

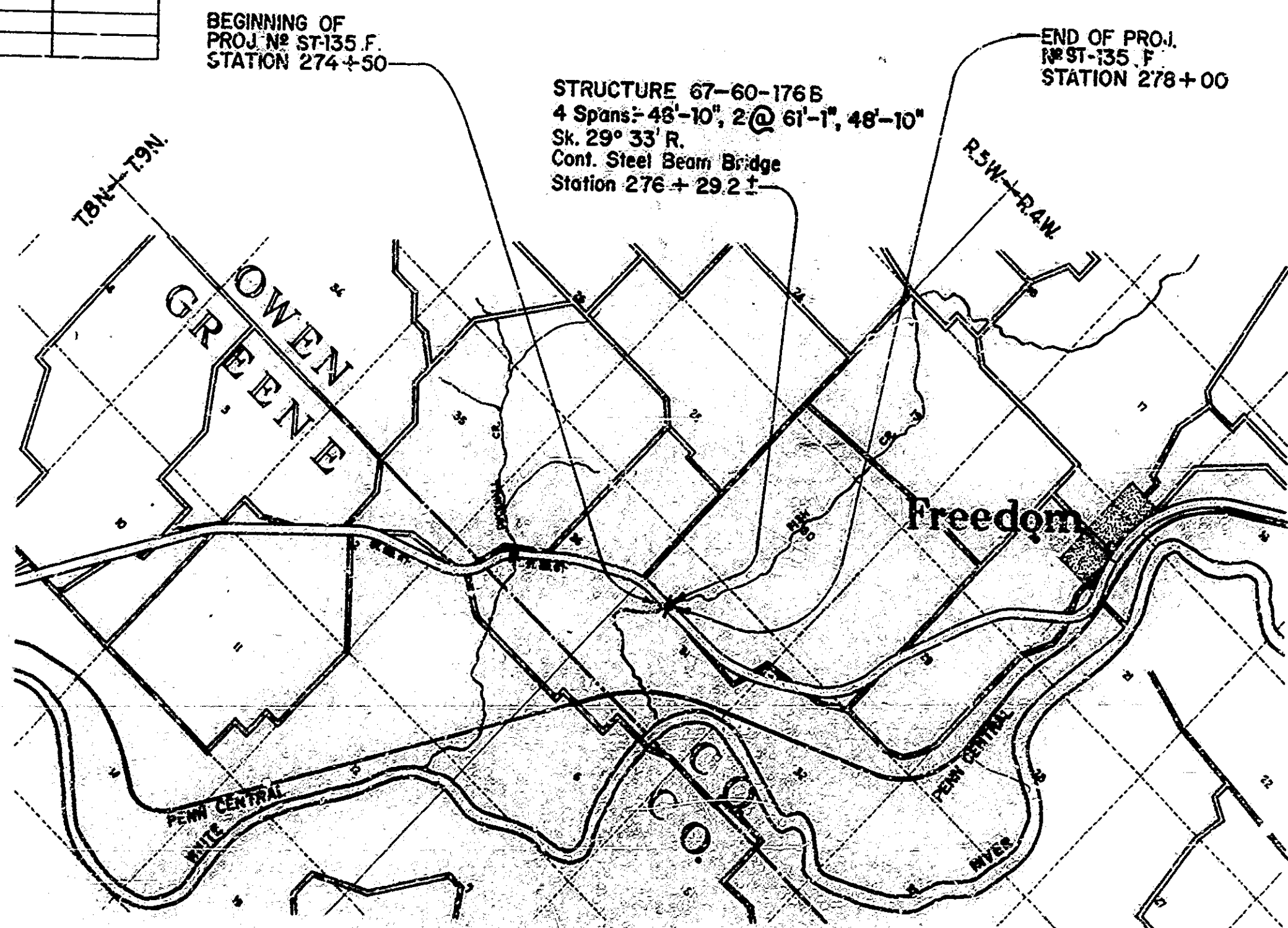
CONTRACT NO. B-9927

INDEX					
PROJECT	STRUCTURE	TYPE	SPAN	OVER	STATION
ST-135 F	67-60-176B	CONT. STEEL BEAM	48'-10" 2 @ 61'-1" 48'-10" Sk. 29° 33' R.	FISH CREEK	276 + 29.2 ±
SHEET NO.	SHEET DESIGNATION	SUBJECT			F.H.W.A. APPROVAL
1		INDEX & TITLE SHEET			
2		TYPICAL CROSS SECTIONS & APPROACH DETAILS			
3	S1 (STR. 67-60-176B)	LAYOUT			
4	S2	GENERAL PLAN			
5	S3	BENT #1 & #2 DETAILS			
6	S4	BENT #1 & #2 DETAILS & BILL OF MATERIALS			
7	S5	PIER #2 & #4 DETAILS			
8	S6	PIER #2 & #4 DETAILS & BILL OF MATERIALS			
9	S7	PIER #3 DETAILS			
10	S8	FRAMING PLAN			
11	S9	STRUCTURAL STEEL DETAILS			
12	S10	FLOOR DETAILS			
13	S11	FLOOR DETAILS & BILL OF MATERIALS			
14	S12	TYPE 'K' EXPANSION JOINT DETAILS			
15		BRIDGE SUMMARY			
16		ESTIMATE OF QUANTITIES			

STATE OF INDIANA
INDIANA STATE HIGHWAY COMMISSION

BRIDGE PLANS FOR SPANS OVER 20 FEET ON STATE ROAD NO. 67 PROJECT NO. ST-135 F

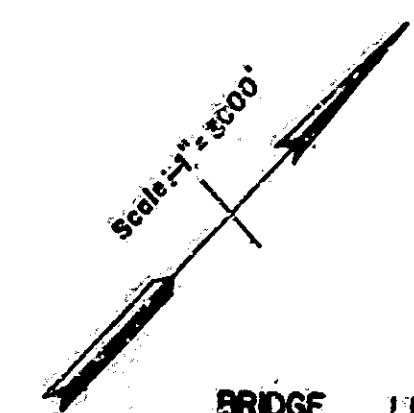
BEGINNING AT A POINT ON S.R. 67, 1081' EAST OF THE WEST LINE OF SEC. 31 & EXTENDING EASTERLY 350' TO A POINT 1431' EAST OF THE WEST LINE OF SEC. 31, ALL IN SEC. 31—T.9N.—R.4 W., OWEN COUNTY.



BRIDGES OVER 20' SPAN					
FEDERAL ROAD NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	ST-135 F	1973	1	40

INDEX CONTINUED STANDARD DRAWINGS					
SHEET NO.	SHEET DESIGNATION	SUBJECT	F.H.W.A. APPROVAL	ADOPTED REVISION NO.	
17	BRIDGE STD. BR1	ALUMINUM BRIDGE RAILING			
18	BRIDGE STD. BR2	ALUMINUM BRIDGE RAILING DETAILS		R-9-1-73	
19	BRIDGE STD. BR3	STEEL BRIDGE RAILING		R-9-1-73	
20	BRIDGE STD. BR4	STEEL BRIDGE RAILING DETAILS		R-9-1-73	
21	BRIDGE STD. C1	MISCELLANEOUS DETAILS		R-9-1-73	
22	BRIDGE STD. C2	MISCELLANEOUS DETAILS		R-9-1-73	
22A	BRIDGE STD. C3	MISCELLANEOUS DETAILS		R-9-1-73	
	BRIDGE STD. D	CASTING DETAILS ROADWAY DRAINS		R-6-1-72	
	BRIDGE STD. C4	PRESTRESSED CONCRETE PILES			
	BRIDGE STD. SB	PRESTRESSED CONCRETE TYPE I-BEAMS		R-APRIL, 1974	
	BRIDGE STD. PB	PRESTRESSED CONCRETE TYPE L-BEAMS			
	BRIDGE STD. PB6	PRESTRESSED CONCRETE TYPE L-BEAMS			
	BRIDGE STD. PB	PRESTRESSED BOX BEAMS			
	BRIDGE STD. PB	PRESTRESSED COMPOSITE BOX BEAMS WIDE			
	BRIDGE STD. PB	PRESTRESSED COMPOSITE BOX BEAMS WIDE			
	BRIDGE STD. PB10	TOLERANCES FOR FABRICATION OF PRESTRESSED BEAMS			
	BRIDGE STD. PB11	ELASTOMERIC BEARING PAD DETAILS			
	BRIDGE STD.				
	BRIDGE STD. R2A	BRIDGE LIGHTING DETAILS			
23	BRIDGE STD. S1	MISCELLANEOUS DETAILS			
24	BRIDGE STD. SH1	STEEL SHOE DETAILS		R-8-2-71	
25	BRIDGE STD. TSHEET A	STANDARD TEMPORARY BRIDGE		R-11-26-57	
26	BRIDGE STD. TSHEET B	STANDARD TEMPORARY BRIDGE		R-11-13-39	
	BRIDGE STD.				
	BRIDGE STD.				
	BRIDGE STD.				
	ROAD STD. SHEET Aconc	STANDARD CONT. REINF. CONC. PAVEMENT			
	ROAD STD. SHEET Bconc	STANDARD CONT. REINF. CONC. PAVEMENT			
	ROAD STD. SHEET Cconc	STANDARD CONT. REINF. CONC. PAVEMENT			
	ROAD STD. SHEET A	STANDARD PAVEMENT JOINTS			
27	ROAD STD. SHEET MA	MISCELLANEOUS STANDARDS		R-1-4-71	
	ROAD STD. SHEET MA	MISCELLANEOUS STANDARDS			
28	ROAD STD. SHEET MB	MISCELLANEOUS STANDARDS		R-1-2-74	
	ROAD STD. SHEET MB2	MISCELLANEOUS STANDARDS			
	ROAD STD. SHEET MC	MISCELLANEOUS STANDARDS			
	ROAD STD. SHEET MC1	MISCELLANEOUS STANDARDS			
	ROAD STD. SHEET MD	MISCELLANEOUS STANDARDS			
	ROAD STD. SHEET MD	MISCELLANEOUS STANDARDS			
	ROAD STD. SHEET ME	MISCELLANEOUS STANDARDS			
29	ROAD STD. SHEET ME2	MISCELLANEOUS STANDARDS		R-1-2-74	
	ROAD STD. SHEET	MISCELLANEOUS STANDARDS			
30	ROAD STD. SHEET MH1	MISCELLANEOUS STANDARDS		R-7-2-73	
	ROAD STD. SHEET MH	MISCELLANEOUS STANDARDS			
31	ROAD STD. SHEET ME1	MISCELLANEOUS STANDARDS		R-1-2-74	
	ROAD STD. SHEET	MISCELLANEOUS STANDARDS			
	ROAD STD. SHEET MN	MISCELLANEOUS STANDARDS			
	ROAD STD. SHEET	MISCELLANEOUS STANDARDS			
	ROAD STD. SHEET MP	MISCELLANEOUS STANDARDS			
	ROAD STD. SHEET	MISCELLANEOUS STANDARDS			
	ROAD STD. SHEET MQ	MISCELLANEOUS STANDARDS			
	ROAD STD. SHEET MR	MISCELLANEOUS STANDARDS			
	ROAD STD. SHEET				
	ROAD STD.	STANDARD REINF. CONC. BOX CULVERTS			
	ROAD STD.	STANDARD REINF. CONC. CULVERTS			
	ROAD STD. SHEET GR	GUARD RAIL CLASS			
32	ROAD STD. SHEET GR4	GUARD RAIL CLASS SA OR GST		A-Feb. 1971	
33	ROAD STD. SHEET GR5	ALUMINUM GUARD RAIL DETAILS		R-10-1-71	
34	ROAD STD. SHEET GR6	STEEL TUBE GUARD RAIL DETAILS		A-Feb. 1971	
	ROAD STD. SHEET GR10	GUARD RAIL BURRED ENDS			
	ROAD STD.				
	ROAD STD.	STANDARDS FOR SUPERELEVATION			
	ROAD STD. SHEET 1	STANDARD DETOUR SIGNS			
35	ROAD STD. SHEET 2	STANDARD DETOUR SIGNS		P-1-2-74	
36	ROAD STD. SHEET 3	STANDARD DETOUR SIGNS		R-4-2-73	
37	ROAD STD. SHEET 4	STANDARD DETOUR SIGNS		R-10-1-74	
38	ROAD STD. SHEET 5	STANDARD DETOUR SIGNS		R-10-1-74	
39	ROAD STD. SHEET 1	CONSTRUCTION IDENTIFICATION SIGNS		R-2-1-73	
40	ROAD STD.	SPECIAL SIGNS			

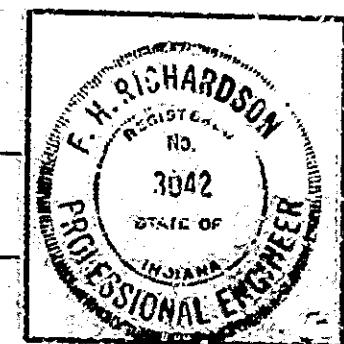
TRAFFIC DATA	
A.D.T. (1972)	4,400 V.P.D.
A.D.T. (1992 PROJECTED)	8,000 V.P.D.
D.H.V. (1992 PROJECTED)	950 V.P.D.
TRUCKS	7% ADT, 17%
DESIGN SPEED	60 M.P.H.
ACCESS CONTROL	



BRIDGE LENGTH: 0.042 MI.
ROADWAY LENGTH: 0.024 MI.
TOTAL LENGTH: 0.066 MI.
MAX. GRADE: 2.7 %

APPROVED 4-13-73
[Signature]
CHIEF HIGHWAY ENGINEER—INDIANA STATE HIGHWAY COMMISSION

RECOMMENDED FOR APPROVAL 4/11/73
[Signature]
F. H. RICHARDSON
ENGINEER OF BRIDGE DESIGN, INDIANA STATE HIGHWAY COMMISSION



FEDERAL HIGHWAY ADMINISTRATION
DEPARTMENT OF TRANSPORTATION

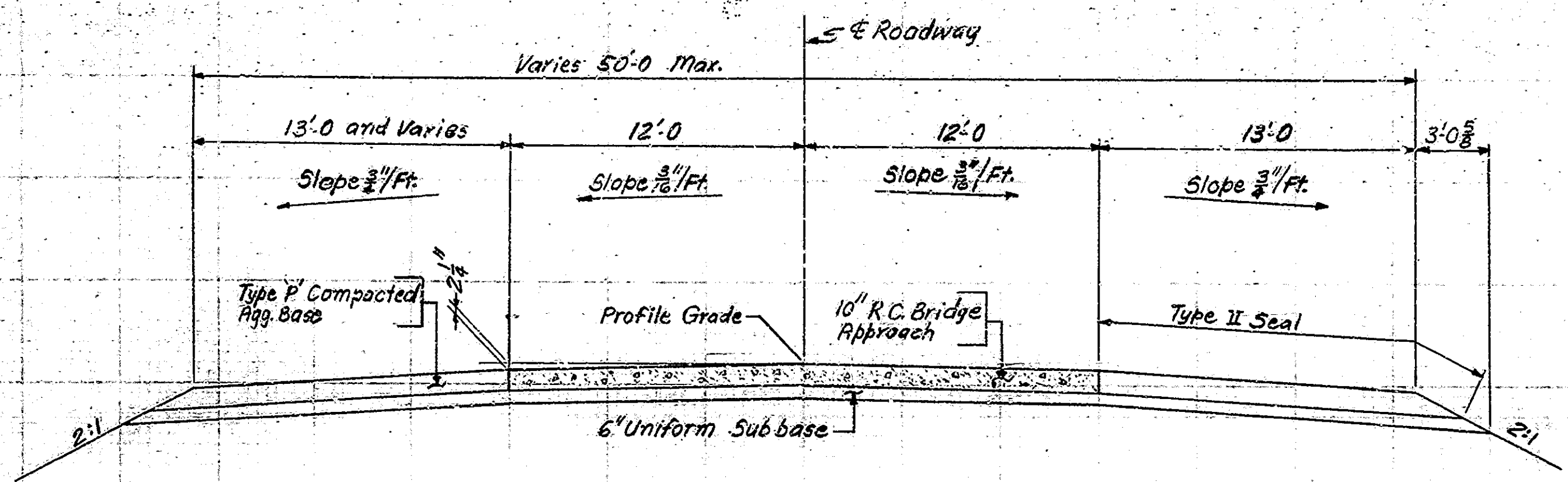
APPROVED: _____
DIVISION ENGINEER _____ DATE _____

DATE	REVISIONS	SHEET NO.
7-12-73	1-2	
9-7-73	3-4-15 thru 20, 29, 30, 36, 37, 38, Delete 39	
9-26-74	1-3, 4, 15 thru 16	
10-16-74	1-7	

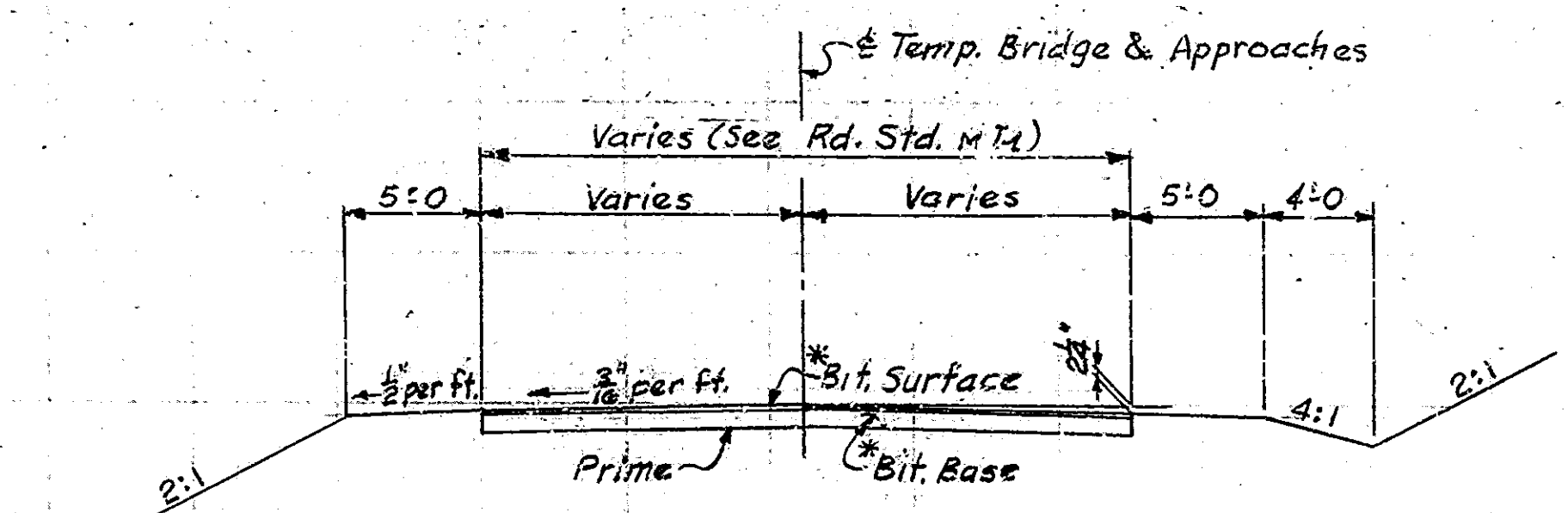
INDIANA STATE HIGHWAY COMMISSION
STANDARD SPECIFICATIONS DATED 1974
TO BE USED WITH THESE PLANS.

Rev. 7-12-73 SC, JDM
Rev. 9-7-73 EIC, DAN, BIL
Rev. 9-26-74 JKR, PLS, DMM, WTH
Rev. 10-16-74 EIC

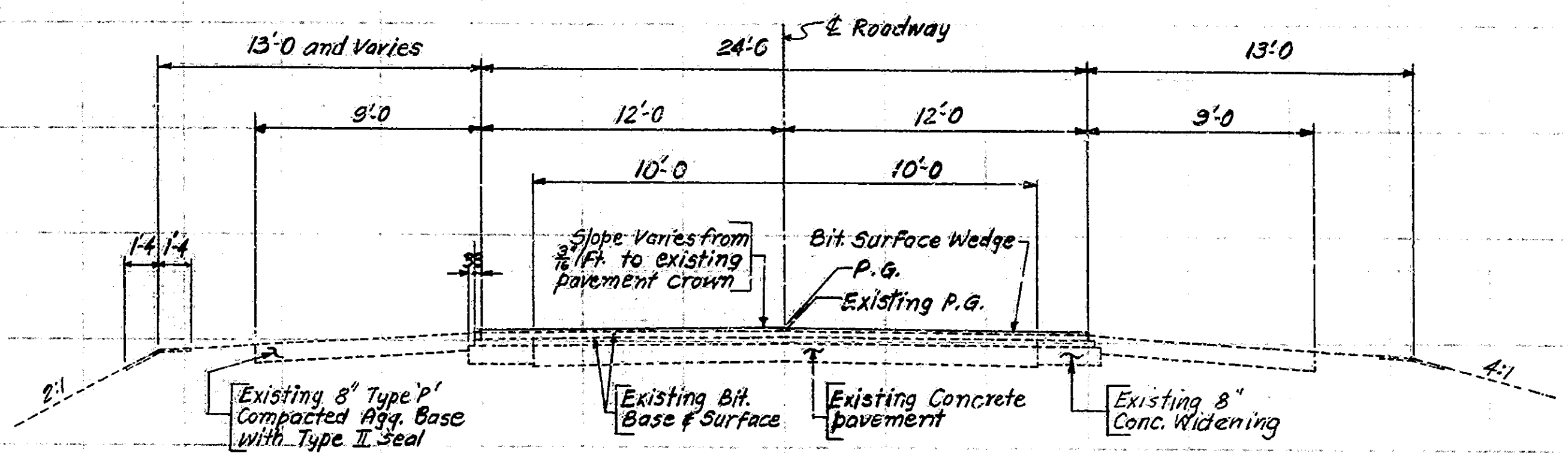
BRIDGE FILE: 67-60-176B



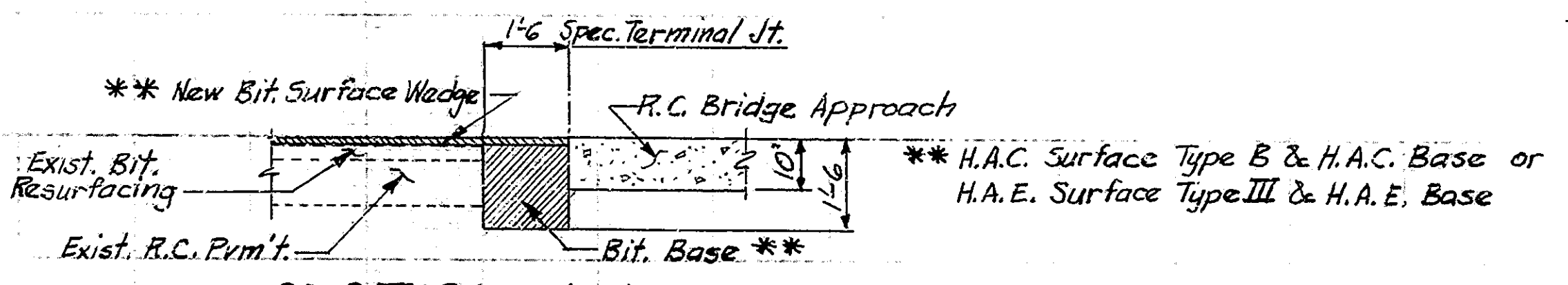
TYPICAL CROSS-SECTION
 Sta. 274+89.68 to Sta. 275+16.99
 Sta. 277+41.42 to Sta. 277+68.72
 Scale: 1/4" = 1'-0"



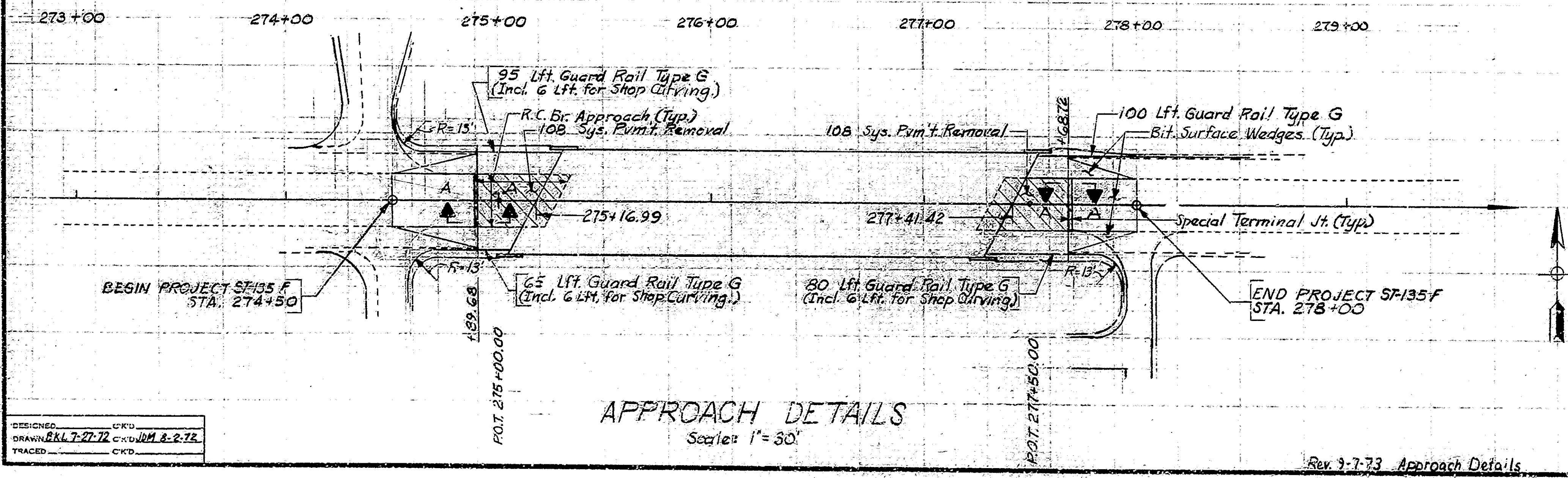
TYPICAL CROSS-SECTION
 (TEMPORARY APPROACHES TO TEMPORARY BRIDGE)
 Scale: 3/16" = 1'-0"



TYPICAL CROSS-SECTION
 Sta. 274+50.00 to Sta. 274+88.18
 Sta. 277+70.22 to Sta. 278+00.00
 Scale: 1/4" = 1'-0"



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



APPROACH DETAILS
 Scale: 1" = 30'

TYPICAL CROSS-SECTIONS & APPROACH DETAILS
INDIANA STATE HIGHWAY COMMISSION

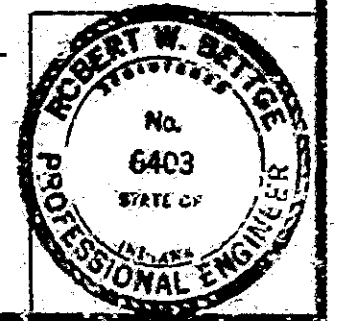
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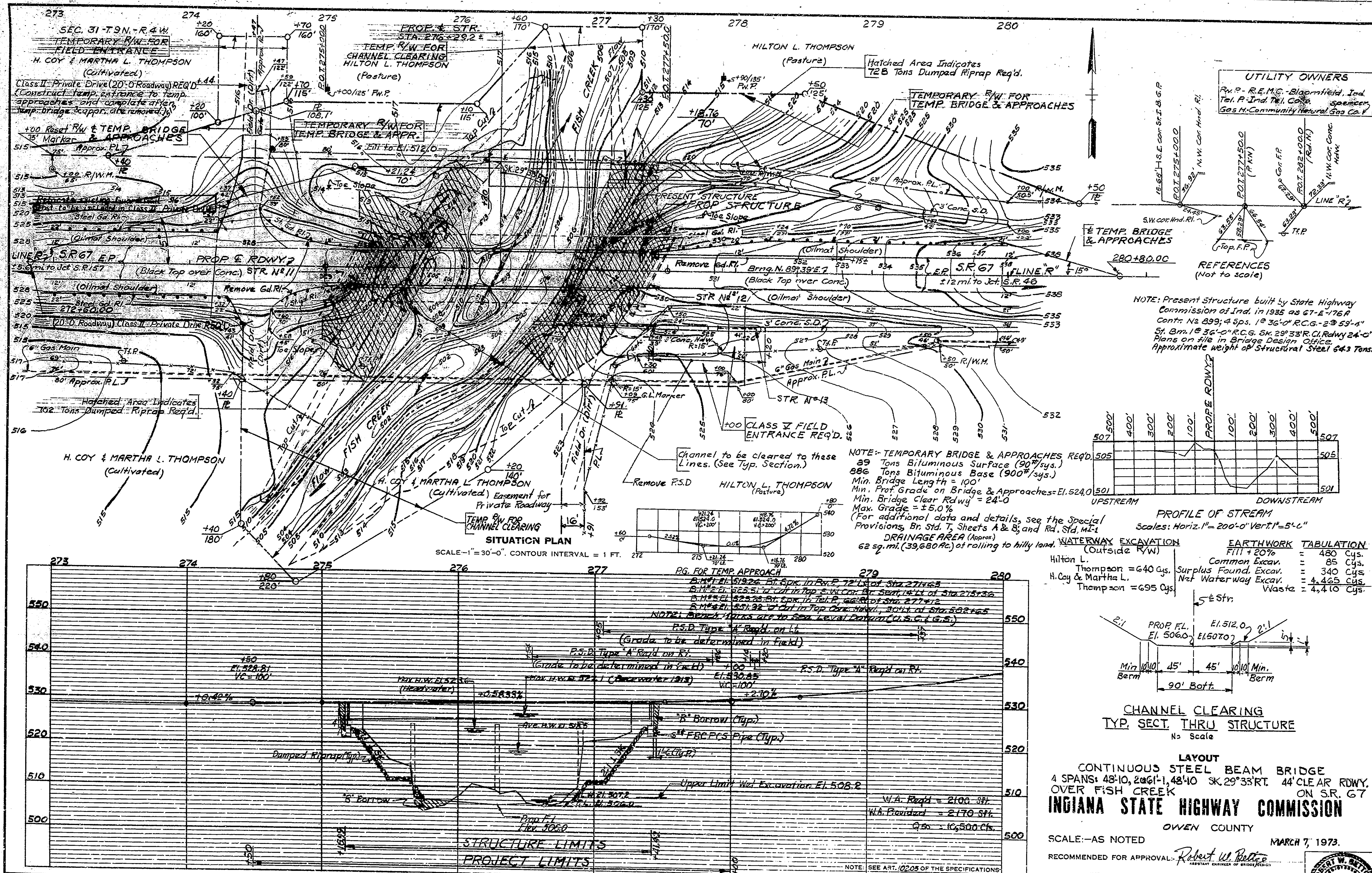
RECOMMENDED FOR APPROVAL: *Robert W. Butler*
 ASSISTANT ENGINEER OF HIGHWAYS

PROJECT: SF-135 F SHEET 2 OF 40
 CONTRACT NO. B-9927
 BRIDGE FILE: 67-60-176 B

DESIGNED: CKD
 DRAWN: RAL 7-27-72 CKD JML 8-2-72
 TRACED: CKD

Rev. 9-7-73 Approach Details

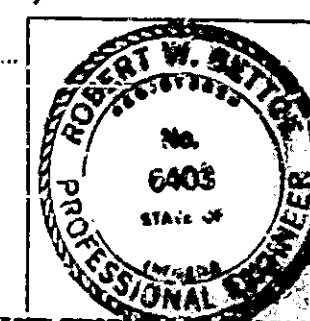


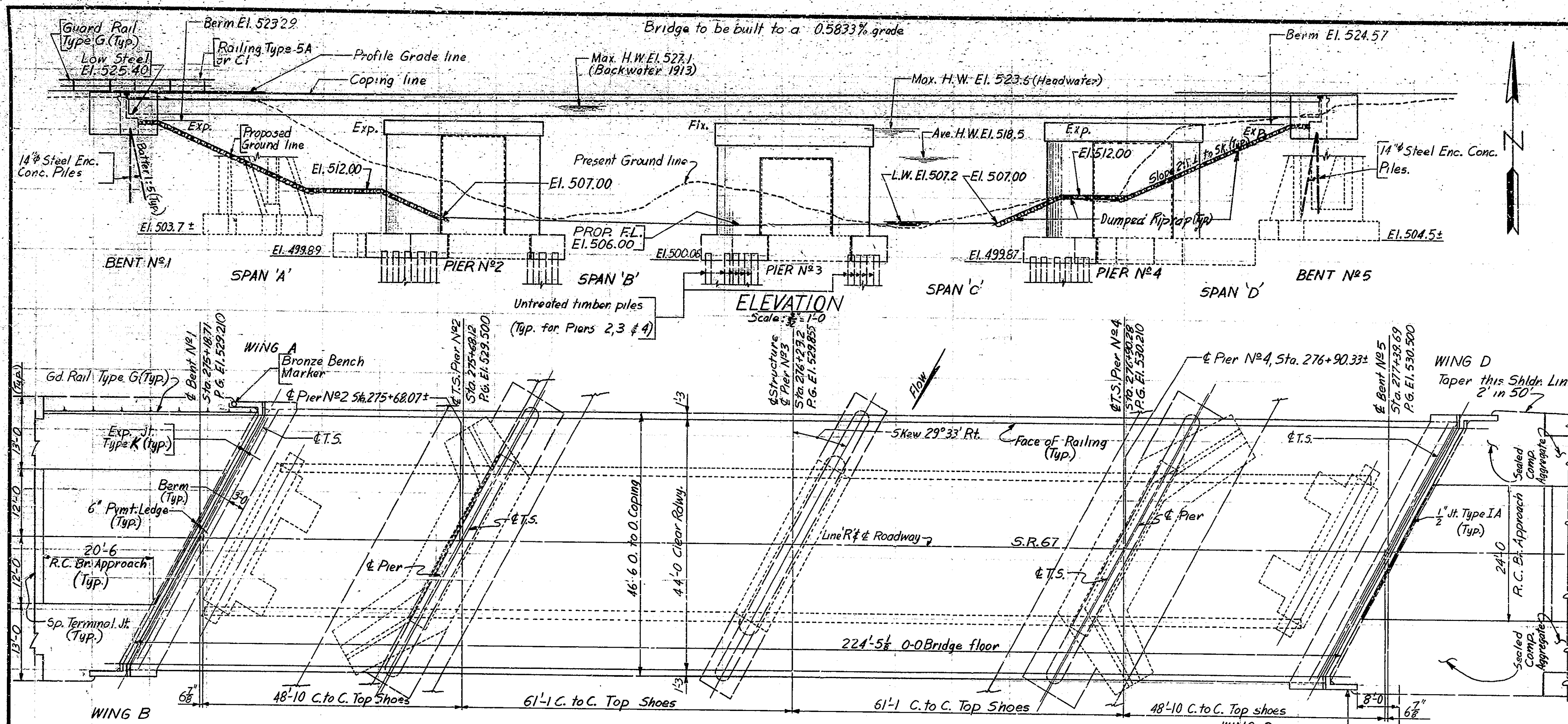


DRAWN 2/1-72 CKD 8/11-72-72
 DESIGNED 4/12-72 CKD 8/11-72-72
 TRACED 10/1-72 CKD 8/11-72-72

Rev. 9-26-74 P.G. For Temp. Appr.
 Rev. 7-12-73 R & Easement

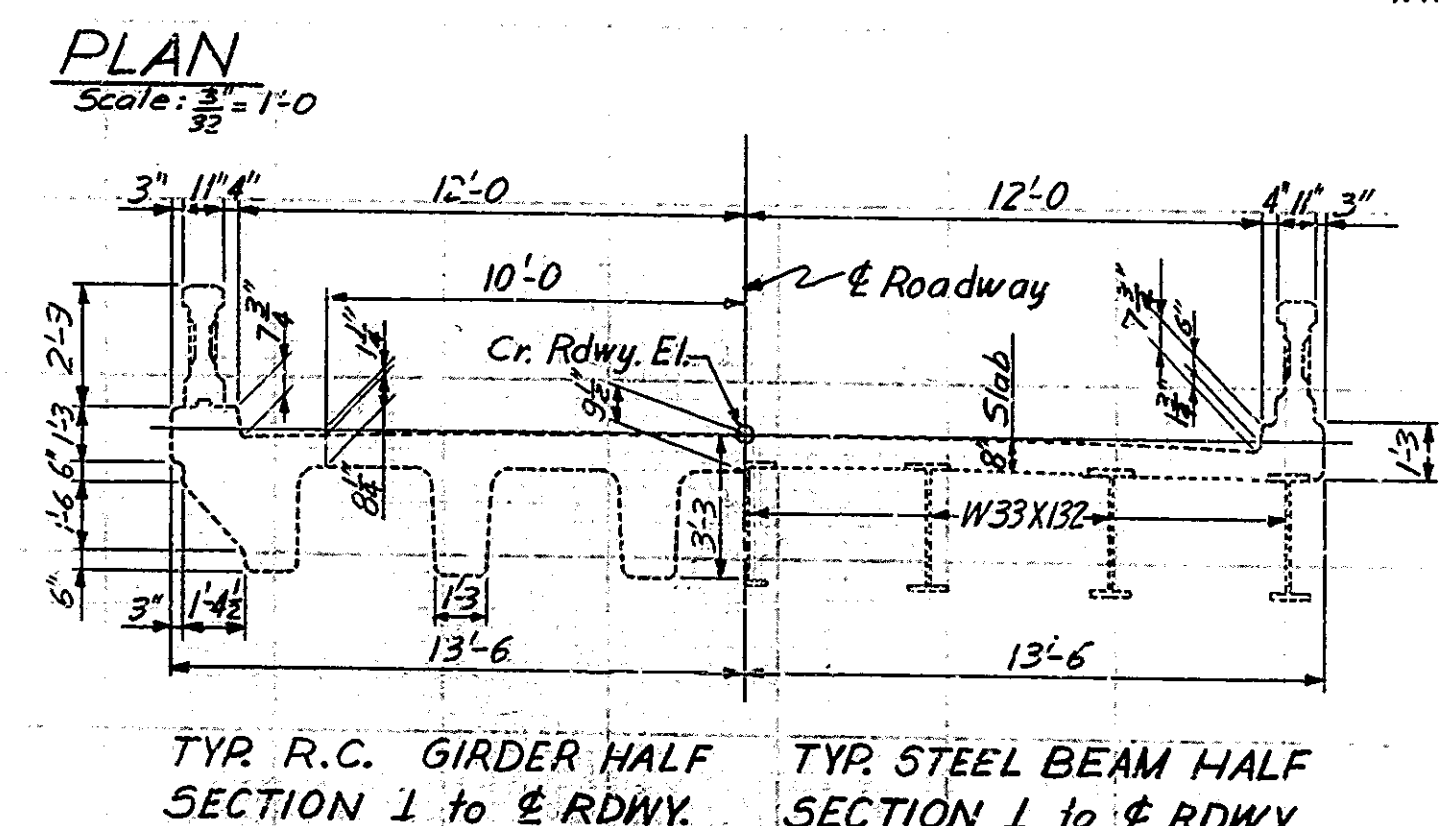
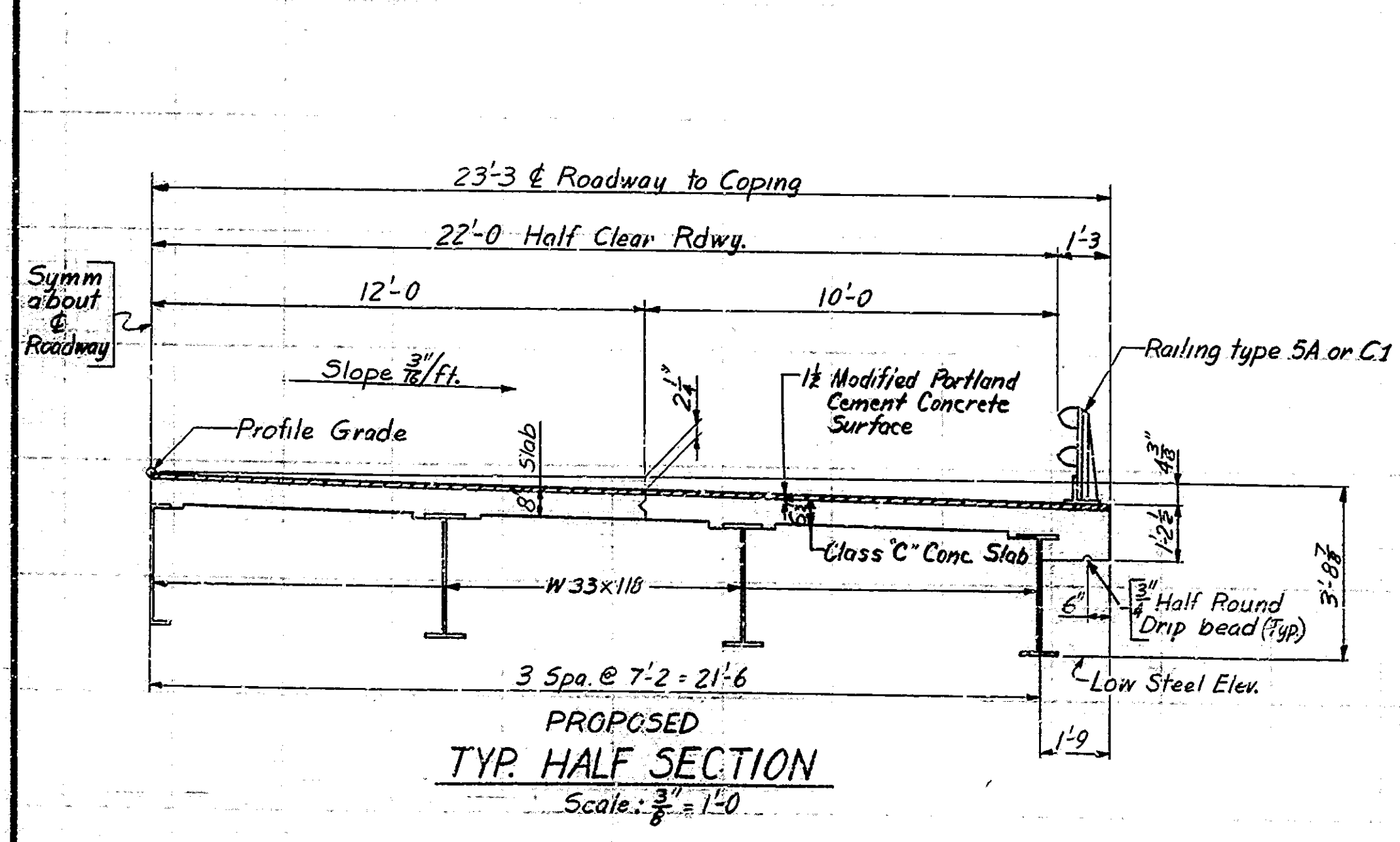
PROFILE ON PROPOSED ROADWAY
 SCALES: HORIZ. 1" = 30'-0" VERT. 1" = 10'-0"





DESIGN DATA
Designed for HS-20-44 loading in accordance with 1973 A.A.S.H.O. Specifications.

GENERAL NOTES
Piles shall have minimum bearing value shown on detail drawings. Determine pile lengths by Art. 701 of Specifications.
For details of steel encased concrete piles see Bridge Standard C1, and applicable articles in the Specifications.
Depth of footings to be extended if found necessary. See Art. 206.11 (c) of the Specifications.
Piles shall be driven to elevation necessary to obtain desired bearing.
Concrete in Superstructure to be Class 'C'.
Concrete in footings and pier stems to be Class 'B'.
Concrete in and bents, pier caps, paved side ditches, and steel encased concrete piles to be Class 'A'.
Continuous concrete pours shall be required between construction joints as shown on detail plans.
Waterproof backs of mudwalls and wingwalls in accordance with Art. 702.22 of the specifications.
Bevel forms 1/4" under copings; and chamfer exposed edges 1 inch unless noted.
Construct dumped riprap at locations shown on layout.
Tolerance in position of piles head Maximum 2" at Bent N°1 & N°5.
All railing posts to be constructed perpendicular to grade.
Only the top of and bent caps, front face of mudwalls, face of deck coping, and underside of the bridge floor from coping to face of outside beam to be sealed in accordance with Article 702.20 of the Specifications.
See special provisions for items included in this contract.
As an alternate Prestressed Concrete Piles may be substituted for steel encased concrete. See Br. Std. C4 and the Special Provisions.



STANDARD DRAWINGS

BR. STD. RD. STD.	PURPOSE	BR. STD. RD. STD.	PURPOSE
BR1	Railing, Type 5A	MB	Paved Side Ditch, Type A
BR2	Aluminum Railing Details	ME2	Pipe End Sections
BR3	Railing Type C1	MH1	Class II Field Entrance & Class II Private Drive
BR4	Steel Railing Details	MI	Paved Tamp. Roundabout Details
C1	Reinf. Bar, Notes, Bar Bending Details	GR1	Guard Rail Type G
C2	Splicing Pile Shells in Field	GR2	Aluminum Guard Rail Details
G1	1/2" Jt. Type IA, Constr. Jt. Type A, Notch in	GR3	Steel Guard Rail Details
G2	Slab at End of Beams	SH2 DET	Sign Detail Signs
S1	End Bent Backfill & Drainage	SH3 DET	Sign Detail Signs
SH1	Shoe Details	SH4 DET	Sign Detail Signs
SHA	Temp. Bridge Details	SH5 DET	Sign Design Details
SHB	Temp. Bridge Details	SH6 DET	Special Signs
MA	R.C. Bridge Approach Details	C4	Prestressed Concrete Piles

GENERAL PLAN
CONTINUOUS STEEL BEAM BRIDGE

4 SPANS: 1 @ 48'-10", 2 @ 61'-1" & 1 @ 48'-10" 44'-0" CLEAR RDWY. OVER FISH CREEK SK. 29°33' RT. ON S.R. 67

INDIANA STATE HIGHWAY COMMISSION
OWEN COUNTY

SCALE: AS NOTED DATE: MARCH 7, 1973

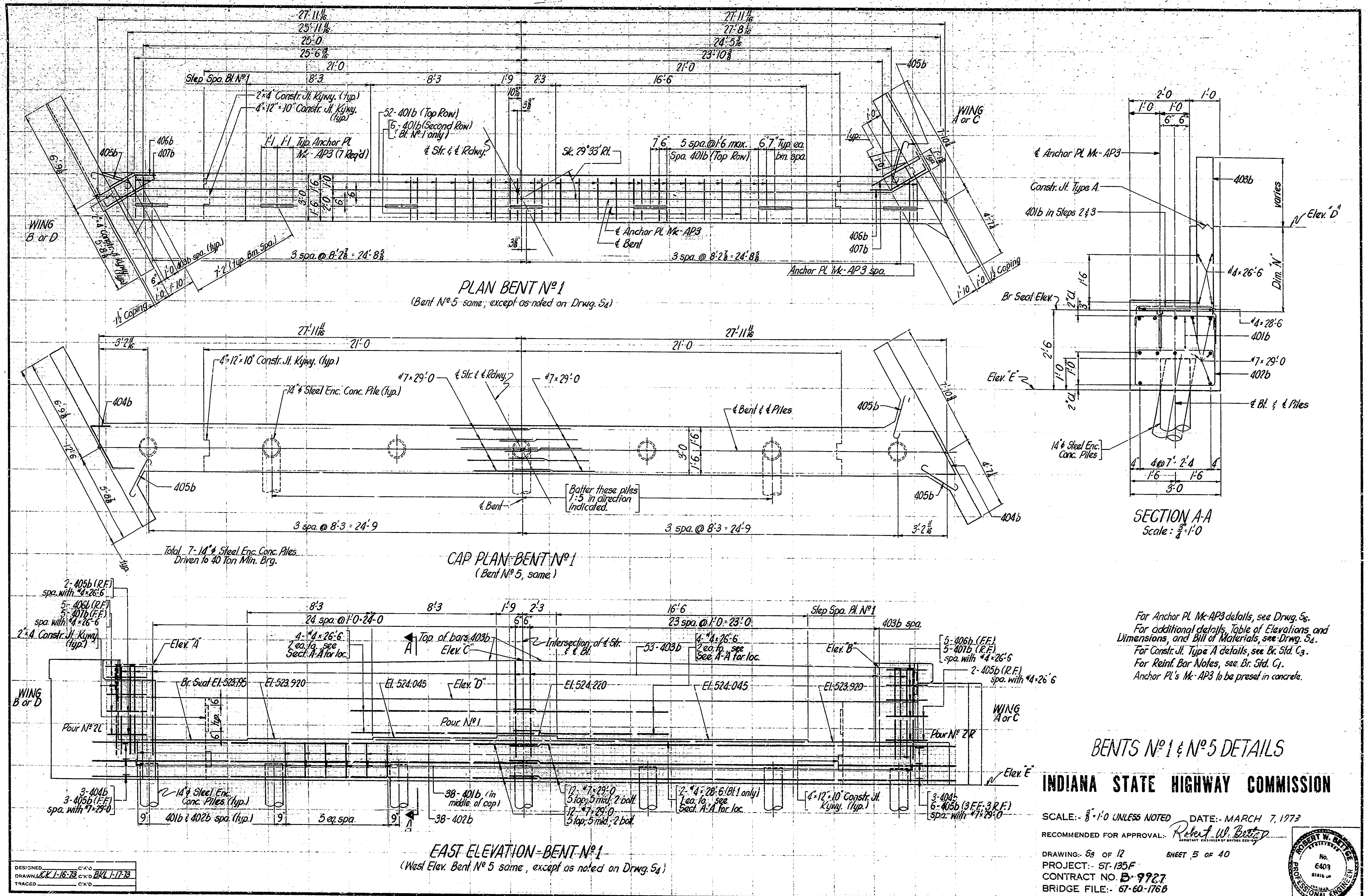
RECOMMENDED FOR APPROVAL: *Robert W. Batts*
AGENT ENGINEER OF BRIDGE DESIGN

DRAWING: S2 OF 12 & STRUCTURE
PROJECT: ST-135 F STA. 276+23.20±
CONTRACT NO. B-9927 SHEET 4 OF 40
BRIDGE FILE: 67-60-176 B

DESIGNED: CKD
DRAWN: BKL, Z-18-72, CKD, JHM, S-14-72
TRACED: Z-21-72, CKD, JHM, S-14-72

Rev. 10-16-74 Notes
Rev. 9-26-73 Notes Std. Drawg.
Mod. P.C. Surface Added.
Rev. 9-7-73 Standard Drawings

ROBERT W. BATTS
No. 6433
STATE OF INDIANA
PROFESSIONAL ENGINEER



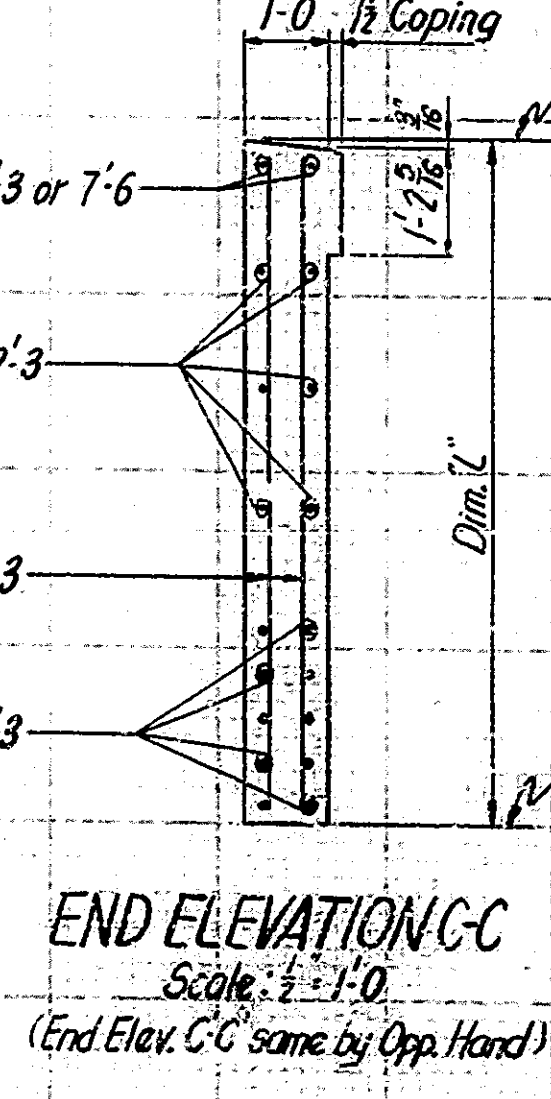
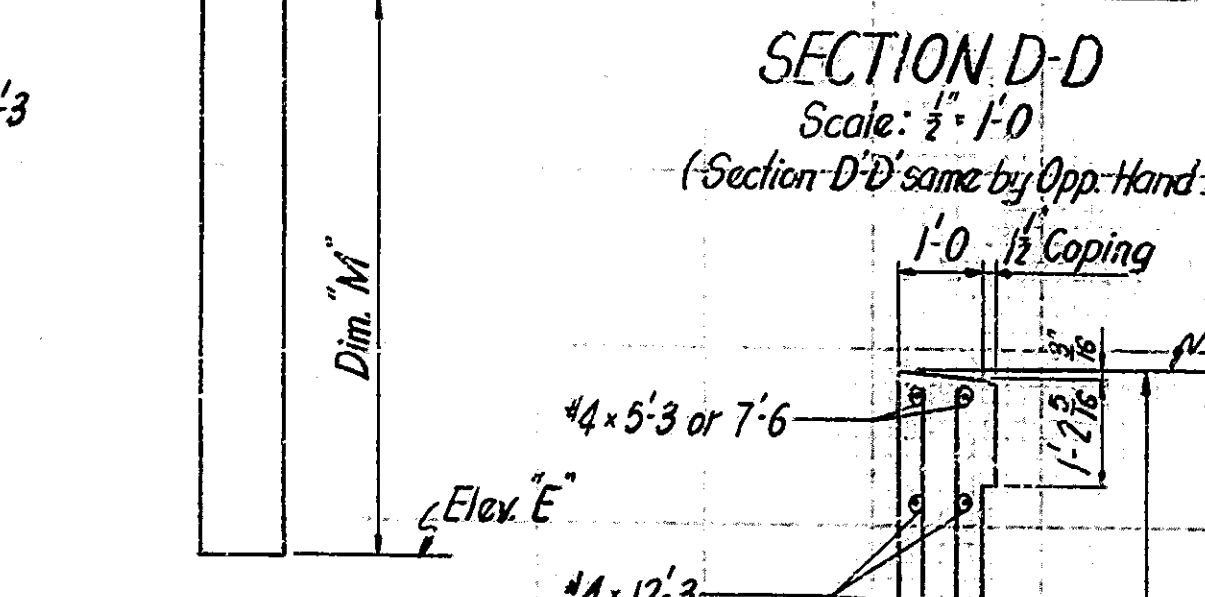
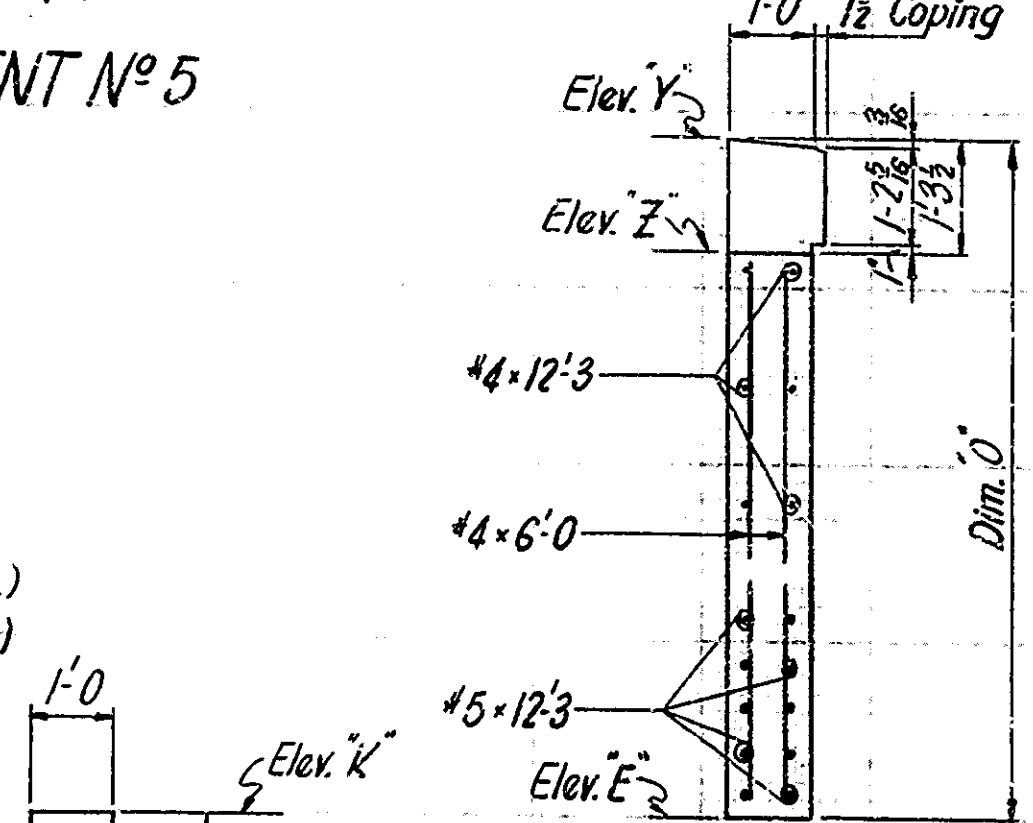
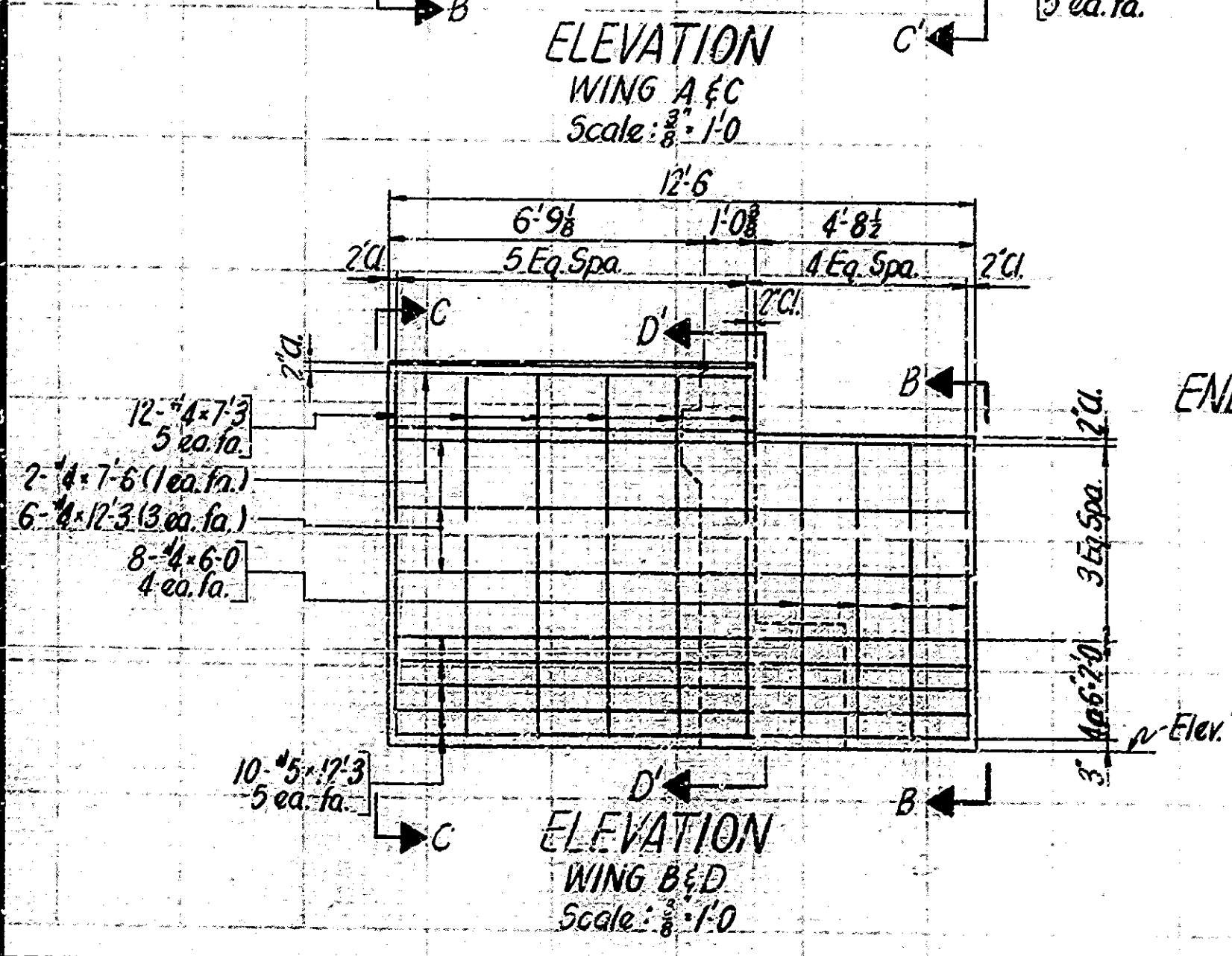
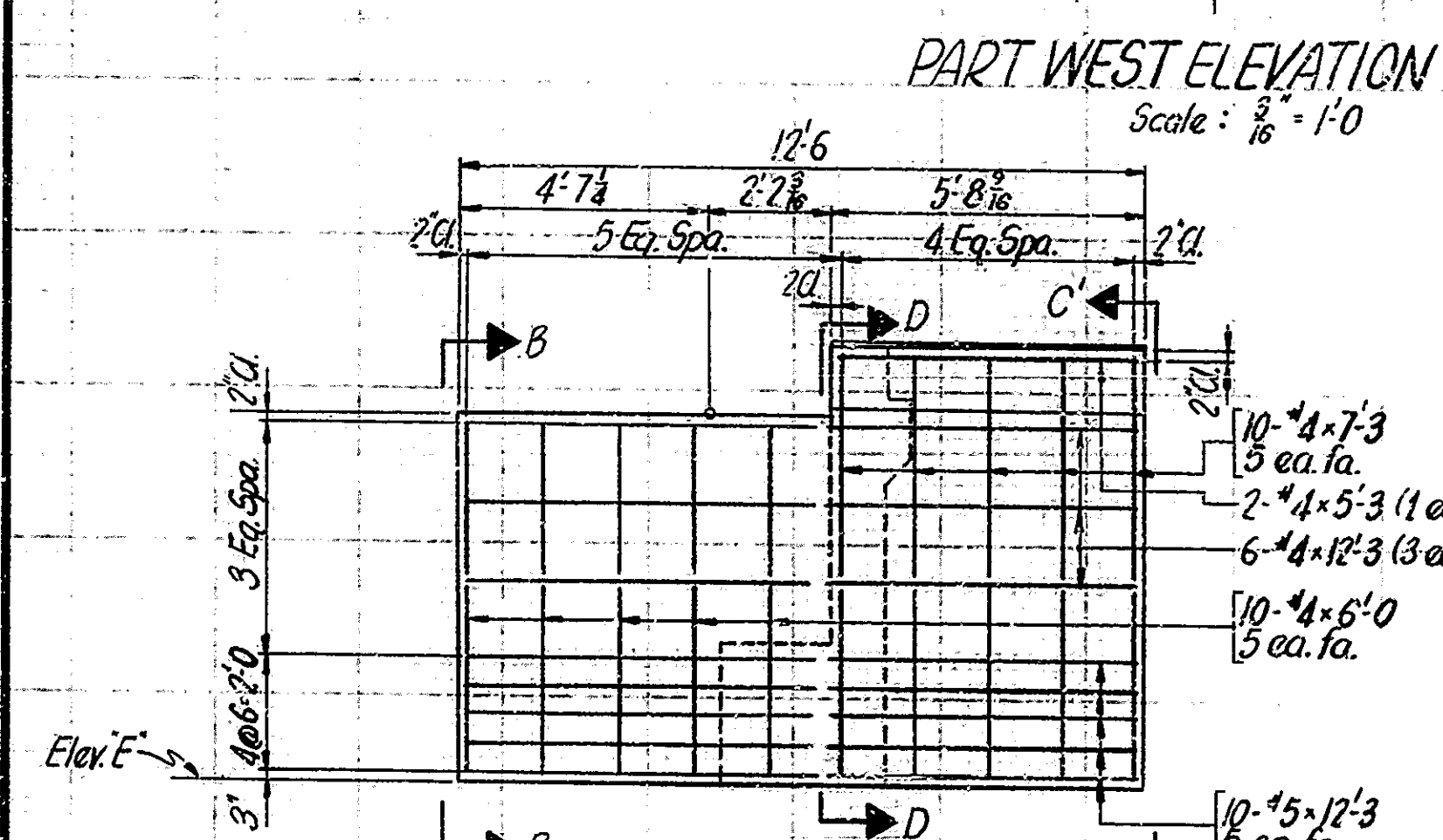
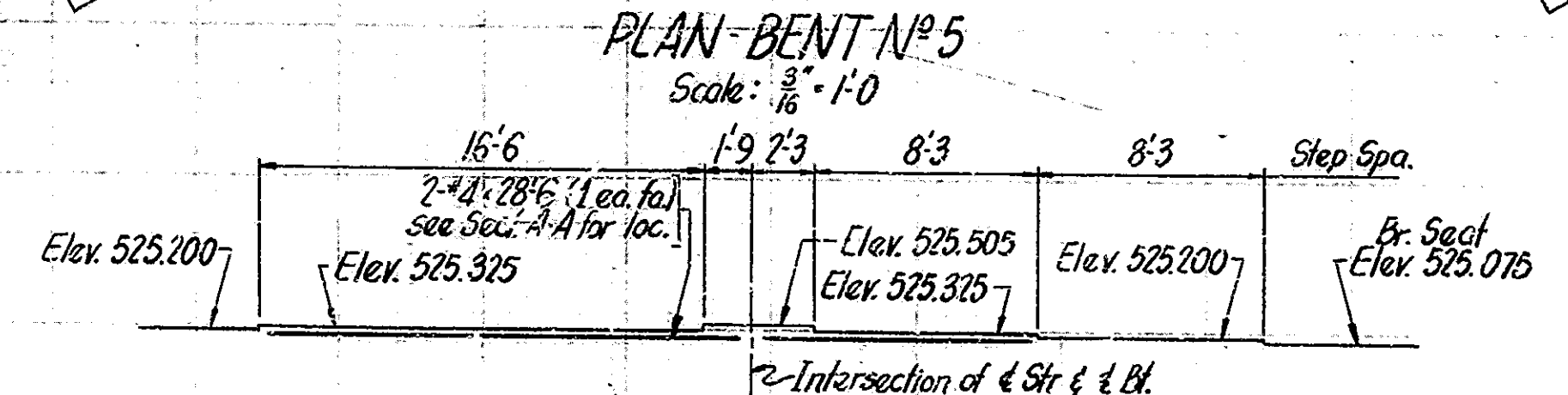
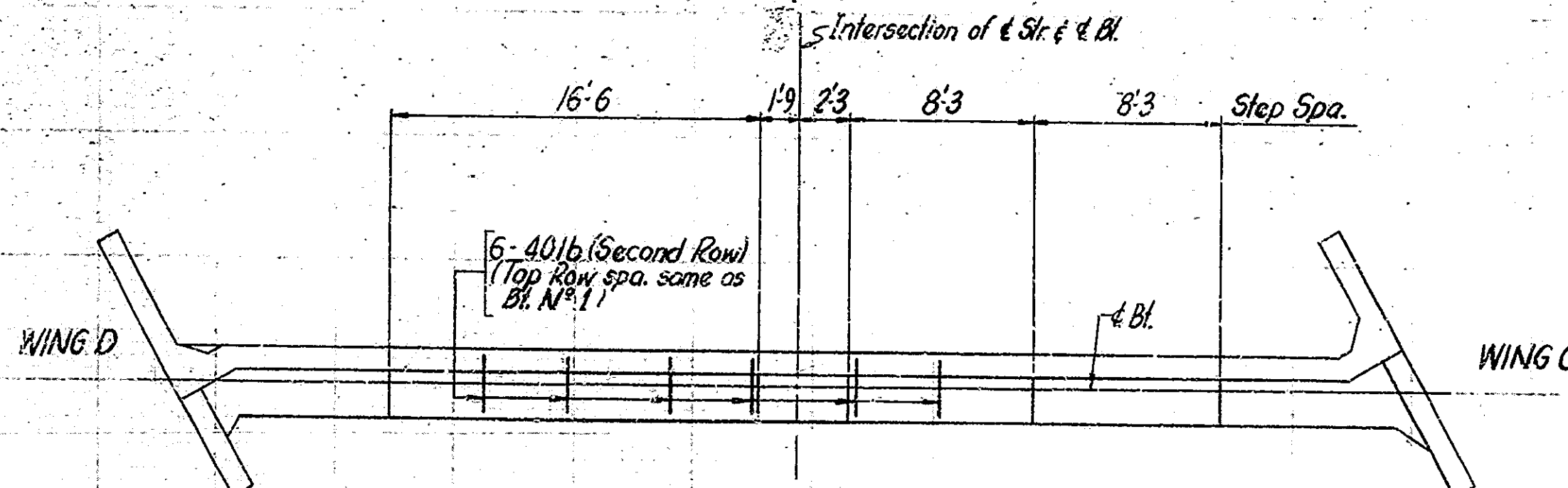
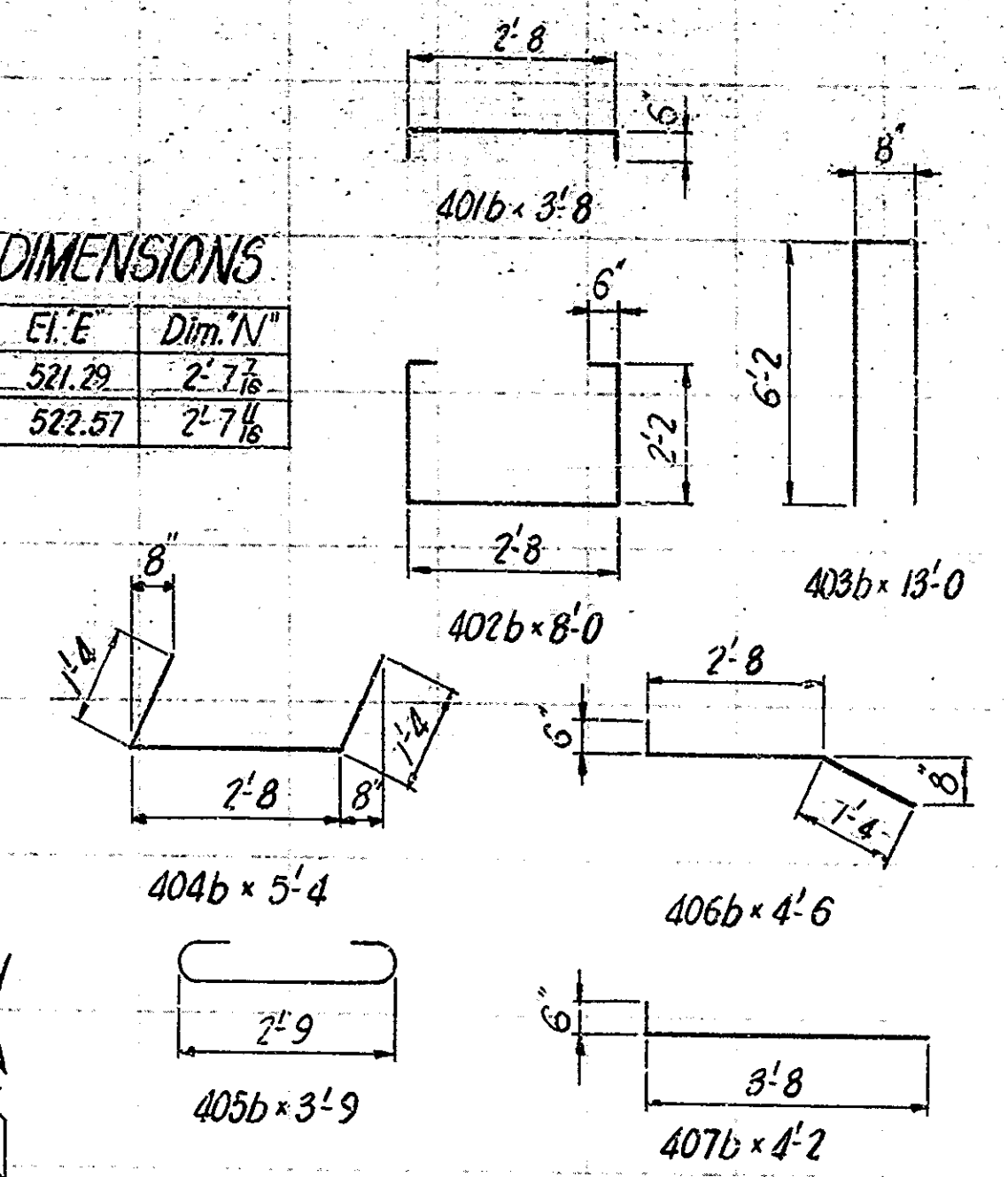


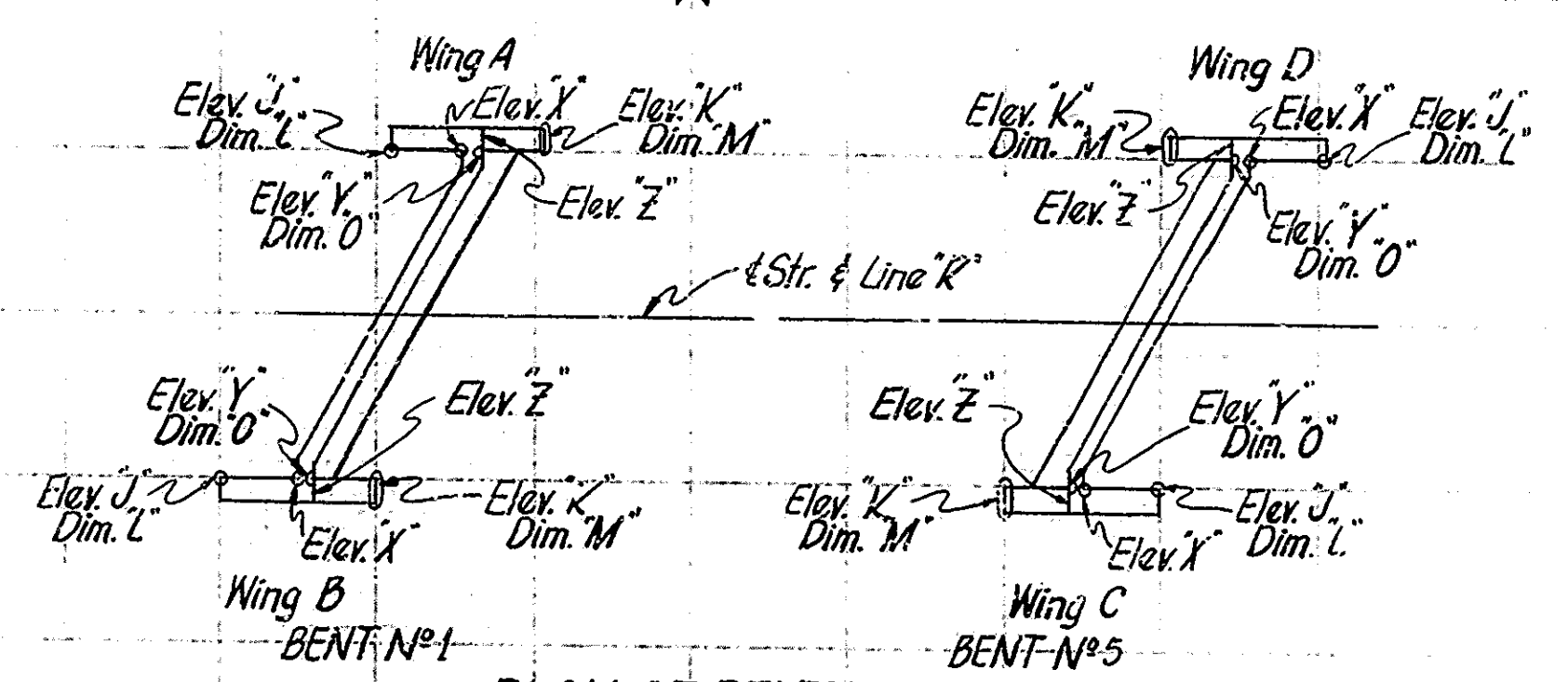
TABLE OF ELEVATIONS & DIMENSIONS

	EI. A	EI. B	EI. C	EI. D	EI. E	Dim. N
Bent No. 1	528.45	528.60	528.86	526.41	521.29	2'-7 1/8"
Bent No. 5	529.90	529.76	530.16	527.72	522.57	2'-7 1/8"



BILL OF MATERIALS
(BENT NO. 1, BENT NO. 5 same)

REINFORCING STEEL			
Size or Mark	Number of Bars	Length	Weight
#7	24	29'-0"	
total #7			1423 LB.
#5	20	12'-3"	
total #5			256 LB.
401b	96	3'-8"	
402b	38	8'-0"	
403b	53	13'-0"	
404b	6	5'-4"	
405b	13	3'-9"	
406b	10	4'-6"	
407b	10	4'-2"	
#4	2	28'-6"	
#4	8	26'-6"	
#4	12	12'-3"	
#4	2	7'-6"	
#4	22	7'-3"	
#4	18	6'-0"	
#4	2	5'-3"	
total #4			1484 LB.
Total Reinf. Steel 3163 LB.			
CONCRETE			
Class "A" in substr.			
Pour No. 1			16.4 CU.YD.
Pour No. 2L			5.6 CU.YD.
Pour No. 2R			5.6 CU.YD.
Total Class "A" in substr.			27.6 CU.YD.
MISCELLANEOUS			
Anchor Plate M-AP3			7 ea.
7-14" x 25'-0" L.F. (47 Ga) Steel Enc. Conc. Piles			175 L.F.



WINGWALL ELEVATIONS & DIMENSIONS

	Elev. J	Elev. K	Elev. Y	Elev. Z	Elev. X
Bl. No. 1 Wing A	528.88	528.905	528.910	527.62	527.66
Bl. No. 1 Wing B	528.72	528.760	528.770	527.48	527.50
Bl. No. 5 Wing C	530.10	530.070	530.065	528.77	528.75
Bl. No. 5 Wing D	530.26	530.215	530.205	528.91	528.89

	Dim. L	Dim. O	Dim. M
Bl. No. 1 Wing A	7'-7"	7'-7 1/8"	6'-4 1/8"
Bl. No. 1 Wing B	7'-5 1/2"	7'-5 1/2"	6'-2 1/2"
Bl. No. 5 Wing C	7'-6 1/2"	7'-5 1/2"	6'-1 1/2"
Bl. No. 5 Wing D	7'-8 1/2"	7'-7 1/8"	6'-3 1/2"

Notes:
For Reinf. Bar Notes, see Br. Sd. G.
For additional details, see Drwg. S₃.

BENTS NO. 1 & NO. 5 DETAILS
&
BILL OF MATERIALS

INDIANA STATE HIGHWAY COMMISSION

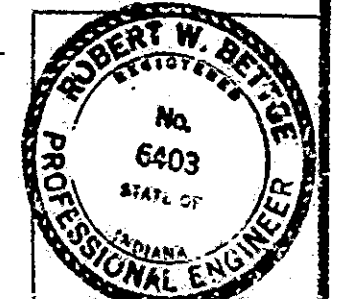
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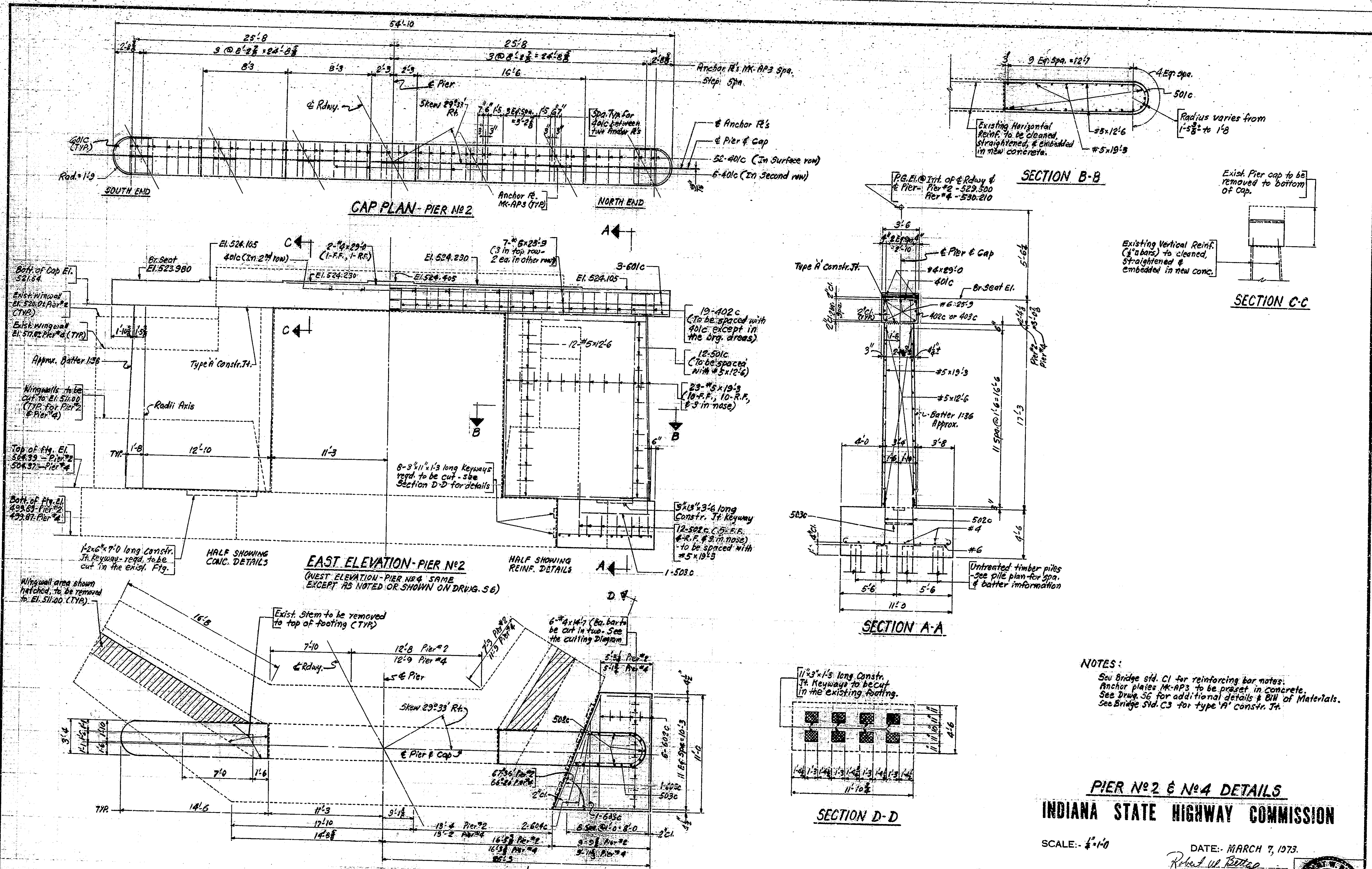
RECOMMENDED FOR APPROVAL: Robert W. Betteg
REGISTERED PROFESSIONAL ENGINEER

DRAWING: 54 OF 12 SHEET 6 OF 40

PROJECT: 57-135F CONTRACT NO. B-7927 BRIDGE FILE: 67-60-176B

DESIGNED: C.K.D.
DRAWN: K.L.L. 1-19-72
TRACED: C.K.D.



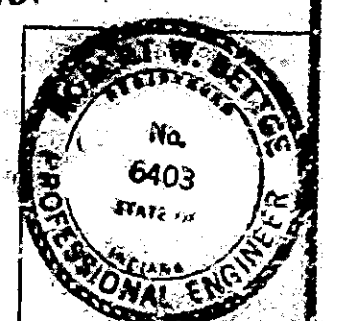


NOTES:
 See Bridge Std. C1 for reinforcing bar notes.
 Anchor plates MK-AP3 to be preset in concrete.
 See Draw. 56 for additional details & Bill of Materials.
 See Bridge Std. C3 for type 'A' constr. Jt.

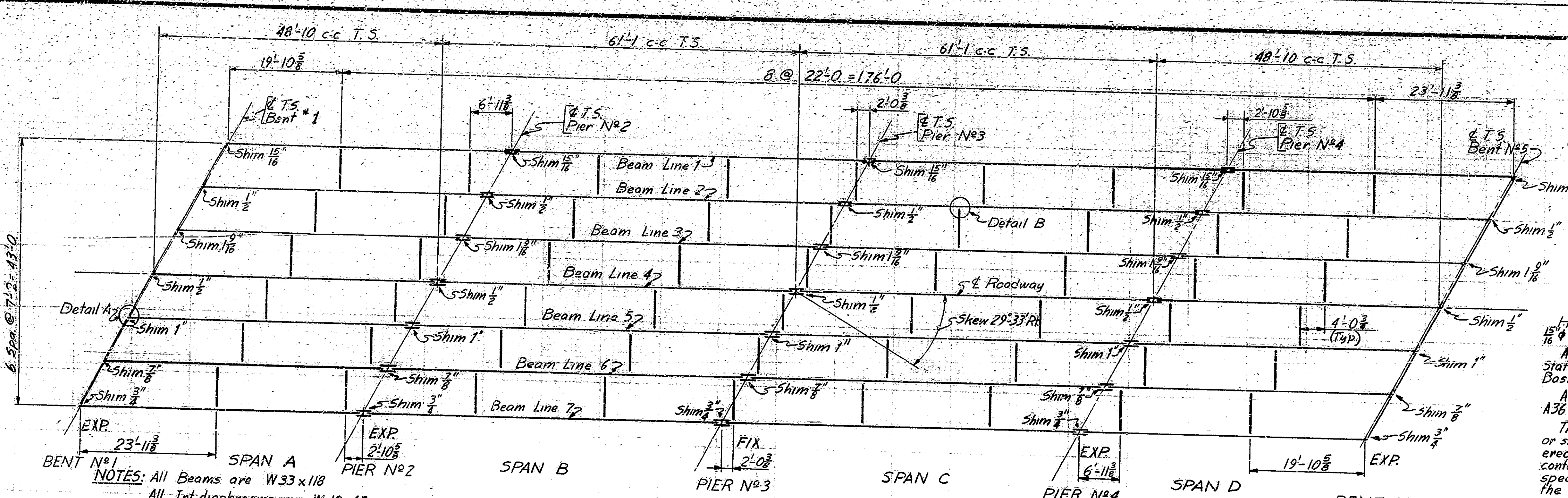
PIER No. 2 & No. 4 DETAILS
INDIANA STATE HIGHWAY COMMISSION

SCALE: 1/4"=1'-0"
 DATE: MARCH 7, 1973

DESIGNED: CKD
 DRAWN: BKL 1-15-73
 TRACED: CKD
 PROJECT: 57-135F
 CONTRACT NO: B-7727
 BRIDGE FILE: 67-60-176B



DESIGNED: CKD
 DRAWN: BKL 1-15-73
 TRACED: CKD

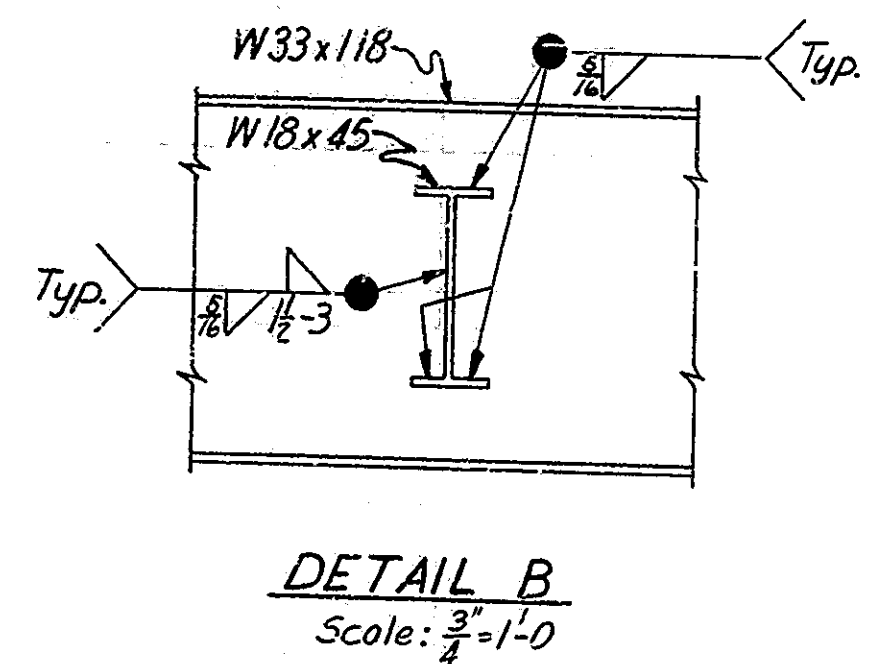
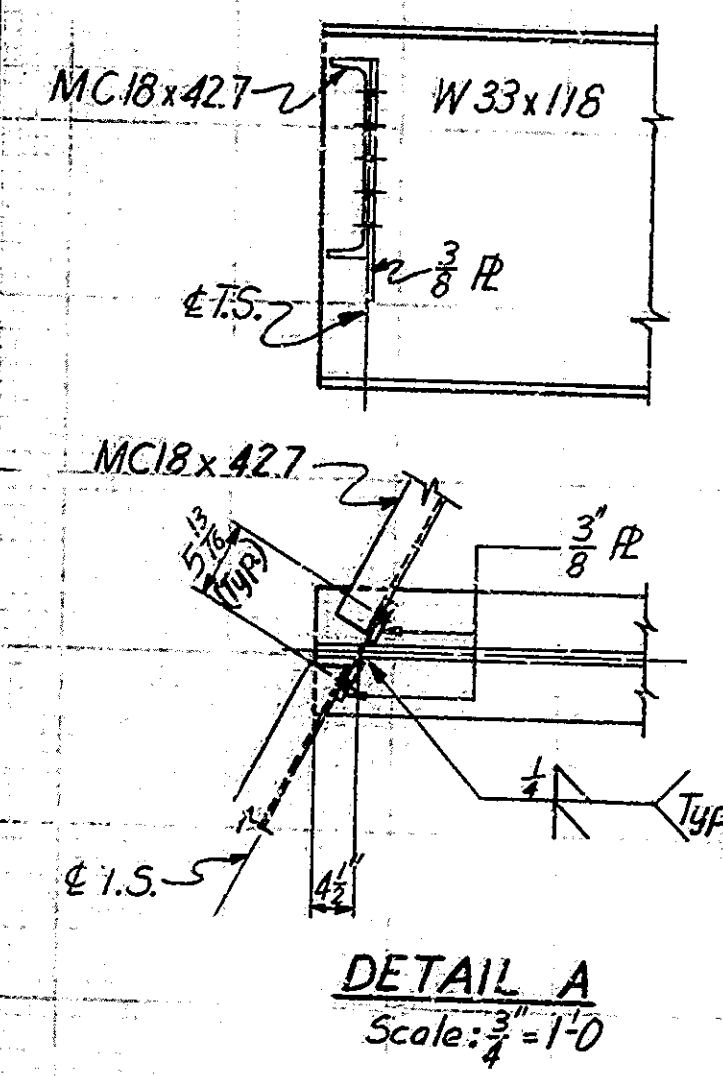


DATA USED FOR DESIGN AND DETAILS
LIVE LOADS: HS20-44 loading with impact and distribution of loads in accordance with 1973 AASHTO Specifications.
DEAD LOAD: Actual weight plus 35 pounds per square foot of roadway to provide for future wearing surface.
FLOOR SLAB: Designed for 16,000 pound wheel plus impact, and with 1 monolithic wearing surface.
ALLOWABLE STRESSES: To be in accordance with the 1973 AASHTO Specifications.

FABRICATION & ERECTION NOTES
 High strength bolts $\frac{7}{8}$ " unless noted; open holes $\frac{1}{16}$ " unless noted.
 All paint shall be in accordance with current State Highway Specifications: Shop Paint; Field Paint; Basic Lead Silico Chromate.
 All Structural Steel shall conform to ASTM-A36 unless otherwise noted.
 The contractor shall prepare detailed working or shop drawings to enable him to fabricate, erect, and construct all parts of the work in conformity with the Engineer's drawings and specifications and shall submit four (4) copies to the Engineer. See Article 711.04 of the Specification.
 The shop details shall show a plan of match-marking for all reamed pieces.
 All splice plates to be removed, cleaned, and deburred after reaming. Splice plates shall not extend beyond the end of beam after bolting for shipment.
 The shop plans shall indicate whether reaming is to be done in shop or field. If shop reaming or drilling is used, the beams may be reamed with the webs either in a horizontal or vertical position. If the beams are reamed with the webs vertical, they shall be supported relative to their final erection position. If they are reamed with the webs horizontal, a minimum of one line of beams shall be shop assembled in accordance with blocking diagram for webs vertical and inspected for fit.
 Beams for Spans A & D to be straight within a tolerance of $\frac{3}{8}$ inch of center. If Camber exists, lay out beams with Camber up. Beams shall be checked for Camber while beams are supported in such a way as to have no bending moment in the direction of Camber.
 Beams for Span B & C must be cambered to a smooth curve. Camber must be checked while beams are supported in such a way as to have no bending moment in the direction of camber.
 Holes for beam splices and splice plate shall be subpunched or subdrilled and reamed to size while assembled. See Article 711.2.4 of the Specifications. Flange splice bars shall have planed or rolled edges and holes in bars shall be subdrilled and reamed or drilled full size while assembled.
 Diameter of holes in all materials connecting top shoes to beam flanges to be 1". Bolts connecting beam flange to top shoe shall extend into top shoe a minimum of 1 inch.
 Shims between beams and top shoe may be built up. No shim shall be less than $\frac{3}{8}$ thickness.
 Rivets shall not be used in the assembly of structural steel.
 As soon as the Engineer has approved the field welds, all welds and any surface from which the shop coat has been omitted or becomes worn off or has otherwise become defective shall be thoroughly cleaned of all charred paint or any foreign matter and completely covered with one coat of shop paint.
 Structural steel for welding may be flame cut if the flame cutting is mechanically guided. Hand flame cutting shall be used only when approved, and the surface is further treated by milling, grinding, or chipping and grinding.

NOTES: All Beams are W33x118
 All Int. diaphragms are W18x45
 All End diaphragms are MC18x42.7

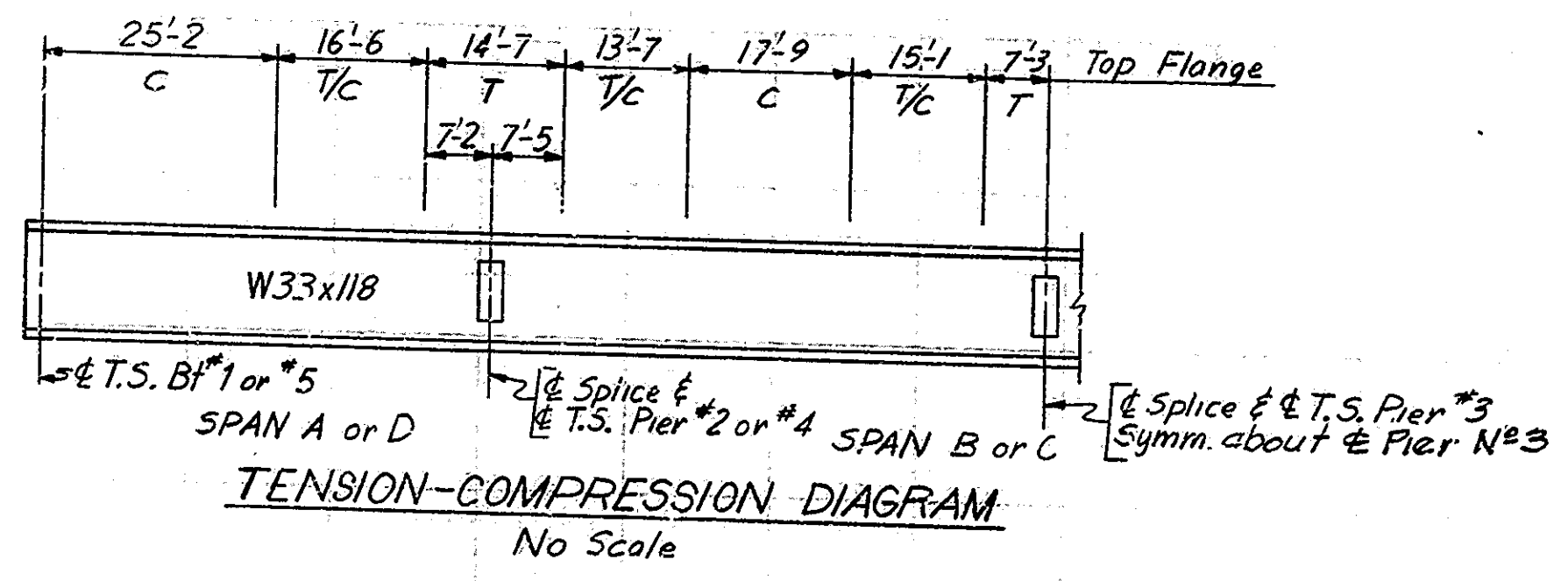
FRAMING PLAN
 Scale: 1"=10'-0"



DETAIL A
 Scale: $\frac{3}{4}$ "=1'-0"

DETAIL B
 Scale: $\frac{3}{4}$ "=1'-0"

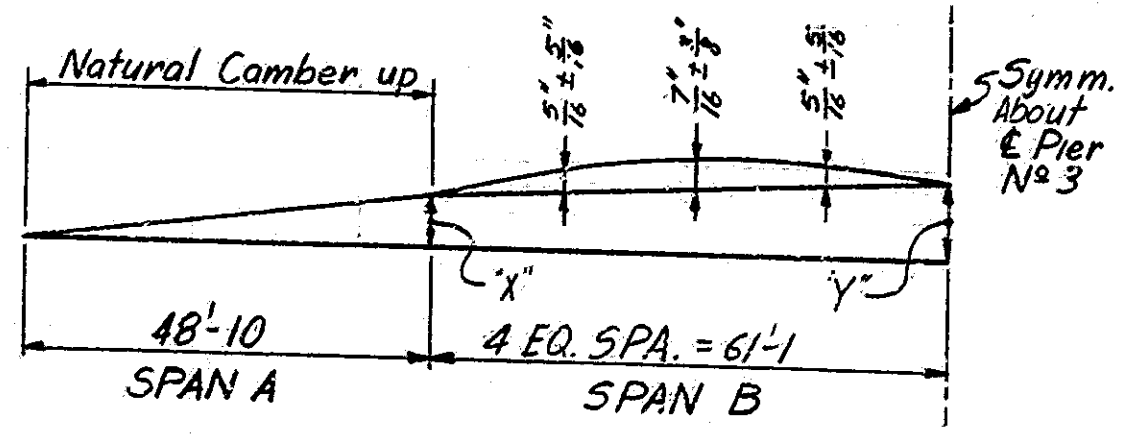
Note: Diaphragm connections to beams may be bolted in lieu of field welded connections. If the Contractor elects to use connections other than shown on the contract plans, he shall submit details to the Engineer for approval. He shall assume full responsibility for layout of all diaphragm connections and for the accuracy of all fitted parts. No increase in pay weight will be permitted.



TENSION-COMPRESSION DIAGRAM
 No Scale

FABRICATION AND ERECTION NOTES CONTINUED

Materials as listed on the shop drawings which do not require mill test reports may be changed from that shown on the contract plans subject to approval. The material specification shall be given on the shop drawings if different than that on contract plans. See art. 711.07 of Specifications.
 The weight of High Strength Bolts is not included in the estimated weight of structural steel. The cost of these bolts shall be included in the cost of structural steel.
 Estimated weight of structural steel = 235,600 lbs. (Includes 4,459 lbs. for A-588 Steel.)
 If beams are shop reamed or drilled, progressive beam assembly will be permitted. See Art. 711.44 of the specifications.



CAMBER & REAMING DIAGRAM
 No Scale

DIMENSION	X"	Y"
Web Horiz.	1 1/8"	2 3/8"
Web Vert.	0"	0"

BENT/PIER NO.	SHOE TYPE
1	E-1
2	E-2
3	F-1
4	E-2
5	E-1

Note: See Bridge Standard SH1 for Fix Shoe & Exp. Shoe Details.

For additional structural steel details, see Drwg. 59.

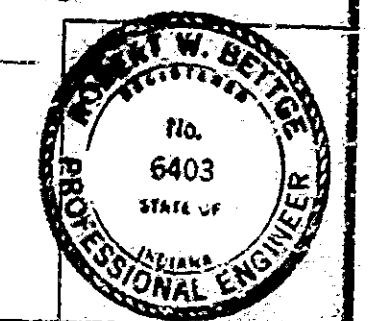
FRAMING PLAN

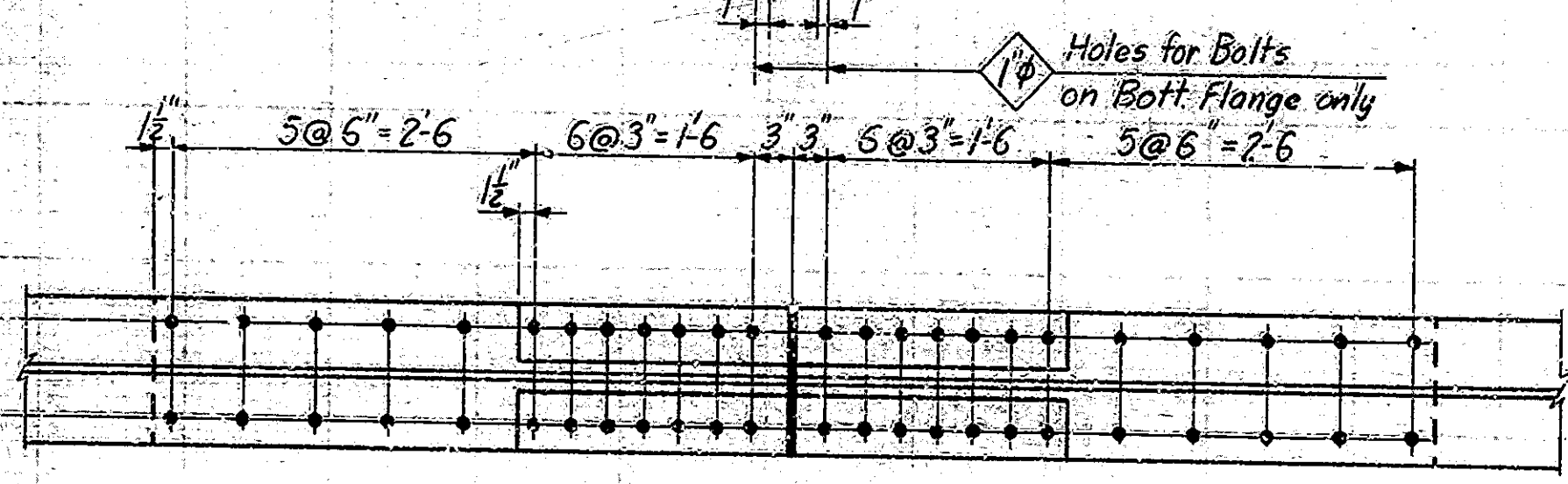
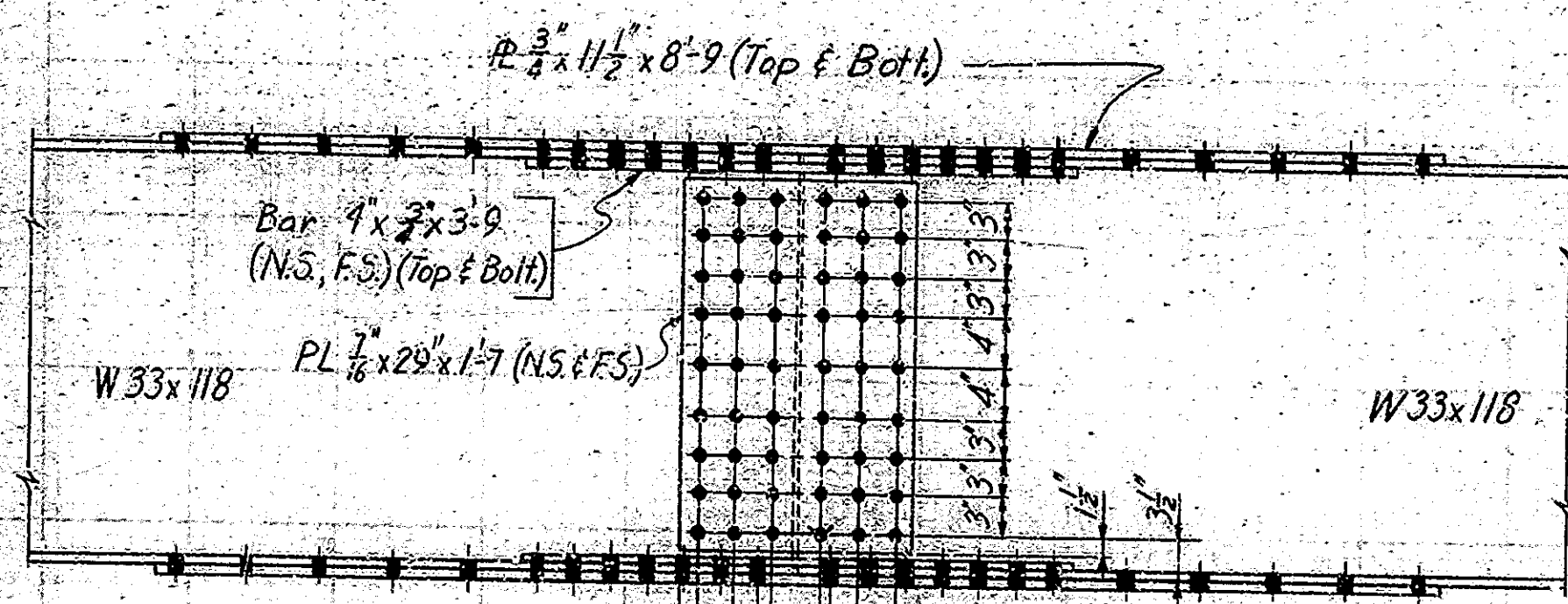
INDIANA STATE HIGHWAY COMMISSION

SCALE: AS NOTED DATE: MARCH 7, 1973

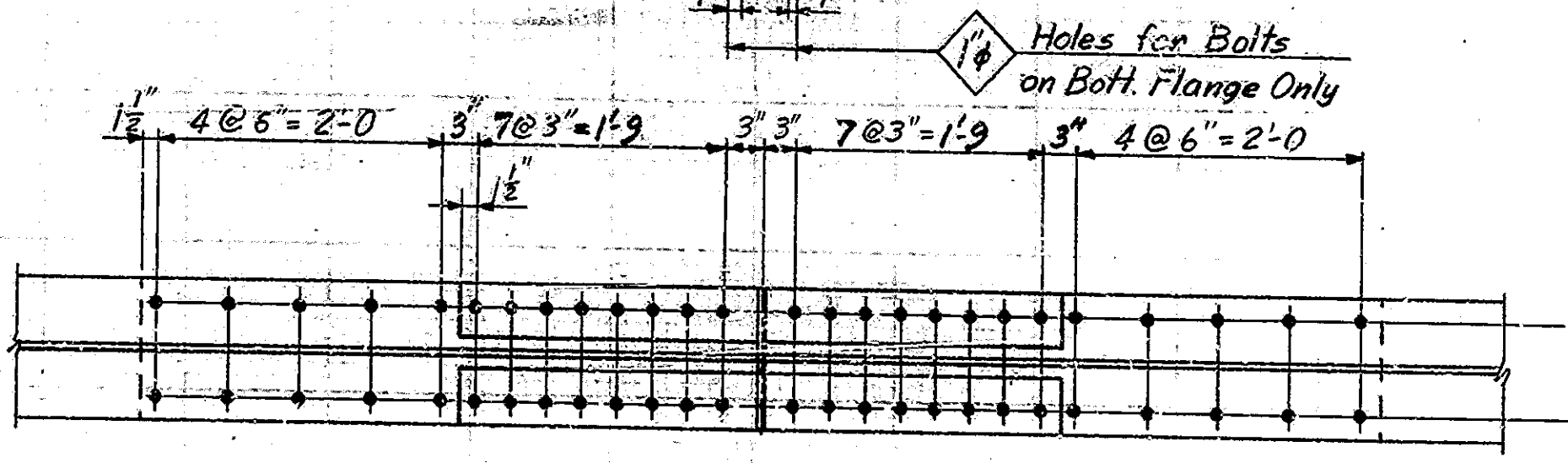
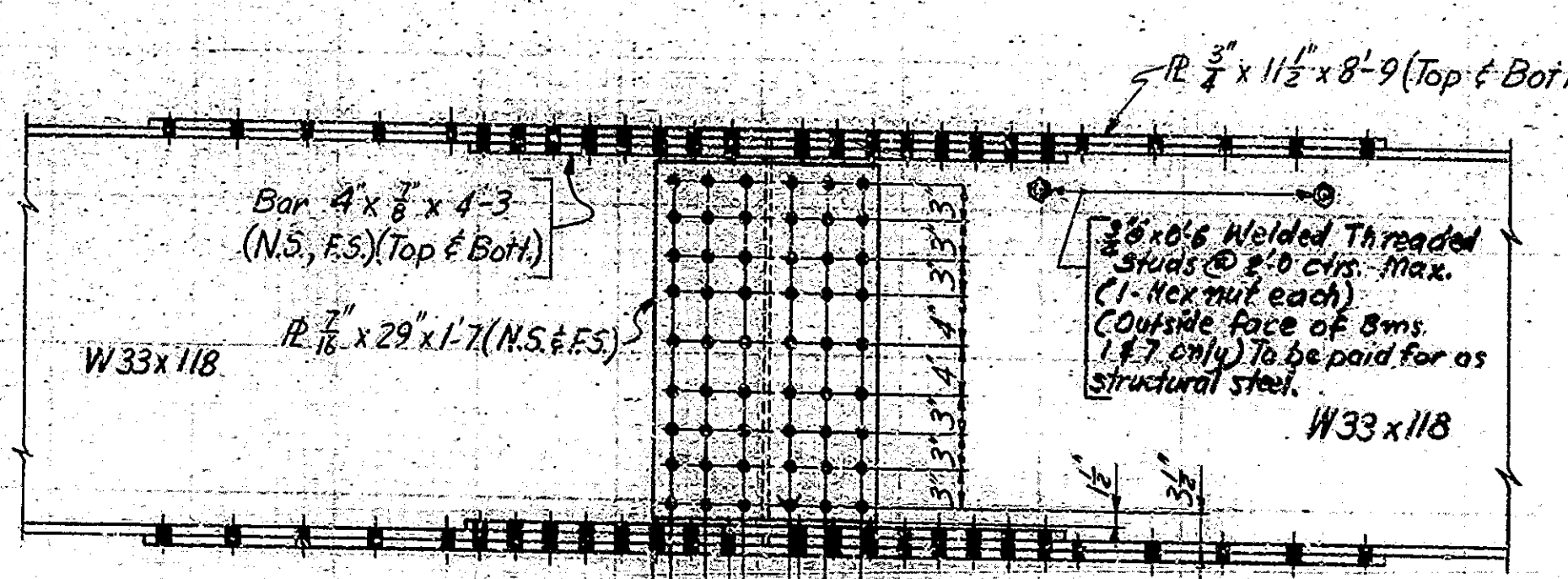
DESIGNED BY: 11-28-72 K.D. 15-72-8-72
 DRAWN BY: 12-19-72 C.K.D. 15-72-21-72
 TRACED: C.K.D.

PROJECT: 57-135 F
 CONTRACT NO. B-9927
 BRIDGE FILE: 67-60-176 B

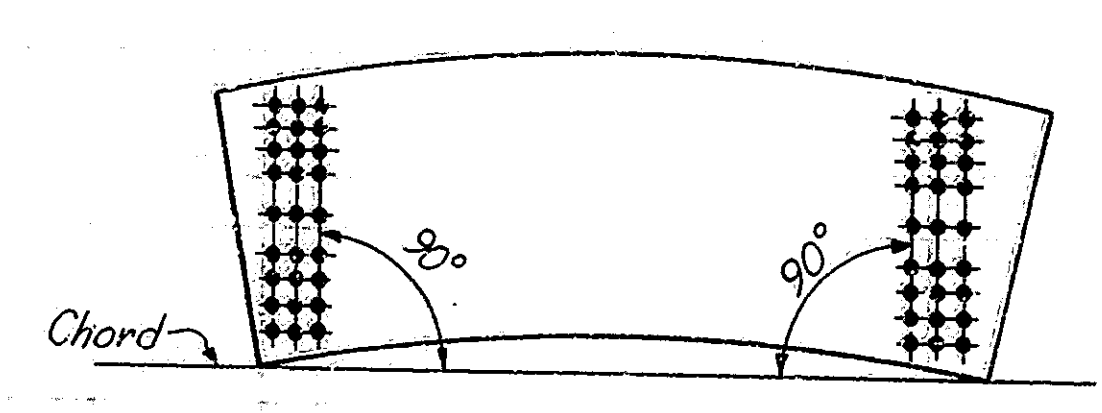




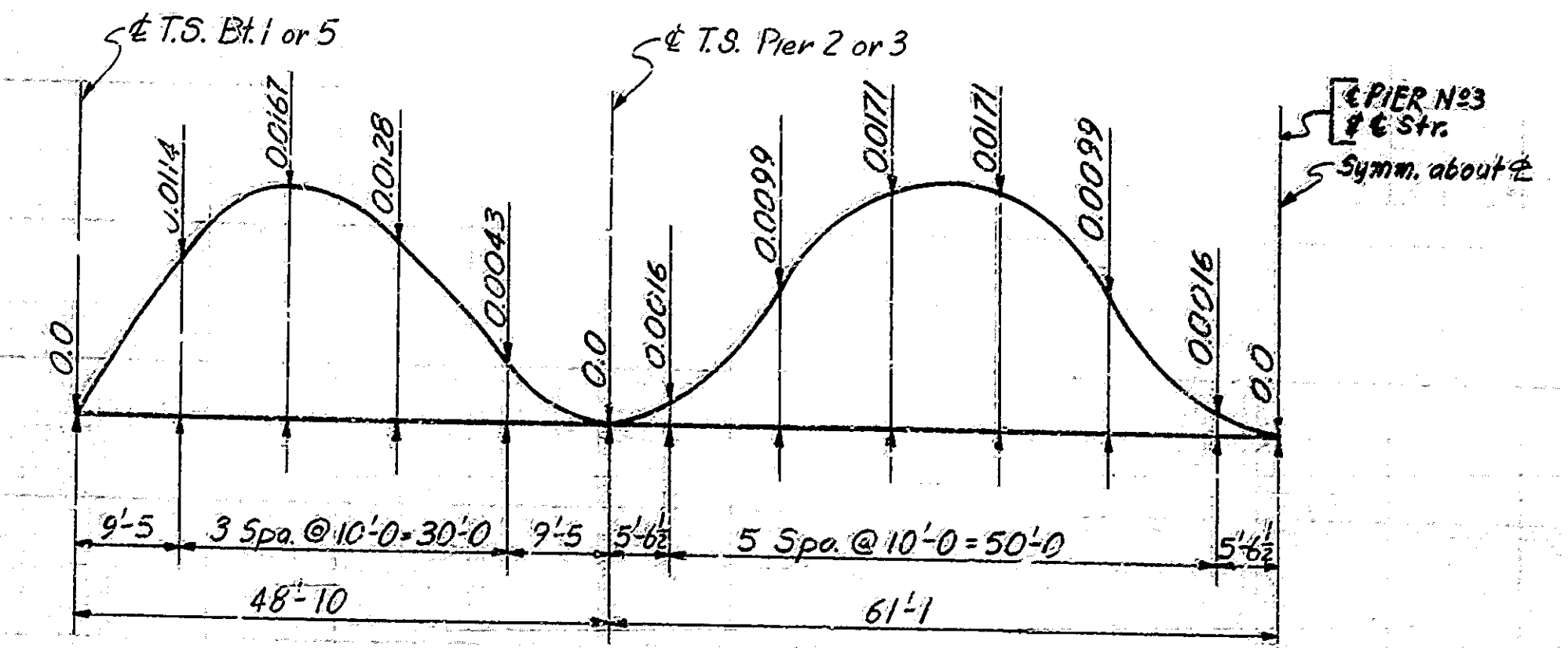
BEAM SPLICE DETAILS AT PIER N^o 2 & N^o 4
Scale: 1"=1'-0"



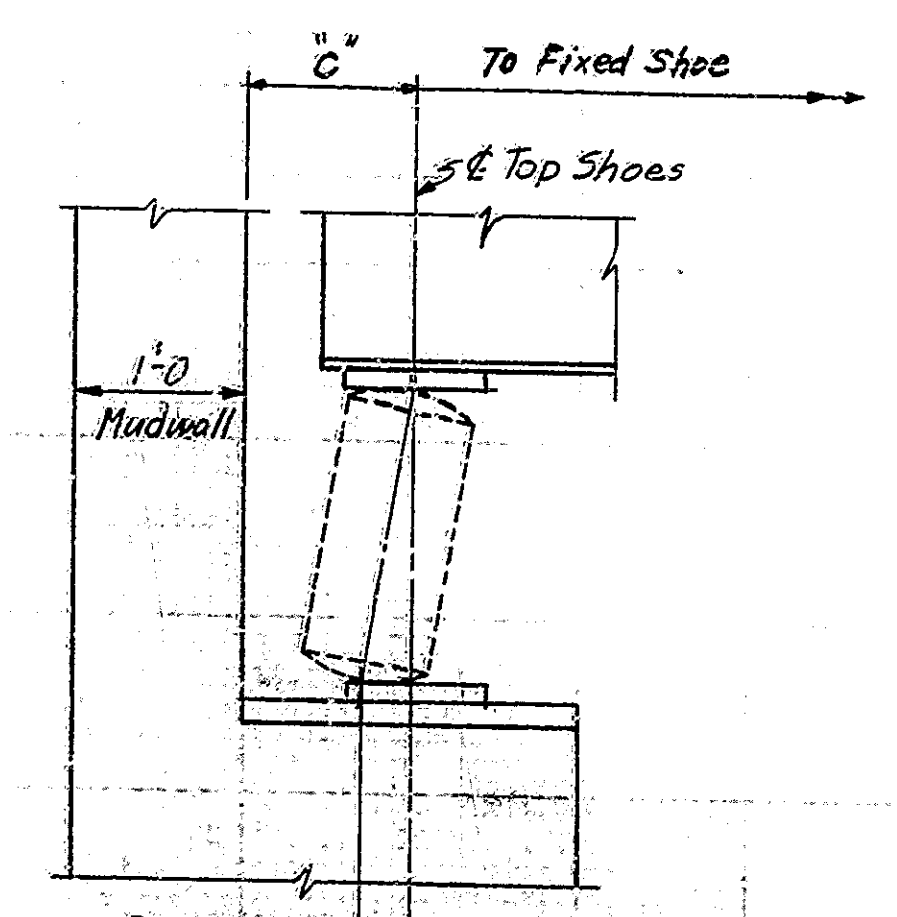
BEAM SPLICE DETAILS AT PIER N^o 3
Scale: 1"=1'-0"



SKETCH SHOWING PUNCHING OF BEAM WEBS
No Scale



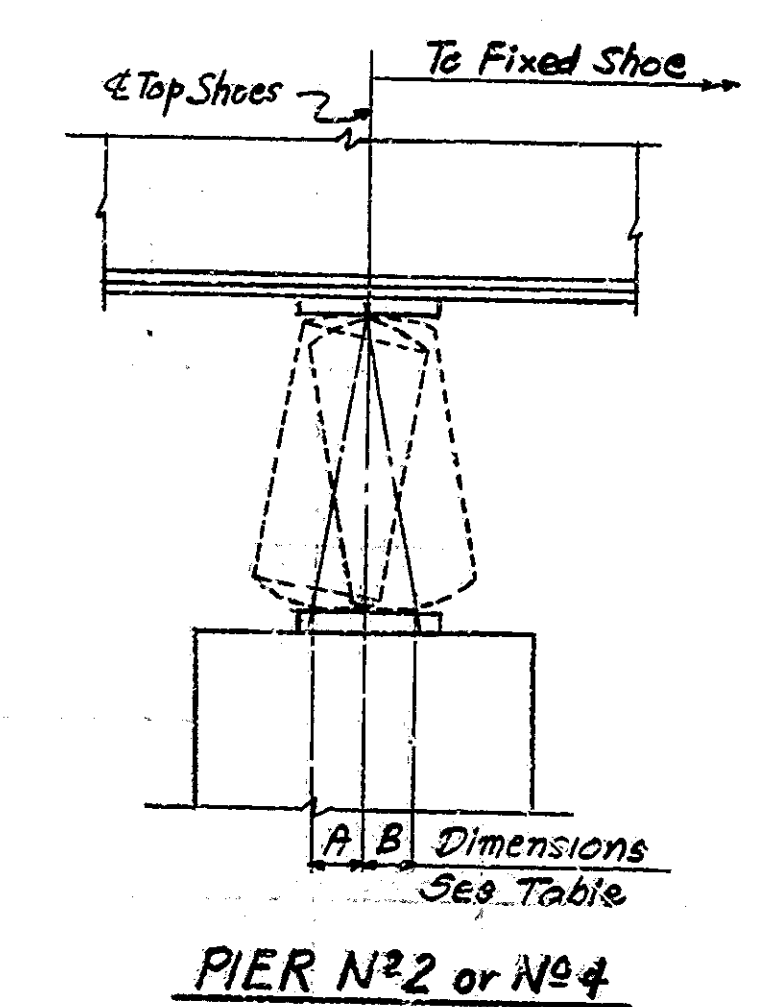
CONCRETE DEAD LOAD DEFLECTIONS (FT.)
No Scale



Dimensions A See Table Below
BENT N^o 1 or N^o 5

Location	Temp	Dimension A					Dimension B		
		0°	20°	40°	60°	80°	100°	120°	140°
Bents 1 & 5	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Bents 2 & 4	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"

EXPANSION SHOE SETTING
No Scale



Dimensions A See Table
PIER N^o 2 or N^o 4

GENERAL PROCEDURE

- After all structural steel has been erected, bolts tightened, and welding completed, adjust the superstructure longitudinally so that Dimension C from the ϵ Top Shoes to the face of Mudwall is equal at Bent N^o 1 and Bent N^o 5.
- With the superstructure in the adjusted position called for in (1), weld the Fixed Shoes to the Anchor Plates at Bent N^o 3.
- Adjust the Expansion Plates under each Expansion Shoe in accordance with Dimension A or B in table for the prevailing temperature. Note that Dimension A is always the distance from a vertical line through the ϵ Top Shoes in a direction away from the Fixed Shoe. Weld Expansion Plates to Anchor Plates.
- After the Shoes are set, Scribed Elevations shall be determined by adding concrete dead load deflections given on this drawing to the required final concrete elevations of all screed points. Take elevations at all screed points on top of beam adjacent to the screed point. Subtract these elevations from the elevations corrected for deflection, and use the resulting dimension as the height for setting the screed form above that point. This dimension remains constant regardless of how much or in what order the concrete is poured. Do not set screeds by leveling. Scribed elevations will be furnished upon request.
- No concrete in the floor is to be poured until the above operations have been completed.

For additional Steel Details and Fabrication Notes, see Drawg 58

STRUCTURAL STEEL DETAILS

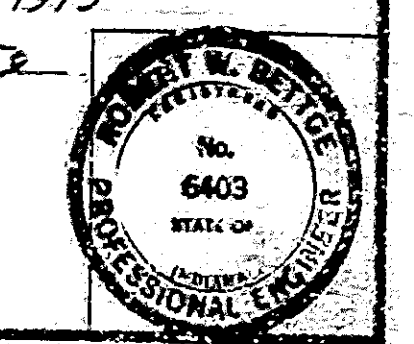
INDIANA STATE HIGHWAY COMMISSION

SCALE: AS NOTED

DATE: MARCH 7, 1973

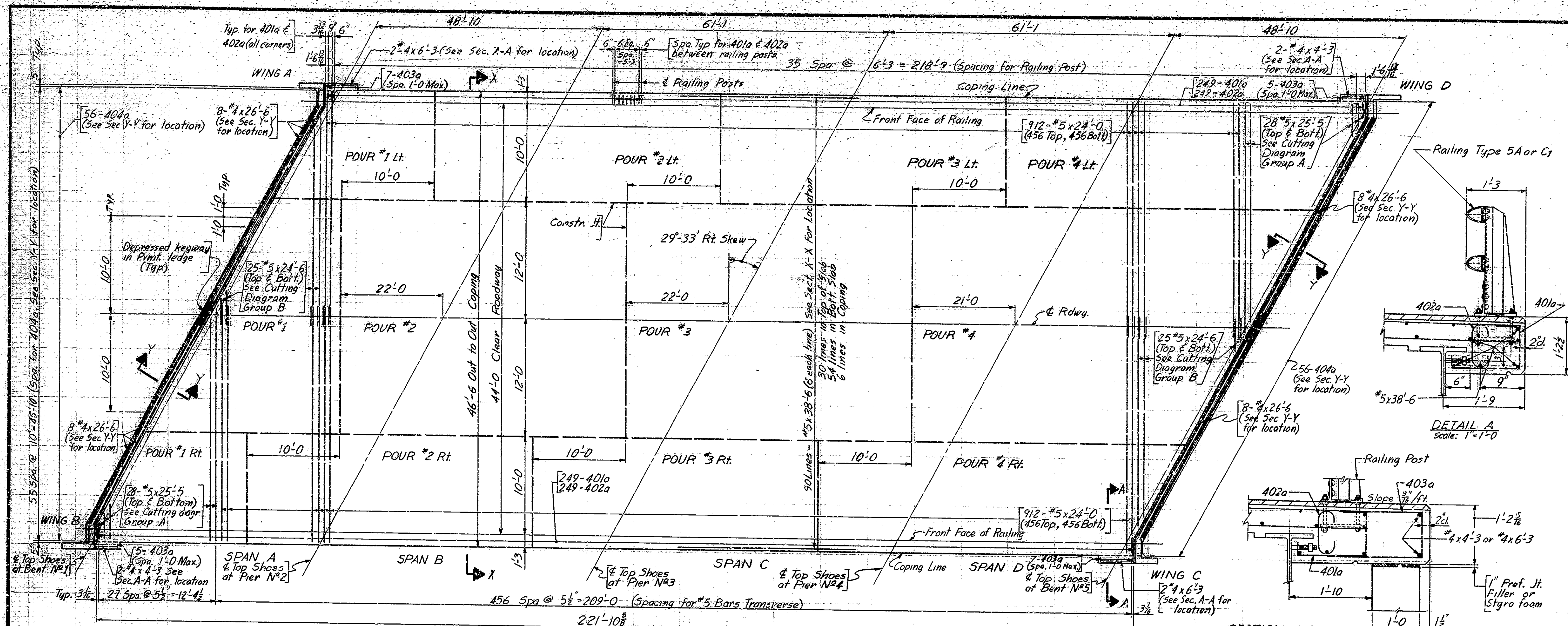
Robert W. Pettigrew

DRAWING: S₉ OF 12 SHEET: 11 OF 40
PROJECT: SF-135 F
CONTRACT NO. B-9927
BRIDGE FILE: 67-60-176B



DESIGNED BY: 11-17-72 R.W.P. & C.R.D.
DRAWN BY: 18-72 C.R.D. & R.B. 12-31-72
TRACED C.R.D.

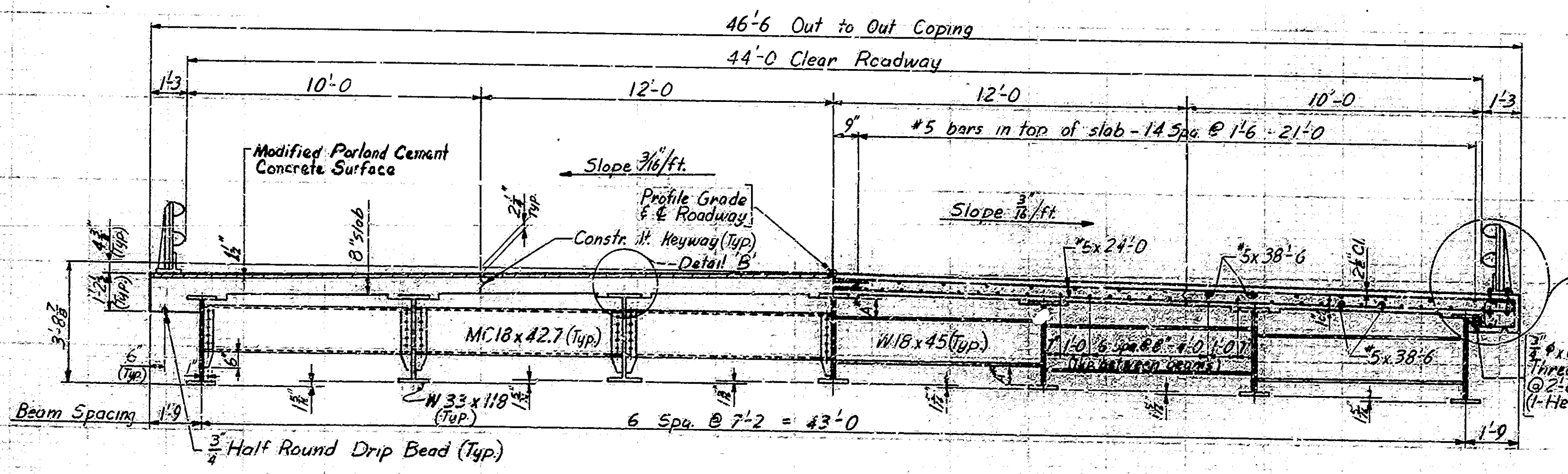
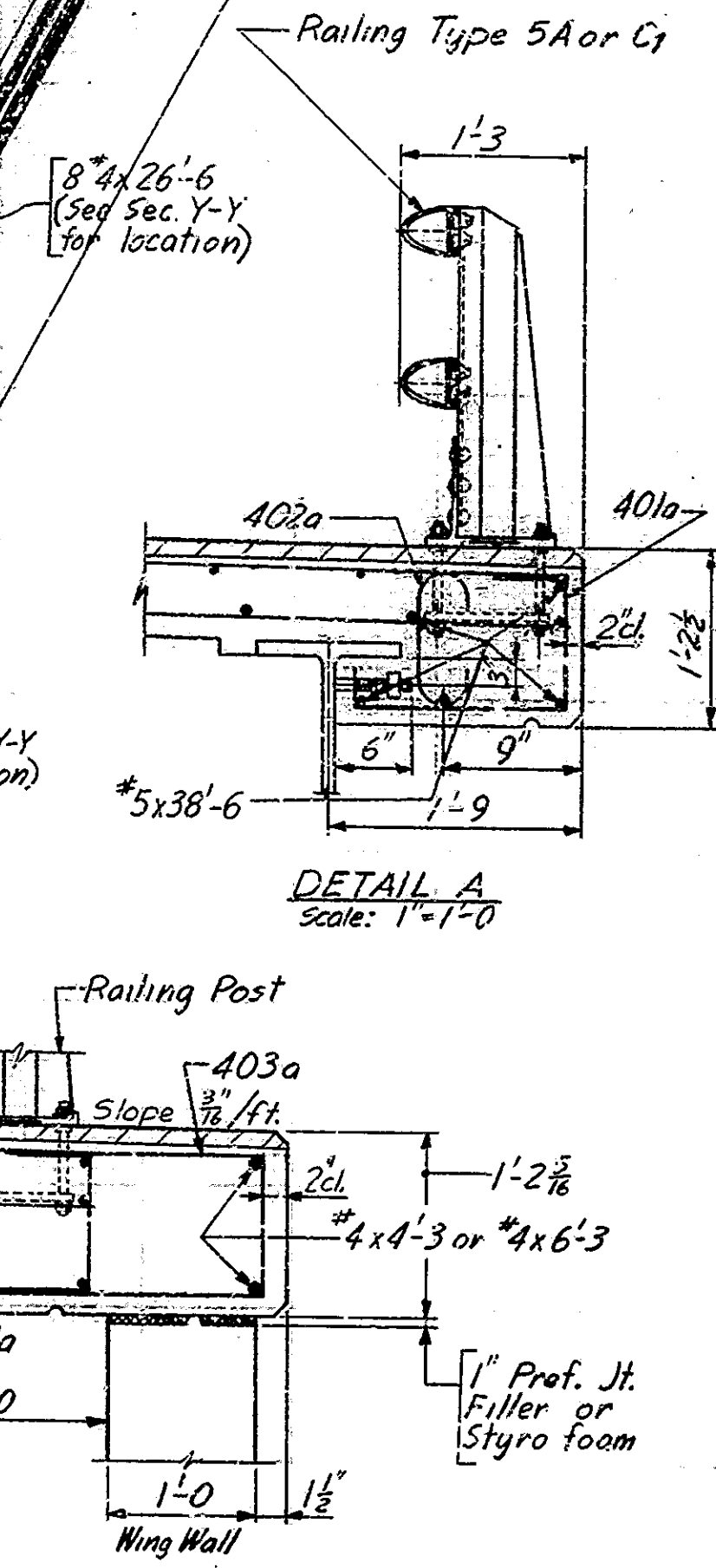
Rev. 9-24-74 Notes, Splices



Note: No 3 Bars 1'-6" Min. Lap. No payment for Lap.

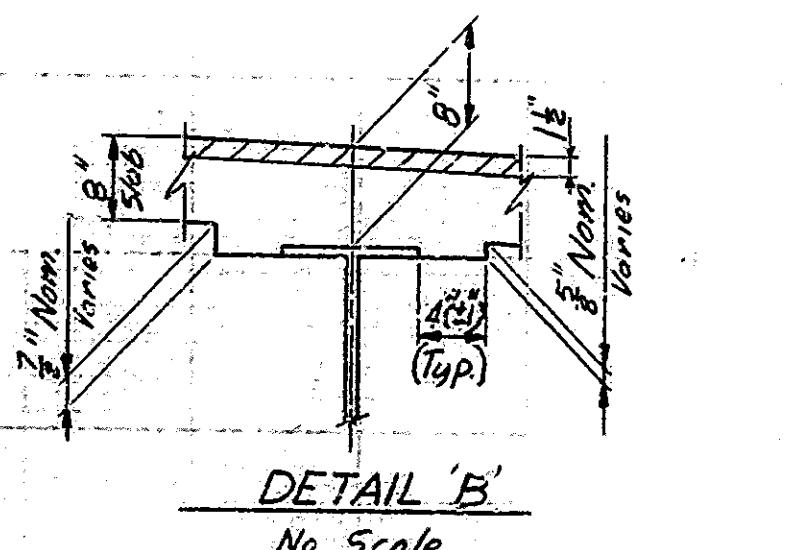
PLAN
No Scale

SECTION A-A
Scale: 1"=1'-0"

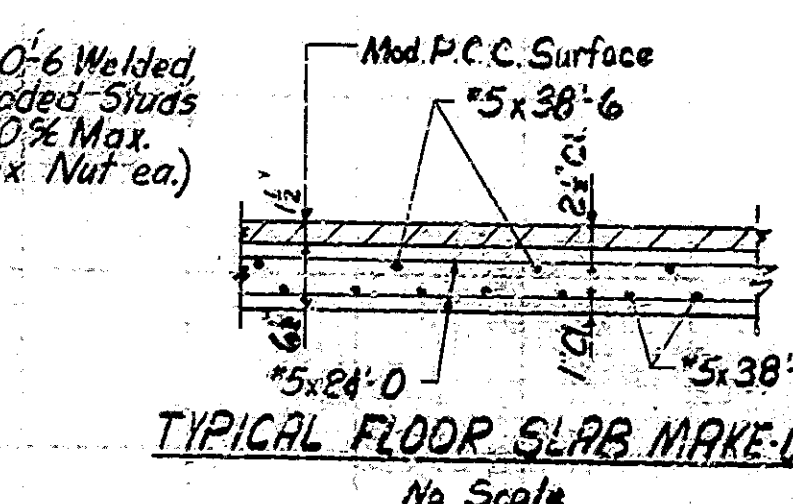


SECTION X-X
Scale: 3/8"=1'-0"

* Note: Interior Diaphragms to be erected so that dimension A (Top & Bottom) will be equal (± 1 inch).



DETAIL A
No Scale



TYPICAL FLOOR SLAB MAKE-UP
No Scale

NOTES

Top portion of Mudwall at Bents No 1 & No 5 shall not be poured until after floor slab has been poured.
 For section Y-Y, additional details & notes see Drawg. 511.
 After Structural Steel has been erected, concrete forms shall not be blocked against the expansion end of steel in making any pours adjacent to steel spans.
 Sequence of pours to be made in order of pour numbers. All superstructure construction joints are optional except as noted, and pours may be made continuous provided the pour terminates at a construction joint indicated on the plans. The Contractor may change the width of pours, sequence of pours, or location of construction joints subject to the approval of the Engineer.
 The top row of joint steel in the deck to be securely tied down to the beams and/or the forms to prevent lifting during concrete placement.

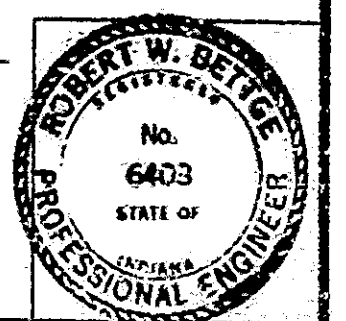
FLOOR DETAILS

INDIANA STATE HIGHWAY COMMISSION

SCALE: AS NOTED DATE: MARCH 7, 1973

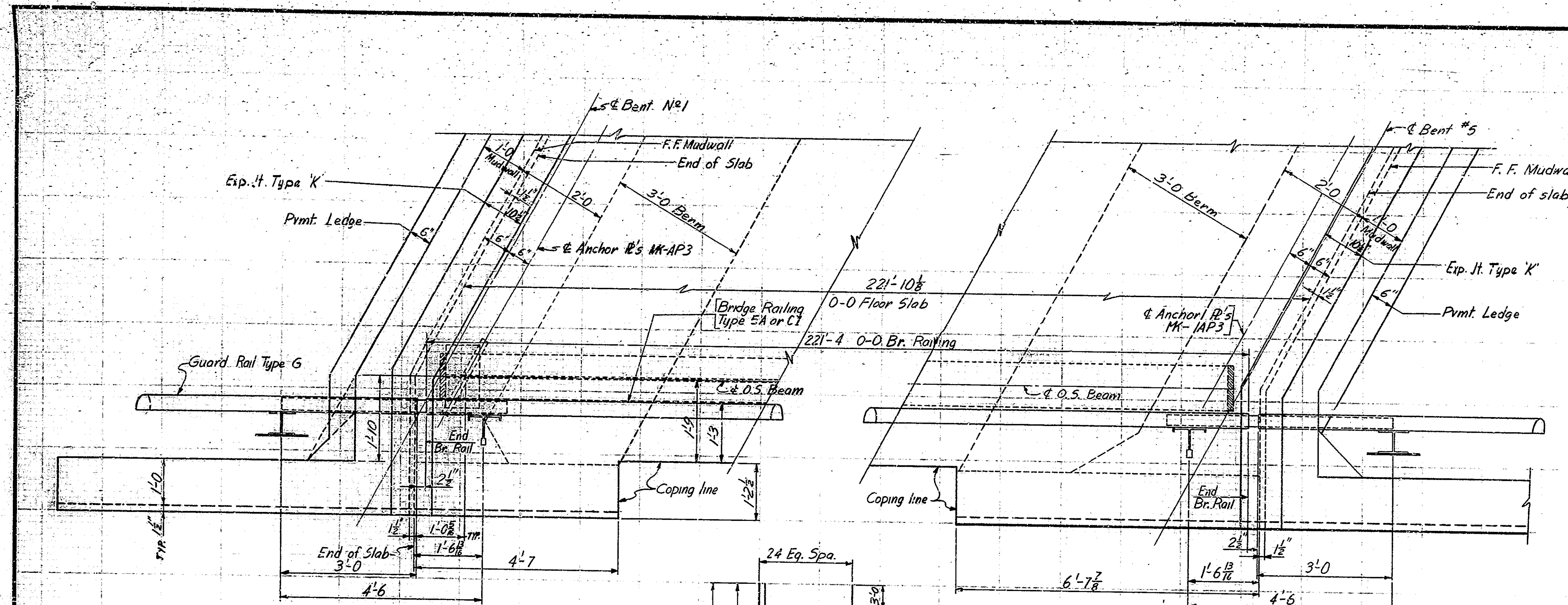
Robert W. Betteg
REGISTERED PROFESSIONAL ENGINEER

DRAWING: 510 OF 12 SHEET: 12 OF 40
 PROJECT: ST-135 F
 CONTRACT NO. B-9927
 BRIDGE FILE: 67-60-176B



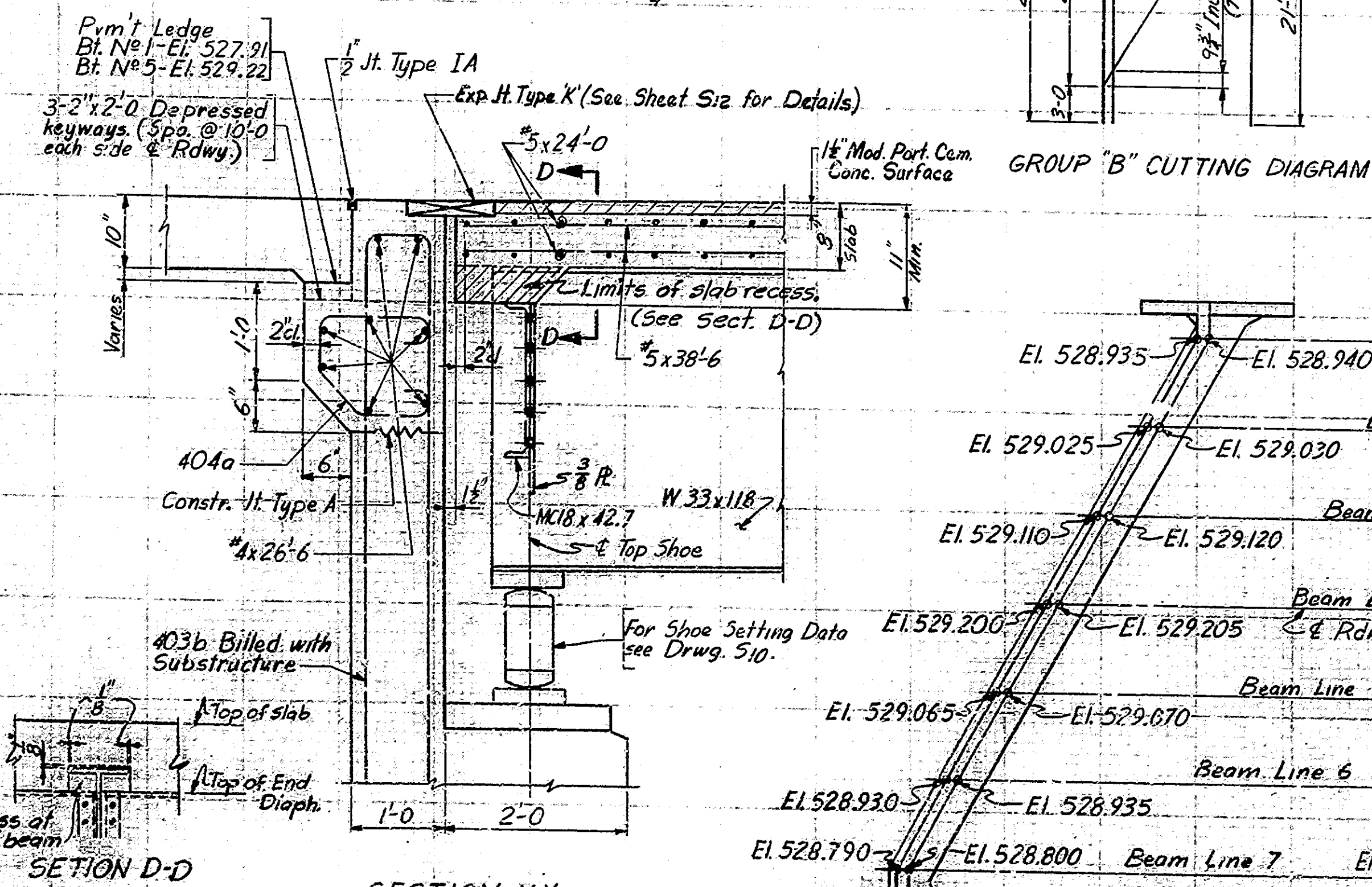
DESIGNED BY: J.L. 12-20-72
 DRAWN BY: J.L. 1-9-73
 TRACED: CRO

Rev. 9-26-74 Mod. P.C.C. Surface Filled Deck Paint. Notes



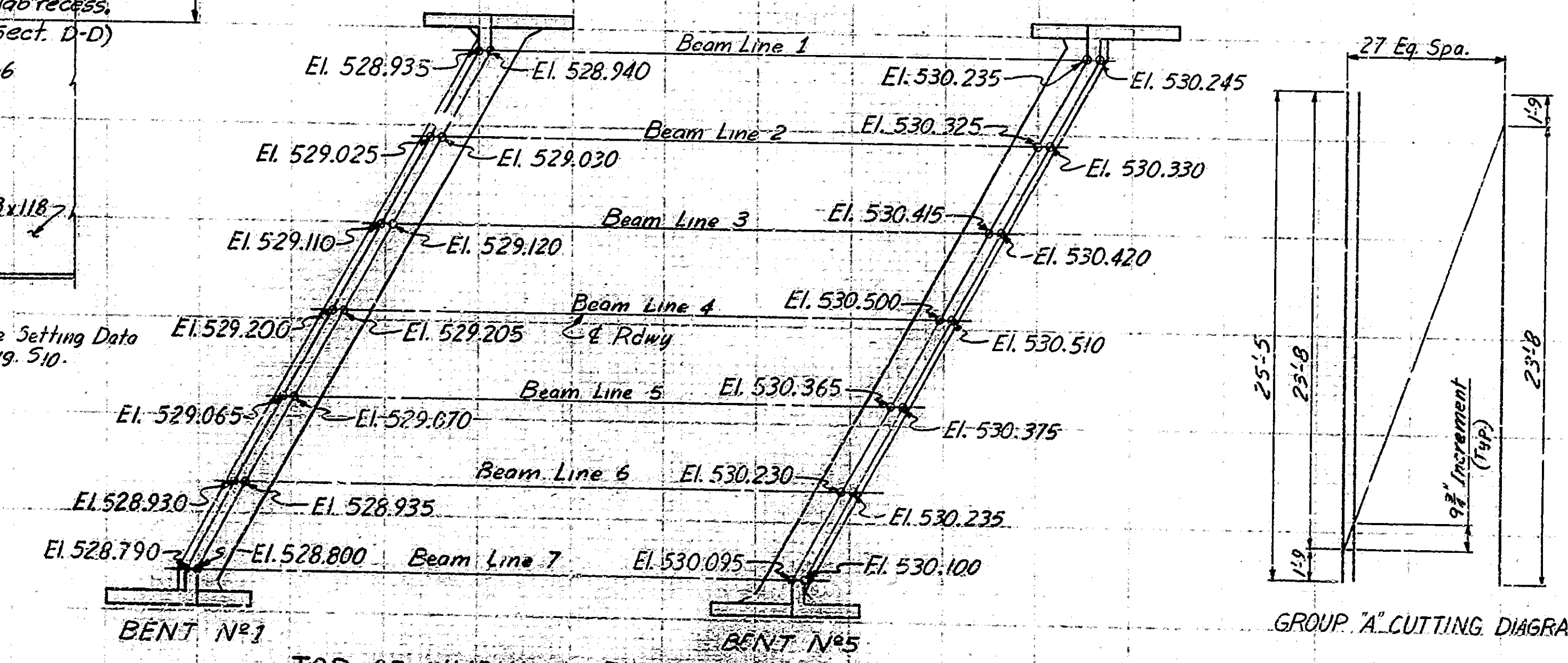
WING B DETAILS
(Wing D Same)
Scale: $\frac{3}{4}'' = 1'-0''$

WING C DETAILS
(Wing A Same)
Scale: $\frac{3}{4}'' = 1'-0''$

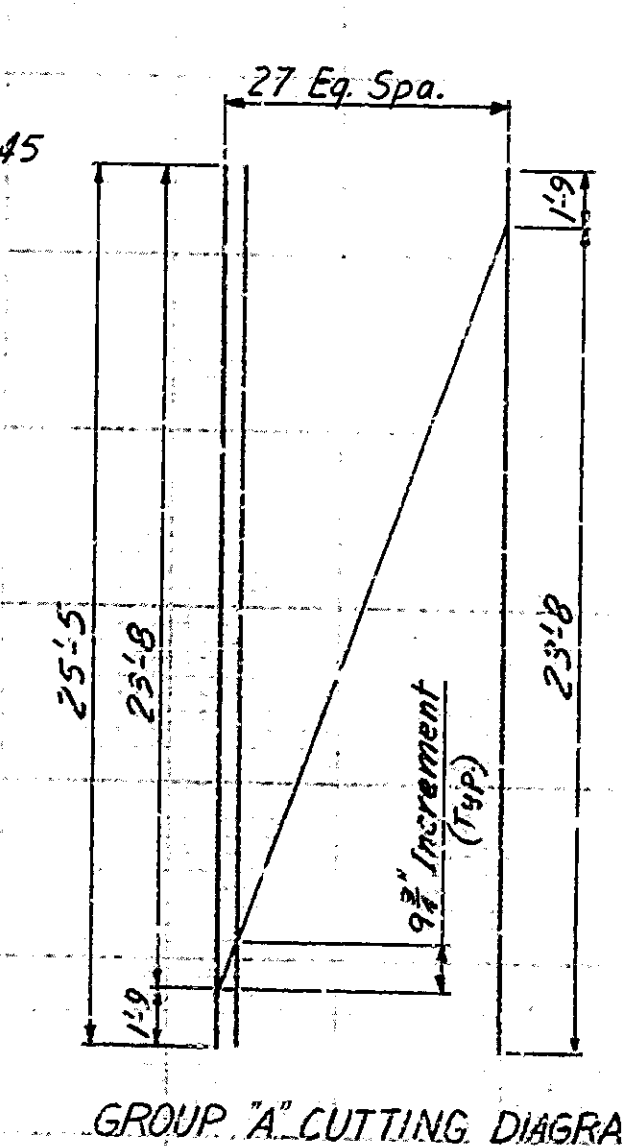


GROUP "B" CUTTING DIAGRAM

SECTION D-D
SECTION Y-Y
Scale: $1'' = 1'-0''$



TOP OF MUDWALL ELEVATIONS



GROUP "A" CUTTING DIAGRAM

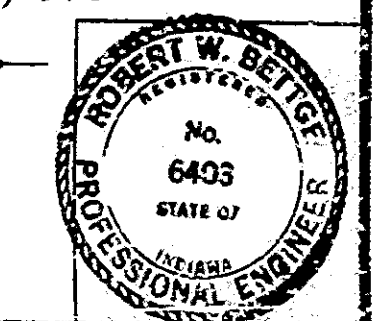
BILL OF MATERIALS

REINFORCING STEEL			
SIZE AND MARK	NO. OF BARS	LENGTH	WEIGHT (LBS)
#5	540	38'-6"	
#5	56	25'-5"	
#5	50	24'-6"	
#5	1024	24'-0"	
TOTAL #5 STEEL			70,105
401a	438	3'-2"	
402a	438	1'-11"	
403a	24	5'-2"	
404a	112	4'-1"	
#4	32	26'-6"	
#4	4	6'-3"	
#4	4	3'-3"	
TOTAL #4 STEEL			2,674
TOTAL REINFORCING STEEL			72,779
CONCRETE			
Conc. Class "C" in Superstr.			
Pour No 1 Lt.			7.6 Cu. yds.
Pour No 1 Rt.			4.1 Cu. yds.
Pour No 1 Rt.			7.8 Cu. yds.
Pour No 2 Lt.			16.0 Cu. yds.
Pour No 2 Rt.			29.7 Cu. yds.
Pour No 3 Lt.			16.0 Cu. yds.
Pour No 3 Rt.			16.4 Cu. yds.
Pour No 3 Rt.			30.2 Cu. yds.
Pour No 4 Lt.			16.4 Cu. yds.
Pour No 4 Lt.			19.0 Cu. yds.
Pour No 4 Rt.			35.0 Cu. yds.
Pour No 4 Rt.			19.0 Cu. yds.
Mudwall @ Bent No 1			6.1 Cu. yds.
Mudwall @ Bent No 2			6.1 Cu. yds.
Total Conc. Class "C" in Superstr.			239.4 Cu. yds.
MISCELLANEOUS			
Bridge Railing Type 5A or CI			443 L. Ft.
Expansion Joint Type "R"			111 L. Ft.
Modified Portland Cement			
Concrete Surface			14.7 Cu. Yds.
Finishing & Curing			1744 Sq. Yds.

Notes:
For Reinforcing Bar Notes, see Br. Std. C.
For additional details see Drwg. 510.

FLOOR DETAILS & BILL OF MATERIALS
INDIANA STATE HIGHWAY COMMISSION

SCALE: AS NOTED
DATE: MARCH 7, 1973
DRAWING: 511 OF 12
PROJECT: 57-135 F
CONTRACT NO. B-9927
BRIDGE FILE: 67-60-176B



DESIGNED: BRL/2-27-72
DRAWN: L-15-72
CHECKED: BRL/1-18-73
TRACED: CWD

ITEM	CONCRETE				CONCRETE RAILING CLASS A		STRUCTURE										QUANTITIES									
	CLASS C SUPERSTR	CLASS A SUBSTR	CLASS B ABOVE FTG.	CLASS B IN FTG.	CU YDS.	LN. FT.	REINF. STEEL TOTAL	STRUCT. STEEL ***	ANCHOR RODS MK-AR	ANCHOR PLATES MK-AP	UNTREATED TIMBER	TREATED TIMBER	1/4" STEEL ENCASED PILES	STEEL-N BEARING	CAST IRON DRAIN PIPE	CAST IRON GRATES, BASINS & FITTINGS	RAILING TYPE SA OR C	TYPE W EXP. JOINT	Modified Portland Cem. Conc. Surface	Finishing and Curbing						
	CU. YDS.	CU. YDS.	CU. YDS.	CU. YDS.	CU. YDS.	LN. FT.	LBS.	LBS.	EACH	EACH	NO.	LN. FT.	NO.	LN. FT.	NO.	LN. FT.	LN. FT.	LN. FT.	CU. YDS.	SO. YDS.						
SUBSTRUCTURE																										
BENT NO. 1		27.6					3,163		7					7	175											
PIER NO. 2		17.7	55.9	13.6			2,776		7	9	180															
PIER NO. 3		29.6	66.8	22.3			3,659		7	16	320															
PIER NO. 4		22.8	55.9	13.6			2,812		7	9	180															
BENT NO. 5		27.6					3,163		7					7	175											
SUPERSTRUCTURE																										
	239.4						72,779	235,600									443	111	477	1144						
TOTALS																										
	239.4	124.3	178.6	49.5			94,021	235,600		35	34	680		14	350		443	111	477	1144						

LOCATION	DESCRIPTION	WIDTH	RADII	GRADE	LENGTH	DIST.	EXCAVATION	BITUM. SURFACE	BITUM. BASE	COMP. AGG. BASE			
LT/RT	STATION	FT.	FT.	%	FT.	BY	CUT	#SQ. YD.	TONS	#SQ. YD.	TONS	DEPTH (IN.)	TONS
LT	274+44	20	20x5	10	148	85	—	110	6.9	220	17.9	3	20.0
RT	274+44	20	20x5	10	68	—	—	110	9.4	220	18.8	3	21.5
RT	278+00	12	15x25	10	166	—	3	65					
TOTALS								3	271	18.3	36.7	41.5	

LT OR RT	STATION TO STATION	TYPE	PAVED SIDE DITCH (LN. FT.)					SODDING (SQ. YD.)				TOTAL SOD	
			PAY LENGTH	NO. OF LUGS	PAY LENGTH	CUT OFF WALLS	PAY LENGTH	TOTAL PAY LENGTH	FOR PSD	FOR DITCHES	SHOULDERS		OTHER
LT	277+05 - 279+37	"A"	232	6	24	2	10	266					69
RT	276+34 - 278+86	"A"	132	4	16	2	10	158	39				39
RT	278+14 - 278+20	"A"	6	—	—	1	5	11	2				2
VERT.	274+30 - 274+90										24		24
VERT.	277+69 - 278+00										18		18
VERT.	Bridge Cones											65	65
TOTALS								435				217	

STRUCT. NO.	LOCATION	APPROACH DESCRIPTION		STRUCTURES				REMARKS	
		SIZE	KIND	LENGTH LN. FT.	CONCR. CL. A IN STRS. CU. YDS.	REINF. STEEL LBS.	PIPE END SEC. EACH		WALL THICKNESS INCHES
11	275+15	6"	FBC Perf. CS Pipe	70				0.062	
12	277+42	6"	FBC Perf. CS Pipe	72				0.052	1-90° Bend Req'd.
13	278+00 Rt.	15"	Group D Pipe	22			2	0.064-05	
TOTALS									

DECEMBER 1, 1971

CONSTRUCTION IDENTIFICATION SIGNS	EACH	* Signs XM-6
		* Signs XM-7
		* Signs XM-8

* Not a pay item. Place as directed by the engineer.

NOTES:
 Weight of Spirals includes weight of 1/2 extra turns top and bottom.
 Spirals and 1 1/2 turns of base included in cost of Spiral.
 *** - The weight of structural steel is approximate only, and it shall be the Contractor's responsibility to determine the weight on which he bases his bid.
 For Test for Samples See Bridge Standard C1.

BRIDGE SUMMARY
 INDIANA STATE HIGHWAY COMMISSION

DATE MARCH 7, 1973

Robert W. Betts
 ASSISTANT CHIEF OF BRIDGE DIVISION

SHEET 15 OF 40

SUMMARIZED IHW 2-15-72, W.D. BNL 2-15-73
 TRACED S.C. 2-15-72, C.K.D. BNL 2-16-73

Rev 9-26-74 Class 'C' Conc. Reinf. Steel, Modified R.C.C.
 Surface & Finishing and Curbing Added, Approach Structures
 Rev 9-7-73 Approach Tables

PROJECT: 57-135 F
 CONTRACT NO: B-9927
 BRIDGE FILE: 67-50-176 B

ESTIMATE OF QUANTITIES

STRUCTURE PAY ITEMS				
CODE NO.	DESCRIPTION	UNIT	STRUCTURE	TOTAL QUANTITY
51001	CONCRETE, CLASS C IN SUPERSTRUCTURE	CYS.		239.4
51005	CONCRETE, CLASS A IN SUPERSTRUCTURE	CYS.		124.3
51010	CONCRETE, CLASS B ARMS	CYS.		178.6
51015	CONCRETE, CLASS B IN FOOTINGS	CYS.		48.6
51045	CONCRETE STRUCTURAL MEMBERS	LSUM		
51030	REINFORCING STEEL	LBS.		91024
51035	STRUCTURAL STEEL	LBS.		
51038	STRUCTURAL STEEL	LSUM		1
51090	BRONZE PLATES	LBS.		
51050	ANCHOR RODS (HR-AR 1)	EACH		
51055	ANCHOR RODS (HR-AR 2)	EACH		
51060	ANCHOR RODS (HR-AR 3)	EACH		
51065	ANCHOR RODS (HR-AR 4)	EACH		
51070	ANCHOR PLATES (HR-AP 1)	EACH		
51075	ANCHOR PLATES (HR-AP 2)	EACH		
51080	ANCHOR PLATES (HR-AP 3)	EACH		
51085	ANCHOR PLATES (HR-AP 4)	EACH		
51112	ANCHOR BOLTS	EACH		
51068	RIB IRON ASSEMBLY MK-1A	EACH		
51095	CAST IRON DRAIN PIPE, 4 INCH	LBS.		
51100	CAST IRON DRAIN PIPE, 6 INCH	LBS.		
51105	CAST IRON DRAIN PIPE, 8 INCH	LBS.		
51110	CAST IRON GRATES, BASINS AND FITTINGS	LBS.		
51132	RAILING REST	LFT.		
51114	RAILING (TYPE 5 OR C)	LFT.		
51120	RAILING (TYPE 5A OR C1)	LFT.		443
51125	RAILING (TYPE 6 OR D)	LFT.		
51130	RAILING (TYPE 7 OR E)	LFT.		
51070	CONCRETE RAILING	CYS.		
51025	CONCRETE RAILING	LFT.		
51215	CLASS X EXCAVATION	CYS.		
51220	WET EXCAVATION	CYS.		
51223	WATERWAY EXCAVATION	CYS.		1,560
51224	WATERWAY EXCAVATION	LSUM		
51225	DRY EXCAVATION	CYS.		
51230	FOUNDATION EXCAVATION (UNCLASSIFIED)	CYS.		
51231	FOUNDATION EXCAVATION (UNCLASSIFIED)	LSUM		
51813	PNEUMATICALLY PLACED MORTAR	SFT.		
51806	REPOINTING MASONRY IN STR'S	SFT.		
51816	WEALED STEEL WIRE FABRIC	SFT.		
51829	PAINTING OLD STEEL BRIDGE	LSUM		
	EXPANSION JOINT TYPE K	LFT.		111
	BRIDGE FOUNDATION EXCAVATION	LSUM		1

SUMMARIZED JDA c'k'd BXL 2-15-73
 TRACED SC 2-15-73 c'k'd BXL 2-16-73

STRUCTURE PAY ITEMS				
CODE NO.	DESCRIPTION	UNIT	STRUCTURE	TOTAL QUANTITY
51135	TIMBER PILES FURNISHED, UNDRATED	LFT.		380
51140	TIMBER PILES DRIVEN, UNDRATED	LFT.		344
51145	TIMBER PILES FURNISHED, TREATED	LFT.		
51150	TIMBER PILES DRIVEN, TREATED	LFT.		
51155	PILE SHELLS FURNISHED AND DRIVEN (12 INCH)	LFT.		
51160	PILE SHELLS FURNISHED AND DRIVEN (14 INCH)	LFT.		350
51185	STEEL H PILES FURNISHED AND DRIVEN (8 BP 36)	LFT.		
51190	STEEL H PILES FURNISHED AND DRIVEN (10 BP 42)	LFT.		
51195	STEEL H PILES FURNISHED AND DRIVEN (12 BP 53)	LFT.		
51210	PILE ENCASEMENT (CONCRETE)	LFT.		
51328	REMOVAL OF PRESENT STRUCTURE (PORTIONS)	LSUM		1
51330	REMOVAL OF PRESENT STRUCTURE	LSUM		1
51335	TEMPORARY BRIDGE AND APPROACHES	LSUM		1
51365	CONCRETE SLOPEWALL 5 INCH	SYS.		
51365	SLOPEWALL	SYS.		
51370	RIPRAP	SYS.		
51375	REVEMENT RIPRAP	TON		
51371	HANDLAD RIPRAP 12 INCH	SYS.		
51372	DUMPED RIPRAP	TON		1,430
51395	STEEL DRAIN PIPE (6 INCH)	LSUM		
51400	STEEL DRAIN PIPE (8 INCH)	LSUM		
51092	STEEL PIPE CONDUIT (2 INCH)	LFT.		
51826	SURFACE SEAL	SFT.		
51827	LOCAL TAN INTERLAYER PROTECTIVE COAT	LSUM		
	MODIFIED PORTLAND CEMENT CONCRETE SURFACE FINISHING AND CURING	CYS.		47.7
		SYS.		1144

APPROACH PAY ITEMS				
CODE NO.	DESCRIPTION	UNIT	STRUCTURE	TOTAL QUANTITY
02020	UNCLASSIFIED EXCAVATION	CYS.		
52240	COMMON EXCAVATION	CYS.		85
52245	BORROW	CYS.		50
52250	B BORROW	CYS.		110
52302	REMOVAL OF PAVEMENT	SYS.		216
02235	BREAKING PAVEMENT	SYS.		
52490	TERMINAL JOINT	LFT.		
52495	CONTRACTION JOINT, TYPE D-1	LFT.		
52480	CONCRETE PAVEMENT REINFORCED (7 INCH)	SYS.		
52285	CONCRETE PAVEMENT REINFORCED (8 INCH)	SYS.		
52290	CONCRETE PAVEMENT REINFORCED (9 INCH)	SYS.		
52300	CONCRETE PAVEMENT REINFORCED (10 INCH)	SYS.		146
06070	CONCRETE SIDEWALK	SYS.		
52405	TYPE P COMPACTED AGGREGATE FOR BASE (SIZE NO. 53)	TON		136.5
52600	COVER AGGREGATE	TON		3.2
52605	AGGREGATE FOR SHOULDER DRAINS	TON		
52610	AGGREGATE FOR UNDER DRAINS	CYS.		
52308	TYPE D COMPACTED AGGREGATE FOR BASE (SIZE NO. 53)	TON		
52310	SUBBASE	CYS.		5.2
52315	BITUMINOUS STABILIZED SUBBASE TYPE I, II, OR III	TON		
52320	BITUMINOUS STABILIZED SUBBASE	TON		
52450	BITUMINOUS BASE	TON		320.7
52455	BITUMINOUS SURFACE	TON		116.3
52455	BITUMINOUS MATERIAL FOR TACK COAT	TON		0.1
52460	BITUMINOUS MATERIAL FOR PRIME COAT	TON		0.8
52465	BITUMINOUS MATERIAL FOR SEAL COAT	TON		0.4
52470	BITUMINOUS MIXTURE FOR APPROACHES	TON		
52475	BITUMINOUS MIXTURE FOR SHOULDER	TON		
52480	BITUMINOUS MATERIAL, APPLIED	TON		
52500	GUARD RAIL, TYPE A	LFT.		
52505	GUARD RAIL, TYPE B	LFT.		
52510	GUARD RAIL, TYPE C	LFT.		
52515	GUARD RAIL, TYPE D	LFT.		
52520	GUARD RAIL, TYPE E	LFT.		
52525	GUARD RAIL, TYPE F	LFT.		
52530	GUARD RAIL, TYPE G	LFT.		340
06035	REST GUARD RAIL	LFT.		
52535	REMOVAL OF GUARD RAIL	LFT.		286
52380	SODDING	SYS.		217
52385	MULCHED SEEDING	SYS.		
52390	SEED MIXTURES - F	LBS.		254
52395	SEED MIXTURES - T-R	LBS.		208
52400	MULCHING MATERIAL	TU		9.2
52405	FERTILIZER	TON		1.8
52410	WATER	M.G.		217.7
52415	AGRICULTURAL LIMESTONE	TON		2.4
06560	SEED MATRIFERS - CV	LBS.		23
52401	MULCHING MATERIAL (WOOD CHIPPING OR FIBER)	TON		
52640	MAINTAINING TRAFFIC	LSUM		
52370	CLEARING RIGHT-OF-WAY	LSUM		

1. INCLUDES 4.6 TONS FOR TEMPORARY SEEDING
2. INCLUDES 2.9 TONS FOR TEMPORARY SEEDING
3. INCLUDES 1.2 TONS FOR TEMPORARY SEEDING

APPROACH PAY ITEMS				
CODE NO.	DESCRIPTION	UNIT	STRUCTURE	TOTAL QUANTITY
07025	PIPE, GR. A (16 Ga. FRCS) 12"	LFT.		
07075	PIPE, GR. A (16 Ga. FRCS) 15"	LFT.		
07125	PIPE, GR. A (16 Ga. FRCS) 18"	LFT.		
07175	PIPE, GR. A (16 Ga. FRCS) 24"	LFT.		
07225	PIPE, GR. A (16 Ga. FRCS) 30"	LFT.		
07275	PIPE, GR. A (16 Ga. FRCS) 36"	LFT.		
07325	PIPE, GR. A (16 Ga. FRCS) 42"	LFT.		
10000	PIPE, GR. D (16 Ga. CS) 12"	LFT.		
10025	PIPE, GR. D (16 Ga. CS) 15"	LFT.		22
10050	PIPE, GR. D (16 Ga. CS) 18"	LFT.		
10075	PIPE, GR. D (16 Ga. CS) 24"	LFT.		
10100	PIPE, GR. D (16 Ga. CS) 30"	LFT.		
10125	PIPE, GR. D (16 Ga. CS) 36"	LFT.		
10150	PIPE, GR. D (16 Ga. CS) 42"	LFT.		
34000	PIPE, HX-0025 FRC FIBR. CS 6"	LFT.		144
52375	CONCRETE CLASS A IN STRUCTURE	CYS.		
46000	PIPE END SECTION 12"	EACH		
46005	PIPE END SECTION 15"	EACH		2
46010	PIPE END SECTION 18"	EACH		
46015	PIPE END SECTION 21"	EACH		
46020	PIPE END SECTION 24"	EACH		
46025	PIPE END SECTION 27"	EACH		
46030	PIPE END SECTION 30"	EACH		
46035	PIPE END SECTION 33"	EACH		
46040	PIPE END SECTION 36"	EACH		
46045	INLET, TYPE A-1	EACH		
46050	INLET, TYPE D-6	EACH		
46055	INLET, TYPE E-7	EACH		
46060	INLET, TYPE P-12A	EACH		
06335	PAVED SIDE DITCH TYPE A	LFT.		435
06340	PAVED SIDE DITCH TYPE B	LFT.		
06345	PAVED SIDE DITCH TYPE C	LFT.		
06350	PAVED SIDE DITCH TYPE D	LFT.		
06355	PAVED SIDE DITCH TYPE E	LFT.		
06360	PAVED SIDE DITCH TYPE F	LFT.		
06365	PAVED SIDE DITCH TYPE G	LFT.		
	REMOVAL OF PAVED SIDE DITCH	LFT.		80

**INCLUDES _____ LFT. FOR YELLOW BARRIER LINE

APPROACH PAY ITEMS				
CODE NO.	DESCRIPTION	UNIT	STRUCTURE	TOTAL QUANTITY
06040	47" FENCE, F. FIELD	LFT.		
06045	48" FENCE, CHAIN LINK	LFT.		
52340	CONSTRUCTION SIGNS (TYPE A)	EACH		18
52345	CONSTRUCTION SIGNS (TYPE B)	EACH		12
52350	STANDARD BARRICADES (TYPE 171)	EACH		2
06650	STOP SIGN, TYPE R-1A	EACH		
06652	DO NOT PASS SIGN, TYPE R-11-A	EACH		
06655	YIELD SIGN, TYPE R-301	EACH		
06657	PASS WITH CARE SIGN, TYPE R-12A	EACH		
06660	CURVE SIGN, TYPE M-2AR	EACH		
06665	CURVE SIGN, TYPE M-2AL	EACH		
06670	REVERSE CURVE SIGN, TYPE M-4AR	EACH		
06675	REVERSE CURVE SIGN, TYPE M-4AL	EACH		
06680	LARGE ARROW SIGN, TYPE M-11A	EACH		
06685	STOP AHEAD SIGN, TYPE M-13A	EACH		
06725	DELINEATOR WITH POST, TYPE D-1 3 INCH	EACH		
06740	DELINEATOR WITH POST, TYPE D-2 3 INCH	EACH		
06755	DELINEATOR WITH POST, TYPE D-3 3 INCH	EACH		
06770	DELINEATOR POST	EACH		
06720	TEMPORARY PAVEMENT MARKING TAPE	LFT.		1,100
06715	TEMPORARY PAVEMENT MARKING PAINT	LFT.		2650
52360	RIGHT-OF-WAY MARKERS	EACH		1
52365	PAINTED LINE **	LFT.		
06500	MONUMENT, TYPE A	EACH		
06505	MONUMENT, TYPE B	EACH		
06510	MONUMENT, TYPE C	EACH		
06515	MONUMENT, TYPE D	EACH		

REVISIONS

DATE	ITEM
9-7-73	52305, 52320, 52415
9-26-76	51001, 51030, 52390, 52395, 06560, 10025, 34000, Type SRI 5.5e Jt., Mod. P.C.C. Surface, Finishing & Curving Added

BRIDGE ESTIMATE OF QUANTITIES INDIANA STATE HIGHWAY COMMISSION

DATE MARCH 1, 1973.

Robert W. Betts
DIRECTOR, INDIANA STATE HIGHWAY COMMISSION

SHEET 16 OF 40

PROJECT: ST-135 F
 CONTRACT NO: B-9927
 BRIDGE FILE: 67-60-176B