

Inspection Report for B-03-017

USH 53 NB over AA Jun 08,2017



Туре	Prior	Frequency (mos)	Performed
Routine	06-25-15	24	X
Interim	10-12-12	0	
SIA Review	06-13-13	48	X

Latitude 45°15'26.29"N Longitude 91°36'40.98"W Owner STATE HIGHWAY DEPT
Maintainer STATE HIGHWAY DEPT

Time Log Team members

Hours Minutes Wjk
1 Wjk

Name		Number	Signature	Date
Inspector			William / Łovaleski	
Kovaleski, Willi	am J	8007	E-signed by Bill(dotwjk)	09-08-17

BRIDGE INSPECTION REPORT Wisconsin Department of Transportation DT2007 2003 s.84.17 Wis. Stats.

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Identification & Location

Feature On: USH 53 NB	Section Town Range: S16 T32N R10W	Structure Number:
Feature Under: AA	County: BARRON	B-03-017
Location 4.4M N JCT CTH M TO E	Municipality: DOVRE	Structure Name:

Geometry Traffic

measurements in feet, except w	here noted	
Approach Roadway Width: 40	Bridge Roadway Width: 40.0	Total Length: 151.5
Approach Pavement Width: 24	Deck Width: 43.0	Deck Area (sq ft): 6514

	Lanes	ADT	ADT year	Traffic Pattern
On	2	5550	2014	ONE WAY TRAFFIC
Under	2	270	2000	TWO WAY TRAFFIC

Capacity Load Rating

Inventory rating: HS26	Overburden depth (in): 0.0	Last rating date: 08-07-13	Controlling: INTERIOR DECK GIRDER Negative Moment
Operating rating: HS37		Re-rate for capacity (Y/N):	Control location: SPAN 1
Posting:	Re-rate notes:		

Hydraulic Classification

	Scour Critical Code(113):	Q100 (ft3/sec):	
	(N) NO WATERWAY	0	
ı	High water elevation (ft):	Velocity (ft/sec):	Sufficiency #:
	0.0	0.0	99.7

Span(s)

Span #	Material	Configuration	Depth (in)	Length (ft)	Main	
1	CONT PREST CONC	DECK GIRDER	45	40.0		
2	CONT PREST CONC	DECK GIRDER	45	67.0	Υ	
3	CONT PREST CONC	DECK GIRDER	45	40.0		

Expansion joint(s) Temperature: File: New:

Clearance

Item	File Measurement (ft)	File Date	New Measurement (ft)
Highway Min Vertical Under Cardinal	14.97	06-Jul-2015	
Highway Min Vertical Under Non-Cardinal			
Horizontal Under Cardinal	50.8		
Horizontal Under Non-Cardinal			
Highway Min Vertical On Cardinal			
Horizontal On Cardinal			

Construction History

Year	Work Performed	FOS id
1991	NEW DECK	1190-16-71
1972	NEW STRUCTURE	1196-06-76

Maintenance Items

Item	Priority	Recommended by	Status	Status change
Deck - Surface Repair Spalls	HIGH	Kurtz, William G (8008)	IDENTIFIED	07/02/15
Repair SPL in Wearing Surface (10SF).				
Approach - Repair Approaches	HIGH	Kurtz, William G (8008)	IDENTIFIED	07/02/15
Repair N & S APPR.				
Substructure - Other Work	MEDIUM	Kurtz, William G (8008)	IDENTIFIED	07/02/15
Seal columns.				
Substructure - Repair Abutment / Wings	MEDIUM	Kurtz, William G (8008)	IDENTIFIED	07/02/15
Repair SPL on ABUTs (3SF).				
Misc - Wash Bridge	LOW	Kurtz, William G (8008)	IDENTIFIED	07/02/15
Power wash structure to remove swallow nests.				

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Elements

							Quantity in Co		
ık	Element	Defect	Description Reinforced Concrete Deck-Coated Reinforcing	UOM SF	Total 6,515	6,391	124	<u>3</u>	0
(12		Remorced Concrete Deck-Coated Remorcing	Oi	0,313	0,391	124	0	
			Cracking (RC)	SF		0	124	0	0
		1130	See 2015 notes.						1
			Wearing Surface (Bare)	SF	6,515	6,375	130	10	0
	8000		Scaled shoulder east side						
			Debonding/Spall/Patched Area/Pothole	SF		0	65	10	0
		3210	S JT SPL CS3 10SF. DELAM CS2 65SF.						
			Crack (Wearing Surface)	SF		6,375	65	0	0
		3220	CRK CS2 65ŠF.						
_	100		Prestressed Concrete Open Girder	LF	606	606	0	0	0
Κ	109								
X	205		Reinforced Concrete Column	EA	6	6	0	0	0
`	200								
			Reinforced Concrete Abutment	LF	98	90	5	3	0
X	215		Discoloration but no cracks. S abut. wet with flowing Wet S abut; Dry N abut 2013. S ABUT WET.	ng wate	r. Settleme	nt 18" S al	out. Crack a	it SE wing	dry 20
			Delamination - Spall - Patched Area	LF		0	1	3	0
		1080	S ABUT W SPL CS3 1LF G2 SPL CS2 1LF E S N ABUT G2 SPL CS3 1LF.	SPL CS3	3 1LF.				
			Cracking (RC)	LF		0	4	0	0
		1130	S ABUT C/L BAY2 CRK CS2 1LF. N ABUT G1 CRK CS2 1LF G2 CRK CS2 1LF G3	R CRK C	92 11 F				
			·	, 0, 1, 1	.02 ILI .				
			Reinforced Concrete Cap	LF	91	91	0	0	0
X	234		Reinforced Concrete Cap			91	0	0	0
			Reinforced Concrete Cap Strip Seal Expansion Joint			91	0	0	0
	300			LF	91	-		-	
<	300		Strip Seal Expansion Joint Moveable Bearing	LF	91	-		-	
<			Strip Seal Expansion Joint	LF LF	91	52	0	0	0
<	300		Strip Seal Expansion Joint Moveable Bearing Exterior bearings have some rust. Corrosion	LF LF	91	52	0	0	0
X	300	1000	Strip Seal Expansion Joint Moveable Bearing Exterior bearings have some rust.	LF LF EA	91	52	0 4	0	0
x x x	300	1000	Strip Seal Expansion Joint Moveable Bearing Exterior bearings have some rust. Corrosion	LF LF EA	91	52	0 4	0	0
x x	300	1000	Strip Seal Expansion Joint Moveable Bearing Exterior bearings have some rust. Corrosion N abutment med rust.	LF LF EA	91 52 12	52 8 8	4	0 0	0
X X	300	1000	Strip Seal Expansion Joint Moveable Bearing Exterior bearings have some rust. Corrosion N abutment med rust. Reinforced Concrete Bridge Rail Cracking (RC)	LF LF EA	91 52 12	52 8 8	4	0 0	0
X X	300	1000	Strip Seal Expansion Joint Moveable Bearing Exterior bearings have some rust. Corrosion N abutment med rust. Reinforced Concrete Bridge Rail	LF EA LF	91 52 12	52 8 8 296	4 45	0 0 0	0
x x x	300 311 331		Strip Seal Expansion Joint Moveable Bearing Exterior bearings have some rust. Corrosion N abutment med rust. Reinforced Concrete Bridge Rail Cracking (RC) 6/25/2015 W RAIL CRK CS2 15LF.	LF EA LF	91 52 12	52 8 8 296	4 45	0 0 0	0
x x x x	300		Strip Seal Expansion Joint Moveable Bearing Exterior bearings have some rust. Corrosion N abutment med rust. Reinforced Concrete Bridge Rail Cracking (RC) 6/25/2015 W RAIL CRK CS2 15LF. 6/25/2015 E RAIL CRK CS2 30LF. Integral Wingwall	LF EA LF	91 52 12 341	52 8 8 296	4 45 45	0 0 0	0 0
x x x	300 311 331		Strip Seal Expansion Joint Moveable Bearing Exterior bearings have some rust. Corrosion N abutment med rust. Reinforced Concrete Bridge Rail Cracking (RC) 6/25/2015 W RAIL CRK CS2 15LF. 6/25/2015 E RAIL CRK CS2 30LF.	LF EA LF	91 52 12 341	52 8 8 296	4 45 45	0 0 0	

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Assessments

							Quantity in C	ondition State			
Chk	Element	Defect	Description	UOM	Total	1	2	3	4		
			Drainage - Approach	EA	4	4	0	0	0		
X	9001										
			Signs - Object Markers	EA	2	2	0	0	0		
X	9030										
			Slope Protection- Crushed Aggregate with Bit.	EA	2	2	0	0	0		
X	X 9043		6/25/2015 GOOD CONDITION.								
			Concrete Diaphragm	EA	15	14	1	0	0		
X	9168		Diaphragm over P2 N side Bay 1-2 spall corner								
			Approach Roadway - Concrete (non-structural)	EA	2	0	2	0	0		
X	9322		Some cracking and settlement filled w asphalt.								

NBI Ratings

	File	New
Deck	7	7
Superstructure	7	7
Substructure	7	7
Culvert	N	N
Channel	N	N
Waterway	N	N

Structure Specific Notes

OLD: Overall, condition of stucture is VG. North abutment bearings require cleaning/painting. (99) Spalling on inside shoulder,

southhalf of deck. structure is in very good overall condition.

(01) Structure is in very good condition. Deck has extensive surface cracks and should be sealed. Joints at Approach slabs should be sealed with flowable joint sealer. There is a washout behind NE wingwall that needs to be repaired.

Inspection Specific Notes

OLD: CTH AA under has new asplatic surface resulting in a new clearance measurement October 12" 2012.

Inspector Site-Specific Safety Considerations

Structure Inspection Procedures

Walk-thru

Special Requirements

Cost Comments Hours

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Routine Document Comment/Description Pier 2 - deck cracking



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Routine
Document Comment/Description
North approach and joint.



STRUCTURE INVENTORY AND APPRAISAL FIELD REVIEW FORM

B-03-017 USH 53 NB over AA

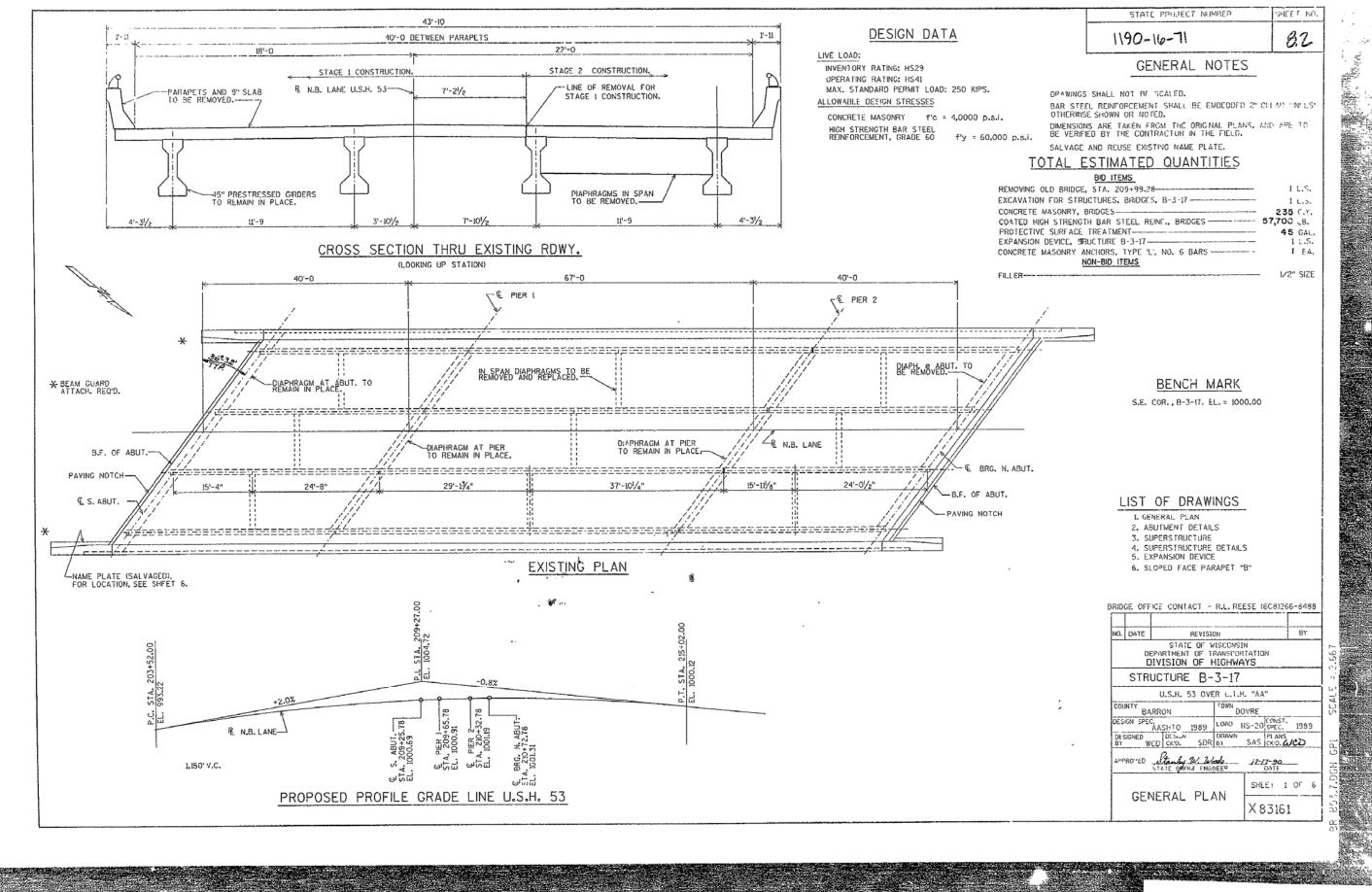
LOCATION (3) Municipality: DOVRE (16) Latitiude(° ' "): 45°15'26.29"N (17) Longitude(° ' "): 91°36'40.98"W TRAFFIC SERVICE (28A) Lanes On: 2 (28B) Lanes Under: (102) Traffic Pattern On: -NO TRAFFIC X-ONE WAY TRAFFIC -TWO WAY TRAFFIC (102) Traffic Pattern Under: -NO TRAFFIC -ONE WAY TRAFFIC X-TWO WAY TRAFFIC (19) Detour Length(mi): **GEOMETRY** (49) Structure Length(ft): 151.5 (50) Sidewalk Width(ft): Left: 0.0 Right: 0.0 (50) Curb Width(ft): 3.0 (52) Culvert Barrel Length(ft): (34) Skew: Angle(°): 37 Direction: -RIGHT FORWARD X-LEFT FORWARD Cardinal Non-Cardinal (51) Bridge Roadway Width(ft): 40.0 40.0 (52) Deck Width(ft): 43.0 43.0 Right Wingwall Length(ft): Left Wingwall Length(ft): (32) Approach Roadway Width(ft): 40 n Cardinal Under Clearance Non-Cardinal Under Clearance (47) Minimum Horizontal(ft): 50.8 (55) Minimum Right Lateral(ft): 14.4 (56) Minimum Left Lateral(ft): 14.4 RAILING APPRAISAL (36A) Bridge Rail Adequacy: -SUB-STANDARD X-STANDARD -NOT APPLICABLE -SUB-STANDARD X-STANDARD -NOT APPLICABLE (36B) Transition Adequacy: -SUB-STANDARD X-STANDARD -NOT APPLICABLE (36C) Approach Guardrail Adequacy: (36D) Guardrail Termination Adequacy: -SUB-STANDARD X-STANDARD -NOT APPLICABLE Right Type
TYPE F (TWO SQUARE TUBES) - STEEL(8)
TYPE F (TWO SQUARE TUBES) - STEEL(8) **Outer Rail:** Left TYPE F (3 SQUARE TUBES) - STEEL(65) TYPE F (4 SQUARE TUBES) - STEEL(72) TYPE M-STEEL 3 SQUARE TUBES(93) SLOPED FACE PARAPET LF(91) SLOPED FACE PARAPET HF(92) VERTICAL FACE PARAPET TYPE A(74) TYPE W-THRIE BEAM(79) TYPE H ON VERTICAL PARAPET(80) TIMBER(38) X Χ OTHER(99) (Please specify) Left: NJ SLOPING PARAPET(61) Right: NJ SLOPING PARAPET(61) CONT GUARD RAIL **Transition Type:** NO APP GRDRL NO ATTACHMENT 22 MM(7/8") BOLT (Please enter quantity) 5 25 MM(1") BOLT (Please enter quantity) OTHER (Please specify) **Approach Attachment Rail Note: Guardrail Termination Type:** (01) ENERGY ABSORBING TERMINAL/EAT (02) TURN DOWN (99) OTHER (Please specify) **Guardrail Termination Note:**

ROADWAY ALIGNMENT APPRAISAL

3 Intolerable- Substantial speed reduction

6 Fair- Minor speed reduction 8 Good- No speed reduction

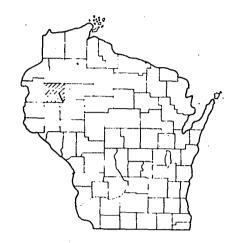
(72) Approach Alignment Appraisal:



Index of Sheets

Sheet No. Sheet No. 2-2.10 Typical Cross Sections Sheet No. 3-3.2 Estimate of Quantities Sheet No. 3A-3I Miscellaneous Quantities Sheet No. 4-4.6 Right of Way Plat

Sheet No. 5-26 Plan and Profile Sta.0 + 18,72 to Sta. Sheet No.27 -27.15 Standard Details Sheet No. 28-107 Drainage Structures Sheet No. 108-296 Cross Sections



Design Designation

CONTROL OF ACCESS = FULL A. D. T. 1980 * 5300 A. D. T. 2000 D. H. V. = 1260 ³ 50−50 TRUCKS - IL3% ADT ≈ 80 M.P.H.

Conventional Sians

• • • • • • • • • • • • • • • • • • • •	an organi
tate Line	Culverts in Place
County Line	Culverts Required
ownship or Range Line	Drop Inlet
ection Line	Power Pole
lew Right of Way Line	Telephone or Telegraph Pole
Present Right of Way Line	Right of Way Markers
Woven	Right of Way Markers
Wire Fence \{ Woven \cdots \cdo	Marsh
ot Line	Hedge
corporate or City Limits	Hedge
Property Line	اه
raveled Way or P.E.	Ground Elevation Datum Line
ailroads · · · · · · · · · · · · · · · · · · ·	. IX
tace or Survey line	Grade Flevation Dotum Line

STATE OF WISCONSIN

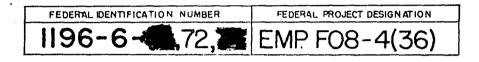
DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

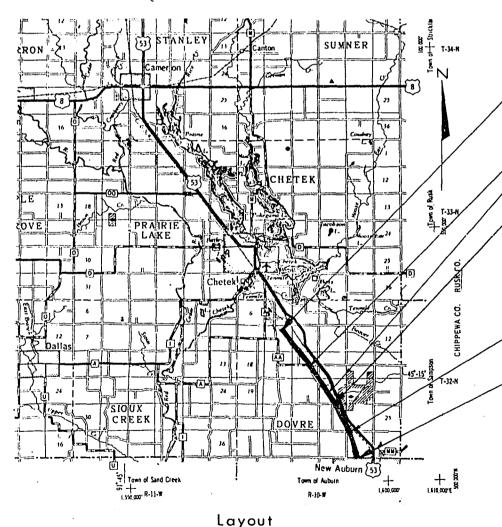
PLAN AND PROFILE OF PROPOSED NEW AUBURN - U.S.H. 8 ROAD

U.S.H. 53

BARRON COUNTY



Profile Hor. Lin.: 100 ft. Vert. Lin.: 10 ft. Cross Sections Hor. Lin.: 10 FT, Vert. Lin.: 10 FT,



Net Length of Centerline = 2.278 Mi. Contract 1

= 3.211- " = 5.489

END PROJECT 1196-6-76 / EMP. FO8-4(36)

STA. 290+00 N.B. R. * N = 40,942.678 * E = 2,066,583.314 APPROX.1200' S. Br.1430' W. OF N.E. COR., SEC.8, T-32-N, R-10-W

8-3-16 AND B-3-17 PROJECT 1196-6-72

END PROJECT 1196-6-71 (CONTRACT 1) BEGIN PROJECT 1196-6-76 (CONTRACT 3)

STA. 120 + 50 N.B. R.

* N = 26, 859.460

*E = 2,075,115.519 APPROX 400'S. B.3175 W. OF THE SW. 4 SEC. 27 T 33 N, R 10 W

B-3-14 AND B-3-15 PROJECT 1196-6-72

BEGIN PROJECT 1196-6-71 / EMP. FO8-4(36)

STA. 0 + 18.72 N.B. R. * N= 20,432.168 * E= 2,079,997.887

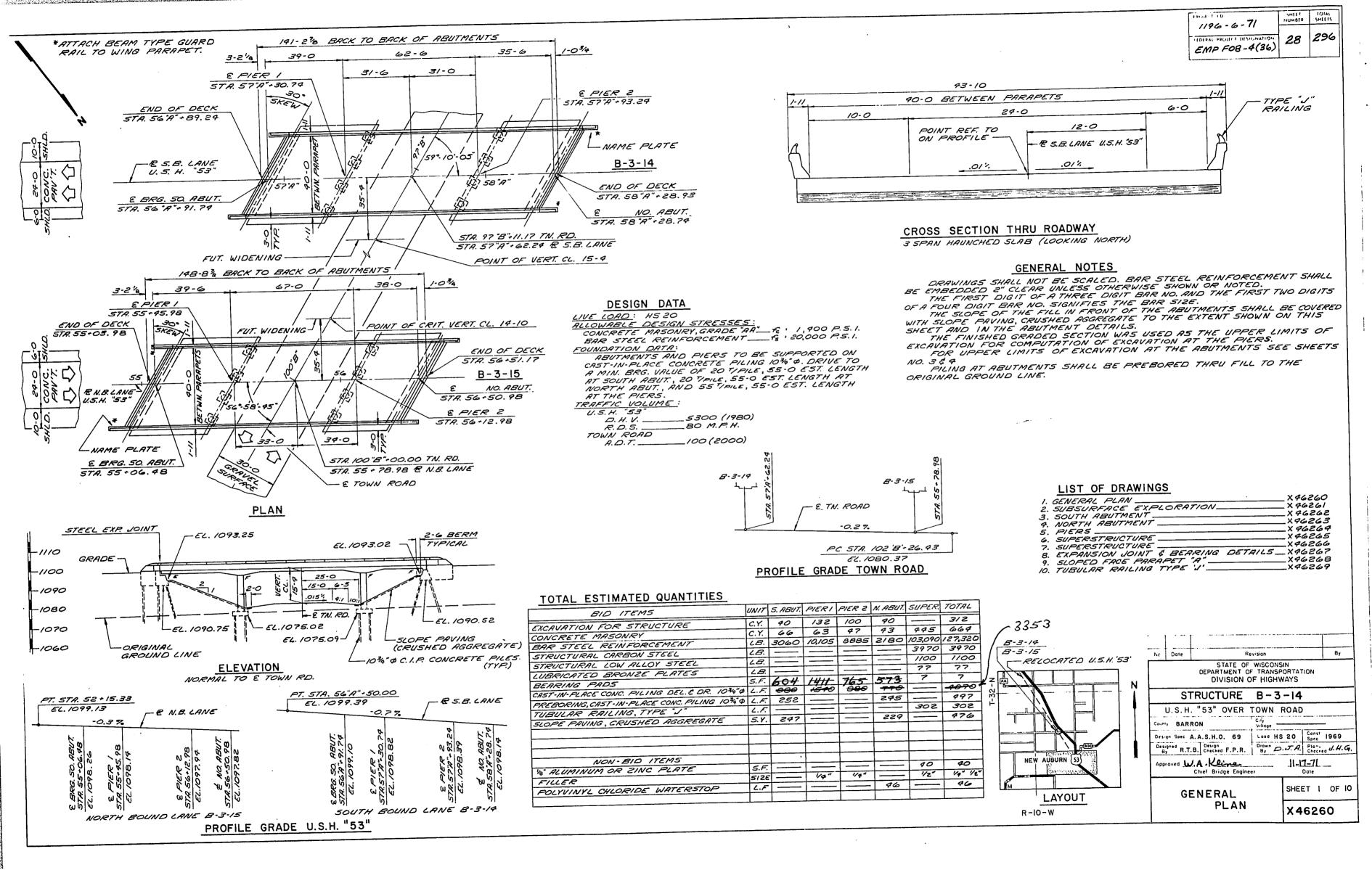
428.12' W. OF THE S. 1/4 COR., SEC. 35, T 32 N . R IO W

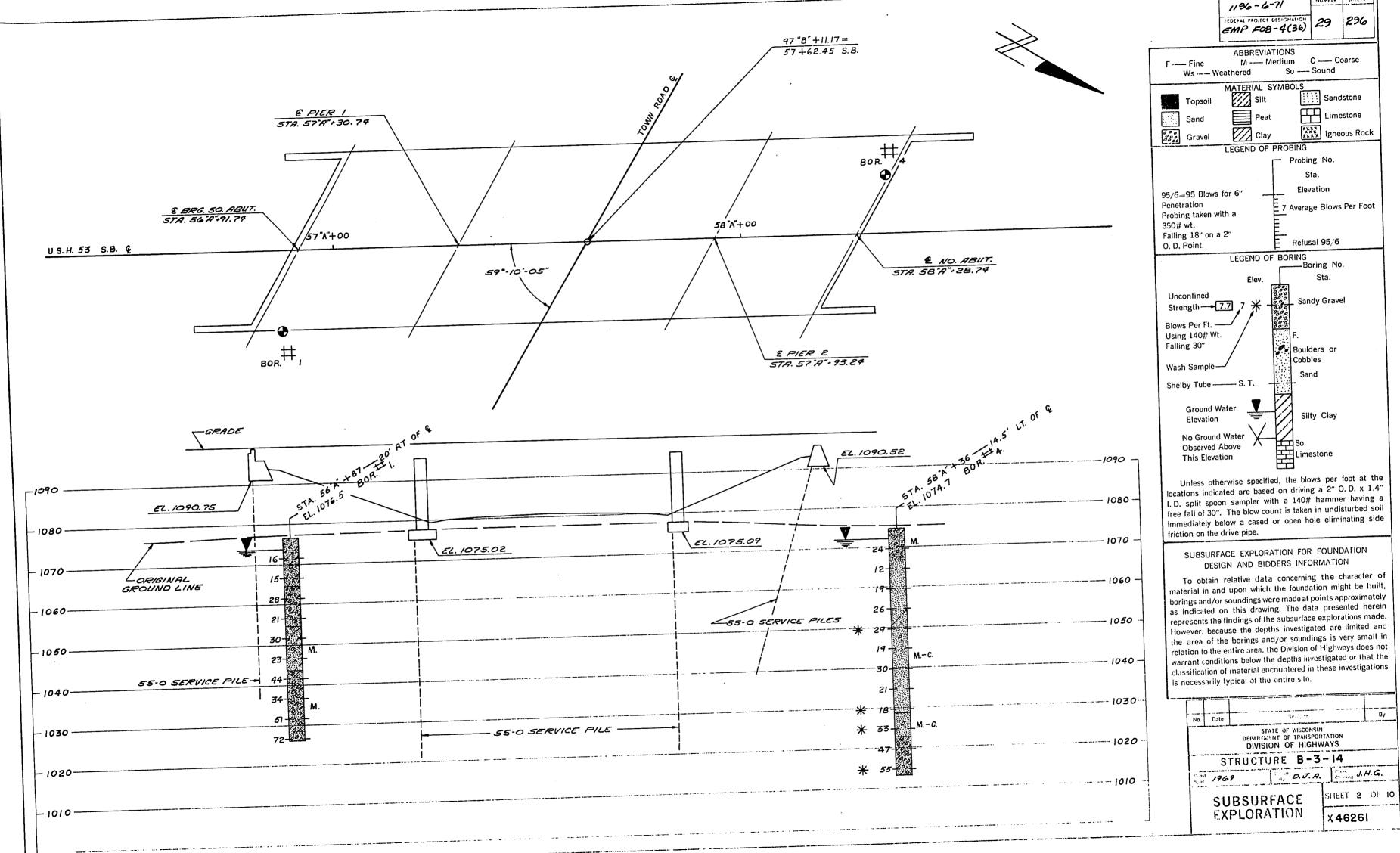
> CONTROL OF ACCESS WITHIN THE LIMITS OF THE PROJECT WHERE CONTROL OF ACCESS IS SHOWN THUS, TTTTTT NO ACCESS IS PERMITTED TO U.S.H. 53 TRAFFIC LANES EXCEPT BY RAMPS AT INTERCHANGES.

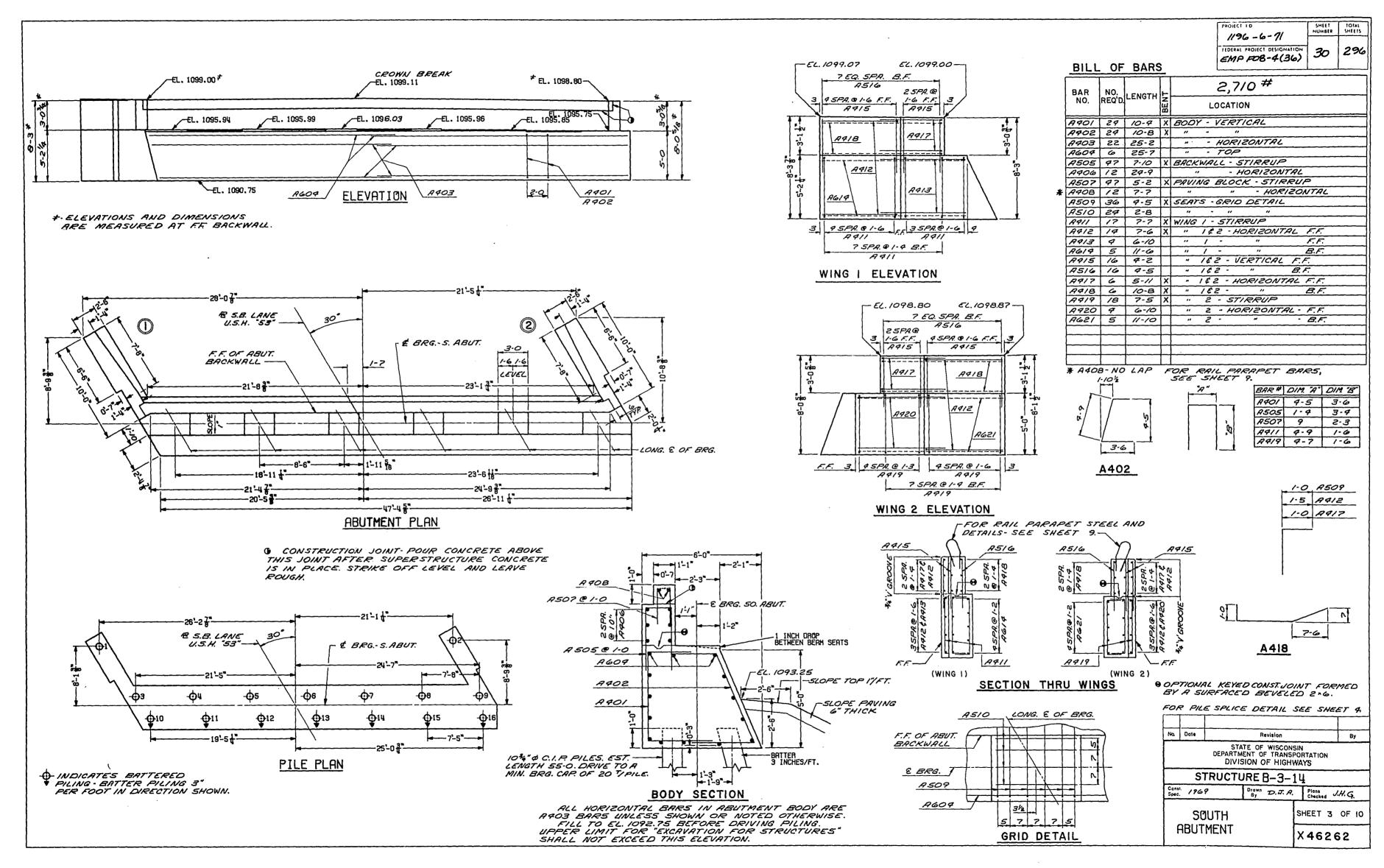
* CENTRAL ZONE COORDINATES

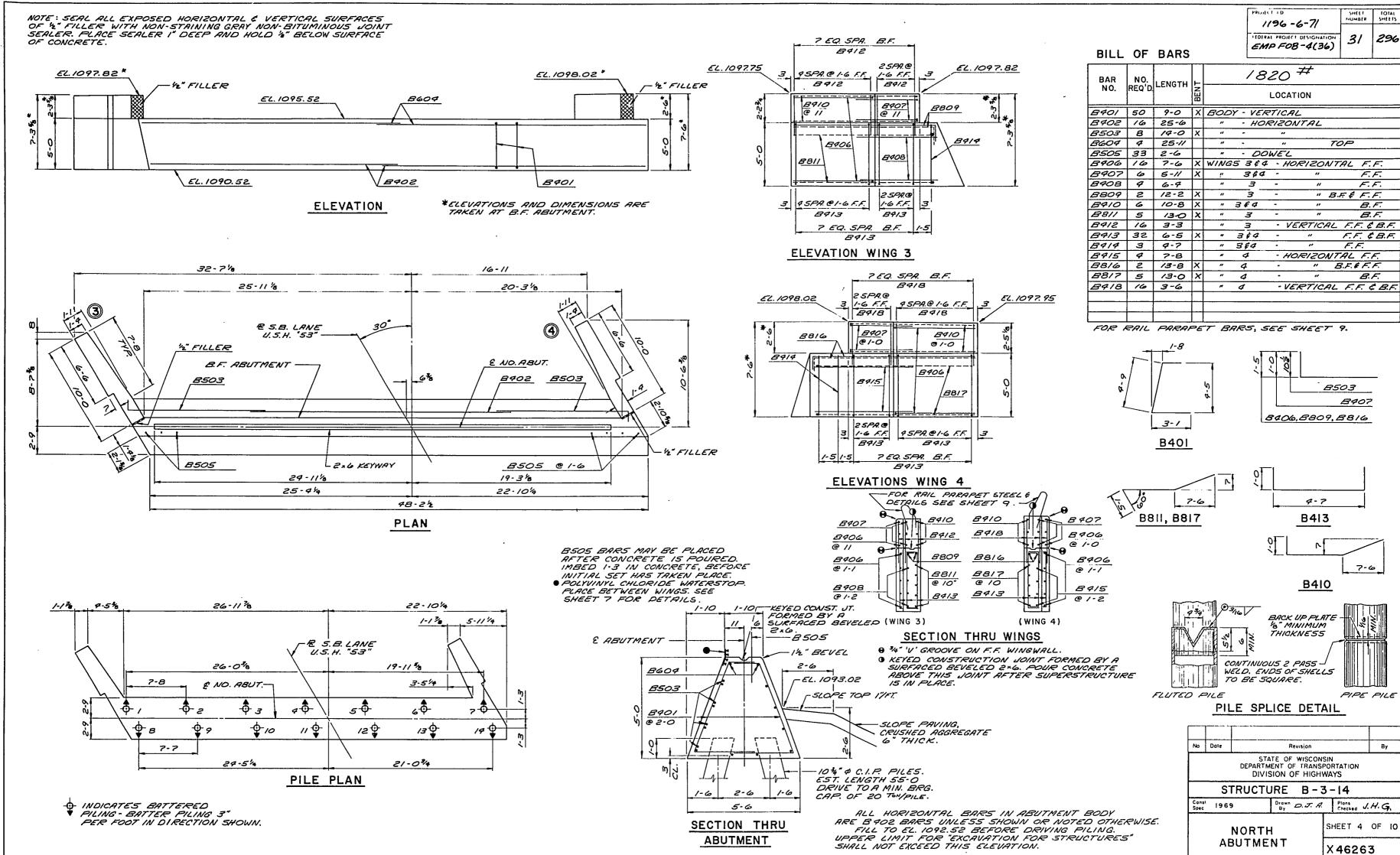
DEPARTMENT OF TRANSPORTATION

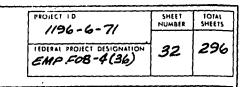
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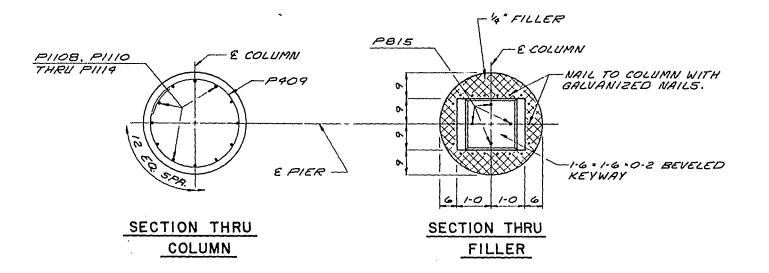


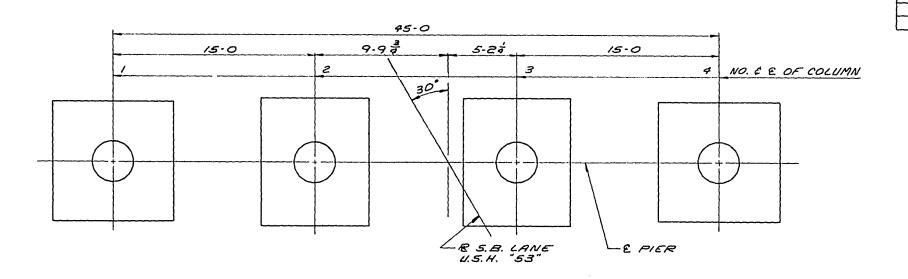




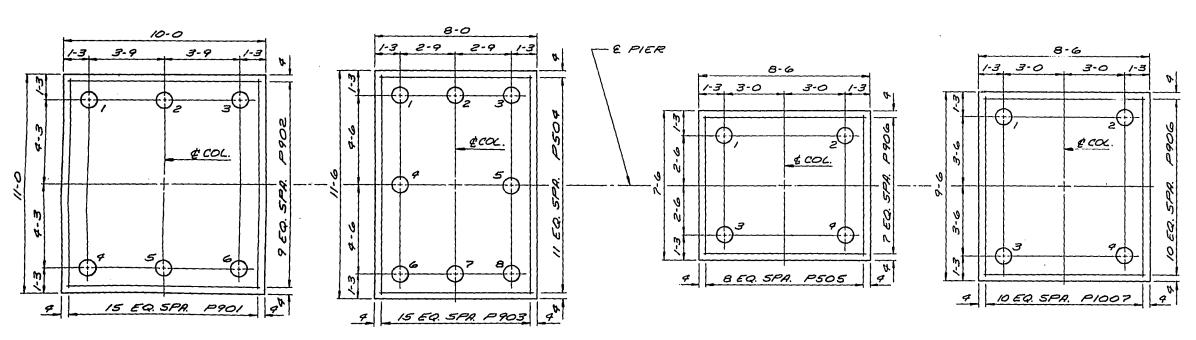








PIER PLAN



EXTERIOR FOOTING

TYPICAL FOOTING PLAN - PIER I

-EL. "A"

P815

3-0

PIIIO THRU

P1114

E COLUMN

P1108

PIER 1 EL. 1075.02 PIER 2 EL. 1075.09

104" C.I.P. PILING. DRIVE TO A MIN. BRG CAP OF 55 TOWS/PILE. EST. LENGTH 55-0-

TYPICAL COLUMN ELEVATION

P902, P504

P906 P901, P903 P505, P1007 P409

TOP OF COLUMN CONCRETE

INTERIOR FOOTING

EXTERIOR FOOTING

INTERIOR FOOTING

TYPICAL FOOTING PLAN - PIER 2

18,990# NO LENGTH LOCATION P901 32 10-6 EXTERIOR FOOTINGS - PIER 1 P902 20 9-6 P903 32 11-0 INTERIOR P504 29 7-6 PSOS 18 7-0 EXTERIOR P906 38 8-0 EXT. & INT. P1007 22 9-0 INTERIOR PIIOB 96 7-6 X FOOTING & COLUMN - DOWELS P409 152 9-5 X COLUMN - TIES PIIIO 24 17-9 PIER I, COL. I & PIER 2, COL. 3 · VERT. P1111 29 17-6 " 1, " 2 € " 2, " 2 6 " 2, " 4 -P1112 24 17-3 P1113 12 17-7 1, " 3 - VERTICAL P1114 12 17-1 " 2, " 1 -PBIS 32 2-0 | COLUMN & SLAB - DOWELS



BILL OF BARS

P1108

P409

ELEVATION AND COLUMN LENGTH

ELEV. "A" LENGTH "L" COLUMN 1 1095.52 17-6 " 2 1095.71 17-84 " 3 1095.80 17-948 " 4 1095.72 17-848 " 1 1095.09 17-3 R " 2 1095.27 17-548 " 3 1095.28 17-644 " 4 1095.28 17-544				-	
U " 2 1095.71 17-84 U " 3 1095.80 17-96 U " 4 1095.72 17-86 U " 1 1095.09 17-3 U " 2 1095.27 17-56 U " 3 1095.36 17-64				ELEV. "A"	LENGTH "L"
" 3 1095.80 17-9% " 4 1095.72 17-8% " 1 1095.09 17-3 " 2 1095.27 17-5% " 3 1096.36 17-6%	$\overline{}$	COLUMN	1	1095.52	17-6
0 " 1 1095.72 17-8% 0 " 1 1095.09 17-3 0 " 2 1095.27 17-5% 1 3 1096.36 17-6%	Ç	"	г	1095.71	17-84
\(\begin{array}{cccccccccccccccccccccccccccccccccccc	76.	"	3	1095.80	17-9%
W " 2 1095.27 17-5% W " 3 1095.36 17-6%	Ų	"	9	1095.72	17-8%
" 3 1095.36 17-64	N	"	1	1095.09	17-3
3 7078.36 7776.4	Ł		2	1095.27	17-5%
" 4 1095.28 17-514	16	"	3	1095.36	17-64
	ય	"	4	1095.28	17-514

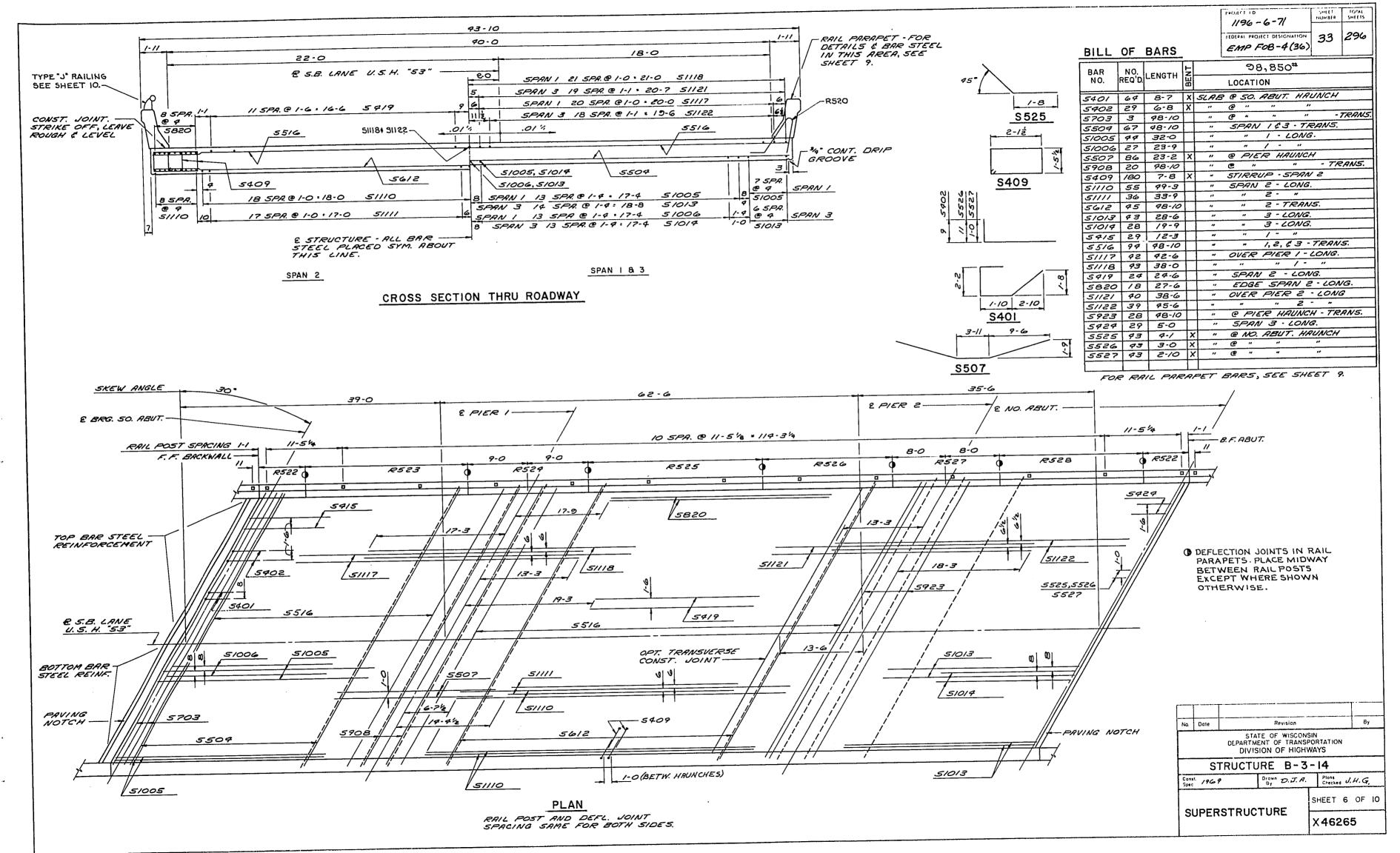
TOP OF COLUMN ELEVATIONS (EL. "A") AND COLUMN LENGTH "L"
ARE MEASURED AT E PIER AND E COLUMN.
SLOPE TOP OF COLUMN TO MATCH SLOPE OF SUPERSTRUCTURE.

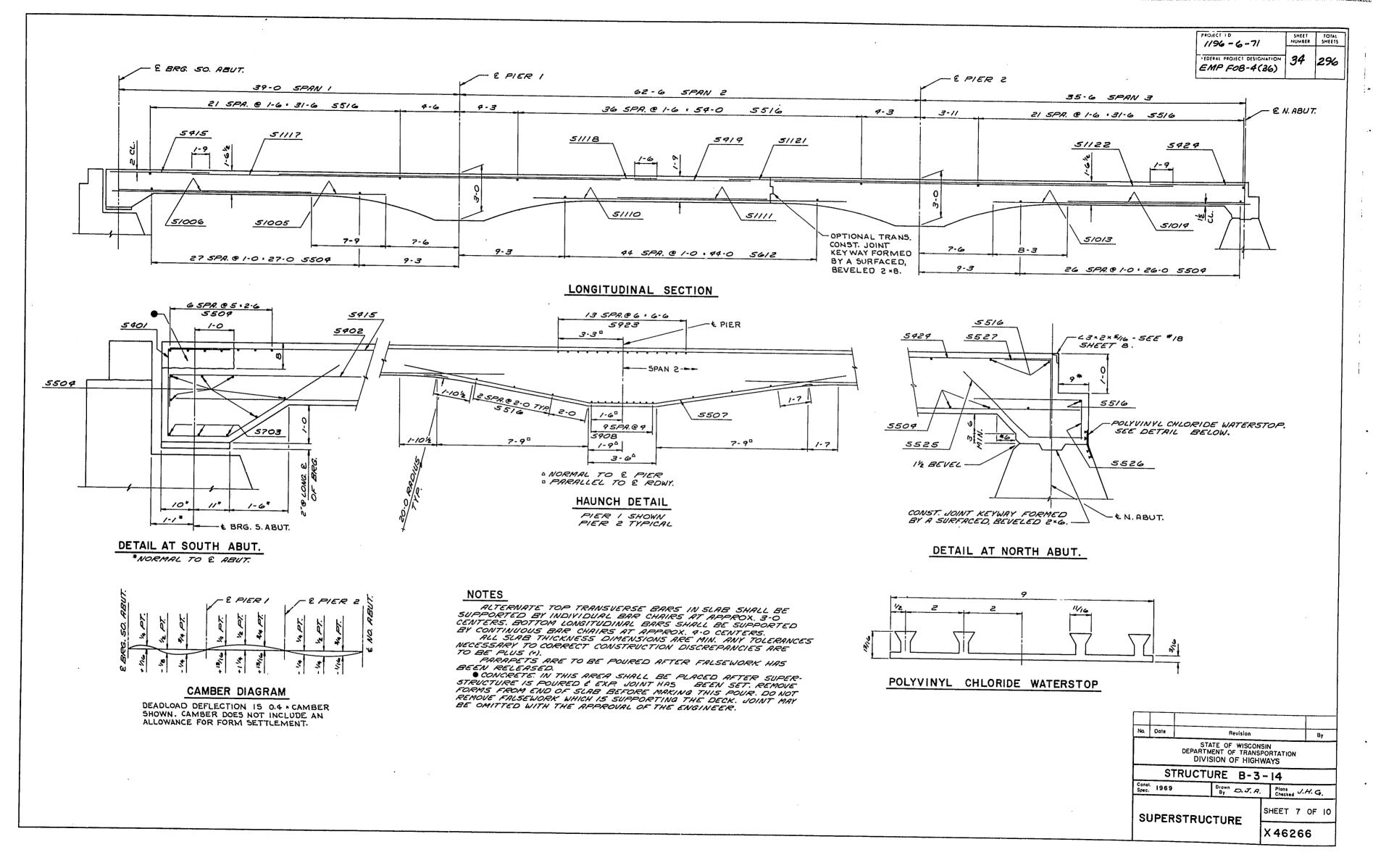
Q CONSTRUCTION JOINT KEY FORMED BY A SURFACED

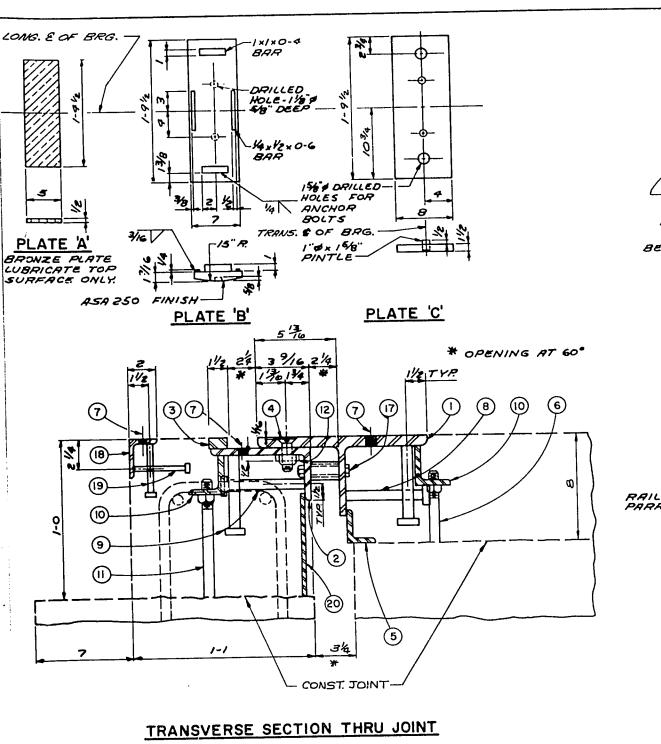
BEVELED 1-6 . 1-6 . 0-2. PBIS BARS MAY BE PLACED AFTER COLUMN CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE.

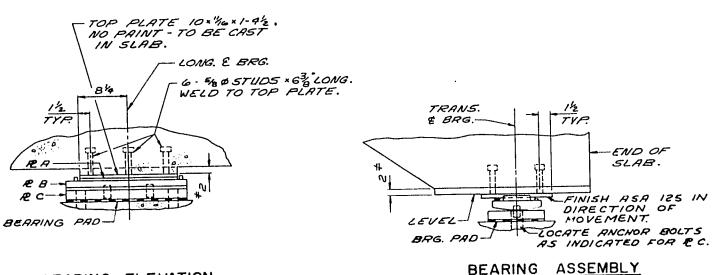
FOR PILE SPLICE DETAIL SEE SHEET 4

	[·			
Na	Date		Revision		Ву			
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS							
	S	TRUCTU	JRE B-3	3-14				
Cons Spec		9	Drawn D. J. A	Plans J.	H.G.			
		PIERS		SHEET 5	OF 10			
		1 12113		X 4626	4			



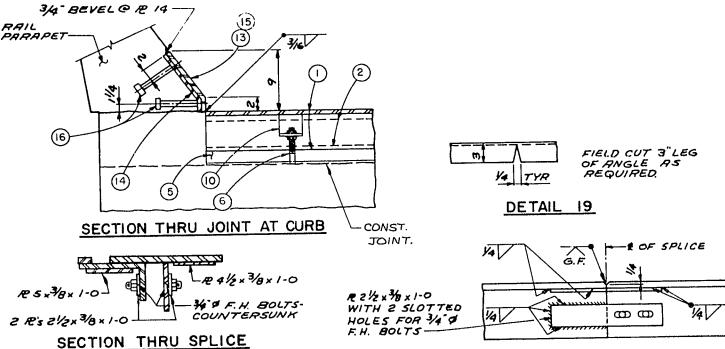




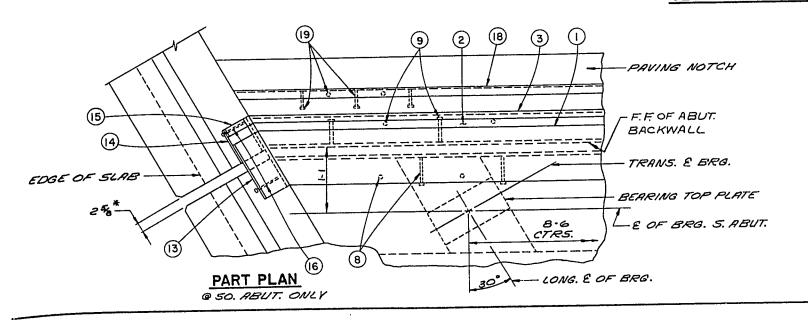


BEARING ELEVATION BEARING DETAILS

@ LONG. & OF BRG.



OPTIONAL FIELD SPLICE DETAIL ONE SPLICE SHALL BE PERMITTED IN JOINT.



BEARING NOTES

1/96-6-7/	SHIFT NUMBER	TOTAL SHEETS
EMP F08-4(36)	35	294

ALL MATERIAL EXCLUDING ANCHOR BOLTS, PINTLES, NUTS, STUDS WASHERS SHALL BE MADE OF A588 STEEL PINTLES SHALL BE MADE OF A449 STEEL.

ALL STRUCTURAL STEEL BEARING PLATES SHALL BE FLAT
ROLLED STEEL PLATES WITH ALL SURFACES SMOOTH AND FREE FRO
WARP AND ALL EDGES SMOOTH, STRAIGHT AND YERTICAL.

ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME GUTS. MACHINE FINISH THE BOTTOM SURFACE ONLY OF PLATES SHOWN TO BE FINISHED.

ALL MATERIAL EXCLUDING BRONZE PLATES & BEARING PADS
SHALL BE PAID FOR AT THE UNIT PRICE BID FOR

"STRUCTURAL LOW ALLOY STEEL."
ALL ANCHOR BOLTS TO BE 11/4" \$ x 1-3 LONG, SET FLUSH AND WITH LEAD TO THE TOP OF PLATE 'C'. EXCESS LENGTH MAY BE FURNISHED, THREADED FOR SETTING AND THEN CUT OFF FLUSH.

CHAMFER TOP OF PINTLES 'S". DRILL HOLES FOR PINTLES IN PLATE 'C' FOR DRIVING FIT. PROVIDE V8" THICK BEARING PAD SAME SIZE AS PLATE 'C' FOR EACH BEARING.

ALL BEARINGS ARE SYMMETRICAL

LEGEND

1. WT 6 x 39.5 x ROADWAY WIDTH WELDMENT MAY BE USED SEE DETAIL A.
2. L 7x 9x 7/10 x ROWN WIDTH LONG DIMENSION OF '9/10' x 1 ½" SLOTTED
HOLE TO BE PARALLEL TO DIRECTION OF MOVEMENT.

3. BAR IV2 x 3/4 x ROWY. WIOTH, WELD TO L#2 WITH & LINES OF 1/4

3. BAN 1/2×3/A LAUWY, WINTH, WEED 1. TO BE SOLUTION OF THE SOL

7. VENT HOLES, "HE PAT 2-0 CTRS, IN WITH AND C"Z AND 3-0 CTRS, IN 18. 8. 48 STUDS . 6 36" LONG. WELD TO WITH AT 6" ALTERNATE CENTERS.

9. \$8"\$ STUDS x 6 \$8"LONG. WELD TO L \$2 AT 9 ALTERNATE CENTERS.
10. C3x2 \$2x \$36 x 3"LONG AT 3-0 CENTERS. WELD TO L \$2 AND WT \$1

PROVIDE 'S/16 \$4 HOLES IN 25" LEG FOR RODS \$4 AND \$11.

11. \$4\$ \$ROD x 9 LONG \$7 NUT THREAD 3" TACK WELD NUT TO L \$10.

12. \$16 x \$10 x \$10 LONG KEEPER BAR. ONE PER \$4 BOLT PLACE BAR WITH

LONG DIMENSION PARALLEL TO \$ OF ROWY. \$7" CLEAR FROM \$4 SQUAR.

NUT AND WELD BAR AT SIDE FACING AWAY FROM NUT WITH \$16 FILLET

WELD 11/4" LONG TO L \$2.

13. \$2 \cdot 1/4" \$36-FIELD WELD TO WT \$\frac{1}{2}\$.

WELD IV4" LONG TO CHE.

13. R1-13x30-FIELD WELD TO WT # 1.

14. R8% x8-WELD TO R*5 WITH ONE LINE OF V4 MAX. FILLET WELD,

N.S. & F.S.

15. R134x30-FIELD WELD TO BAR*3.

16. \$18 & STUDS x 6 \$18 LONG. WELD TO R'S * 13 AND # 14.

17. BLOCK AND BOLT FOR SHIPMENT WITH PIPE SLEEVE AND V2 4" BOLT.

PROVIDE 7/16 & HOLES AT 3-0 CENTERS IN WT # 1 AND L#2 FOR BOLT.

18. 23x2x5/16x RDWY. WIDTH. ONE WELDED FIELD SPLICE WILL BE

PERMITTED. SEE DETAIL * 19. ONE L REQUE EACH ABUT.

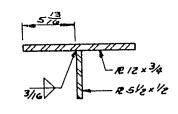
19. 3/8 & STUDS x 4"LONG. WELD TO L'18 AT G"ALTERNATE CENTERS.

20. R 734x4x RDWY. WIDTH. % CONTINUOUS FIELD WELD

TO L #2.

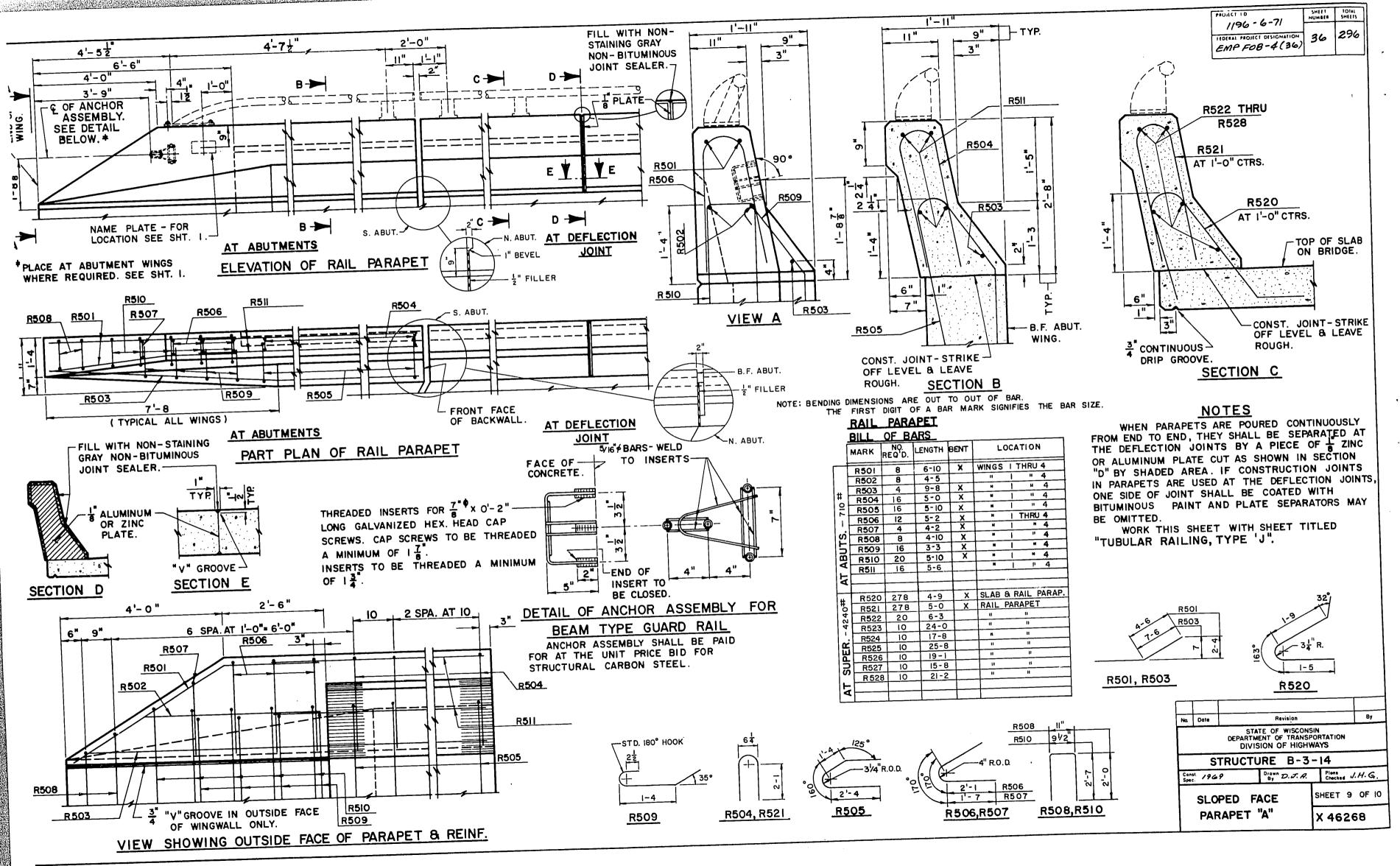
EXPANSION JOINT NOTES

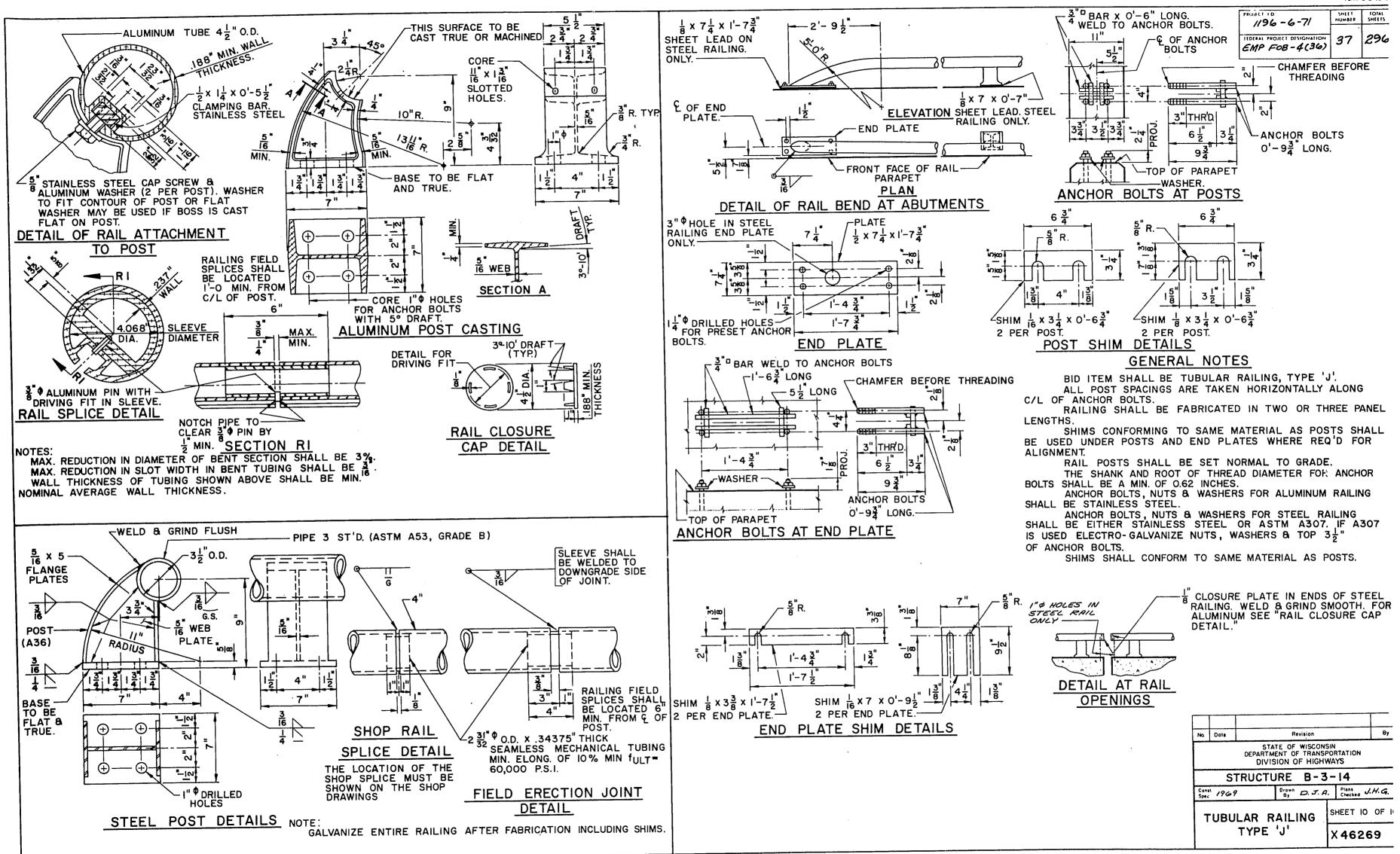
EXPANSION JOINT SHALL BE BUILT TO CONFORM TO ROADWAY EXPANSION VOINT SHALL BE BUILT TO CONTROL TO CONTROL TO CONTROL TO CONTROL TO CONTROL TO CONTROL THE SHALL BE AFTER CONCRETE HAS SET THE JOINT OPENING SHALL BE THOROUGHLY CLEANED AND BOLTS #4 REMOVED AND THE HOLL FILLED WITH HOT POURED ELASTIC JOINT SERIER, APPLY ± 1/6" COAT OF BITUMASTIC TO METAL SURFACES FORMING JOINT AND FILL OPENING WITH HOT POURED ELASTIC JOINT SEALER. ALL MATERIAL SHALL BE PRID FOR AT THE UNIT PRICE BID FOR "STRUCTURAL CARBON STEEL"

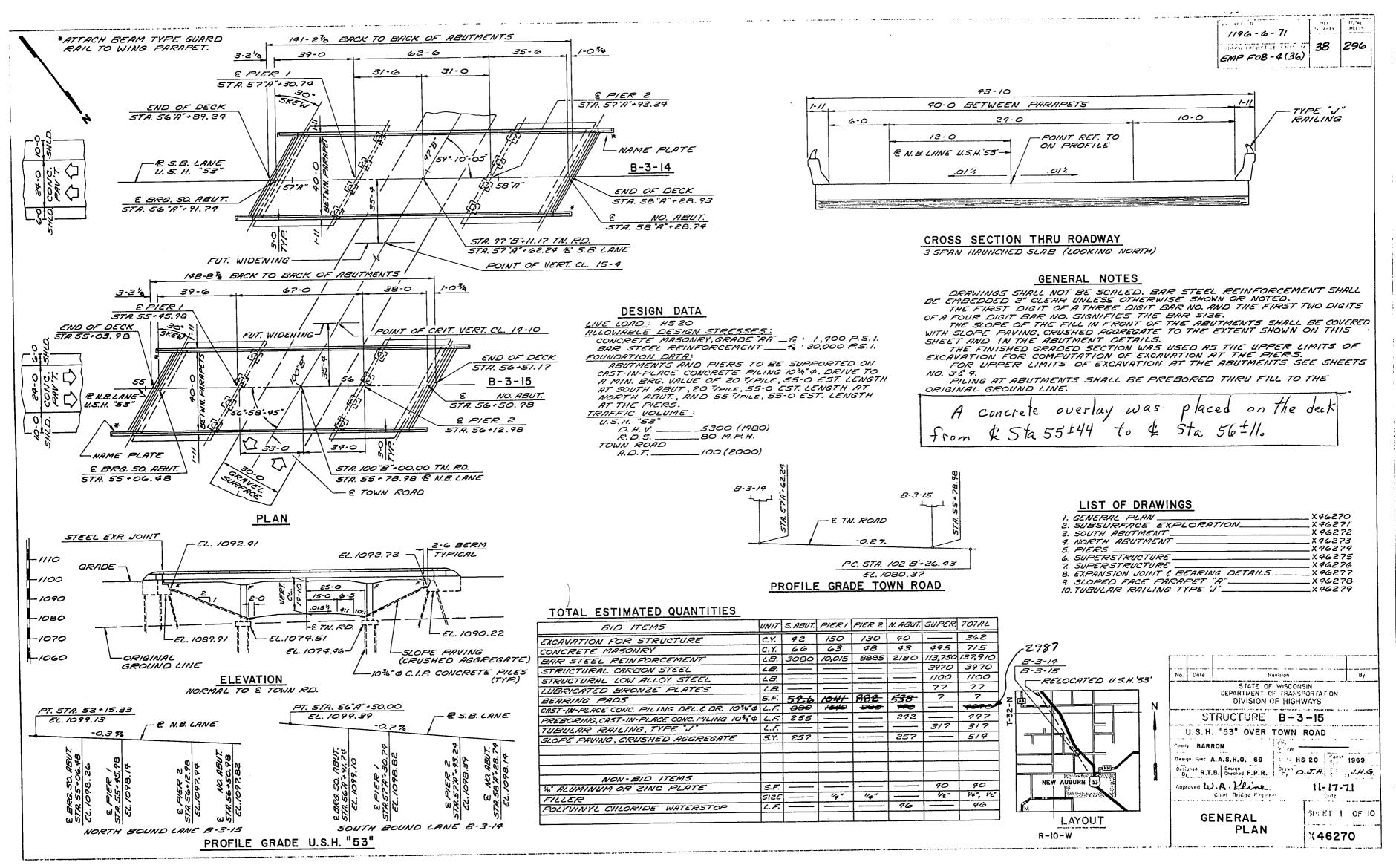


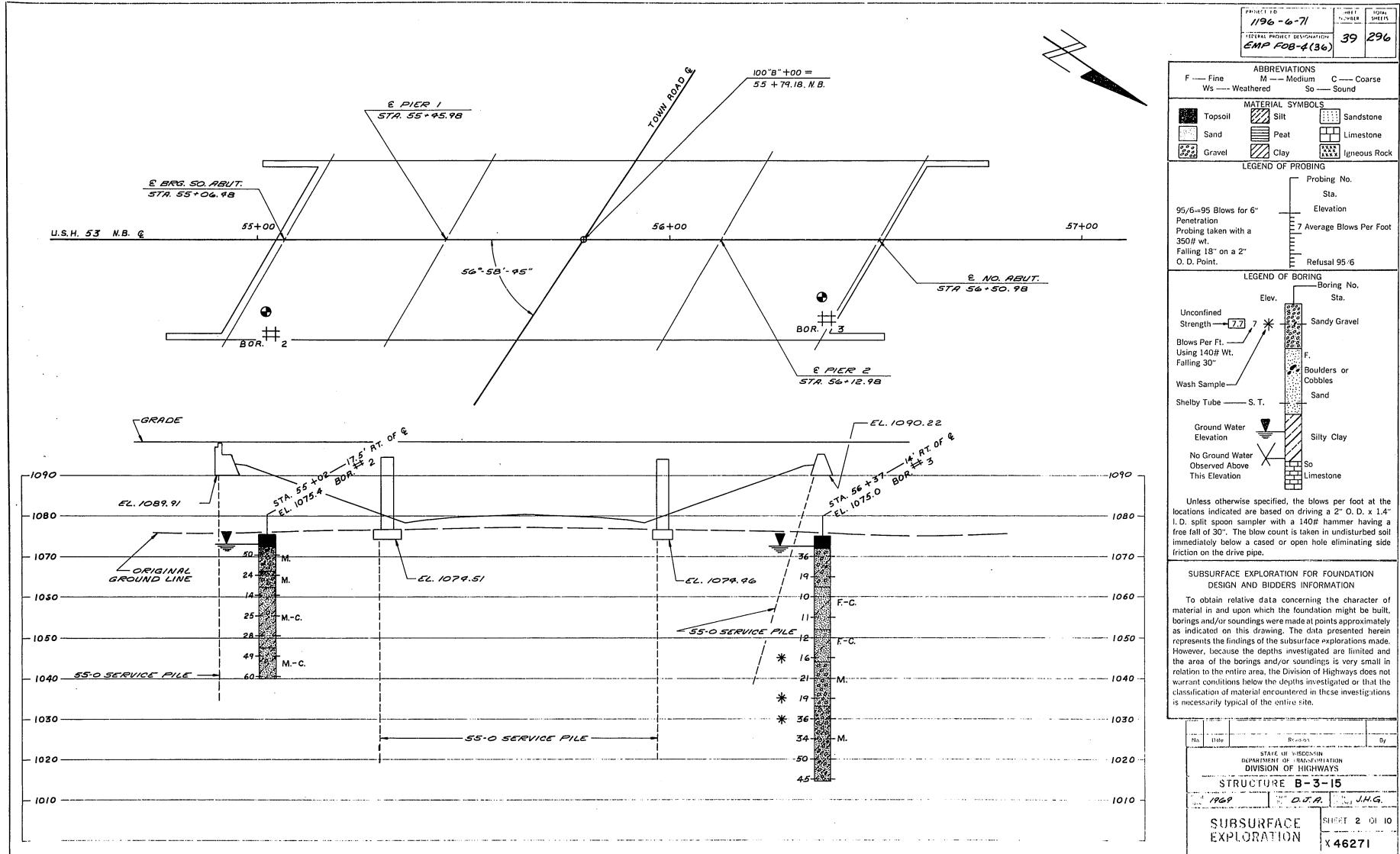
DETAIL A WELOMENT OPTION FOR I

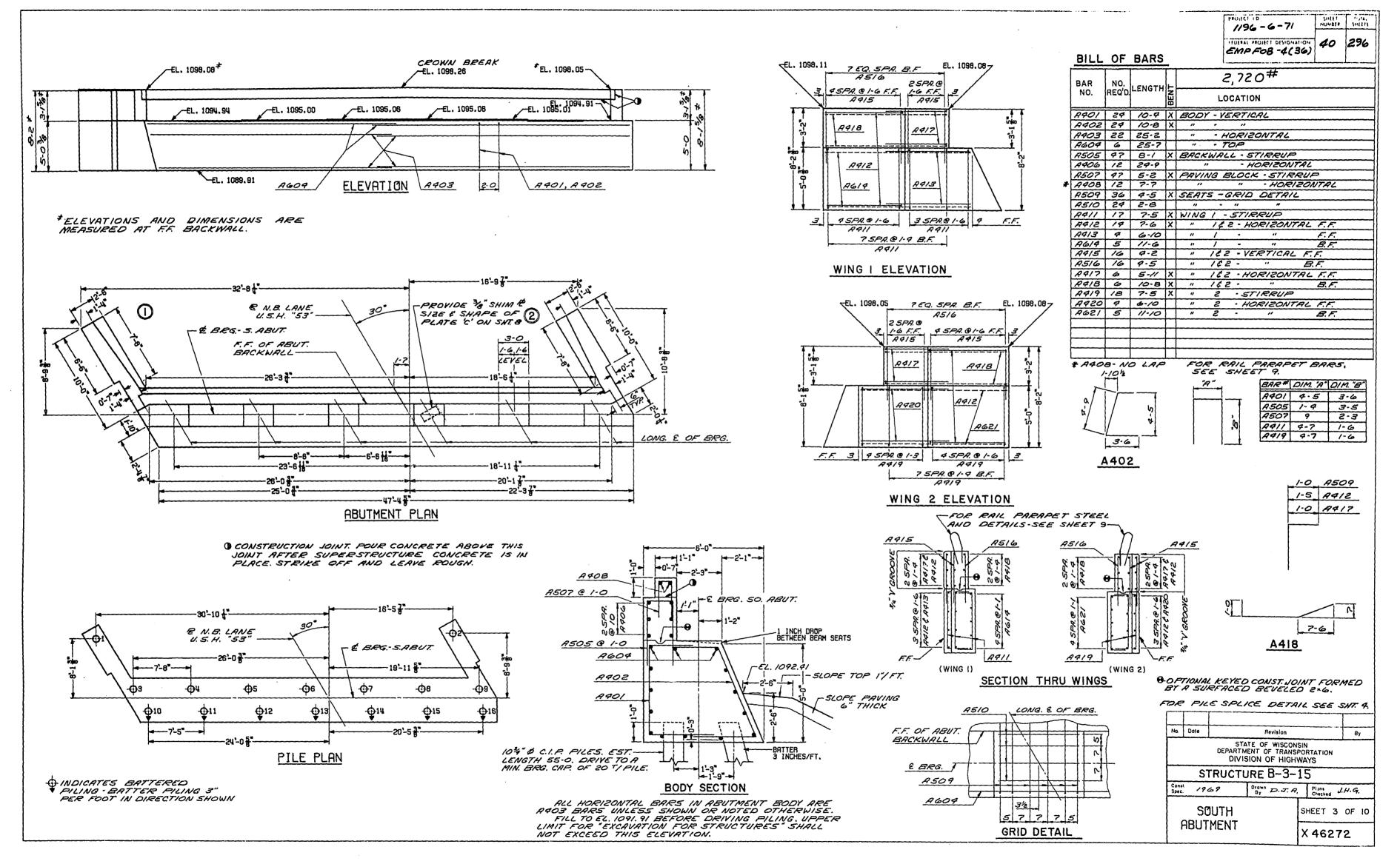
Na.	Date			Revision	_		Ву
-	<u> </u>	DEPAR	TME	E OF WISCONS INT OF TRANSF ION OF HIGH	POF	RTATION YS	
	S.	TRUC	TU	RE B-3	5 -	- 14	
Cont		6 9		B, D. J. A		Plans Checked	J.H.G
	EXPA	_	_	JOINT	s	HEET 8	3 OF
	BEAF	e RING	•	ETAILS	×	462	67

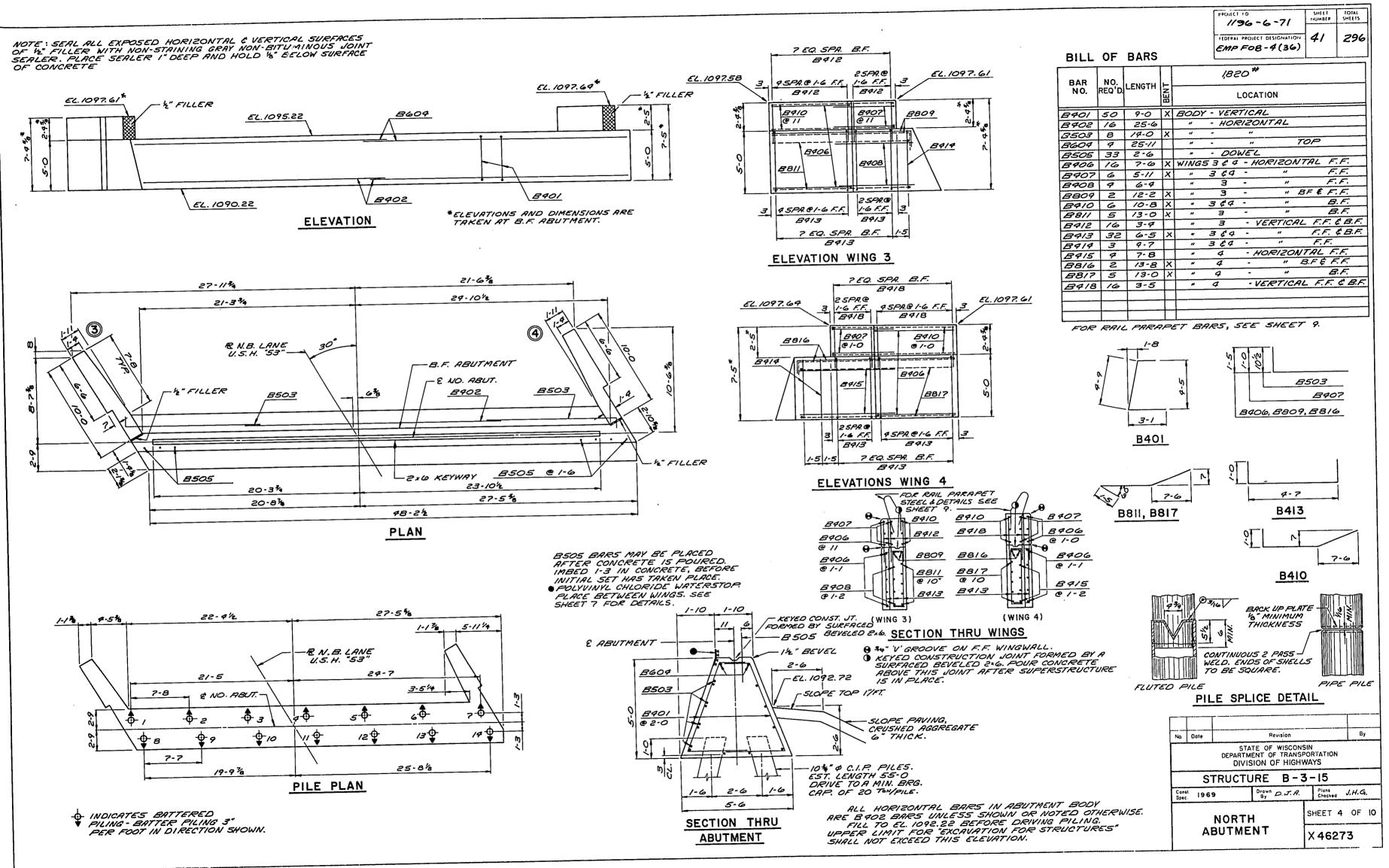


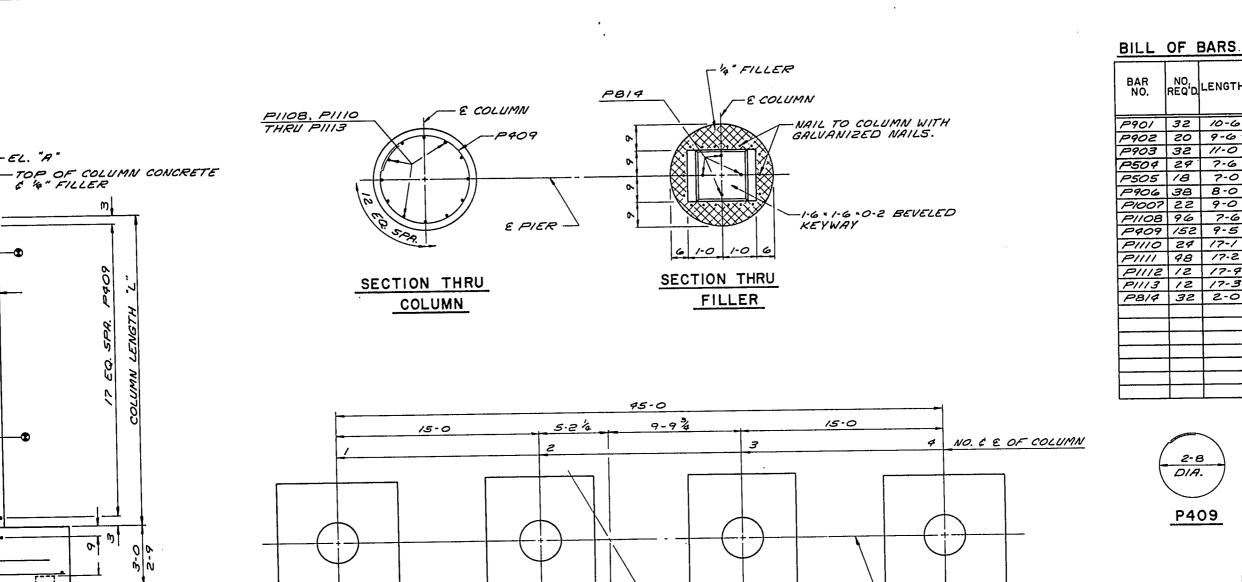




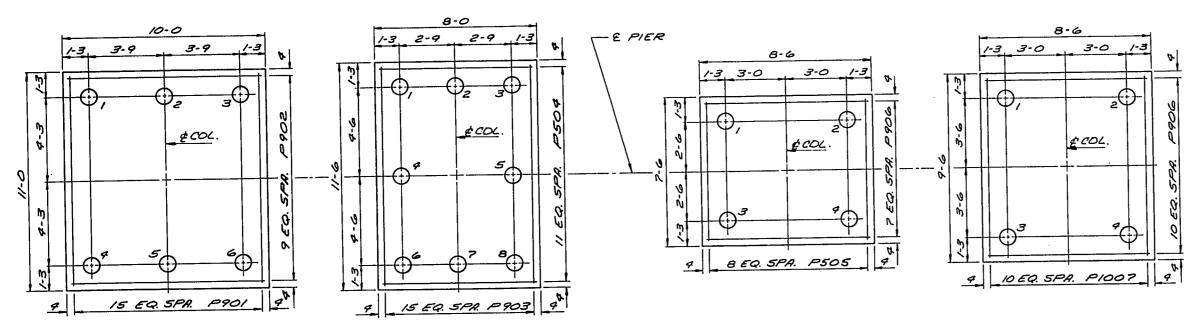








PIER PLAN



INTERIOR FOOTING

— EL. "A"

P814

3-0

PIIIO THRU P1113

E COLUMN

P1108

PIER 1 EL. 1074.51 PIER 2 EL. 1074.46

104" C.I.P. PILING. DRIVE TO A MIN. BRG CAP. OF 55 TONS/PILE. EST. LENGTH 55-0-

TYPICAL COLUMN ELEVATION

EXTERIOR FOOTING

TYPICAL FOOTING PLAN - PIER I

P902, P504 P906 P901, P903 P505, P1007

P\$09

EXTERIOR FOOTING

INTERIOR FOOTING

R N.B. LANE U.S.H. "53"

TYPICAL FOOTING PLAN - PIER 2

HEET PROJECT ID 1196-6-71 296 PEDERAL PROJECT DESIGNATIO 42 EMP FOB -4(36)

BAR	NO.	. ENOTH	F	18,900 [#]
NO.	REQ'D.	LENGTH	BENT	LOCATION
P901	32	10-6	П	EXTERIOR FOOTINGS - PIER 1
P902	20	9-6		" "
P903	32	11-0		INTERIOR " - "
P504	29	7-6		" "
P505	18	7-0		EXTERIOR " - " 2
P906	38	8-0		EXT. & INT. " - " 2
P1007	22	9-0		INTERIOR " - " 2
P1108	96	7-6	X	
P409	152	9-5	X	
PIIIO	24	17-1		PIER I, COLUMN I & 4 - VERTICAL
PIIII	98	17.2		PIER I, COL. 2 & 3, PIER 2, COL. 1 & 4 - VERT.
PIIIZ	12	17-9		PIER 2, COLUMN 2 - VERTICAL
P1113	12	17-3		" 2, " 3· "
P814	32	2-0		COLUMN & SLAB - DOWELS
	T			
			L	



P1108

P409

ELEVATION AND

COLUMN LENGTH

			ELEV. "A"	LENGTH "L"
	COLUMN	1	1094.76	17-3
L.	"	г	1094.92	17-438
OVER	"	3	1094.90	17-4%
ď,	"	4	1094.79	17-33/8
ď	"	/	1094.56	17-44
ų.	"	2	1094.71	17-6
PIEI	"	3	1094.70	17-51/s
	"	4	1094.59	17-4/2

TOP OF COLUMN ELEVATIONS (EL. "A") AND COLUMN LENGTH "L"

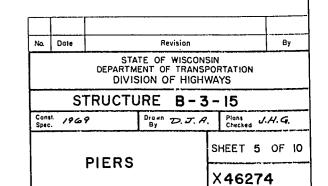
ARE MEASURED AT E PIER AND E COLUMN.

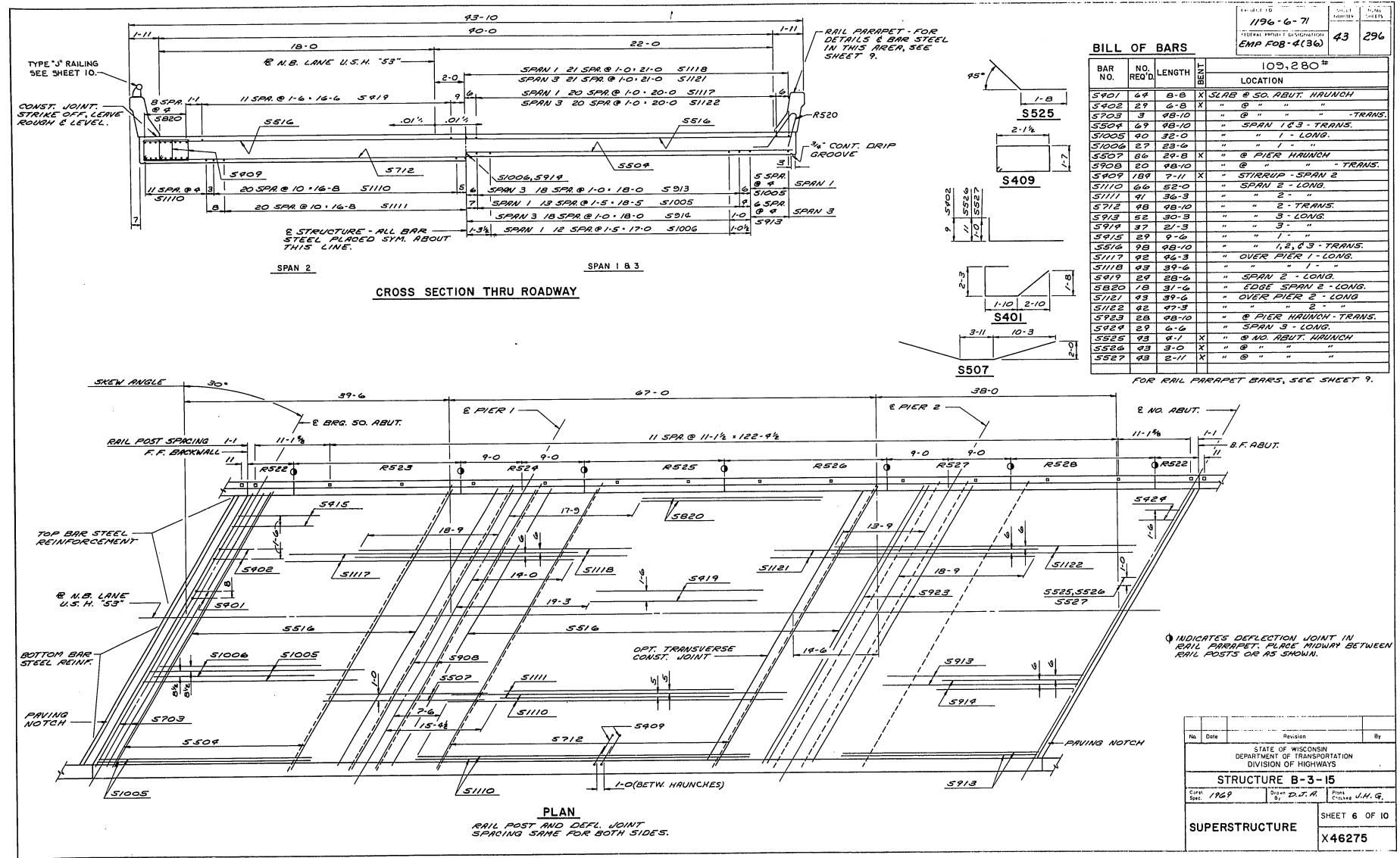
SLOPE TOP OF COLUMN TO MATCH SLOPE OF SUPERSTRUCTURE.

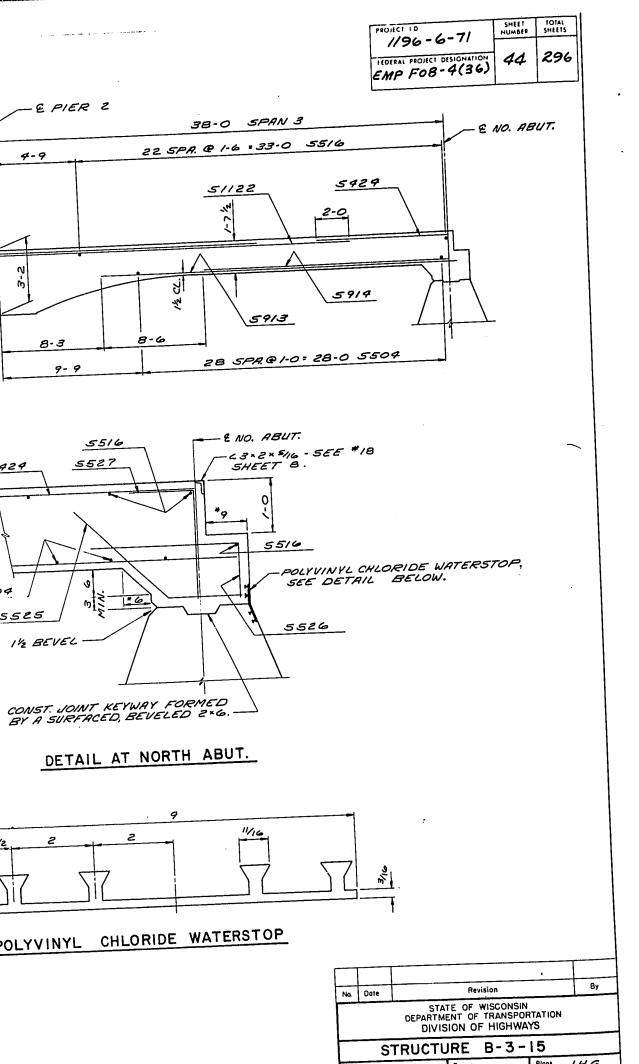
CONSTRUCTION JOINT KEY FORMED BY A SURFACED

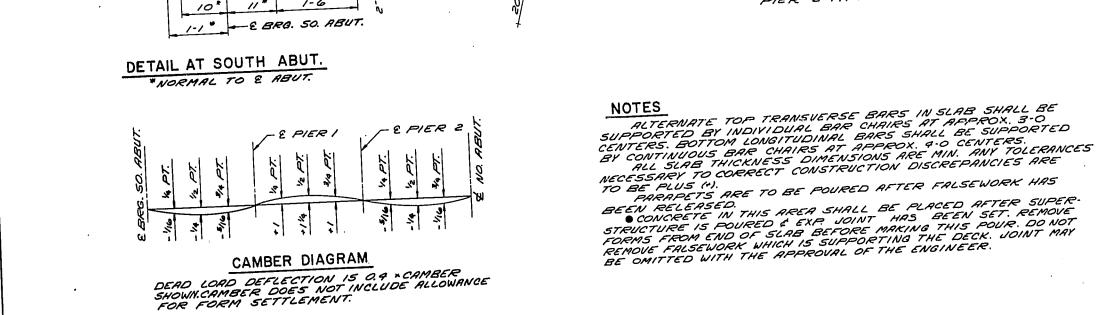
BEVELED 1-6 * 1-6 * 0-2.
P814 BARS MAY BE PLACED AFTER COLUMN CONCRETE IS POURED

BUT BEFORE BEFORE INITIAL SET HAS TAKEN PLACE. FOR PILE SPLICE DETAIL SEE SHEET 4.









4-9

8.0

1-10

10-0

5415

5402

- E BRG. 50. RBUT.

5415

51006

5401

5504

39-6 SPAN 1

51117

21 SPA. @ 1-6: 31-6 5516

51005

5703

27 SPA.@1-0:27-0 5504

E PIER I

25PA.@ 2.0 TYP

8-3°

1-10

67-0 SPAN 2

39 SPA. @ 1-6 = 58-6

51110

LONGITUDINAL SECTION

-E PIER

-SPAN 2-

5507

8-3°

13 SPR. 6 6: 6.6

5923

1-60

5908

95PA.@9

3-6

HAUNCH DETAIL PIER 1 SHOWN PIER 2 TYPICAL

A NORMAL TO & PIER PARALLEL TO & ROWY.

≥.0

51118

5516

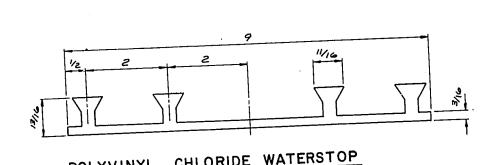
51111

5419

47 SPA. @ 1-0: 47-0 5712

51121

1-6/2



POLYVINYL CHLORIDE WATERSTOP

E PIER Z

4-9

8-3

5424

5504

5525

1/2 BEVEL

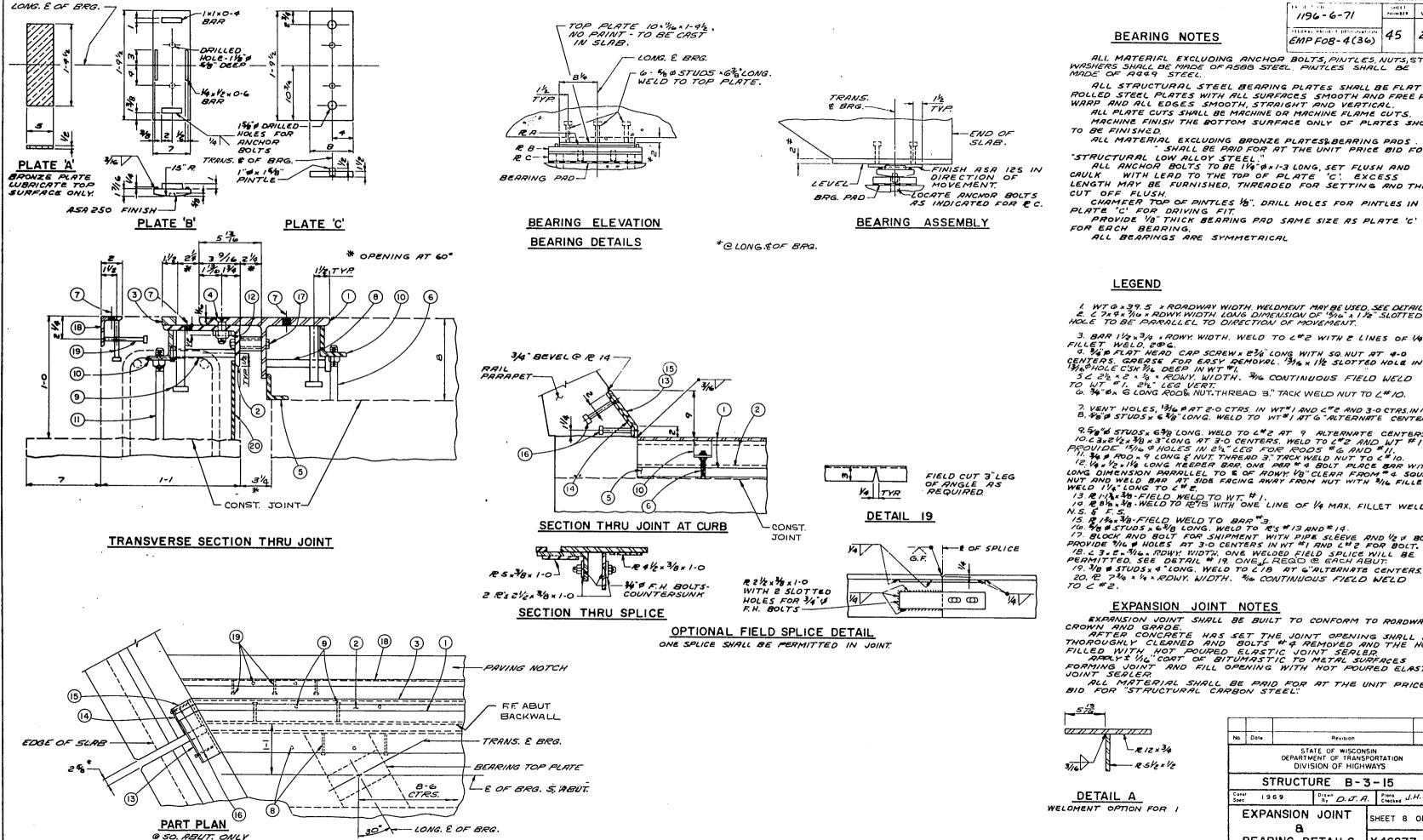
9-9

5516

5527

-OPT. TRANS. CONST. JT. FORMED WITH A SURFACED, BEVELED

				•				
Date		Revision				Ву		
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS								
STRUCTURE B-3-15								
st. 1969)	Drawn D. J. A	·.	Plans Checked	J.	H.G		
			s	HEET	7	OF	10	
UPE	RSTRUC	TURE	X46276					
	S. 1969	STA DEPARTM DIVIS STRUCTU	STATE OF WISCON DEPARTMENT OF TRANS DIVISION OF HIGH STRUCTURE B-3	STATE OF WISCONSIN DEPARTMENT OF TRANSPORT DIVISION OF HIGHWAS STRUCTURE B-3- LIPERSTRUCTURE B-3- STRUCTURE	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STRUCTURE B-3-15 The property of the pr	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STRUCTURE B-3-15 The property of the pr	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STRUCTURE B-3-15 Plone By Drawn D. J. R. Plone Checked J.H. G. SHEET 7 OF	



BEARING NOTES

1196-6-71	SHIFT NUMBER	TOTAL SHEETS
EMP F08-4(36)	45	296

ALL MATERIAL EXCLUDING ANCHOR BOLTS, PINTLES, NUTS, STUDS WASHERS SHALL BE MADE OF ASBB STEEL PINTLES SHALL BE MADE OF AGAG STEEL

ROLLED STEEL PLATES WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

MACHINE FINISH THE BOTTOM SURFACE ONLY OF PLATES SHOWN TO BE FINISHED. ALL MATERIAL EXCLUDING BRONZE PLATES& BEARING PADS

SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STRUCTURAL LOW ALLOY STEEL." ALL ANCHOR BOLTS TO BE IV4" # * 1-3 LONG, SET FLUSH AND

WITH LEAD TO THE TOP OF PLATE 'C' EXCESS LENGTH MAY BE FURNISHED, THREADED FOR SETTING AND THEN CUT OFF FLUSH

CHAMFER TOP OF PINTLES 18". DRILL HOLES FOR PINTLES IN PLATE 'C' FOR DRIVING FIT. PROVIDE 18" THICK BEARING PAO SAME SIZE AS PLATE 'C' FOR EACH BEARING.

ALL BEARINGS ARE SYMMETRICAL

LEGEND

- 1. WT G x 39.5 X ROADWAY WIDTH, WELDMENT MAY BE USED, SEE DETAIL A. E. C 7x 4x 1/6 x ROWY. WIDTH. LONG DIMENSION OF '9/6" x 1 1/2" SLOTTED HOLE TO BE PARALLEL TO DIRECTION OF MOVEMENT.
- 3. BAR IV2 x 3/4 x ROWY. WIOTH, WELD TO L#2 WITH & LINES OF 1/4 FILLET WELD, 2006.
- 4. 14 & FLAT HEAD CAP SCREW x 23 LONG WITH SO NUT AT 4-0 CENTERS. GREASE FOR EASY REMOVAL. 136 x 1/2 SLOTTED HOLE IN 2"2. 13/6"HOLE C'SK 1/4 DEEP IN WT "1.
- 56 26 x 2 x 4 x ROWY. WIDTH. THE CONTINUOUS FIELD WELD ON MIT #1. 24" LEG VERT.

 6. 34 * 0 x 6 LONG ROOM NUT THREAD 3." TACK WELD NUT TO L#10.
- 7. VENT HOLES, THE PAT 2-O CTRS. IN WIT I AND CTE AND 3-O CTRS. IN B. S. FB STUDS X & VB LONG. WELD TO WIT AT G ALTERNATE CENTERS.
- 9.5% & STUDS & 638 LONG. WELD TO L 2 AT 9 RITERNATE CENTERS.

 10.63x2½x 38 x 3"LONG AT 3-0 CENTERS. WELD TO L 2 AND WT #1

 PROVIDE 15/16 & HOLES IN 2½" LEG FOR RODS #6 AND #11.

 11. 34 \$ ROD & 9 LONG & NUT THREAD 3" TACK WELD NUT TO L #10.

 12. 14 \$ ½x 1½x LONG KEEPER BAR, ONE PER # 4 BOLT PLACE BAR WITH

 LONG DIMENSION PARALLEL TO & OF ROWY. 18" CLEAR FROM #4 SOURRE

 NUT AND WELD BAR AT SIDE FACING AWAY FROM NUT WITH 3/16 FILLET

 WELD 1½ LONG TO L #2.

 13. R 1-12 * 30 FIELD WELD TO WT. #1.

 14. R 8 & 36 WELD TO R 9/5 WITH ONE LINE OF ½ MAX. FILLET WELD,

 N.S. & F. S.

 15. R 1-2 * 34 FIELD WELD TO ROPE #2.
- N.S. & F. S.
 15. R 194. 38- FIELD WELD TO BAR #3.
 16. R 194. 38- FIELD WELD TO BAR #3.
 16. PS & STUDS x 6 98 LONG. WELD TO R'S # 13 AND # 14.
 17. BLOCK AND BOLT FOR SHIPMENT WITH PIPE SLEEVE AND 12 & BOLT.
 PROVIDE 7/16 & HOLES AT 3-0 CENTERS IN WT #1 AND L#2 FOR BOLT. 18.23 & S. SIG. ROWK WIDTH, ONE WELDED FIELD SPLICE WILL BE PERMITTED, SEE DETAIL # 19. ONE L REQUE GACH ABUT. 19. 18 & STUDS X 4" LONG, WELD TO 218 AT G"ALTERNATE CENTERS.

20. E 73/4 x 1/4 x RDWY. WIDTH. 4/4 CONTINUOUS FIELD WELD TO 6#2.

EXPANSION JOINT NOTES

EXPANSION JOINT SHALL BE BUILT TO CONFORM TO ROADWAY CROWN AND GRADE AFTER CONCRETE HAS SET THE JOINT OPENING SHALL BE THOROUGHLY CLEANED AND BOLTS # 4 REMOVED AND THE HOLES FILLED WITH HOT POURED ELASTIC JOINT SERIER APPLY I'L CORT OF BITUMASTIC TO METAL SURFACES FORMING VOINT AND FILL OPENING WITH HOT POURED ELASTIC

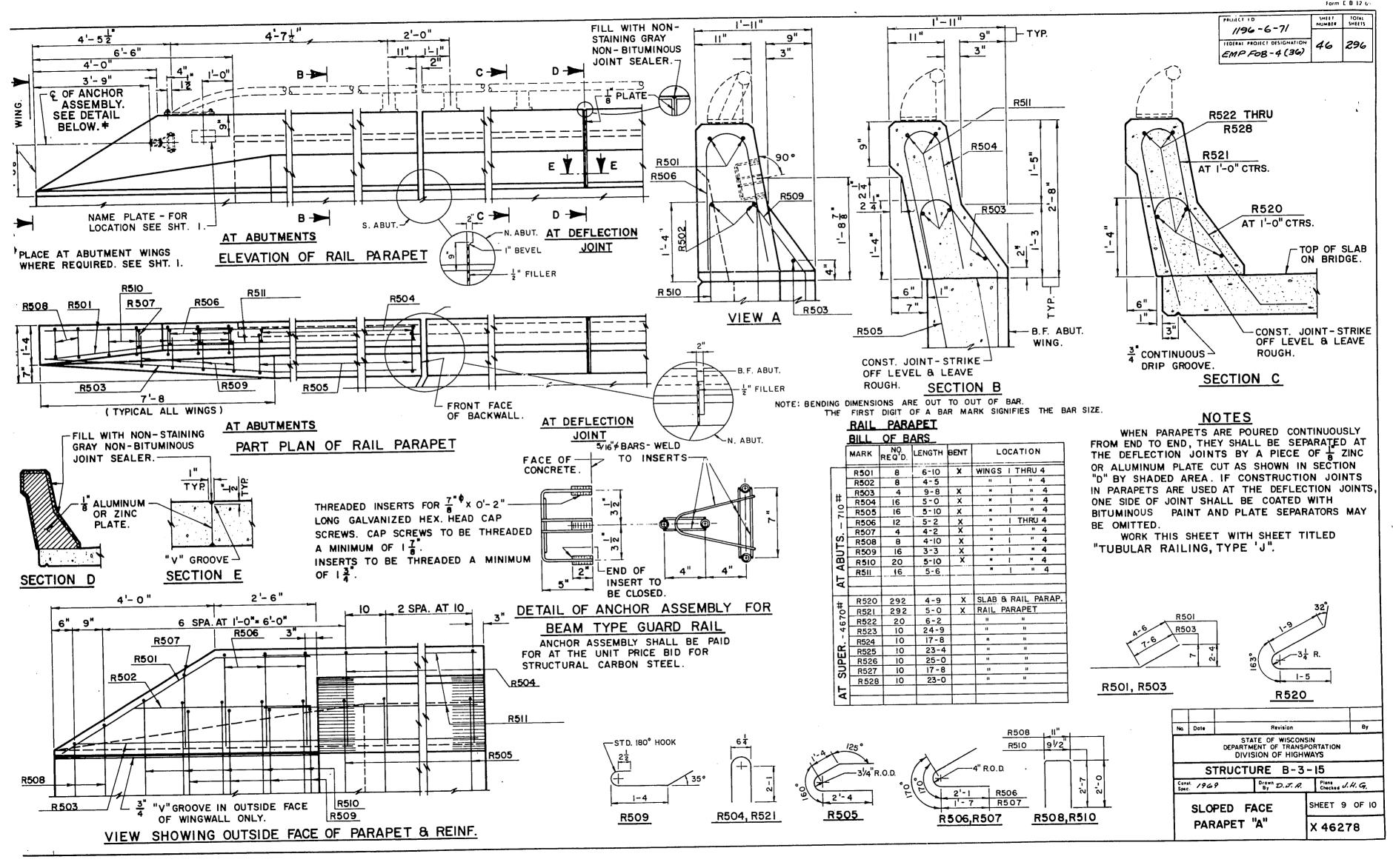
ALL MATERIAL SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STRUCTURAL CARBON STEEL"

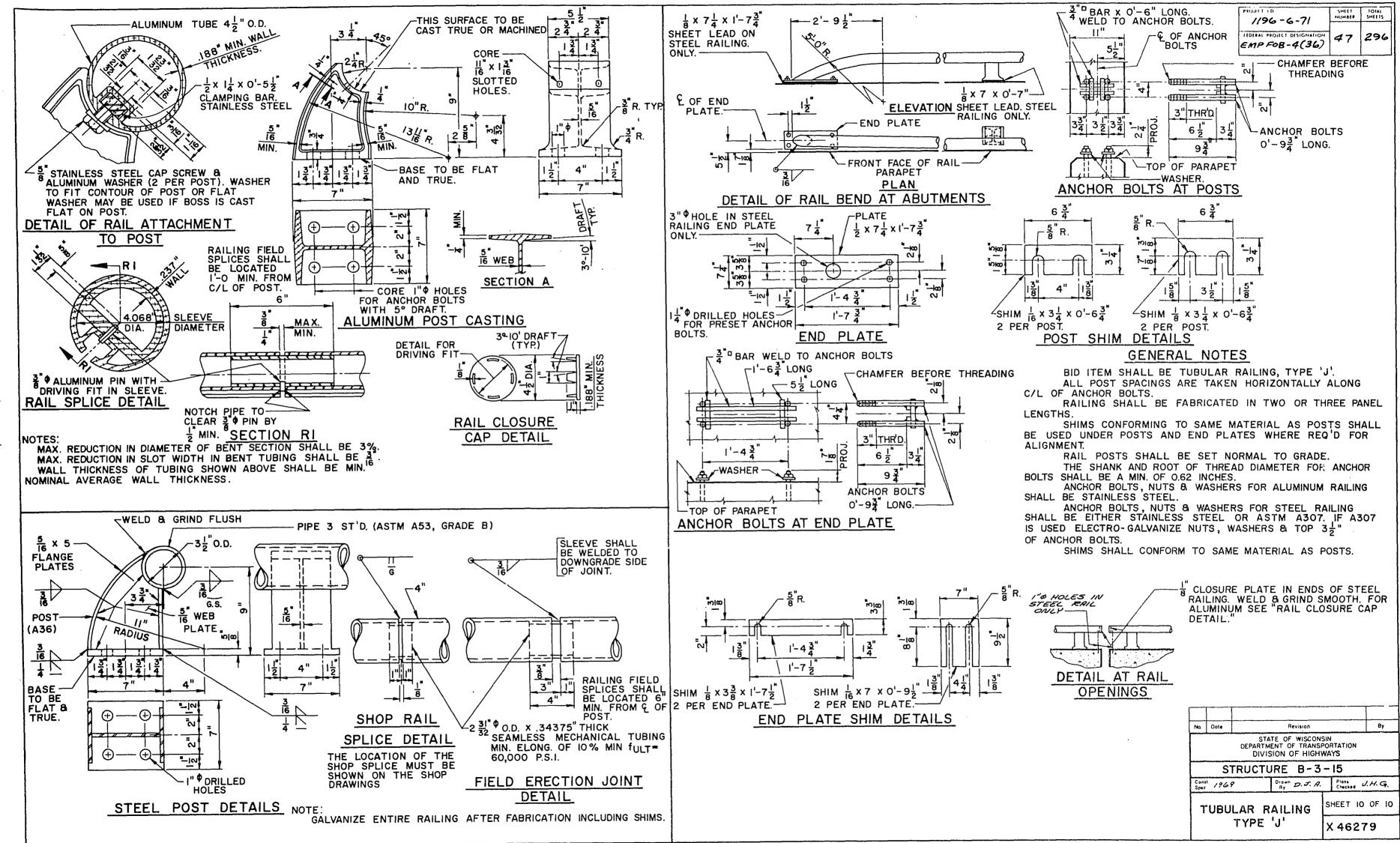
DETAIL A WELOMENT OPTION FOR Na Date STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

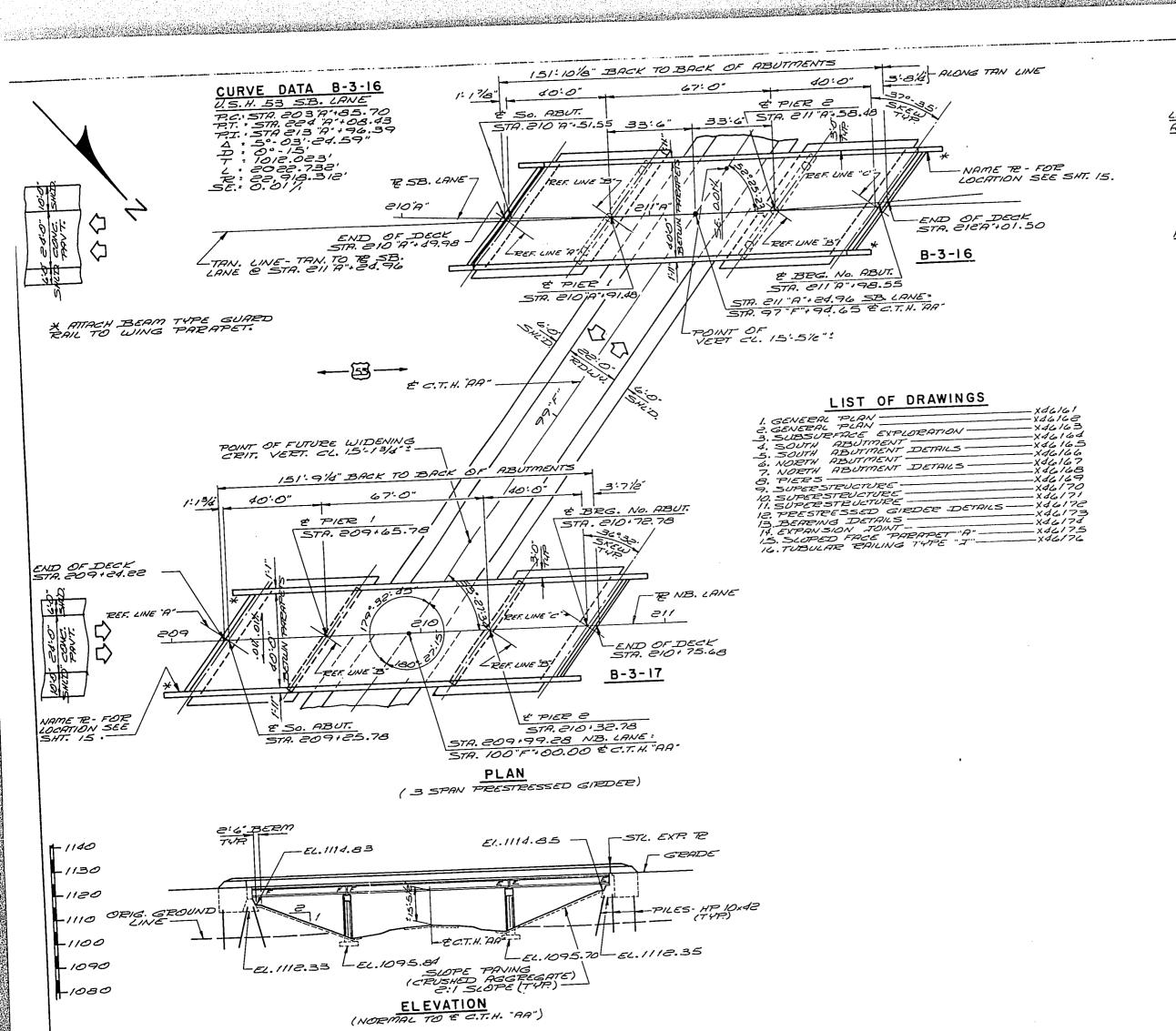
STRUCTURE B-3-15 1969 B, D. J. A. Plans J.H.G.

EXPANSION JOINT SHEET 8 OF ID

BEARING DETAILS X46277







1196-6-76 48 296 HOLPAL PROJECT DESIGNATION EMP FOB -4(36)

DESIGN DATA

LIVELOAD: HS-20 CONCRETE MASONRY GRADE "AA" SLAB - fo: 1,000 P.S.I.
BAR STEEL REINFORCEMENT - fs: 20,000 P.S.I. ALLOWABLE DESIGN STRESSES: A: 20,000 P.S.I. · fé 6,000 P.S.I. -270,000 P.S.I.

SUPPORT ABUTMENTS ON HPIO, 42 STEEL "H" PILES. EST.

SUPPORT ABUTMENTS ON HPIO, 42 STEEL "H" PILES. EST.

25.0" LONG, I DRIVEN TO A MIN. BEG. VALUE OF 55T/PILE.

SUPPORT PIERS ON SPREAD FOOTINGS WITH A MINIMUM

SUPPORT PIERS ON SPREAD FOOTINGS WITH A MINIMUM

ALLOWABLE BEG. PRESSURE OF 2/6T/ SQ. FT.

GENERAL NOTES

DEPUMS SHALL NOT BE SCALED.

DRAWINGS SHALL NOT BE SCALED.

DRAW STELL REINFORCEMENT SHALL BE EMBEDDED 2"

CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

CLEAR UNLESS OTHERWISE SHOWN OF NOTED.

ELASTOMERIC BEARING PADS NEED NOT BE INDIVIDUALLY

MOLDED PROVIDED THE CUT EDGES ARE SMOOTH & TRUE.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENT

TO THE EXTENT SHOWN ON THIS SHT. & IN THE ABUTMENT

TO THE EXTENT SHOWN ON THIS SHT. & IN THE ABUTMENT

UPPER LIMITS OF EXCAVATION WAS USED AS THE

EXCAVATION QUANTITIES OF "EXCAVATION FOR STRUCTURES"

FOR THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES"

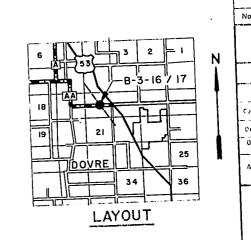
FOR THE ABUTMENTS SHALL BE THE BOTTOM OF THE SLOPE

PROTECTION & THE QUANTITIES WERE COMPUTED FROM

THIS LIME. THIS LINE. SHALL CONFORM TO THE REQUIREMENTS OF R.A. S.H.O. FILLER SHALL CONFORM TO THE REQUIREMENTS OF R.A. S.H.O. DESIGNATION MISS OR MEIS.

> TRAFFIC VOLUME U.S.H. 53 A.D.T. = 5300 (1980)

C.T.H. "AA" A.D.T. . 250 (1980)



ì	- 1	l								
-	No.		Ву							
N	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS									
ìt		Si	RUCT	JRE	B-3		-			
•	U	. S. F	1. 53	OVEF	₹ C.	T.H	'AA"			
	County	ВА	RRON		City Village	TN.		·		
1	Desyn	Spec.	A.A.S.H.O.	1969	Load	Corst. Spec.	1969			
	Design	ed G.H	.A. Design Checked	R.L.P.	By	BUDD	Plans Checke	& G.H.A.		
•	Approved W. A. Yline 11-17-71 Chief Bridge Engineer Date									
Ì					A NI	SHE	ET I	OF 16		
	(BEN	ENERAL PL			X	161	61		

49

PROJECT ID

1196-6-76

PEDERAL PROJECT DESIGNATION

EMP FOB-4(36)

TOTAL ESTIMATED QUANTITIES

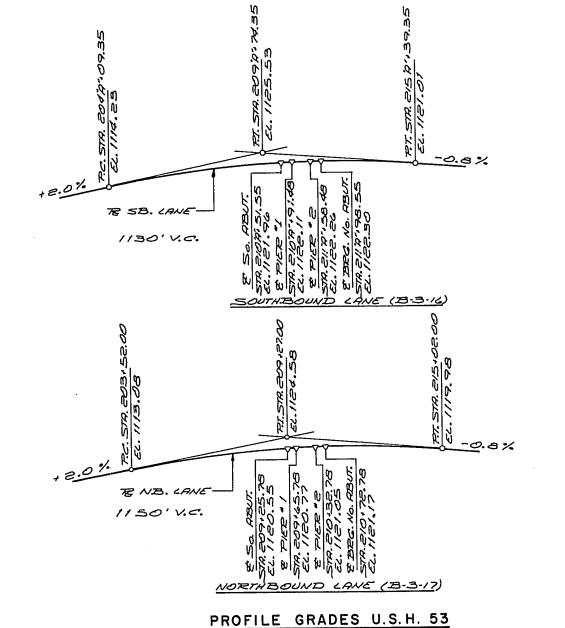
BID ITEMS	UNIT	SUPER.	SO. ABUT.	PIER 1	PIERZ	No. ABUT.	TOTAL
XCAVATION FOR STRUCTURES	c. 4.		45	150	150	50	3 95
CONCRETE MASONRY	0.4.	266.4	60.0	69.3	69.3	92.0	557.0
PESTEESSED GIRDERS, I TYPE 45"	2.F.	590		13,590	13.590		590 181810
BAR STEEL REINFORCEMENT	LBS.	61,090	2.700	٥٠٠٠٥	مصبت	3,730	tetato
STRUCTURAL CARBON STEEL		3,780					3,780
STELLTURAL LOW ALLOY STEEL	ZBS.	2.070					2.070
UBRICATED BRONZE PLATES	LB5.	190					190
BEARING PADS	S.F.	17					/7
BEARING PADS, ELASTOMERIC	S.F.	19			<u> </u>		19
STEEL PILING, DELINERED ! DRIVEN HP 10 x 40	2. F.		403			391	794
TUBULAR RAILING, TYPE "I"	L.F.	332					_3.3.2
SLOPE PAVING, CRUSHED AGGREGATS	5.4.		255			256	5//
NON-BID ITEMS							. 3.6
GLUMINUM OF ZINC PLATE	S.F.	·			$\perp =$		_3 <u>5</u>
POLYVINYL CHLORIDE WATERSTOP	2.F.		55	<u> </u>		.59	14:16:56:1%

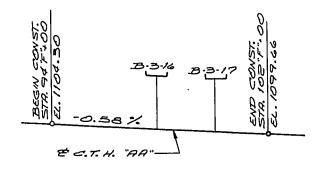
94,700

BAR STEEL QUANTITY WAS DOUBLED ON THE PLAN

43: 10" 40:0" BETWN. PREAPETS 1:11: 18:0 22:0" TYPE "I" RAKING -TAN. LINE TO TE SB. LANE POINT BEF. TO ON PROFILE GRADE 1:0" TE SB. LANE 9" SLAB SE. O.01% - 45" PRESTRESSED GIRDERS. 3 SPA. @ 11-9": 35-3" -KEY FIGS A MIN. OF I'O" INTO SOUND FOCK XXXXXXXX

CROSS SECTION THRU ROADWAY LOOKING NORTHWEST





PROFILE GRADE C.T.H. "AA"

Na Date Revision By

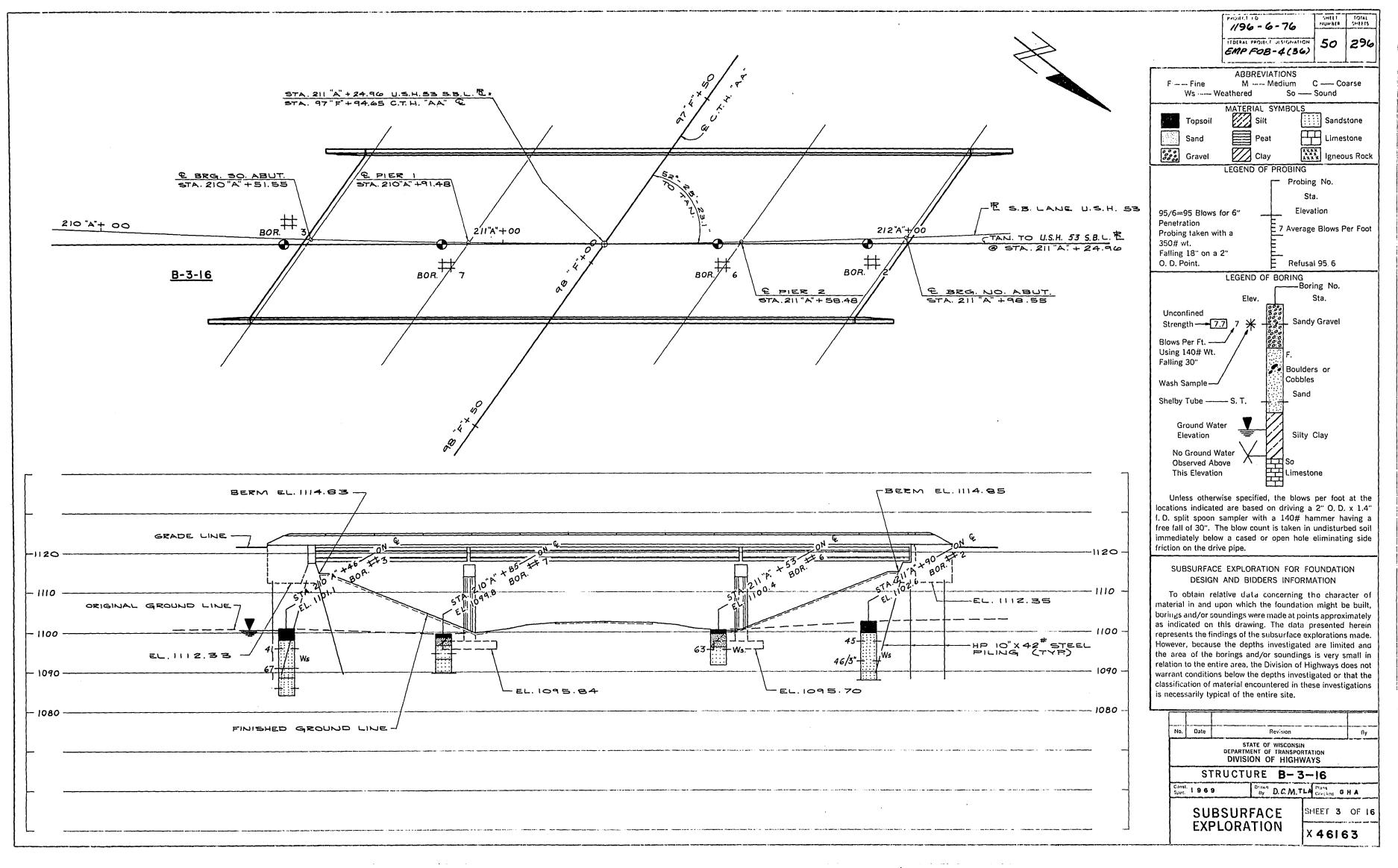
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

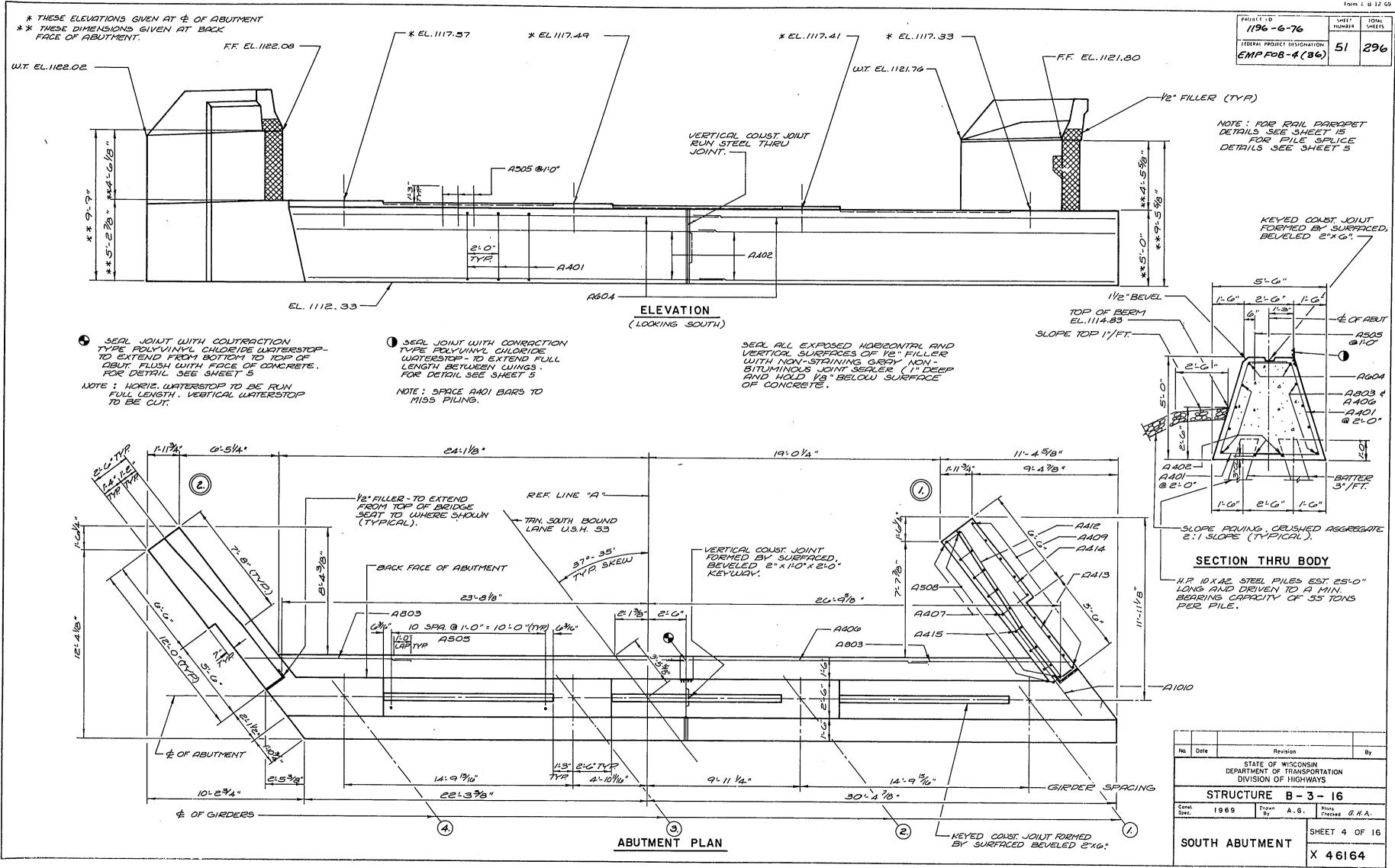
STRUCTURE B-3-16

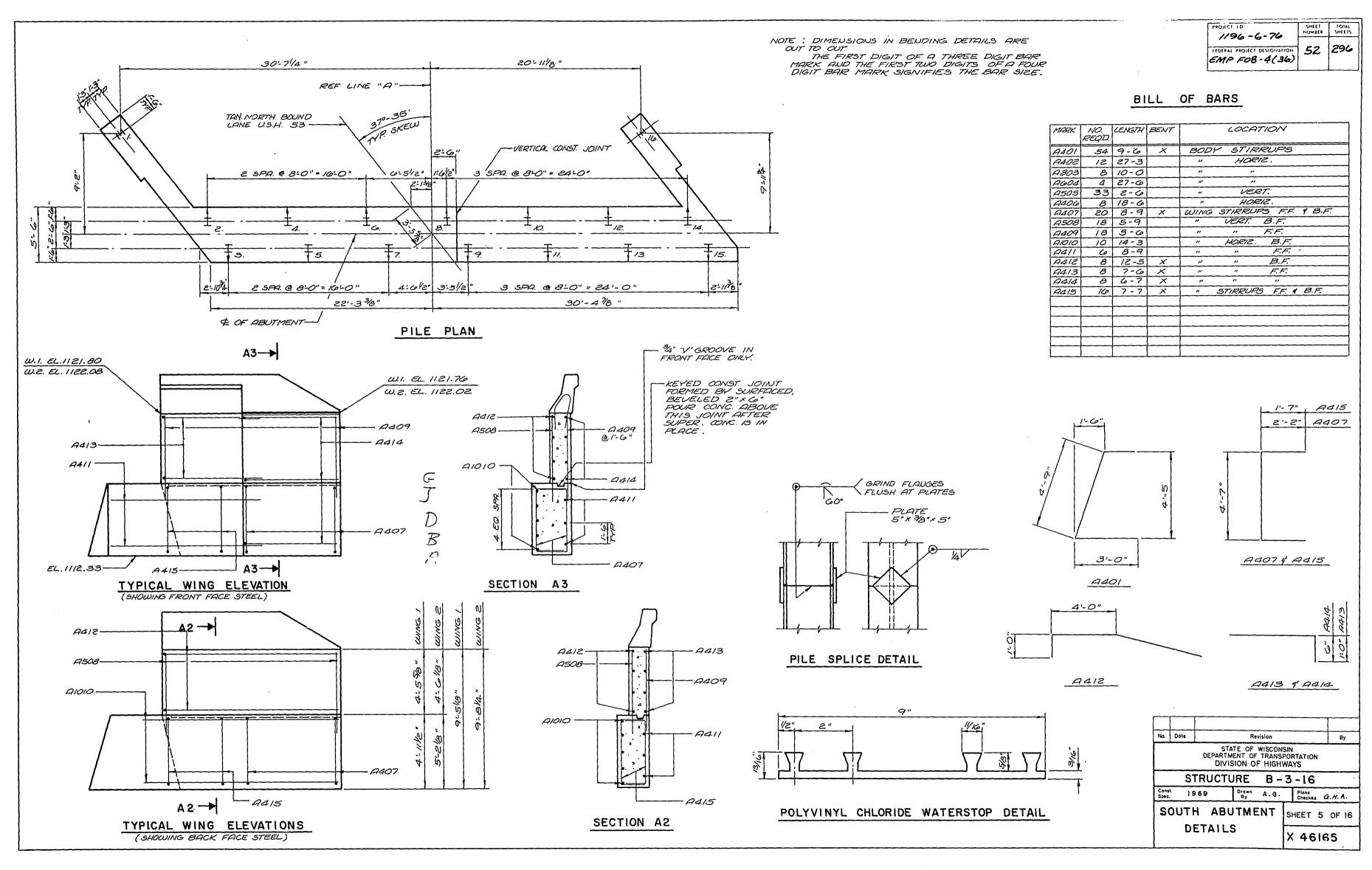
Const. 1969 Drawn BUDD Plans
Spec. 1969 BUDD Checked G. H. A.

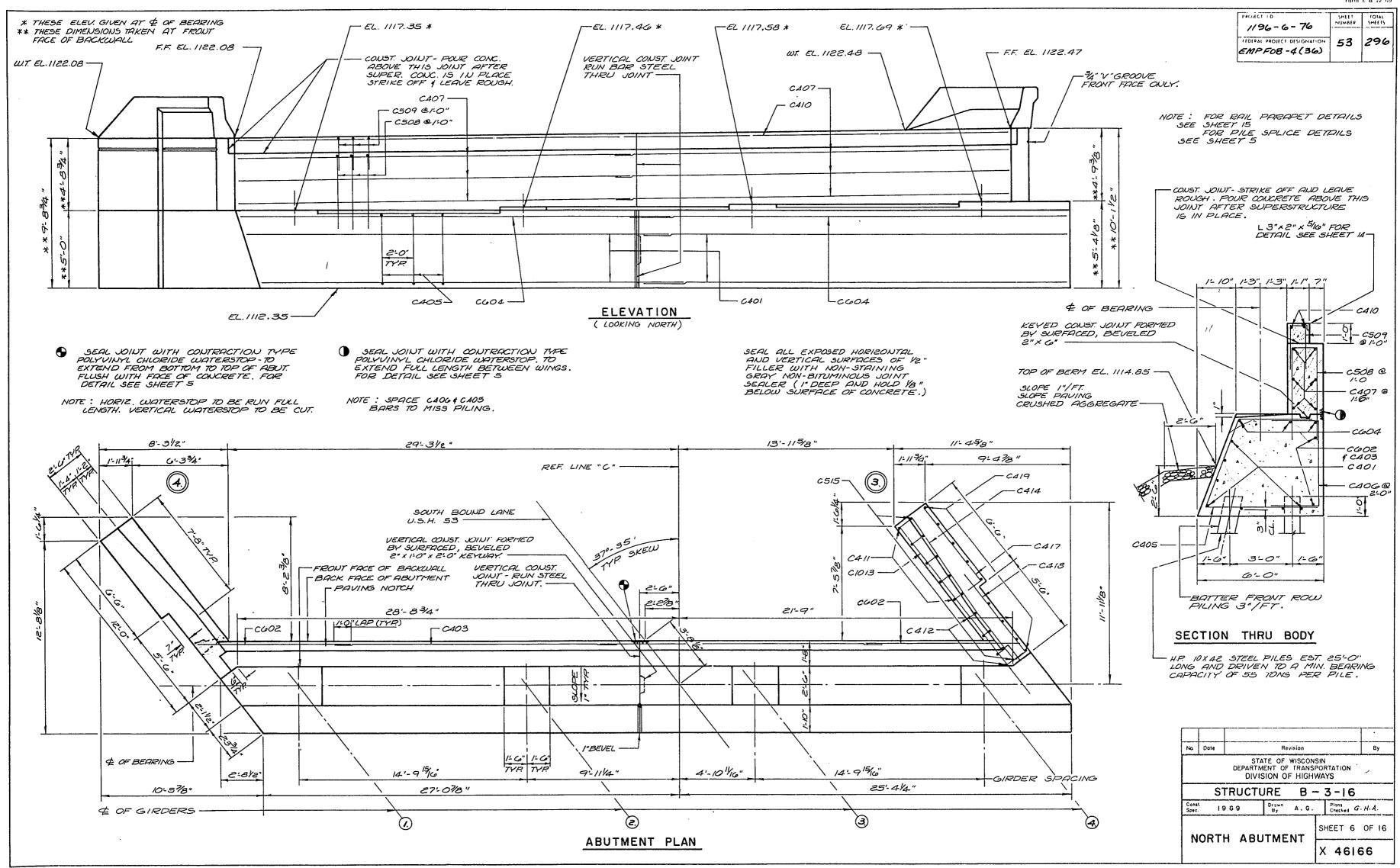
SHEET 2 OF 16

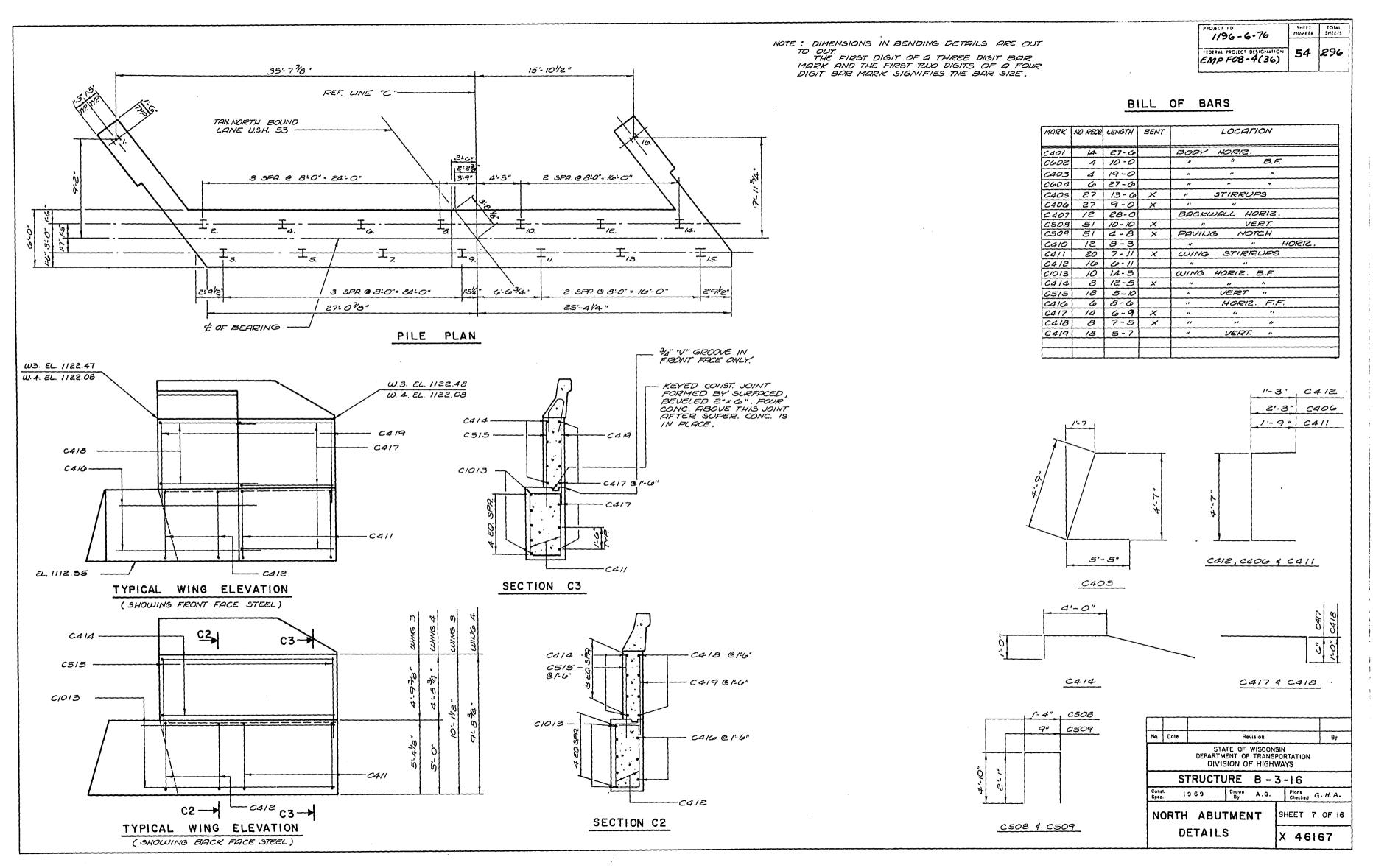
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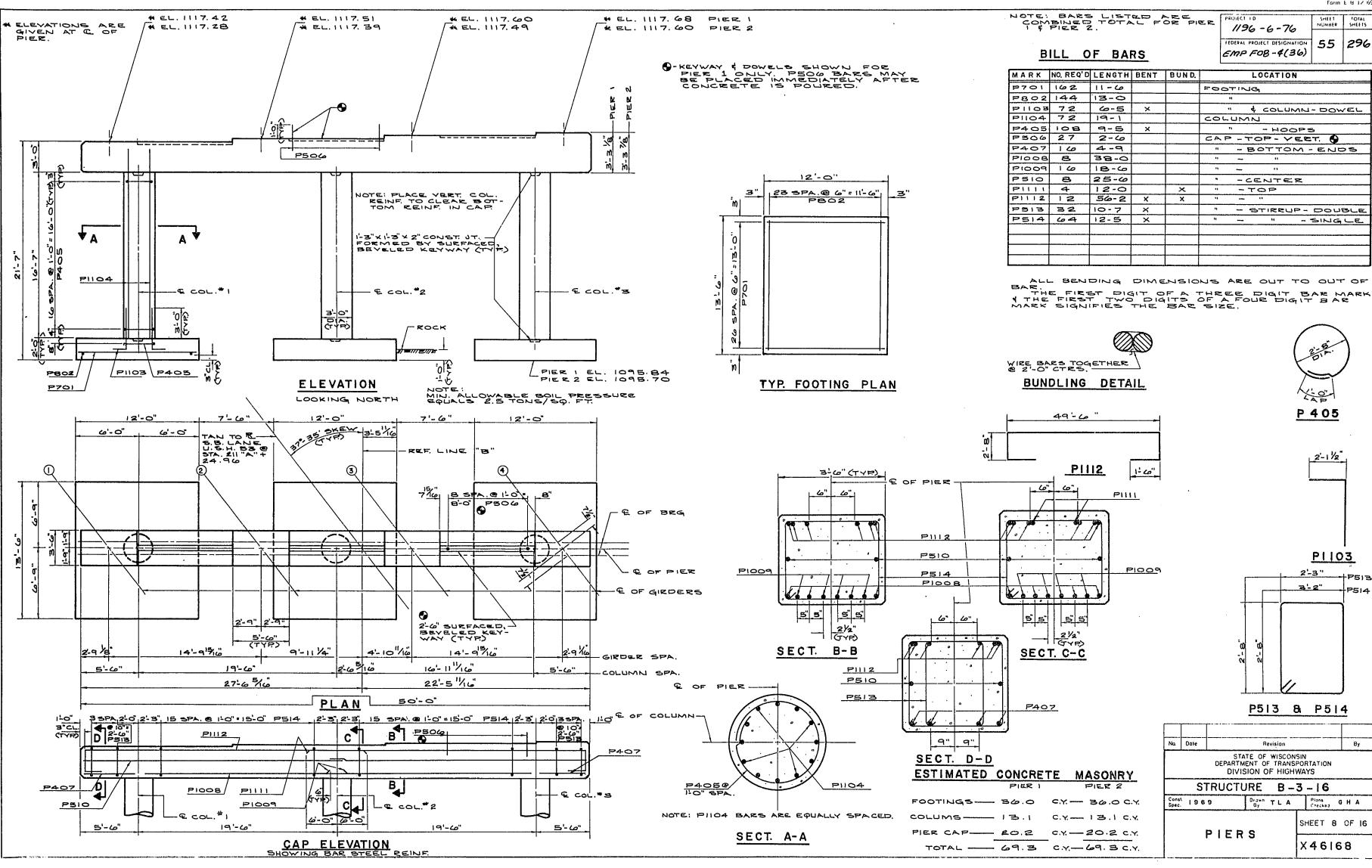


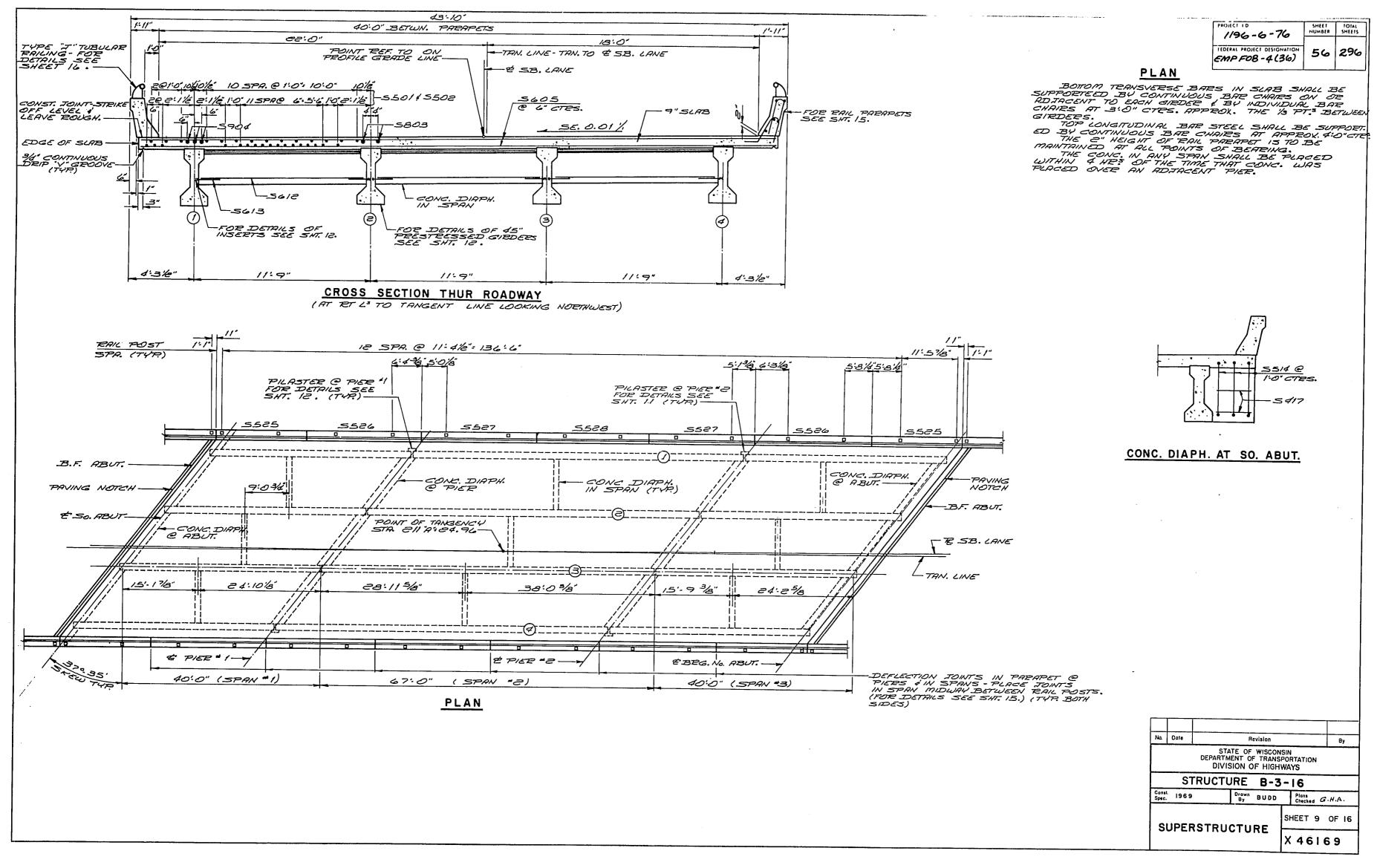


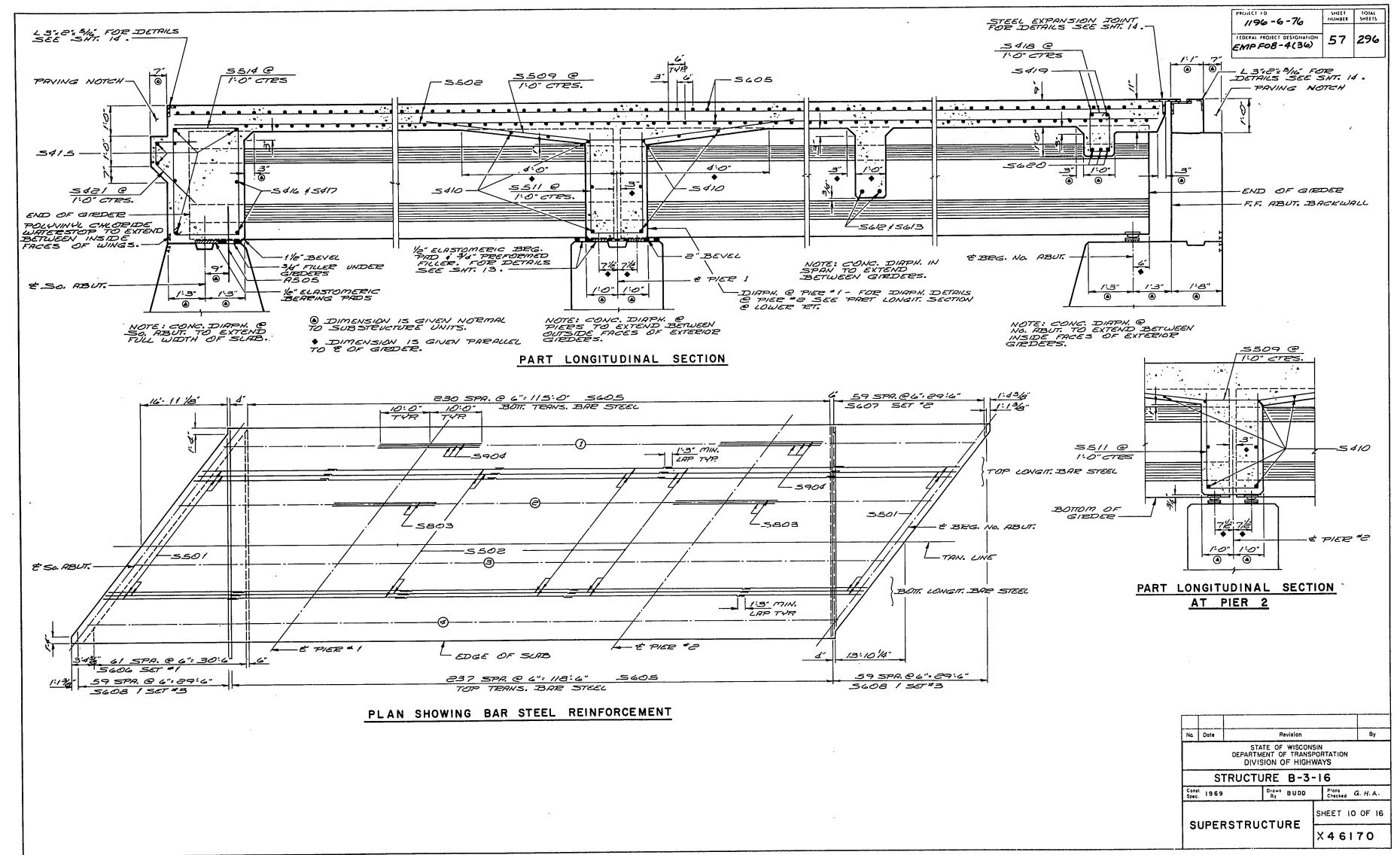


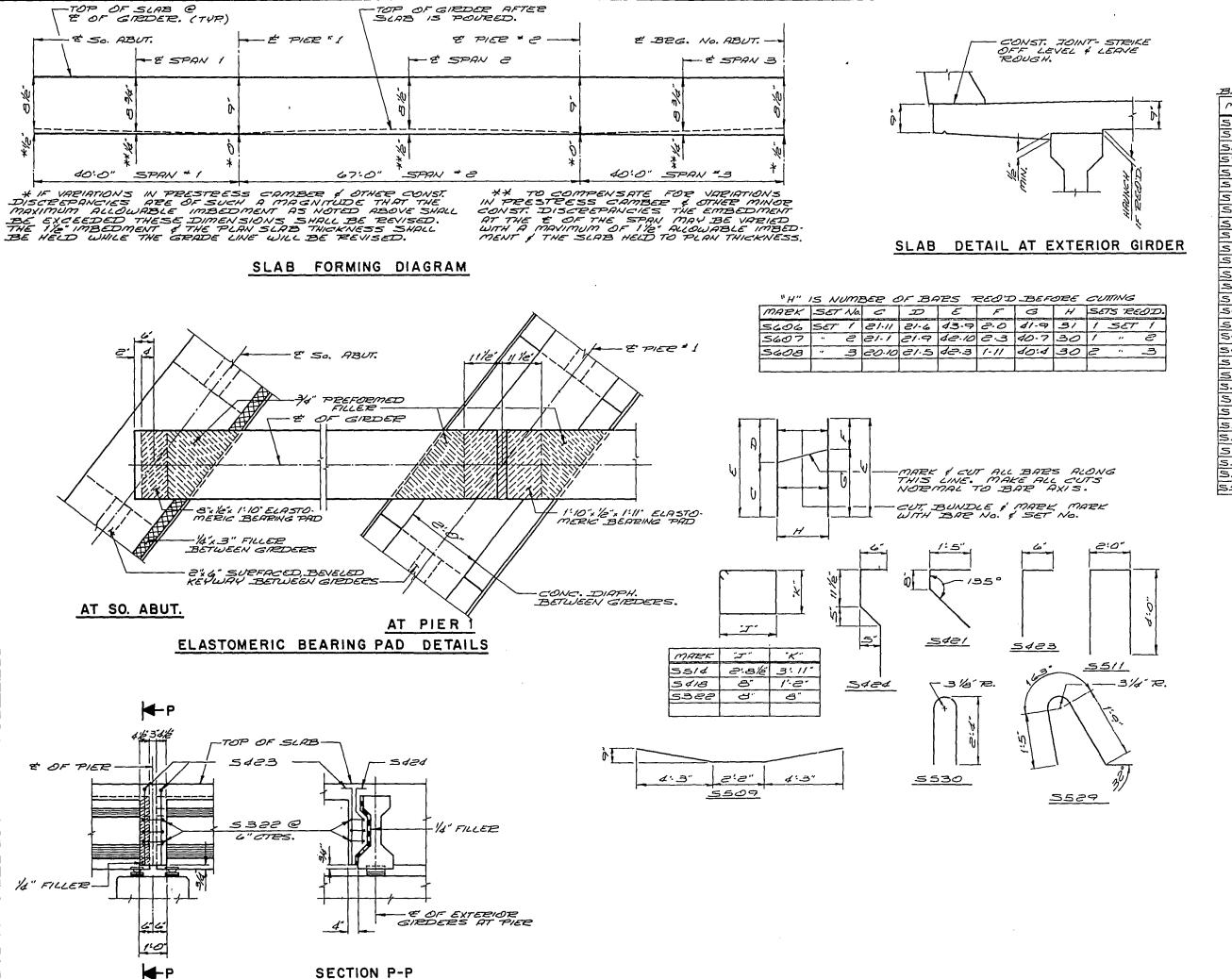












PILASTER DETAILS AT PIER

PROJECT 10

1/96-6-76

SHEET SHEETS

NUMBER SHEETS

FEDERAL PROJECT DESIGNATION

58

296

EMP FO8-4(36)

BILL OF BARS

DIMENSIONS ARE OUT TO OUT OF BAR.
THE FIRST DIGIT OF A 3 DIGIT BAR MARK SIGNIFIES THE
BAR SIZE.

MARK	NO. REOD.	LENGTH	BENT	CUT. DIA.	LOCATION	
5 <i>501</i>	174	24.9			SLAB TOP & BOT.	LONGI
5 <i>502</i>	261	35.0			17 B • P	"
5803	8	20.0			" · CPIER GIRD. 2;3	
5904	12	20.0				
56 <i>05</i>	469	12-4			" " & BOT.	TEANS.
5606	3/	43.9		×	" BOT. SET !	
5607	30	42.10		X		"
5608	60	12.3		×	, TOP " 3	•
5509	66	10-10	X		" HRUNCH @ PIER	LONGIT.
5410	60	12.3			n 11 11 11	TEANS.
S51/	66	9.9	×		• " "	
5612	18	10-10			DIAPH. @ MID SPAN	*
56/3	36	2.0	,		" " THEEAD ONE	· ·
5514	36	14-0	X		" " So. ABUT.	
5415	14	27.3			W	,
5416	6	12.2			N 11 m N	11
5417	4	3-1			" " " "	"
54/B	33	P.	X	[" " No. "	
5419	6	14.9		· ·	H 11 41 4	*
5 <i>620</i>	9	/3-3			4 11 11 11	
5421	-51	3-11	X		PAYING NOTCH	
s <i>322</i>	12	3-2	X		PILASTER O PIER	
S423	ප	4-4	X		" "	YERT.
5424	ප	_3-4	×		" "	
55 <i>25</i>	20	17-6			RAIL PARAPET	HORIZ.
5526	20	23-0			. "	"
5527	20	21.9			" "	
5528	10	22.5			, ,	4
5.529	298	5.0	×		• "	VERT.
5530	298	4.9	X			,,

Na Date Revision By

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-3-16

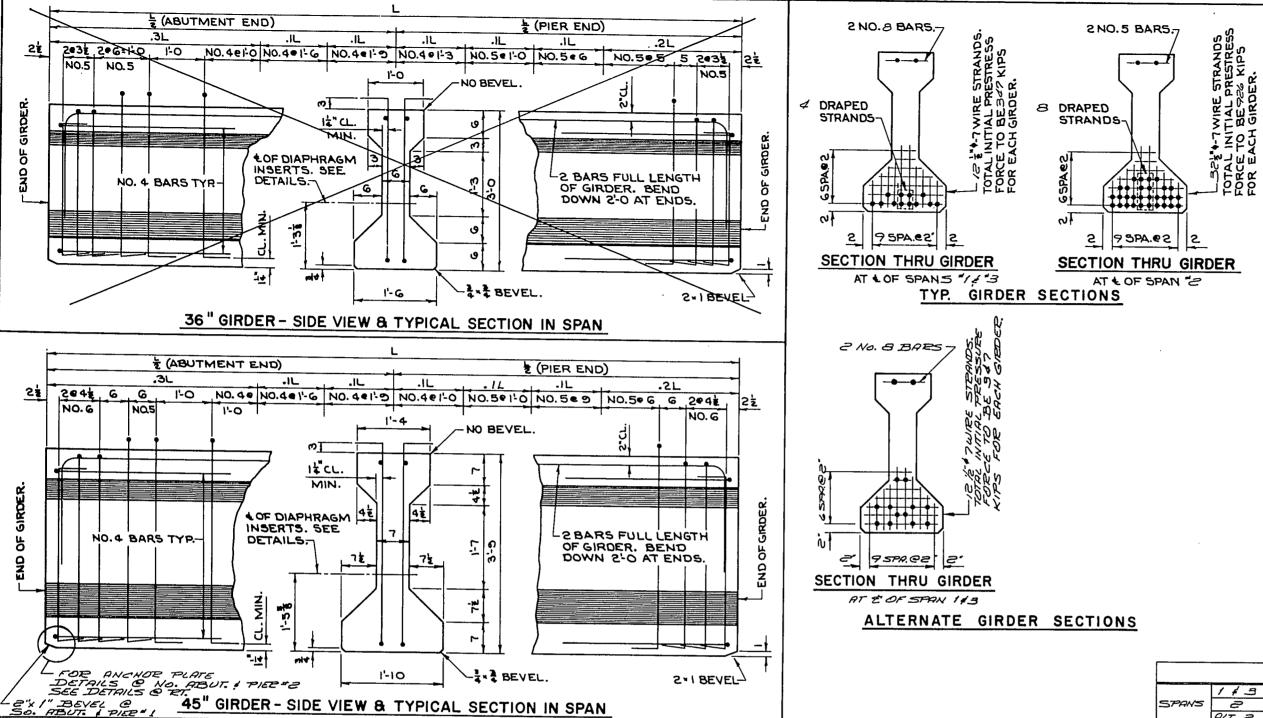
SIRUCIURE B-3-16

Const. 1969 Drawn BUDD Plans Checked G. H. A.

SUPERSTRUCTURE

X 4 6 1 7 1

SHEET II OF 16



1<u>-</u>0

4 3 4 2

NOTES

B. P. R. Division	Project	Sheet Number	Total Sheets
	1196-6-76		204
4	EMP F08-4(34)	<i>5</i> 9	276

TOP OF GIRDERS TO BE ROUGH FLOATED AND BROOMED TRANSVERSELY FOR BONDING TO THE SLAB.

THE GIRDER MANUFACTURER SHALL PROVIDE A SUITABLE LIFTING DEVICE FOR HANDLING AND ERECTING THE GIRDERS.

ALL GIRDERS SHALL BE CAST FULL LENGTH AS SHOWN.
PRESTRESSING STRANDS SHALL HAVE AN ULTIMATE STRENGTH OF
270,000 pai AND SHALL BE FLUSH WITH THE ENDS OF THE GIRDER.
INSERTS SHALL BE PLACED ON G" CENTERS SYMMETRICALLY ABOUT
THE & OF DIAPHRAGMS IN SPANS.

ALL STIRRUPS SHALL BE IN PAIRS AND THE SPACING SHOWN IN "SIDE VIEW" IS MAXIMUM. THE LOCATION SHALL BE SHOWN IN THE SHOP DRAWINGS BEND EACH END OF NO.4 AND NO.5 STIRRUPS 6" AND NO.6 STIRRUPS 62".

ENDS OF STRANDS SHALL BE PAINTED WITH NON-STAINING GRAY NON BITUMINOUS JOINT SEALER. (THIS APPLIES

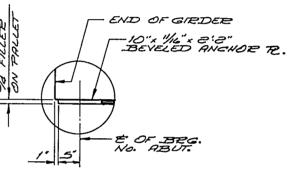
ONLY TO THOSE ENDS OF GIRDERS THAT ARE FINALLY EXPOSED.)

TOP LONGITUDINAL BARS IN GIRDER MAY BE SPLICED BY USING 35

BAR DIAMETER LAPS. PLACE ONE LAP AT & OF GIRDER IF LENGTH IS

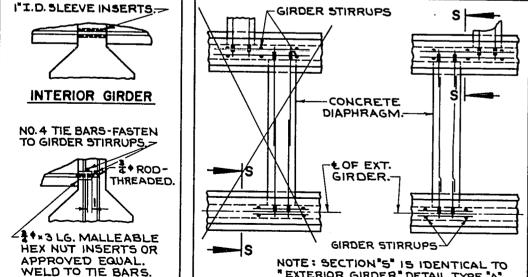
< 70-0. PLACE LAPS AT THE 3 RD POINTS OF GIRDER IF LENGTH IS

> 70-0.



NO. ABUT. 8 PIER 2

		'A"	MAX.	min.	.c.,
SPANS	1/3	''وحے	16"	/31	3"
	2	30.	14 3/4	11 3/4"	5*
	ALT. 2	35	1434	1134	4-



EXTERIOR GIRDER

TYPE "A"

NOTE: SECTION'S' IS IDENTICAL TO
"EXTERIOR GIRDER' DETAIL TYPE A'.

PLAN
TYPE B"
TYPE C"

DIAPHRAGM INSERT DETAILS

OUTSIDE FACE.

SAZZ

JECL.

SAZZ

JECL.

SAZZ

JECL.

SAZZ

JECL.

SAZZ

JECL.

SAZZ

POSTILLER.

PILLER.

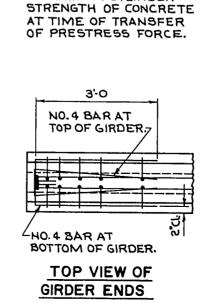
PILASTER DETAIL AT PIERS

TOP OF SLAB.

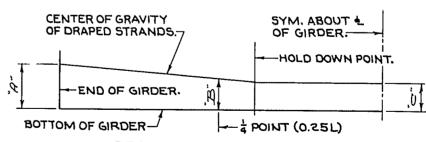
-END OF GIRDERS.

LOF EXT.

GIRDER

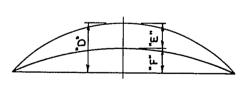


* MINIMUM CYLINDER



DRAPED STRAND PROFILE

GIRDER DATA							
	GIRDER SIZE REQ	UIRED	45	ALTEE	NATE		
	SPANS	143	2	143			
GIRDER LE	NGTH "L" REQUIRED	40:46	66:9"	40:16			
0-: (:)	DRAPED PATTERN	4,800	5,000	4.800			
fici (psi)	SPREAD PATTERN	4,800	5,000	4,800			
DEE! 5.571011	PRESTRESS CAMBER "D"	1/4"	15/3"	14"			
DEFLECTION DATA * *	DEAD LOAD DEFLECTION "E"	//s"	/"	1/8"			
7.7	RESIDUAL CAMBER "F"	/s"	5∕8″	1/e"			
US	E DIAPHRAGM INSERT	DETAIL		"~"			

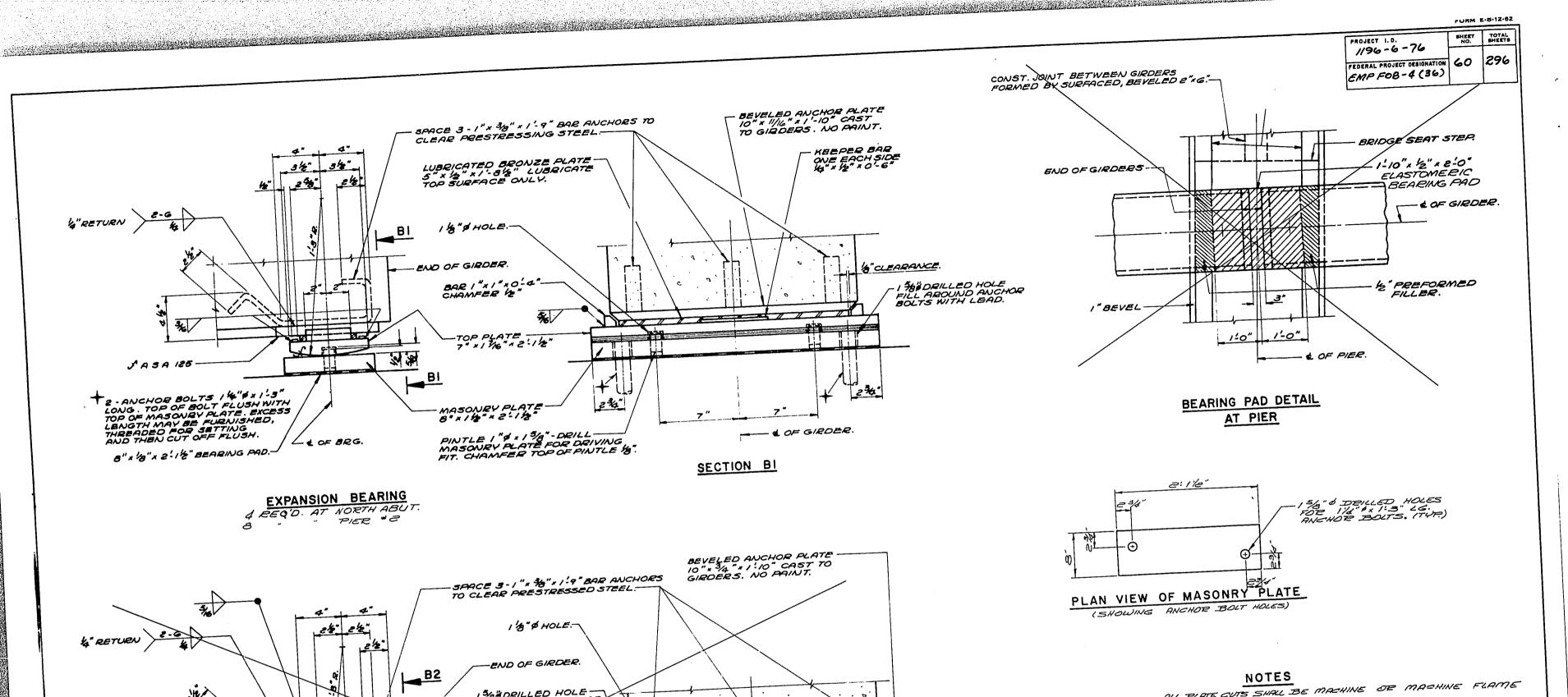


** DATA SHOWN IS THEORETICAL AND MAY VARY WITH CONCRETE STRENGTH, VARIABLE PRESTRESS CONDITIONS AND PRESTRESS LOSSES.

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STRUCTURE B-3-16	No.	No. Date Revision						
STRUCTURE B-3-16	DEPARTMENT OF TRANSPORTATION							
			DIVISION OF HIGHWAIS					

PRESTRESSED GIRDER DETAILS

SHEET 12 OF 16 X 46172



ALL PLATE CUTS SHALL BE MACHINE OF MACHINE FLAME

ALL PLATE CUTS SHILL DE MACHINE

CUTS.

ALL SUPFACES MARKED & SHALL BE MACHINE

FINISHED, BY AN AUTOMATIC PROCESS.

ALL MATERIAL EXCEPT ANCHOR BOLTS SHALL BE MADE OF

ALL MATERIAL EXCEPT ANCHOR BOLTS SHALL BE MADE OF

ALL STRUCTURAL EXCEPT BRONZE PLATES, BEARING

ALL BEARING MATERIAL EXCEPT BRONZE PLATES, BEARING

PADS, AND ANCHOR PLATES SHALL BE PAID FOR AT THE UNIT

PRICE BID FOR "STRUCTURAL LOW ALLOY STEEL"

ALL STRUCTURAL STEEL PLATES SHALL BE FLAT ROLLED

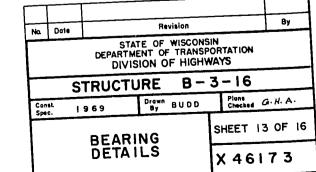
ALL STRUCTURAL STEEL PLATES SHALL BE FROM

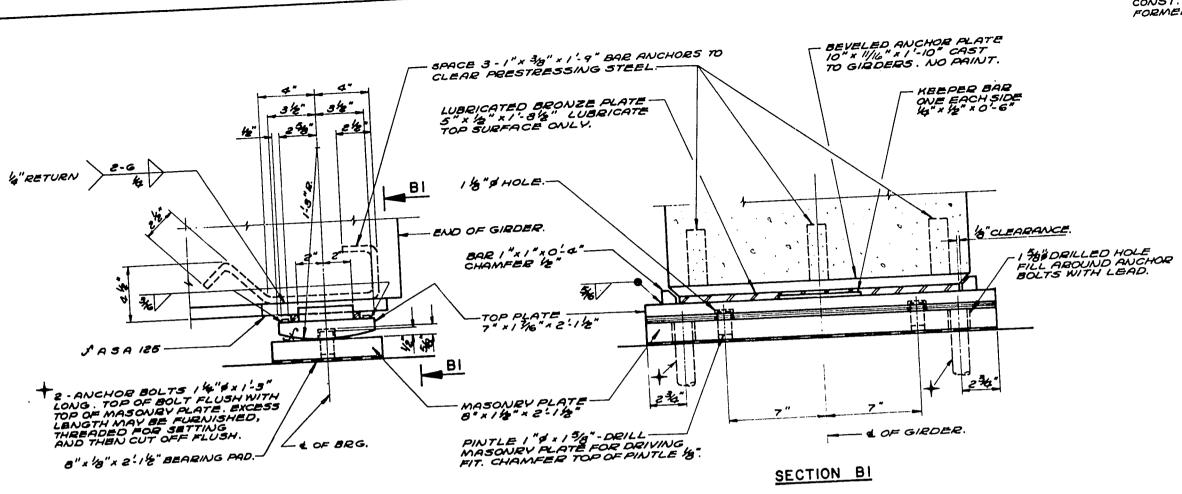
PRICE BID FOR STRUCTURAL LOW ALLOY STEEL.

ALL STRUCTURAL STEEL PLATES SHALL BE FLAT ROLLED

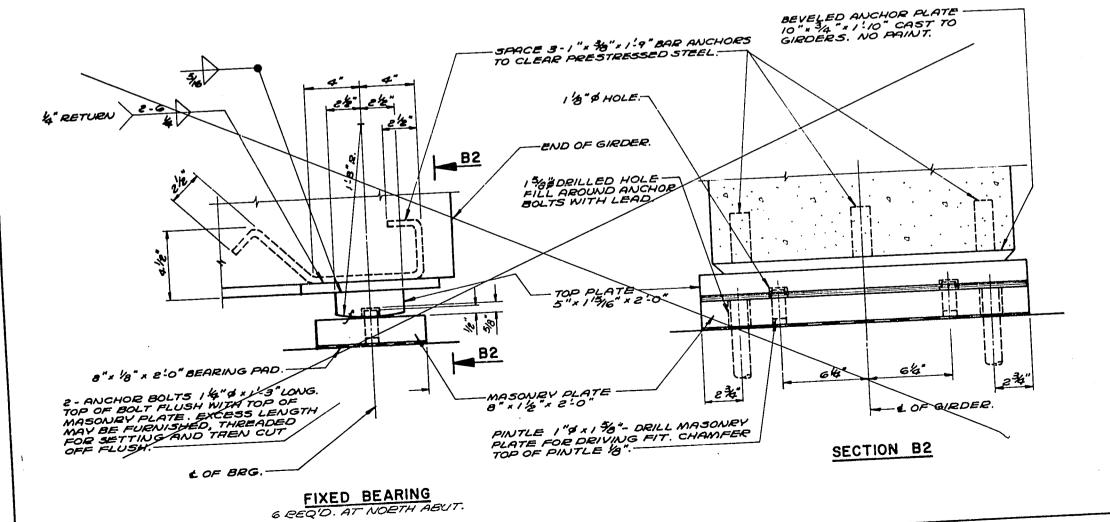
STEEL PLATES WITH ALL SURFACES SMOOTH AND FREE FROM

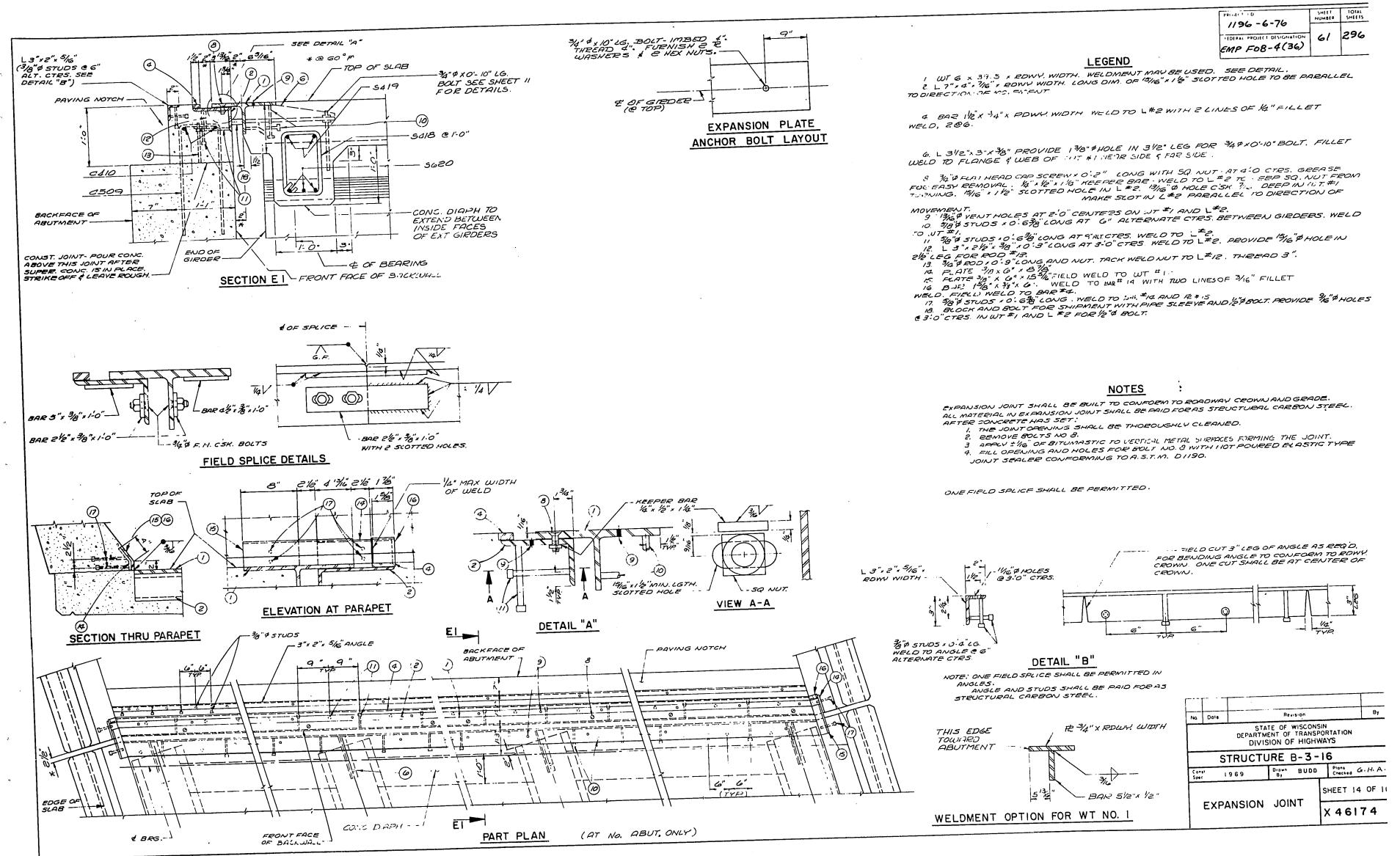
WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL.

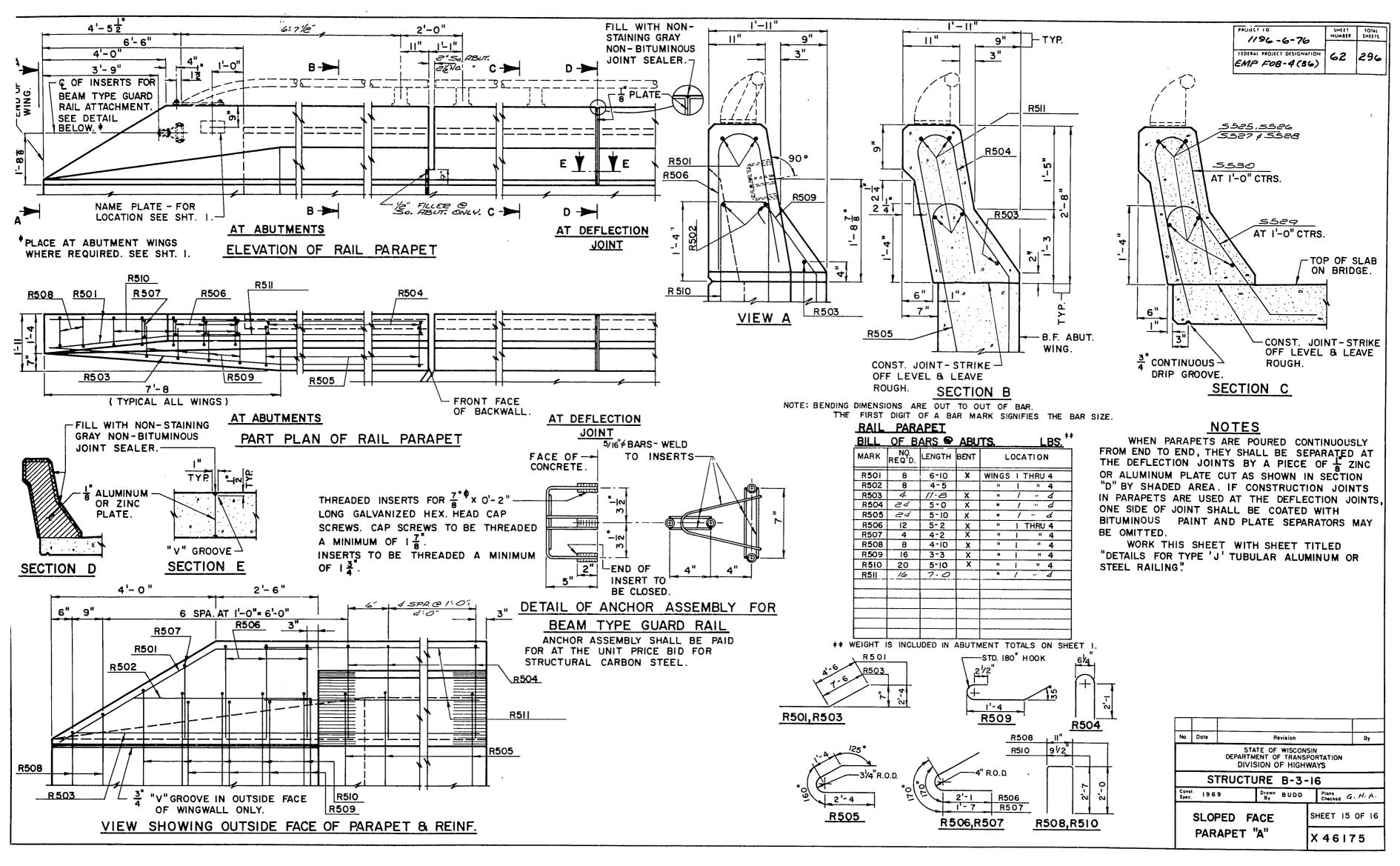


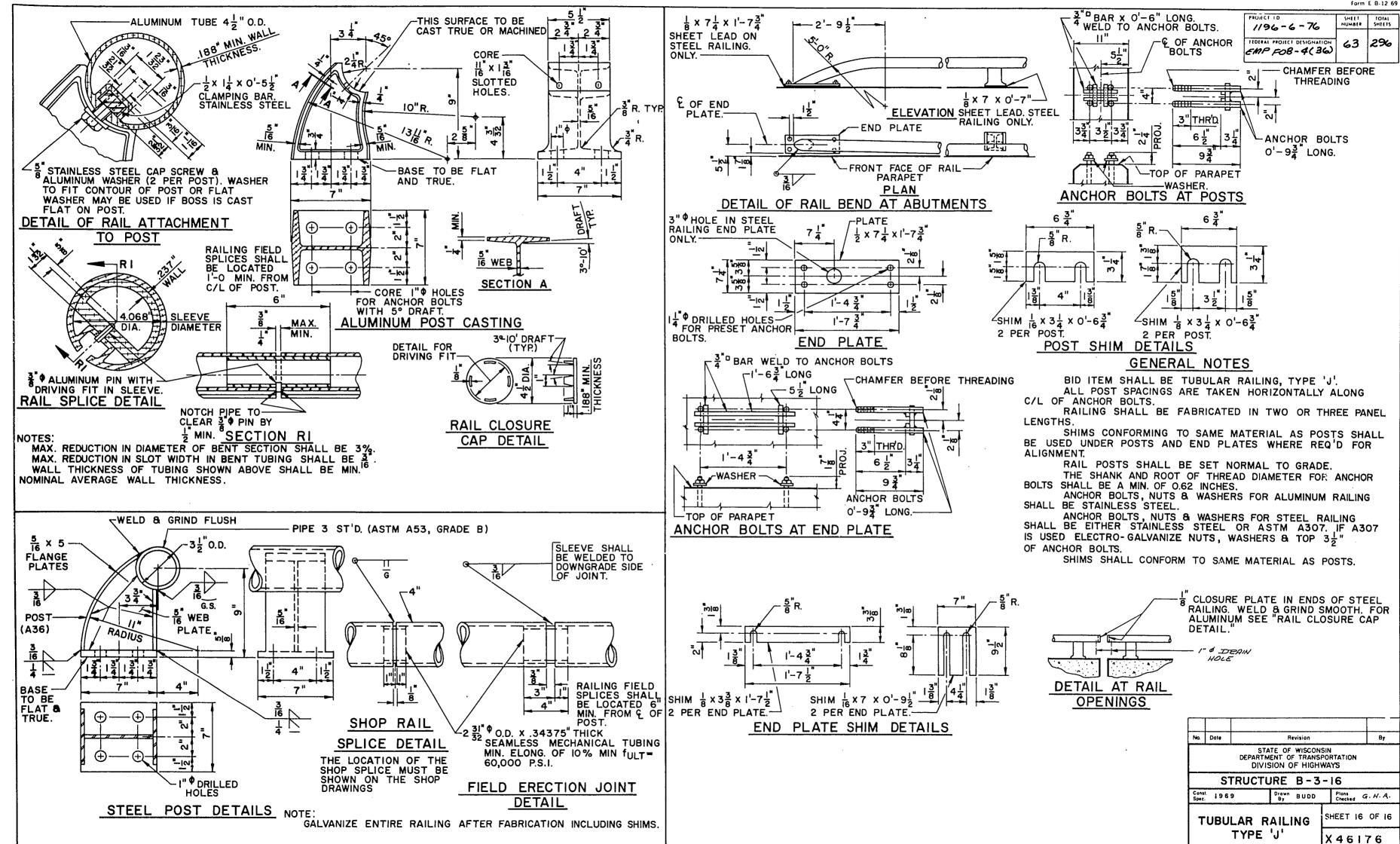


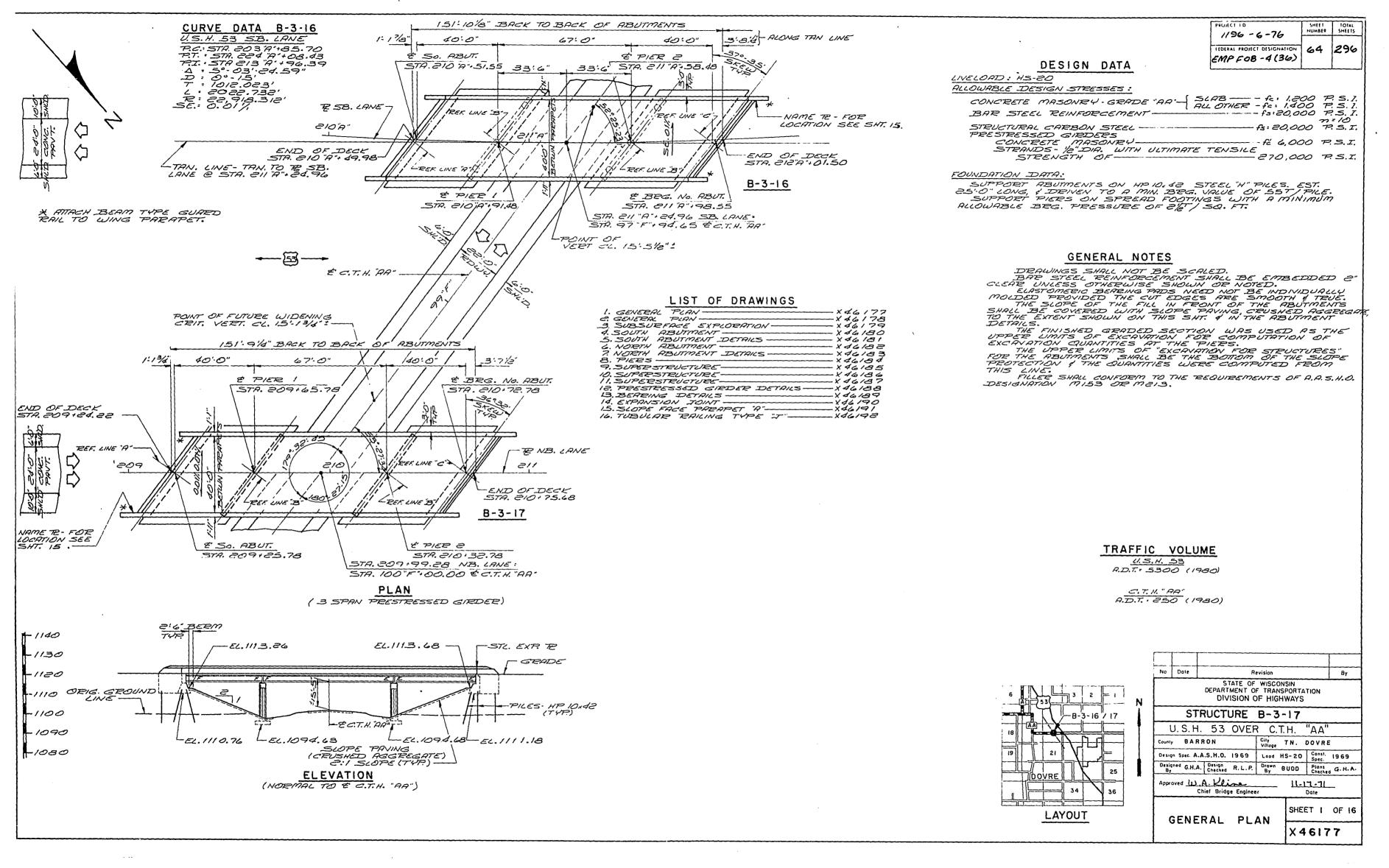
EXPANSION BEARING 4 REQ'D. AT NORTH ABUT. PIER * 2











//96 - 6-76	SHEE! NUMBER	TOTAL SHEETS
FEDERAL PROJECT DESIGNATION EMP FOB - 4(36)	65	296

43:10	· · · · · · · · · · · · · · · · · · ·
1311" 40" BETO	UN. PAPAPETS 1:11"
18:0"	22:0°
9" SLAB 20.01%	POINT REF. TO ON PROFILE GRADE LINE 0.01%
	45" PEESTEESSED GIRDEES.
1:3/E 3 SPA. @ 11	· 9 · 35 · 3 · 4 · 3 /e"
LEU FTG? A MIN. OF 1:0" INTO SOUND FOCK	
×××××××××××××××××××××××××××××××××××××××	

CROSS SECTION THRU ROADWAY LOOKING NORTHWEST

RESTESSED GREDES, TYPE 05 (1.00 e.700 200 2.700 2.700 2.700 (1.000 1.000	PESTRESSED GIRDERS, I TYPE 4	<u> </u>	1 2 2 2	2200		22.10	3.730	124,700
TRUNTURAL LOW RILLY STEEL LESS 2.070	BOP STEEL REINFORCEMENT	[225.]		2,700				3,720
TRELETURAL LOW RICHY STEEL 285. 190	STPINTUPAL CARBON STEEL		3,700	- <u></u>				2.070
UBELICATED BRONZE PLATES 5.5. 17	TENTUERL LOW ALLOY STEEL		_					
SEPENDE PADS, ELRSTOMERIC S.F. 19 10 395 SEPENDE PADS, ELRSTOMERIC S.F. 19 10 395 STEEL PILING, DELIVERED & L.F. 330 300 DENIVEN HP 10 46 20 332 DELIVER PANING, TYPE 'I' L.F. 330 332 DELIVER PANING, CRUSHED RESPECTES, Y. 330 332 SLOPE PANING, CRUSHED RESPECTES, Y. 355 300 NON-BID ITEMS S.F. 35 35 35 35 SUMMINUM OF ZINC PLATE S.F. 35 35 35 FILLER SEE 35 35 35 35 SING SING SING SING SING SING SING SING	UBRICATED BRONZE PLATES							17
DERRING PADS, ELASTOMERIC S.P. 410 395 805 STEEL PILING, DELIVERED & L.F. 400 — 338 DERVEN MP 10, 42 UBULAR RAILING, TYPE T' L.F. 332 UBULAR RAILING, CRUSHED REGREGATE S.Y. — 253 — 255 508 SLOPE PAVING, CRUSHED REGREGATE S.Y. — 253 — 255 508 NON-BID ITEMS RUMINUM DE ZINC PLATE S.F. 35 — — 35 RUMINUM DE ZINC PLATE S.F. 35 — — 35 FILLEE SIZE — 156 1	FORING PRODS							19
STEEL PILNG, DELIVERED . L.F. 330	SEARING PADS, ELASTOMERIC	\ <u>S.F.</u>	1-7-	1000			395	805
DEPLIER PAULIS, TYPE T' 2.F. 332 352 SLOPE PAVING, CRUSHED REGREGATES, V 353 352 SLOPE PAVING, CRUSHED REGREGATES, V 353 352 NON-BID ITEMS RUMINUM DE ZINC PLATE 5.F. 35 35 35 35 35 35 35 35 35 35 35 35 35	TEEL PILING DELIVERED &			4/0		l	100	صمع
NON-BID ITEMS NON-BID ITEMS AUDINIVAM DE ZINC PLATE S.F. 35 — 35 AUDINIVAL CHLOEDE WATERSTOP L.F. 55 — 1/4 FILLER SIZE	TORNIFAL HP OX 95			400				
NON-BID ITEMS NON-BID ITEMS S.F. 35 — 35 RUMINUM BEZINC PLATE SIZE — 59 11d SIZE — 1/2/8/8/134 FILLER SIZE — 1/2/8/8/134 SIZE — 1/2/8/8/134	VALUAT PAILING, TYPE A		 	3.5.3			255	
NON-BID ITEMS S.F. 35 — — 35 RUMINUM DEZINC PLATE S.F. 35 — — 35 ROWNING CHIORDE WATERSTOP L.F. 55 — 59 III S FILLER SEE — SEE	SUPPE PAVING, CRUSHED AGGREG	eate 5.4.		622		 		
NON-BID ITEMS QUININUM DEZINC PLATE S.F. 35 — 35 QUININUM DEZINC PLATE S.E. 35 — 59 11 d QUININUK CHLORIDE WATERSTOP L.F. 55 — 1/4/2/6/13/1 FILLER SE C C C C C C C C C C C C C C C C C C C				ļ		 		
NON-BID ITEMS SILVININUM DE ZINC FLATE SILVINI				<u> </u>				
SECONDATE STOP L.F. SS SECONDATE WATERSTOP L.F. SIZE SECONDATE SIZE SECONDATE SIZE SECONDATE SIZE SECONDATE SIZE SECONDATE SIZE SECONDATE SECONDAT						-		
SECONOMINATE PLATE STATE STA					ļ	<u> </u>	 	
SE S				<u> </u>	<u> </u>			·
SECONDATE SECOND	NOW-BID ITEMS			J	<u> </u>			35
SECULIANTE CHICARDE WATERSTOP 2.1. SIZE	DUMANUM MEZING PLATE	S.F.	35				60	
26.60°455 36.95°74.35.35 36.55°39.35 36.55°39.35	CONTINUE OU OPIDE WATERSTOF	> 2.F.		55			1 3 7	
44'-09.35 3.2097774.35 7.55.53	OLOVINGE CALORIDE WITH							18:18:14
	209.35 E.209.35	<i>(25.</i> 53		6,89,7				
POLICE PROPERTY OF THE PROPERT	+ = · 0 × 2 × 3 × 3 × 3 × 3 × 3 × 3 × 3 × 3 × 3	; : 39 C2. /	88 88 88 88 88 88 88 88 88 88 88 88 88	777. STR. 6 56. 1/21.	<u>0.e</u> %	•		
TE SB. CANE— (1)30' V.C. (B) S S S S S S S S S S S S S S S S S S S	C is	EL. 1. 36 E. 7. 2. 7. 36 S. 7. 2. 7. 36 C. 7. 7. 2. 7. 36 E. 7. 7. 2. 7. 36 E. 7. 7. 2. 7. 36	(557, 7, 28.49) (52, 7, 22. 26.40) (7, 27.28.40, 138.07. (8, 27.48.40) (52, 7, 28.40) (53, 27.48.40) (6, 28.40) (7, 28.40)			•		
STR. SO. AT STR. SO. AT STR. SO. AT STR. SO. AT STR. S. NO. A. S. STR. S. NO. A. S. S. S. STR. S.	n in	## # PIER STH. 2107 CK. 1/22	577.21/782.6 EL.//82.6 STR.21/77.	(23-3-16		•		

NORTHBOUND LANE (B-3-17)

PROFILE GRADES U.S.H. 53

TOTAL ESTIMATED QUANTITIES

BID ITEMS

PRESTRESSED GIRDERS, I TYPE 45" BAR STEEL REINFORCEMENT

尼NB. CANE 1150' V.C.

EXCAVATION FOR STRUCTURES

CONCRETE MASONRY

UNIT SUPER. SO. ABUT, PIER 1 PIERS NO. ABUT.

265.8 60.0 69.1

150

 C.F. 590
 —
 13,5%
 13,5%
 590

 LBS. 61.120
 2,700
 22.50
 3,730
 12.750

 LBS. 3,720
 —
 —
 3,720

10.0%

150

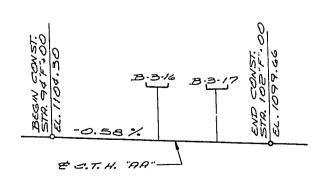
69.1

50

TOTAL

920 556.0

395



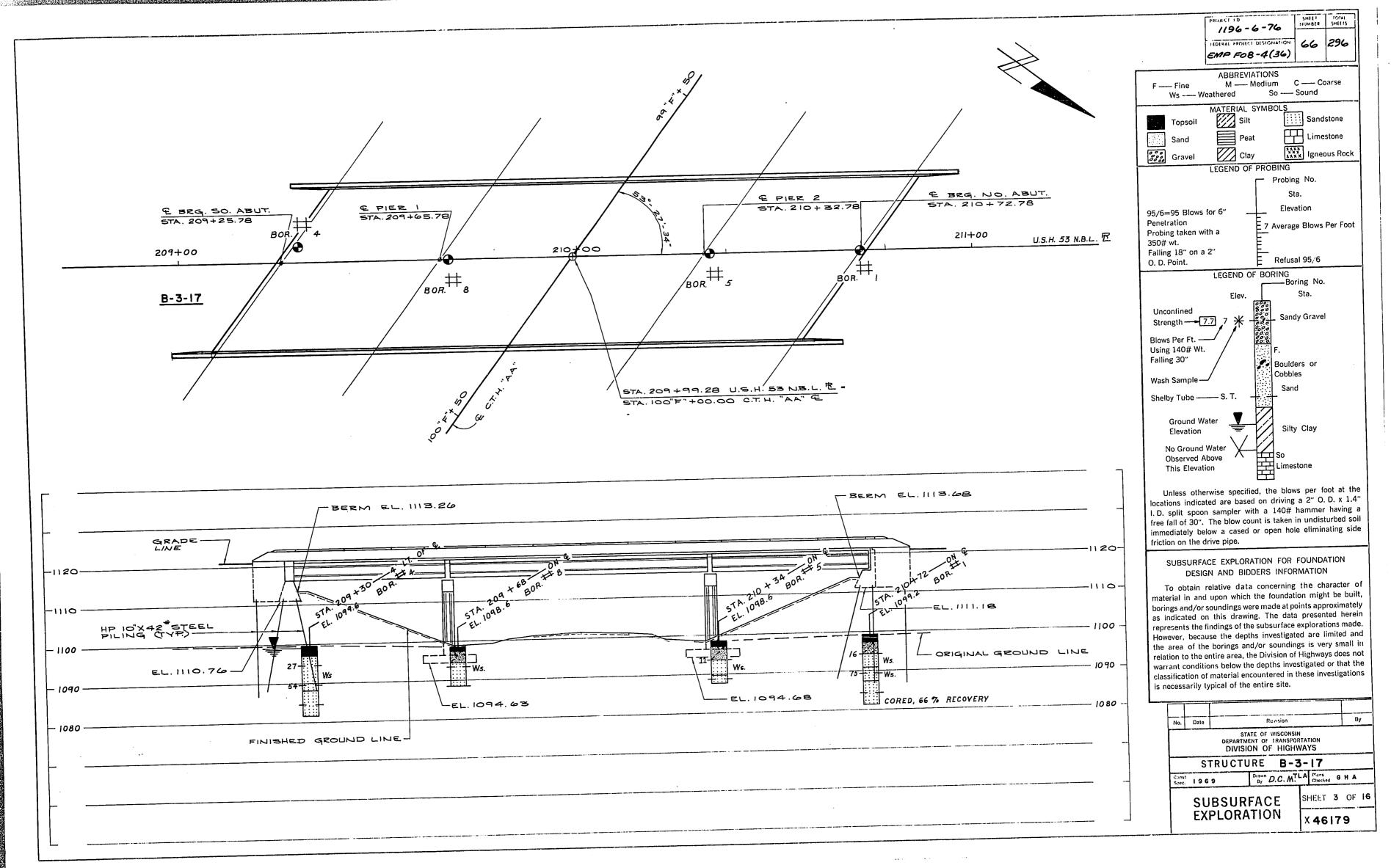
PROFILE GRADE C.T.H. "AA"

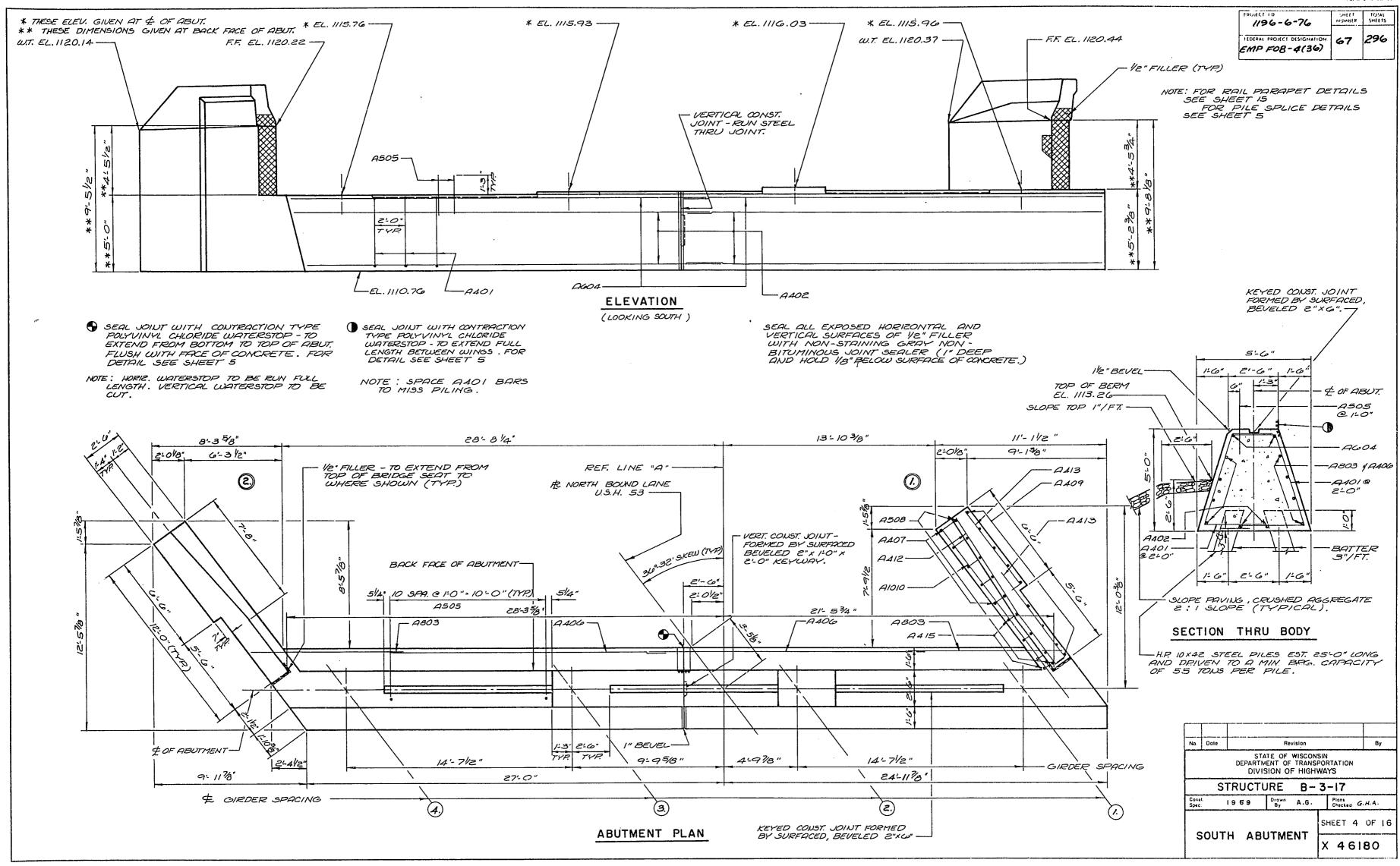
No Date Revision STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STRUCTURE B-3-17 Diawn BUDD Plans G. H. A. Const | 969

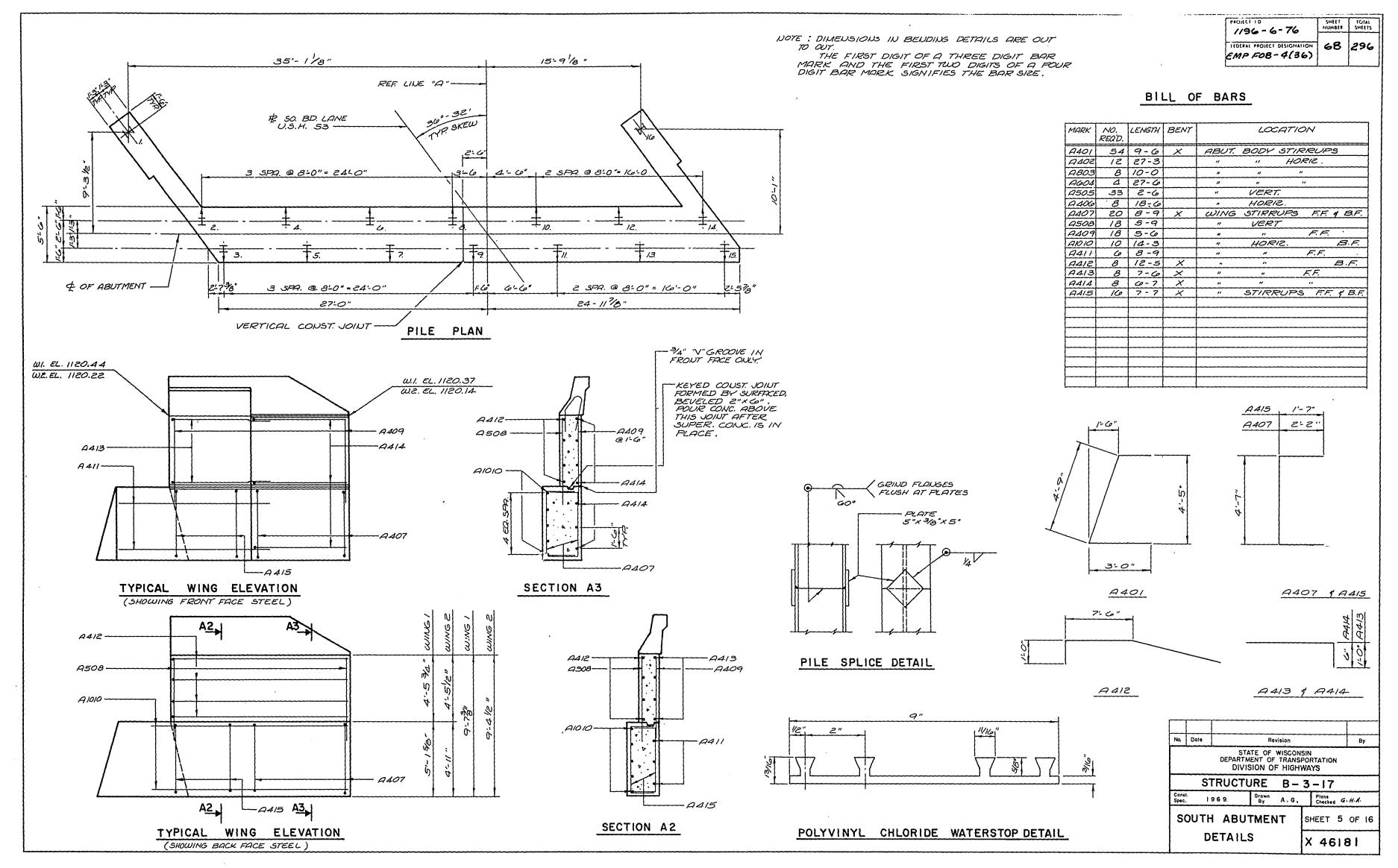
GENERAL PLAN

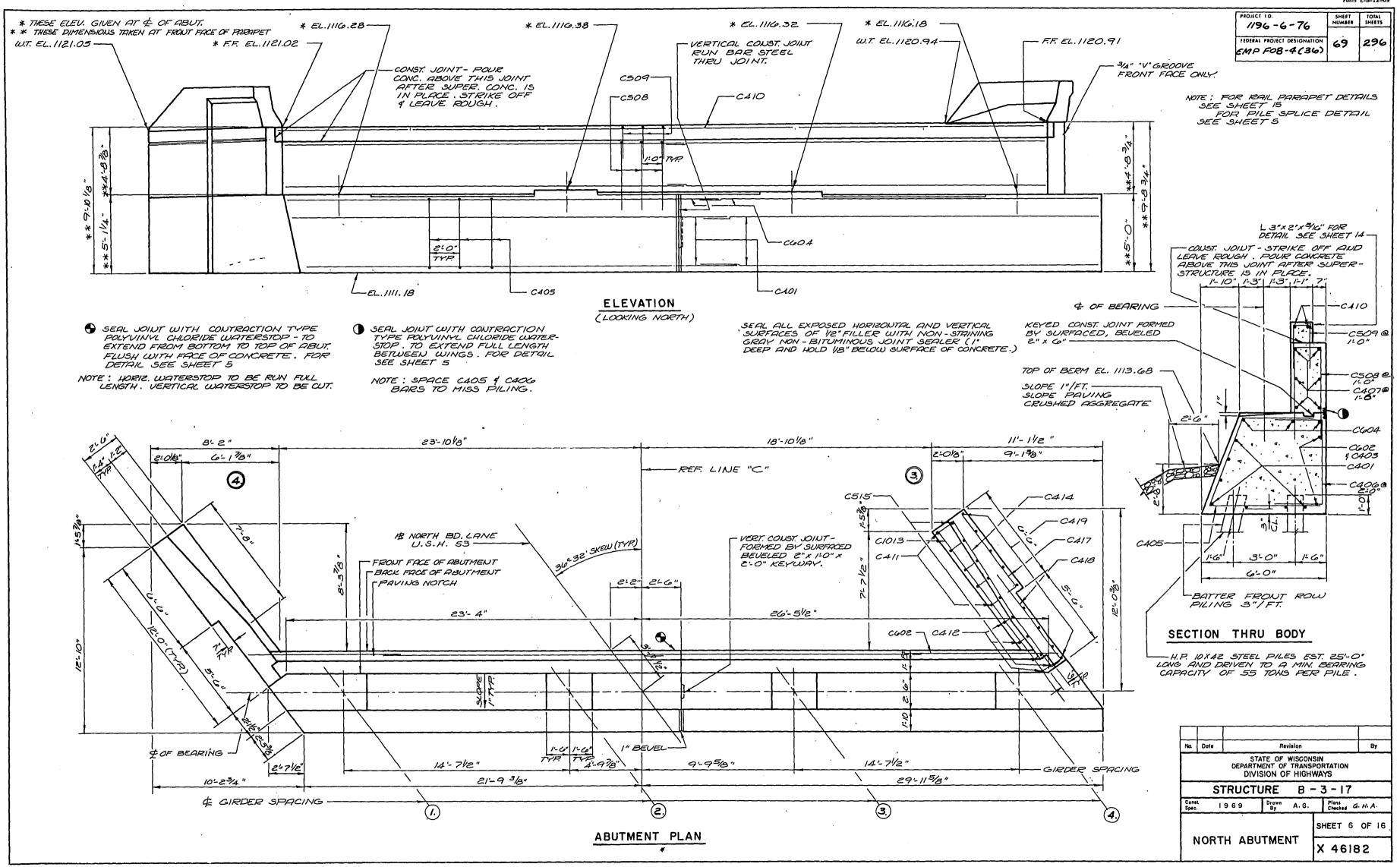
X46178

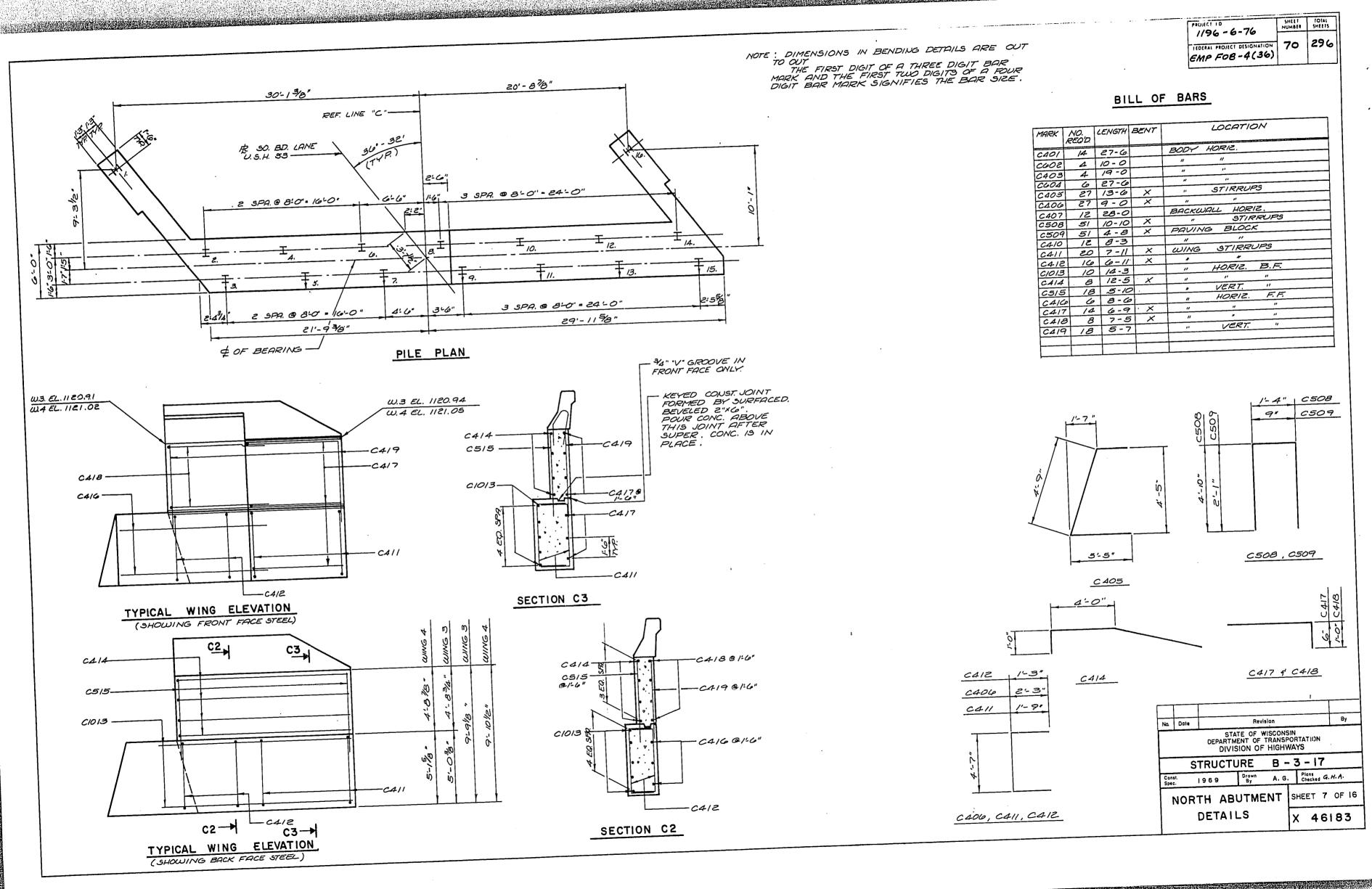
SHEET 2 OF 16

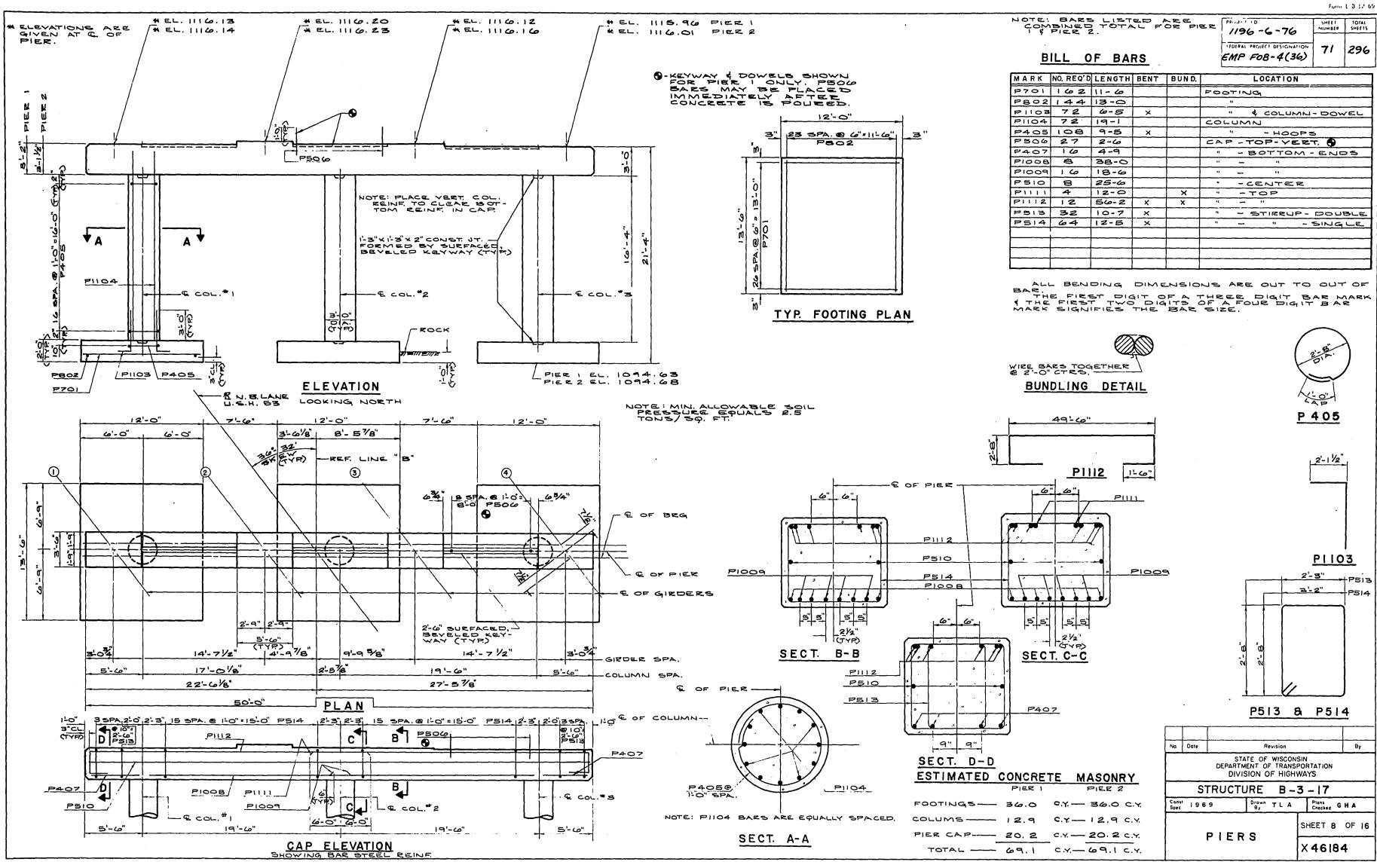


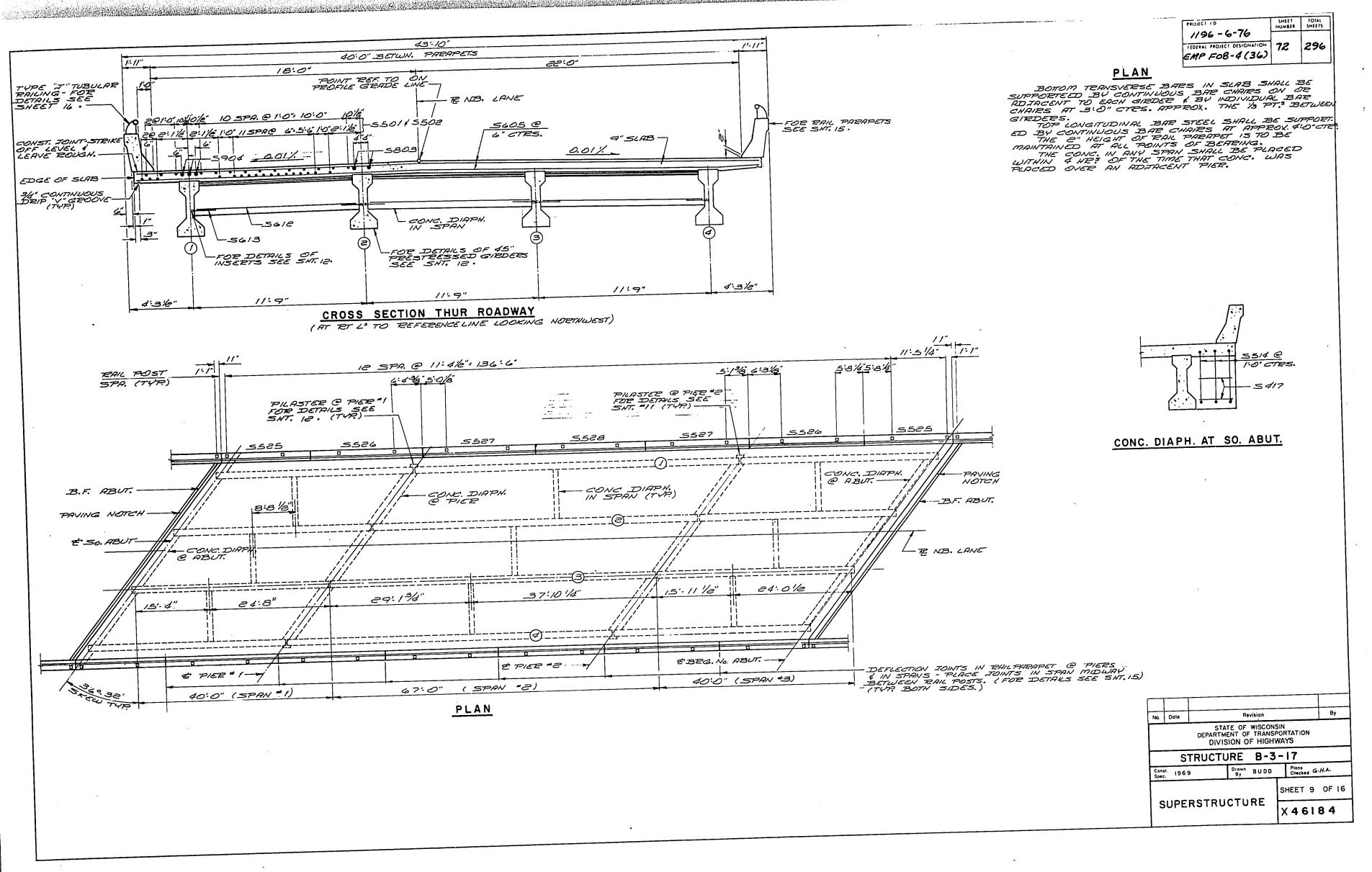


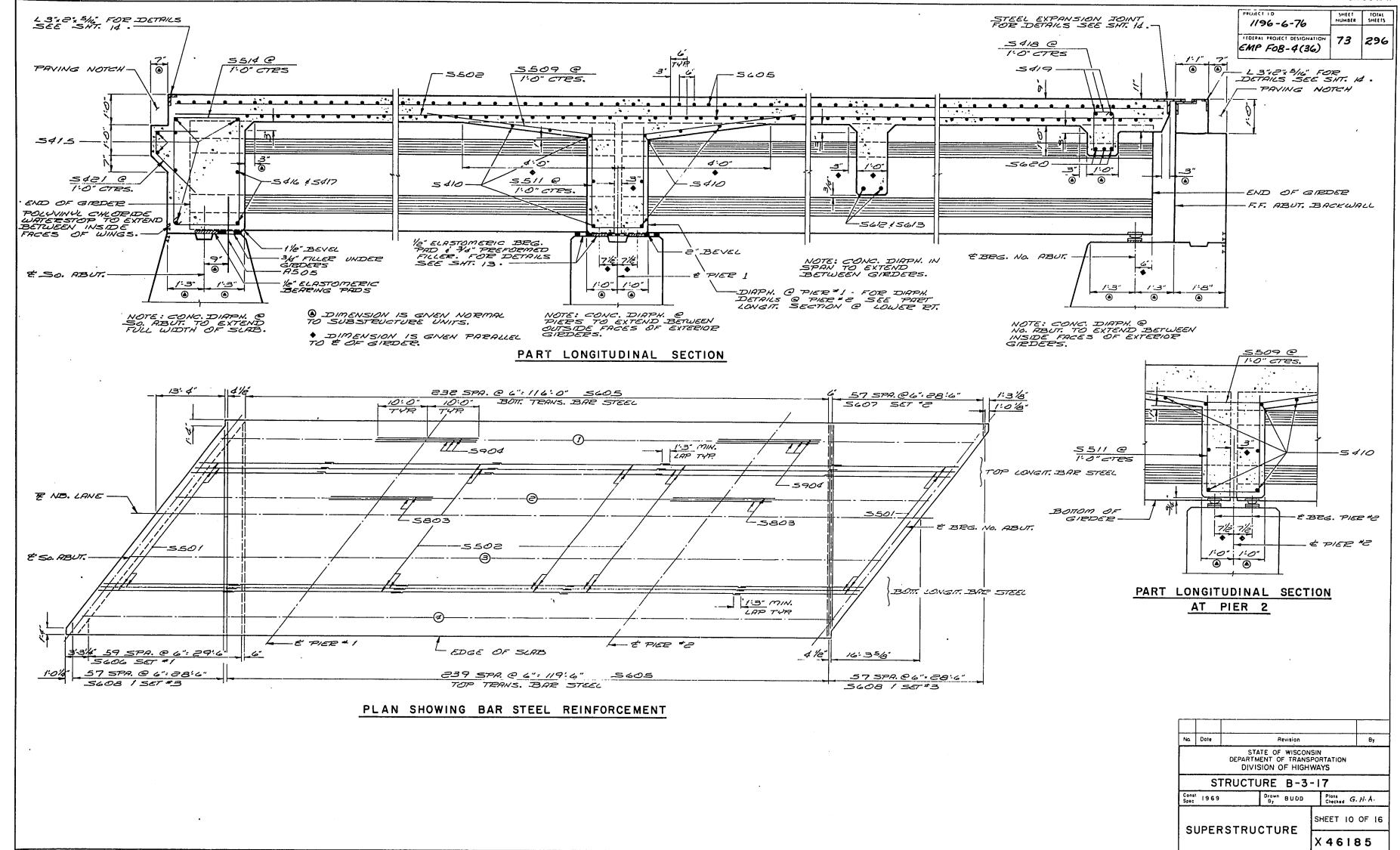


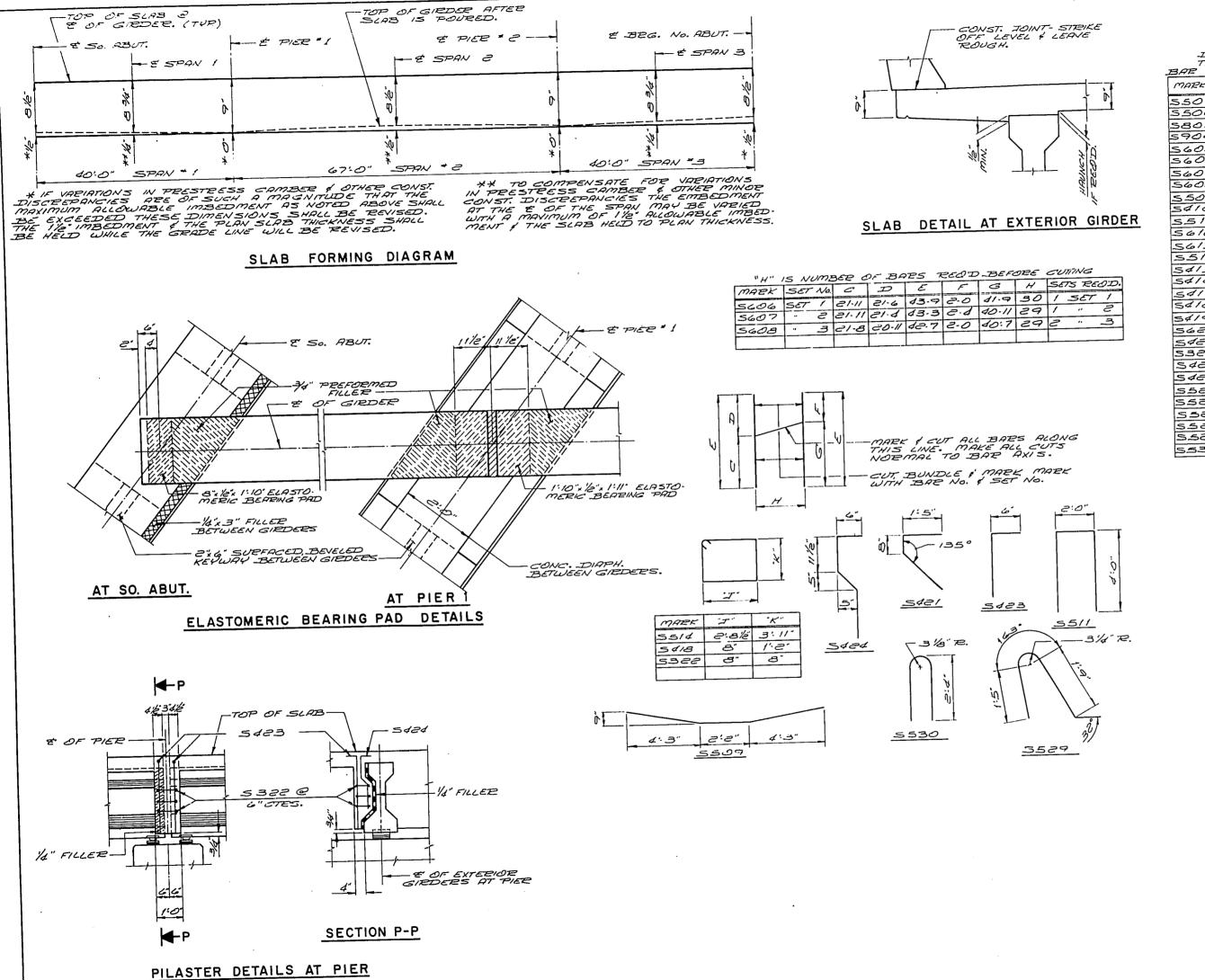












PROJECT TO SHEET SHEETS

1/96 - 6 - 76

TEDERAL PROJECT DESIGNATION 74 296

BILL OF BARS EMP FO8-4(36)

DIMENSIONS ARE OUT TO OUT OF BAR.
THE FIRST DIGIT OF A 3 DIGIT BAR MARK SIGNIFIES THE

ar s	IZE.					
20774	NO. REOD.	LENGTH	BENT	CUT. DIA.	LOCATION	LONGIT.
501	174	24-9			SLAB TOP & BOT.	"
502	261	35.0			" . CPIER GIRD. 2,3	
803	8	20.0			" 1 4	
904	18	20.0				TERNS.
605	473	12-4			" "	· · · · · · · · · · · · · · · · · · ·
606	30	43.9		X		
607	29.	13.3		X		
608	58	12.7		×	, TOP " 3	LONGIT.
509	66	10-10	X		" HAUNCH @ PIEE	TERNS.
410	60	12.3	ĺ		" "	 -
511	66	9.9	×	<u></u>	DIAPH. @ MID SPAN	
610	18	10.10	İ	L	TIME OF ONE	
6/3	36	2.0				
5514	36	14.0	×	<u> </u>	" " 50. ABUT.	
415	14	26-10			" " "	
416	6	12.2		<u> </u>	" " " " " " " " " " " " " " " " " " " "	
5417	4	3-0		<u> </u>	7 7 7	
418	.33	4.2	×		" " ///2.	
419	6	14-7			# " " "	
5620	9	/3.3			9 0 0	
5421	50	3-11	X	<u> </u>	PAYING NOTCH	
322	12	3-0	X		PILASTER @ PIER	VERT.
5423	ප	4-4	X		" " "	
124	ප	3-4	X			HORIZ.
5525	20	17-6		<u> </u>	RAIL PARAPET	"
5526	20	23.0	<u></u>			
5527	20	21.9	<u> </u>		" "	
5528		22.5			" "	VERT.
5.529	298	5.0	×	↓	• "	
530	298	4-9	X		. "	

No Date Revision By

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

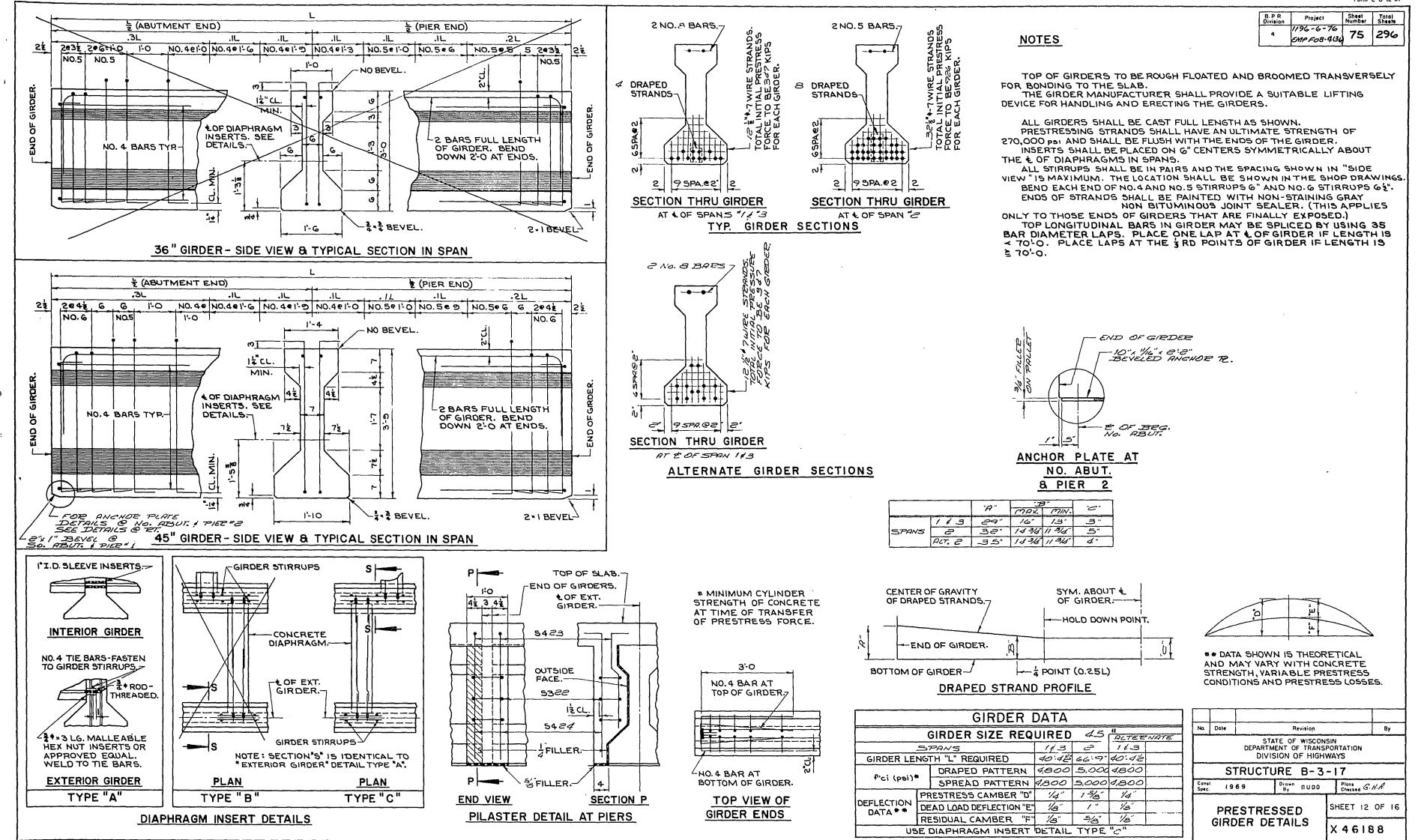
STRUCTURE B-3-17

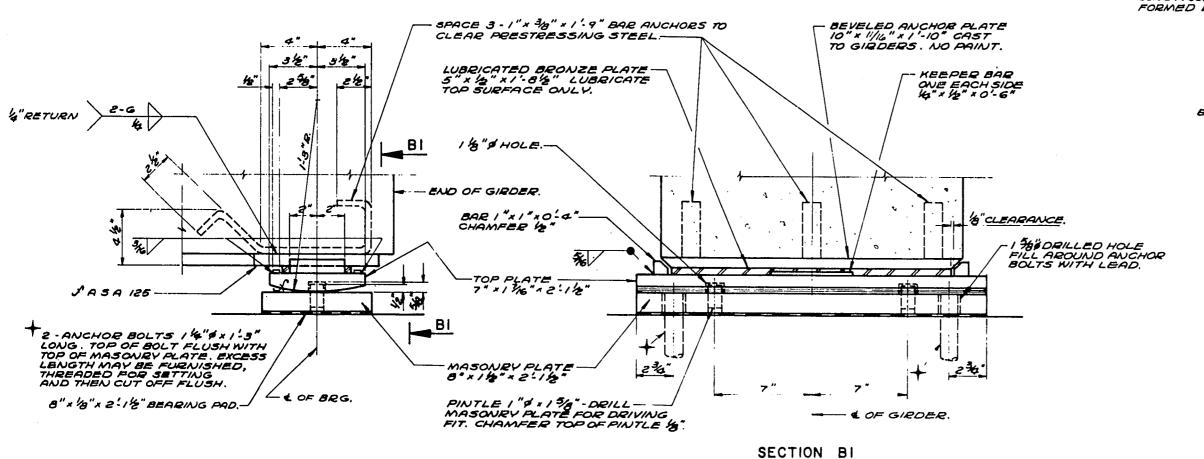
Const. 1969 Drown BUDD Plans Checked G. H.A.

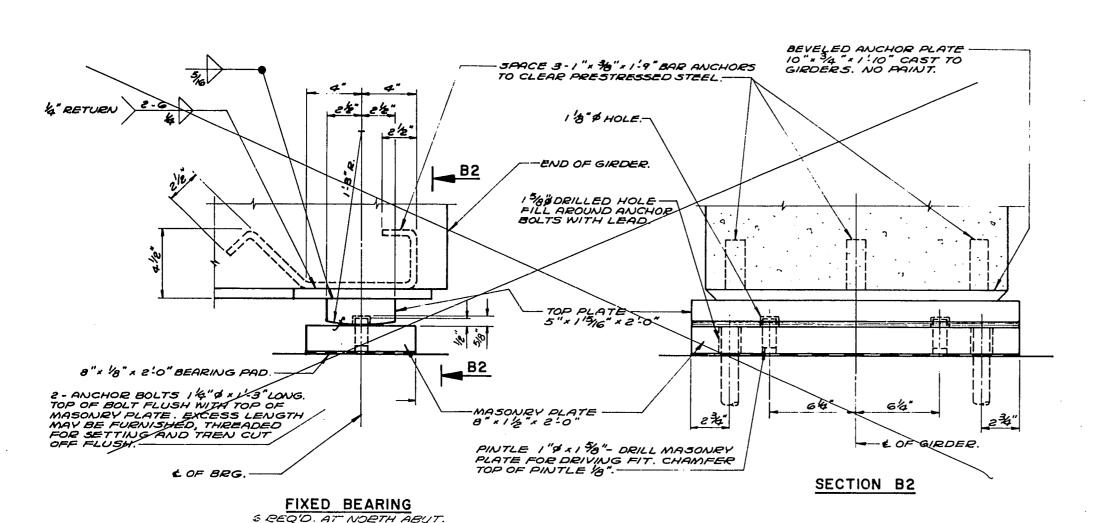
SUPERSTRUCTURE

SHEET II OF 16

X 4 6 1 8 7

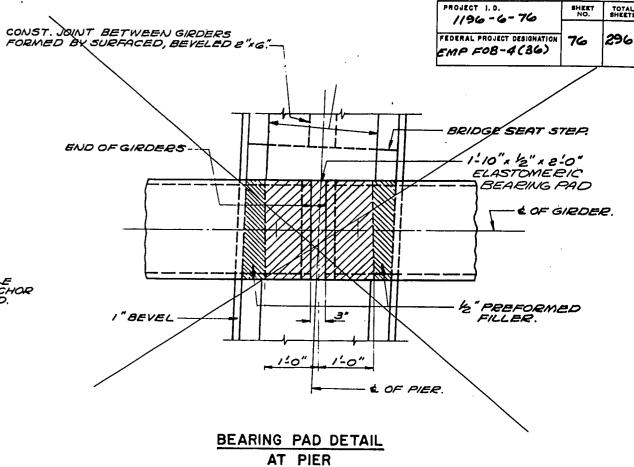


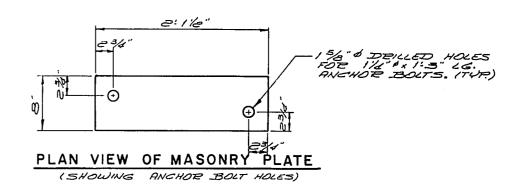




EXPANSION BEARING 4 REG'O. AT NORTH ABUT.

PIER #2





NOTES

ALL PLATE CUTS SHALL BE MACHINE OF MACHINE FLAME

ALL SUPFACES MARKED & SHALL BE MACHINE FLATTE
FINISHED, BY AN AUTOMATIC PROCESS.
ALL MATERIAL EXCEPT ANCHOR BOLTS SHALL BE MADE OF
A242 STEEL WITH A CORPOSIVE RESISTANCE OF & OR MORE TIMES THAT OF A36 STEEL.

ALL BEARING MATERIAL EXCEPT BRONZE PLATES, BEARING PADS, AND ANCHOR PLATES SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STRUCTURAL LOW ALLOY STEEL."

ALL STRUCTURAL STEEL PLATES SHALL BE FLAT ROLLED STEEL PLATES WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL.

