

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



SPECIFICATIONS

Design: Load and Resistance Factor Design per AASHTO LRFD Bridge Design Specifications, Fifth Edition 2010.

DESIGN LOADING

Live Load HL - 93 Modified

TRAFFIC DATA

Current (2010) AADT 5850
Future (2030) AADT 7610
DHV - % of AADT 9
Design Hour Volume 685
Heavy Trucks (% of AADT) 17
Heavy Trucks (% of DHV) 12
Directional Distribution (% of DHV) 57
18 kip Equivalent P 2.0 1278
18 kip Equivalent P 2.5 1217
Design Speed (mph) 35

MATERIALS

Concrete:
Barriers, Curbs, Sidewalks & Transition Barriers Class "LP"
Slope Protection Class "Fill"
All Other Class "A"

Reinforcing Steel ASTM A 615/A 615M, Grade 60

BASIC DESIGN STRESSES

Concrete
Class "LP" f 'c = 5,075 psi
Class "Fill" f 'c = 2,900 psi
Class "A" f 'c = 4,350 psi

Reinforcing Steel f y = 60,000 psi

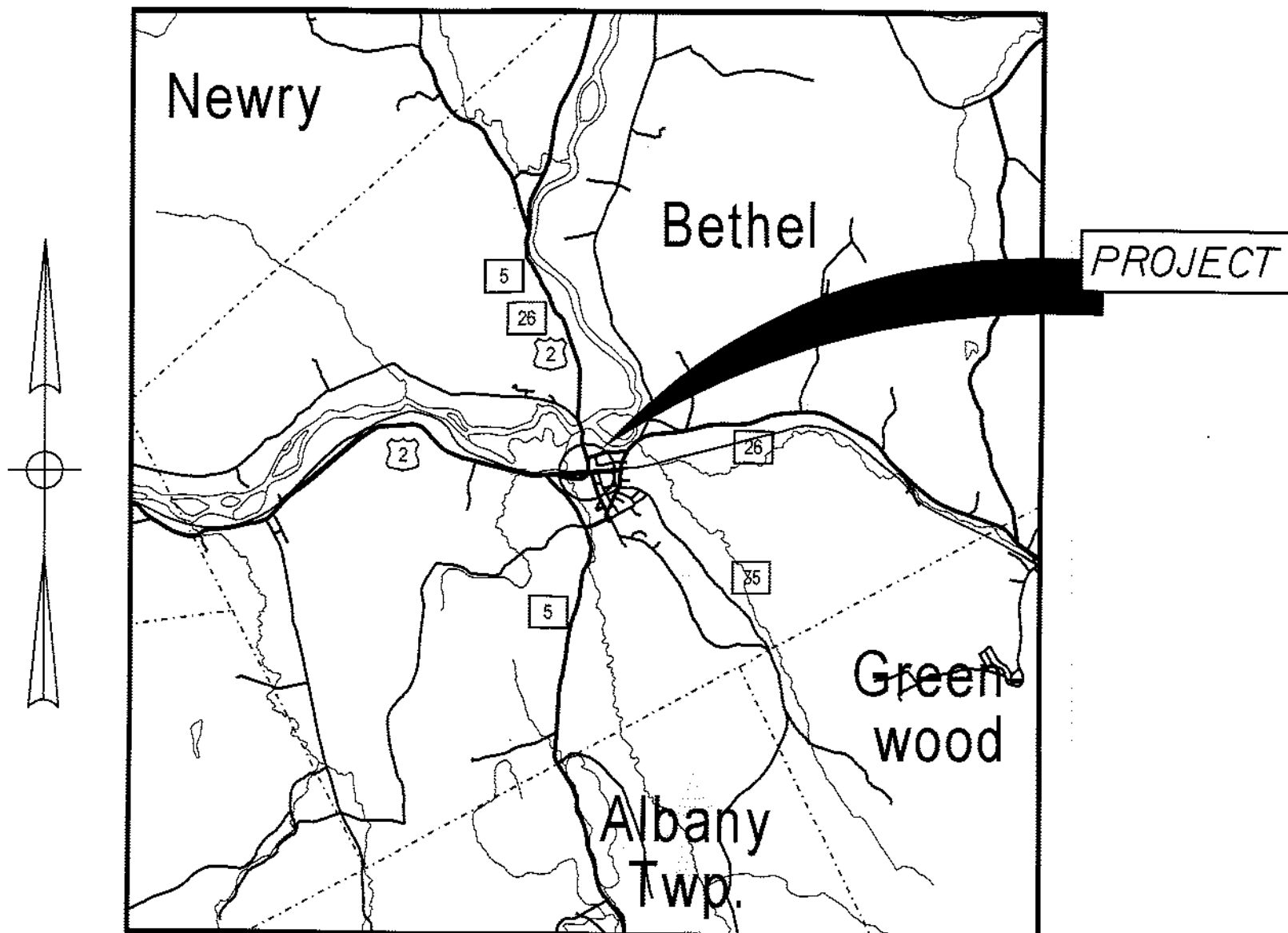
UTILITIES

Central Maine Power Company
Oxford Networks
Oxford West Telephone Co.
Time Warner Cable
St. Lawrence & Atlantic Railroad Co.

MAINTENANCE OF TRAFFIC

Close Bridge (Rt. 2 & 26) for a time specified in the Special Provisions.
Detour traffic using adjacent route. Detour Length is 1.3 miles

BETHEL
OXFORD COUNTY
C.N.R. Xing BRIDGE
OVER
RAILROAD ST. \ SL&A RR.
U.S. ROUTE 2
PROJECT NO. BH-1685(100)X
PROJECT LENGTH 0.046 mi.
DECK REPLACEMENT
BRIDGE NO. 3791



LOCATION MAP



LIST OF DRAWINGS

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SCOPE OF WORK

Deck replacement on C. N. R. Xing Bridge (#3791) over St. Lawrence and Atlantic Railroad and Railroad Street. Rebuild top of Abutment backwalls. This bridge is approximately 240' in length. Replacement of damaged guardrail system.

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
	COMMISSIONER: <i>[Signature]</i>	1/12/11
CHIEF ENGINEER: <i>[Signature]</i>		1/14/11
SIGNATURE: <i>Michael Wright</i>		
P.E. NUMBER: 8089		
DATE: 1/11/2011		
PROJECT INFORMATION		
PROGRAM	BRIDGE PROGRAM	
PROJECT MANAGER	STEVE BOGGE	
DESIGNER	BRIAN REEVES	
CONSULTANT		
PROJECT RESIDENT		
CONTRACTOR		
PROJECT COMPLETION DATE		
BH-1685(100)X PIN 16851.00		
BETHEL C.N.R. Xing BRIDGE		
TITLE SHEET		
SHEET NUMBER		
1		
OF 17		

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
202.10	REM EXISTING SUPERSTRUCTURE (PROP.OF CONTRACT.) (350 CY)	1	LS
202.12	REMOVING EXISTING STRUCTURAL CONCRETE	5	CY
202.13	REMOVING EXISTING RAILINGS (RETAINED BY DEPARTMENT)	465	LF
202.202	REMOVING PAVEMENT SURFACE	500	SY
203.20	COMMON EXCAVATION	10	CY
203.24	COMMON BORROW	10	CY
304.10	AGGREGATE SUBBASE COURSE - GRAVEL	10	CY
403.207	HOT MIX ASPHALT 19.0 MM HMA	55	T
403.209	HOT MIX ASPHALT 9.5 MM HMA (S/W, DRIVES, INCID.)	10	T
403.210	HOT MIX ASPHALT 9.5 MM HMA	220	T
403.213	HOT MIX ASPHALT 12.5 MM BASE	130	T
409.15	BITUMINOUS TACK COAT - APPLIED	100	G
502.219	STRUCT. CONC., ABUTMENTS AND RETAINING WALLS (5 CY)	1	LS
502.26	STRUCT. CONC. RDWAY AND S/W SLABS ON STL BRIDGES (250 CY)	1	LS
502.49	STRUCT. CONC. CURBS AND SIDEWALK (50 CY)	1	LS
503.12	REINFORCING STEEL, FAB AND DEL	2200	LB
503.13	REINFORCING STEEL, PLACING	2200	LB
505.08	SHEAR CONNECTORS (5676 EA)	1	LS
507.0846	BARRIER-MTD STL BRIDGE RAIL: I-BAR (240 LF)	1	LS
507.0848	BARRIER MTD STL BRIDGE RAIL 2 BAR (246 LF)	1	LS
508.14	HIGH PERFORMANCE WATERPROOFING MEMBRANE (850 SY)	1	LS
513.40	SLOPE PROTECTION - REPAIR	10	SY
514.06	CURING BOX FOR CONCRETE CYLINDERS	1	EA
515.21	PROTECTIVE COATING FOR CONCRETE SURFACES (530 SY)	1	LS
518.50	REPAIR OF UPWARD FACING SURFACES <7.9 IN.	10	SF
518.60	REPAIR OF VERTICAL SURFACES < 7.9 IN.	10	SF
520.22	EXPANSION DEVICE - COMPRESSION SEAL - PIER NO. 1	1	EA
520.22	EXPANSION DEVICE - COMPRESSION SEAL - PIER NO. 2	1	EA
520.22	EXPANSION DEVICE - COMPRESSION SEAL - PIER NO. 3	1	EA
524.40	PROTECTIVE SHIELD	1	LS
526.301	TEMPORARY CONCRETE BARRIER TYPE I (60 LF)	1	LS
526.321	PERMANENT CONCRETE BARRIER TYPE III A (485 LF)	1	LS
606.1721	BRIDGE TRANSITION - TYPE I	4	EA
606.23	GUARDRAIL TYPE 3C - SINGLE RAIL	240	LF
606.231	GUARDRAIL TYPE 3C - 15 FOOT RADIUS AND LESS	25	LF
606.265	TERMINAL END - SINGLE RAIL - GALVANIZED STEEL	1	EA
606.353	REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	2	EA
606.369	GUARDRAIL (REMOVED & STACKED)	365	LF
609.11	VERTICAL CURB TYPE I	100	LF
609.13	VERTICAL BRIDGE CURB TYPE I	250	LF
609.38	RESET CURB TYPE I	250	LF
613.319	EROSION CONTROL BLANKET	12	SY
615.07	LOAM	10	CY
618.1401	SEEDING METHOD NUMBER 2 - PLAN QUANTITY	1	UN
619.1201	MULCH - PLAN QUANTITY	1	UN
619.1401	EROSION CONTROL MIX	15	CY
626.22	NON-METALLIC CONDUIT CONCRETE ENCASED	40	LF
627.733	4 INCH WHITE OR YELLOW PAINTED PAVE MRK LINE	1110	LF
627.75	WHITE OR YELLOW PAVEMENT & CURB MARKING	100	SF
627.77	REMOVING PAVEMENT MARKINGS	500	SF
627.811	TEMPORARY BI-DIRECTIONAL YELLOW DELINEATORS	20	EA
627.812	TEMP. BI-DIRECTIONAL WHITE DELINEATORS	40	EA
629.05	HAND LABOR, STRAIGHT TIME	40	HR
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	20	HR
631.172	TRUCK - LARGE (INCLUDING OPERATOR)	20	HR
634.16	HIGHWAY LIGHTING	1	LS
634.21	CONVENTIONAL LIGHT STANDARD	3	EA
638.01	EMBEDDED WORK IN STRUCTURE	1	LS
639.19	FIELD OFFICE TYPE B	1	EA
643.72	TEMPROARY TRAFFIC SIGNAL	1	LS
652.31	TYPE I BARRICADE	10	EA
652.312	TYPE III BARRICADE	9	EA
652.33	DRUM	40	EA
652.34	CONE	20	EA
652.35	CONSTRUCTION SIGNS	1000	SF
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES (120 CD)	1	LS
652.38	FLAGGER	100	HR
652.381	TRAFFIC OFFICER	250	HR
656.75	TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	1	LS
659.10	MOBILIZATION	1	LS

GENERAL CONSTRUCTION NOTES

1. During construction, the road will be closed to traffic for a time period specified in the Special Provisions.
2. All utility facilities shall be adjusted by the respective utilities unless otherwise noted.
3. Place loam 2 inches deep on all new or reconstructed sideslopes or as directed by the Resident.
4. Erosion Control Mix may be substituted in those areas normally receiving loam and seed as directed by the Resident. Placement shall be in accordance with Standard Specifications Section 619, Mulch. Payment will be made under Item No. 619.1401, Erosion Control Mix.
5. Place a 24-in. wide strip of Temporary Erosion Control Blanket on the sideslopes along the top of the riprap and behind the wingwalls.
6. Protective Coating for Concrete Surfaces shall be applied to the following areas:

All exposed surfaces of concrete sidewalks,
Fascias down to the drip notch,
Concrete barrier railing.
7. Approximately 5 cubic yards of bridge deck debris presently located at the bases of Pier No. 3 and Abutment No. 2 shall be removed and disposed of as directed by the Resident. Payment for removal of debris shall not be made directly but shall be considered incidental to related contract items.
8. Construction of "Splash Pads" under bridge drain downspouts shall be paid for under Item No. 513.40 -Slope Protection Repair.
9. Project information referred to below may be accessed at the following MaineDOT web address: <http://www.maine.gov/mdot/comprehensive-list-projects/project-information.php>.
10. The existing bridge plans may be accessed at the MaineDOT web address. The plans are reproductions of the original drawings as prepared for the construction of the bridge. It is very unlikely that the plans will show any construction field changes or any alterations which may have been made to the bridge during its life span
11. Quantities included for pay items measured and paid for by Lump Sum are estimated quantities and are provided by MaineDOT for informational purposes only. Lump Sum pay items will be paid for at the Contract Bid amount, with no addition or reduction in payment to the Contractor if the actual final quantities are different from the MaineDOT provided estimated quantities, except as follows:

a. If a Lump Sum pay item is eliminated, the requirements of Standard Specifications Section 109.2, Elimination of Items, will take precedence.

b. If other Contract Documents specifically allow a change in payment for a Lump Sum pay item, those requirements will be followed.

c. If a design change results in changes to estimated quantities for Lump Sum pay items, price adjustments will be made in accordance with Standard Specifications Section 109.7, Equitable Adjustments to Compensation.
12. The Contractor shall submit a Bridge Deck Demolition Plan to the Resident at least 10 business days prior to the start of demolition work. The plan shall outline the methods and equipment to be used to remove and dispose of all materials included in the existing bridge deck. No work related to the removal of the bridge deck shall be undertaken by the Contractor until MaineDOT has reviewed the Bridge Deck Demolition Plan for appropriateness and completeness. Payment for all work necessary for developing, submitting and finalizing the Demolition Plan will be considered incidental to the superstructure removal pay item.
13. Excavation below existing pavement required for abutment backwall work shall be paid for under Item No. 203.20 - Common Excavation.
14. Existing granite curb removed for approach reconstruction shall be inspected by the Resident for reusability. Any curb deemed reusable by the Resident shall be reset. New Type I curb shall be furnished to replace any unsable curb and to offset any salvaged curb used around the parapets as per abutment details.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
BH-1685(100)X
PIN 16851.00
BRIDGE NO. 3791
BRIDGE PLANS

C.N.R. Xing BRIDGE
RAILROAD ST.\ SL&A RR.
BETHEL
OXFORD COUNTY

ESTIMATED QUANTITIES

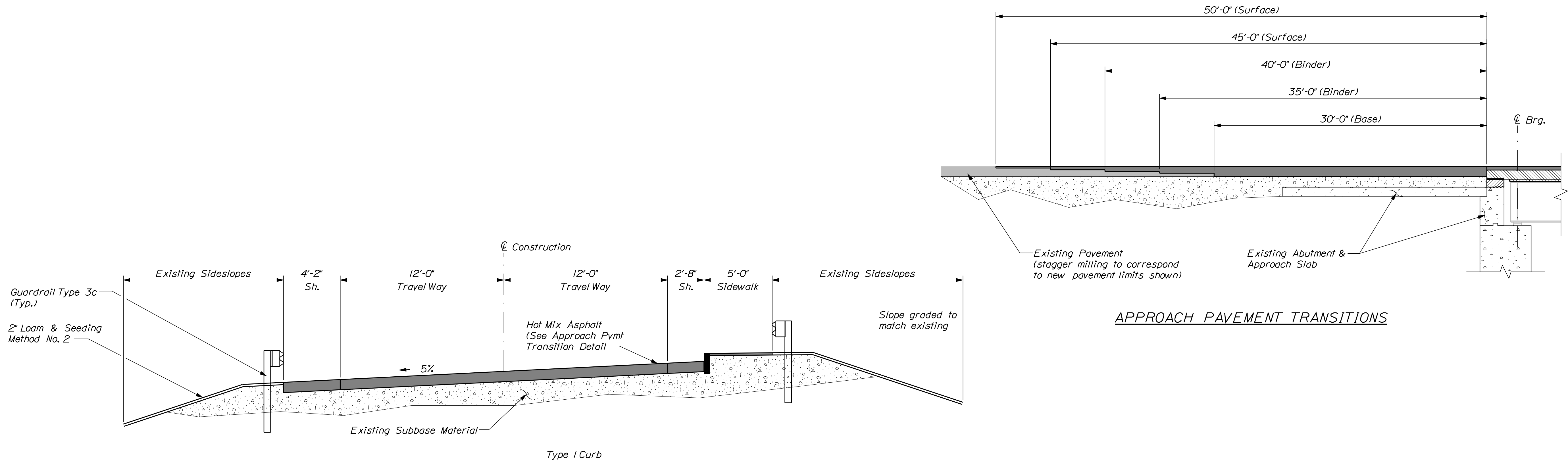
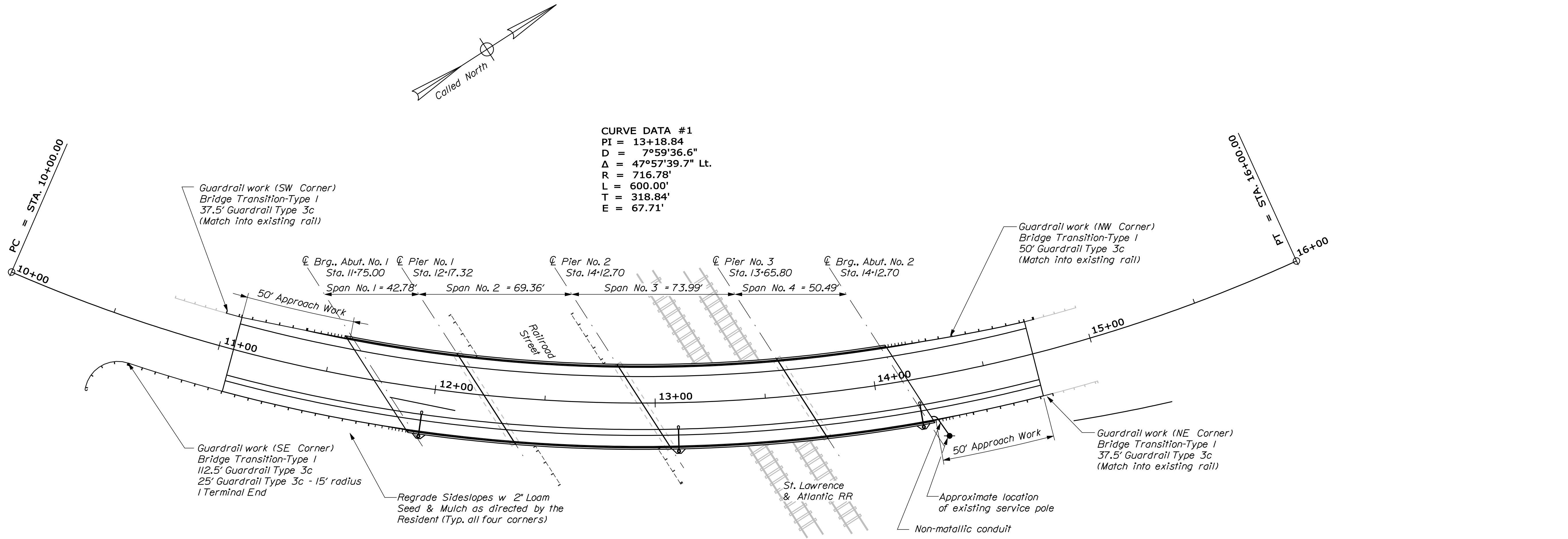
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OF 17

Date:1/11/2011

Username: brian.j.nichols

Division: BRIDGE

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TYPICAL APPROACH SECTION

STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
BH-1685(100)X	
BRIDGE NO. 3791	PIN 16851.00
	BRIDGE PLANS

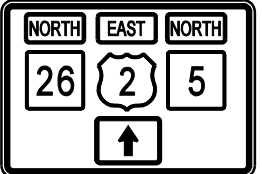
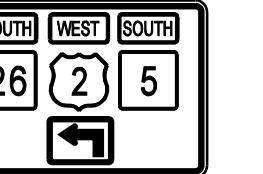
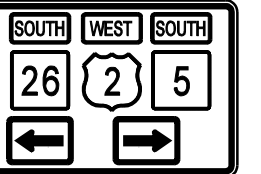
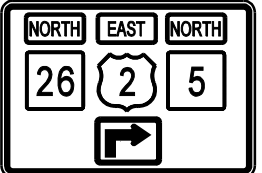
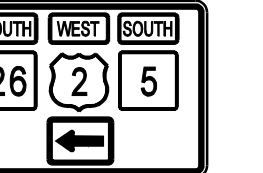
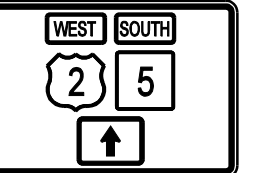
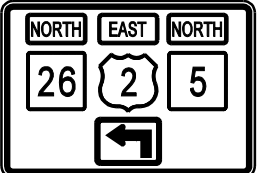
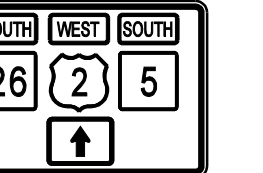
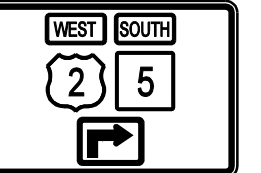
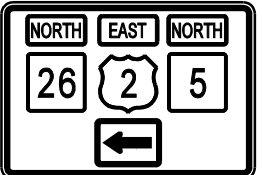
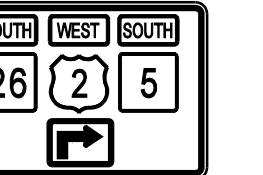
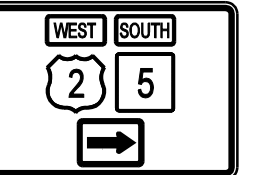
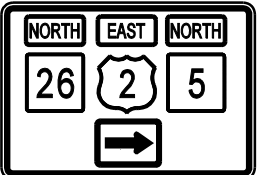
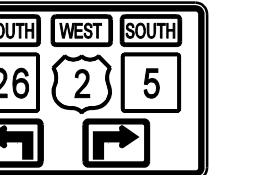
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DESIGN-DETAILED		SB		
CHECKED-REVIEWED		BLP		
DESIGN-DETAILED		EC		
DESIGN-DETAILED		RN		
REVISIONS 1				P.E. NUMBER
REVISIONS 2				DATE
REVISIONS 3				
REVISIONS 4				
FIELD CHANGES				

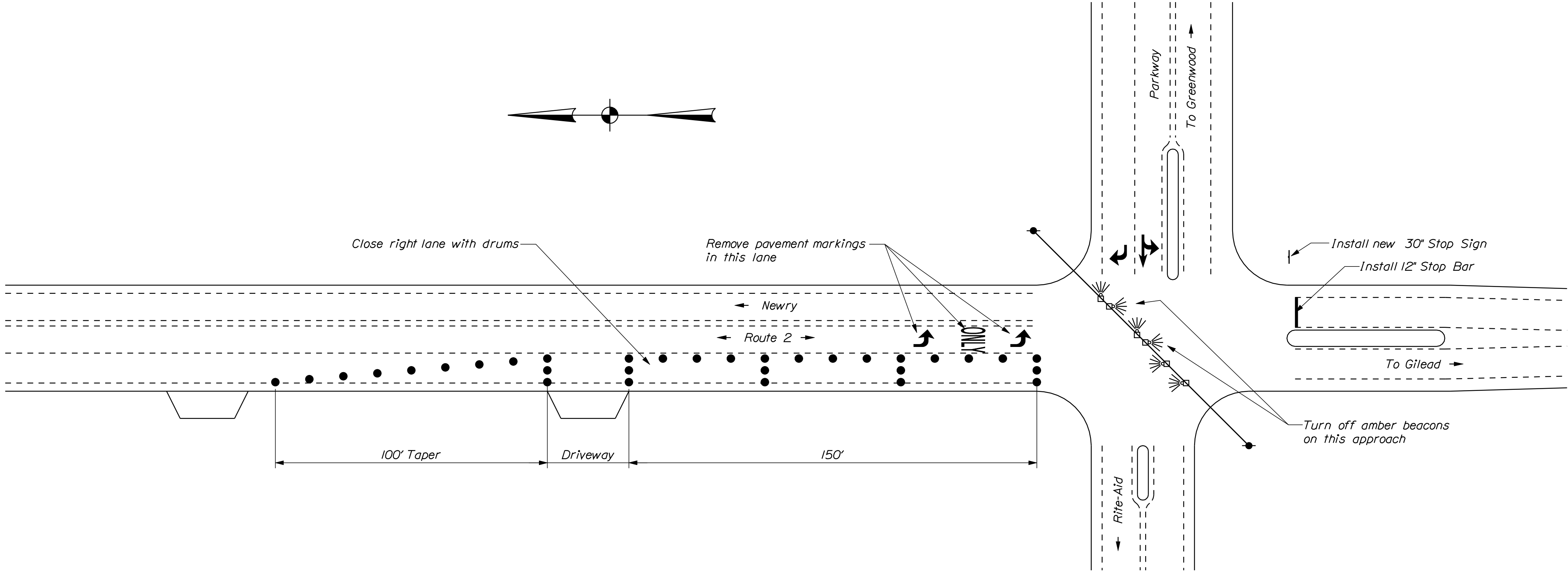
C.N.R. Xing BRIDGE	
RAILROAD ST. \ SL&A RR.	
BETHEL	
OXFORD COUNTY	
GENERAL PLAN	

SHEET NUMBER
3
OF 17

1. Contractor is responsible for providing and maintaining the Traffic Control signs
Spacing to be determined by the Resident in accordance with MUTCD
2. Install 30' Temporary Concrete Barrier at each end of the project (60' feet total)
3. One set ~ 2 - Type III Barricade; Install one set on the Northern approach to the bridge, one set at the beginning of each of the two Southern approaches and one set at the end of the one exit ramp (4 total sets)
4. Cover or remove all conflicting route and directional signs
5. New Traffic Pattern - restripe W. Bethel Rd. for two-way traffic

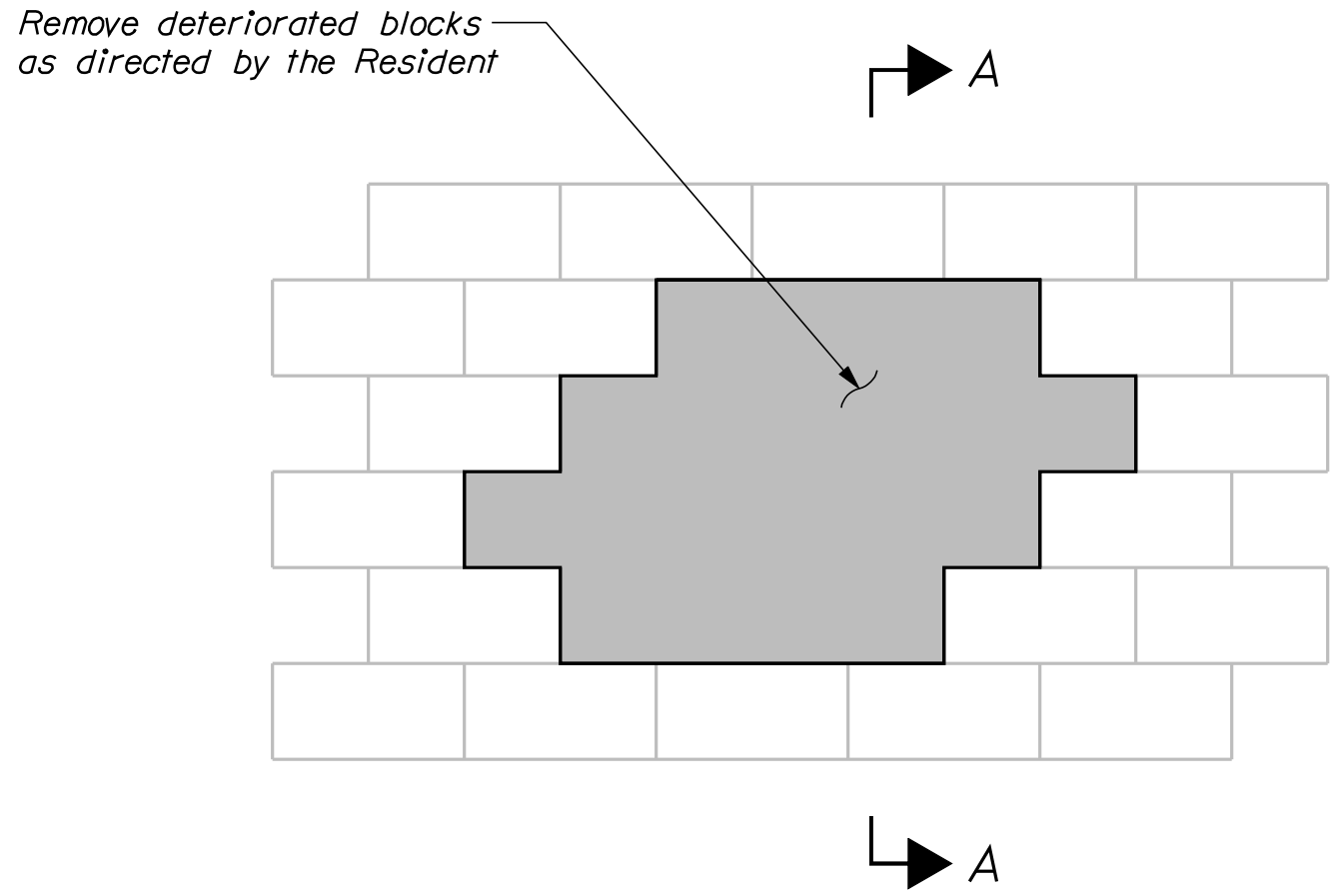


SIGN	SIZE	QTY./NOTE	SIGN	SIZE	QTY./NOTE	SIGN	SIZE	QTY./NOTE
	72" x 48"	5		72" x 48"	1		72" x 48"	1
	72" x 48"	5		72" x 48"	1		72" x 48"	2
	72" x 48"	2		72" x 48"	2		72" x 48"	1
	72" x 48"	2		72" x 48"	1		72" x 48"	1
	72" x 48"	2		72" x 48"	1		60" x 24"	1 Black on Orange



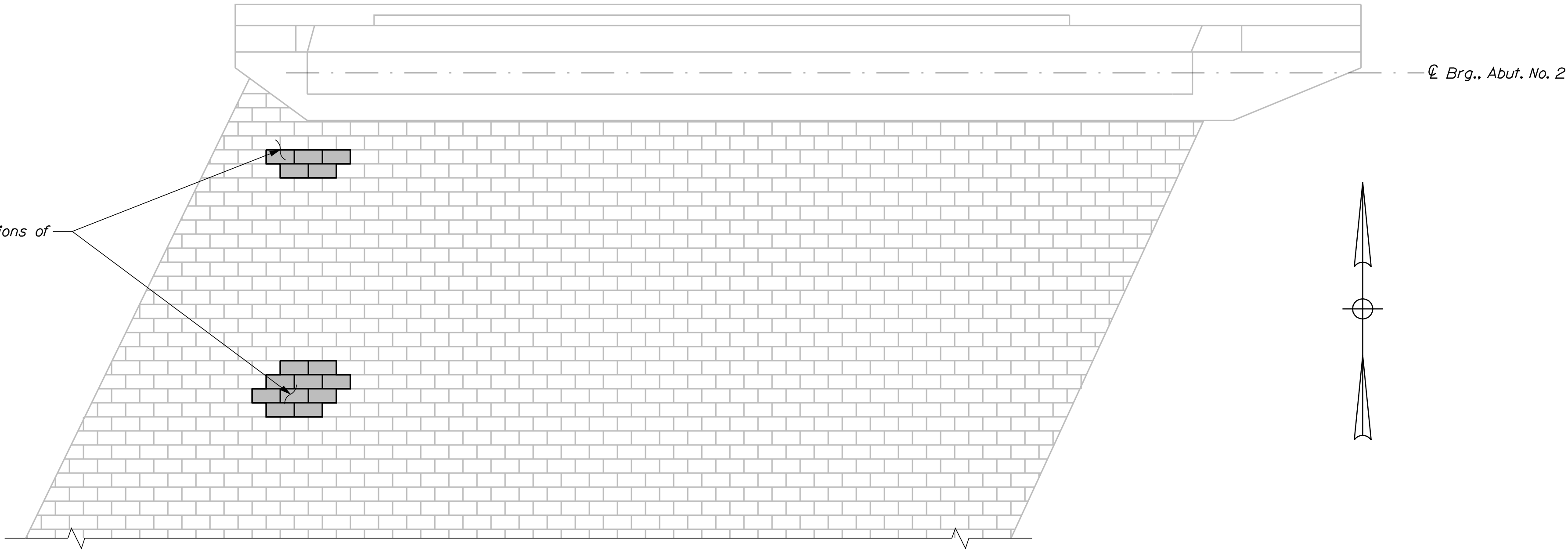
TEMPORARY INTERSECTION CONFIGURATION
Intersection of Parkway and Route 2

C.N.R. Xing BRIDGE RAILROAD ST.\ SL&A RR. BETHEL OXFORD COUNTY TRAFFIC CONTROL PLAN	STATE OF MAINE DEPARTMENT OF TRANSPORTATION		DATE BY SB PROJ. MANAGER		SIGNATURE P.E. NUMBER DATE	
	BH-1685(100)X		DESIGN-DETAILED CHECKED-REVIEWED DESIGN-DETAILED		EC EC	
	BRIDGE NO. 3791 PIN 16851.00		REVISIONS 1 REVISIONS 2 REVISIONS 3 REVISIONS 4		FIELD CHANGES	
	5 OF 17		SHEET NUMBER		BRIDGE PLANS	

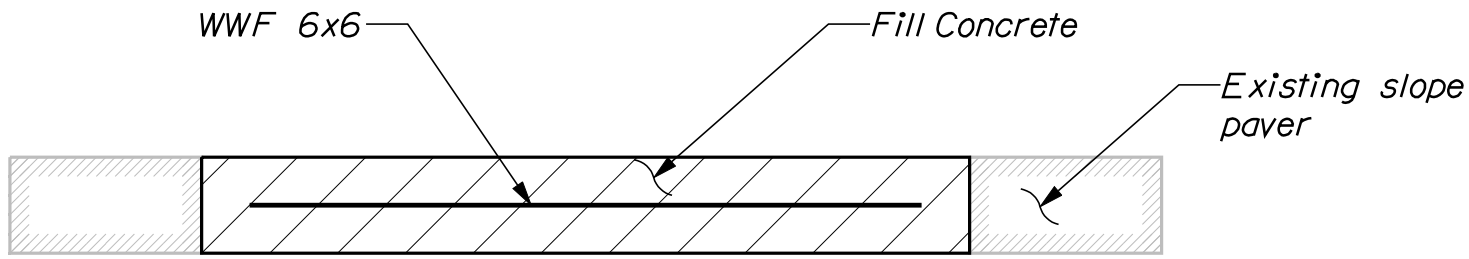


SLOPE REPAIR DETAIL

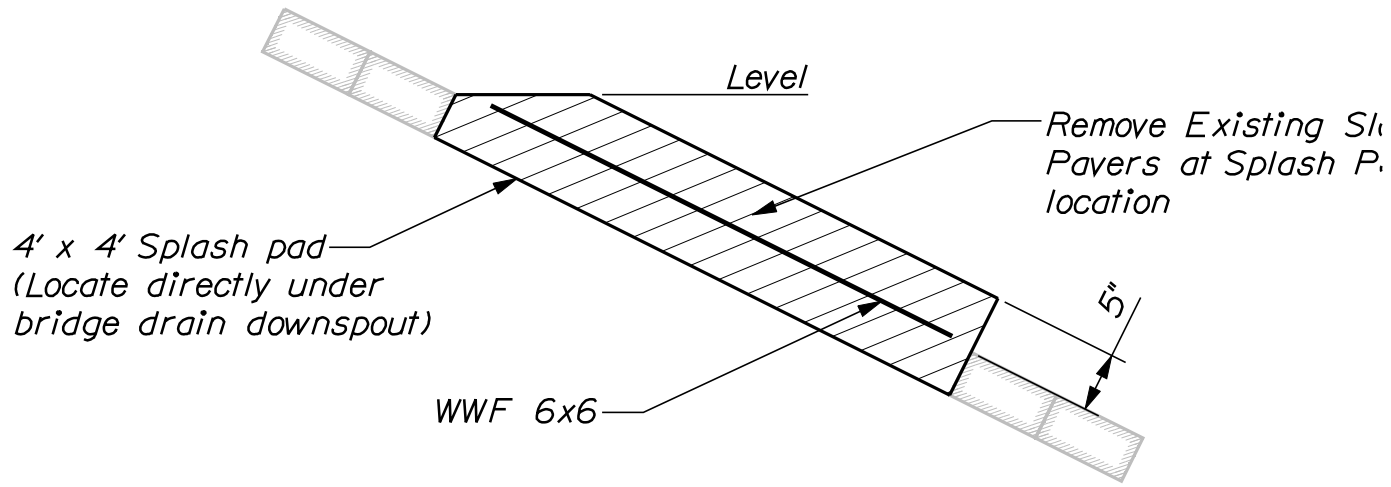
Approximate locations of slope repair work



ABUTMENT NO. 2 SLOPE PROTECTION REPAIR



SECTION "A-A"



SPLASH PAD
One located under each bridge drain downspout

STATE OF MAINE DEPARTMENT OF TRANSPORTATION BH-1685(100)X BRIDGE NO. 3791 PIN 16851.00 BRIDGE PLANS	DATE				SIGNATURE				P.E. NUMBER				DATE			
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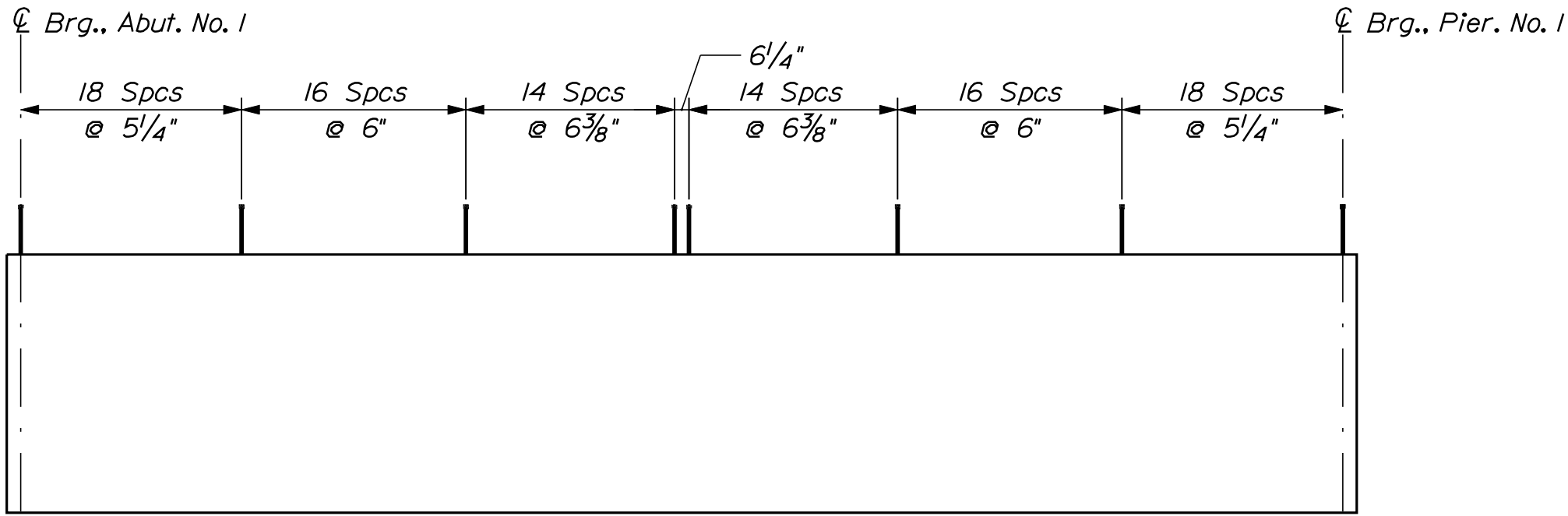
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SHEET NUMBER	

Date:1/11/2011

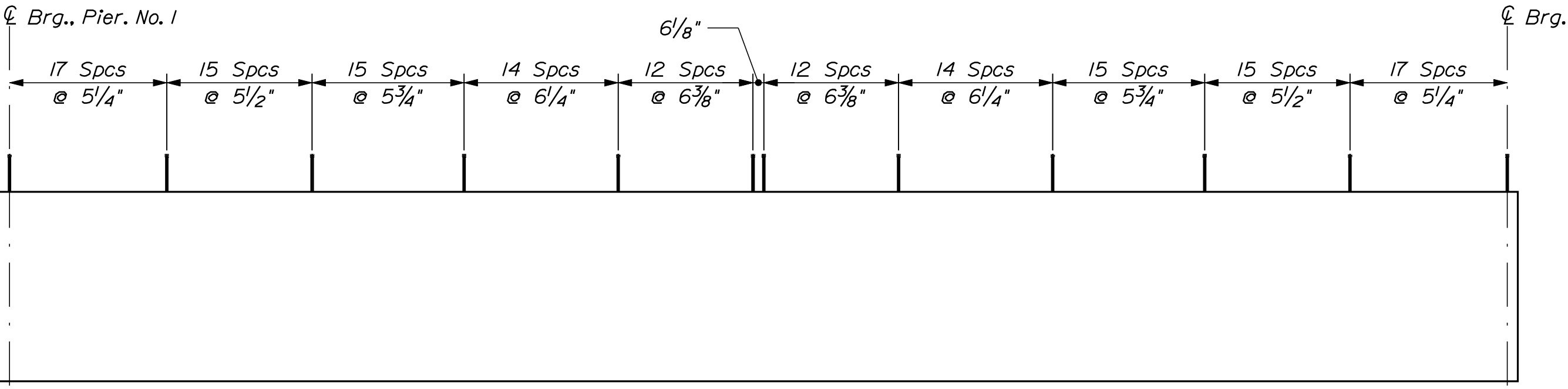
Username: brian.j.nichols

Division: BRIDGE

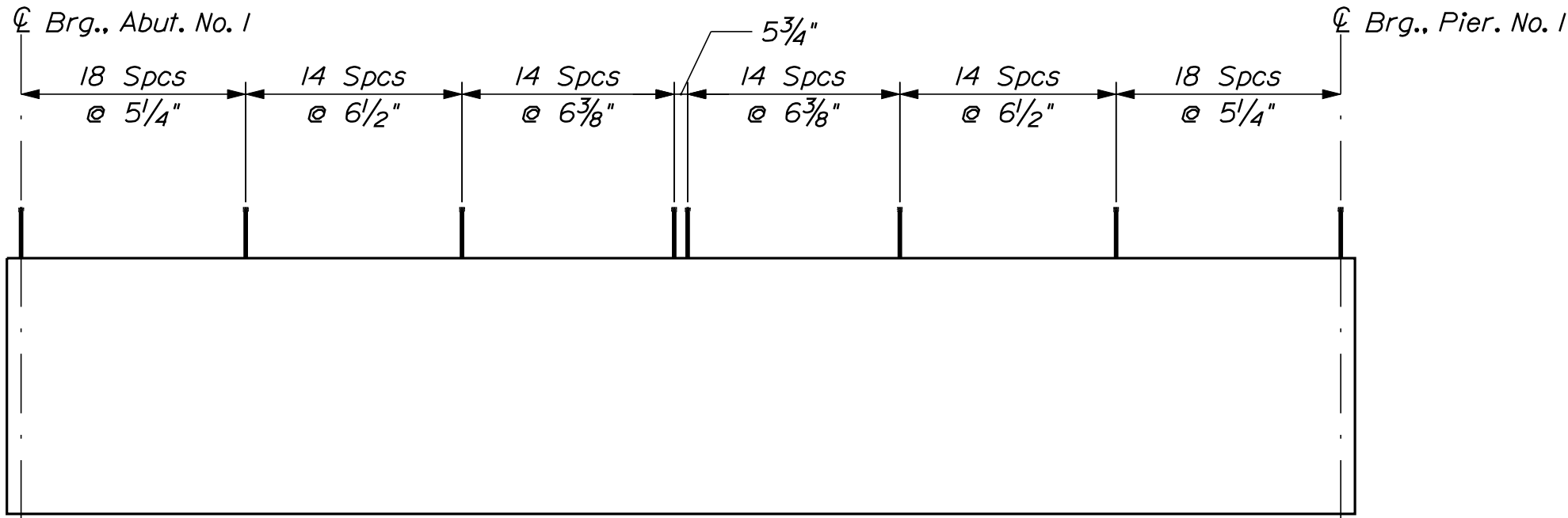
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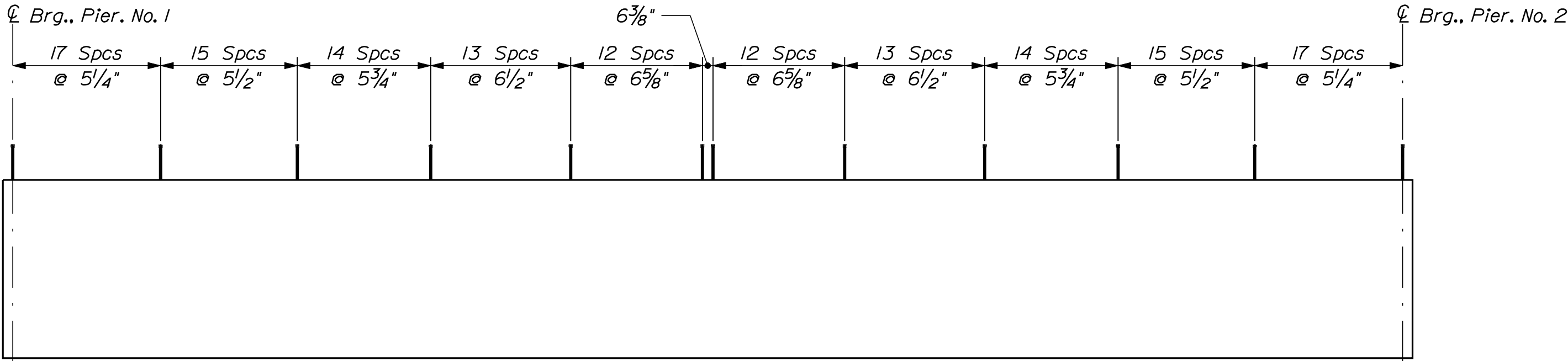
BEAM LINE 1 - SPAN NO. 1
ea.ch row consists of two studs (Typ. ea., beam)
Total studs = 196 ea. beam



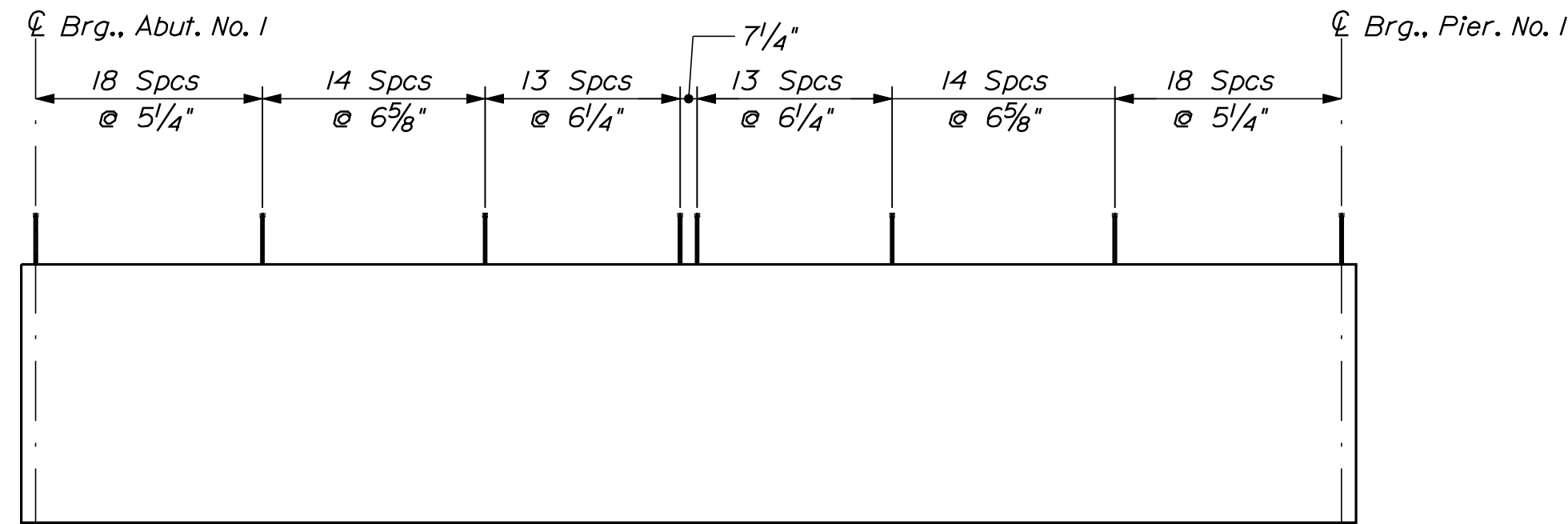
BEAM LINE 1 - SPAN NO. 2
Total studs = 296 ea. beam



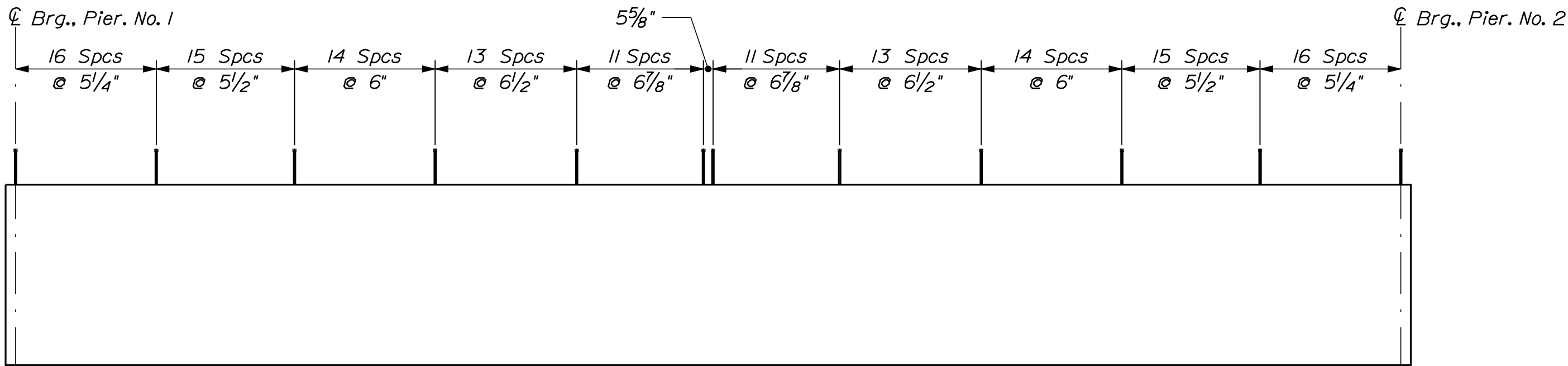
BEAM LINES 2-5 - SPAN NO. 1
Total studs = 188 ea. beam



BEAM LINES 2-5 - SPAN NO. 2
Total studs = 288 ea. beam

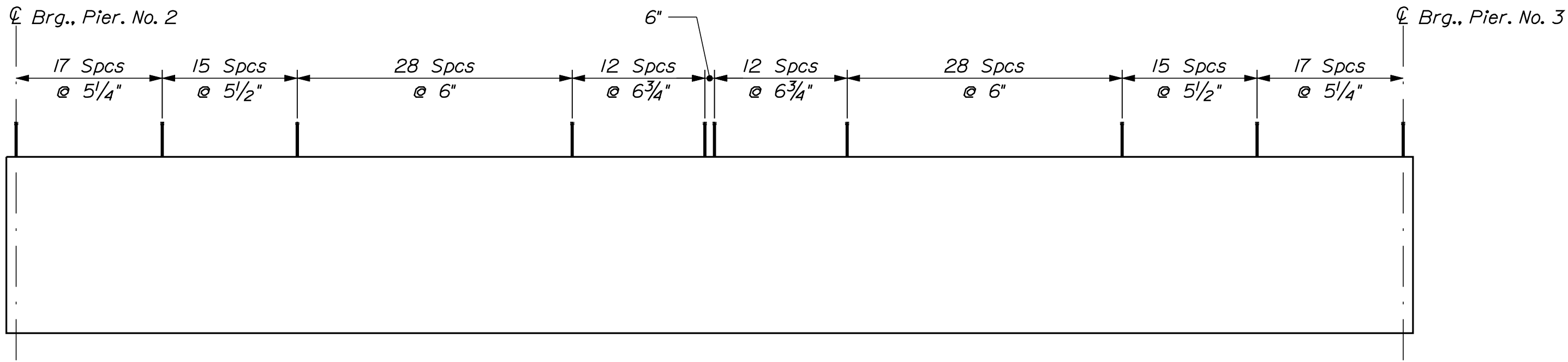


BEAM LINE 6 - SPAN NO. 1
Total studs = 184 ea. beam

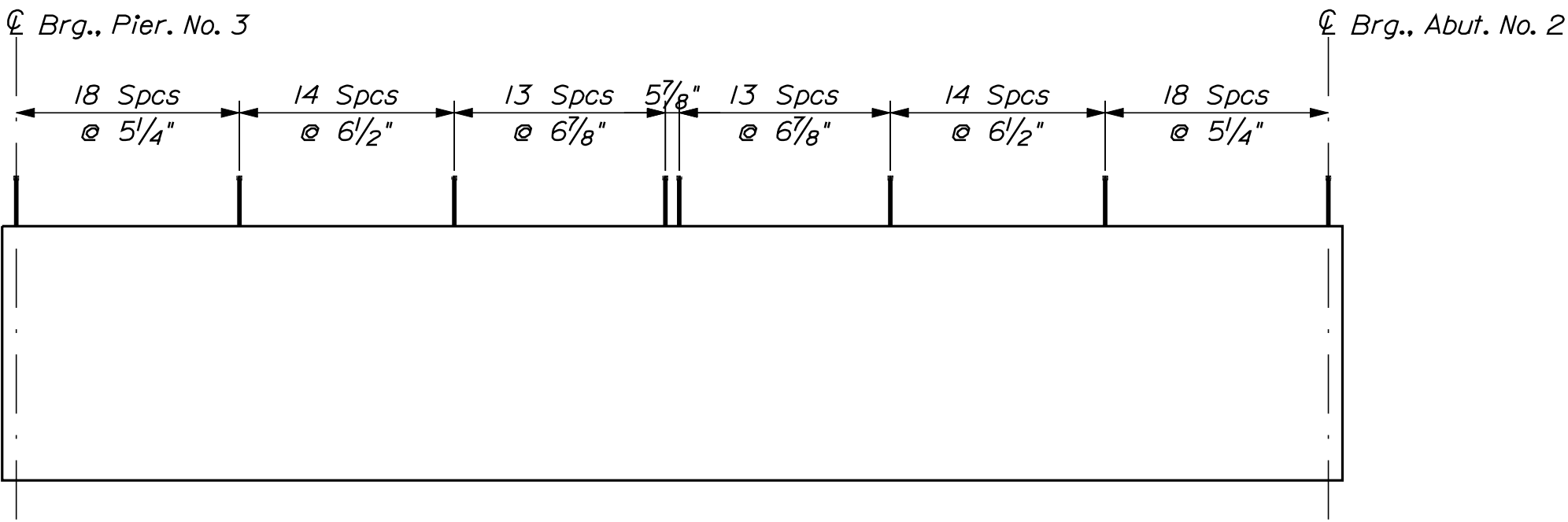


BEAM LINE 6 - SPAN NO. 2
Total studs = 280 ea. beam

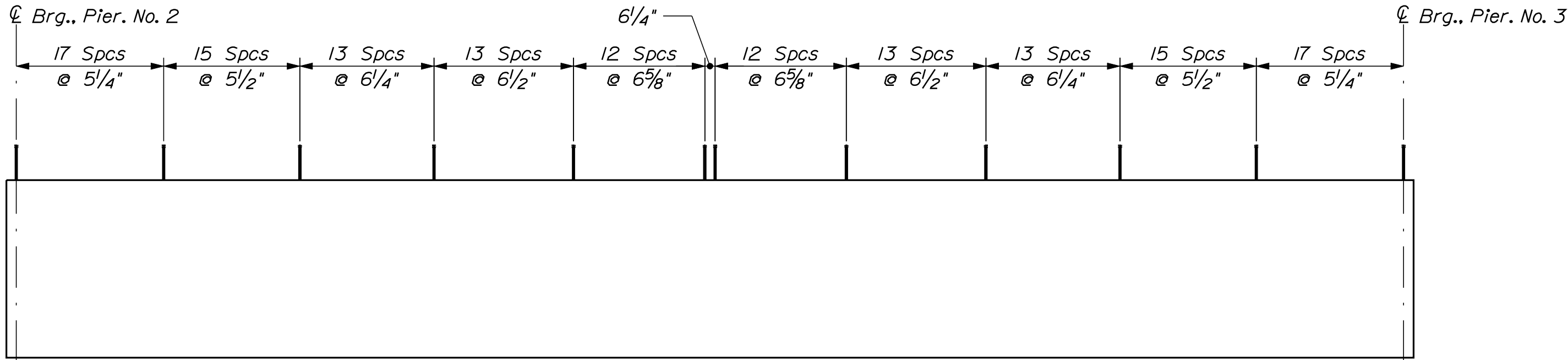
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DEPARTMENT OF TRANSPORTATION									
BH-1685(100)X									
BRIDGE NO. 3791									
PIN 16851.00									
BRIDGE PLANS									
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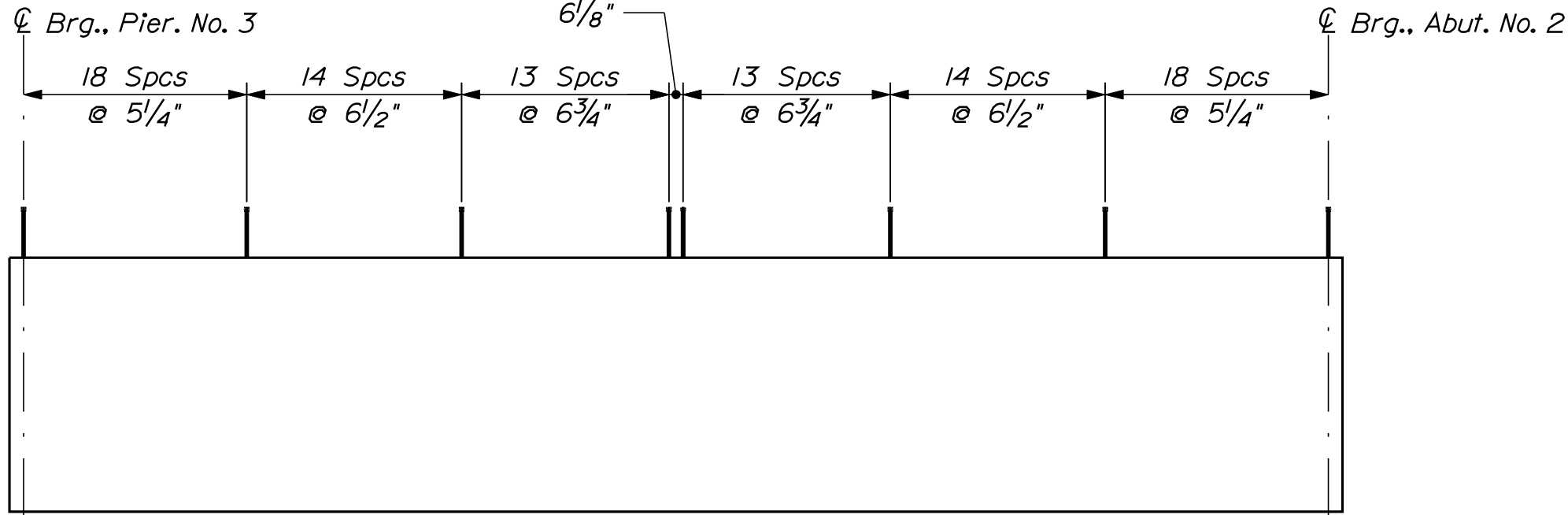
BEAM LINE 1 - SPAN NO. 3
Total studs = 292 ea. beam



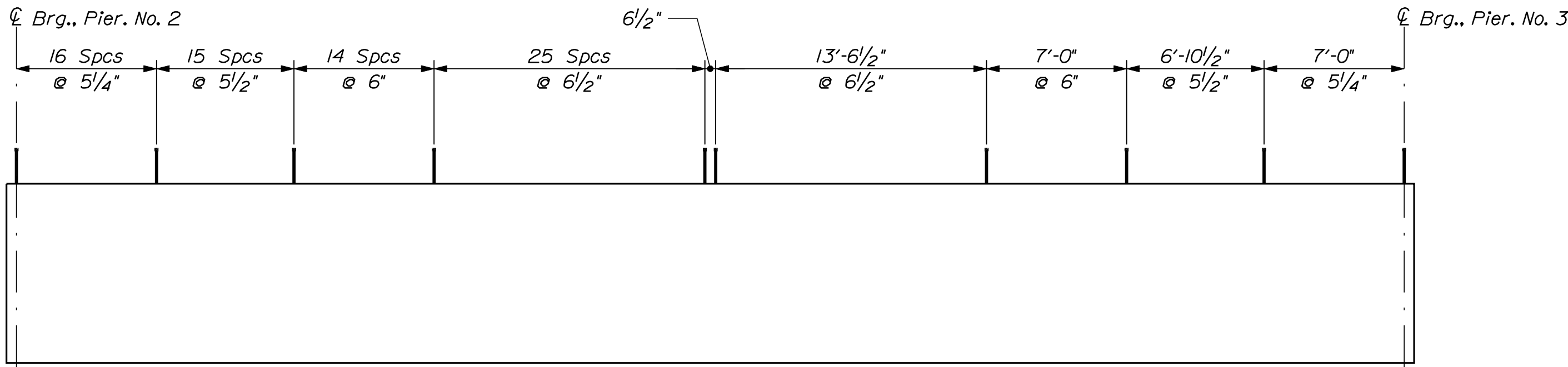
BEAM LINE 1 - SPAN NO. 4
Total studs = 184 ea. beam



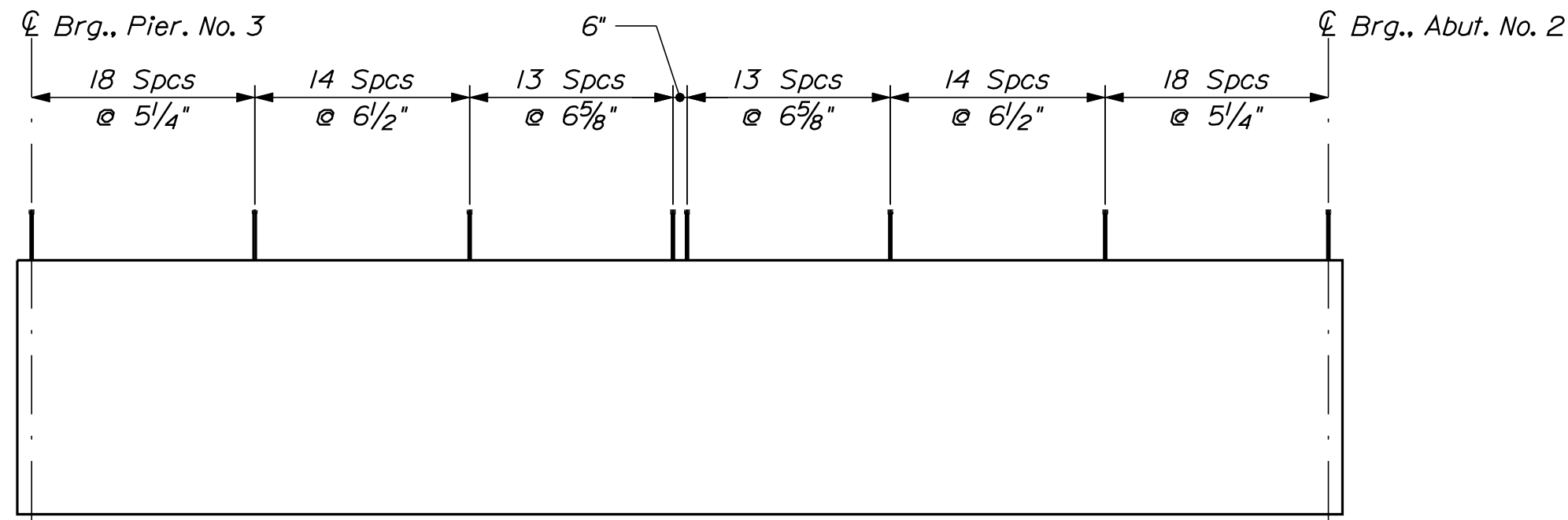
BEAM LINES 2-5 - SPAN NO. 3
Total studs = 284 ea. beam



BEAM LINES 2-5 - SPAN NO. 4
Total studs = 184 ea. beam

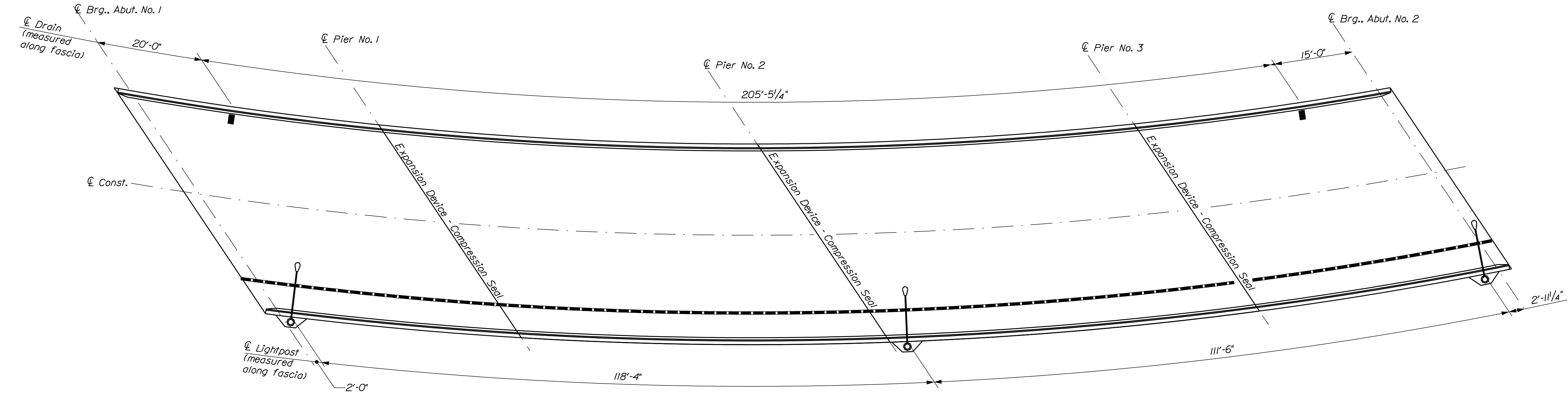


BEAM LINE 6 - SPAN NO. 3
Total studs = 284 ea. beam

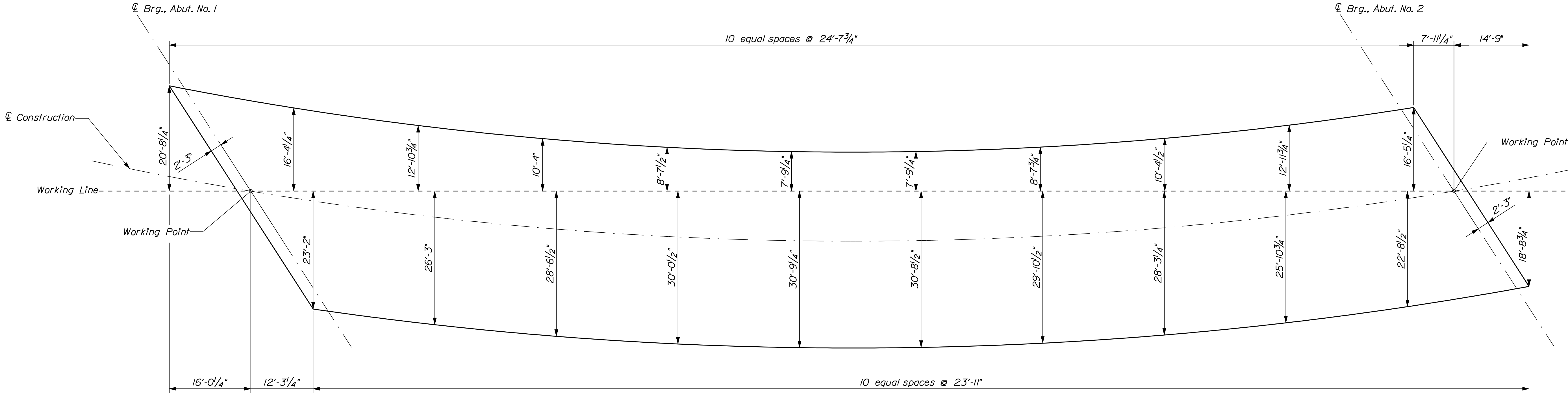


BEAM LINE 6 - SPAN NO. 4
Total studs = 184 ea. beam

STATE OF MAINE DEPARTMENT OF TRANSPORTATION BH-1685(100)X	BRIDGE NO. 3791		PIN 16851.00		BRIDGE PLANS	
	C.N.R. Xing BRIDGE RAILROAD ST.\ SL&A RR. BETHEL OXFORD COUNTY					
	SHEAR STUDS - SPANS 3 & 4					
SHEET NUMBER 9						
OF 17						

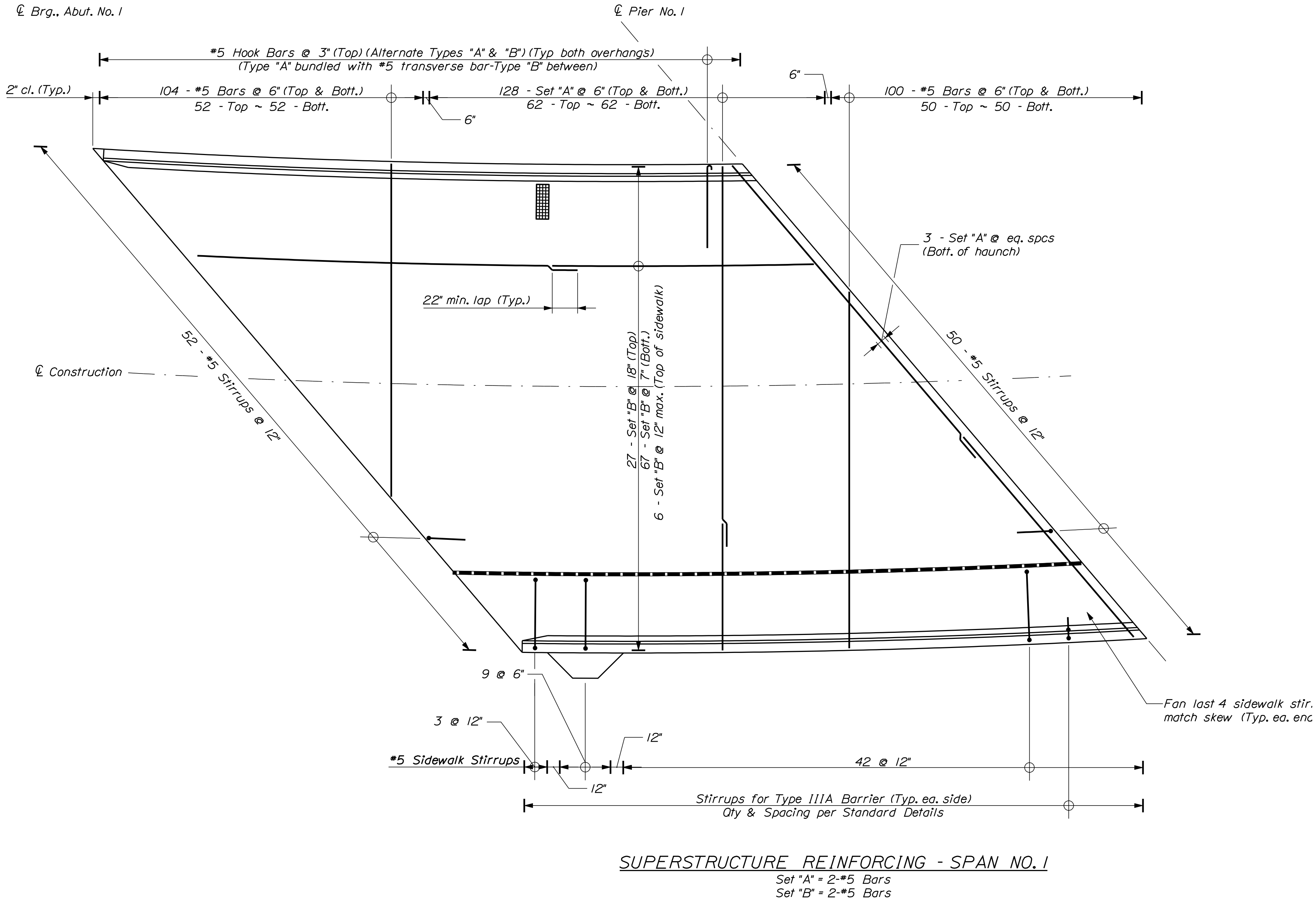


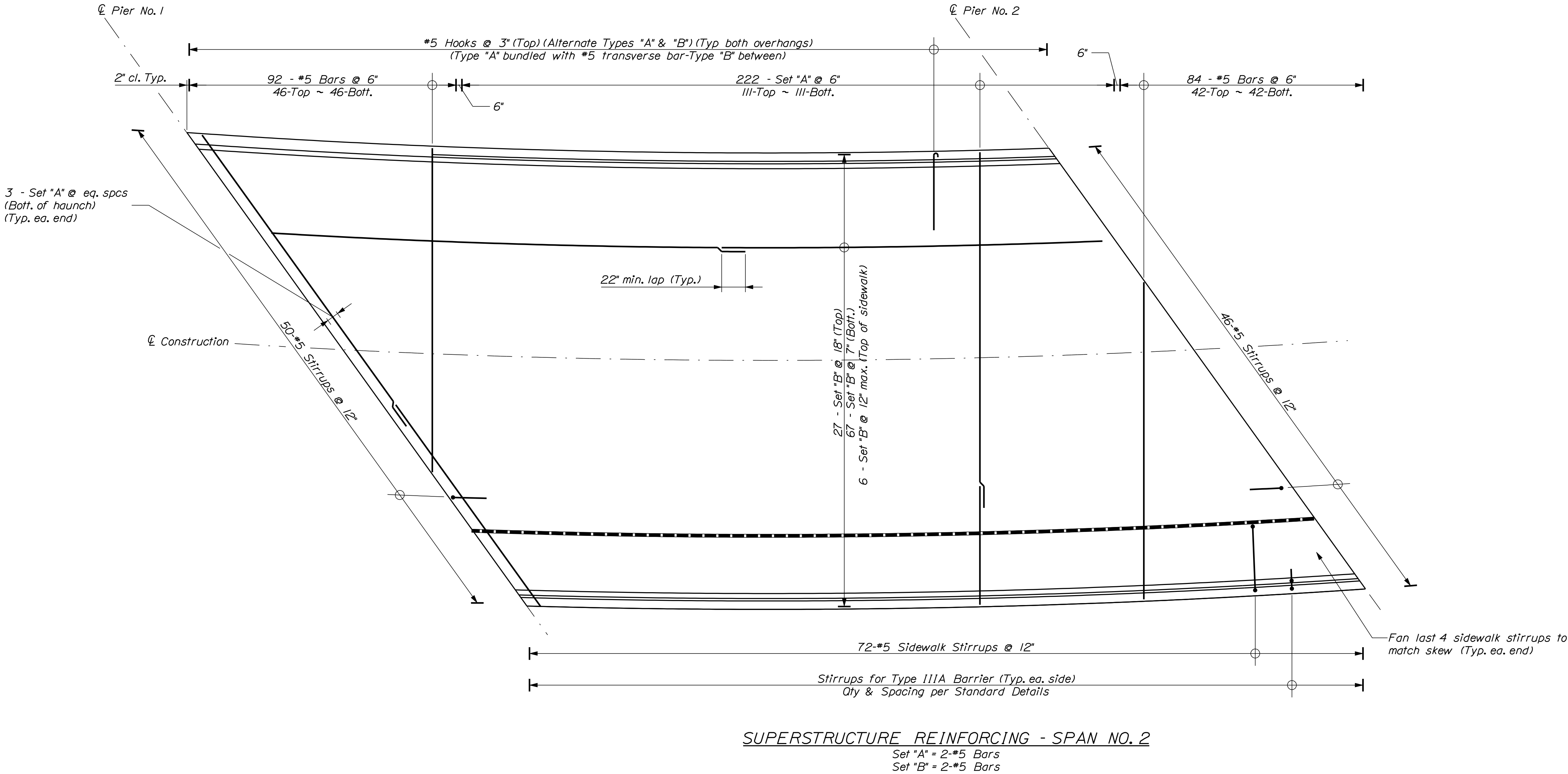
SUPERSTRUCTURE PLAN



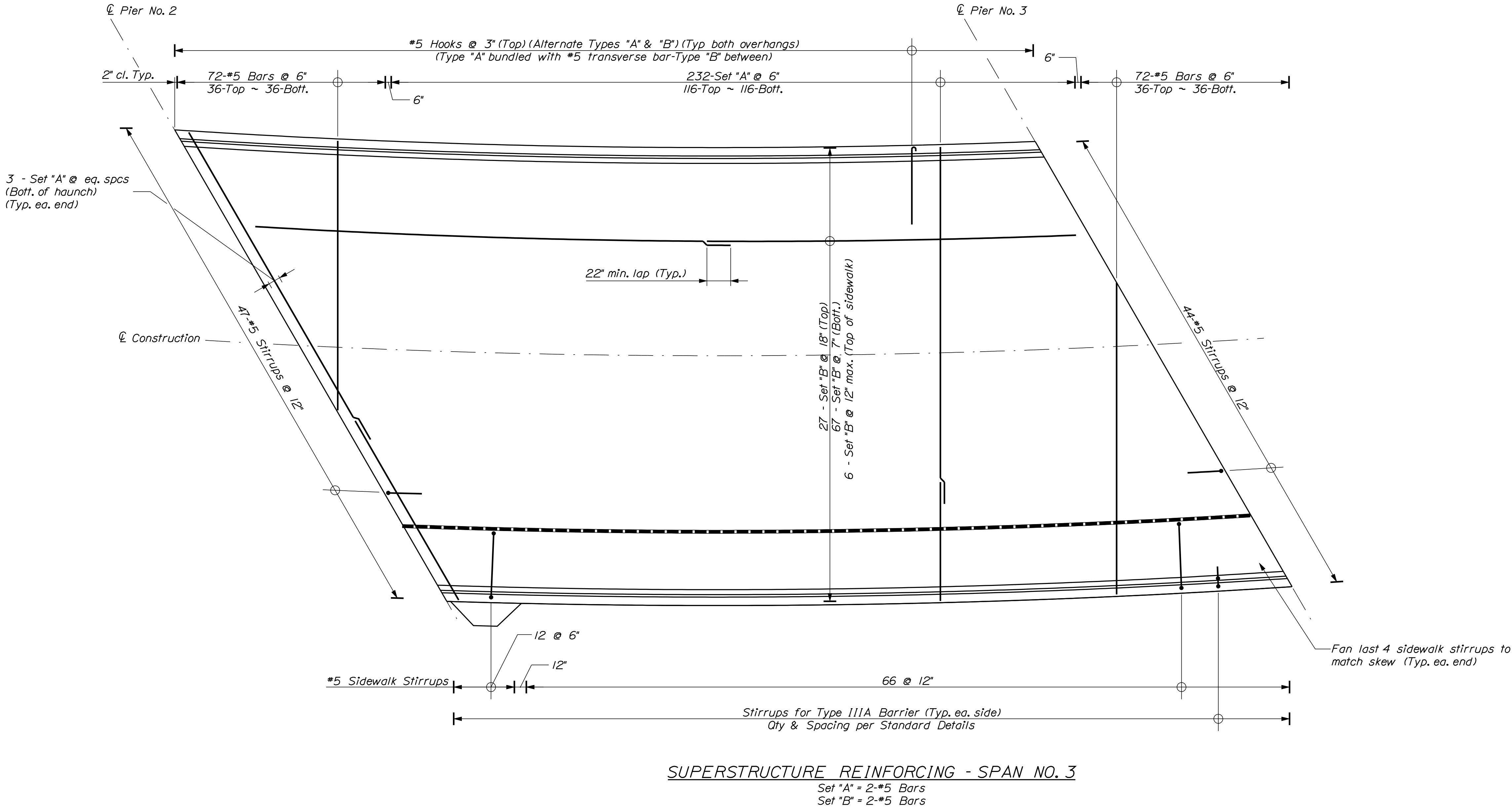
FASCIA LAYOUT

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	SIGNATURE		DATE
	BH-1685(100)X		P.E. NUMBER
	BRIDGE NO. 3791		BRIDGE PLANS
C.N.R. Xing BRIDGE RAILROAD ST.\ SL&A RR. BETHEL OXFORD COUNTY		SHEET NUMBER 10 OF 17	
SUPERSTRUCTURE PLAN		FIELD CHANGES	



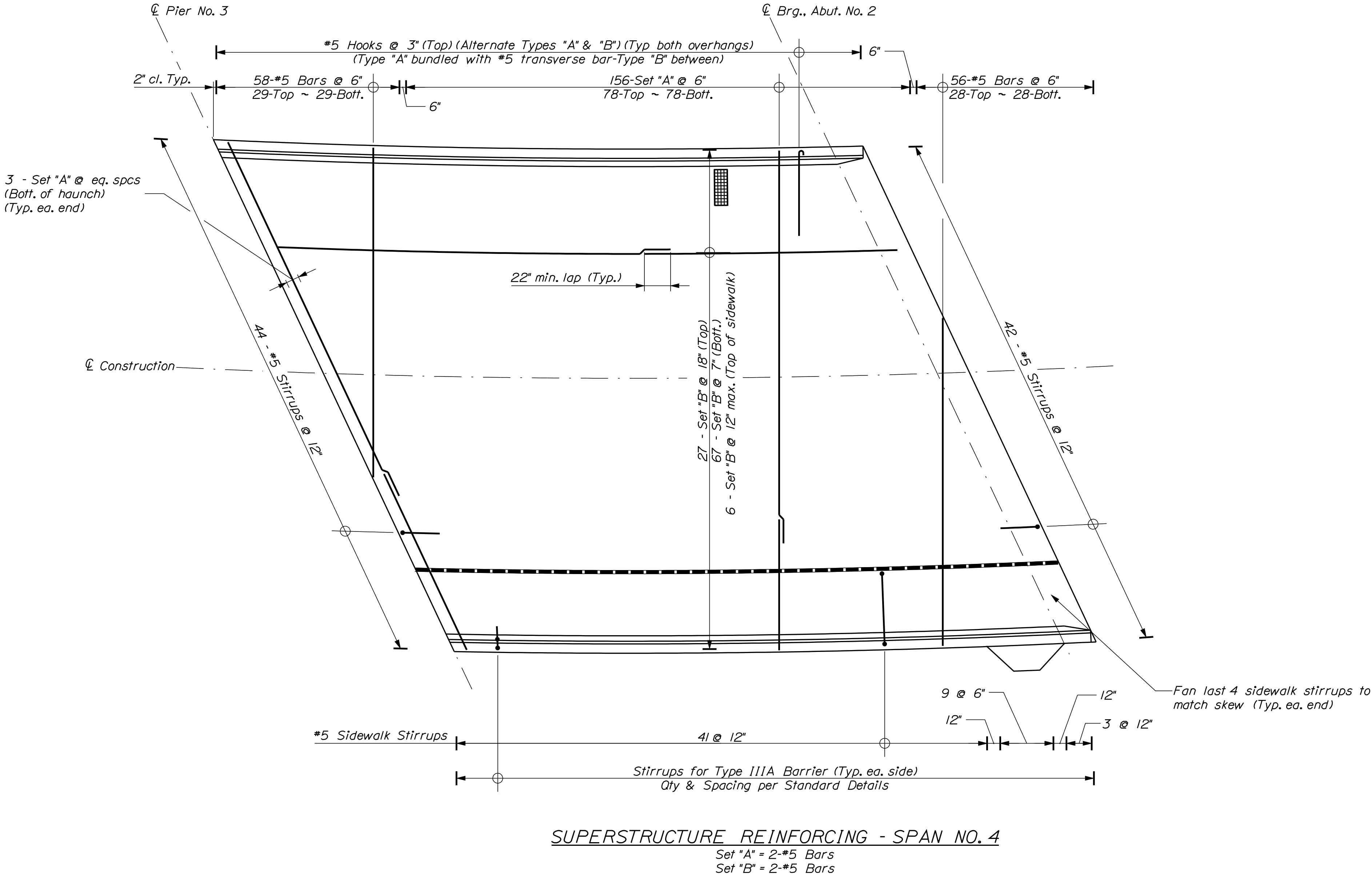


C.N.R. Xing BRIDGE RAILROAD ST.\ SL&A RR. BETHEL	STATE OF MAINE DEPARTMENT OF TRANSPORTATION	
	BH-1685(100)X	
	BRIDGE NO. 3791 PIN 16851.00	BRIDGE PLANS
SHEET NUMBER 12 OF 17	PROJ. MANAGER CHECKED-REVIEWED DESIGN-DETAILED REVISIONS 1 REVISIONS 2 REVISIONS 3 REVISIONS 4 FIELD CHANGES	
	DATE DATE DATE DATE DATE DATE DATE DATE	
	BY BY BY BY BY BY BY BY	
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	SIGNATURE P.E. NUMBER DATE	

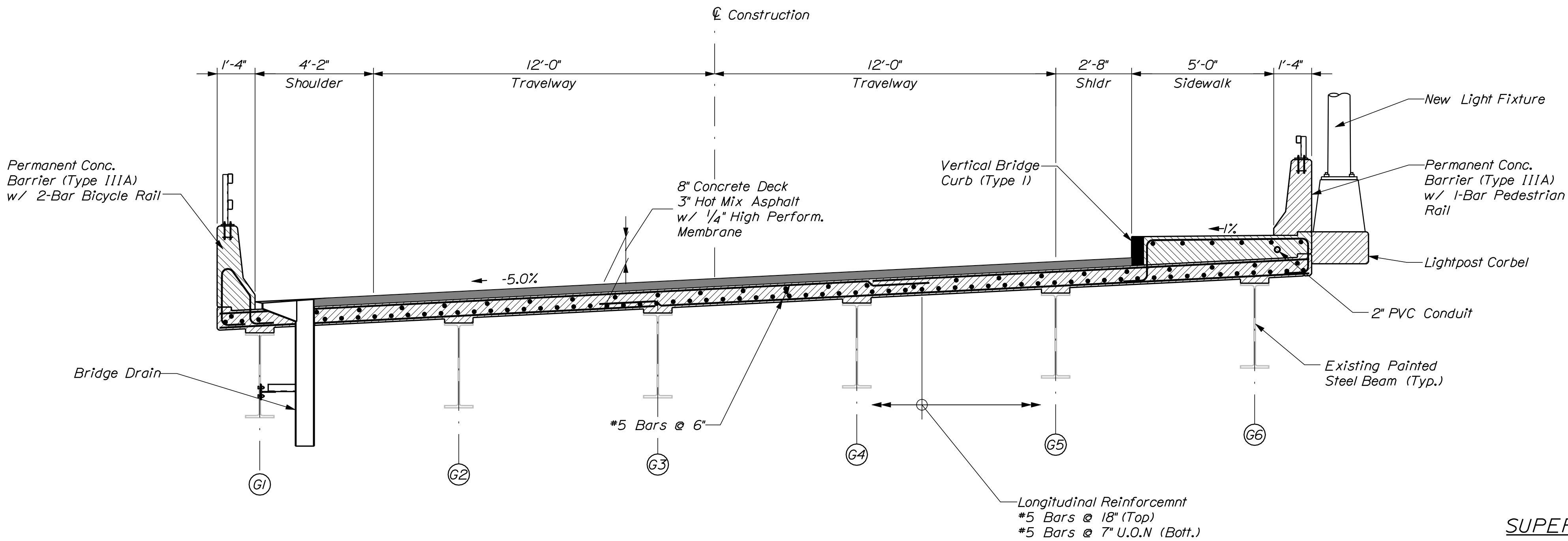


SUPERSTRUCTURE REINFORCING - SPAN NO. 3
 Set "A" = 2-#5 Bars
 Set "B" = 2-#5 Bars

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
BH-1685(100)X		P.E. NUMBER	
BRIDGE NO. 3791		PIN 16851.00	
BRIDGE PLANS			
C.N.R. Xing BRIDGE		PROJ. MANAGER	
RAILROAD ST. \ SL&A RR.		DESIGN-DETAILED	
BETHEL		CHECKED-REVIEWED	
OXFORD COUNTY		DESIGN-DETAILED	
SUPERSTRUCTURE REINFORCING		DESIGN-DETAILED	
SPAN 3		REVISIONS 1	
		REVISIONS 2	
		REVISIONS 3	
		REVISIONS 4	
		FIELD CHANGES	
SHEET NUMBER		DATE	
13		SIGNATURE	
OF 17		P.E. NUMBER	
		DATE	



C.N.R. Xing BRIDGE RAILROAD ST.\ SL&A RR. BETHEL OXFORD COUNTY SUPERSTRUCTURE REINFORCING SPAN 4				PROJ. MANAGER		SB	BY	DATE
				DESIGN-DETAILED	BJR		BJN	
				CHECKED-REVIEWED	EC		RN	
				DESIGN2-DETAILED2				
				DESIGN3-DETAILED3				
				REVISIONS 1				
				REVISIONS 2				
				REVISIONS 3				
				REVISIONS 4				
				FIELD CHANGES				
SHEET NUMBER				STATE OF MAINE DEPARTMENT OF TRANSPORTATION BH-1685(100)X BRIDGE NO. 3791 PIN 16851.00 BRIDGE PLANS				
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OF 17								



TYPICAL PROPOSED BRIDGE SECTION

See Details "A" & "B" for additional reinforcing at overhangs

BOTTOM OF SLAB ELEVATIONS

For the purposes of this table, The bridge seat on Abutment No. 1, Stringer Line No. 1 shall be called El. 100.00

Span No. 1							
	℄ Brg	1/6 Span	1/3 Span	1/2 Span	2/3 Span	5/6 Span	℄ Brg
Stringer Line 1	103.39	103.60	103.81	104.00	104.17	104.34	104.48
Stringer Line 2	103.92	104.12	104.31	104.47	104.63	104.78	104.91
Stringer Line 3	104.41	104.61	104.78	104.94	105.10	105.23	105.37
Stringer Line 4	104.90	105.08	105.26	105.41	105.56	105.69	105.82
Stringer Line 5	105.38	105.56	105.72	105.88	106.02	106.14	106.26
Stringer Line 6	105.89	106.04	106.19	106.32	106.45	106.56	106.66

Span No. 3									
	℄ Brg	1 Span	2 Span	3 Span	4 Span	5 Span	6 Span	7 Span	℄ Brg
Stringer Line 1	105.39	105.46	105.49	105.54	105.56	105.57	105.57	105.55	105.48
Stringer Line 2	105.55	105.52	105.48	105.41	105.78	105.84	105.88	105.91	105.93
Stringer Line 3	105.91	105.93	105.94	105.92	105.89	105.84	105.80	105.73	106.14
Stringer Line 4	105.73	106.14	106.20	106.23	106.27	106.28	106.28	106.27	106.24
Stringer Line 5	106.27	106.24	106.19	106.14	106.07	106.50	106.55	106.58	106.62
Stringer Line 6	106.58	106.62	106.63	106.62	106.61	106.57	106.53	106.48	106.39

Span No. 2											
	℄ Brg	1 Span	2 Span	3 Span	4 Span	5 Span	6 Span	7 Span	8 Span	9 Span	℄ Brg
Stringer Line 1	104.50	104.65	104.77	104.90	105.02	105.12	105.19	105.26	105.32	105.37	105.39
Stringer Line 2	105.26	105.32	105.37	105.39	104.96	105.11	105.23	105.34	105.45	105.53	105.61
Stringer Line 3	105.34	105.45	105.53	105.61	105.66	105.70	105.74	105.74	105.39	105.53	105.65
Stringer Line 4	105.74	105.39	105.53	105.65	105.76	105.86	105.94	106.01	106.06	106.09	106.13
Stringer Line 5	106.01	106.06	106.09	106.13	106.13	105.81	105.95	106.06	106.16	106.26	106.34
Stringer Line 6	106.06	106.16	106.26	106.34	106.40	106.45	106.49	106.52	106.50	106.22	106.37

Span No. 4							
	℄ Brg	1/6 Span	1/3 Span	1/2 Span	2/3 Span	5/6 Span	℄ Brg
Stringer Line 1	105.41	105.36	105.31	105.24	105.15	105.05	104.95
Stringer Line 2	105.74	105.69	105.63	105.55	105.46	105.36	105.25
Stringer Line 3	106.06	106.00	105.95	105.87	105.78	105.67	105.55
Stringer Line 4	106.38	106.33	106.25	106.18	106.09	105.98	105.87
Stringer Line 5	106.70	106.65	106.57	106.50	106.40	106.30	106.18
Stringer Line 6	107.03	106.96	106.89	106.80	106.70	106.60	106.47

SUPERSTRUCTURE NOTES

- The theoretical blocking used for design of the structure is 2 inch at the centerline of bearing of the abutments and piers. Refer to Standard Detail 502(02) for blocking details.
- Reinforcing steel shall have a minimum concrete cover of 2 inches unless otherwise noted.
- Adjust reinforcing steel to fit around the bridge drains in a manner approved by the Resident. Do not cut transverse reinforcing bars.
- Form a one inch V-groove on the fascias at the horizontal joint between the curb and slab.
- The superstructure slab concrete for each span shall be placed continuously and shall be kept plastic until the entire placement has been made.
- At the Contractor's option, Precast Deck Panels may be used in place of the full depth cast-in-place deck slab, in accordance with Special Provisions Section 502, Structural Concrete - Precast Deck Panels, and in accordance with the Standard Details.
- Payment for reinforcing steel fabricated, delivered, and placed in the cast-in-place portion of the structural concrete slab will be considered incidental to the appropriate Standard Specifications Section 502 pay item.
- Mortar for bedding and for joints in the granite curb shall contain an approved non-shrink additive.
- The seal(s) to be furnished shall have minimum Movement Rating(s) as follows:

Pier No. 1 = 0.625 inch
Pier No. 2 = 1.00 inch
Pier No. 3 = 1.50 inch
- The Resident shall approve the seals prior to fabrication of the Expansion Device.
- The Contractor shall install Transition Barrier vertical closed stirrups, as shown in Standard Details Section 526, prior to the placement of the curb or sidewalk concrete.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
BH-1685(100)X

BRIDGE NO. 3791
PIN 16851.00
BRIDGE PLANS

PROJ. MANAGER
CHECKED-DETAILED
DESIGN-DETAILED
DESIGN-1
REVISIONS 1
REVISIONS 2
REVISIONS 3
REVISIONS 4
FIELD CHANGES

DATE
BY
SB
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RN
BLP
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DESIGN-DETAILED
DESIGN-1
REVISIONS 1
REVISIONS 2
REVISIONS 3
REVISIONS 4
FIELD CHANGES

SIGNATURE
P.E. NUMBER
DATE

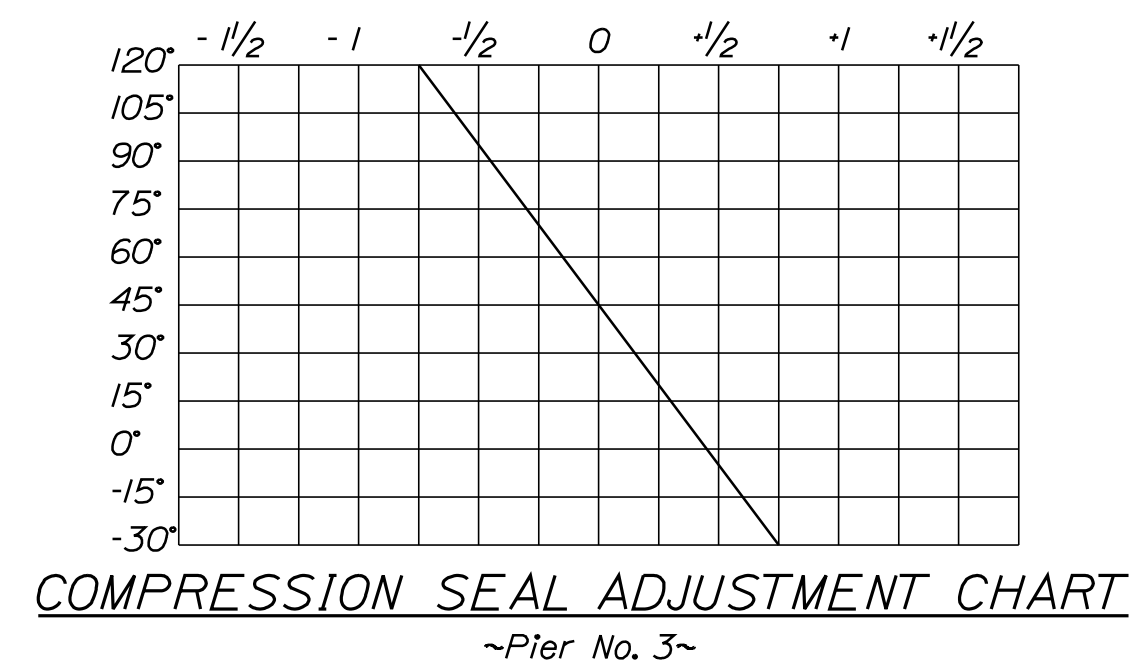
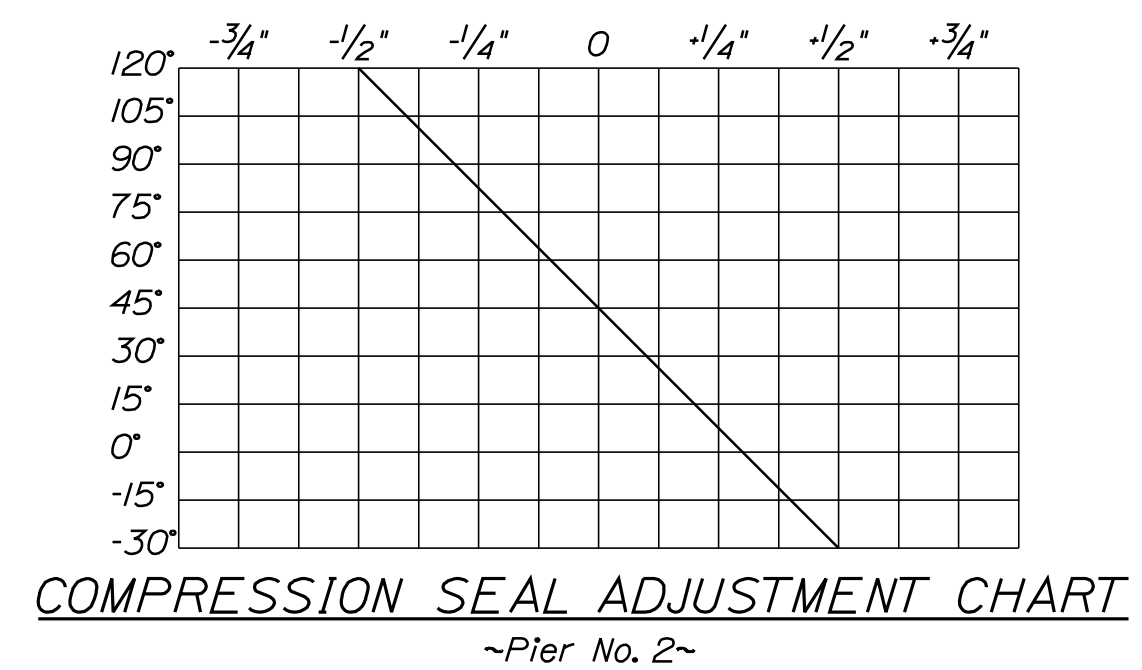
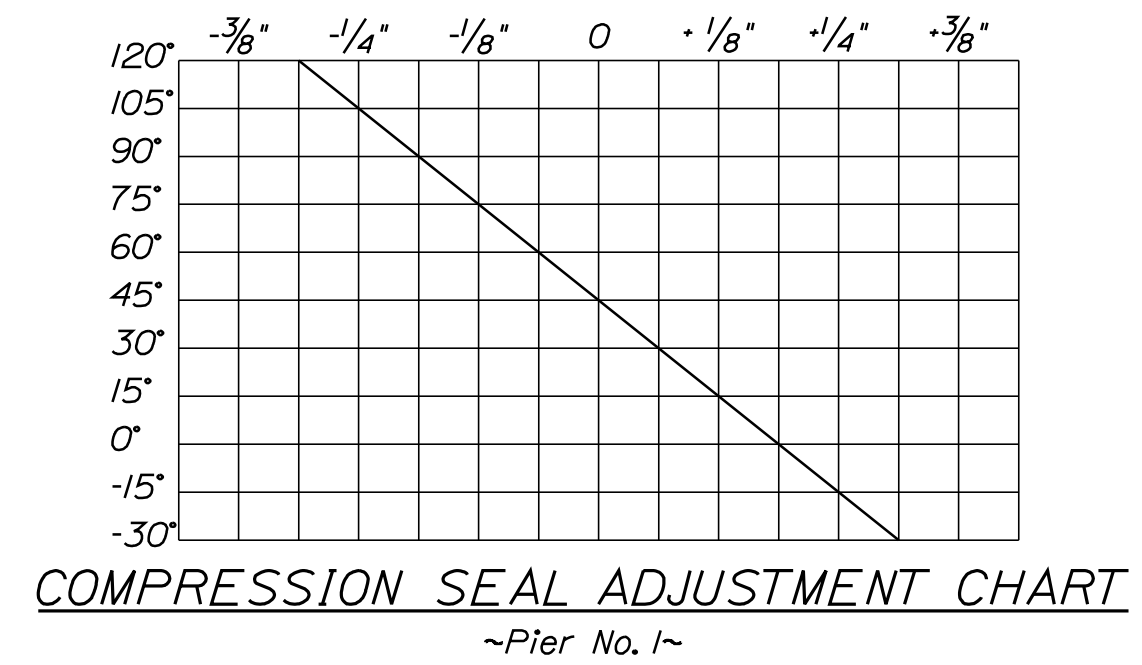
C.N.R. Xing BRIDGE
RAILROAD ST. \ SL&A RR.
BETHEL
OXFORD COUNTY

SUPERSTRUCTURE DETAILS

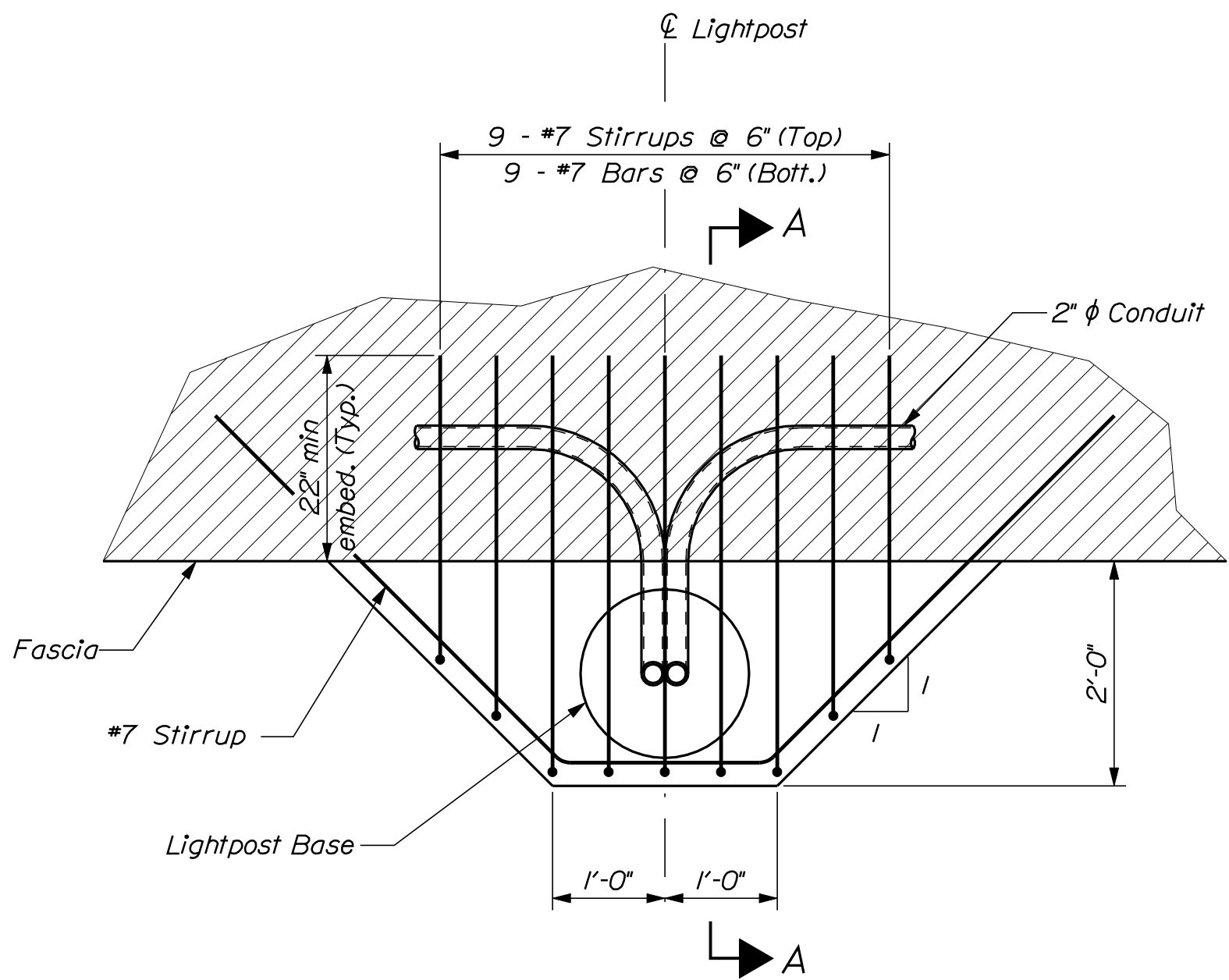
SHEET NUMBER

15

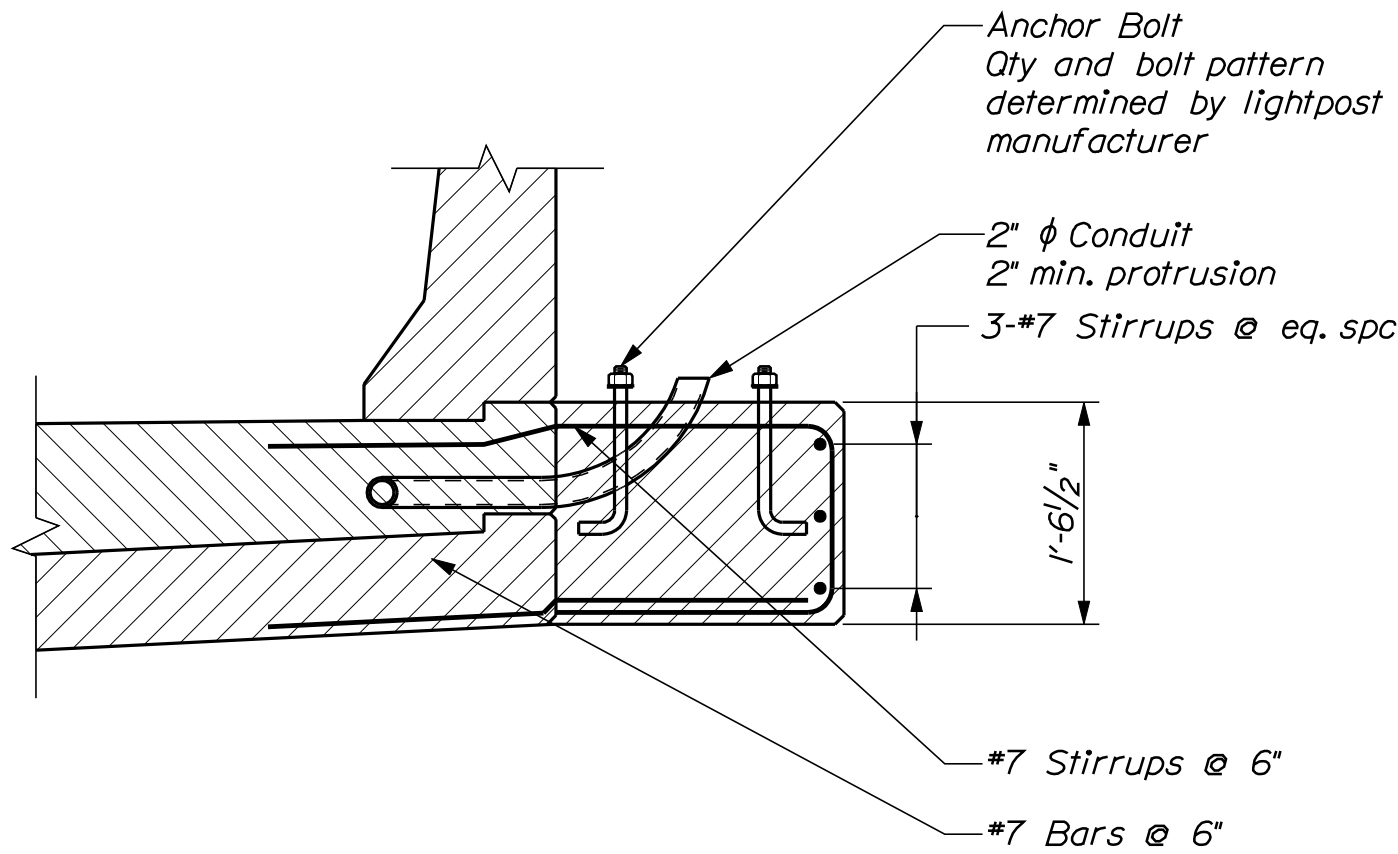
OF 17



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						DESIGN-DETAILED		BJR	BJN		
						CHECKED-REVIEWED		EC	RN	SIGNATURE	
						DESIGN2-DETAILED2					
						DESIGN3-DETAILED3				P.E. NUMBER	
SUPERSTRUCTURE DETAILS		REVISIONS 1									BRIDGE NO. 3791 PIN 16851.00 BRIDGE PLANS
		REVISIONS 2									
		REVISIONS 3									
		REVISIONS 4									
		FIELD CHANGES								DATE	



LIGHTPOST CORBEL



SECTION "A-A"

HIGHWAY LIGHTING NOTES

1. Install lighting as shown on the plans or as directed by the Resident.
2. Luminaries shall be LED IES cutoff with light equivalent to a 250 watt HPS fixture
3. Luminaries shall be top mounted (no bracket arm) on 35 ft galvanized steel or aluminum poles. The poles on the bridge structure shall have vibration dampeners. Each pole shall have duplex outlet in or near the handhold of the pole. They shall be installed in a manner that only authorized personnel can access them.
4. Luminaires shall be gasketed, with double fuse kit and a terminal block. Fixtures shall be gray in color.
5. The plans were designed with a IES full cutoff type 2 250 watt fixture. If different luminaries are proposed, the Contractor must demonstrate that the proposed luminaries will meet or exceed design light levels.
6. Install 2 inch PVC conduit in the bridge structure. Install appropriate expansion devices.
7. Conduit shall be installed on the service pole from the weatherhead to the meter enclosure, and from the meter enclosure down the pole and underground to the bridge structure. This work shall be paid for under Item No. 626.22, Non-Metallic Conduit. All conduit installed in the bridge structure shall be paid for under Item No. 638.01, Embedded Work in Concrete Structure.

STATE OF MAINE DEPARTMENT OF TRANSPORTATION BH-1685(100)X	SHEET NUMBER	
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	OF 17	
C.N.R. Xing BRIDGE RAILROAD ST. \ SL&A RR. BETHEL OXFORD COUNTY	LIGHTING DETAILS	
	REVISIONS	
	FIELD CHANGES	
PROJ. MANAGER DESIGN-DETAILED CHECKED-REVIEWED DESIGN-DETAILED REVISIONS 1 REVISIONS 2 REVISIONS 3 REVISIONS 4	BY SB B.J.N. R.N.	DATE
		SIGNATURE
		P.E. NUMBER
BRIDGE NO. 3791 PIN 16851.00	BRIDGE PLANS	