

10.447 | 11.75 | 11.75 | 3.19 | .75 | 11.75 | 192 x 192 x 12 | 25 |

BEARING MAX VERT.

LOAD (KIP

150

300

300

TYPE

NGE I

GE I

GE2

POT BEARING ALIGNMENT PLAN

GE2

NGE I

GE I

NGE I

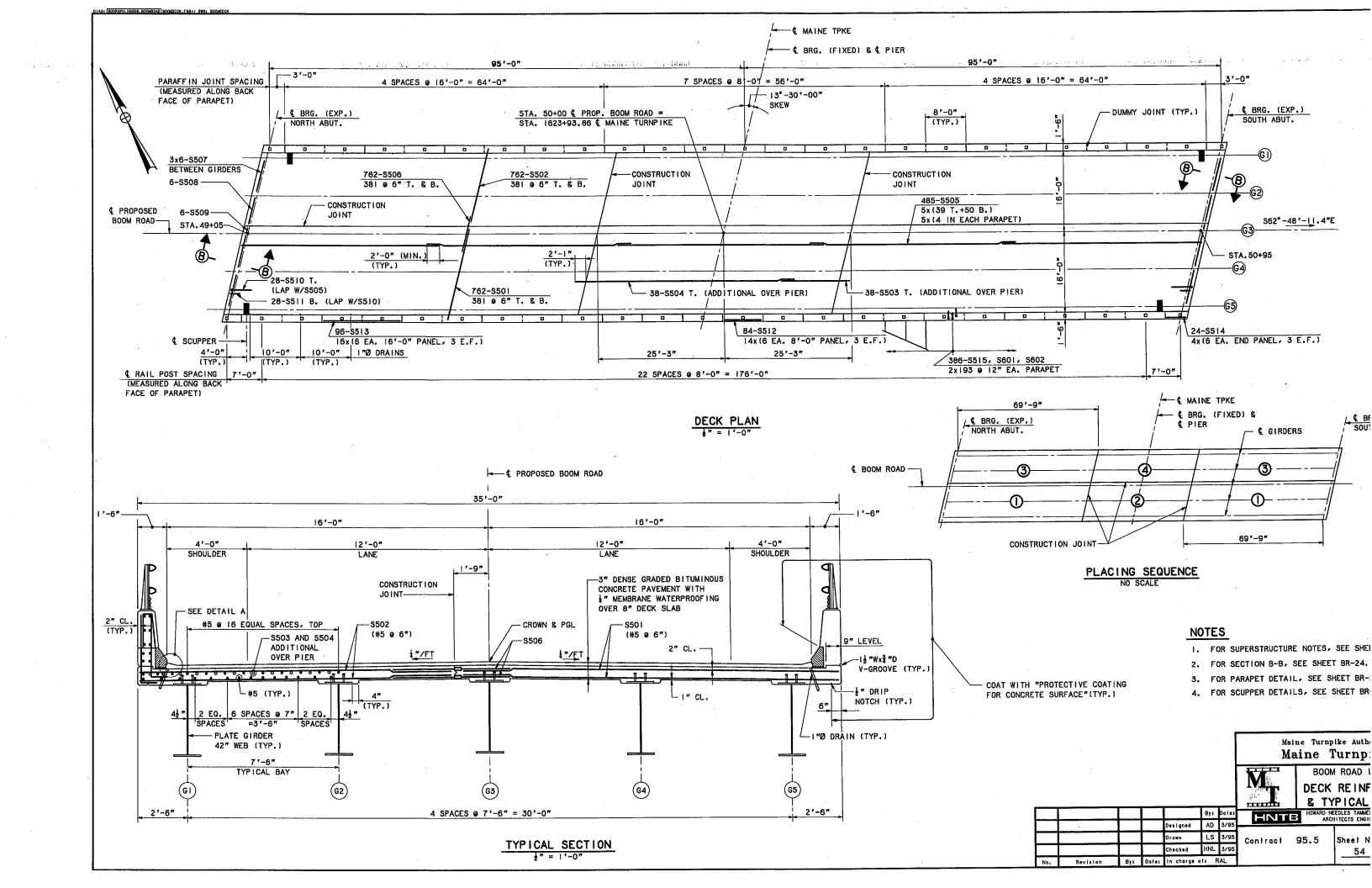
- GUIDED LONGITUDINAL EXP. TO- GUIDED TRANSVERSE EXP. O- NON - GUIDED EXPANSION

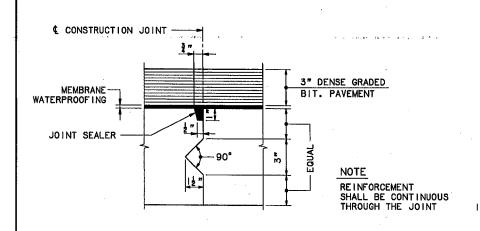
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	3/95	RJT	Drawn						
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Maine Turnpike Auth Maine Turnp BOOM ROAD POT BEARIN

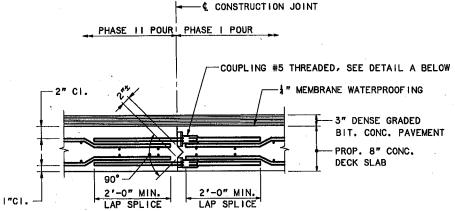
HNTB

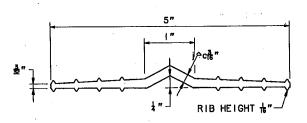
Contract 95.5 Sheel N 53





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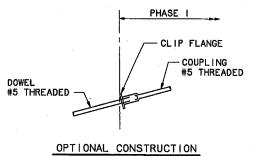




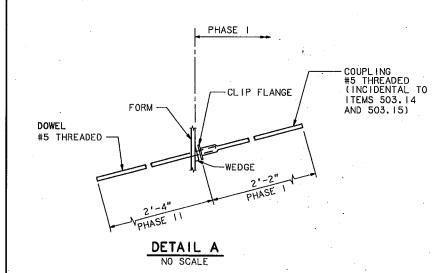
5" WATERSTOP FULL SIZE

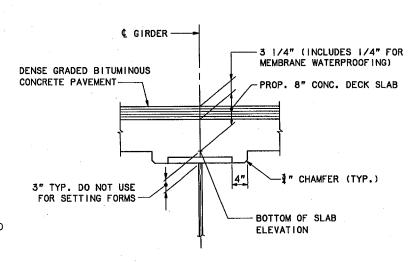
# TRANSVERSE CONSTRUCTION JOINT DETAIL

### LONGITUDINAL CONSTRUCTION JOINT DETAIL NOT TO SCALE









BLOCKING POINT DETAIL NO SCALE

### NOTE

TO COMPENSATE FOR DEAD LOAD DEFLECTIONS, AS WELL AS POSSIBLE IRREGULARITIES IN GIRDERS, SET THE BOTTOM OF SLAB ELEVATIONS AT THE POINTS INDICATED BEFORE ANY OF THE SLAB FORMWORK IS STARTED. SEE SUBSECTION 502.10(a) OF THE STANDARD SPECIFICATIONS. REVISION OF OCTOBER 1990.

7IL,	• 2L <sub>1</sub>	. 3L <sub>1</sub>	. 4L,	SPAN I	.6L,	71			& PIER					SPAN 2	r		T	01	E BRG.
• • •		. 3L,	. 4L,	.5L,	. 6L.	71	0.		1c									01	S. ARIIT
0 90 93	. 1					•/	.8L,	.9L,	난 BRG.	.IL2	.2L2	.3L <sub>2</sub>	.4L2	.5L <sub>2</sub>	.6L2	.7L <sub>2</sub>	.8L2	.9L <sub>2</sub>	S.ABUT.
0 1 09.00	90.12	90.38	90.61	90.79	90.93	91.04	91.12	91.18	91.24	91.29	91.33	91.35	91.35	91.31	91.25	91.17	91.08	90.97	90.86
0 89.93	90.23	90.50	90.73	90.91	91.06	91.17	91.26	91.32	91.38	91.44	91.48	91.51	91.51	91.48	91.42	91.35	91.25	91.14	91.03
0 90.04	90.34	90.61	90.84	91.03	91,18	91.30	91.39	91.46	91.53	91.59	91.64	91.67	91.68	91.65	91.59	91.52	91.42	91.31	91,20
8 89.83	90.14	90.41	90.65	90.84	91.00	91.12	91.21	91.29	91.36	91.42	91.48	91.52	91.53	91.50	91.44	91.37	91.27	91.17	91.05
7 89.61	89.93	90.21	90.45	90.65	90.81	<del></del>			91.19	91.26	91.32	91.36	91.37	91.36	91.30	91.22	91.13	91.02	90.9
E	90.04	90.04 90.34 8 89.83 90.14	90.04 90.34 90.61 8 89.83 90.14 90.41	90.04 90.34 90.61 90.84 8 89.83 90.14 90.41 90.65	90.04 90.34 90.61 90.84 91.03 8 89.83 90.14 90.41 90.65 90.84	90.04 90.34 90.61 90.84 91.03 91.18 8 89.83 90.14 90.41 90.65 90.84 91.00	90.04 90.34 90.61 90.84 91.03 91.18 91.30 8 89.83 90.14 90.41 90.65 90.84 91.00 91.12	90.04 90.34 90.61 90.84 91.03 91.18 91.30 91.39 8 89.83 90.14 90.41 90.65 90.84 91.00 91.12 91.21	90.04 90.34 90.61 90.84 91.03 91.18 91.30 91.39 91.46 8 89.83 90.14 90.41 90.65 90.84 91.00 91.12 91.21 91.29	90.04 90.34 90.61 90.84 91.03 91.18 91.30 91.39 91.46 91.53 89.83 90.14 90.41 90.65 90.84 91.00 91.12 91.21 91.29 91.36	90.04 90.34 90.61 90.84 91.03 91.18 91.30 91.39 91.46 91.53 91.59 89.83 90.14 90.41 90.65 90.84 91.00 91.12 91.21 91.29 91.36 91.42	90.04 90.34 90.61 90.84 91.03 91.18 91.30 91.39 91.46 91.53 91.59 91.64 8 89.83 90.14 90.41 90.65 90.84 91.00 91.12 91.21 91.29 91.36 91.42 91.48	9 90.04 90.34 90.61 90.84 91.03 91.18 91.30 91.39 91.46 91.53 91.59 91.64 91.67 8 89.83 90.14 90.41 90.65 90.84 91.00 91.12 91.21 91.29 91.36 91.42 91.48 91.52	9 90.04 90.34 90.61 90.84 91.03 91.18 91.30 91.39 91.46 91.53 91.59 91.64 91.67 91.68 3 89.83 90.14 90.41 90.65 90.84 91.00 91.12 91.21 91.29 91.36 91.42 91.48 91.52 91.53	9 90.04 90.34 90.61 90.84 91.03 91.18 91.30 91.39 91.46 91.53 91.59 91.64 91.67 91.68 91.65 8 89.83 90.14 90.41 90.65 90.84 91.00 91.12 91.21 91.29 91.36 91.42 91.48 91.52 91.53 91.50	9 90.04 90.34 90.61 90.84 91.03 91.18 91.30 91.39 91.46 91.53 91.59 91.64 91.67 91.68 91.65 91.59 89.83 90.14 90.41 90.65 90.84 91.00 91.12 91.21 91.29 91.36 91.42 91.48 91.52 91.53 91.50 91.44	90.04 90.34 90.61 90.84 91.03 91.18 91.30 91.39 91.46 91.53 91.59 91.64 91.67 91.68 91.65 91.59 91.52 8 89.83 90.14 90.41 90.65 90.84 91.00 91.12 91.21 91.29 91.36 91.42 91.48 91.52 91.53 91.50 91.44 91.37	90.04 90.34 90.61 90.84 91.03 91.18 91.30 91.39 91.46 91.53 91.59 91.64 91.67 91.68 91.65 91.59 91.52 91.42 8 89.83 90.14 90.41 90.65 90.84 91.00 91.12 91.21 91.29 91.36 91.42 91.48 91.52 91.53 91.50 91.44 91.37 91.27	90.04 90.34 90.61 90.84 91.03 91.18 91.30 91.39 91.46 91.53 91.59 91.64 91.67 91.68 91.65 91.59 91.52 91.42 91.31 89.83 90.14 90.41 90.65 90.84 91.00 91.12 91.21 91.29 91.36 91.42 91.48 91.52 91.53 91.50 91.44 91.37 91.27 91.17

## SUPERSTRUCTURE NOTES

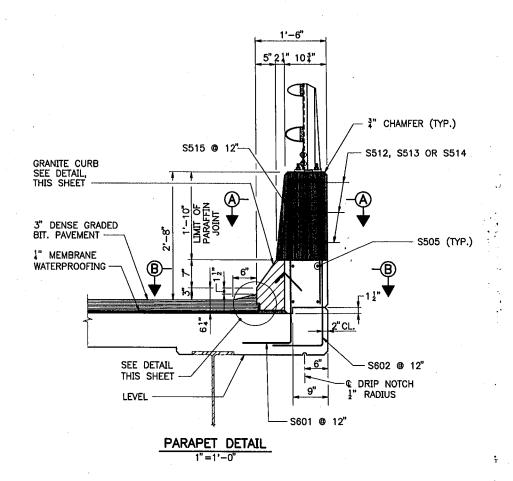
- I. CHAMFER ALL EXPOSED EDGES OF CONCRETE 3/4", UNL OTHERWISE NOTED.
- 2. REINFORCING STEEL TO HAVE A MINIMUM COVER OF 2" UNLESS OTHERWISE NOTED.
- 3. MORTAR FOR BEDDING AND FOR JOINTS IN THE GRANIT SHALL CONTAIN A NON-SHRINK ADDITIVE.
- 4. THE SUPERSTRUCTURE SLAB CONCRETE IN EACH STAGE BE PLACED IN ONE CONTINUOUS OPERATION AND KEPT UNTIL THE ENTIRE STAGE HAS BEEN PLACED. SET RE ADMIXTURE SHALL BE USED WHEN AUTHORIZED BY THE
- ADJUST REINFORCING STEEL TO FIT AROUND THE DRAI MANNER APPROVED BY THE ENGINEER. DO NOT CUT TE REINFORCING.
- 6. PROTECTIVE COATING FOR CONCRETE SURFACES SHALL
  AT THE FOLLOWING AREAS: PARAPET SURFACES, FASC
  TO DRIP NOTCH AND ALL EXPOSED CONCRETE CONCRETE
- 7. FOR DRAIN DETAILS, SEE SHEET BR-20.
- 8. FOR 2-BAR ALUMINUM BRIDGE RAIL DETAILS, SEE SHE
- 9. FOR STEEL REINFORCEMENT SCHEDULE SEE SHEET BR-3
- 10. IF THE SLAB PLACEMENT HAS TO BE TERMINATED, THE TERMINATION POINT MUST BE AT THE POINTS INDICATHE PLACEMENT DETAILS, SHOWN ON SHEET BR-18.

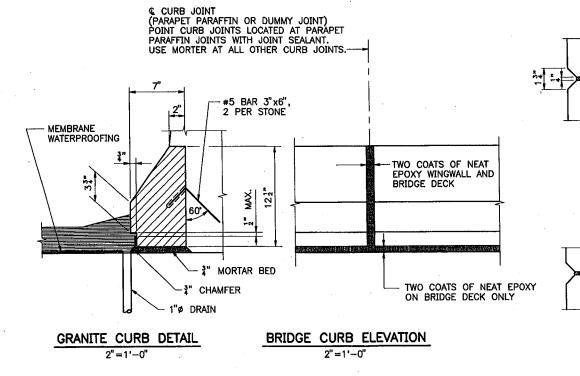
Maine Turnpike Auth Maine Turnp BOOM ROAD SUPERST

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No.	Revision	By:	Dales	In charge	of: F	RAL.				

OWARD NEEDLES TAMM HNTB ontract 95.5 Sheet N 55

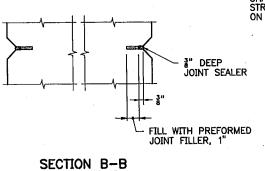
DETAI





## PARAFFIN AND DUMMY JOINT NOTES 1. CONCRETE SHALL BE PLACED SIMULTA BOTH SIDES OF JOINT.

- 2. PREFORMED JOINT FILLER SHALL CON ASTM DESIGNATION D1751 AND MAY E WITH A THIN STEEL PLATE. REMOVE F CAREFULLY WHILE THE CONCRETE IS
- SECTION B-B ALSO APPLIES TO DUMI JOINT LOCATIONS.
- 4. JOINT SEALER SHALL BE SIKA FLEX 1
- 5. PREFORMED JOINT FILLER AND JOINT SHALL BE INCIDENTAL TO ITEM 502.2 STRUCTURAL CONCRETE ROADWAY AND ON STEEL BRIDGES.



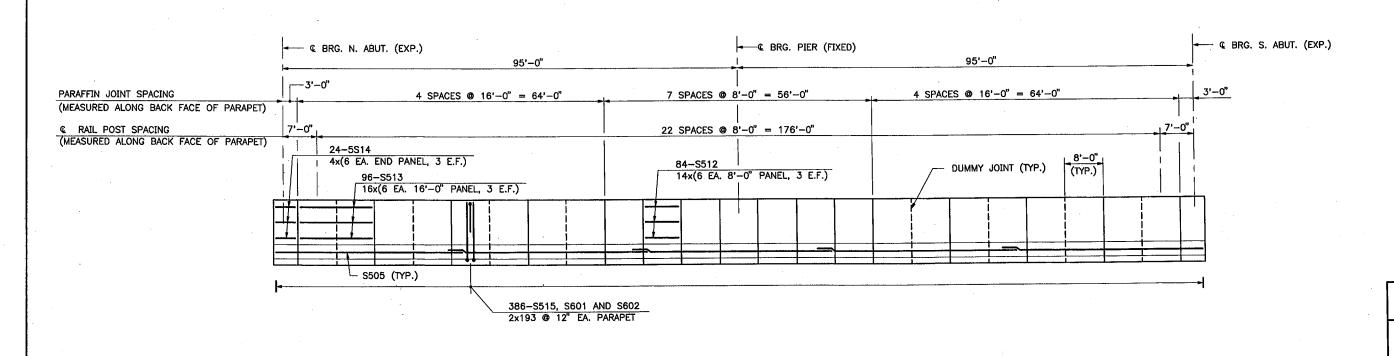
3" DEEP

JOINT SEALER

PREFORMED JOINT FILLER (SEE NOTE 2)

SECTION A-A

3"=1'-0"



PARAPET ELEVATION

HORIZ. 1"=10'

VERT. 1"=2'

Maine Turnpike Autl Maine Turnp

SUPERST DETAI

Sheet 1

56

Designed DMD 3/95

Drawn LMR 3/95

Checked HNL 3/95

By Date In Charge Of: RAL

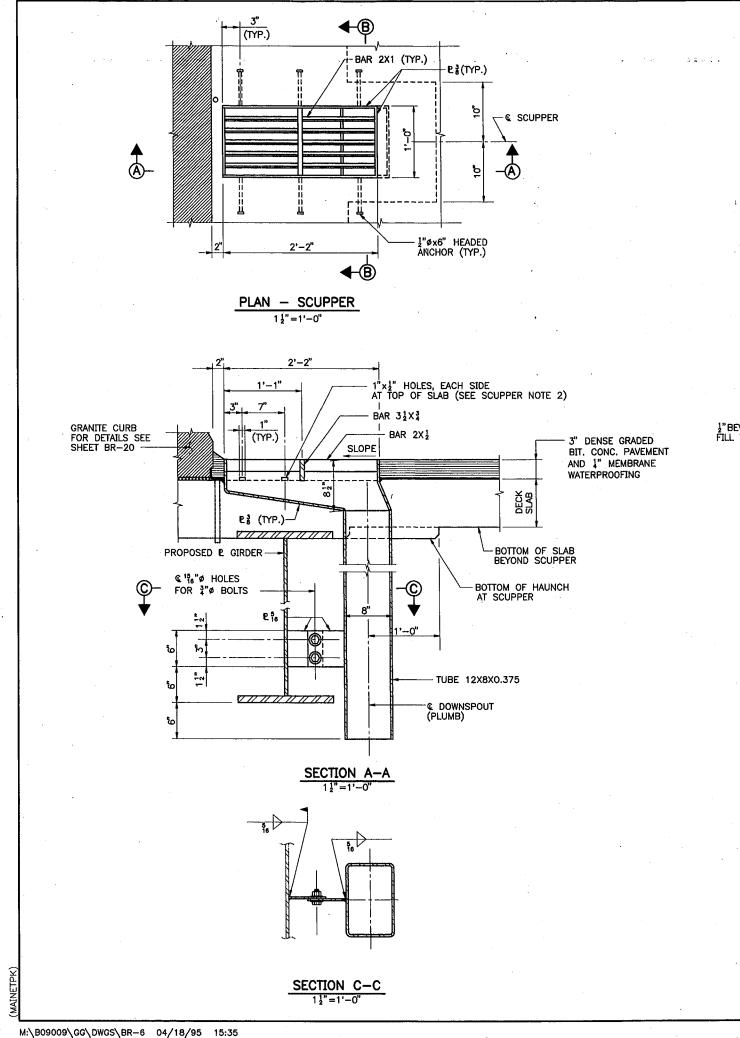
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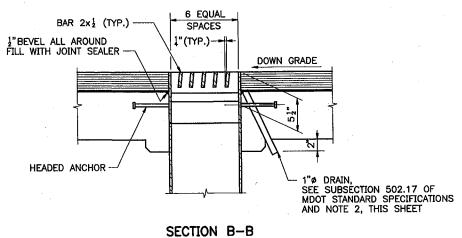
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BOOM ROAD

HOWARD NEEDLES TA ARCHITECTS ENG

Contract 95.5





## SCUPPER NOTES

I'm a good a ward a blood the

- 1. ALL WELDS TO BE CONTINUOUS 1" FILLET WELDS EXCEPT
- DO NOT COVER DECK DRAINS WITH MEMBRANE WATERPRO DEPRESS DRAINS ½" BELOW TOP OF SLAB, PROVIDE 23 GALVANIZED SCREENS (¼" MESH) OVER DRAINS.
- SCUPPERS TO BE GALVANIZED AFTER FABRICATION. GALVA SHALL CONFORM TO ASTM A153.
- ALL PLATES SHALL CONFORM TO ASTM A709, GRADE 36.
- STRUCTURAL TUBES SHALL CONFORM TO ASTM A501.
- PAYMENT FOR SCUPPERS PVC DRAINS AND SCREENS INCIDENTAL TO CONTRACT ITEM 502.262.
- FOR LOCATION OF SCUPPERS AND 1"# DRAINS, SEE SHEET BR-18.

Maine Turnpike Auth Maine Turnp BOOM ROAD

**SCUPPER** 

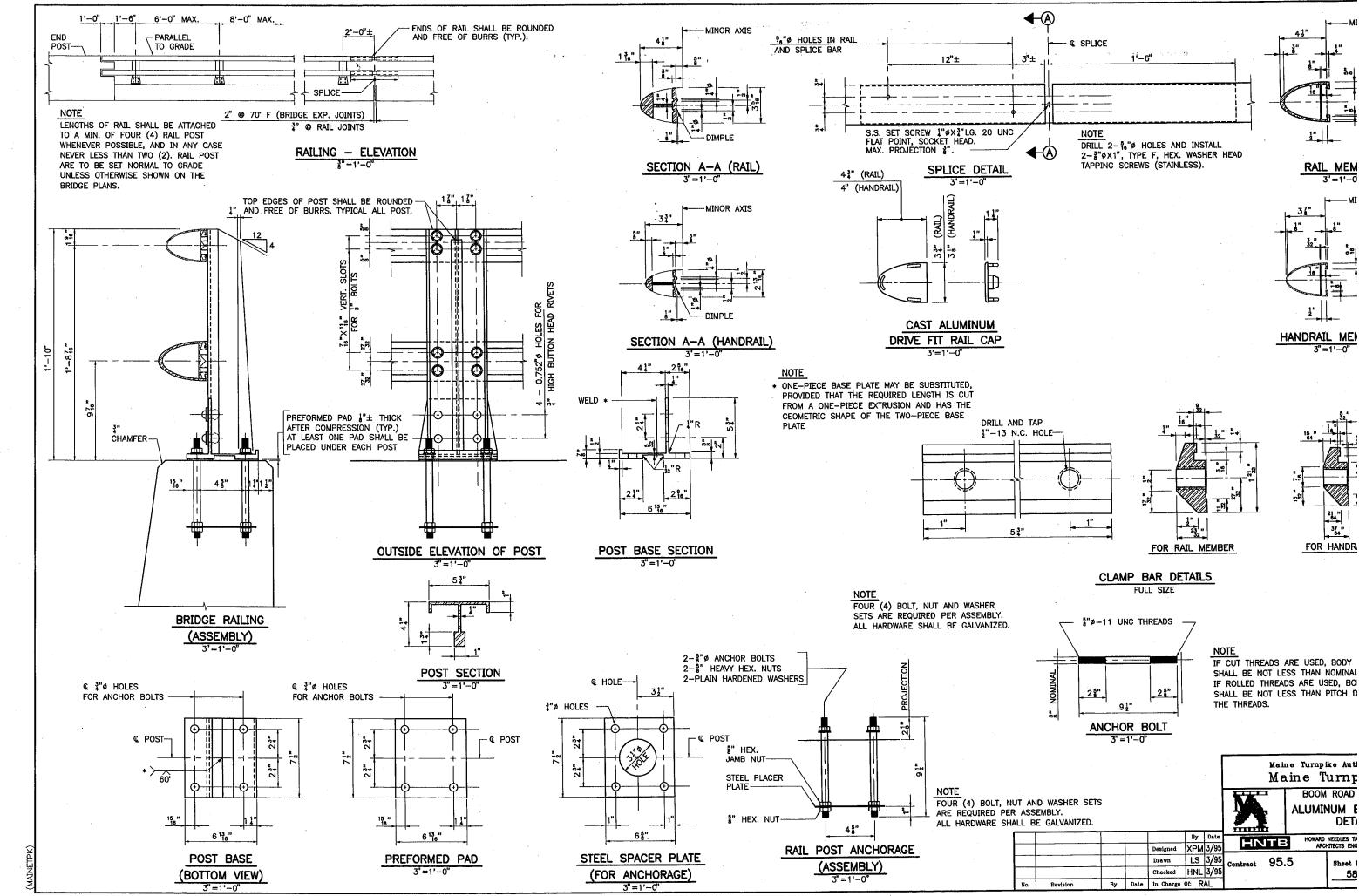
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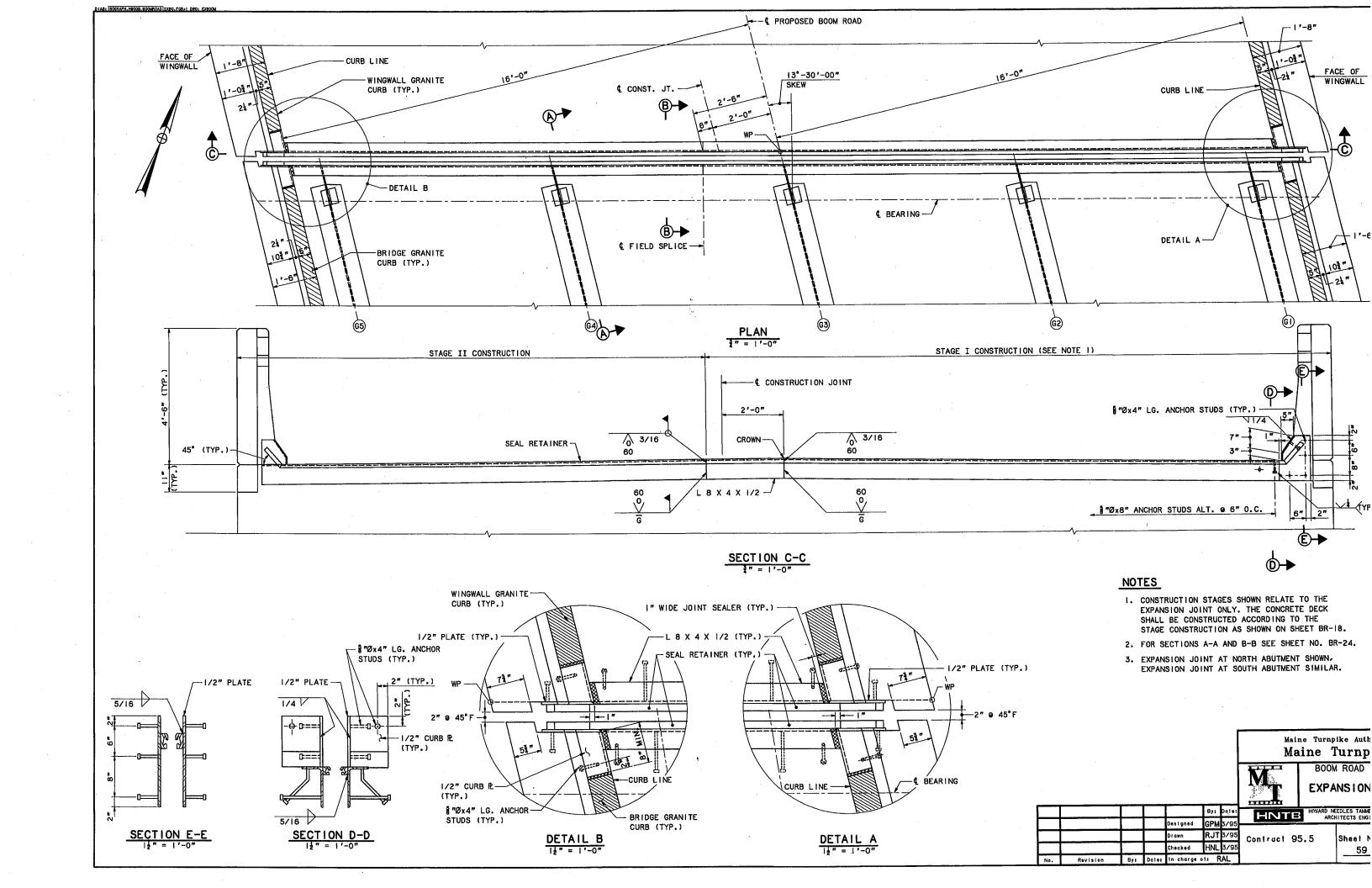
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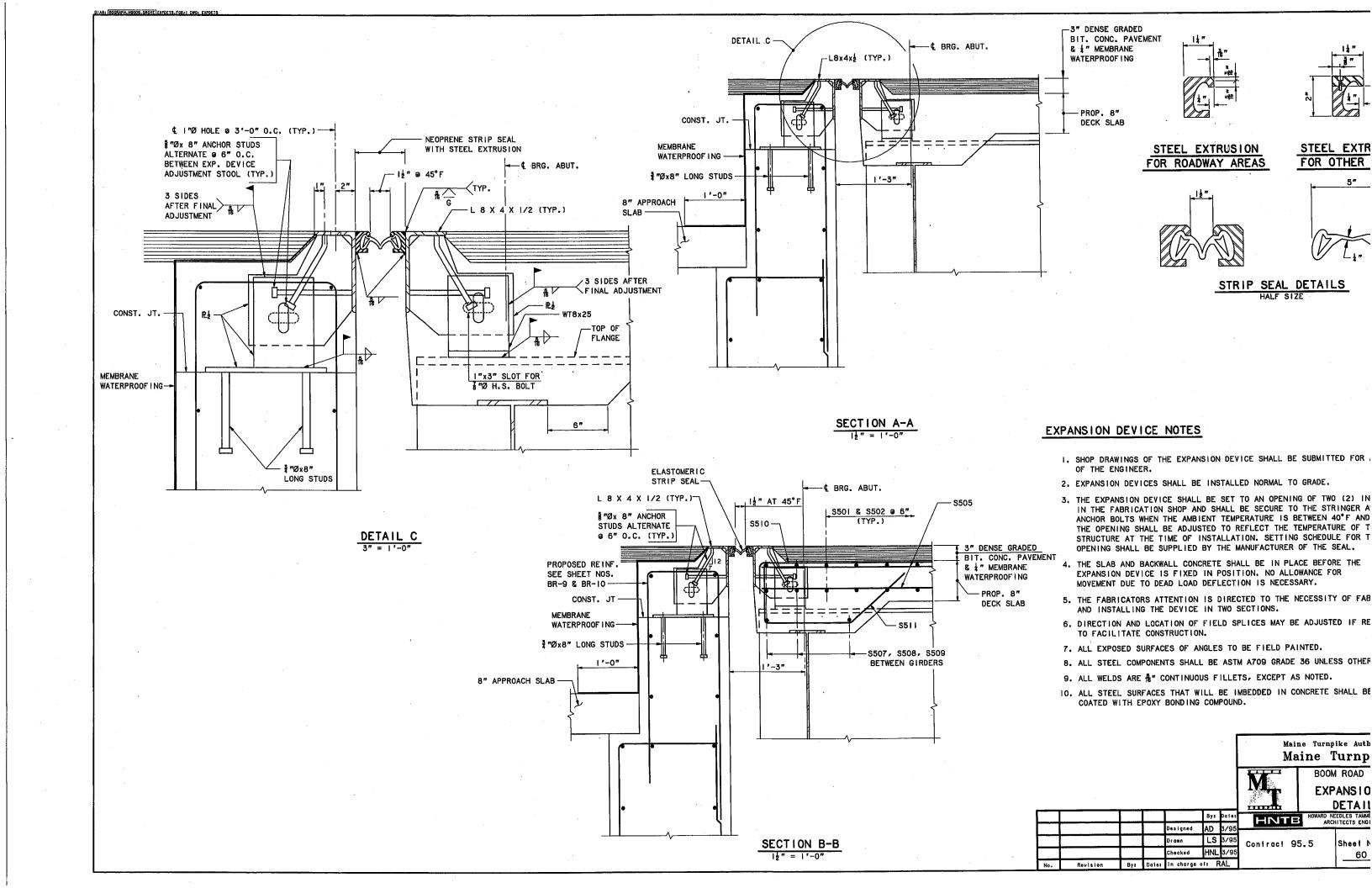
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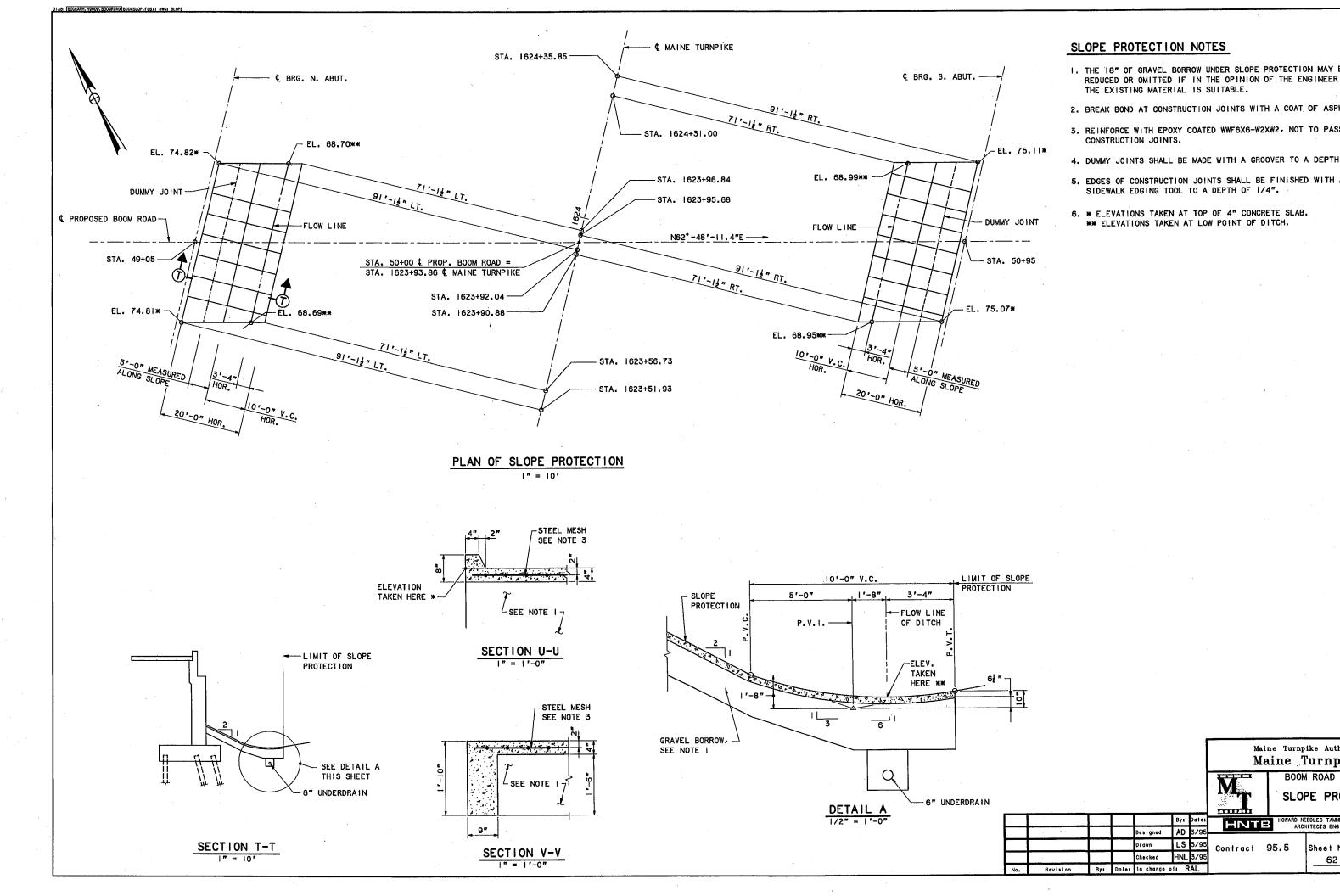
Designed SHR 3/95 Drawn LMR 3/95 Contract 95.5 Checked GPM 3/95

By Date In Charge Of: RAL









Maine Turnpike Auth

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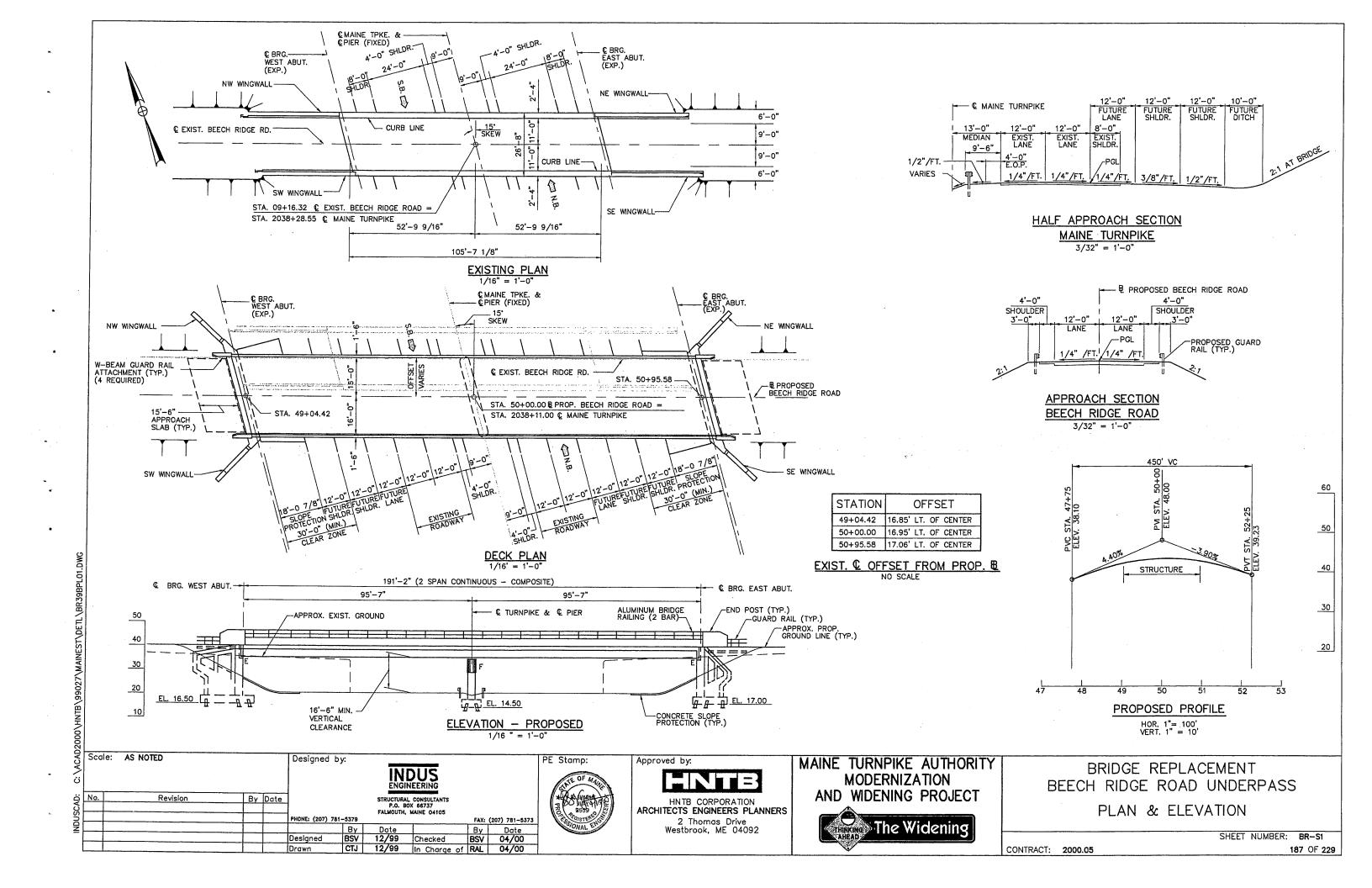
Contract 95.5

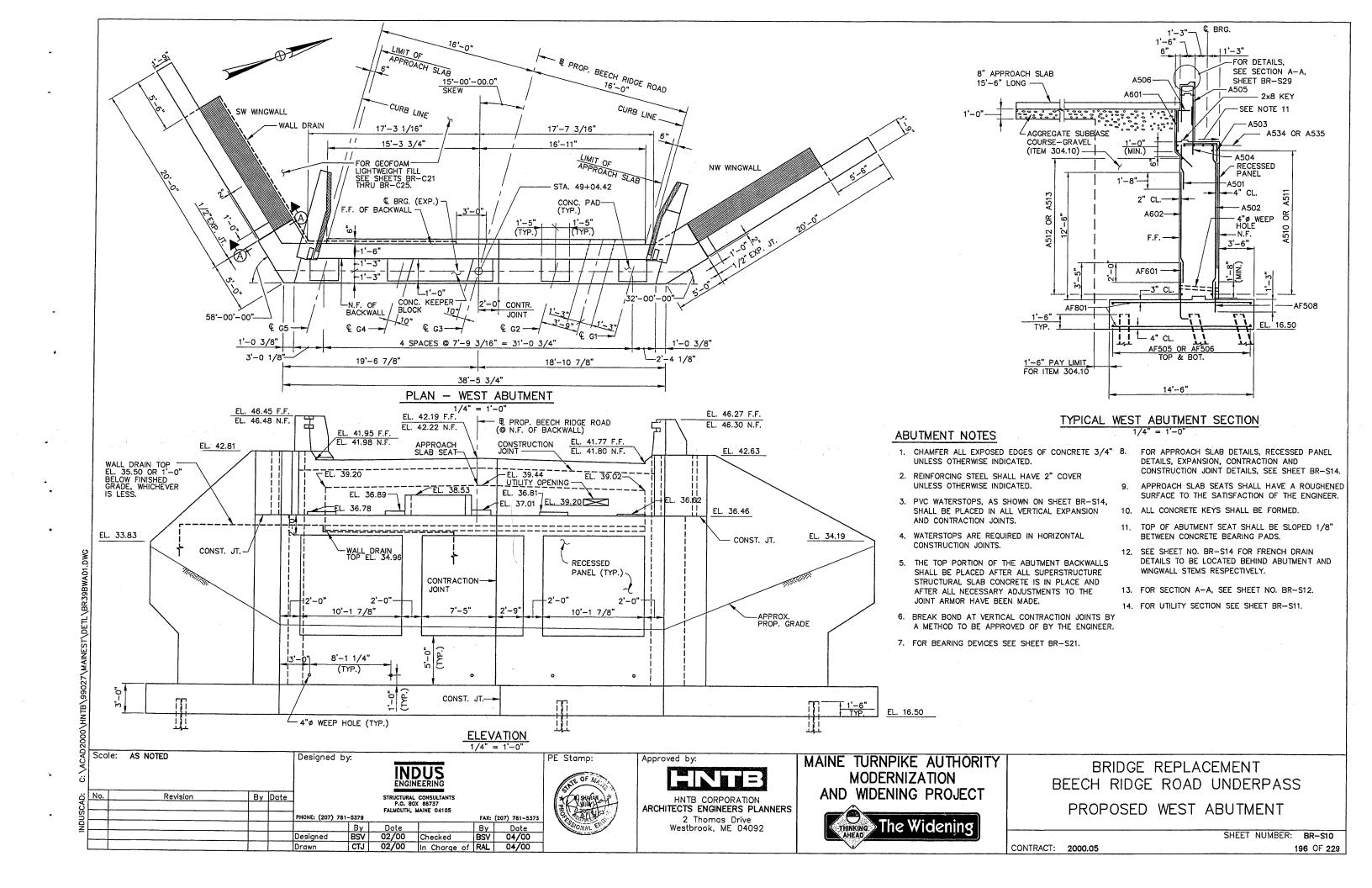
BOOM ROAD

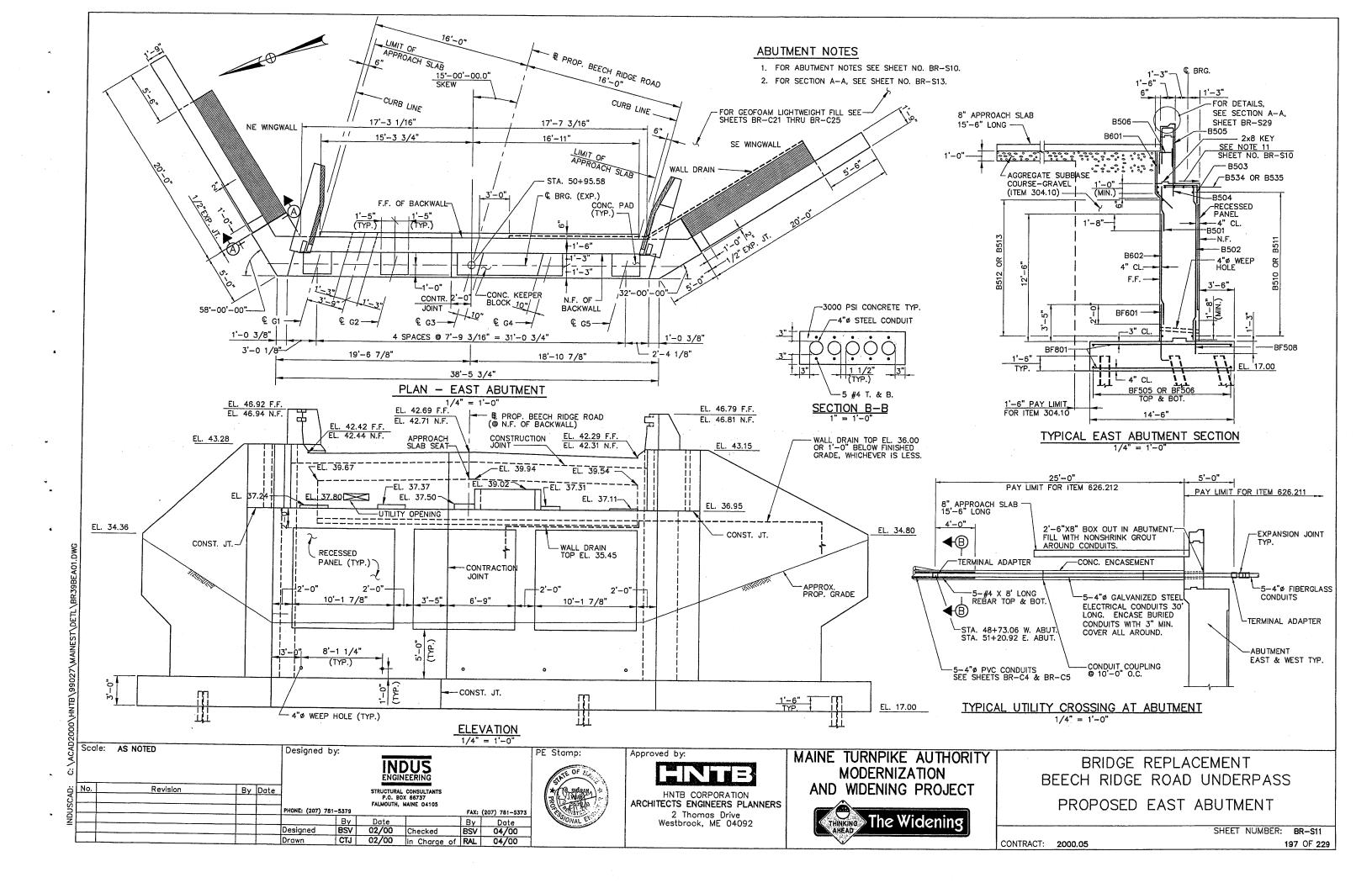
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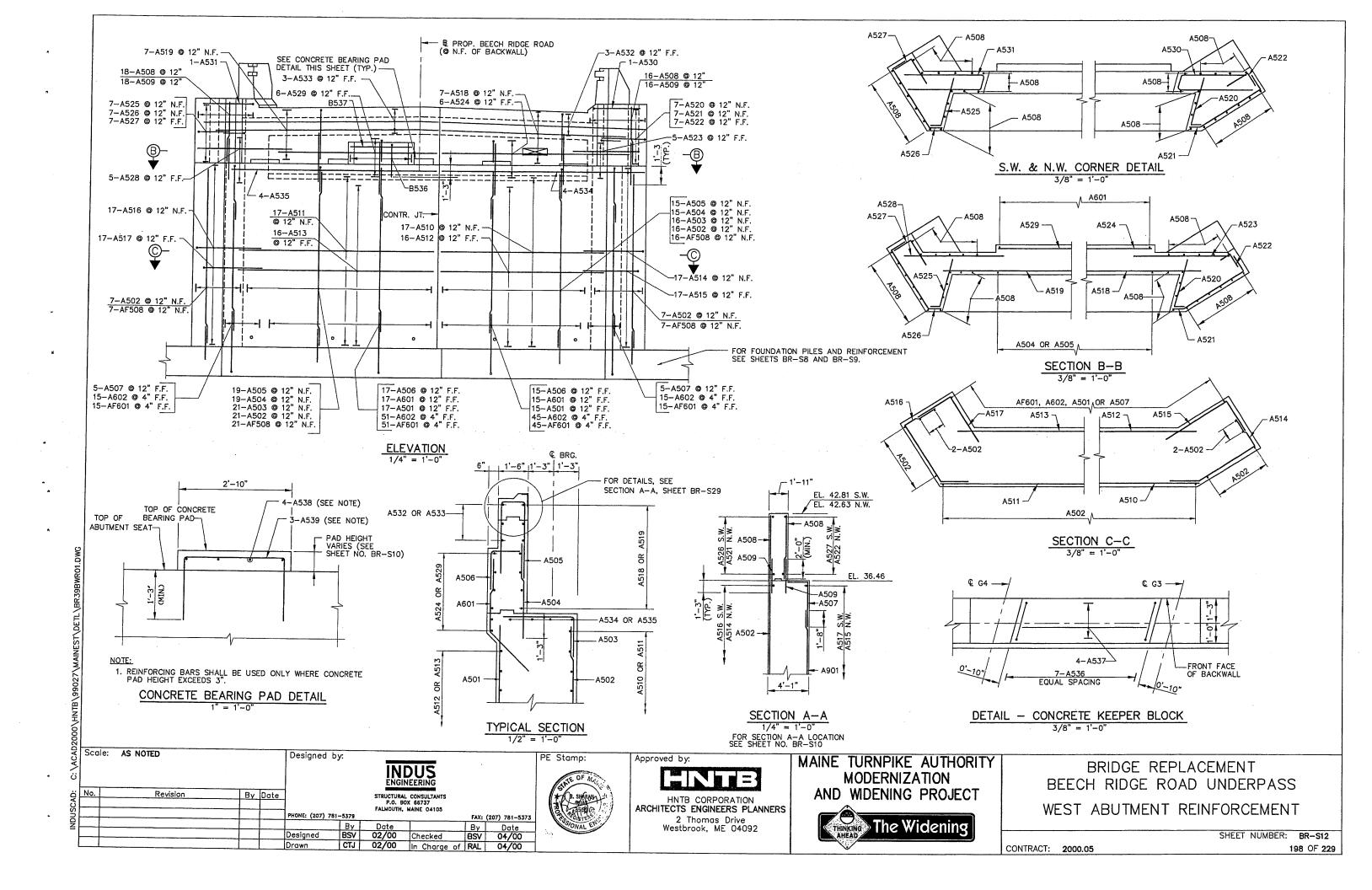
Sheet 1

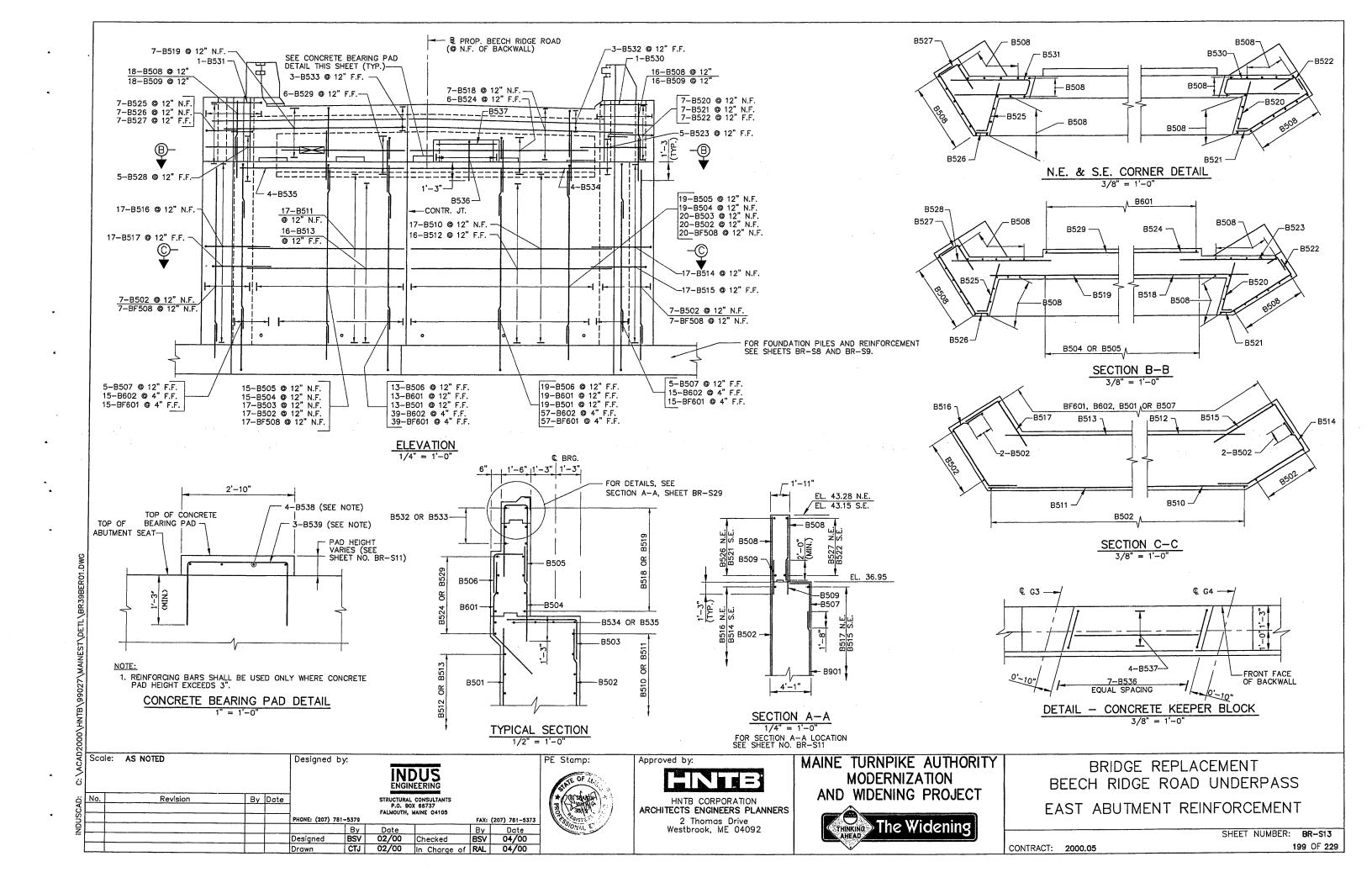
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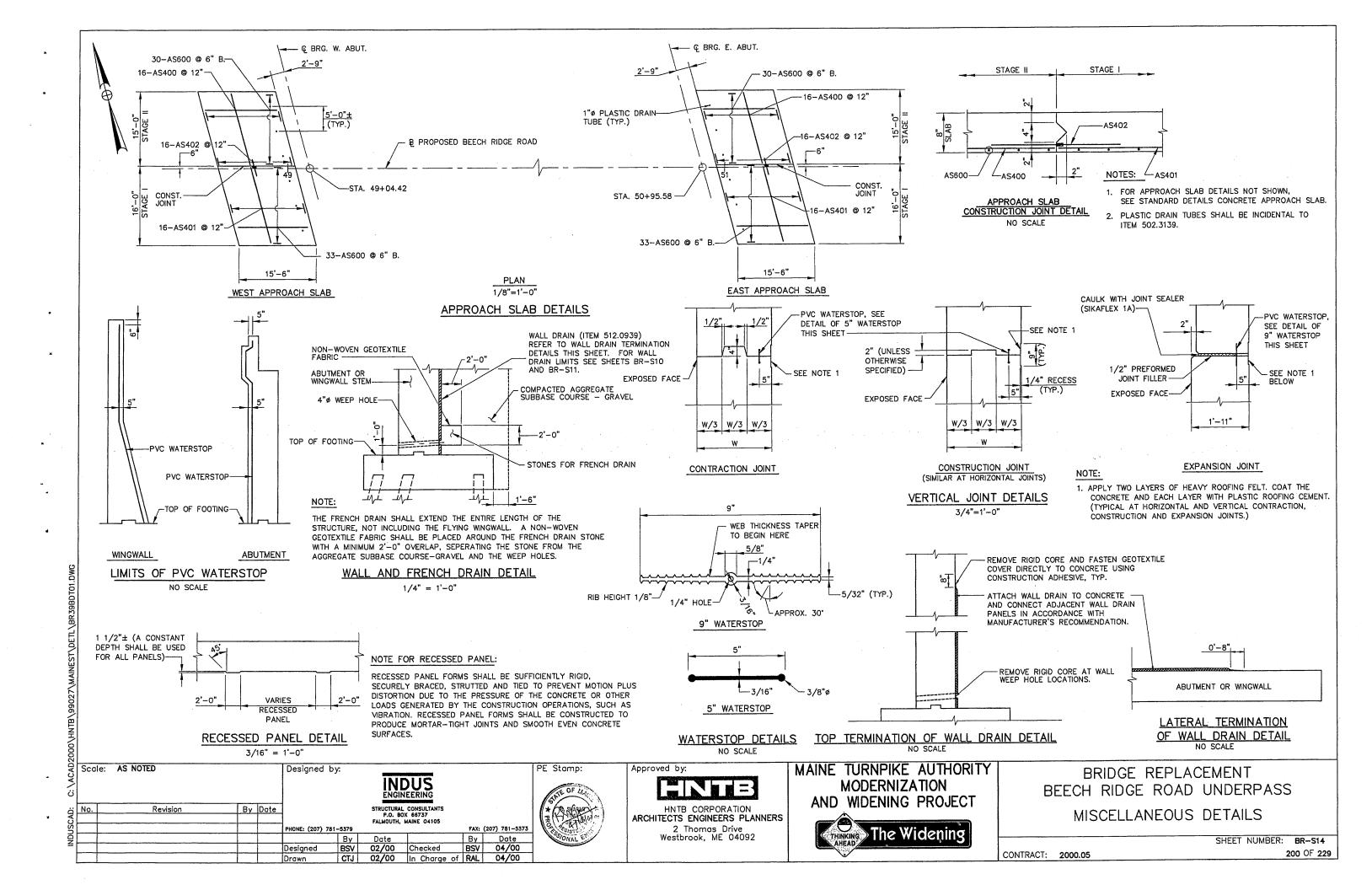


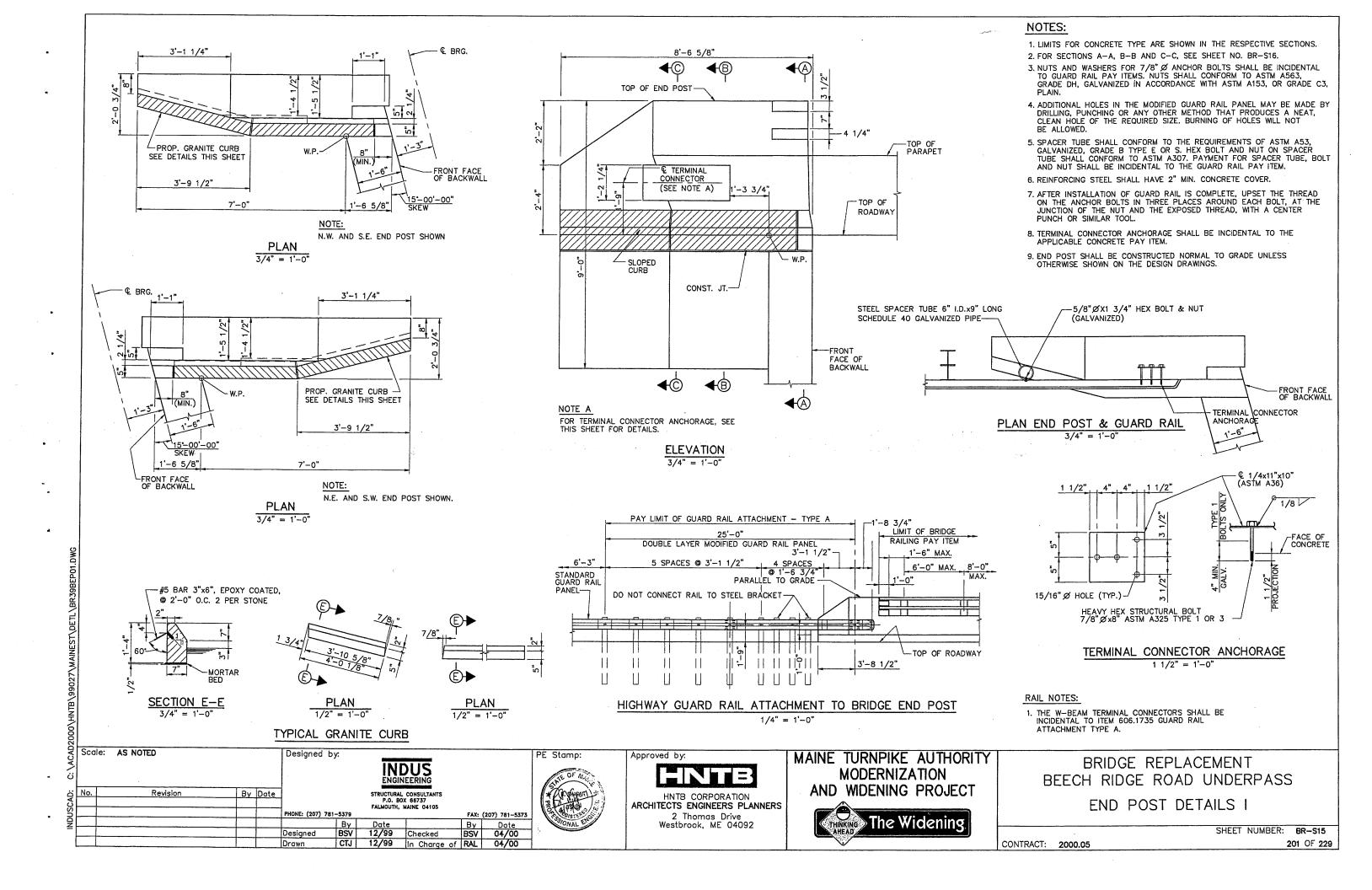


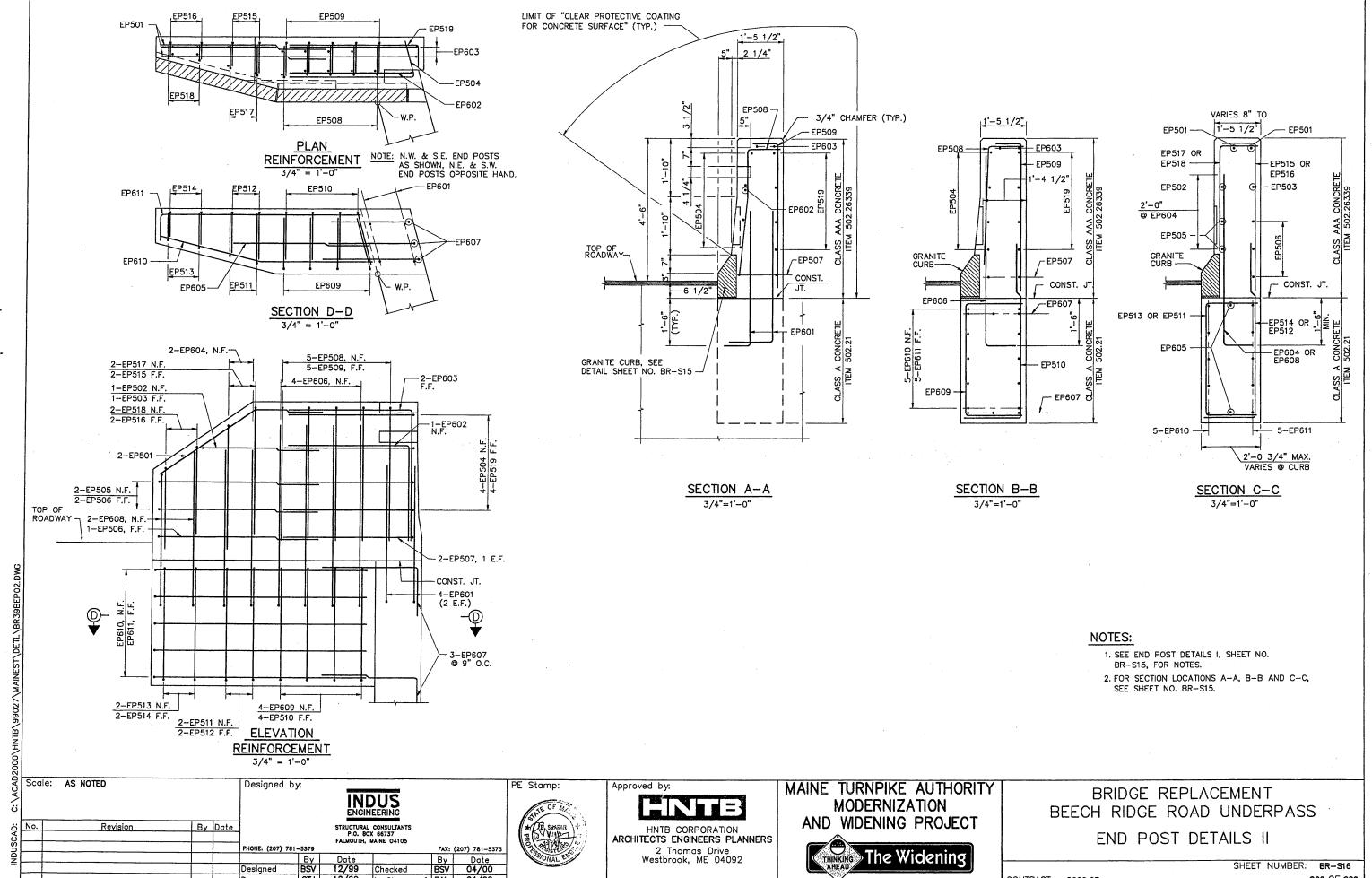








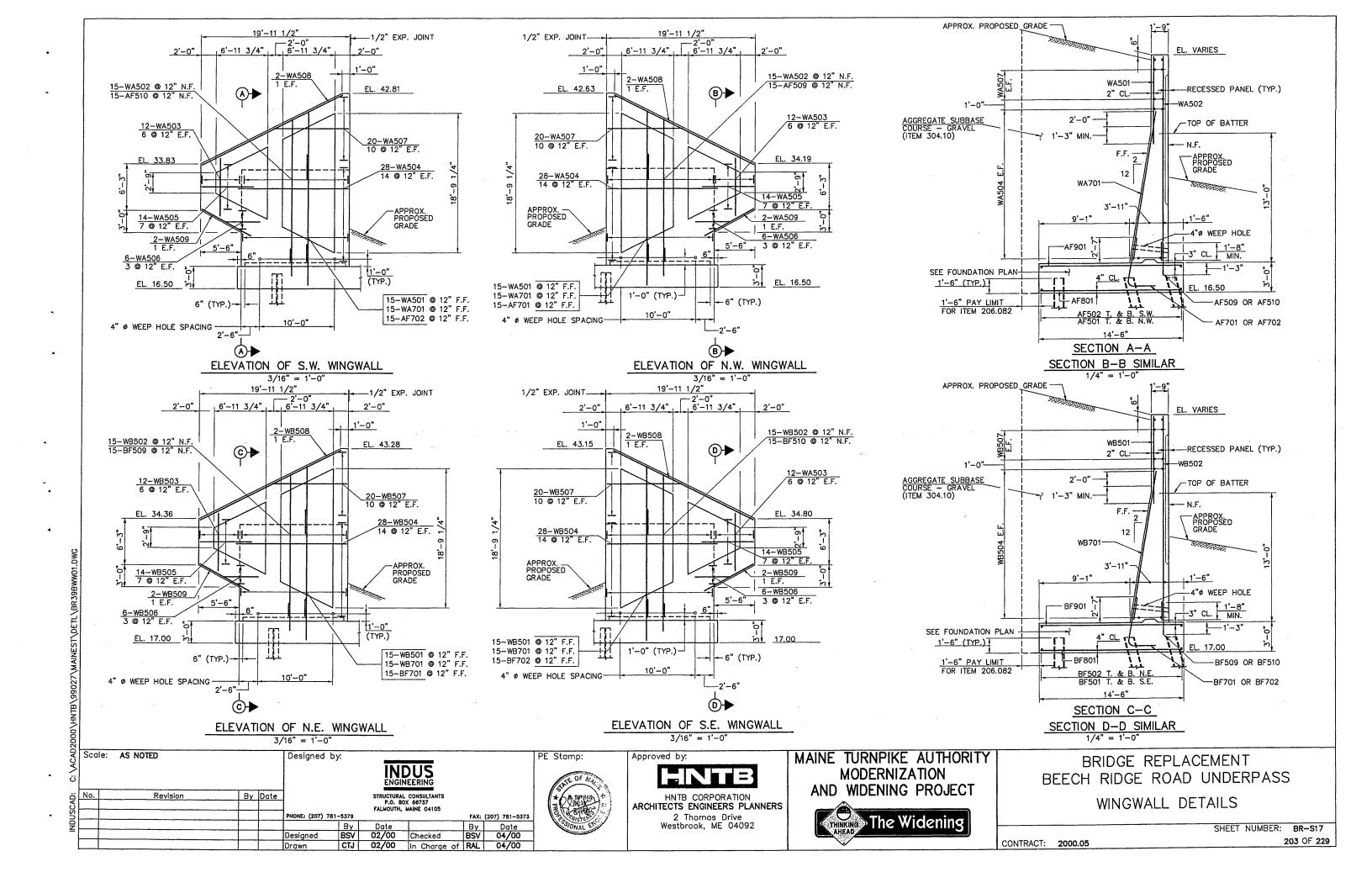


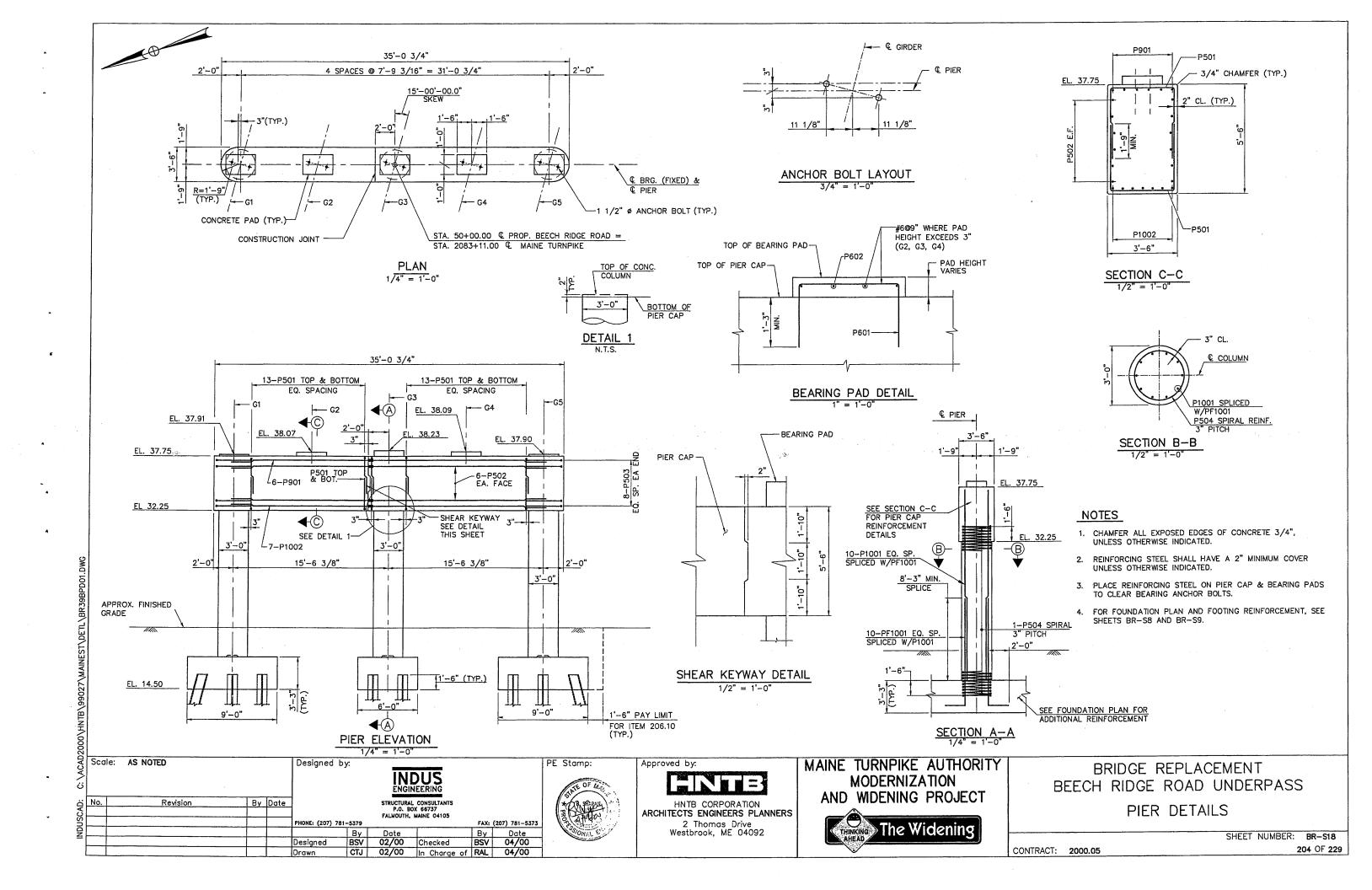


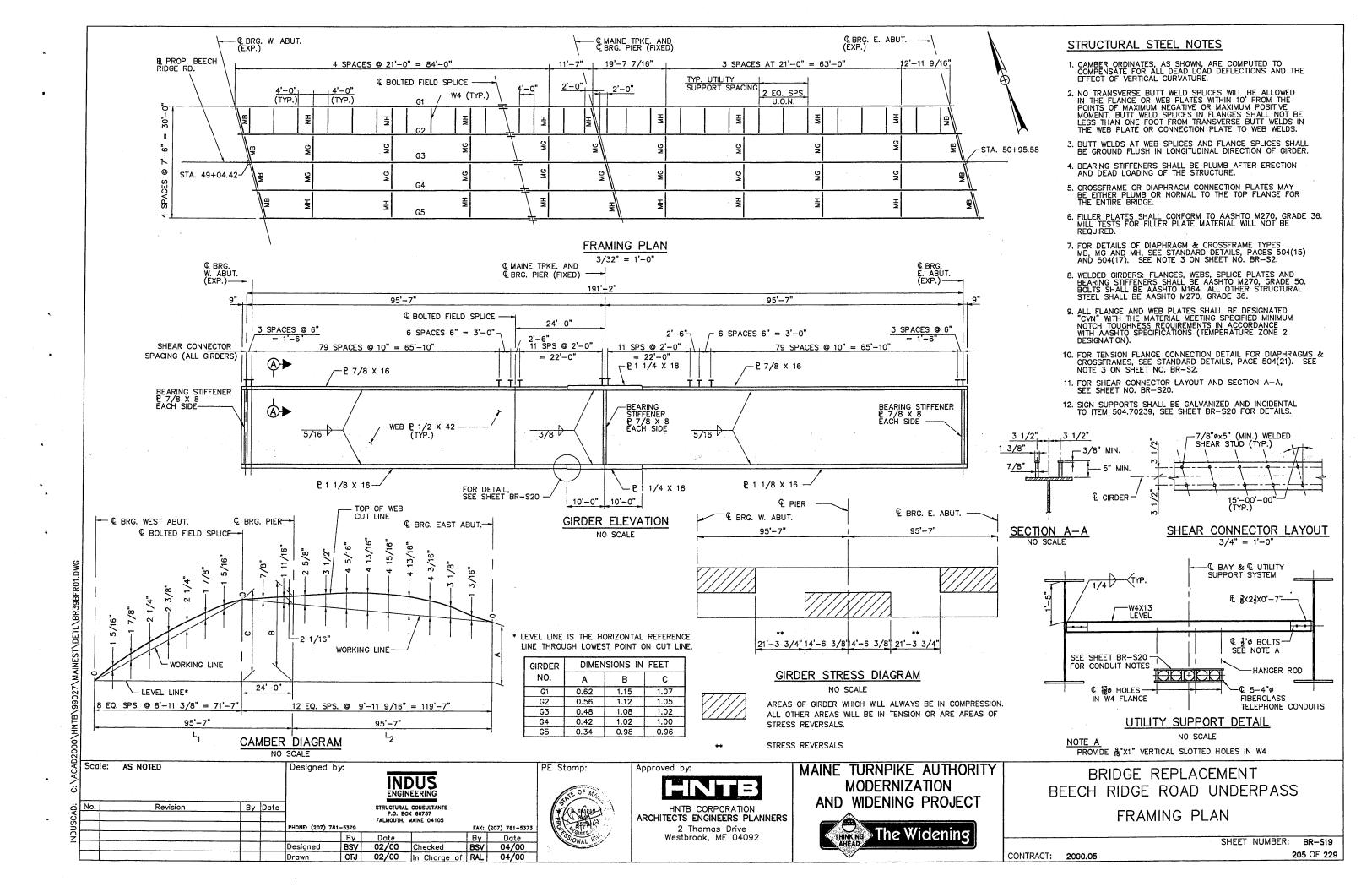
Date 12/99 Checked CTJ 12/99 In Charge of RAL 04/00

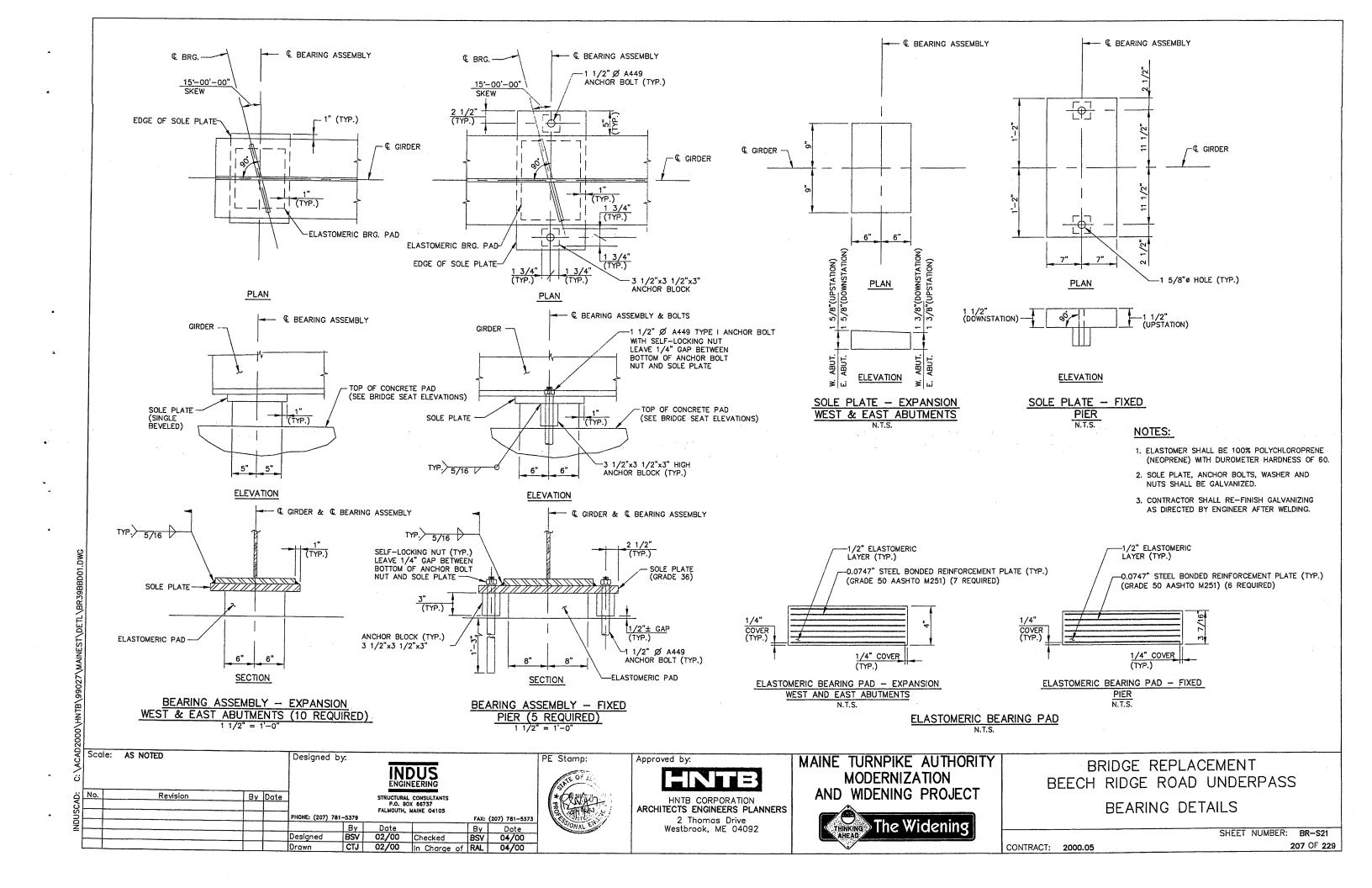


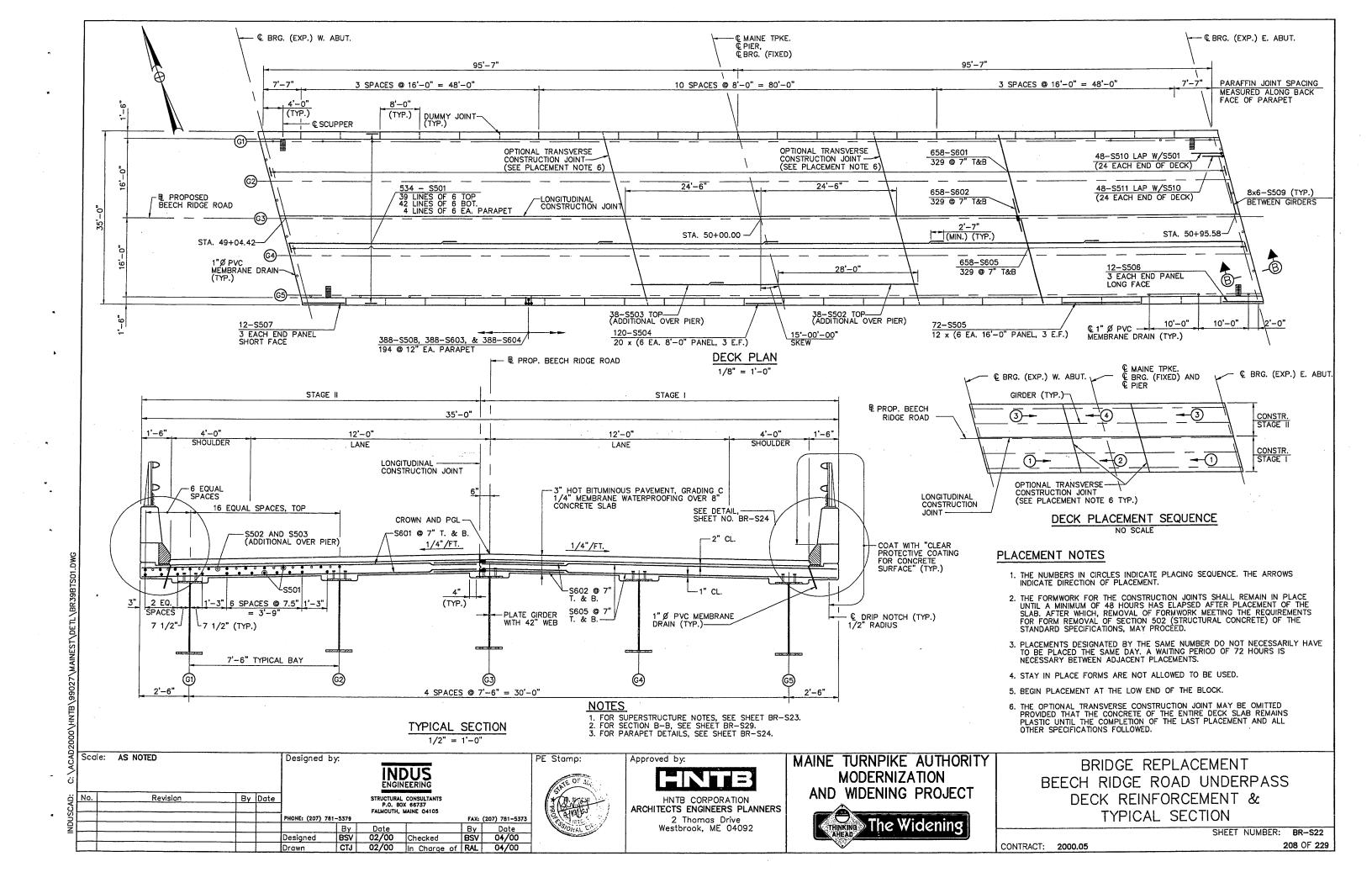
202 OF 229 CONTRACT: 2000.05

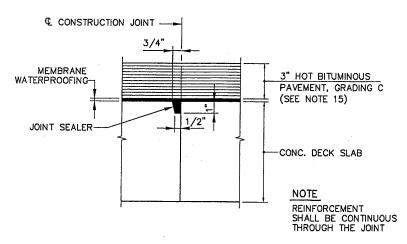


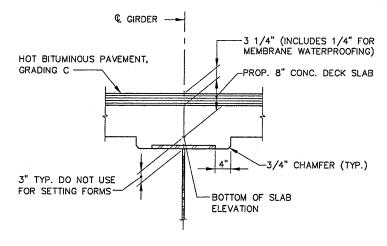


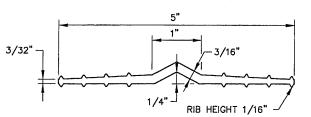












WATERSTOP FULL SIZE

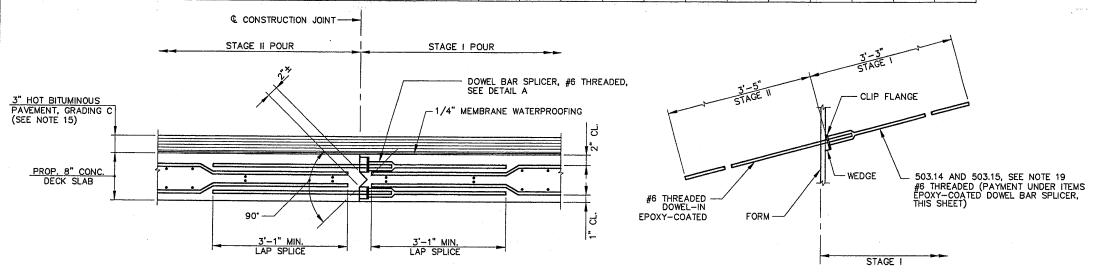
## TRANSVERSE CONSTRUCTION JOINT DETAIL

#### BLOCKING POINT DETAIL NOT TO SCALE

#### NOTE

TO COMPENSATE FOR DEAD LOAD DEFLECTIONS, AS WELL AS POSSIBLE IRREGULARITIES IN GIRDERS, SET THE BOTTOM OF SLAB ELEVATIONS AT THE POINTS INDICATED BEFORE ANY OF THE SLAB FORMWORK IS STARTED. SEE SUBSECTION 502.10(a) OF THE STANDARD SPECIFICATIONS.

BOTTOM OF SLAB ELEVATIONS AT BLOCKING POINTS																					
GIRDER	& BRG.	SPAN 1							C PIER	SPAN 2								€ BRG.			
NO.	W. ABUT.	.1L <sub>1</sub>	.2L <sub>1</sub>	.3L <sub>1</sub>	.4L1	.5L <sub>1</sub>	.6L <sub>1</sub>	.7L <sub>1</sub>	.8L <sub>1</sub>	.9L <sub>1</sub>	Œ BRG.	.1L 2	.2L 2	.3L <sub>2</sub>	.4L2	.5L 2	.6L 2	.7L <sub>2</sub>	.8L <sub>2</sub>	.9L <sub>2</sub>	E. ABUT.
G1	40.92	41.16	41.37	41.56	41.71	41.82	41.91	41.97	42.01	42.04	42.07	42.11	42.14	42.16	42.16	42.14	42.09	42.00	41.87	41.72	41.54
G2	41,11	41.35	41.56	41.75	41.89	42.00	42.09	42.14	42.18	42.20	42.23	42.26	42.30	42.31	42.31	42.28	42.23	42.13	42.01	41.85	41.67
G3	41.31	41.54	41.75	41.93	42.08	42.18	42.26	42.31	42.35	42.37	42.39	42.42	42.45	42.46	42.46	42.43	42.37	42.27	42.14	41.98	41.80
G4	41.19	41.42	41.63	41.80	41.94	42.05	42.12	42.17	42.21	42.22	42.25	42.27	42,29	42.30	42.29	42.26	42.19	42.09	41.96	41.80	41.61
G5	41.08	41.30	41.50	41.68	41.81	41.91	41.99	42.03	42.06	42.07	42.09	42.11	42,13	42.14	42.13	42.09	42.02	41.92	41.78	41.61	41.41



## LONGITUDINAL CONSTRUCTION JOINT DETAIL

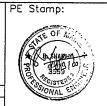
CTJ 02/00 In Charge of RAL 04/00

DETAIL A NOT TO SCALE

## SUPERSTRUCTURE NOTES

- CHAMFER ALL EXPOSED EDGES OF CONCRETE 3/4", UNLESS OTHERWISE NOTED.
- REINFORCING STEEL SHALL HAVE A MINIMUM COVER OF 2", UNLESS OTHERWISE NOTED.
- MORTAR FOR BEDDING AND FOR JOINTS IN THE GRANITE CURB SHALL CONTAIN A NON-SHRINK ADDITIVE.
- CLEAR PROTECTIVE COATING FOR CONCRETE SURFACE SHALL BE APPLIED TO THE FOLLOWING AREAS: PARAPET SURFACES, FASCIA DOWN TO DRIP NOTCH AND ALL EXPOSED CONCRETE SURFACES ON THE END POSTS.
- 5. FOR 2-BAR ALUMINUM BRIDGE RAIL DETAILS, SEE SHEET BR-S26.
- IF THE SLAB PLACEMENT HAS TO BE TERMINATED, THE TERMINATION POINT MUST BE AT THE POINTS INDICATED IN THE PLACEMENT DETAILS, SHOWN ON SHEET BR-S22.
- ADJUST REINFORCING STEEL TO FIT AROUND THE DRAINS IN A MANNER APPROVED OF BY THE ENGINEER. DO NOT CUT TRANSVERSE REINFORCING BARS. CUT LONGITUDINAL REINFORCING STEEL IN THE FIELD TO SUIT, THEN EPOXY COAT CUT ENDS.
- 8. FOR REINFORCING STEEL SCHEDULE, SEE SHEET NO. BR-S37.
- FOR PVC MEMBRANE DRAIN AND SCUPPER DETAILS, SEE SHEET NOS. BR-S24 AND BR-S25 RESPECTIVELY.
- 10. FOR SLAB DETAILS, SEE SHEET NOS. BR-S22, BRS-23 AND BR-S24.
- 11. FOR ROADWAY EXPANSION JOINT DETAILS, SEE SHEET NOS. BR-S27, BR-S28 AND BR-S29.
- THE CONCRETE DECK SHALL BE GIVEN A SMOOTH BULL FLOAT OR WOOD FLOAT FINISH.
- 13. FOR SECTION B-B, (LOCATION SHOWN ON SHEET NO. BR-S22) SEE SHEET NO. BR-S29.
- GRANITE CURB JOINTS SHALL LINE UP WITH PARAFFIN AND DUMMY JOINTS.
- BITUMINOUS PAVEMENT SHALL BE PLACED IN TWO (2) 1 1/2 INCH
- 16. FOR RAIL POST SPACING, SEE SHEET NO. BR-S24.
- 17. ALL BRIDGE PARAPET CONCRETE, INCLUDING INSIDE FACE, TOP AND OUTSIDE FACE, END POSTS AND DECK FASCIA SHALL HAVE A RUBBED FINISHED PRIOR TO THE APPLICATION OF THE CLEAR PROTECTIVE COATING FOR CONCRETE SURFACE.
- 18. THE AUTHORITY'S PERSONNEL SHALL PROFILE THE TOP OF ALL GIRDERS BEFORE THE FORMWORK IS STARTED AND SHALL SUPPLY THE CONTRACTOR WITH FINAL BOTTOM OF SLAB ELEVATIONS. TEN (10) DAYS SHALL BE ALLOWED FOR THE BLOCKING POINT TURN AROUND TIME.
- 19. ONLY DOWEL BAR SPLICERS SHALL BE USED WITHIN CONCRETE DECK SLAB FOR STAGE I CONSTRUCTION AT THE LONGITUDINAL CONSTRUCTION JOINT. DOWEL-IN BARS SHALL THEN BE USED WITHIN CONCRETE DECK SLAB FOR STAGE II CONSTRUCTION.

Scale:	AS NOTED			Designed	by:					TPE
						N ENGI	DUS NEERING			
No.	Revision	Ву	Date	]			L CONSULTANTS			
							0X 66737 MAINE 04105			[
			<u> </u>	PHONE: (207) 7	81-5379			FAX:	(207) 781-5373	\
			<u> </u>		Ву	Date		Ву	Date	7
				Designed	BSV	02/00	Checked	BSV	04/00	1





ARCHITECTS ENGINEERS PLANNERS 2 Thomas Drive Westbrook, ME 04092

MAINE TURNPIKE AUTHORITY MODERNIZATION AND WIDENING PROJECT

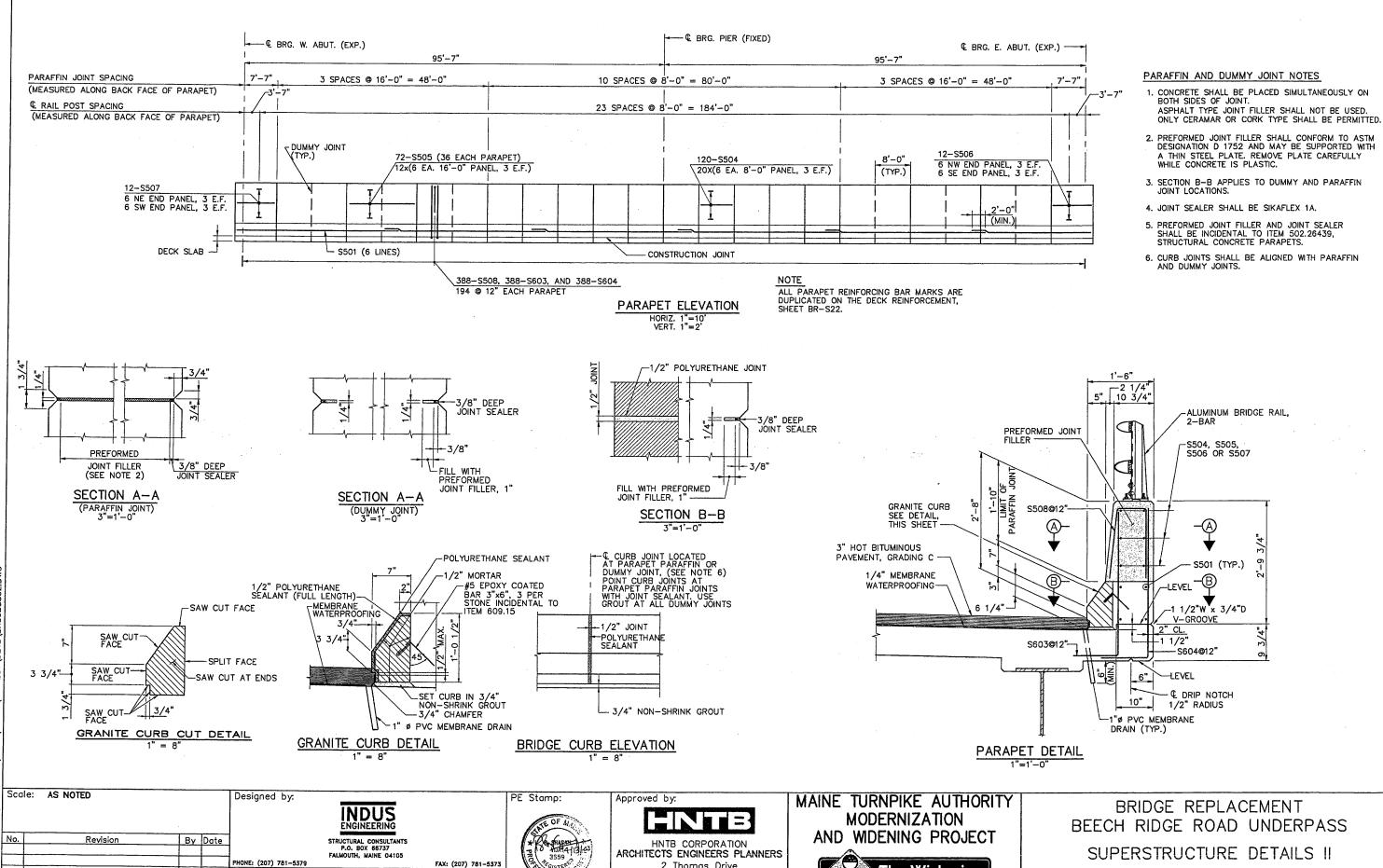


BRIDGE REPLACEMENT BEECH RIDGE ROAD UNDERPASS SUPERSTRUCTURE DETAILS I

SHEET NUMBER: BR-S23

CONTRACT: 2000.05

209 OF 229



Date
02/00 Checked

02/00 In Charge of RAL 04/00

Designed

Drawn

CTJ

BSV 04/00

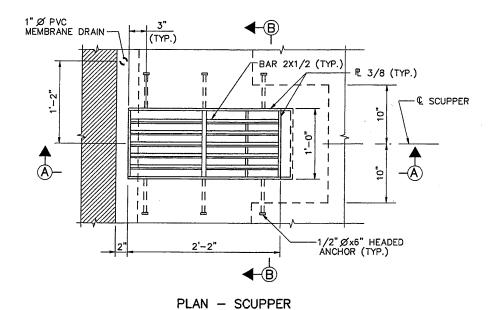
2 Thomas Drive Westbrook, ME 04092

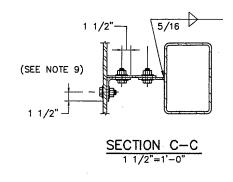


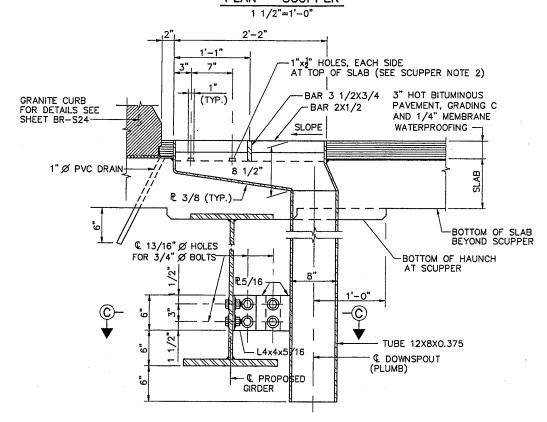
SHEET NUMBER: BR-S24

CONTRACT: 2000.05

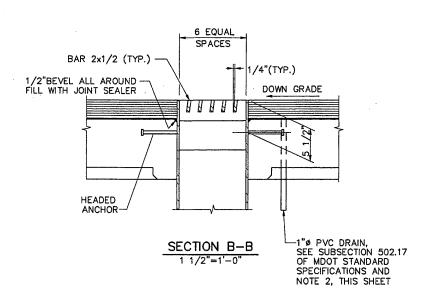
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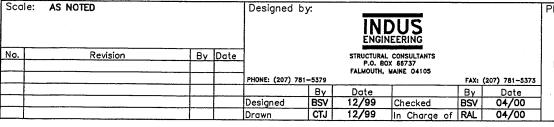


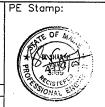
SECTION A-A
1 1/2"=1'-0"



### SCUPPER NOTES

- ALL WELDS SHALL BE CONTINUOUS 1/4" FILLET WELDS, EXCEPT AS NOTED.
- DO NOT COVER DECK DRAINS WITH MEMBRANE WATERPROOFING. DEPRESS DRAINS 1/2" BELOW TOP OF SLAB, PROVIDE 23 GAUGE GALVANIZED SCREENS (1/4" MESH) OVER DRAINS.
- 3. SCUPPERS SHALL BE GALVANIZED AFTER FABRICATION. GALVANIZING SHALL CONFORM TO ASTM A153.
- 4. ALL PLATES SHALL CONFORM TO AASHTO M270, GRADE 36.
- 5. STRUCTURAL TUBES SHALL CONFORM TO ASTM A501.
- 6. PAYMENT FOR SCUPPERS, PVC DRAINS AND SCREENS SHALL BE INCIDENTAL TO ITEM NO. 502.26339.
- 7. FOR LOCATION OF SCUPPERS AND 1" Ø DRAINS, SEE SHEET NO. BR-S22.
- 8. FIELD REPAIR GALVANIZING WITH ZINC RICH PAINT ACCORDING TO SECTION 506 OF THE SPECIAL PROVISIONS. (PAYMENT INCIDENTAL TO ITEM NO. 502.26339).
- 9. HOLES THROUGH WEB SHALL BE FIELD DRILLED, THEN PAINTED TO THE SATISFACTION OF THE ENGINEER PRIOR TO INSTALLING BOLTS.





Approved by:

HNTB CORPORATION

ARCHITECTS ENGINEERS PLANNERS

2 Thomas Drive

Westbrook, ME 04092

MAINE TURNPIKE AUTHORITY

MODERNIZATION

AND WIDENING PROJECT

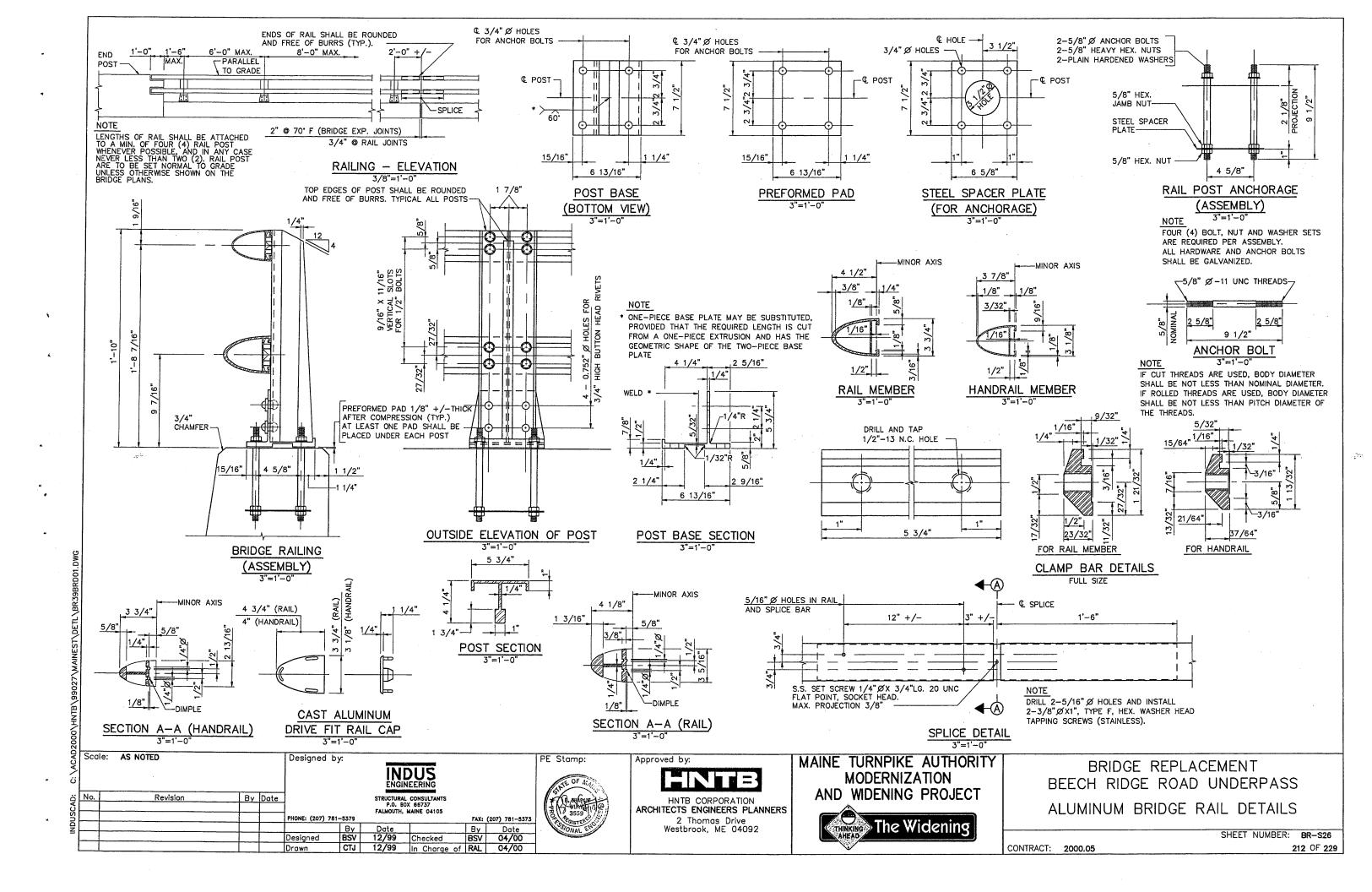


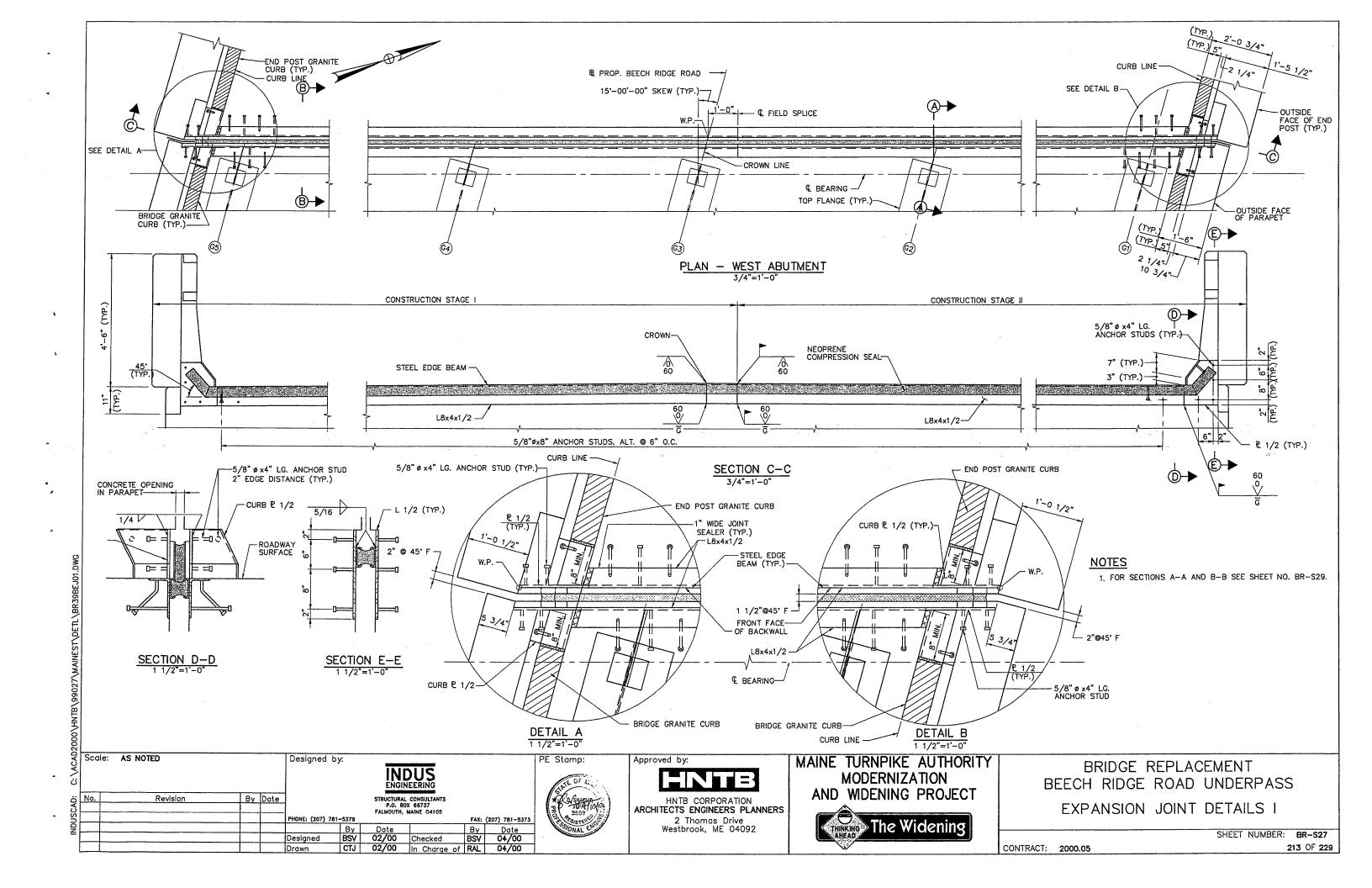
BRIDGE REPLACEMENT
BEECH RIDGE ROAD UNDERPASS
SCUPPER DETAILS

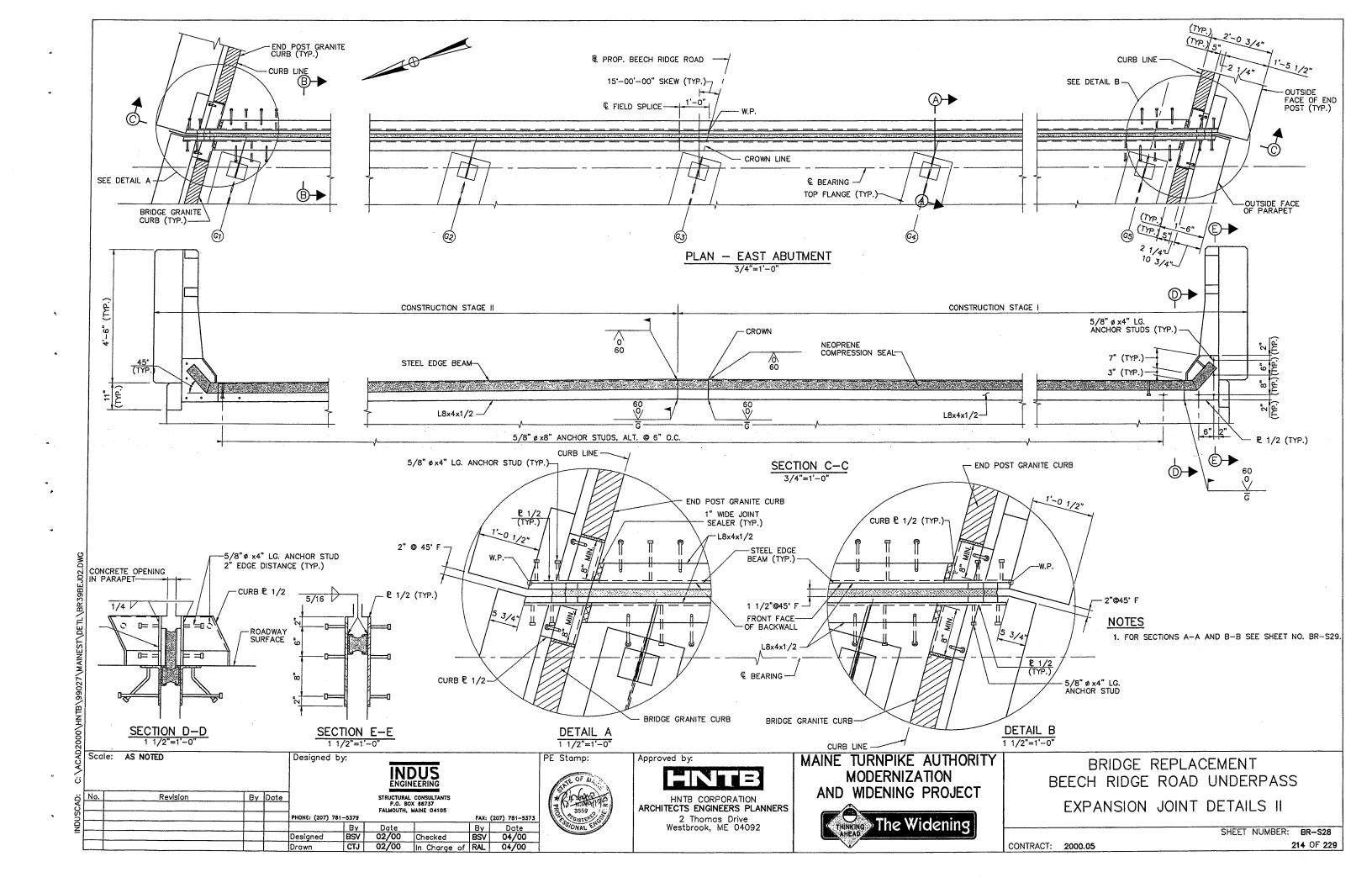
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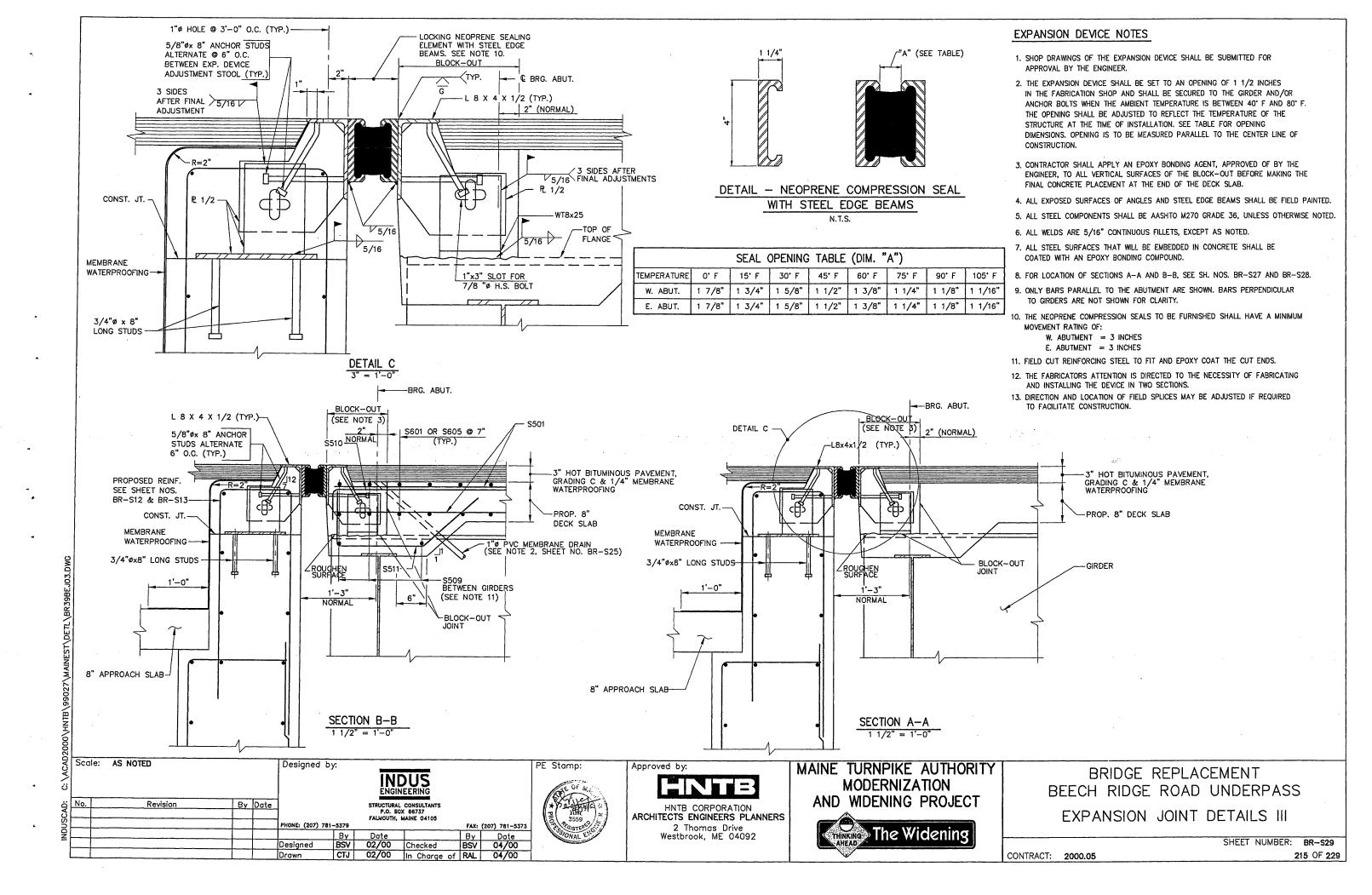
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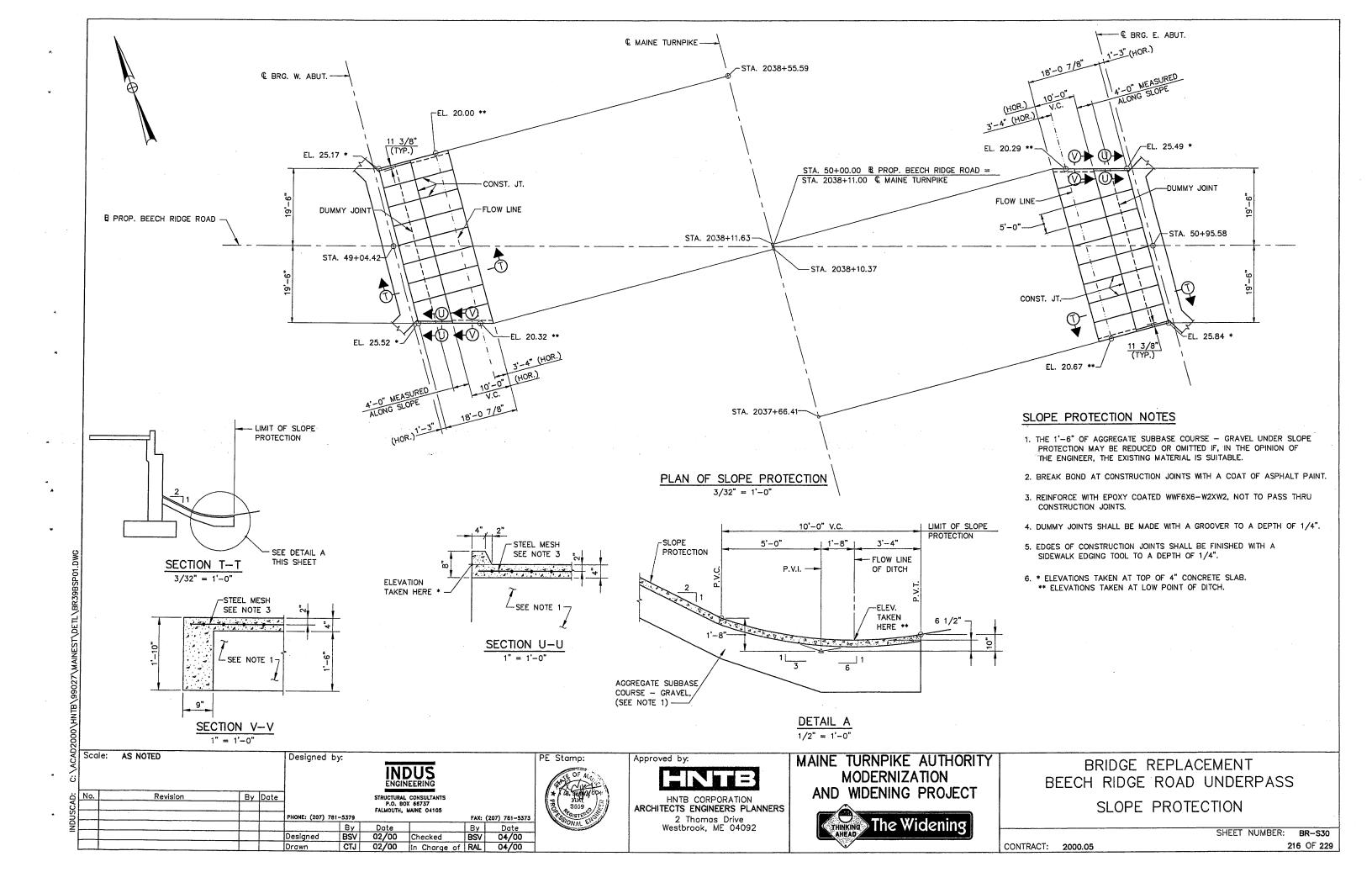
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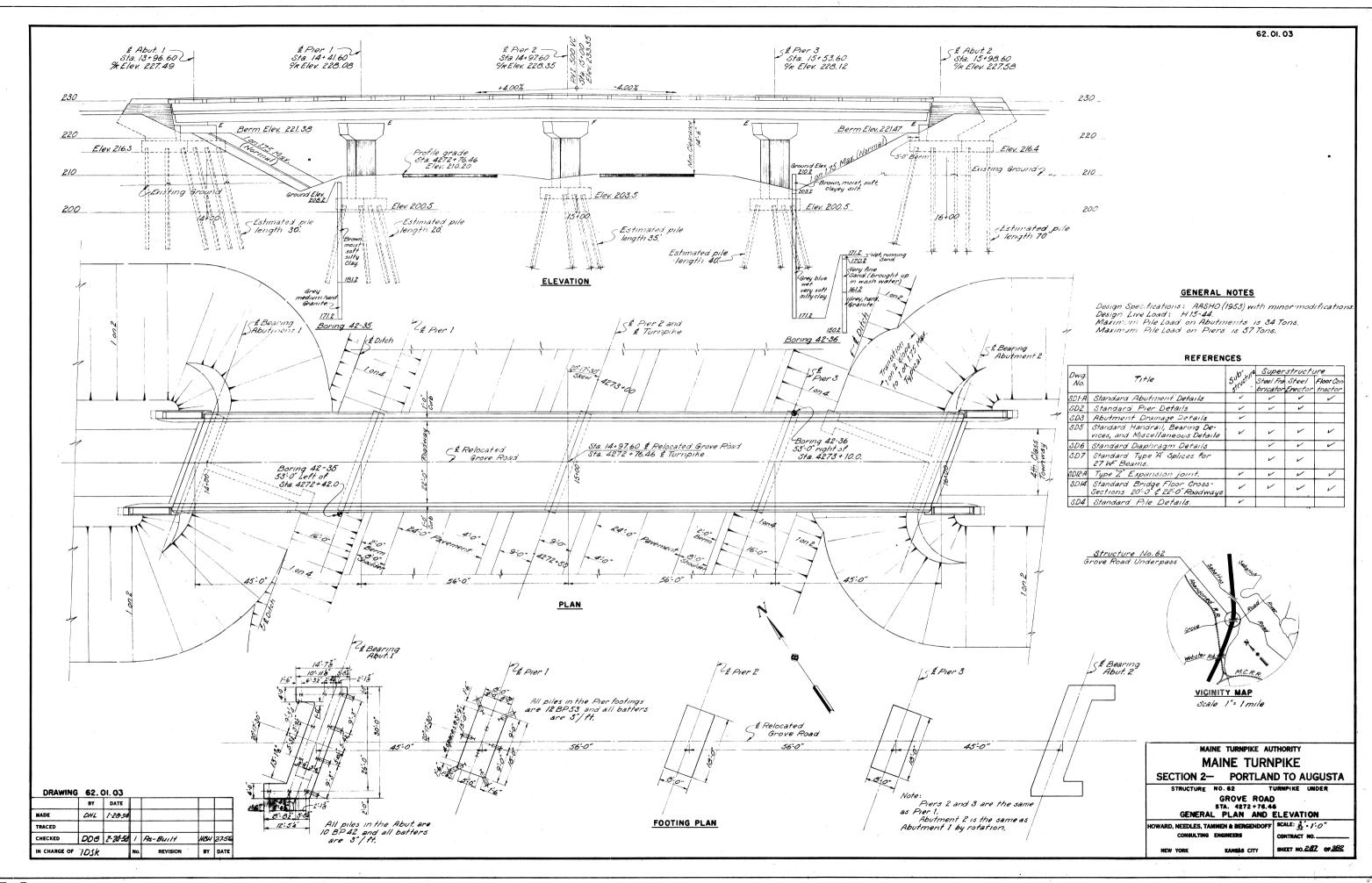




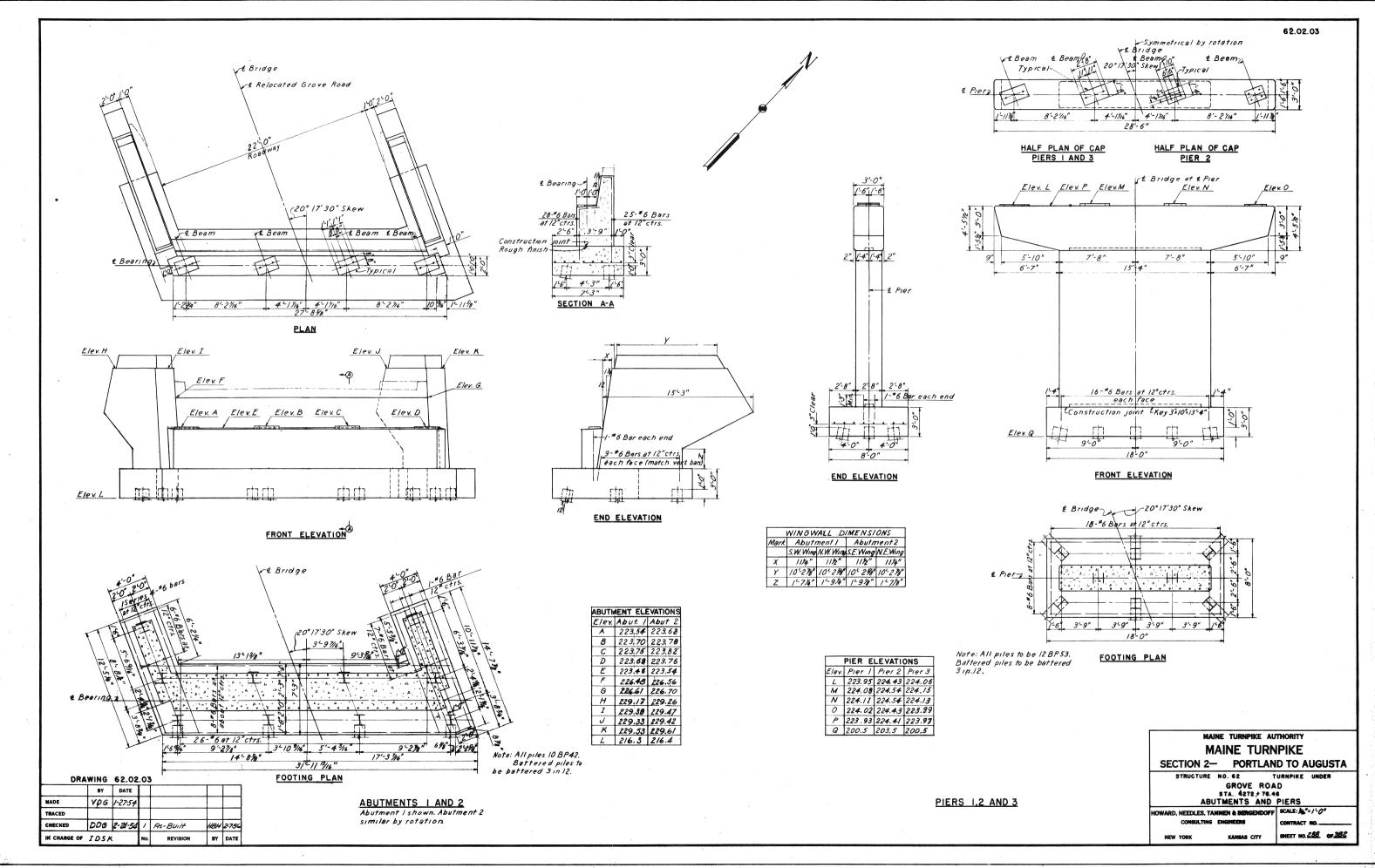


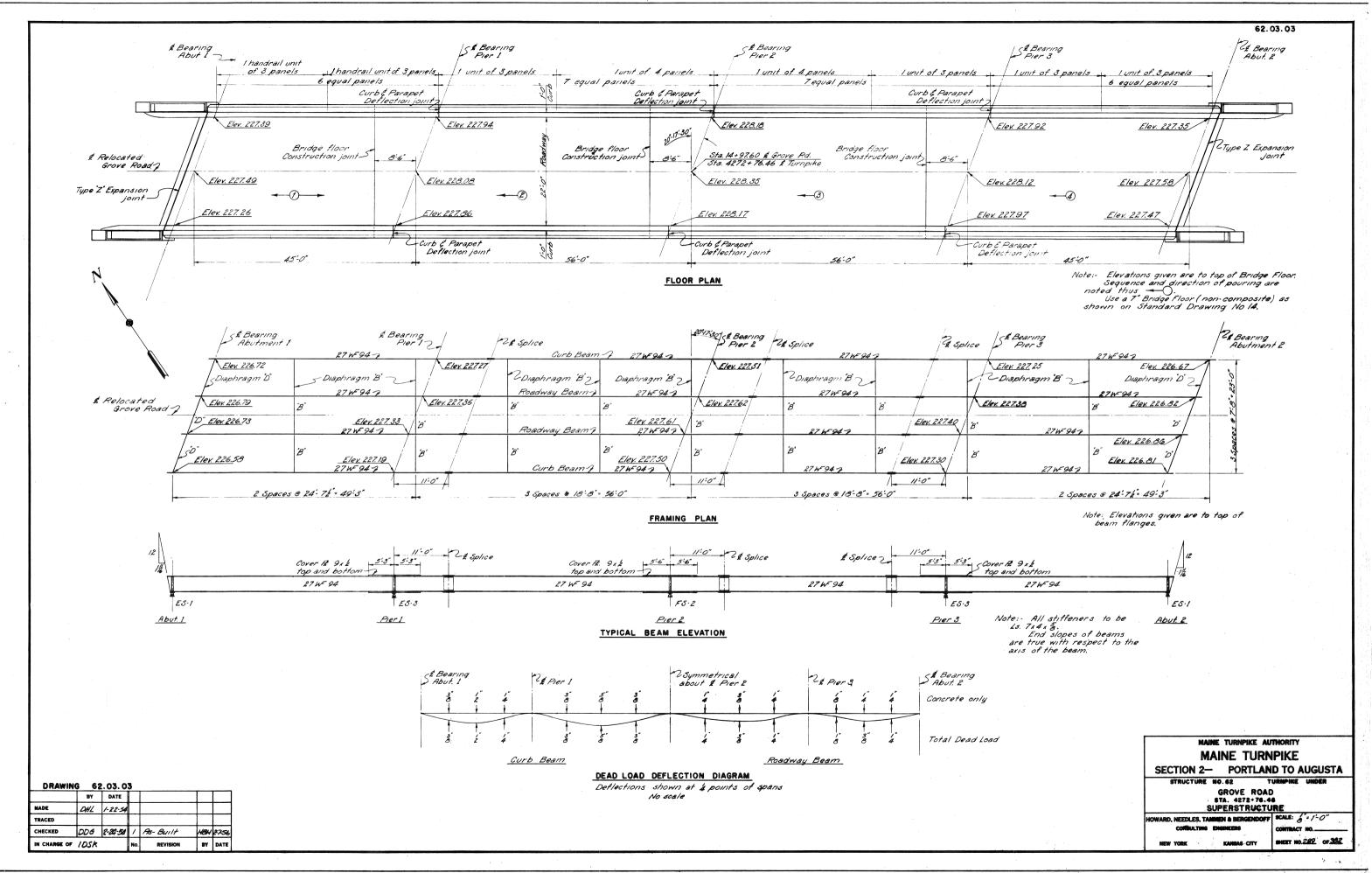


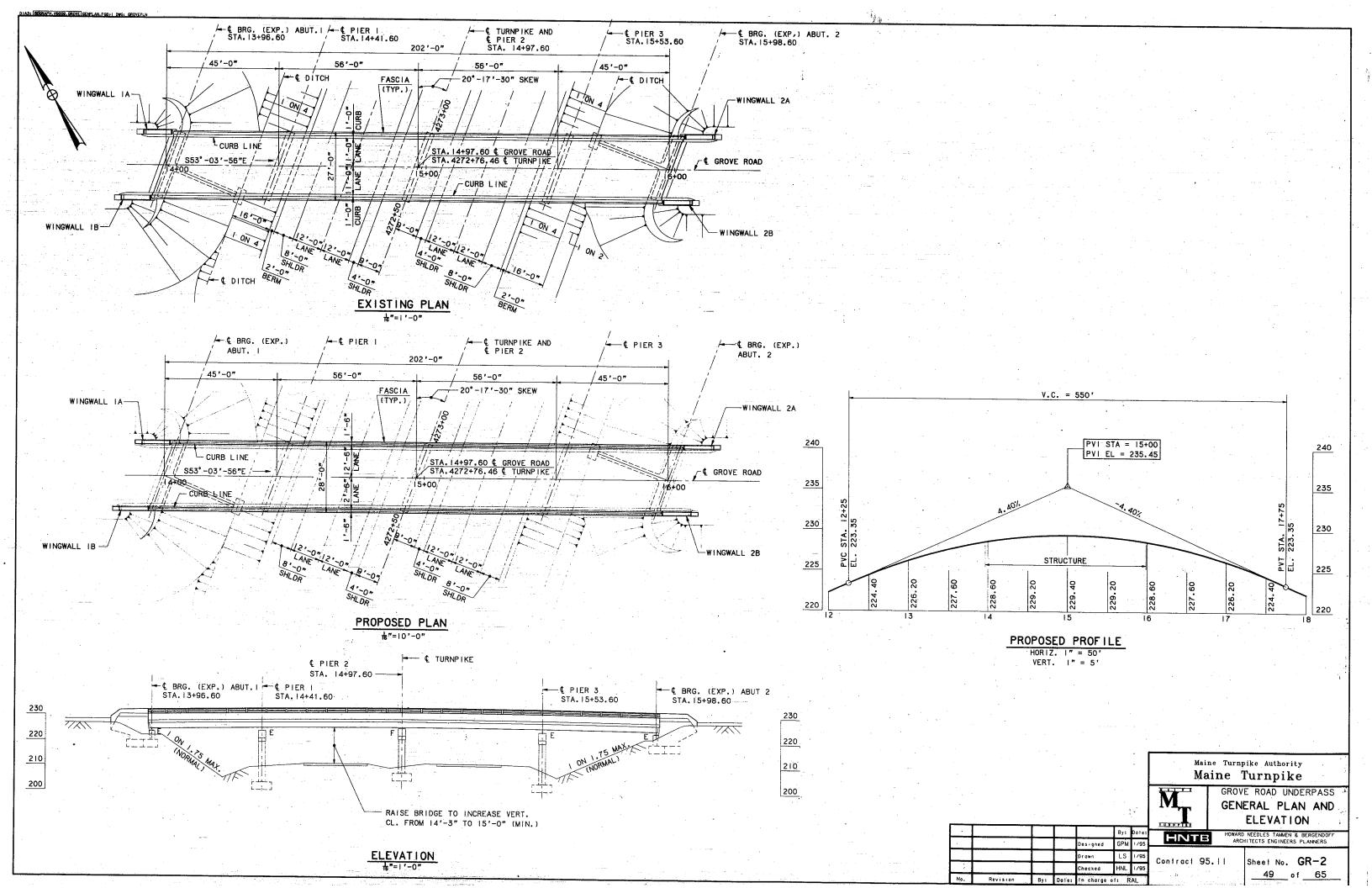


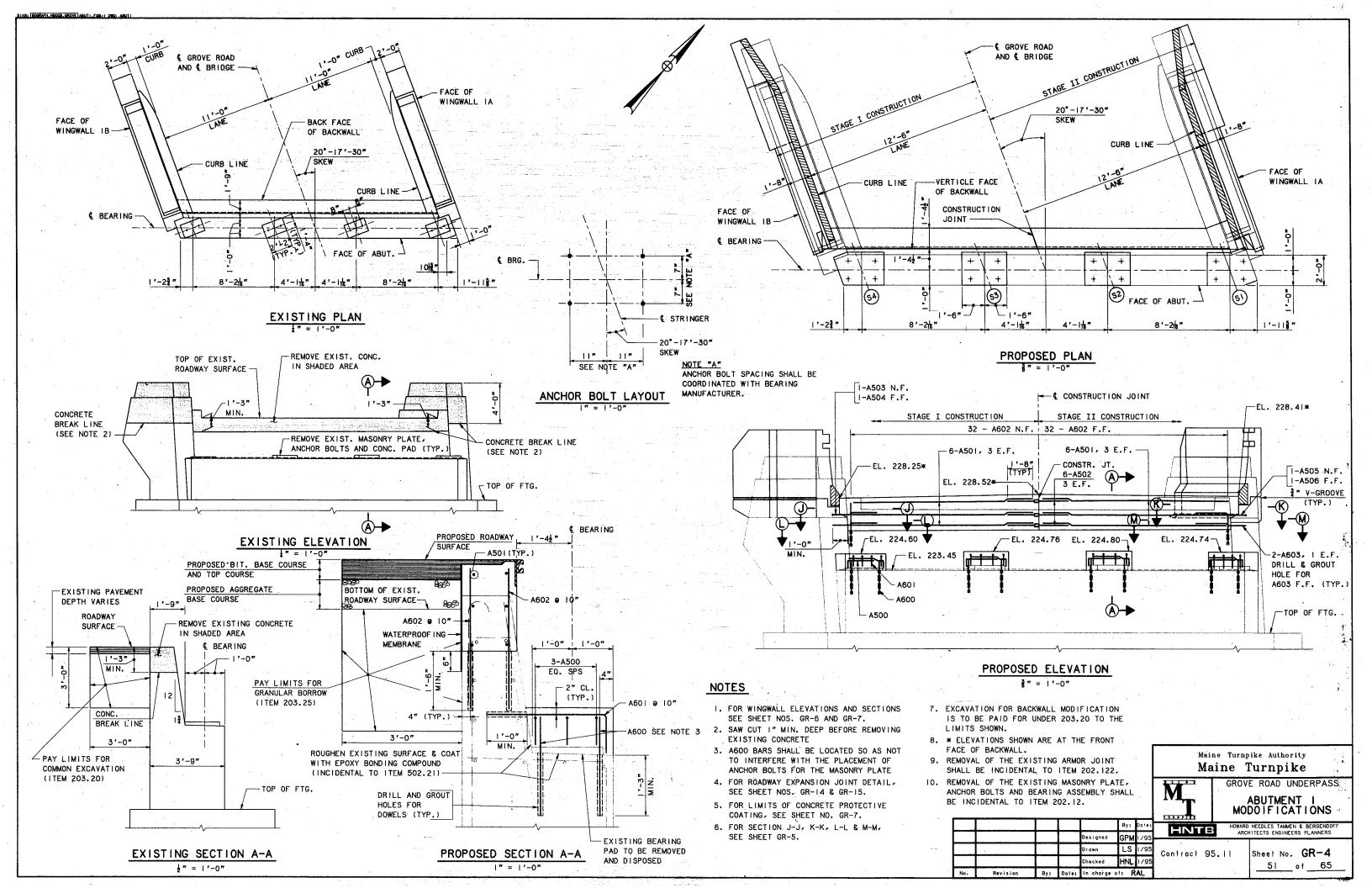


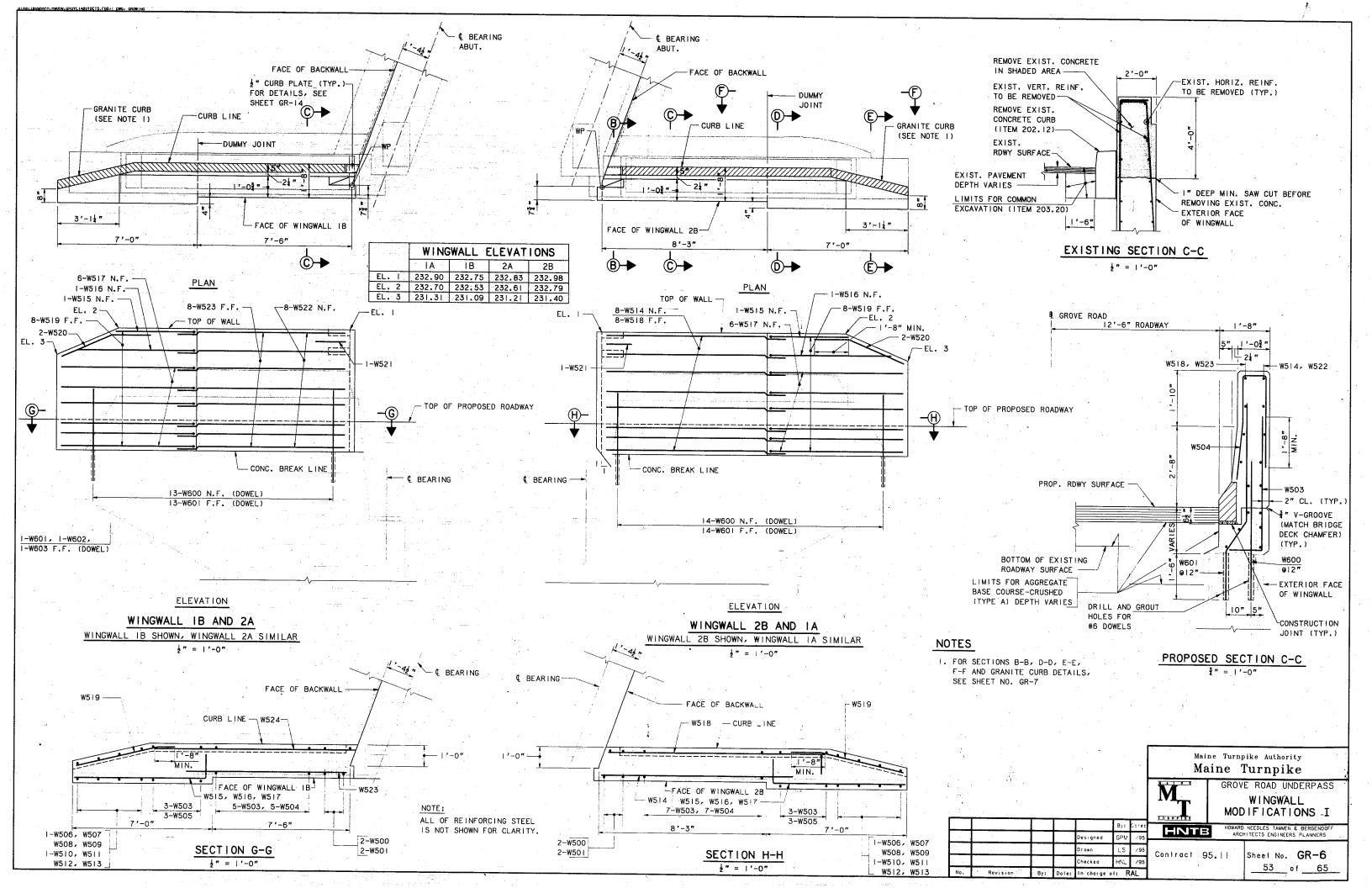
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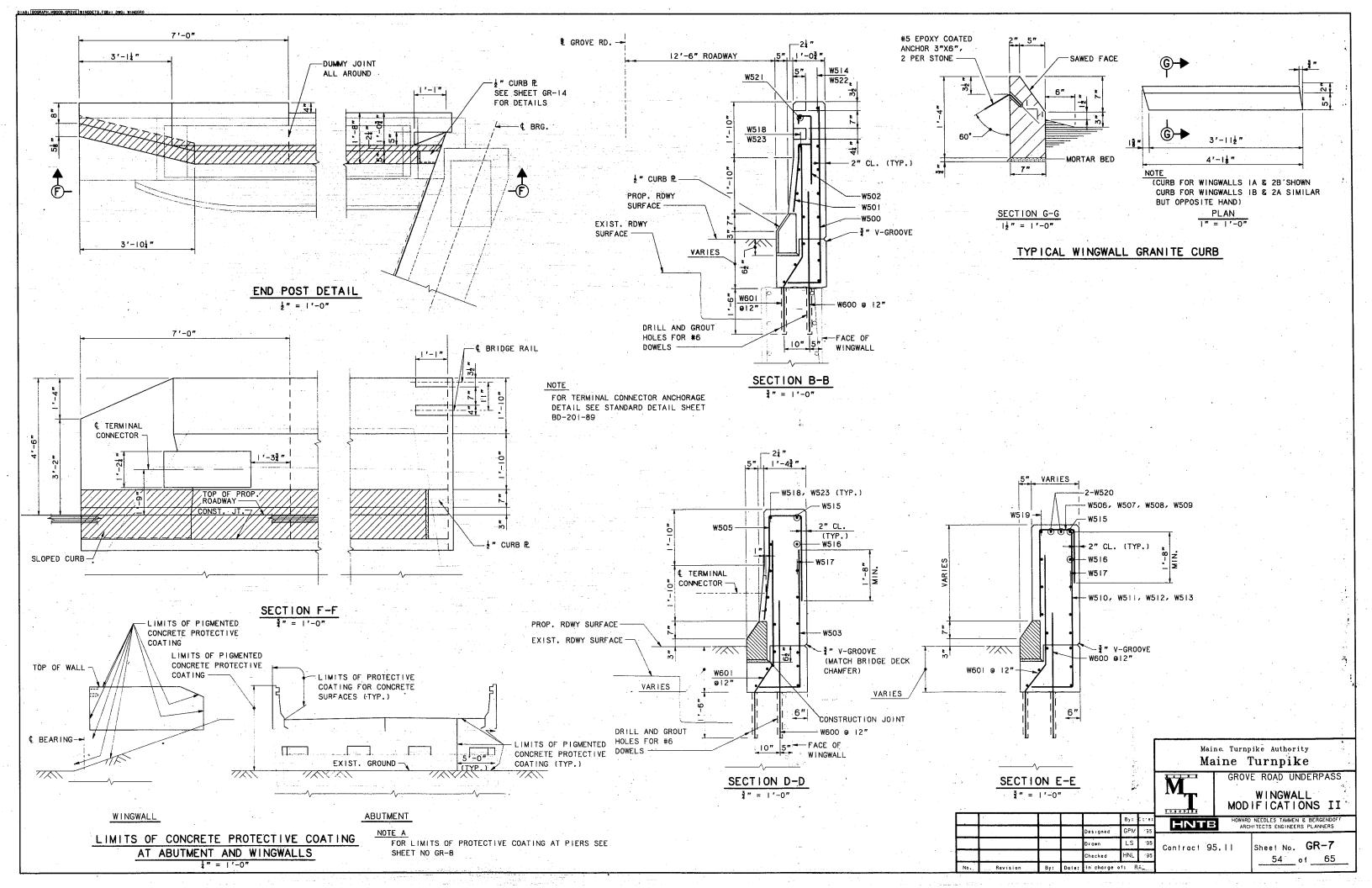


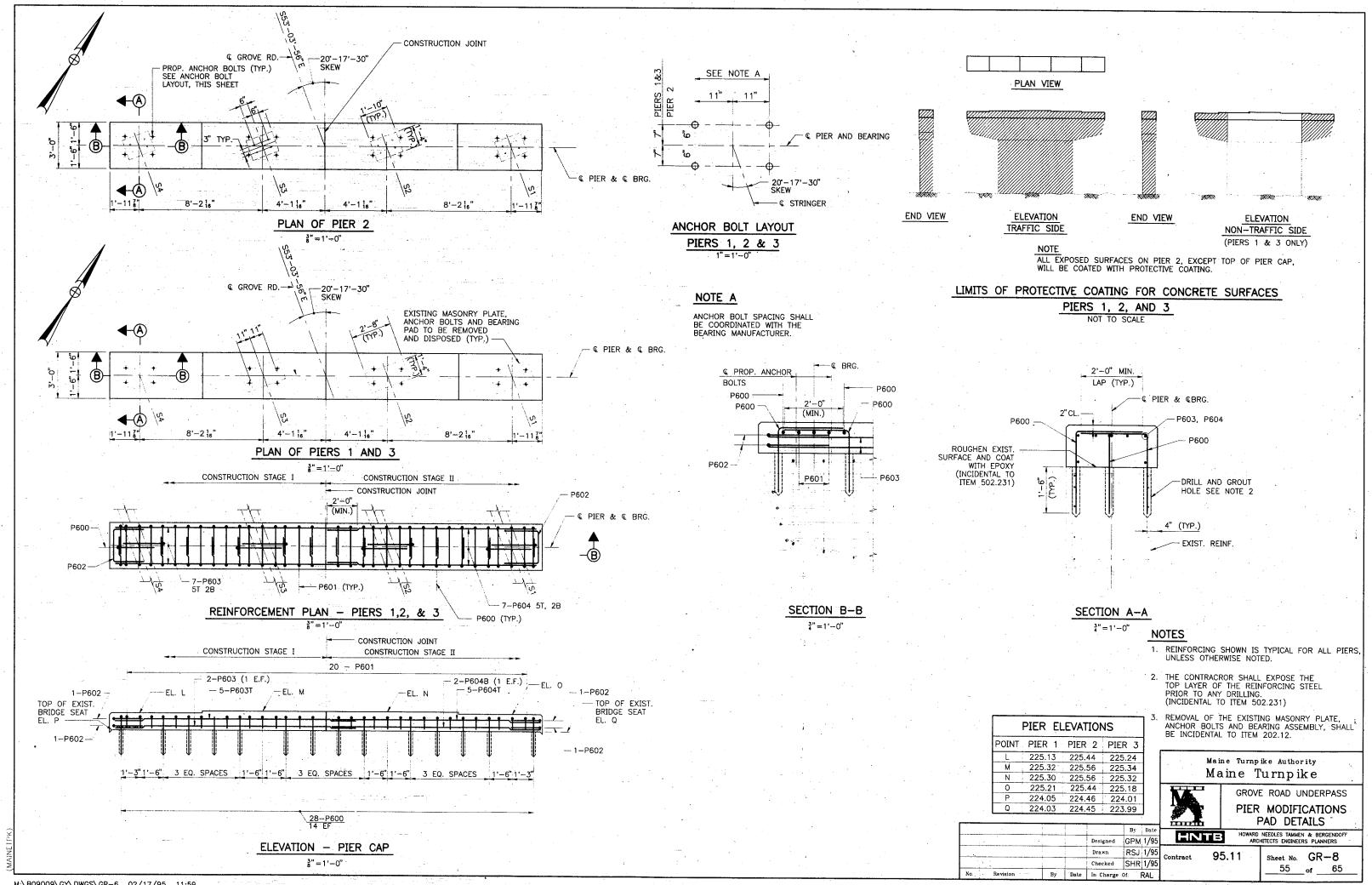




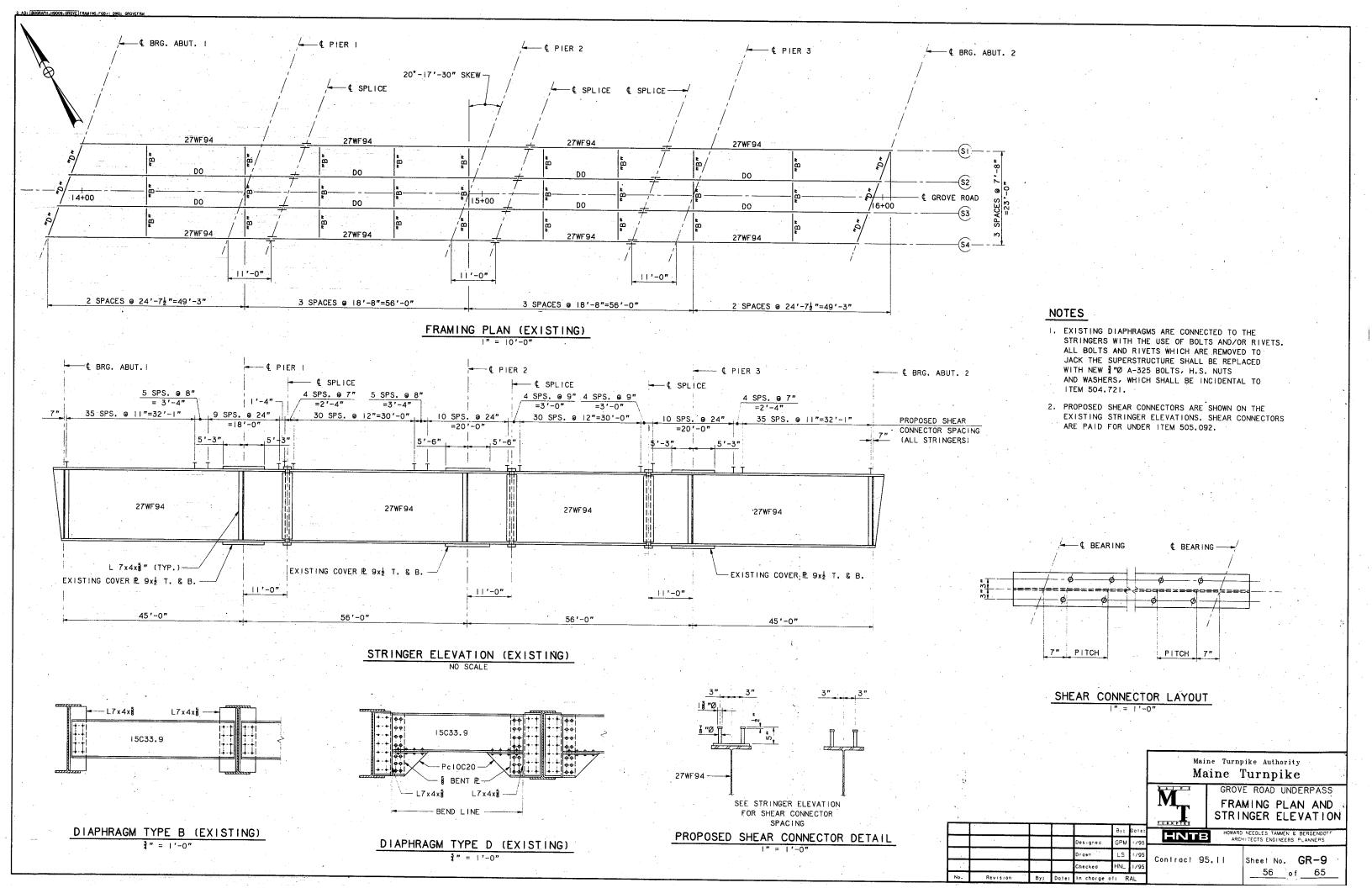


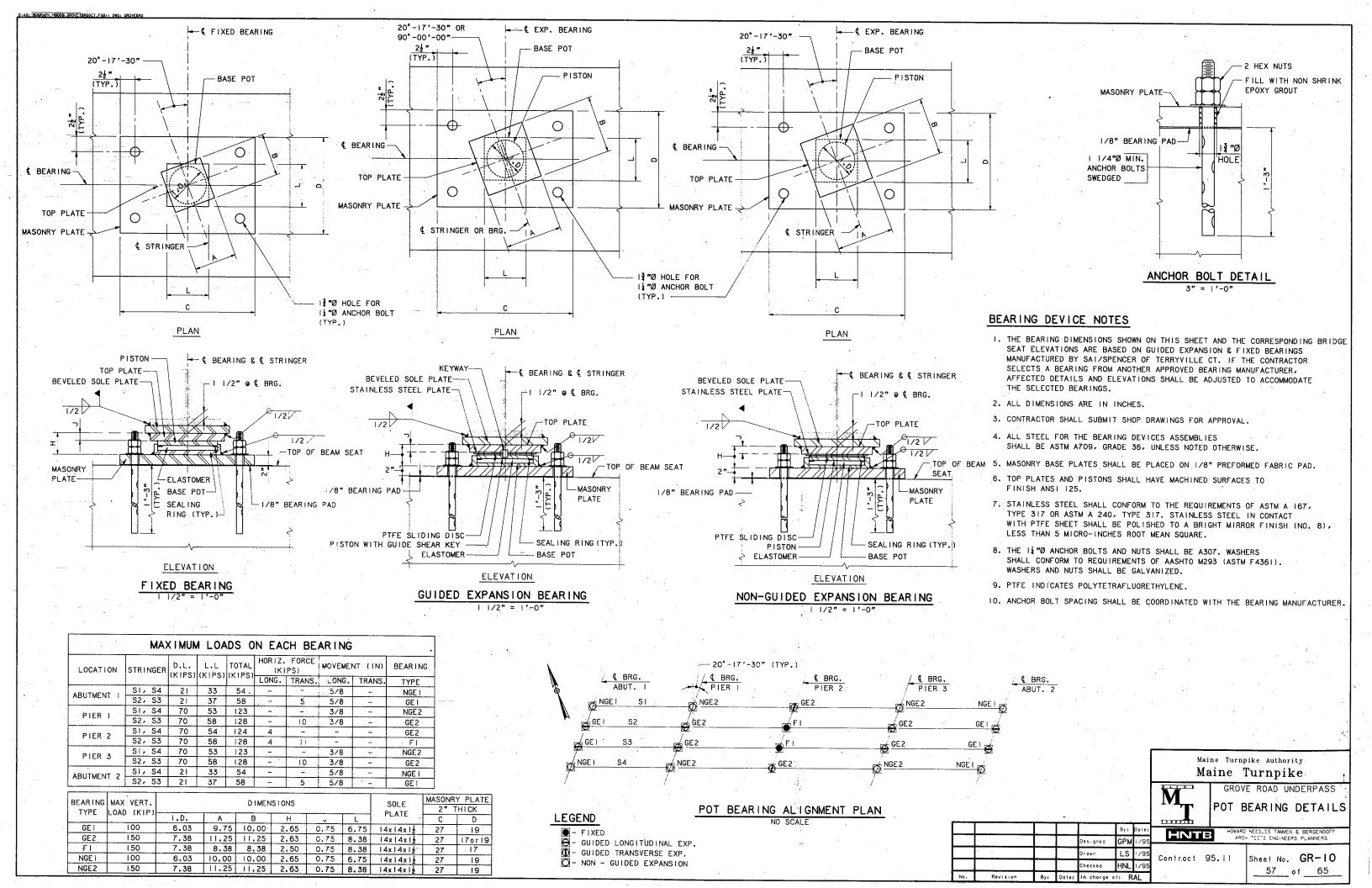


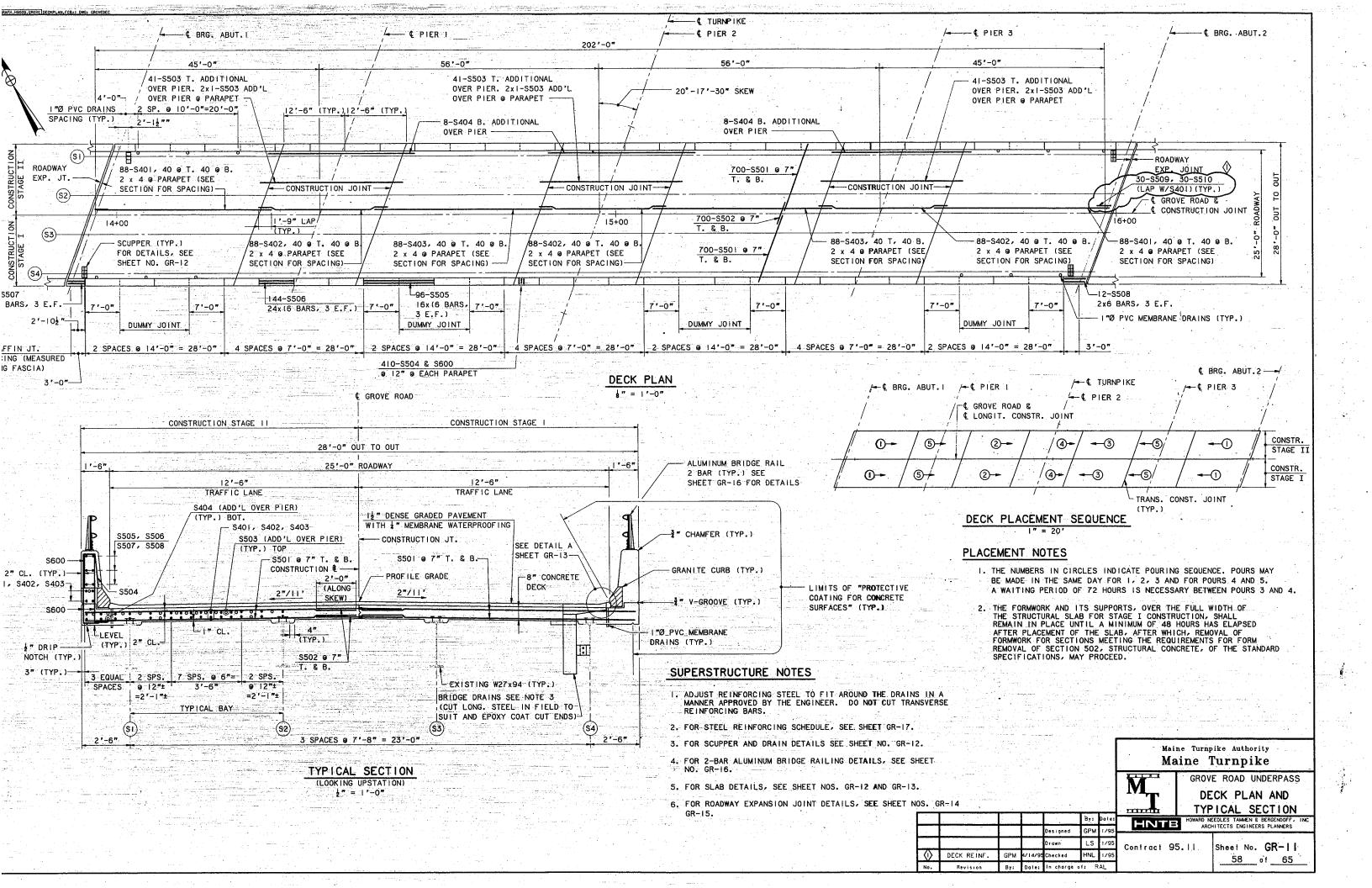


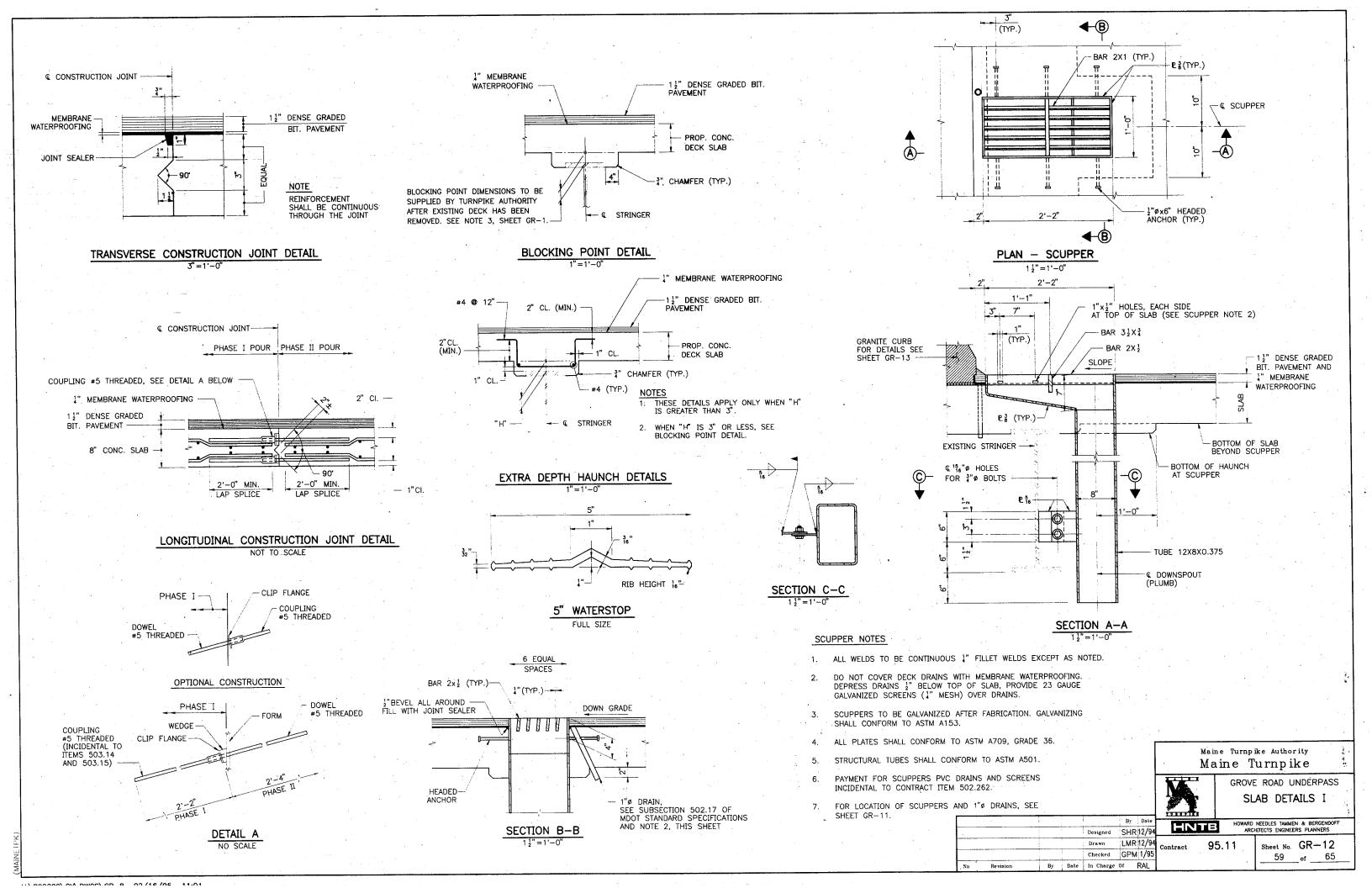


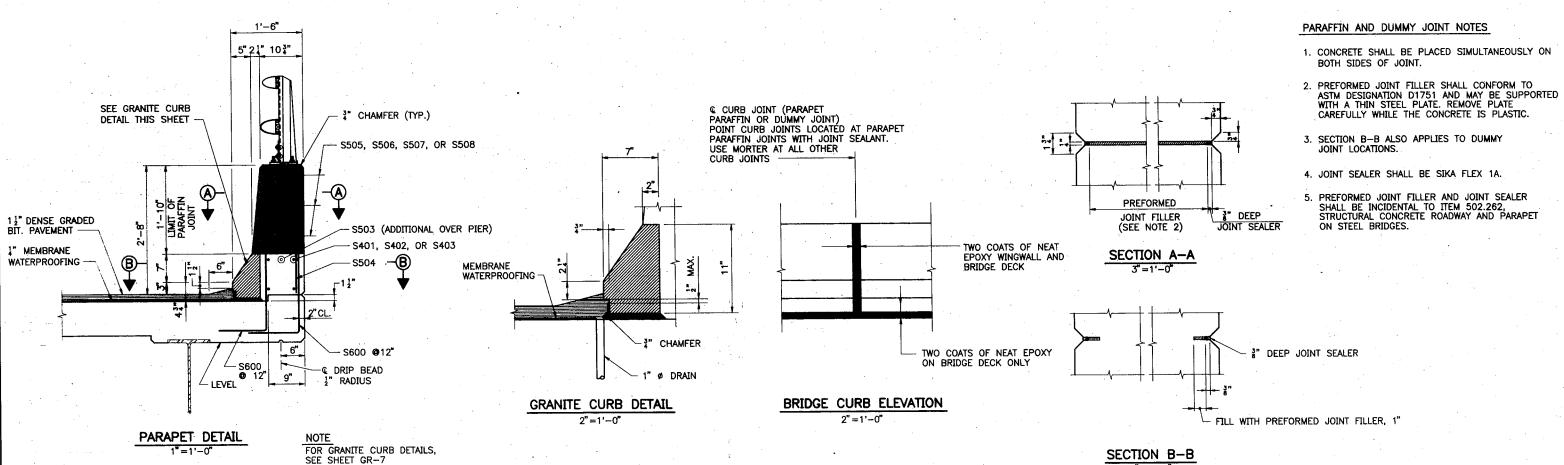
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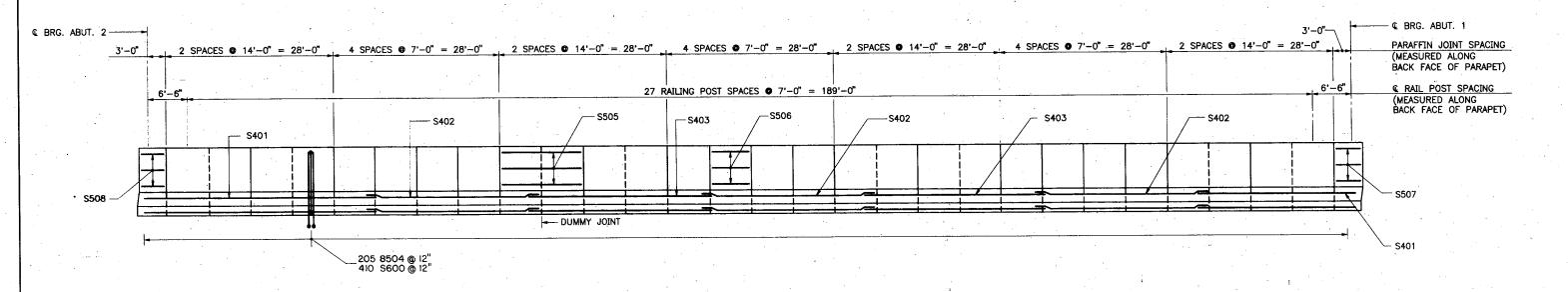




SECTION B-B

No.

Revision



PARAPET ELEVATION (LOOKING SOUTH) VERT. 2" '=1'-0'

Maine Turnpike Authority Maine Turnpike



GROVE ROAD UNDERPASS SLAB DETAILS II

HNTB

HOWARD NEEDLES TAMMEN & BERGENDOFF ARCHITECTS ENGINEERS PLANNERS

Drawn . LMR 2/95 95.11 Checked HNL 2/95

Designed GPM 2/95

By Date In Charge Of: RAL

Sheet No. GR-13 60 of 65

