

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

ALL-75-22.12 VILLAGE OF BLUFFTON RICHLAND TOWNSHIP ALLEN COUNTY

ALLEN COUNTY ALL-75-22.12	OHIO FHWA REGION 5	1 137
IM-75-5(58)		FEDERAL PROJECT

LIMITED ACCESS

This Improvement is Especially Designed for Through Traffic and Has Been Declared a Limited Access Highway or Freeway by Action of the Director in Accordance With the Provisions of Section 5511.02 of the Revised Code of Ohio.

1991 SPECIFICATIONS

The standard specifications of the State of Ohio, Department of Transportation, including changes and supplemental specifications listed in the proposal shall govern this improvement.

I hereby approve these plans and declare that the making of this improvement will not require the closing to traffic of the highway and that provisions for the maintenance and safety of traffic will be as set forth in the plans and estimates.

SPECIAL PROVISIONS	DATE
REINFORCED EARTH WALLS (DESIGN 1)	2-5-93
RETAINED EARTH WALLS (DESIGN 2)	2-5-93
DOUBLEWALL (DESIGN 3)	2-5-93
REINFORCED SOIL EMBANKMENTS BY HILFIKER (DESIGN 4)	2-5-93
T-WALL (DESIGN 5)	2-5-93
GENESIS HIGHWAY WALL SYSTEM (DESIGN 6)	2-5-93

DISTRICT
CERTIFIED
PLAN

Approved *[Signature]*
Date 1/27/93 District Deputy Director of Transportation

Approved *[Signature]*
Date 2-1-93 Engineer, Bureau of Bridges and Structural Design

Approved *[Signature]*
Date 2/5/93 Deputy Director, Design

Approved *[Signature]*
Date 2-5-93 Director, Department of Transportation

REVISED 2-18-93

**DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION**

APPROVED

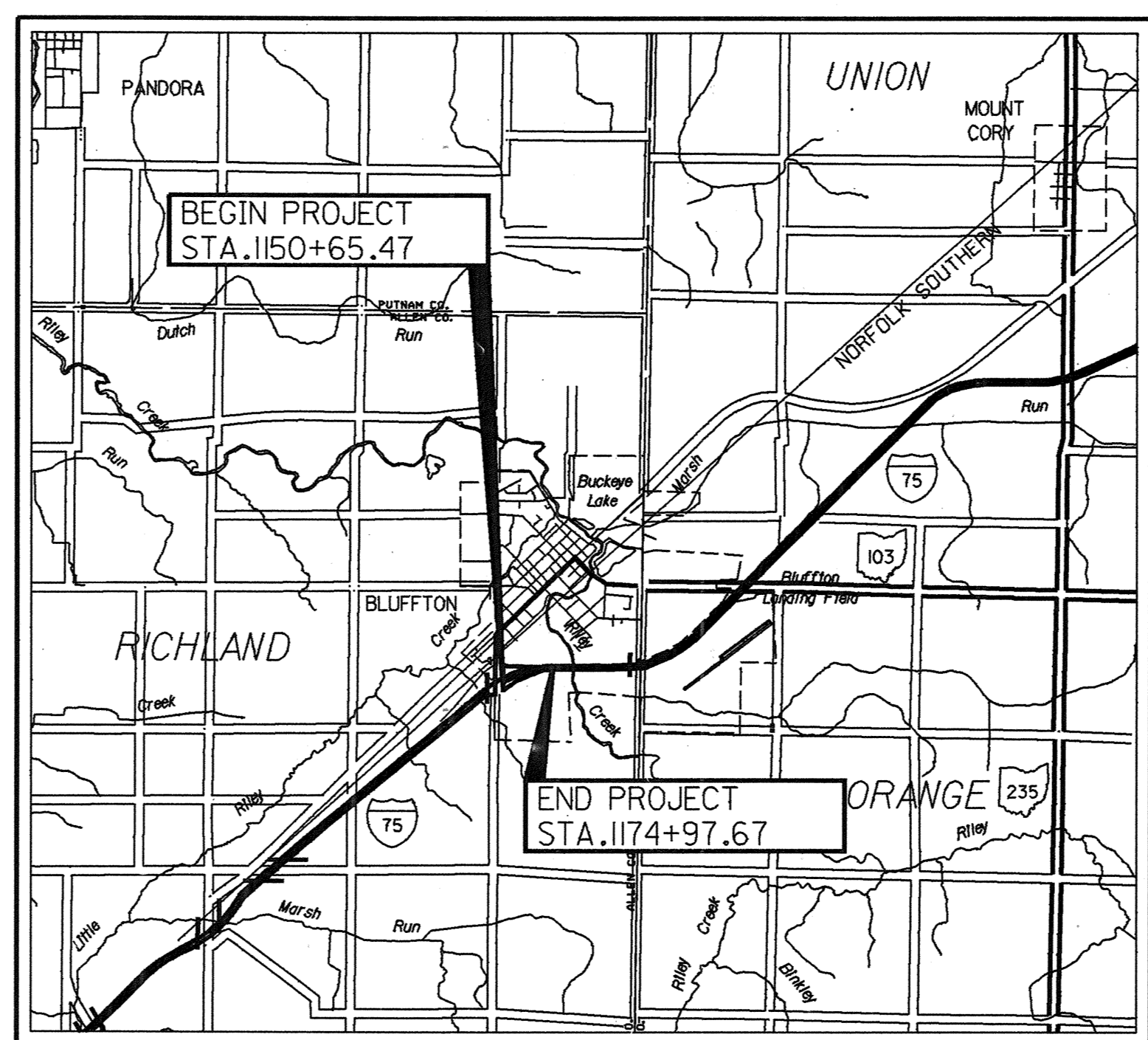
DIVISION ADMINISTRATOR _____ DATE _____

CONVENTIONAL SIGNS

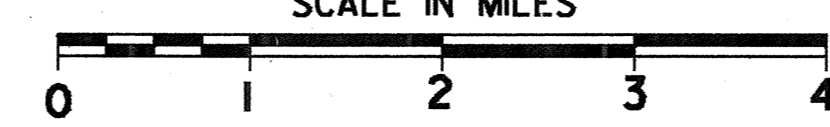
County Line	Limited Access (only)
Township Line	Right of Way (only)
Section Line	Limited Access & Right of Way
Corporation Line	Existing Right of Way
Fence Line (existing) (proposed)	Property Line (in existing fence)
Center Line	Railroad
Trees , Stumps (to be removed)	Guardrail (existing) (proposed)
Utility Poles: Telephone , Power , Light	

INDEX OF SHEETS

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LOCATION MAP
SCALE IN MILES



UNDERGROUND UTILITIES

TWO WORKING DAYS

BEFORE YOU DIG

Call... 800-362-2764 (Toll free)

OHIO UTILITIES PROTECTION SERVICE

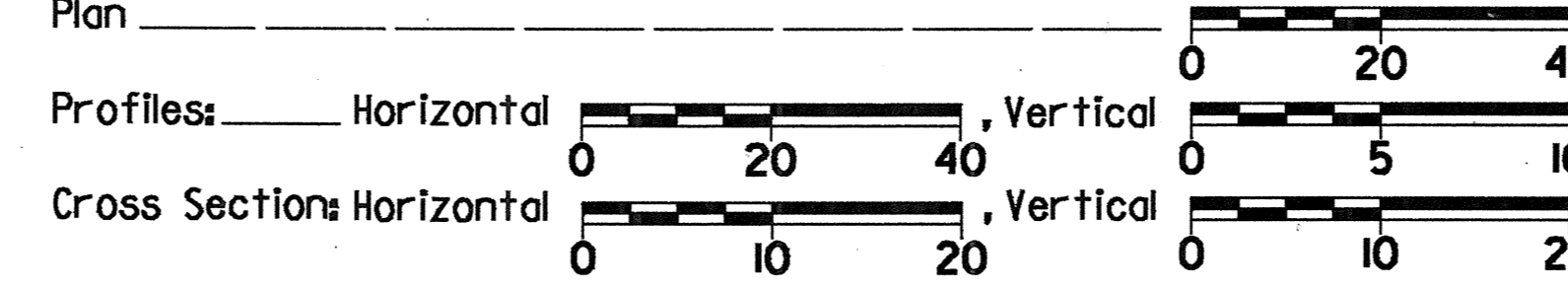
NON-MEMBERS
MUST BE CALLED DIRECTLY

Portion to be improved

State & Federal Routes

Other Roads

SCALES



SUPPLEMENTAL SPECIFICATIONS	
802	4-13-90
852	6-10-87
931	3-18-92
944	3-18-92
940	6-10-87
942	3-18-92

LINE DATA

Begin Project = Sta. 1150+65.47
Station Equation ~ Sta. 1174+75(Bk.) = Sta. 1174+92.67(Ahd.)
End Project = Sta. 1174+97.67
Net Length of Project = 2414.53 Lin. Ft. or 0.457 Mile

Begin Work = Sta. 1150+65.47
Station Equation ~ Sta. 1174+75(Bk.) = Sta. 1174+92.67(Ahd.)
End Work = Sta. 1212+88.00
Net Length of Work = 6204.86 Lin. Ft. or 1.175 Mile

SUPPLEMENTAL PRINTS OF STANDARD CONSTRUCTION DRAWINGS

BP-3.1	2-21-92	GR-1.2	10-30-92	MC-1	6-13-69	TC-41.10	8-29-84	TC-81.10	1-20-84
BP-5.1	2-21-92	GR-1.3	2-21-92	MC-4	7-26-76	TC-41.20	3-26-79	TC-81.20	1-20-84
BR-1	5-29-79	GR-2.1	5-6-91	MC-7	10-15-76	TC-41.40	6-18-79	TC-83.10	3-18-92
CB-458A	5-1-79	GR-3.1	5-6-91	TC-9.10	4-24-80	TC-41.50	3-26-79	TC-83.20	1-20-84
CB-3A	5-1-79	GR-4.1	5-6-91	MC-9.2	5-6-91	TC-42.10	8-19-77	TC-84.20	1-20-84
PCB-DD	4-24-92	GR-4.2	5-6-91	MC-9.3	10-30-92	TC-42.20	3-26-79	TC-85.20	1-20-84
EXJ-4-87	1-5-89	GR-4.3	2-21-92	SD-1-69	6-12-69	TC-51.10	1-20-84	MT-105.10	7-01-92
MC-11	8-1-78	GR-4.4	2-21-92	MT-95.30	10-10-88	TC-51.11	1-20-84	MT-105.11	7-01-92
PCB-91	4-24-92	HW-4B	4-1-80	MT-96.11	9-9-88	TC-52.10	4-3-79	HW-4A	4-01-80
GR-5.2	10-30-92	HL-10.12	5-1-87	MT-96.20	9-9-88	TC-52.20	4-3-79	HW-1	6-01-65
GR-5.3	10-30-92	HL-30.31	5-1-87	MT-96.25	9-9-88	TC-61.10	4-5-82	MH-1	12-18-84
GR-8	10-25-90	HL-30.21	5-1-87	TC-17.10	1-20-84	TC-65.10	2-1-90	MH-3	12-18-84
GR-1.1	5-6-91	HL-30.11	5-1-87	TC-21.20	9-1-92	TC-65.11	2-1-90	MH-5	6-12-75

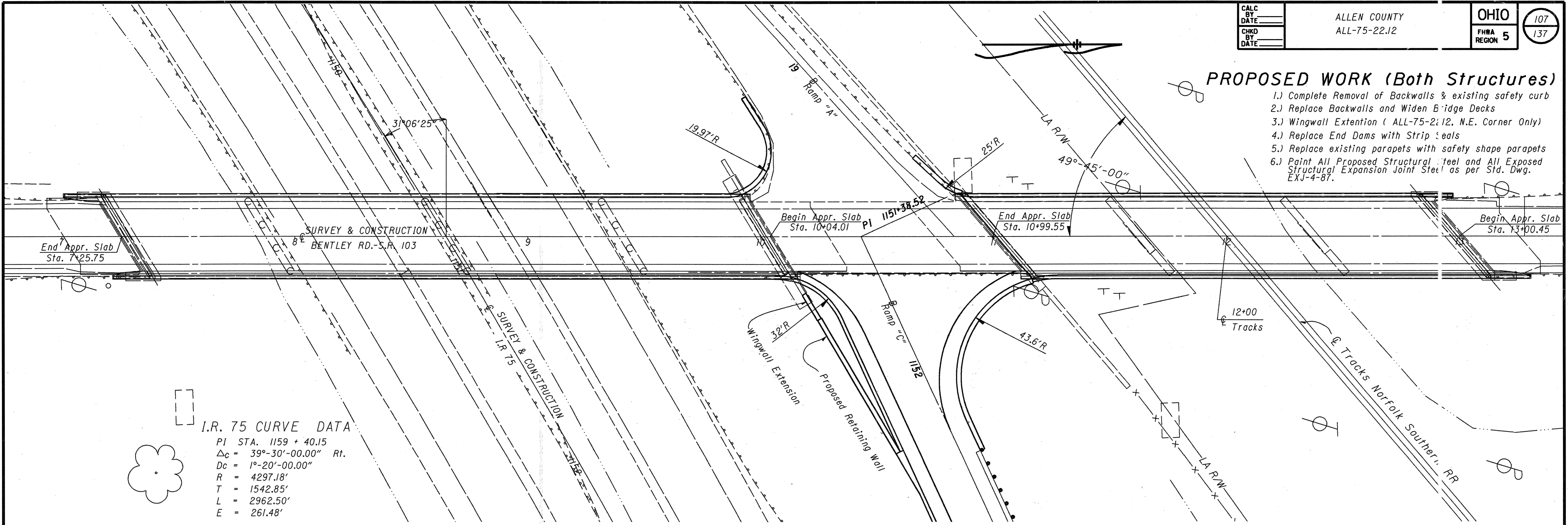
Plan Prepared By:
**DISTRICT NO. 1
OHIO DEPARTMENT OF
TRANSPORTATION**

Project: ALL-75-22.12
Date of Letting: 19 Contract No.

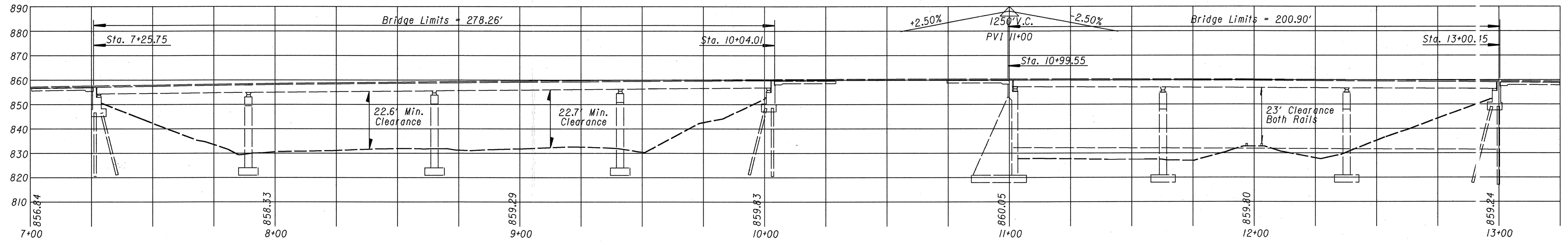
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USER NAME : odot
DATE : 26-JAN-1993
TIME : 10:22

PROPOSED WORK (Both Structures)

- 1.) Complete Removal of Backwalls & existing safety curb
- 2.) Replace Backwalls and Widen Bridge Decks
- 3.) Wingwall Extension (ALL-75-22.12, N.E. Corner Only)
- 4.) Replace End Dams with Strip Seals
- 5.) Replace existing parapets with safety shape parapets
- 6.) Paint All Proposed Structural Steel and All Exposed Structural Expansion Joint Steel as per Std. Dwg. EXJ-4-87.



I.R. 75 CURVE DATA
 PI STA. 1159 + 40.15
 $\Delta_c = 39^\circ-30'-00.00''$ Rt.
 $D_c = 1^\circ-20'-00.00''$
 $R = 4297.18'$
 $T = 1542.85'$
 $L = 2962.50'$
 $E = 261.48'$



EXISTING STRUCTURE DATA - ALL-75-2212
TYPE: Continuous steel beam with reinf. conc. deck and reinf. conc. substructure
SPANS: 60'-8", 75'-10", 75'-10", 60'-8" c/c brgs.
ROADWAY: 30'-0" Face to Face of 2'-3" Safety Curbs
LOAD FREQUENCY: CF=400(57)
SKEW: 31°-06'-25" Rt. Fwd.
WEARING SURFACE: 1/4" Latex Modified Concrete
APPROACH SLAB: AS-1-54 (25' long)
ALIGNMENT: Tangent

EXISTING STRUCTURE DATA - ALL-103-0030
TYPE: Continuous steel beam with reinf. conc. deck and reinf. conc. substructure
SPANS: 60'-0", 75'-0", 60'-0" c/c brgs.
ROADWAY: 30'-0" Face to Face of 2'-3" Safety Curbs
LOAD FREQUENCY: CF=400(57)
SKEW: 40°-15'-00" Rt. Fwd.
WEARING SURFACE: 1/4" Latex Modified Concrete
APPROACH SLAB: AS-1-54 (25' long)
ALIGNMENT: Tangent
NO. OF TRACKS: One

PROPOSED STRUCTURE DATA - ALL-75-2212
TYPE: Continuous steel beam with reinf. conc. deck and reinf. conc. substructure
SPANS: 60'-8", 75'-10", 75'-10", 60'-8" c/c brgs.
ROADWAY: Var. 33'-6" to 35'-4 7/8" toe/toe of 1'-6" Deflector Parapet
LOAD FREQUENCY: CF=400(57)
SKEW: 31°-06'-25" Rt. Fwd.
WEARING SURFACE: 1/4" Latex Modified Concrete
APPROACH SLAB: AS-1-54 (25' long)
ALIGNMENT: Tangent

PROPOSED STRUCTURE DATA - ALL-103-0030
TYPE: Continuous steel beam with reinf. conc. deck and reinf. conc. substructure
SPANS: 60'-0", 75'-0", 60'-0" c/c brgs.
ROADWAY: Var. 33'-6" to 35'-10 3/4" toe/toe of 1'-6" Deflector Parapet
LOAD FREQUENCY: CF=400(57)
SKEW: 40°-15'-00" Rt. Fwd.
WEARING SURFACE: 1/4" Latex Modified Concrete
APPROACH SLAB: AS-1-54 (25' long)
ALIGNMENT: Tangent
NO. OF TRACKS: One

STATE OF OHIO		1 / 16	
DEPARTMENT OF TRANSPORTATION			
DISTRICT ONE PLANNING AND DESIGN OFFICE			
SITE PLAN			
Bridge No. ALL-75-2212 S.R. 103 over I.R. 75 & Bridge No. ALL-103-0030 S.R. 103 over Norfolk Southern Railroad			
SFN 0203548 - STATION NO. ALL-75-2212			
SFN 0203572 - STATION NO. ALL-103-0030			
DESIGNED	DRAWN	TRACED	CHECKED
REVIS	REVIS	REVIS	REVIS
		DATE	REVIS
		1/28/93	

DESIGN FILE : i:\dgn\bentley\at7522sp.dgn
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 TIME : 09:21

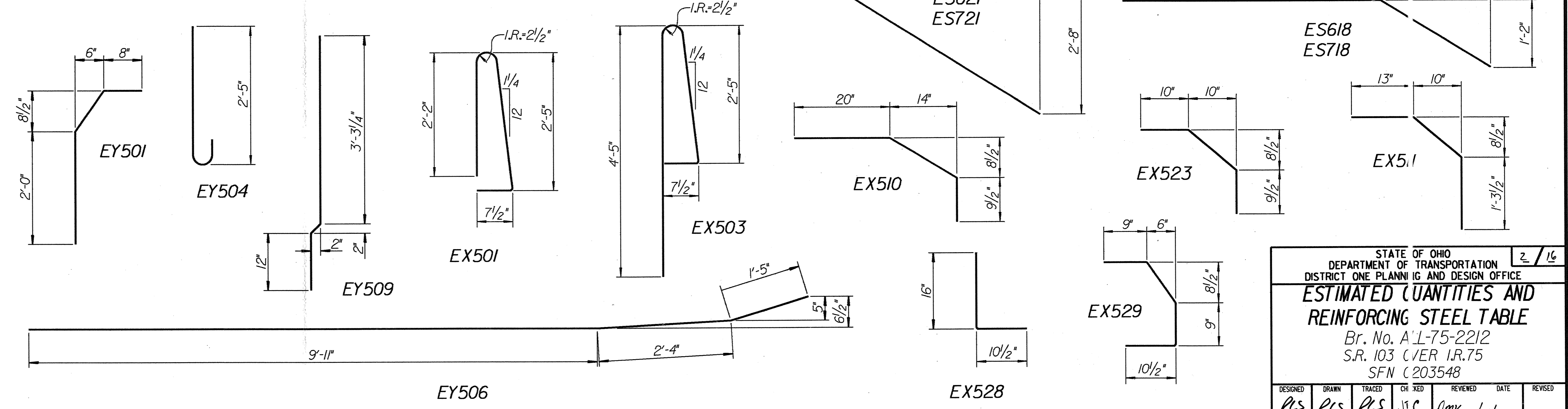
SUPERSTRUCTURE STEEL LIST

MARK	No.	LENGTH	WEIGHT	SHAPE
ES601	4	1'-10"	11	Str.
ES602	4	1'-11"	12	Str.
ES603	2	2'-1"	6	Str.
ES605	1	2'-4"	4	Str.
ES606	1	2'-5 1/2"	4	Str.
ES608	2	2'-9"	8	Str.
ES617	1	6'-1"	9	Bt.
ES618	1	6'-9"	10	Bt.
ES619	2	7'-7"	23	Str.
ES620	1	6'-10"	10	Bt.
ES621	1	6'-11"	10	Bt.
ES622	1	12'-0"	18	Bt.*
ES623	1	14'-7 1/2"	22	Bt.*
Subtotal			147	
ES701	4	1'-10"	15	Str.
ES702	4	1'-11"	16	Str.
ES703	2	2'-1"	9	Str.
ES705	1	2'-4"	5	Str.
ES706	1	2'-5 1/2"	5	Str.
ES708	2	2'-9"	11	Str.
ES717	1	6'-1"	12	Bt.
ES718	1	6'-9"	14	Bt.
ES719	2	7'-7"	31	Str.
ES720	1	6'-10"	14	Bt.
ES721	1	6'-11"	14	Bt.
ES722	1	12'-0"	25	Bt.*
ES723	1	14'-7 1/2"	30	Bt.*
Subtotal			201	
Total			348	

PARAPET REINFORCING STEEL LIST

MARK	No.	LENGTH	WEIGHT	SHAPE	MARK	No.	LENGTH	WEIGHT	SHAPE
LEFT SIDE BRIDGE PARAPET					RIGHT SIDE BRIDGE PARAPET				
EX501	5	5'-3"	27	Bt.	EX501	6	5'-3"	33	Bt.
EX502	202	2'-5"	509	Bt.	EX502	203	2'-5"	512	Bt.
EX503	203	7'-0"	1482	Bt.	EX503	203	7'-0"	1482	Bt.
EX504	48	11'-6"	576	Str.	EX504	48	11'-6"	576	Str.
EX505	56	6'-0"	350	Str.	EX505	56	6'-0"	350	Str.
EX517	8	6'-10"	57	Str.	EX511	1	2'-11 1/2"	3	Bt.
EX523	1	2'-8 1/2"	3	Bt.	EX517	8	6'-10"	57	Str.
EX524	2	12'-2 1/2"	25	Str.	EX518	2	12'-9"	27	Str.
EX525	2	11'-5 1/2"	24	Str.	EX519	2	11'-11"	25	Str.
EX526	2	10'-11 1/2"	23	Str.	EX520	2	11'-7 1/4"	24	Str.
EX527	2	11'-9 1/4"	25	Str.	EX521	2	12'-4 1/4"	26	Str.
EX528	5	2'-1"	11	Bt.	EX522	1	2'-10 1/2"	3	Bt.
EX529	5	3'-0"	16	Bt.	EX528	5	2'-1"	11	Bt.
Subtotal					Subtotal				
EP507	36	31'-6"	1183	Str.	EP507	36	31'-6"	1183	Str.
EP515	2	15'-2 3/4"	32	Str.	EP513	2	16'-9 1/4"	35	Bt.*
EP516	2	19'-3 3/4"	40	Str.	EP514	2	16'-8 1/4"	35	Bt.*
Subtotal					Subtotal				
4383					4398				
END SECTION					END SECTION				
EX501	2	5'-3"	11	Bt.	EX501	2	5'-3"	11	Bt.
EX502	1	2'-5"	3	Bt.	EX502	1	2'-5"	3	Bt.
Subtotal					Subtotal				
282					250				
Total					Total				
4665					4648				

* To be bent at construction site



ABUTMENT REHABILITATION STEEL LIST

MARK	No.	LENGTH	WEIGHT	SHAPE
SOUTH ABUTMENT				
EA501	6	1'-8"	10	Str.
EB502	8	19'-5"	162	Str.
Subtotal			172	
NORTH ABUTMENT				
EA501	26	1'-8"	45	Str.
EA504	2	9'-8"	20	Str.
EA505	2	6'-2"	13	Str.
EA506	2	5'-7 1/2"	12	Str.
EA507	2	11'-1 1/2"	23	Str.
EA508	2	1'-0"	2	Str.
EA509	2	1'-5"	3	Str.
EA510	2	1'-10"	4	Str.
EA511	2	2'-3"	5	Str.
EA512	2	2'-8"	6	Str.
EA513	2	3'-1"	6	Str.
EA514	2	3'-6"	7	Str.
EA515	8	3'-9"	31	Str.
Subtotal			394	
Total			566	

ESTIMATED QUANTITIES

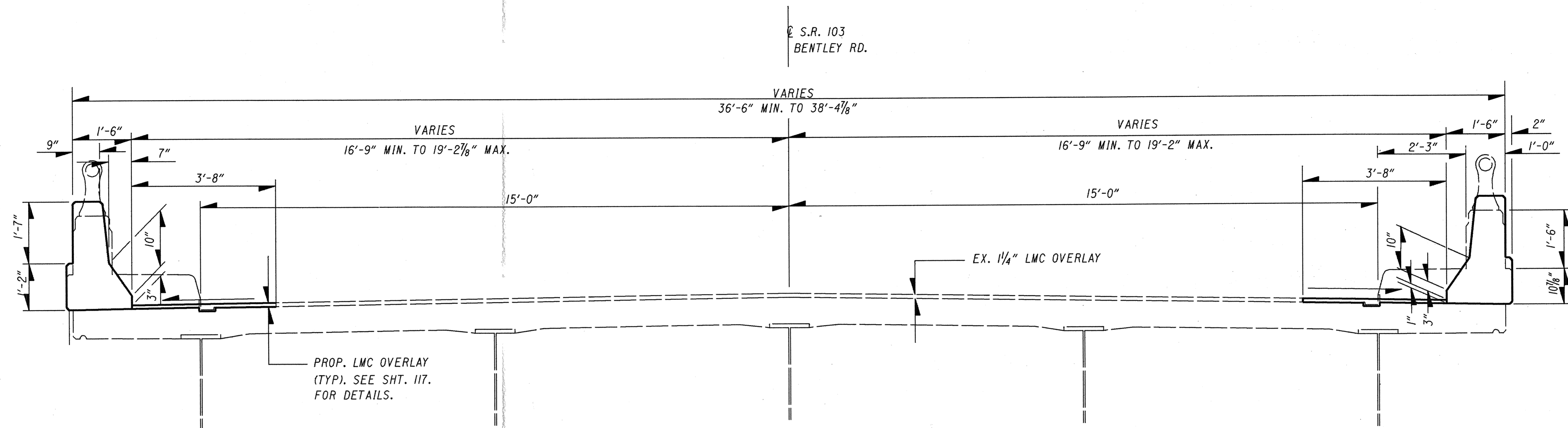
ITEM	ABUTMENTS	SUPER-STRUCTURE	GENERAL	ITEM	ITEM EXTENSION	TOTAL	UNIT	DESCRIPTION
202		Lump		202	11202	Lump		Portions of Structure Removed, Over 20 Foot Span
202		8416		202	23500	8416	Sq. Yd.	Wearing Course Removed
509	566	9661	100	509	15800	10,327	Pound	Epoxy Coated Reinforcing Steel, Grade 60
510		910		510	11100	910	Each	Dowel Hole
511	9	70		511	34400	79	Cu. Yd.	Class S Concrete, Superstructure (See Proposal Note)
Special	11	559		Special	51267502	570	Sq. Yd.	Sealing Concrete Surface (Epoxy) (See Proposal Note)
Special		290		Special	51400050	290	Sq. Ft.	Surface Preparation of Existing Steel, System OZEU
Special		290		Special	51400056	290	Sq. Ft.	Field Painting of Existing Steel, System OZEU, Prime Coat
Special		290		Special	51400060	290	Sq. Ft.	Field Painting of Existing Steel, Intermediate Coat, System OZEU
Special		290		Special	51400066	290	Sq. Ft.	Field Painting of Existing Steel, Finish Coat, System OZEU
516		85		516	11210	85	LIn. Ft.	Structural Expansion Joint Including Elastomeric Strip Seal
516	60			516	13600	60	Sq. Ft.	1" Preformed Expansion Joint Filler
518			16	518	12700	16	Each	Scupper Vertical Extension
518	2			518	21100	2	Cu. Yd.	Porous Backfill
Special		227		845	10300	227	Sq. Yd.	Latex Modified Concrete Overlay (1.25" Thick)
Special		9		845	11000	9	Cu. Yd.	Latex Modified Concrete Overlay (Variable Th. (See Proposal Note))

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
DISTRICT ONE PLANNING AND DESIGN OFFICE

ESTIMATED QUANTITIES AND REINFORCING STEEL TABLE

Br. No. A.L-75-22J2
S.R. 103 OVER I.R.75
SFN C 203548

DESIGNED	DRAWN	TRACED	CHKD	REVISED	DATE	REVISED
RLS	RLS	RLS	JSC	JMK	1/21/97	

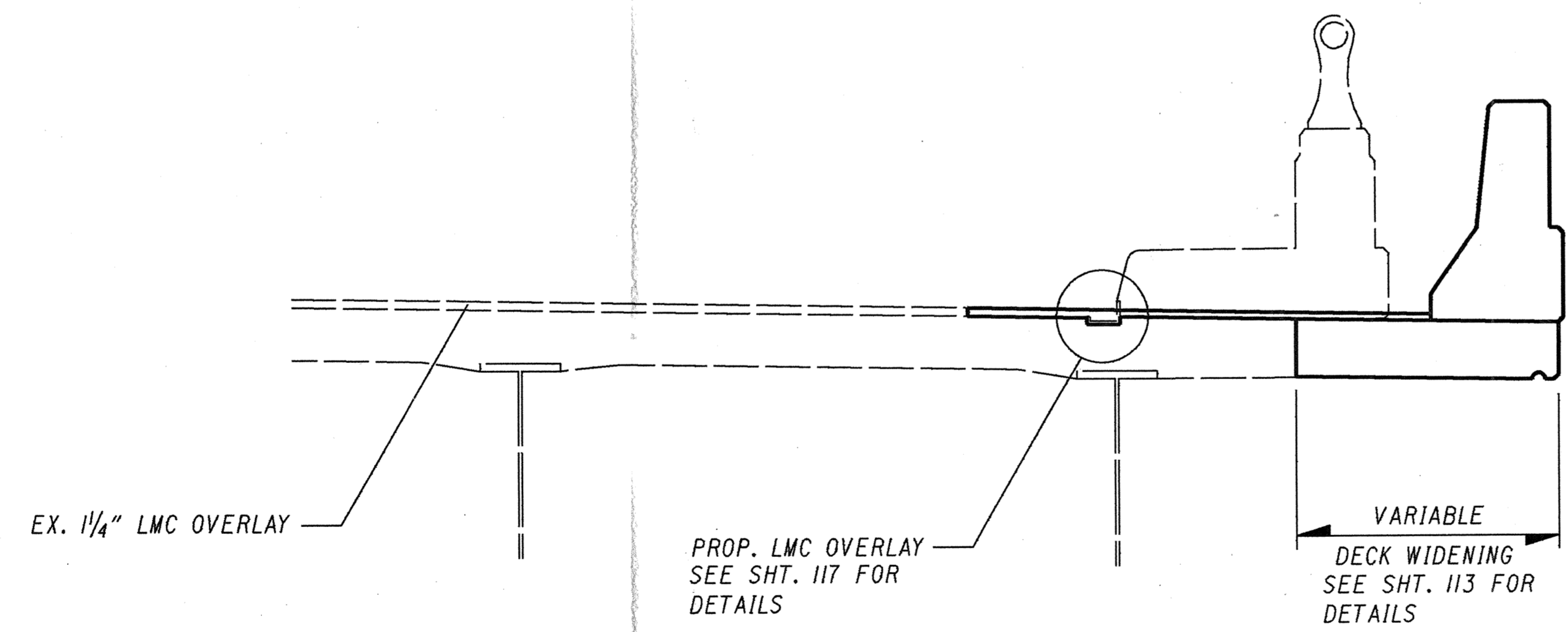


TRANSVERSE SECTION

FOR REMOVAL AND RECONSTRUCTION
DETAILS, SEE SHT. 117.

FOR DECK WIDENING DETAILS
SEE SHT. 113.

FOR STRUCTURE DATA
SEE SHT. 107.

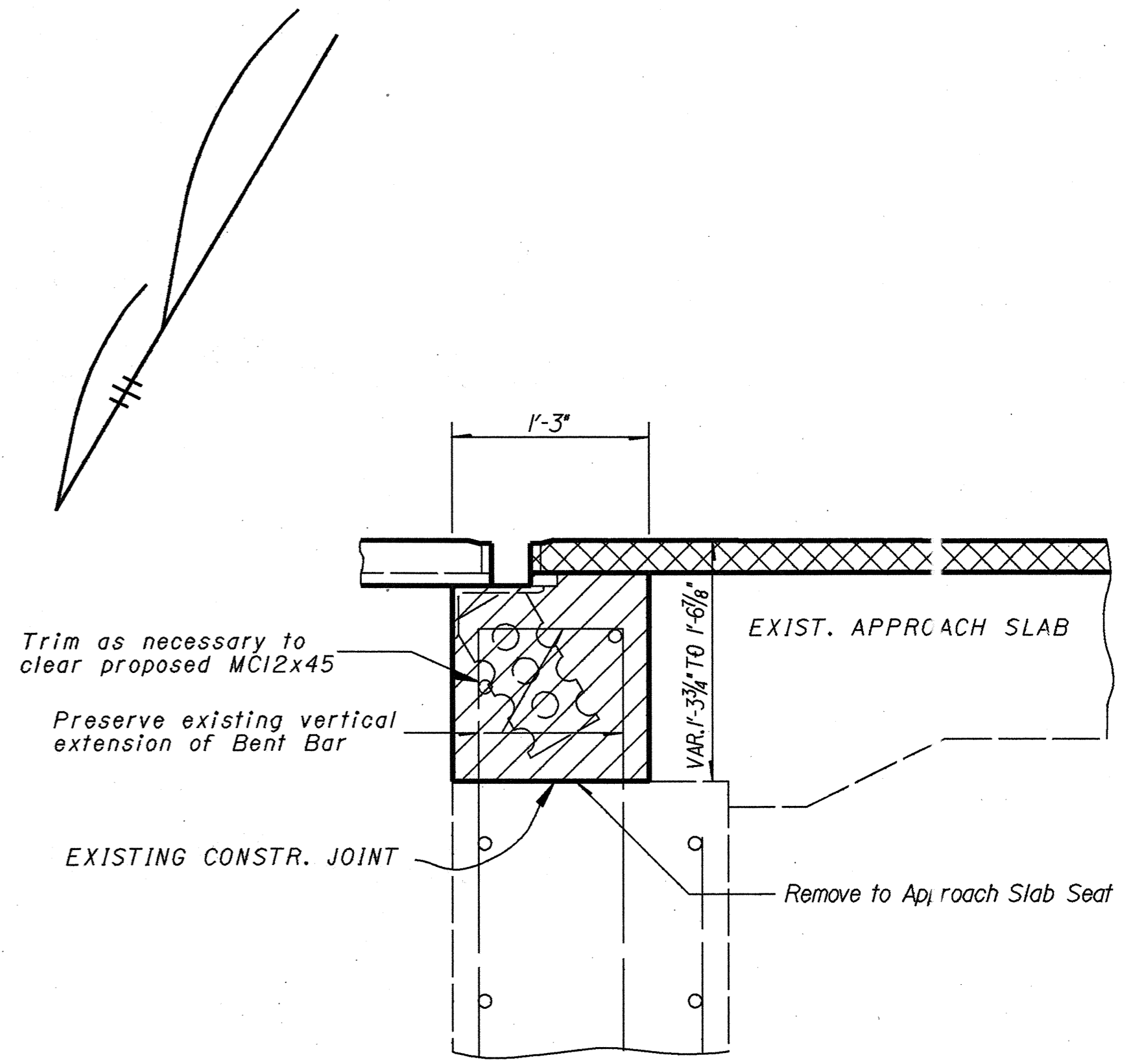
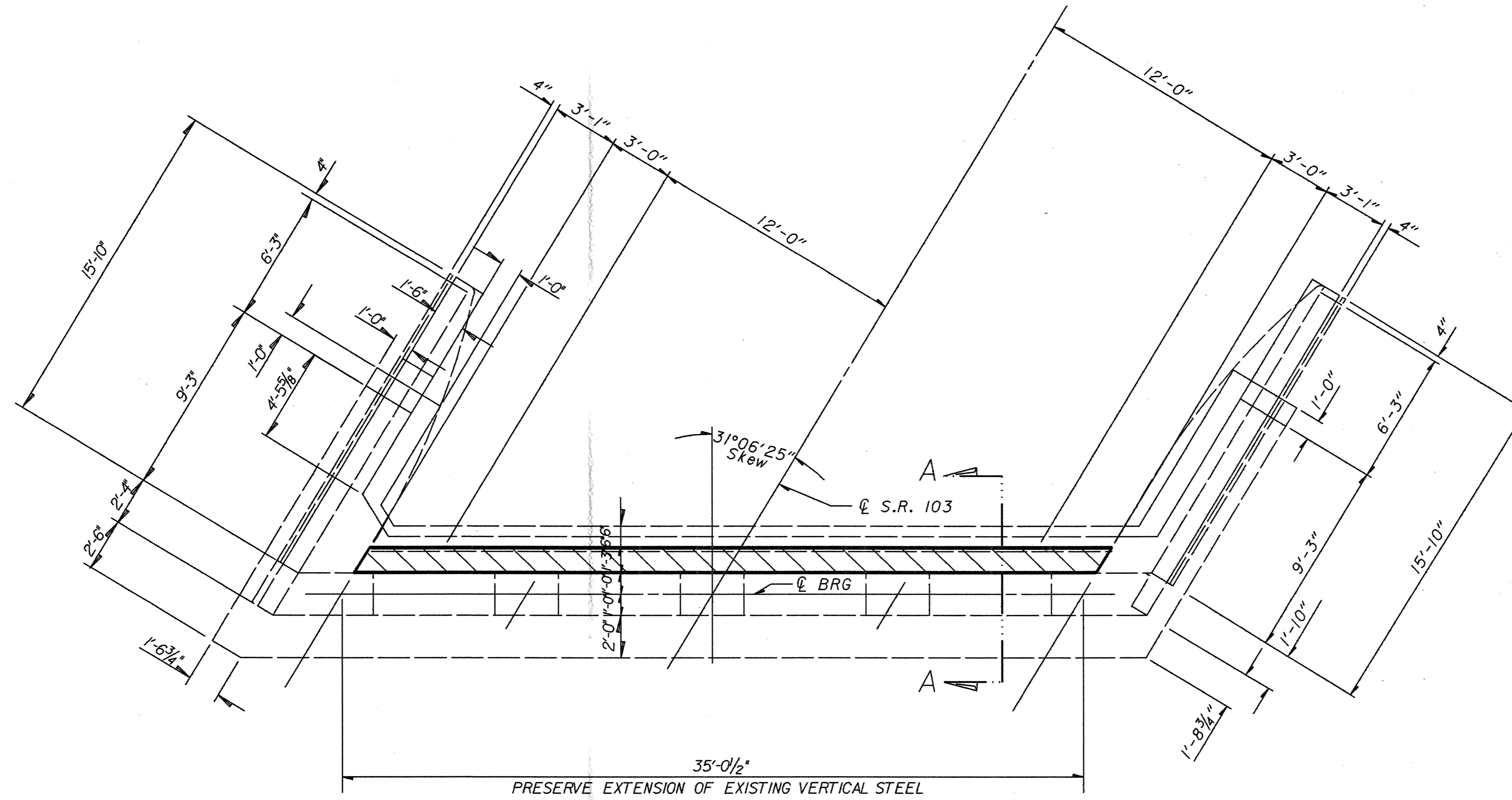


SECTION AT WIDENING

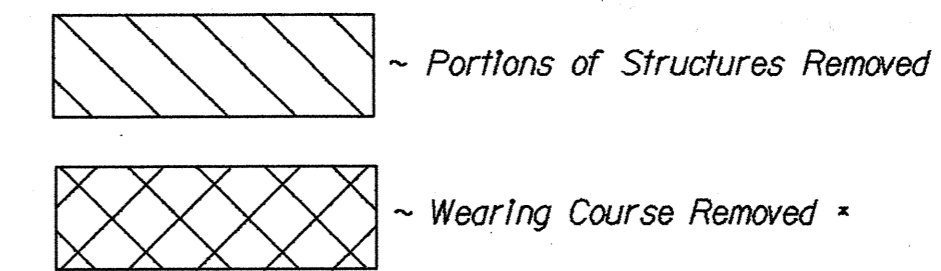
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DATE : 27-JAN-1993
TIME : 09:40

STATE OF OHIO						3 / 16
DEPARTMENT OF TRANSPORTATION						
DISTRICT ONE PLANNING AND DESIGN OFFICE						
TRANSVERSE SECTION						
BR.NO. ALL-75-2212						
S.R. 103 over IR 75						
SFN 0203548						
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RLS	RLS	RLS	JLC	JMK	1/28/95	

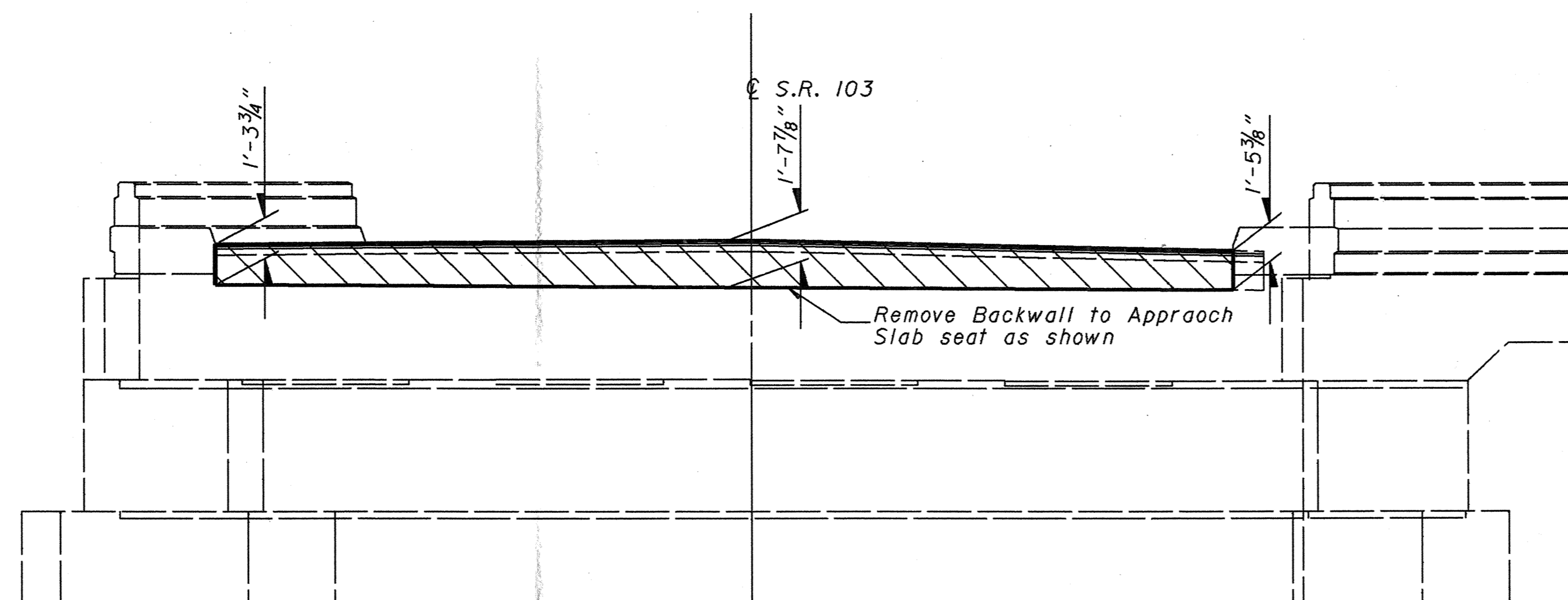


**PLAN SHOWING ABUTMENT REMOVAL
BRIDGE OVER I.R.75**



* Included with Roadway Quantities.

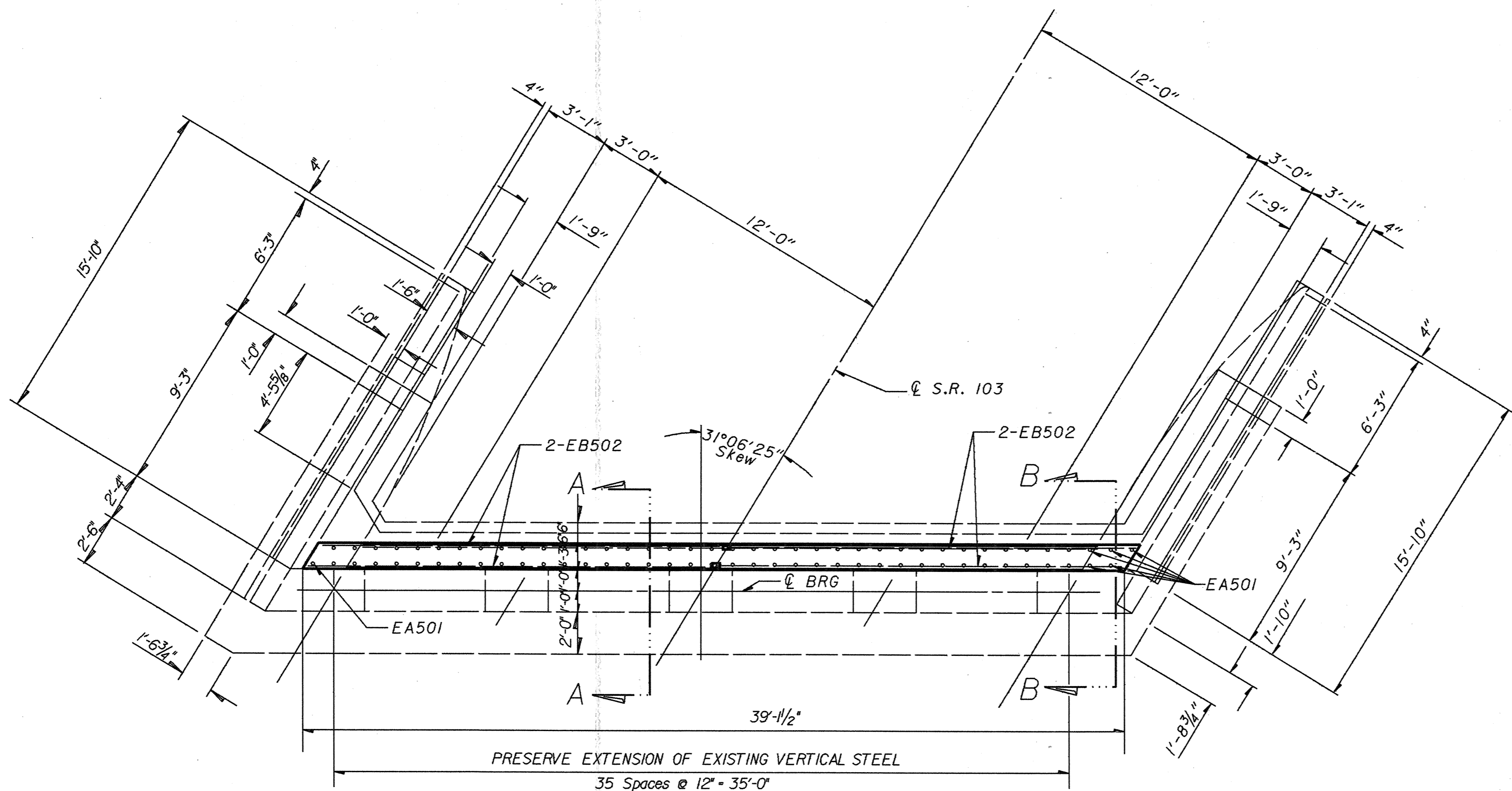
Note: For Existing Parapet and Safety Curb Removal Detail: See Sht. 117.



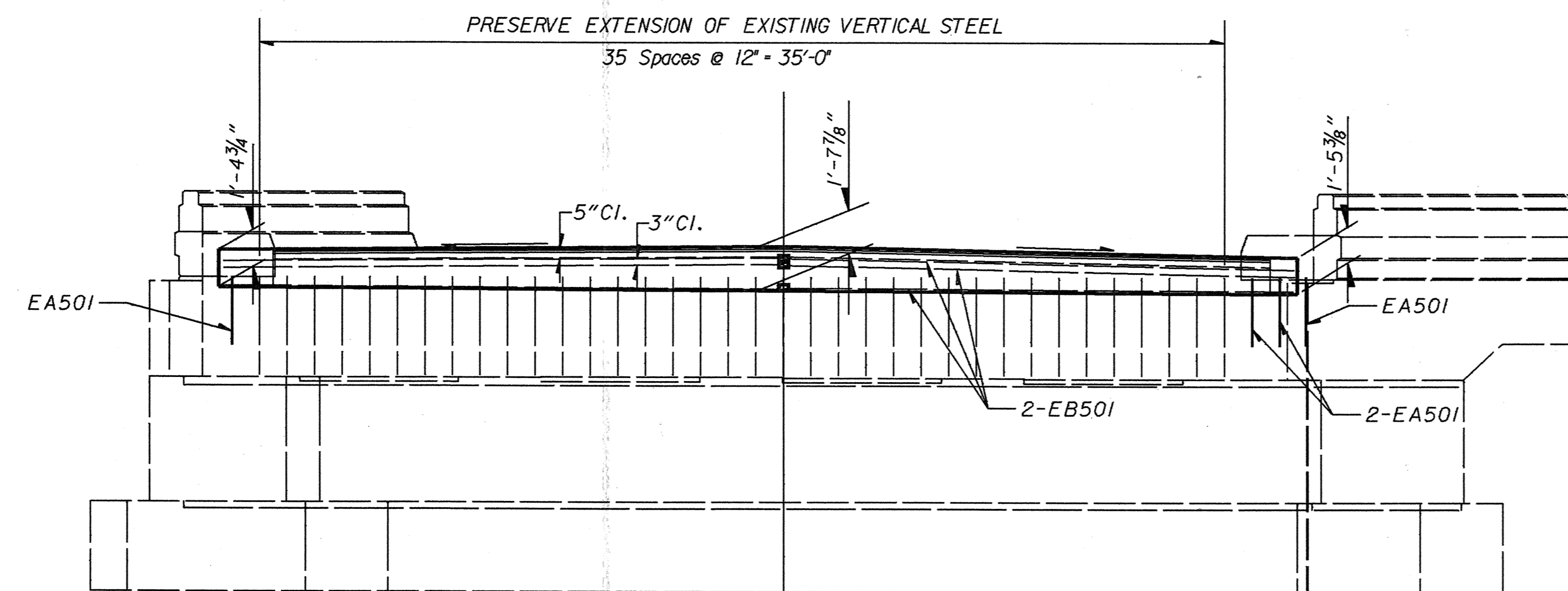
ELEVATION SHOWING ABUTMENT REMOVAL

STATE OF OHIO						4 / 16
DEPARTMENT OF TRANSPORTATION						
DISTRICT ONE PLANNING AND DESIGN OFFICE						
ABUTMENT REMOVAL DETAILS						
BR. No. ALL-75-2212 S.R.103 Over I.R.75						
SFN 0203548						
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RLS	RLS	RLS	JSC	JMK	1/28/93	

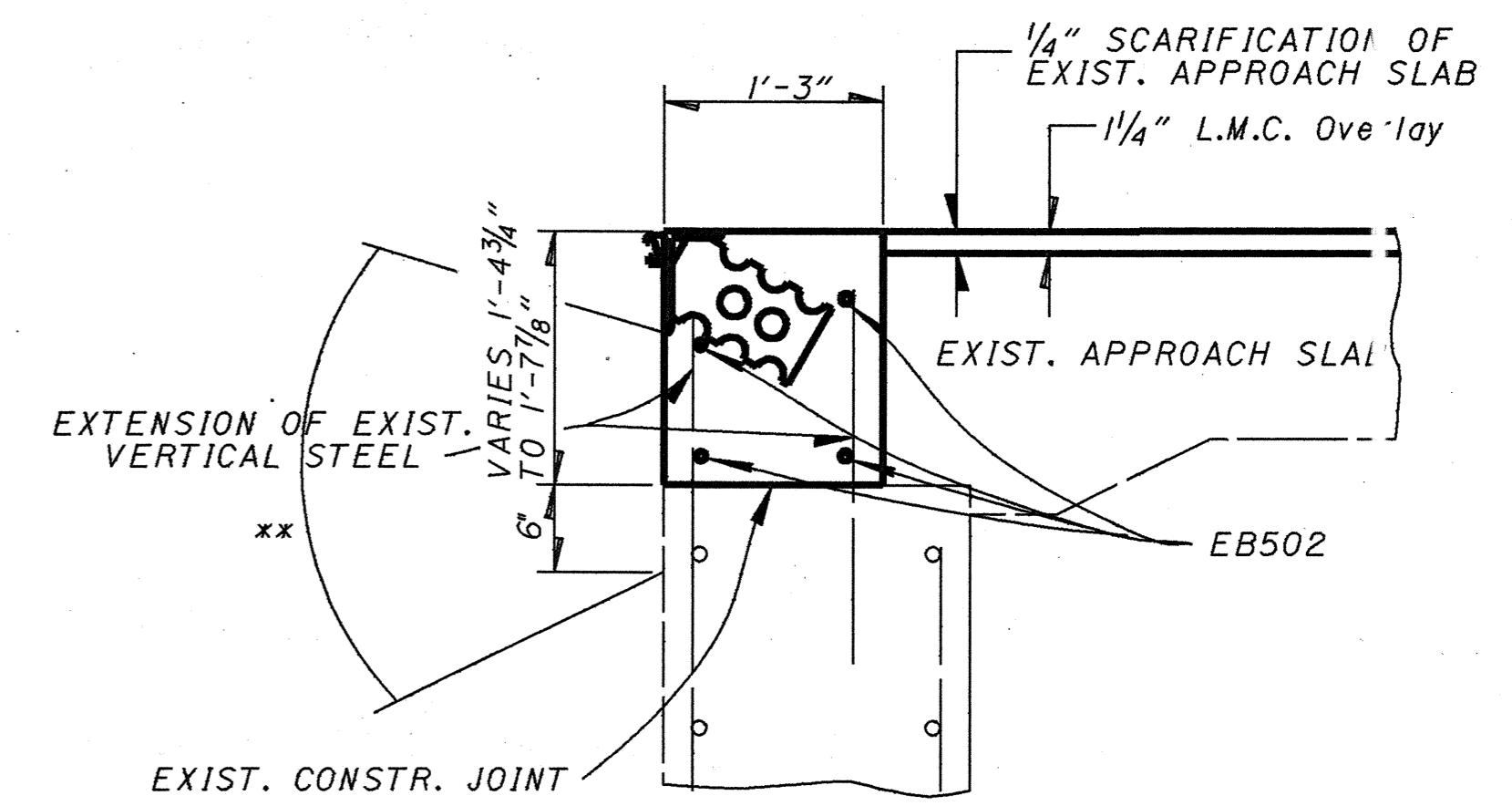
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 TIME : 09:56



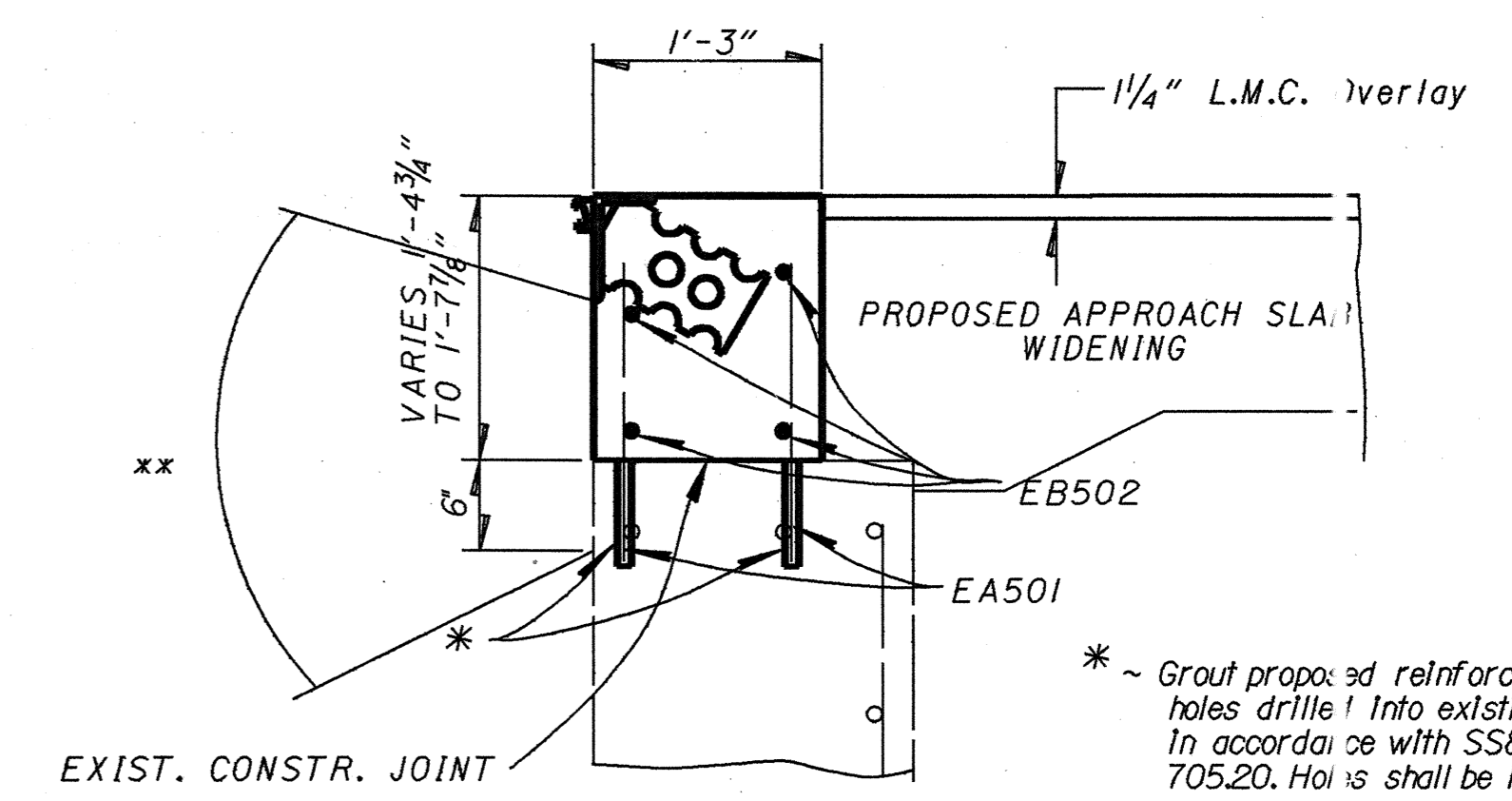
**PLAN SHOWING BACKWALL REHABILITATION
BRIDGE OVER I.R.75**



ELEVATION SHOWING BACKWALL REHABILITATION



PROPOSED SECTION A-A



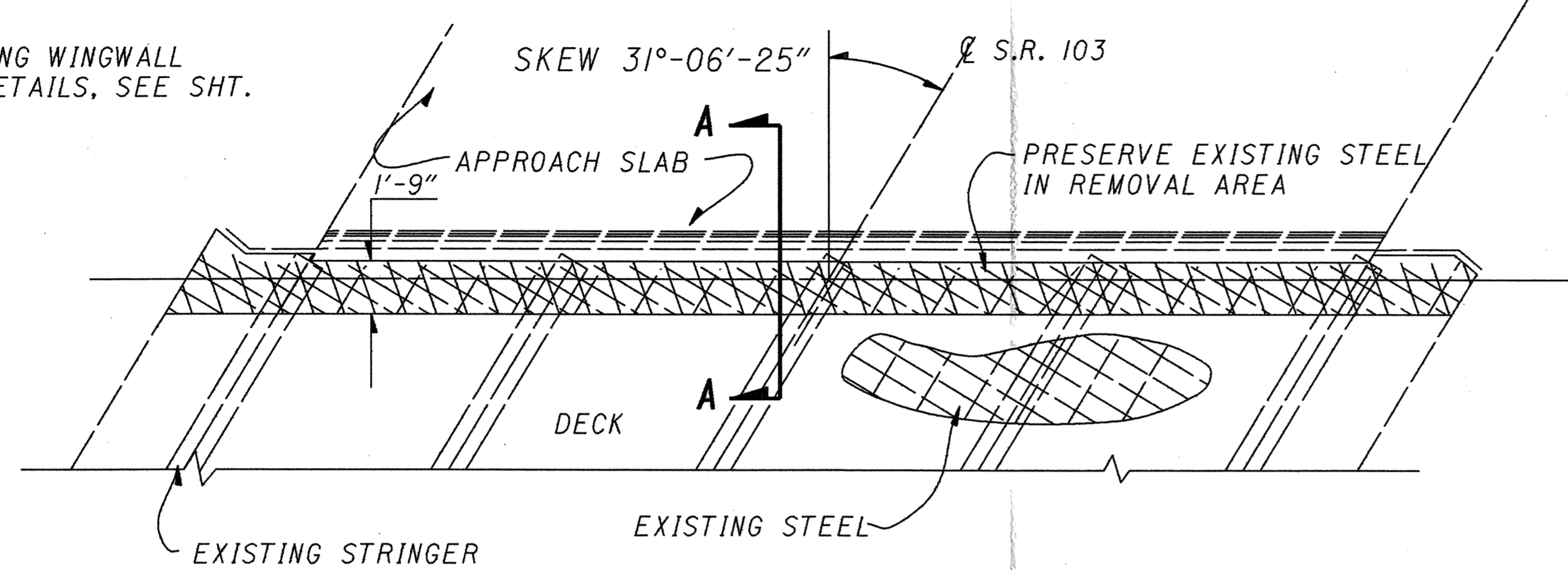
PROPOSED SECTION B-B

- NOTE: For Approach Slab Widening Details, See Sheet 49
 - NOTE: For Strip Seal Details, See Sheet 112
 - NOTE: For Wing wall Upgrading Details, See Sheet 116
 - NOTE: For Parapet Details, See Sheet 118-119
 - NOTE: Preserve extensions of all existing vertical steel.
- xx = Concrete Surfaces to be Epoxy Sealed
- = Mechanical Connectors @ Roadway Included with Item 509 Epoxy Coated Steel.
- * ~ Grout proposed reinforcing bars into holes drilled into existing concrete. In accordance with SS852 & Spec. 705.20. Holes shall be 12" deep.

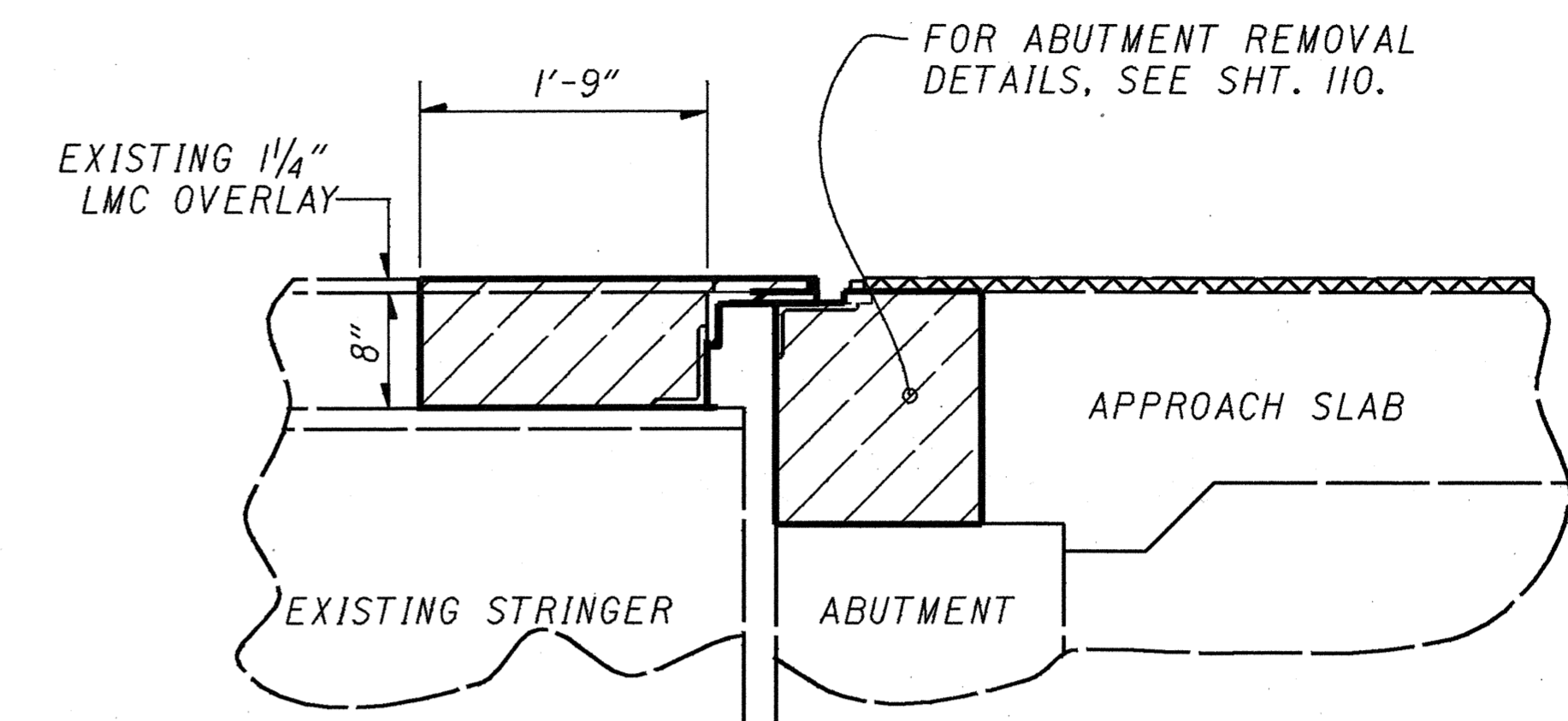
STATE OF OHIO	5/16
DEPARTMENT OF TRANSPORTATION	
DISTRICT ONE PLANNING AND DESIGN OFFICE	
ABUTMENT REHABILITATION DETAILS	
BR. No. ALL-75-2212 S.R.103 Over I.R.75 SFN 0203548	
DESIGNED	REVIEWED
DRAWN	DATE
TRACED	REVISED
CHECKED	
RLS	AS
JRC	SMK 1/28/93

DESIGN FILE : i:\dgn\Bentley\7522ad6.dgn
 USERNAME : nick
 DATE : 27-JAN-1993
 TIME : 09:52

FOR EXISTING WINGWALL REMOVAL DETAILS, SEE SHT.



EXISTING SUPERSTRUCTURE REMOVAL PLAN @ SOUTH ABUTMENT

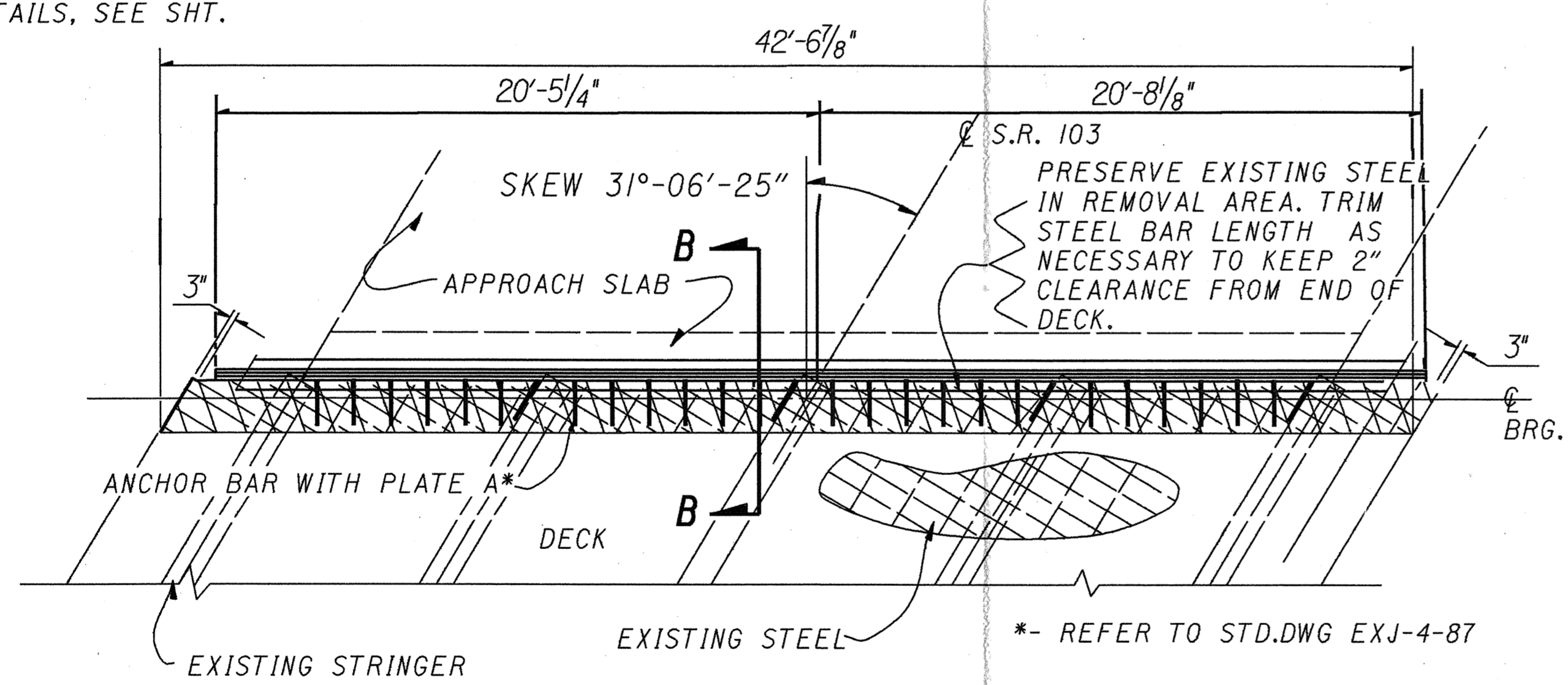


EXISTING SECTION A-A

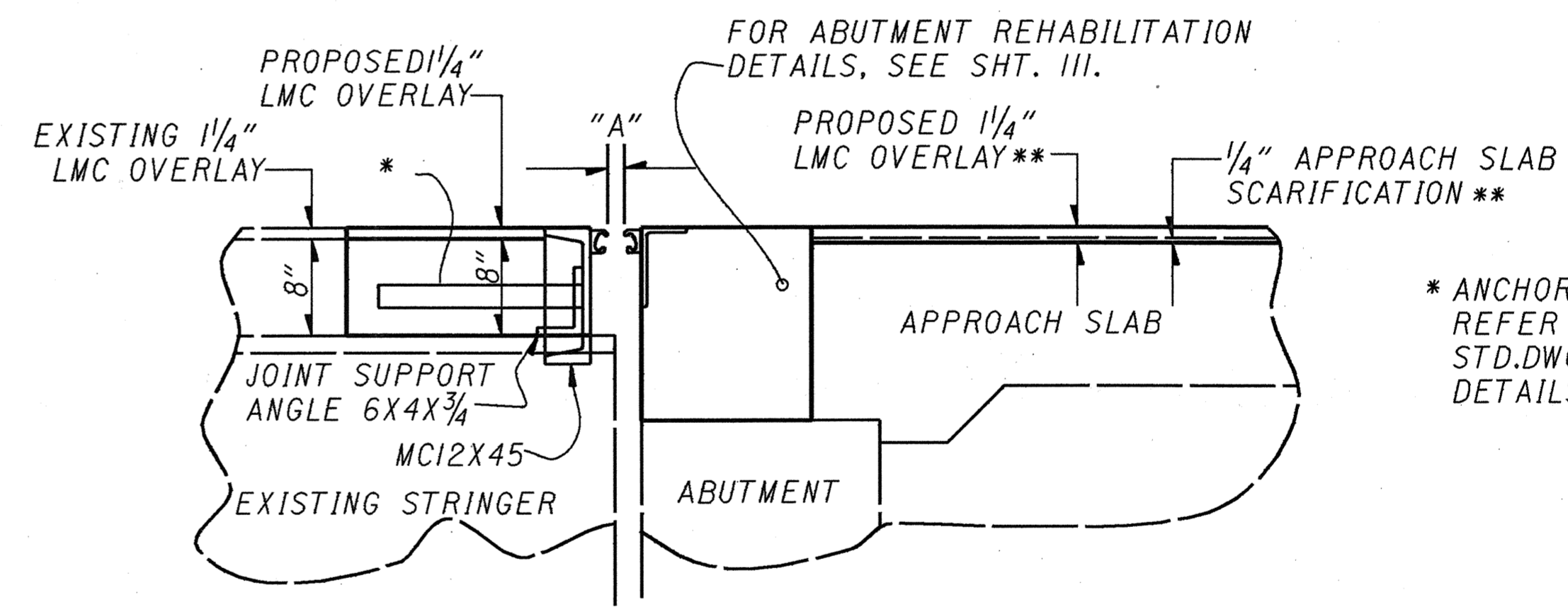
 TO BE REMOVED UNDER ITEM 202 PORTIONS OF A STRUCTURE REMOVED
 ITEM 202 WEARING COURSE REMOVED **

** INCLUDED WITH ROADWAY QUANTITIES

FOR PROPOSED WINGWALL REHABILITATION DETAILS, SEE SHT.



SUPERSTRUCTURE RECONSTRUCTION PLAN @ SOUTH ABUTMENT



PROPOSED SECTION B-B

* ANCHOR BARS (TY). FOR SPACING REFER TO SHT. 122. ALSO REFER TO STD.DWG. EXJ-4-87 FOR ADDITIONAL DETAILS.

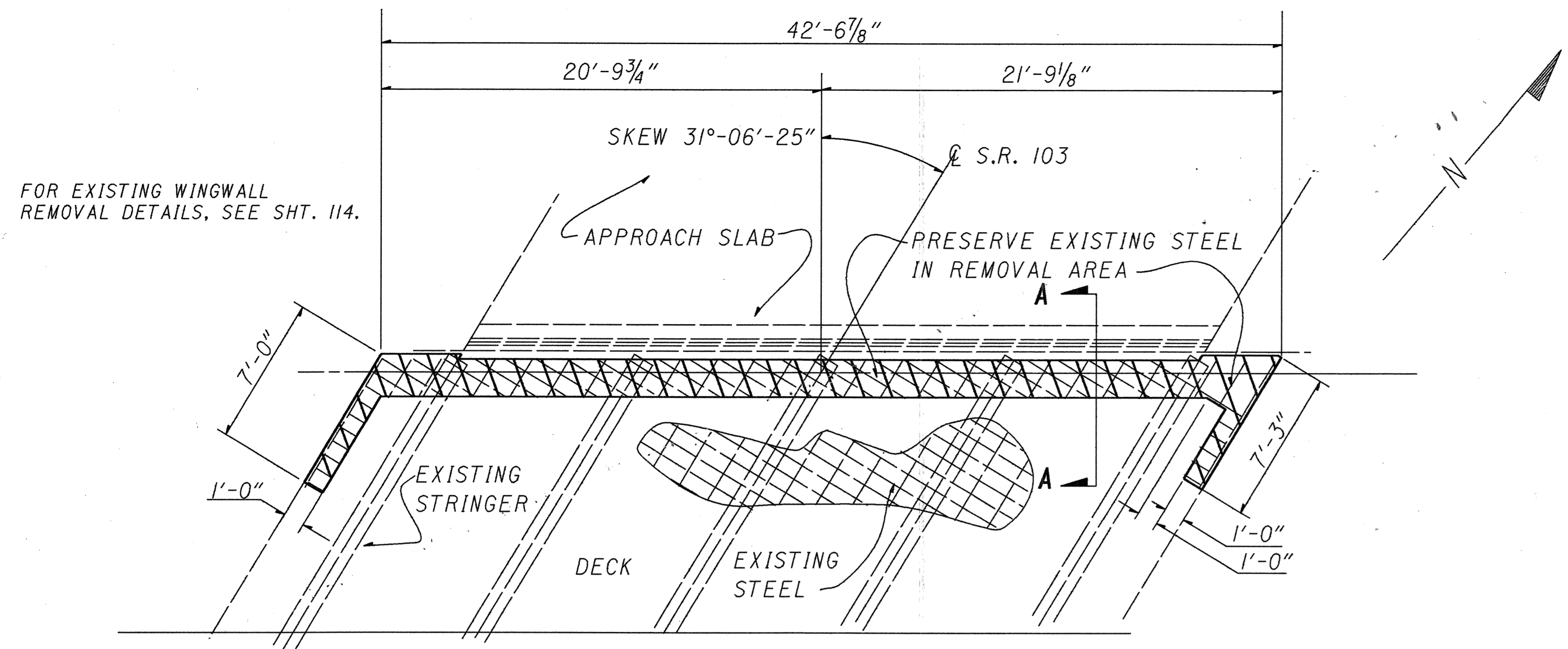
DIMENSION "A"

TEMPERATURE, F°	"A", INCHES
30	1.888
40	1.800
50	1.700
60	1.613
70	1.513
80	1.425
90	1.325

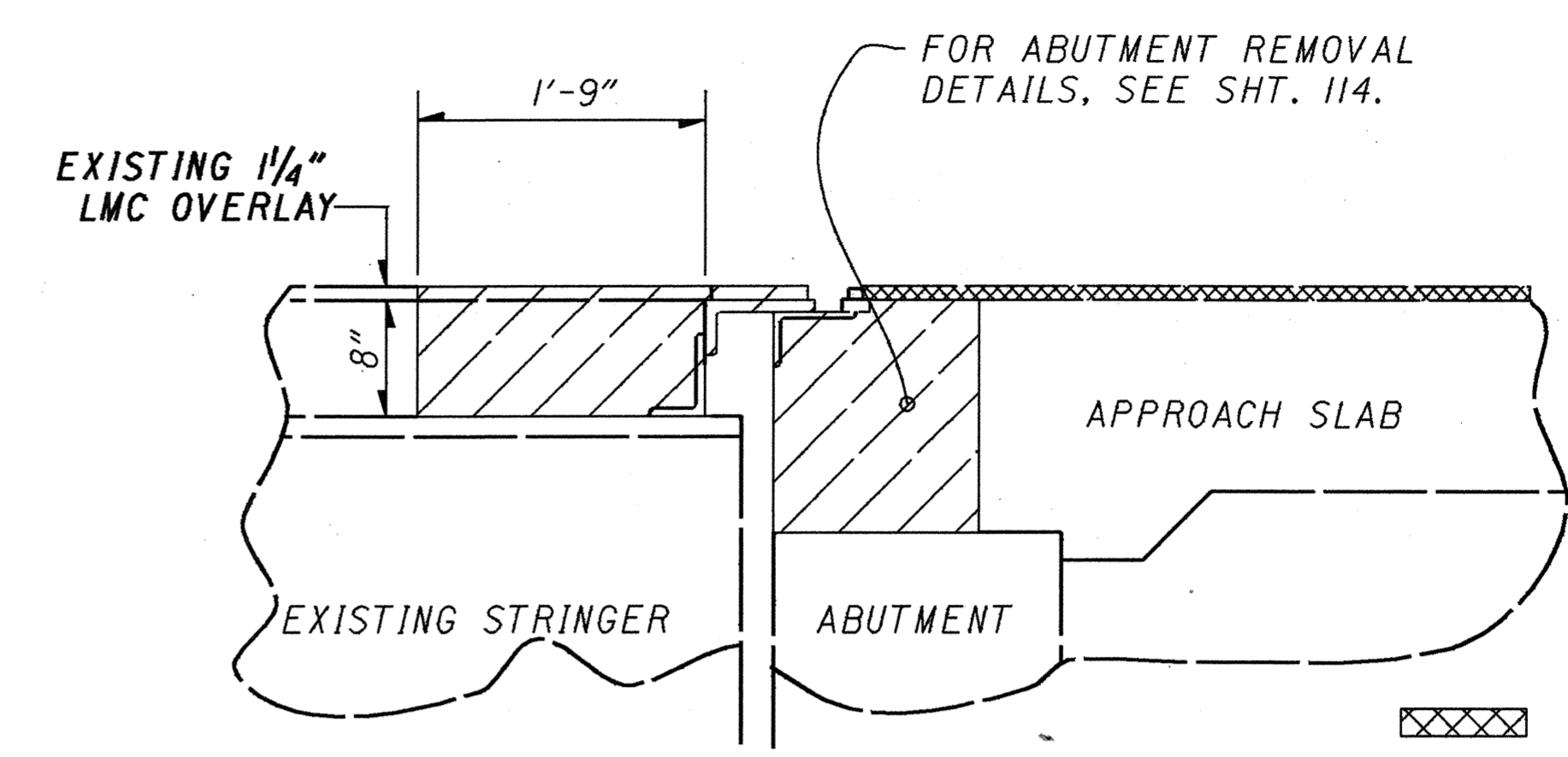
NOTE: FOR FURTHER DETAILS SEE STD. DWG. EXJ-4-87

DESIGN FILE : I:\dgn\benfley\at7522pd2.dgn
 USERNAME : nick
 DATE : 27-JAN-1993
 TIME : 10:03

STATE OF OHIO		6/16	
DEPARTMENT OF TRANSPORTATION			
DISTRICT ONE		PLANNING AND DESIGN DEPARTMENT	
SUPERSTRUCTURE REHABILITATION DETAILS			
STR. NO ALL-75-2212			
S.R. 103 OVER I.R. 75 @ SOUTH ABUTMENT			
SFN 0203548			
DESIGNED	DRAWN	TRACED	CH. CKED
RLS	RLS	RLS	JIC
REVIEWED	DATE	REVISED	
DMK	1/22/93		

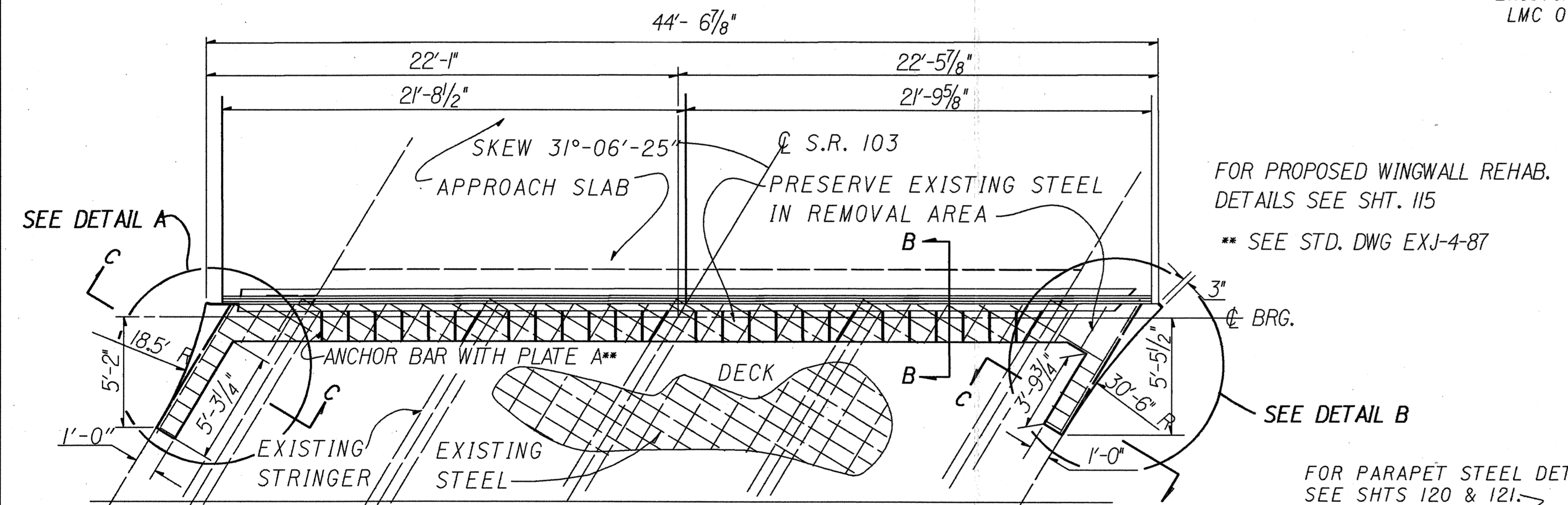


EXISTING SUPERSTRUCTURE REMOVAL PLAN @ NORTH ABUTMENT

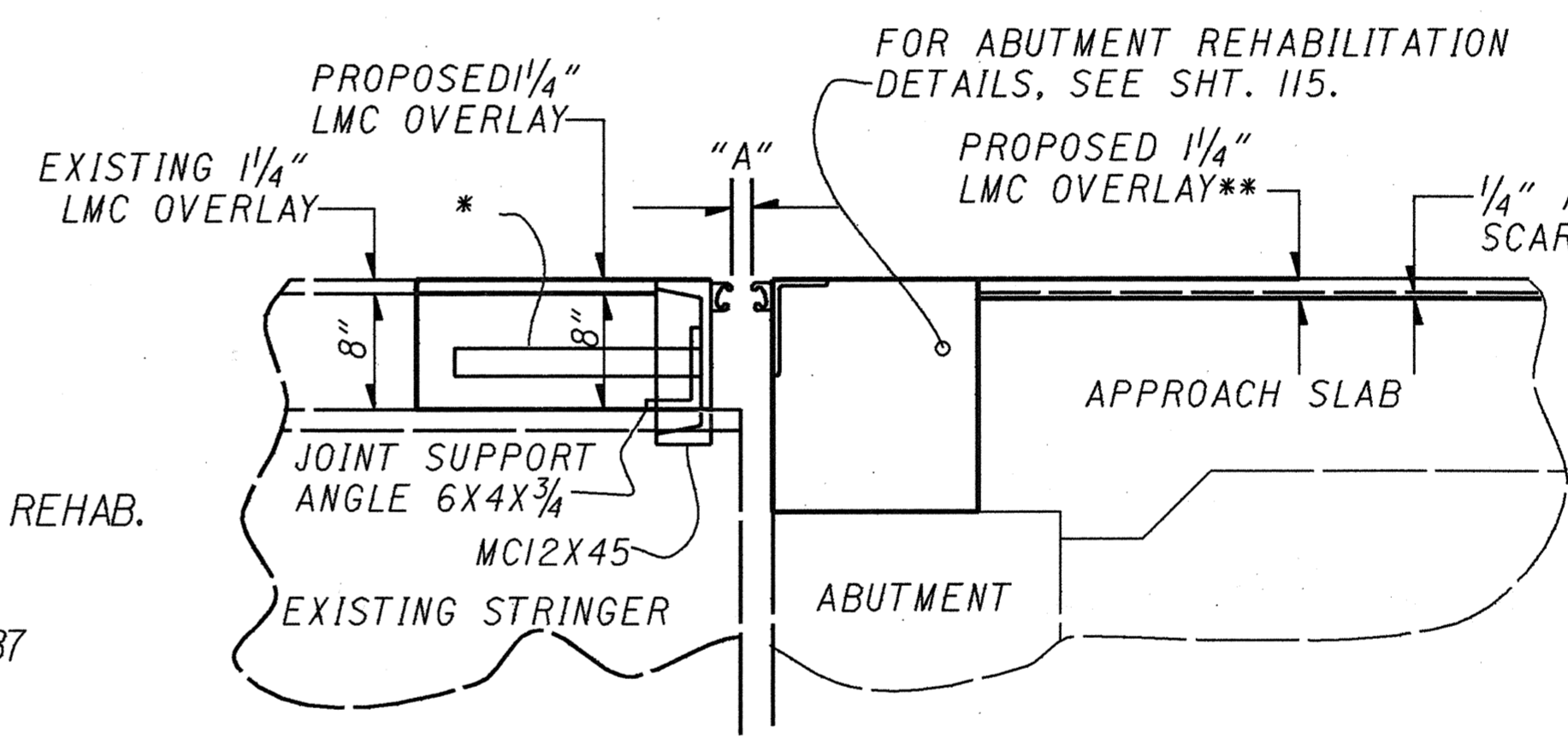


EXISTING SECTION A-A

ITEM 202 WEARING COURSE REMOVED **
 TO BE REMOVED UNDER ITEM 202 PORTIONS OF A STRUCTURE REMOVED
 ** INCLUDED WITH ROADWAY QUANTITIES



PROPOSED SUPERSTRUCTURE RECONSTRUCTION PLAN @ NORTH ABUTMENT



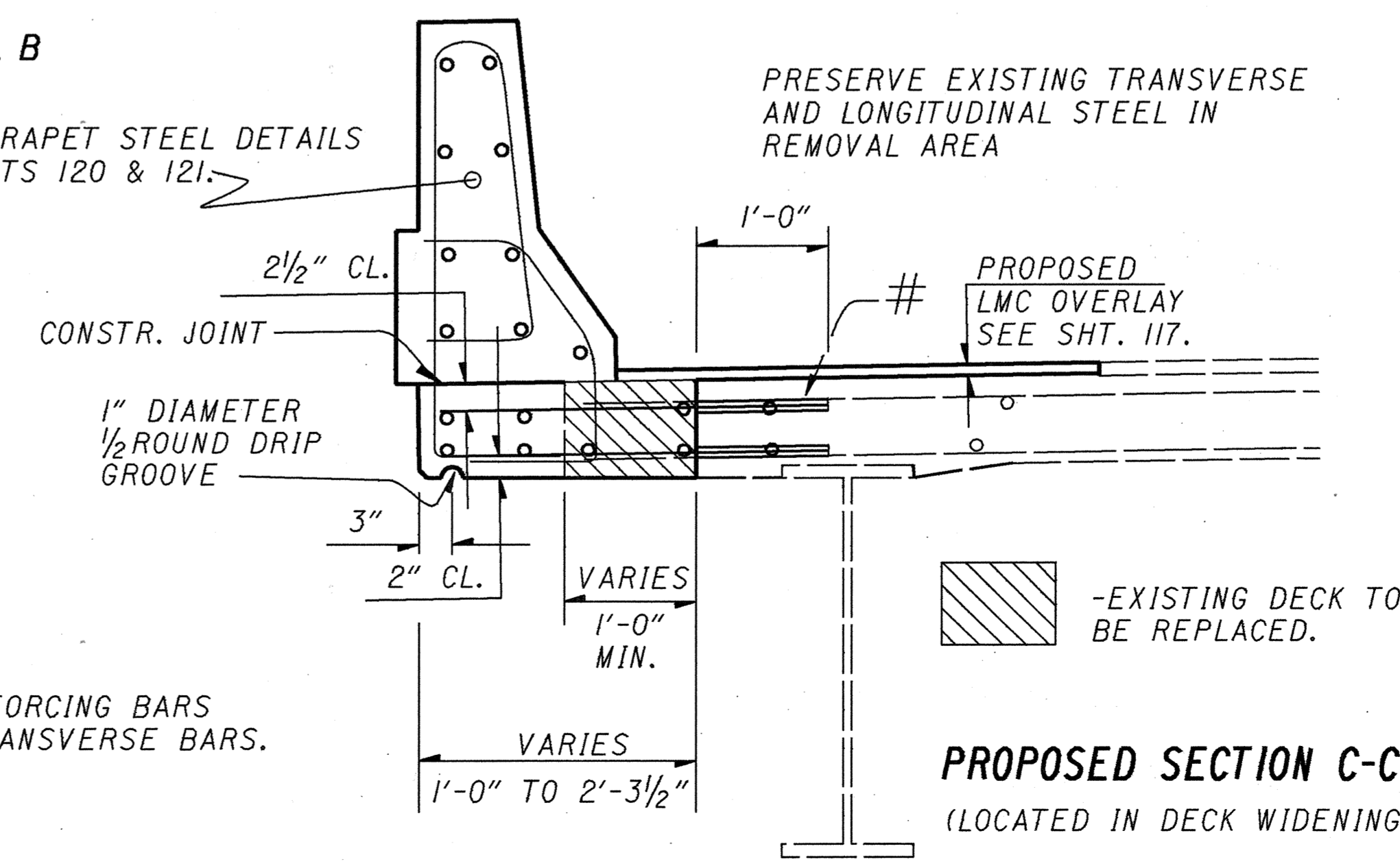
PROPOSED SECTION B-B

NOTE: FOR FURTHER DETAILS SEE STD. DWG. EXJ-4-87

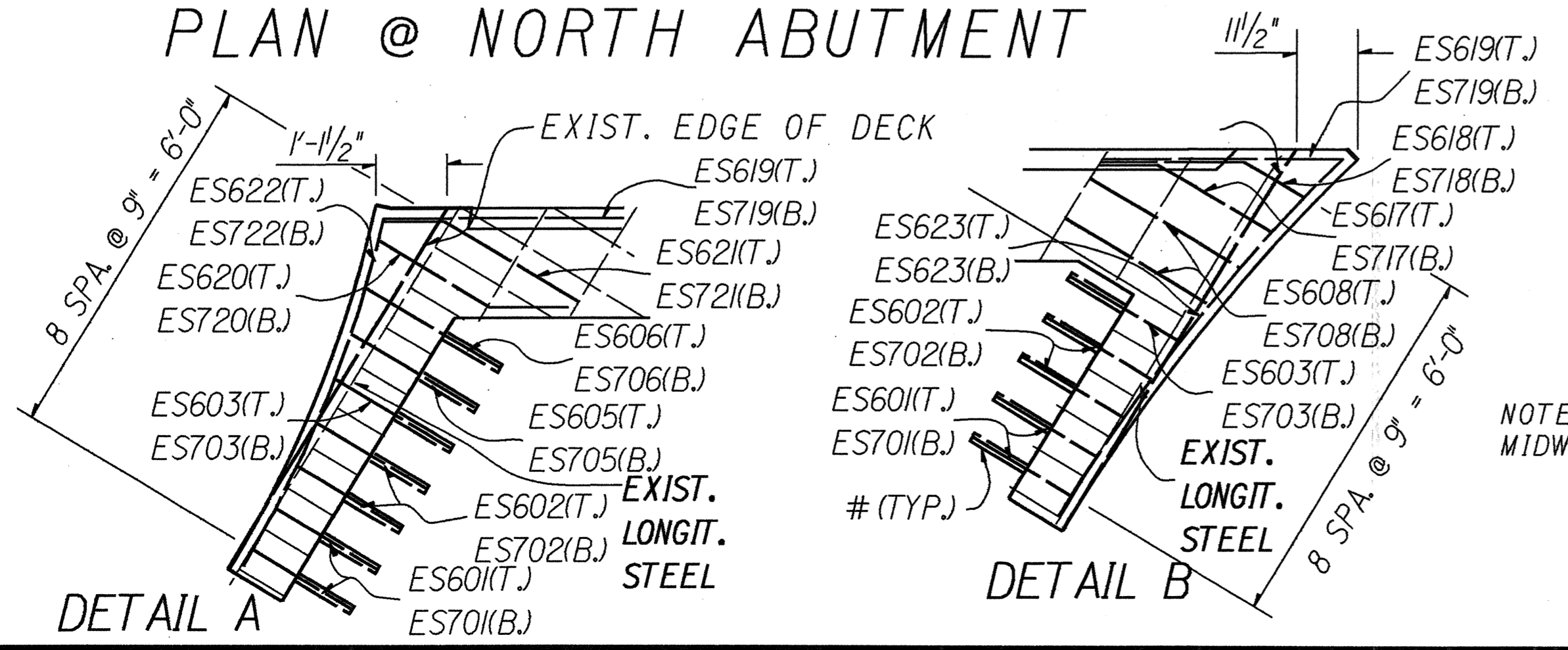
* ANCHOR BARS (TYP.). FOR SPACING REFER TO SHT. 122. A SO REFER TO STD. DWG. EXJ-4-87 FOR ADDITIONAL DETAILS.

DIMENSION "A"

TEMPERATURE, F°	"A", INCHES
30	1.888
40	1.800
50	1.700
60	1.613
70	1.513
80	1.425
90	1.325



PROPOSED SECTION C-C (LOCATED IN DECK WIDENING AREA)



KEY-
(T.)- TOP
(B.)- BOTTOM

NOTE- PLACE PROPOSED REINFORCING BARS MIDWAY BETWEEN EXISTING TRANSVERSE BARS.

- GROUT PROPOSED REINFORCING BARS INTO HOLES DRILLED IN EXISTING CONCRETE IN ACCORDANCE WITH SS 852 & SPEC 705.20. HOLES SHALL BE 12" DEEP.

STATE OF OHIO
 DEPARTMENT OF TRANSPORTATION
 DISTRICT ONE PLANNING AND DESIGN DEPARTMENT

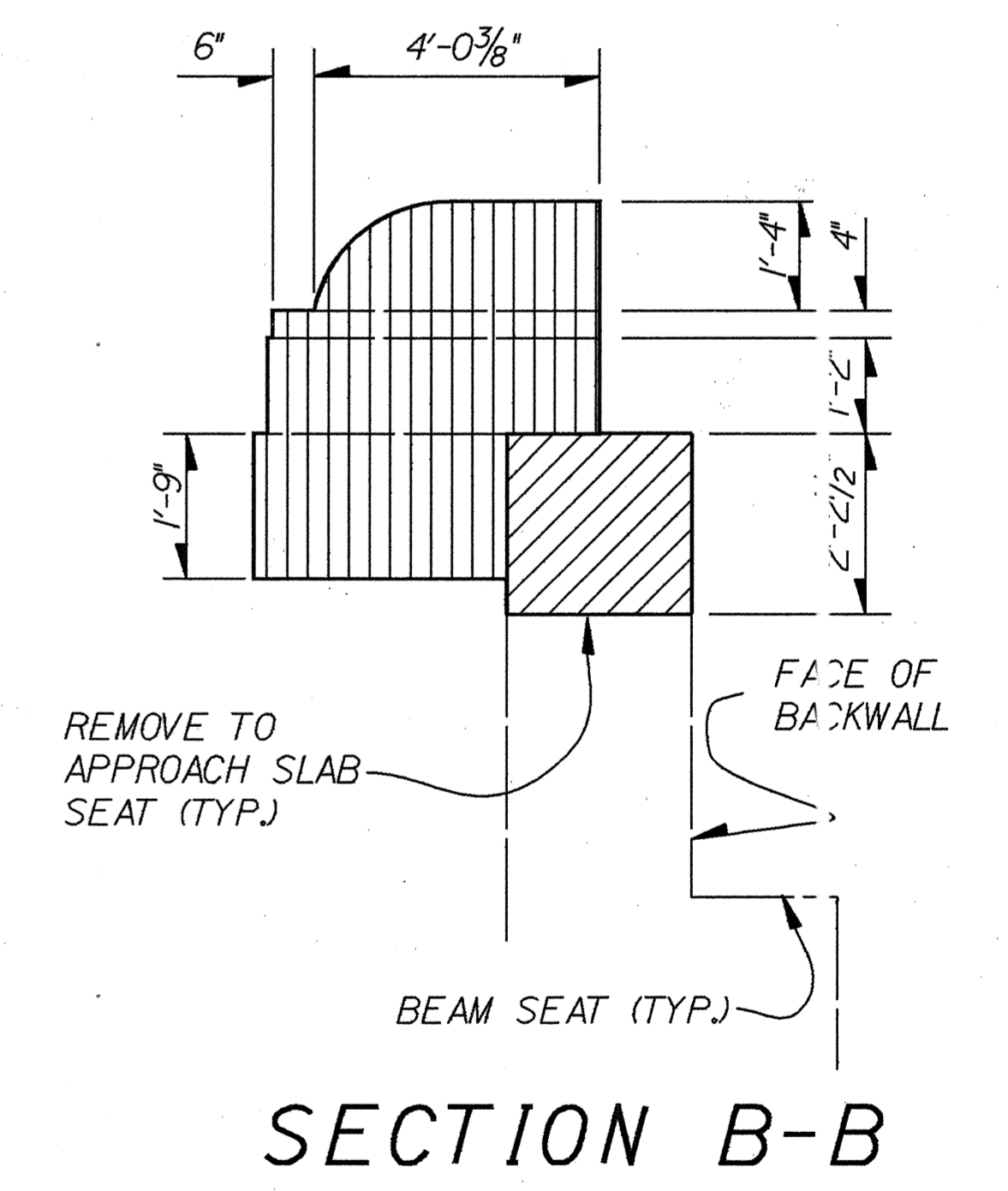
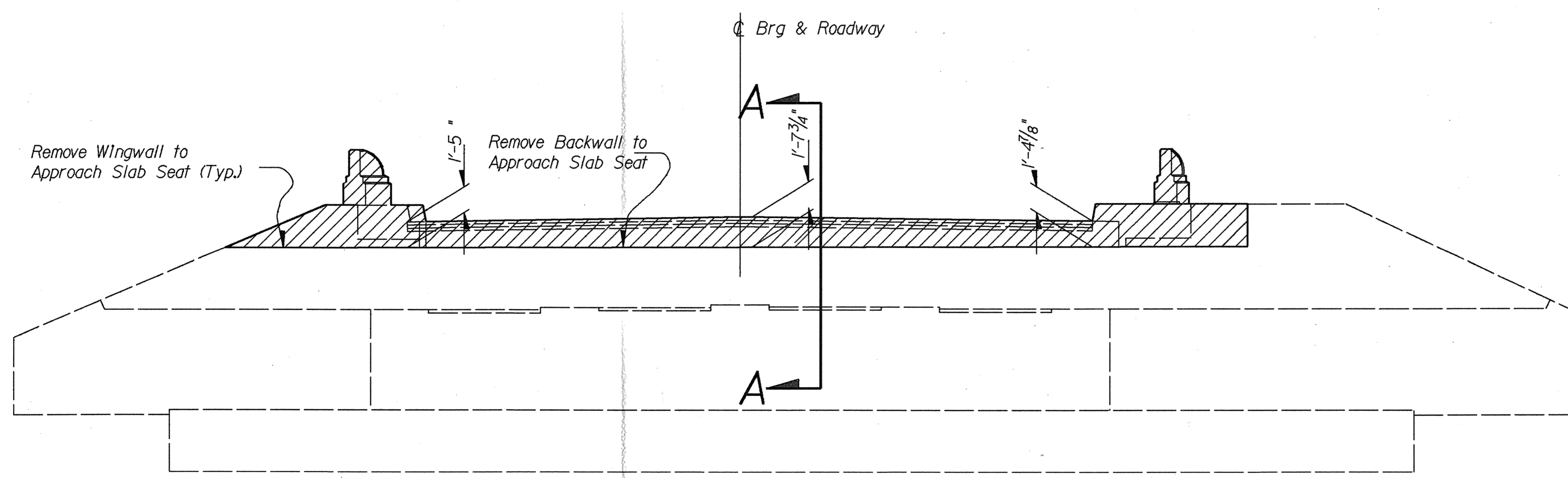
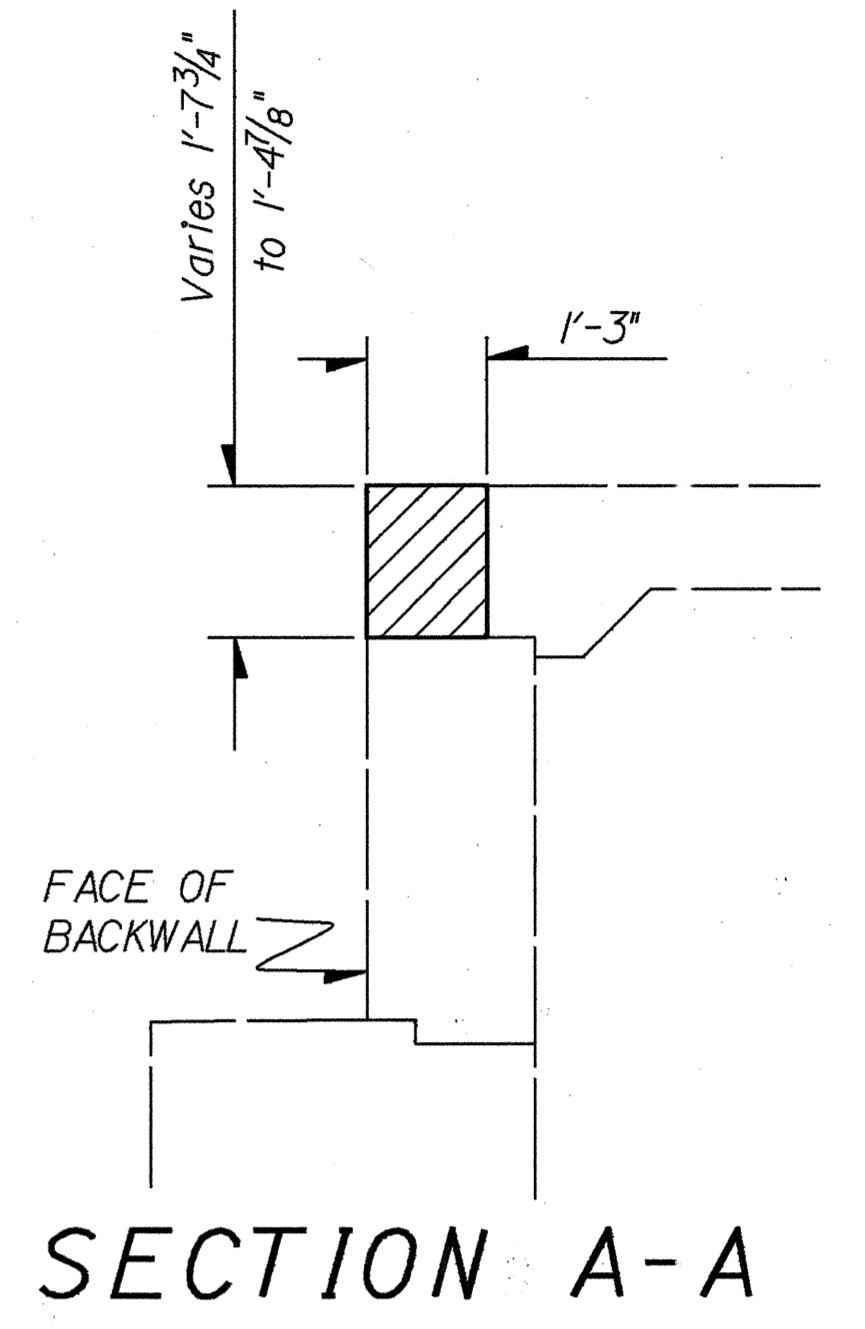
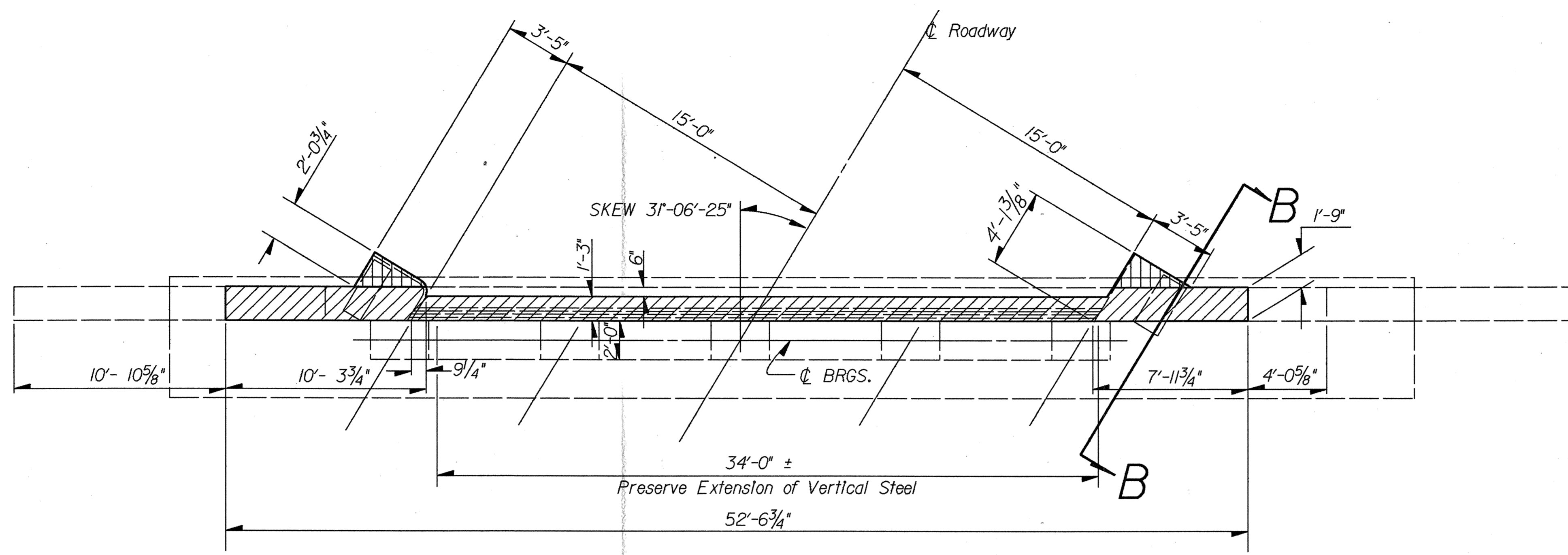
SUPERSTRUCTURE REHABILITATION DETAILS
 STR. NO ALL-75-22.12
 S.R. 103 OVER I.R. 75 @ NORTH ABUTMENT
 SFN 0203548

DESIGNED	DRAWN	TRACED	CH. CKD	REVIEWED	DATE	REVISED
RLS	RLS	RLS	JFC	JMK	1/28/93	

DESIGN FILE : i:\dgn\bentley\at7522pd2.dgn
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 DATE : 27-JAN-1993
 TIME : 10:20

DESIGN FILE : i:\dgn\bentley\at7522ad2.dgn
 USERNAME : nick

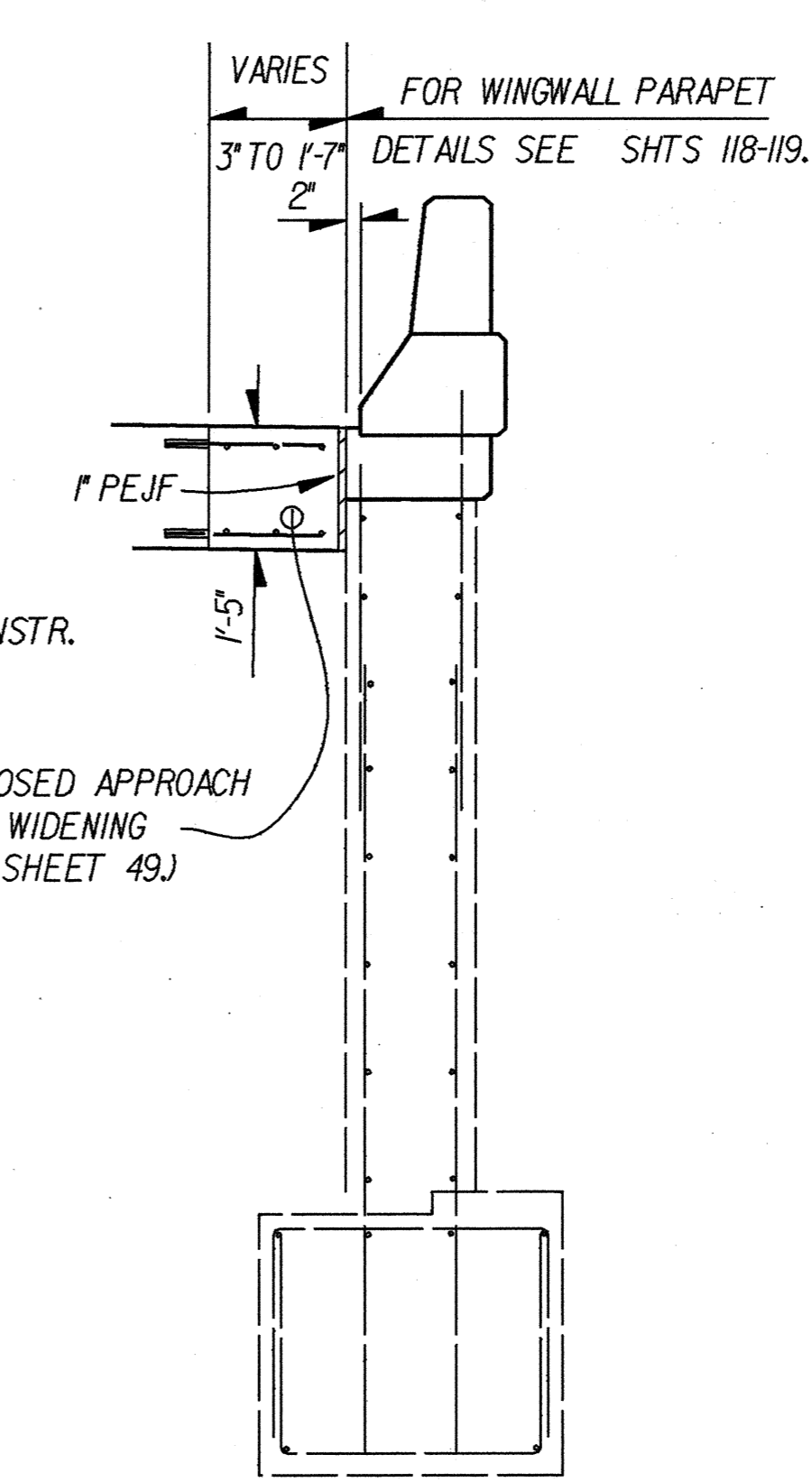
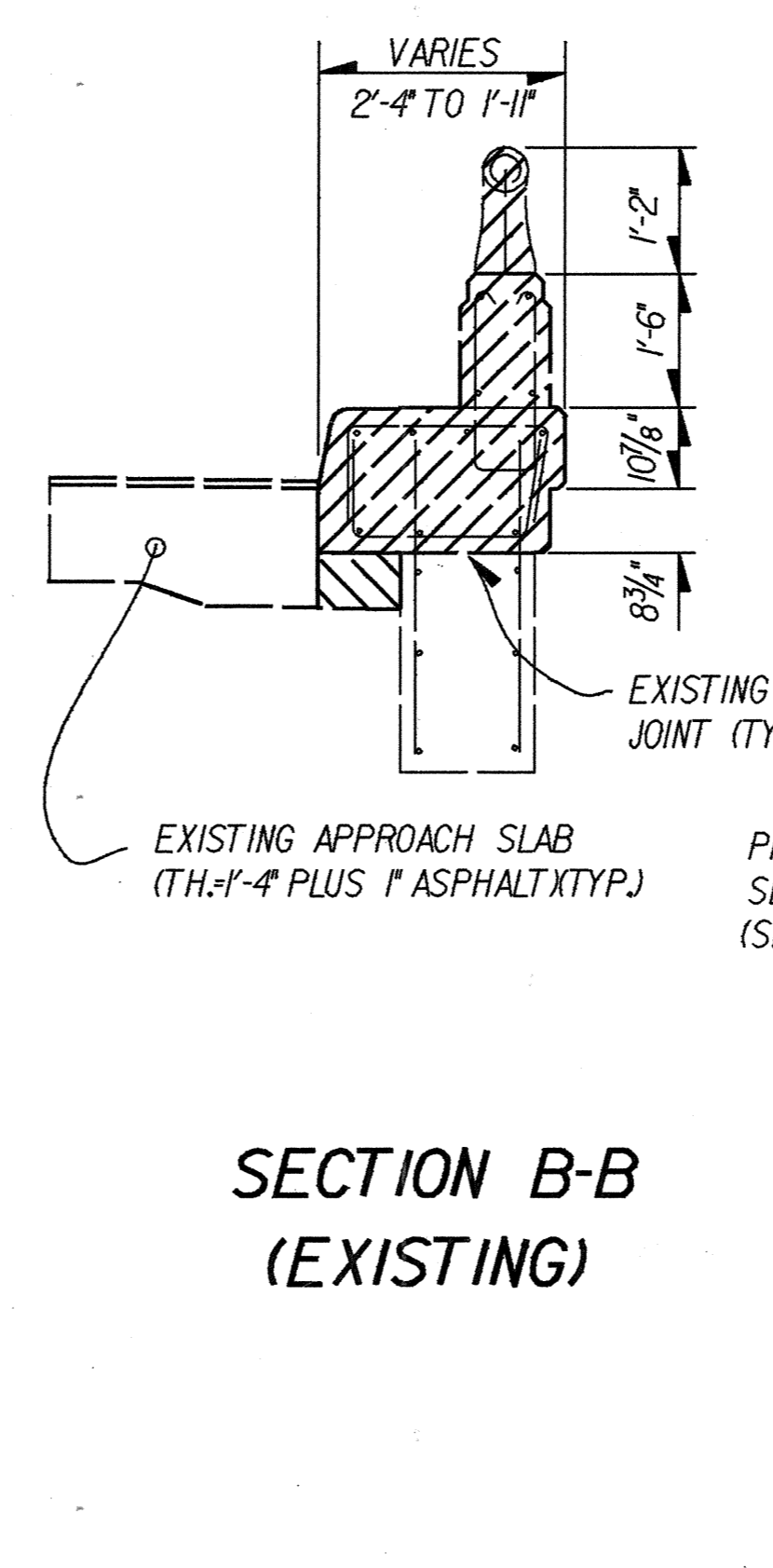
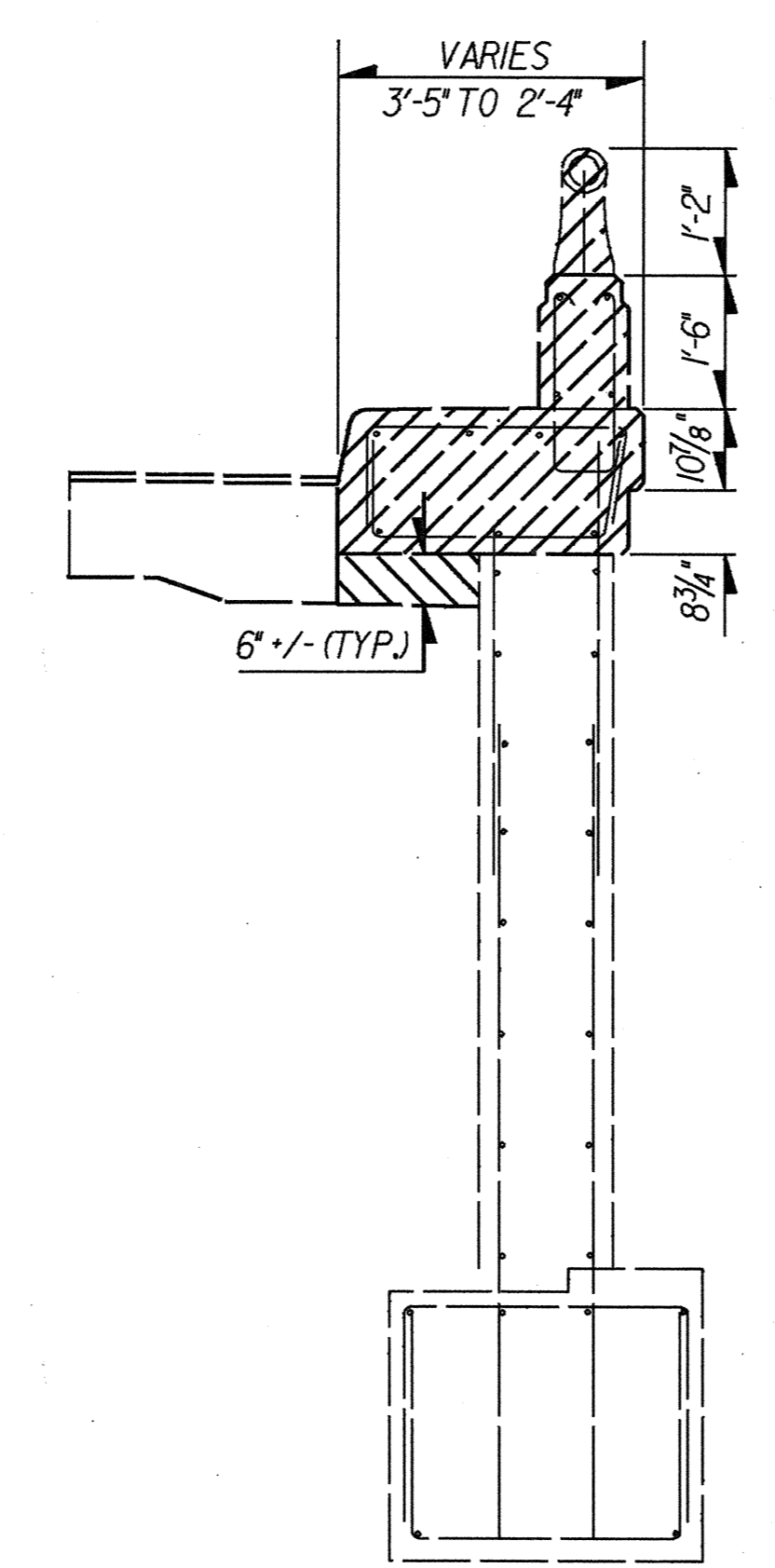
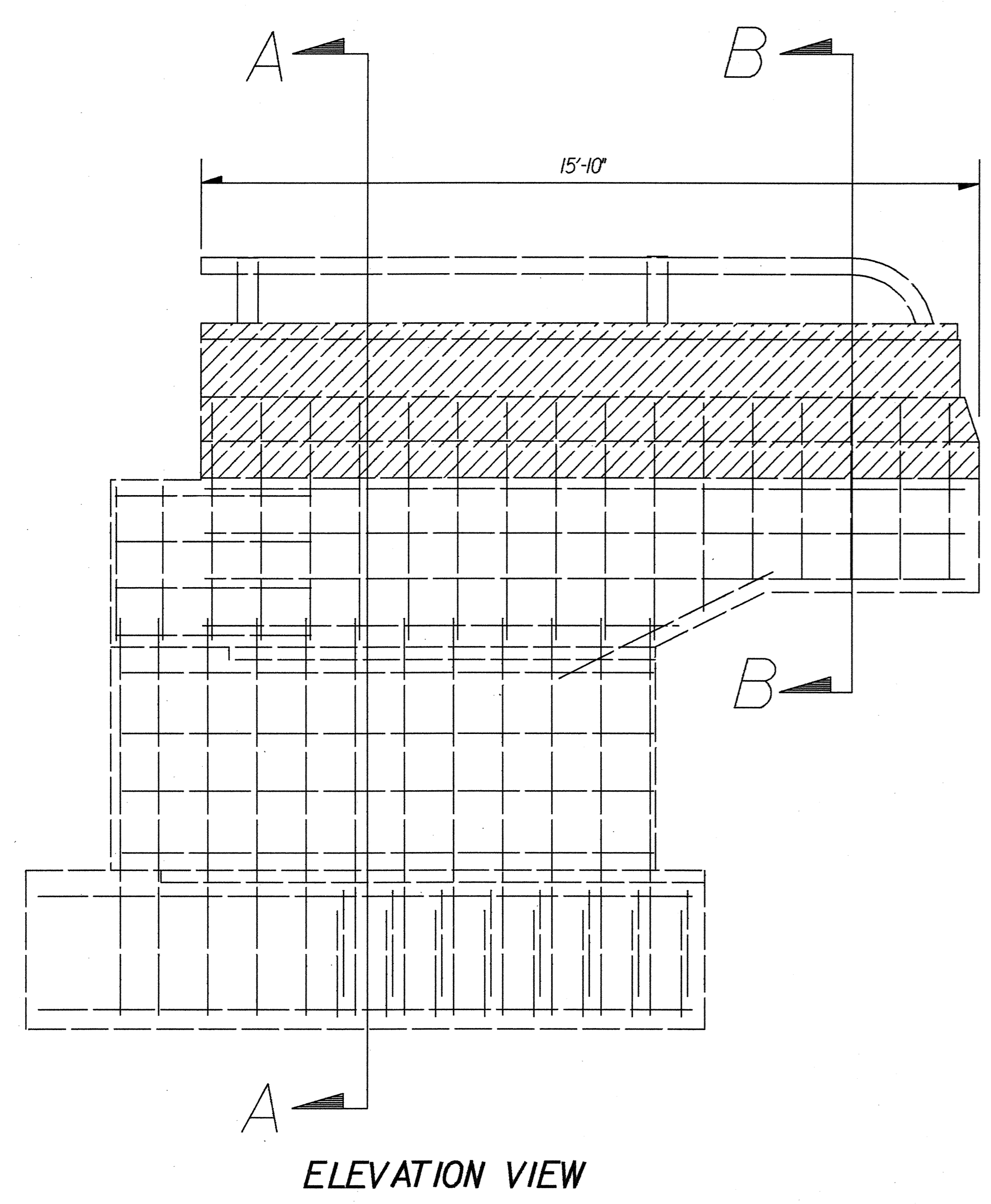
DATE : 27-JAN-1993
 TIME : 10:26



LEGEND

- REMOVE BACKWALL TO APPROACH SLAB SEAT
- REMOVE SAFETY CURB

STATE OF OHIO		8 / 16	
DEPARTMENT OF TRANSPORTATION			
DISTRICT ONE PLANNING AND DESIGN OFFICE			
ABUTMENT REMOVAL DETAILS			
BR. NO. ALL-75-2212			
S.R. 103 OVER			
I.R. 75 @ NORTH ABUTMENT			
SFN 0203548			
DESIGNED	DRAWN	TRACED	CHECKED
REVIEWED	DATE	REVISION	
RLS	RLS	RLS	JRK
	1/28/93		



SECTION A-A (EXISTING)

SECTION B-B (EXISTING)

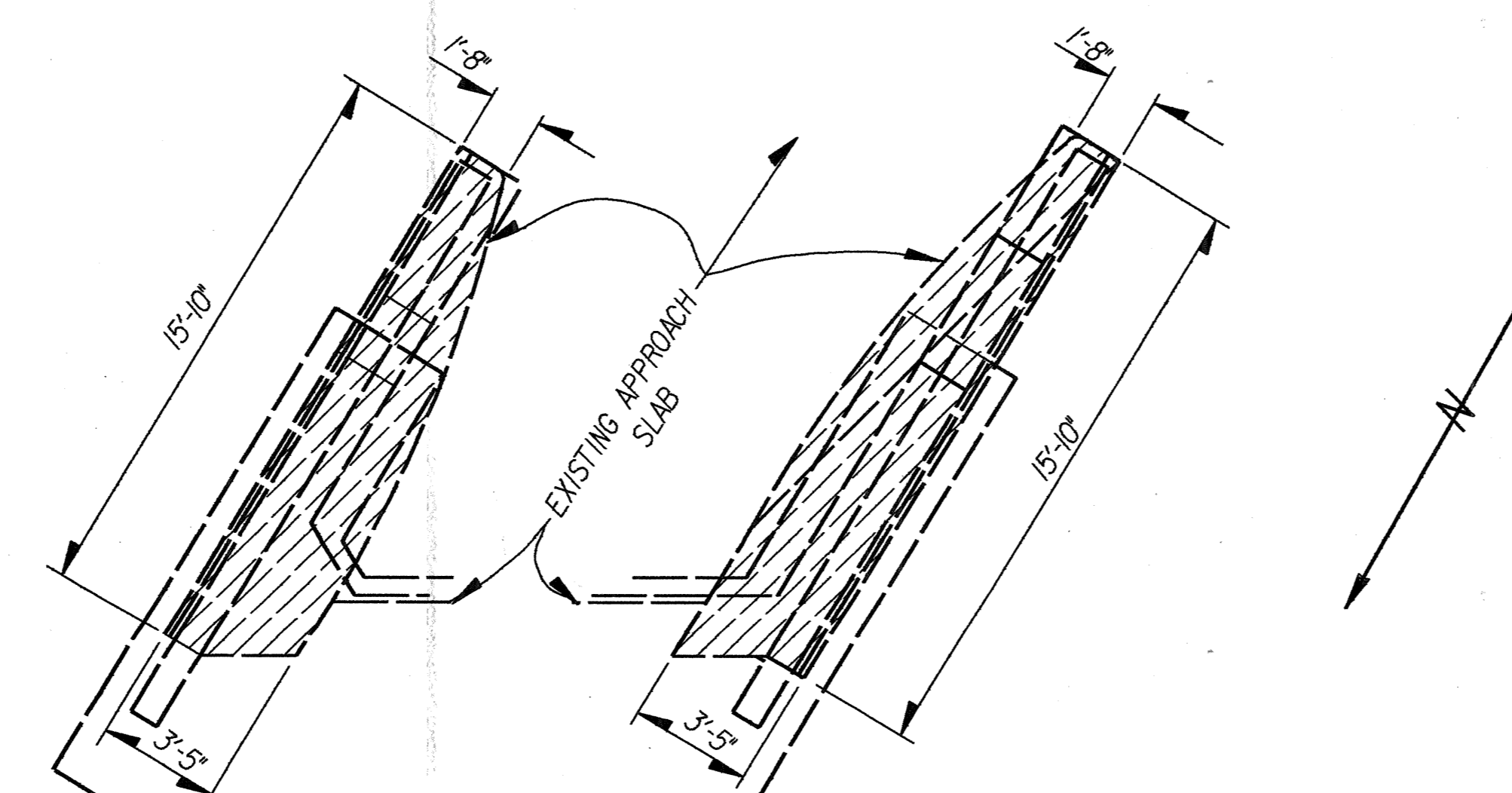
SECTION A-A (PROPOSED)

LEGEND

ITEM 202 PORTIONS OF STRUCTURE REMOVED
 ITEM 203 EXCAVATION

NOTE: PRESERVE EXTENSIONS ON ALL EXISTING VERTICAL STEEL
 NOTE: FOR ADDITIONAL EXISTING SAFETY CURB DIMENSIONS, SEE S.I.T.III.

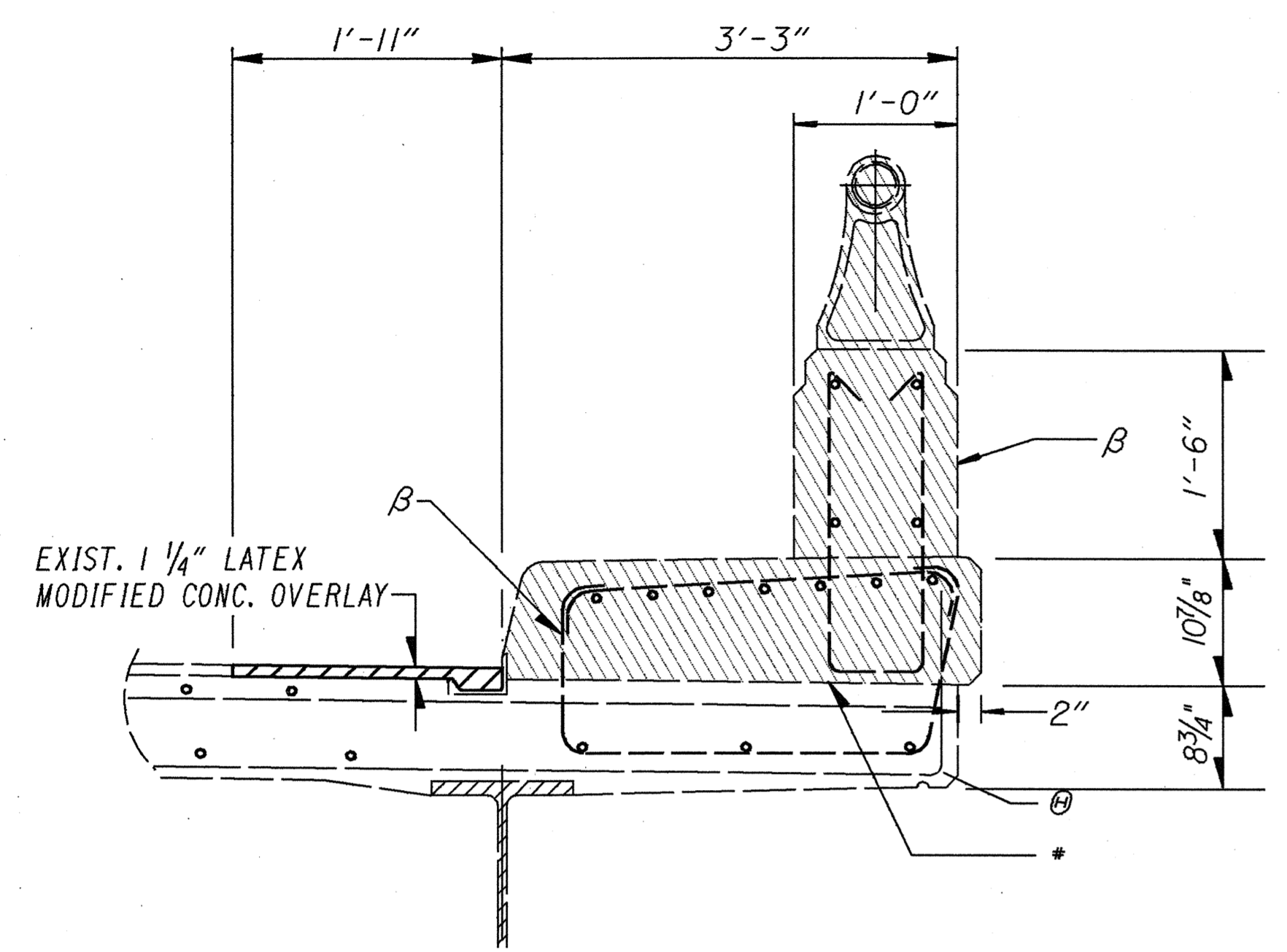
NOTE: REMOVAL OF EXISTING SAFETY CURBS AND PARAPETS INCLUDED WITH BRIDGE QUANTITIES. ALL OTHER WORK TO WIDEN APPROACH SLAB INCLUDED WITH ROADWAY QUANTITIES



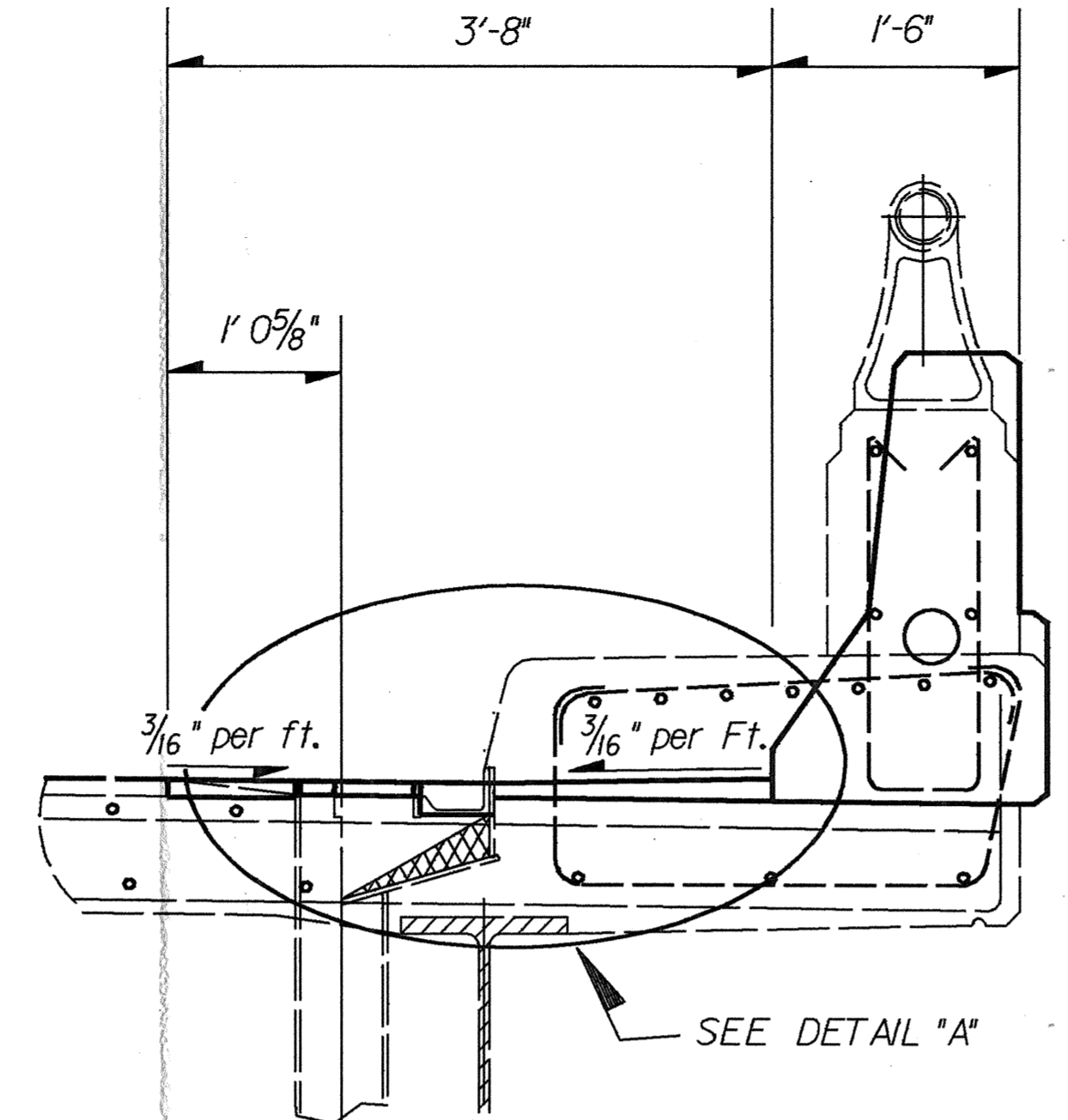
EXISTING PARAPET AND SAFETY CURB REMOVAL DETAIL

STATE OF OHIO		10 / 16	
DEPARTMENT OF TRANSPORTATION			
DISTRICT ONE PLANNING AND DESIGN OFFICE			
SAFETY CURB REHABILITATION DETAILS			
STR. NO. ALL-75-22J2 S.R. 10: Over I.R. 75			
SOUTH ABUTMENT			
SFN 0203548			
DESIGNED	DRAWN	TRACED	CHECKED
RCS	RLS	RLS	JRC
REVIEWED	DATE	REVISED	
JMK	1/28/92		

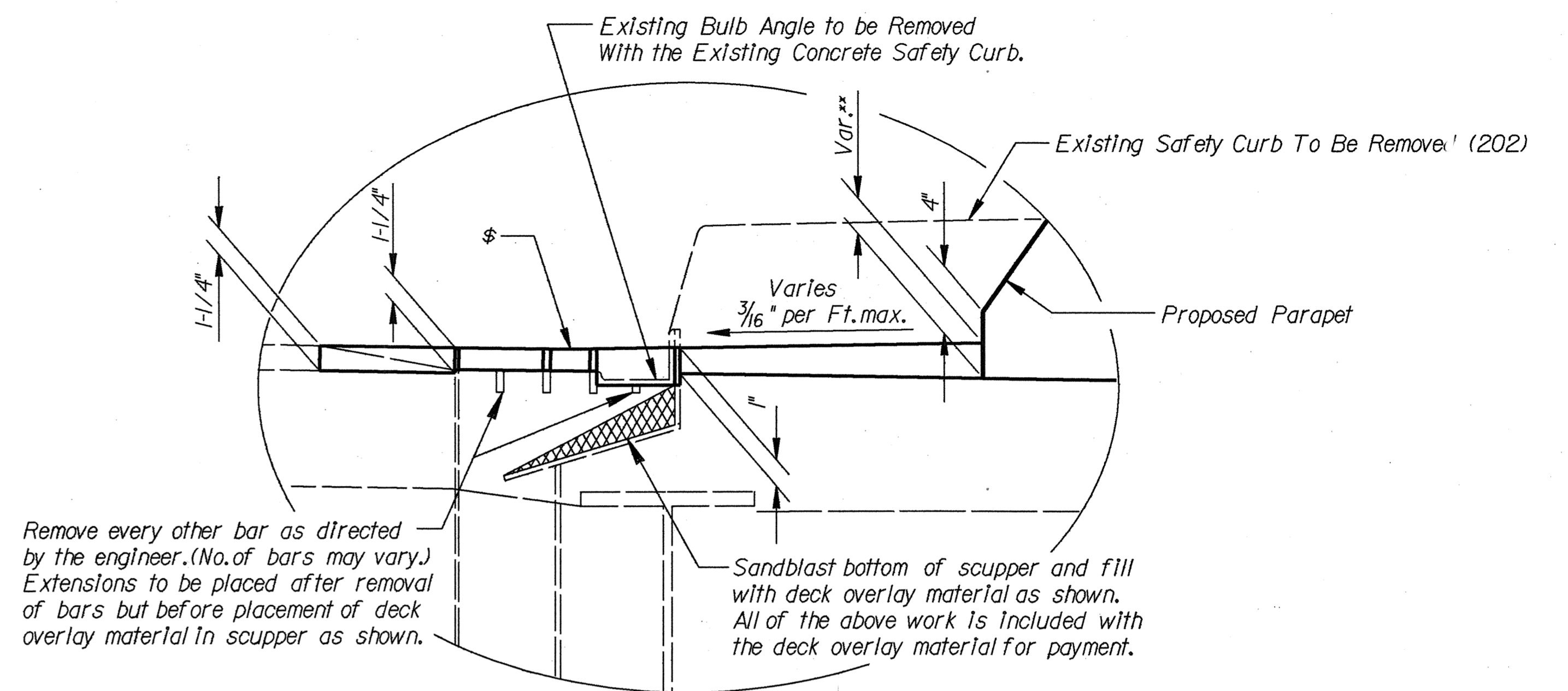
DATE : 27-JAN-1993
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 USERNAME : nick



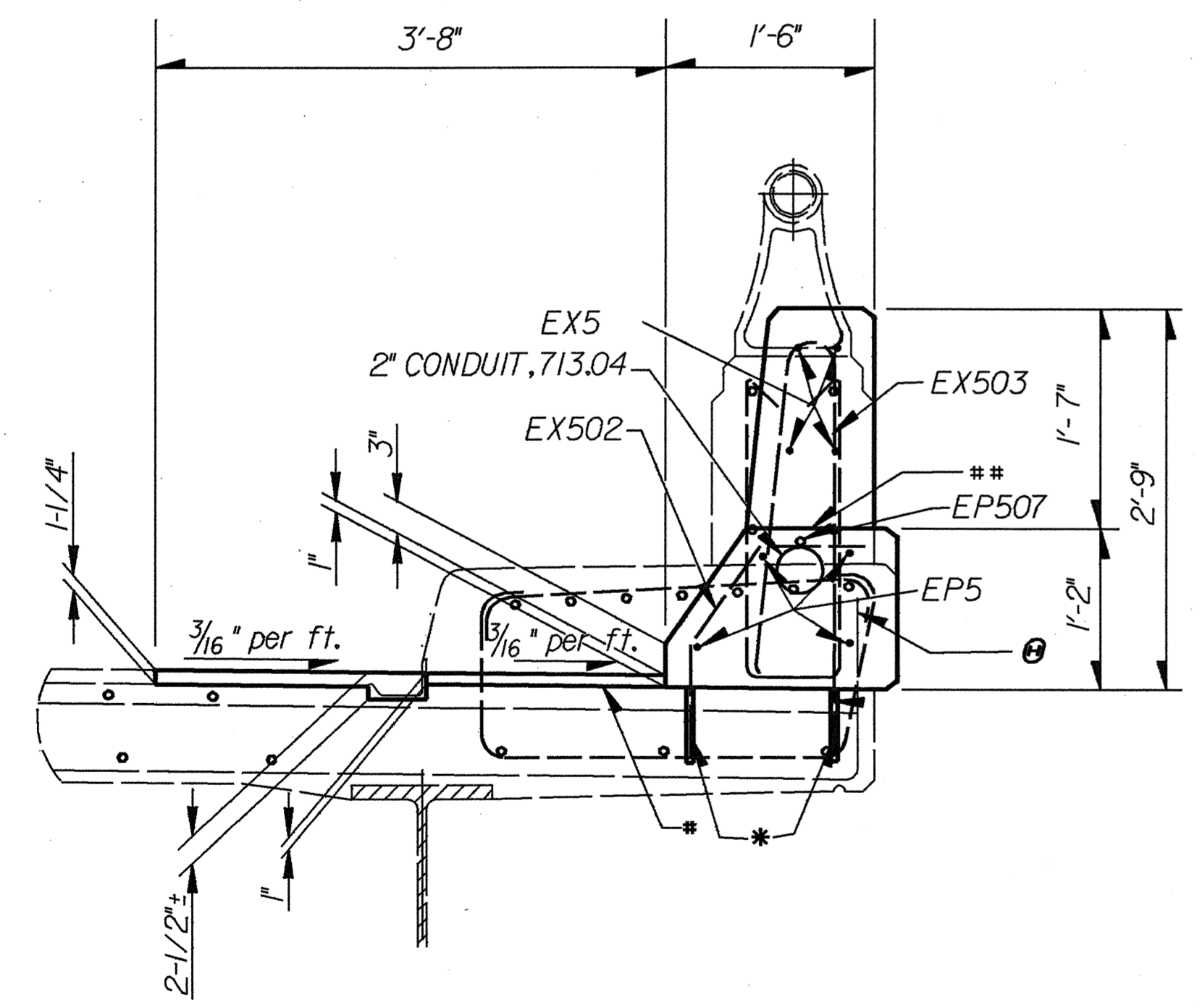
TYPICAL SECTION THRU EXISTING PARAPET ON STRUCTURE



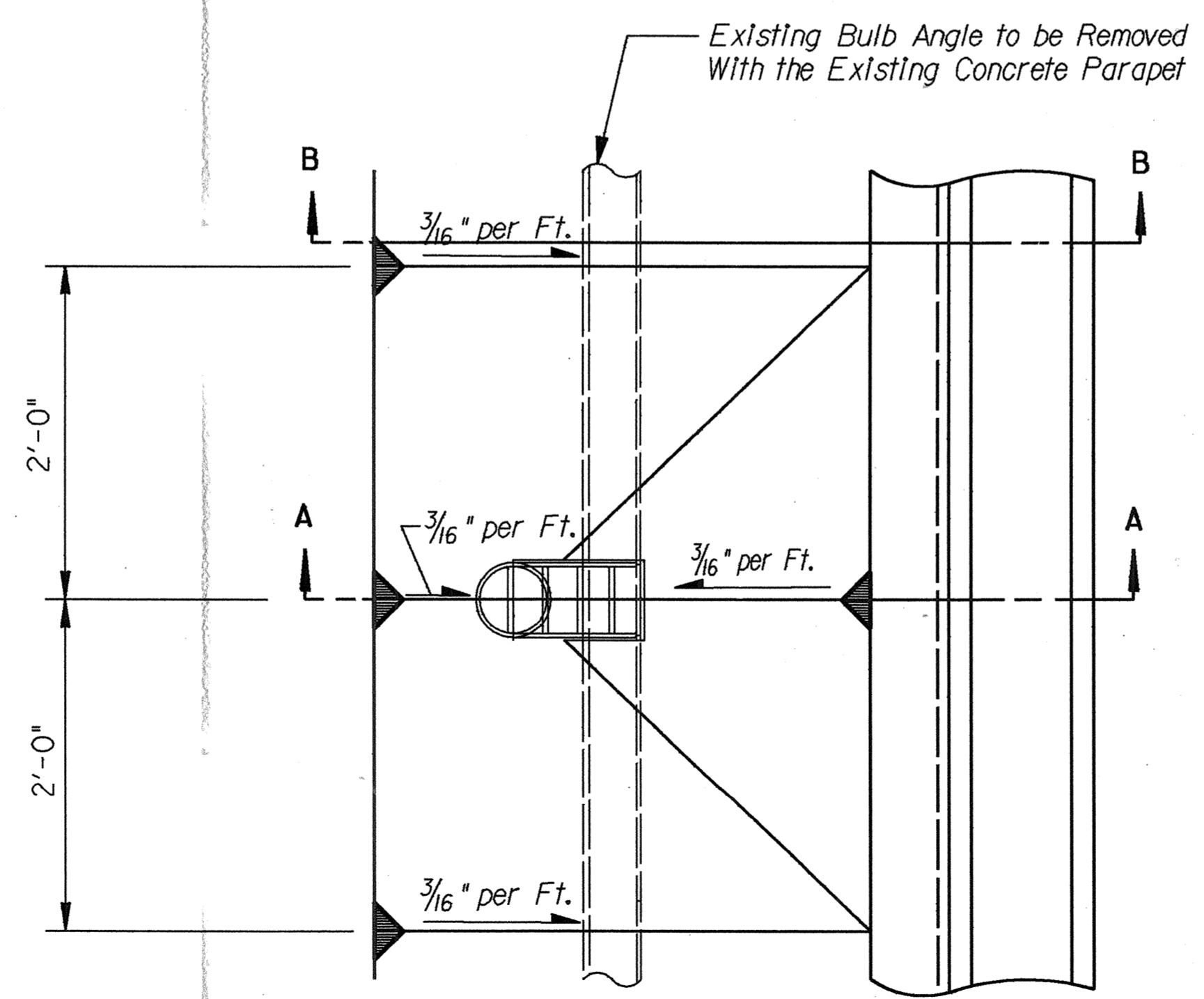
SECTION A-A
(Located at Exst. Scupper Locations)



DETAIL 'A'



SECTION B-B
TYPICAL SECTION THRU PROPOSED SAFETY SHAPE PARAPET ON STRUCTURE
(Located In Constant Width Deck Areas)



SCUPPER DETAIL PLAN VIEW

LEGEND

- 1 1/4" Existing Concrete Deck Overlay Removal (Paid as Item 202 Wearing Course Removed)
- Existing Concrete Parapet and Safety Curb to be Removed (202).
- Proposed Item 845 Latex Modified Concrete.
- ⌘ - Vertical Extension of Existing Scuppers
- * - Existing Construction Joint
- ** - Proposed Construction Joint
- ⊙ - Save existing reinforcing bar and bend, (providing 2" clearance) if necessary, to incorporate it into the proposed vertical reinforcing wherever possible.
- β - Remove existing concrete Parapet and Curb to existing construction joint. Any existing exposed reinforcing steel not noted otherwise, shall be cut off even with the removal lines. Payment under Item 202, Portions of Structure Removed.
- * - Grout proposed reinforcing bars into holes drilled into existing concrete in accordance with Supplemental Specifications 852 & Spec.705.20. Holes shall be 6" deep.
- ** - Varies From 1" min. at Normal Deck Slope of 3/16"/ft. towards Parapet Railing to 1-3/8" max. at Scupper Locations as shown at left.
- *** - EP507 centered over piers.

NOTES:

All bars shall maintain a 2" minimum clearance from outside edge of Parapet unless otherwise noted.

Drawings not to scale.

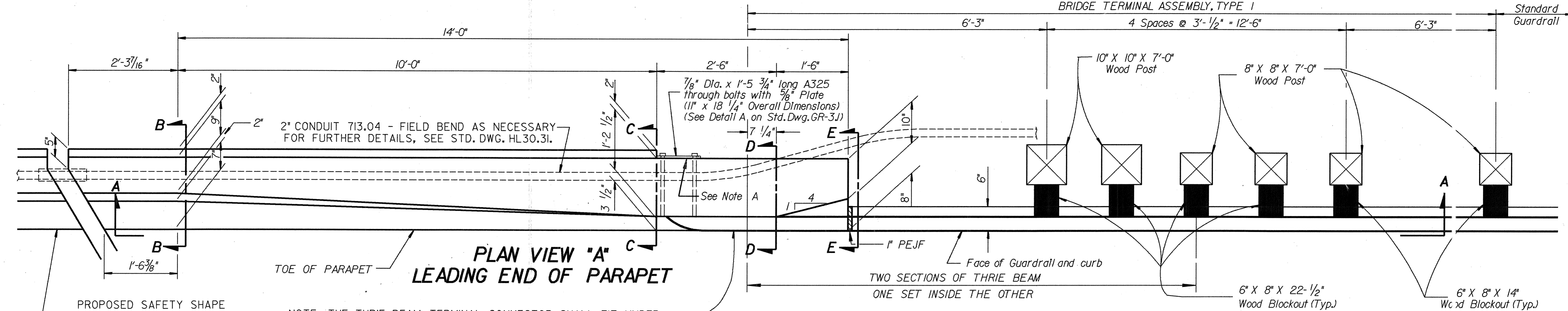
The top of the existing scupper shall be extended to the top of the proposed latex modified concrete overlay. The extension shall be paid under Item Special, Vertical Extension of Existing Scupper.

STATE OF OHIO		11 / 16	
DEPARTMENT OF TRANSPORTATION			
DISTRICT ONE PLANNING AND DESIGN OFFICE			
PARAPET REMOVAL AND RECONSTRUCTION DETAILS			
Br. No. ALL-75-22J2 S.R.103 OVER I.R.75			
SFN 0203548			
DESIGNED	DRAWN	TRACED	CHECKED
RLS	RLS	RLS	JRL
REVIEWED	DATE	REVISED	
JKM	1/28/93		

DESIGN FILE : i:\dgn\bentley\at522pd3.dgn
 USERNAME : nick
 DATE : 27-JAN-1993
 TIME : 10:57

NOTE A: SEAL 5/8" PLATE ALL AROUND WITH HYPALON. INCLUDE WITH ITEM 606, BRIDGE TERMINAL ASSEMBLY, TYPE I FOR PAYMENT.

BRIDGE TERMINAL ASSEMBLY, TYPE I



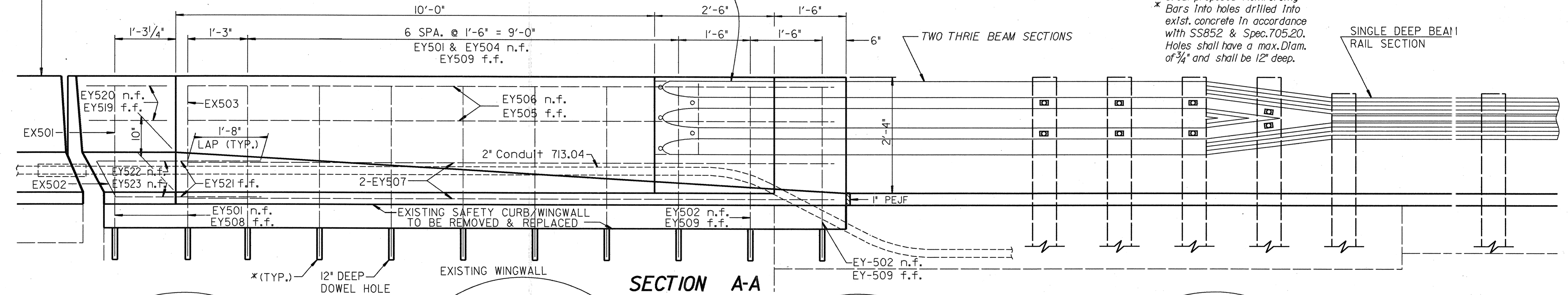
PLAN VIEW "A"
LEADING END OF PARAPET

PROPOSED SAFETY SHAPE PARAPET ON BRIDGE FOR DETAILS SEE SHT 120.

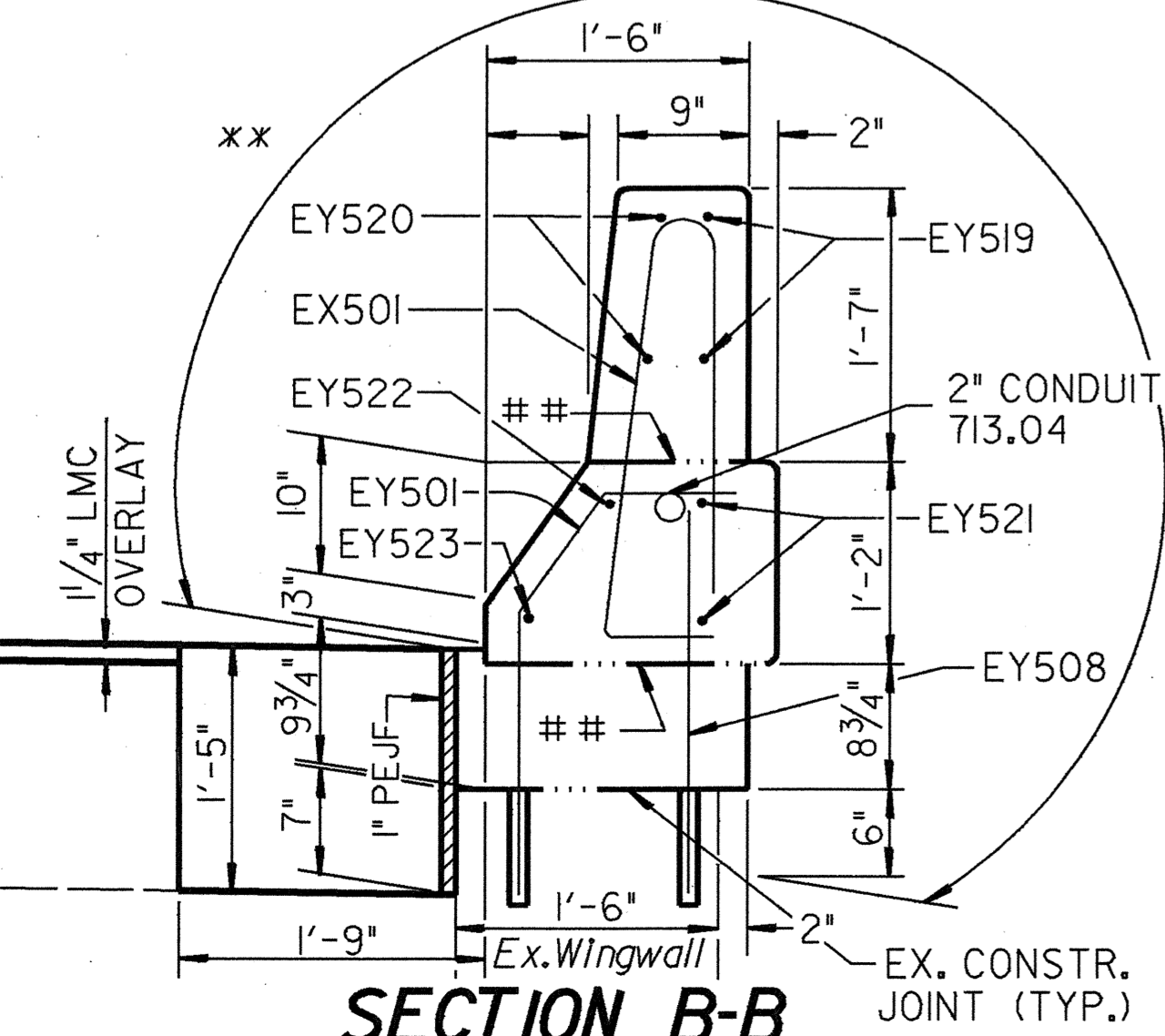
NOTE: THE THRIE BEAM TERMINAL CONNECTOR SHALL FIT UNDER THE STANDARD GUARDRAIL SECTION AT THE APPROACH END. ALL LAPS SHALL BE IN THE DIRECTION OF TRAFFIC

NOTE: FOR CURB AND GUARDRAIL LOCATIONS SEE SHT 33.

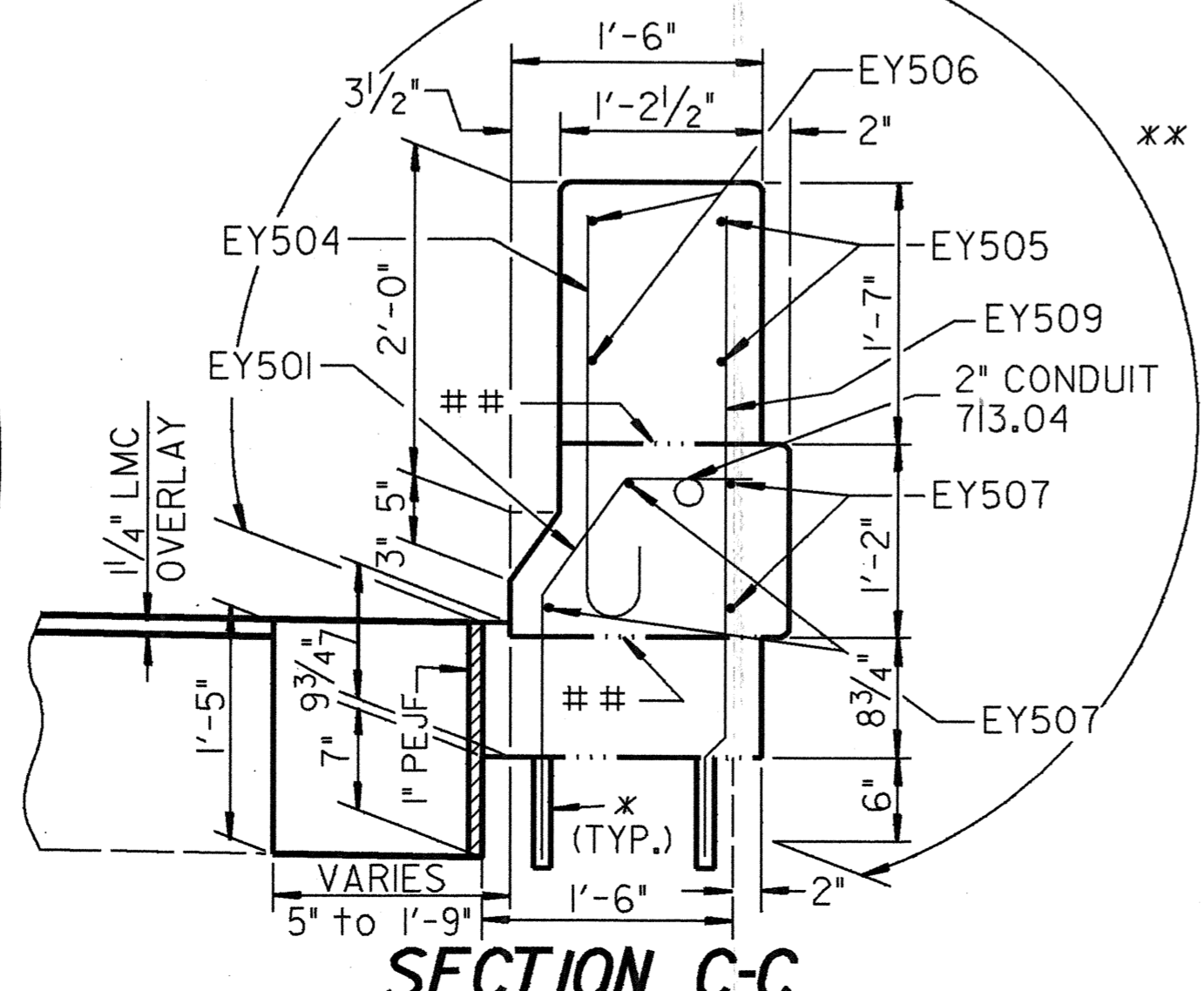
Grout proposed Reinforcing Bars into holes drilled into exist. concrete in accordance with SS852 & Spec.705.20. Holes shall have a max. diam. of 3/4" and shall be 12" deep.



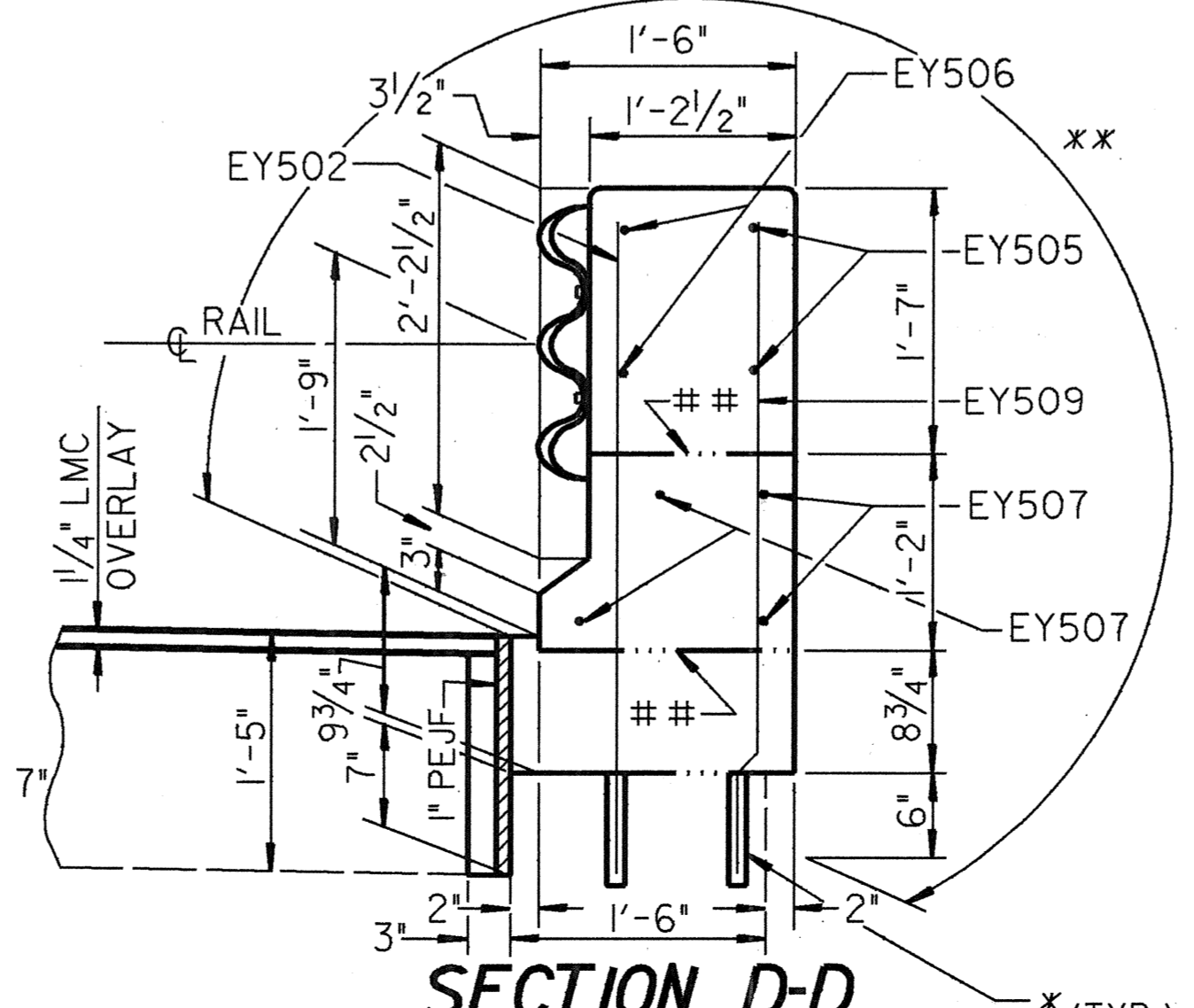
SECTION A-A



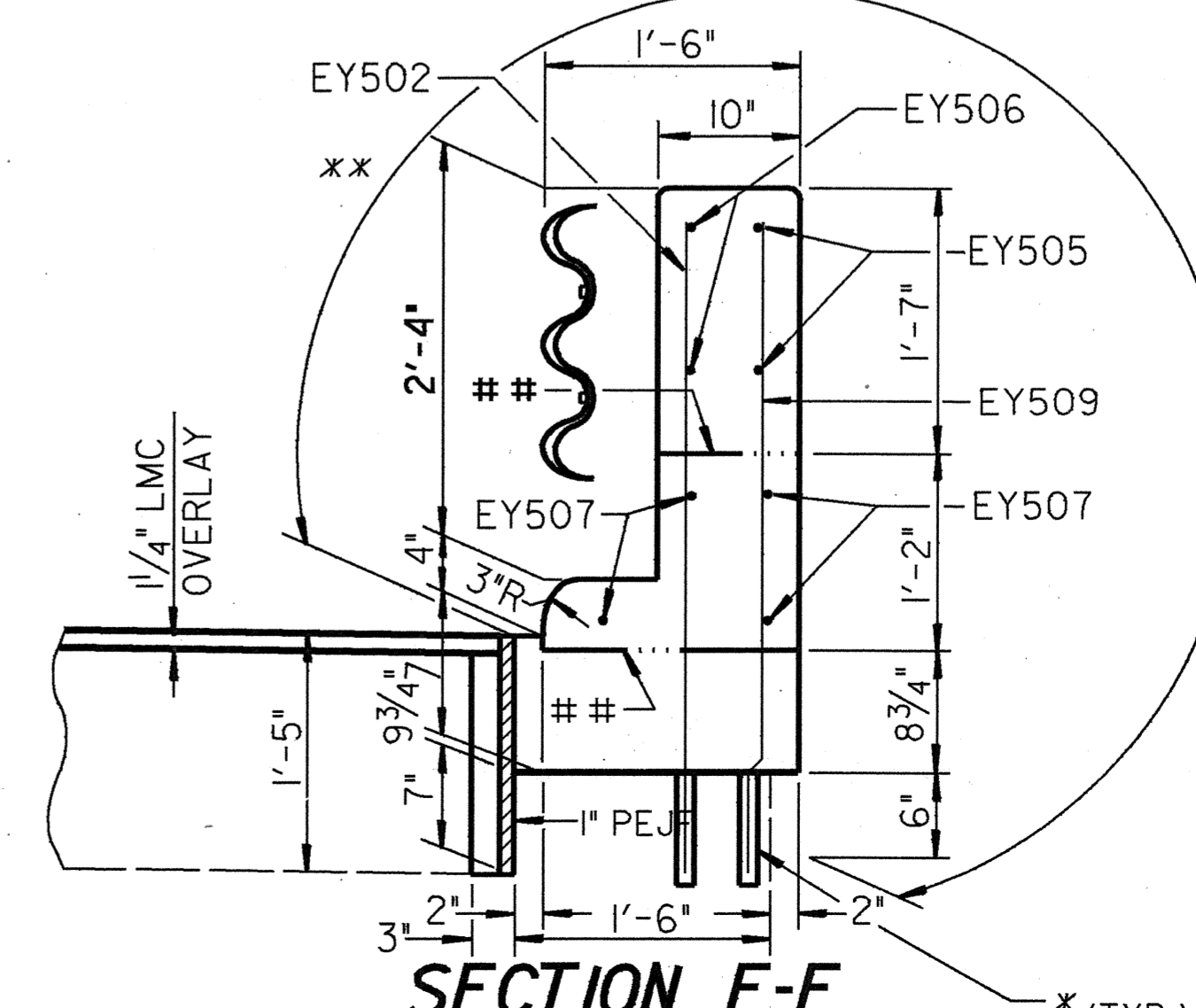
SECTION B-B



SECTION C-C



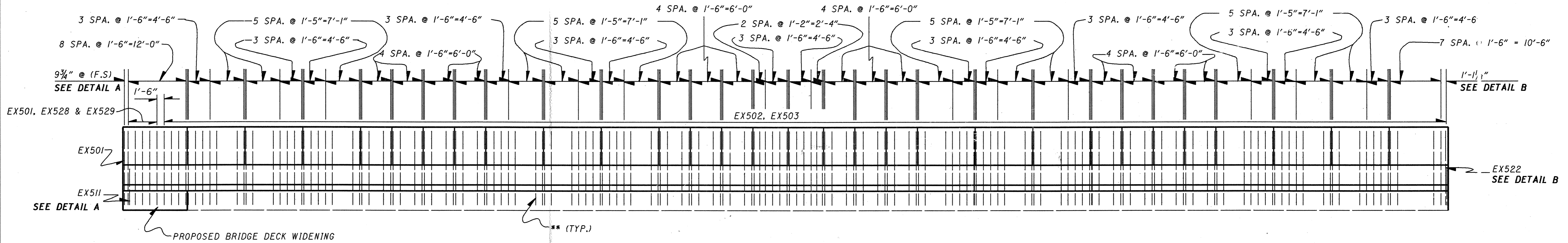
SECTION D-D



SECTION E-E

LEGEND
n.f. ~ NEAR FACE
f.f. ~ FAR FACE
~ COI STR. JOINT
** ~ COI CRETE SURFACES TO BE SEALED (EPOXY)

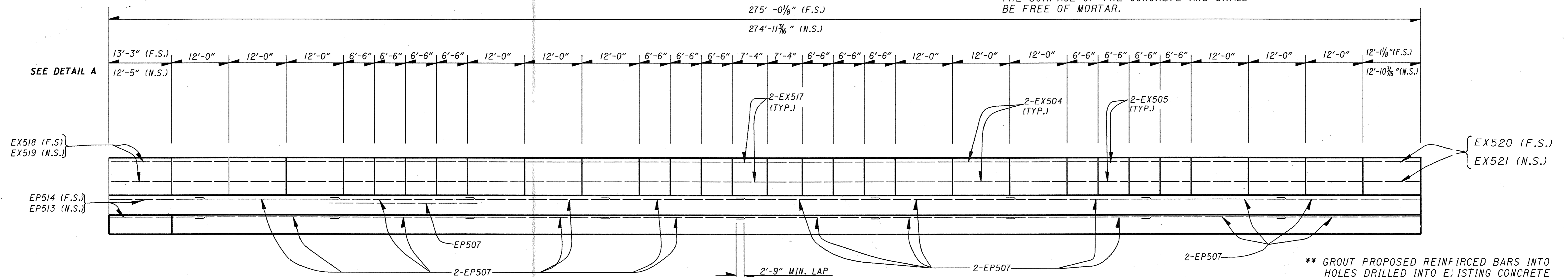
STATE OF OHIO DEPARTMENT OF TRANSPORTATION DISTRICT ONE PLANNING AND DESIGN OFFICE		12/16
SOUTHEAST WINGWALL PARAPET DETAILS		
BR. NO. ALL-75-22.12 S.R.103 OVER I.F.75 SFN 0203548		
DESIGNED RLS	DRAWN RLS	TRACED RLS
CHECKED JRC	REVIEWED JMK	DATE 12/28/92



ELEVATION VIEW
VERTICAL STEEL IN DEFLECTOR PARAPET

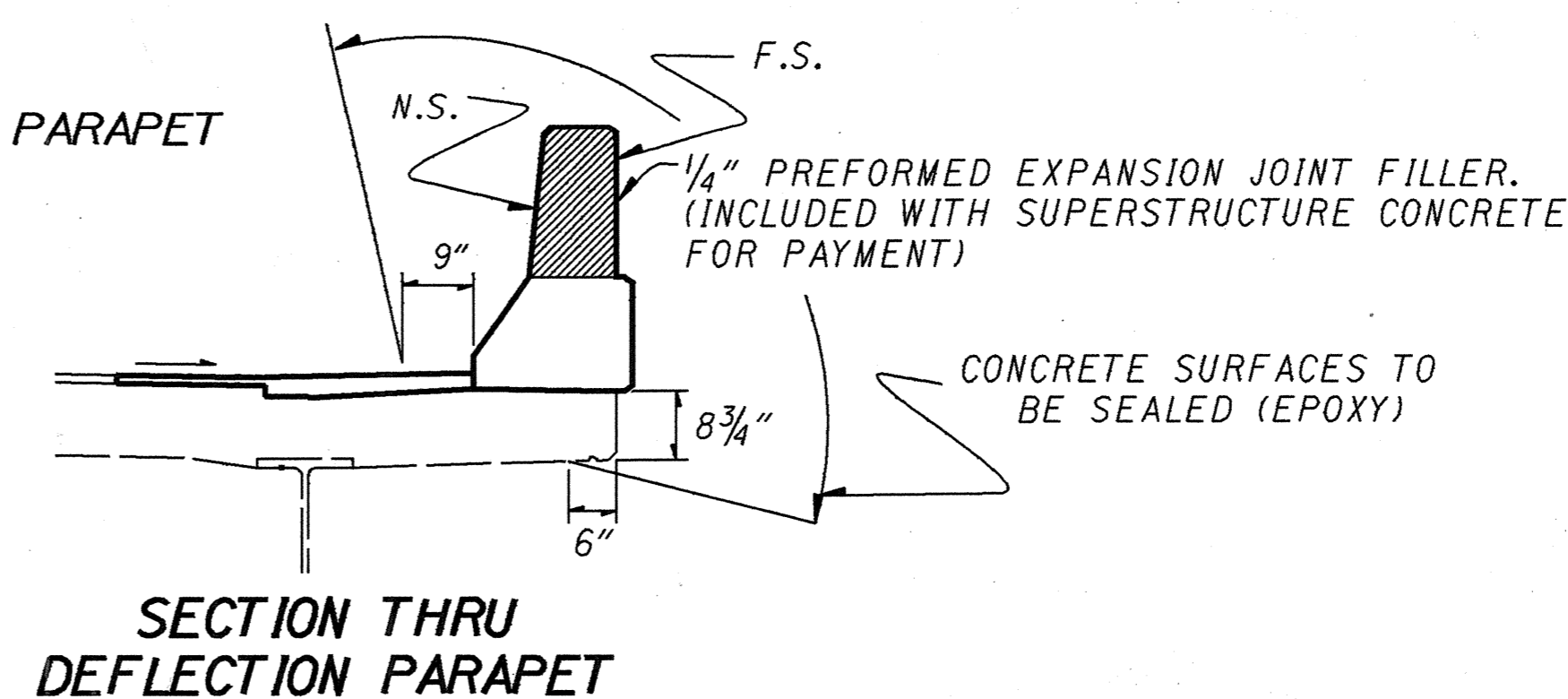
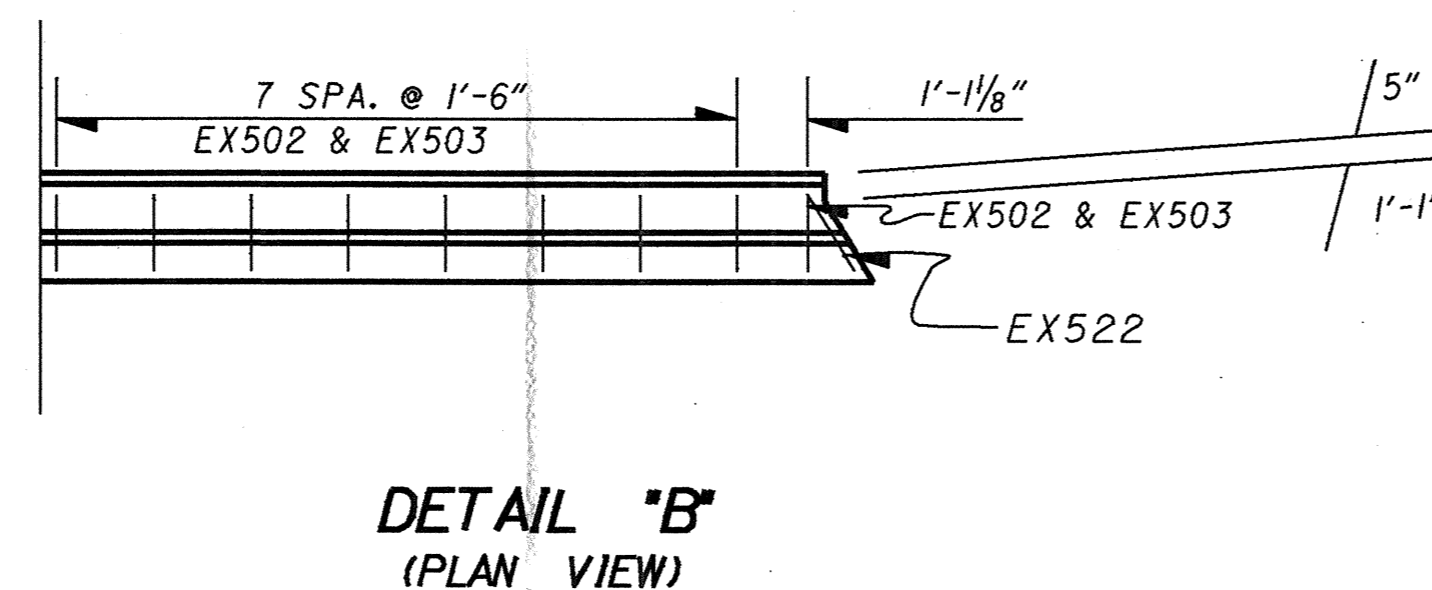
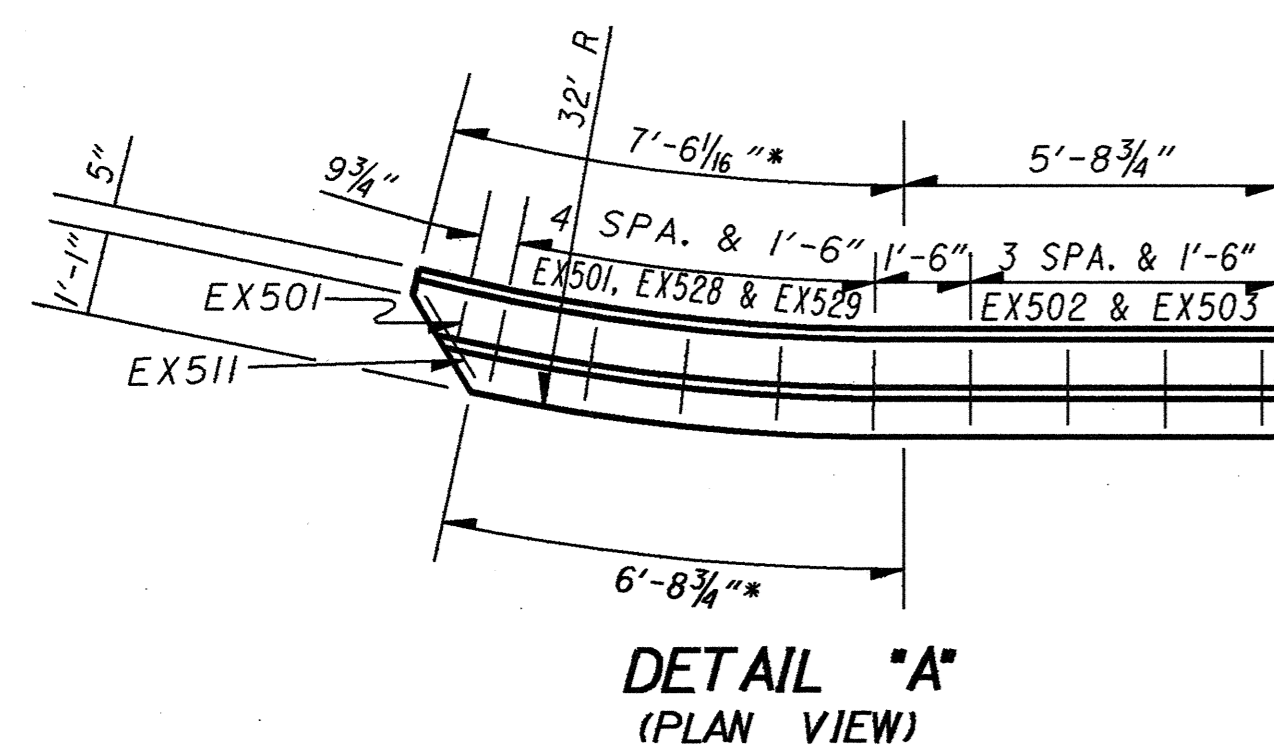
NOTES

- 1) - ALL SPACING BETWEEN ϕ DEFLECTION JOINT AND ϕ OF VERTICAL REINFORCING STEEL BARS SHALL BE A MINIMUM OF 2 1/2" UNLESS OTHERWISE NOTED.
- 2) - CONCRETE PARAPETS ABOVE THE CONSTRUCTION JOINT SHALL BE PLACED IN ALTERNATING SECTIONS BY THE USE OF BULKHEADS. CLOSING SECTIONS SHALL BE PLACED AFTER THE REMOVAL OF THE BULKHEADS AND AFTER THE PLACEMENT OF THE EXPANSION JOINT FILLER. EXPOSED EDGES OF THE FILLER SHALL BE FLUSH WITH THE SURFACE OF THE CONCRETE AND SHALL BE FREE OF MORTAR.
- 3) - DRAWINGS NOT TO SCALE
- 4) - REINFORCING BARS SHALL NOT EXTEND THROUGH THE DEFLECTION JOINTS.
- 5) - SECTION SHOWN VIEWING FACE OF PARAPET
- 6) - FOR DETAILS OF REMOVING THE EXISTING PARAPET AND THE RECONSTRUCTION OF THE PROPOSED SAFETY SHAPE PARAPET ON THE STRUCTURE, SEE SHT. 117.
- 7) - ALL REINFORCING STEEL SHALL BE EPOXY COATED



** GROUT PROPOSED REINFORCED BARS INTO HOLES DRILLED INTO EXISTING CONCRETE IN ACCORDANCE WITH S:852 & SPEC. 705.20. HOLES SHALL BE 6" DEEP.

ELEVATION VIEW
HORIZONTAL STEEL IN DEFLECTOR PARAPET

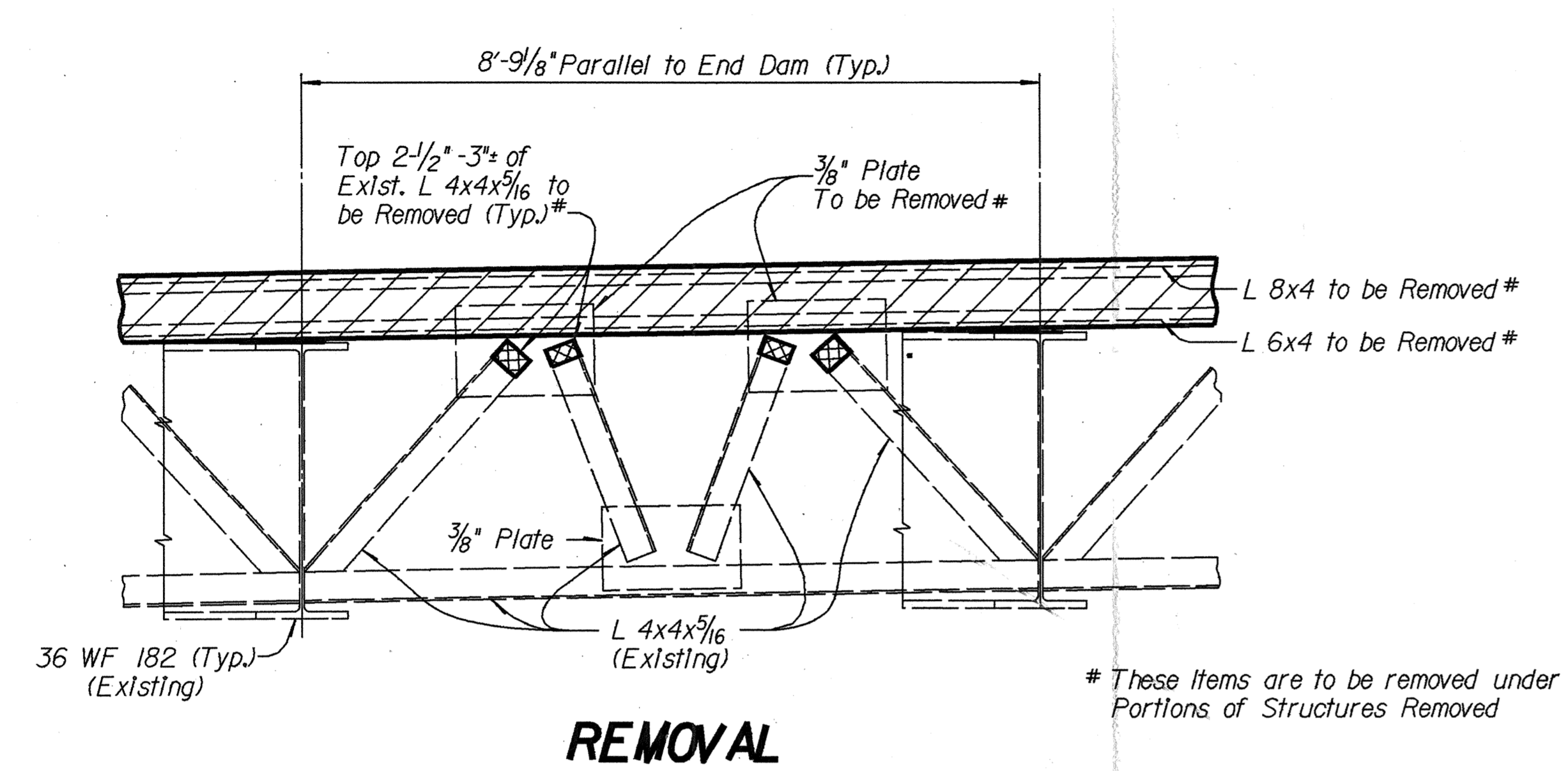


LEGEND

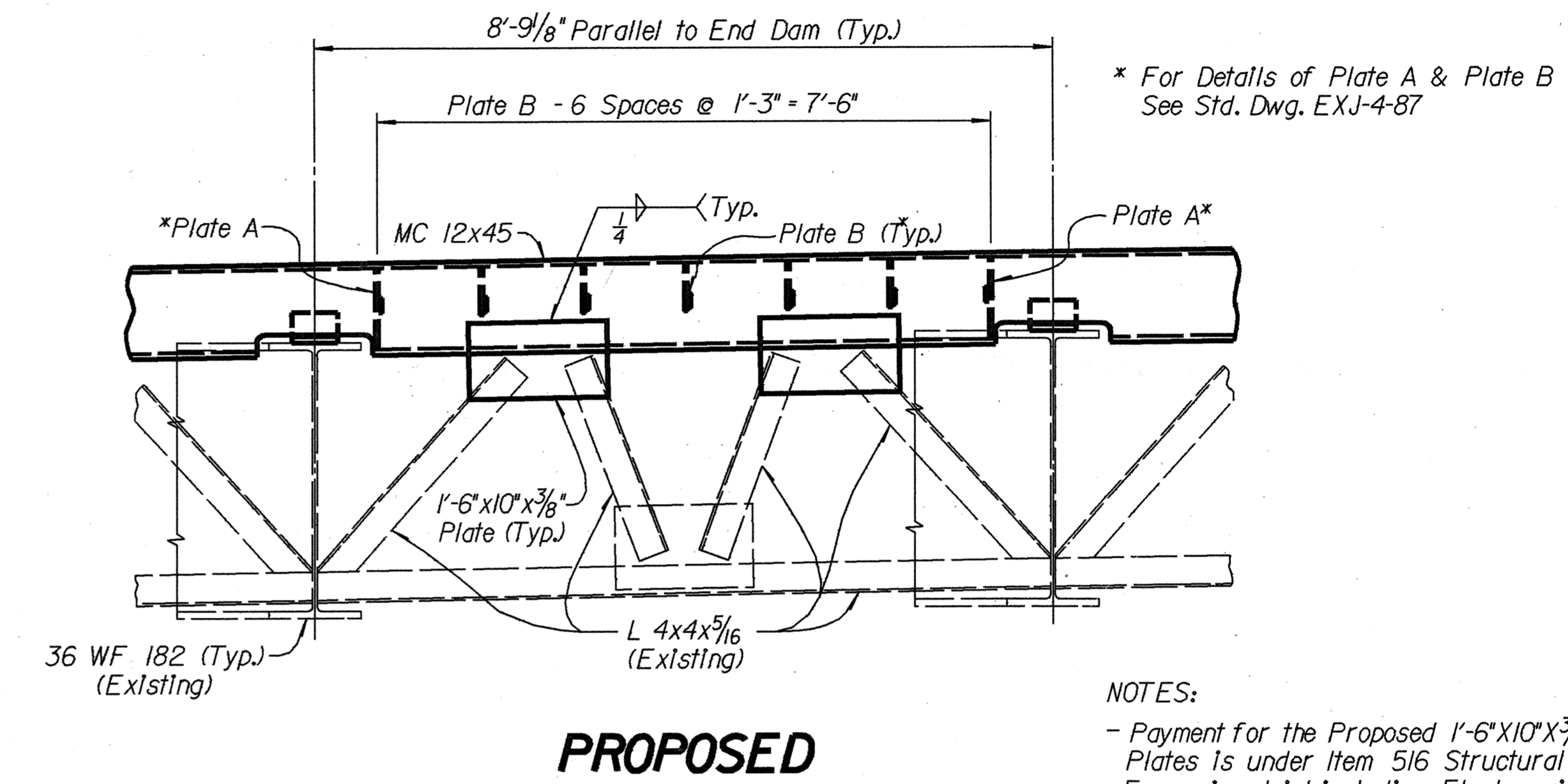
- N.S. - NEAR SIDE
- F.S. - FAR SIDE
- * - RADIAL DIMENSION

STATE OF OHIO	14 / 16
DEPARTMENT OF TRANSPORTATION	PLANNING AND DESIGN DEPARTMENT
DISTRICT ONE	
PARAPET DETAILS - RIGHT SIDE	
Structure No. ALL-75-2212	
S.R. 103 over I.R. 75	
SFN 0203548	
DESIGNED	REVIEWED
DRAWN	DATE
TRACED	REVISED
CHKD	
RLS	RLS
J.C.	DMK 1/28/92

END CROSSFRAME DETAILS




REMOVAL



PROPOSED

- NOTES:
- Payment for the Proposed 1'-6" x 10" x 3/8" Plates is under Item 516 Structural Expansion Joint Including Elastomeric Strip Seal
 - Refer to Std. Dwg. EXJ-4-87 & SD-1-69 for additional Details.

 ~ Portions of Structure Removed

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 USERNAME : nick

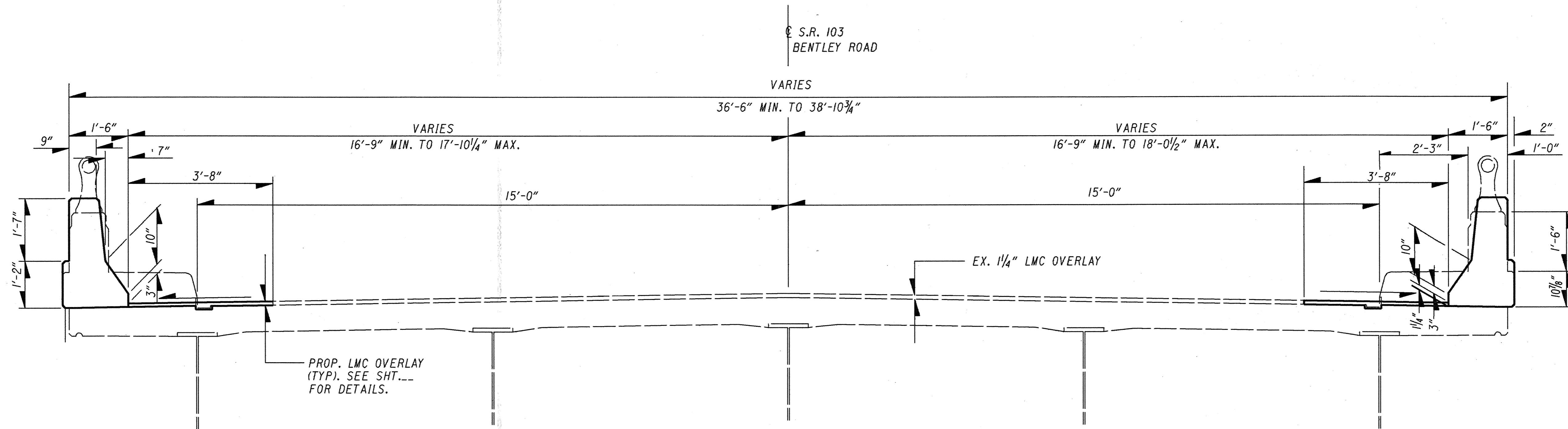
DATE : 27-JAN-1993
 TIME : 11:28

STATE OF OHIO		16 / 16	
DEPARTMENT OF TRANSPORTATION			
DISTRICT ONE PLANNING AND DESIGN OFFICE			
MISCELLANEOUS DETAILS			
BRIDGE No. ALL-75-2212			
S.R. 103 over I-75			
SFN 0203548			
DESIGNED	DRAWN	TRACED	CHECKED
RS	RS	RS	JC
REVIEWED	DATE	REVISED	
DMK	1/28/92		

CALC BY
DATE
CHKD BY
DATE

ALLEN COUNTY
ALL-75-22.12

OHIO
FHWA REGION 5
124
137

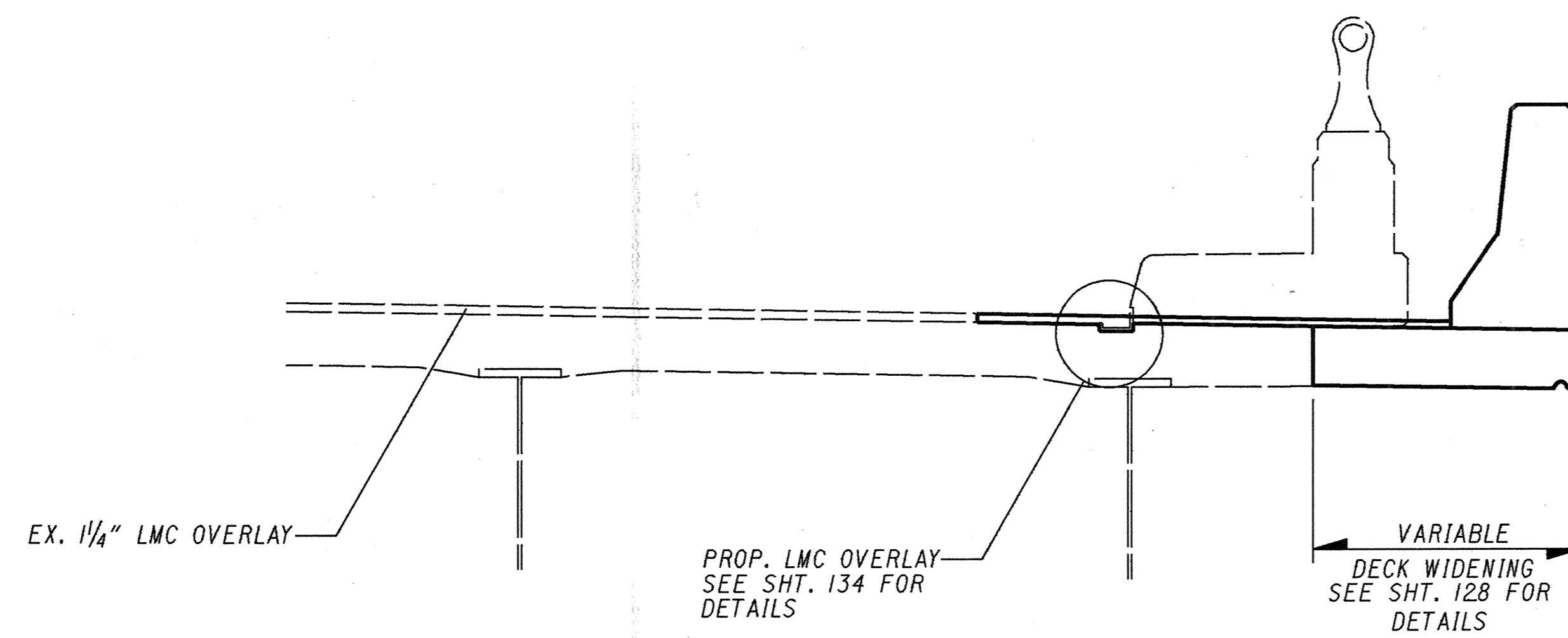


TRANSVERSE SECTION

FOR REMOVAL AND RECONSTRUCTION DETAILS, SEE SHTS. 134.

FOR DECK WIDENING DETAILS SEE SHT. 128.

FOR STRUCTURE DATA SEE SHT. 102.

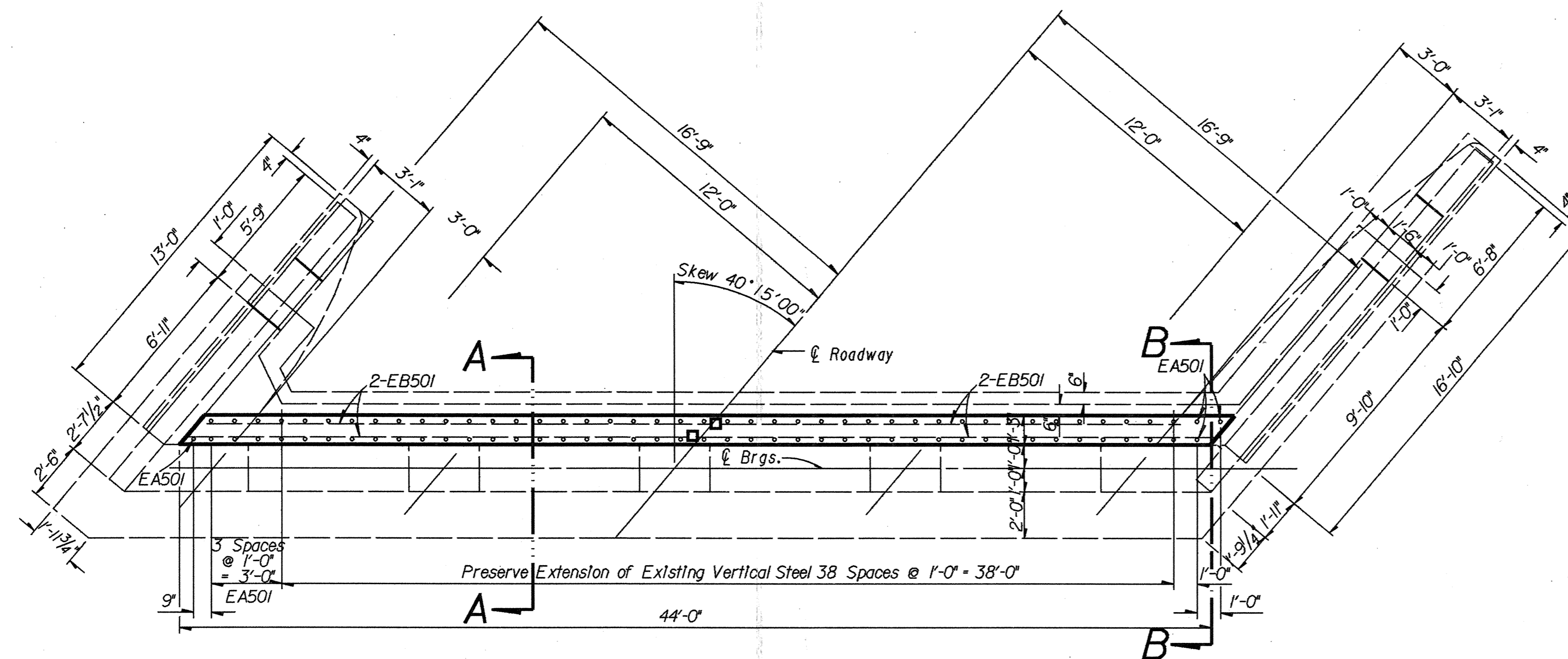


SECTION AT WIDENING

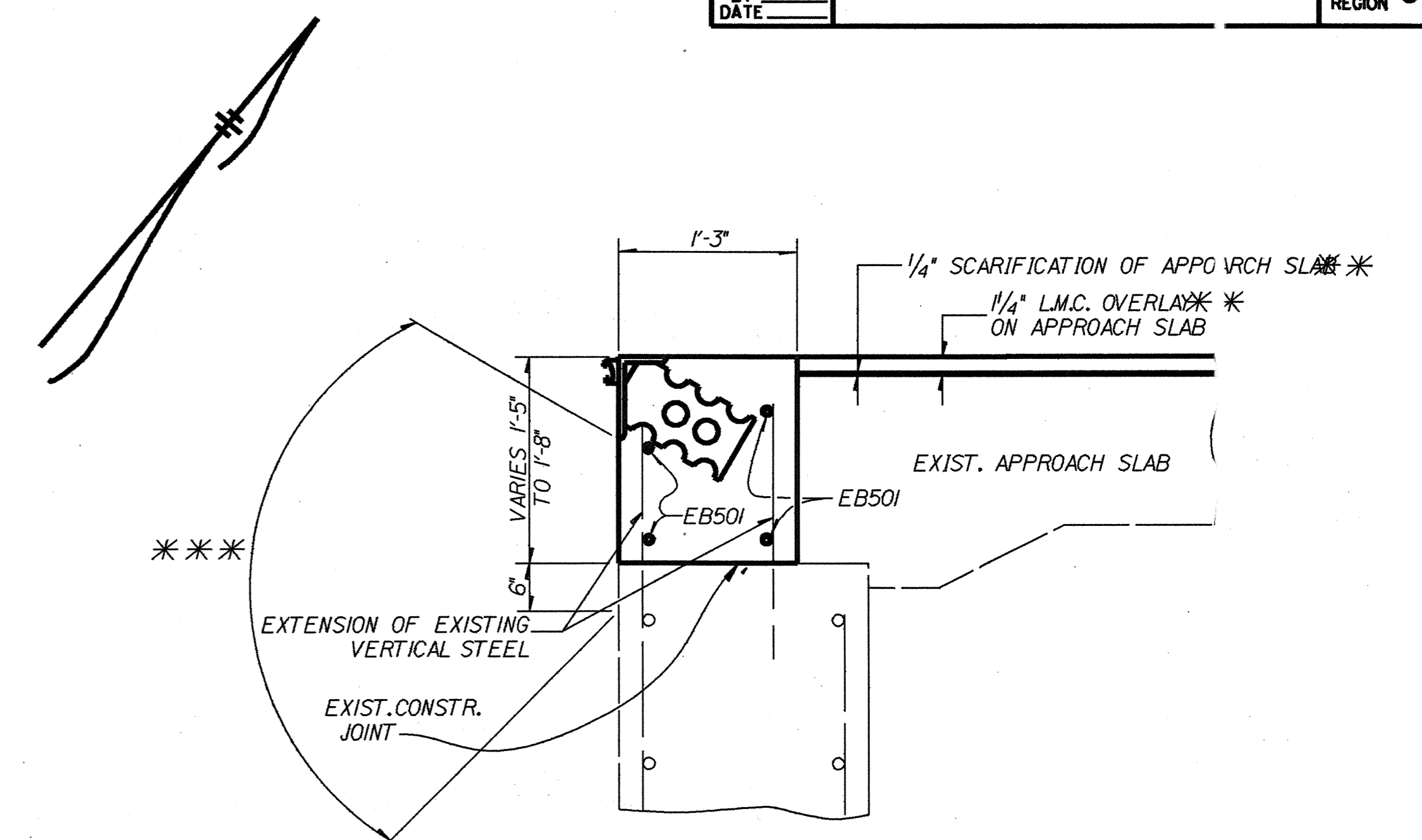
STATE OF OHIO						2 / 15
DEPARTMENT OF TRANSPORTATION						
DISTRICT ONE PLANNING AND DESIGN OFFICE						
TRANSVERSE SECTION						
BR. NO. A.L-103-0030						
S.R. 03 over						
NORFOLK SOUTHERN RAILROAD						
SFN 0203572						
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RLS	RLS	RLS	JC	AMK	1/28/97	

DESIGN FILE : i:\dgn\bentley\at7522sld.dgn
USERNAME : nick

DATE : 27-JAN-1993
TIME : 11:35



PLAN SHOWING ABUTMENT REHABILITATION

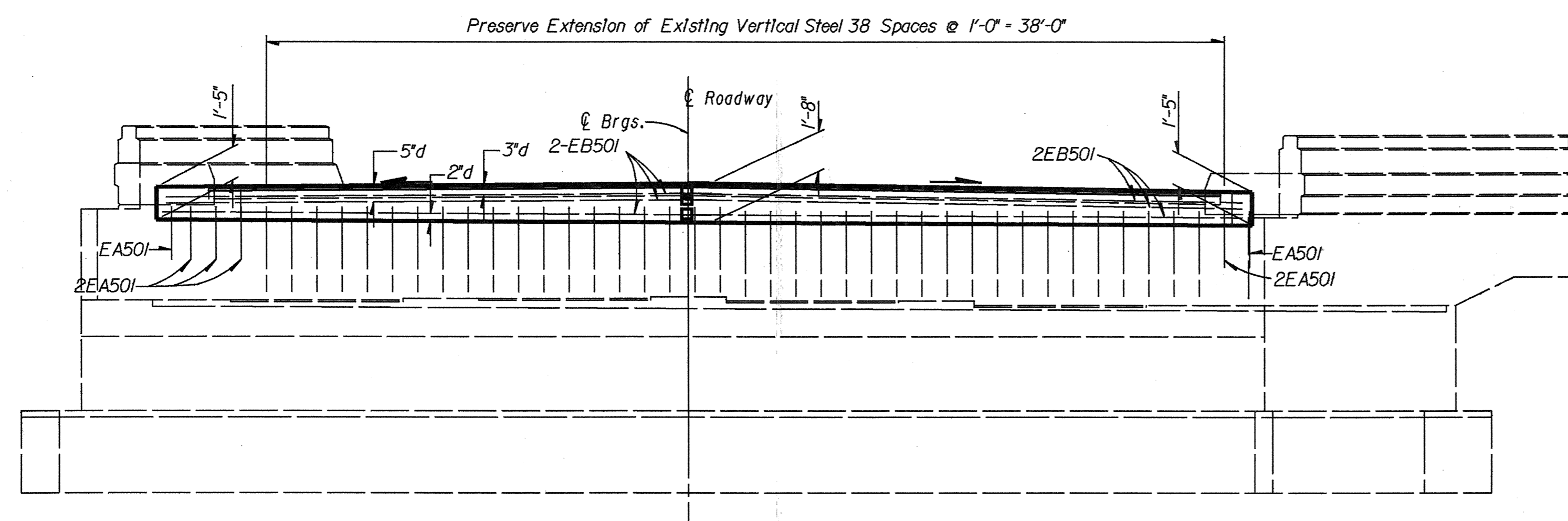


PROPOSED SECTION A-A

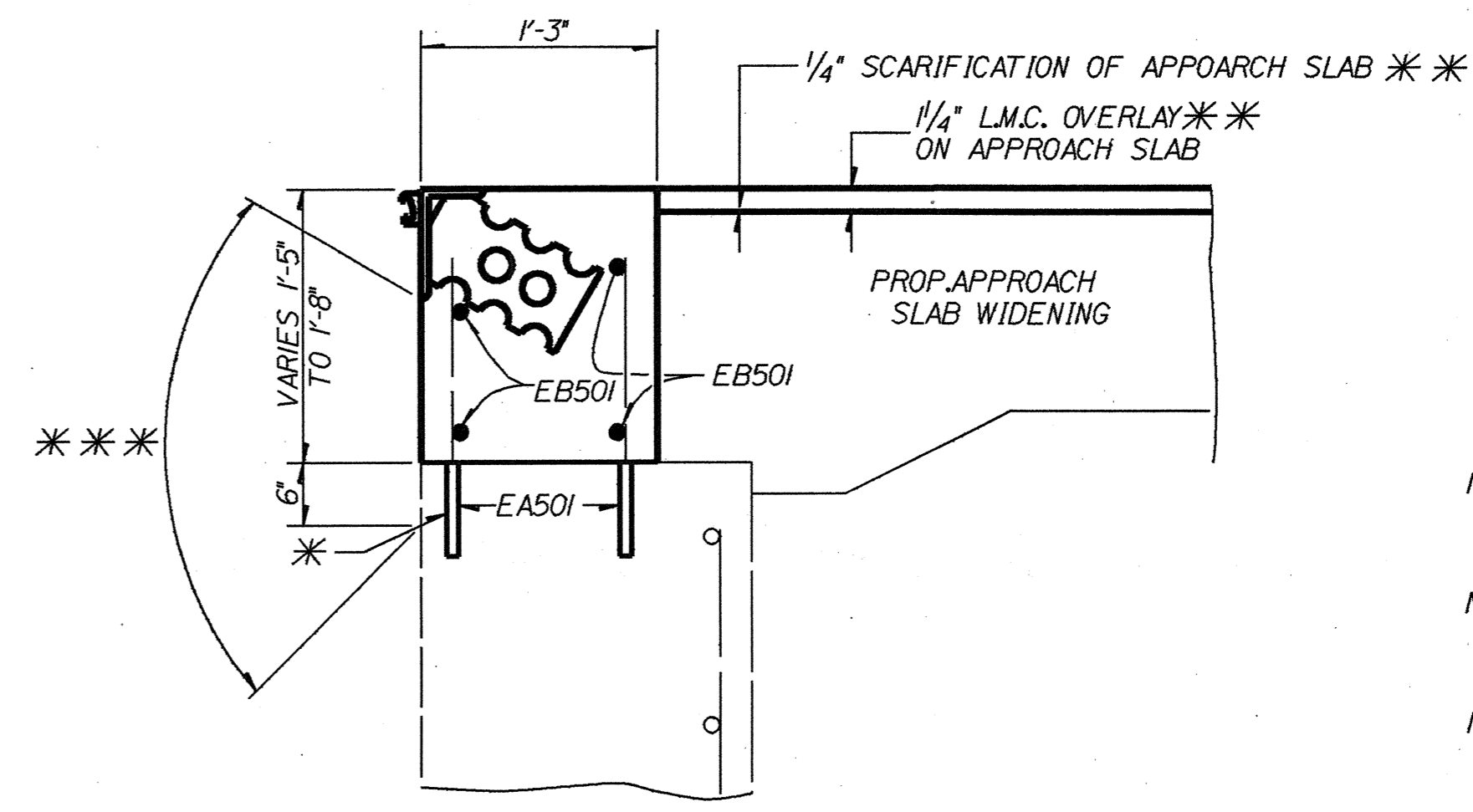
* GROUT PROPOSED REINFORCING BARS INTO HOLES DRILLED INTO EXISTING CONCRETE IN ACCORDANCE WITH SS852 & SPEC. 705.10. HOLES SHALL 12\"/>

** INCLUDED WITH ROADWAY QUANTITIES.

*** CONCRETE SURFACE TO BE EPOXY SEALED.



ELEVATION SHOWING ABUTMENT REHABILITATION



PROPOSED SECTION B-B

NOTE: For Strip Seal Details, See sheet 127

NOTE: For Wingwall Upgrading Details, See sheet 136

NOTE: For Carpet Details, See sheet 132

NOTE: Preserve extensions of all existing vertical steel.

LEGEND

□ - Mechanical Connectors, at C of Roadway, Included with Item 509, Epoxy Coated Reinforcing Steel

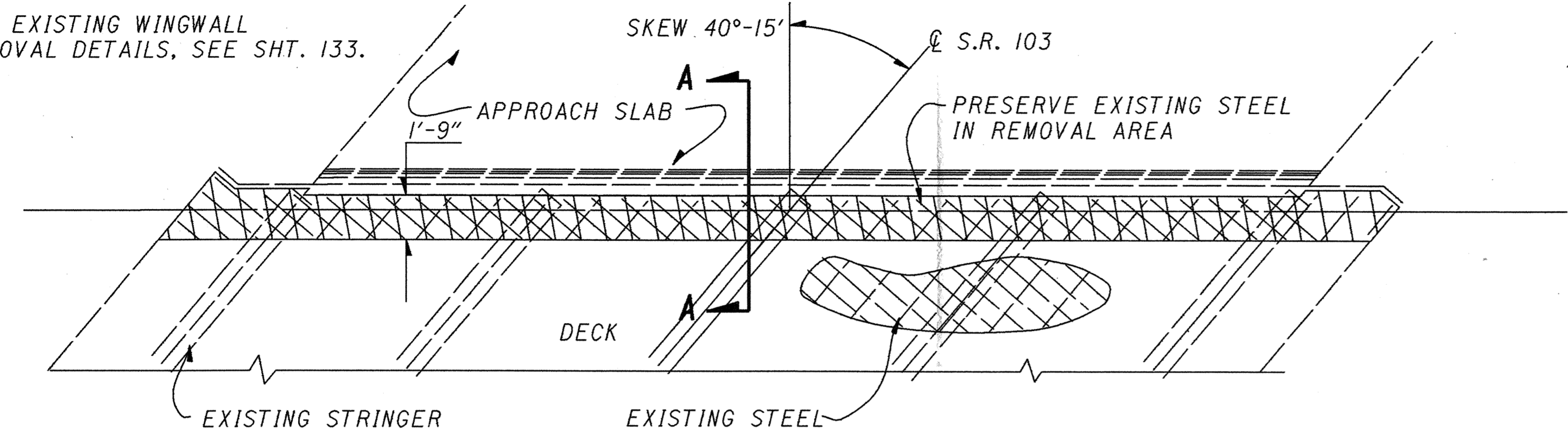
N.F. - Near Face

F.F. - Far Face

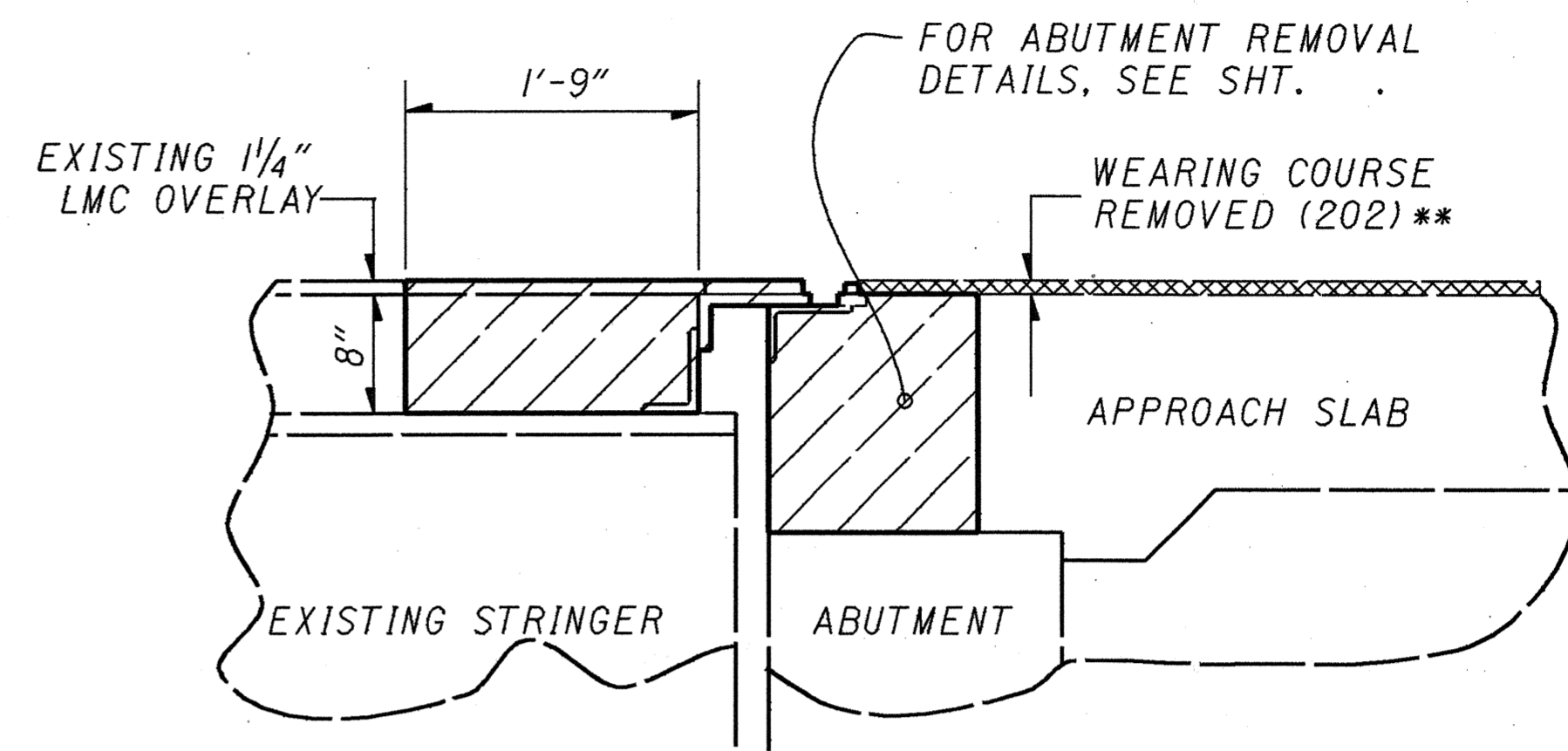
STATE OF OHIO		4 / 15	
DEPARTMENT OF TRANSPORTATION			
DISTRICT ONE PLANNING AND DESIGN OFFICE			
ABUTMENT REHABILITATION DETAILS			
BR. No. ALL-103-00.10 S.R. 103 over			
NORFOLK SOUTHERN RAILROAD			
NORTH ABUTMENT			
SFN 0203572			
DESIGNED	DRAWN	TRACED	CHECKED
RLS	RLS	RLS	JRC
DATE	REVIEWED	DATE	REVISOR
1/28/93			

DESIGN FILE : i:\adgn\bentley\7522ad4.dgn
 USERNAME : nick
 DATE : 27-JAN-1993
 TIME : 11:43

FOR EXISTING WINGWALL REMOVAL DETAILS, SEE SHT. 133.



EXISTING SUPERSTRUCTURE REMOVAL PLAN @ NORTH ABUTMENT



EXISTING SECTION A-A

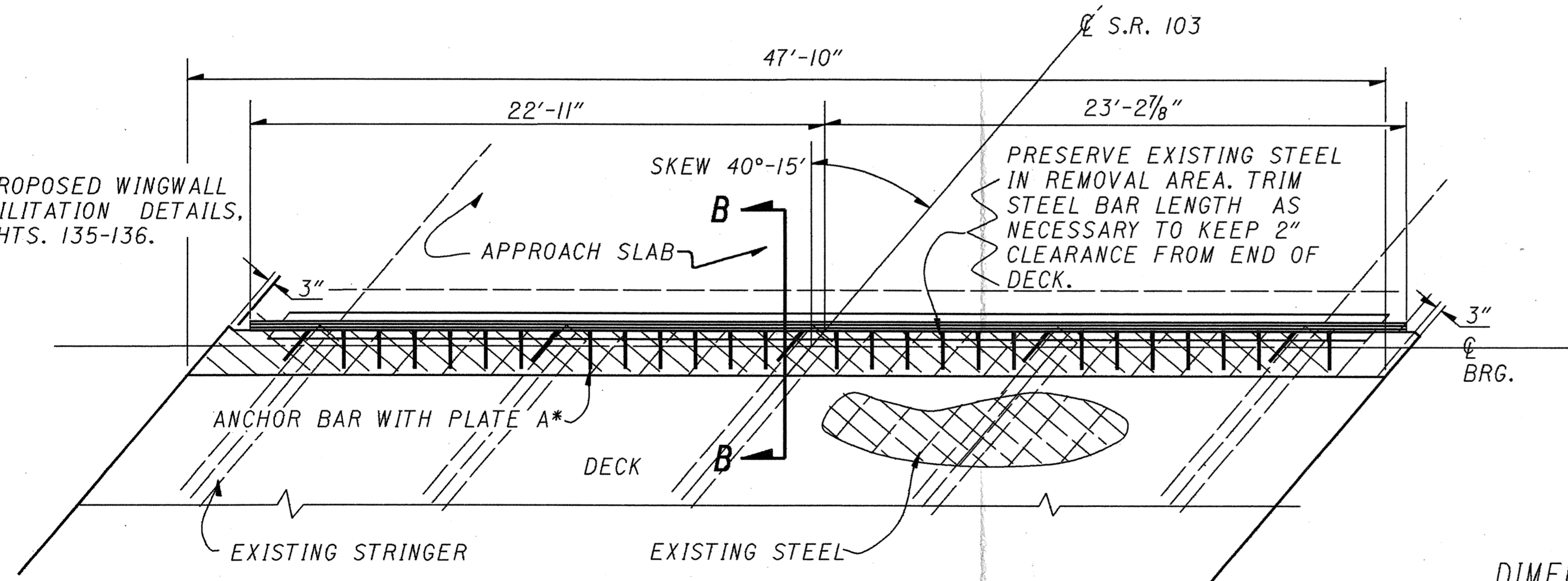
TO BE REMOVED UNDER ITEM 202 PORTIONS OF A STRUCTURE REMOVED

** INCLUDED WITH ROADWAY QUANTITIES

DESIGN FILE : i:\dgn\bentley\7522pdl.dgn USERNAME : nick

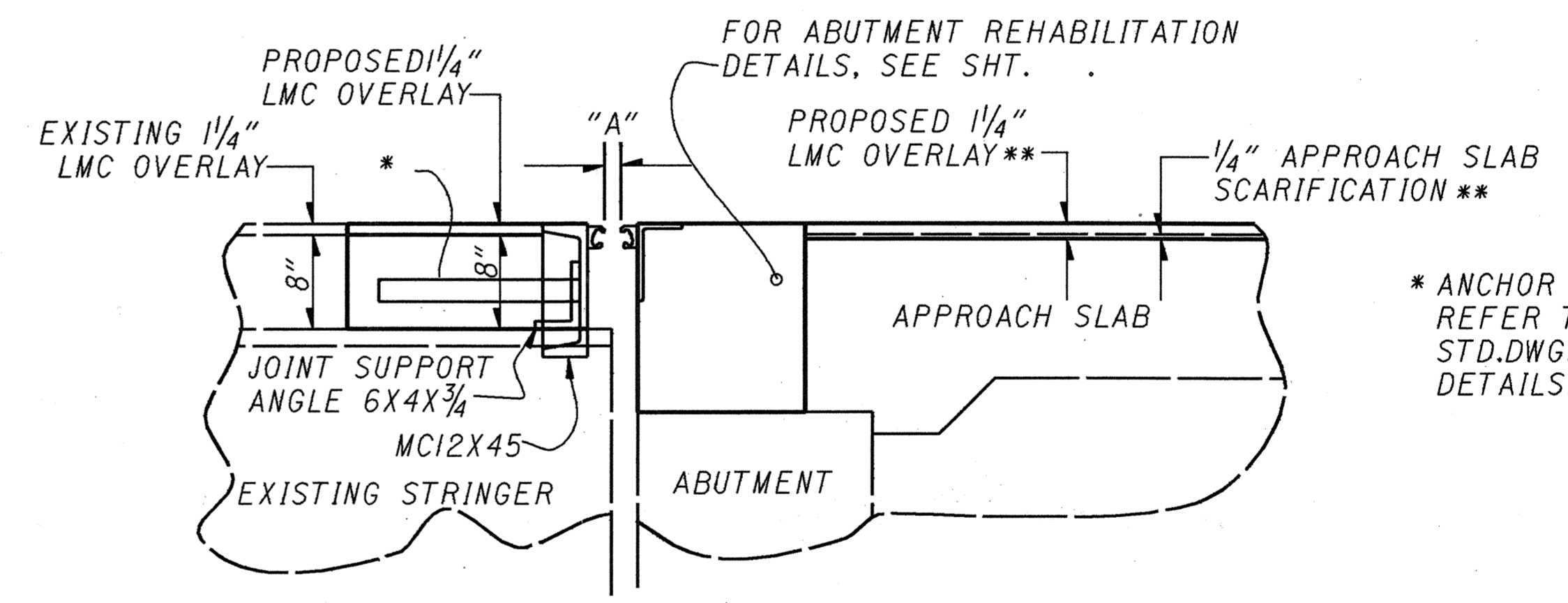
DATE : 27-JAN-1993 TIME : 11:50

FOR PROPOSED WINGWALL REHABILITATION DETAILS, SEE SHTS. 135-136.



PROPOSED SUPERSTRUCTURE RECONSTRUCTION PLAN @ NORTH ABUTMENT

** - REFER TO STD.DWG EXJ-4-87



PROPOSED SECTION B-B

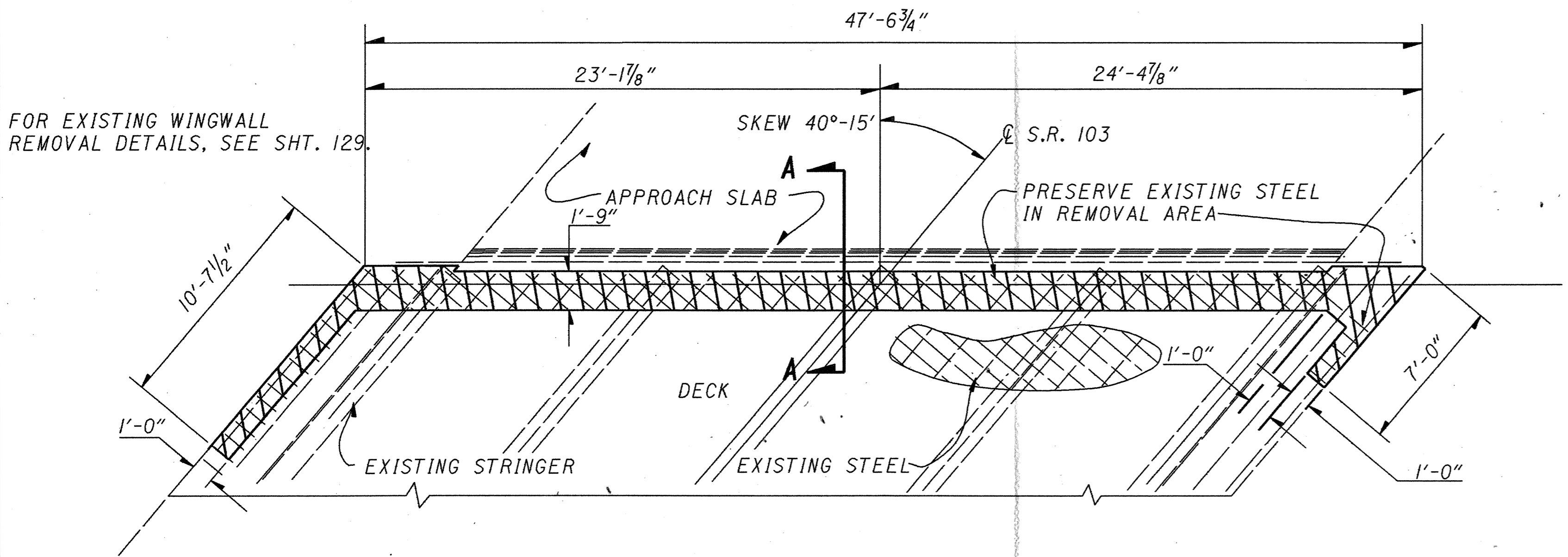
* ANCHOR BARS (TY?). FOR SPACING REFER TO SHT. . . ALSO REFER TO STD.DWG. EXJ-4-87 FOR ADDITIONAL DETAILS.

DIMENSION "A"

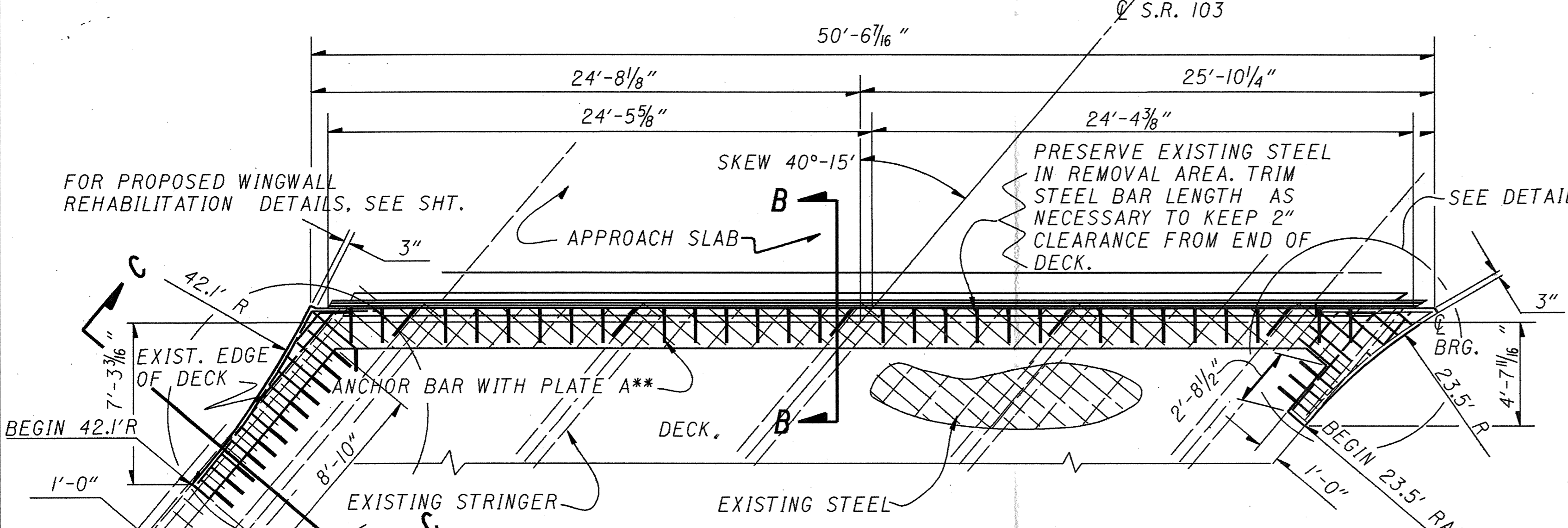
TEMPERATURE, F°	"A", INCHES
30	1.888
40	1.800
50	1.700
60	1.613
70	1.513
80	1.425
90	1.325

NOTE: FOR FURTHER DETAILS SEE STD. DWG. EXJ-4-87

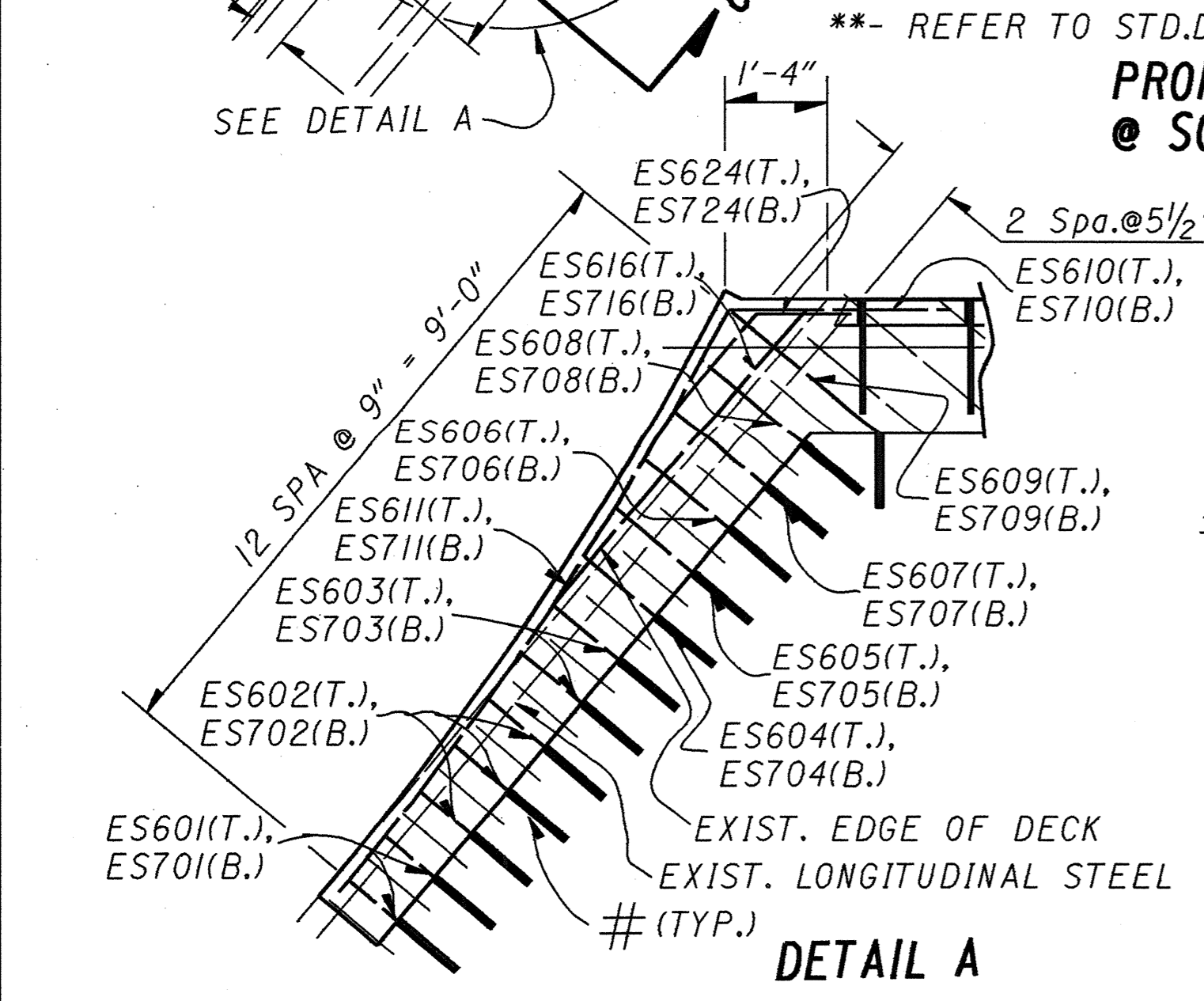
STATE OF OHIO		5 / 15	
DEPARTMENT OF TRANSPORTATION			
DISTRICT ONE PLANNING AND DESIGN DEPARTMENT			
SUPERSTRUCTURE REHABILITATION DETAILS			
STR. NO ALL-103-0030 S.R. 103 OVER NORFOLK SOUTHERN RAILROAD NORTH ABUTMENT SFN 0203572			
DESIGNED	DRAWN	TRACED	CHECKED
RES	RES	RES	J.C.
REVIEWED	DATE	REVISED	
JMK	1/28/92		



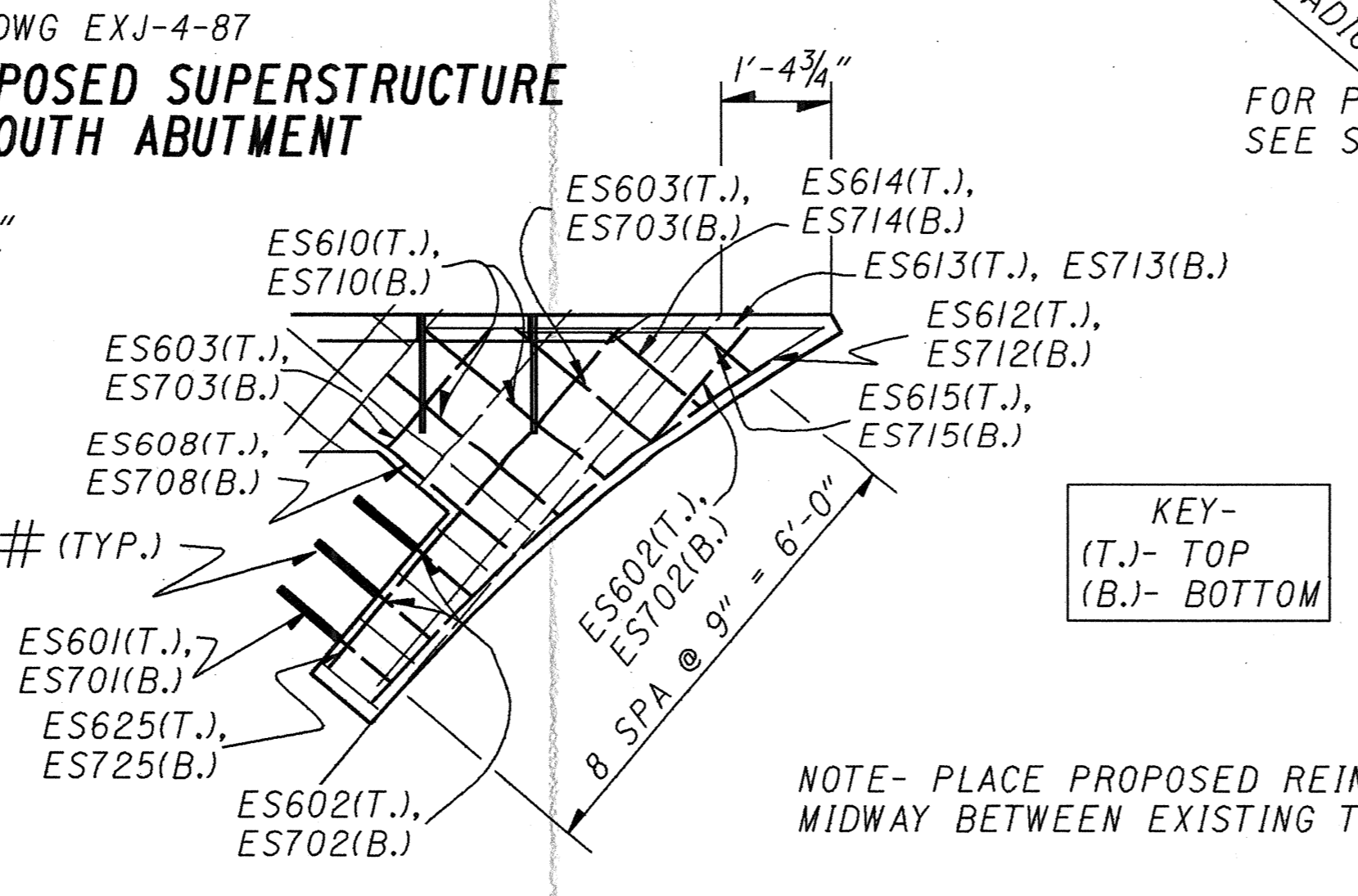
EXISTING SUPERSTRUCTURE @ SOUTH ABUTMENT



PROPOSED SUPERSTRUCTURE @ SOUTH ABUTMENT



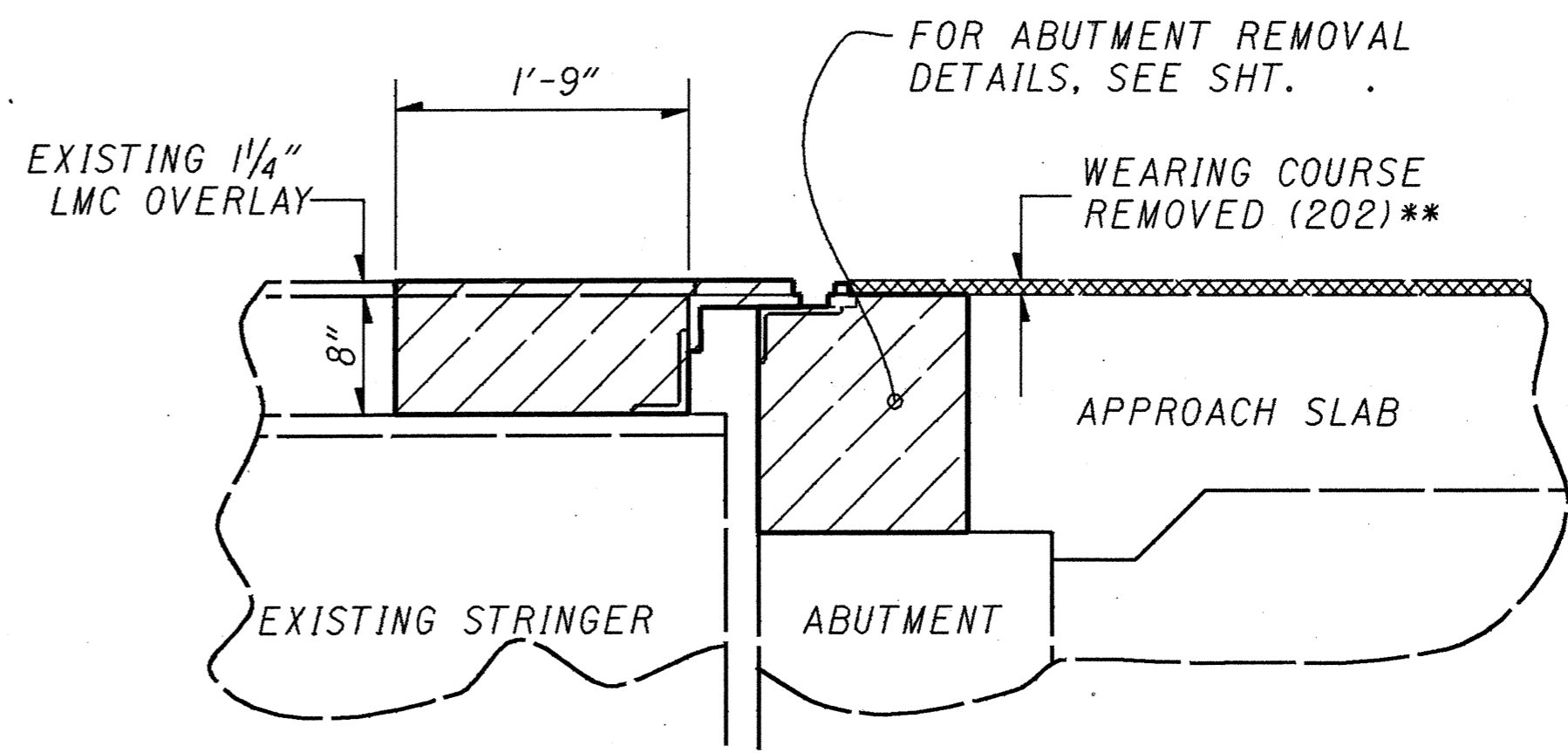
DETAIL A



DETAIL B

KEY-
(T.)- TOP
(B.)- BOTTOM

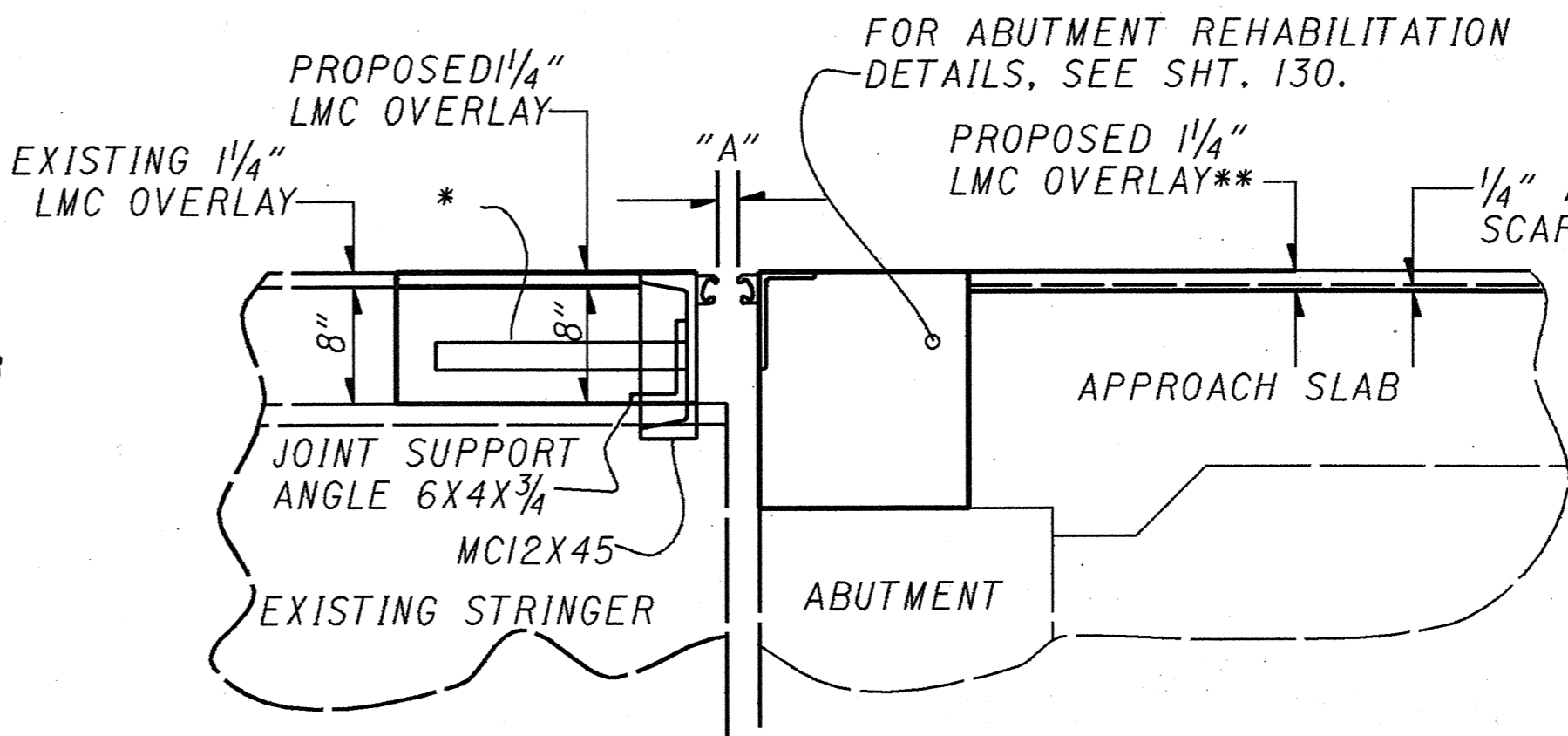
NOTE- PLACE PROPOSED REINFORCING BARS MIDWAY BETWEEN EXISTING TRANSVERSE BARS.



EXISTING SECTION A-A

TO BE REMOVED UNDER ITEM 202 PORTIONS OF A STRUCTURE REMOVED

** INCLUDED WITH FOADWAY QUANTITIES



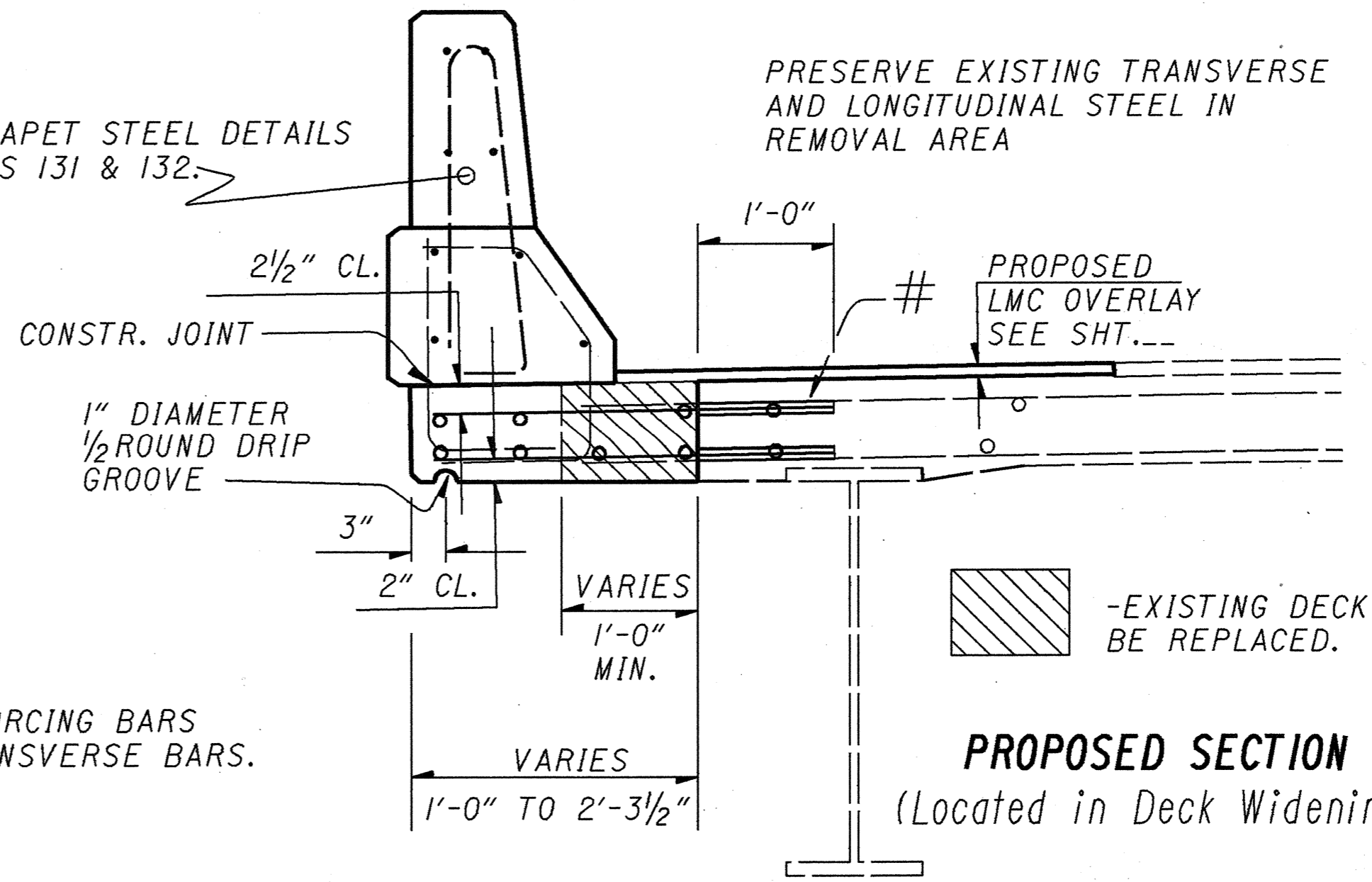
PROPOSED SECTION B-B

NOTE: FOR FURTHER DETAILS SEE STD. DWG. EXJ-4-87

* ANCHOR BARS (TY). FOR SPACING REFER TO STD.DWG. EXJ-4-87 FOR ADDITIONAL DETAILS.

DIMENSION "A"

TEMPERATURE, F	"A", INCHES
30	1.888
40	1.800
50	1.700
60	1.613
70	1.513
80	1.425
90	1.325



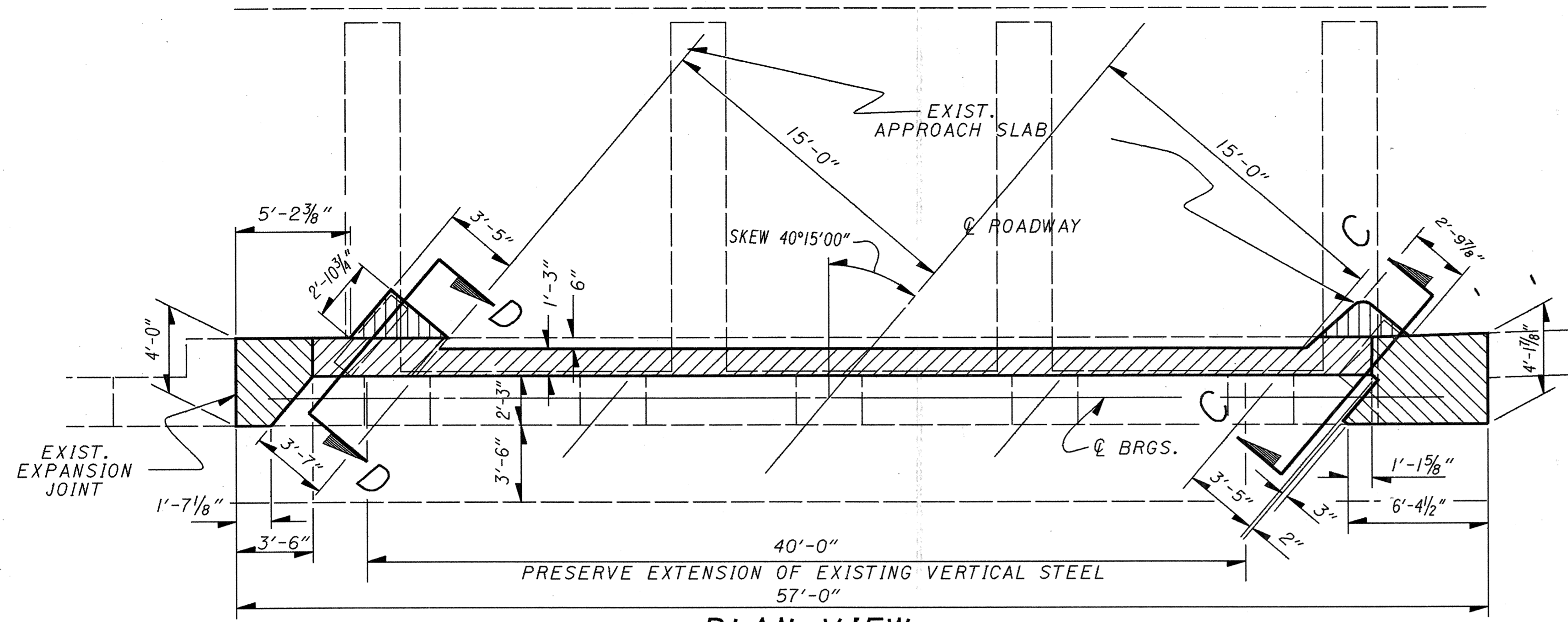
PROPOSED SECTION C-C
(Located in Deck Widening Area)

-EXISTING DECK TO BE REPLACED.

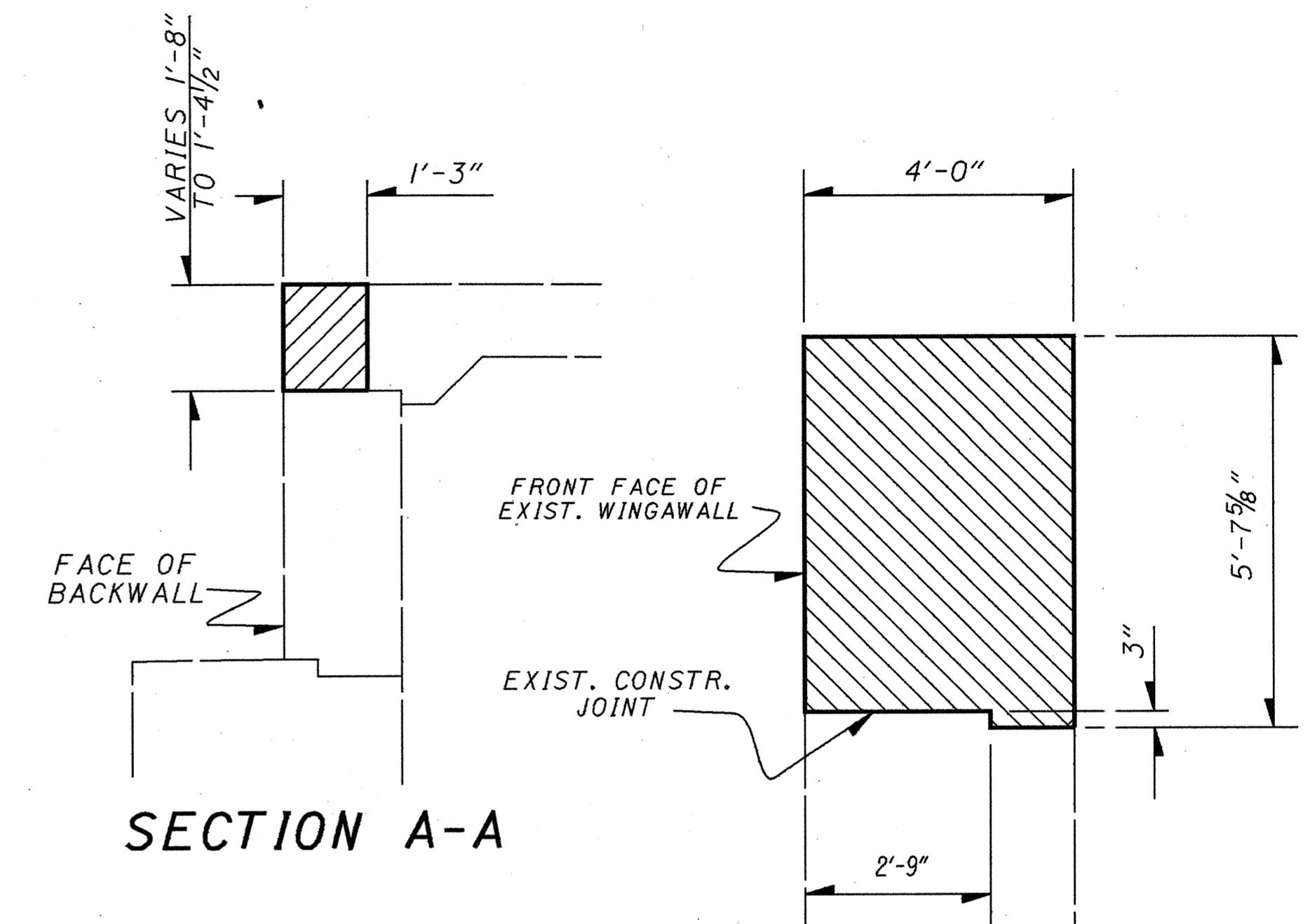
- GROUT PROPOSED REINFORCING BARS INTO HOLES DRILLED IN EXISTING CONCRETE IN ACCORDANCE WITH SS 852 & SPEC. 705.20. HOLES SHALL BE 1'-0" DEEP.

STATE OF OHIO		6/15	
DEPARTMENT OF TRANSPORTATION PLANNING AND DESIGN DEPARTMENT			
DISTRICT ONE			
SUPERSTRUCTURE REHABILITATION DETAILS			
STR. NO ALL-10 1-0030 S.R. 103 OVER NORFOLK SOUTHERN RAILROAD SOUTH ABUTMENT SFN 0203572			
DESIGNED	DRAWN	TRACED	CH. CKED
REVIEWED	DATE	REVISED	
RLS	RLS	RLS	J.C.
	1/28/82		

DATE : 27-JAN-1993
TIME : 11:56
DESIGN FILE : I:\adgn\benfley\at7522pdl.dgn
USERNAME : nick

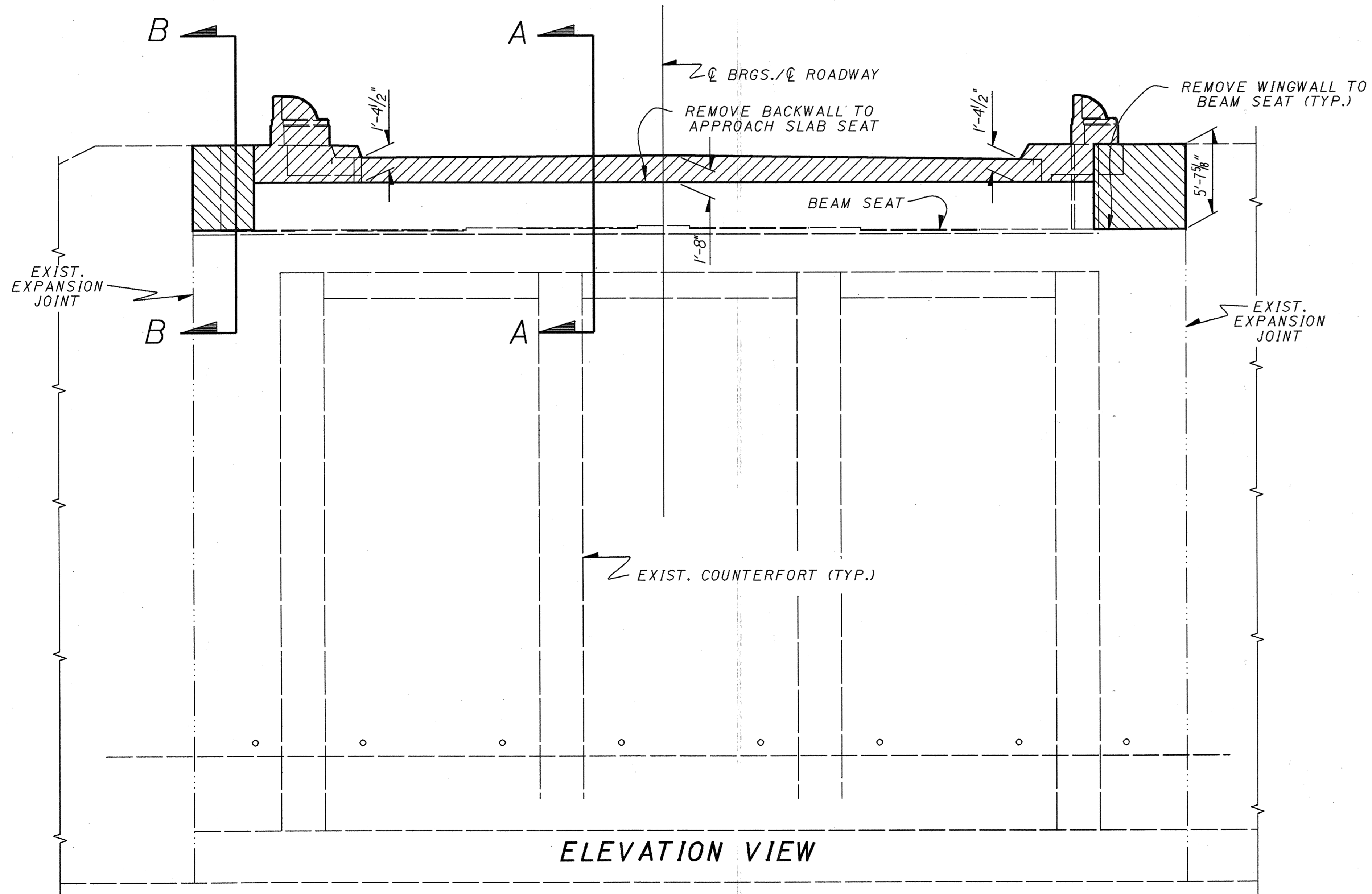


PLAN VIEW

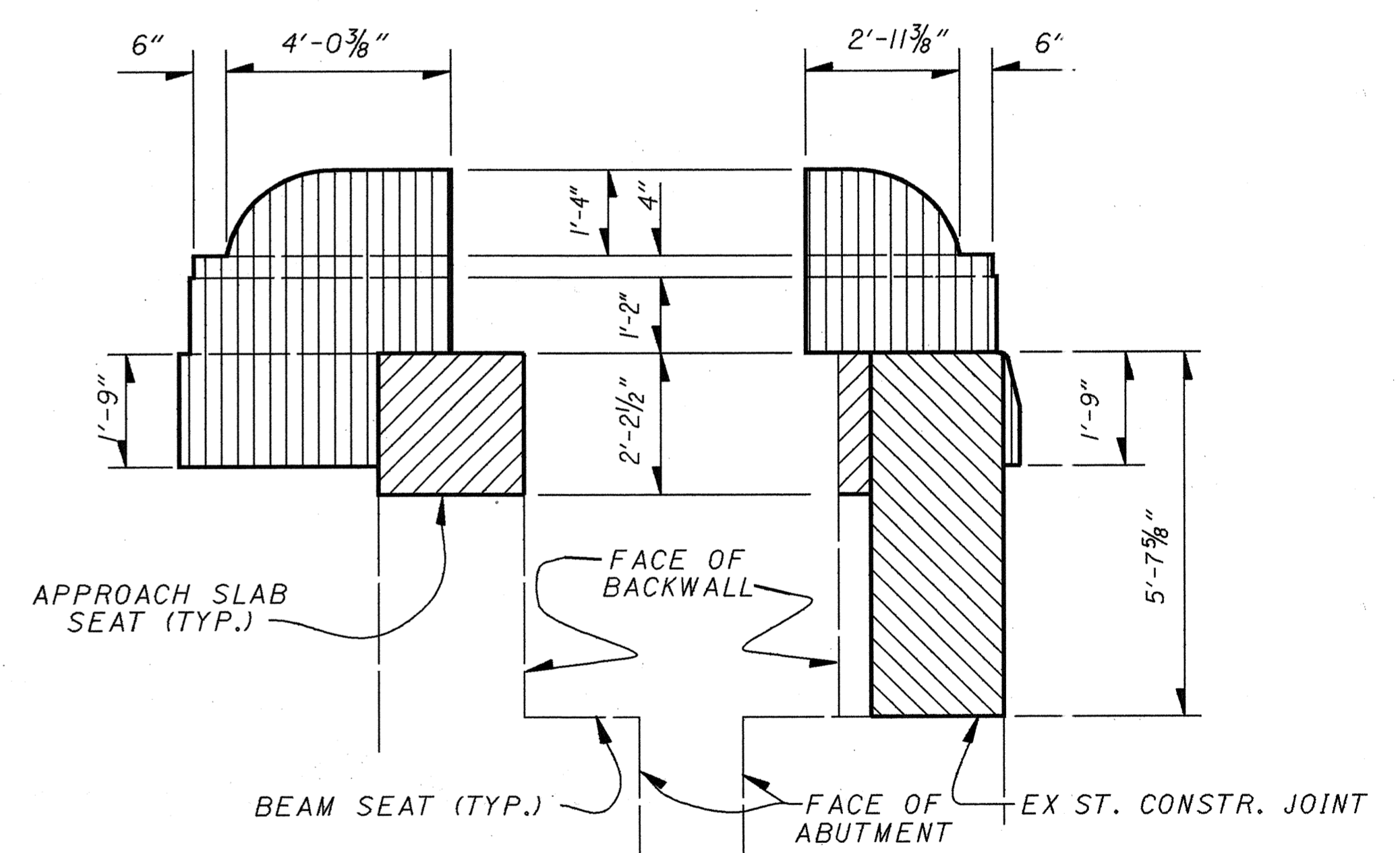


SECTION A-A

SECTION B-B



ELEVATION VIEW



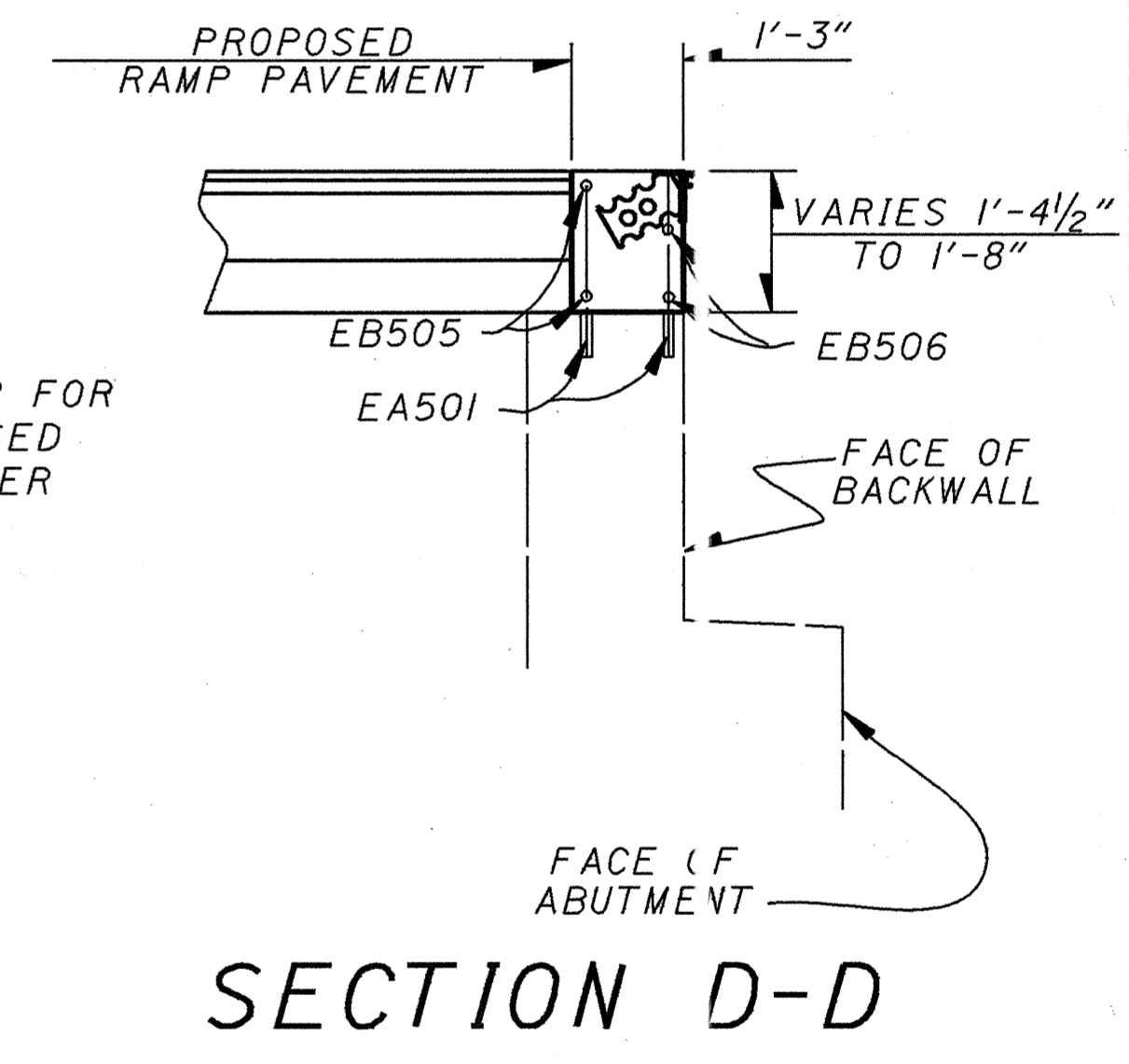
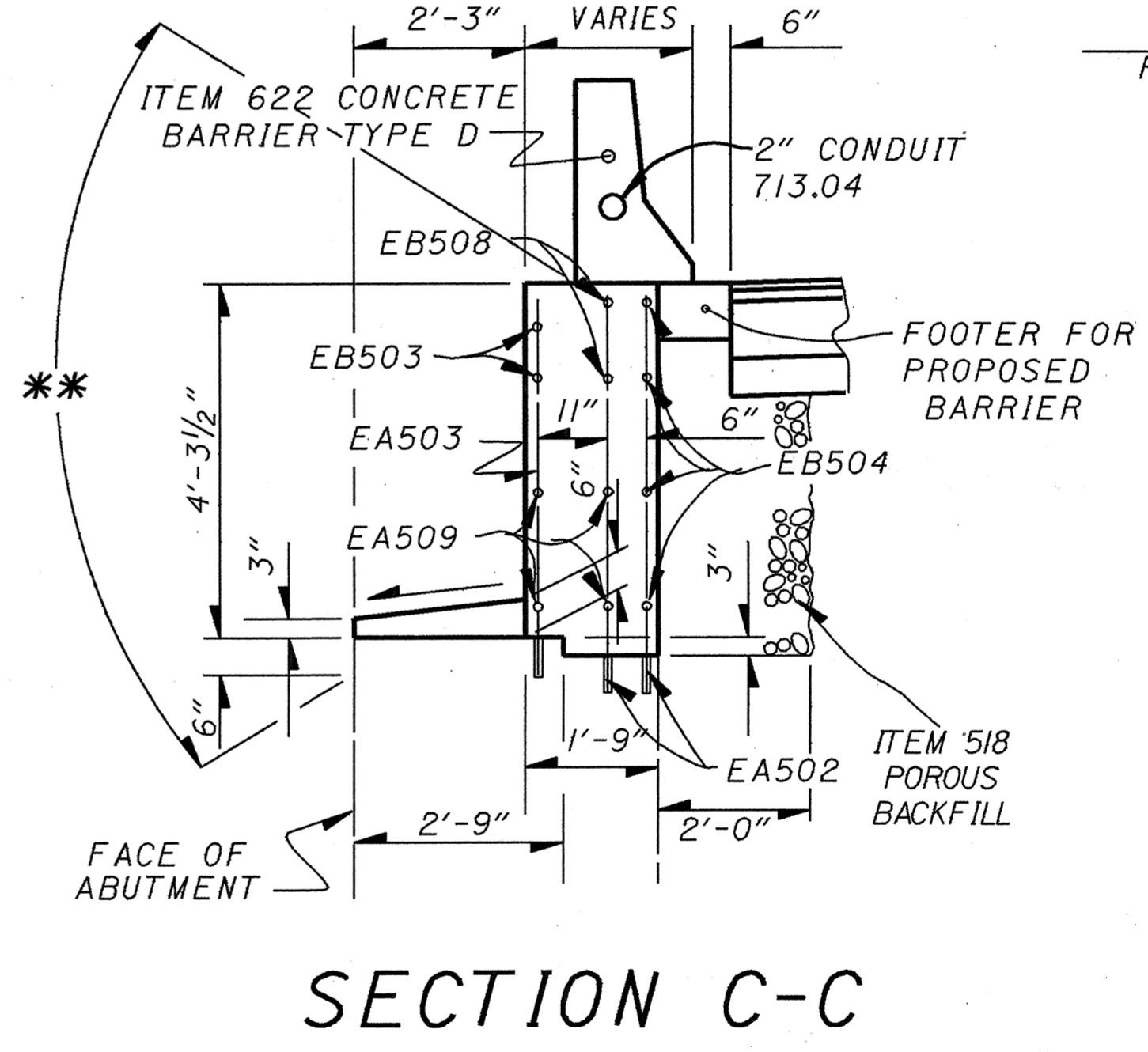
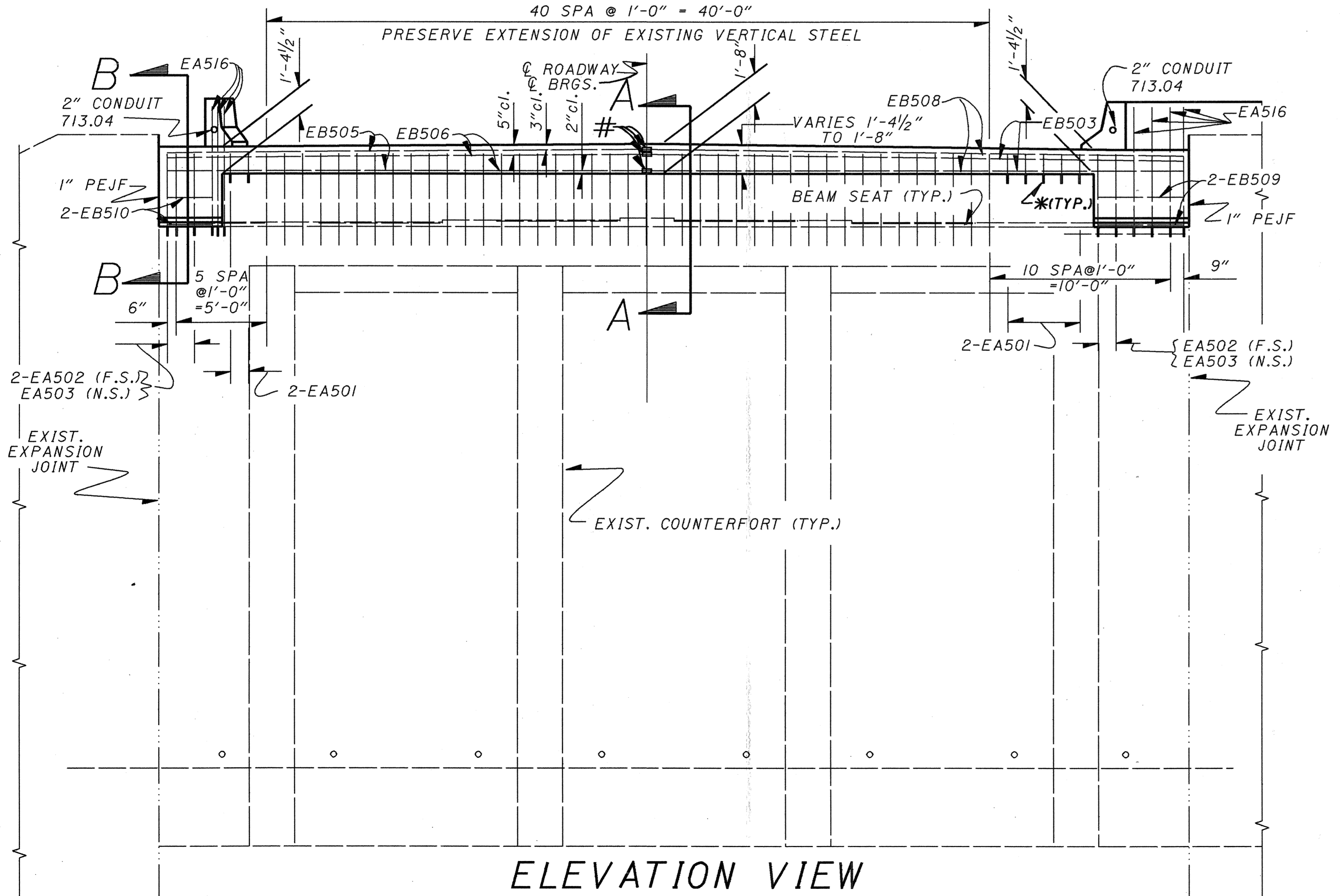
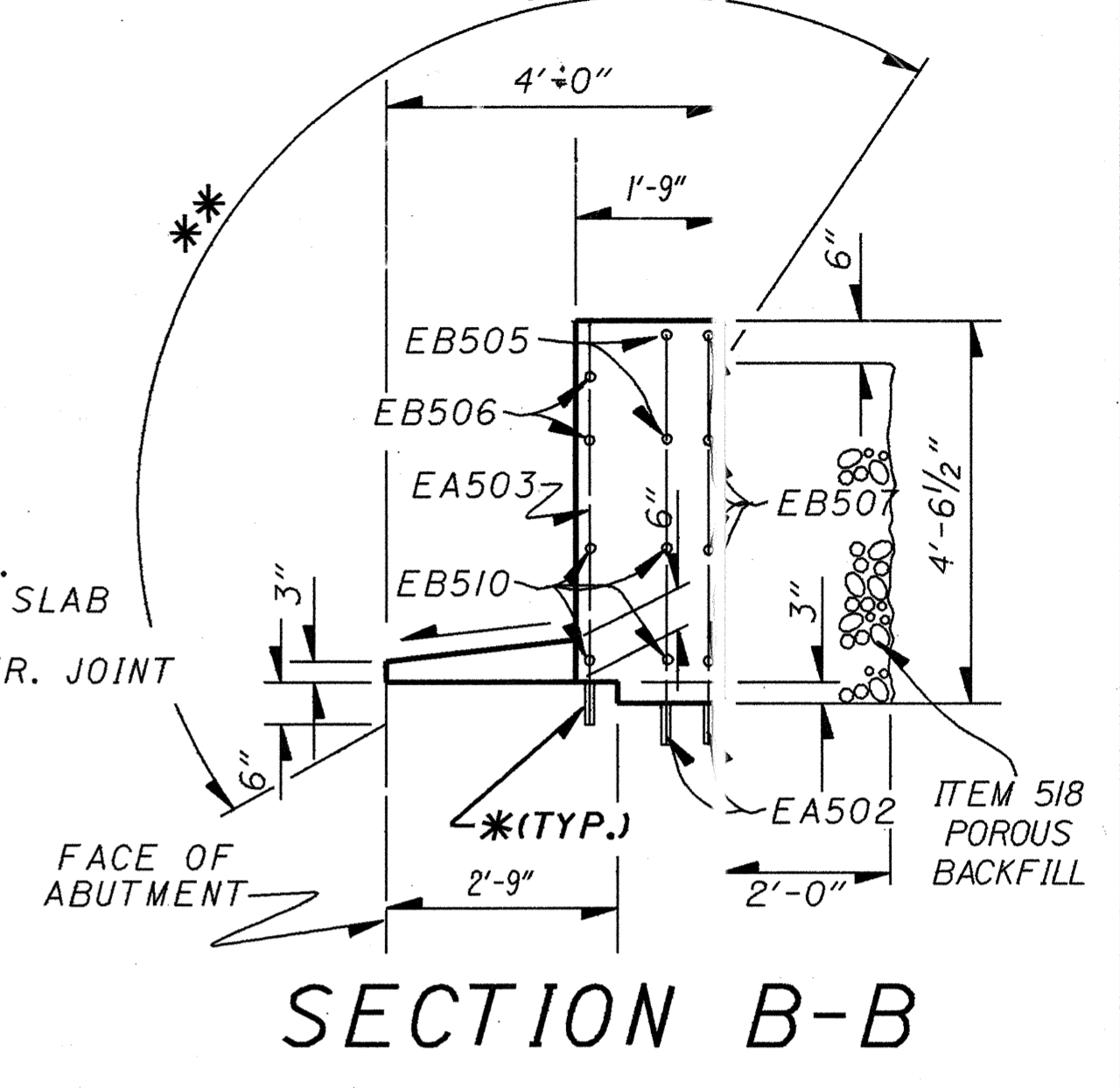
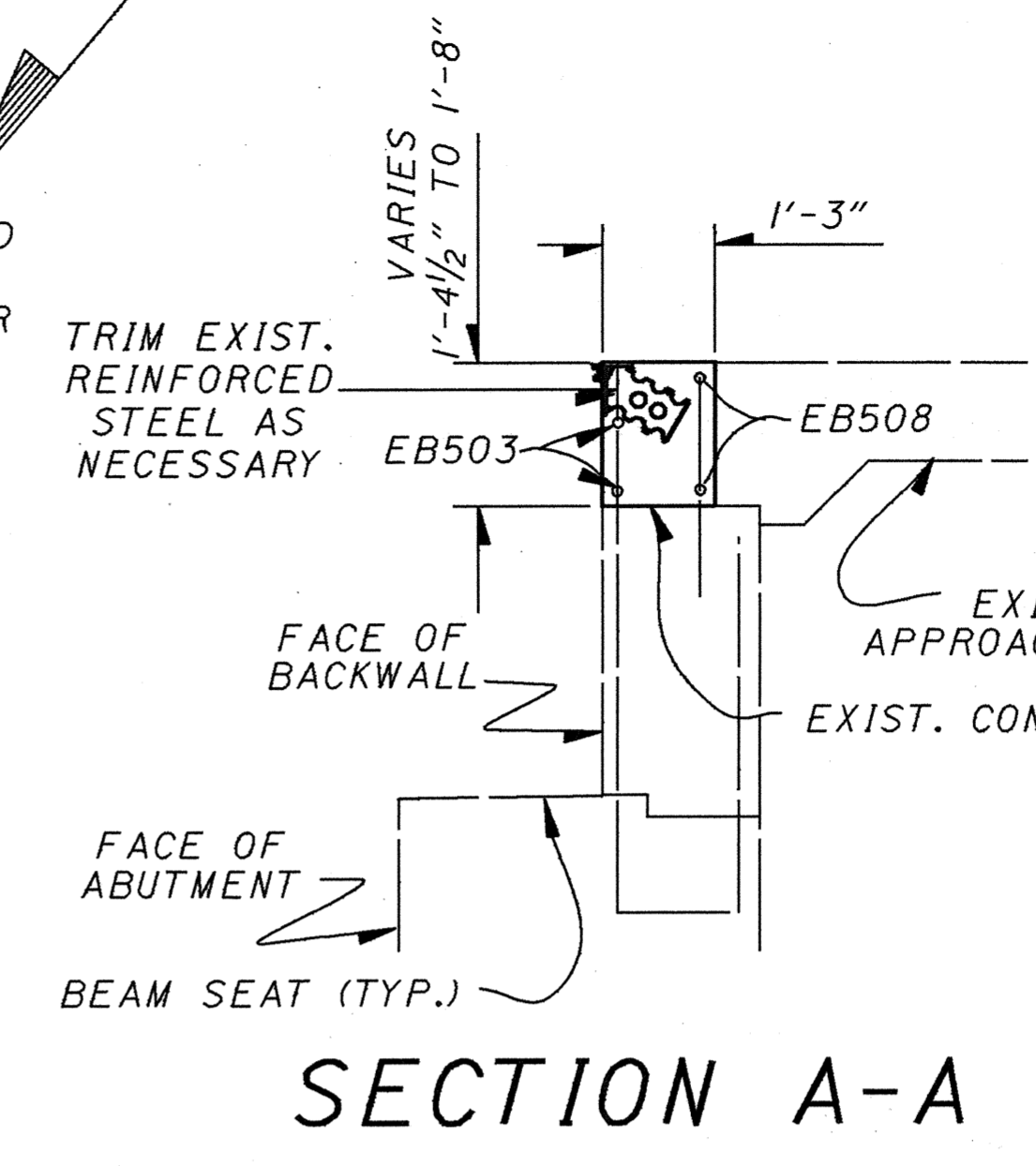
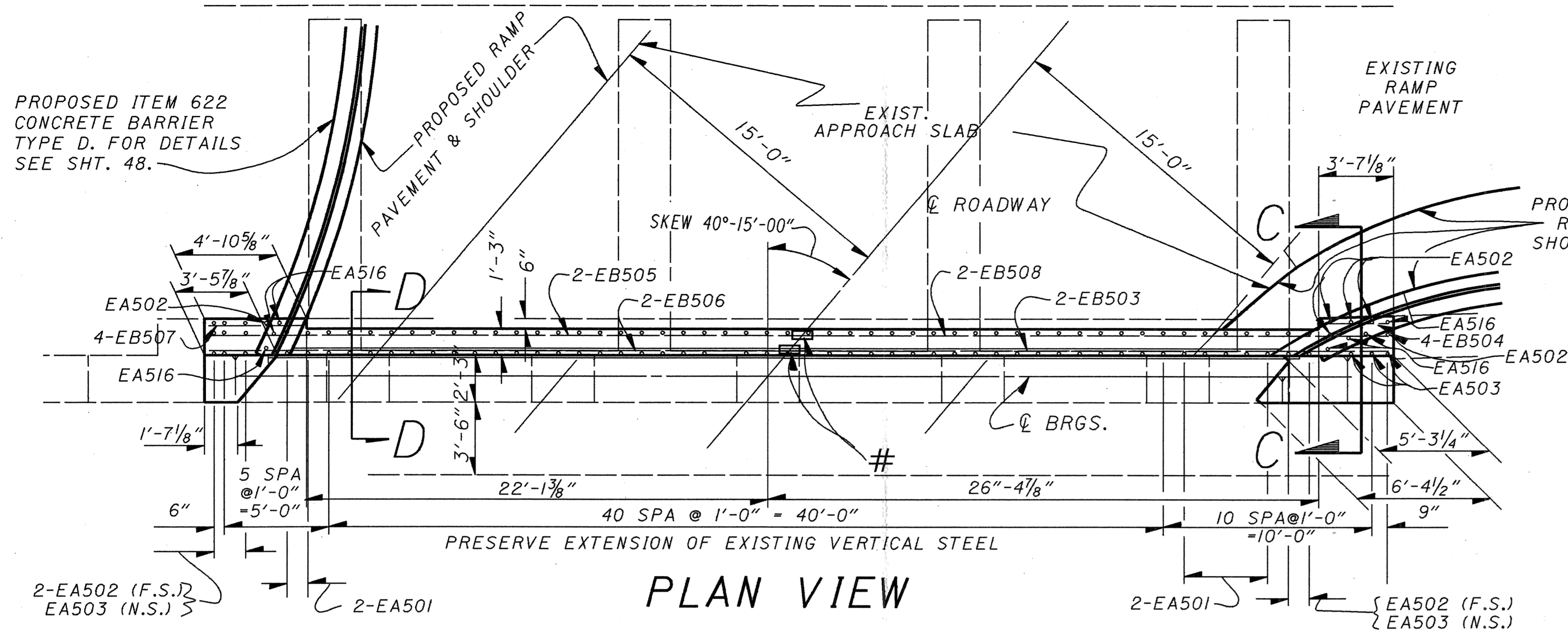
SECTION D-D

SECTION C-C

- LEGEND**
- REMOVE BACKWALL TO APPROACH SLAB SEAT
 - REMOVE SAFETY CURB
 - REMOVE WINGWALL TO BEAM SEAT

STATE OF OHIO						7/15
DEPARTMENT OF TRANSPORTATION						
DISTRICT ONE PLANNING AND DESIGN OFFICE						
ABUTMENT REMOVAL DETAILS						
BR. NO. ALL-103-0030 S.R. 103 OVER						
NORFOLK SOUTHERN RAILROAD						
SOUTH ABUTMENT						
SFN 0203572						
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RS	RS	RS	JC	JMK	1/20/93	

DESIGN FILE : I:\dgn\bentley\at7522ad3.dgn
 USERNAME : nick
 DATE : 27-JAN-1993
 TIME : 12:00

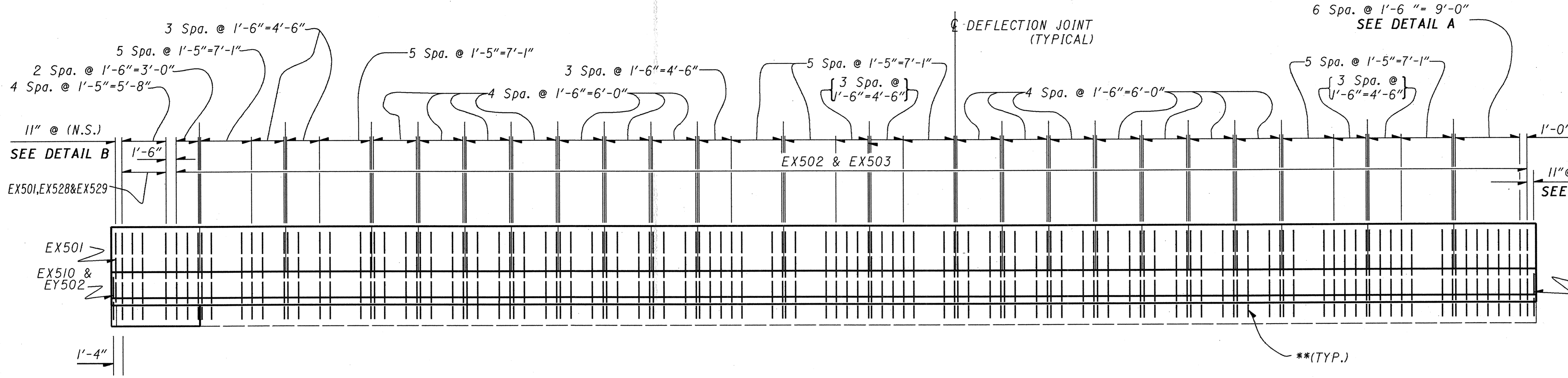


NOTE: FOR STRIP SEAL DETAILS SEE SHT 128.
 NOTE: PRESERVE SEXTENSIONS OF ALL VERTICAL STEEL IN BACKWALL.
 NOTE: FOR CONCRETE BARRIER DETAILS SEE SHT 48.

- * GROUT PROPOSED REINFORCING BARS INTO HOLES DRILLED INTO EXISTING CONCRETE IN ACCORDANCE WITH SS 852 & SPEC. 705.20. HOLES SHALL BE 12" DEEP.
- # MECHANICAL CONNECTORS @ ϕ ROADWAY TO BE INCLUDED WITH ITEM 509 EPOXY COATED REINFORCING STEEL.
- ** SURFACE TO BE EPOXY SEALED.

STATE OF OHIO		8 / 15	
DEPARTMENT OF TRANSPORTATION			
DISTRICT ONE PLANNING AND DESIGN OFFICE			
ABUTMENT REHABILITATION DETAILS			
BR. NO. ALL-103-0030 S.R. 103 OVER NORFOLK SOUTHERN RAILROAD SOUTH ABUTMENT SFN 02(3572			
DESIGNED	DRAWN	TRACED	CHECKED
REVIEWED	DATE	REVISED	
RLS	RLS	RLS	JRC
DATE	1/28/93		

DESIGN FILE : i:\dgn\bentley\75222ad3.dgn
 USERNAME : nick
 DATE : 27-JAN-1993
 TIME : 12:06



ELEVATION

VERTICAL STEEL IN DEFLECTOR PARAPET

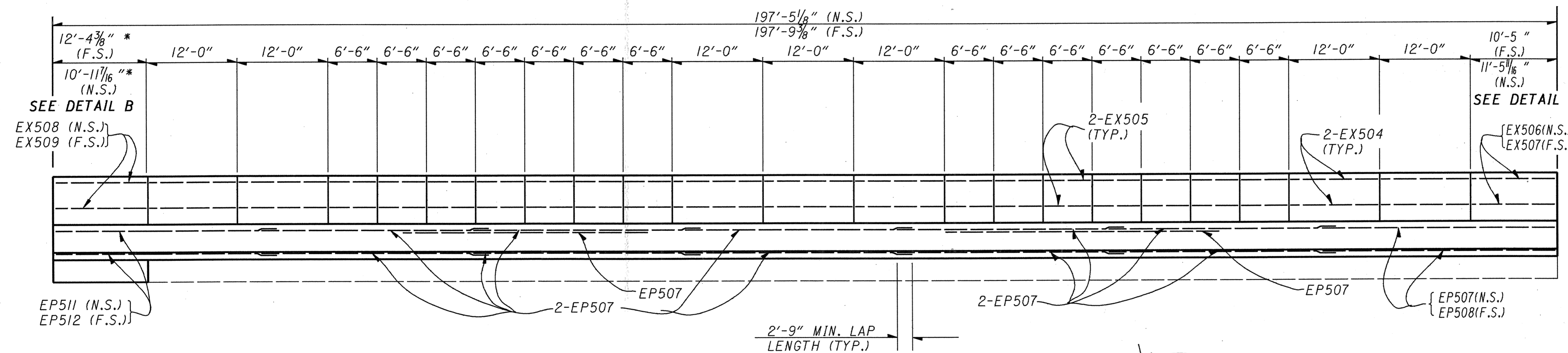
LEGEND

- N.S. - NEAR SIDE
- F.S. - FAR SIDE
- * - RADIAL DIMENSION
- ** - GROUT PROPOSED REINFORCING BARS INTO HOLES DRILLED INTO EXIST. CONCRETE IN ACCORDANCE WITH SS852 & SPEC. 705.20. HOLES SHALL BE 6" DEEP.

NOTES

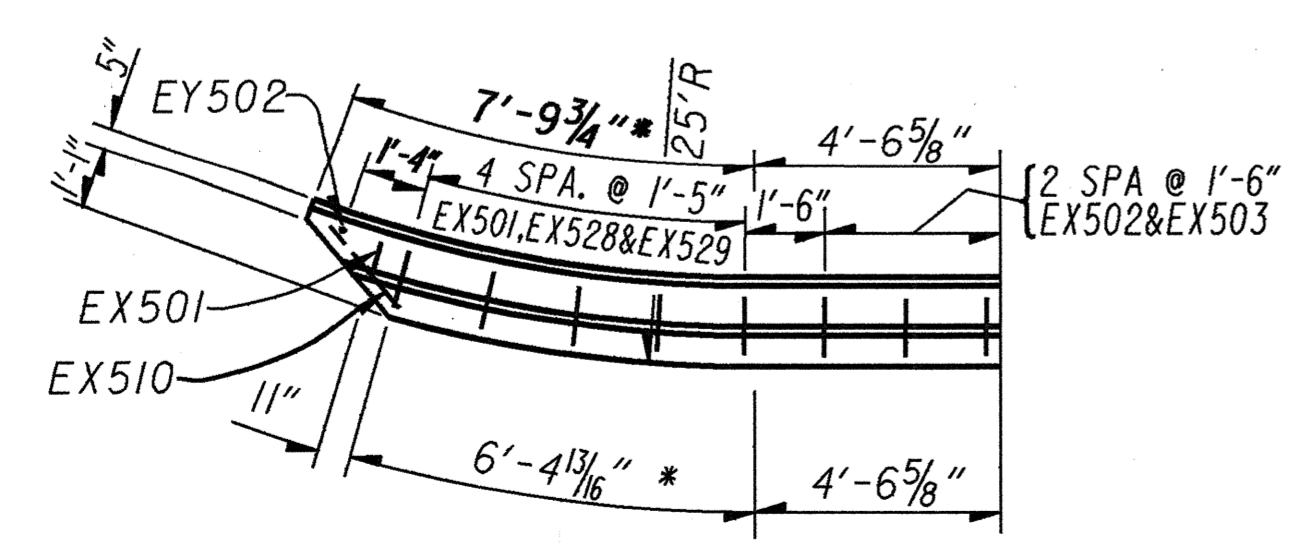
- 1) - ALL SPACING BETWEEN ϕ DEFLECTION JOINT AND ϕ OF VERTICAL REINFORCING STEEL BARS SHALL BE A MINIMUM OF 2 1/2" UNLESS OTHERWISE NOTED.
- 2) - CONCRETE PARAPETS ABOVE THE CONSTRUCTION JOINT SHALL BE PLACED IN ALTERNATING SECTIONS BY THE USE OF BULKHEADS. CLOSING SECTIONS SHALL BE PLACED AFTER THE REMOVAL OF THE BULKHEADS AND AFTER THE PLACEMENT OF THE EXPANSION JOINT FILLER. EXPOSED EDGES OF THE FILLER SHALL BE FLUSH WITH THE SURFACE OF THE CONCRETE AND SHALL BE FREE OF MORTAR.
- 3) - DRAWINGS NOT TO SCALE
- 4) - REINFORCING BARS SHALL NOT EXTEND THROUGH THE DEFLECTION JOINTS.
- 5) - SECTION SHOWN VIEWING FACE OF PARAPET
- 6) - FOR DETAILS OF REMOVING THE EXISTING PARAPET AND THE RECONSTRUCTION OF THE PROPOSED SAFETY SHIELD PARAPET ON THE STRUCTURE, SEE SHT. 134.
- 7) - ALL REINFORCING STEEL SHALL BE EPOXY COATED

DESIGN FILE : I:\dgn\bentley\at7522p.dgn
 USERNAME : nick
 DATE : 27-JAN-1993
 TIME : 12:11



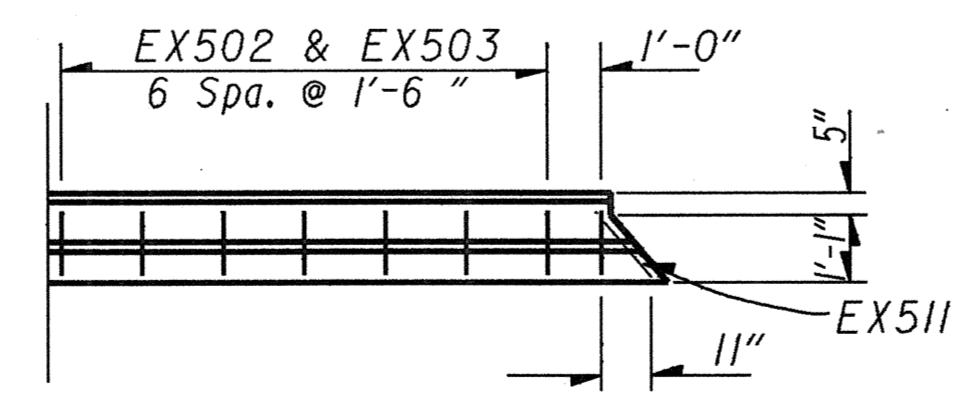
ELEVATION

HORIZONTAL STEEL IN DEFLECTOR PARAPET



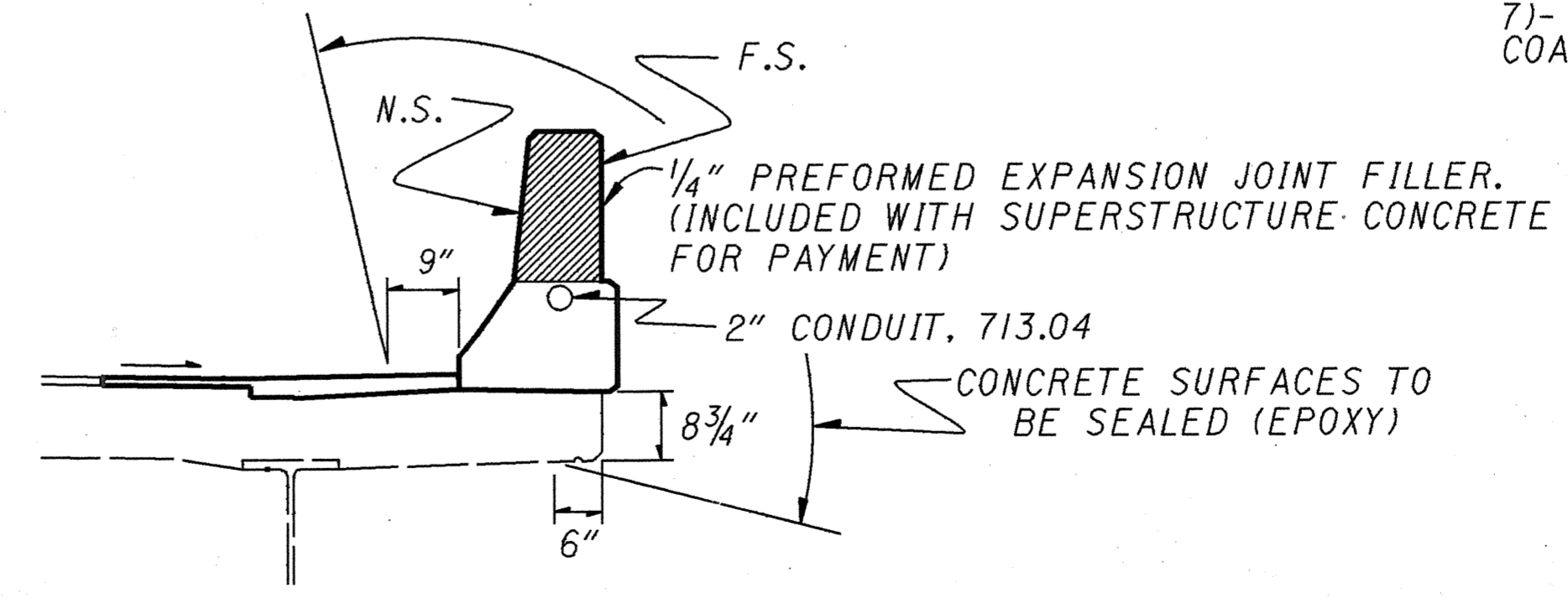
DETAIL B

(PLAN VIEW)



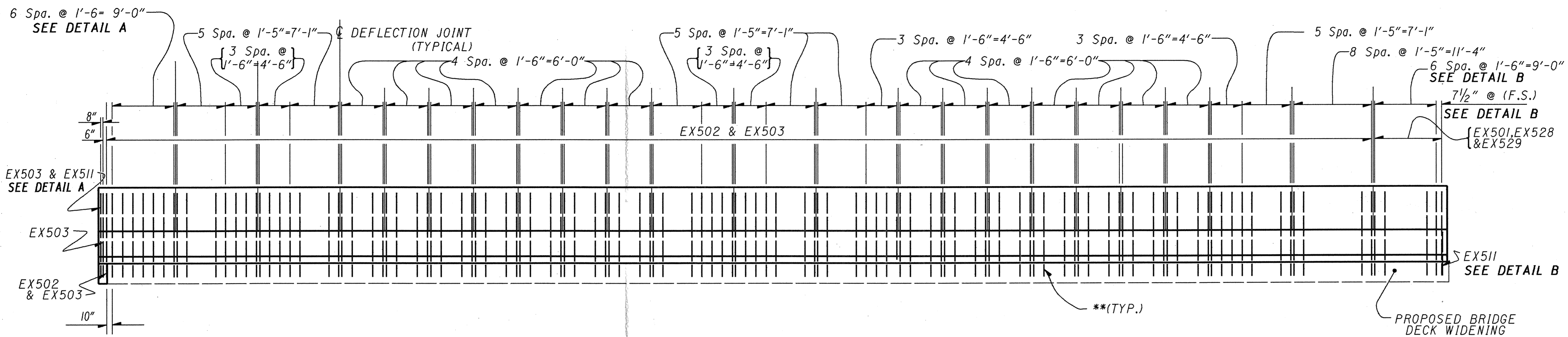
DETAIL A

(PLAN VIEW)



SECTION THRU DEFLECTION PARAPET

STATE OF OHIO		9/15	
DEPARTMENT OF TRANSPORTATION		PLANNING AND DESIGN DEPARTMENT	
DISTRICT ONE			
PARAPET DETAIL - LEFT SIDE			
STR. NO ALL-103-C030			
S.R. 103 OVER			
NORFOLK SOUTHERN RAILROAD			
SFN 0203572			
DESIGNED	DRAWN	TRACED	CHKD
REVIEWED	DATE	REVISED	
RLS	RLS	RLS	JJC
			JMK 1/29/93



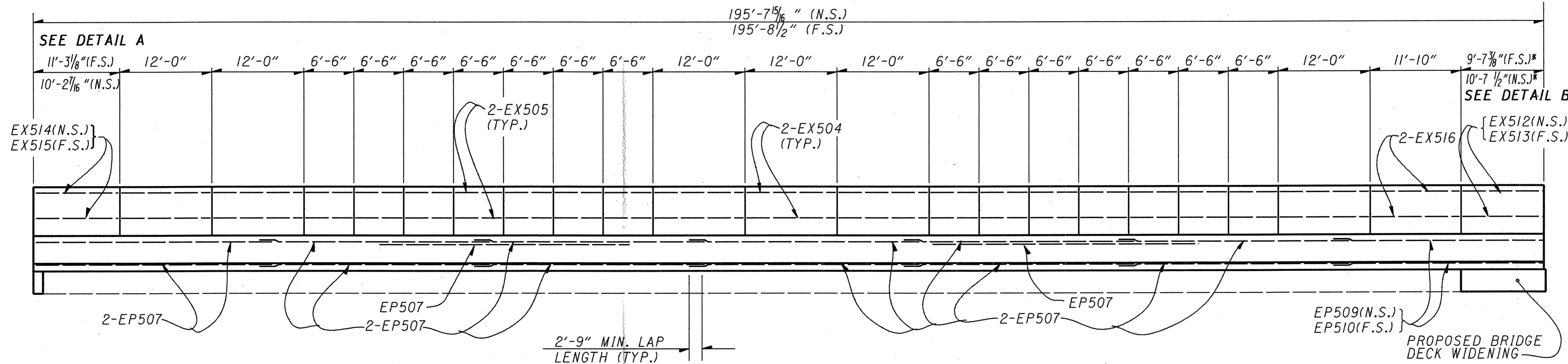
ELEVATION
VERTICAL STEEL IN DEFLECTOR PARAPET

LEGEND

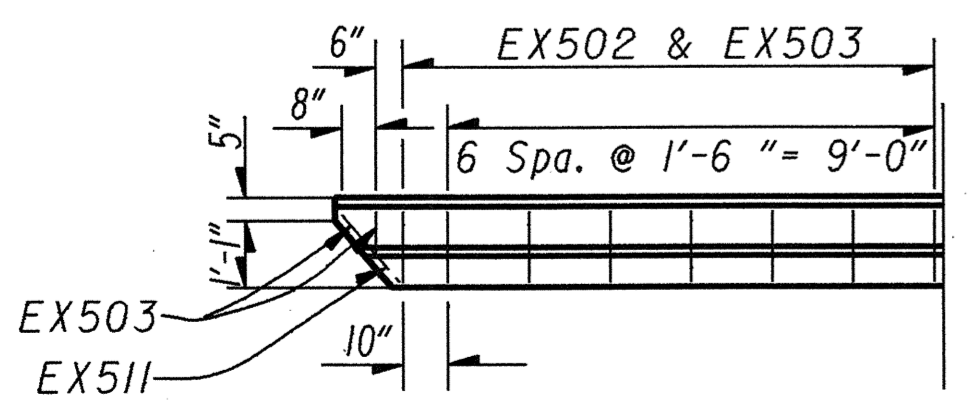
N.S. - NEAR SIDE
F.S. - FAR SIDE
* - RADIAL DIMENSION
** - GROUT PROPOSED REINFORCING BARS INTO HOLES DRILLED INTO EXIST. CONCRETE IN ACCORDANCE WITH SS852 & SPEC. 705.20. HOLES SHALL BE 6" DEEP.

NOTES

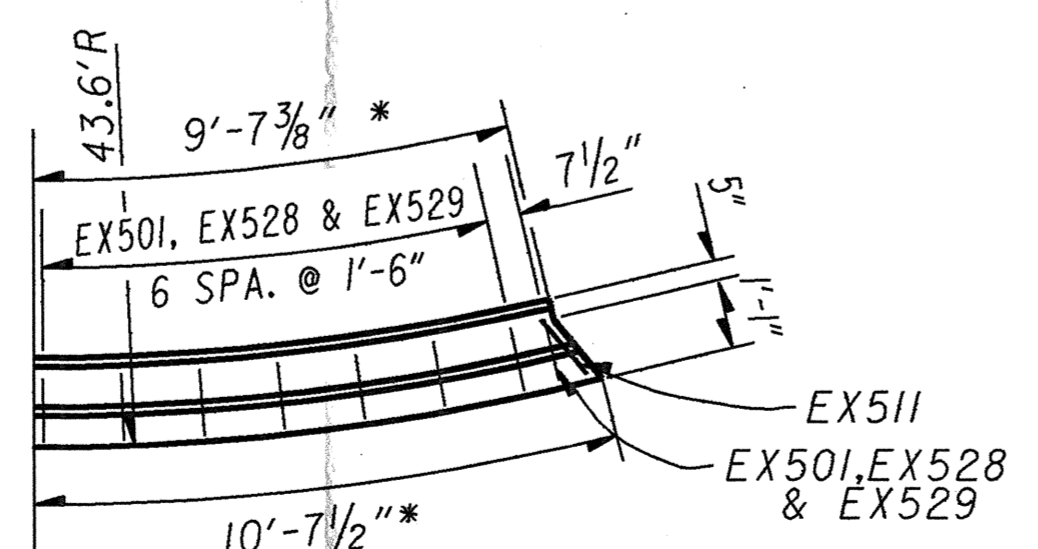
- 1) - ALL SPACING BETWEEN Q DEFLECTION JOINT AND Q OF VERTICAL REINFORCING STEEL BARS SHALL BE A MINIMUM OF 2 1/2" UNLESS OTHERWISE NOTED.
- 2) - CONCRETE PARAPETS ABOVE THE CONSTRUCTION JOINT SHALL BE PLACED IN ALTERNATING SECTIONS BY THE USE OF BULKHEADS. CLOSING SECTIONS SHALL BE PLACED AFTER THE REMOVAL OF THE BULKHEADS AND AFTER THE PLACEMENT OF THE EXPANSION JOINT FILLER. EXPOSED EDGES OF THE FILLER SHALL BE FLUSH WITH THE SURFACE OF THE CONCRETE AND SHALL BE FREE OF MORTAR.
- 3) - DRAWINGS NOT TO SCALE
- 4) - REINFORCING BARS SHALL NOT EXTEND THROUGH THE DEFLECTION JOINTS.
- 5) - SECTION SHOWN VIEWING FACE OF PARAPET
- 6) - FOR DETAILS OF REMOVING THE EXISTING PARAPET AND THE RECONSTRUCTION OF THE PROPOSED SAFETY SHAPE PARAPET ON THE STRUCTURE, SEE SHT. 10.4.
- 7) - ALL REINFORCING STEEL SHALL BE EPOXY COATED



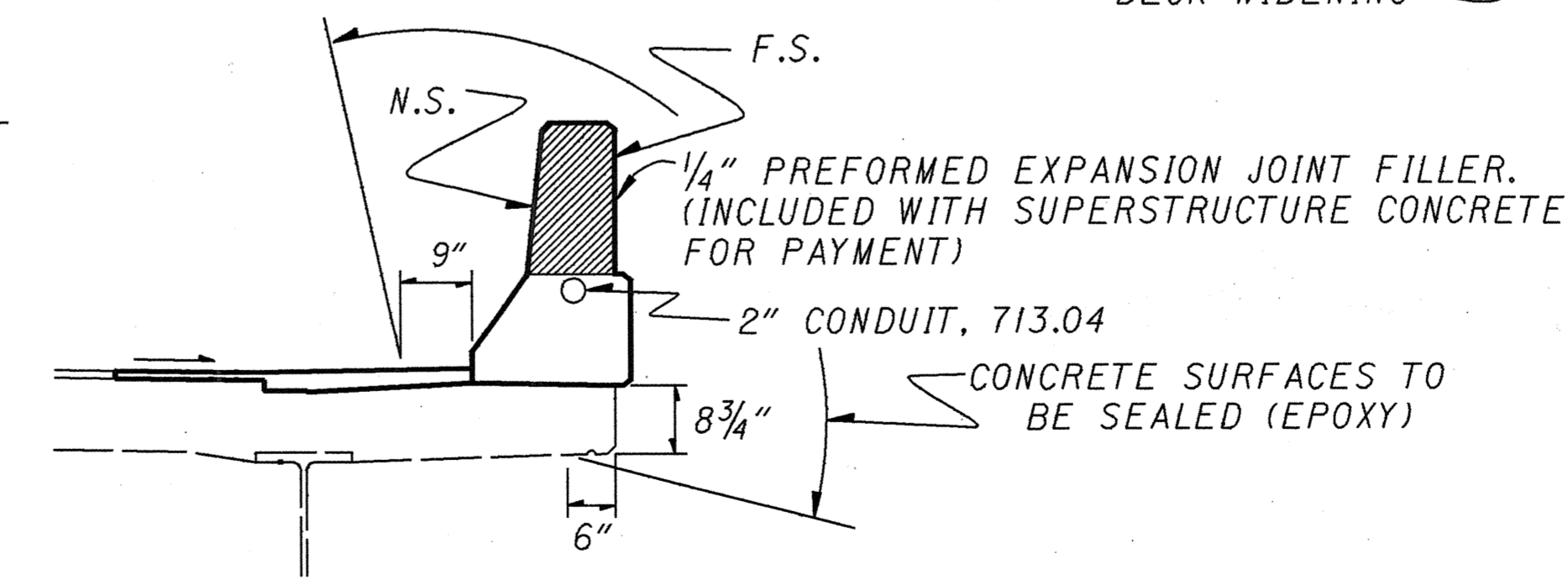
ELEVATION
HORIZONTAL STEEL IN DEFLECTOR PARAPET



DETAIL A
(PLAN VIEW)



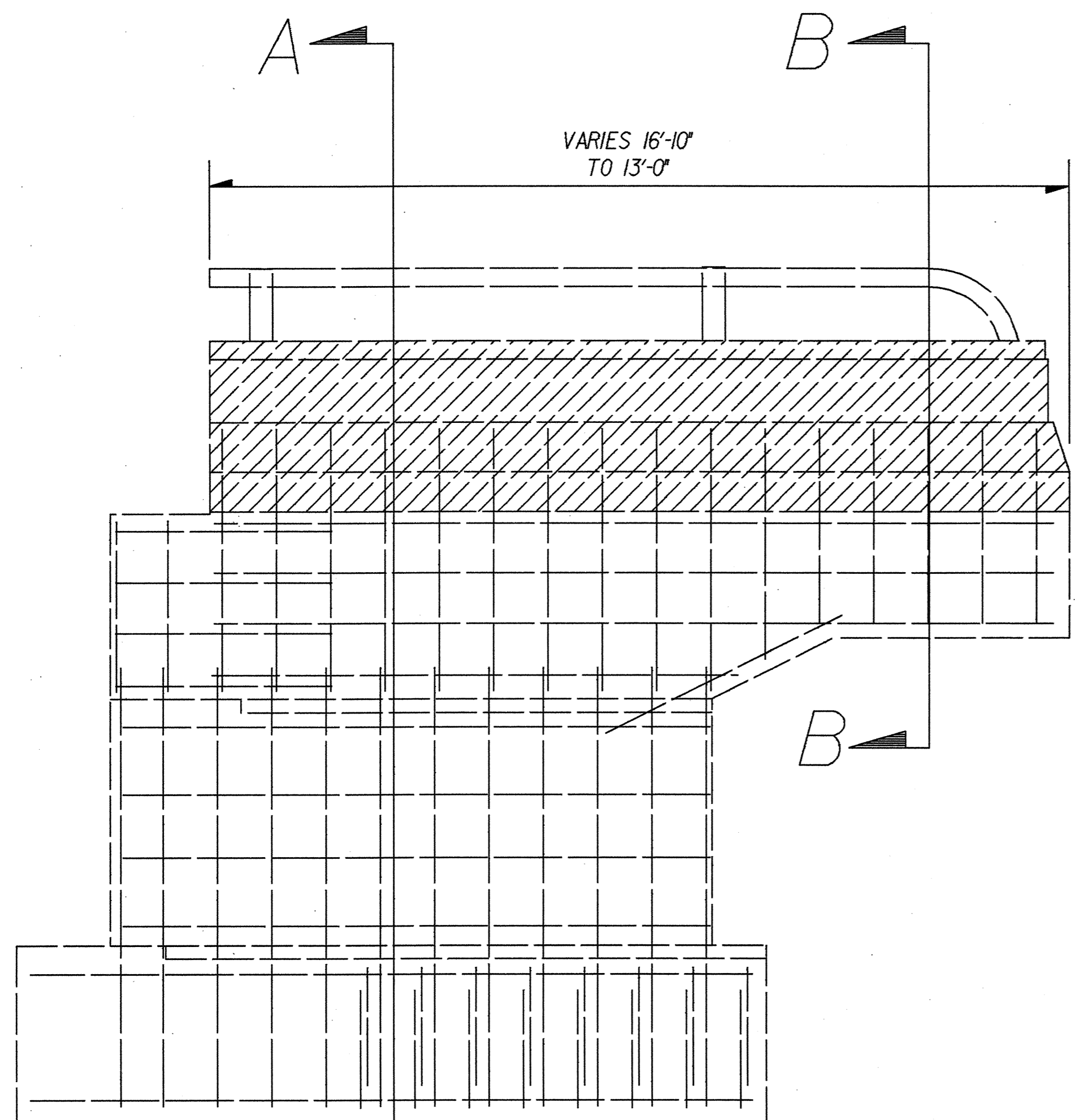
DETAIL B
(PLAN VIEW)



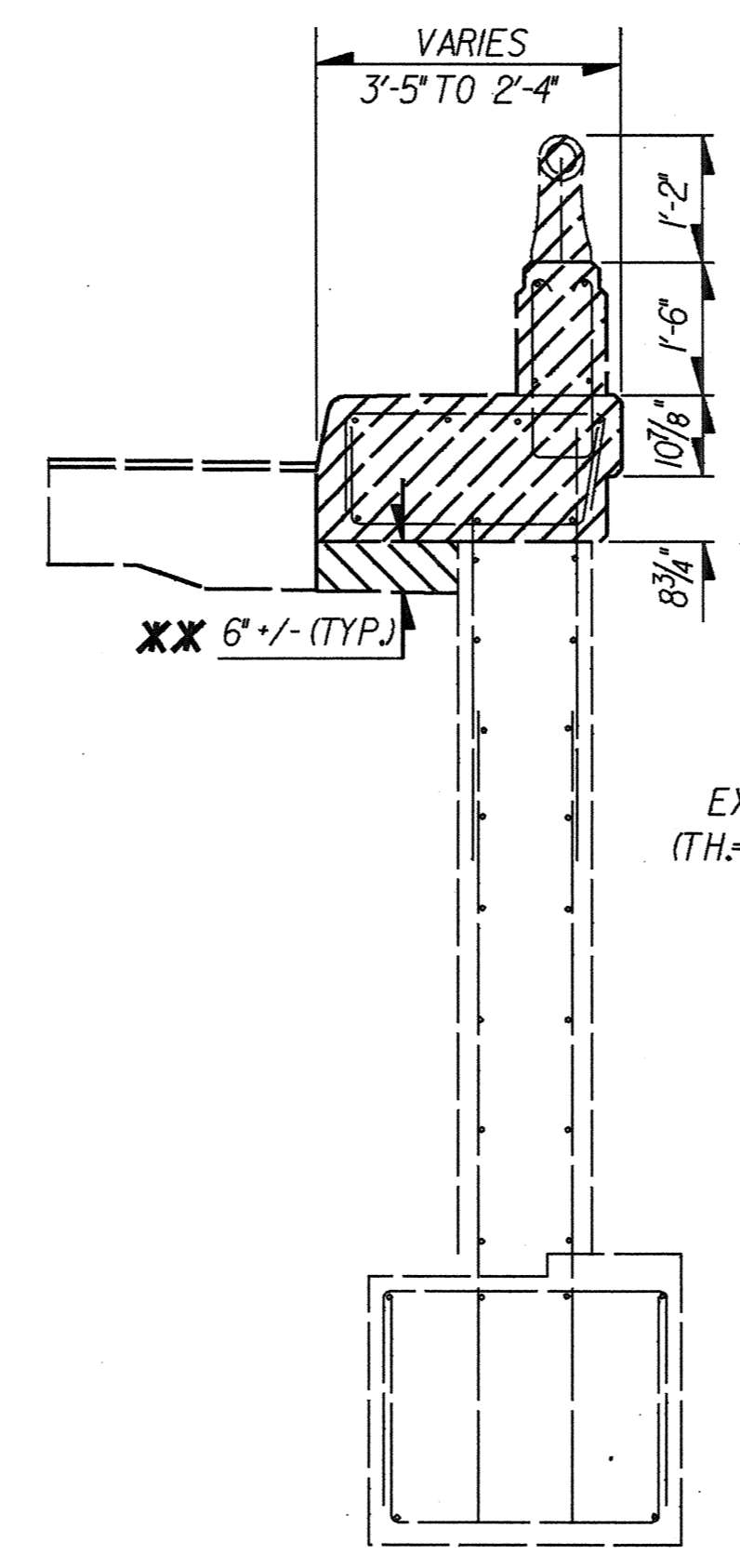
SECTION THRU DEFLECTION PARAPET

STATE OF OHIO		10/15	
DEPARTMENT OF TRANSPORTATION			
DISTRICT ONE		PLANNING AND DESIGN DEPARTMENT	
PARAPET DETAIL - RIGHT SIDE			
STR. NO ALL-103-030			
S.R. 103 OVER			
NORFOLK SOUTHERN RAILROAD			
SFN 0203572			
DESIGNED	DRAWN	TRACED	CH. CKD
REVIEWED	DATE	REVISED	
RLS	RLS	RLS	JLC
	1/28/92		

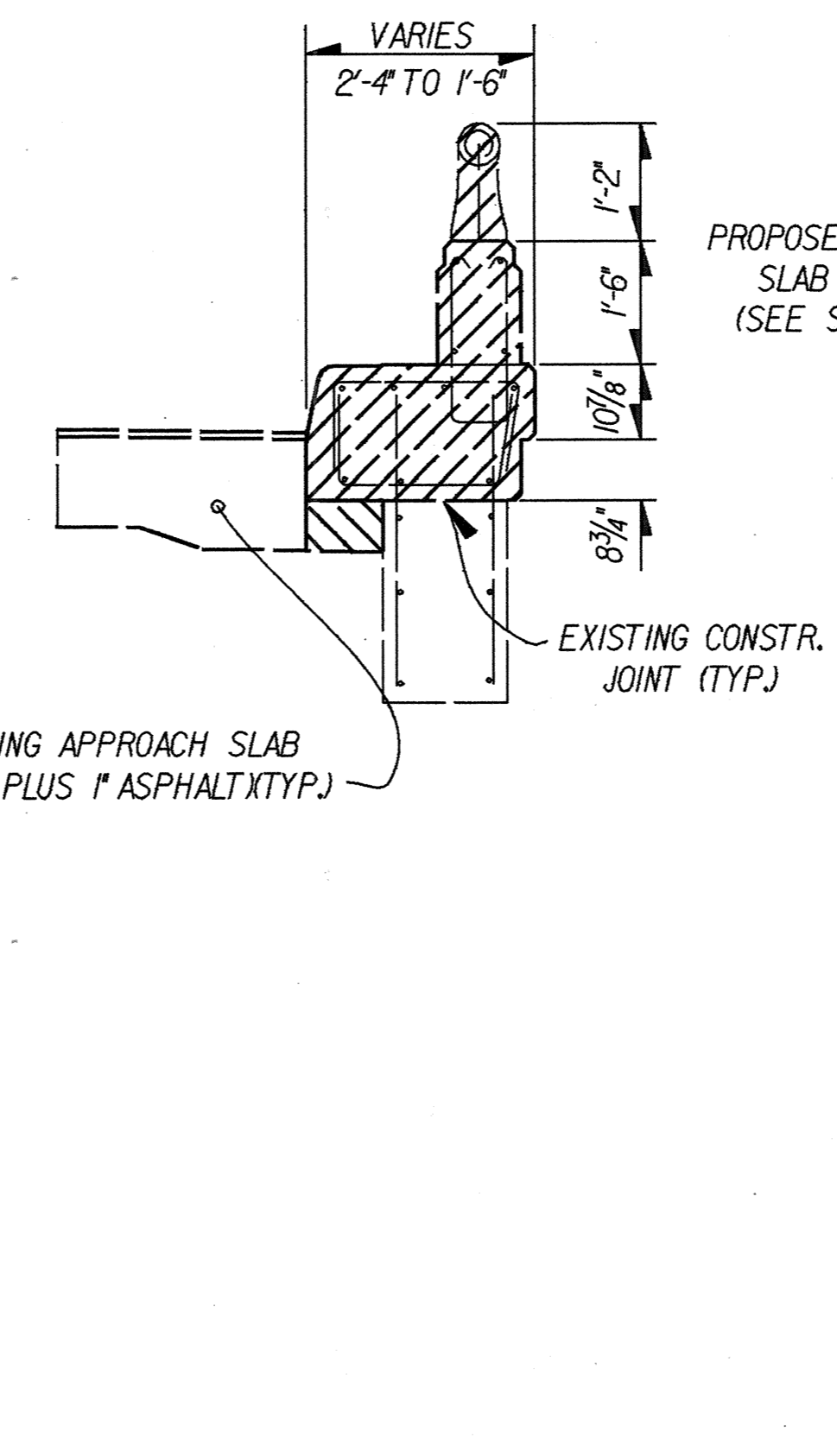
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USER NAME : nick
DATE : 27-JAN-1993
TIME : 12:15



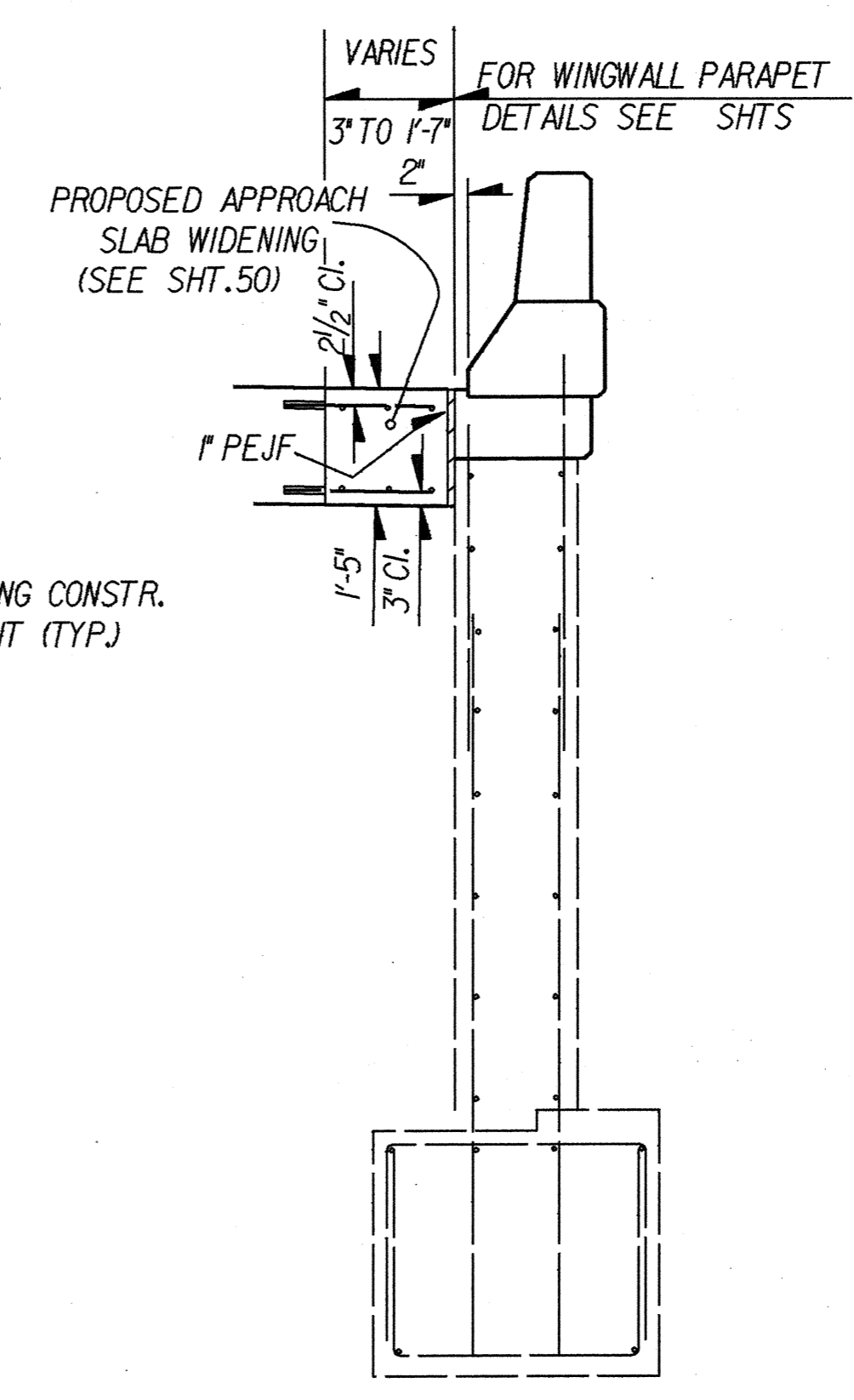
ELEVATION VIEW



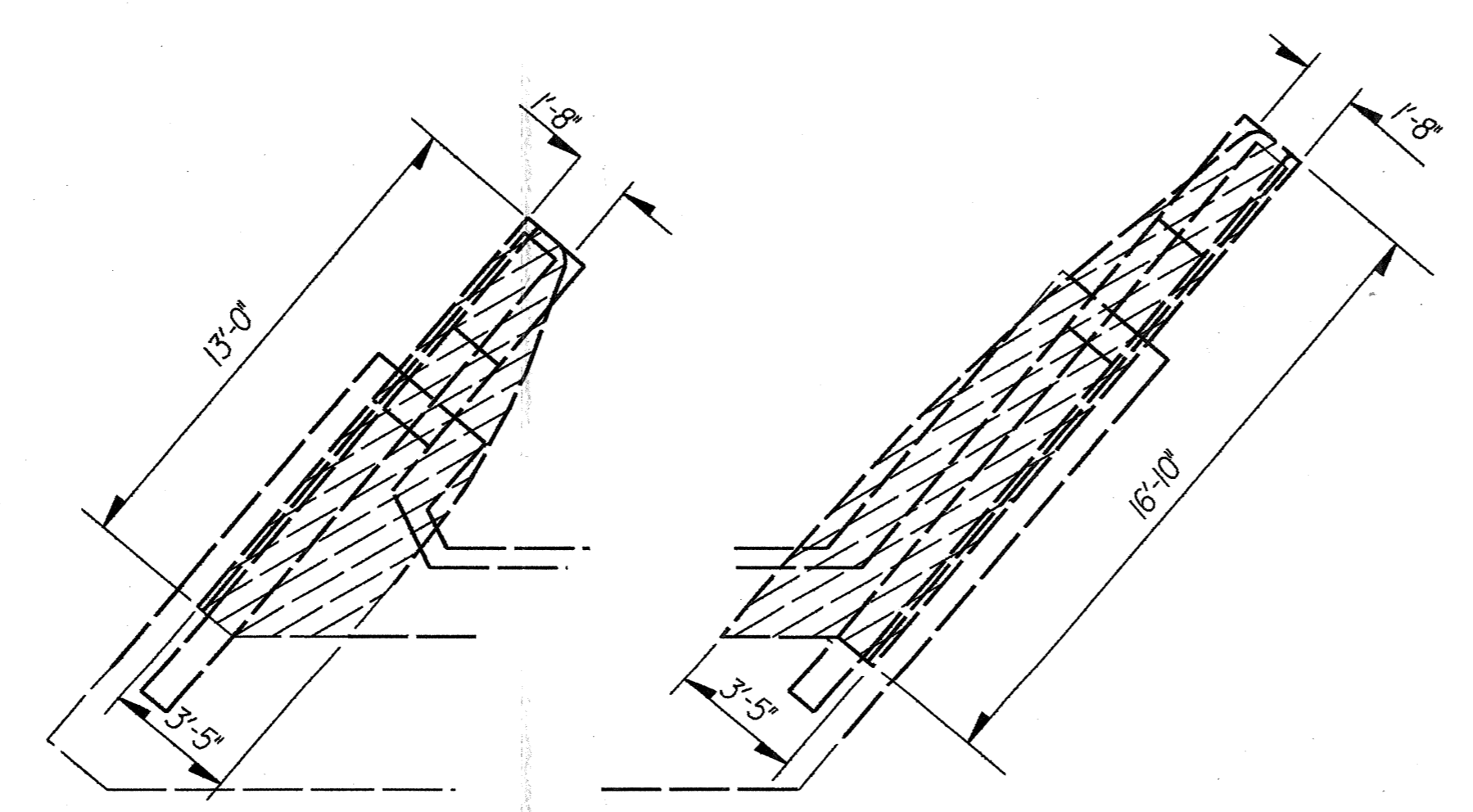
SECTION A-A (EXISTING)



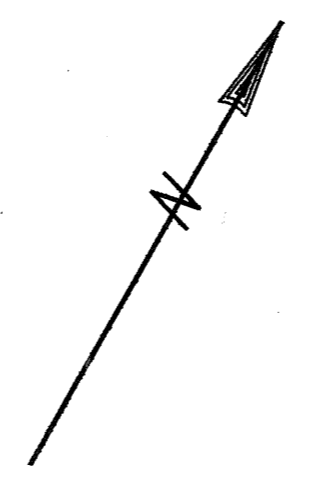
SECTION B-B



SECTION A-A (PROPOSED)



SAFETY CURB REMOVAL DETAIL (PLAN VIEW)



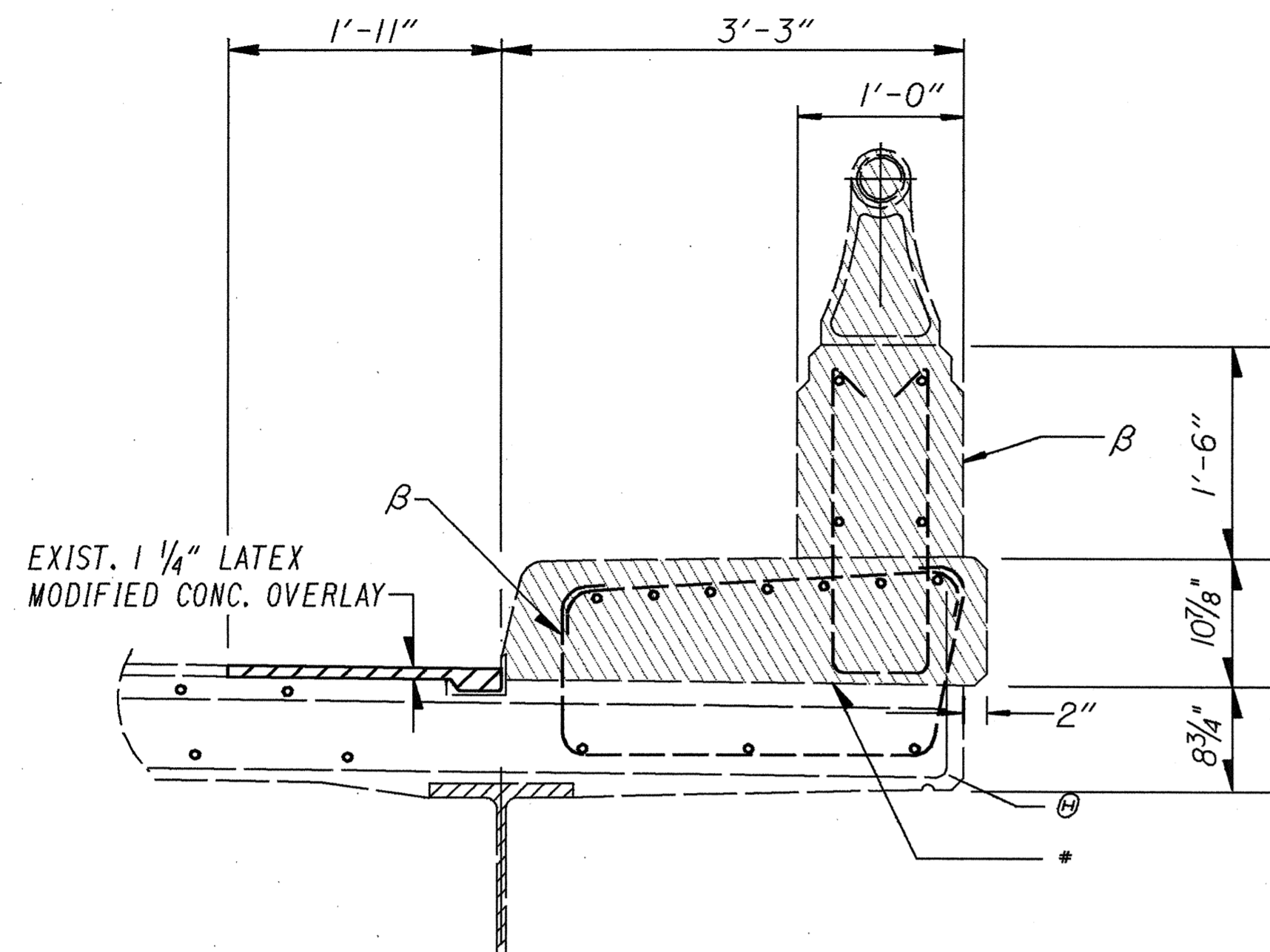
- LEGEND**
- ITEM 202 PORTIONS OF STRUCTURE REMOVED
 - ITEM 203 EXCAVATION **XX**

NOTE: FOR WINGWALL PARAPET DETAILS, SEE SHTS. 135-136.
 NOTE: PRESERVE EXTENSIONS ON ALL EXISTING VERTICAL STEEL
 NOTE: FOR ADDITIONAL EXISTING SAFETY CURB DIMENSIONS, SEE SHT. 125.

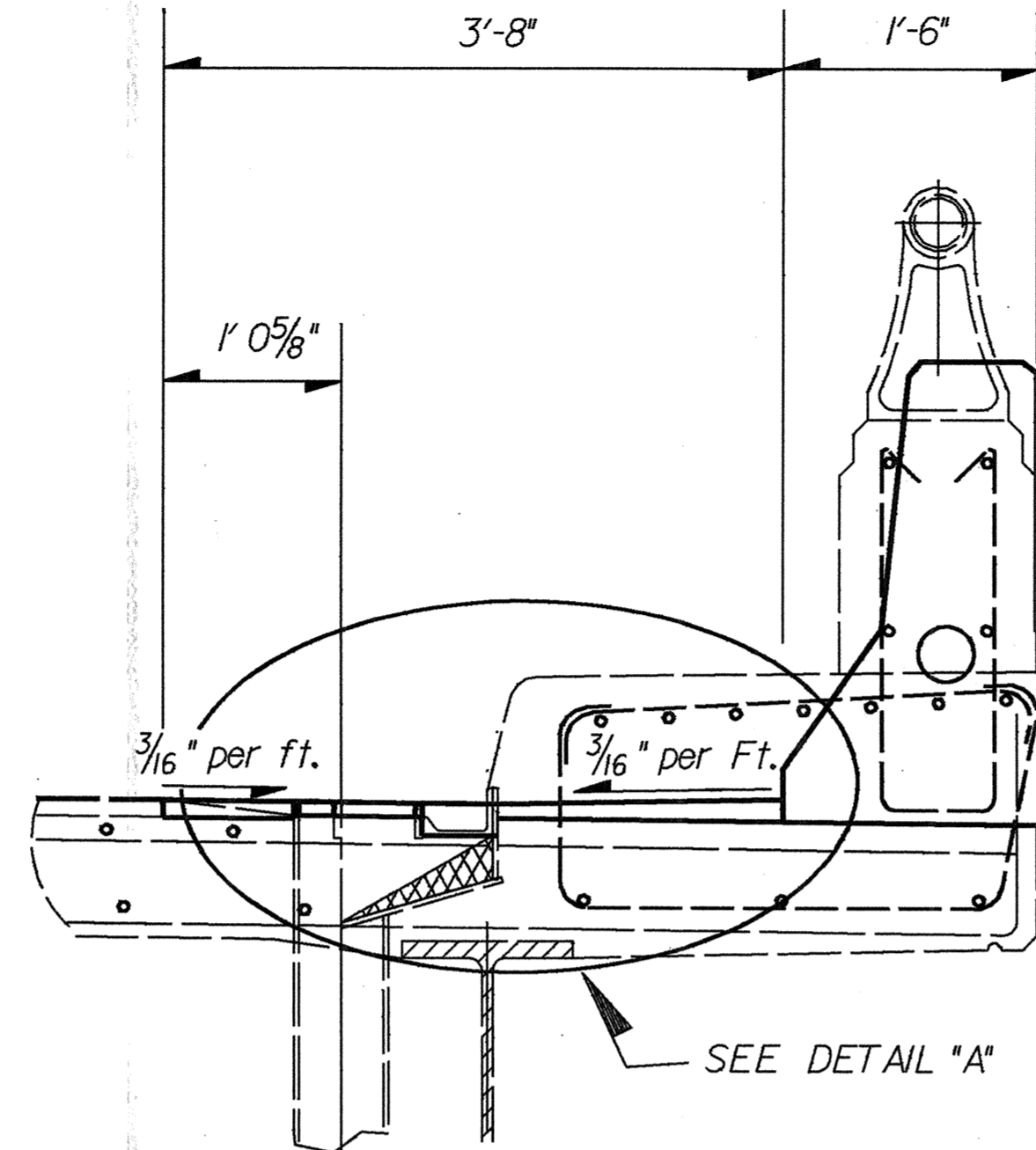
NOTE: REMOVAL OF SAFETY CURBS AND PARAPET INCLUDED WITH BRIDGE QUANTITIES. ALL OTHER WORK TO WIDEN APPROACH SLAB INCLUDED WITH ROADWAY QUANTITIES.

DESIGN FILE : i:\dgm\bentley\at7522ad6.dgn
 USERNAME : nick
 DATE : 27-JAN-1993
 TIME : 12:22

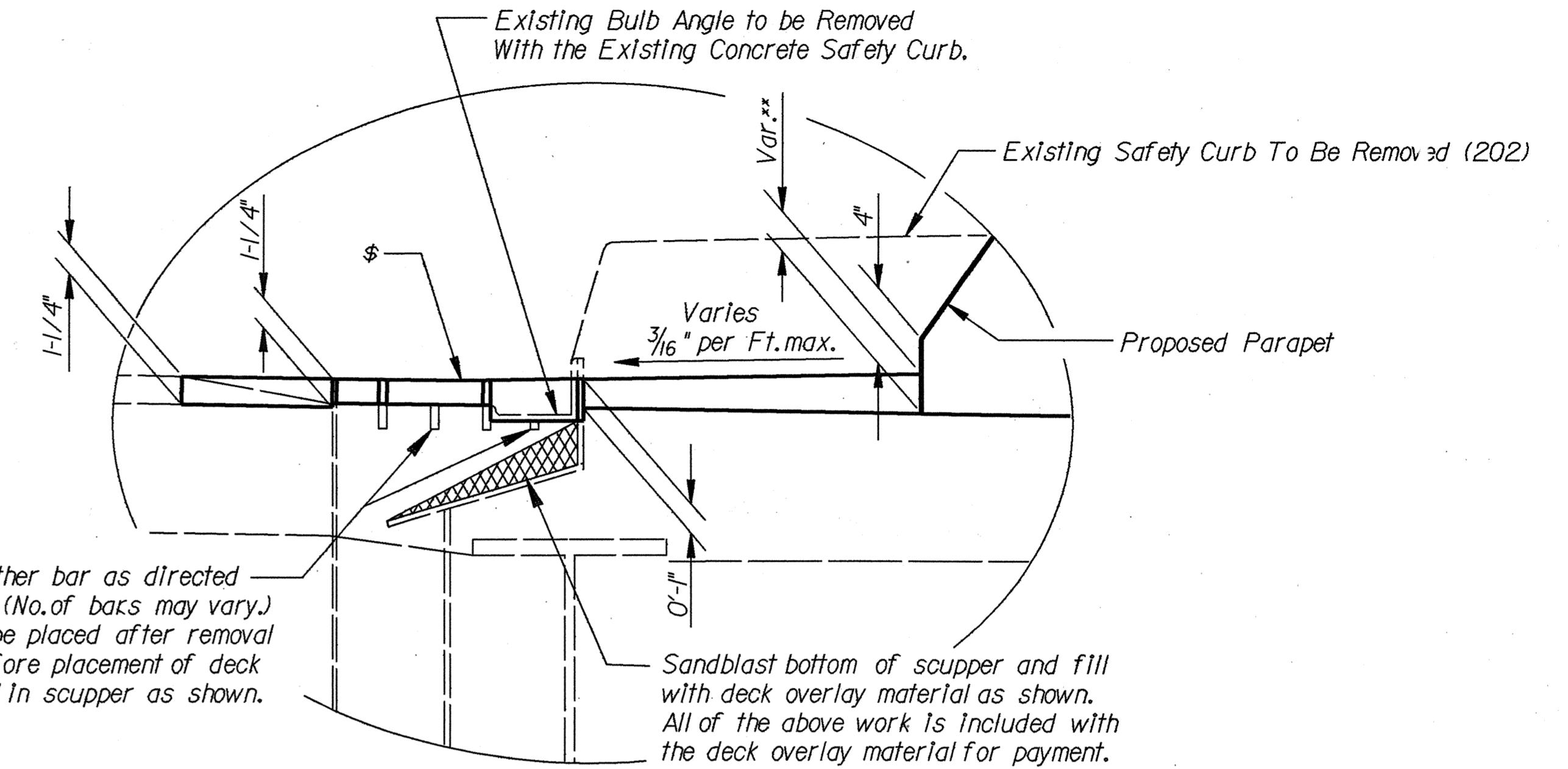
STATE OF OHIO		11 / 15	
DEPARTMENT OF TRANSPORTATION			
DISTRICT ONE PLANNING AND DESIGN OFFICE			
SAFETY CURB REMOVAL DETAILS			
STR. NO. ALL-103-0030			
S.R. 103 OVER NORFOLK SOUTHERN RAILROAD			
NORTH ABUTMENT			
SFN 0203572			
DESIGNED	DRAWN	TRACED	CHECKED
RES	RES	RES	JRC
REVIEWED	DATE	REVISED	
	1/28/93		



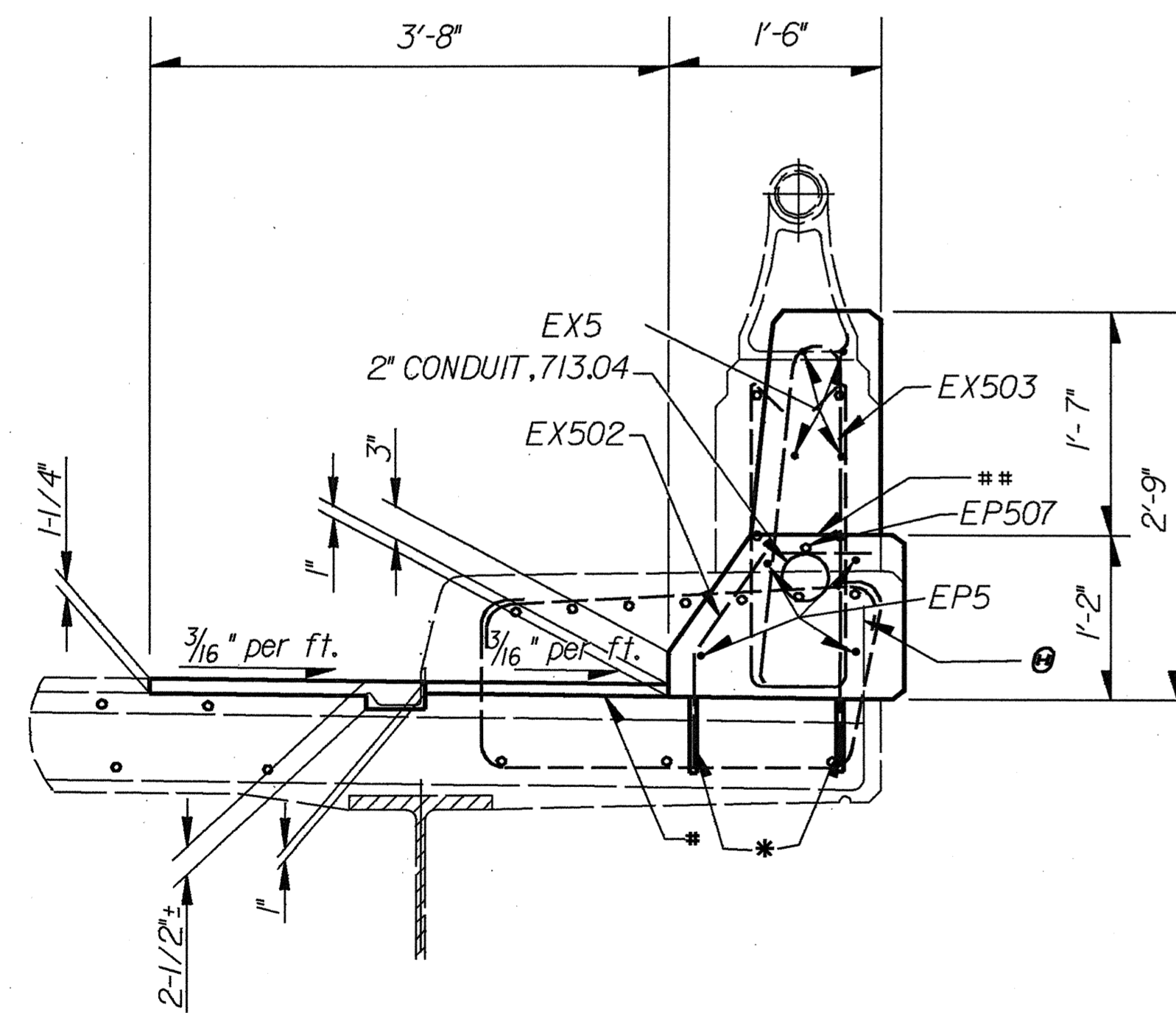
TYPICAL SECTION THRU EXISTING PARAPET ON STRUCTURE



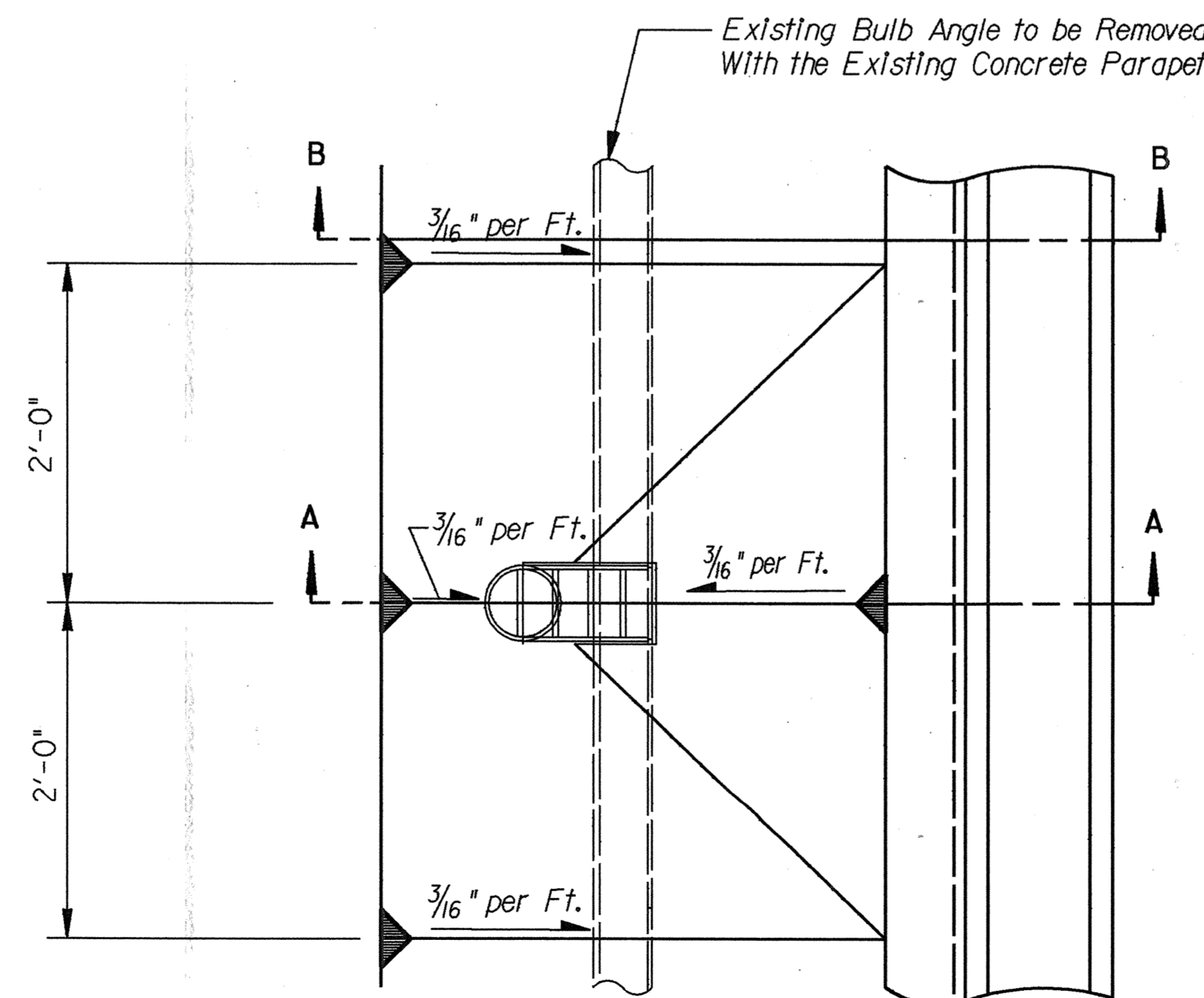
SECTION A-A
(Located at Exst. Scupper Locations)



DETAIL "A"



SECTION B-B
TYPICAL SECTION THRU PROPOSED SAFETY SHAPE PARAPET ON STRUCTURE
(Located In Constant Width Deck Areas)



SCUPPER DETAIL PLAN VIEW

LEGEND

- 1 1/4" Existing Concrete Deck Overlay Removal (Paid as Item 202 Wearing Course Removed)
- Existing Concrete Parapet and Safety Curb to be Removed (202).
- Proposed Item 845 Latex Modified Concrete.
- \$ - Vertical Extension of Existing Scuppers
- * - Existing Construction Joint
- ** - Proposed Construction Joint
- ⊕ - Save existing reinforcing bar and bend, (providing 2" clearance) if necessary, to incorporate it into the proposed vertical reinforcing wherever possible.
- β - Remove existing concrete Parapet and Curb to existing construction joint. Any existing exposed reinforcing steel not noted otherwise, shall be cut off even with the removal lines. Payment under Item 202, Portions of Structure Removed.
- * - Grout proposed reinforcing bars into holes drilled into existing concrete in accordance with Supplemental Specifications 852 & Spec.705.20. Holes shall be 6" deep.
- ** - Varies From 1" min. at Normal Deck Slope of 3/16"/ft. towards Parapet Railing to 1-3/8" max. at Scupper Locations as shown at left.
- *** - EP507 centered over piers.

NOTES:

All bars shall maintain a 2" minimum clearance from outside edge of Parapet unless otherwise noted.

Drawings not to scale.

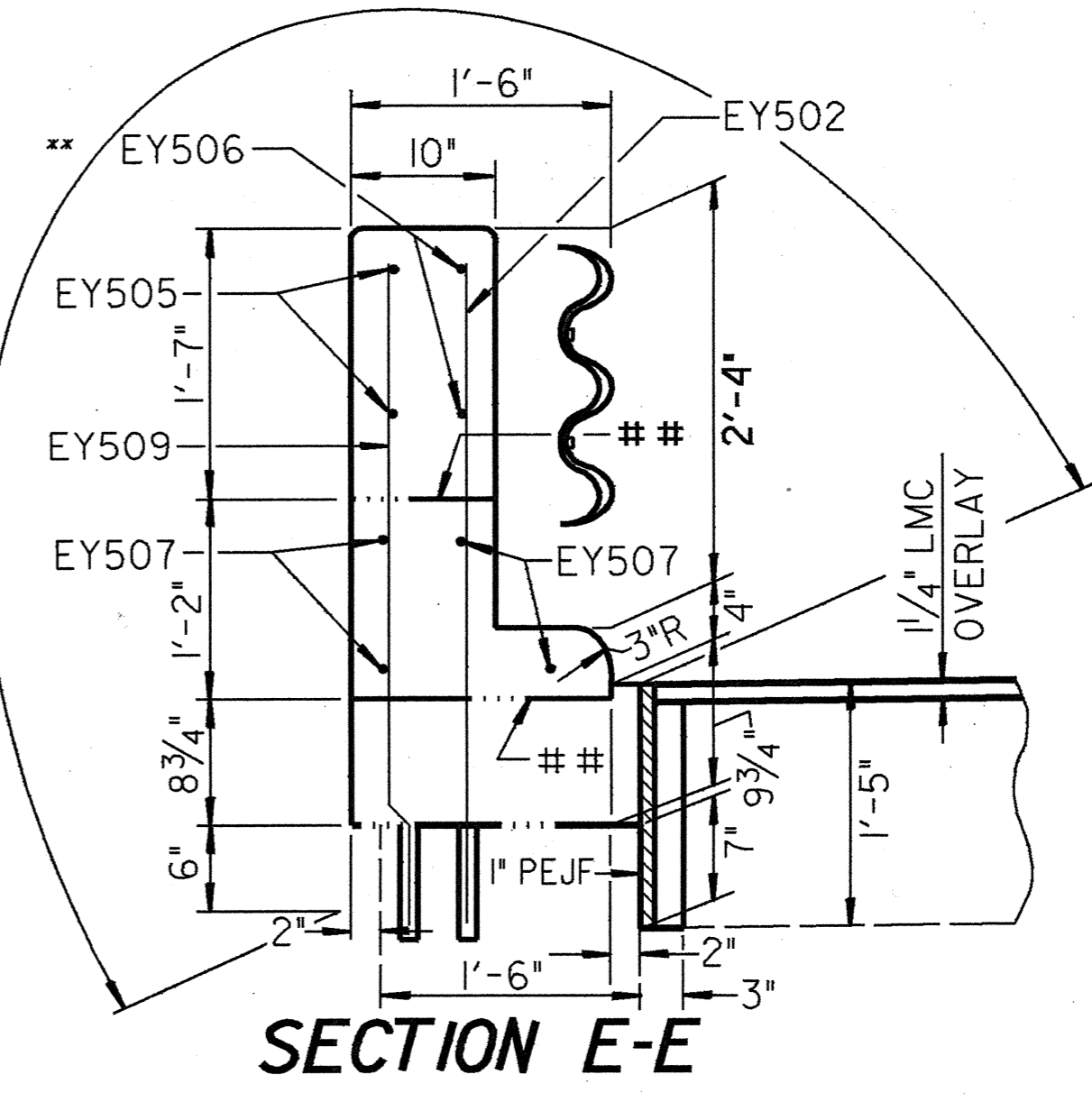
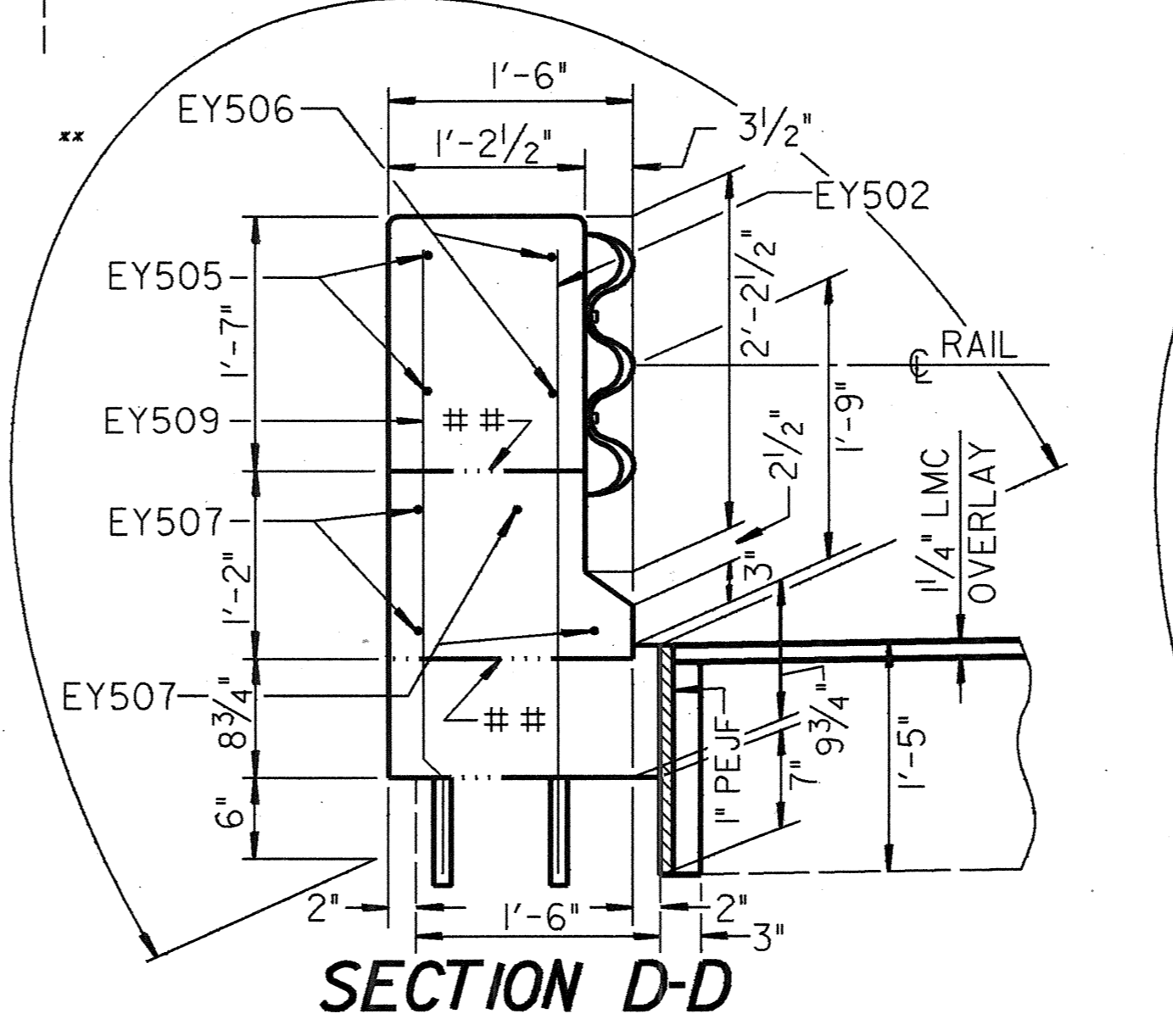
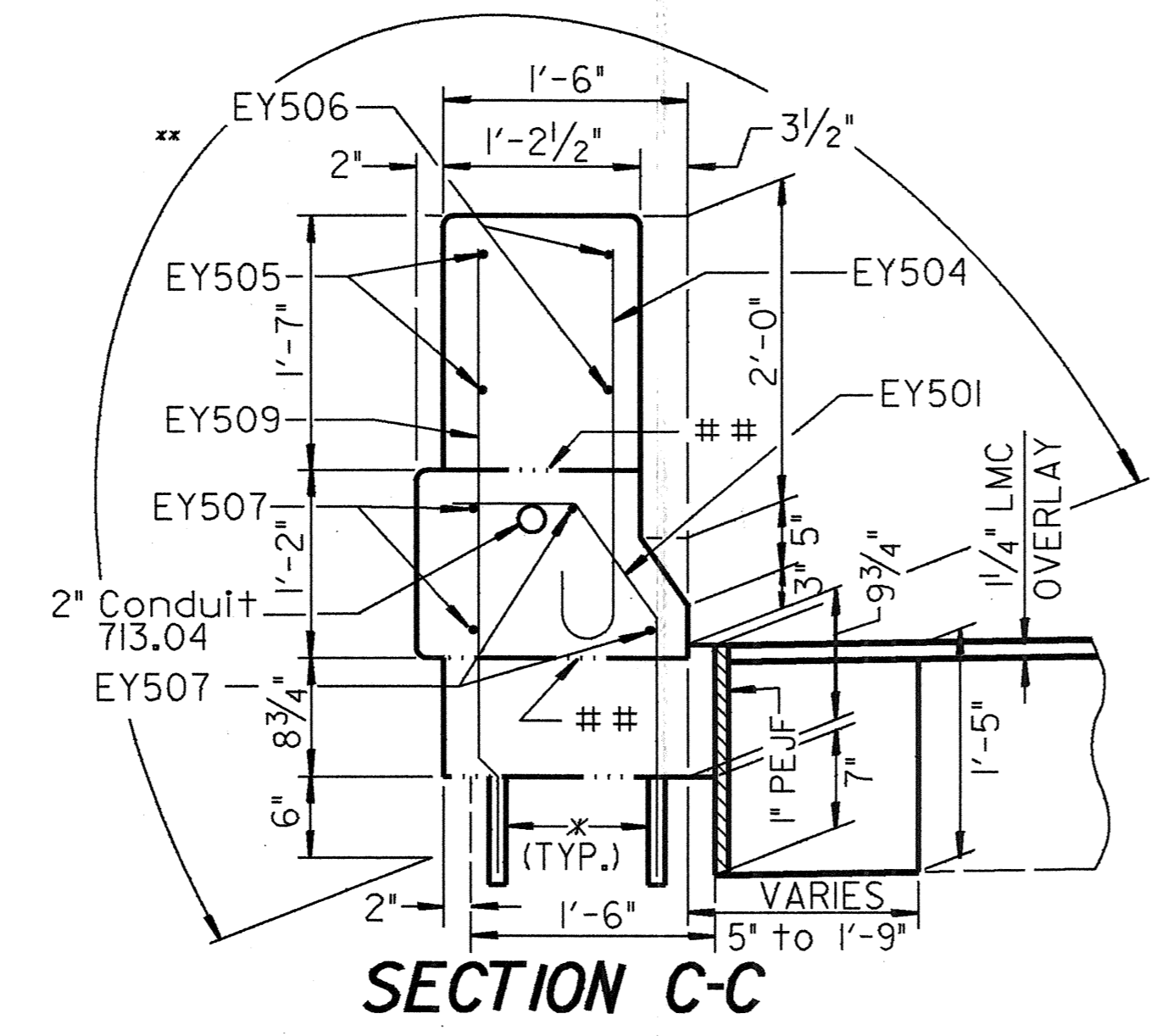
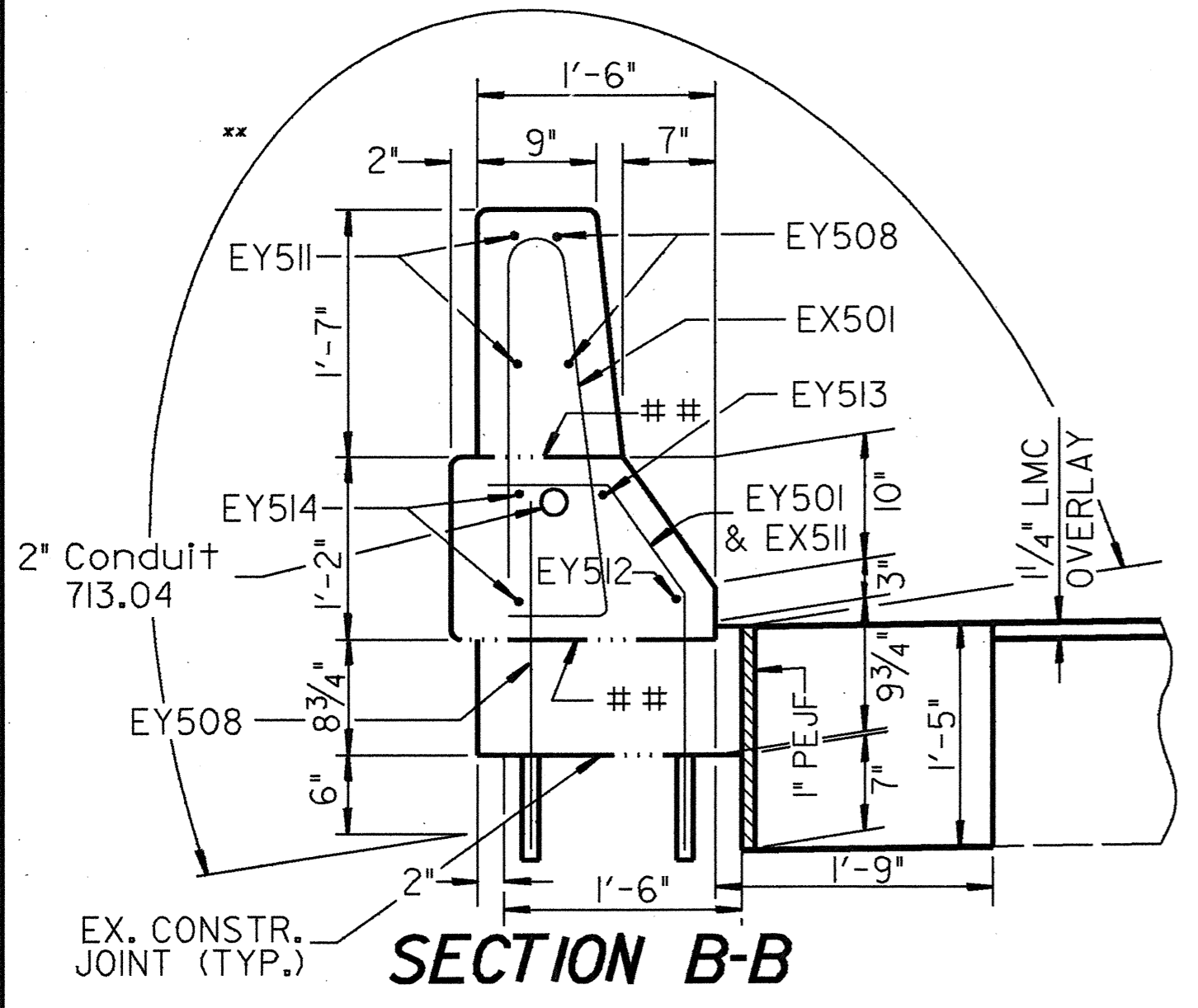
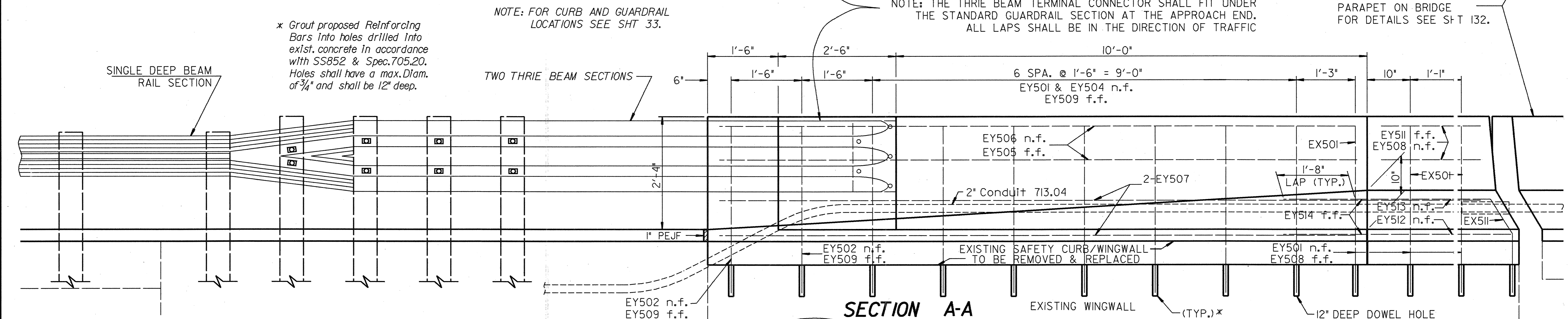
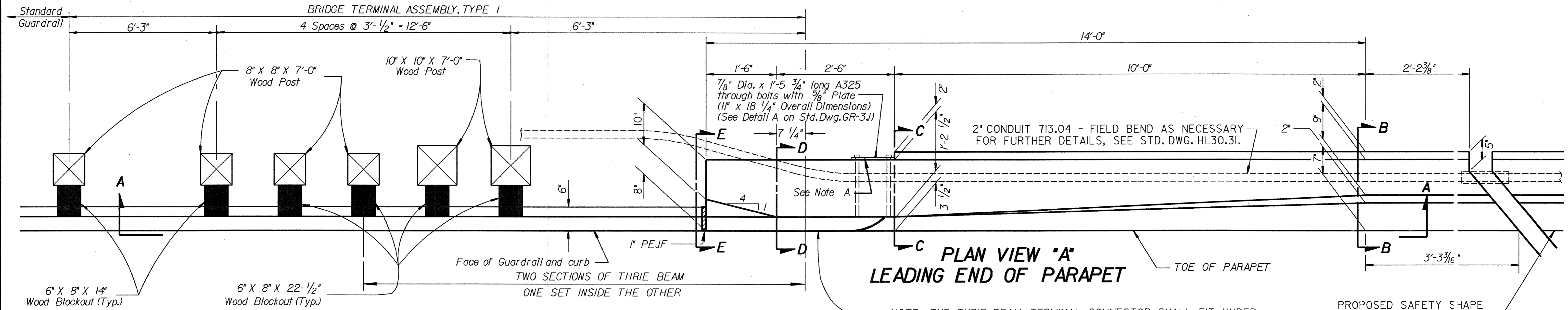
The top of the existing scupper shall be extended to the top of the proposed latex modified concrete overlay. The extension shall be paid under Item Special, Vertical Extension of Existing Scupper.

STATE OF OHIO		12/15	
DEPARTMENT OF TRANSPORTATION			
DISTRICT ONE PLANNING AND DESIGN OFFICE			
PARAPET REMOVAL AND RECONSTRUCTION DETAILS			
Br. No. ALL-103-0130 S.R.103 OVER NORFOLK SOUTHERN RAILROAD SFN 0203572			
DESIGNED	DRAWN	TRACED	CHECKED
RES	RES	RES	JSC
REVIEWED	DATE	REVISED	
JMK	1/28/93		

DESIGN FILE : i:\dgn\bentley\7522pd3.dgn
USERNAME : rick

DATE : 27-JAN-1993
TIME : 12:28

NOTE A: SEAL 5/8" PLATE ALL AROUND WITH HYPALON. INCLUDE WITH ITEM 606, BRIDGE TERMINAL ASSEMBLY, TYPE I FOR PAYMENT.



LEGEND
 n.f. ~ NEAR FACE
 f.f. ~ FAR FACE
 ## ~ CONST. JOINT
 ** ~ Concrete surfaces to be sealed (Epoxy)

STATE OF OHIO DEPARTMENT OF TRANSPORTATION DISTRICT ONE PLANNING AND DESIGN OFFICE		13 / 15
NORTHEAST WINGWALL PARAPET DETAILS		
BR. NO. ALL-103-003C S.R.103 OVER NORFOLK SOUTHERN R.R. SFN 0203572		
DESIGNED	DRAWN	TRACED
RLS	RLS	RLS
CHECKED	DATE	REVISION
JRL	1/28/82	

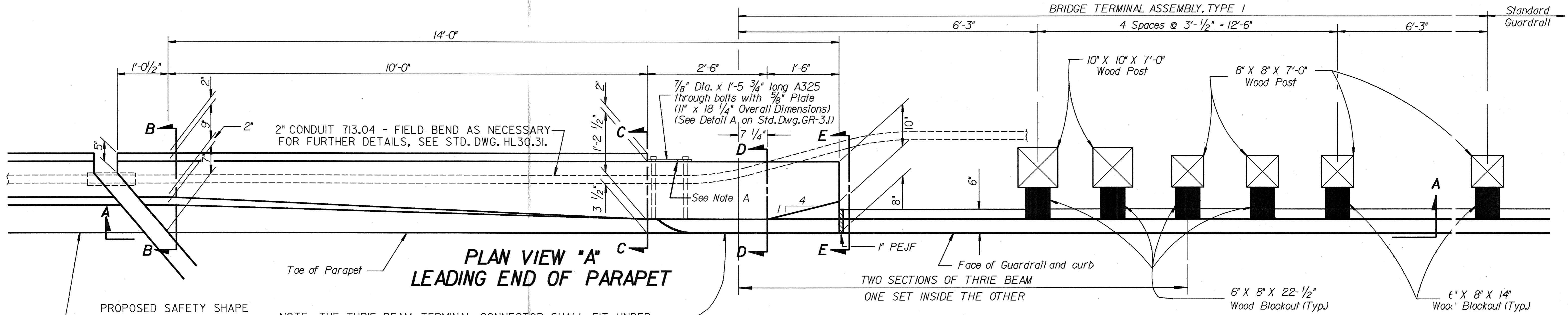
NOTE A: SEAL 5/8" PLATE ALL AROUND WITH HYPALON. INCLUDE WITH ITEM 606, BRIDGE TERMINAL ASSEMBLY, TYPE I FOR PAYMENT.

CALC BY
DATE
CHKD BY
DATE

ALLEN COUNTY
ALL-75-22/2

OHIO
FHWA REGION 5
136
137

BRIDGE TERMINAL ASSEMBLY, TYPE I

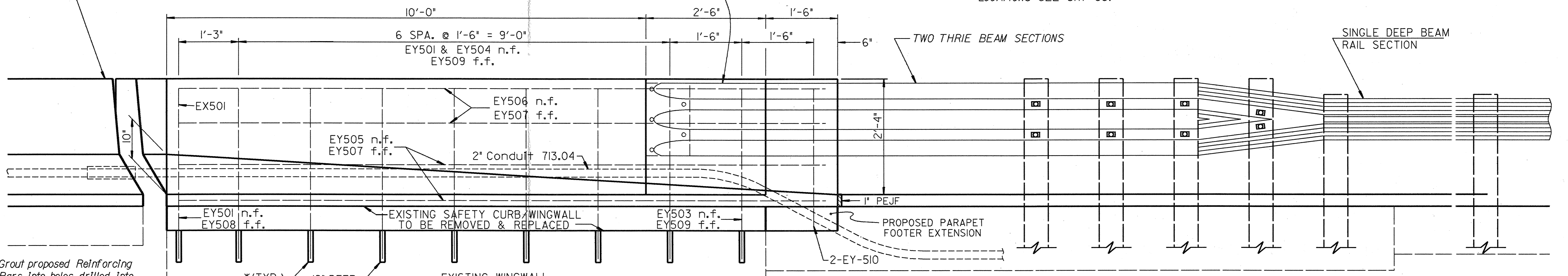


**PLAN VIEW "A"
LEADING END OF PARAPET**

PROPOSED SAFETY SHAPE PARAPET ON BRIDGE FOR DETAILS SEE SHT 131.

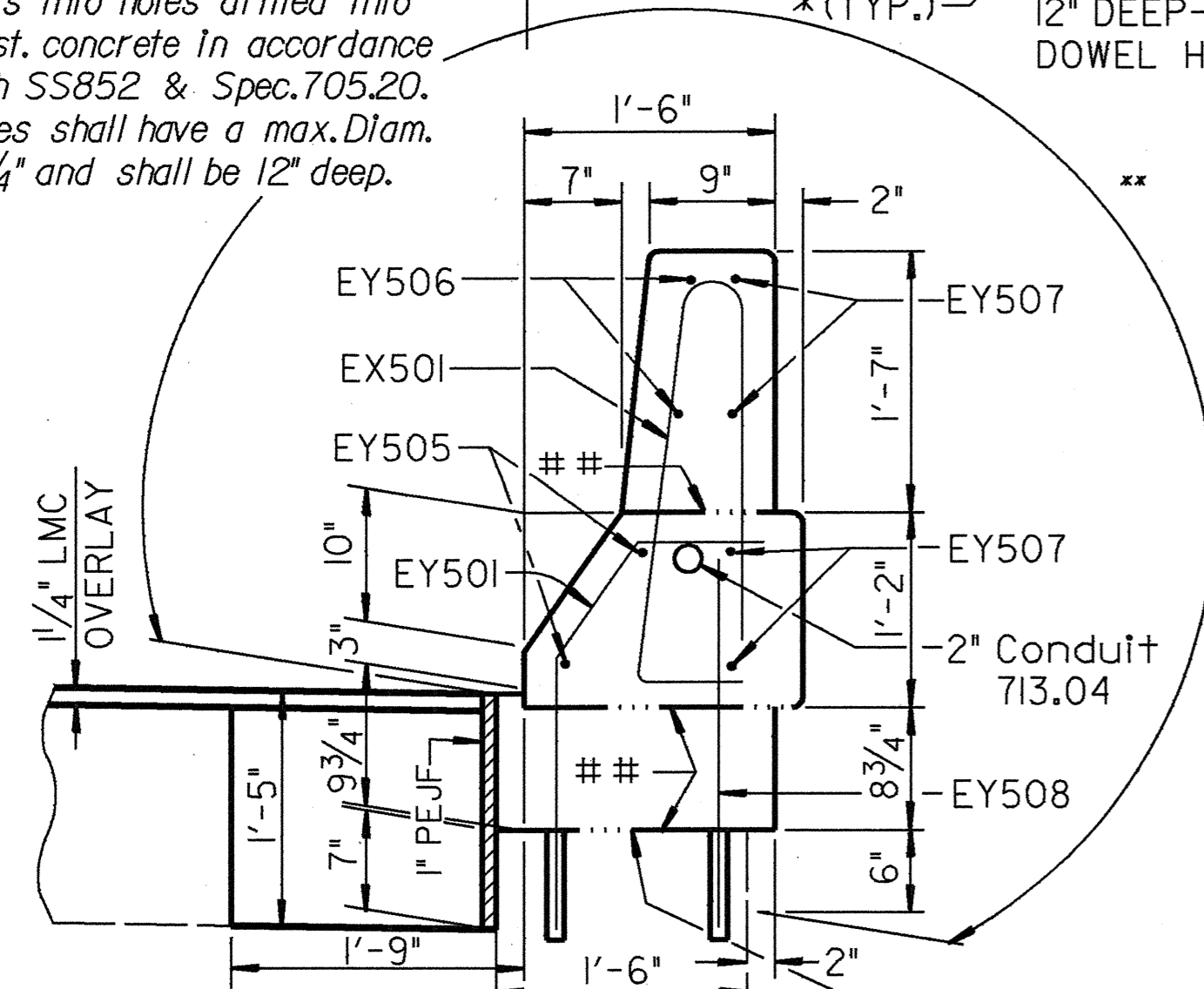
NOTE: THE THRIE BEAM TERMINAL CONNECTOR SHALL FIT UNDER THE STANDARD GUARDRAIL SECTION AT THE APPROACH END. ALL LAPS SHALL BE IN THE DIRECTION OF TRAFFIC

NOTE: FOR CURB AND GUARDRAIL LOCATIONS SEE SHT 33.

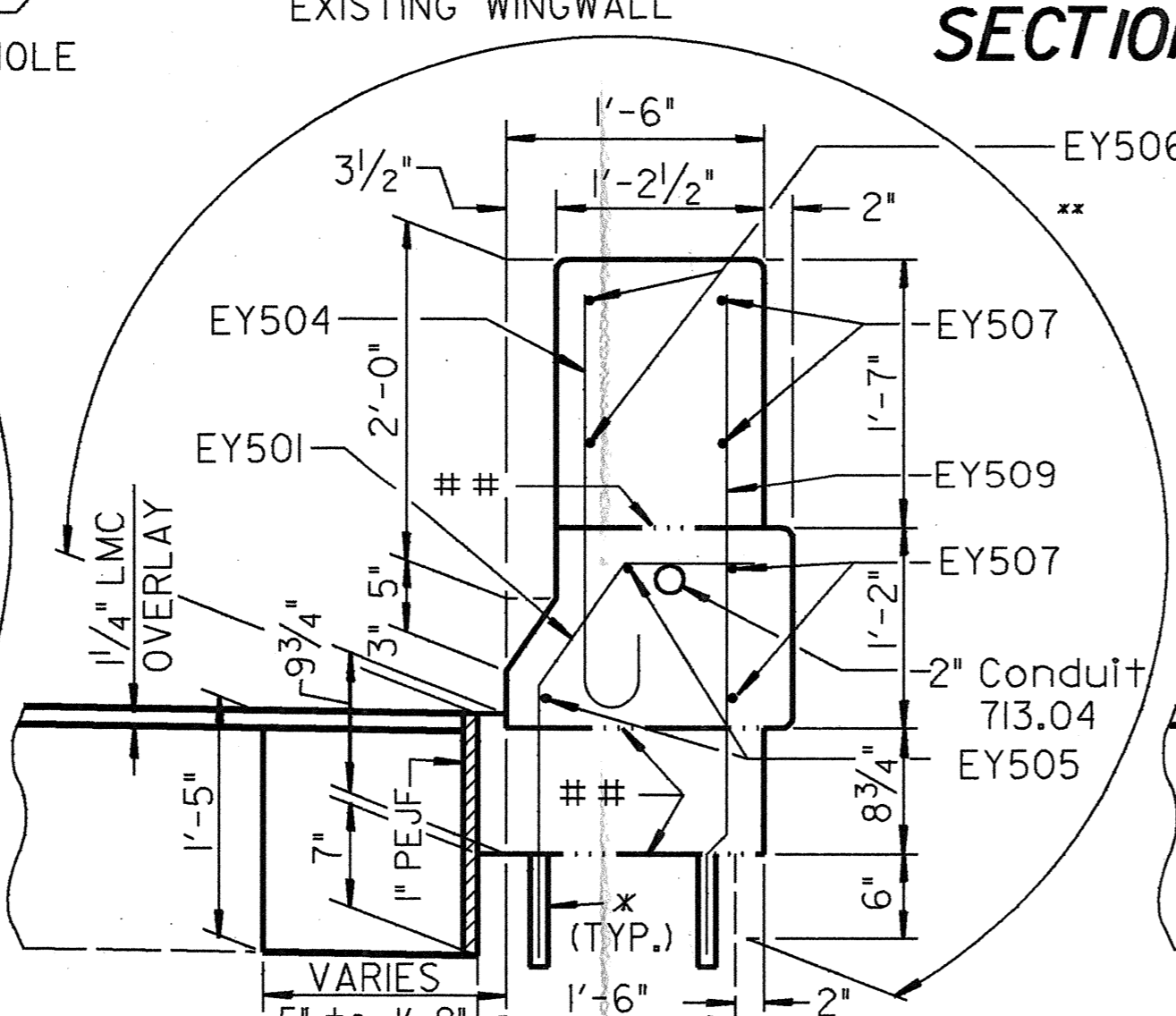


SECTION A-A

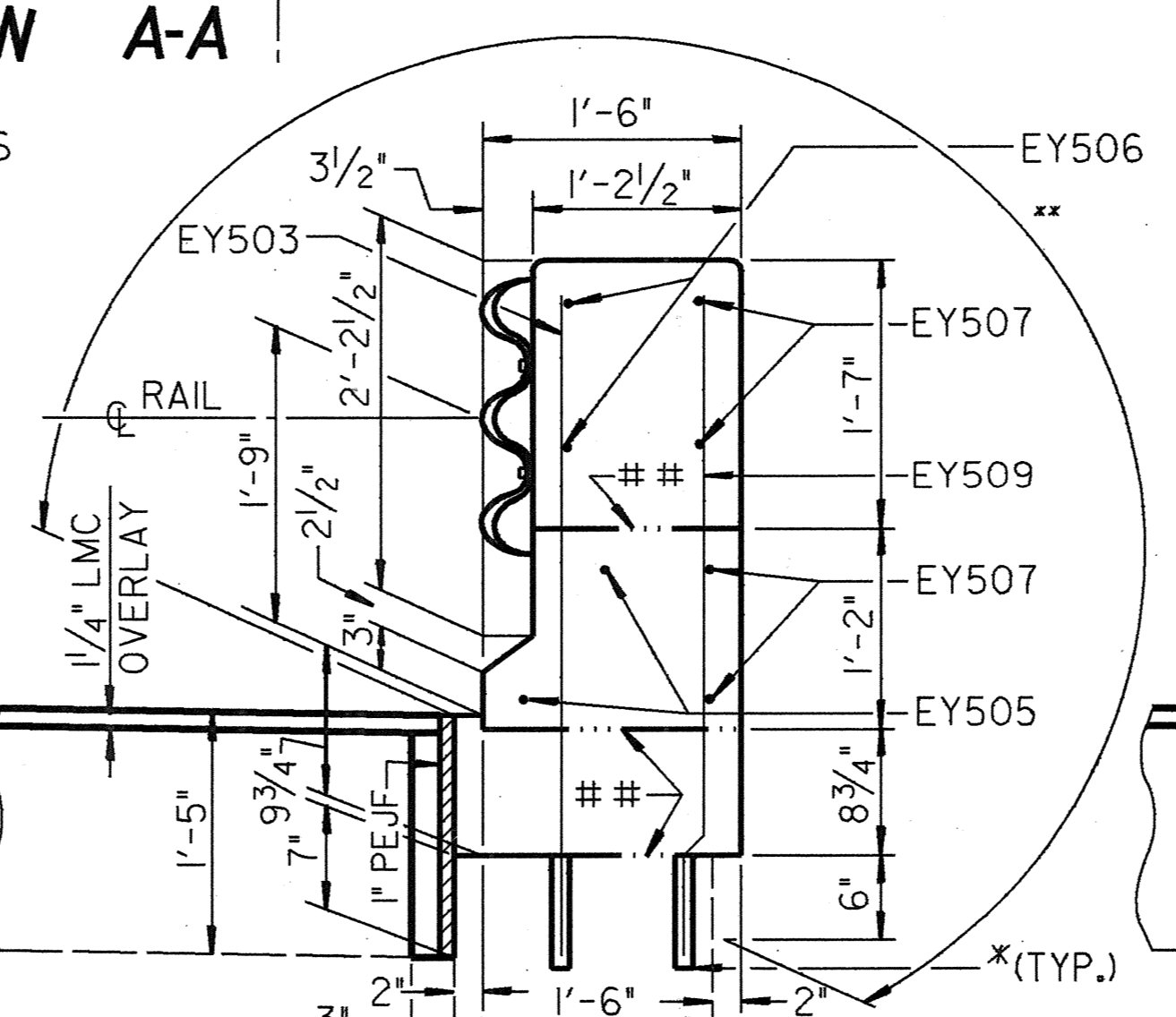
* Grout proposed Reinforcing Bars into holes drilled into exlst. concrete in accordance with SS852 & Spec.705.20. Holes shall have a max. diam. of 3/4" and shall be 12" deep.



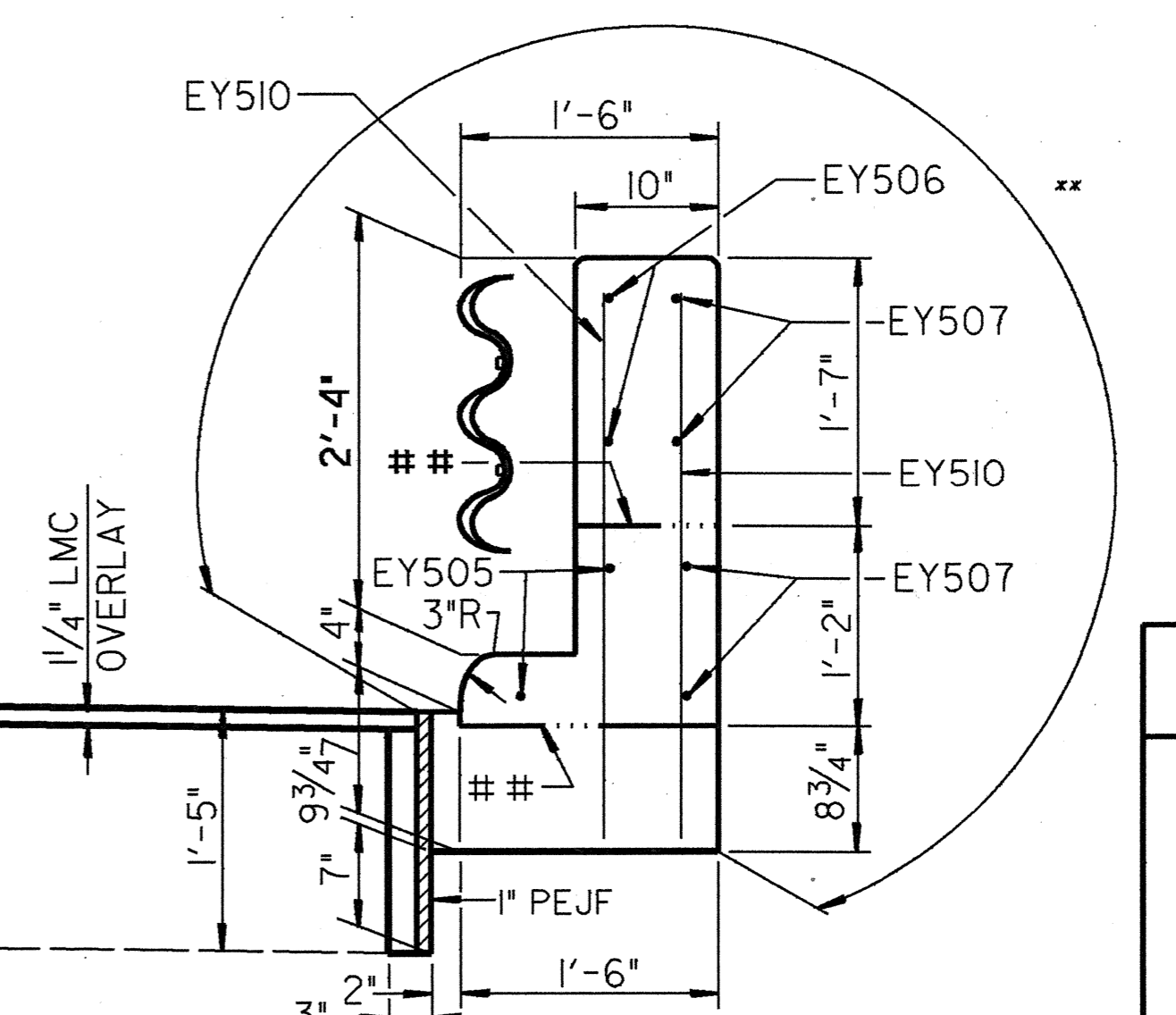
SECTION B-B



SECTION C-C



SECTION D-D



SECTION E-E

LEGEND

- n.f. ~ NEAR FACE
- f.f. ~ FAR FACE
- ** ~ CON'S R. JOINT
- ** ~ CONCRETE SURFACES TO BE SEALED (EPOXY)

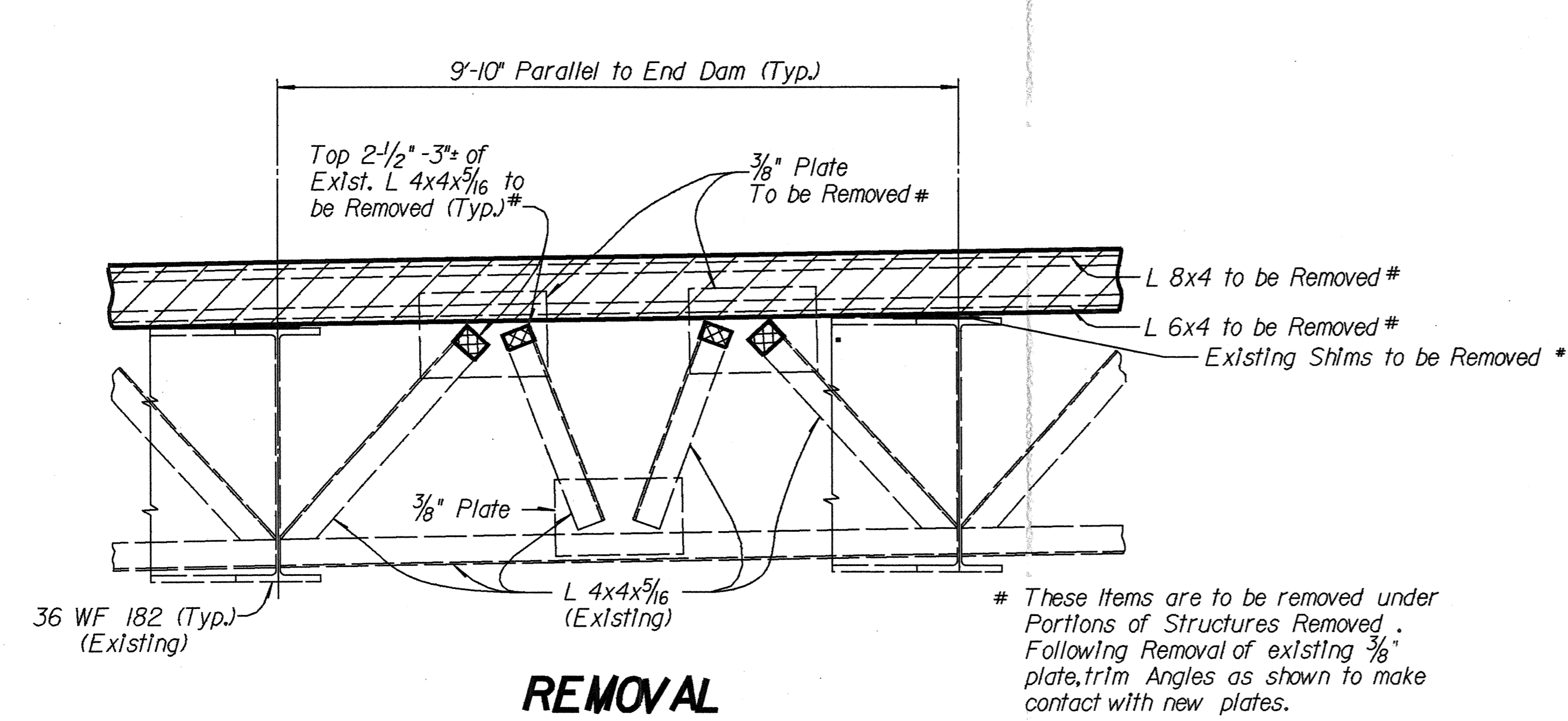
STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
DISTRICT ONE PLANNING AND DESIGN OFFICE

**NORTHWEST WINGWALL
PARAPET DETAILS**


BR. NO. ALL-103-0037
S.R.103 OVER NORFOLK SOUTHERN R.R.
SFN 0203572

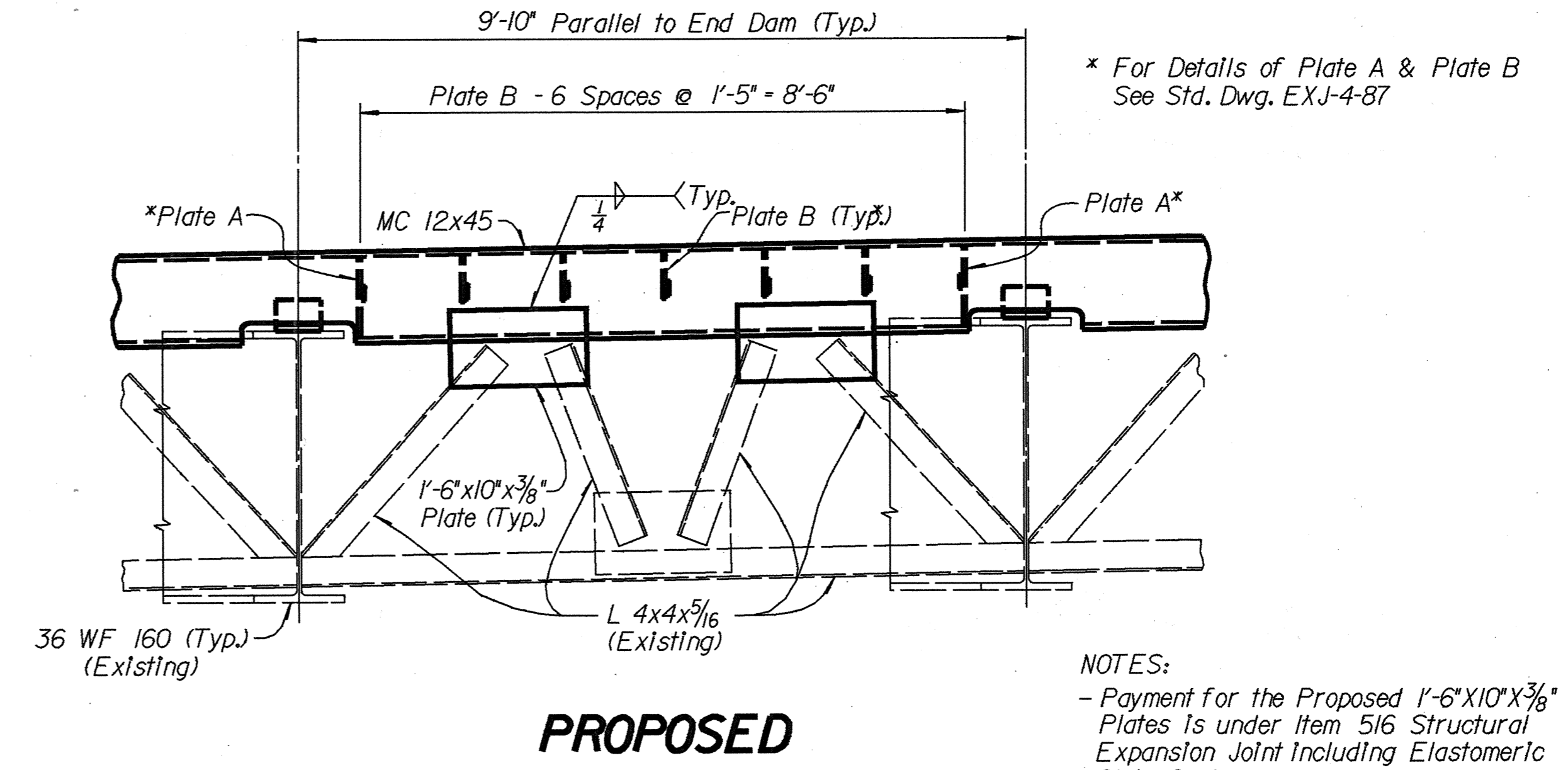
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RLS	RLS	RLS	JTC	AMK	1/20/93	

END CROSSFRAME DETAILS



These Items are to be removed under Portions of Structures Removed. Following Removal of existing 3/8" plate, trim Angles as shown to make contact with new plates.

 ~ Portions of Structure Removed



* For Details of Plate A & Plate B See Std. Dwg. EXJ-4-87

NOTES:

- Payment for the Proposed 1'-6" x 10" x 3/8" Plates is under Item 516 Structural Expansion Joint Including Elastomeric Strip Seal
- Refer to Std. Dwgs. EXJ-4-87 & SD-1-69 for additional Details.

DESIGN FILE : I:\dgn\bentley\defmisc.dgn
 USERNAME : nick
 DATE : 27-JAN-1993
 TIME : 13:44

STATE OF OHIO		15 / 15	
DEPARTMENT OF TRANSPORTATION			
DISTRICT ONE PLANNING AND DESIGN OFFICE			
MISCELLANEOUS DETAILS			
BRIDGE No. ALL-113-0030 OVER			
NORFOLK SOUTHERN RAILROAD			
SFN 0203572			
DESIGNED	DRAWN	TRACED	CHECKED
RLS	RLS	RLS	J.C.
REVIEWED	DATE	REVISED	
JMK	1/28/93		