

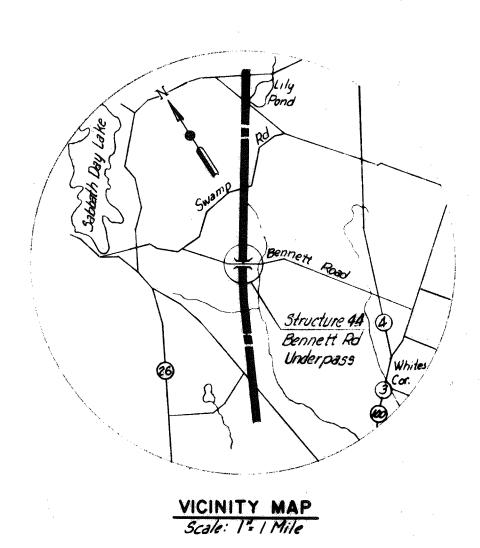
44.01.03

# GENERAL NOTES

DesignSpecifications: AASHO (1953) with minor modifications. Design Loading: H-15 Maximum Base Pressure at Abutments: 1.6 Tons/sq.ft. Maximum Base Pressure at Piers \*1 and \*3: 25 Tons/sq.ft. Maximum Base Pressure at Pier \*2: 2.4 Tons. /sq.ft.

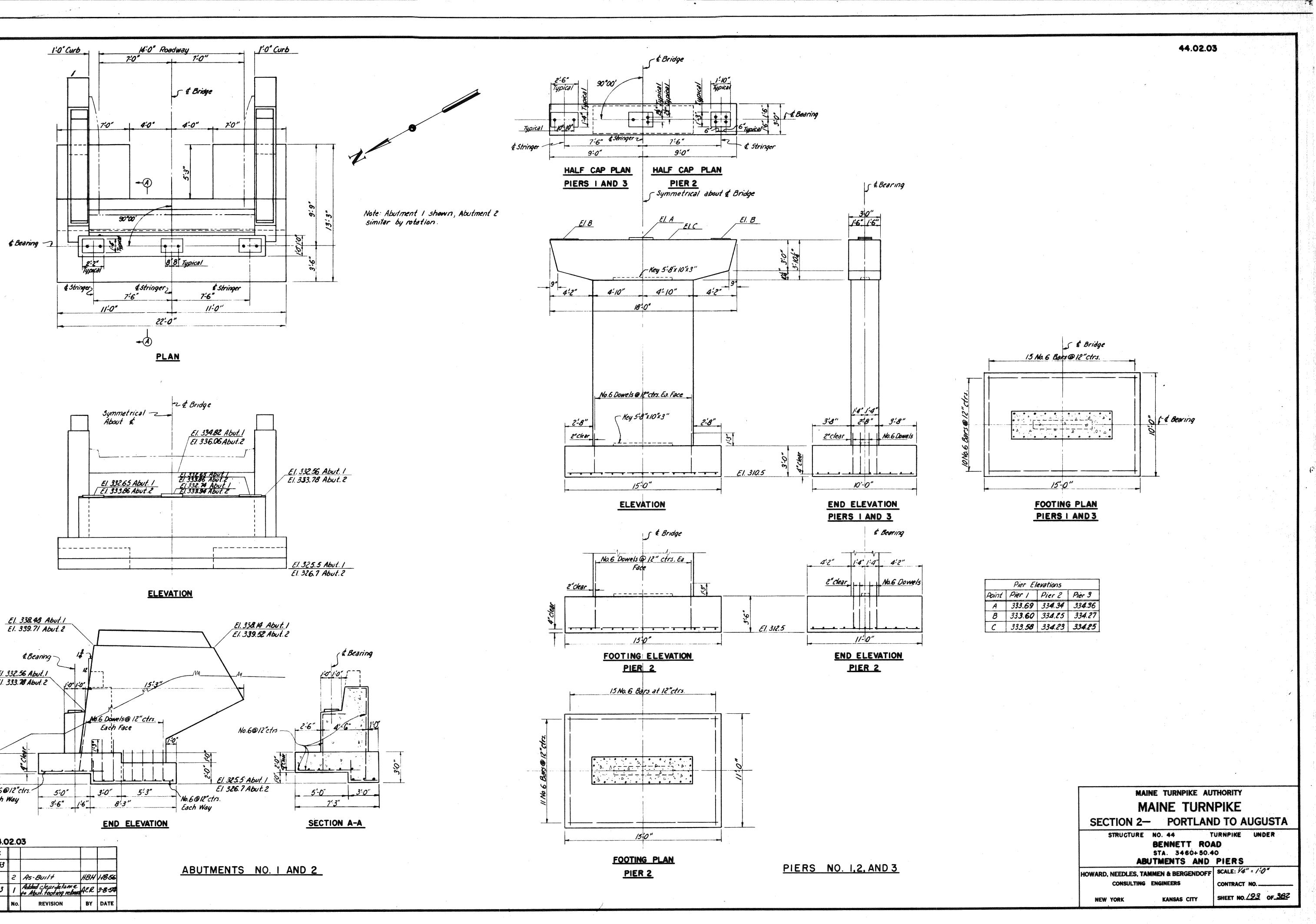
# REFERENCES

Dwg.	Title	Sub-	Superstructure			
No.		structure	Steel Fabricator	Steel Erector	Floor Contractor	
5D1	Standard Abutment Details	V	V	V	r	
5D2	Standard Pier Details	r	V	V		
5D 3	Abutment Drainage Details	Þ				
	Std. Handrail, Bearing Devices and Miscellaneous Details	r	V	r	Y	
	Standard Diaphragm Details	х.	V	V	V	
5D11	Standard Type A Splices for 21W- Bms. Type "X" and "Y" Expansion Joints Standard Bridge Floor Cross Sections	V	N V	V V	r	
	14:0" & 30:0" Roadway	V	V	V	V	

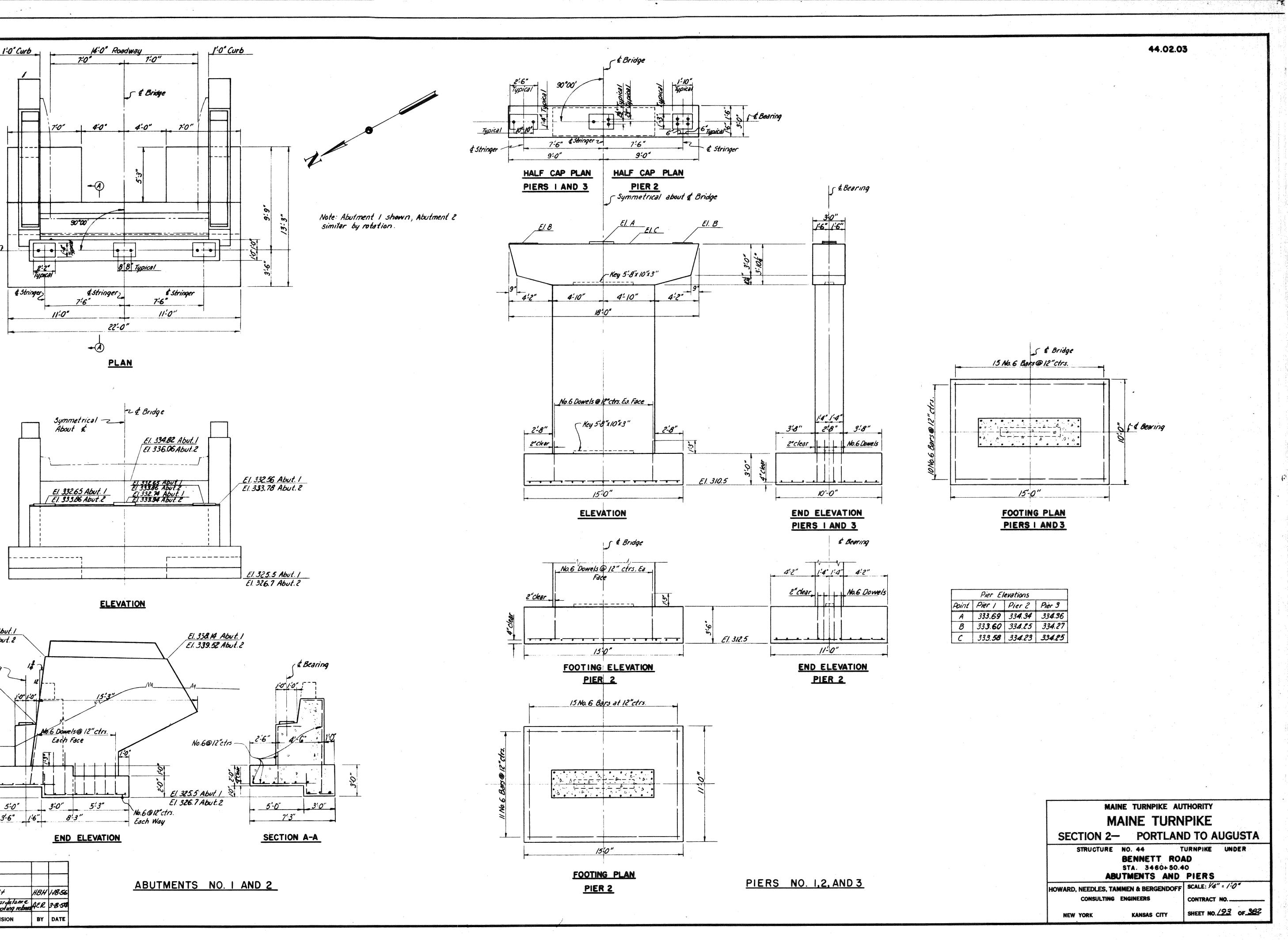


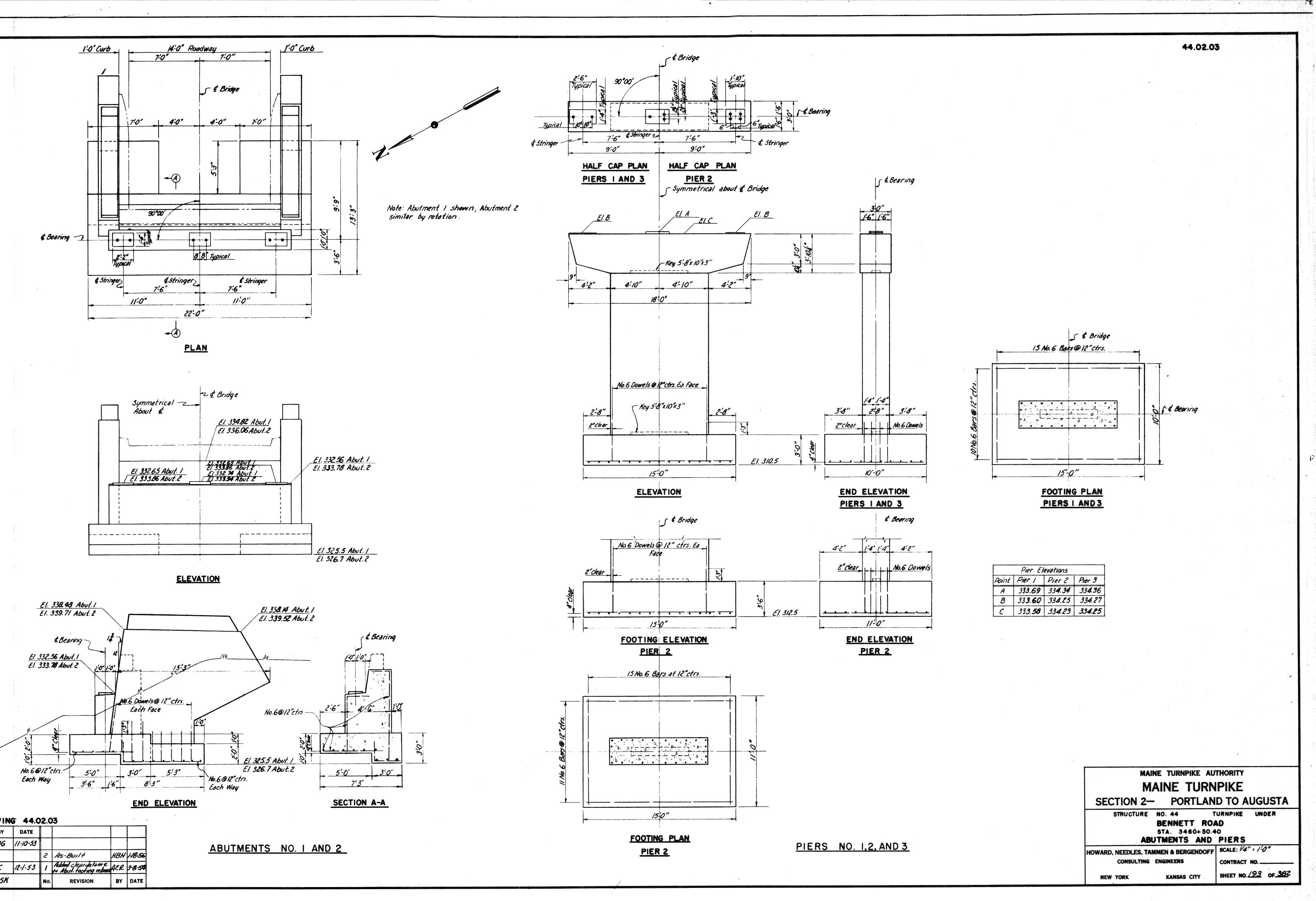
MAINE TURNPIKE AU	THORITY
MAINE TURN	IPIKE
SECTION 2- PORTLAN	D TO AUGUSTA
STRUCTURE NO. 44 BENNETT ROAD STA. 3460+50.40 GENERAL PLAN AND	· · · · ·
HOWARD, NEEDLES, TAMMEN & BERGENDOFF CONSULTING ENGINEERS	SCALE: 3/32 "- 1'-0" CONTRACT NO
NEW YORK KANSAS CITY	SHEET NO. 192 OF 382

Existing Ground Line



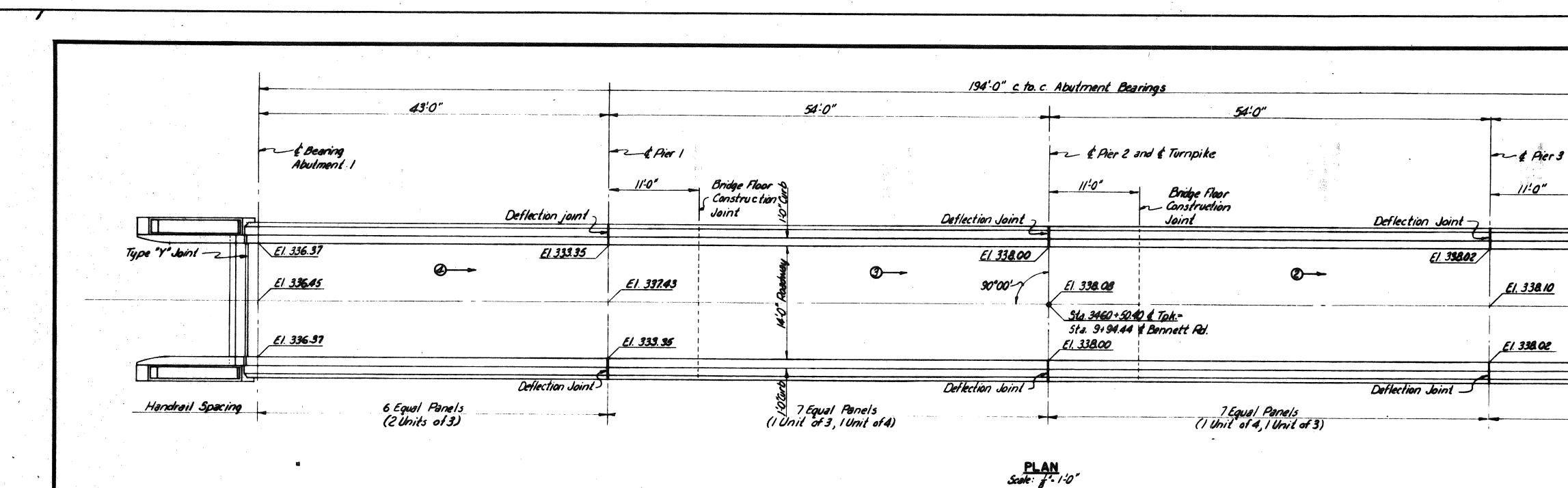


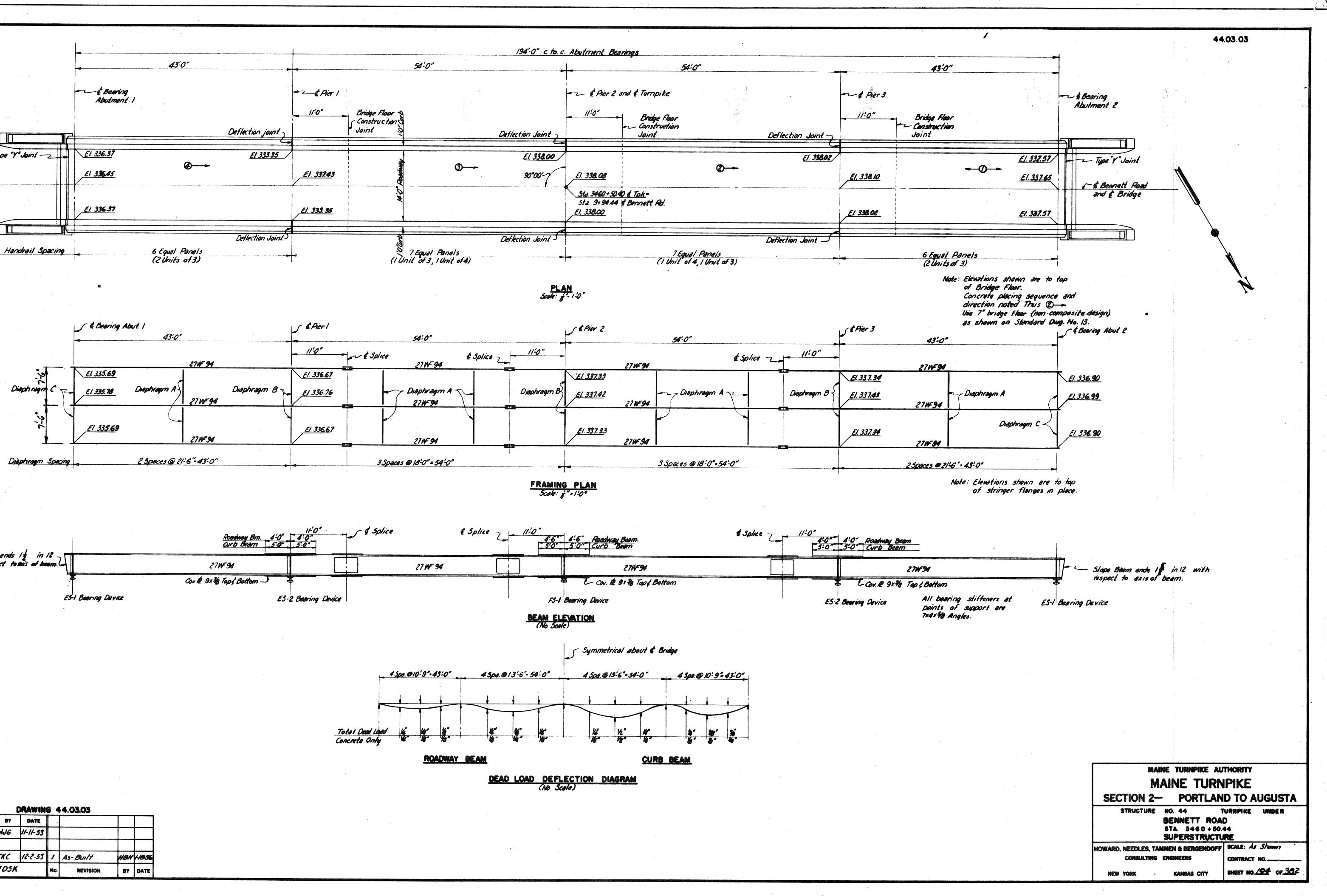


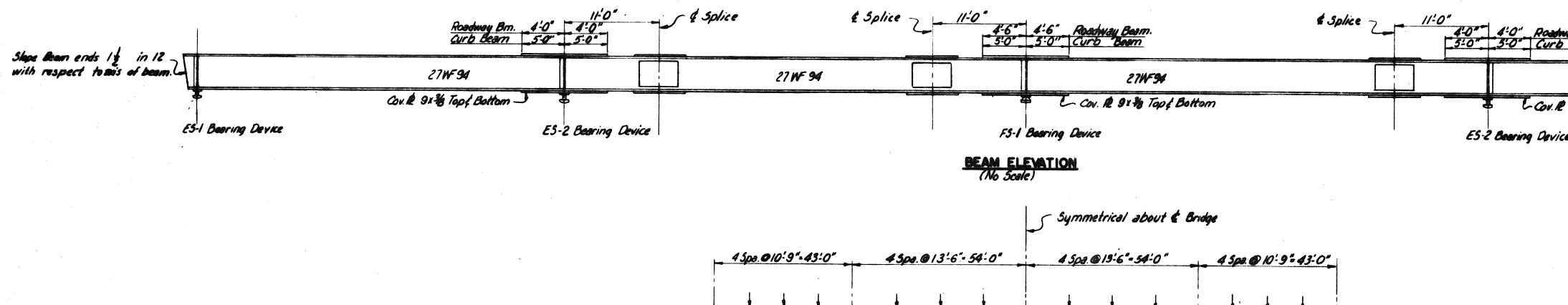


D	RAWIN	G 44.C	2.0	3		۰.
	BY	DATE				
MADE	HJG	11-10-53				
TRACED			2	As-Built	HBH	1.18-56
CHECKED	TKC	12-1-53	1	Added clear detare e to Abut. tooting reben	AER	3-8-54
IN CHARGE OF	IDSK		No.	REVISION	BY	DATE

Hot ALDANERE 1658 3570





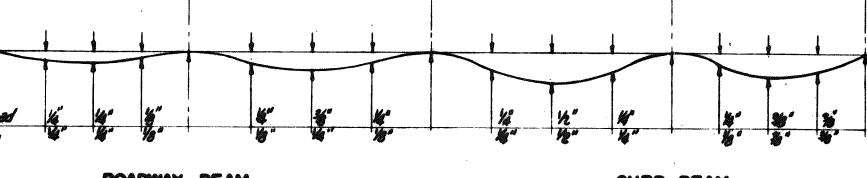


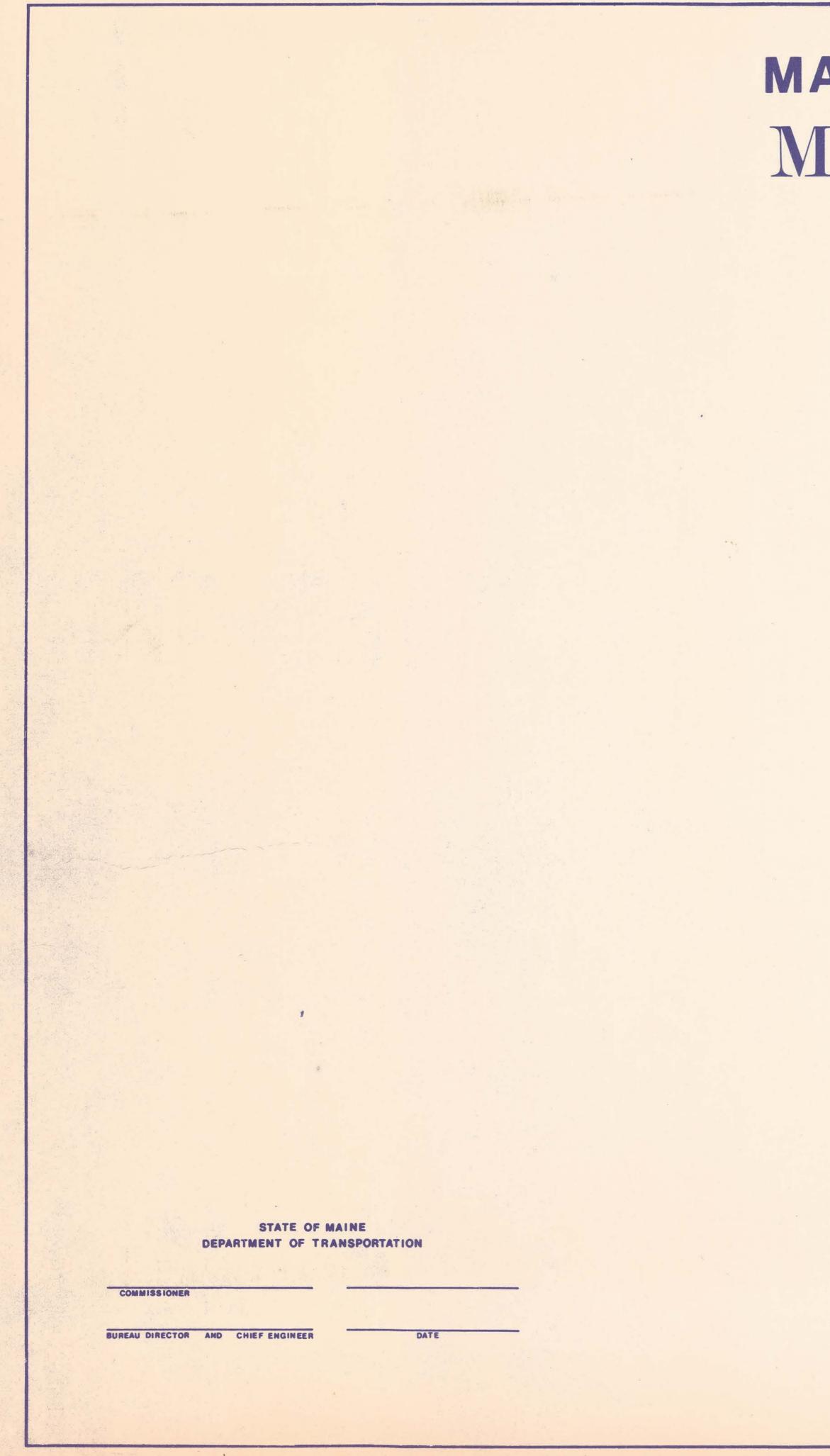
DRAWING 44.03.03										
	BY	DATE			2					
MADE	HJG	11-11-53		inner an an an ann an an an an an an an an an	1					
TRACED				e e e e e e e e e e e e e e e e e e e						
CHECKED	THE	12.2.53	1	As-Built	HBH	1.185				
IN CHARGE O	IDSK	ſ	NO.	REVISION	BY	DATE				

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# MAINE TURNPIKE AUTHORITY MAINE TURNPIKE

, CHAIRMAN ROBERT K. PACIOS, VICE CHAIRMAN ABRAHAM LEIBOWITZ, MEMBER SAMUEL L. COHEN, MEMBER DANA F. CONNORS, MEMBER EX-OFFICIO

DAVID H. STEVENS, SECRETARY & TREASURER

# CONTRACT 86.3

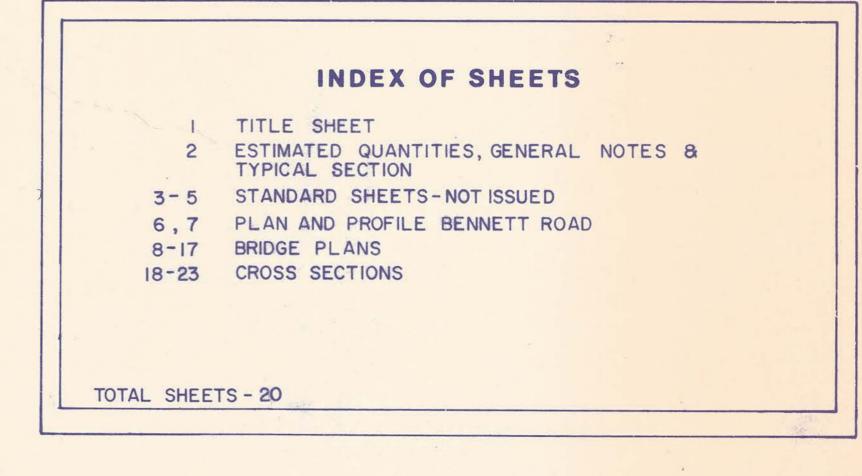
BENNETT ROAD BRIDGE REPLACEMENT

NEW GLOUCESTER

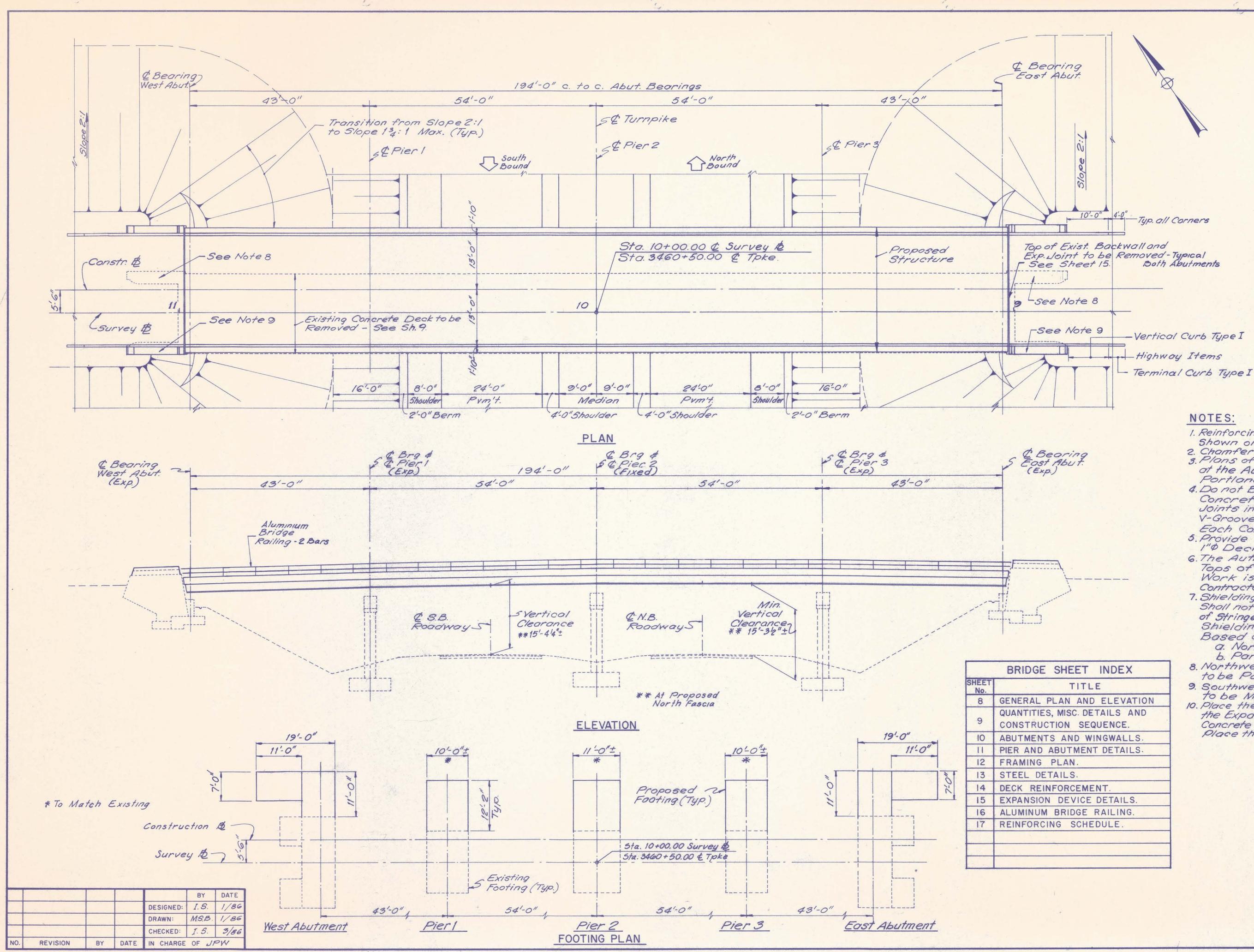
HOWARD, NEEDLES, TAMMEN & BERGENDOFF ENGINEERS · ARCHITECTS · PLANNERS

BOSTON





APFROVED:	*		×	
	MAINE	TURNPIKE	AUTHORITY	
	-		CHAIRMAN	
	1		EXECUTIVE	DIRECTOR
DATE				



# DESIGN

AASHTO Standard Specifications For Highway Bridges 1983 with All Interims.

# CONTRACT

State of Maine, Department of Transportation, Standard Specifications, Highways & Bridges, Revision of January 1984.

LIVE LOAD H15

# MATERIALS

CONCRETE All Concrete Shall be Class A fc= 1,200 P.S.I. n=9

REINFORCING STEEL ASTM A615 Grade 60 f = 24,000 P.S.I.

STRUCTURAL STEEL ASTM A36 f = 20,000 P.S.I.

HIGH STRENGTH BOLTS ASTM A325

- 1. Reinforcing Steel to Have a Clear Cover as
- Shown on the Plans. 2. Chamfer oll Exposed Edges I". 3. Plans of Existing Bridges are Available at the Authority's Office at 430 Riverside St. Portland, Maine.
- 4. Do not Break the Bond Between the Concrete Surfaces of Vertical Construction Joints in Superstructure Slab. Form a 1" V-Groove on the Outside Faces of Slab at Each Construction Joint. See Note "A" Sh,14.
- 5. Provide 23 Gauge Galvanized Screen Over 1" Deck Drains, 18" Mesh.
- 6. The Authority's Personel Will Profile the Tops of All Stringers Before the Form Work is Started and Supply the
- Contractor With Final Bottom of Slab Elevation. 7. Shielding Required During Concrete Removal Sholl not Project Below the Bottom Flanges of Stringers. The Estimated Quantity of Shielding is the Minimum Required and is Based on the Following Limits:
- a. Normal to & Bridge: as Shown on Plans b. Parallel to & Bridge: Pier 1 to Pier 3. 8. Northwest & Northeast Existing Wingwalls to be Partially Removed - See Sheet 10.
- 9. Southwest & Southeast Existing Wingwalls to be Modified-See Sheet 10.
- 10. Place the Concrete in Ponels "A" and "B" Before the Expansion Device is Installed. Place the Concrete in Panels A Before Placing in Panels B. Place the Concrete in Ponels C Last.

# MAINE TURNPIKE AUTHORITY MAINE TURNPIKE

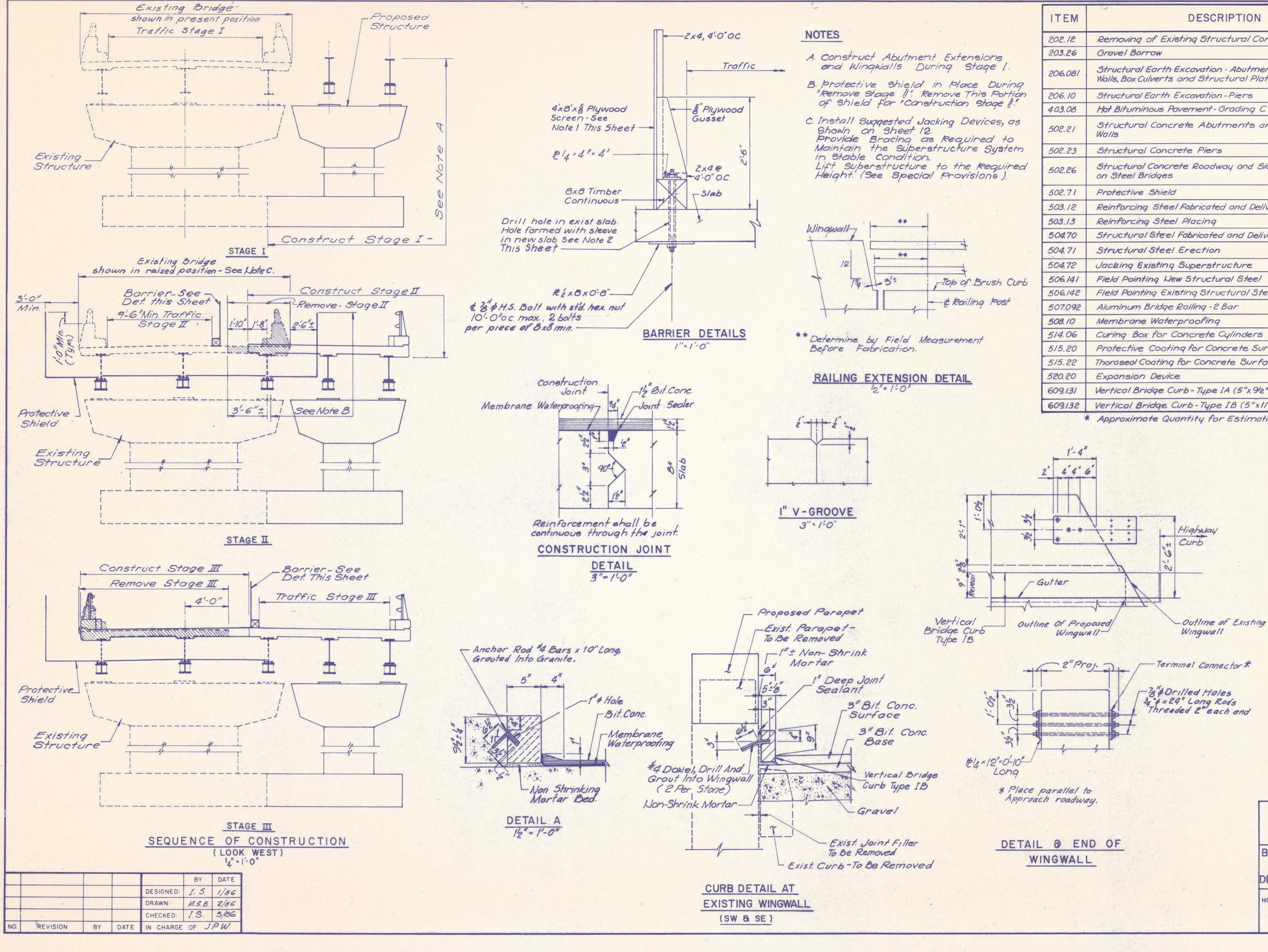
BENNETT ROAD BRIDGE REPLACEMENT GENERAL PLAN AND ELEVATION.

HOWARD, NEEDLES, TAMMEN & BERGENDOFF

ARCHITECTS ENGINEERS PLANNERS

SHEET NO. 8 OF 23

BOSTON



-		de la constance	
EM	DESCRIPTION	QUAN.	UNIT
12	Removing of Existing Structural Concrete	445	S.Y.
26	Gravel Borrow	25	C. Y.
081	Structural Earth Excavation - Abutments, Retaining Walls, Box Culverts and Structural Plate Units	100	С. Ү.
10	Structural Earth Excavation - Piers	170	C.Y.
08	Hot Bituminous Pavement-Grading C	50	Ton
21	Structural Concrete Abutments and Retaining Walls	70	C. Y.
23	Structural Concrete Piers	80	C. Y.
26	Structural Concrete Roadway and Sidewalk Slabs on Steel Bridges (175 C.Y.)*	1	L <u>S</u> .
71	Protective Shield	300	5.Y.
12	Reinforcing Steel Fabricated and Delivered	62,000	Lb.
13	Reinforcing Steel Placing	62,000	L b.
70	Structural Steel Fabricated and Delivered (50,000 Lbs)*	1	LS.
71	Structural Steel Erection (50,000 Lbs)*	1	L 5.
72	Jacking Existing Superstructure	1	LS.
141	Field Painting New Structural Steel (25 Tons)*	1	LS.
142	Field Painting Existing Structural Steel (35.3 Tons)*	1	LS.
092	Aluminum Bridge Roiling - 2 Bar	400	L.F.
10	Membrane Waterproofing	570	S. Y.
06	Curing Box for Concrete Cylinders	1	Each
20	Protective Coating for Concrete Surfaces	190	S. Y.
22	Thoroseal Coating for Concrete Surfaces	550	S. F.
20	Expansion Device	1	L.S.
131	Vertical Bridge Curb-Type IA (5"x 912")	400	L. F.
132	Vertical Bridge Curb-Type IB (5"x11")	70	L.F.

\* Approximate Quantity for Estimating only.

# NOTES

1. The entire Traffic side face of the plywood screen shall be painted with yellow Traffic paint.

2. Holes in new slab shall be filled with mortar after barrier is removed and before membrane waterproofing is applied.

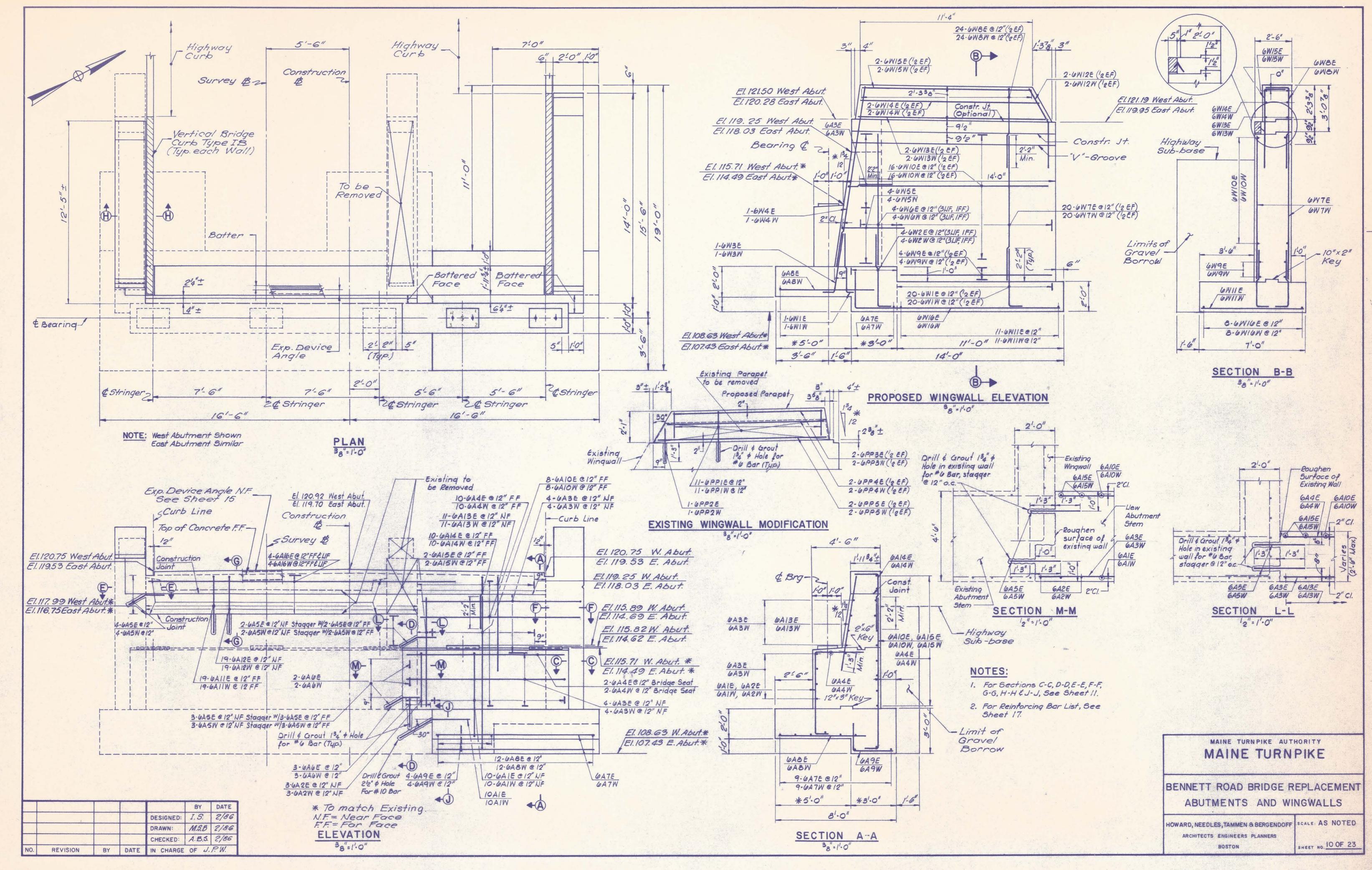
3. Refer to Part 2; Special Provisions, Article 14, for alternate method of sequence of construction.

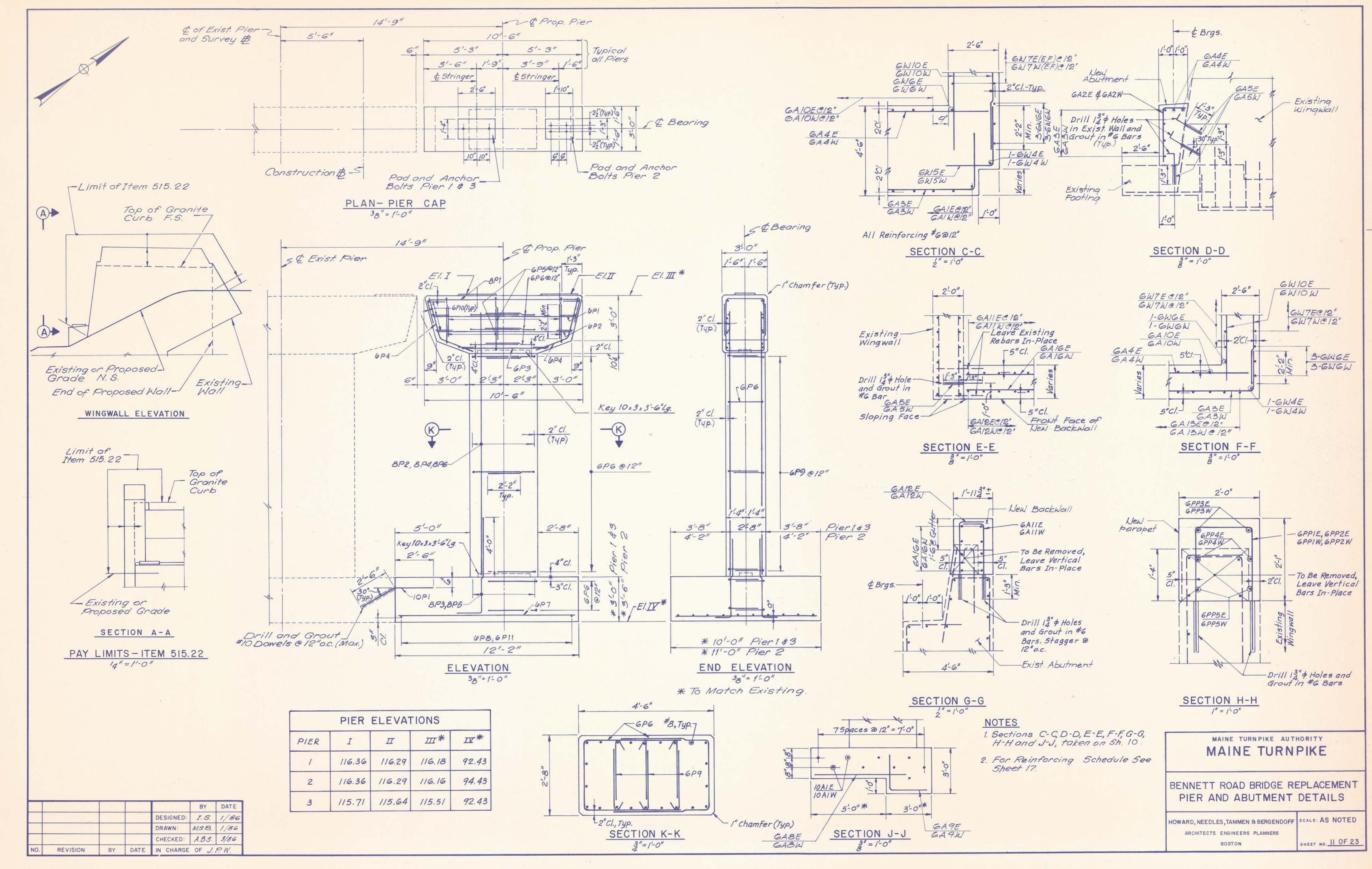
# MAINE TURNPIKE AUTHORITY MAINE TURNPIKE

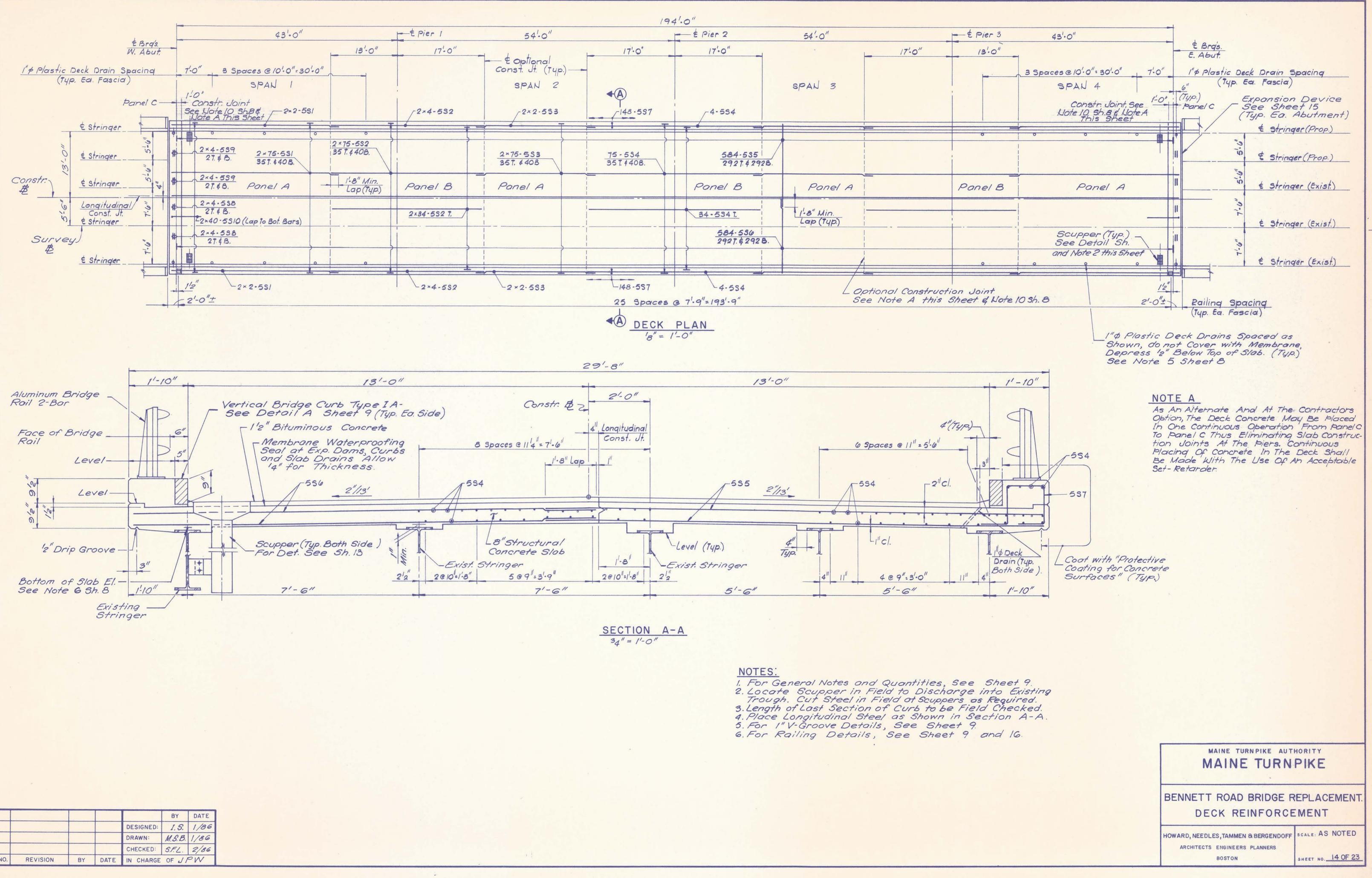
BENNETT ROAD BRIDGE REPLACEMENT QUANTITIES, MISC. DETAILS AND CONSTRUCTION SEQUENCE

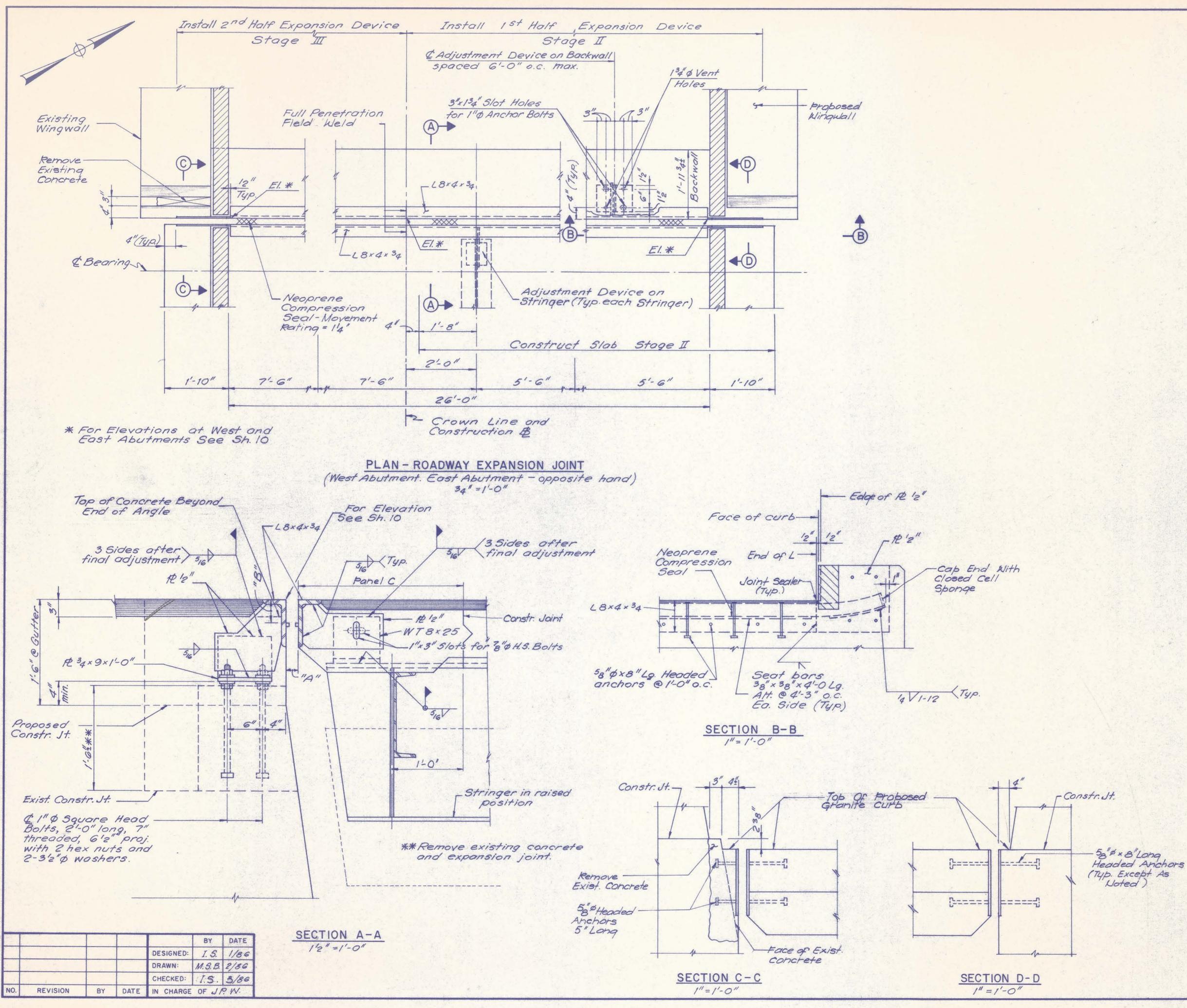
HOWARD, NEEDLES, TAMMEN & BERGENDOFF SCALE AS NOTED ARCHITECTS ENGINEERS PLANNERS BOSTON

SHEET NO. 9 OF 23









# NOTES:

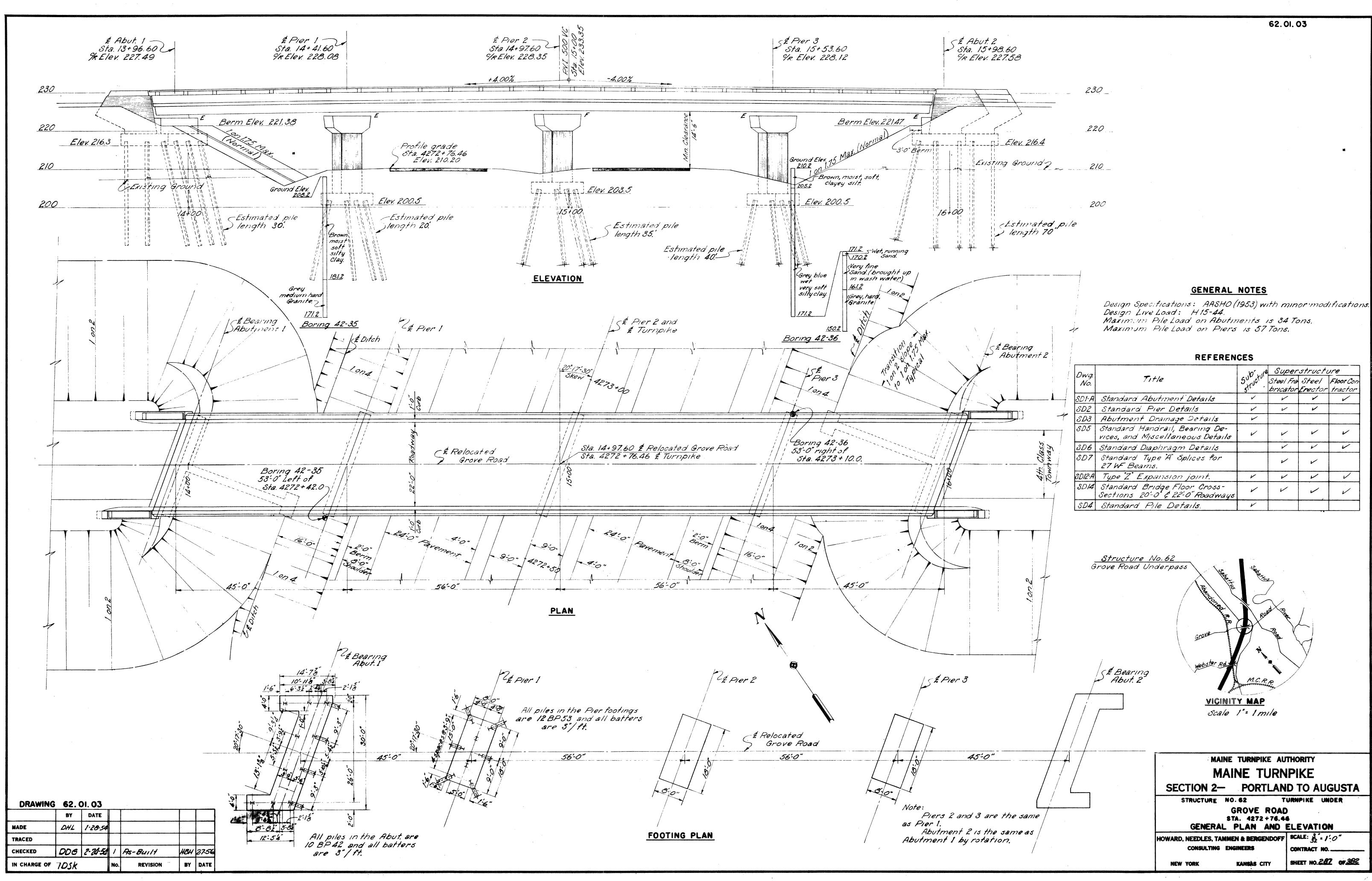
- 1. Shop Drawings Shall Be Submitted For Expansion Device.
- 2. Expansion Device Assembly Shall Be Secured To The Stringer And/Or Anchor Bolts When The Ambient Temperature is Between 40°F And 80°F. Setting Schedule For Dim. A Shall be supplied By The Manufacturer Of The Seal.
- 3 Neobrene Compression Seal To Be Installed In One Piece ..
- 4. Dimension "B" Shall Be Set Equal To Compressed Seal Height Plus 38".
- 5. Uncompressed Seal Height Shall Be Equal To Or Greater Than Uncompressed Width of The Seal.
- 6. Roadway Surface Of The Armored Devices To Be Painted in The Field.
- 7. The Fabricators Attention Is Directed To The Necessita Of Fabricating And Installing the Device in Two Sections.
- 8 Welds In Contact With Compression Seal To Be Ground smooth.
- 9. Provide 1" Vent Holes In Horizontal Leg Of 8×4 Angle At 3-0" o.c. Max.



# MAINE TURNPIKE AUTHORITY MAINE TURNPIKE

BENNETT ROAD BRIDGE REPLACEMENT EXPANSION DEVICE DETAILS

HOWARD, NEEDLES, TAMMEN & BERGENDOFF SCALE AS NOTED ARCHITECTS ENGINEERS PLANNERS SHEET NO. 15 OF 23 BOSTON

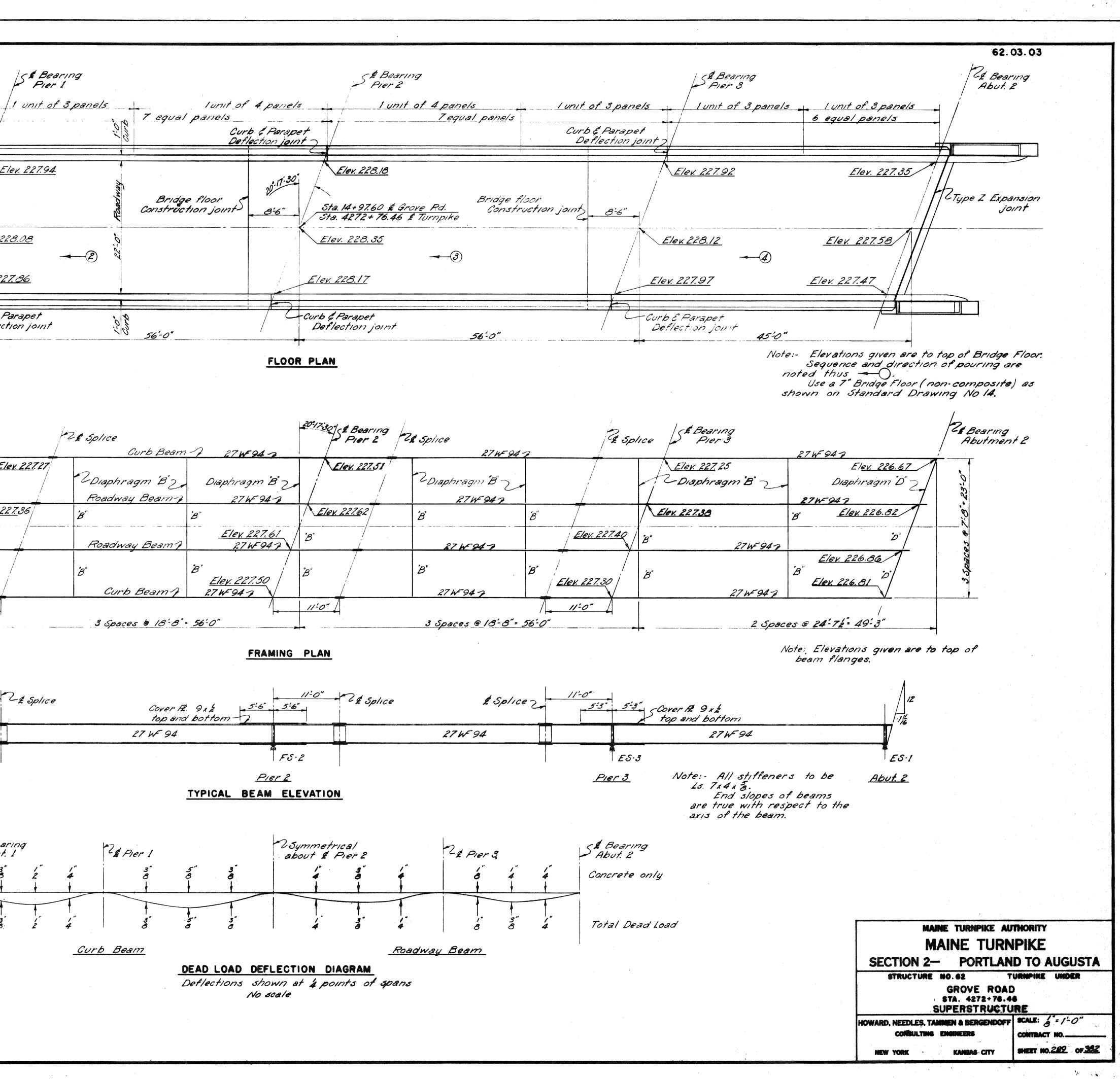


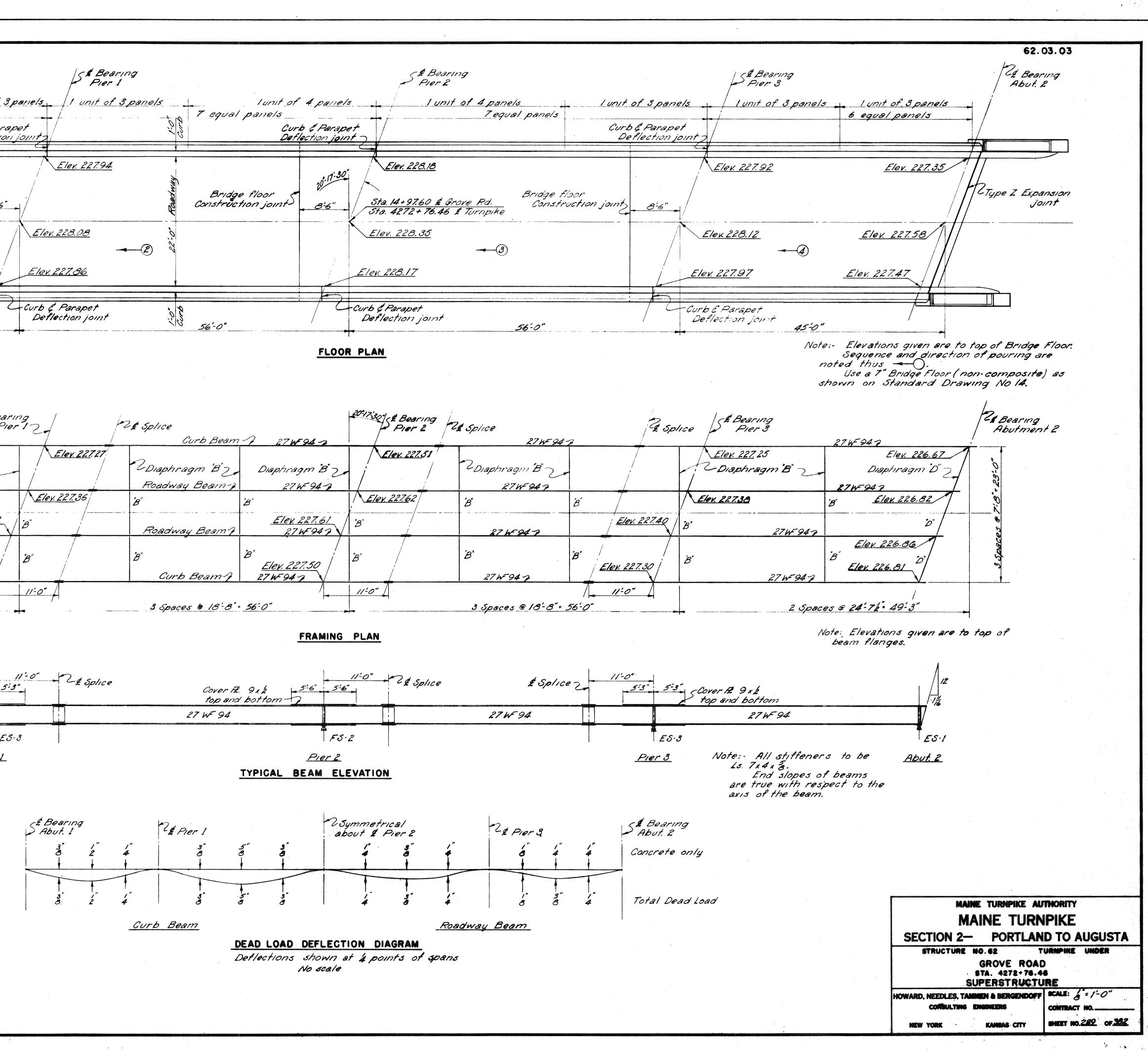
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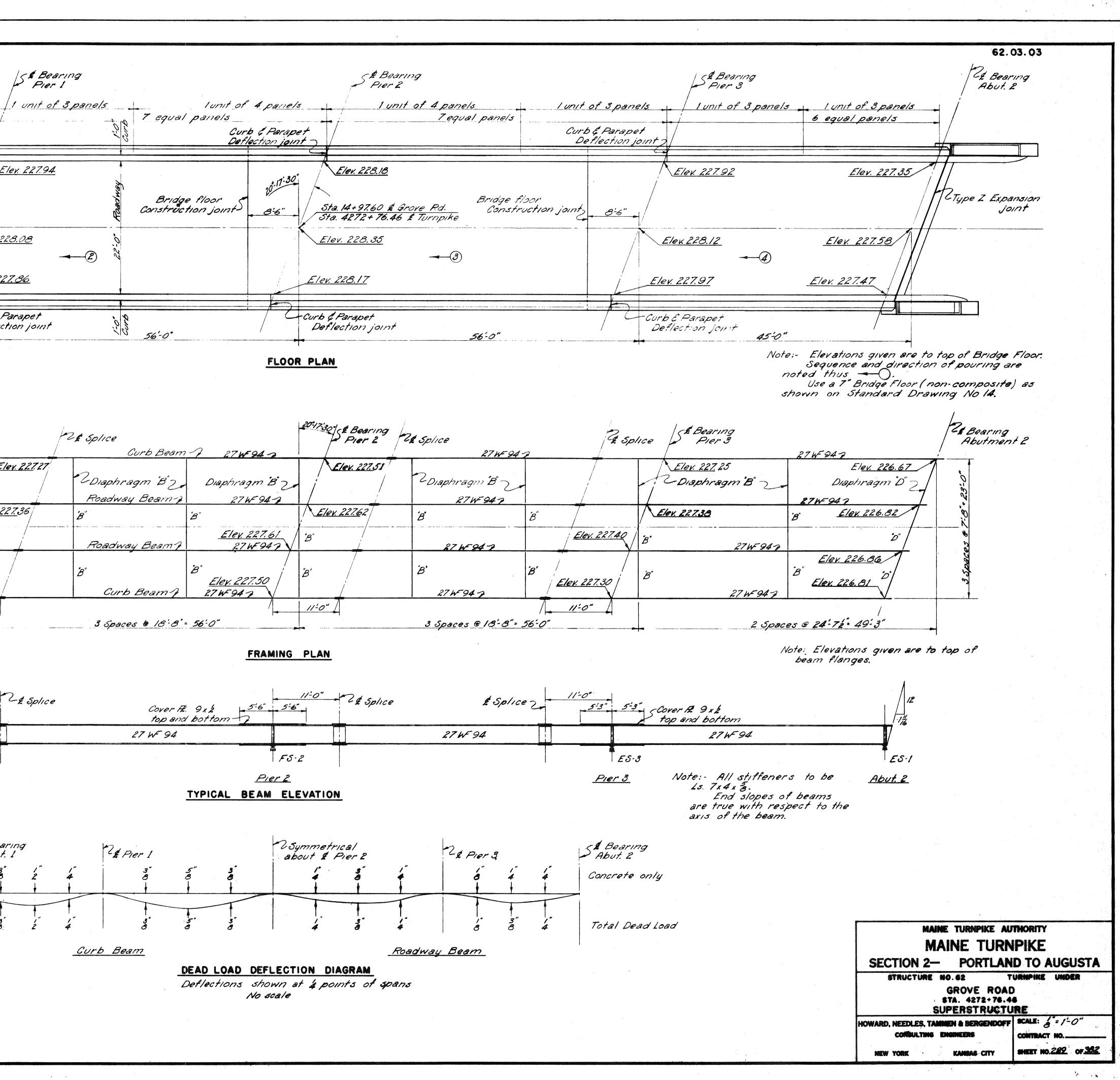
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Dwg.		10 ure	Super	structu	ire
No.	Title	Sub-ture structure	Steel Fra bricator	Steel Erector	Floor Con- tractor
SDI·A	Standard Abutiment Details	~	V	~	~
SD2	Standard Pier Details	V	V	~	
SD3	Abutment Drainage Details	~			
SD5	Standard Handrail, Bearing De- vices, and Miscellaneous Details	· ~	۲	~	~
SD6	Standard Diaphragm Details		~	V	~
SD7	Standard Type A Splices for 27 W Bearns.		V	~	
SDI2-A	Type Z' Expansion joint.	r	V	~	V
SD14	Standard Bridge Floor Cross- Sections 20'-0" & 22'-0" Roadways	~	V	~	V
SD4	Standard Pile Details.	V			

& Bearing Abut 1 -1 handrall unit of 3 panels I handrail unit of 3 panels 6 equal panels Curb & Parapet Deflection joint? Elev. 227.39 Bridge floor Construction joint 5 & Relocated 8-6 Grove Road? Elev. 227.49 Type Z' Expansion joint -Elev. 227.26 Curb & Parapet 15'0" & Bearing Pier 1 E Bearing Abutment 1 27WF94-7 Elev. 226.72 *Claphragm* D - Diaphragm 'B' 🦳 27WF94-7 £ Relocated Elev. 226.79 s ... Grove Road 7 Elev. 227.33 D<u>Elev. 226.</u>73 27 # 94 7 R Elev. 226.58 <u>Elev. 227.19</u> 27 WF 94 P 11:0" A 2 Spaces @ 24- 72 = 49-3" 12 Cover R 9x2 5'3" 5'3" top and bottom 27 WF 94 ES-1 E5-3 Abut. 1 Pier 1 S Abut. 1 DRAWING 62.03.03 BY DATE DHL 1-22-54 MADE TRACED HBH 2756 DD6 8-24-54 1 As- Built CHECKED " - opt BY DATE IN CHARGE OF IDSK REVISION 10-2 ALMANIENE TRANS







## SPECIFICATIONS

## DESIGN

AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES 1992 AND INTERIM SPECIFICATIONS 1994.

## CONTRACT

STATE OF MAINE, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS, HIGHWAY AND BRIDGES, REVISION OF OCTOBER 1990.

DESIGN LOADING

LIVE LOAD H20, 500,000 CYCLES

DESIGN. METHOD LOAD FACTOR (SUPERSTRUCTURE ONLY)

## MATERIALS

### CONCRETE

SUPERSTRUCTURE SLAB CONCRETE SHALL BE CLASS AAA, f'c = 4,500 P.S.I.

ALL OTHER CONCRETE SHALL BE CLASS A, f'c = 4000 P.S.I.

## REINFORCING STEEL

TUD 000000 00 00000 00 1 00 /16 /05 00000 /14

ASTM 615 GRADE 60, (ALL BARS EPOXY-COATED)

### STRUCTURAL STEEL

EXISTING STRUCTURAL STEEL IS ASTM A7, GRADE 33

## GENERAL NOTES

- 1. PLANS OF EXISTING BRIDGES ARE AVAILABLE AT THE AUTHORITY'S OFFICE AT 430 RIVERSIDE ST., PORTLAND, MAINE.
- 2. SHIELDING REQUIRED DURING CONCRETE REMOVAL SHALL NOT PROJECT BELOW THE BOTTOM FLANGES OF STRINGERS. THE ESTIMATED QUANTITY OF SHIELDING IS THE MINIMUM REQUIRED AND IS BASED ON THE FOLLOWING LIMITS:
  - A. NORMAL TO & BRIDGE: AS SHOWN ON THE PLANS B. PARALLEL TO & BRIDGE: ABUTMENT TO ABUTMENT
- 3. THE AUTHORITY'S PERSONNEL WILL PROFILE THE TOPS OF ALL STRINGERS BEFORE THE FORM WORK IS STARTED AND SUPPLY THE CONTRACTOR WITH FINAL BOTTOM OF SLAB ELEVATIONS.
- 4. REINFORCING STEEL SHALL HAVE A CLEAR COVER OF 2" UNLESS OTHERWISE NOTED.
- 5. ALL STEEL REINFORCING SHALL BE EPOXY COATED. FOR STEEL REINFORCING SCHEDULE, SEE SHEET GR-17.
- 6. THE CONCRETE DECK SURFACE SHALL BE GIVEN A SMOOTH BULL FLOAT OR WOOD FLOAT FINISH.
- 7. CHAMFER ALL EXPOSED CONCRETE EDGES 3", UNLESS OTHERWISE NOTED.
- 8. THE BEARING DIMENSIONS SHOWN ON THE BEARING DETAIL SHEET AND THE CORRESPONDING BRIDGE SEAT ELEVATIONS SHOWN ON THE ABUTMENT AND PIER SHEETS ARE BASED ON POT BEARINGS MANUFACTURED BY SAI/SPENSER OF TERRYVILLE CT. IF THE CONTRACTOR SELECTS A BEARING FROM ANOTHER APPROVED BEARING MANUFACTURER, AFFECTED DETAILS AND ELEVATIONS SHALL BE ADJUSTED TO ACCOMMODATE THE SELECTED BEARINGS.

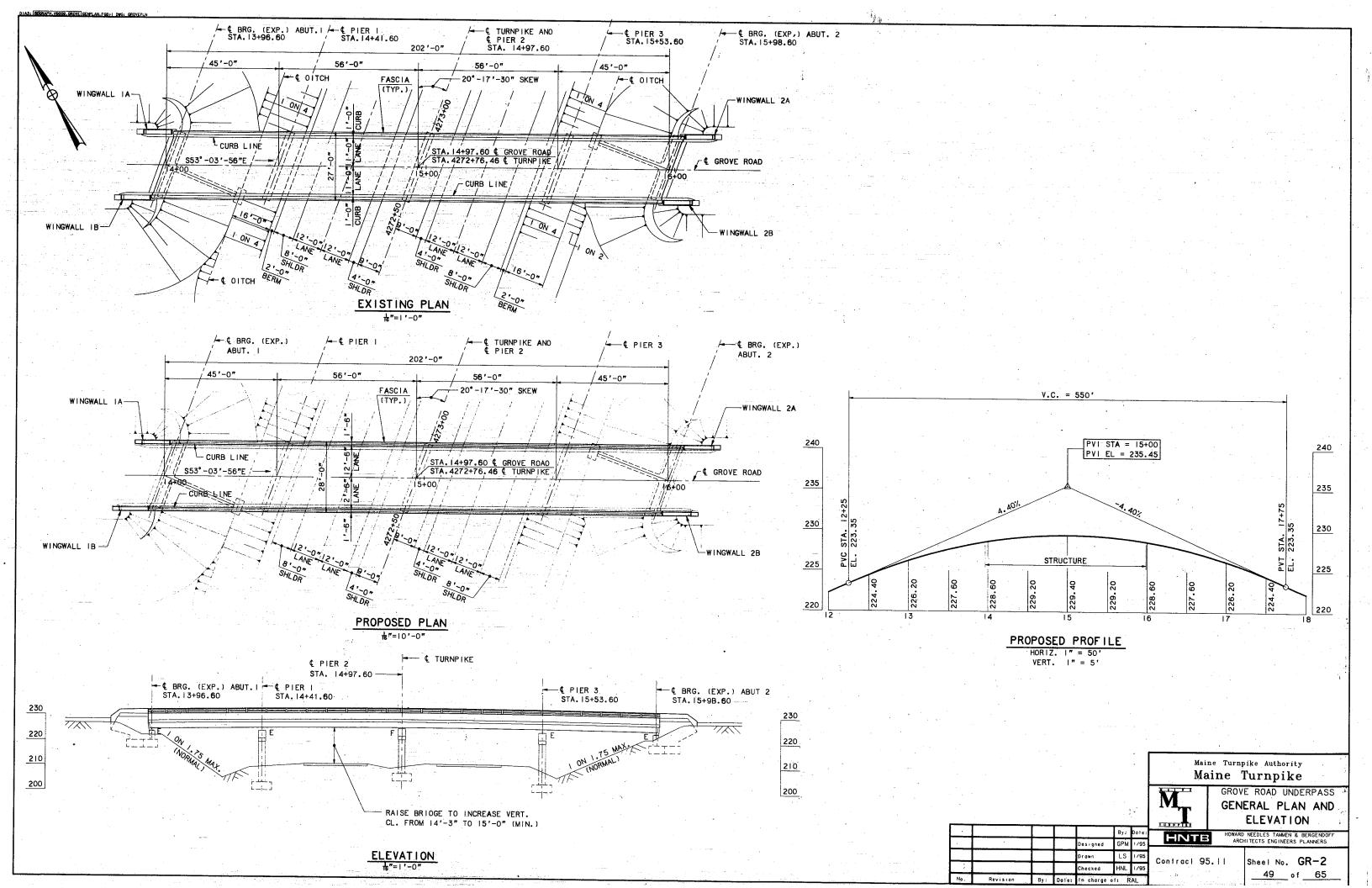
ITEM	DESCRIPTION	UNIT	QUANTITIES
202.12	REMOVING EXISTING STRUCTURAL CONCRETE	C.Y.	· 25
202.12	REMOVING EXISTING STRUCTURAL CONCRETE	S.Y.	615
202.122	REMOVING EXISTING SUPERSTRUCTURE CUNCRETE	3.1.	015
203.20	COMMON EXCAVATION	C.Y.	15
203.25	GRANULAR BORROW	C.Y.	15
LUGILU			
403.13	DENSE GRADED BITUMINOUS PAVEMENT FOR BRIDGES	TON	55
		+	
502.21	STRUCTURAL CONCRETE, ABUTMENTS AND RETAINING WALLS	C.Y.	30
502.231	STRUCTURAL CONCRETE PIERS-GROVE ROAD	C.Y.	
502.262	STRUCTURAL CONCRETE ROADWAY AND PARAPETS ON		
1.1	STEEL BRIDGES-GROVE ROAD	L.S.	1
		1	
503.14	EPOXY-COATED REINFORCING STEEL, FABRICATED AND DELIVERED	LB.	54,000
503.15	EPOXY-COATED REINFORCING STEEL, PLACING	LB.	54,000
		•	
504.721	JACKING EXISTING SUPERSTRUCTURE-GROVE ROAD	L.S.	1
	STUD WELDED SHEAR CONNECTORS-GROVE ROAD	L.S.	1
	ALUMINUM BRIDGE RAILING, 2 BAR	L.F.	414
508.132	MEMBRANE WATERPROOFING-GROVE ROAD	L.S.	1
514.06	CURING BOX FOR CONCRETE CYLINDERS	EA.	1
515.20	PROTECTIVE COATING FOR CONCRETE SURFACE	S.Y.	380
515.201	PIGMENTED CONCRETE PROTECTIVE COATING	S.Y.	460
520.21	EXPANSION DEVICE - GLAND SEAL	EA.	2
	POT BEARINGS	EA.	20
524.40	PROTECTIVE SHIELD	S.Y.	740
		-	
–	TEMPORARY STEEL GUARDRAIL	L.F.	230
609.15	SLOPED CURB TYPE 1	L.F.	466

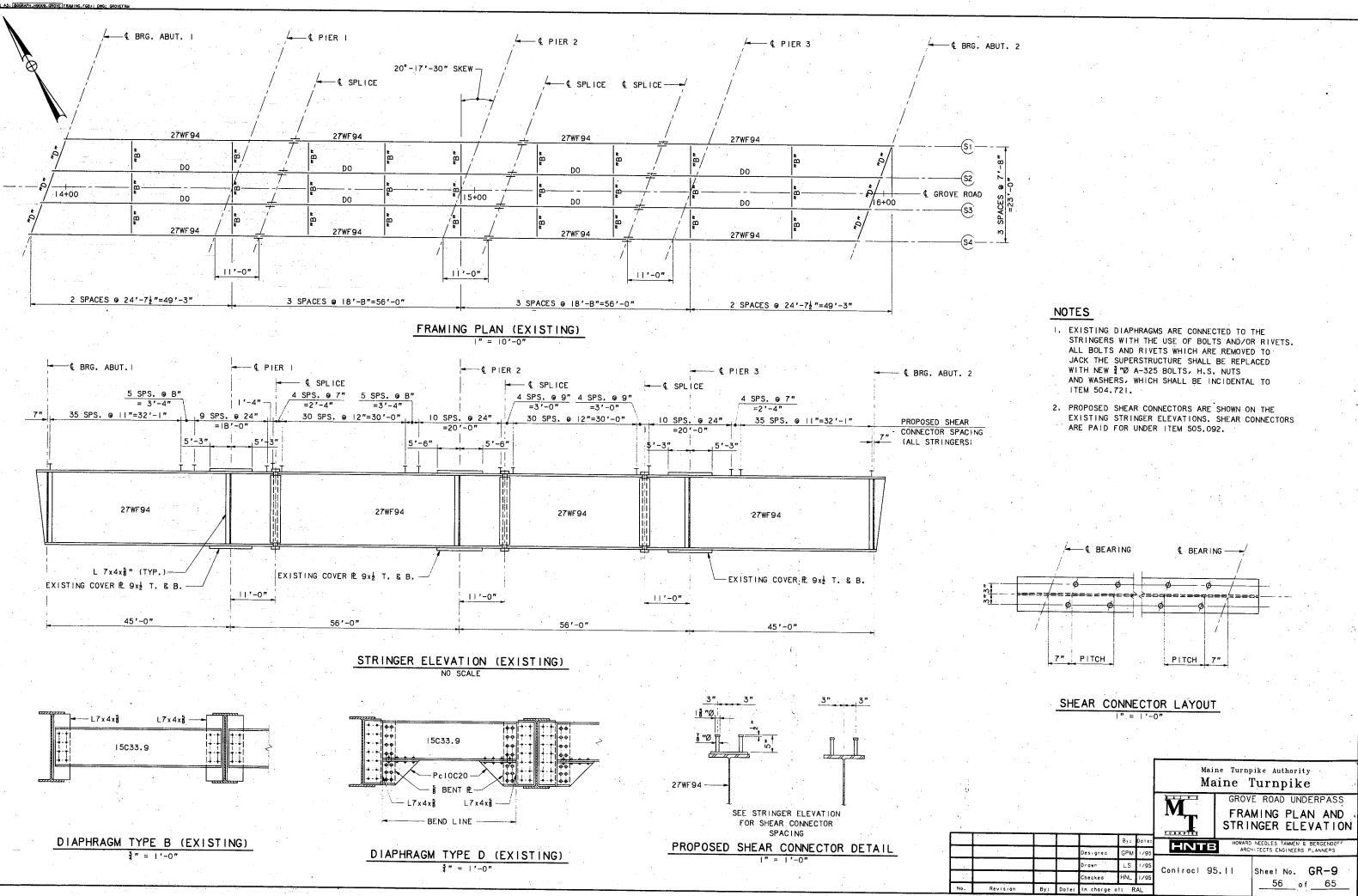
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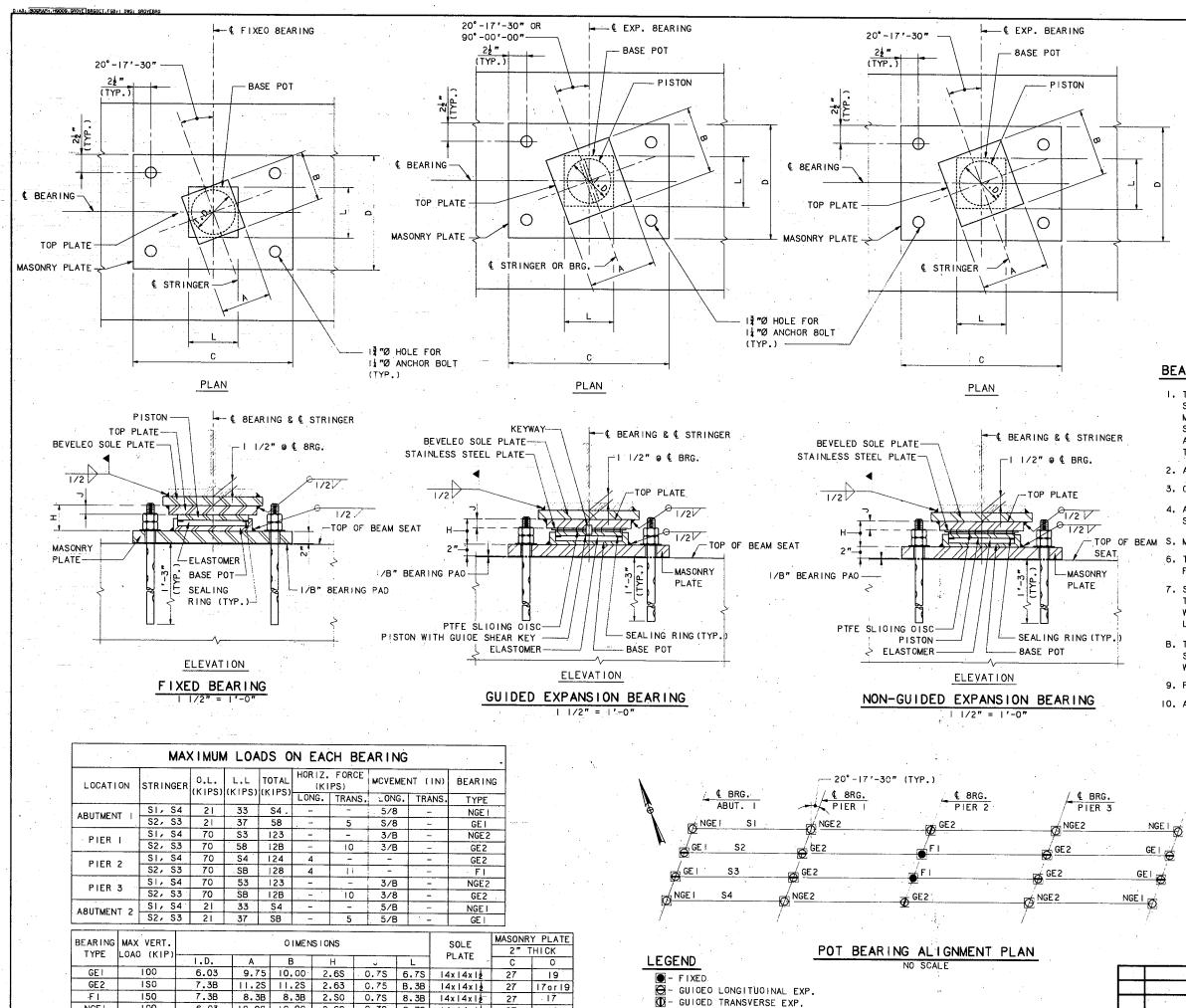
	INDEX OF DRAWINGS
SHEET NO.	ΤΠLΕ
GR-1	SPECIFICATIONS, GENERAL NOTES AND QUANTITIES
GR-2	GENERAL PLAN AND ELEVATION
GR-3	SEQUENCE OF CONSTRUCTION
GR⊶4	ABUTMENT 1 MODIFICATIONS
GR-5	ABUTMENT 2 MODIFICATIONS
GR-6	WINGWALL MODIFICATIONS I
GR-7	WINGWALL MODIFICATIONS II
GR8	PIER MODIFICATIONS
GR-9	FRAMING PLAN AND STRINGER ELEVATION
GR-10	POT BEARING DETAILS
GR-11	DECK PLAN AND TYPICAL SECTION
GR-12	SLAB DETAILS I •
GR-13	SLAB DETAILS II
GR-14	EXPANSION JOINT DETAILS I
GR-15	EXPANSION JOINT DETAILS II
GR-16	ALUMINUM BRIDGE RAIL DETAILS
GR-17	REINFORCING SCHEDULE

	STANDARD DETAIL SHEETS
SHEET NO.	TITLE
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	Ву	Date	in Charge	01. F	ZAL				40	of 0.	<u>,</u>







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O - NON - GUIDED EXPANSION

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6.03 10.00 10.00 2.6S 0.7S 6.7S 14x14x12 100 150 7.38 |1.25 |1.25 2.63 0.75 8.38 |4x|4x|2 27

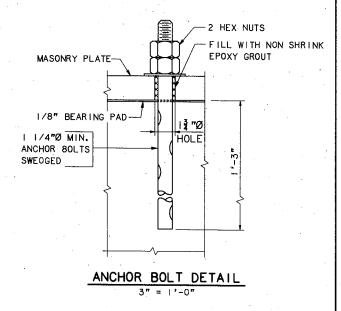
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NGE I

NGE 2

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## BEARING DEVICE NOTES

I. THE BEARING OIMENSIONS SHOWN ON THIS SHEET AND THE CORRESPONDING BRIDGE SEAT ELEVATIONS ARE 8ASED ON GUIDED EXPANSION & FIXED BEARINGS MANUFACTURED BY SAI/SPENCER OF TERRYVILLE CT. IF THE CONTRACTOR SELECTS A 8EARING FROM ANOTHER APPROVED BEARING MANUFACTURER, AFFECTED DETAILS AND ELEVATIONS SHALL BE ADJUSTED TO ACCOMMODATE THE SELECTED BEARINGS.

2. ALL DIMENSIONS ARE IN INCHES.

3. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL.

4. ALL STEEL FOR THE 8EARING DEVICES ASSEMBLIES SHALL BE ASTM A709, GRAOE 36, UNLESS NOTED OTHERWISE.

TOP OF BEAM S. MASONRY BASE PLATES SHALL 8E PLACEO ON 1/B" PREFORMED FABRIC PAD.

6. TOP PLATES AND PISTONS SHALL HAVE MACHINEO SURFACES TO FINISH ANSI 125.

7. STAINLESS STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 167, TYPE 317 OR ASTM A 240, TYPE 317. STAINLESS STEEL IN CONTACT WITH PTFE SHEET SHALL BE POLISHED TO A BRIGHT MIRROR FINISH (NO. 8), LESS THAN 5 MICRO-INCHES ROOT MEAN SQUARE.

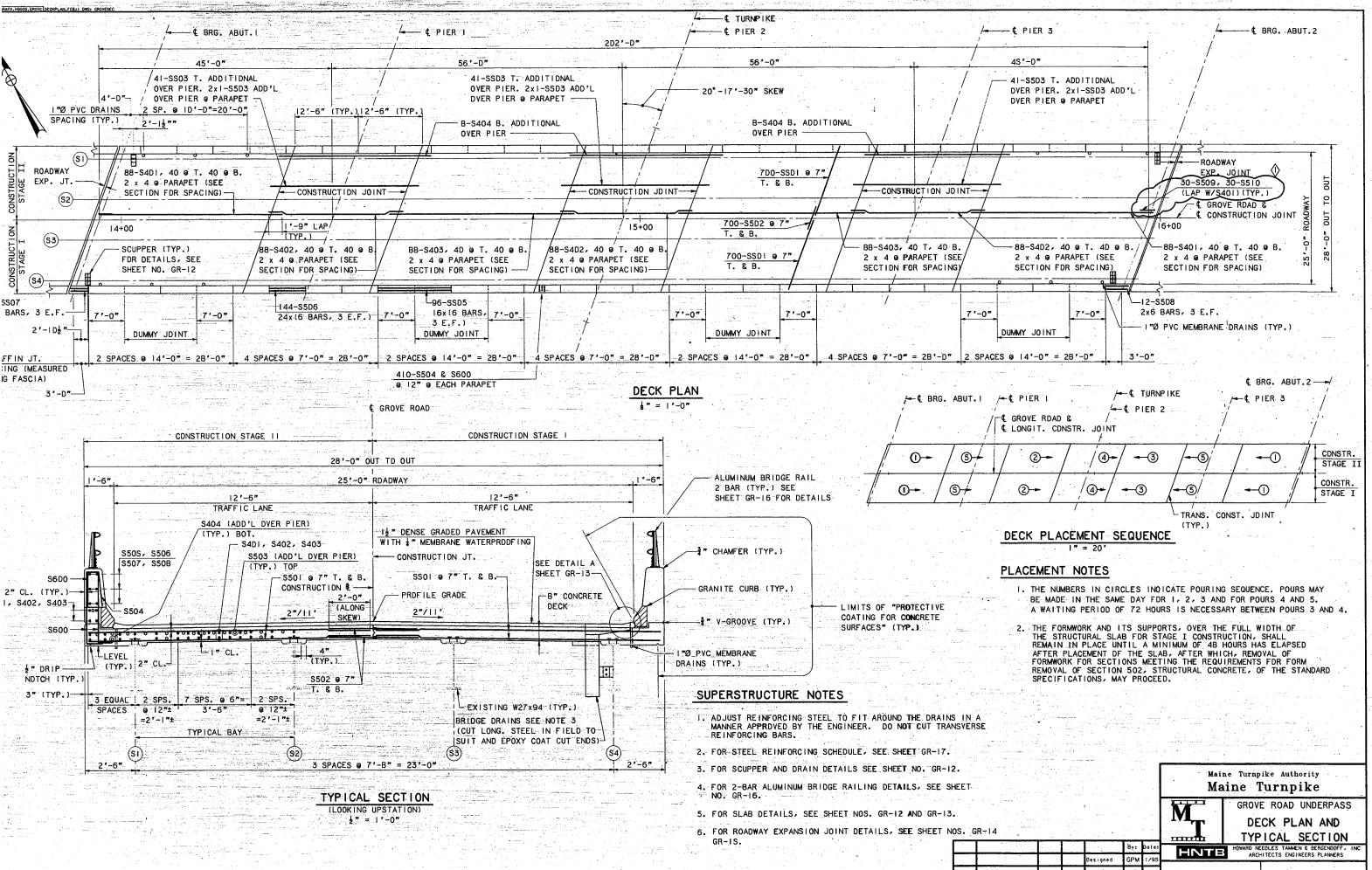
B. THE 14 70 ANCHOR BOLTS AND NUTS SHALL BE A307. WASHERS SHALL CONFORM TO REQUIREMENTS OF AASHTO M293 (ASTM F4361). WASHERS AND NUTS SHALL BE GALVANIZED.

9. PTFE INDICATES POLYTETRAFLUORETHYLENE.

10. ANCHOR BOLT SPACING SHALL BE COORDINATED WITH THE SEARING MANUFACTURER.

/ 🕻 8RG. ABUT. 2

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		-				M		2	DERPASS
	<u> </u>		Designed	<u> </u>	Date: i/95	HNTE		NEEDLES TAMMEN	
			Drown	LS	1/95	Contract 9	5.11	Sheel No.	GR-10
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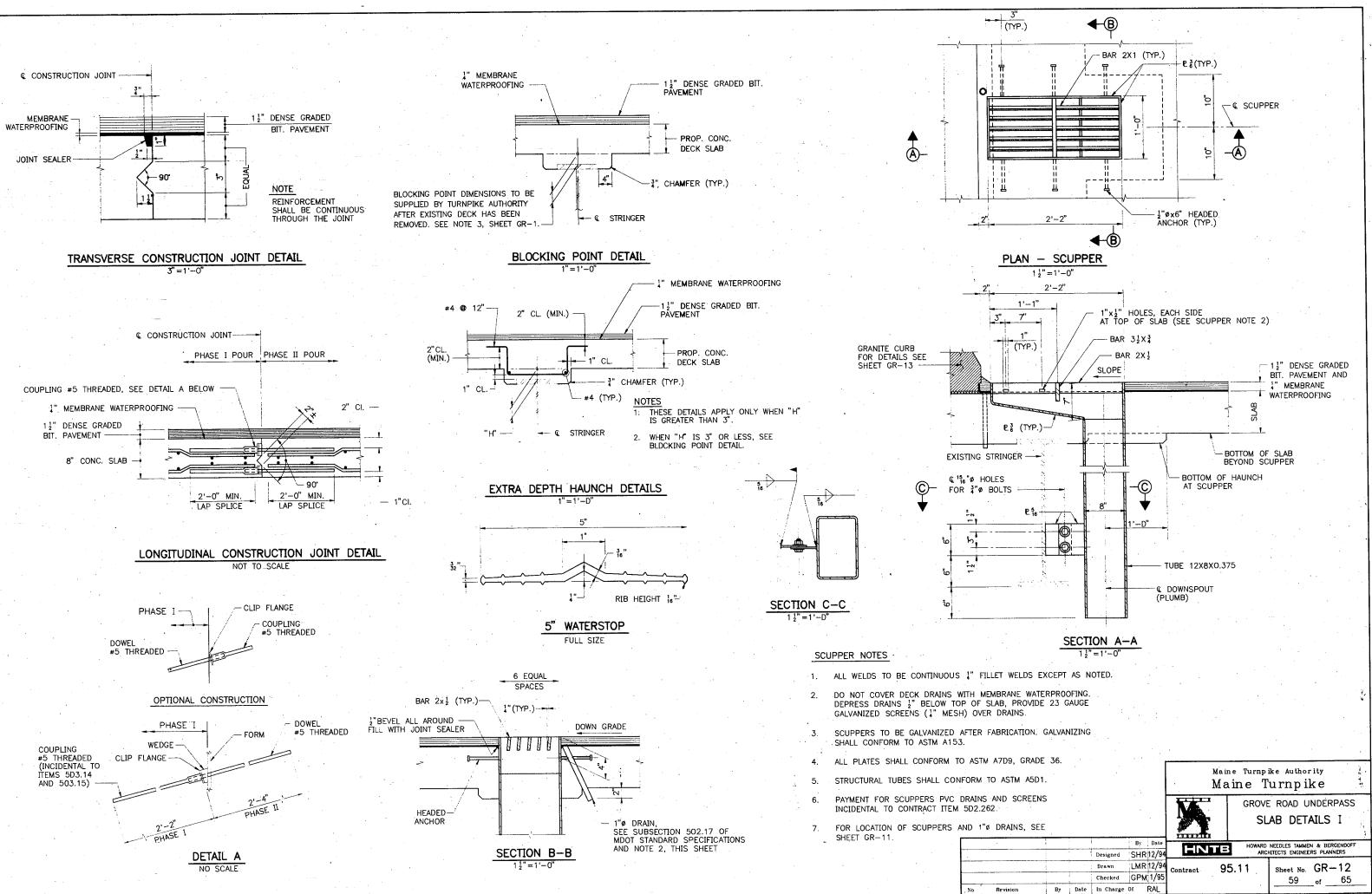


DECK REINF.

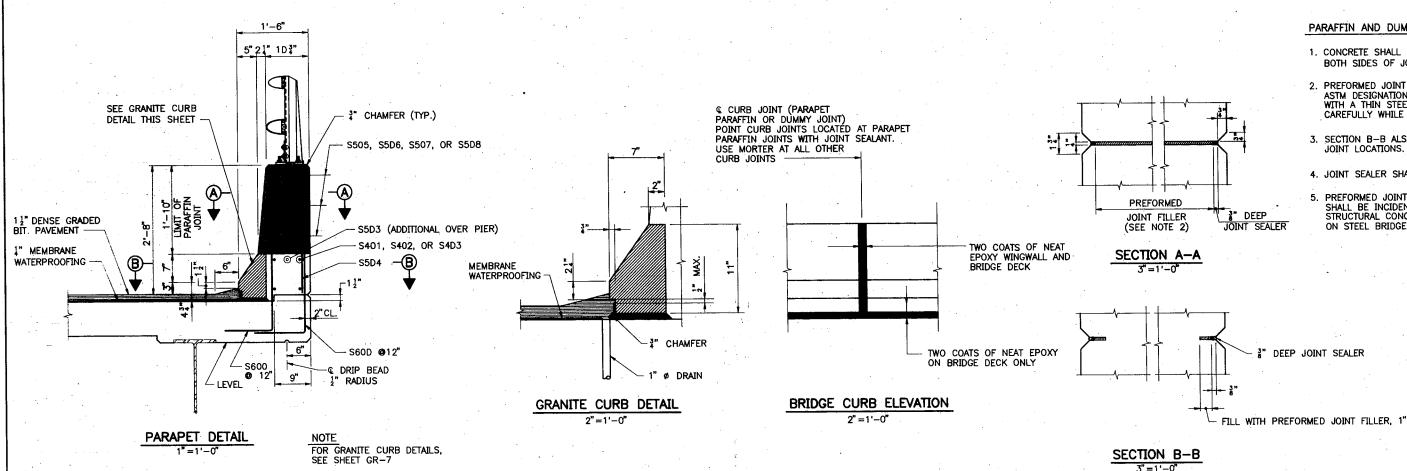
Revision

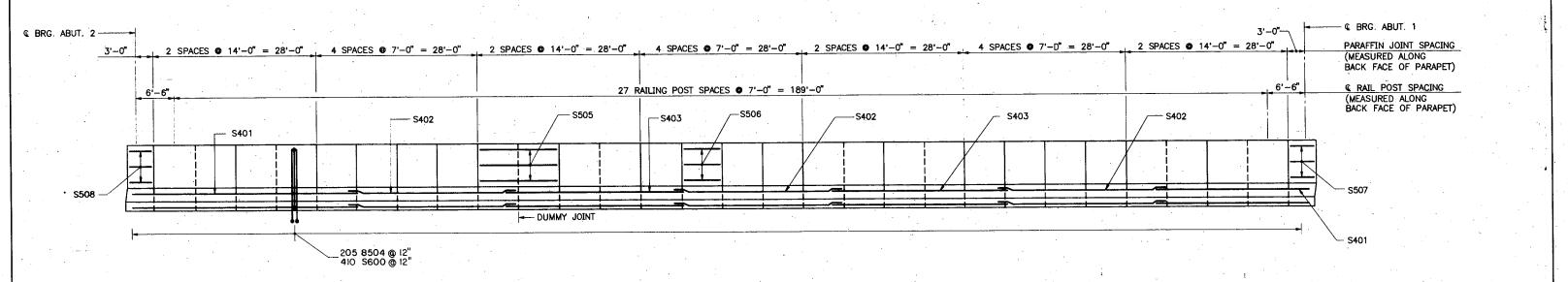
GPN

i.		میں اور						
					Maine Turnpike Authority Maine Turnpike			
					MT	GROVE ROAD UNDERPASS DECK PLAN AND TYPICAL SECTION		
_	By: Dale:		HNITE HOWARD NEEDLES TAMMEN & BERGENDOFF, INC. ARCHITECTS ENGINEERS PLANNERS					
		Designed	GPM	1/95				
		Drawn	LS	1/95	Contract 95	5.11 Sheel No. GR-11		
٨.	4/14/95	Checked	HNL	1/95		58 of 65		
	Dale;	In charge	ofs R	AL				



. NO REVISION





PARAPET ELEVATION (LOOKING SOUTH) HORZ.  $\frac{1}{8}$  = 1' - 0" VERT. 2 =1'-0'

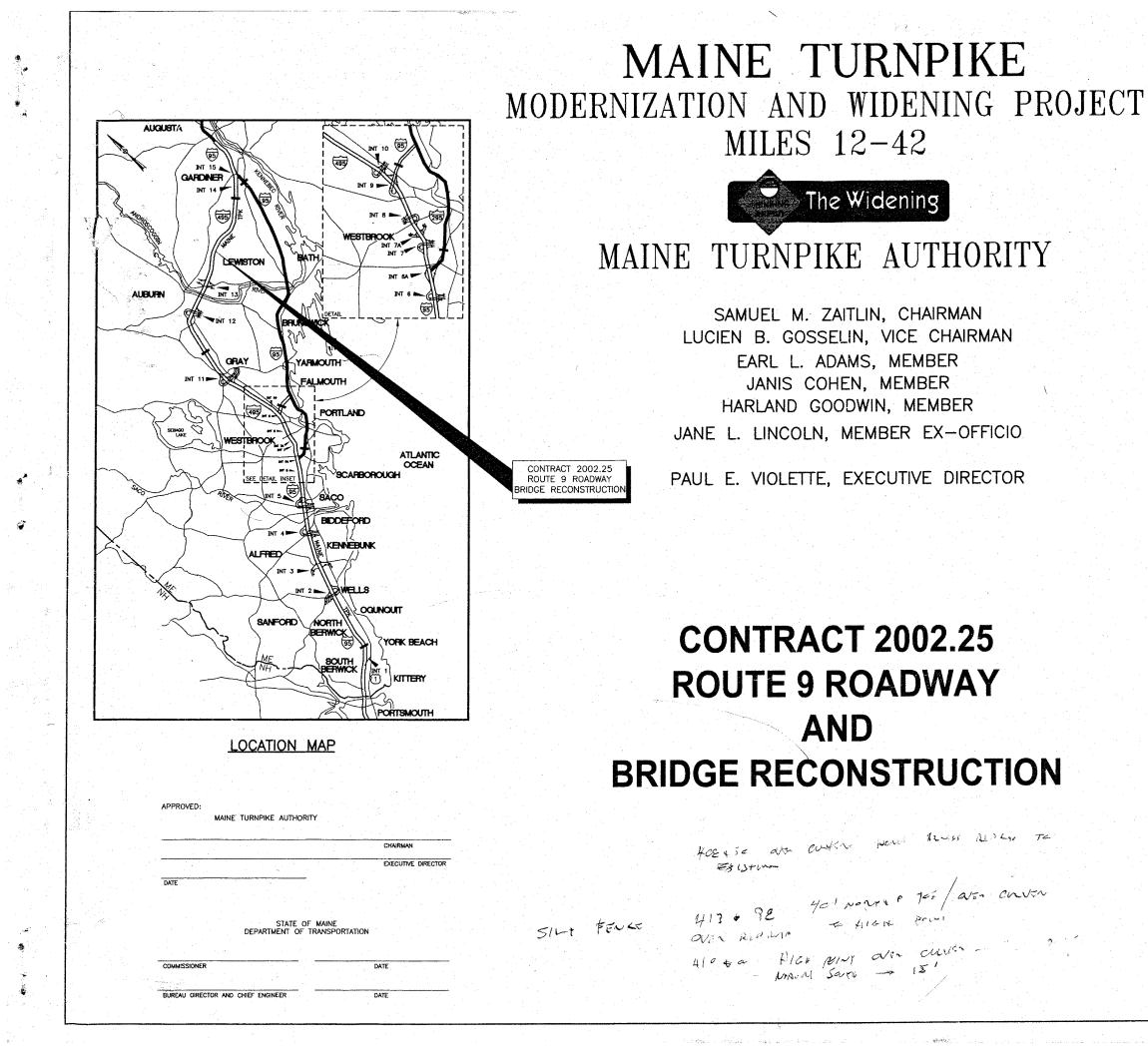
PARAFFIN AND DUMMY JOINT NOTES

- 1. CONCRETE SHALL BE PLACED SIMULTANEOUSLY ON BOTH SIDES OF JOINT.
- 2. PREFORMED JOINT FILLER SHALL CONFORM TO ASTM DESIGNATION D1751 AND MAY BE SUPPORTED WITH A THIN STEEL PLATE. REMOVE PLATE CAREFULLY WHILE THE CONCRETE IS PLASTIC.
- 3. SECTION B-B ALSO APPLIES TO DUMMY JOINT LOCATIONS.
- 4. JOINT SEALER SHALL BE SIKA FLEX 1A.
- 5. PREFORMED JOINT FILLER AND JOINT SEALER SHALL BE INCIDENTAL TO ITEM 5D2.262, STRUCTURAL CONCRETE ROADWAY AND PARAPET ON STEEL BRIDGES.

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	•	• •	. •	- 		X	1.1	ROAD U	NDERPASS
				By	Date		HOWARD	NEEDLES TAMMEN	& BERGENDOFF
			Designed	GPM	2/95	HNTE		HITECTS ENGINEED	
			Drawn	LMR	2/95	Contract S	5.11	Sheet No.	GR-13
			Checked	HNL	2/95	conduct C		60	of 65
on	By	Date	In Charge	:10	RAL				· · · · · · · · · · · · · · · · · · ·

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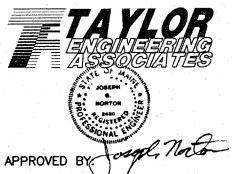




## **CLAYTON'S DESK COPY**

1	TITLE SHEET	
2	ESTIMATED QUANTITIES & EARTHWORK SUMMARY	
3	GENERAL NOTES & LEGEND	
 4	TYPICAL SECTIONS & DETAILS	
5	MISCELLANEOUS DETAILS	
6	EROSION CONTROL DETAILS	
 7-10	SITE PLANS	
11	ROUTE 9 PROFILE	
12-20	MAINTENANCE OF TRAFFIC PLANS & SIGNS	
21-24	MAXWELL BROOK BOX CULVERT STRUCTURAL PLANS	
25-33	ROUTE 9 CROSS SECTIONS	
34-60	ROUTE 9 BRIDGE RECONSTRUCTION PLANS	
61-63	ROUTE 9 AS-BUILT PLANS	
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## THE FOLLOWING PAGES WERE DESIGNED BY TAYLOR ENGINEERING: 2 - 33





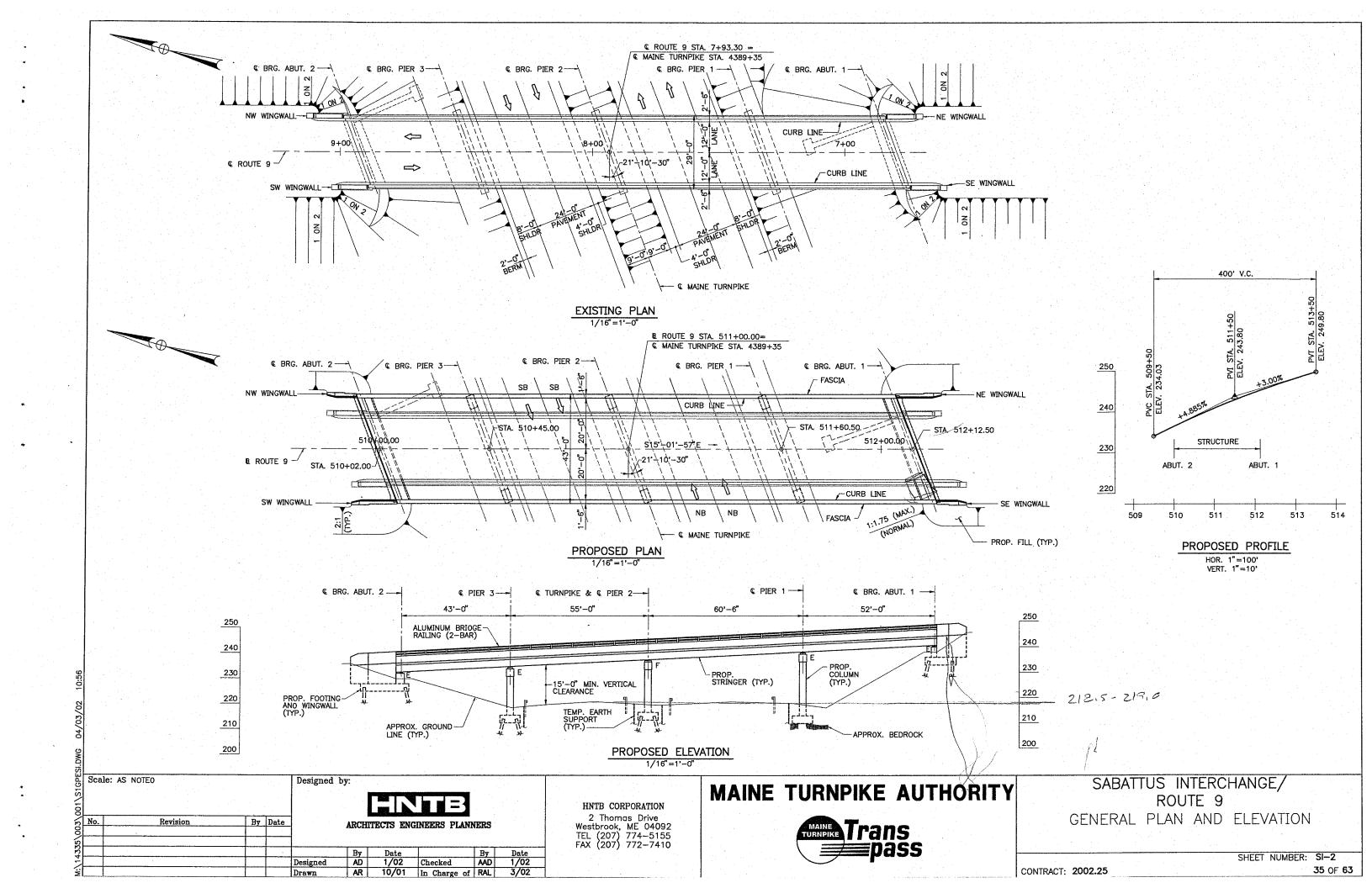
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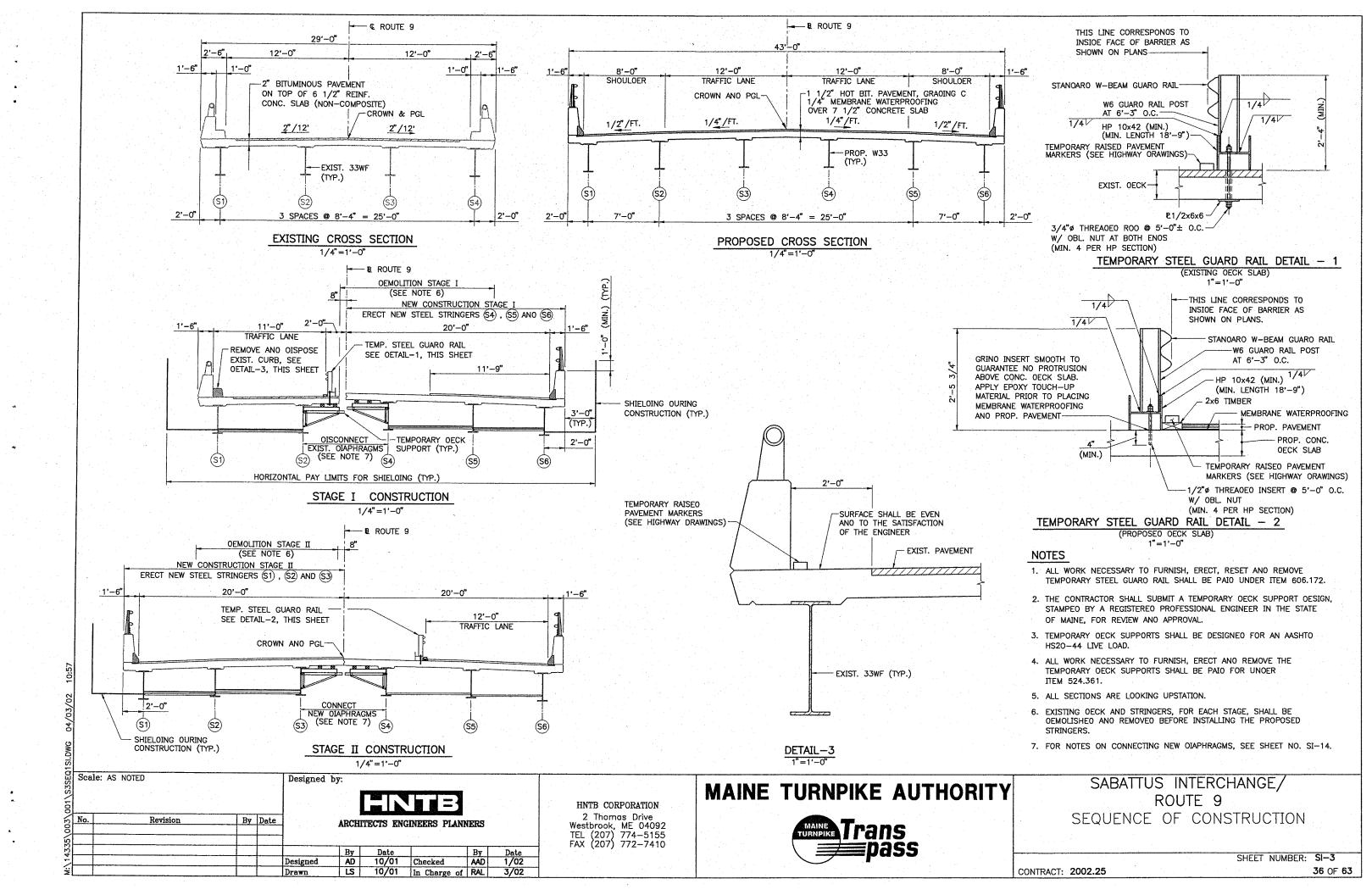
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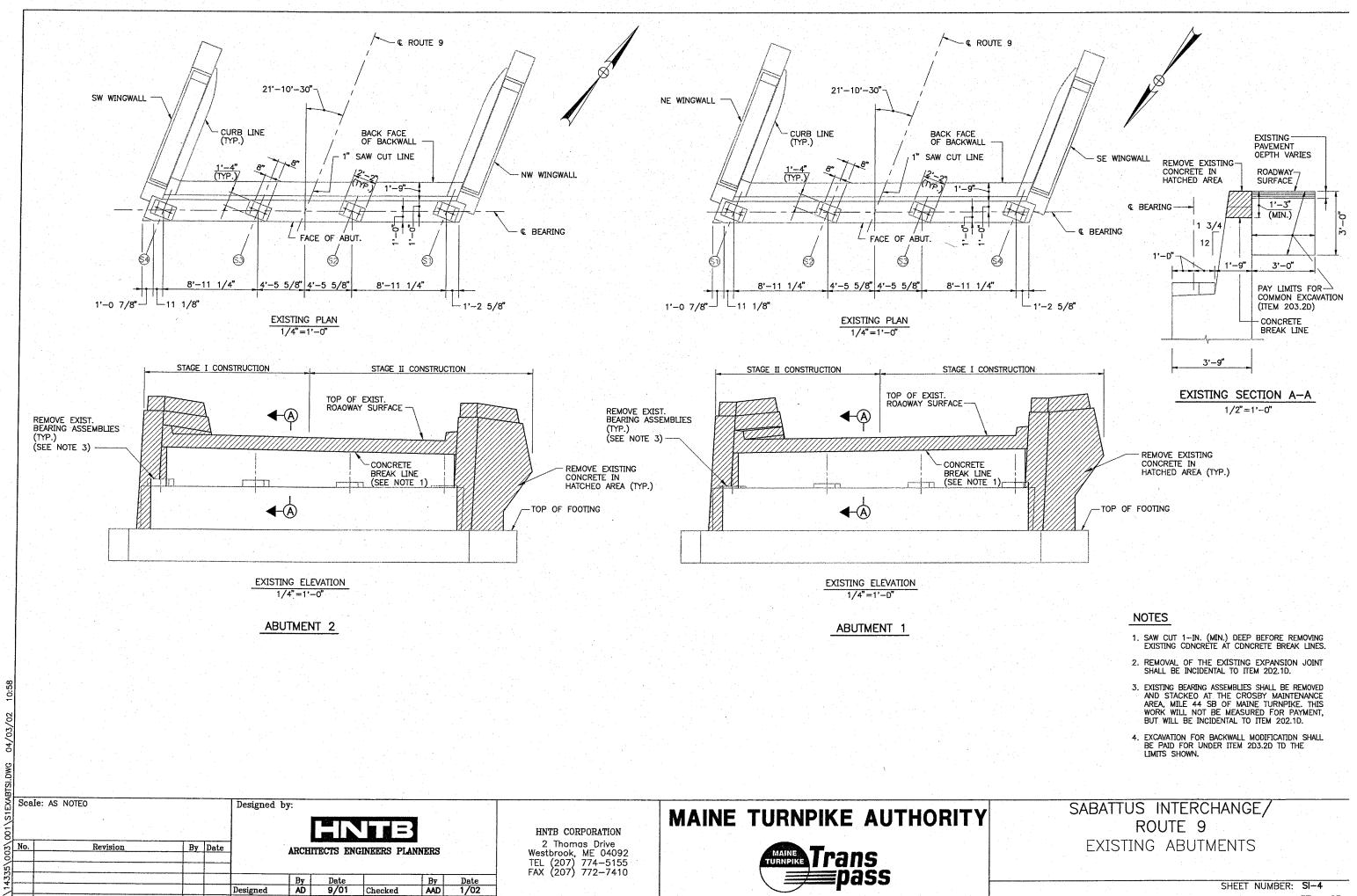
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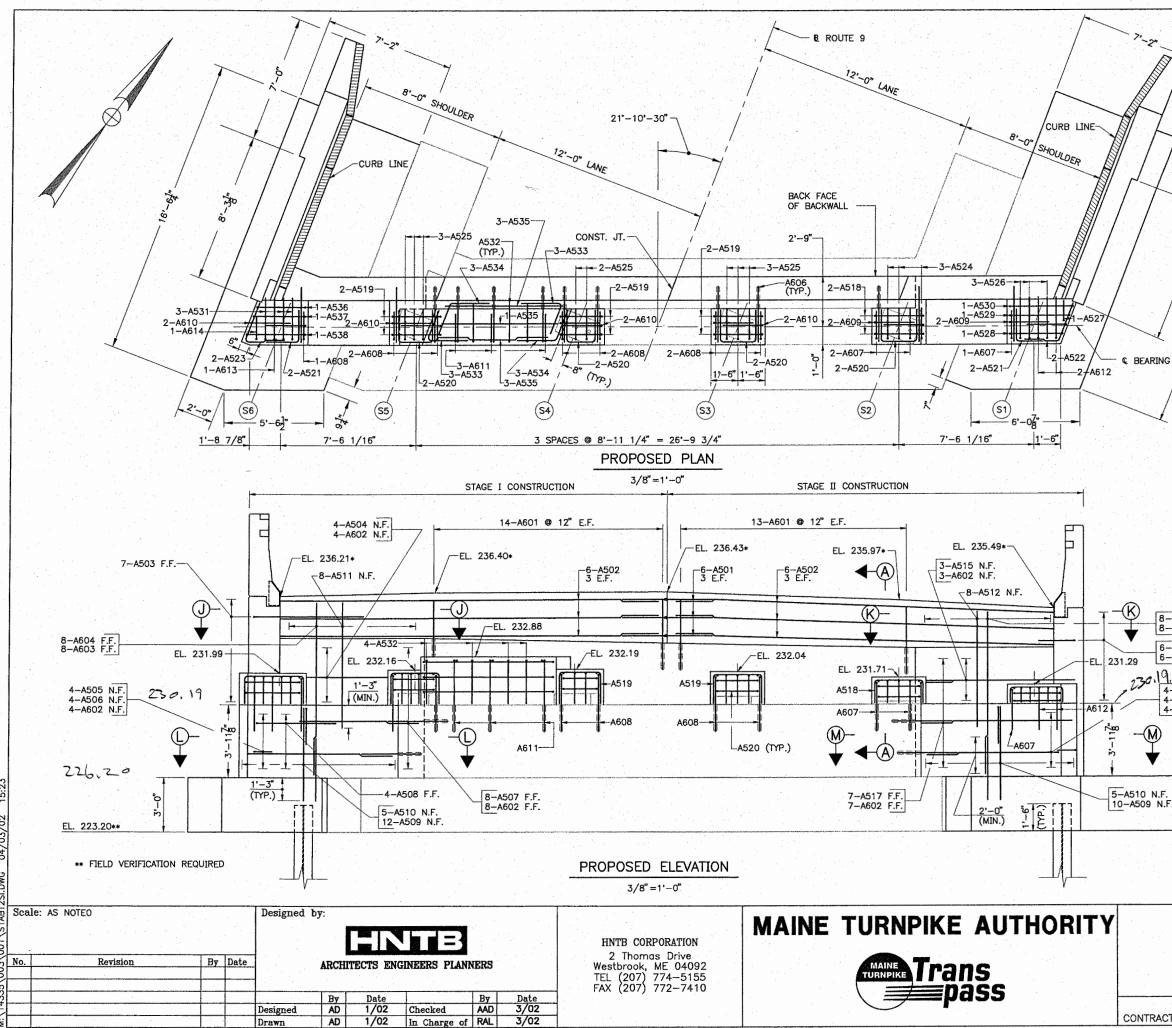
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CONTRACT: 2002.25

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## ABUTMENT NOTES

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8-A605 F.F. 8-A603 F.F.

6-A513 N.F.

6-A514 F.F.

4-A505 N.F

4-A516 N.F.

4-A602 N.F.

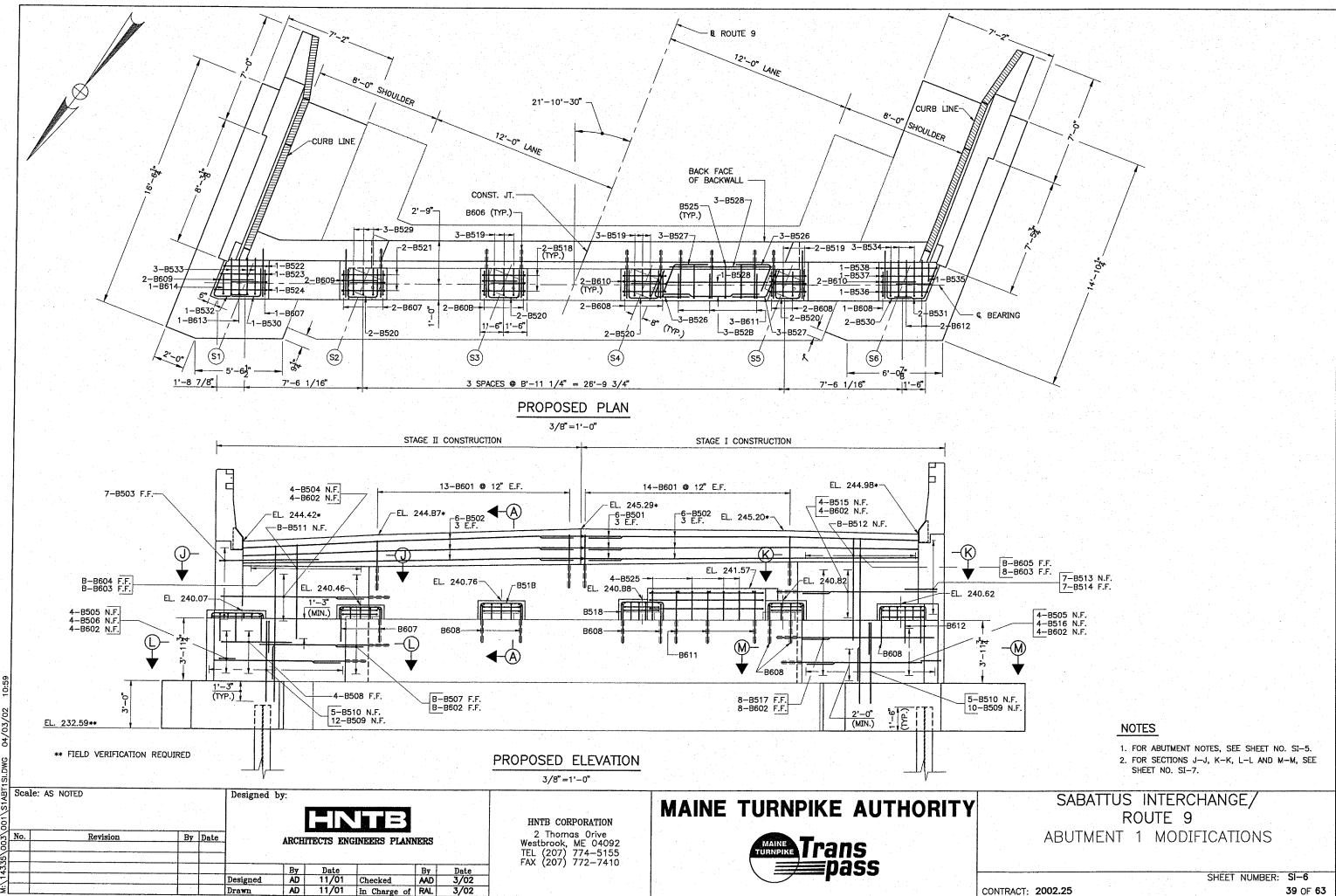
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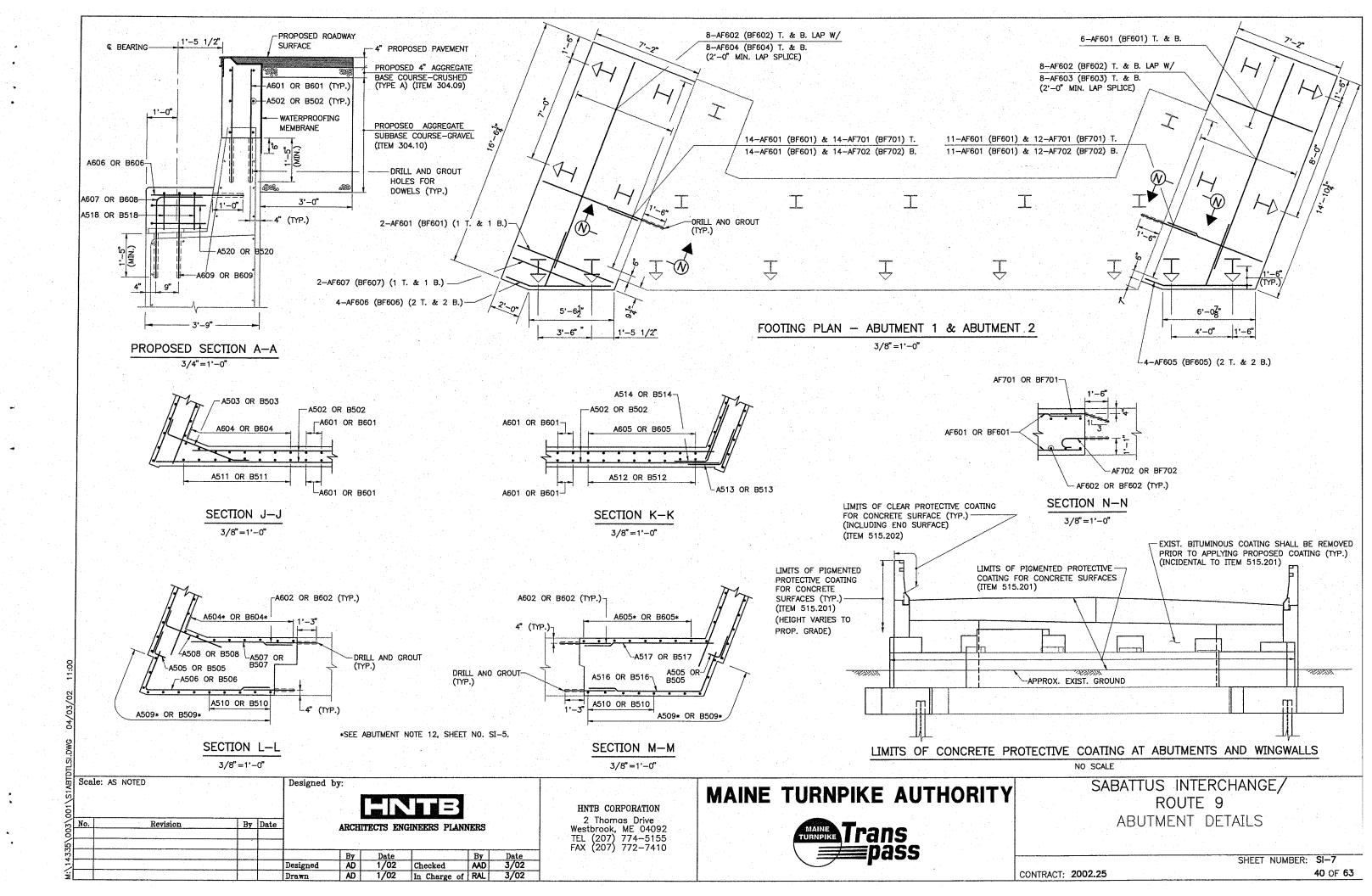
- 1. FOR REINFORCING STEEL SCHEDULE, SEE SHEET NO. SI-25.
- 2. FOR WINGWALL DETAILS, SEE SHEET NOS. SI-8 AND SI-9.
- 3. FOR ROADWAY EXPANSION JOINT OETAILS, SEE SHEET NOS. SI-19, SI-20 AND SI-21.
- 4. FOR LIMITS OF CONCRETE PROTECTIVE COATING, SEE SHEET NO. SI-7.
- 5. THE CONTRACTOR SHALL EXPOSE THE TOP LAYER OF THE EXISTING ABUTMENT REINFORCING STEEL, PRIOR TO DRILLING ANO GROUTING ANY OOWELS. THE CONTRACTOR SHALL REPORT ANY INTERFERENCE OF DOWELS WITH EXISTING REINFORCING STEEL TO THE ENGINEER. CARE SHALL BE TAKEN NOT TO DAMAGE THE EXISTING REINFORCING STEEL. (DRILLING ANO GROUTING HOLES SHALL BE INCIDENTAL TO ITEM 502.2191).
- 6. REMOVE ALL DETERIORATEO OR LOOSE CONCRETE AT EACH OF THE EXISTING CONCRETE PEOESTALS. CLEAN ANO ROUGHEN ALL CONCRETE SURFACES TO ELIMINATE BONO INHIBITING MATERIALS, INCLUDING LOCATIONS WHERE EXPOSING THE TOP LAYER OF REINFORCING STEEL IS NOT REQUIRED. CLEAN ALL EXPOSED REINFORCING STEEL USING AN ACCEPTABLE METHOD APPROVED OF BY THE ENGINEER, THEN APPLY AN EPOXY COATING TO THE BARS. APPLY A BONDING AGENT TO THE EXISTING SUBSTRATE BY FOLLOWING THE MANUFACTURER'S INSTRUCTIONS AND APPROVED OF BY THE ENGINEER, PRIOR TO PLACEMENT OF NEW CONCRETE. (PAYMENT SHALL BE INCIDENTAL TO ITEM NO. 502.2191).
- 7. \* ELEVATIONS SHOWN ARE AT THE FRONT FACE OF BACKWALL.
- SLOPE PROPOSEO BRIOGE SEAT 1/2" PER FT. OR MATCH EXISTING.
- 9. FOR SECTIONS J-J, K-K, L-L, M-M ANO FOUNDATION OETAILS, SEE SHEET NO. SI-7.
- 10. EXISTING PILES NOT SHOWN. REFER TO AS-BUILT PLANS FOR LOCATION.
- 11. PROPOSEO SECTION A-A, SHOWN ON SHEET NO. SI-7, REPRESENTS CONDITIONS AT ABUTMENT 2. PROPOSED SECTION A-A FOR ABUTMENT 1 IS SIMILAR, EXCEPT FOR THE MODIFIED HEIGHT OF BACKWALL AND CONCRETE BEARING PAD.
- 12. BAR MARKS A509 (B509) AND A603 (B603), WHICH ARE LOCATED OVER THE EXISTING FOOTING, SHALL BE ORILLED ANO GROUTED TO THE RESPECTIVE EMBEDMENT DEPTH PROVIDED.
- 13. BAR MARK A501 (B501) SHALL BE THE OOWEL BAR SPLICER SYSTEM, CONSISTING OF OOWEL BAR SPLICER (OB-SAE) ANO OOWEL-IN (DI), AS MANUFACTURED BY OAYTON/RICHMOND OR EQUIVALENT.
- 14. REINFORCING STEEL SHALL BE EQUALLY SPACEO, UNLESS OTHERWISE NOTEO.

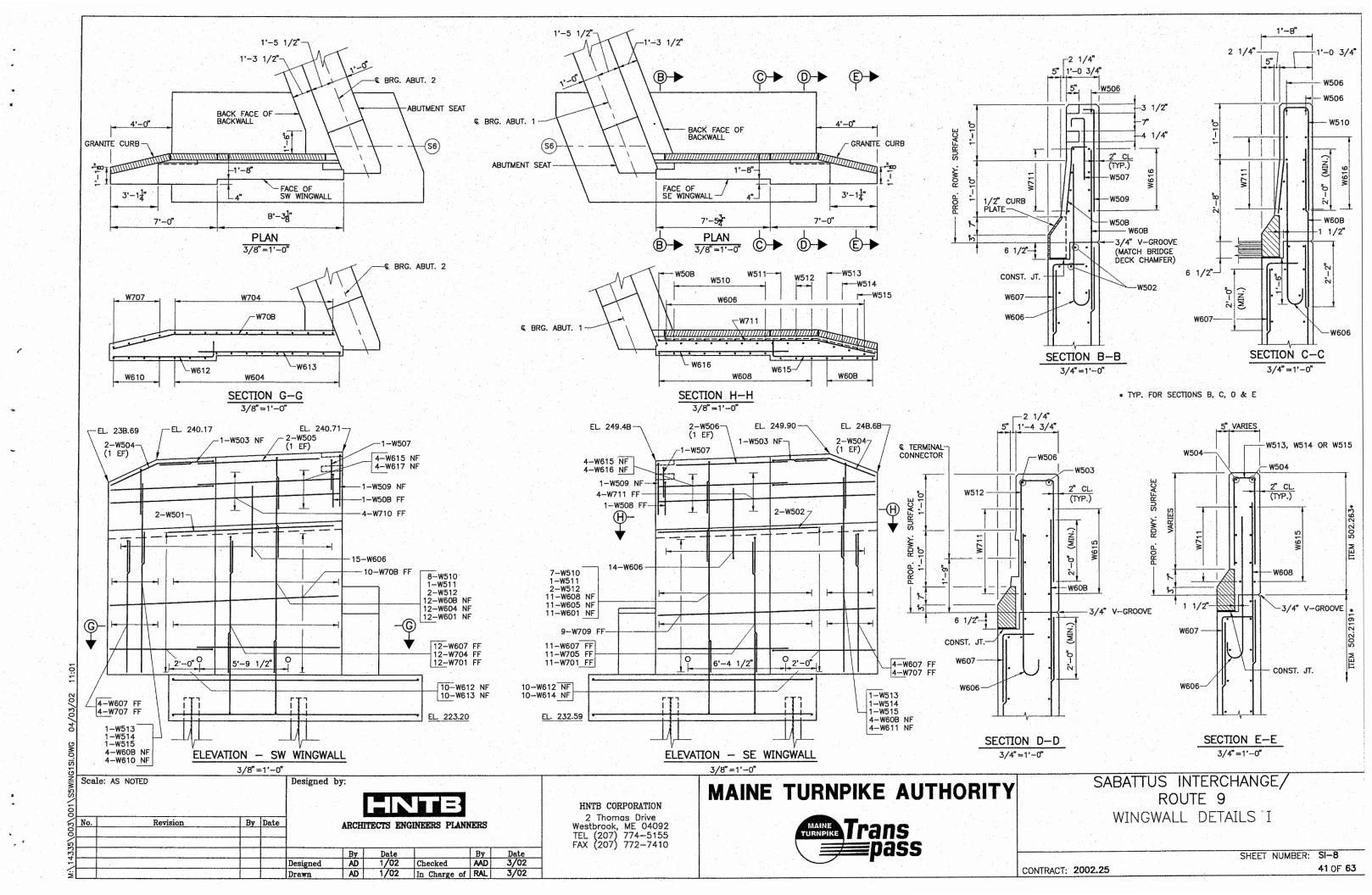
## SABATTUS INTERCHANGE/ ROUTE 9 ABUTMENT 2 MODIFICATIONS

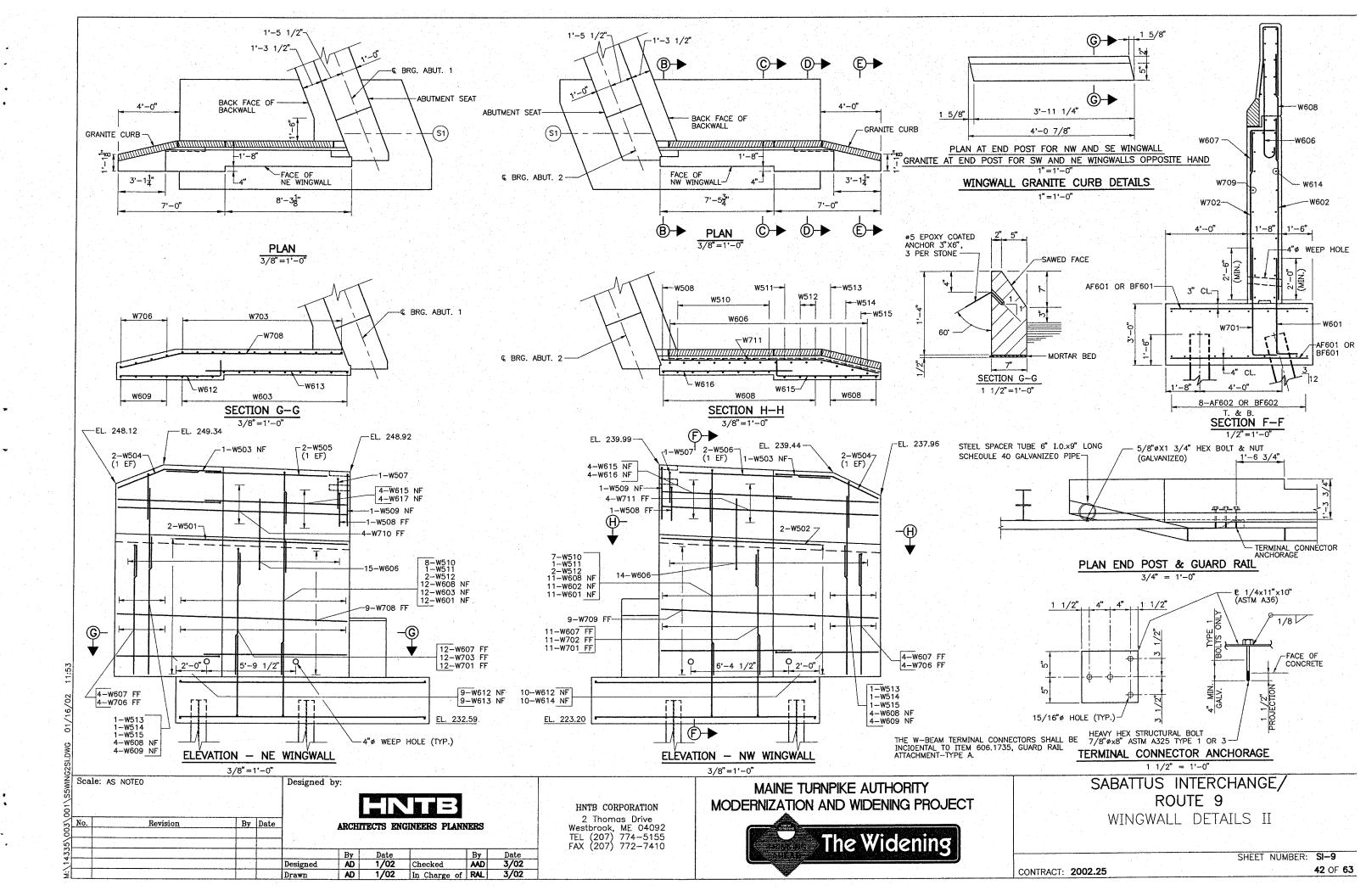
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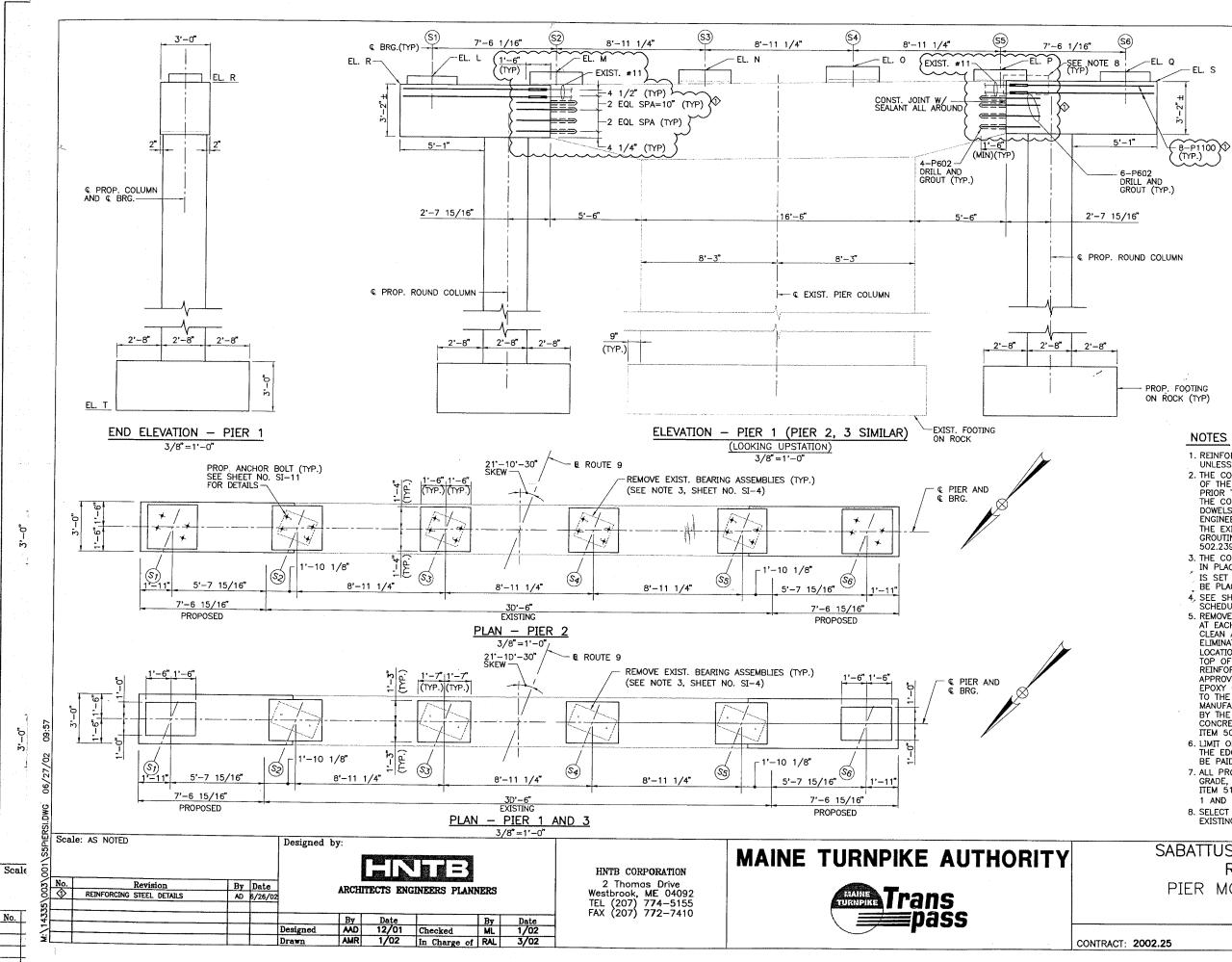
SHEET NUMBER: SI-5











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PIER ELEVATIONS							
POINT	PIER 1	PIER 2	PIER 3				
L	238.11	235.88	233.25				
M	238.50	236.29	233.66				
N	238.81	236.61	233.99				
0	238.94	236.74	234.14				
Р	238.88	236.69	234.10				
Q	238.69	236.51	233.92				
R*	237.24	235.00	232.03				
S*	237.88	235.58	232.86				
Ţ.*	211.D0	214.00	21D.0D				

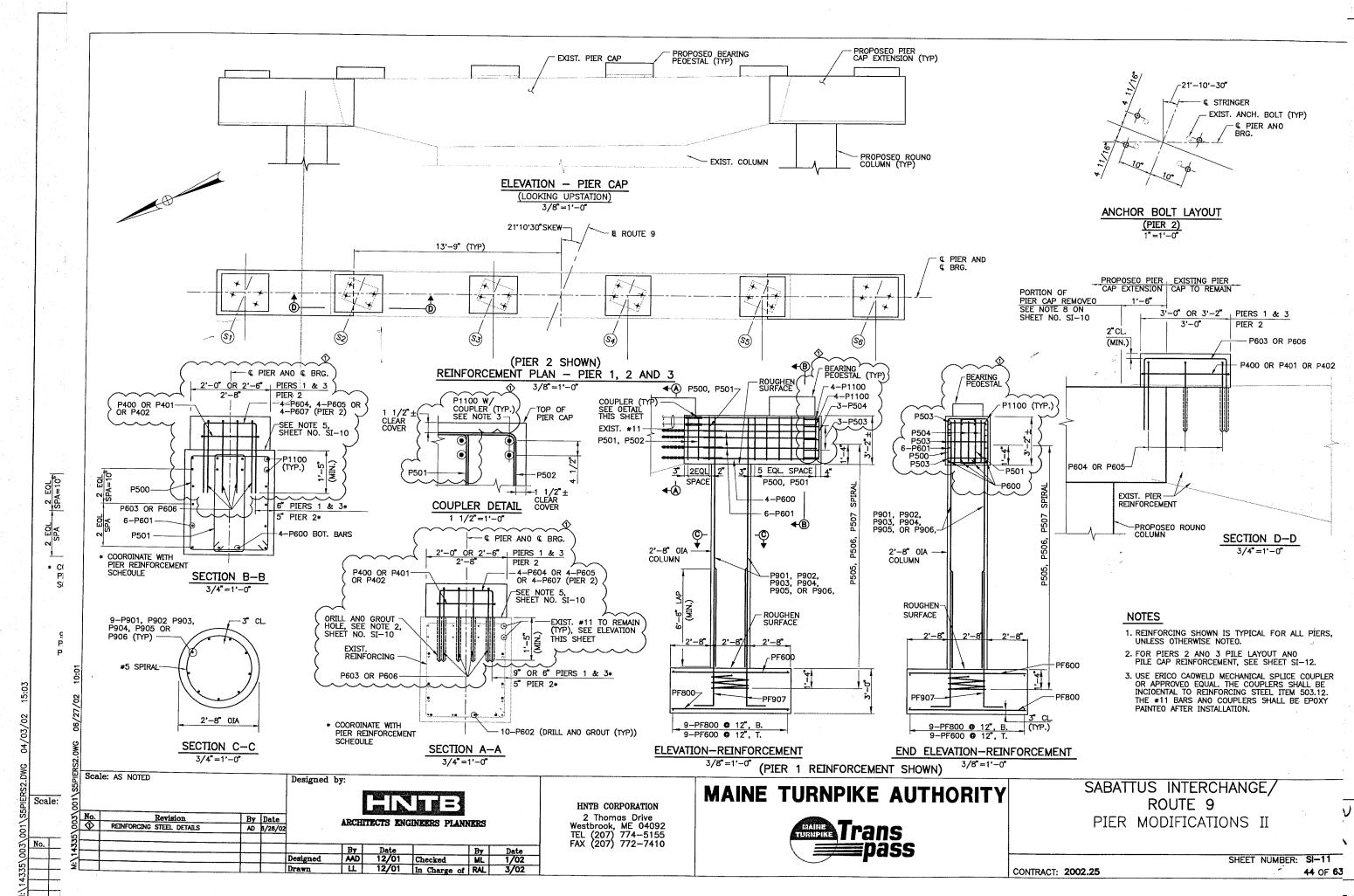
NOTE

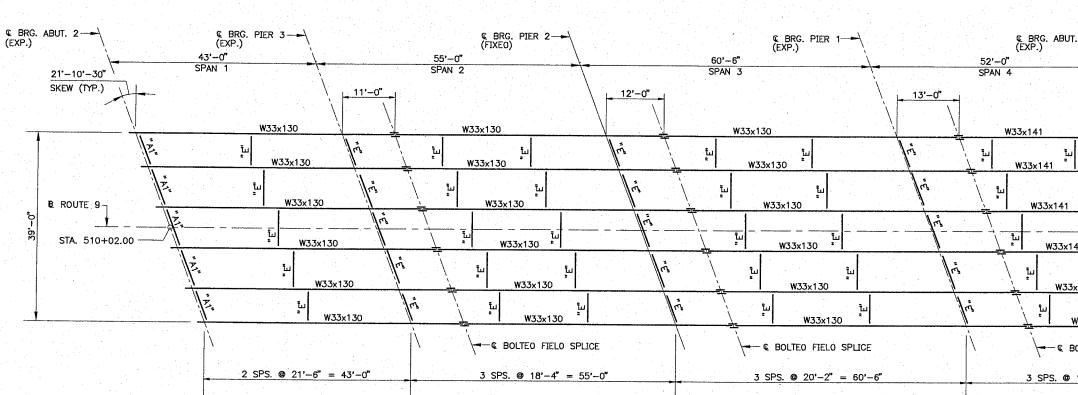
\* ELEVATIONS ARE APPROXIMATE. ACTUAL ELEVATION SHALL BE DETERMINED IN THE FIELD.

- 1. REINFORCING SHOWN IS TYPICAL FOR ALL PIERS, UNLESS OTHERWISE NOTED.
- 2. THE CONTRACTOR SHALL EXPOSE THE TOP LAYER OF THE EXISTING PIER CAP REINFORCING STEEL, PRIOR TO DRILLING AND GROUTING ANY DOWELS. THE CONTRACTOR SHALL REPORT INTERFERENCE OF DOWELS WITH EXISTING REINFORCING STEEL TO THE ENGINEER. CARE SHALL BE TAKEN NOT TO DAMAGE THE EXISTING REINFORCING STEEL. (DRILLING AND GROUTING HOLES SHALL BE INCIDENTAL TO ITEM 502.239).
- 3. THE CONTRACTOR SHALL SET THE ANCHOR BOLTS IN PLACE AT THE SAME TIME AS THE REINFORCEMENT IS SET FOR THE PEDESTALS. REINFORCEMENT SHALL BE PLACED TO AVOID REQUIRED ANCHOR BOLT LAYOUT. T ΄υτ. 4, SEE SHEET NO. SI-26 FOR REINFORCING STEEL
- SCHEDULE.
- 5. REMOVE ALL DETERIORATED OR LOOSE CONCRETE AT EACH OF THE EXISTING CONCRETE PEDESTALS. CLEAN AND ROUGHEN ALL CONCRETE SURFACES TO ELIMINATE BOND INHIBITING MATERIALS, INCLUDING LOCATIONS OF ALL BUILT-UP PEDESTAL AREAS ON TOP OF THE PIER CAPS. CLEAN ALL EXPOSED REINFORCING STEEL USING AN ACCEPTABLE METHOD APPROVED OF BY THE ENGINEER, THEN APPLY AN EPOXY COATING TO BARS. APPLY A BONDING AGENT TO THE EVISTING SUBSTRATE BY COLLOWING THE TO THE EXISTING SUBSTRATE BY FOLLOWING THE MANUFACTURER'S INSTRUCTIONS AND APPROVED OF BY THE ENGINEER, PRIOR TO PLACEMENT OF NEW CONCRETE. (PAYMENT SHALL BE INCIDENTAL TO ITEM 502.239).
- 6. LIMIT OF PIER EXCAVATION SHALL BE 1'-6" BEYOND THE EDGE OF THE PROPOSED PIER FOOTINGS AND BE PAID FOR UNDER ITEM 206.10.
- 7. ALL PROPOSED CONCRETE SURFACES, ABOVE FINISHED GRADE, SHALL BE COATED WITH PROTECTIVE COATING, ITEM 515.201, EXCEPT NON-TRAFFIC SIDE OF PIERS ID 1 AND 3 ONLY.
- 8. SELECT DEMOLITION METHOD SUCH THAT EXISTING #11 BARS ARE NOT DAMAGED.

## SABATTUS INTERCHANGE/ ROUTE 9 $\checkmark$ PIER MODIFICATIONS I SHEET NUMBER: SI-10 -

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