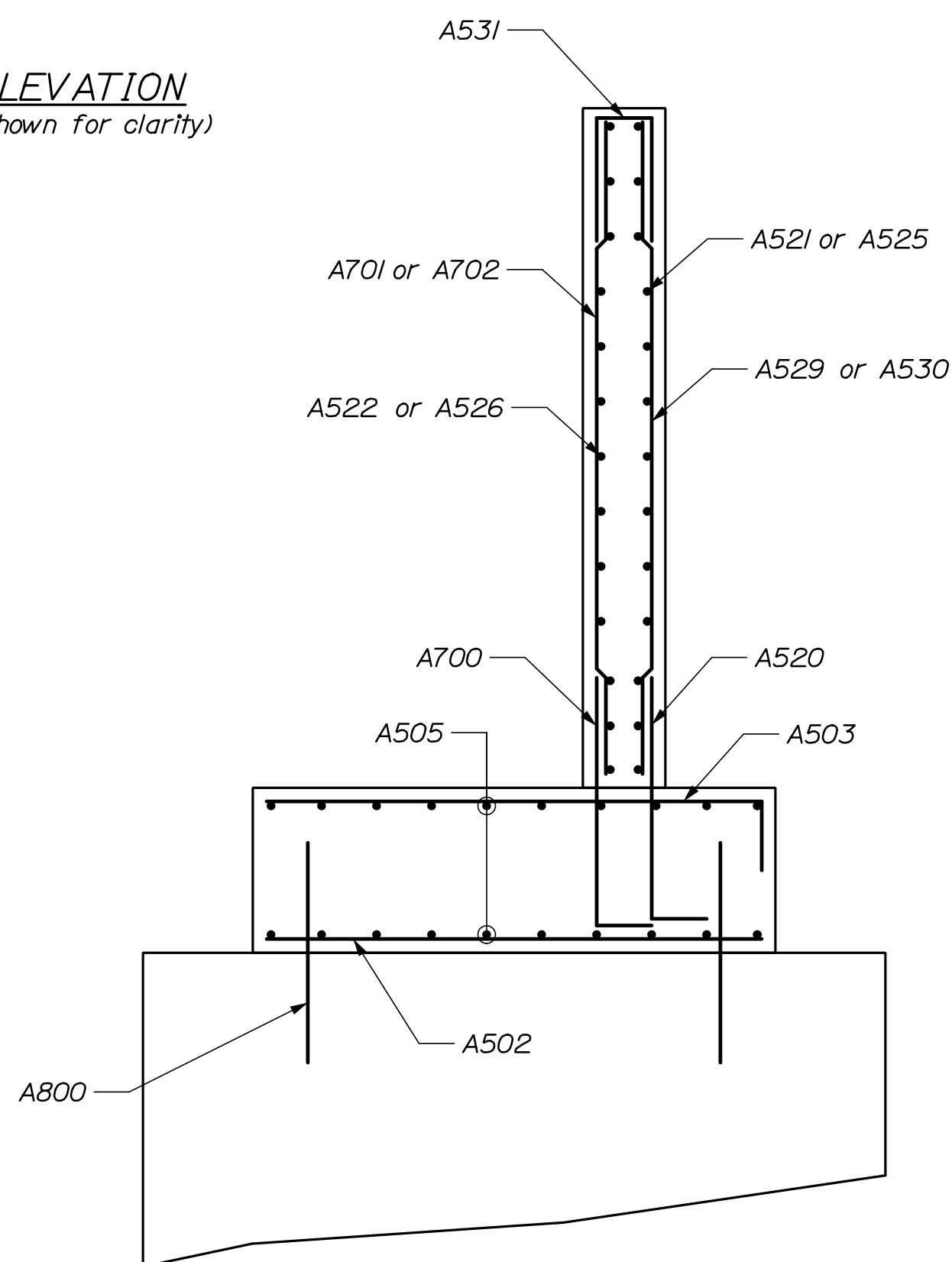
LISBON CENTER BRIDGE SABATTUS RIVER LISBON ANDROSCOGGIN	STATE OF MAINE			
	DEPARTMENT OF TRANSPORTATION			
	WIN 18970.00			
	BRIDGE NO. 5007			
ABUTMENT NO. 1 PLAN REINFORCING PLAN	DESIGN-DETAILED	J. Kittredge	BY	DATE
	CHECKED-REVIEWED	R. Nious	HTB	12/17
	DESIGN-DETAILED	-	-	12/17
	DESIGN-DETAILED	-	-	-
SHEET NUMBER	REVISIONS 1	-	-	SIGNATURE
	REVISIONS 2	-	-	P.E. NUMBER
	REVISIONS 3	-	-	DATE
	REVISIONS 4	-	-	-
24	OF 53	BRIDGE PLANS		



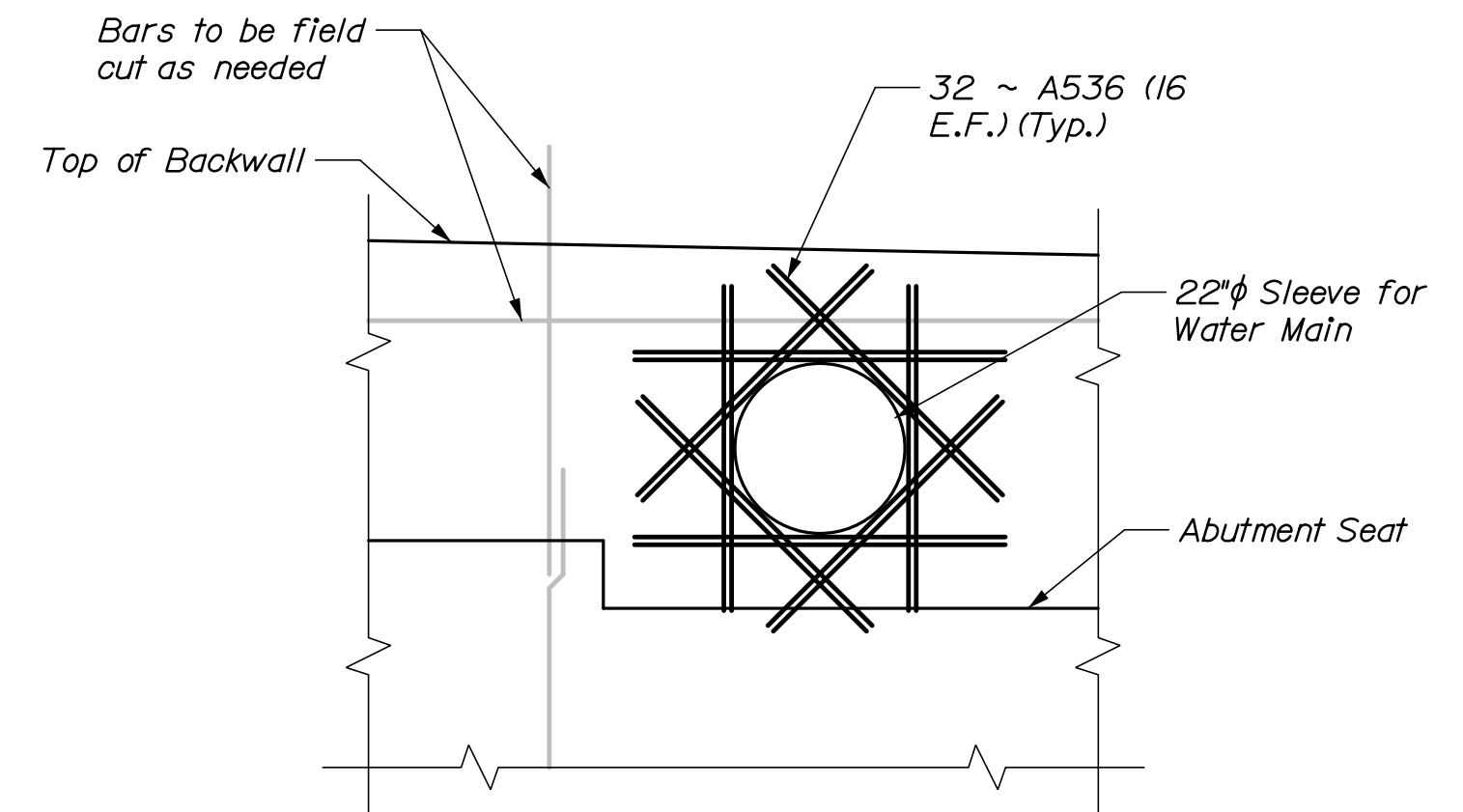
ABUTMENT NO. 1 ELEVATION
(Utility hole reinforcing not shown for clarity)



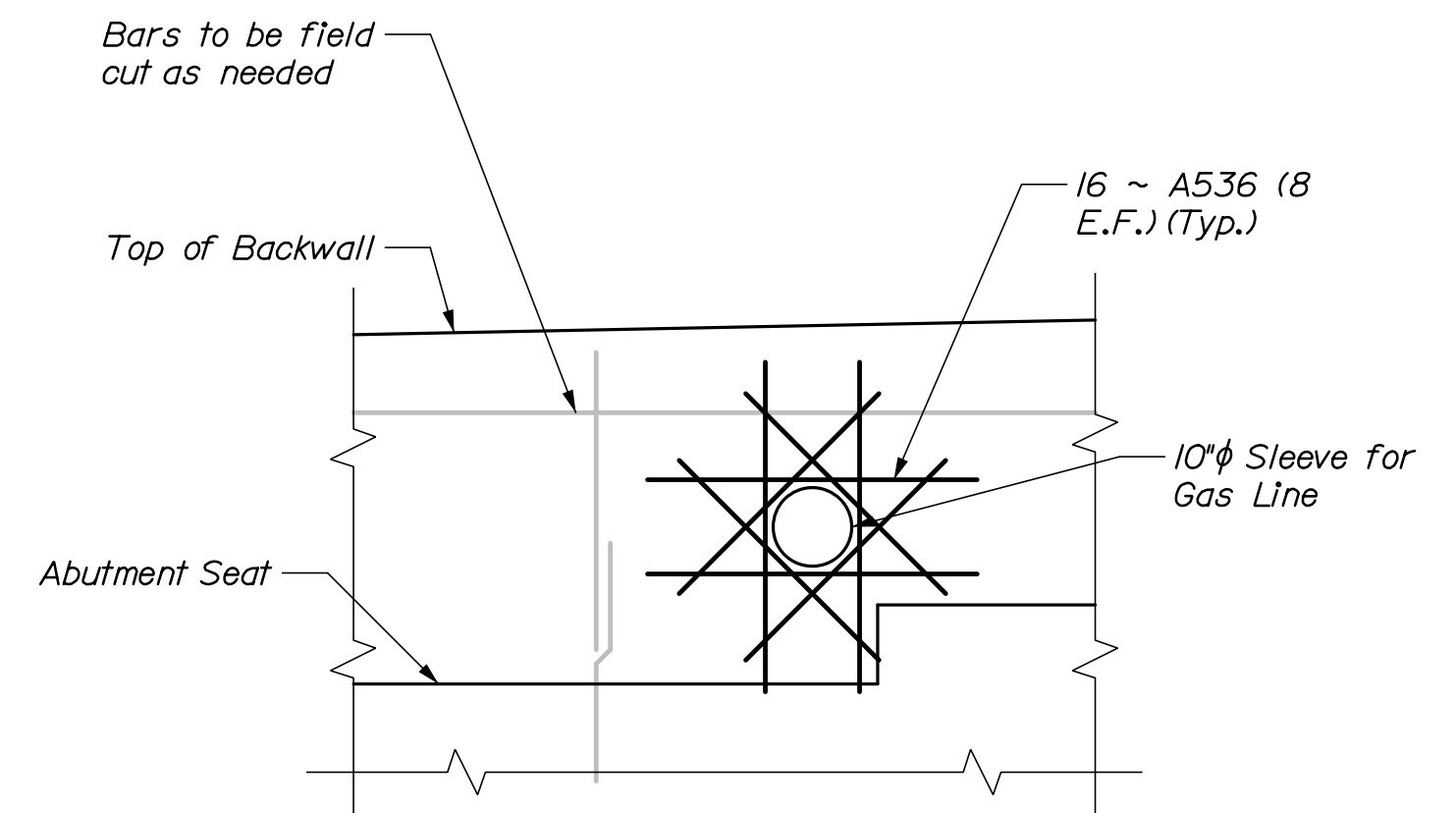
SECTION A-A



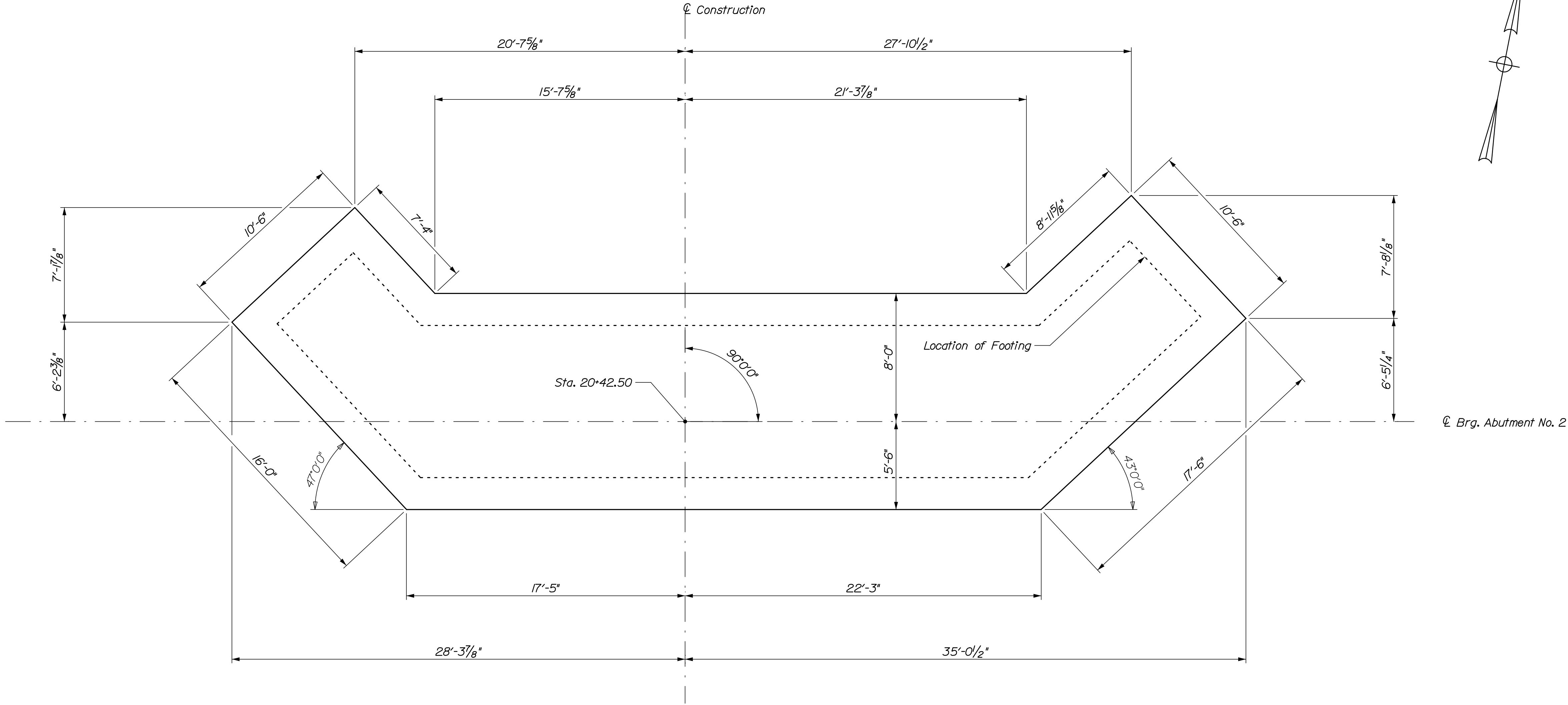
SECTION B-B



22"Ø SLEEVE REINFORCING

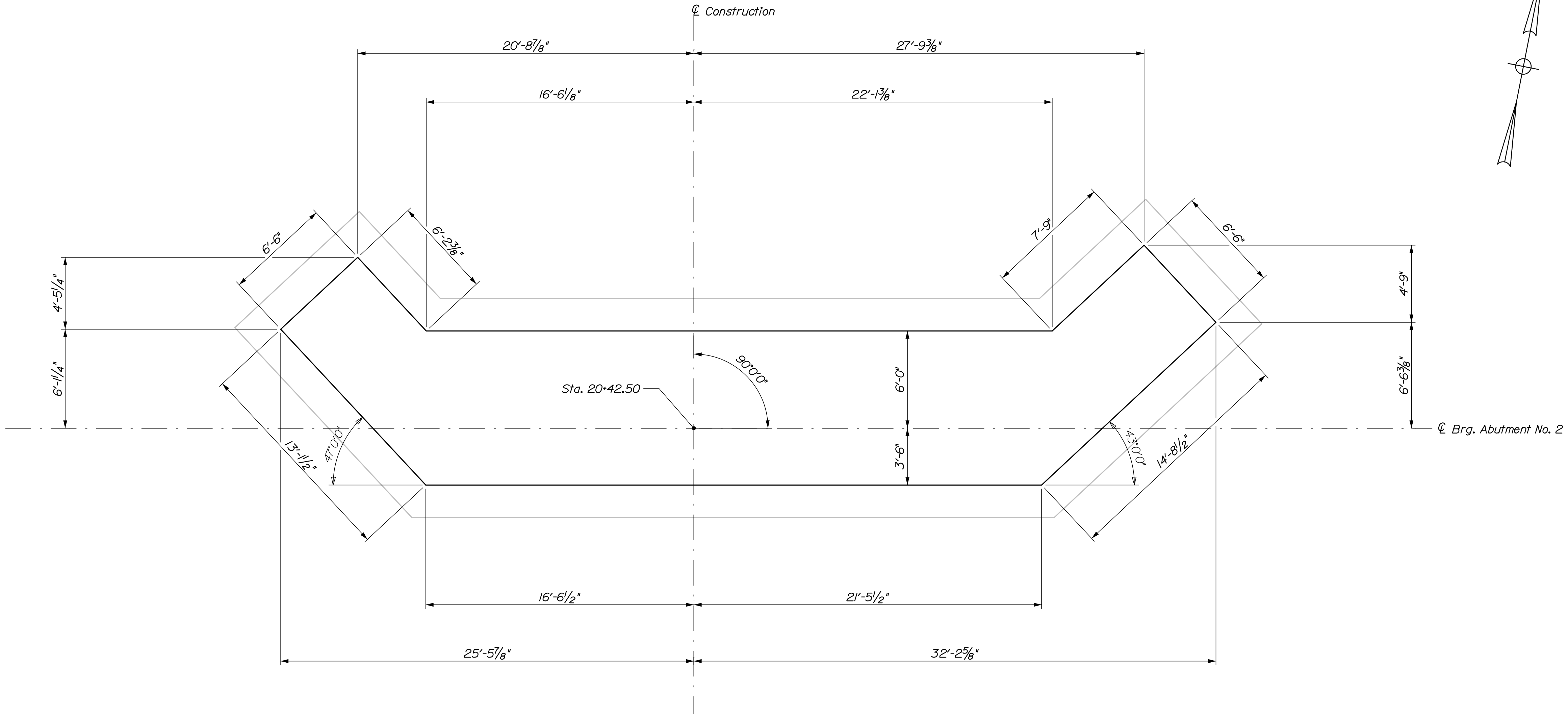


10"Ø SLEEVE REINFORCING

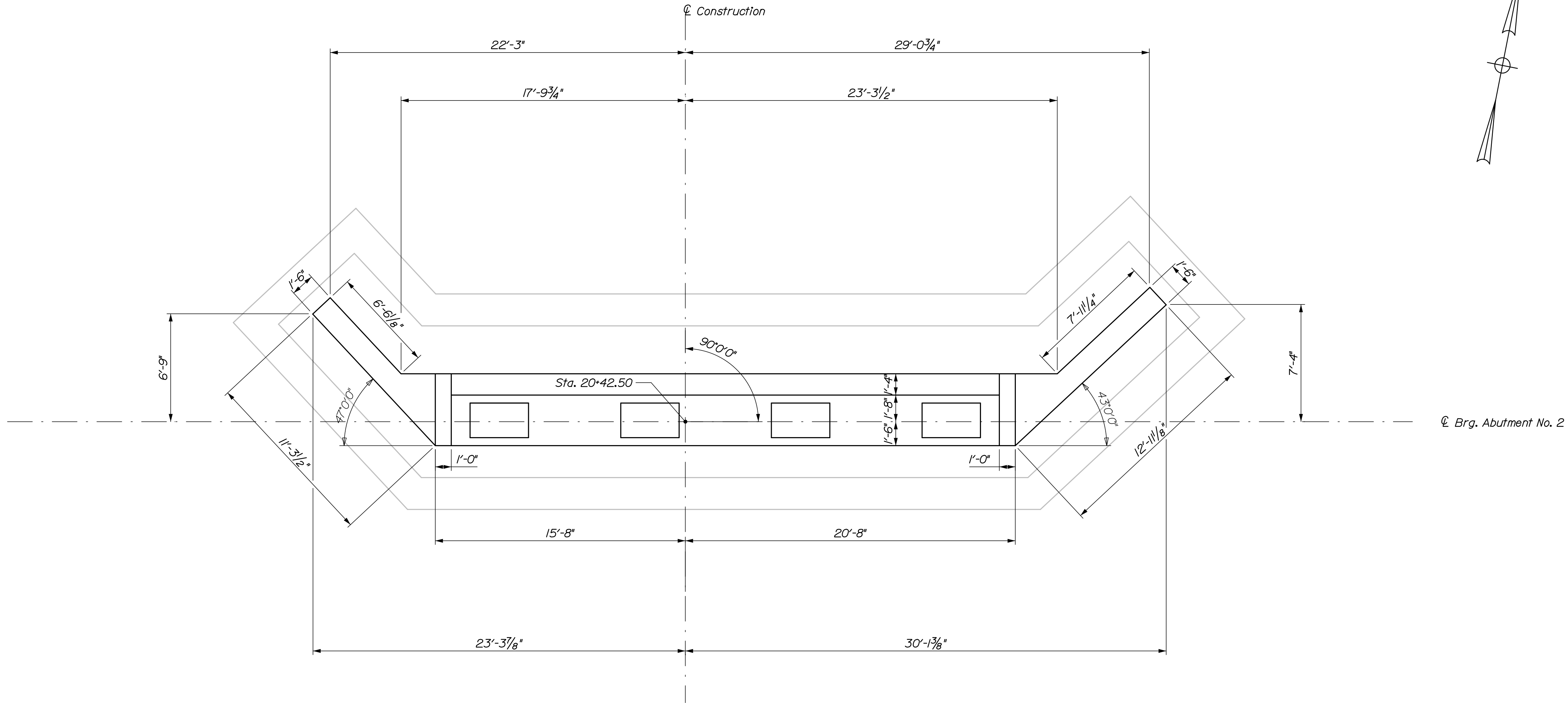


ABUTMENT NO. 2 SEAL PLAN

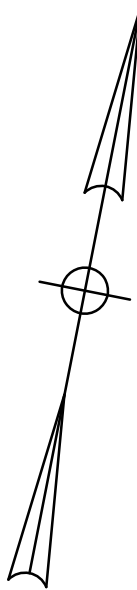
LISBON SABATTUS RIVER ANDROSCOGGIN	STATE OF MAINE DEPARTMENT OF TRANSPORTATION			
	WIN 18970.00			
	BRIDGE NO. 5007			
	BRIDGE PLANS			
SHEET NUMBER 26 OF 53	SIGNATURE			
	P.E. NUMBER			
	DATE			
	REVISIONS			
	FIELD CHANGES			



ABUTMENT NO. 2 FOOTING PLAN



ABUTMENT NO. 2 PLAN



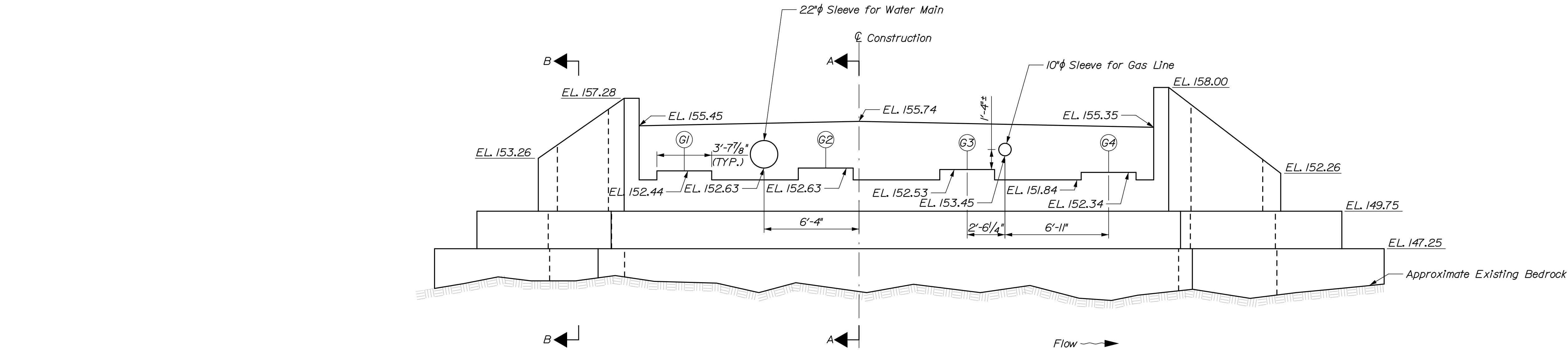
28 OF 53	SHEET NUMBER	LISBON CENTER BRIDGE SABATTUS RIVER LISBON ANDROSCOGGIN				PROJ. MANAGER J. Kiltredge	BY HNTB	DATE 12/17	STATE OF MAINE DEPARTMENT OF TRANSPORTATION	
		ABUTMENT NO. 2 PLAN		CHECKED-DETAILED R. Nodus	CHECKED-REVIEWED HNTB	DATE 12/17	SIGNATURE	WIN 18970.00	BRIDGE NO. 5007 BRIDGE PLANS	

Date:4/10/2018

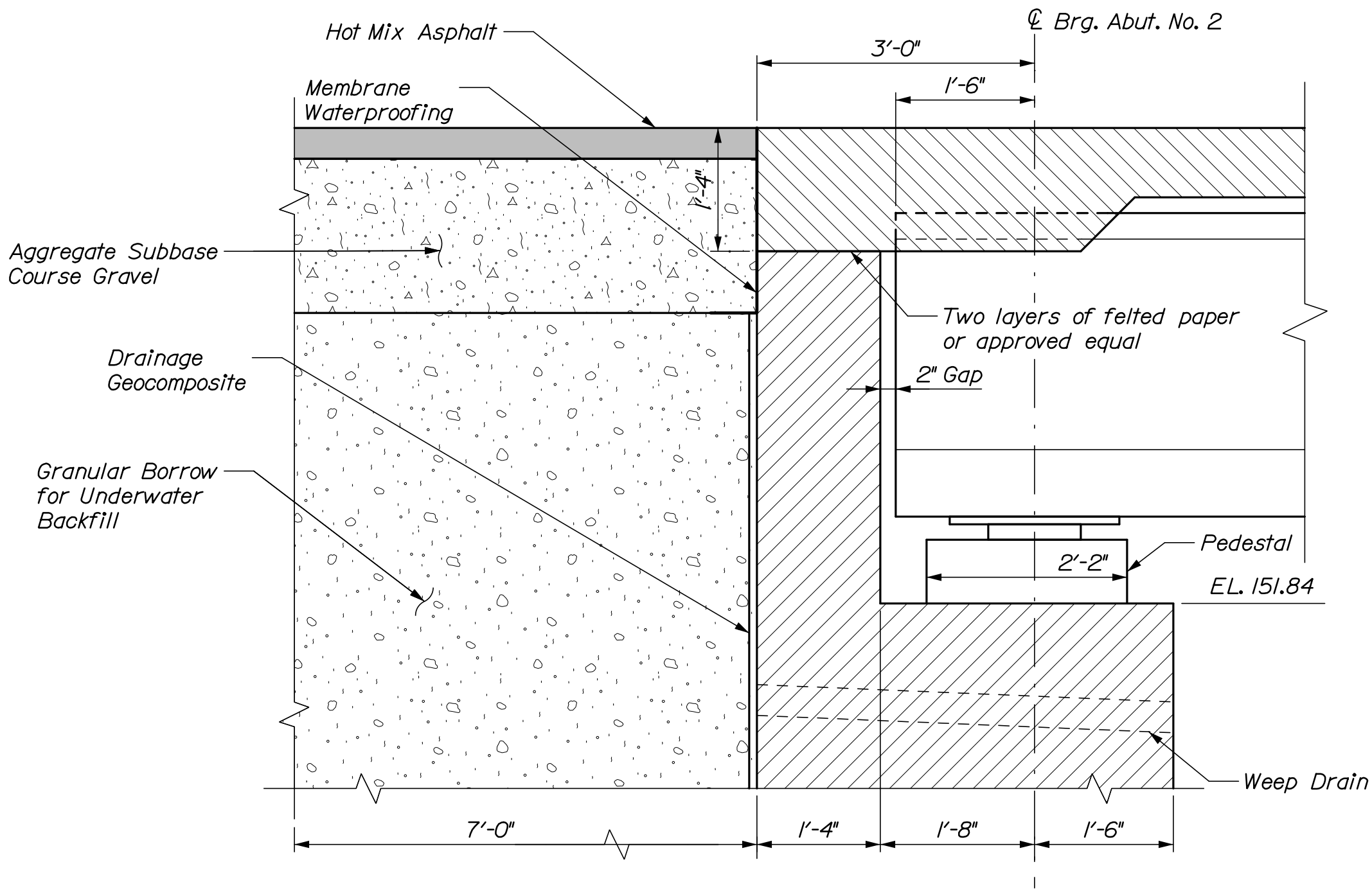
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Division:

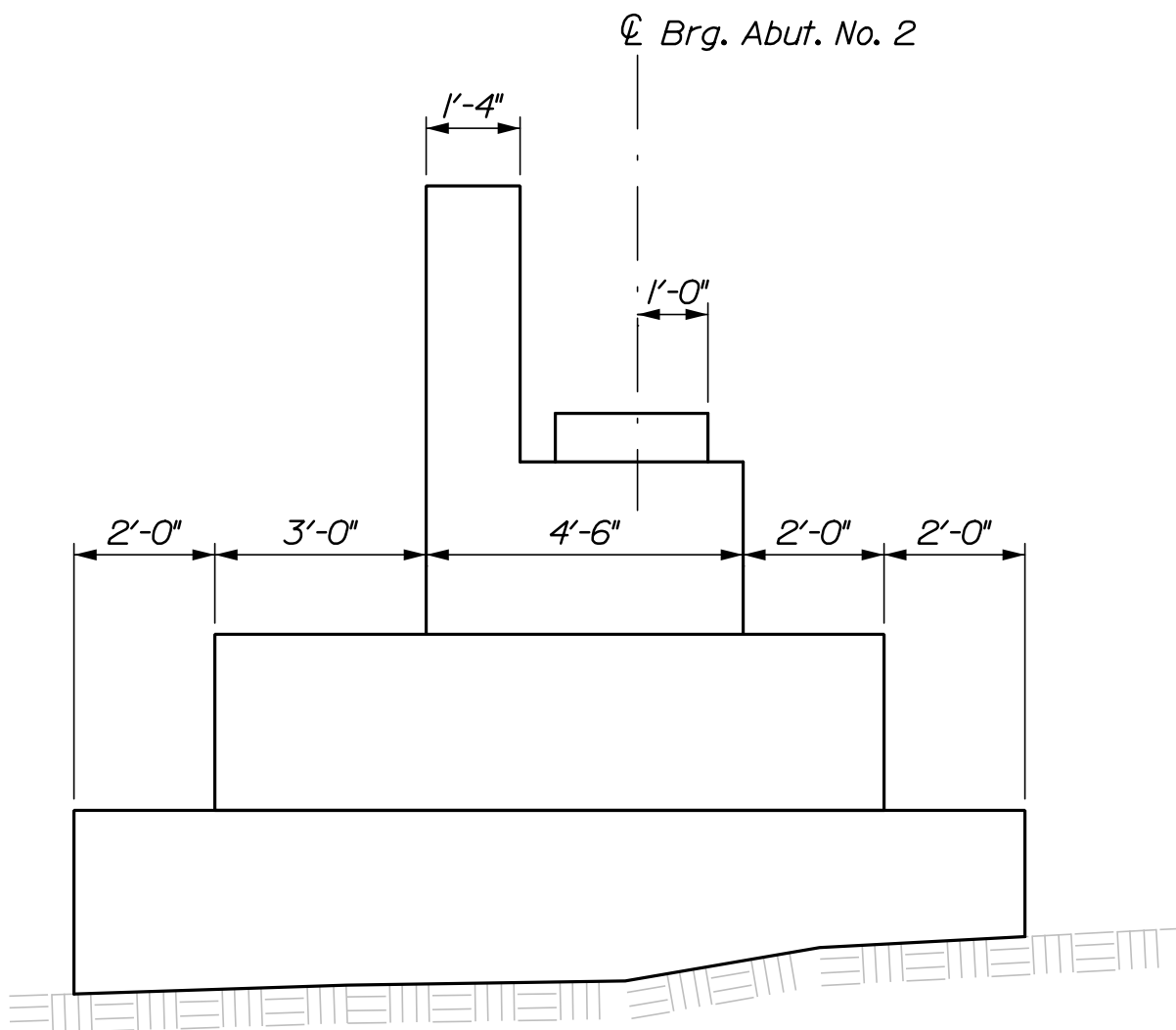
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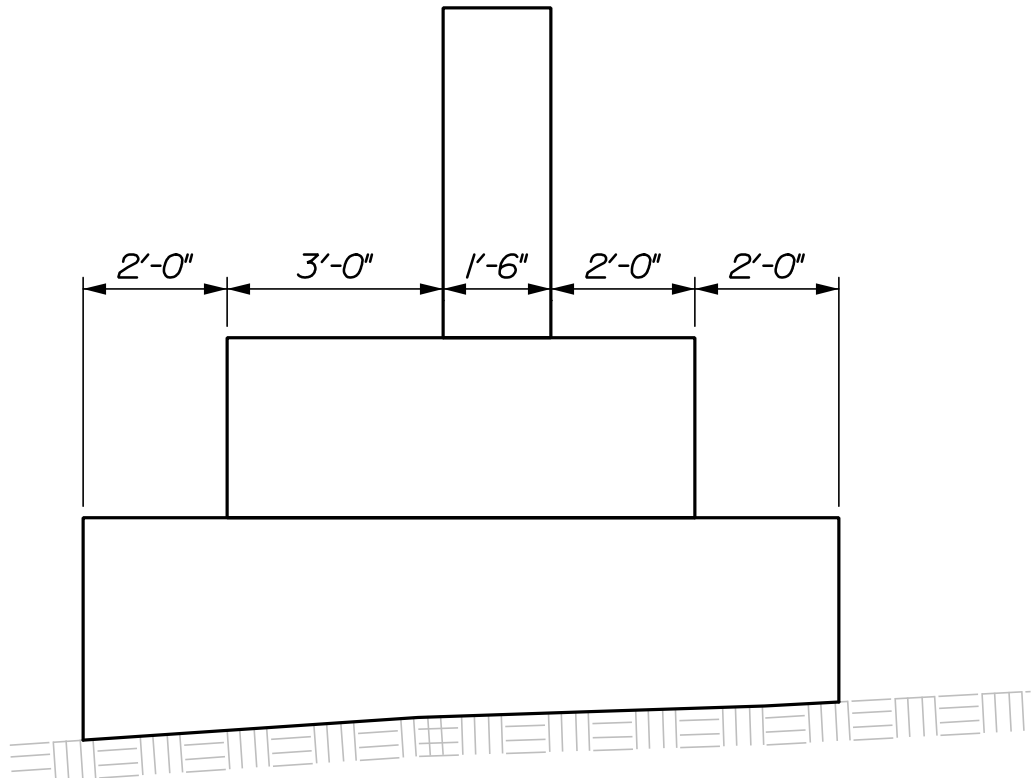
ABUTMENT NO. 2 ELEVATION



ABUTMENT 2 TYPICAL SECTION

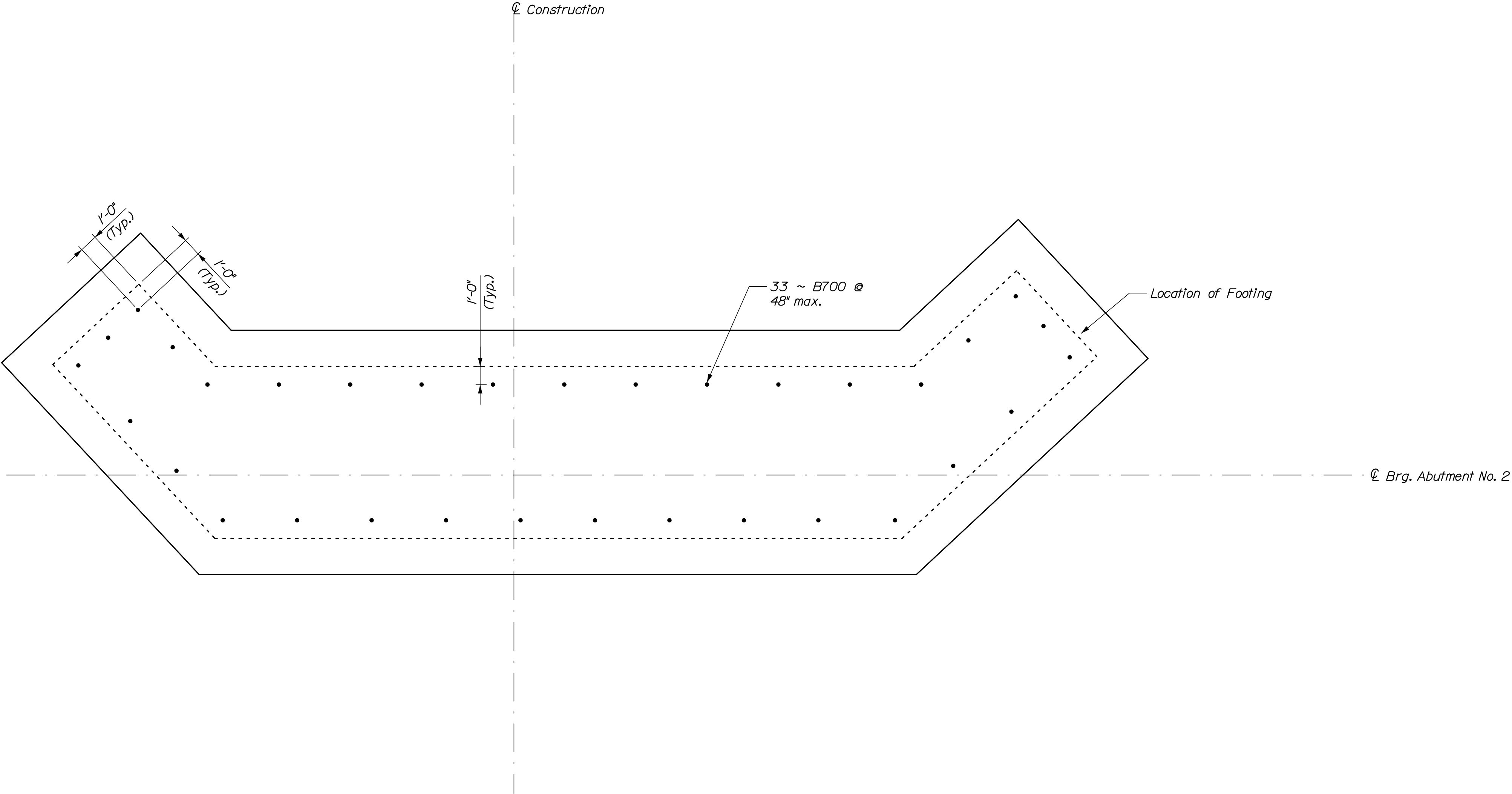


SECTION A-A



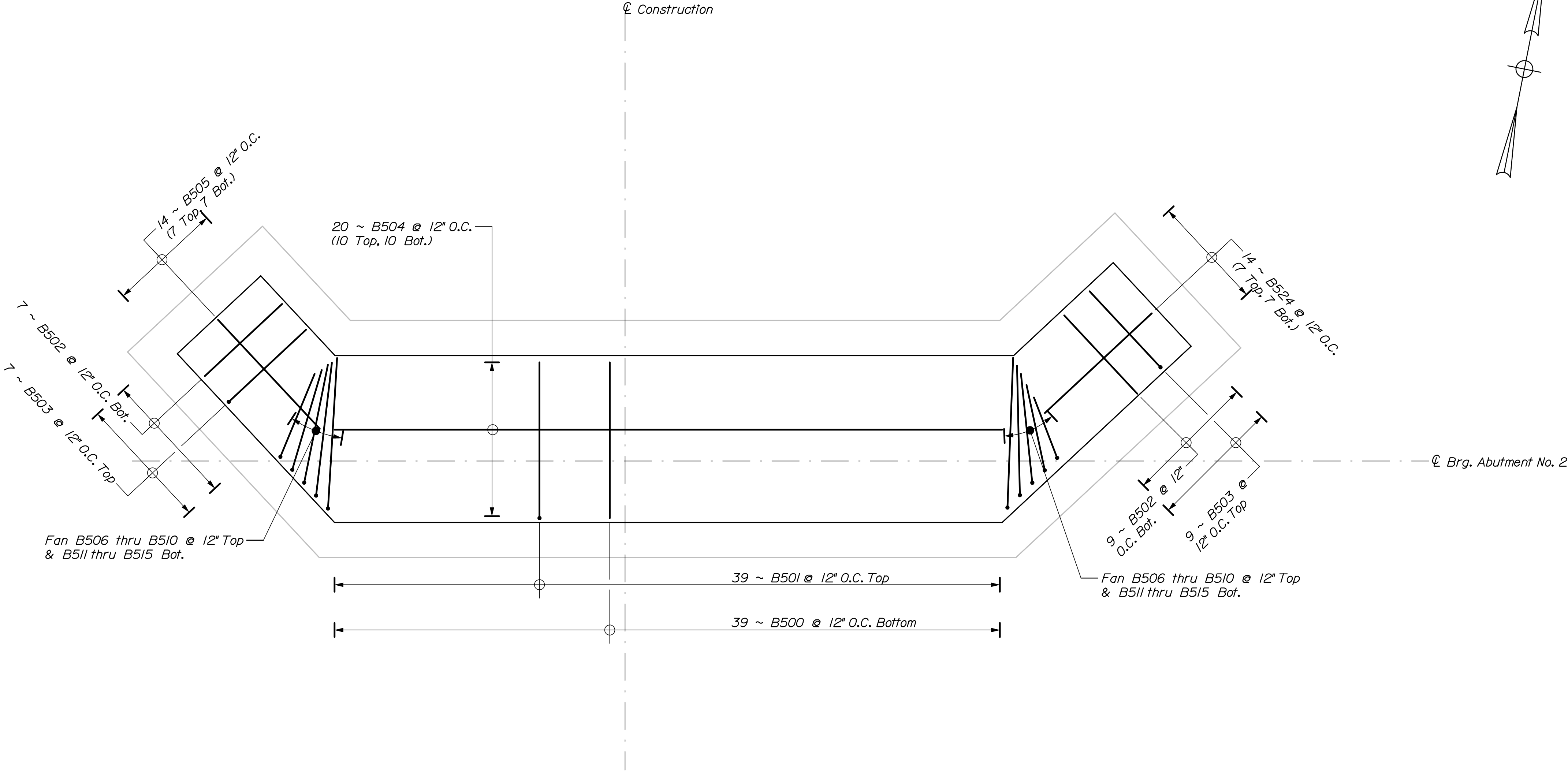
SECTION B-B

STATE OF MAINE DEPARTMENT OF TRANSPORTATION WIN 18970.00	BRIDGE PLANS	
	BRIDGE NO. 5007	
LISBON CENTER BRIDGE SABATTUS RIVER ANDROSCOGGIN LISBON ABUTMENT NO. 2 ELEVATIONS	PROJ. MANAGER	J. Kittredge
	CHECKED-DESIGNED	R. Nious
	REVIEWED	HNIB
	DESIGNED-DETAILED	HNIB
	DESIGNED	HNIB
SHEET NUMBER 29 OF 53	DATE	12/17
	BY	HNIB
	SIGNATURE	
	P.E. NUMBER	
	DATE	



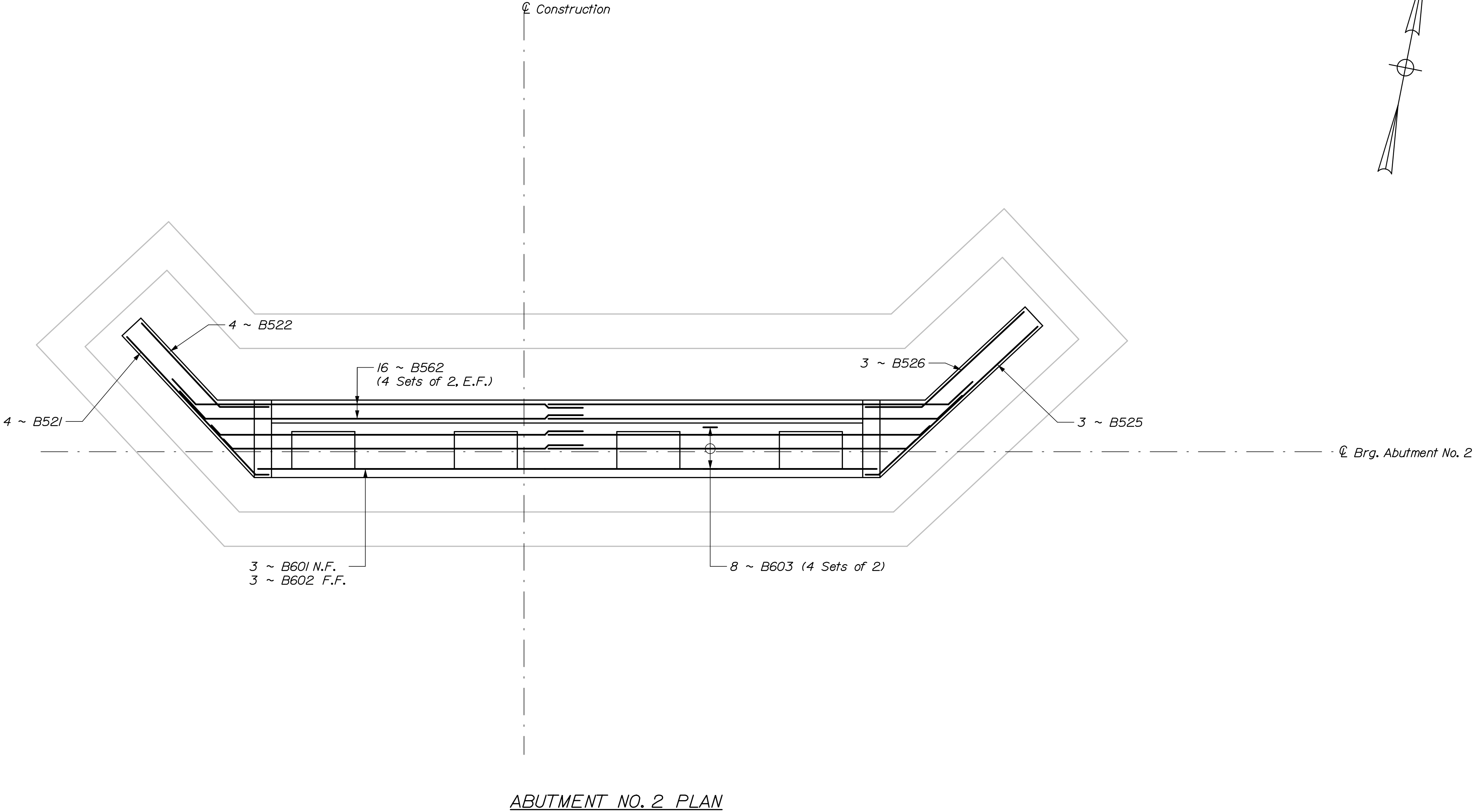
ABUTMENT NO. 2 SEAL PLAN

SHEET NUMBER		LISBON CENTER BRIDGE			PROJ. MANAGER		J. Kittredge		BY		DATE		STATE OF MAINE	
30		SABATTUS RIVER			DESIGN-DETAILED		R. Nious		HNTB		12/17		DEPARTMENT OF TRANSPORTATION	
		ANDROSCOGGIN			CHECKED-REVIEWED		HNTB				12/17			
					DESIGN2-DETAILED2								SIGNATURE	
					DESIGN3-DETAILED3									
OF 53		ABUTMENT NO. 2			REVISIONS 1								WIN 18970.00	
					REVISIONS 2									
					REVISIONS 3									
					REVISIONS 4									
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													BRIDGE PLANS	



ABUTMENT NO. 2 FOOTING PLAN

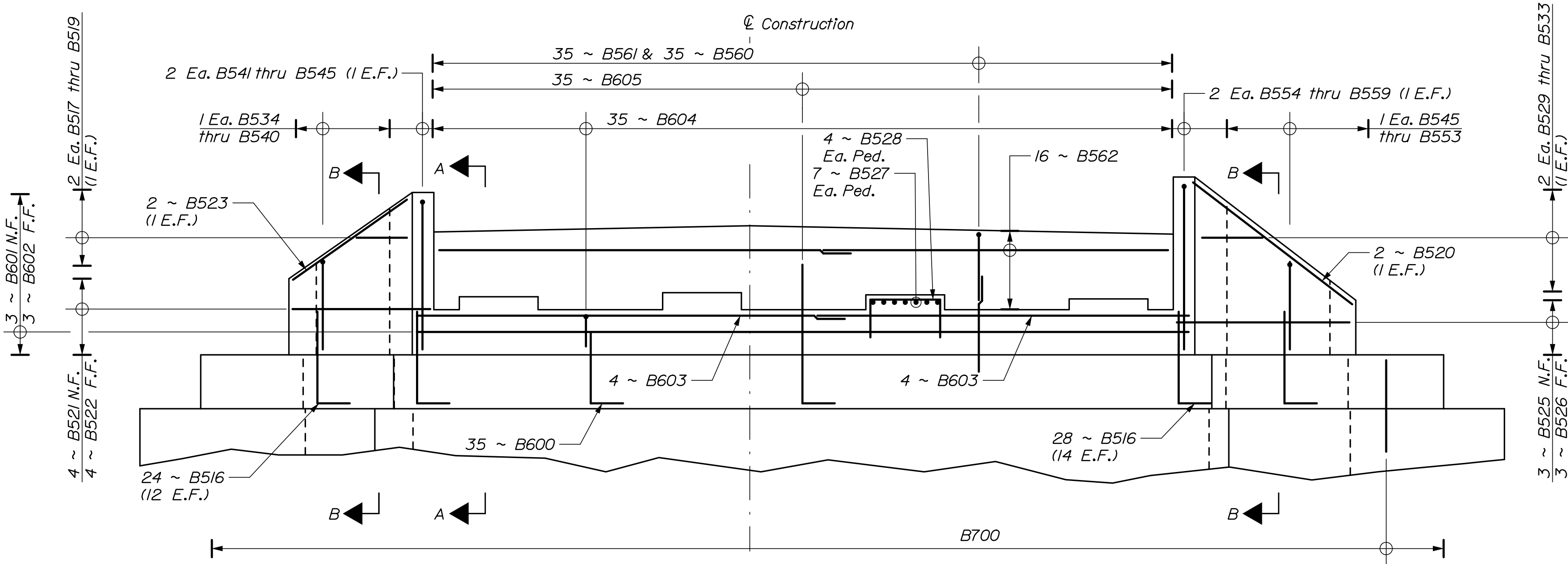
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	WIN 18970.00			
	BRIDGE NO. 5007			
SHEET NUMBER 31 OF 53		BRIDGE PLANS		



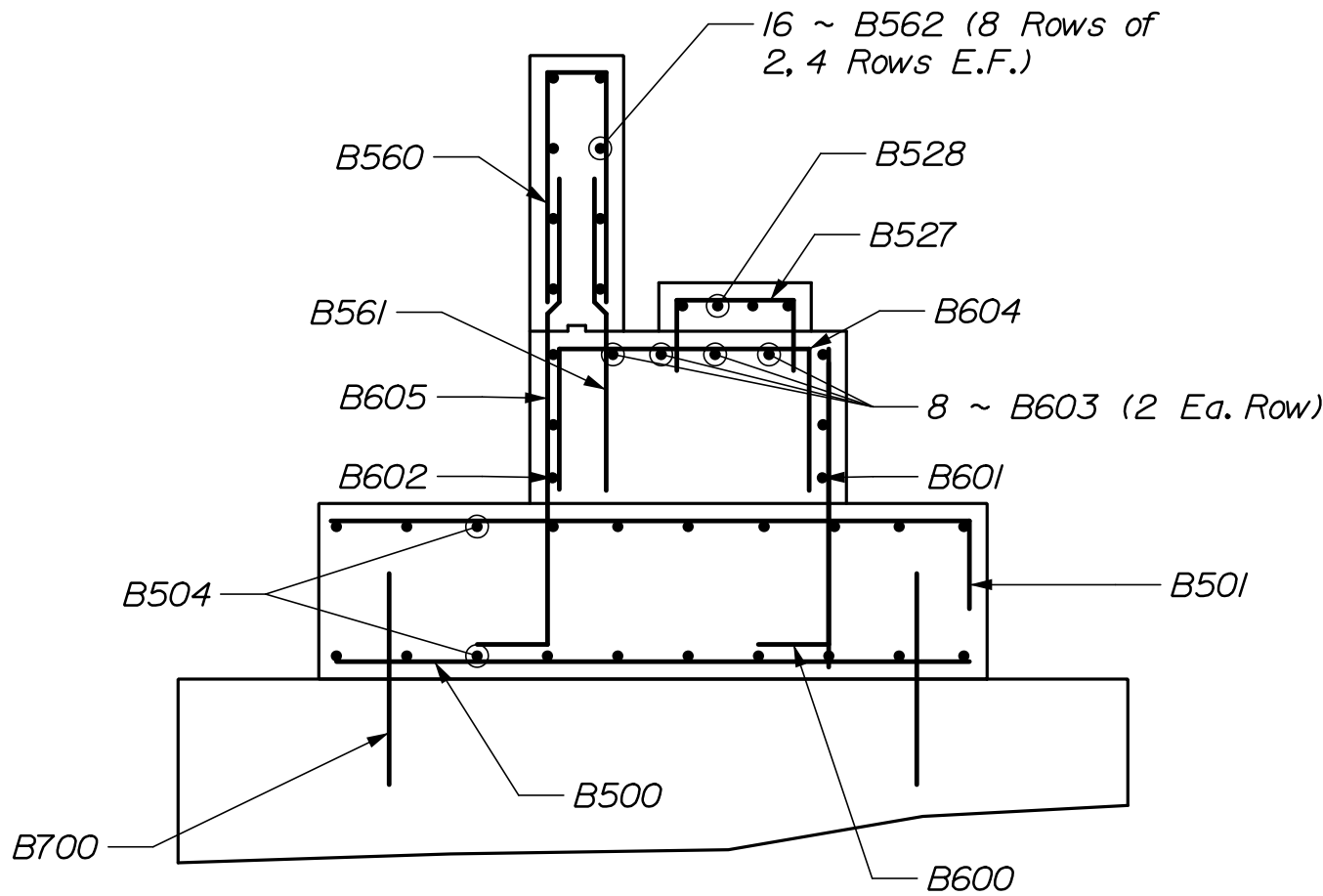
LISBON CENTER BRIDGE SABATTUS RIVER LISBON ANDROSCOGGIN	STATE OF MAINE			
	DEPARTMENT OF TRANSPORTATION			
	WIN 18970.00			
	BRIDGE NO. 5007			
ABUTMENT NO. 2 PLAN REINFORCING PLAN	PROJ. MANAGER	J. Kittredge	BY	DATE
	DESIGN-DETAILED	R. Nious	HTB	12/17
	CHECKED-REVIEWED	HTB	-	12/17
	DESIGN-DETAILED2	-	-	-
SHEET NUMBER	REVISIONS 1	-	-	SIGNATURE
	REVISIONS 2	-	-	P.E. NUMBER
	REVISIONS 3	-	-	DATE
	REVISIONS 4	-	-	-
32	OF	53	BRIDGE PLANS	

Notes:

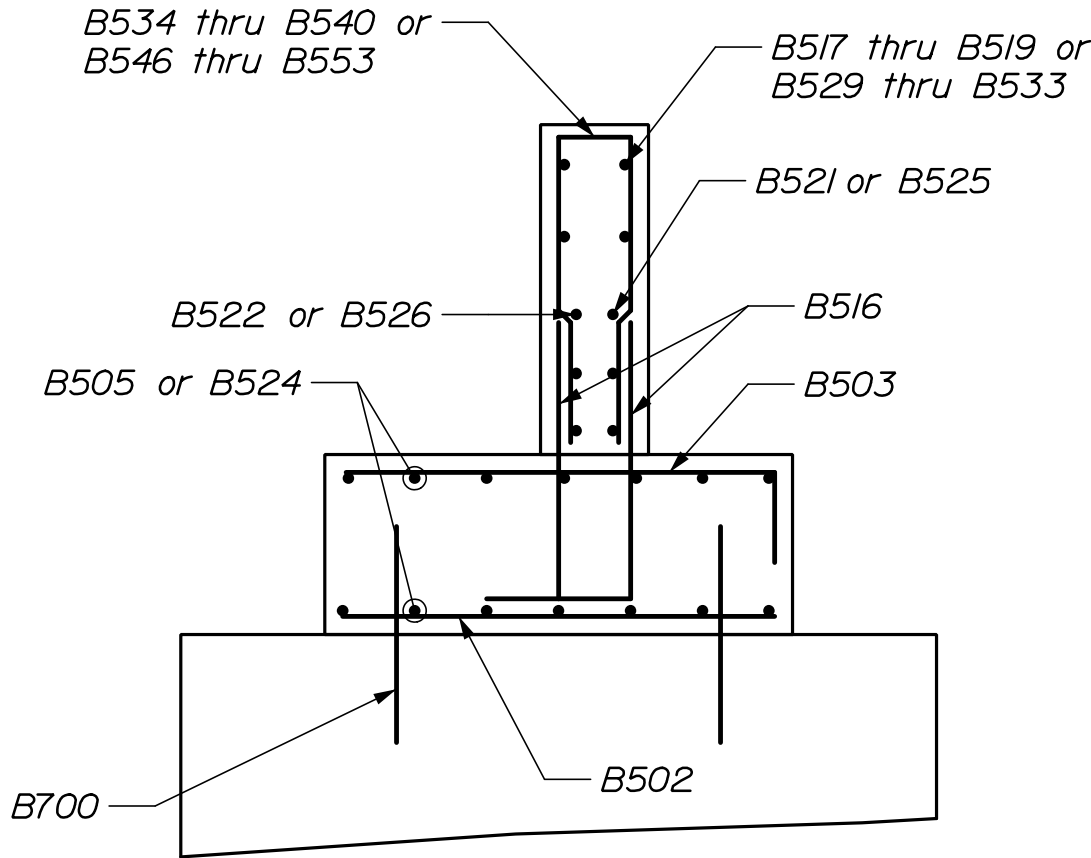
1. For reinforcement around utilities, refer to the "Abutment No. 1 Elevation Reinforcing" sheet.



ABUTMENT NO. 2 ELEVATION
 (Utility hole reinforcing not shown for clarity)

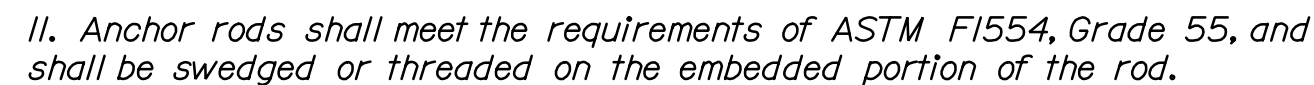
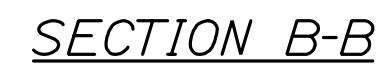


SECTION A-A

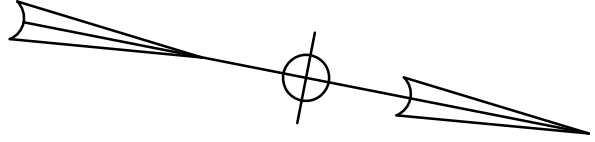
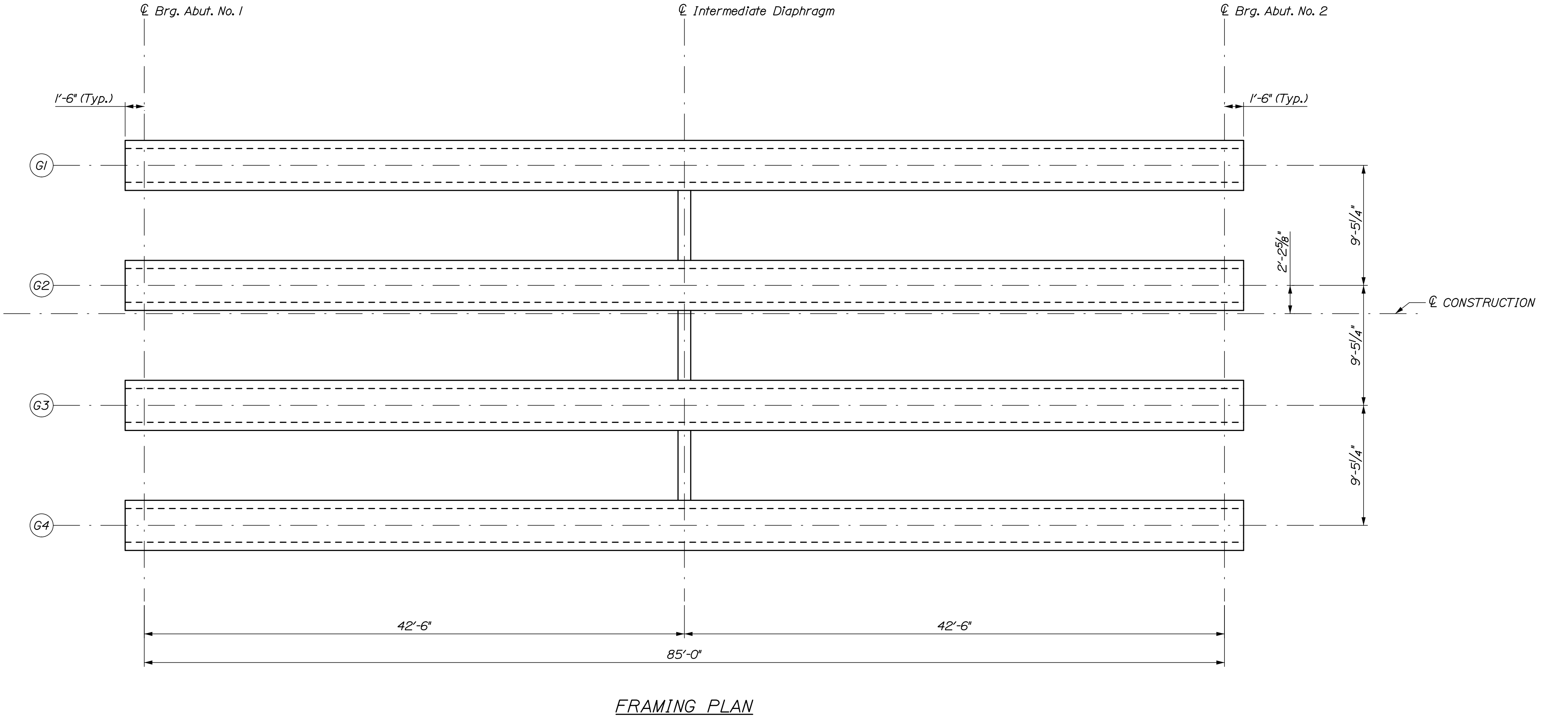


SECTION B-B

SHEET NUMBER				STATE OF MAINE			
LISBON CENTER BRIDGE SABATTUS RIVER ANDROSCOGGIN ABUTMENT NO. 2 ELEVATIONS REINFORCING				PROJ. MANAGER	J. Kittredge	BY	DATE
				DESIGN-DETAILED	R. Nious	HNTB	12/17
				CHECKED-REVIEWED	HNTB	-	12/17
				DESIGN2-DETAILED2	-	-	SIGNATURE
				DESIGN3-DETAILED3	-	-	P.E. NUMBER
				REVISIONS 1	-	-	
				REVISIONS 2	-	-	
				REVISIONS 3	-	-	
				REVISIONS 4	-	-	DATE
				FIELD CHANGES	-	-	
				BRIDGE NO. 5007			
				BRIDGE PLANS			



<i>Elastomeric Bearing Design Criteria</i>	
<i>Criteria</i>	<i>Abut. bearings</i>
<i>Unfactored dead load</i>	<i>108 kips</i>
<i>Unfactored live load</i>	<i>83 kips</i>
<i>Max. Shear Deformation</i>	<i>0.480 inch</i>
<i>Max. Dead Load Rotation</i>	<i>0.0132 rad.</i>
<i>Max. Live Load Rotation</i>	<i>0.0025 rad.</i>
<i>Max. Rotation Due to Camber</i>	<i>0.0148 rad.</i>
<i>Allowance for Uncertainties</i>	<i>0.005 rad.</i>

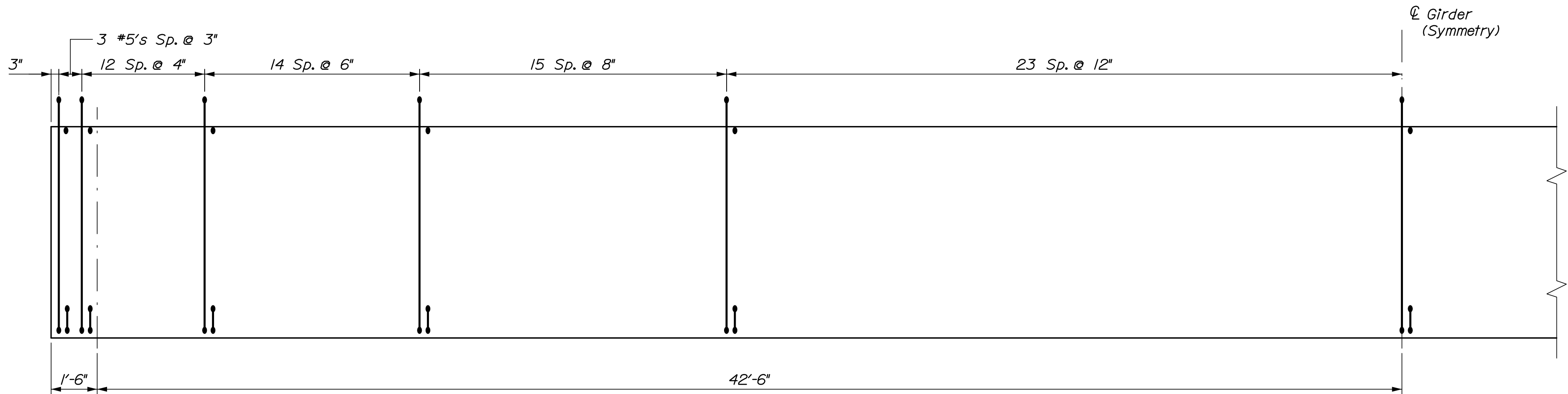


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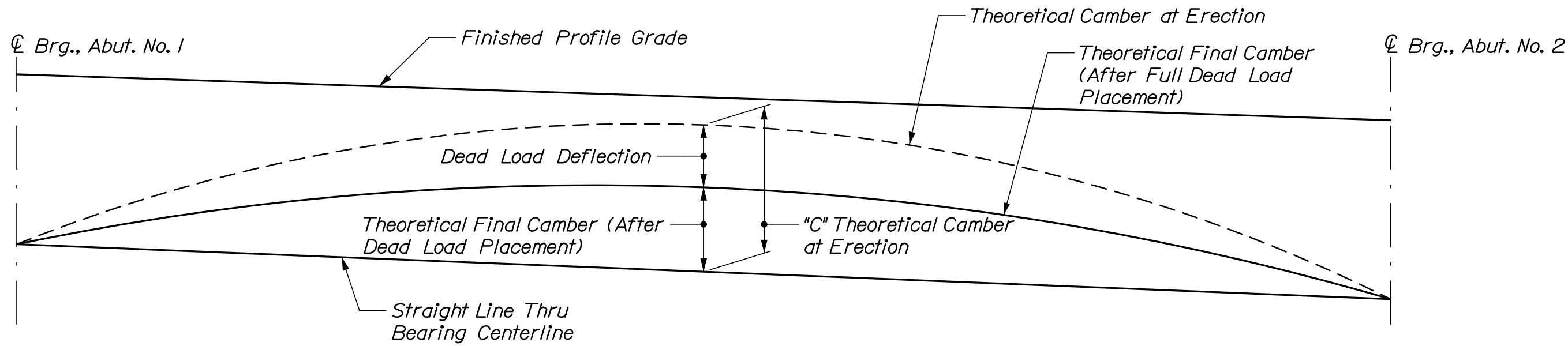
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Division:

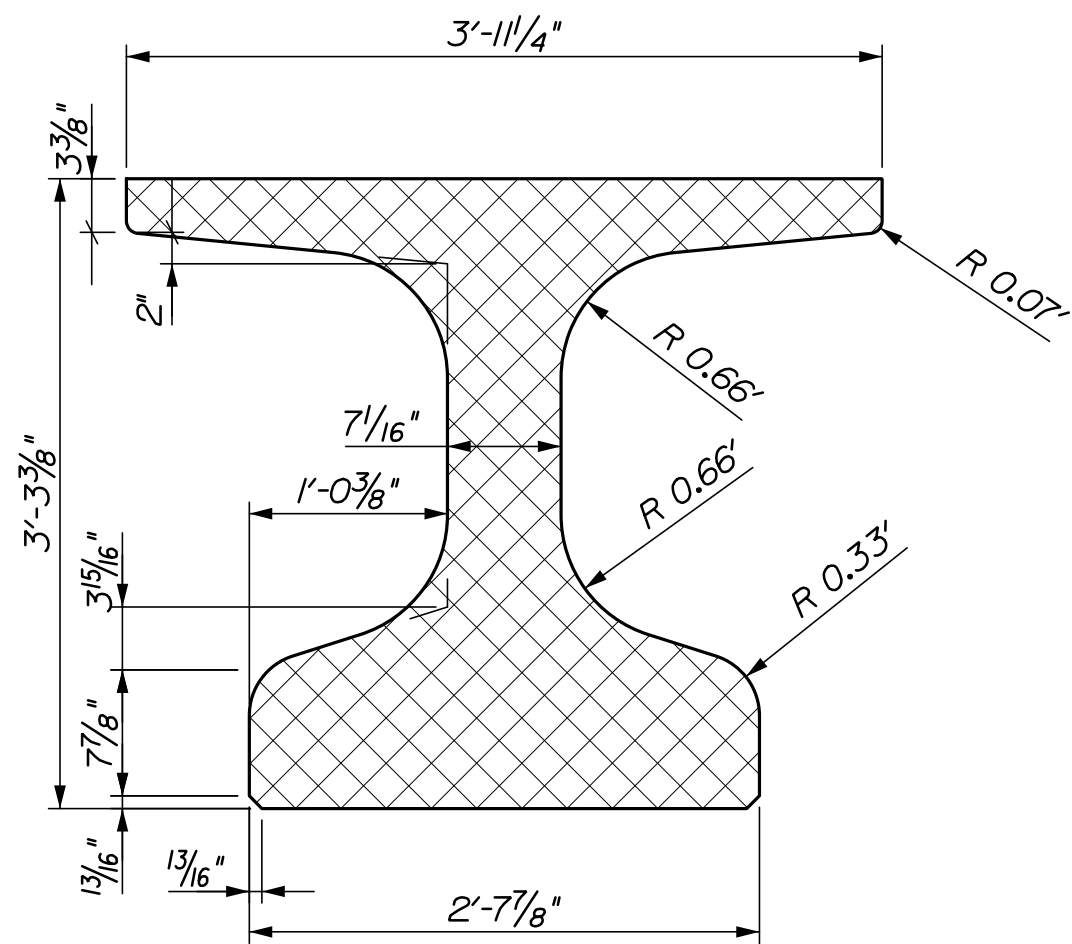
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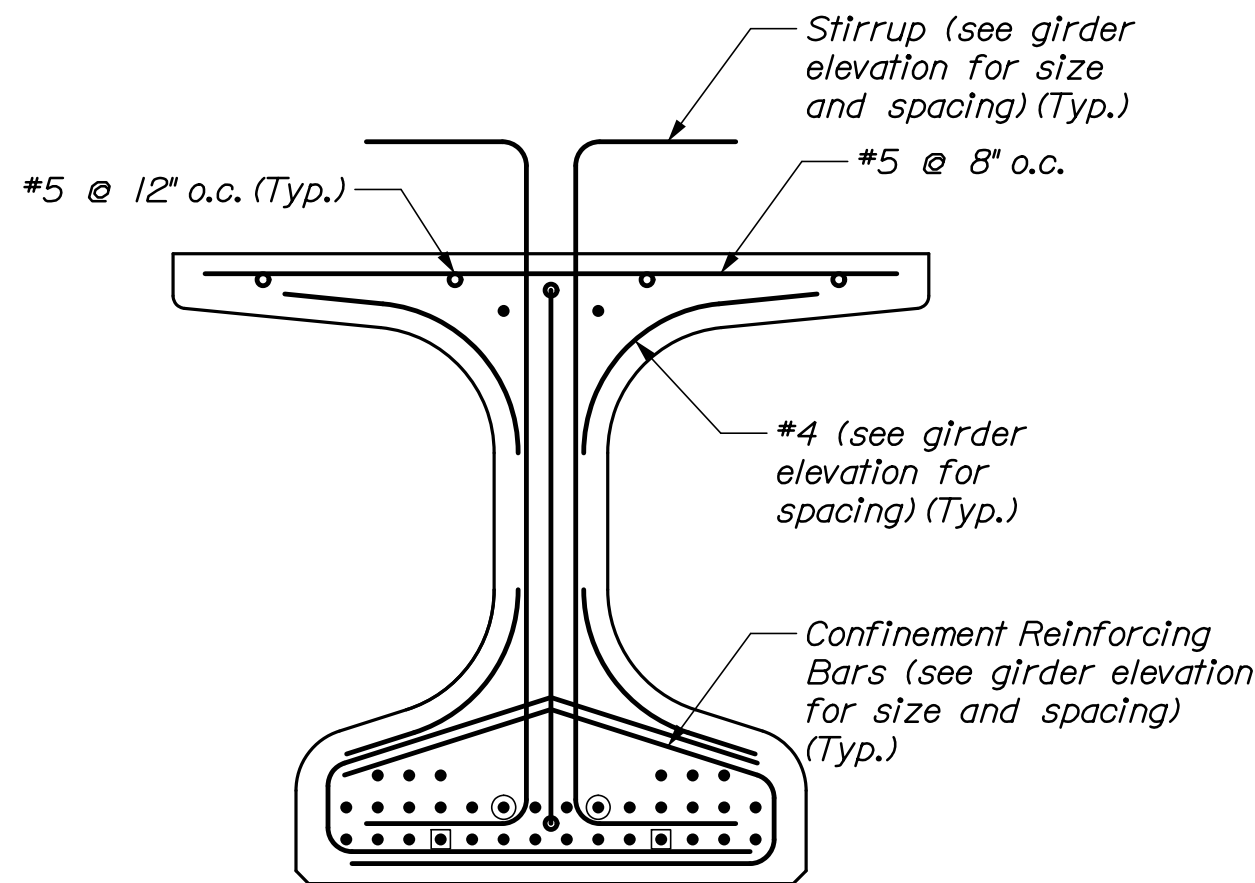
NEBT 39 PRECAST GIRDER - G1 AND G4
Reinforcing layout
Vertically Exaggerated for Clarity
(All bars #4 unless otherwise noted)



NEXT BEAM CAMBER DIAGRAM
Not to Scale



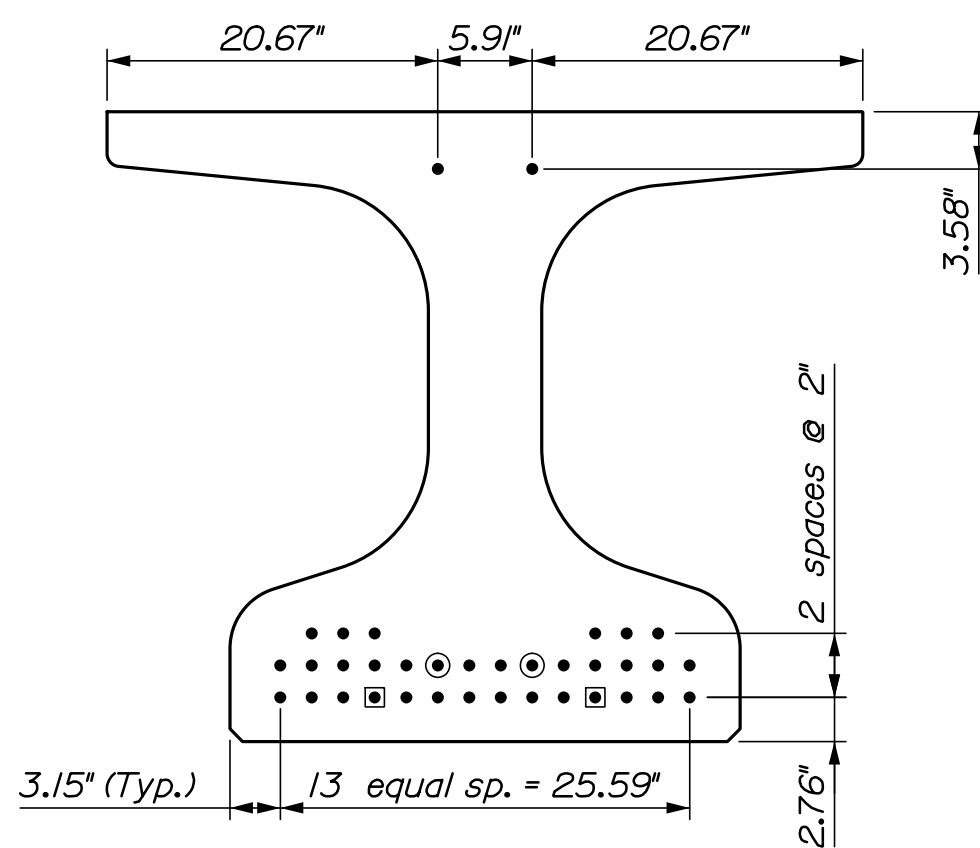
TYPICAL GIRDER SECTION
NEBT 39



GIRDER REINFORCING
G1 AND G4

All Strands ~ 0.6"φ
f'ci = 6.5 ksi
f'c = 8.0 ksi

Span = 85'
One diaphragm @ midspan



PRESTRESSING STRANDS
G1 AND G4

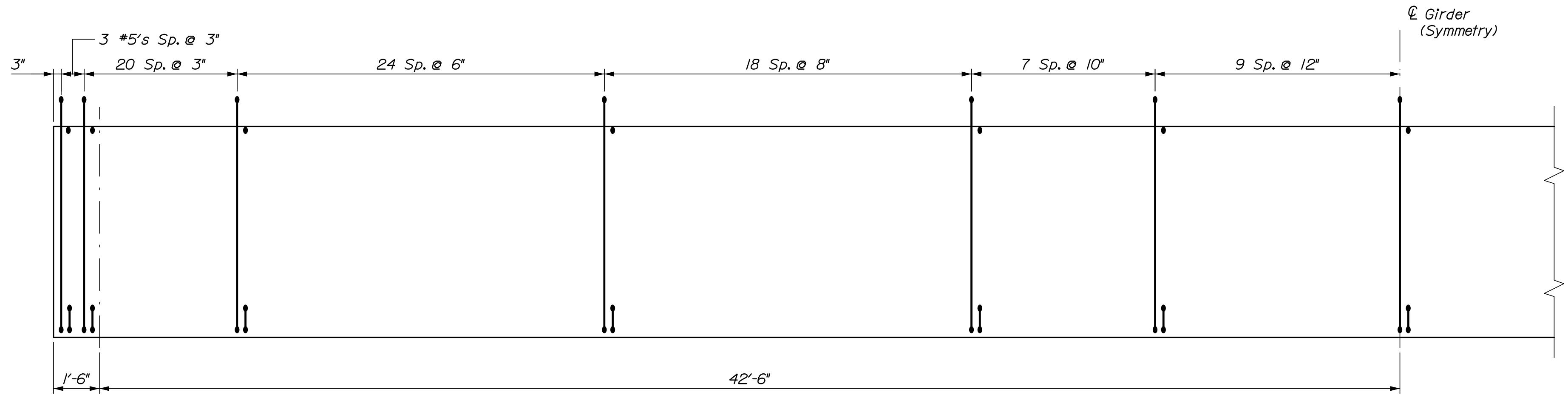
PRECAST CONCRETE SUPERSTRUCTURE NOTES:

1. Prestressing strands shall be 0.6-in. diameter. The tensioning force is 44 kips per prestressing strand.
2. Reinforcing steel shall have a minimum concrete cover of 2 inches unless otherwise noted.
3. The estimated camber for G1 and G4 at release is 2 1/8 inches and the estimated camber at erection, "C", is 4 5/8 inches. The estimated camber for G2 and G3 at release is 2 1/2 inches and the estimated camber at erection, "C", is 5 inches. Refer to Special Provision 535, Precast, Prestressed Concrete Superstructure - Camber.
4. The top surface of the upper flange of the prestressed beams shall be raked to a surface roughness of 1/4 inch, except at locations corresponding to the blocking points. At these locations a flattened area of sufficient size shall be finished to facilitate taking elevations for setting bottom of slab elevations.
5. The drilling of holes in the prestressed beams and the use of power actuated tools on the beams will not be permitted.

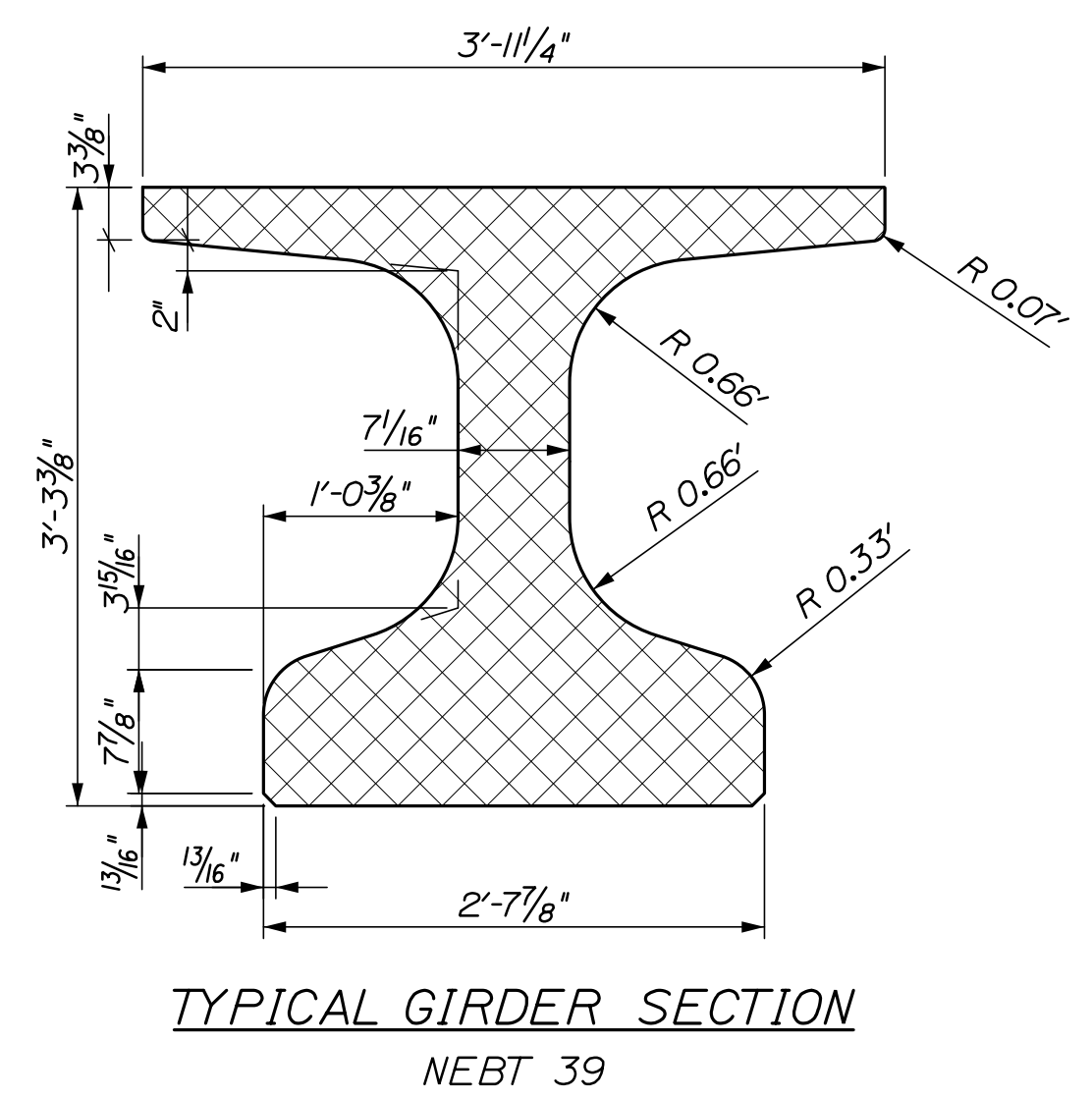
PRESTRESSING LEGEND

- ~ Steel Reinforcing
- ~ Strand
- ⊙ ~ Debonded Strand 4' at Each End
- ▣ ~ Debonded Strand 8' at Each End

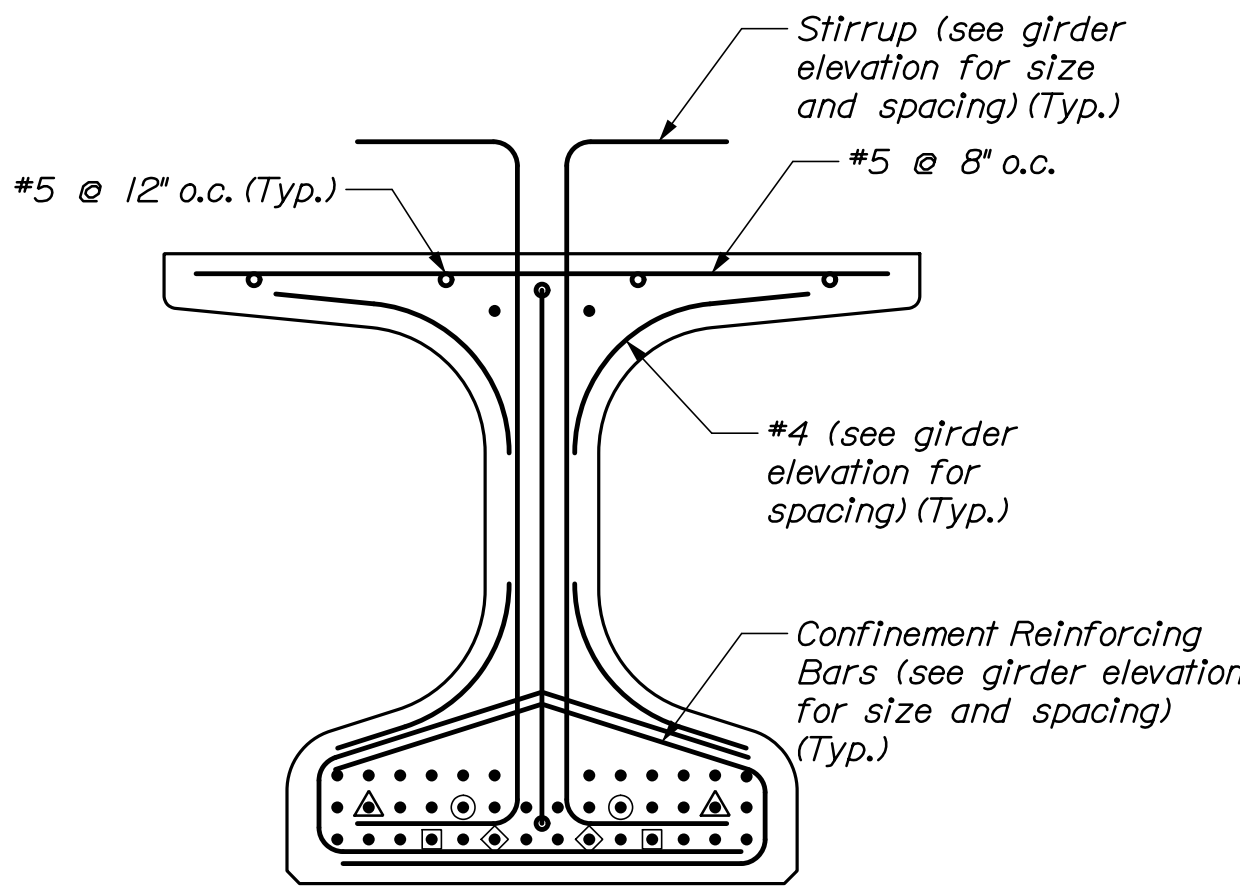
STATE OF MAINE DEPARTMENT OF TRANSPORTATION WIN 18970.00	SHEET NUMBER			
	36			
	OF 53			
LISBON CENTER BRIDGE SABATTUS RIVER ANDROSCOGGIN LISBON	PROJ. MANAGER J. Kittredge	BY HNTB	DATE 12/17	SIGNATURE
BEAM DETAILS 1	DESIGN-DETAILED R. Nious	CHECKED-REVIEWED HNTB	DATE 12/17	P.E. NUMBER
BRIDGE PLANS BRIDGE NO. 5007	REVISIONS 1 REVISIONS 2 REVISIONS 3 REVISIONS 4 FIELD CHANGES	DATE	DATE	DATE



NEBT 39 PRECAST GIRDER - G2 AND G3
Reinforcing layout
Vertically Exaggerated for Clarity
(All bars #4 unless otherwise noted)

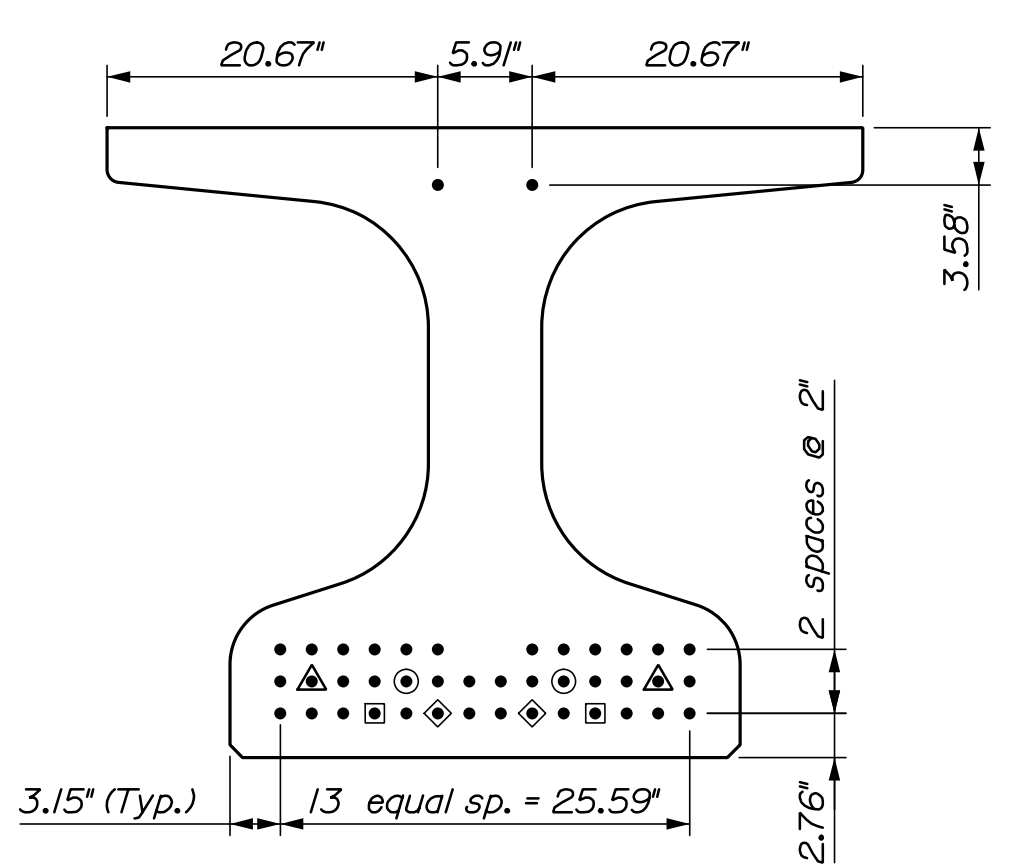


TYPICAL GIRDER SECTION
NEBT 39



GIRDER REINFORCING
G2 AND G3

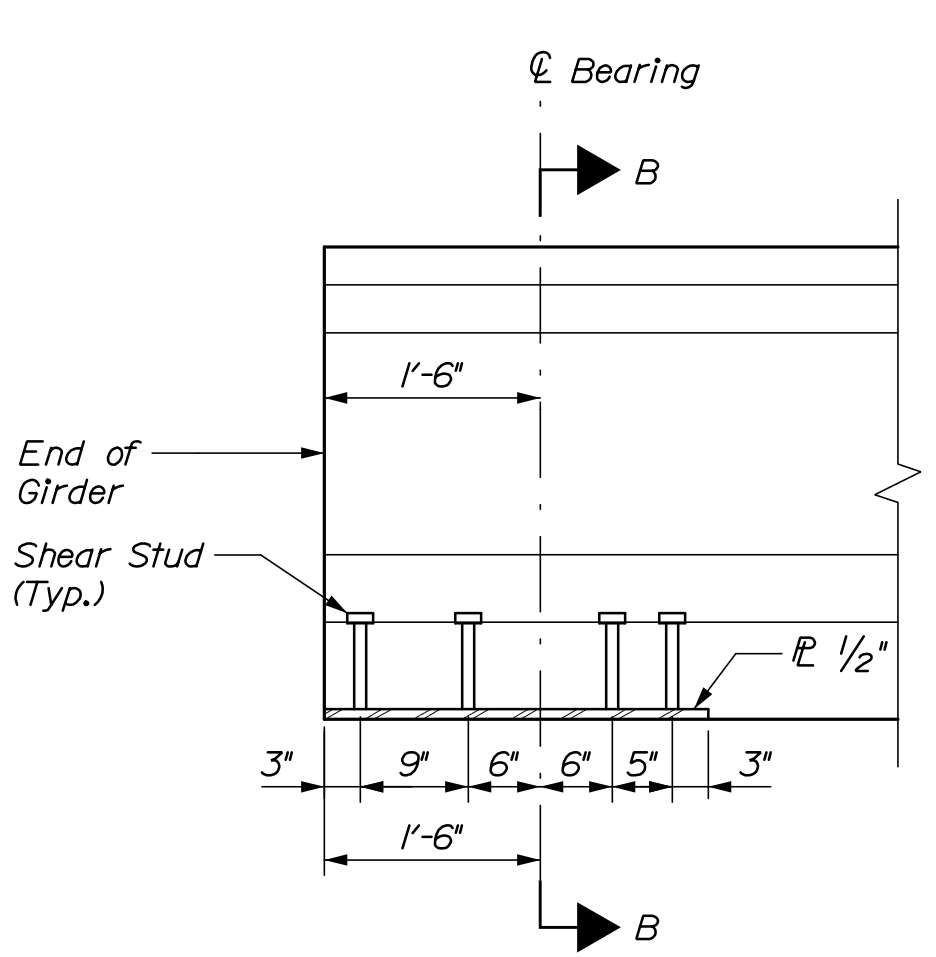
All Strands ~ 0.6"φ
f'ci = 6.5 ksi
f'c = 8.0 ksi
Span = 85'
One diaphragm @ midspan



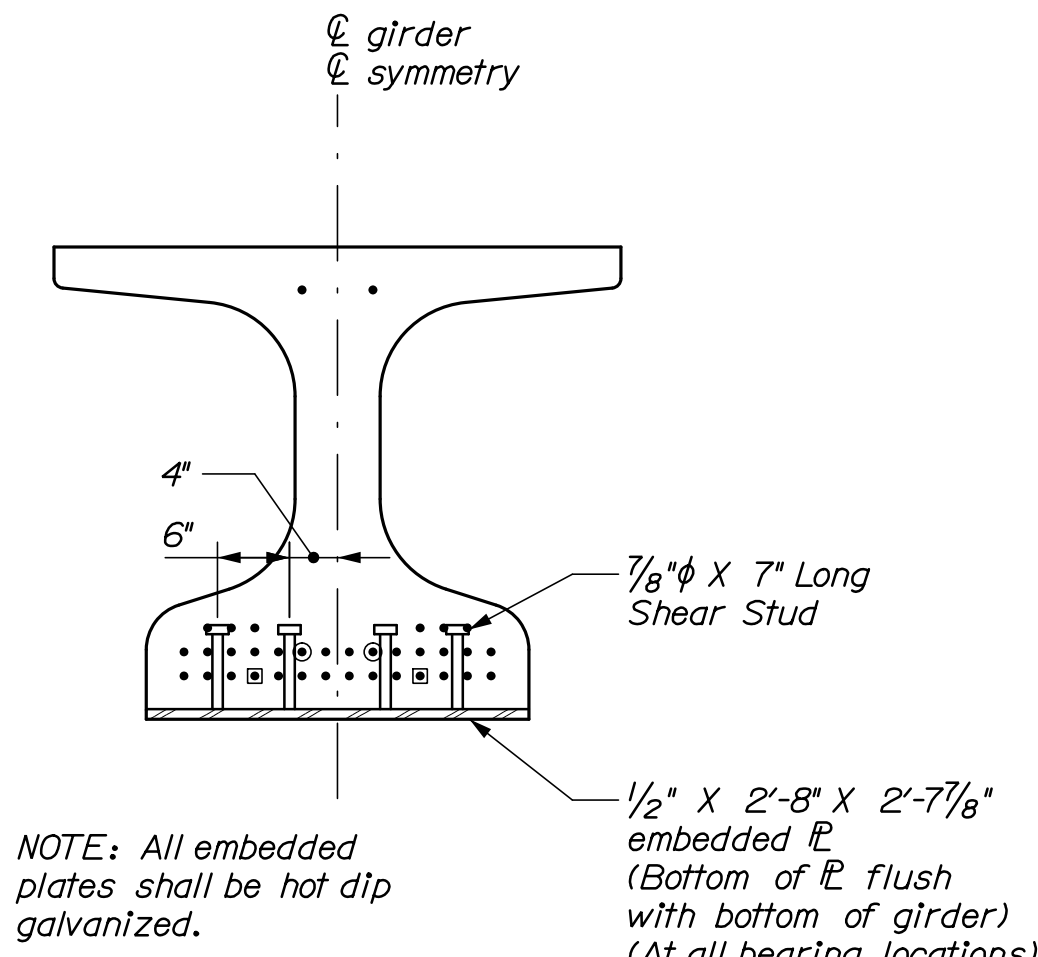
PRESTRESSING STRANDS
G2 AND G3

- PRESTRESSING LEGEND
- ~ Steel Reinforcing
 - ~ Strand
 - ▲ ~ Debonded Strand 6' at Each End
 - ⊙ ~ Debonded Strand 8' at Each End
 - ~ Debonded Strand 20' at Each End
 - ◆ ~ Debonded Strand 25' at Each End

STATE OF MAINE DEPARTMENT OF TRANSPORTATION WIN 18970.00					BRIDGE NO. 5007 BRIDGE PLANS
LISBON CENTER BRIDGE SABATTUS RIVER ANDROSCOGGIN LISBON BEAM DETAILS 2	PROJ. MANAGER	J. Kittredge	BY	DATE	SIGNATURE
	DESIGN-DETAILED	R. Nious	HNTB	12/17	
	CHECKED-REVIEWED	HNTB	-	12/17	
	DESIGN-DETAILED2	-	-	-	
	DESIGN-DETAILED3	-	-	-	
LISBON BEAM DETAILS 2	REVISIONS 1	-	-	-	P.E. NUMBER
	REVISIONS 2	-	-	-	
	REVISIONS 3	-	-	-	
	REVISIONS 4	-	-	-	
	FIELD CHANGES	-	-	-	
SHEET NUMBER	37				OF 53



BEAM END ELEVATION

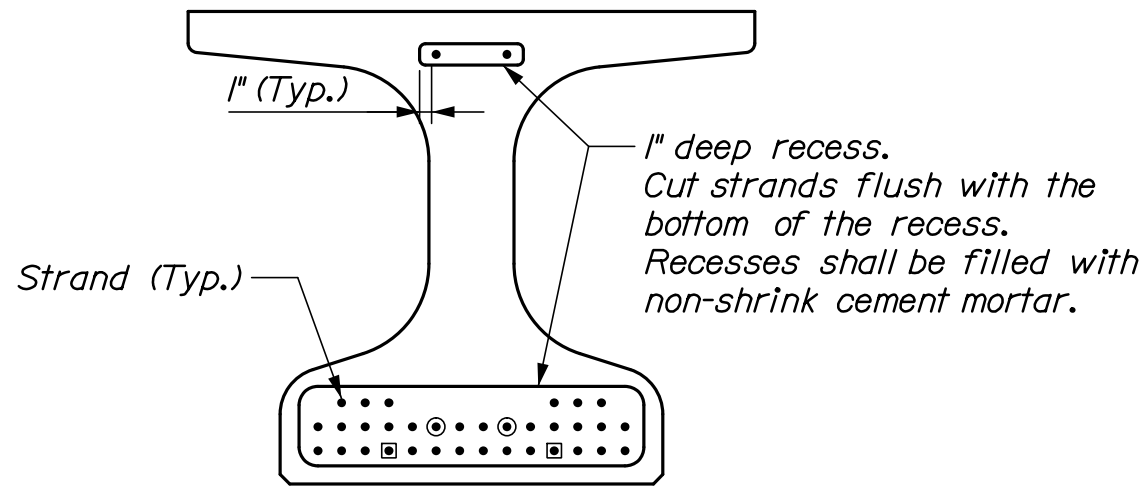


SECTION B-B
Exterior Girders 1 & 4

TYPE OF GIRDER	NO. STRANDS	f'_c	f'_{ci}	F_i	$g \text{ } \varnothing$	$g \text{ end}$
NEBT 39	36	8,000	6,500	1,584	6.03"	6.30"

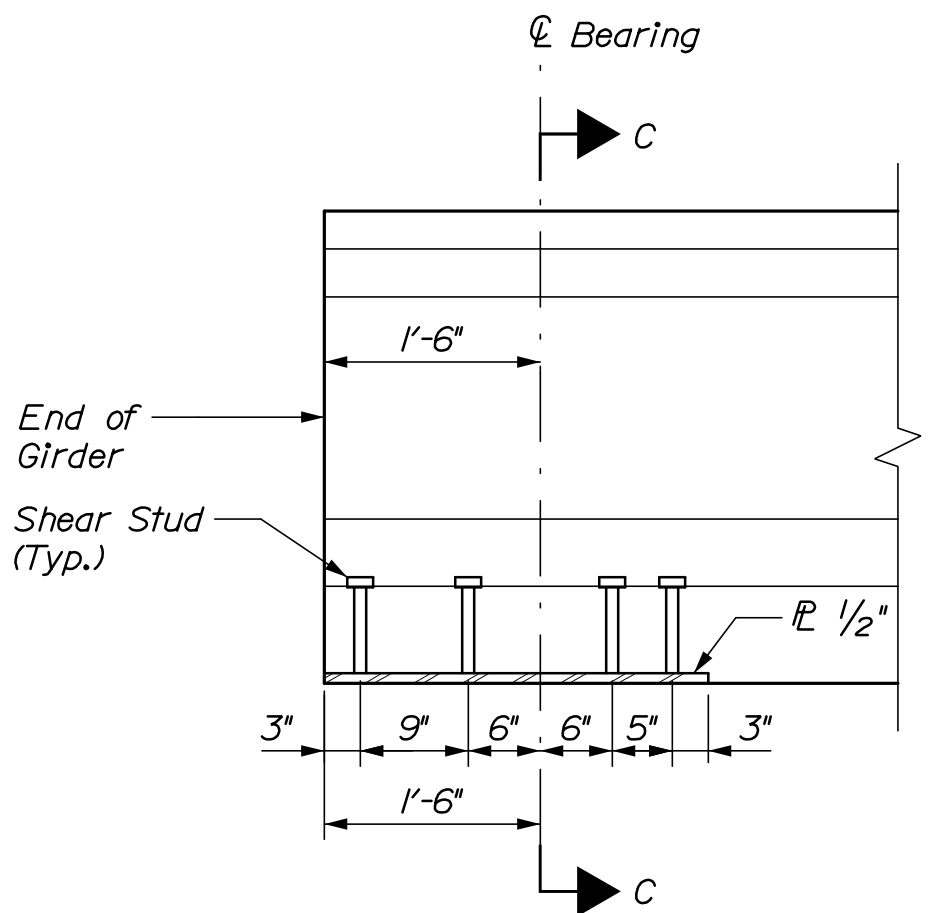
Initial prestress force per strand before losses: 34 strands @ 44 kips
2 strands @ 44 kips

f'_c = 28 day compressive strength of concrete (psi).
 f'_{ci} = Concrete compressive strength at release of prestress force (psi).
 F_i = Total initial prestress force before losses (kips).
 $g \text{ } \varnothing$ = Distance from bottom of girder to C.G. of all prestressing strands at girder centerline (inches) (see girder elevation).
 $g \text{ end}$ = Distance from bottom of girder to C.G. of all prestressing strands at end of girder (inches) (See girder elevation).

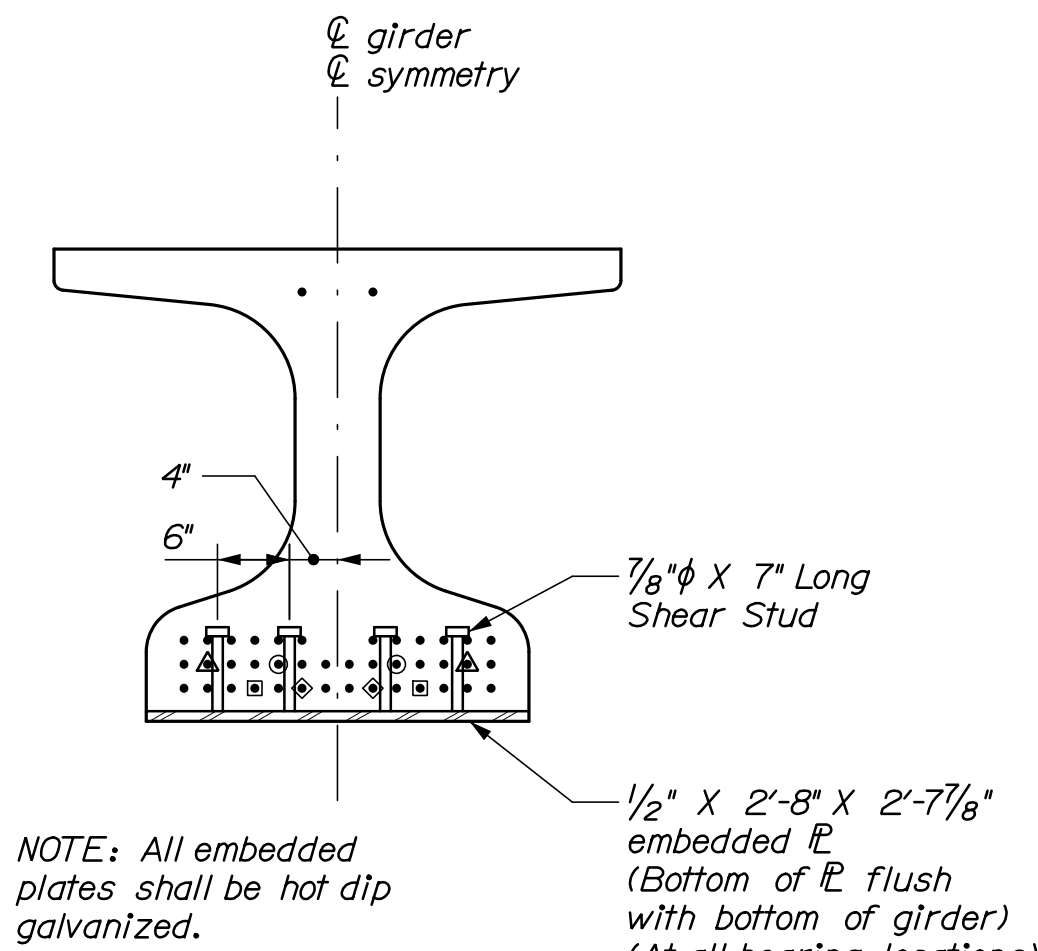


NOTE: Recesses may be made for a single strand or for the entire group of strands.

STRAND END PROTECTION



BEAM END ELEVATION

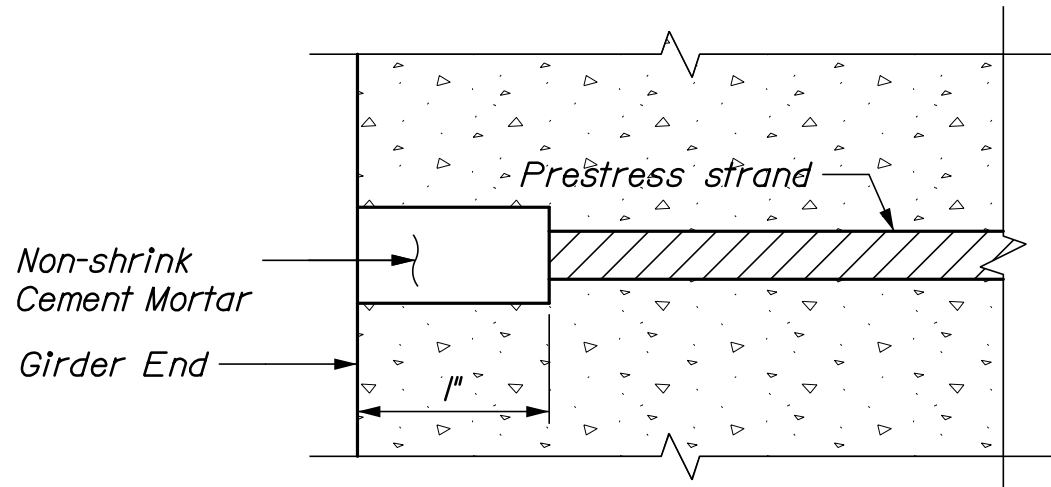


SECTION C-C
Interior Girders 2 & 3

TYPE OF GIRDER	NO. STRANDS	f'_c	f'_{ci}	F_i	$g \text{ } \varnothing$	$g \text{ end}$
NEBT 39	42	8,000	6,500	1,848	6.12"	6.68"

Initial prestress force per strand before losses: 40 strands @ 44 kips
2 strands @ 44 kips

f'_c = 28 day compressive strength of concrete (psi).
 f'_{ci} = Concrete compressive strength at release of prestress force (psi).
 F_i = Total initial prestress force before losses (kips).
 $g \text{ } \varnothing$ = Distance from bottom of girder to C.G. of all prestressing strands at girder centerline (inches) (see girder elevation).
 $g \text{ end}$ = Distance from bottom of girder to C.G. of all prestressing strands at end of girder (inches) (See girder elevation).



RECESS FOR STRANDS AT GIRDER ENDS

GIRDER	BOTTOM OF SLAB ELEVATIONS										
	℄ Brg., Abut. No. 1	0.1 Span	0.2 Span	0.3 Span	0.4 Span	0.5 Span	0.6 Span	0.7 Span	0.8 Span	0.9 Span	℄ Brg., Abut. No. 2
G1	157.50	157.40	157.31	157.21	157.10	156.96	156.82	156.67	156.49	156.32	156.14
G2	157.69	157.60	157.52	157.42	157.32	157.19	157.04	156.88	156.70	156.52	156.33
G3	157.58	157.49	157.41	157.31	157.21	157.08	156.93	156.77	156.59	156.41	156.22
G4	157.39	157.29	157.20	157.10	156.99	156.86	156.71	156.56	156.38	156.21	156.03

NOTES:

- All bolts shall be 7/8" ϕ unless otherwise noted.
- All pretensioning strands shall be 0.6" ϕ uncoated, seven-wire, low relaxation steel strands conforming to AASHTO M203.
- All reinforcing steel, sleeves, inserts and other items embedded in girders shall be included for payment under Item 535.61, Prestressed Structural Concrete I-Girders.
- At girder diaphragm locations, 1/2" ϕ PVC sleeves shall be provided. All sleeves and threaded inserts shall be placed perpendicular to the girder.
- Suggested end zone reinforcement may be adjusted by fabricator to reflect the fabricator's experience and to reduce the potential for cracking. All adjustments shall be clearly flagged on the girder shop drawings and will be subject to the engineers approval.
- Threaded inserts and embedded plate studs shall not interfere with prestressing strands. Payment for fabrication and installation shall be incidental to Item 535.61, Prestressed Structural Concrete I-Girders.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
WIN 18970.00
BRIDGE NO. 5007
BRIDGE PLANS

LISBON CENTER BRIDGE
SABATTUS RIVER
ANDROSCOGGIN
LISBON
BEAM DETAILS 3

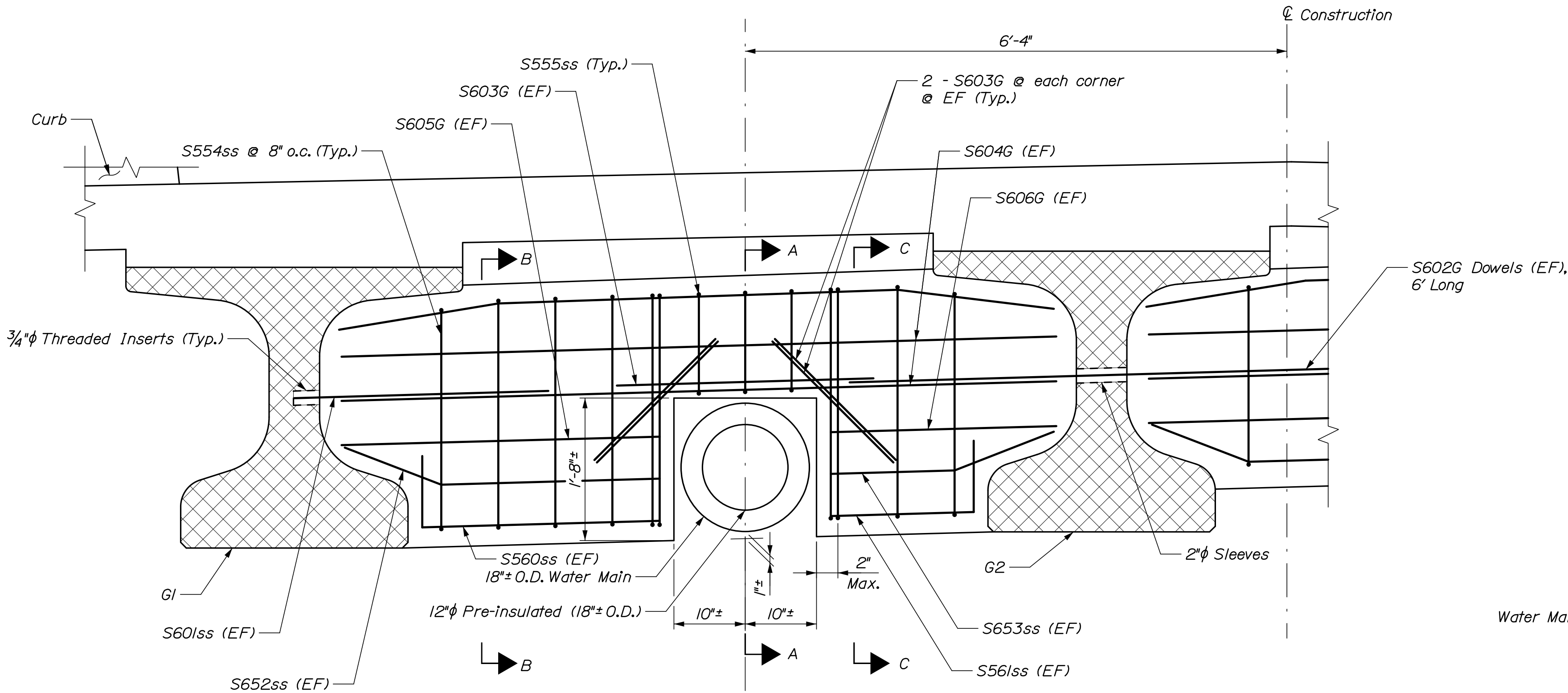
SHEET NUMBER
38
OF 53

Date:4/10/2018

Username:

Division:

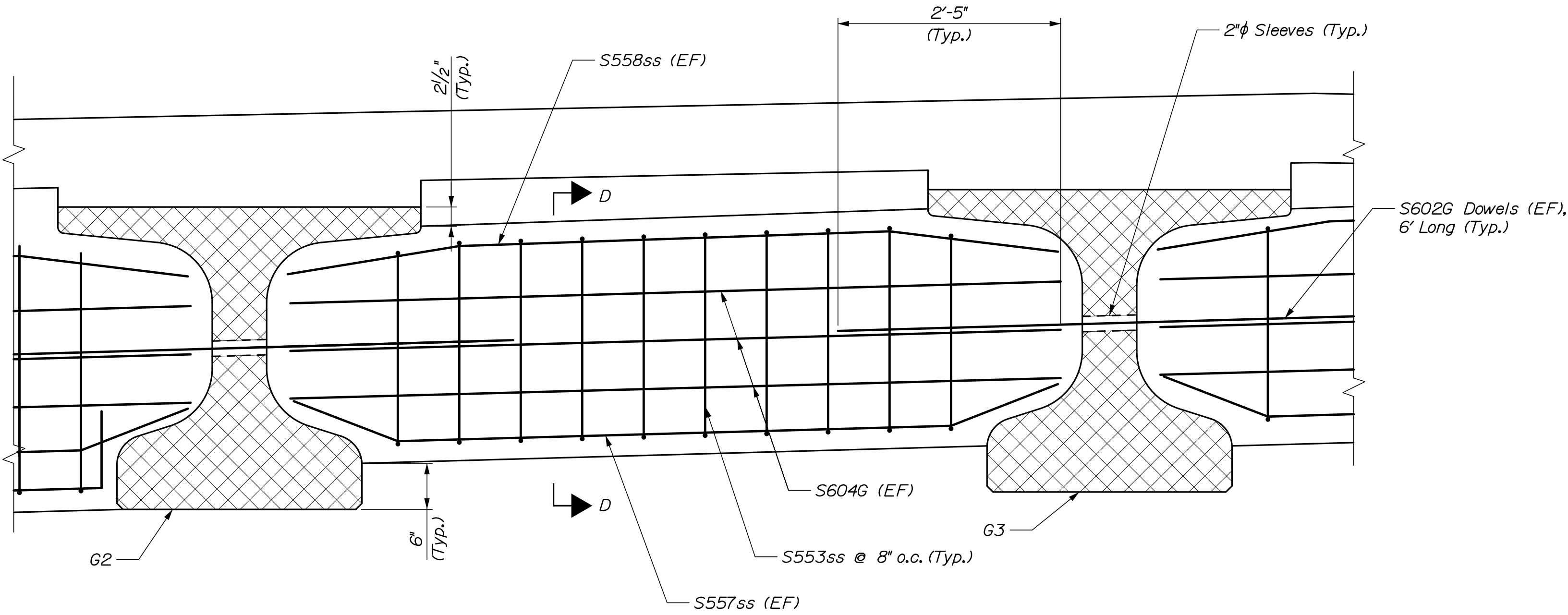
Filename: 039_Diaphragm Details.dgn



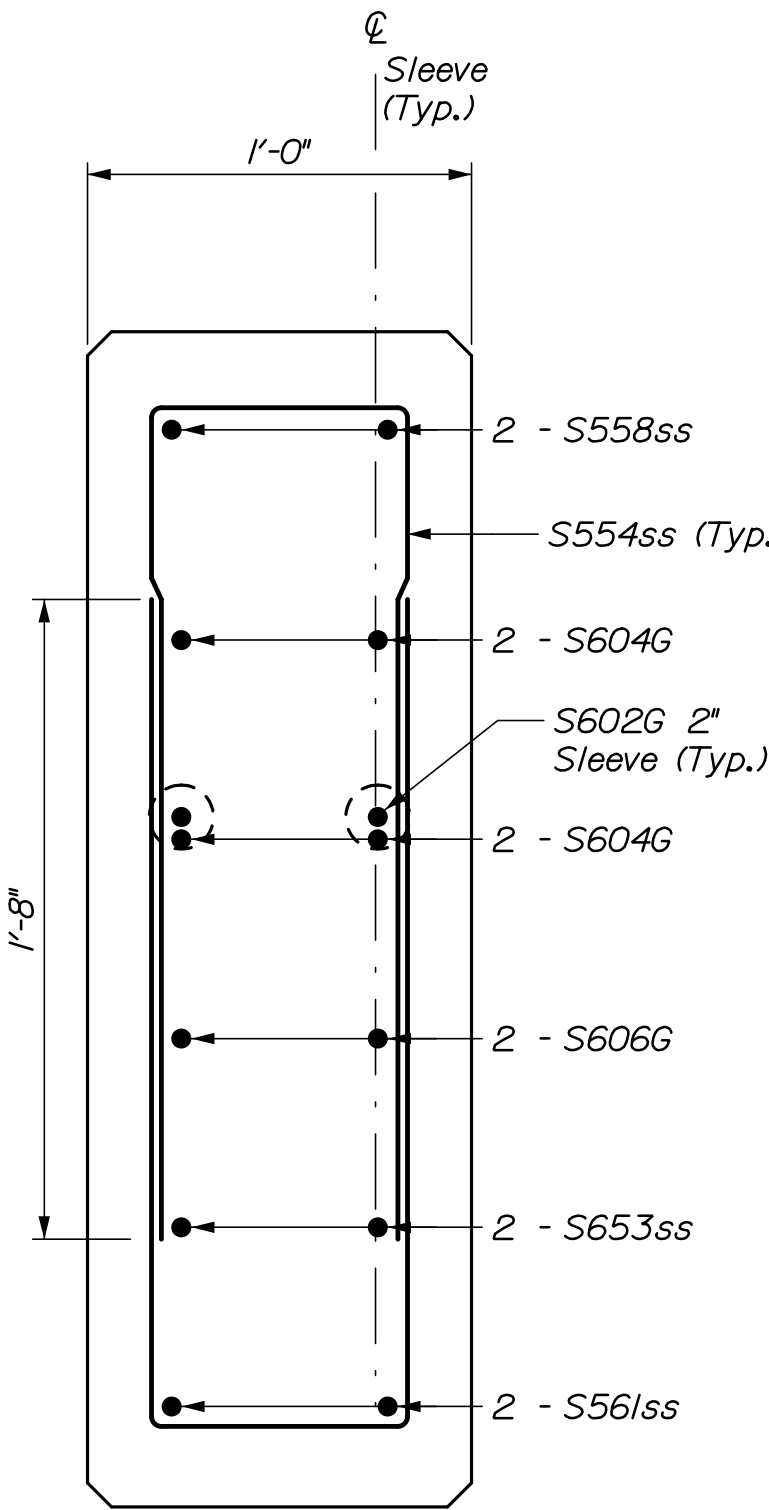
INTERMEDIATE DIAPHRAGM BAY 1

SECTION A-A

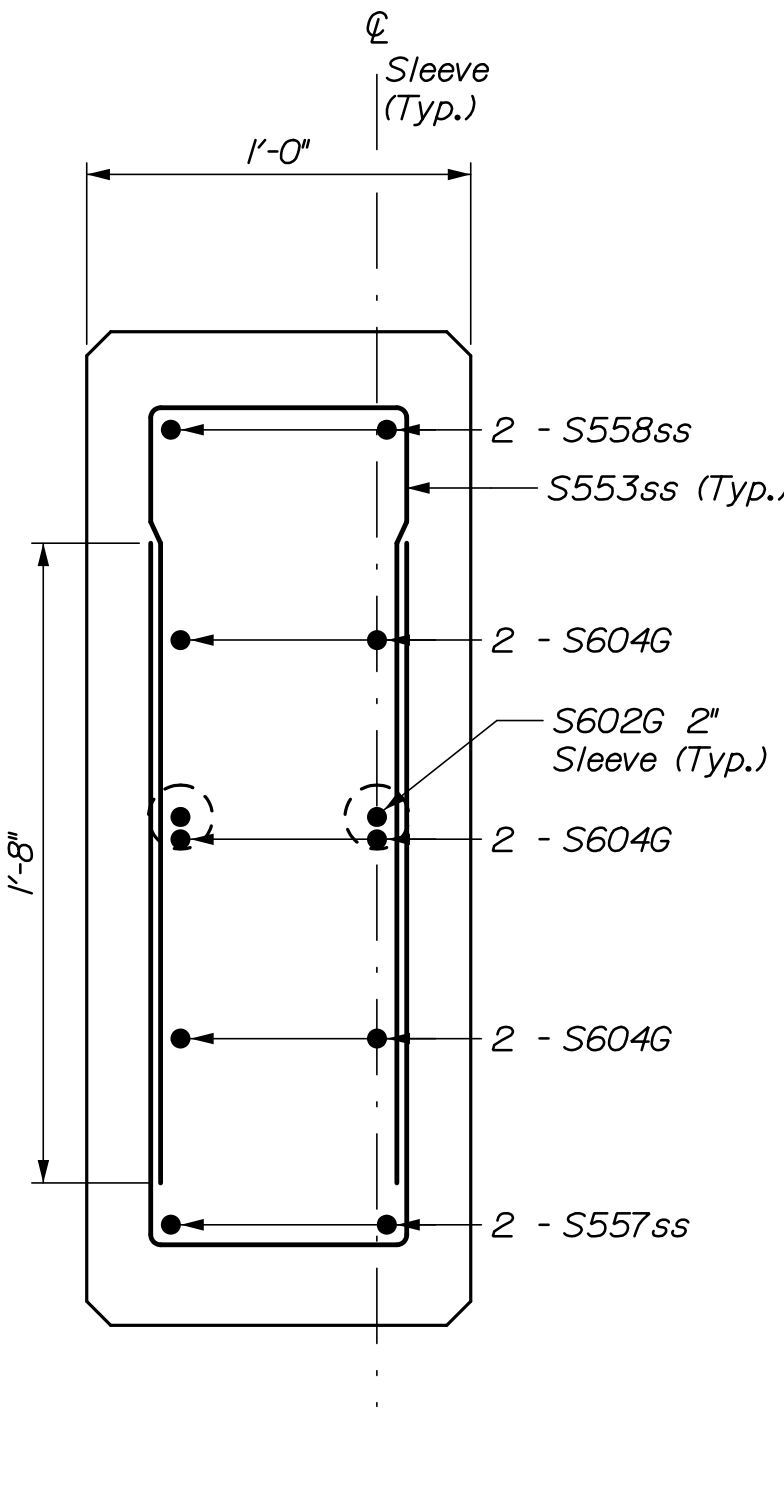
SECTION B-B



INTERMEDIATE DIAPHRAGM BAY 2

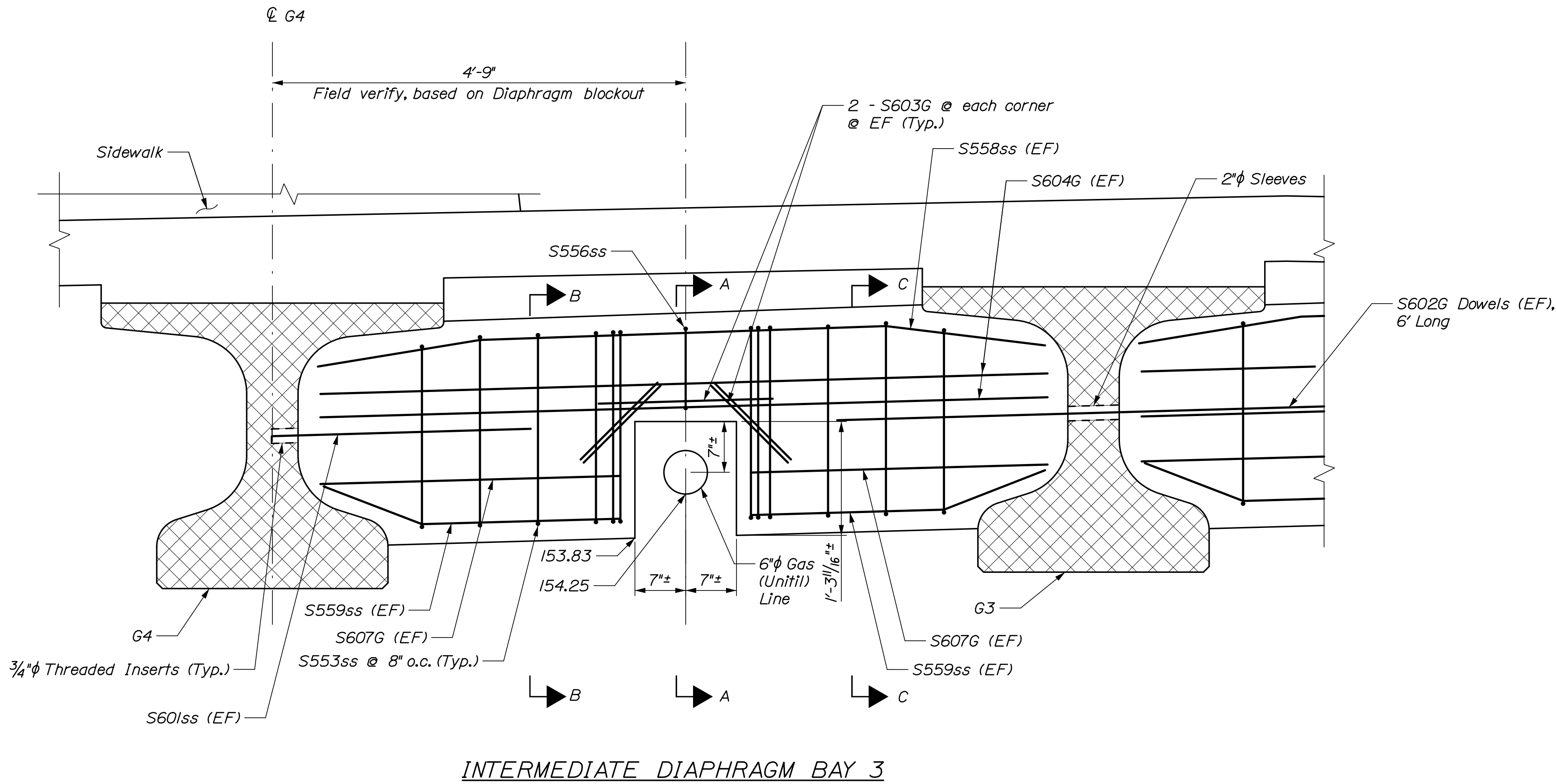


SECTION C-C

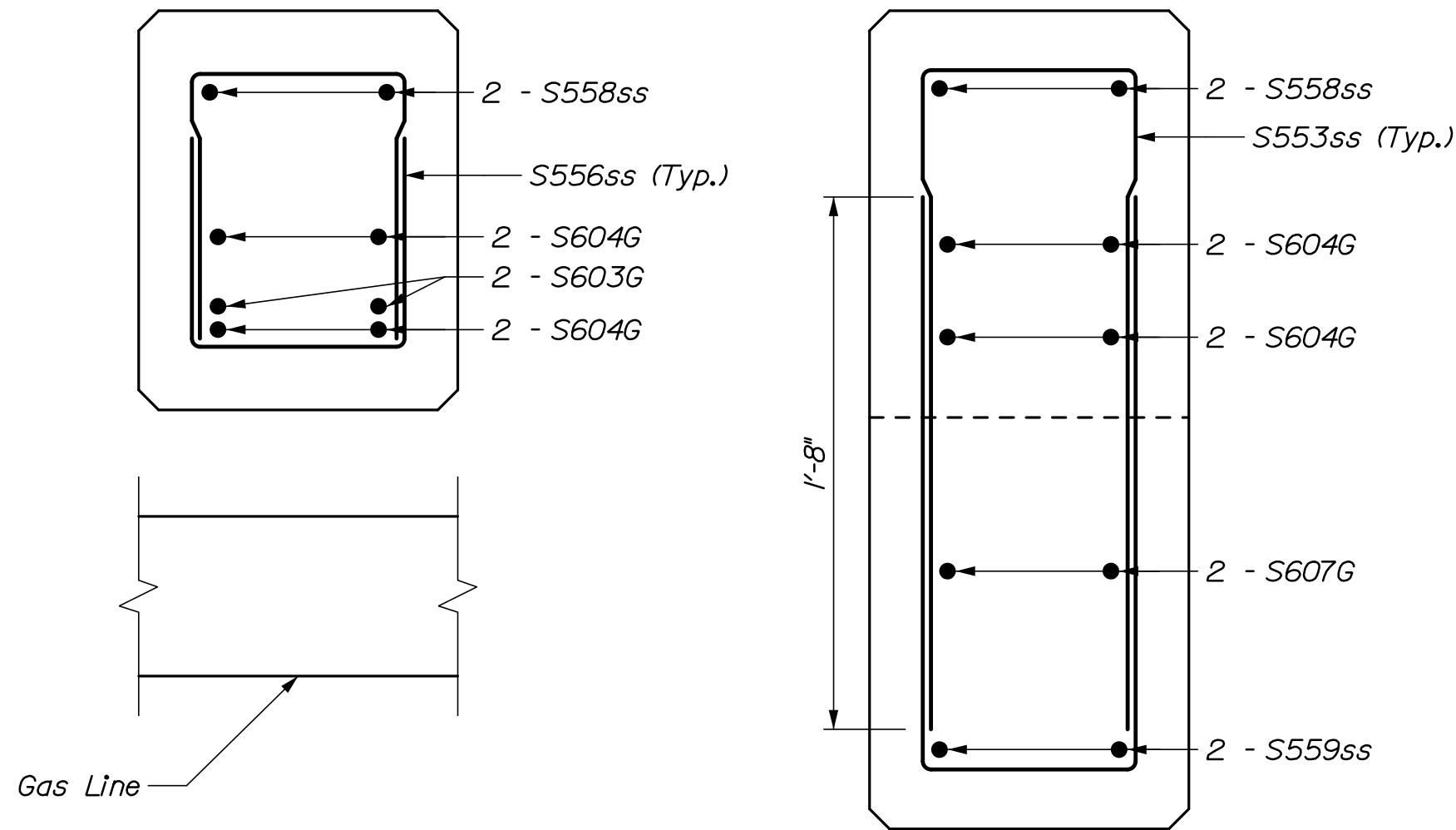


SECTION D-D

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		WIN 18970.00		BRIDGE NO. 5007		BRIDGE PLANS	
LISBON CENTER BRIDGE		SABATTUS RIVER		ANDROSCOGGIN		LISBON		DIAPHRAGM DETAILS I	
PROJ. MANAGER		J. Kittredge		BY		DATE		SIGNATURE	
DESIGN-DETAILED		R. Nious		HNTB		12/17		P.E. NUMBER	
CHECKED-REVIEWED		HNTB		-		12/17		DATE	
DESIGN-DETAILED		-		-		-		-	
REVISIONS 1		-		-		-		-	
REVISIONS 2		-		-		-		-	
REVISIONS 3		-		-		-		-	
REVISIONS 4		-		-		-		-	
FIELD CHANGES		-		-		-		-	
SHEET NUMBER		39		OF 53					

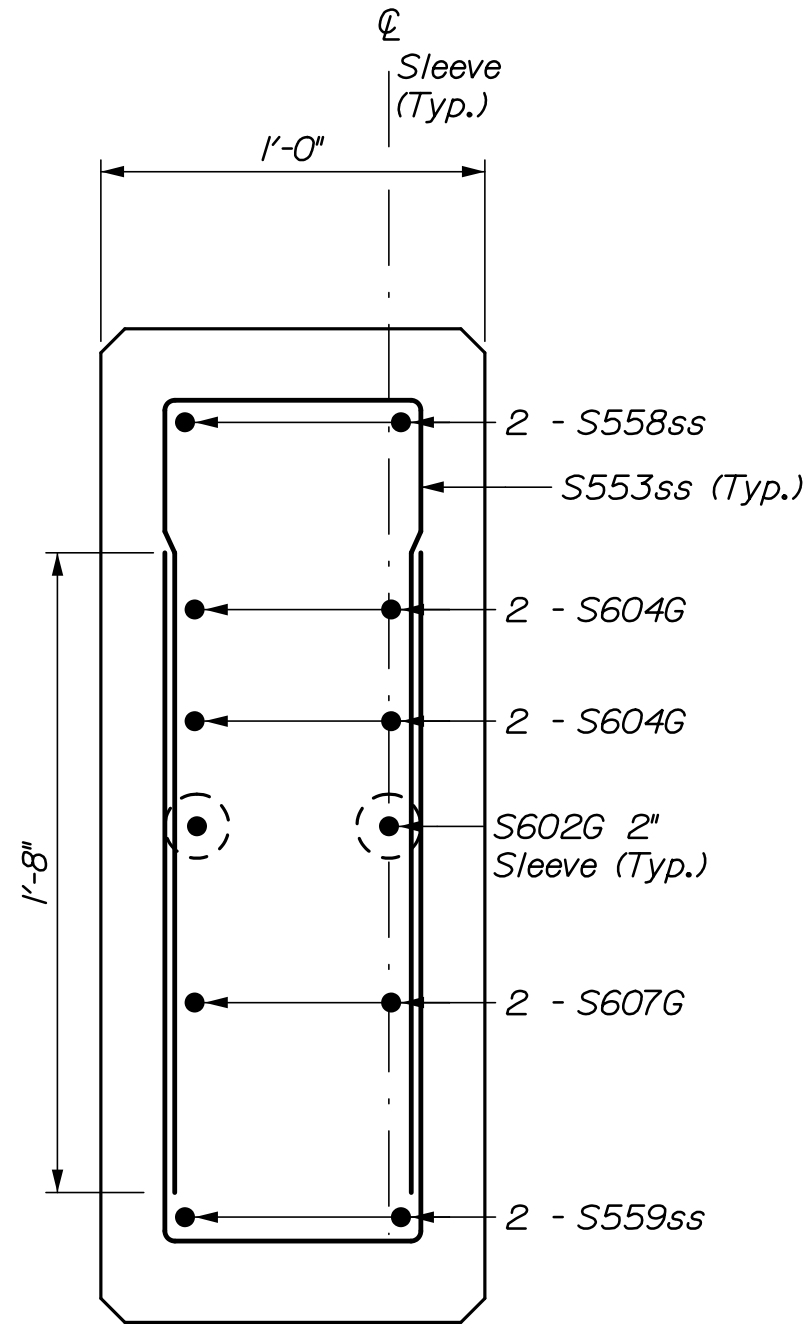


INTERMEDIATE DIAPHRAGM BAY 3



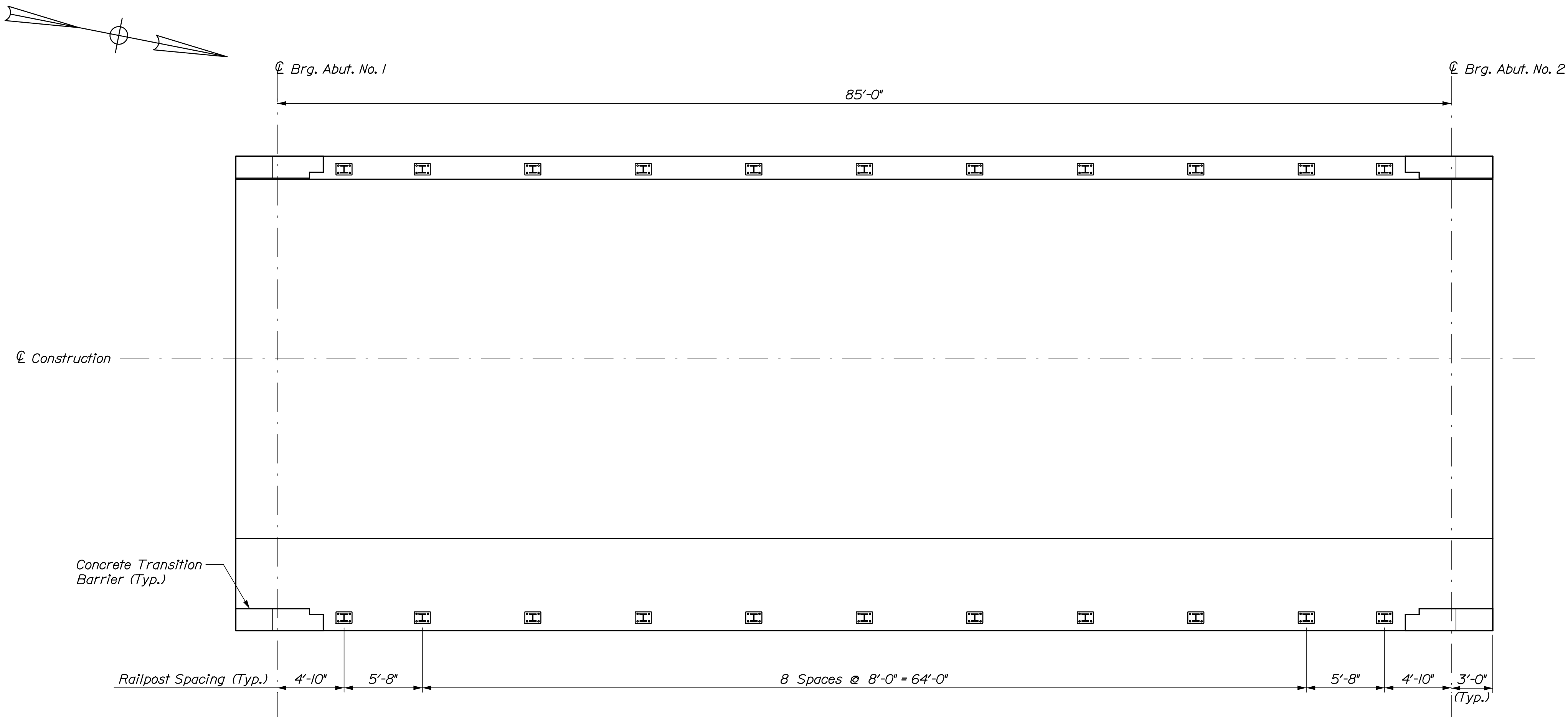
SECTION A-A

SECTION B-B

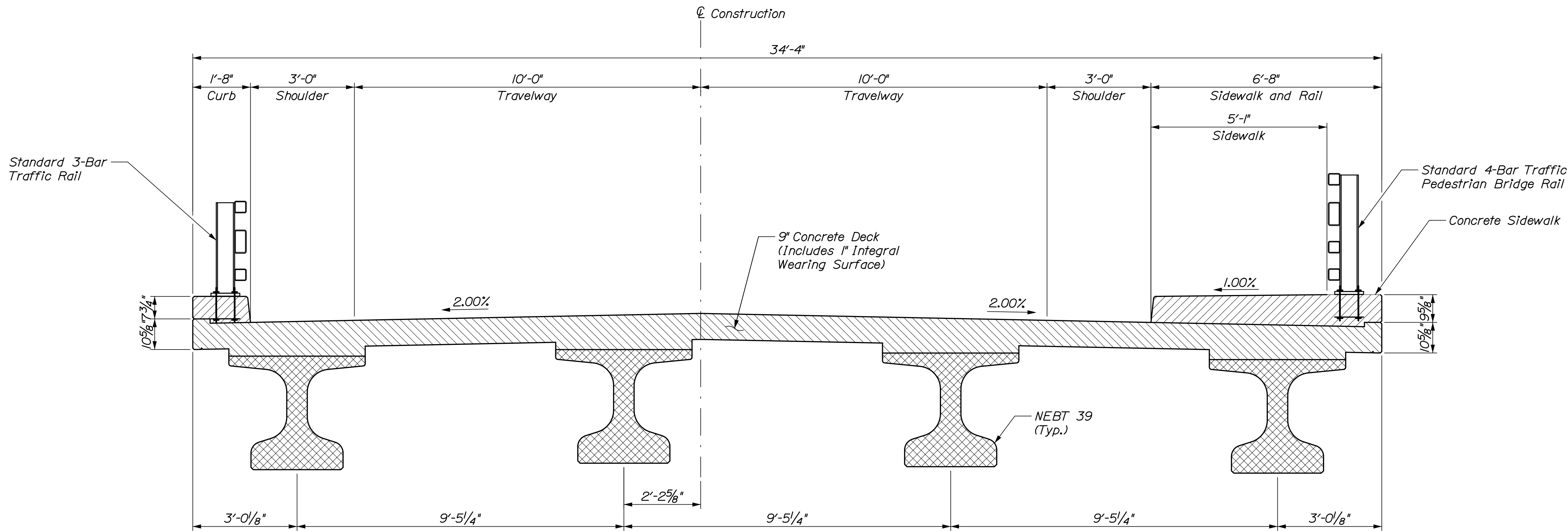


SECTION C-C

LISBON CENTER BRIDGE SABATTUS RIVER LISBON		PROJ. MANAGER		J. Kiltredge	BY	DATE	STATE OF MAINE DEPARTMENT OF TRANSPORTATION		
		DESIGN-DETAILED		R. Nodds	HNTB	12/17			
DIAPHRAGM DETAILS II		CHECKED-REVIEWED		HNTB	-	12/17	WIN 18970.00		
		DESIGN2-DETAILED2		-	-	-		BRIDGE NO. 5007	
		DESIGN3-DETAILED3		-	-	-			
		REVIEWS 1		-	-	-			P.E. NUMBER
		REVIEWS 2		-	-	-			
REVIEWS 3		-	-	-					
DIAPHRAGM DETAILS II		REVIEWS 4		-	-	-	DATE		
		FIELD CHANGES		-	-	-			
				-	-	-			



SUPERSTRUCTURE PLAN



TYPICAL SECTION

SUPERSTRUCTURE NOTES

1. Reinforcing shall have a minimum concrete cover of 2 inches unless otherwise noted.
2. Form a one inch V-groove on the fascias at the horizontal joint between the curb and slab.
3. The superstructure slab concrete shall be placed in one continuous operation and shall be kept plastic until the entire placement has been made.
4. The Contractor shall install Transition Barrier vertical closed stirrups, as shown in Standard Details Section 526, prior to the placement of the sidewalk concrete.
5. The theoretical blocking used for design of the structure is 2 inches at the centerline of bearings of the abutments. Refer to Standard Detail 502(03) for blocking details.
6. Fill the gap between the wingwall parapet and slab fascia with Preformed Expansion Joint Filler, per Standard Specification 705.01. The material used for the preformed joint filler shall be approved by the Resident. Payment of the preformed joint filler shall be incidental to Item 502.261.

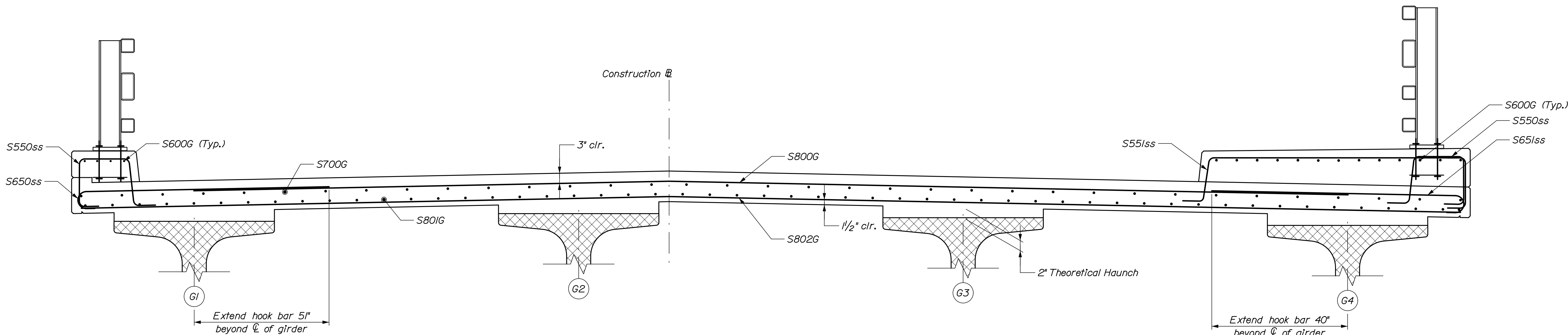
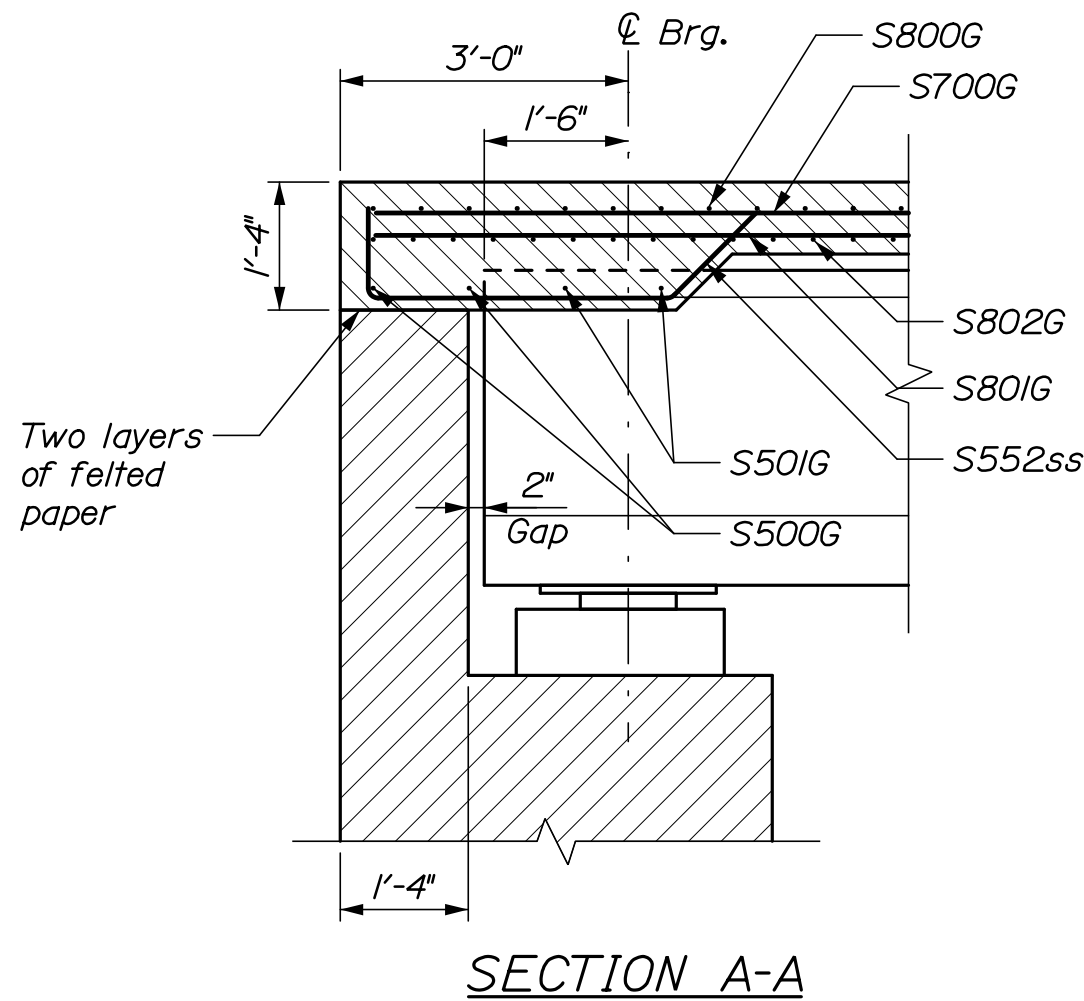
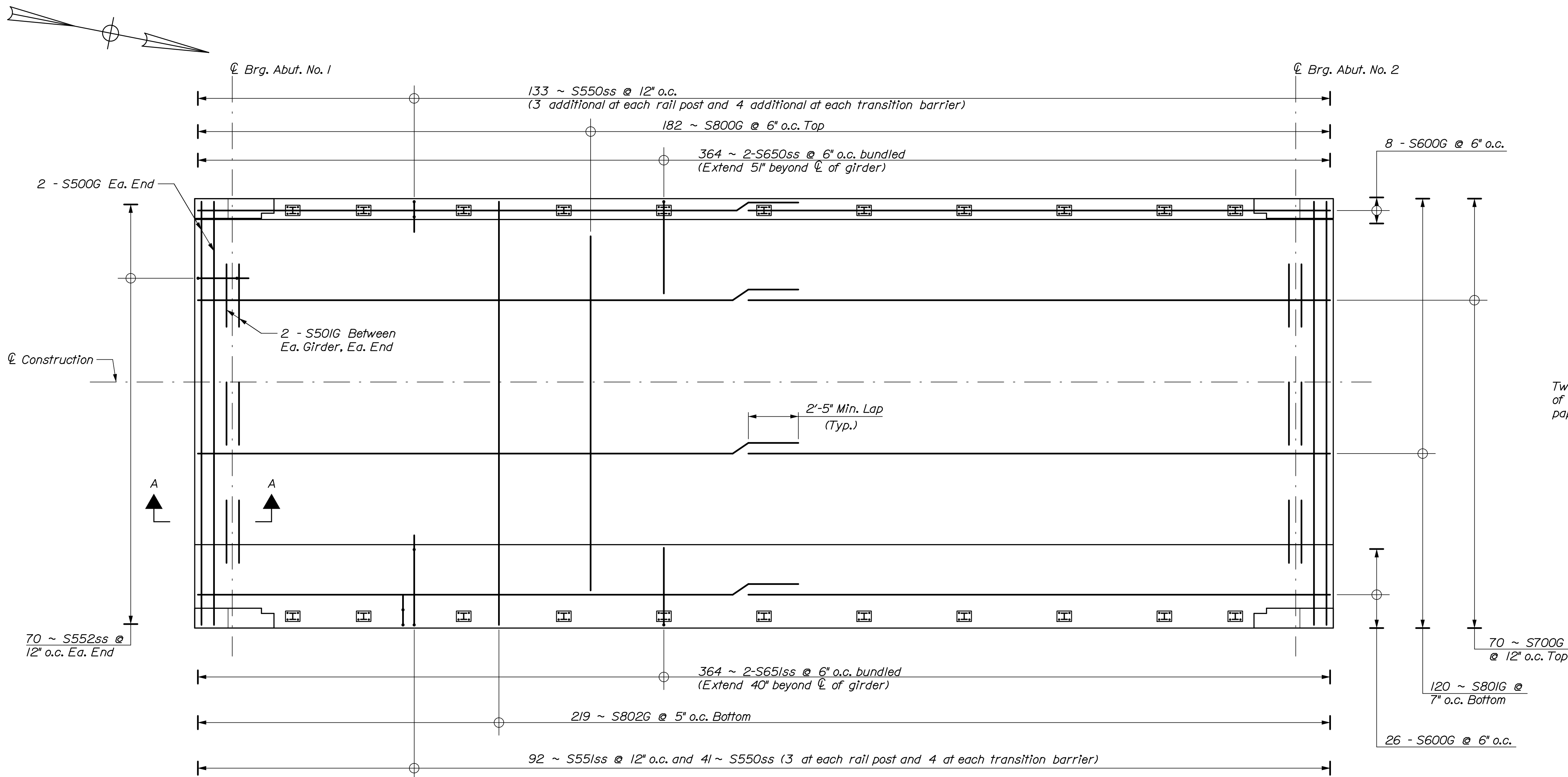
LISBON CENTER BRIDGE SABATTUS RIVER ANDROSCOGGIN LISBON										PROJ. MANAGER J. Kittredge		BY HNTB	DATE 12/17	STATE OF MAINE DEPARTMENT OF TRANSPORTATION	
										CHECKED-REVIEWED HNTB		12/17			
										DESIGN2-DETAILED2		-	SIGNATURE		
										DESIGN3-DETAILED3		-			
										REVISIONS 1		-	P.E. NUMBER		
										REVISIONS 2		-			
										REVISIONS 3		-			
										REVISIONS 4		-	DATE		
										FIELD CHANGES		-		BRIDGE NO. 5007 BRIDGE PLANS	

Date:4/10/2018

Username:

Division:

Filename: 042_Superstructure Reinforcing.dgn



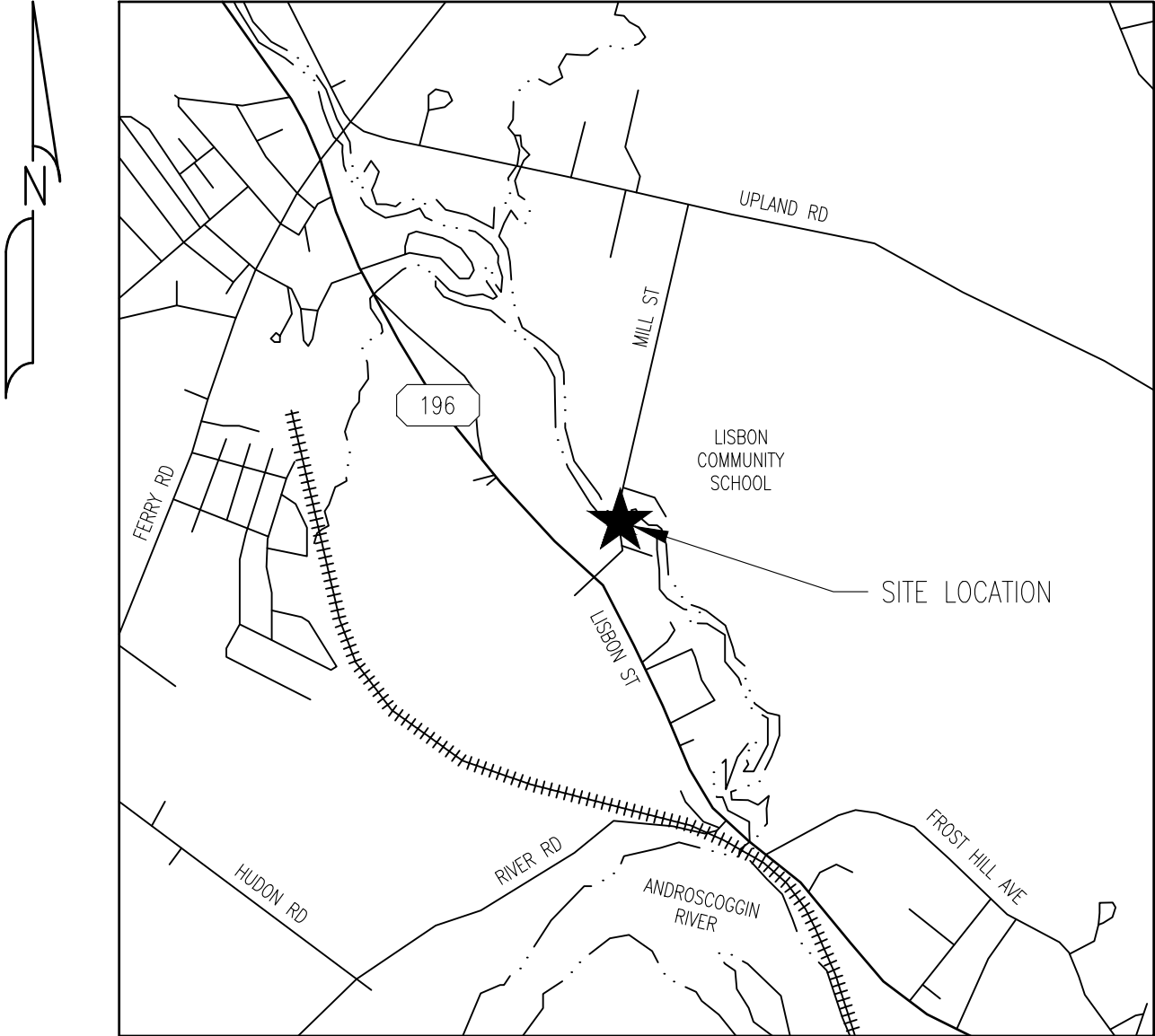
REINFORCING SECTION

PROJ. MANAGER	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
J. Kittredge	HNIB	12/17			
DESIGN-DETAILED	HNIB	12/17			
CHECKED-REVIEWED	HNIB	12/17			
DESIGN-DETAILED					
DESIGN-DETAILED					
REVISIONS 1					
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
FIELD CHANGES					



LISBON BRIDGE CROSSING
OVER SABATTUS RIVER
MILL STREET
LISBON, MAINE

INDEX OF SHEETS		
SHEET	NAME	TITLE
1	T001	COVER SHEET
2	A001	SITE PLAN
3	A002	PIPING ELEVATION
4	A003	PIPING SUPPORT DETAILS
5	P001	BILL OF MATERIALS
6	C001	STANDARD DETAILS

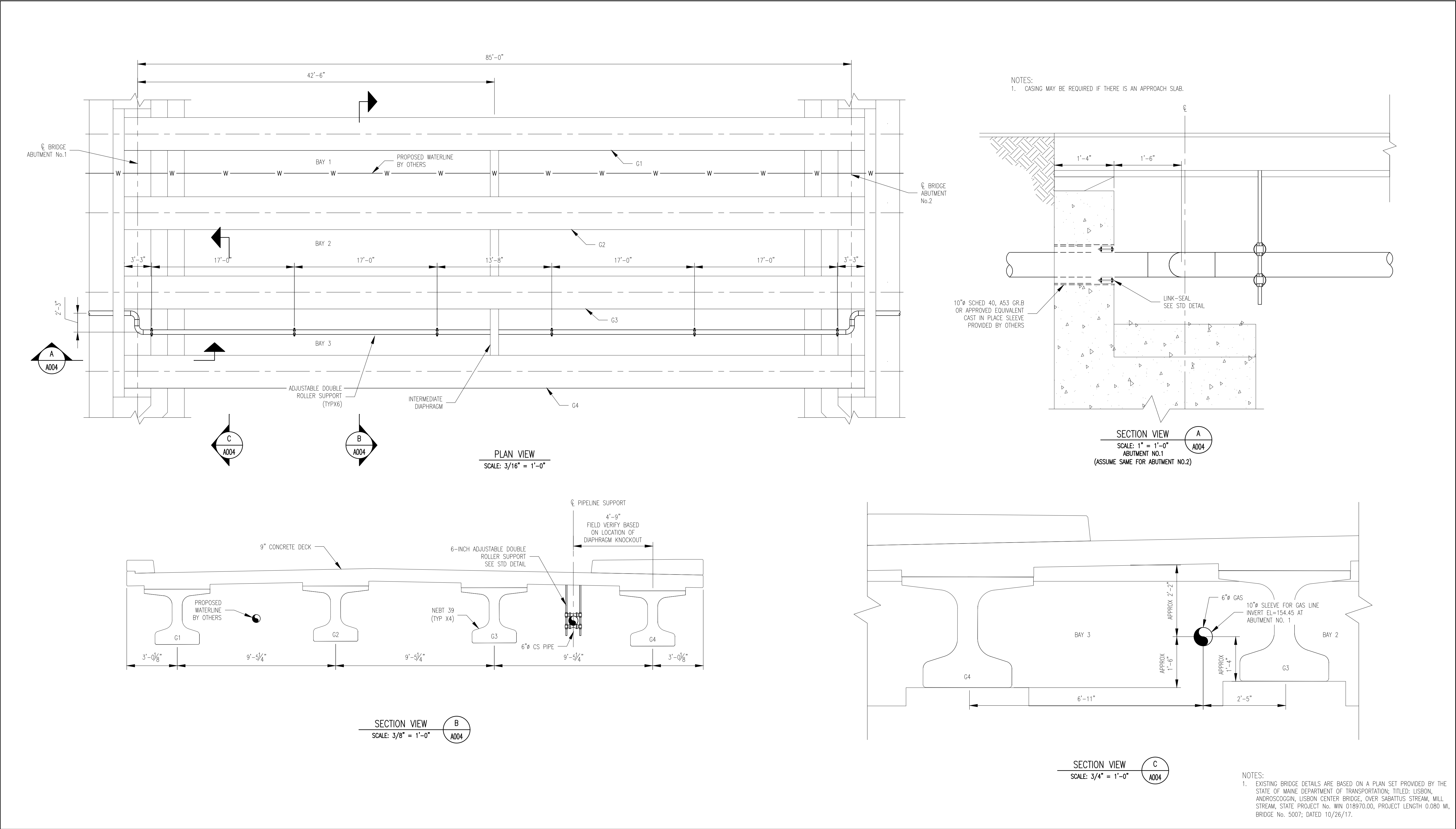


LOCUS
SCALE: NTS

ISSUED FOR BID				
ISSUE STATUS	DATE	REVIEWED	CHECKED	APPROVED
25% SUBMISSION	06/12/17			
50% SUBMISSION				
75% SUBMISSION				
90% SUBMISSION	12/01/17			
ISSUED FOR BID	12/08/17			
ISSUED FOR CONSTRUCTION				
AS CONSTRUCTED				

FILE NAME: 5275_A000.DWG	SIZE	NAME	REV
PLOT DATE: 12/08/2017 4:08 PM	22X34	T001	
SHEET 1 OF 6			

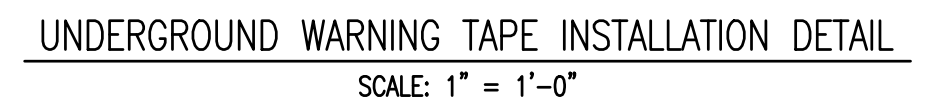
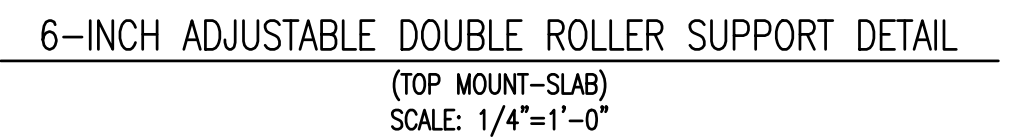
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BILL OF MATERIAL										
ITEM	QTY	UOM	SIZE (IN)	DESCRIPTION	RATING	THICKNESS (IN)	STANDARD	MATERIAL SPEC	MANUFACTURER	NOTES
1	400	LF	6	PIPE	SCHD 40	0.280	—	ASTM A-333, GR 6	—	PRITEC 1040 COATED, SEAMLESS, LOW TEMP
2	80	LF	2	PIPE	SCHD 40	0.154	—	ASTM A-333, GR 6	—	PRITEC 1040 COATED, SEAMLESS, LOW TEMP
3	2	EA	6 X 2	REDUCER	—	0.280 X 0.154	ASME B16.9	ASTM A-420, WPL6	—	—
4	2	SETS	LS-475-S-316-10	LINK SEAL	—	—	—	—	PSI, Inc	COMPLETE ASSEMBLY (QTY 10 LINKS PER SEAL)
5	12	EA	FRP TYPE 180	SADDLES, 9" LONG X 1/8" THICK	—	—	—	—	GLAS MESH CO. INC.	—
6	2	EA	6	VALVE, BALL, FULL PORT, WE X WE	—	0.280	API-6D	ASTM A-350-LF2, CL1	DELTA	WITH VALVE BOX
7	4	EA	6	ELB, 90 DEG, LR, BW	—	0.280	ASME B16.9	ASTM A-420, WPL-6	—	—
8	12	EA	6	SINGLE PIPE ROLL	—	—	—	—	LB&A, Inc	MODEL: 1B, INCLUDES (2) ADJUSTABLE SOCKETS AND (1) ROLL AXLE
9	12	EA	6	NON-CONDUCTIVE ROLLER	—	—	—	—	LB&A, Inc	MODEL: 6H, NON-CONDUCTIVE ROLLER AND 304SS SLEEVE
10	12	EA	3/4 X 40	CONTINUOUS THREADED ROD	—	—	—	ASTM A-193 GR B7	LB&A, Inc	MODEL: 12B, HOT DIPPED GALVANIZED
11	60	EA	3/4	HEX NUT	—	—	—	ASTM A-194 GR 2H	LB&A, Inc	HOT DIPPED GALVANIZED
12	12	EA	3/4	HARDENED STEEL WASHER	—	—	—	ASTM F436	LB&A, Inc	HOT DIPPED GALVANIZED
13	2	EA	2	CAP, BW, (FOR PRESSURE TEST USE)	—	0.154	ASME B16.9	ASTM A-420, WPL6	—	—
14	2	EA	FRP TYPE 180	SADDLES, 24" LONG X 1/8" THICK	—	—	—	—	GLAS MESH CO. INC.	—
15	12	EA	HDI-3/4	DROP-IN, FLUSH MOUNTED EXPANSION ANCHOR, INTERNALLY THREADED	—	—	—	ASTM B633, SC 1, TYPE III	HILTI, INC	—

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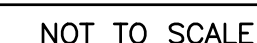
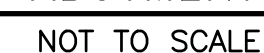
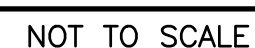
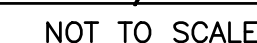


REV	BY	DATE	DESCRIPTION

FILE NAME: 5275_P000.DWG		SIZE 22X34	NAME C001	REV F
PLOT DATE: 12/08/2017 4:08 PM				
SCALE: AS SHOWN		SHEET 6 OF 6		



Double Dimensions When in Soft Clay

SHEET

REVISIONS				PLAN FILED IN PLAN BOOK PAGE COUNTY RECORD						DAVID BERNHARDT COMMISSIONER JOYCE NOEL TAYLOR CHIEF ENGINEER DATE		MILL STREET			SHEET NUMBER
NO.	DATE	DESCRIPTION	BY	NO.	GRANTOR	INSTRUMENT	DATE	BOOK	PAGE			LISBON	TOWN WAY	53	
												ANDROSCOGGIN COUNTY			OF 53
												STATE PROJECT NO. 18970.00			
												OCTOBER 2017	RIGHT-OF-WAY MAP	D.O.T. FILE NO. 1-333	
										SCALE 1" = 25'	SHEET 1 OF 1				