

BRIDGE CONTRACT No. B-5127

INDEX						
PROJECT	STRUCTURE	TYPE	SPAN	OVER	STATION	CONTRACT NO.
S-506(6)	101-02-5782	CONTINUOUS PRESTRESSED CONC. I-BEAM	04'-8" 30'85"-6' 04"-9" St. 20' R.	Moussa R.	Stk. 1260 + 87	B-5127
SHEET NO.	SHEET DESIGNATION	SUBJECT				B.P.R. APPROVAL
1	INDEX & TITLE SHEET					
2	ONE SHEET	TYPICAL CROSS SECTIONS & INTERSECTION DETAILS				
3-4	TWO SHEETS	ROAD PLAN & PROFILE				
5	ONE SHEET	TEST BORING DATA				
6	ONE SHEET	CHANNEL CLEARING				
7	ONE SHEET	R.C. BRIDGE APPROACH DETAILS				
8	1 (STR. 101-02-5782)	LAYOUT				
9	C2	GENERAL PLAN				
10	C5	END BENT DETAILS				
11	C4	PIER NO. 2 & NO. 3 DETAILS				
12	C3	PIER NO. 3 & NO. 4 DETAILS				
13	C6	SUPERSTRUCTURE DETAILS				
14	C7	SUPERSTRUCTURE DETAILS				
15	C8	SUPERSTRUCTURE DETAILS				
16	C9	SUPERSTRUCTURE DETAILS				
17	C10	SUPERSTRUCTURE DETAILS				
18	ONE SHEET	SUMMARY				
19-26	TEN SHEETS	CROSS SECTIONS				

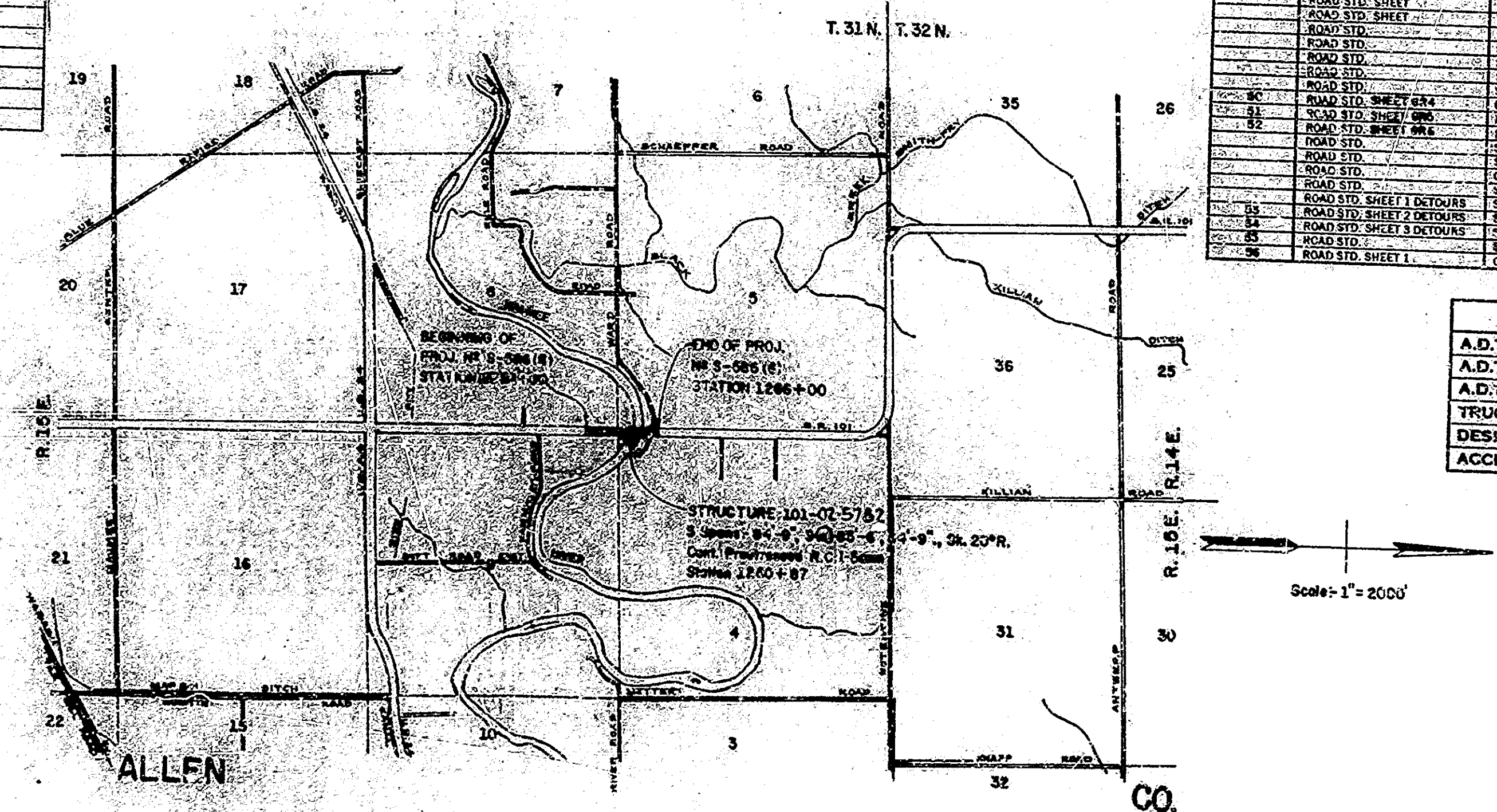
STATE OF INDIANA
INDIANA STATE HIGHWAY COMMISSION

BRIDGE PLANS FOR SPANS OVER 20 FEET ON STATE ROAD NO. 101 SECTION F.A.S. PROJECT NO. S-586 (6) PE (6) R/W (6) CONST

S.R. 124-U.S. 30 ROAD
BEGINNING AT A POINT ON S.R. 101 APPROX. 647' SOUTH OF THE CORNER COMMON TO SECTIONS 4, 5, 6 & 9 AND EXTENDING NORTH A DISTANCE OF APPROX. 1800' TO A POINT ON S.R. 101 APPROX. 855' NORTH OF THE CORNER COMMON TO SECTIONS 4, 5, 6 & 9. ALL IN T. 31 N. - R. 15 E., ALLEN COUNTY.
ROADWAY LENGTH = 0.203 MI.
BRIDGE LENGTH = 0.081 MI.
TOTAL LENGTH = 0.284 MI.
MAX. GRADE = 1.42%

BRIDGES OVER 20' SPAN					
PROJECT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	S-566(6)	1969	1	65

INDEX CONTINUED STANDARD DRAWINGS					
SHEET NO.	SHEET DESIGNATION	SUBJECT	B.P.R. APPROVAL	REVISION	DATE
27	BRIDGE STD. C1	STANDARD MISCELLANEOUS DETAILS			
28	BRIDGE STD. C2	STANDARD MISCELLANEOUS DETAILS			
29	BRIDGE STD. C3	CASTING DETAILS ROADWAY DRAINS	1-11-68	R-18-18-67	
30	BRIDGE STD. C4	ROADWAY DRAIN OUTLET DETAILS			
31	BRIDGE STD. J	EXPANSION JOINT			
32	BRIDGE STD. M	MISCELLANEOUS APPROACH DETAILS			
33	BRIDGE STD. M5	R.C. BRIDGE APPROACH TURNOUT DETAILS 12'-6" SHOULDERS			
34	BRIDGE STD. M5	GENERAL AND DRAINAGE DETAILS			
35	BRIDGE STD. P25	PRESTRESSED CONCRETE TYPE 24-I BEAMS	4-16-68	A-26-1058	
36	BRIDGE STD. P25	PRESTRESSED CONCRETE TYPE 24-I BEAMS			
37	BRIDGE STD. P25	PRESTRESSED CONCRETE TYPE 24-I BEAMS			
38	BRIDGE STD. P25	PRESTRESSED CONCRETE TYPE 24-I BEAMS			
39	BRIDGE STD. P25	PRESTRESSED CONCRETE TYPE 24-I BEAMS			
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44	BRIDGE STD. P25	PRESTRESSED CONCRETE TYPE 24-I BEAMS			
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100	BRIDGE STD. P25	PRESTRESSED CONCRETE TYPE 24-I BEAMS			



TRAFFIC DATA		
A.D.T. (1968)		400 V.P.D.
A.D.T. (1968 PROJECTED)		1200 V.P.D.
A.D.T. (19 PROJECTED)		V.P.D.
TRUCKS		V.P.D.
DESIGN SPEED		36 %
ACCESS CONTROL		NONE

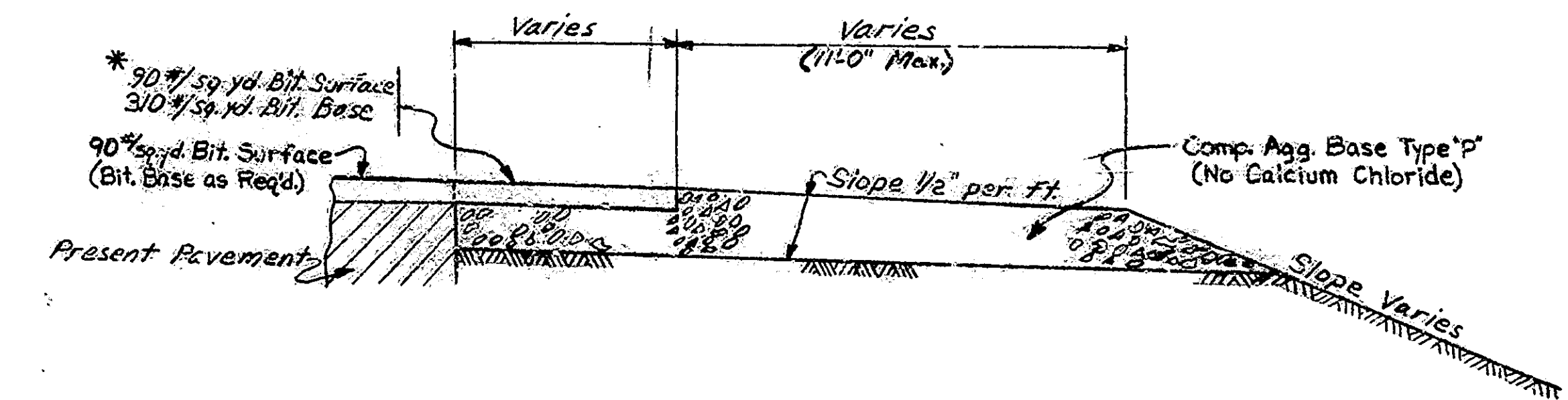
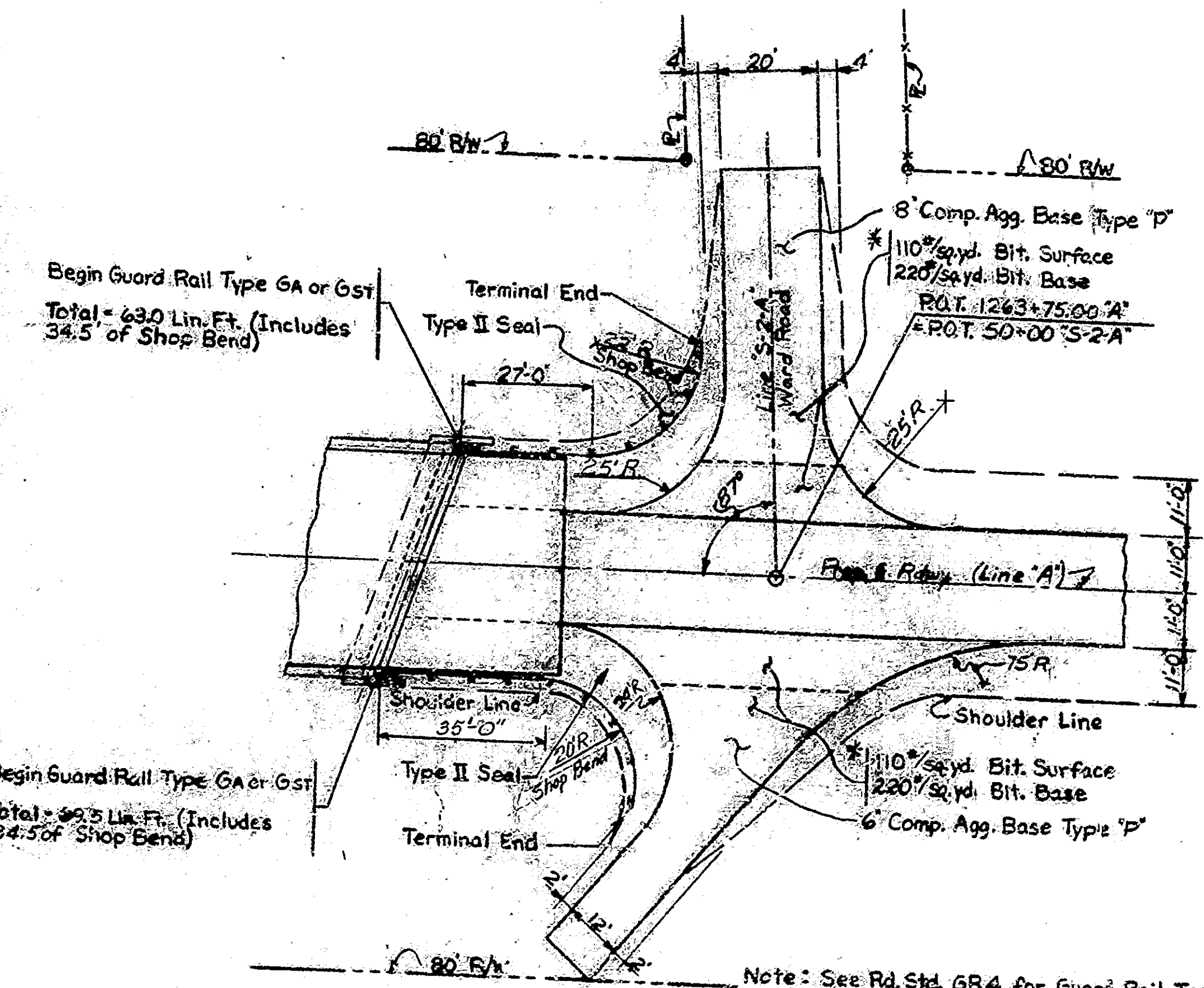
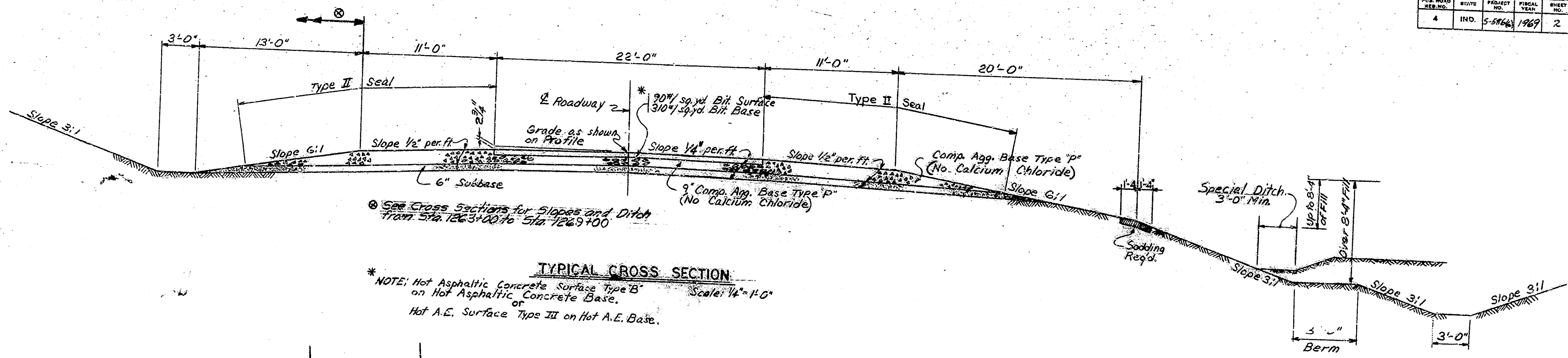
INDIANA STATE HIGHWAY COMMISSION
STANDARD SPECIFICATIONS DATED 1965
TO BE USED WITH THESE PLANS.

REVISIONS	
DATE	SHEET NO.
4-23-67	3-4-67
5-28-67	8-10-718
8-2-67	27-12

RECOMMENDED FOR APPROVAL 4-23-69
RECOMMENDED FOR APPROVAL 6-5-69

APPROVED: 6-5-69
DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
APPROVED: [Signature]
DIVISION ENGINEER [Signature] DATE []
BRIDGE FILE 101-02-5782

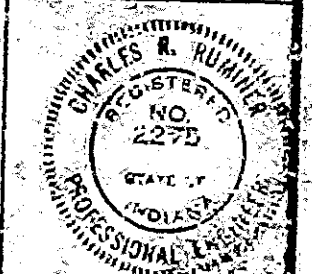
BRIDGES OVER 20' SPAN					
PUB. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	5-5166	1969	2	56



TYPICAL CROSS SECTION AND INTERSECTION DETAILS
INDIANA STATE HIGHWAY COMMISSION

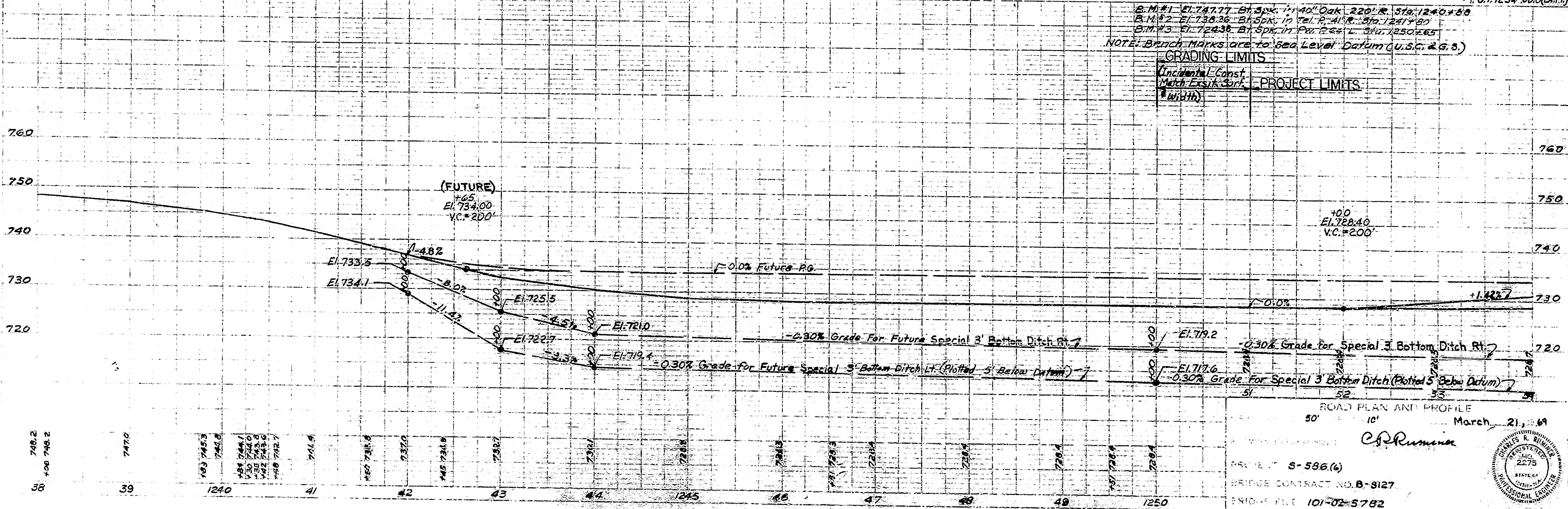
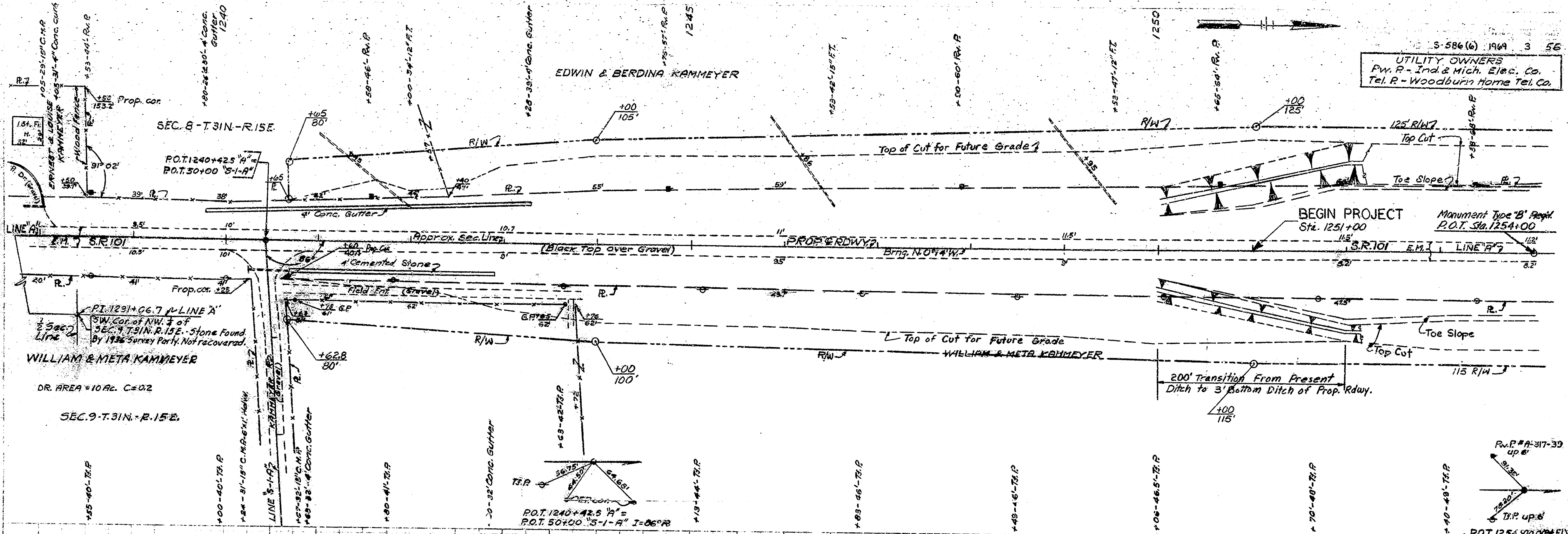
SCALE: AS NOTED
RECOMMENDED FOR APPROVAL: *C.R. Reimer* MARCH 21, 1969

DRAWING OF PROJECT: S-5166(4) BRIDGE CONTRACT NO. B-8427 BRIDGE FILE: 101-02-5702



DESIGNED: CKD
DRAWN: BIC
TRACED: LK

S-586(6) 1969 3 56
 UTILITY OWNERS
 P.W. R. - Ind. & Mich. Elec. Co.
 Tel. R. - Woodburn Home Tel. Co.



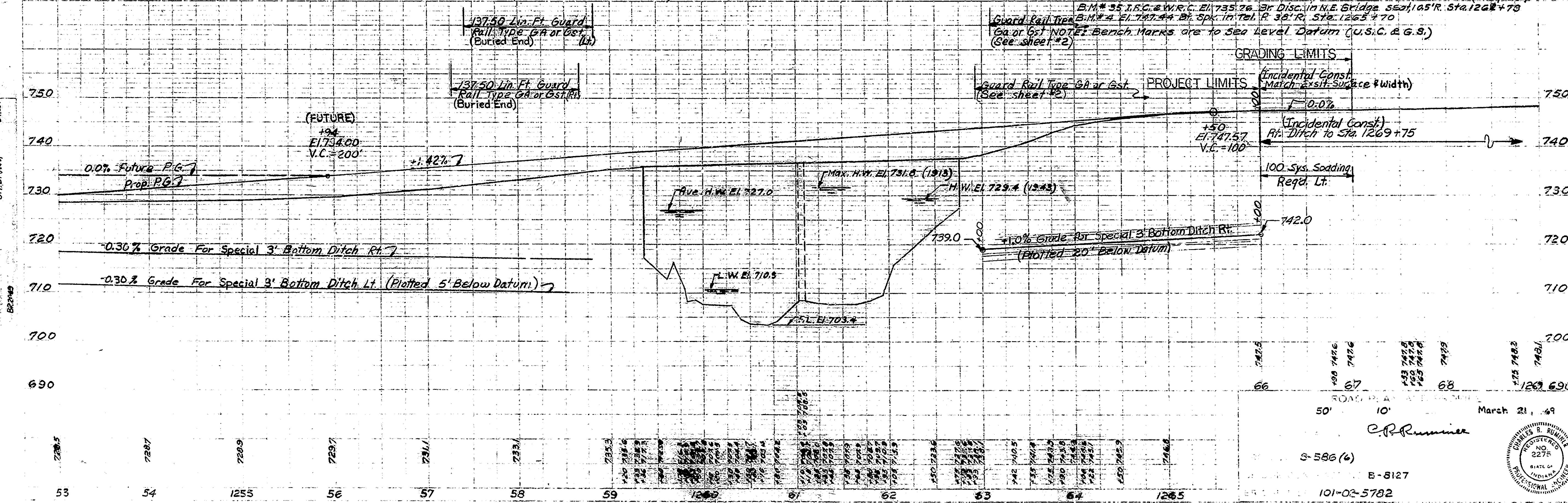
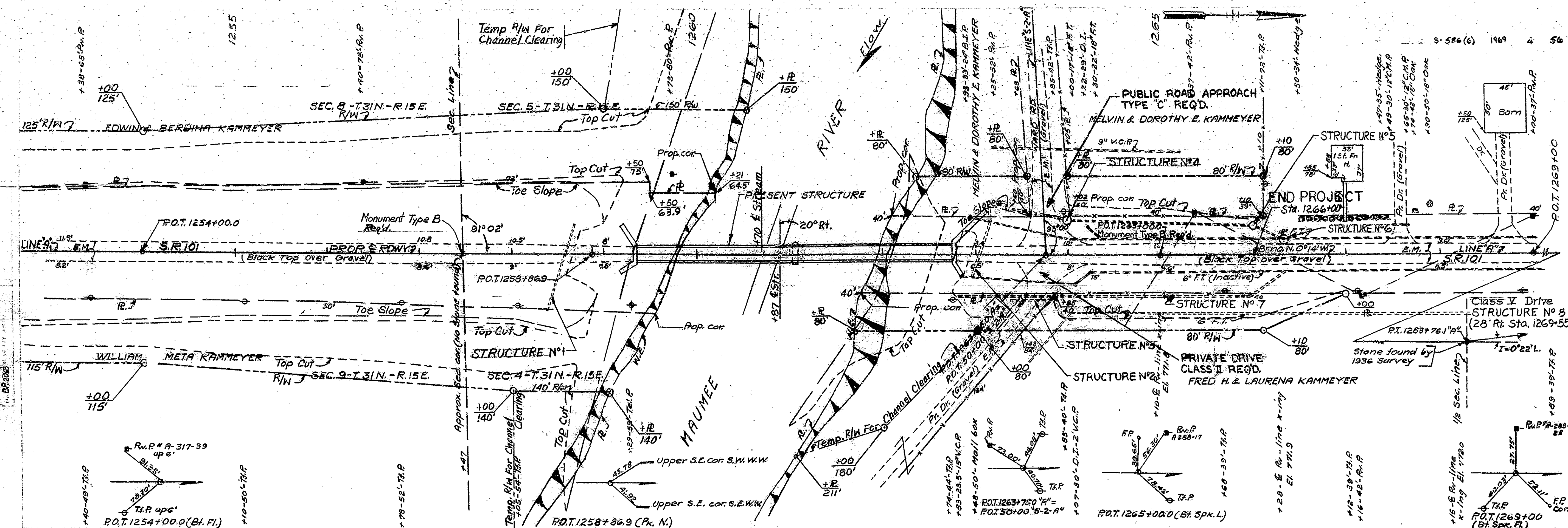
B.M. #1 - El. 747.77 - Bk. Spk. 1" x 40" Oak 220' x 31a, 1240+50
 B.M. #2 - El. 738.36 - Bk. Spk. 1" x 40" Oak 220' x 31a, 1241+20
 B.M. #3 - El. 724.38 - Bk. Spk. 1" x 40" Oak 220' x 31a, 1250+65
 NOTE: Bench Marks are to Sea Level Datum (U.S.C. & G.S.)

GRADING LIMITS
 Incidental Const. Match Existing
 PROJECT LIMITS
 Width

ROAD PLAN AND PROFILE
 50' 10' March 21, 69

PROJECT S-586(6)
 BRIDGE CONTRACT NO. B-3127
 BRIDGE FILE 101-02-5782



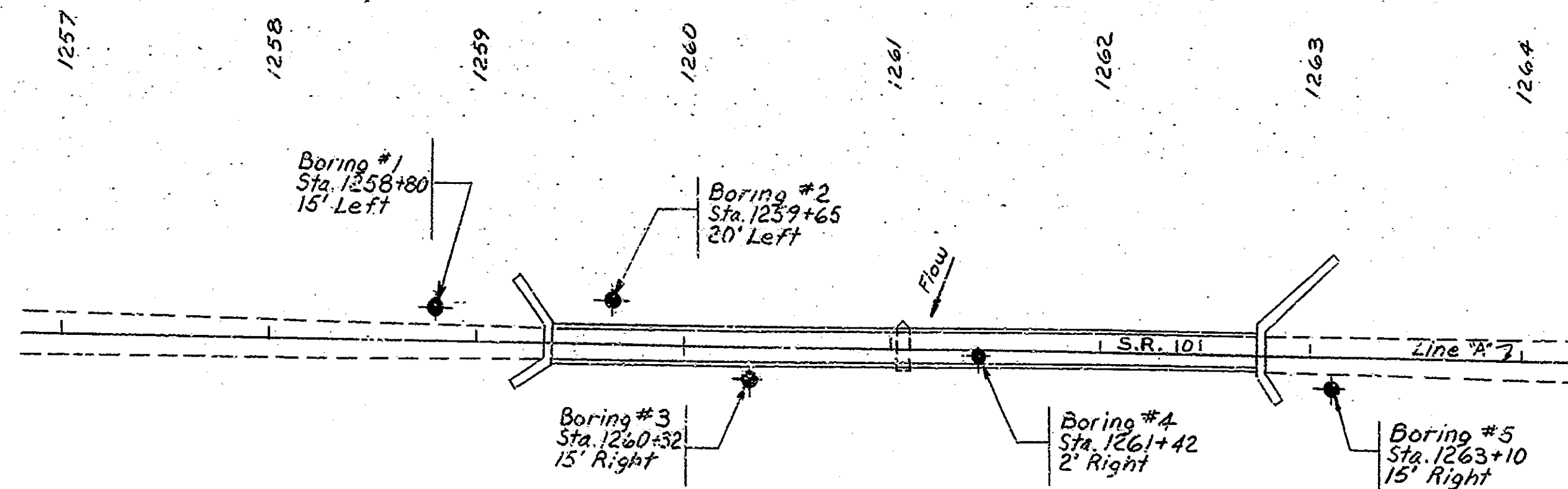


PLAN
 HISTORY
 DATE
 BY
 CHECKED
 APPROVED
 TITLE

E.C. WILSON
 REGISTERED
 SURVEYOR

11053
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BRIDGES OVER 20' SPAN					
PUB. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	S-586(6)	1969	5	6



BORING #1
Sta. 1258+80
15' Left
Surface El. 734.5

N*	Depth	Description
	0.0	Surface El. 734.5
6/7		Brown moist medium dense to very loose sandy loam to medium sand (Fill)
2/2		
2/2		
3/3		
		- loose 8.5-10.0' and 18.5-20.0'
1/2		
2/4	22.0	
7/10	28.0	Brown wet medium dense medium sand and fine gravel
23/40	33.0	Gray moist hard loam with some sand and gravel (hardpan material)
57/16	36.0	Gray wet - medium to coarse sand (very dense)
45/65	44.3	Gray moist hard loam with some sand and gravel (hardpan material)
50/3	44.3	Bottom of test boring

BORING #2
Sta. 1259+65
20' Left
Surface El. 714.5

N*	Depth	Description
	0.0	Surface El. 714.5
3/4		Brown moist medium stiff silty loam with sand lenses - soft below 2.5'
2/3	5.0	
5/11	6.5	Brown wet med. dense fine sand
14/11	9.0	Gray moist very stiff sandy loam with trace of gravel (hardpan)
12/29	14.5	Gray wet dense fine to coarse sand with trace of fine to medium gravel with silt seams
39/58	24.0	Gray moist hard silty loam
72/4	27.5	Gray wet very dense fine to coarse sand with little fine to coarse gravel
47/61	29.5	Hardpan Layer
106/3	33.5	Gray wet very dense fine to coarse sand and fine to coarse gravel
130/6	35.5	Gray moist hard sandy loam or sand with little silt with trace of fine to coarse gravel
		Bottom of test boring

BORING #3
Sta. 1260+32
15' Right
Surface El. 707.1

N*	Depth	Description
	0.0	Surface El. 707.1
5/7		Gray moist medium dense sandy loam with trace of gravel
2/20	2.0	
55/46	5.5	Gray wet fine to coarse sand - dense
6/5	6.5	Gray wet very dense fine to coarse sand with some fine to coarse gravel
33/33	8.5	Gray moist hard silty loam
75/15	10.5	Gray moist hard silty clay or silty clay loam
75/15	12.5	Gray wet very dense fine to coarse sand with some fine to medium gravel
75/4	18.0	Gray moist hard sandy loam with little fine to coarse gravel (hardpan)
75/3	22.0	Gray wet very dense fine to coarse sand with some fine to coarse gravel
30/6	27.5	Gray moist hard sandy loam with little fine to medium gravel (hardpan)
101/45	29.4	Gray wet very dense fine to coarse sand and fine to coarse gravel with little silt
		Bottom of test boring

BORING #4
Sta. 1261+42
2' Right
Surface El. 707.8

N*	Depth	Description
	0.0	Surface El. 707.8
12/12		Gray wet loose to medium dense fine to coarse sand and fine to coarse gravel
1.0	1.0	
2.5	2.5	Gray moist medium dense sandy loam - trace of gravel
26/37	4.8	Gray wet very dense fine to coarse sand and fine to coarse gravel
58/5	6.5	Gray moist hard sandy loam with trace of gravel
63/4	10.5	Gray wet very dense fine to medium sand with trace of gravel
39/53	14.5	Gray moist hard silty clay loam or silty clay
38/56	16.0	Gray wet very dense fine to coarse sand with trace of fine gravel with little silt
21.0	21.0	Gray moist hard silty loam
78/8	21.5	Gray wet very dense fine to coarse sand with some fine to coarse gravel with little silt
24.0	24.0	Gray moist hard silty clay loam
113/6	28.5	Gray moist hard silty clay with some coarse gravel
200/4	30.3	Gray wet very dense fine to coarse sand with some fine to coarse gravel
		Bottom of test boring

BORING #5
Sta. 1263+10
15' Right
Surface El. 738.3

N*	Depth	Description
	0.0	Surface El. 738.3
7/7		Brown slightly moist medium dense sandy loam with some fine gravel (Fill)
8/15	3.0	
11/6		
14/22	12.0	Brown with some gray streaks moist very stiff to hard clay loam to clay
13/18	13.0	Gray moist hard clay loam with some medium gravel
16/27	21.0	
21/31	22.0	
22/22	29.6 to 29.9	- wet silt layer
50/3	38.7 - 39.0	Gray wet very dense fine sand - sand and gravel layer
50/4	39.0	Gray moist hard silty loam with trace of sand and gravel (hardpan)
65	48.8	Bottom of test boring

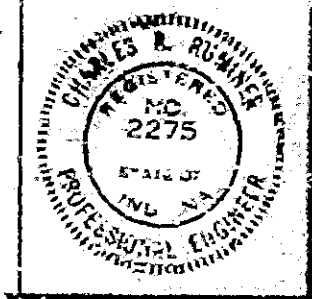
*NOTE: N-indicates the number of blows per foot in standard penetration test - Driving a 2" O.D. Sampler 1' with a 140# hammer falling 30" counts made at 6" intervals

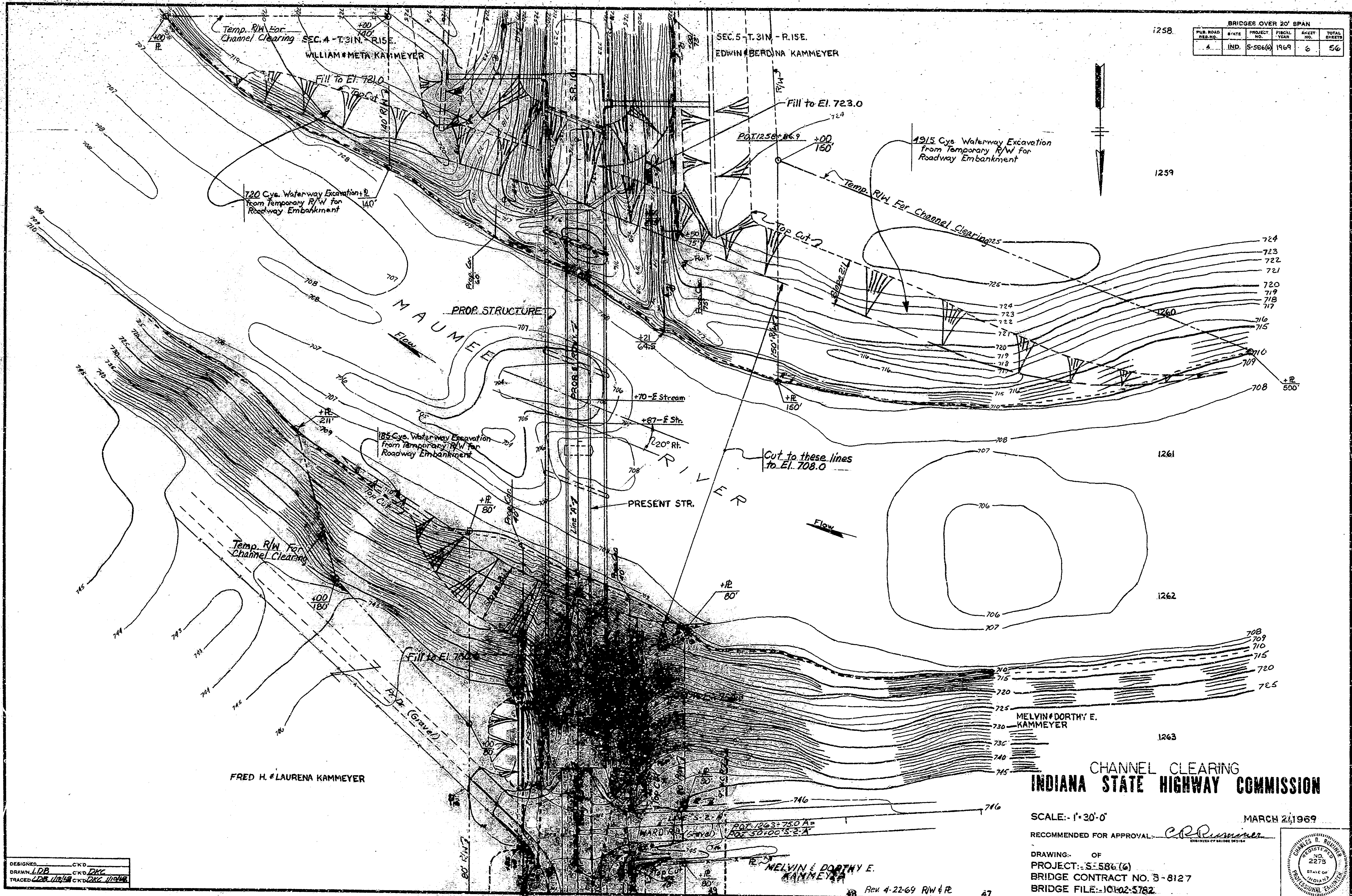
TEST BORING DATA
INDIANA STATE HIGHWAY COMMISSION

SCALE: AS NOTED
RECOMMENDED FOR APPROVAL: *[Signature]*
DATE: MARCH 24, 1969
DRAWING: OF
PROJECT: S-586(6)
BRIDGE CONTRACT NO. 8-8127
BRIDGE FILE: 101-02-5782

DESIGNED: CKD
DRAWN: *[Signature]*
TRACED: CKD

SOIL BORING LOG
Scale: 1" = 50'





BRIDGES OVER 20' SPAN					
PUB. ROAD	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	IND.	S-586(6)	1969	6	56

DESIGNED: CKD
 DRAWN: LDB CKD DKC
 TRACED: LDB LUR LUR CKD DKC UHWH

**CHANNEL CLEARING
 INDIANA STATE HIGHWAY COMMISSION**

SCALE: - 1" = 20'-0" MARCH 24, 1969

RECOMMENDED FOR APPROVAL: *C.R. Rimmer*
DIRECTOR OF BRIDGE DESIGN

DRAWING: OF
 PROJECT: S-586(6)
 BRIDGE CONTRACT NO. S-8127
 BRIDGE FILE: 10102-5762



MELVIN & DOROTHY E. KAMMEIER

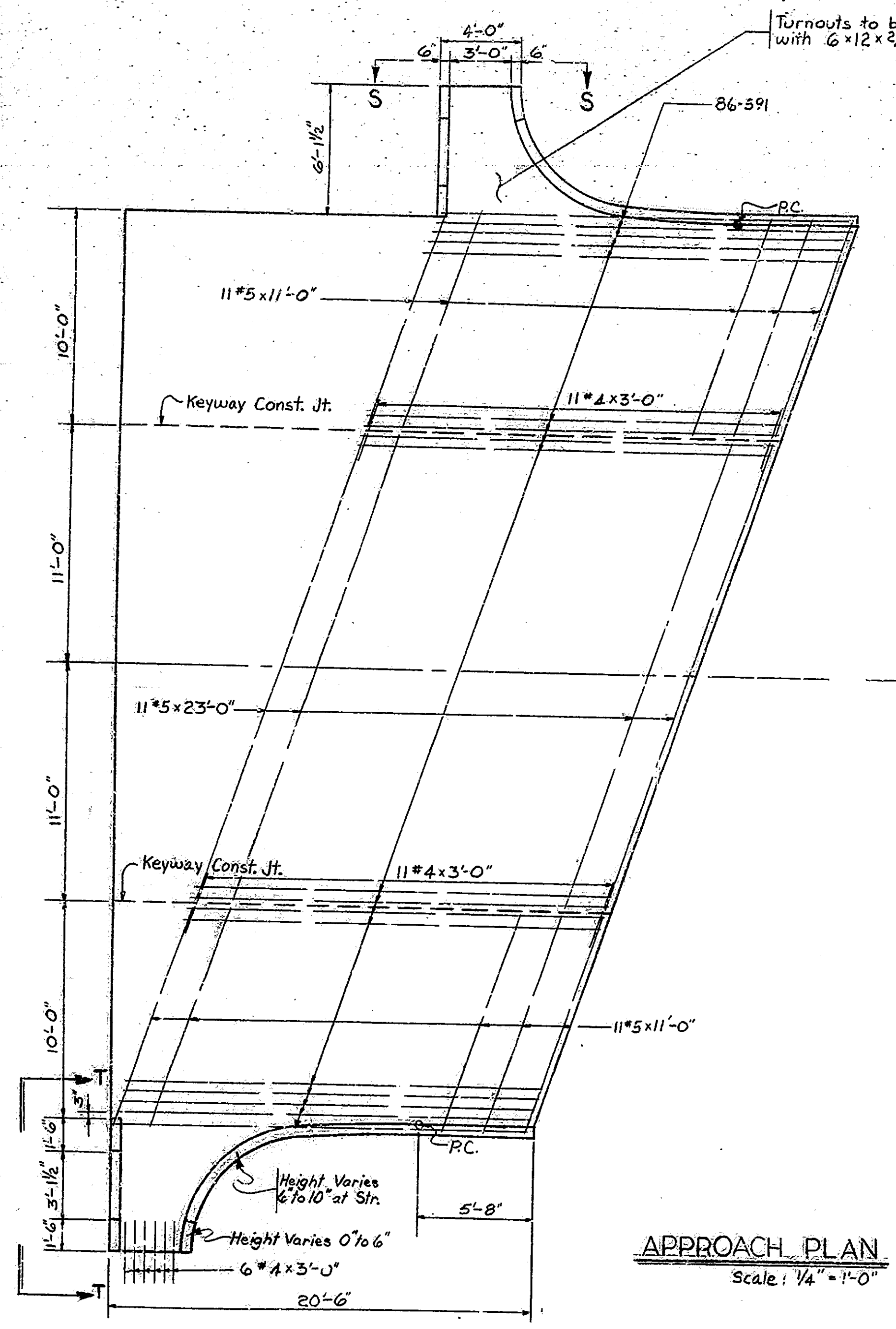
Rev 4-22-69 RW & PE 47

BRIDGES OVER 20' SPAN					
PUB. ROAD NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	S-586(2)	1969	7	56

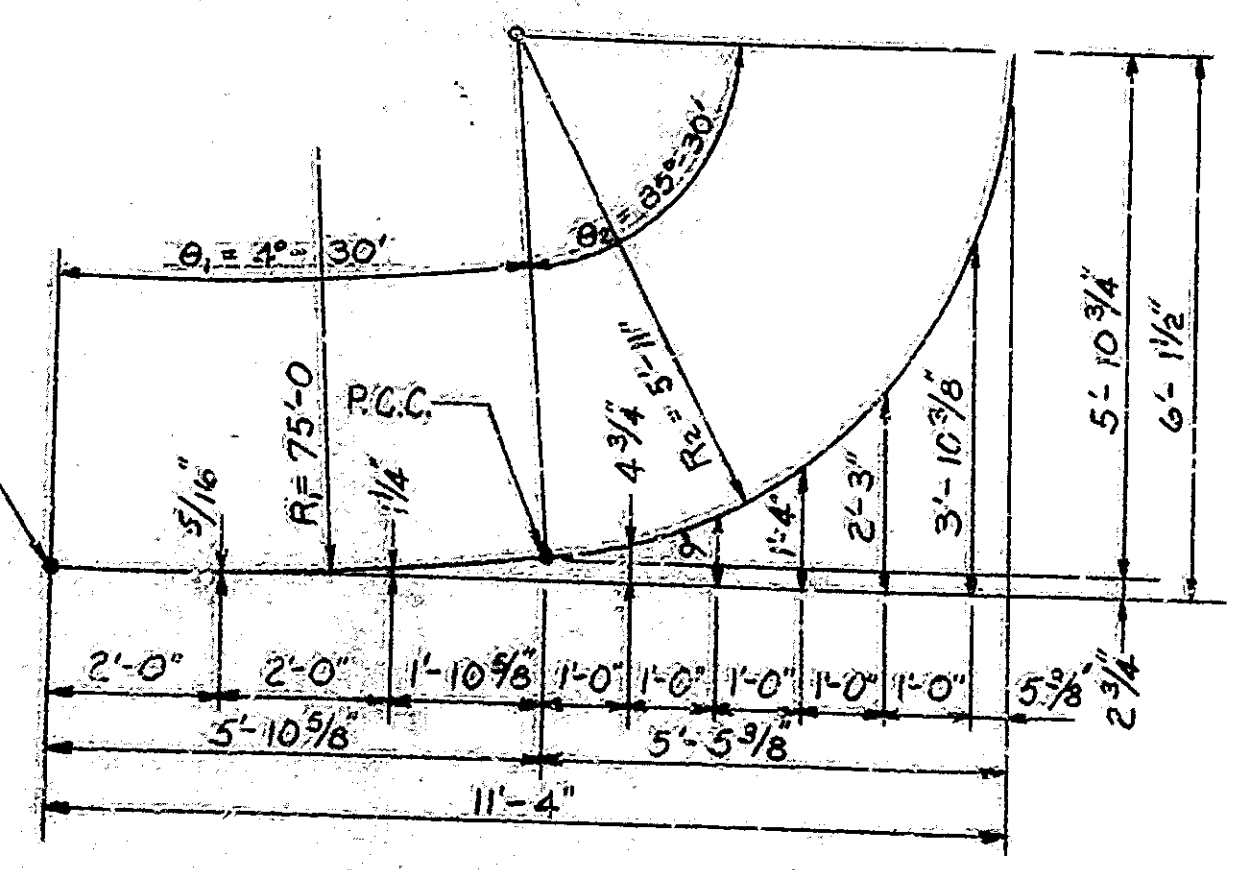
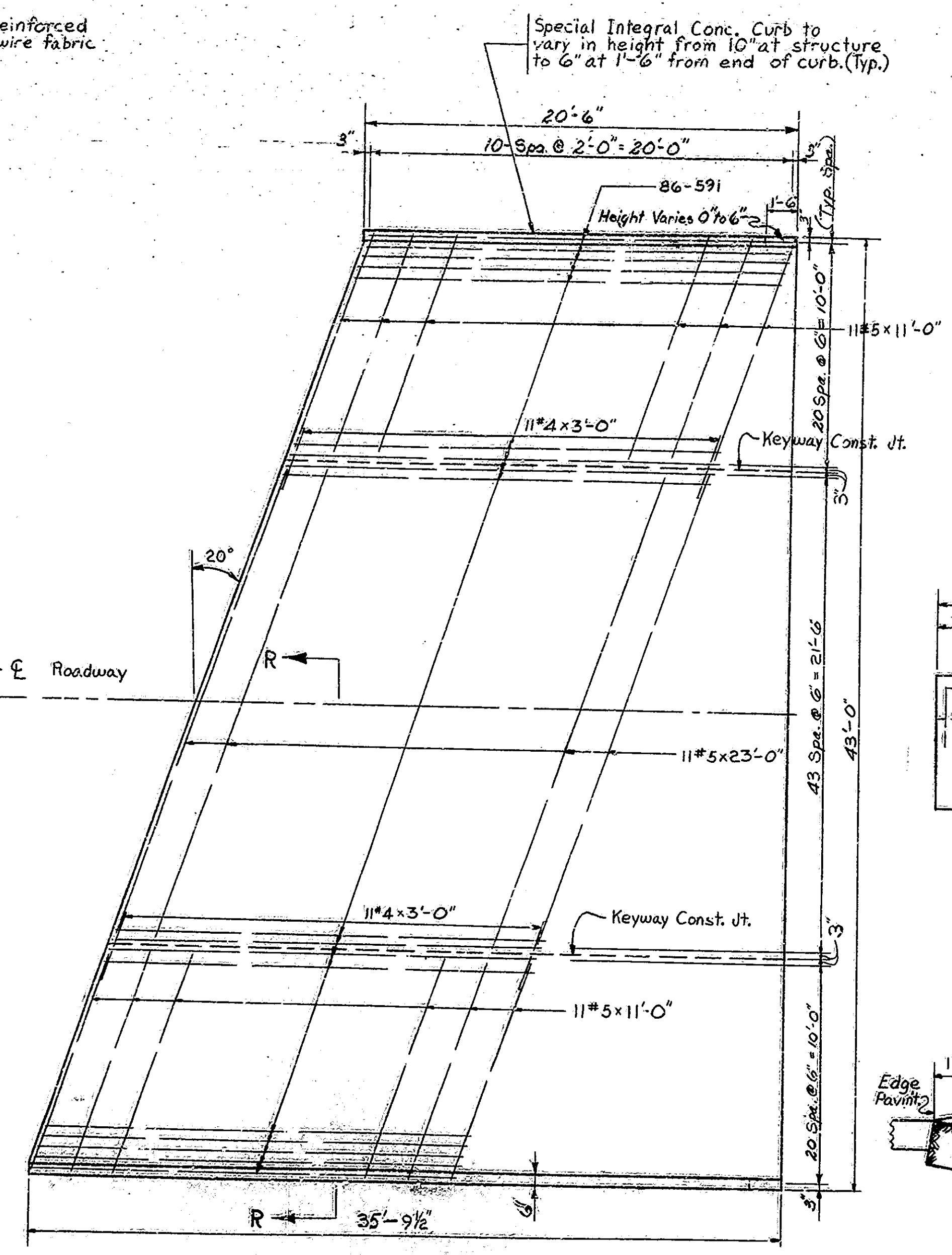
BILL OF MATERIALS
2- R.C. Bridge Approaches

REINFORCING STEEL				
SIZE & NO. OF MARK BARS	LENGTH	WEIGHT (LBS)		
#5 172	20'-6"			
#6 22	23'-0"			
#5 44	17'-0"			
Total #5		4,710*		
#4 56	3'-0"			
Total #4		112*		
Total Steel		4,822*		

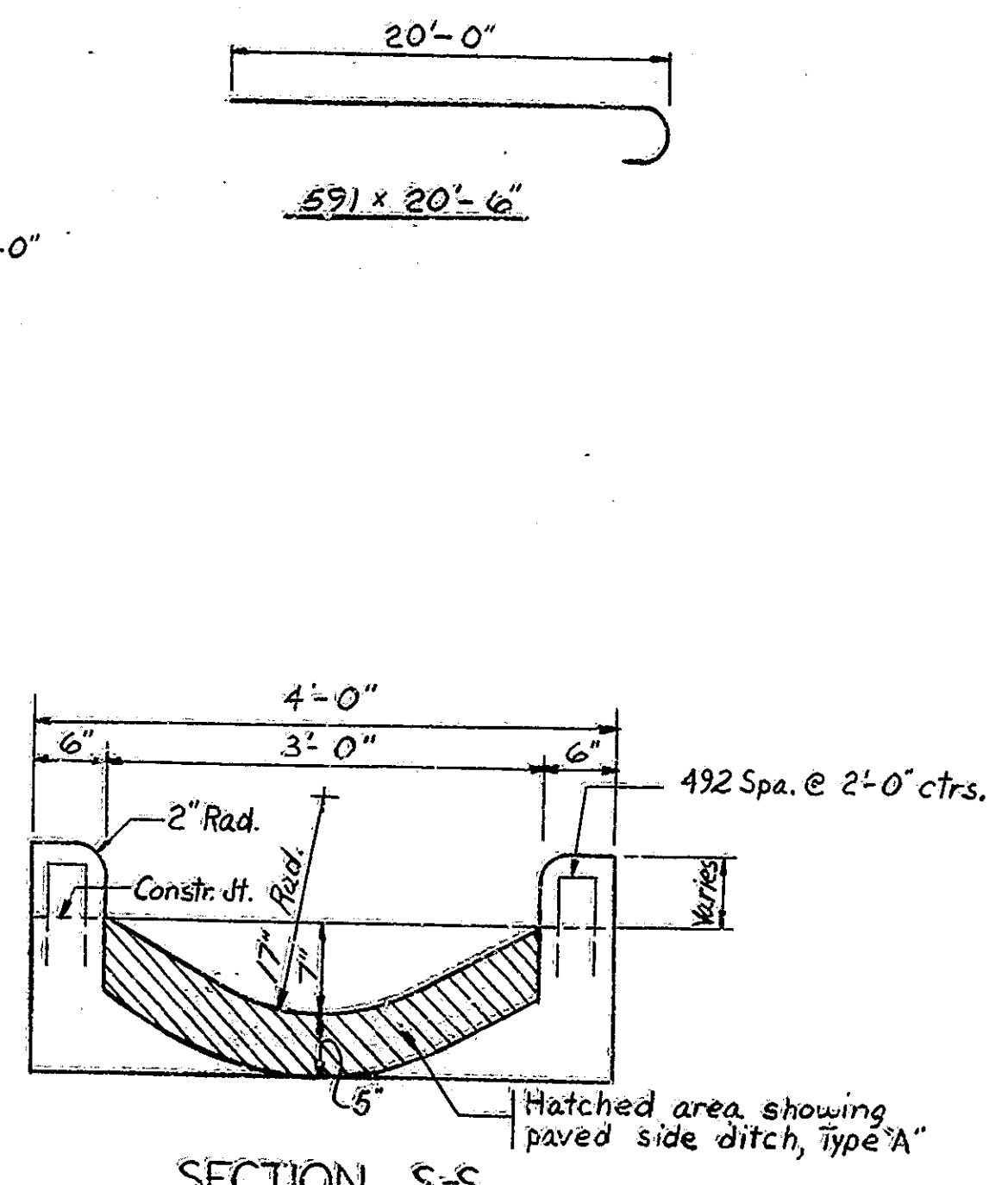
~ MISCELLANEOUS ~
9" R.C. Pavement 2.69 sq.yd
Special Integral Curb-109 lin.ft.



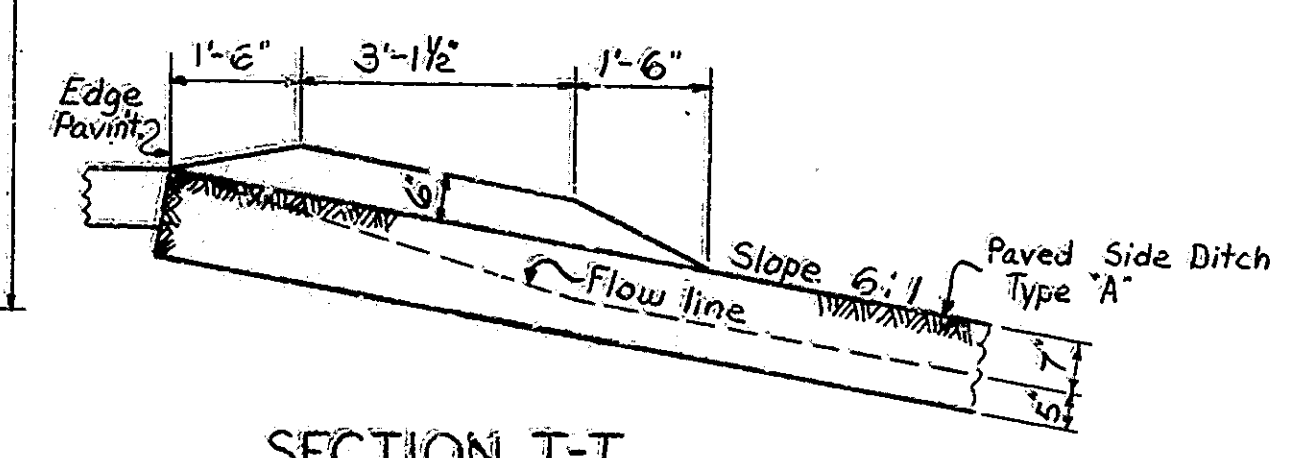
APPROACH PLAN
Scale: 1/4" = 1'-0"



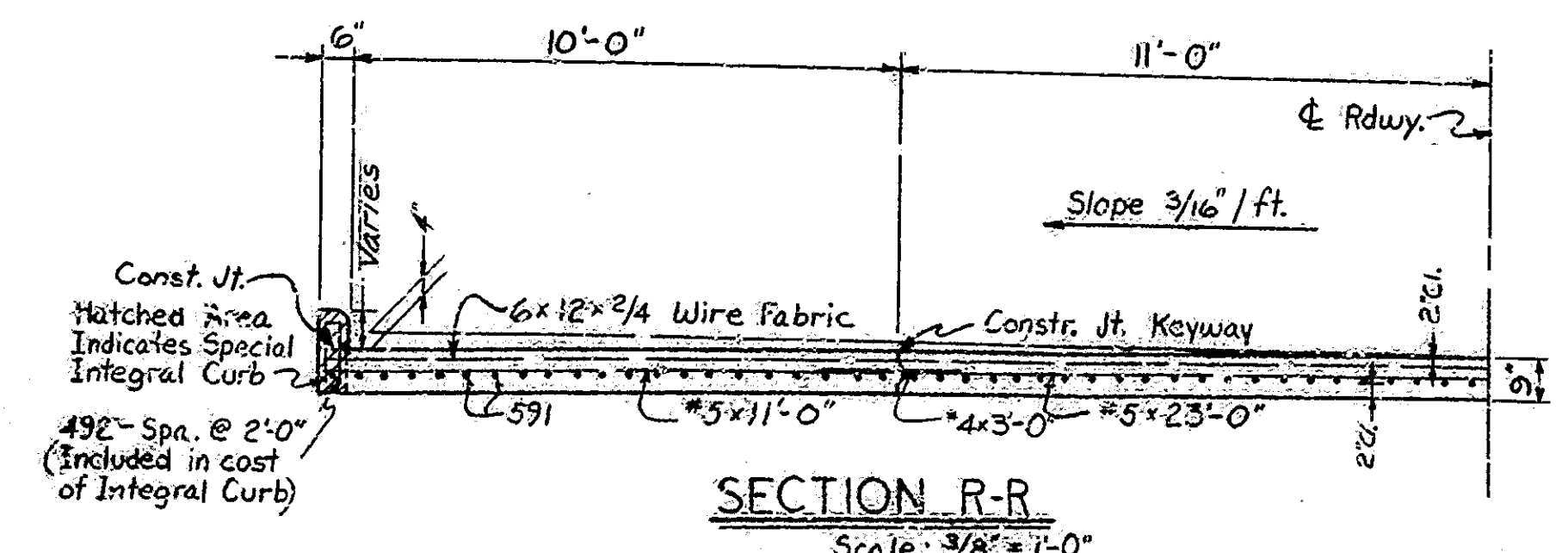
LINE OFFSET DIAGRAM FOR TURNOUTS
Scale: 1/2" = 1'-0"



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



SECTION T-T
Scale: 1/2" = 1'-0"



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

NOTES: See Br. Std. C1 for Reinforcing Bar Notes
See Rd. Std. MA for Additional Details
See Rd. Std. A for Keyway Const. Jt. Details

R.C. BRIDGE APPROACH DETAILS
INDIANA STATE HIGHWAY COMMISSION

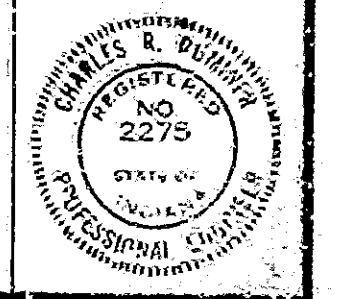
SCALE: AS NOTED

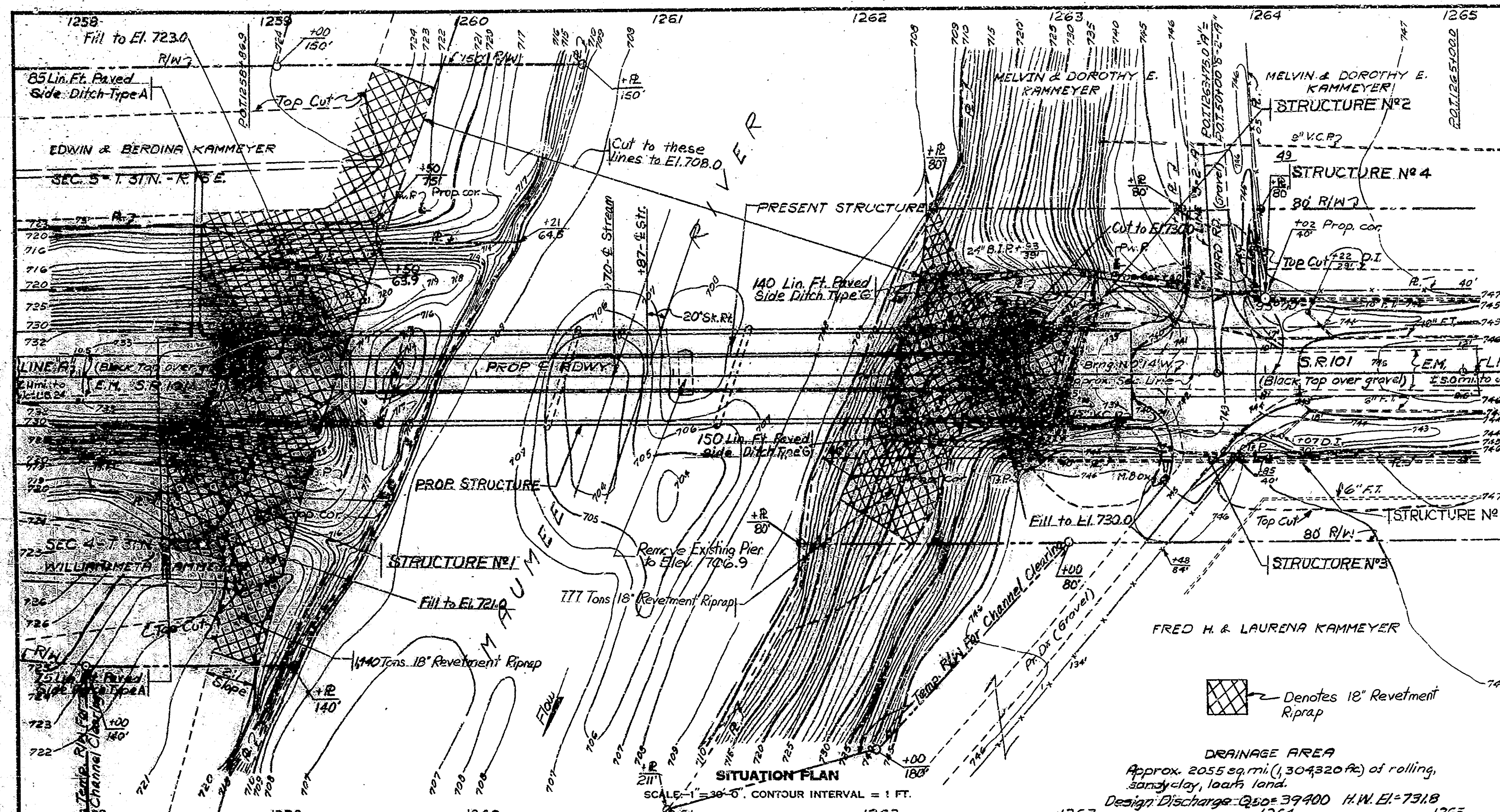
RECOMMENDED FOR APPROVAL

MARCH 21, 1969

DRAWING OF
PROJECT: S-586(2)
BRIDGE CONTRACT NO. B-8127
BRIDGE FILE: 101-02-3782

DESIGNED: DKL CKD: JWW
DRAWN: DB CKD: DCK 4/4/69
TRACED: DRW CKD: JWW



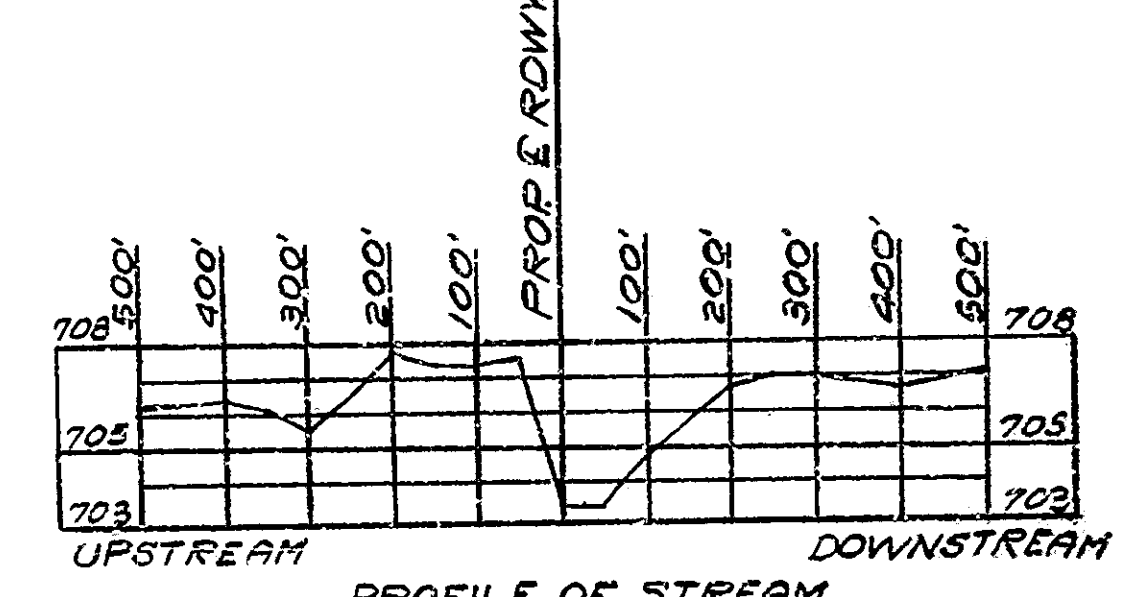


BRIDGES OVER 20' SPAN					
PUB. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	S-586(6)	1969	8	56

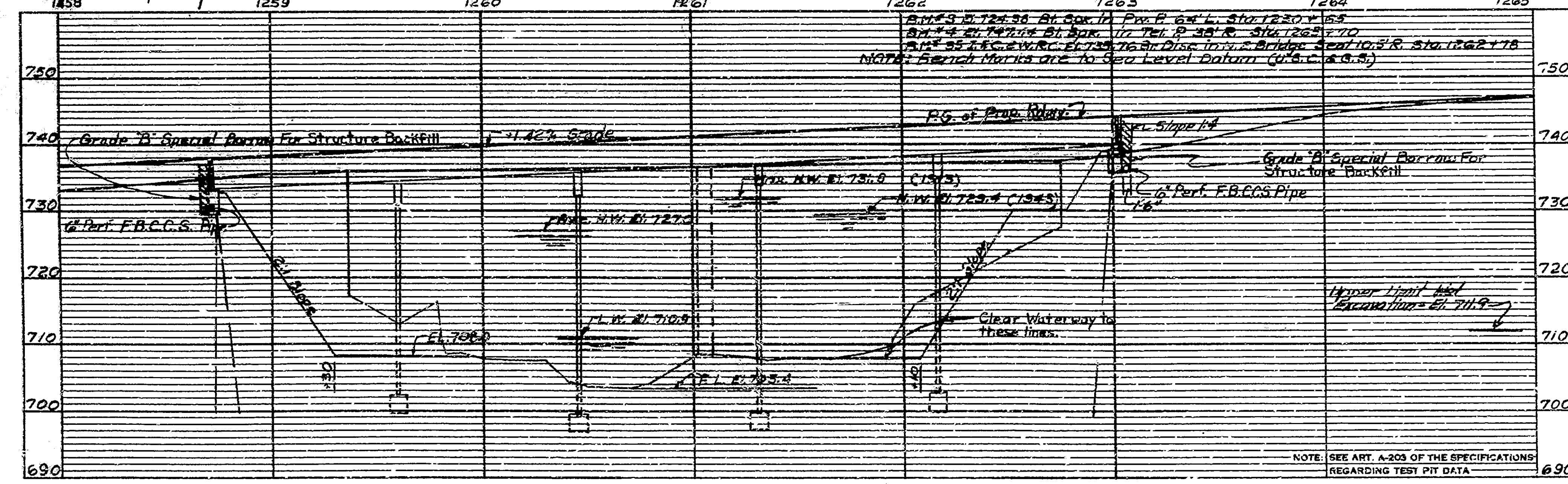
UTILITY OWNERS
Pw. P. - Ind. & Mich. Elec. Co.
Tel. P. - Woodburn Home Tel. Co.

NOTE: SEE ROAD PLANS FOR REFERENCES.

NOTE: Pres. structure built by Co. 1907 as a St. Through Truss 2 @ 17' Square. Cl. Rdwy. 15'-6"
APPROX. WEIGHT OF STR. STEEL = 195,000'



DRAINAGE AREA
Approx. 2055 sq. mi. (1,304,320 ac) of rolling, sandy clay, loam land.
Design Discharge: Q₅₀ = 39,400 CFS H.W. EL. = 731.8
1264



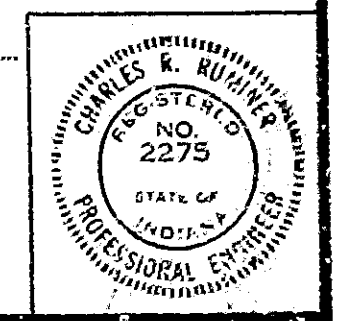
EARTHWORK TABULATION

FILL + 20%	= 20,320	Cu. Yds.
SURPLUS EXCAVATION	= 16,440	Cu. Yds.
COMMON EXCAVATION	= 12,305	Cu. Yds.
WASTE	= 8,425	Cu. Yds.

LAYOUT
CONT. PRESTRESSED REINFC. CONC. I BEAM BRIDGE
5 SPANS (SEE PLANS), 20' SKEW, 42'-0" RDWY., 3" CURBS
OVER MAUMEE RIVER ON SR101
INDIANA STATE HIGHWAY COMMISSION

ALLEN COUNTY
SCALE: -AS NOTED
RECOMMENDED FOR APPROVAL: *C.R. Rummel*
MARCH 21, 1969

DRAWING: C₁ OF 10
PROJECT: S-586(6) STATION: 1260+87
BRIDGE CONTRACT NO. B-8127
BRIDGE FILE: 101-02-5782



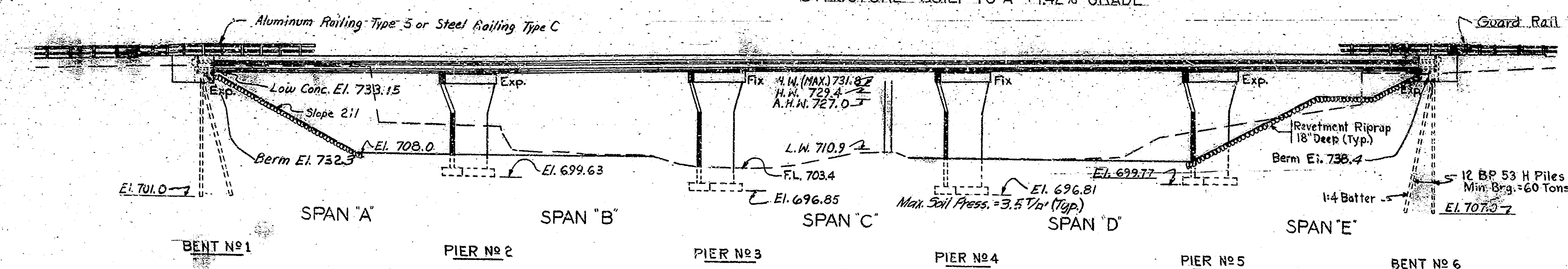
DRAWN: R.R. 20, CND, DATE: 5-11-67
DESIGNED: C.R.P.
TRACED: CND

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

NOTE: FIELD NOTES, BOOK BR. 2069 P. 1-44
Rev. 4-22-69 R/W & R. Rev. 5-28-69 Grade 'B' Special Barrow

STRUCTURE BUILT TO A +1.42% GRADE

BRIDGES OVER 20' SPAN				
PUB. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	TOTAL SHEETS
4	IND.	5-5866	1969	9
				56



GENERAL NOTES

Depth of footings to be extended if found necessary. See Art. 5.40 of Specifications.

Piles shall be driven to minimum bearing value shown on detail drawings. Determine pile lengths by Art. F103 of Specifications.

Piles shall be driven to elevation shown on plans or below if necessary to obtain desired bearing.

For details of steel H Piles see Bridge Standard C, and applicable articles in the Specifications.

Reinforcing steel covering shall be 2 inches in top and 1 inch min. in bottom of floor slabs, 3 inches in footing except bottom steel which shall be 4 inches, and 2 inches in all other parts unless noted.

Concrete in footings and pier stems to construction joint to be class 'E'.

Concrete in superstructure, bent caps and top of pier stem down to construction joint to be class 'F'.

Concrete in paved side ditches to be class 'D'.

Continuous concrete pours shall be required between construction joints as shown on detail plans.

Waterproof back of mudwalls and bent wingwalls in accordance with the specifications.

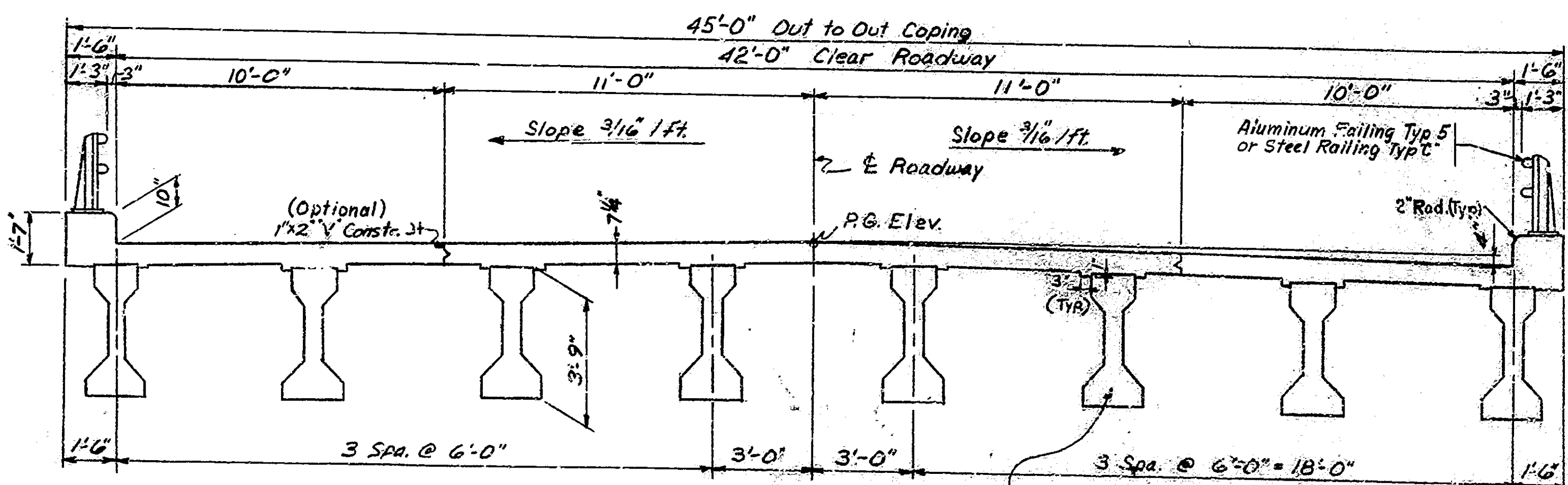
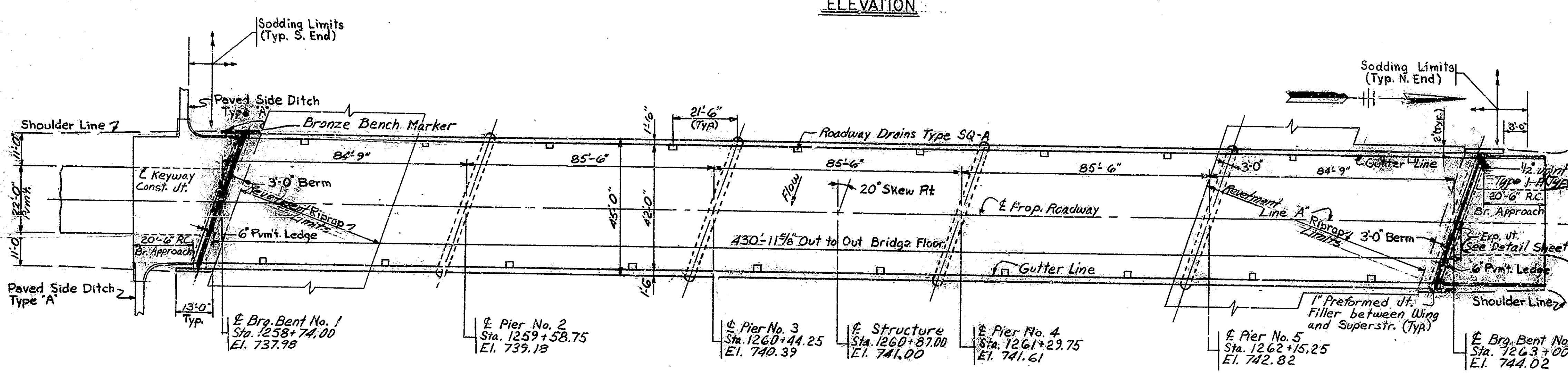
Bevel forms 1/4" under copings; and chamfer exposed edges 1 inch unless noted.

20 standard type SQ-A roadway drains to be placed as shown on this drawing.

Construct 18" revetment riprap at locations as shown on Layout.

Tolerance in position of pile head maximum 2 inches.

Bridge railings to be constructed perpendicular to grade. For pay items covering this structure see 'Bridge Summary'. See Special Provisions for items included in this Contract.



BR. STD.	RD. STD.	PURPOSE
BR1		Aluminum Bridge Railing
BR2		Aluminum Bridge Railing Details
BR3		Steel Bridge Railing
BR4		Steel Bridge Railing Details
C1		Reinf. Steel Notes, Bending Details, Splicing H Piles
D		Roadway Drain Type SQ-A
PB3		Prestressed Concrete Type III I-Beams
PB10		Tolerances for Fabrication of Prestressed Beams
PB11		Elastic Bearing Pad Details
S1		Placing Grade 'E' Special Borrow, Pipe Screen
A		Keyway Constr. Jt.
MA		Reinf. for Bridge App. R/W Markers, Monuments Type 'B'
MB		Paved Side Ditch
MC		Manhole & Earth Ditch Casting
MD1		Manhole Type B Catch Basin Type 'E'
MD3		Manhole Type 'C'
ME2		Culvert Pipe End Sections
ME4		Class II Drive, Class II Field Entrance
MP1		Public Road Approach Type 'C'
MP2		Backfill on Structures
MP3		Pipe Grouping
GR4		Guard Rail Type GA or GST
GR5		Aluminum Guard Rail Details
GR6		Steel Tube Guard Rail Details
SD1		Standard Detour Signs
SD2		Standard Detour Signs
SD3		Standard Detour Signs
SD4		Standard Detour Signs
SD5		Standard Detour Signs
SD6		Standard Detour Signs
SD7		Standard Detour Signs
SD8		Standard Detour Signs
SD9		Standard Detour Signs
SD10		Standard Detour Signs
SD11		Standard Detour Signs
SD12		Standard Detour Signs
SD13		Standard Detour Signs
SD14		Standard Detour Signs
SD15		Standard Detour Signs
SD16		Standard Detour Signs
SD17		Standard Detour Signs
SD18		Standard Detour Signs
SD19		Standard Detour Signs
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SD92		Standard Detour Signs
SD93		Standard Detour Signs
SD94		Standard Detour Signs
SD95		Standard Detour Signs
SD96		Standard Detour Signs
SD97		Standard Detour Signs
SD98		Standard Detour Signs
SD99		Standard Detour Signs
SD100		Standard Detour Signs

TYPICAL CROSS SECTION
See Sheet N22

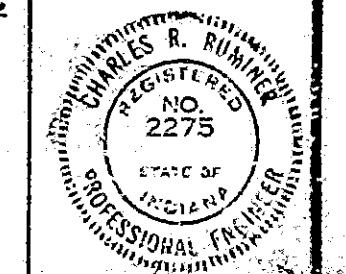
DESIGN DATA
Designed for HS20-44 loading in accordance with 1965 A.A.S.H.O. Specifications.

GENERAL PLAN
CONT. PRESTRESSED REINF. CONC. I-BEAM BRIDGE
5-SPANS (SEE PLANS), 20' SK. RT., 42'-0" RDWY., 3" CURBS
OVER MAUMEE RIVER ON S.R. 101

INDIANA STATE HIGHWAY COMMISSION
ALLEN COUNTY

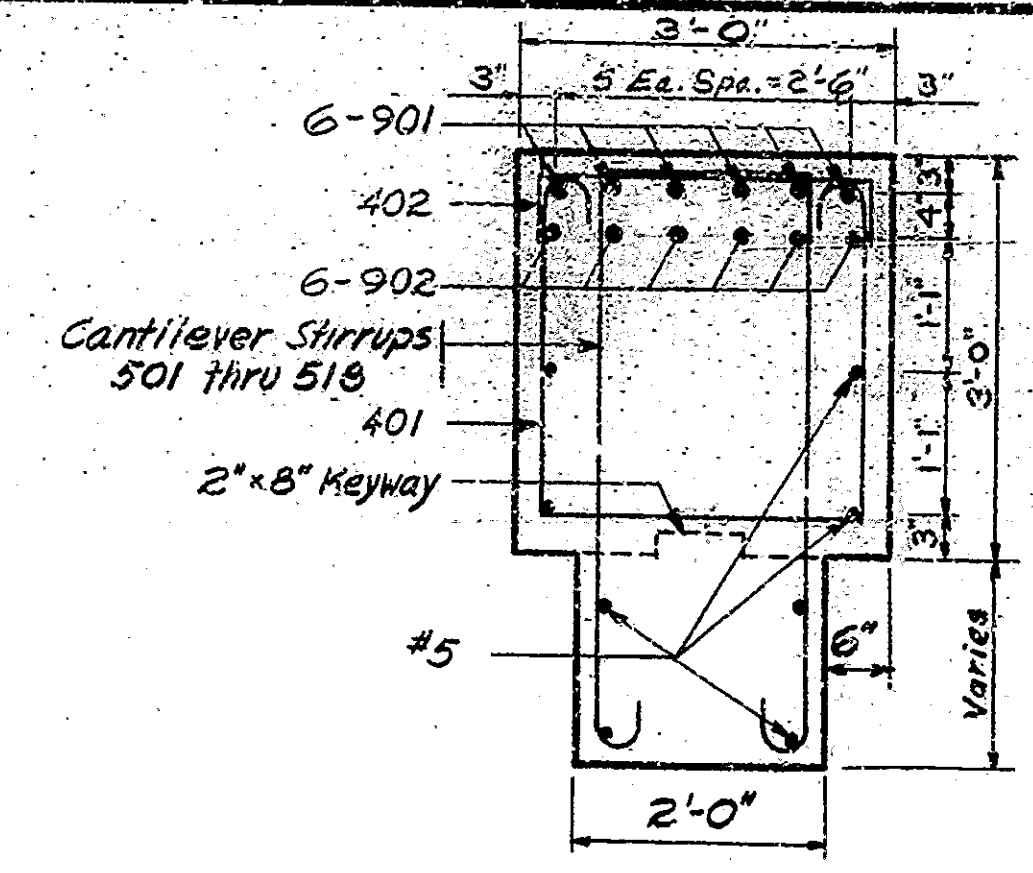
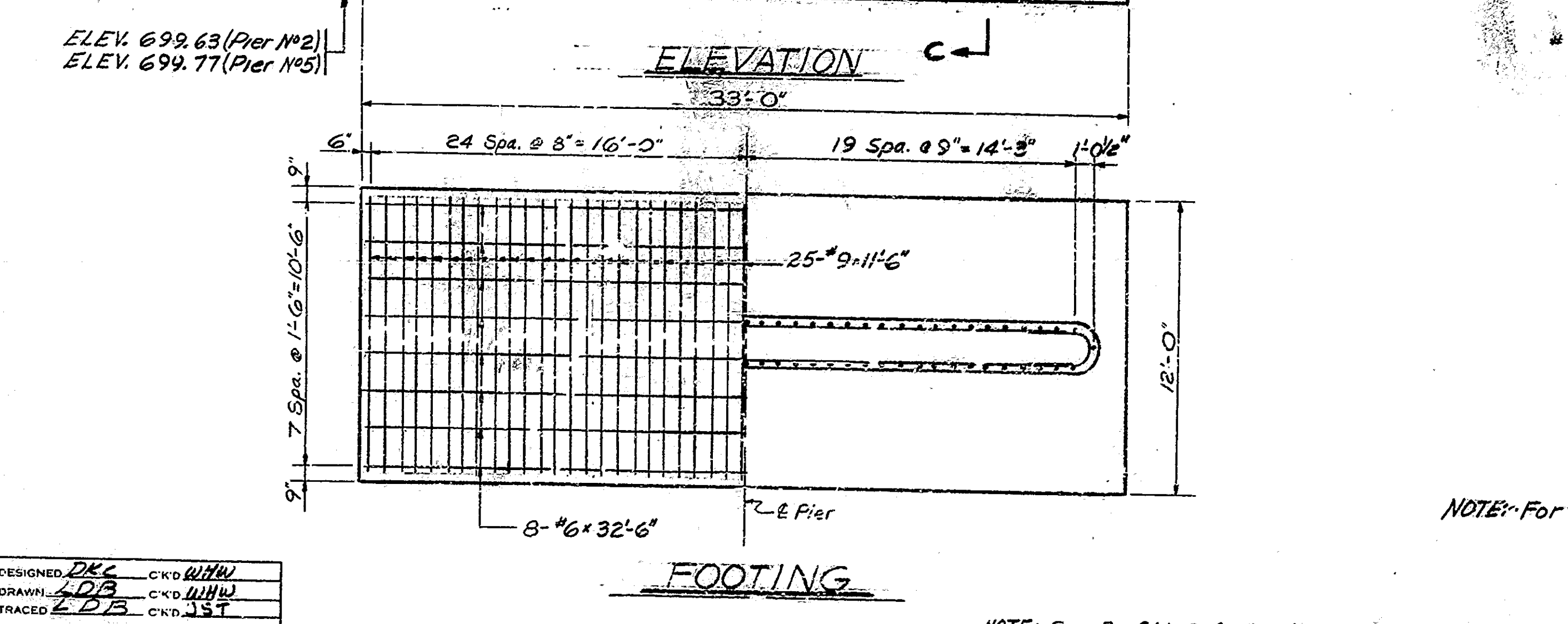
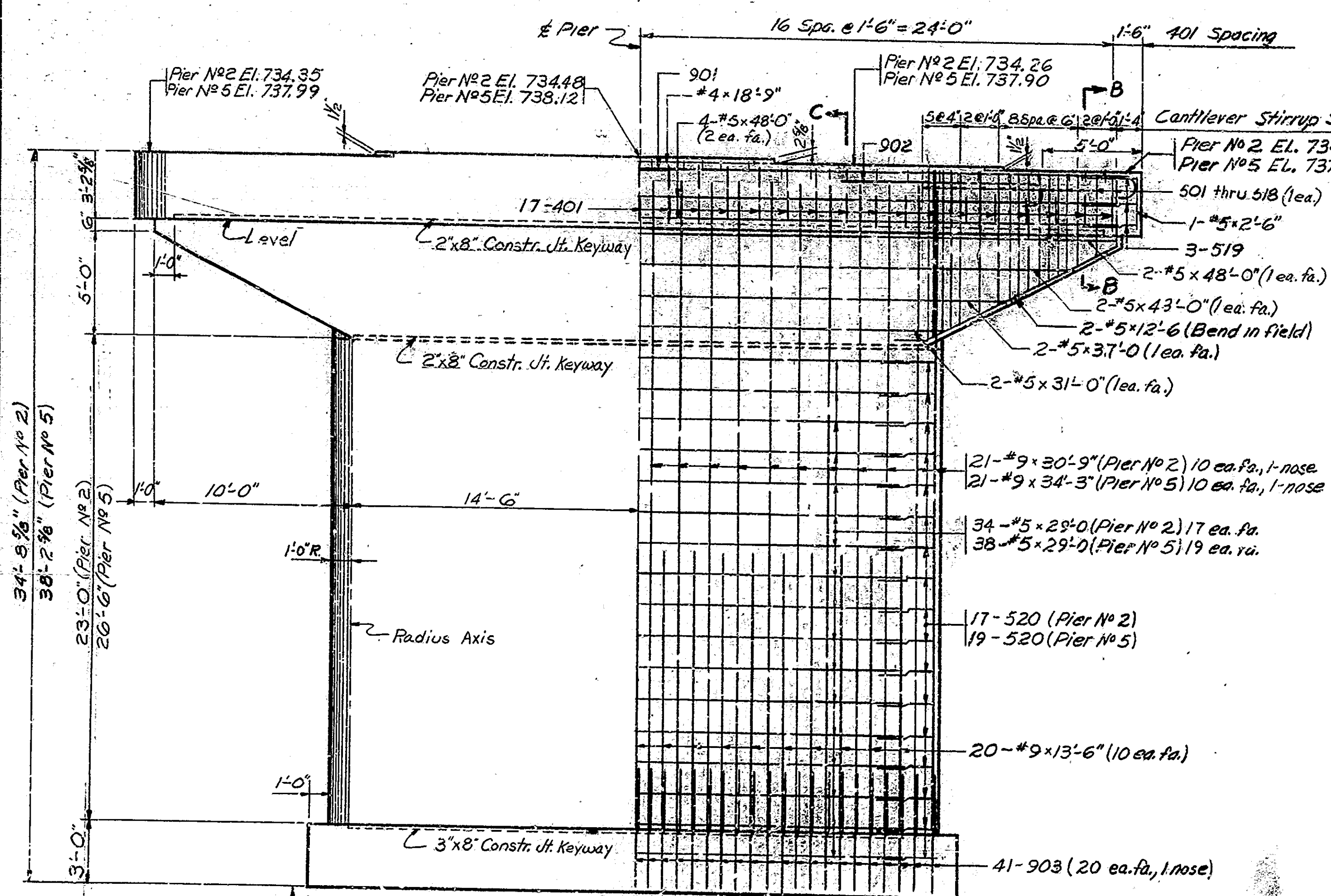
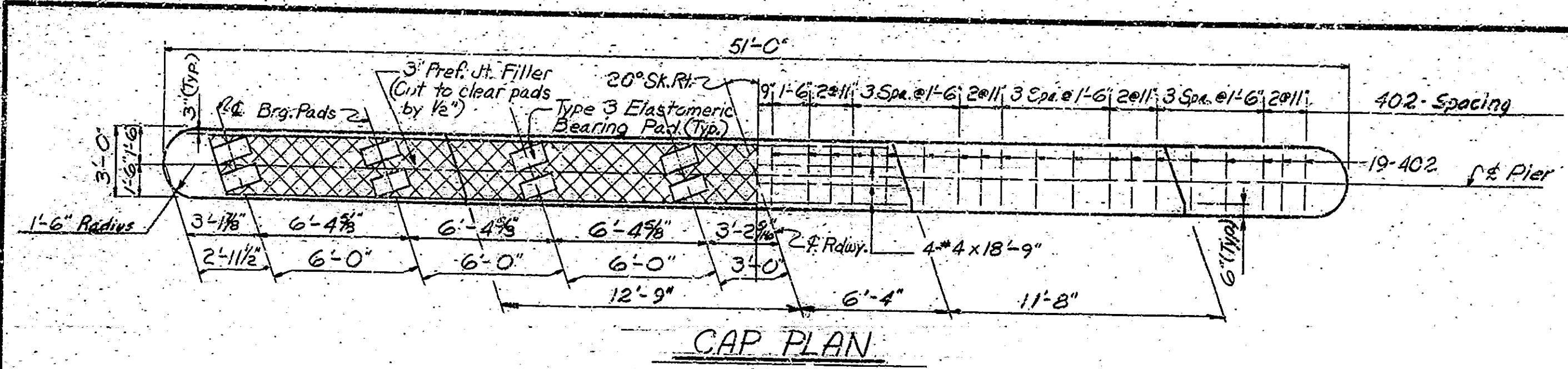
SCALE: 1"=20' Unless Noted
RECOMMENDED FOR APPROVAL: [Signature] MARCH 21, 1969

DRAWING: C2 OF 10
PROJECT: S-586(6)
BRIDGE CONTRACT NO. B-8127 & Sta. 1260.187
BRIDGE FILE: 101-02-3782

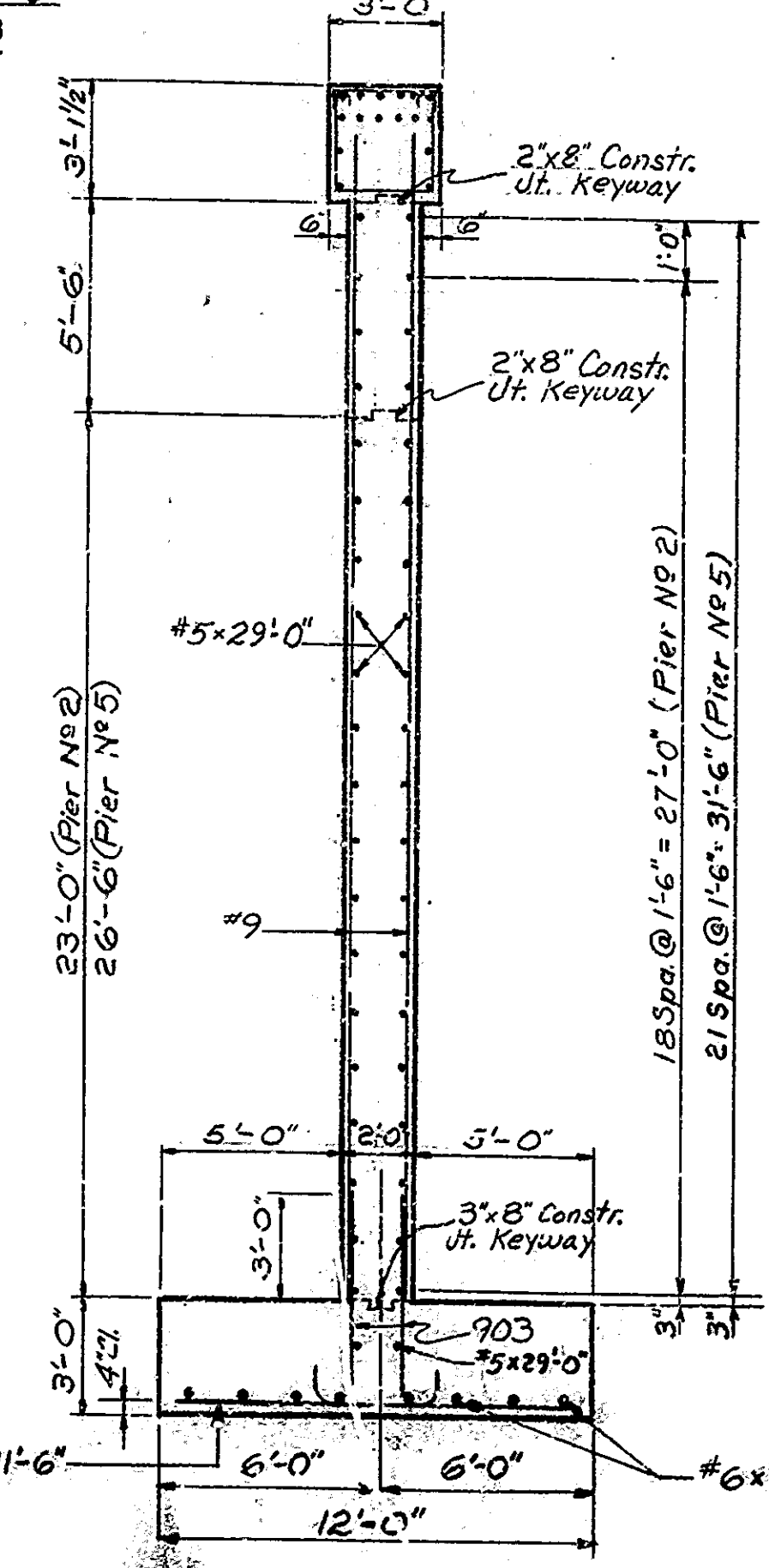


DESIGNED: DBC CKD W/HW
DRAWN: DBC CKD W/HW
TRACED: DBC CKD W/HW

BRIDGES OVER 30' SPAN					
PUB. ROAD REG. NO.	STATE	PROJ. CT. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	5-586(6)	1969	11	56



Length	Mark	h	Length
19'-2"	501	8'-2"	18'-10"
18'-4"	502	8'-0"	17'-10"
18'-2"	503	7'-10"	17'-4"
17'-10"	504	7'-8"	17'-0"
17'-6"	505	7'-6"	16'-6"
17'-4"	506	7'-4"	16'-2"
17'-2"	507	7'-2"	15'-8"
17'-0"	508	7'-0"	15'-4"
16'-8"	509	6'-8"	15'-0"
16'-6"	510	6'-6"	14'-6"
16'-4"	511	6'-4"	14'-2"
16'-2"	512	6'-2"	13'-8"
16'-0"	513	6'-0"	13'-4"
15'-8"	514	5'-8"	13'-0"
15'-6"	515	5'-6"	12'-6"
15'-4"	516	5'-4"	12'-2"
15'-2"	517	5'-2"	11'-8"
15'-0"	518	5'-0"	11'-4"
14'-8"	519	4'-8"	11'-0"
14'-6"	520	4'-6"	10'-6"
14'-4"	521	4'-4"	10'-2"
14'-2"	522	4'-2"	9'-8"
14'-0"	523	4'-0"	9'-4"
13'-8"	524	3'-8"	9'-0"
13'-6"	525	3'-6"	8'-6"
13'-4"	526	3'-4"	8'-2"
13'-2"	527	3'-2"	7'-8"
13'-0"	528	3'-0"	7'-4"
12'-8"	529	2'-8"	7'-0"
12'-6"	530	2'-6"	6'-6"
12'-4"	531	2'-4"	6'-2"
12'-2"	532	2'-2"	5'-8"
12'-0"	533	2'-0"	5'-4"
11'-8"	534	1'-8"	5'-0"
11'-6"	535	1'-6"	4'-6"
11'-4"	536	1'-4"	4'-2"
11'-2"	537	1'-2"	3'-8"
11'-0"	538	1'-0"	3'-4"
10'-8"	539	0'-8"	3'-0"
10'-6"	540	0'-6"	2'-6"
10'-4"	541	0'-4"	2'-2"
10'-2"	542	0'-2"	1'-8"
10'-0"	543	0'-0"	1'-4"
9'-8"	544	0'-0"	1'-0"
9'-6"	545	0'-0"	0'-6"
9'-4"	546	0'-0"	0'-2"
9'-2"	547	0'-0"	0'-0"
9'-0"	548	0'-0"	0'-0"



BILL of MATERIALS

PIER No 2				PIER No 5					
REINFORCING STEEL	SIZE & MARK	No. of BARS	LENGTH	WEIGHT	REINFORCING STEEL	SIZE & MARK	No. of BARS	LENGTH	WEIGHT
901	12	28	0'-0"		901	12	28	0'-0"	
902	12	11	3'-0"		902	12	11	3'-0"	
903	80	1	0'-0"		903	80	1	0'-0"	
99	42	30	9'-0"		99	42	30	9'-0"	
99	38	13	6'-0"		99	38	13	6'-0"	
99	40	11	6'-0"		99	40	11	6'-0"	
TOTAL #9				11597*	TOTAL #9				12056*
#6	8	32	6'-0"	391*	#6	8	32	6'-0"	391*
501	2	18	6'-0"	192*	501	2	18	6'-0"	192*
502	2	17	8'-0"	125*	502	2	17	8'-0"	125*
503	2	17	4'-0"	125*	503	2	17	4'-0"	125*
504	2	17	4'-0"	125*	504	2	17	4'-0"	125*
505	2	16	4'-0"	117*	505	2	16	4'-0"	117*
506	2	16	4'-0"	117*	506	2	16	4'-0"	117*
507	2	15	4'-0"	112*	507	2	15	4'-0"	112*
508	2	14	4'-0"	107*	508	2	14	4'-0"	107*
509	2	13	4'-0"	102*	509	2	13	4'-0"	102*
510	2	12	4'-0"	97*	510	2	12	4'-0"	97*
511	2	11	4'-0"	92*	511	2	11	4'-0"	92*
512	2	10	4'-0"	87*	512	2	10	4'-0"	87*
513	2	9	4'-0"	82*	513	2	9	4'-0"	82*
514	2	8	4'-0"	77*	514	2	8	4'-0"	77*
515	2	7	4'-0"	72*	515	2	7	4'-0"	72*
516	2	6	4'-0"	67*	516	2	6	4'-0"	67*
517	2	5	4'-0"	62*	517	2	5	4'-0"	62*
518	2	4	4'-0"	57*	518	2	4	4'-0"	57*
519	2	3	4'-0"	52*	519	2	3	4'-0"	52*
520	2	2	4'-0"	47*	520	2	2	4'-0"	47*
521	2	1	4'-0"	42*	521	2	1	4'-0"	42*
522	2	0	4'-0"	37*	522	2	0	4'-0"	37*
523	2	0	4'-0"	32*	523	2	0	4'-0"	32*
524	2	0	4'-0"	27*	524	2	0	4'-0"	27*
525	2	0	4'-0"	22*	525	2	0	4'-0"	22*
526	2	0	4'-0"	17*	526	2	0	4'-0"	17*
527	2	0	4'-0"	12*	527	2	0	4'-0"	12*
528	2	0	4'-0"	7*	528	2	0	4'-0"	7*
529	2	0	4'-0"	2*	529	2	0	4'-0"	2*
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531	2	0	4'-0"	0	531	2	0	4'-0"	0
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539	2	0	4'-0"	0	539	2	0	4'-0"	0
540	2	0	4'-0"	0	540	2	0	4'-0"	0
541	2	0	4'-0"	0	541	2	0	4'-0"	0
542	2	0	4'-0"	0	542	2	0	4'-0"	0
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554	2	0	4'-0"	0	554	2	0	4'-0"	0
555	2	0	4'-0"	0	555	2	0	4'-0"	0
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567	2	0	4'-0"	0	567	2	0	4'-0"	0
568	2	0	4'-0"	0	568	2	0	4'-0"	0
569	2	0	4'-0"	0	569	2	0	4'-0"	0
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571	2	0	4'-0"	0	571	2	0	4'-0"	0
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581	2	0	4'-0"	0	581	2	0	4'-0"	0
582	2	0	4'-0"	0	582	2	0	4'-0"	0
583	2	0	4'-0"	0	583	2	0	4'-0"	0
584	2	0	4'-0"	0	584	2	0	4'-0"	0
585	2	0	4'-0"	0	585	2	0	4'-0"	0
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598	2	0	4'-0"	0	598	2	0	4'-0"	0
599	2	0	4'-0"	0	599	2	0	4'-0"	0
600	2	0	4'-0"	0	600	2	0	4'-0"	0
401	33	9'-0"		342*	401	33	9'-0"		342*
402	38	9'-0"		428*	402	38	9'-0"		428*
403	4	18'-9"		74*	403	4	18'-9"		74*
TOTAL #4				342*	TOTAL #4				342*
TOTAL STEEL				14,714*	TOTAL STEEL				15,359*
CONCRETE				14,714*	CONCRETE				15,359*
Class F-1 CAP				18.0 Cu Yds	Class F-1 CAP				18.0 Cu Yds
Above Constr. It.				16.3 Cu Yds	Above Constr. It.				16.3 Cu Yds
TOTAL CLASS F				34.3 Cu Yds	TOTAL CLASS F				34.3 Cu Yds
Class E Above Ftg.				52.1 Cu Yds	Class E Above Ftg.				60.6 Cu Yds
Class E Footing				44.0 Cu Yds	Class E Footing				44.0 Cu Yds

PIER No 2 & 5 DETAILS INDIANA STATE HIGHWAY COMMISSION

SCALE: 1/4" = 1'-0" (Unless Noted) MARCH 21, 1969

RECOMMENDED FOR APPROVAL: *C.R. Rimmer*

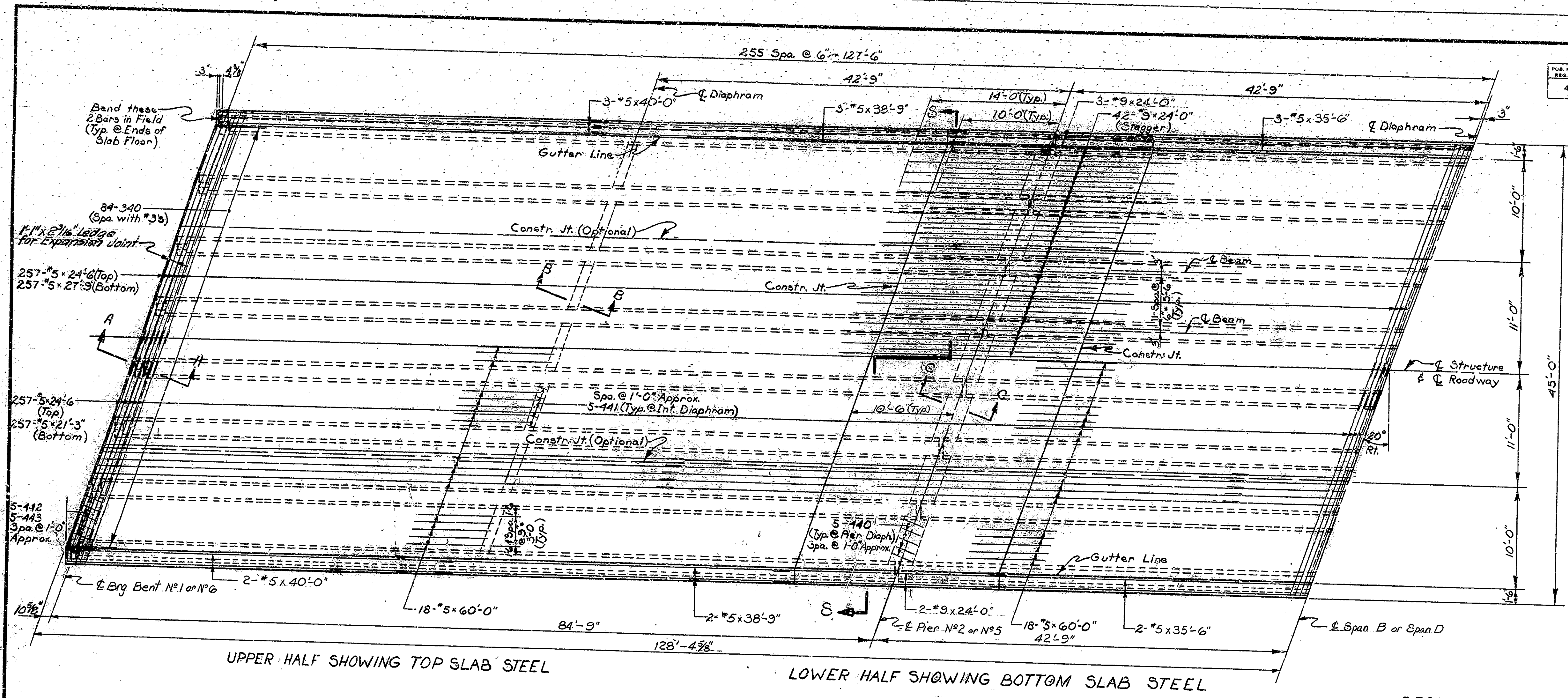
DRAWING: C4 OF 10
PROJECT: 5-586(6)
BRIDGE CONTRACT NO. B-8127
BRIDGE FILE: 101-02-5762

DESIGNED: D.K.C. C.K.D. W.H.W.
DRAWN: L.D.B. C.K.D. W.H.W.
TRACED: L.D.B. C.K.D. W.H.W.

NOTE: See Br. Std. C, for Reinf. Bar Notes.

Rev. 9/4/69, 501 thru 518 Lengths.

BRIDGES OVER 20' SPAN				
PUB. ROAD REG. NO.	STATE	PROJECT NO.	FISCAL YEAR	TOTAL SHEETS
4	IND	S-586	1969	13
				56

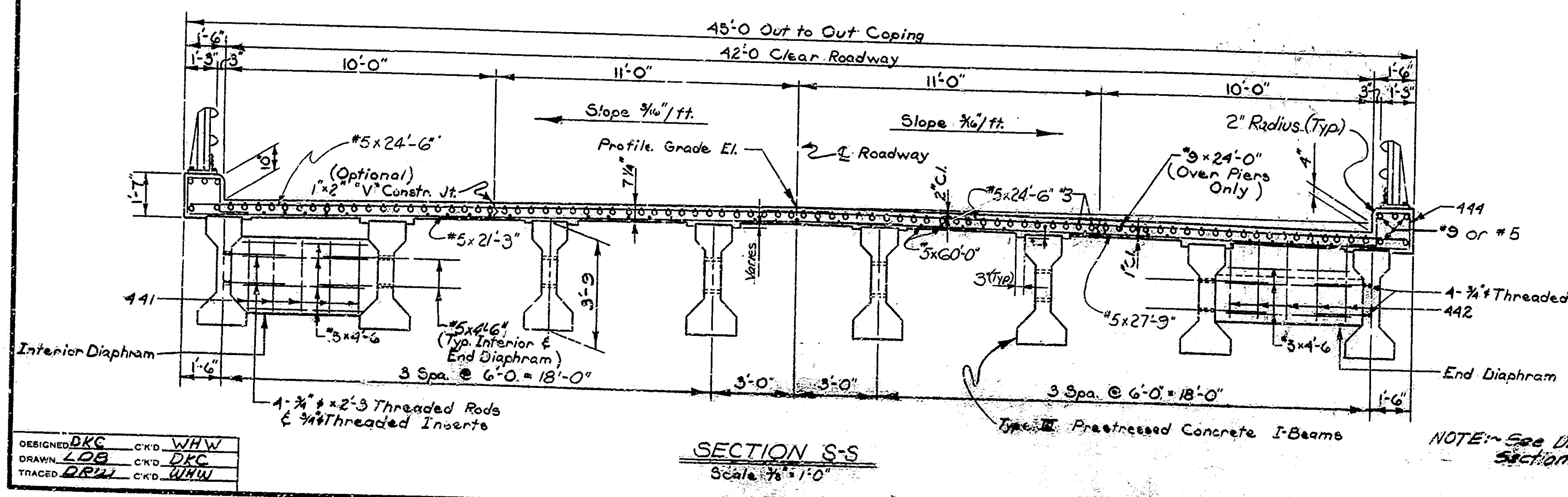


PLAN
Scale 3/16" = 1'-0"

NOTE: Top reinforcing steel shall be supported on chains under the top transverse reinforcing bars.

DESIGN DATA

Reinforced Concrete:
 Unit Stresses ~ $f_s = 20,000 \text{ lbs/in}^2$ $f_c = 1,200 \text{ lbs/in}^2$
 Live Load ~ HS20-44 with impact and distribution of loads in accordance with 1965 A.A.S.H.O. Specs.
 Dead Load ~ Increased 35 lbs/ft² of roadway width for future wearing surface. Slab designed with 1" wearing surface.



SECTION S-S
Scale 3/16" = 1'-0"

NOTE: See Draw. C7 for Sections A-A, B-B & C-C.

NOTE: See Br. Std. C1 for Reinforcing Bar Notes.

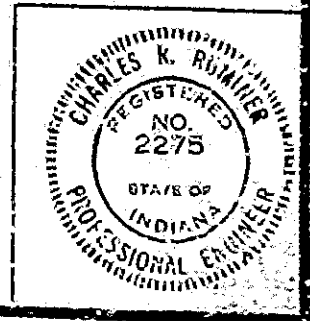
SUPERSTRUCTURE DETAILS
INDIANA STATE HIGHWAY COMMISSION

SCALE: AS NOTED

MARCH 21, 1969

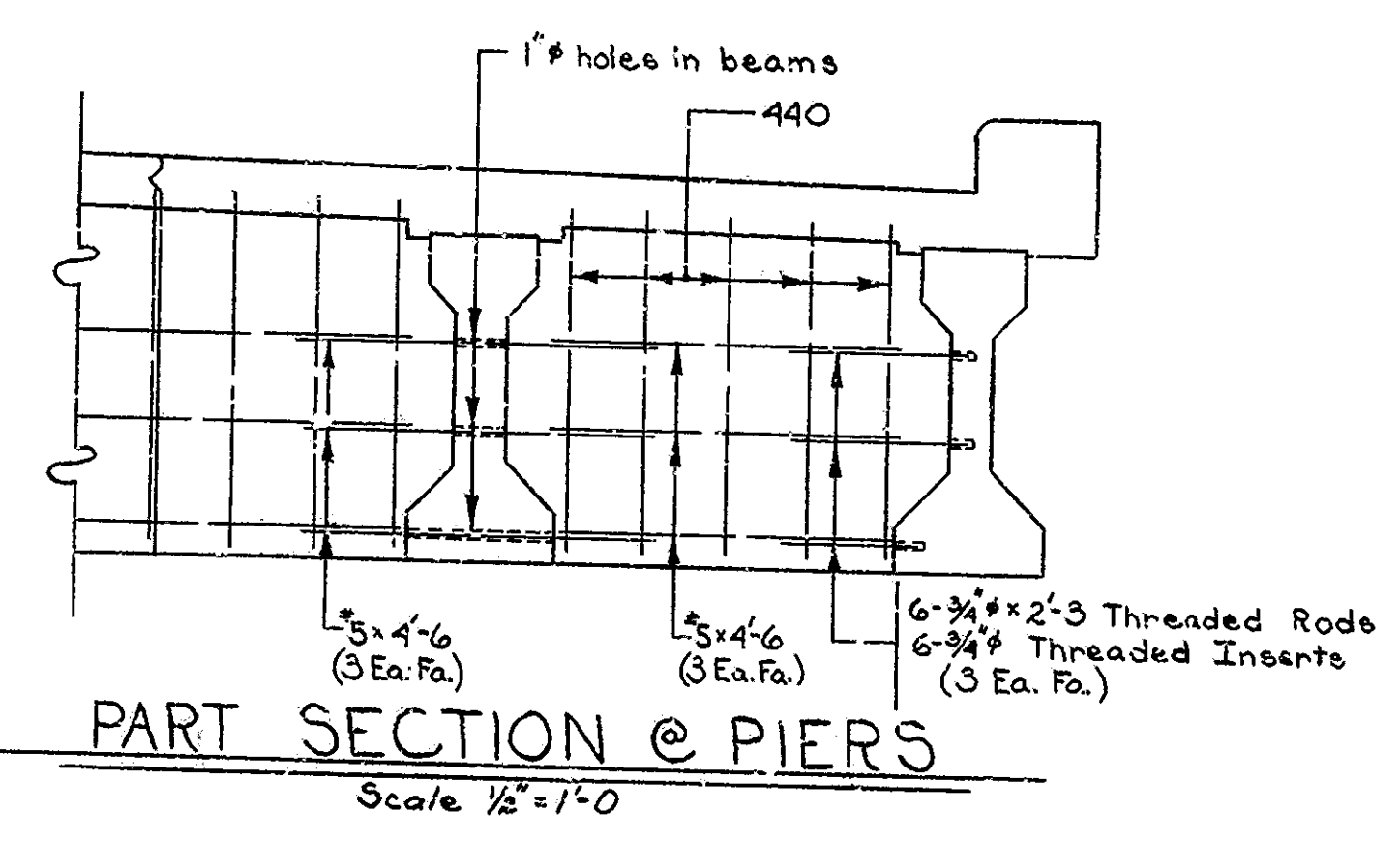
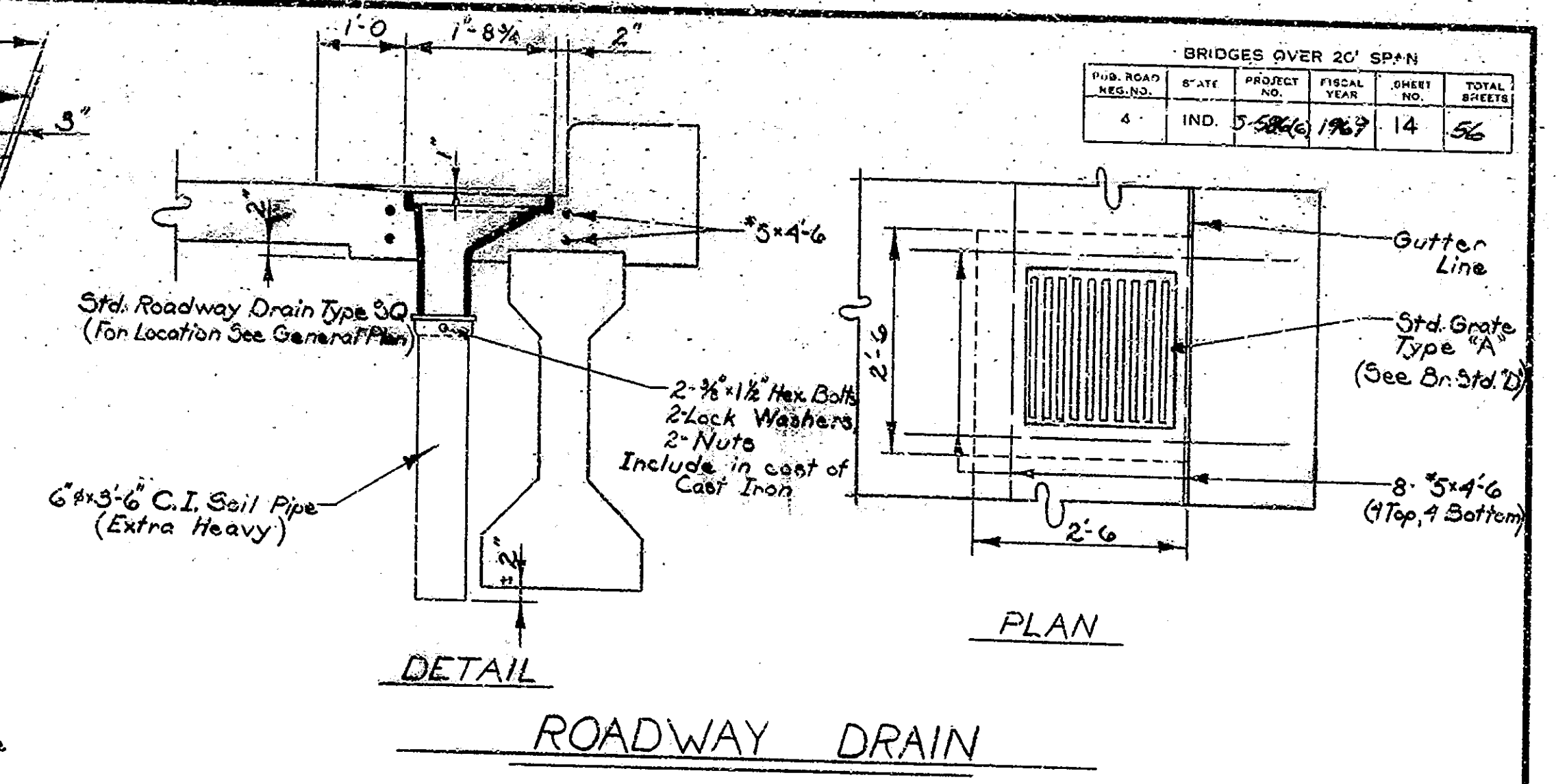
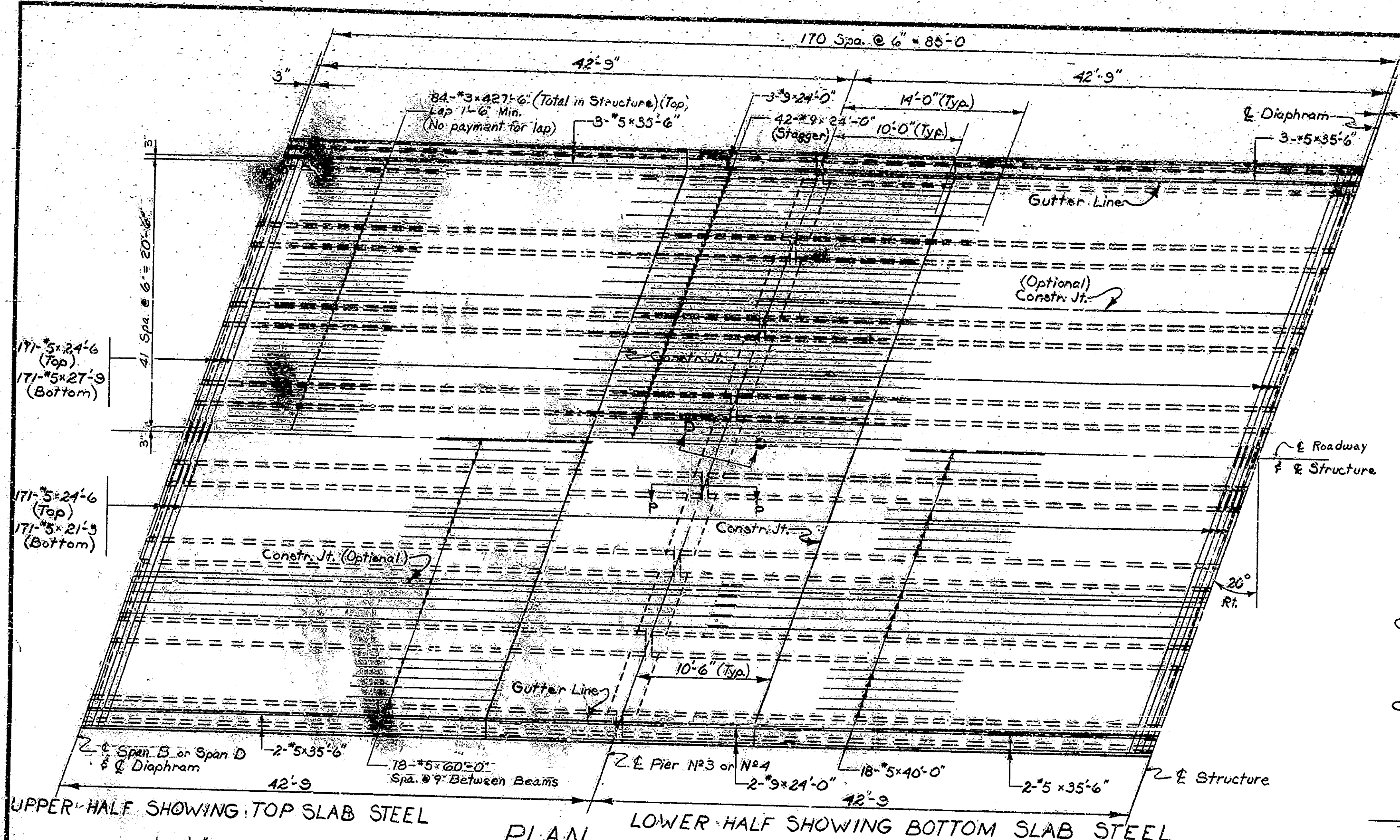
RECOMMENDED FOR APPROVAL: *[Signature]*

DRAWING: C6 OF 10
 PROJECT: S-586 (6)
 BRIDGE CONTRACT NO. B-8127
 BRIDGE FILE: 101-02-5782

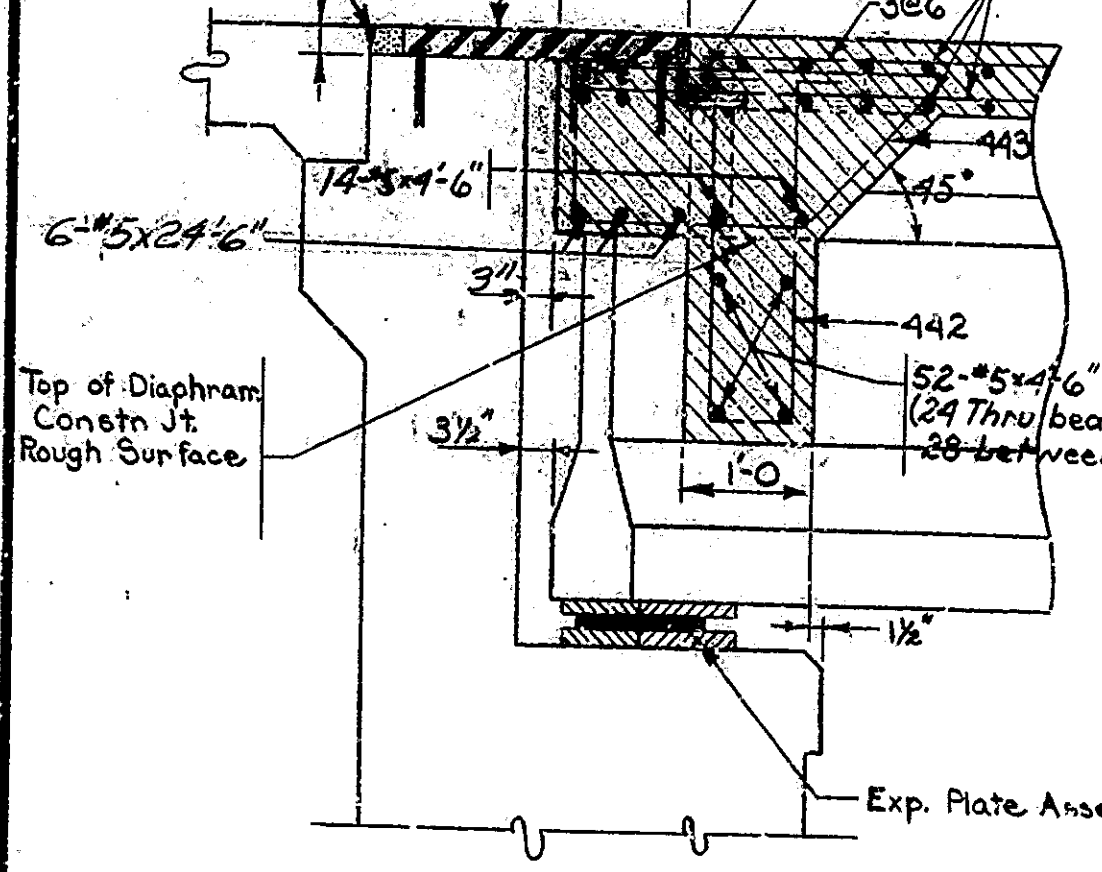


DESIGNED: DKC CKD: WHW
 DRAWN: LDB CKD: DKC
 TRACED: DRW CKD: WHW

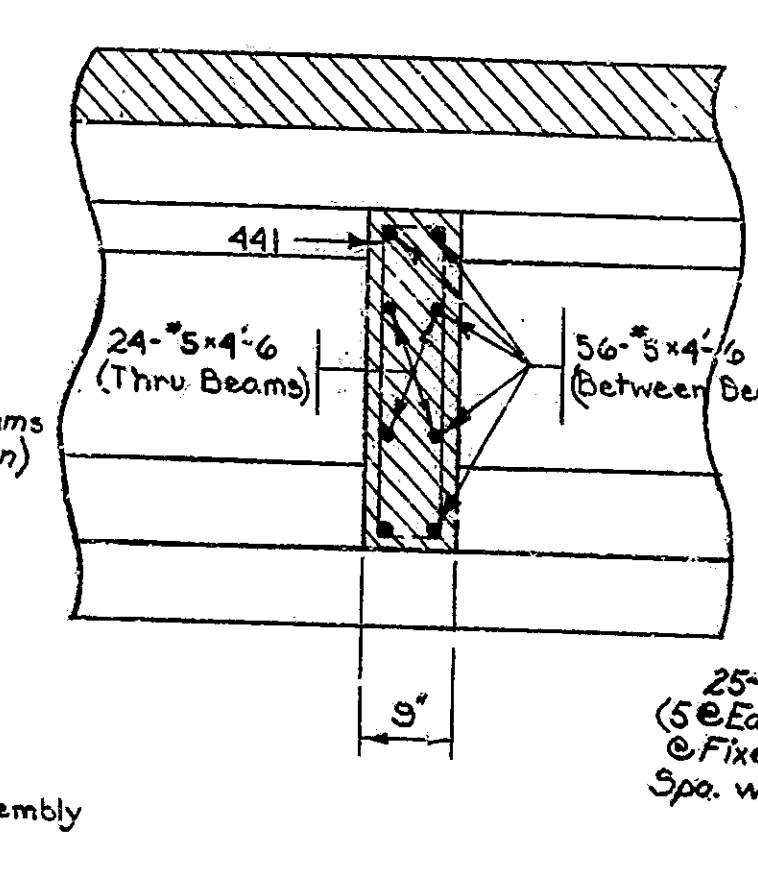
BRIDGES OVER 20' SPAN				
IND. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	TOTAL SHEETS
4	IND.	5-586	1967	56



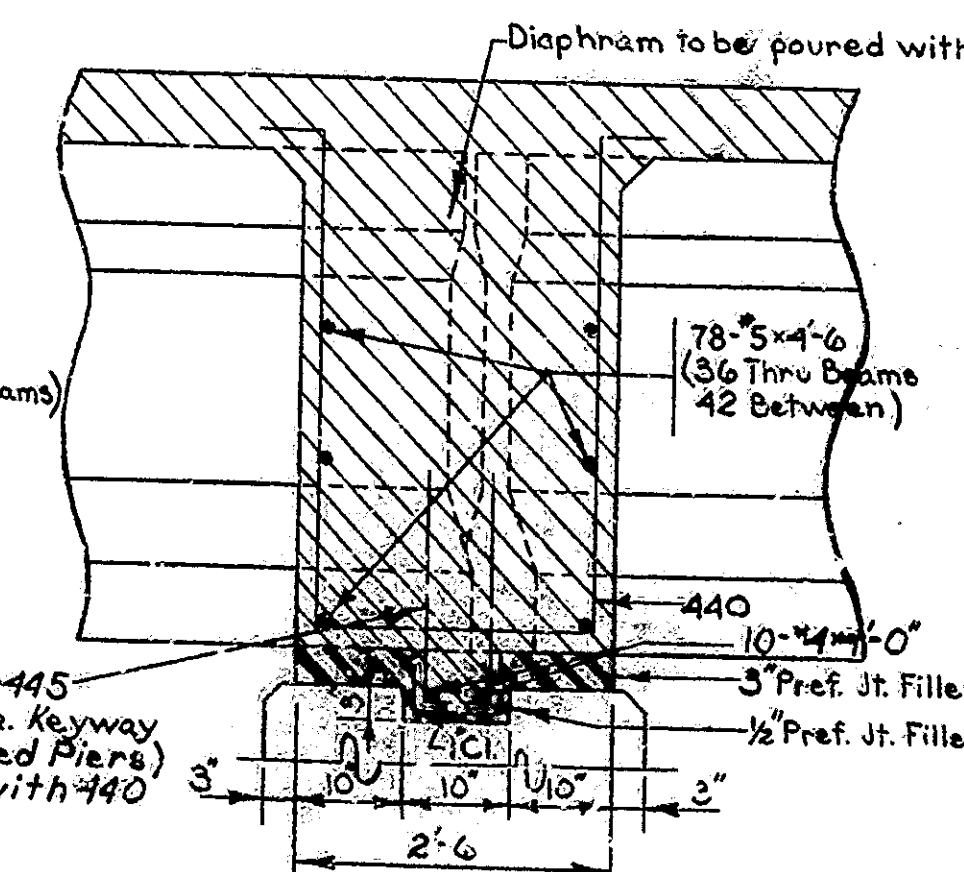
UPPER HALF SHOWING TOP SLAB STEEL
 PLAN Scale 3/16" = 1'-0"
 LOWER HALF SHOWING BOTTOM SLAB STEEL



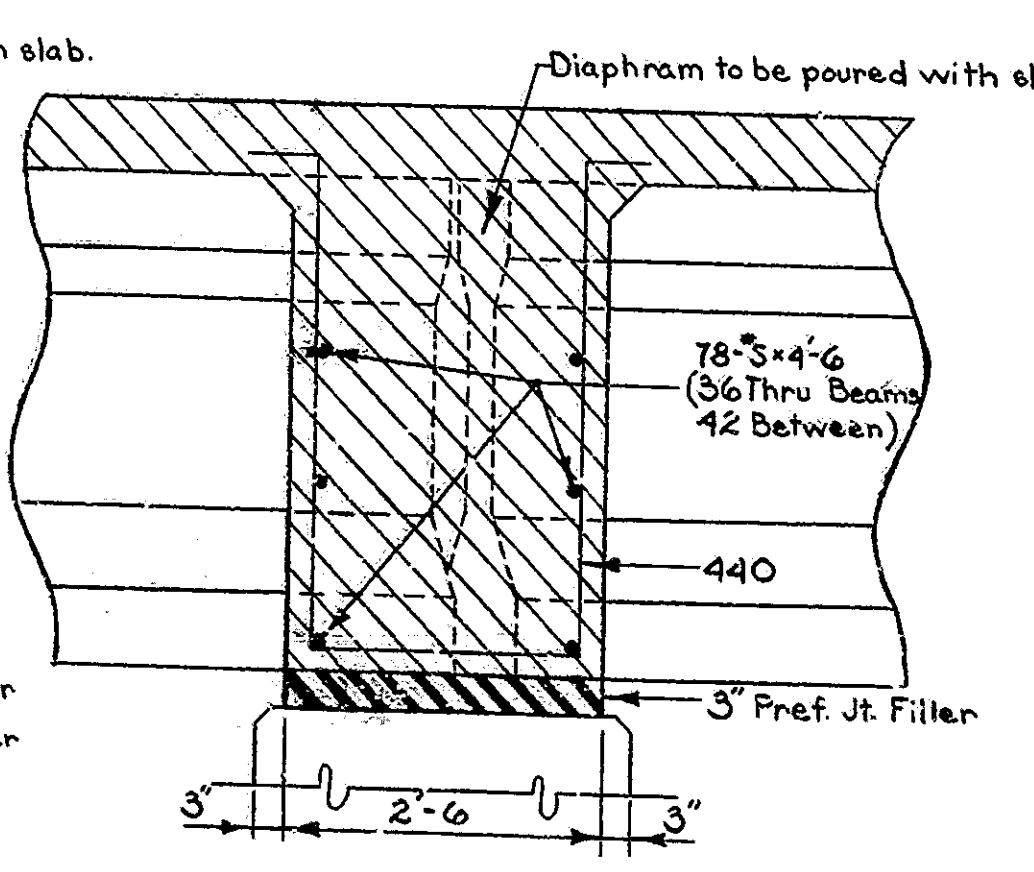
SECTION A-A



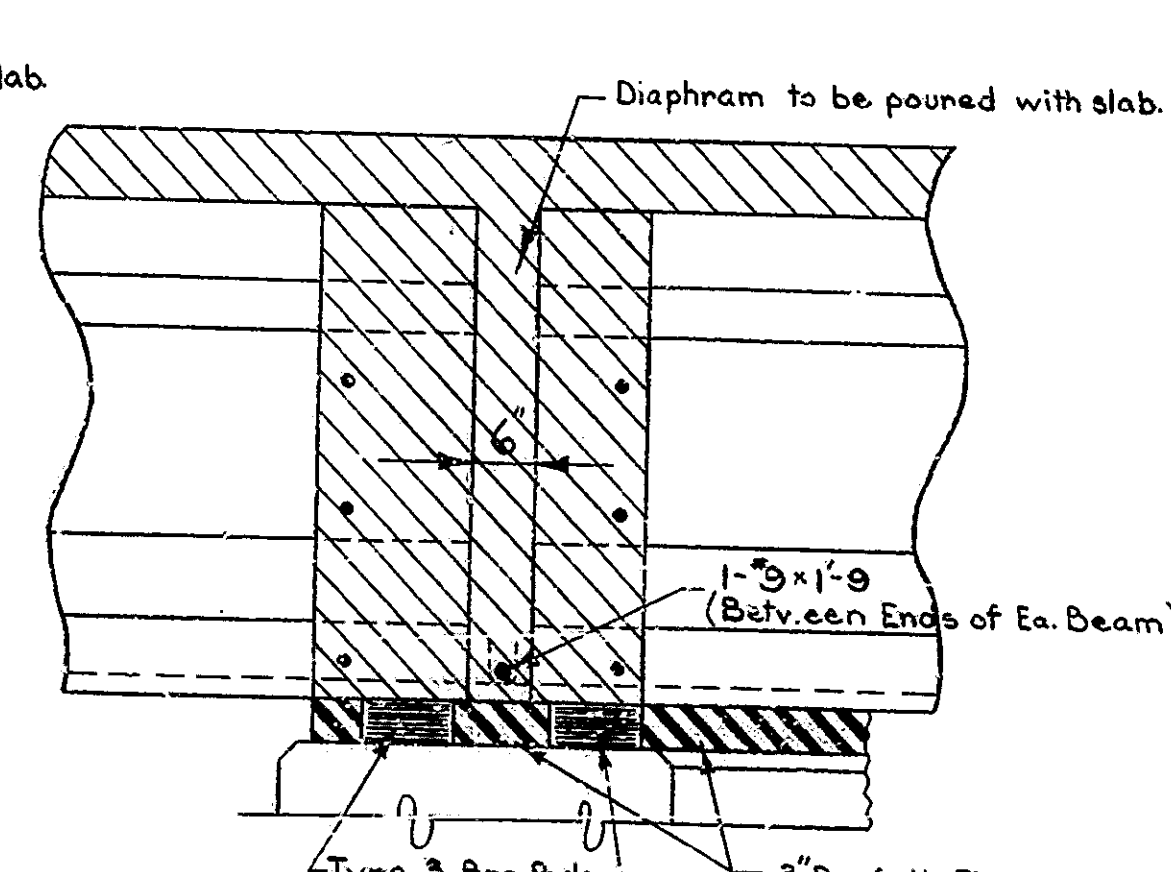
SECTION B-B



SECTION D-D



SECTION C-C



SECTION P-P

NOTE: See Draw. C6 for location of Section A-A, B-B & C-C.

SUPERSTRUCTURE DETAILS
INDIANA STATE HIGHWAY COMMISSION

SCALE: 3/4" = 1'-0", Unless Noted
 MARCH 21, 1967

RECOMMENDED FOR APPROVAL: *C. R. Rimmer*

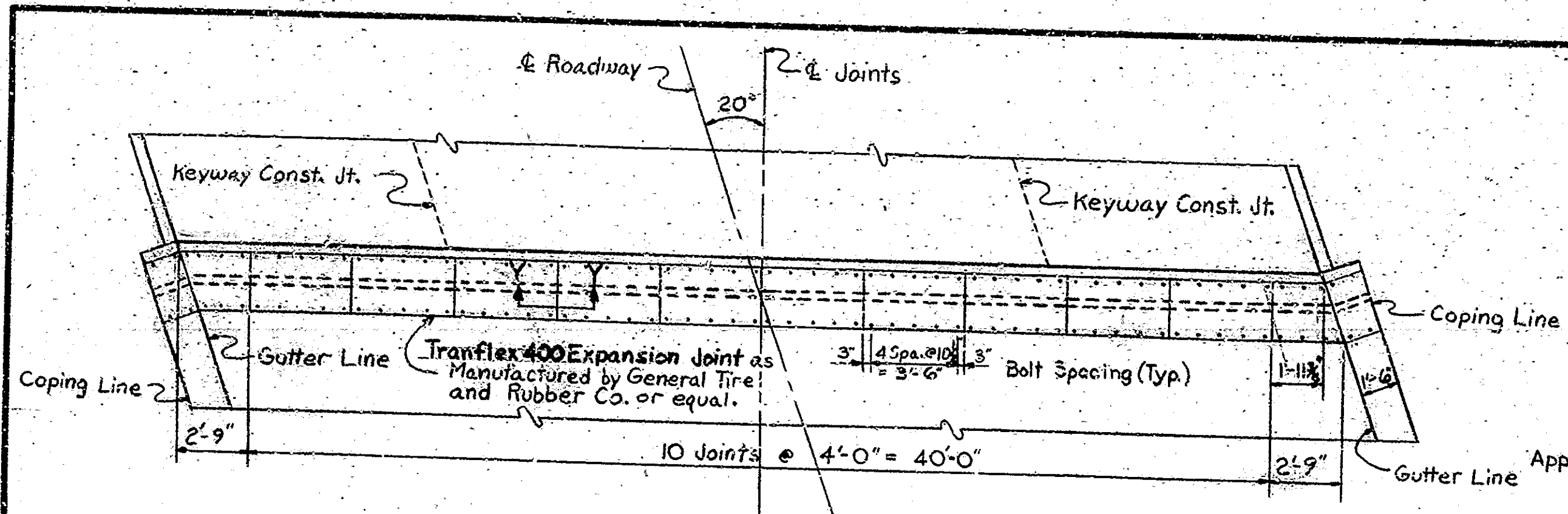
DRAWING: C7 OF 10
 PROJECT: 5-586(6)
 BRIDGE CONTRACT NO. B-8127
 BRIDGE FILE: 101-02-5782



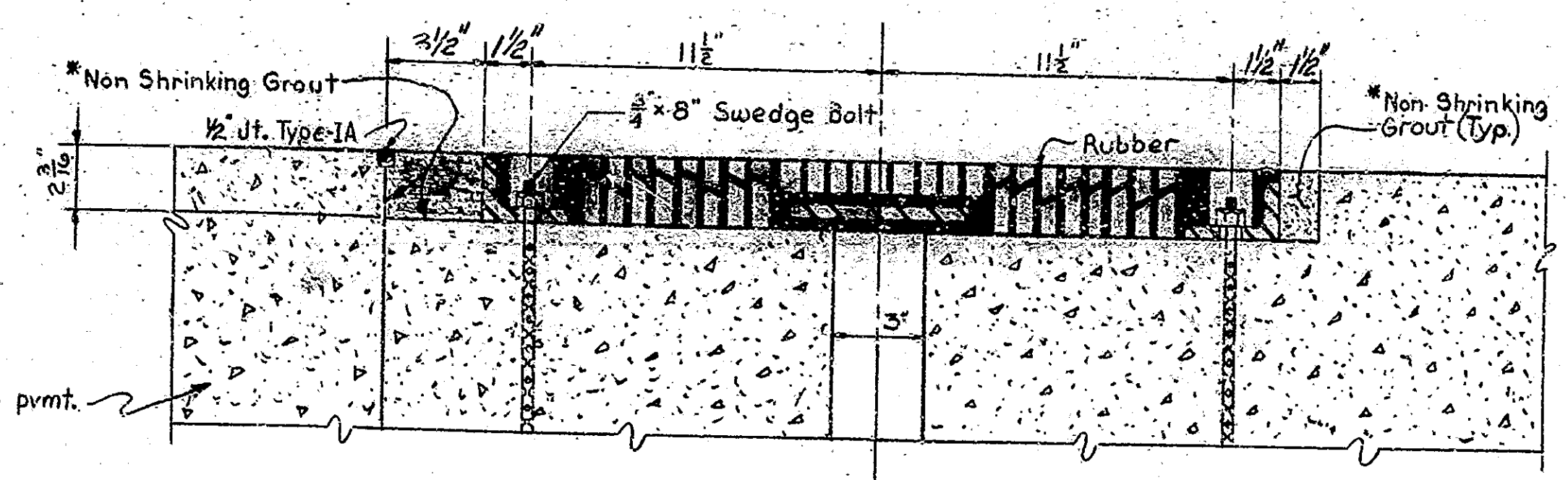
DESIGNED: DKC CKD WHW
 DRAWN: LDB CKD DKC
 TRACED: DRW CKD WHW

NOTE: See Br. Str. C1 for Reinforcing Bar Notes.

BRIDGES OVER 20' SPAN					
FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	5-5246	1969	15	56



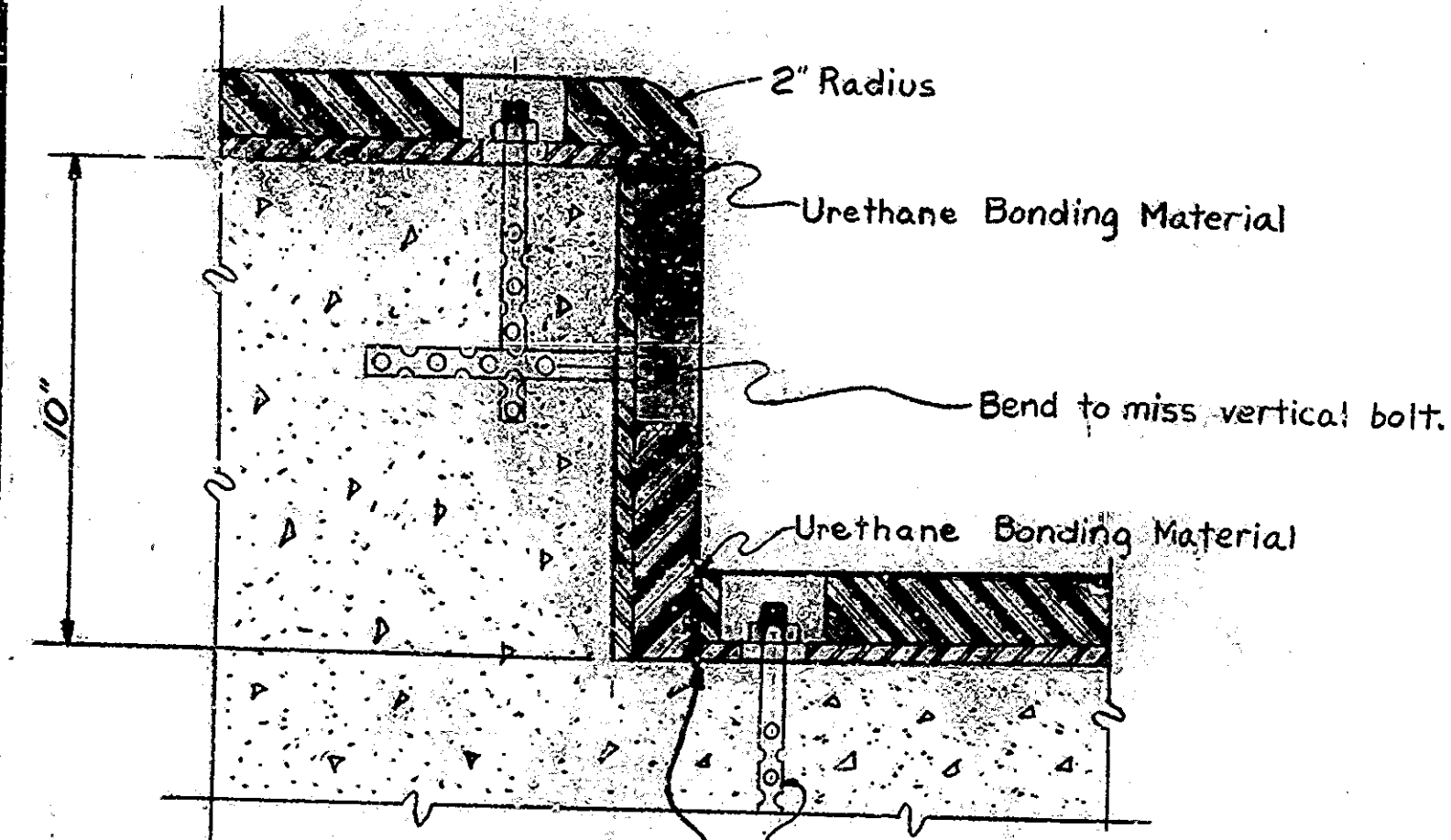
EXPANSION JOINT PLAN
Scale: 1/4" = 1'-0"



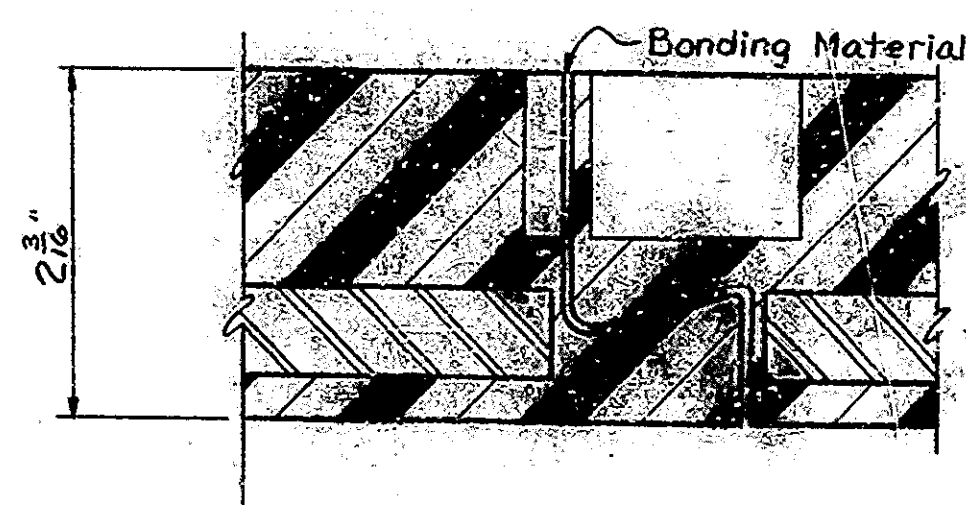
EXPANSION JOINT DETAIL
Scale: 3" = 1'-0"

NOTES:
Material:
Rubber - 70 Durometer Neoprene
Steel - ASTM-A36 H.R.S.
Swedge bolts may be preset or holes bored and bolts grouted.
Cost of swedge bolts, and non shrinking grout to be included in cost per linear foot of "Rubber Expansion Joint."

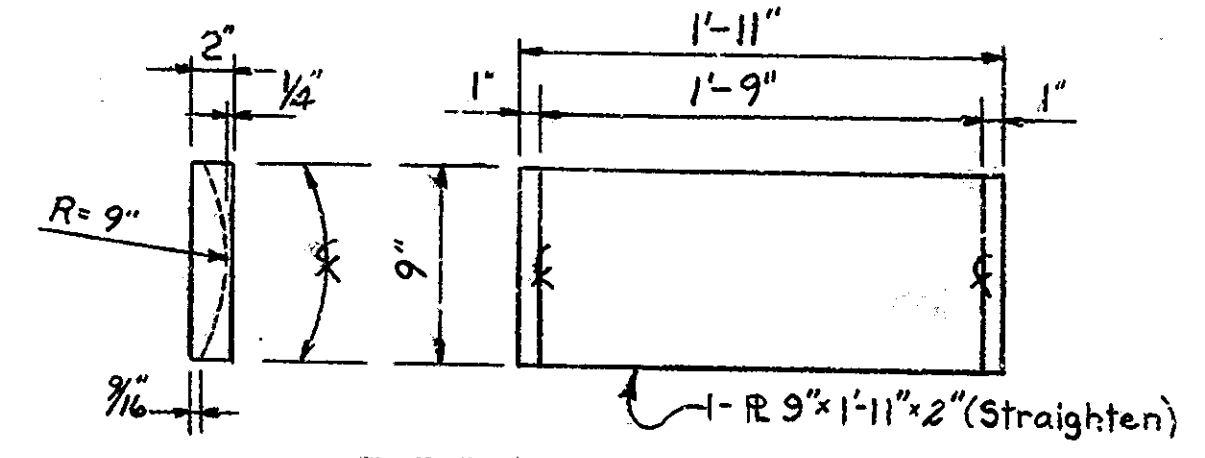
* Non Shrinking Grout
1 Part Portland Cement
2 Parts #14 Sand
1 Part Embecco or approved equal



TYPICAL CURB SECTION
No Scale

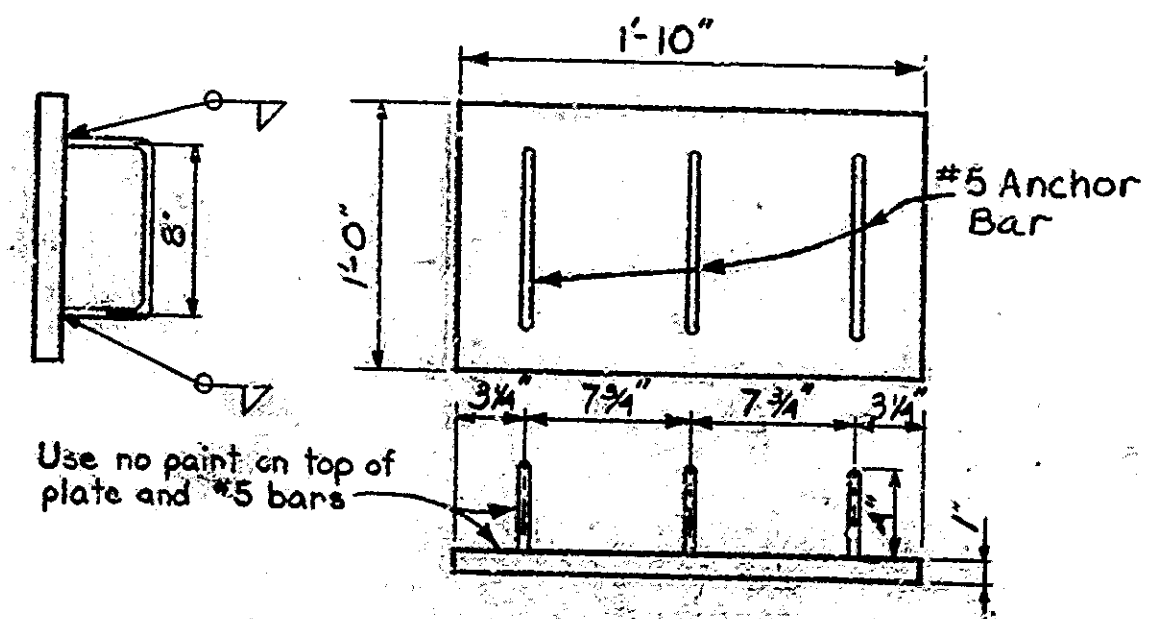


SECTION Y-Y
No Scale

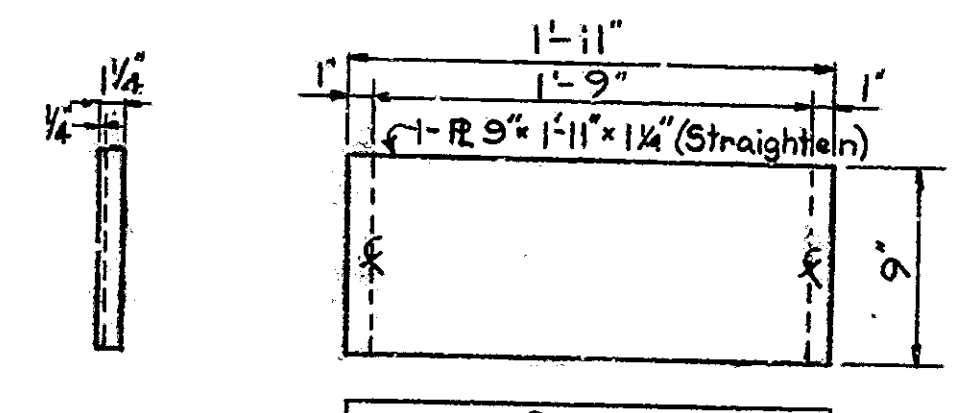


BED PLATE
Scale: 1/2" = 1'-0"

REQUIRED		
16	Sole Plates	SP
16	Expansion Plates	EP
16	Bed Plates	BP
16	I-Beam Plates	I-BP
16	Anchor Plates	AP-4



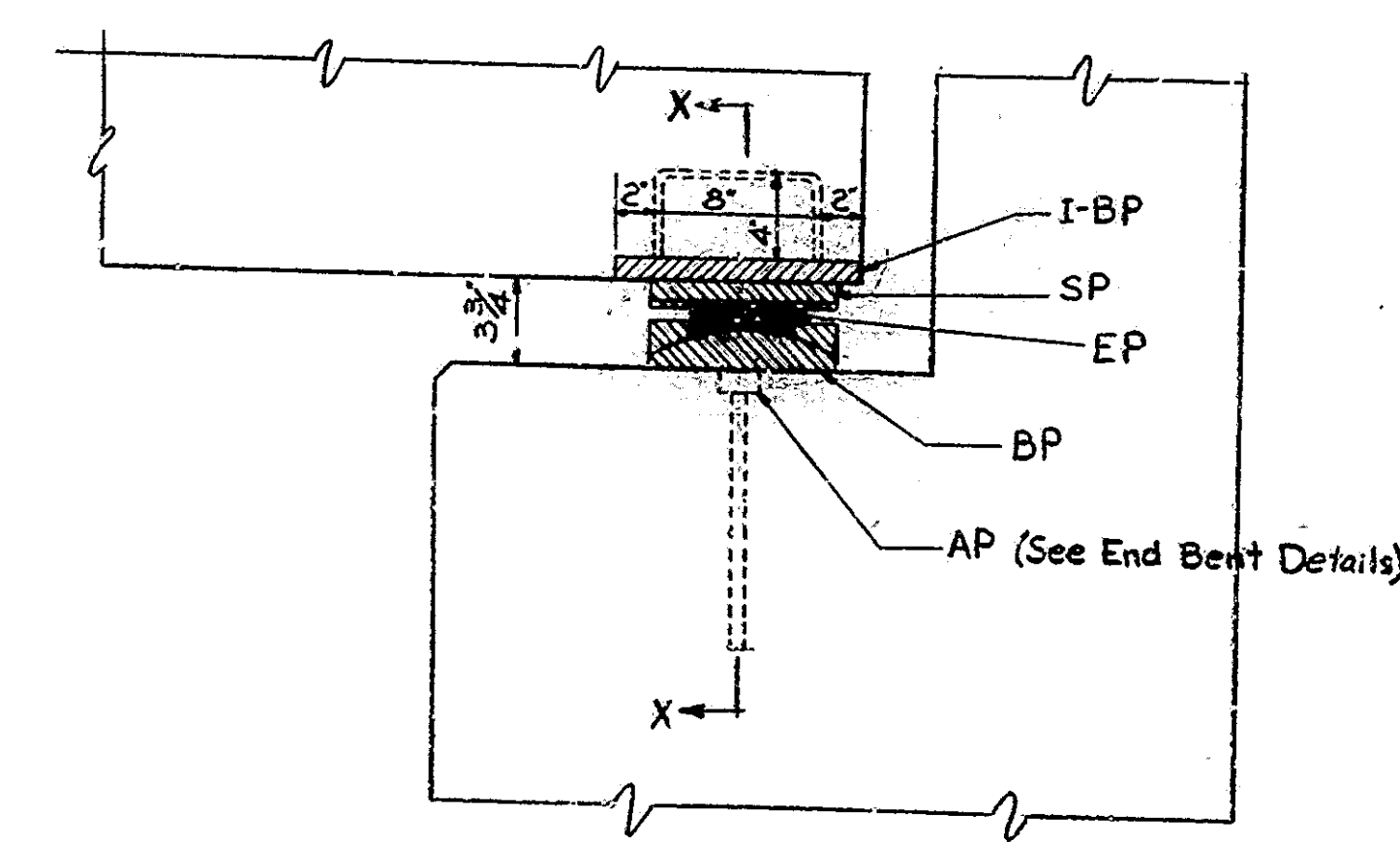
I-BEAM PLATE (Included in cost of beams)
Scale: 1/2" = 1'-0"



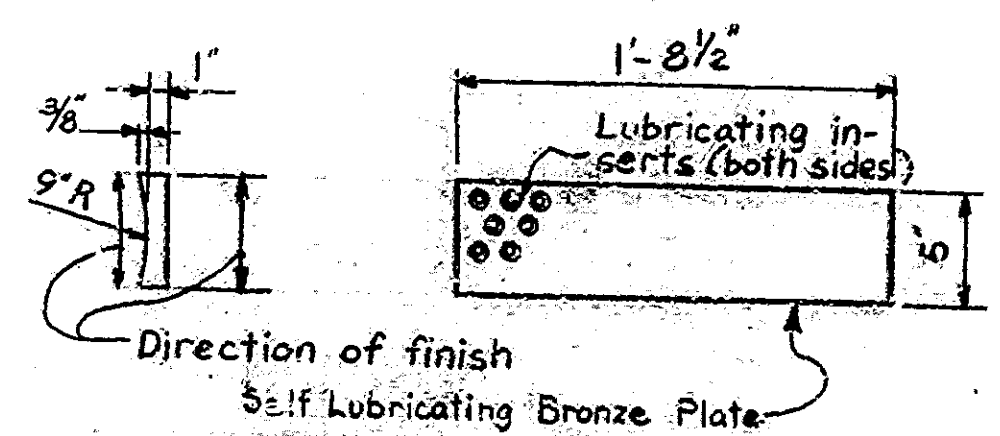
SOLE PLATE
Scale: 1/2" = 1'-0"

STRUCTURAL STEEL				
NO. PCS.	SECTION	LENGTH	LOCATION	WEIGHT
16	R 9" x 1 1/4"	1'-11"	SP (STRAIGHTEN)	1,174 *
16	R 9" x 2"	1'-11"	BP (STRAIGHTEN)	1,878 *
Total =				3,052 *

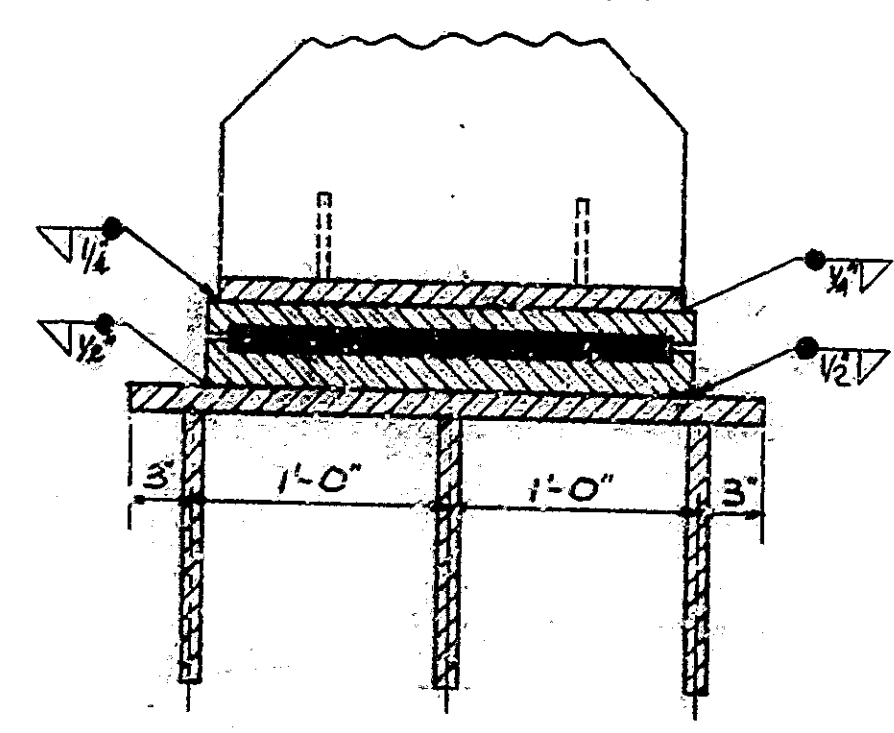
Bronze Bearing Plates - 590*



EXPANSION ASSY. SECTION
Scale: 1/2" = 1'-0"



BRONZE EXP. PLATE
Scale: 1/2" = 1'-0"

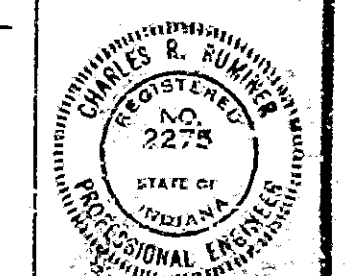


SECTION X-X
Scale: 1/2" = 1'-0"

NOTE: Beams to be set from expansion assembly at Bents 1 & 6 and holding dimensions at that point. Variation in beam lengths to be adjusted in openings at adjacent piers.

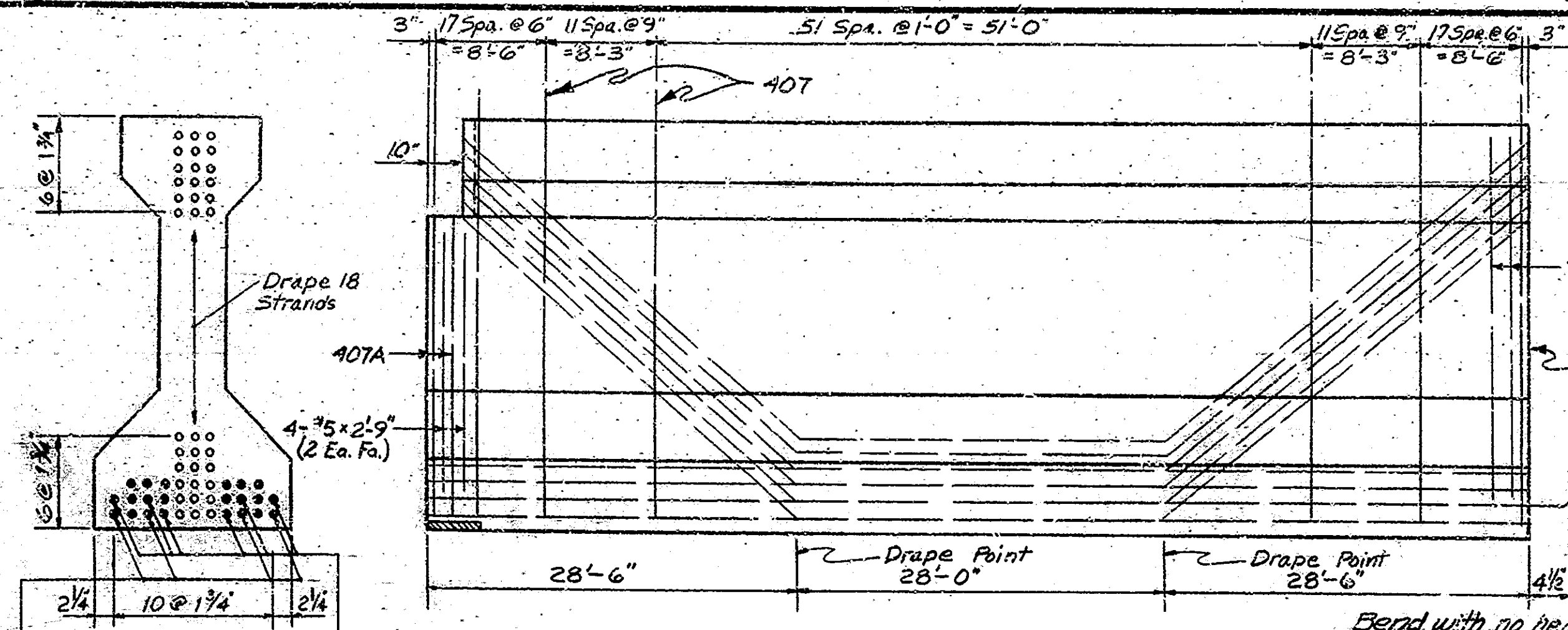
SUPERSTRUCTURE DETAILS
INDIANA STATE HIGHWAY COMMISSION
SCALE: AS NOTED
RECOMMENDED FOR APPROVAL: *C.R. Rimmer*
MARCH 21, 1969
DRAWING: C₈ OF 10
PROJECT: S-520(6)
BRIDGE CONTRACT NO. B-8127
BRIDGE FILE: IOI-02-3702

DESIGNED: DCC
DRAWN: LDB
TRACED: DCC



NOTE: Minimum finish on plates to be 125 Micro-inch rms.

BRIDGES OVER 20' SPAN				
PUB. ROAD REG. NO.	STATE	PROJECT NO.	FISCAL YEAR	TOTAL SHEETS
4	IND.	5-586(6)	1969	56

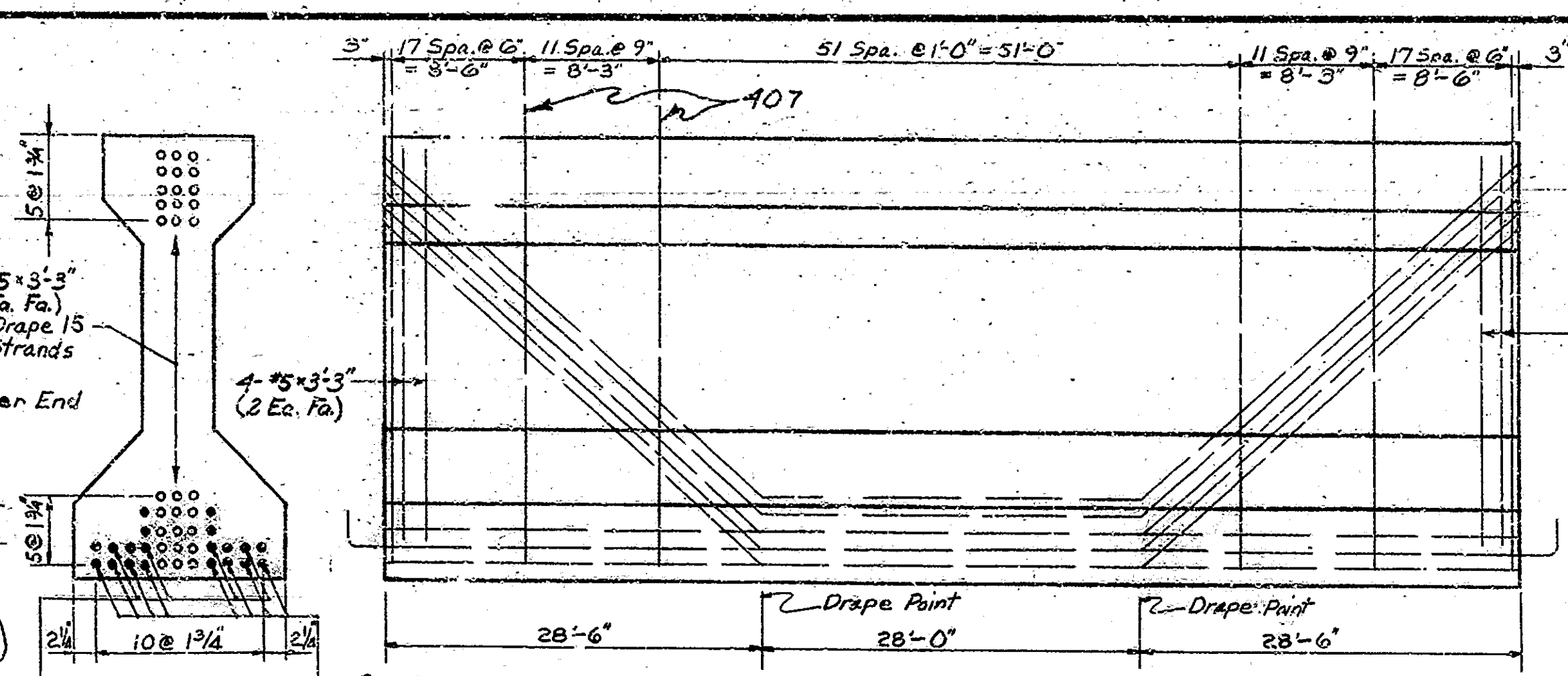


SPANS A & E
Scale: 1"=1'-0"
Note: 40-7/16" #270K Strands
F_c = 4800 Psi.

Break Bond on 4 Strands in Row 1 @ 17'-0" from end of Beam

Break Bond on 2 Strands in Row 1, 4 Strands in Row 2 @ 8'-0" from end of Beam
Extend other 4 Strands in Row 2 with a 15" Projection @ Pier End of Beam only.

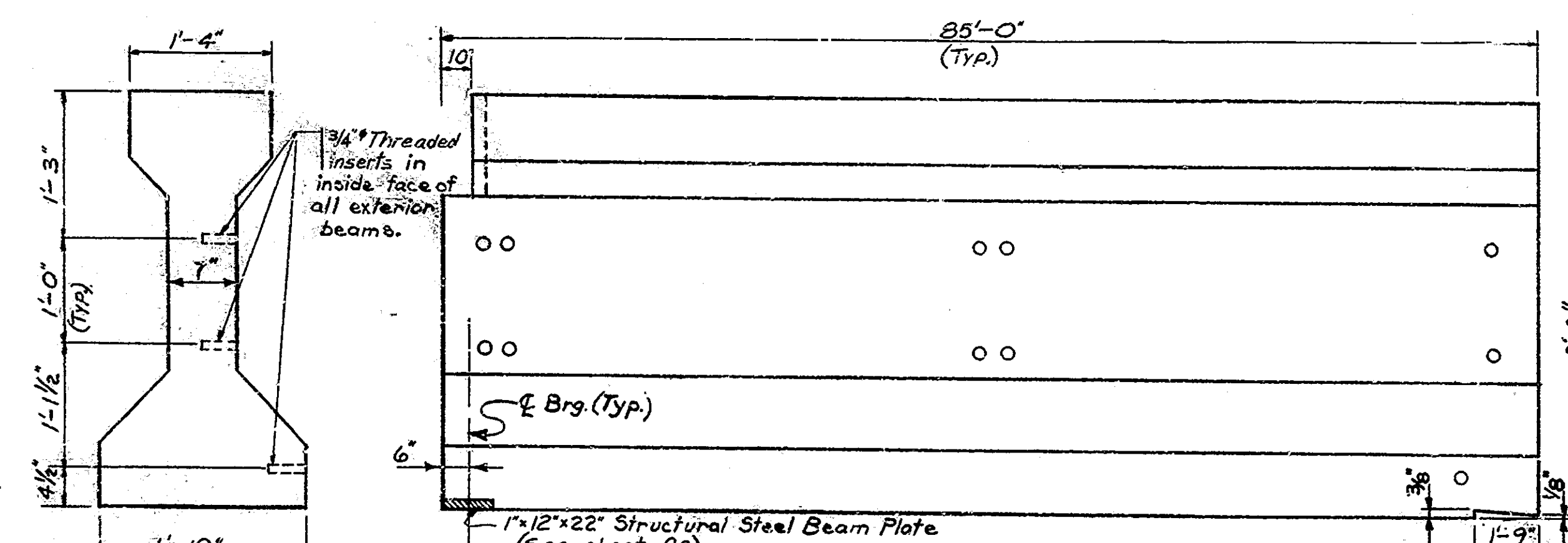
BEAM ELEVATION (Spans A)
No Scale
Span E (Opposite Hand)
Extend these 4 Strands with a 15" projection @ one end of beam in row 2, remaining 4 Strands to be projected 15" @ other end of the Beam.



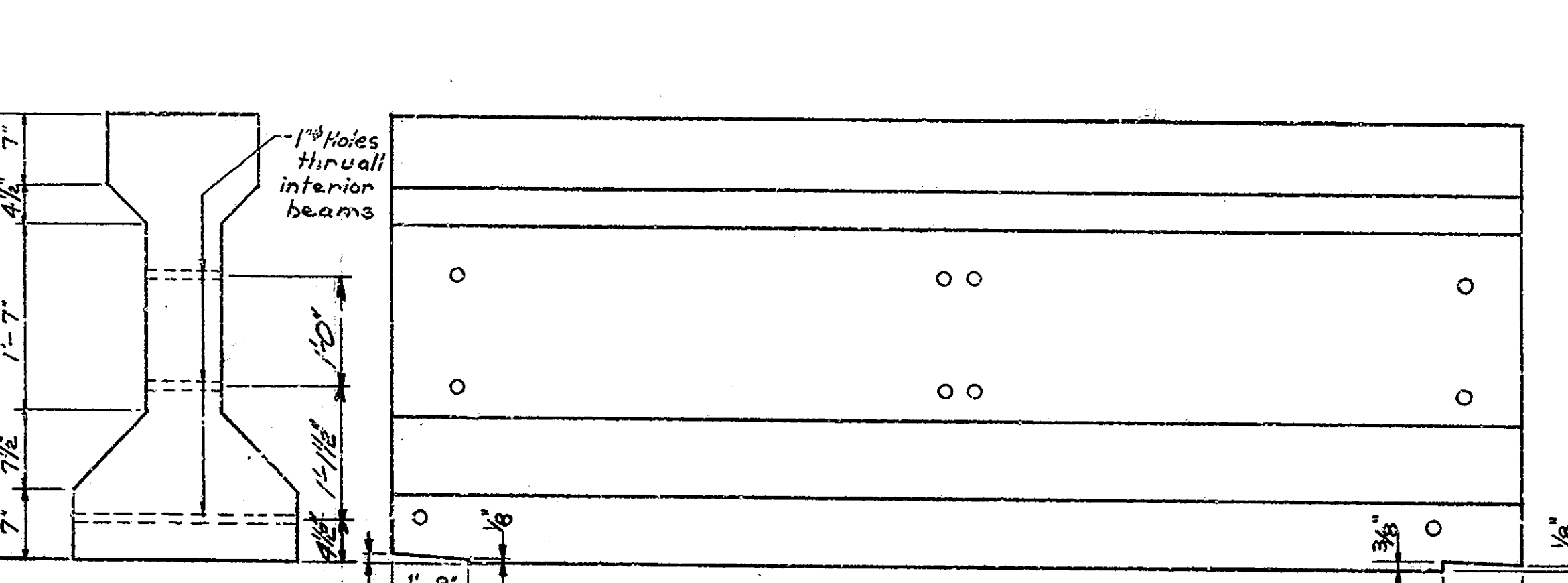
SPANS B,C & D
Scale: 1"=1'-0"
Note: 35-7/16" #270K Strands
F_c = 4800 Psi.

Break Bond on 8 Strands in Row 1 @ 8'-6" from end of Beam

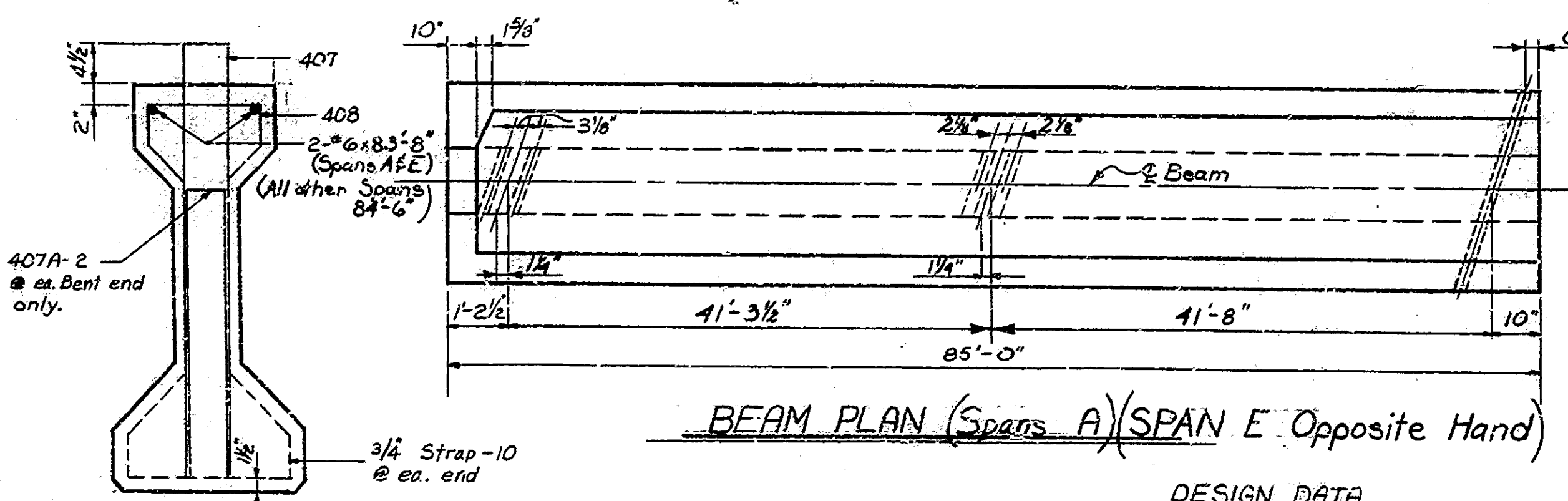
BEAM ELEVATION (Spans B,C & D)
No Scale



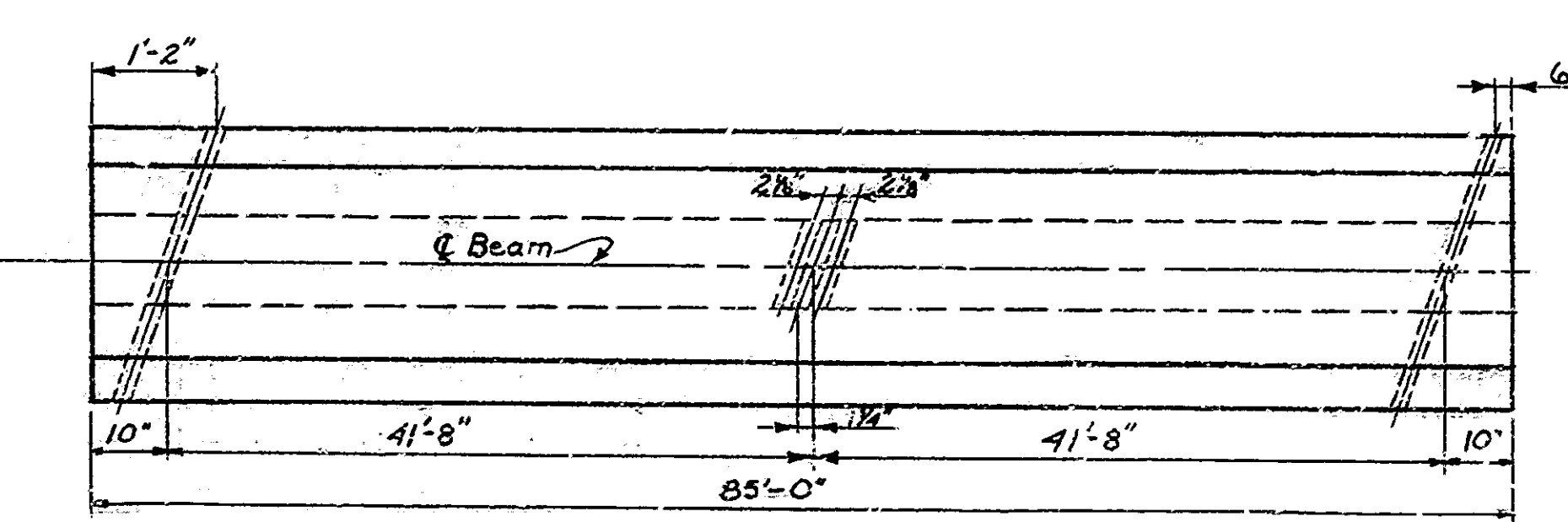
BEAM ELEVATION (Spans A) (Span E Opposite Hand)



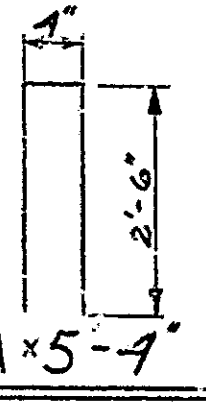
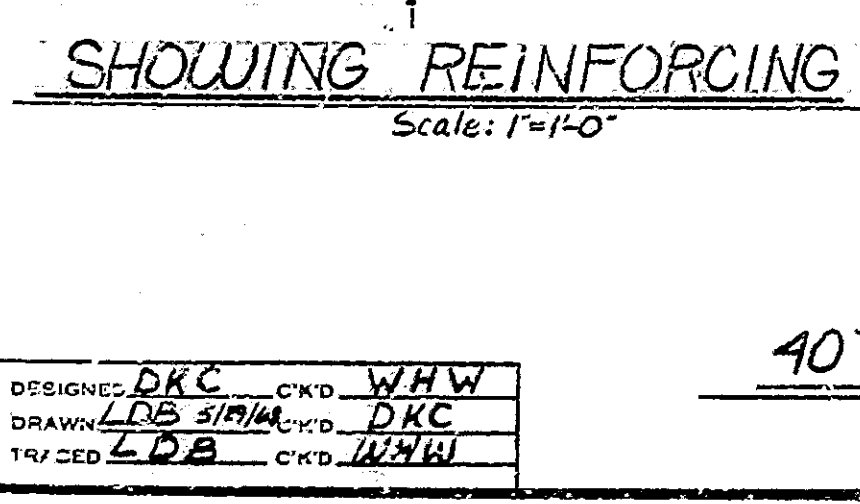
BEAM ELEVATION (Spans B,C & D)



BEAM PLAN (Spans A) (SPAN E Opposite Hand)



BEAM PLAN (Spans B,C & D)



DESIGN DATA

Prestressed Beams:
All beams shall be Type III as shown on Br. std. PB3
F_c = 4800 Psi.

Spans A & E
(Computed beam camber as erected = +1.5956"
Dead load deflection of beam caused by slab & diaphragm = -1.2247"
Residual beam camber with slab in place = +0.3709")

Spans B,C & D
(Computed beam camber as erected = +1.3518"
Dead load deflection of beam caused by slab & diaphragm = -1.2471"
Residual beam camber with slab in place = +0.1047")

GENERAL NOTES

Screed data to be furnished upon request.

The cost of Elastomeric Bearing Pads, 3/4" x 2'-3" Threaded Rods, 3/4" Threaded inserts in outside Beams, 3" x 1/2" Preformed Joint Filler, Structural Steel I-Beam Plates and Prestressed Concrete I-Beams to be included in the Lump Sum bid for Structural Members.

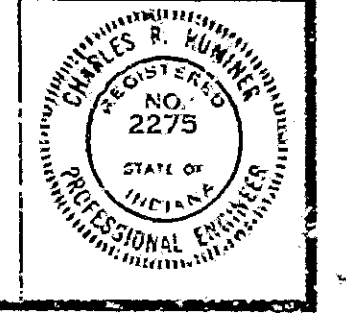
Outside face of outside beams to be given initial rub in shop by fabricator & final rub in field by Contractor in accordance with Art. E-103.3b, except rubbing to be done within 18 hours after concrete is poured.

Bridge seat elev. were set using design camber & dead load deflection of slab so that top of beam will be at bottom of slab elev. at E. of span & beam filler depth to vary along length of beam to compensate for camber. Actual cambers which are greater than design cambers will be taken care of by permitting the top of beam to extend into slab. Actual cambers less than design cambers will require slightly higher fillers.

Notes: See Br. std. C1 for Reinforcing Bar Notes
See Br. std. PB3 for General Notes & Design Notes for Type III - I Beams
See Br. std. PB10 for Tolerance of Prestressed Beams
See Br. std. PB11 for Type III Bearing Pads.

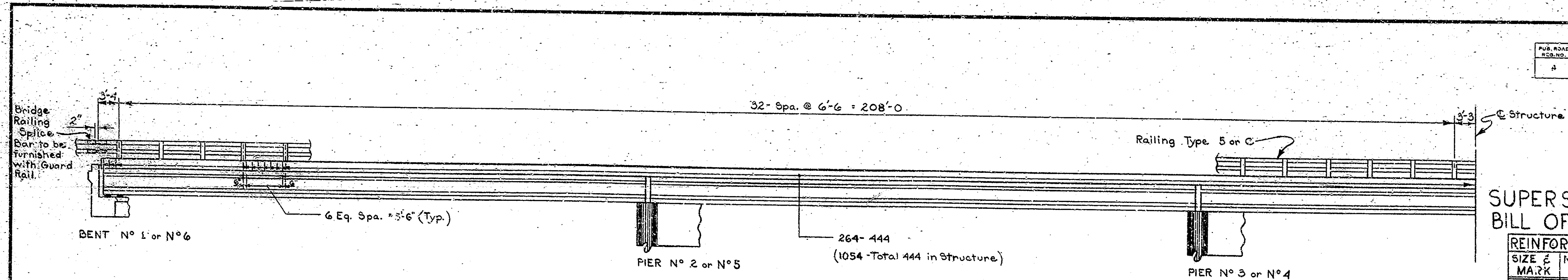
INDIANA STATE HIGHWAY COMMISSION

SCALE: AS NOTED
RECOMMENDED FOR APPROVAL: *C.R. Rimmer*
DATE: MARCH 21, 1969
DRAWING: C9 OF 10
PROJECT: 5-586 (6)
BRIDGE CONTRACT NO. B-8127
BRIDGE FILE: 10102-5782

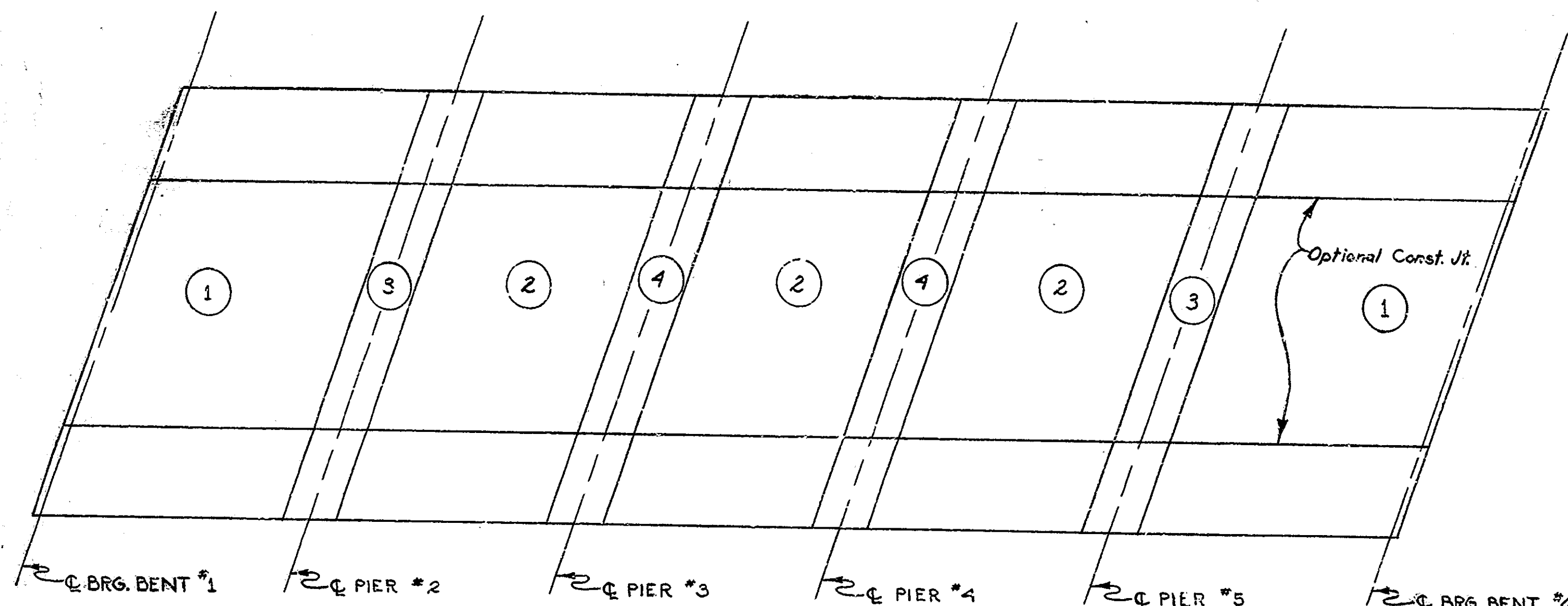


DESIGNED: DKC	CHKD: WWH
DRAWN: LDB	CHKD: DKC
TRV. CD: LDB	CHKD: WWH

BRIDGES OVER 20' SPAN					
PUB. ROAD REC. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	S-5862	1969	17	56

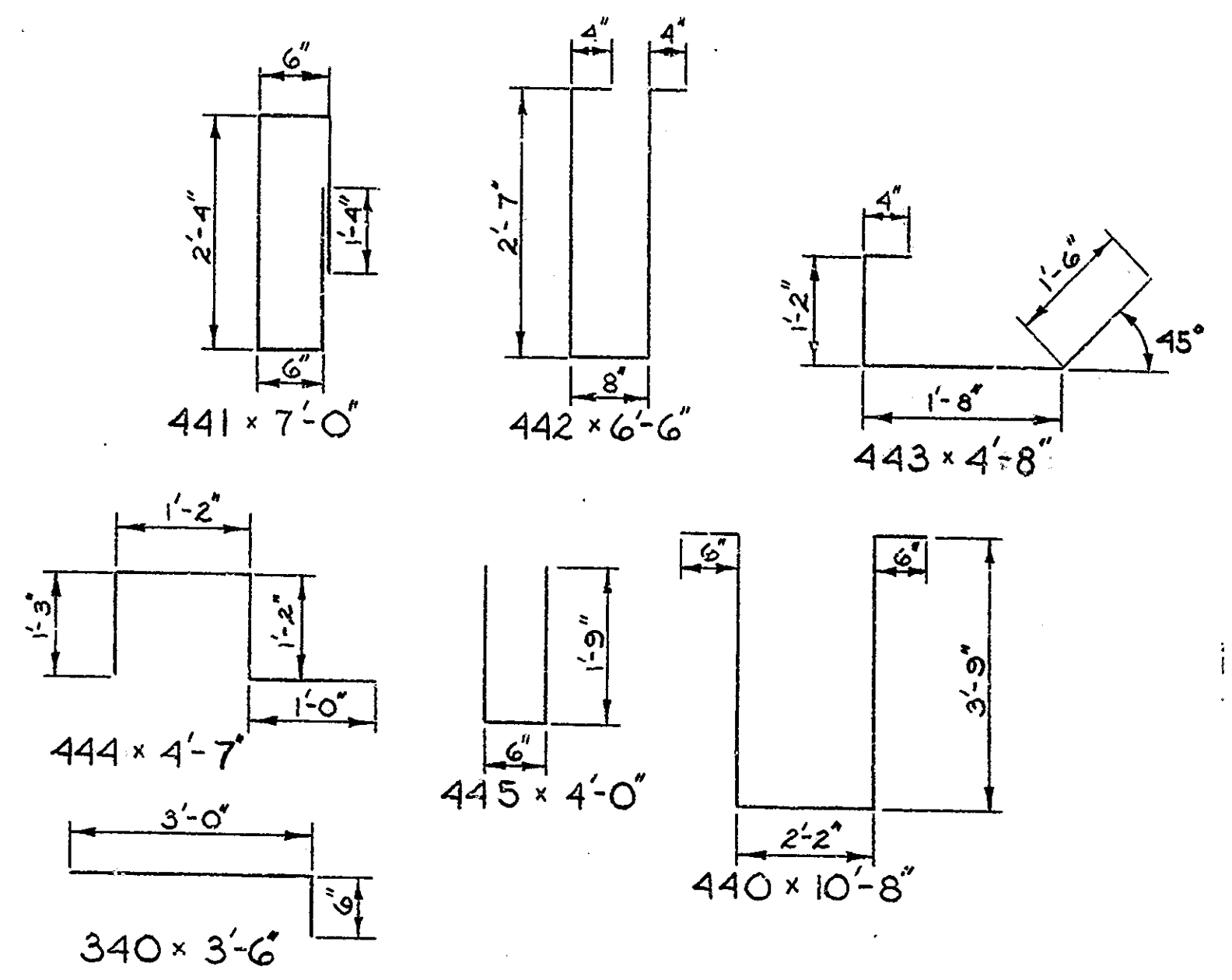


HALF ELEVATION
Scale 1/8" = 1'-0"



POUR DIAGRAM
No Scale

NOTE: See the Special Provisions for superstructure concrete pours and joint option.
NOTE: Numbers indicate sequence of pours.
All Diaphragms are to be poured before slab is formed, except diaphragms over piers which are to be poured with the slab.

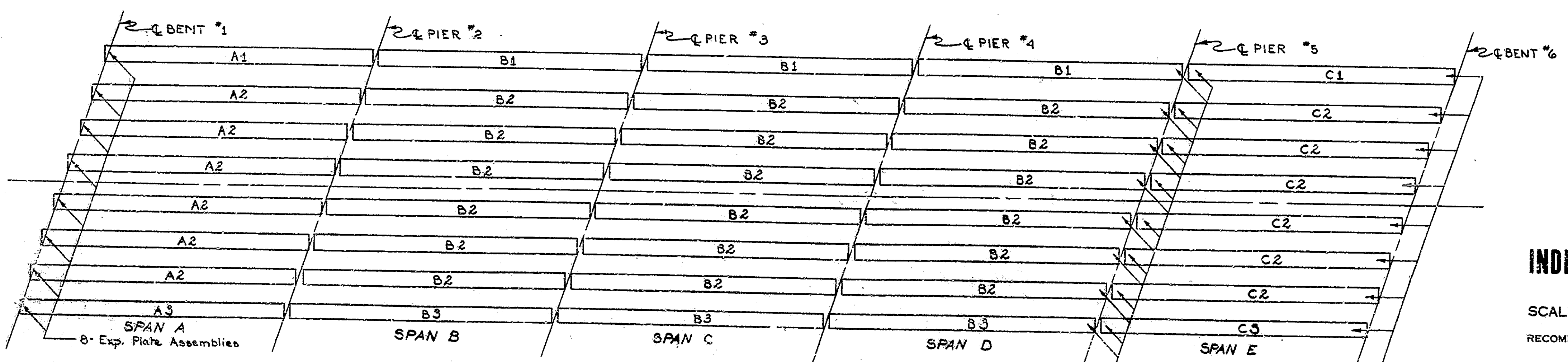


NOTE: See Br. Std. C1 for Reinforcing Bar Notes.

SUPERSTRUCTURE BILL OF MATERIALS

REINFORCING STEEL			
SIZE & MARK	N° OF BARS	LENGTH	WEIGHT
#9	376	24'-0"	
#9	32	1'-9"	
Total #9	#9		30,872#
#5	210	60'-0"	
#5	90	10'-0"	
#5	20	38'-9"	
#5	40	35'-6"	
#5	856	27'-9"	
#5	1724	24'-6"	
#5	856	21'-3"	
#5	1004	4'-6"	
Total #5	#5		112,491#
440	140	10'-8"	
441	175	7'-0"	
442	70	6'-6"	
443	70	4'-8"	
444	1057	4'-7"	
445	50	4'-0"	
#4	20	4'-0"	
Total #4	#4		5,752#
340	168	3'-6"	
#3	84	42'-6"	
Total #3	#3		13,723#
TOTAL STEEL 162,788#			
CONCRETE			
Class #1	2@ 89.3	178.6 Cys	
Pour N° 1	3@ 75.8	220.8 Cys	
Pour N° 2	2@ 37.3	74.6 Cys	
Pour N° 3	2@ 37.3	74.6 Cys	
Pour N° 4	2@ 37.3	74.6 Cys	
Diaphragms @ Bents		4.7 Cys	
Interior Diaphragms		13.9 Cys	
TOTAL Class #1 CONCRETE 567.4 Cys			
MISCELLANEOUS			
Railing Type 5 or C			8583 Lin. Ft.
20' Roadway Drains			
Type SQA @ 18" Each			3840#
20' Dia. 6" x 3' 6" Spill Pipe (Extra Heavy)			
@ 18" x 5" Hub			1360#
Total Weight C.I.			5200#

40'-85'-0" Type III - I Beams = 3400 Lin. Ft.

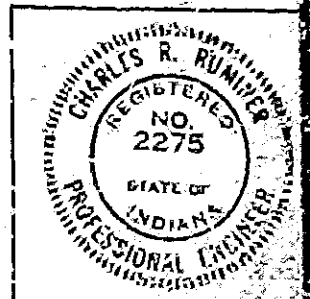


ERECTION PLAN
No Scale

DESIGNED: DKC CKD WHW
DRAWN: LDB CKD DKC
TRACED: DKB CKD WHW

SUPERSTRUCTURE DETAILS
INDIANA STATE HIGHWAY COMMISSION

SCALE: AS NOTED
RECOMMENDED FOR APPROVAL: *C.R. Rimmer*
DRAWING: C/D OF 10
PROJECT: S-586-(6)
BRIDGE CONTRACT NO. B-8127
BRIDGE FILE: 101-02-5782
DATE: MARCH 21, 1969



ITEM	CONCRETE										REIN. STEEL TOTAL LBS.	STRUCT. STEEL *** LBS.	BRONZE BEARING PLATES LBS.	ANCHOR PLATES MK-AP-4 EACH	ANCHOR RODS MK-R EACH	UNTREATED TIMBER LIN. FT.	TREATED TIMBER LIN. FT.	STEEL ENCASED CONC. NO. LIN. FT.	STEEL H. BEARINGS NO. LIN. FT.	CAST IRON LBS.	RAILING TYPE S OR C LIN. FT.	ARMOR (TYPE) LIN. FT.	EXP. ARMOR (TYPE) LIN. FT.	RUBBER EXP. FT.	Grade 'B' Spec. Borrow For Str. Backfill CU. YDS.
	CLASS F	CLASS D	CLASS E ABOVE FT.	CLASS E IN FT.	CONCRETE CLASS F																				
	CU. YDS.	CU. YDS.	CU. YDS.	CU. YDS.	CU. YDS./LIN. FT.																				
BENT NO 1	40.0					4,101					8													40	
PIER NO 2	34.3		52.1	44.0		14,670																			
PIER NO 3	34.3		61.1	44.0		15,289																			
PIER NO 4	34.3		64.0	44.0		15,539																			
PIER NO 5	34.3		60.0	44.0		15,314																			
BENT NO 6	40.0					4,101					8													40	
SUPERSTRUCTURE	3674					162,788	3,052	590																	
SPICE BARS						4,822																			
TOTALS						1846	237.2	176.0		236,624	3,052	590	16			16,480	5,200	858.3		100.3			80		

BRIDGES OVER 20' SPAN.				
PUB. ROAD REG. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.
4	IND.	5-386(6)	62	18
				TOTAL SHEETS
				56

DESCRIPTION	UNIT	QUANTITIES	
		BRIDGE FILE	TOTALS
1 Class F Concrete	Cu. Yds.	1846	
2 Class D Concrete	Cu. Yds.		237.2
3 Class E Concrete above Footings	Cu. Yds.		176.0
4 Class E Concrete in Footings	Cu. Yds.		176.0
5 Railing Concrete	Cu. Yds.		
6 Reinforcing Steel	Lbs.		236,624
7 Structural Steel	Lump Sum		1
8 Anchor Plates (MK-AP-4)	Each		16
9 Cast Iron	Lbs.		5200
10 Railing (Type S or C)	Lin. Ft.		858.3
11 Untreated Timber Piles Furnished	Lin. Ft.		
12 Untreated Timber Piles Driven	Lin. Ft.		
13 Treated Timber Piles Furnished	Lin. Ft.		
14 Treated Timber Piles Driven	Lin. Ft.		
15 Steel Pile Shells Furnished ()	Lin. Ft.		
16 Steel Pile Shells Driven ()	Lin. Ft.		
17 Steel H. Piles Furnished Driven ()	Lin. Ft.		450
18 Steel H. Piles Driven	Lin. Ft.		
19 Furnishing Equipment for Driving Piles	Lump Sum		1
20 Wet Excavation	Cu. Yds.		800
21 Foundation Excavation Unclassified	Cu. Yds.		
22 Waterway Excavation	Cu. Yds.		16,085
23 Common Excavation	Cu. Yds.		12,303
24 Special Borrow	Cu. Yds.		50
25 Grade B Special Borrow For Str. Backfill	Cu. Yds.		80
26 Sodding	Sq. Yds.		895
27 Matted Seeding	Sq. Yds.		
28 Reinforced Cement Concrete Pavement (9)	Sq. Yds.		269
29 Compacted Aggregate Base (Type P-7)	Tons		3,125
30 Compacted Aggregate Shoulder	Tons		
31 Subbase	Cu. Yds.		1,205
32 Removal Present Structure	Lump Sum		1
33 Temporary Bridge and Approaches	Lump Sum		
34 Typical Sign Standards	Each		
35 Standard Barricades (Type A)	Each		2
36 Standard Barricades (Type B)	Each		
37 Standard Signs	Each		
38 R/W Markers	Each		18
39 Stopwall	Sq. Yds.		
40 Riprap	Sq. Yds.		
41 1/2" Expansion Joint Armor (Type)	Lin. Ft.		
42 1/4" Expansion Joint Armor (Type)	Lin. Ft.		
43 3/8" Expansion Joint (Type)	Lin. Ft.		
44 1/2" Expansion Joint (Type)	Lin. Ft.		
45 1/4" Expansion Joint (Type)	Lin. Ft.		
46 36x22" Pipe Arch (16 Ga. C.S.)	Lin. Ft.		30
47 36x22" Pipe Culvert End Section	Each		2
48 Structural Members	Lump Sum		1
49 Rubber Expansion Joint	Lin. Ft.		100.3
50 Bronze Bearing Plates	Lbs.		590
51 Revestment Riprap	Tons		2,217
52 Guard Rail Type G-4 or G-5	Lin. Ft.		488
53 Construction Signs Type A	Each		2
54 Special Integral Curb	Lin. Ft.		109
55 Paved Side Ditch Type A	Lin. Ft.		160
56 Paved Side Ditch Type B	Lin. Ft.		280
57 Furnishing & Applying Seed	Lbs.		545
58 Furnishing & Applying Mutching Material	Tons		2.9
59 Furnishing & Applying Agricultural Limestone	Tons		10.0
60 Furnishing & Applying Fertilizer	Tons		1.0
61 Bituminous Surface	Tons		122
62 Bituminous Surface	Tons		433
63 Bituminous Material Applied Prime	Tons		4.2
64 Bituminous Material Applied Back Coat	Tons		0.2
65 Bituminous Material Applied Seal	Tons		11.0
66 Covering Aggregate	Tons		84
67 Manure Type B	Each		3
68 6" Perf. F.B.C.S. Pipe (16 Ga.)	Lin. Ft.		160
69 30" Group D Pipe (16 Ga. C.S.)	Lin. Ft.		46
70 30" Pipe Culvert End Section	Each		2
71 24" Group L Pipe	Lin. Ft.		50
72 24" Group L Pipe	Lin. Ft.		296
73 6" Drain Tile	Lin. Ft.		368
74 Catch Basin Type E-7	Each		2
75 Manhole Type B-4	Each		1
76			
77 24" Pipe Culvert End Section	Each		1

STRUCT. NO.	LOCATION	SIZE	DESCRIPTION	KIND	LENGTH LIN. FT.	CL. CONC.		REINF. STEEL LBS.	CAST IRON LBS.	REMARKS
						CU. YDS.	CU. YDS.			
1	STA. 1258+70.5	6"	Perf. F.B.C.S. Pipe (16 Ga.)		86					To Drain Grade 'B' Special Borrow
2	STA. 1263+03.5	6"	Perf. F.B.C.S. Pipe (16 Ga.)		74					(Includes 2' for 22' 30" Bend) To Drain Grade 'B' Special Borrow
3	STA. 1263+65	38 Rt. 30"	Group D Pipe (16 Ga. C.S.)		46					Under Private Drive
4	STA. 1264+00	31 Lt. 24"	Pipe Culvert End Section	2 Reqd.	50					Connect to Str. No 5
5	STA. 1266+00	24"	Group L Pipe (16 Ga. C.S.)	1 Reqd.	198					Connect to Str. No 6
6	STA. 1266+85	17 Lt. 24"	Catch Basin Type E-7	1 Reqd.	38					Connect to Existing 18" Field Tile
7	STA. 1266+35	18 Rt. 6"	Group L Pipe (16 Ga. C.S.)	1 Reqd.	368					Connect to Existing 6" Field Tile (Includes 4' for 2-30" Elbows.)
8	STA. 1267+55	28 Rt. 36x22"	Pipe Arch (16 Ga. C.S.)	2 Reqd.	30					Under Field Entrance
TOTALS										Total of Reinforcing Steel carried to "Structure Quantities"

ITEM	UNIT	QUANTITY	ASSEMBLY	BRIDGE FILE		TOTALS
				NO.	WEIGHT	
CONSTR. SIGNS TYPE A	Each	8	Signs XW-1			
			Signs XW-2			
			Signs XW-3	4		
			Signs XM-2			
			Signs W-48 W-35A 20 MPH			
STANDARD BARRICADES (TYPE A)	Each	2	Signs XW-14	4		
			Torches	8		
			Barricades (Type A)	2		
			Signs XR-1	2		
			Signs M-20A	2		
STANDARD BARRICADES (TYPE B)	Each	2	Signs XR-4	2		
			Lanterns	4		
			Barricades (Type B)	2		
			Signs XR-1	2		
			Lanterns	4		
SUITABLE BARRIERS	Each	2	Signs W-11	2		
			Signs W-35A	2		
			Torches	4		
			Suitable Barriers	2		
			Lanterns or Torches	4		
CONSTRUCTION IDENTIFICATION SIGNS	Each	2	Signs XM-6	2		
			Signs XM-7	2		
			Signs XM-8	2		
			Signs XM-9	2		
			Signs XM-10	2		

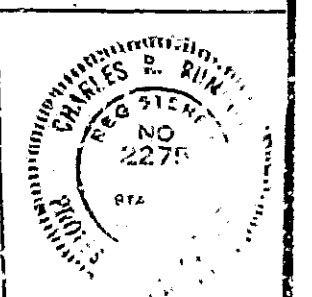
BILL OF SPICE BARS							
SIZE	LENGTH LIN. FT.	WEIGHT EACH	REINFORCING STEEL BRIDGE FILE				TOTAL WEIGHT LBS.
			NO. PIECES	WEIGHT LBS.	NO. PIECES	WEIGHT LBS.	
#11	11'-0"	58.4					
#10	10'-8"	45.2					
#9	9'-8"	32.3					
#8	8'-9"	23.4					
#7	8'-0"	18.4					
#6	7'-8"	11.3					
#5	6'-8"	7.0					
#4	6'-0"	4.0					
#3	5'-8"	2.1					
TOTAL SPICE BARS							

NOTE: For Test Bar Samples see Bridge Standard C1.

SUMMARY
INDIANA STATE HIGHWAY COMMISSION

MARCH 21, 1969

RECOMMENDED OR APPROVAL:
DRAWING OF PROJECT: 5-386(6)
BRIDGE CONTRACT NO. B-6127
BRIDGE FILE: 101-02-5782



DRAWN BY: J.L.C. JULY 27, 1965
SUMMARIZED: DKC
CHECKED: JST
TRACED: ELM

* Not A Pay Item. Place as directed by the Engineer. "W-35A" safe speed to be determined by the Engineer. When sign standards are used in unpaved areas the contractor may use two posts set (3) three feet in the ground. Directional, advisory or warning signs shall be right hand or left hand as the location of the sign requires.

Weight of spirals includes weight of 1/2 extra turns top and bottom. Spacers and 1/2 turns at laps included in cost of spiral. ***The weight of structural steel is approximate only, and it shall be the contractors responsibility to determine the weight on which he bases his bid.