

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	82-3HVB-2-P	ST. CLAIR	18	1
* FAI TO / FAP 312		ILLINOIS	CONTRACT NO. 76G15	

INDEX OF SHEETS

1. COVER SHEET
2. GENERAL NOTES, COMMITMENTS, AND HIGHWAY STANDARDS
3. SUMMARY OF QUANTITIES
4. BRIDGE PAINTING DETAILS SN 082-0201
- 5.-18. SN 082-0201 EXISTING STRUCTURE DETAILS (FOR INFORMATION ONLY)

TRAFFIC DATA

SN 082-0201

2016 ADT	3,800
2036 ADT	4,650
% SU	3.5
% MU	13.2

**PROPOSED
HIGHWAY PLANS**

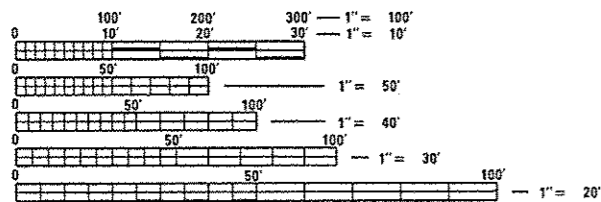
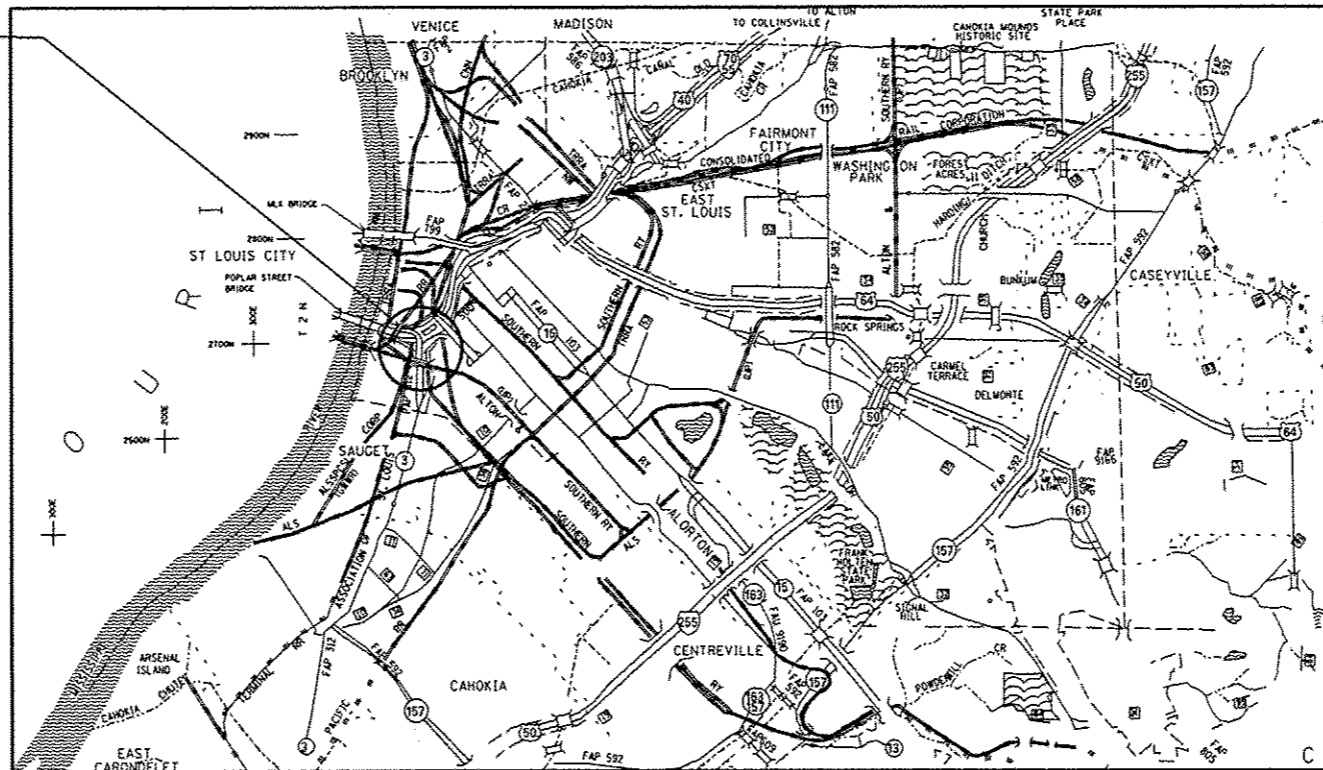
FAI 70 / FAP 312 (I-55/64 / IL 3)
SECTION 82-3HVB-2-P
BRIDGE PAINTING
ST. CLAIR COUNTY

C-98-016-13



PROJECT LOCATION

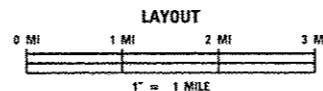
SN 082-0201
ON RAMP D FROM
WB I-55/64 CD
TO IL 3 SB
STA. 7+00.52
LAT.: 38.61771
LONG.: -90.16821



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

GROSS LENGTH = 999.5 FT. = 0.189 MILE
NET LENGTH = 999.5 FT. = 0.189 MILE



PROJECT ENGINEER: HERVE GELIN (618) 346-3179
PROJECT MANAGER: CECIL DOWNING (618) 346-3186

CONTRACT NO. 76G15

DESIGN DESIGNATION

NA

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED Feb 3 20 17

Jeffrey T. K...
REGIONAL ENGINEER

Mar 24 20 17

Maureen M. Addis P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

Mar 24 20 17

[Signature]
DIRECTOR OF PROGRAM DEVELOPMENT

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

GENERAL NOTES

1. ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO UTILITIES WITHIN THE PROJECT AREA BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

- AMEREN ILLINOIS (GAS & ELECTRIC)
- AT&T ILLINOIS (COMMUNICATIONS)
- CHARTER COMMUNICATIONS, INC. (CTV)
- CITY OF EAST ST. LOUIS (LIGHTING)
- ILLINOIS AMERICAN WATER COMPANY (WATER)
- LACLEDE PIPELINE COMPANY (PIPELINE)
- VERIZON BUSINESS (COMMUNICATIONS)
- ZAYO GROUP LLC (COMMUNICATIONS)

MEMBERS OF J.U.L.I.E CALL TOLL FREE (800) 892-0123 OR 811 AND ARE INDICATED BY *. NON-J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.

2. THE SSPC-QP1 AND SSPC-QP2 CERTIFICATIONS WILL BE REQUIRED FOR THE BRIDGE.
3. ALL TURF AREA DISTURBED BY THE CONTRACTOR SHALL BE SEEDED WITH THE APPROPRIATE EROSION CONTROL AS DIRECTED BY THE RESIDENT ENGINEER/TECHNICIAN AT THE CONTRACTOR'S EXPENSE.
4. THE USE OF CONES SHALL NOT BE PERMITTED AT THIS LOCATION.
5. ALL CONSTRUCTION SIGNS SHALL BE 48" X 48" FLUORESCENT ORANGE. ALL TRAFFIC CONTROL DEVICES AS HEREIN SPECIFIED AND ANY ADDITIONAL TRAFFIC CONTROL DEVICES AS DEEMED NECESSARY BY THE RESIDENT ENGINEER SHALL BE INCLUDED IN THE CONTRACT TRAFFIC CONTROL AND PROTECTION PAY ITEMS.
6. THE DEPARTMENT STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB-CONTRACTORS TO HIRE MINORITY, WOMEN AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION-RELATED SKILLS, E.G., MATH FOR THE TRADES, JOB READINESS, TECHNICAL SKILLS COURSE WORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE, ETC.) AND OSHA 10 HOUR CERTIFICATION, TO PREPARE THEM FOR A CAREER IN THE HIGHWAY CONSTRUCTION TRADES. GRADUATES ARE WELL-TRAINED AND READY TO BECOME PRODUCTIVE ENTRY-LEVEL CONSTRUCTION WORKERS. CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 618-874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.
7. TRAFFIC CONTROL MAY REQUIRE COORDINATION WITH ANOTHER CONTRACTOR AS THE MISSOURI DEPARTMENT OF TRANSPORTATION MAY HAVE PROJECTS WHICH COINCIDE WITH THE TIMELINE OF THIS PROJECT.
8. REVISE STANDARD SPECIFICATIONS ARTICLE 107.12, PARAGRAPH 5, LAST SENTENCE TO READ: "ALL OTHER RAILROAD FLAGGER COSTS WILL BE INCURRED BY THE DEPARTMENT ACCORDING TO ARTICLE 109.05."
9. A CONTRACTOR'S RIGHT-OF-ENTRY PERMIT IS REQUIRED BEFORE ANY WORK CAN COMMENCE ON RAILROAD PROPERTY. THE COST TO OBTAIN THIS PERMIT SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

COMMITMENTS

NONE

HIGHWAY STANDARDS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 701428-01 TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY / EXPRESSWAY
- 701456-04 PARTIAL EXIT RAMP CLOSURE FREEWAY / EXPRESSWAY
- 701901-06 TRAFFIC CONTROL DEVICES

DETAILED LOCATION MAP

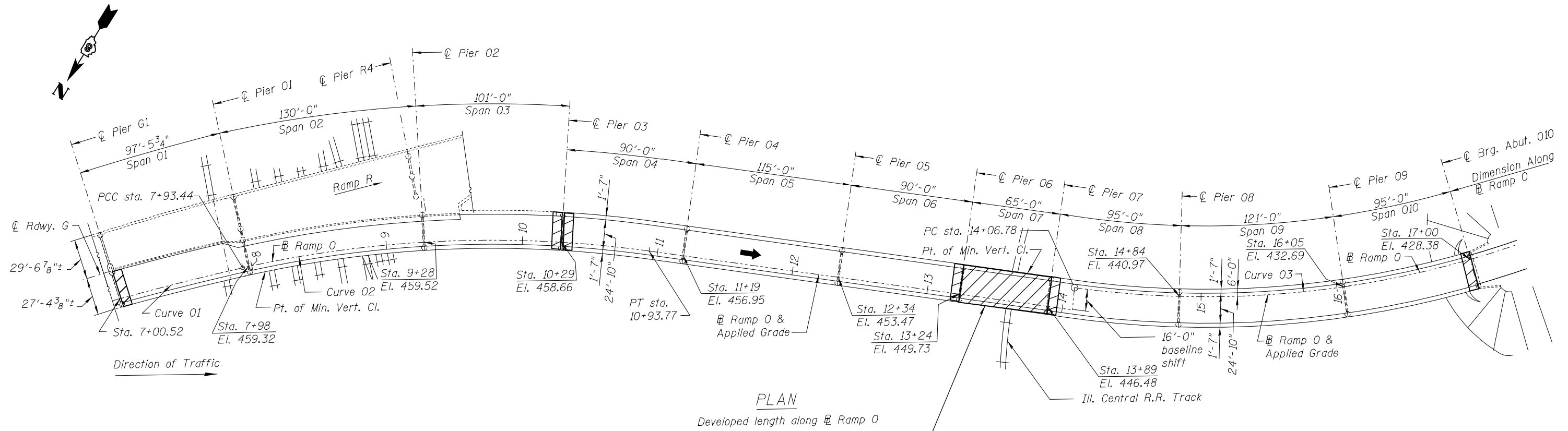


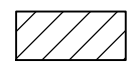
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pw:\IL\084EBIDINTEG\illinois.gov\PIDOT\Documents\DOT Offices\District 8\Projects\08750\Drawings\08750-11x17-shld\08750-11x17-shld.dwg	DATE	CHECKED -	REVISED -					•	82-3HVB-2-P	ST. CLAIR	18	2
Default	PLOT SCALE = 100.0000' / in.	DATE	REVISED -		•	FAI 70 / FAP 312	CONTRACT NO. 76G15					
	PLOT DATE = 2/10/2017	DATE	REVISED -		ILLINOIS FED. AID PROJECT							
				SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.		

10/21/17

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				100% STATE ✓ URBAN ✓ BRIDGE 0014 ✓ S.N. 082-0201
67100100	MOBILIZATION	LSUM	1	1
70100825	TRAFFIC CONTROL AND PROTECTION, STANDARD 701456	LSUM	1	1
• Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1	LSUM	1	1
• Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	LSUM	1	1
• Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	LSUM	1	1

S

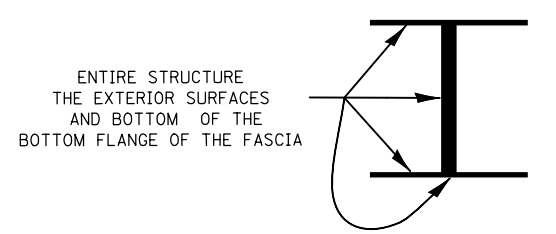


 ALL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL WITHIN 5 FEET (MEASURED ALONG THE BEAM) ON THE SIDE OF THE DECK JOINT AS DELINEATED SHALL BE CLEANED AND PAINTED. (SP 10) (DEVIATION: ENTIRE LENGTH OF SPAN 07)

NOTES:

1. A MINIMUM OF TWO AIR MONITORS WILL BE REQUIRED TO MONITOR ABRASIVE BLASTING OPERATIONS AT THIS SITE. SEE SPECIAL PROVISION FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES".
2. CLEANING AND PAINTING OF THE EXISTING STEEL AND BEARINGS SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES". ALL AREAS SPECIFIED SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING--SSPC-SP10.
3. THE DESIGNATED AREAS CLEANED PER NEAR WHITE BLAST CLEANING--SSPC-SP10 SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1-0Z/E/U. THE COLOR OF THE FINISH COAT FOR ALL STEEL SURFACES SHALL BE GRAY, MUNSELL NO. 5B 7/1.

FASCIA BEAM CLEANING AND PAINTING AREAS, SSPC-SP 10

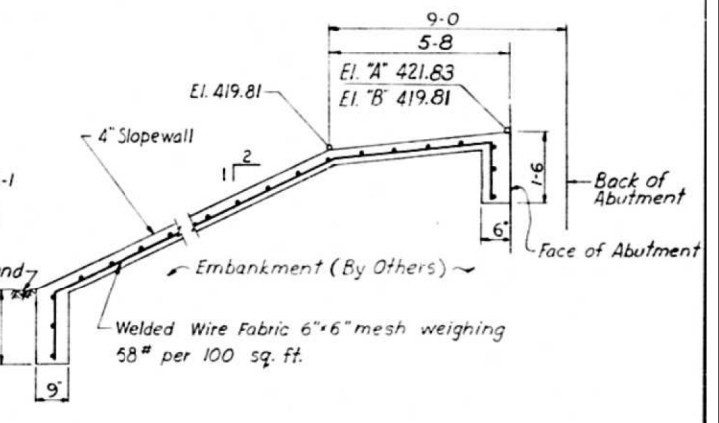
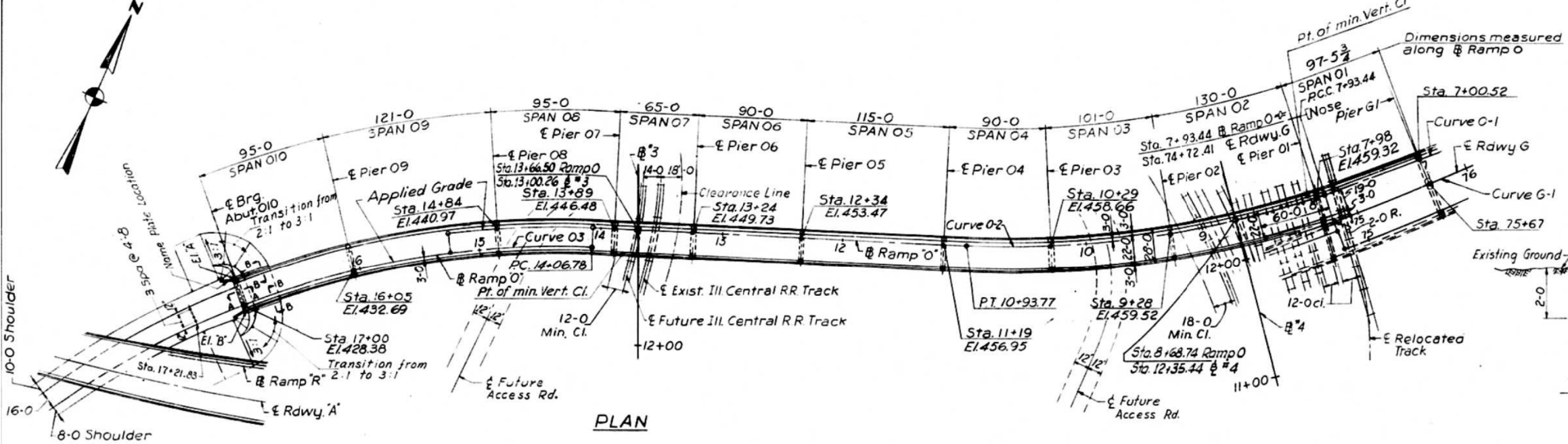
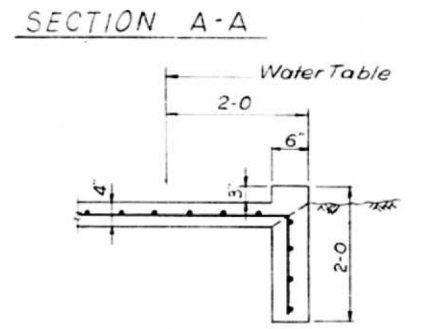
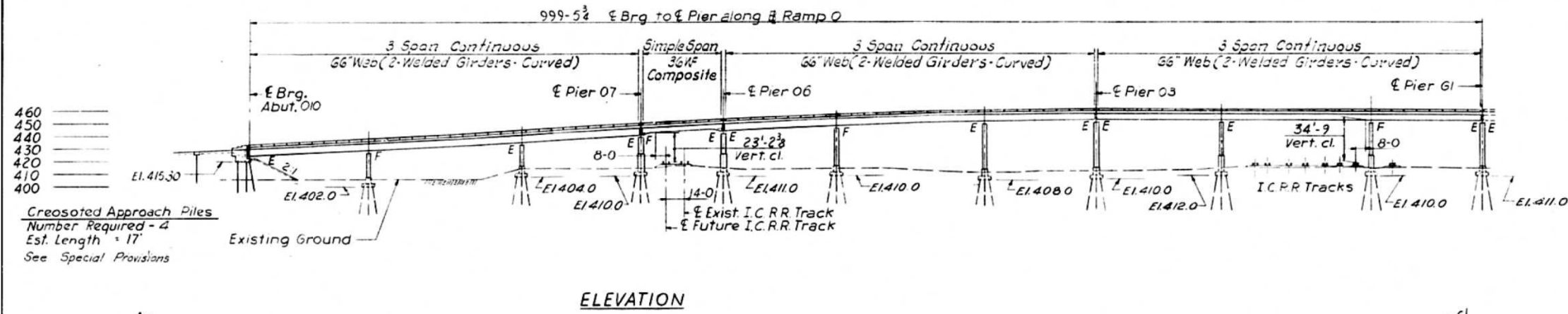
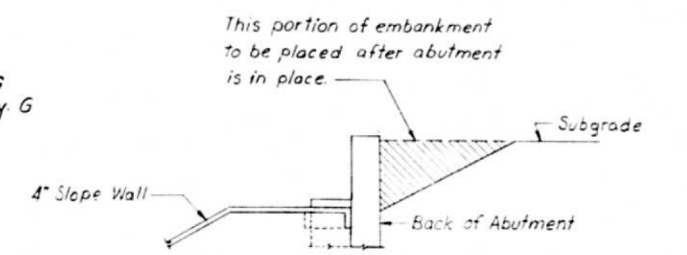
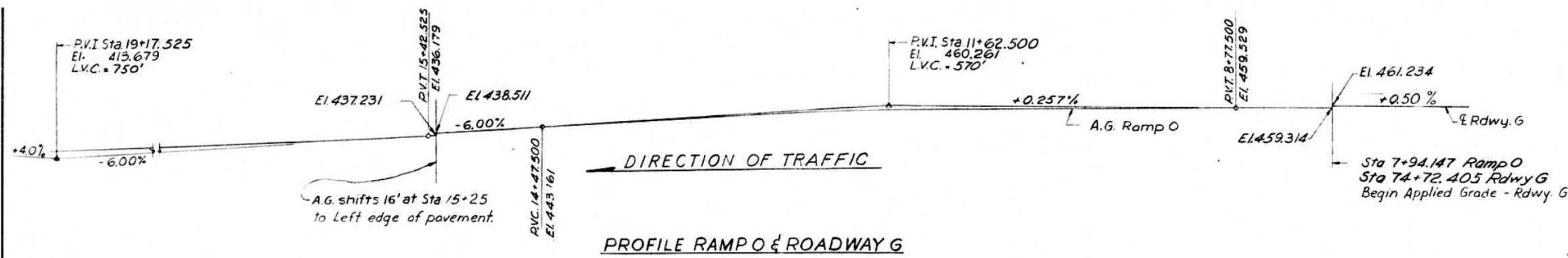


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Default		CHECKED -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	18	4
		DATE -	REVISED -									CONTRACT NO. 76G15	
												ILLINOIS FED. AID PROJECT	

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVB-1	ST. CLAIR	207	38
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

82-3HVB-E-1
82-3HVD-1

37
72



TYPICAL CROSS SECTION OF SLOPE WALL
Note: Plan of Slope Wall similar to Plan shown for Abut 011 - sh no. 20

FOR INFORMATION ONLY

BILL OF MATERIAL		
Item	Unit	Quantity
Slope Wall 4"	S.Y.	177
Name Plate	Ea.	1
Embankment	C.Y.	47

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
PLAN AND ELEVATION
SPANS 01 THRU 010
POPLAR STREET BRIDGE APPROACHES
RAMP "O"

SECTIONS 82-3HVB-1
82-3HVB-E-1
82-3HVD-1

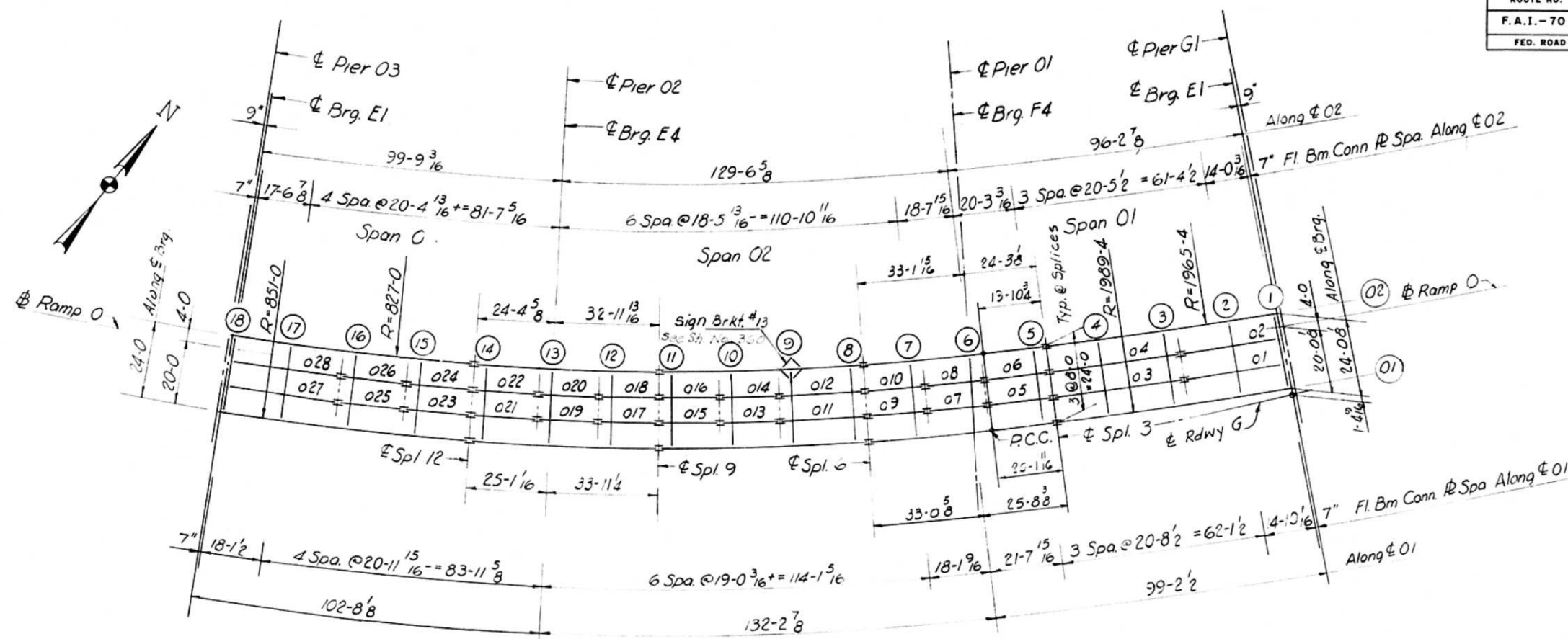
F.A.I. RT. 70 ST. CLAIR CO.

H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET
19 OF 526

DESIGNED BY J.J.N.
DRAWN BY [Signature]
CHECKED BY R.M.R.
APPROVED BY K.A.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVFB-E-1	ST. CLAIR	247	157
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	



PLAN
Spans 01 thru 03

Note:
Dimensions locating Floor Beams are given to the Floor Beam Conn. Plate, see Sketch Sheet No. 183

ELEVATION TOP OF GIRDER WEB

	GIR. 01	GIR. 02	DIFF.
CL. BRG.	459.733	457.812	1.921
FLOOR BEAM 1	459.734	457.814	1.920
FLOOR BEAM 2	459.777	457.854	1.923
FLOOR BEAM 3	459.836	457.913	1.923
FLOOR BEAM 4	459.895	457.973	1.922
SPLICE 3	459.943	458.020	1.923
FLOOR BEAM 5	459.953	458.031	1.922
FLOOR BEAM 6	460.009	458.085	1.924
FLOOR BEAM 7	460.055	458.134	1.921
SPLICE 6	460.093	458.173	1.920
FLOOR BEAM 8	460.102	458.182	1.920
FLOOR BEAM 9	460.145	458.225	1.920
FLOOR BEAM 10	460.188	458.268	1.920
FLOOR BEAM 11	460.231	458.311	1.920
SPLICE 9	460.240	458.320	1.920
FLOOR BEAM 12	460.203	458.283	1.920
FLOOR BEAM 13	460.157	458.237	1.920
FLOOR BEAM 14	460.106	458.186	1.920
SPLICE 12	460.096	458.176	1.920
FLOOR BEAM 15	459.934	458.014	1.920
FLOOR BEAM 16	459.733	457.812	1.921
FLOOR BEAM 17	459.531	457.611	1.920
FLOOR BEAM 18	459.357	457.438	1.919
CL. BRG.	459.352	457.432	1.920

FOR INFORMATION ONLY

BILL OF MATERIAL

*Structural Steel Lbs. 403,410

*Weight of Bearing Assemblies with Lead Plates and Anchor Bolts are Included as Structural Steel Est. Wt. 6960

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
FRAMING PLAN
SPANS 01 THRU 03
POPLAR STREET BRIDGE APPROACHES
RAMP "O"

F.A.I. RT.70 ST. CLAIR CO. SECTION 82-3HVFB-E-1
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET NO. 267 of 526

DESIGNED BY: RMR
DRAWN BY: JJK
CHECKED BY: JJK
APPROVED BY: RMR

FILE NAME =	USER NAME = smithma	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SN 082-0201 EXISTING STRUCTURE DETAILS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -		SCALE:	* FAI 70 / FAP 312				CONTRACT NO. 76G15
	PLOT DATE = 2/10/2017	DATE -	REVISED -		SHEET OF SHEETS	ILLINOIS FED. AID PROJECT				

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

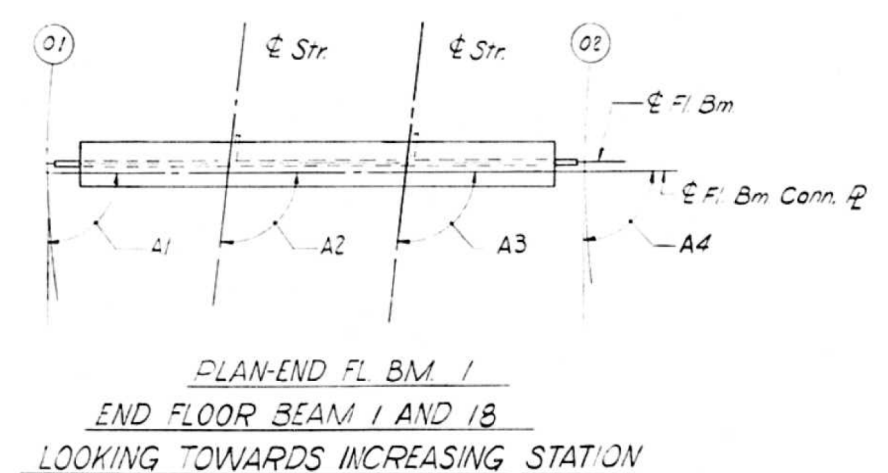
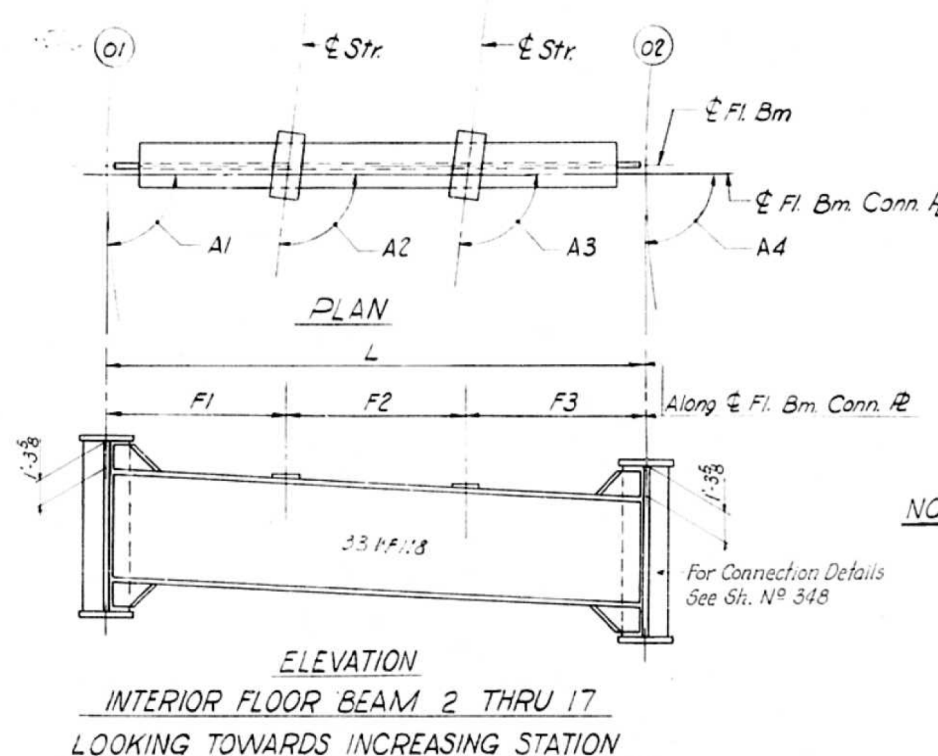
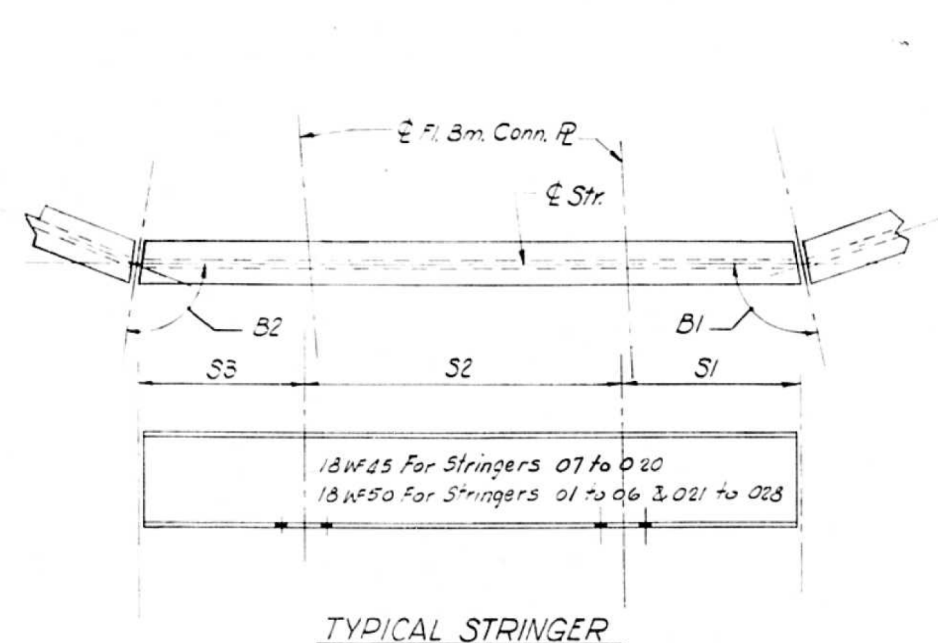
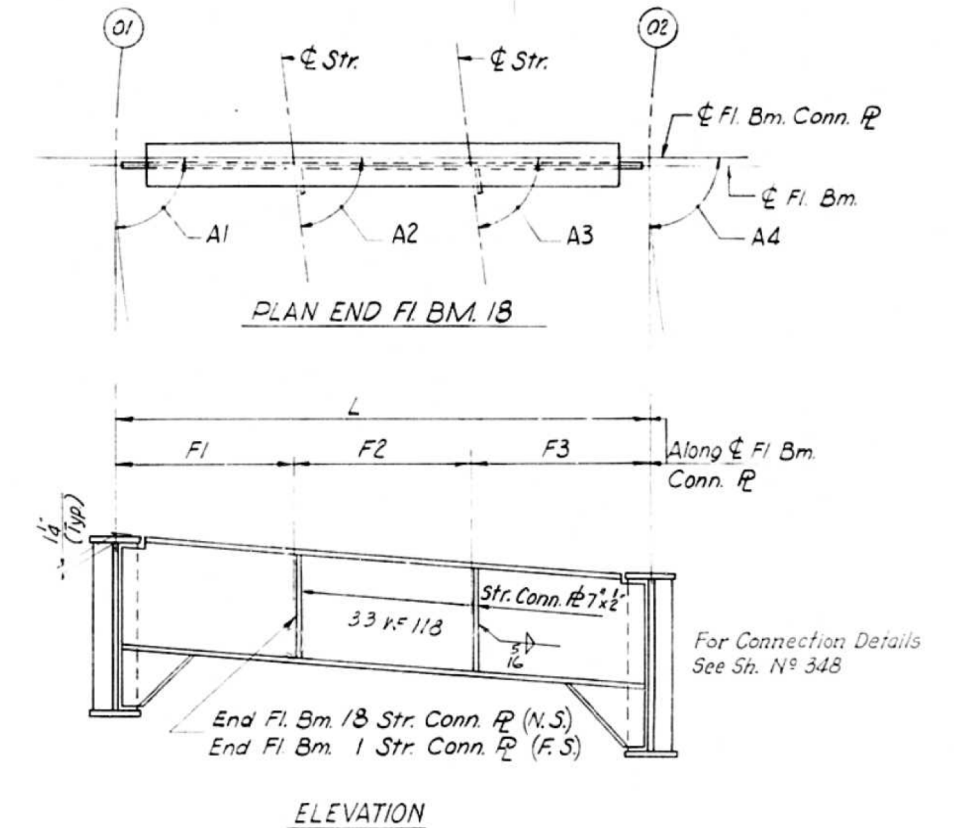
FOR INFORMATION ONLY

STRINGER DIMENSIONS

STR	L	S1	S2	S3	B1	B2
1	31 1 15/16		14 6 3/4	16 7 3/16	91.99.58	90.27.02
2	30 9 7/8		14 3 7/16	16 6 3/8	92.00.10	90.26.51
3	41 3	4 5/16	20 7 1/2	16 7 3/16	90.35.47	90.35.47
4	41 1	4 1/8	20 6 1/2	16 6 3/8	90.35.47	90.35.47
5	20 7 9/16	4 5/16		16 7 1/4	90.17.55	90.19.13
6	20 6 1/2	4 1/8		16 6 7/16	90.17.55	90.19.13
7	18 10 1/16	4 7 1/16		14 3	90.38.25	90.38.25
8	18 7 15/16	4 2 5/16		14 5 9/16	90.38.25	90.38.25
9	18 10 1/16	4 11/16		14 9 3/8	90.38.25	90.38.25
10	18 7 15/16	4 1/4		14 7 11/16	90.38.25	90.38.25
11	26 11 7/16	4 11/16	18 10 1/16	4 11/16	90.54.58	90.54.58
12	26 8 3/8	4 1/4	18 7 15/16	4 1/4	90.54.58	90.54.58
13	18 10 1/16	14 9 3/8		4 11/16	90.38.25	90.38.25
14	18 7 15/16	14 7 11/16		4 1/4	90.38.25	90.38.25
15	18 10 1/16	14 9 3/8		4 11/16	90.38.25	90.38.25
16	18 7 15/16	14 7 11/16		4 1/4	90.38.25	90.38.25
17	18 15/16	14 9 3/8		4 11/16	90.38.25	90.38.25
18	15/16	14 7 11/16		4 1/4	90.38.25	90.38.25
19	18 10 1/16	14 9 3/8		4 11/16	90.38.25	90.38.25
20	18 7 15/16	14 7 11/16		4 1/4	90.38.25	90.38.25
21	20 9 9/16	16 8 7/8		4 11/16	90.42.24	90.42.24
22	20 7 3/16	16 6 15/16		4 1/4	90.42.24	90.42.24
23	20 9 9/16	16 8 7/8		4 11/16	90.42.24	90.42.24
24	20 7 3/16	16 6 15/16		4 1/4	90.42.24	90.42.24
25	20 9 9/16	16 8 7/8		4 11/16	90.42.24	90.42.24
26	20 7 3/16	16 6 15/16		4 1/4	90.42.24	90.42.24
27	34 8 1/8	16 8 7/8	17 11 1/4		91.10.43	91.16.09
28	34 4	16 6 15/16	17 9 1/16		91.10.41	91.16.10

FLOOR BEAM DIMENSIONS

FL. BM	L	F1	F2	F3	A1	A2	A3	A4
1	24 1/2	8 1/16	8 1/16	9 1/16	91.32.34	91.98.58	92.00.10	91.33.42
2	24	8 3/4	8	7 11 5/16	90.00.00	90.01.46	90.01.57	90.00.00
3	24	8 7/16	8	7 11 9/16	90.00.00	90.28.48	90.28.48	90.00.00
4	24	8 1 1/4	8	7 10 3/4	90.00.00	89.53.01	89.53.01	90.00.00
5	24	8 3/16	8	7 11 13/16	90.00.00	90.10.56	90.10.56	90.00.00
6	24 1/4	8 9/16	8 1/16	7 11 1/16	87.31.19	87.49.36	87.49.36	87.27.00
7	24	8 7/16	8	7 11 9/16	90.00.00	90.21.82	90.21.82	90.00.00
8	24	8 11/16	8	7 11 3/8	90.00.00	90.38.25	90.38.25	90.00.00
9	24	8 11/16	8	7 11 3/8	90.00.00	89.21.35	89.21.35	90.00.00
10	24	8 7/16	8	7 11 9/16	90.00.00	89.38.08	89.38.08	90.00.00
11	24	8 7/16	8	7 11 9/16	90.00.00	89.38.08	89.38.08	90.00.00
12	24	8 7/16	8	7 11 9/16	90.00.00	89.38.08	89.38.08	90.00.00
13	24	8 7/16	8	7 11 9/16	90.00.00	89.38.08	89.38.08	90.00.00
14	24	8 1/2	8	7 11 1/2	90.00.00	89.34.09	89.34.09	90.00.00
15	24	8 1/2	8	7 11 1/2	90.00.00	89.34.09	89.34.09	90.00.00
16	24	8 1/2	8	7 11 1/2	90.00.00	89.34.09	89.34.09	90.00.00
17	24	8 2 1/8	8	7 9 7/8	90.00.00	90.02.27	90.02.26	90.00.00
18	24	8	8	8	89.54.37	88.43.51	88.43.50	89.54.27



NOTES:
Length L of Stringers and Fl. Bms. is correct as given in the Table except the increment lengths are given to the nearest 1/16". All dimensions are in the horizontal plane. For Connection Plate Det. see Sh. No. 348

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
STRINGER AND FLOOR BEAM
SCHEDULE
SPANS 01 THRU 03
POPLAR STREET BRIDGE APPROACHES
RAMP "0"

F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB E-1

H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET NO. 28 OF 526

DESIGNED BY: R.M.R.
DRAWN BY: J.S.
CHECKED BY: J.S.
APPROVED BY: J.S.

FILE NAME =	USER NAME = smithma	DESIGNED -	REVISED -
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		DATE -	REVISED -

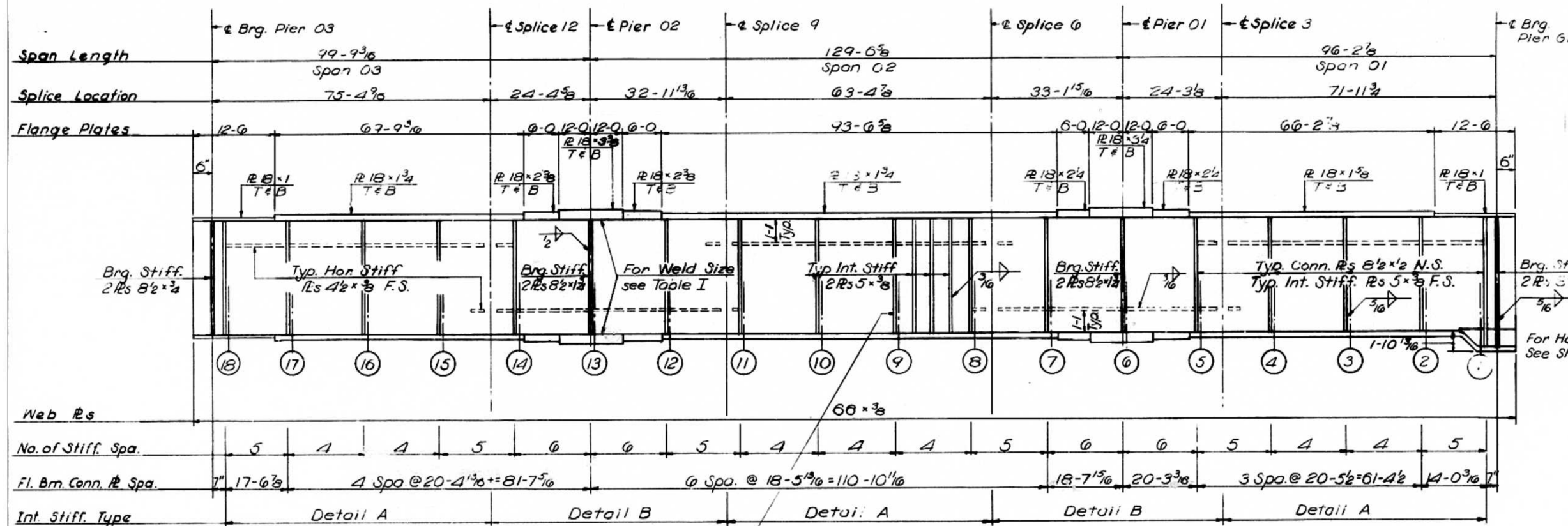
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 082-0201 EXISTING STRUCTURE DETAILS

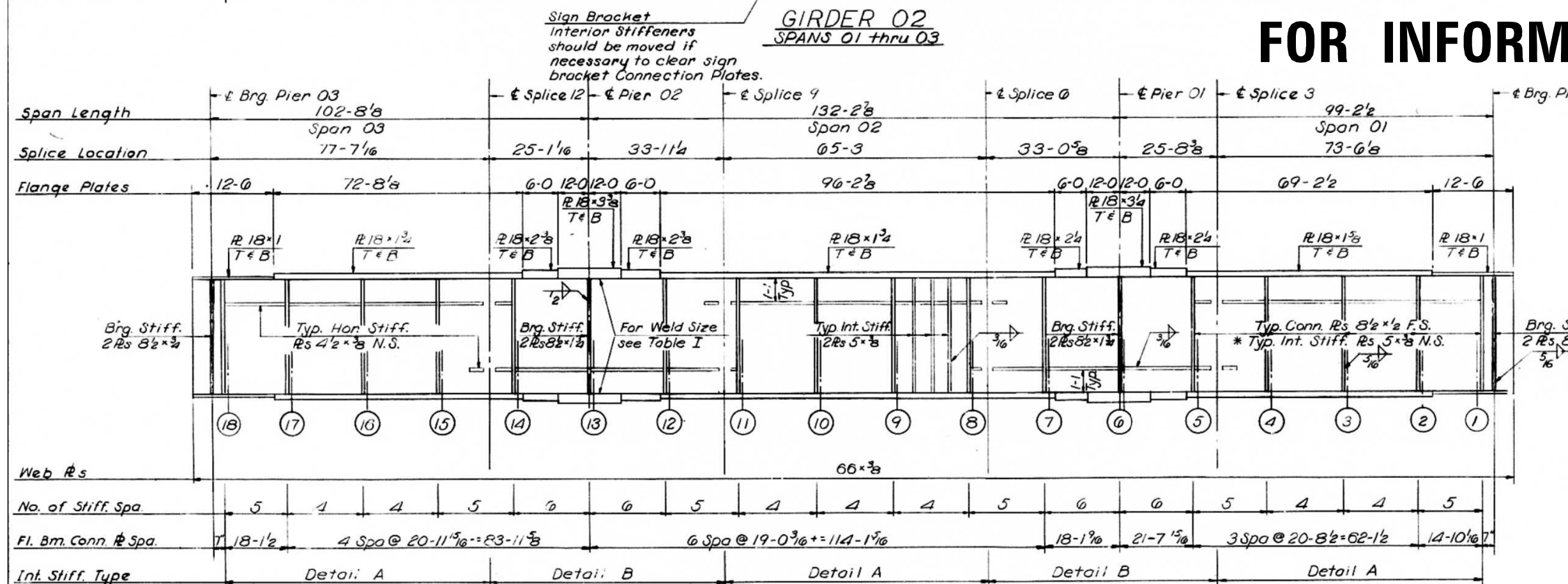
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
• FAI 70 / FAP 312	82-3HVB-2-P	ST. CLAIR	18	8
				CONTRACT NO. 76G15
		ILLINOIS	FED. AID PROJECT	

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVF & E-1	ST. CLAIR	247	160
FED. ROAD DIV. NO. 4		ILLINOIS PROJECT		



FOR INFORMATION ONLY



Notes:
 All Longitudinal Dimensions shown are given along ϵ of Web. See Sh.No.287.
 All Bearing Stiffeners and Connection Plates to be vertical.
 For Splice, Stiffener, Connection Plate Details and Table I see Sh. No's 348 349 and 350.
 For Sign Bracket Detail see Sh.No.300.

* See Slab Bracket Details (Sh. No 359) for location and details of Connection Plates for Slab Brackets. These Connection Plates to be used instead of Typical Intermediate Stiffeners where Stiffener occurs midway between Floor Beams.

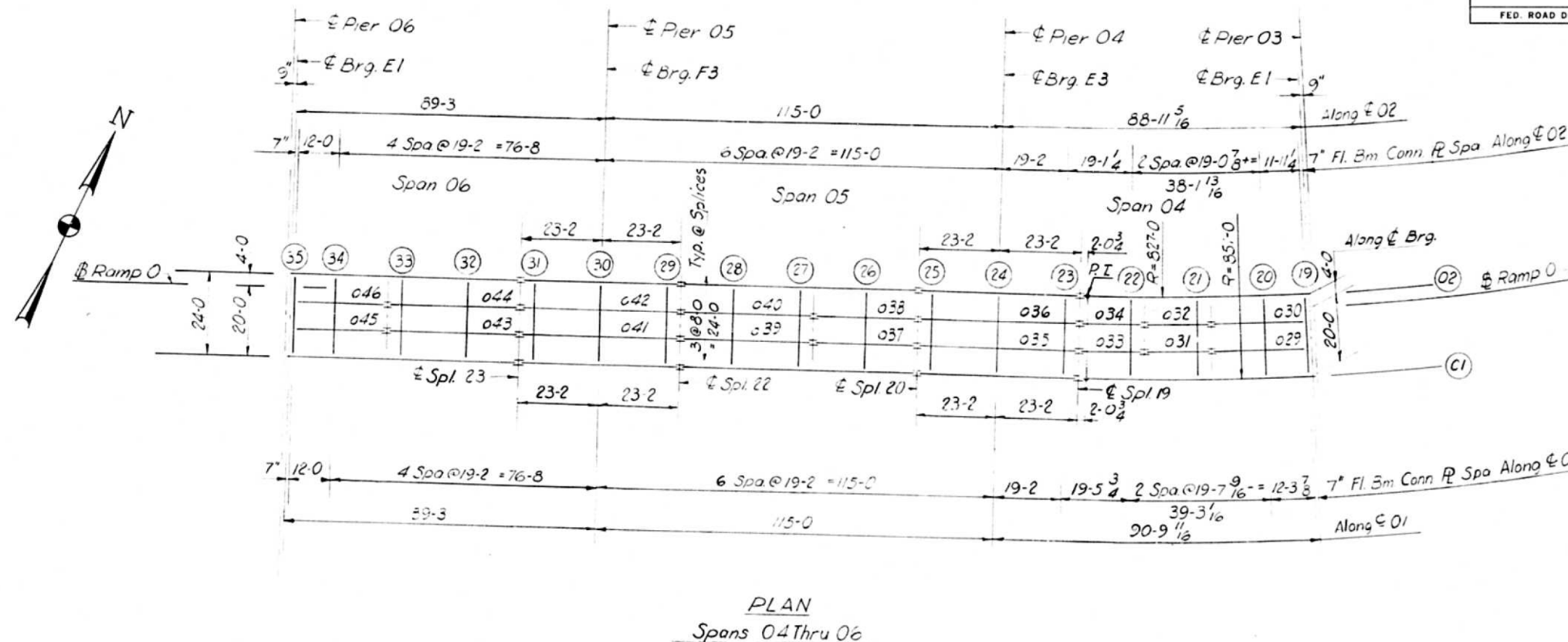
DESIGNED BY: E.L.
 DRAWN BY: O.C.H.
 CHECKED BY: A.T.
 APPROVED BY: K.A.

GIRDER 01
 SPANS 01 thru 03

STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS & BLDGS.
 DIVISION OF HIGHWAYS
 GIRDERS 01 AND 02
 SPANS 01 THRU 03
 POPLAR STREET BRIDGE APPROACHES
 RAMP "0"
 F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVF & E-1
 H. W. LOCHNER, INC.
 ENGINEERS
 CHICAGO, ILLINOIS

SHEET 290 of 526

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. - 70	82-3HVF&E-1	ST. CLAIR	247	161
FED. ROAD DIV. NO. 4		ILLINOIS PROJECT		



FOR INFORMATION ONLY

Note:
Dimensions locating Floor Beams are given to the Floor Beam Conn. Plate, see Sketch Sheet No. 183

ELEVATION TOP OF GIRDER WEB

	GIR. 01	GIR. 02	DIFF.
CL. BRG.	459.331	457.411	1.920
FLOOR BEAM 19	459.316	457.401	1.915
FLOOR BEAM 20	459.002	457.208	1.794
FLOOR BEAM 21	458.503	456.899	1.604
FLOOR BEAM 22	458.003	456.591	1.412
SPLICE 19	457.609	456.346	1.263
FLOOR BEAM 23	457.486	456.256	1.230
FLOOR BEAM 24	456.896	455.823	1.073
FLOOR BEAM 25	456.307	455.390	.917
SPLICE 20	456.184	455.300	.884
FLOOR BEAM 26	455.622	454.862	.759
FLOOR BEAM 27	454.911	454.308	.603
FLOOR BEAM 28	454.201	453.755	.446
SPLICE 22	453.639	453.316	.322
FLOOR BEAM 29	453.465	453.176	.289
FLOOR BEAM 30	452.634	452.501	.133
FLOOR BEAM 31	451.802	451.826	.024
SPLICE 23	451.629	451.685	.055
FLOOR BEAM 32	450.877	451.058	.181
FLOOR BEAM 33	449.928	450.265	.337
FLOOR BEAM 34	448.978	449.472	.494
FLOOR BEAM 35	448.384	448.975	.590
CL. BRG.	448.355	448.951	.596

BILL OF MATERIAL

*Structural Steel	Lbs. 286,300
-------------------	--------------

*Weight of Bearing Assemblies with Lead Plates and Anchor Bolts are Included as Structural Steel Est. Wt. 6320

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
FRAMING PLAN
SPANS 04 THRU 06
POPLAR STREET BRIDGE APPROACHES
RAMP "O"

F.A.I. RT.70 ST. CLAIR CO. SECTION 82-3HVF&E
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET
291 of 520

DESIGNED BY *E.M.R.*
DRAWN BY *JK*
CHECKED BY *AT*
APPROVED BY *KA*

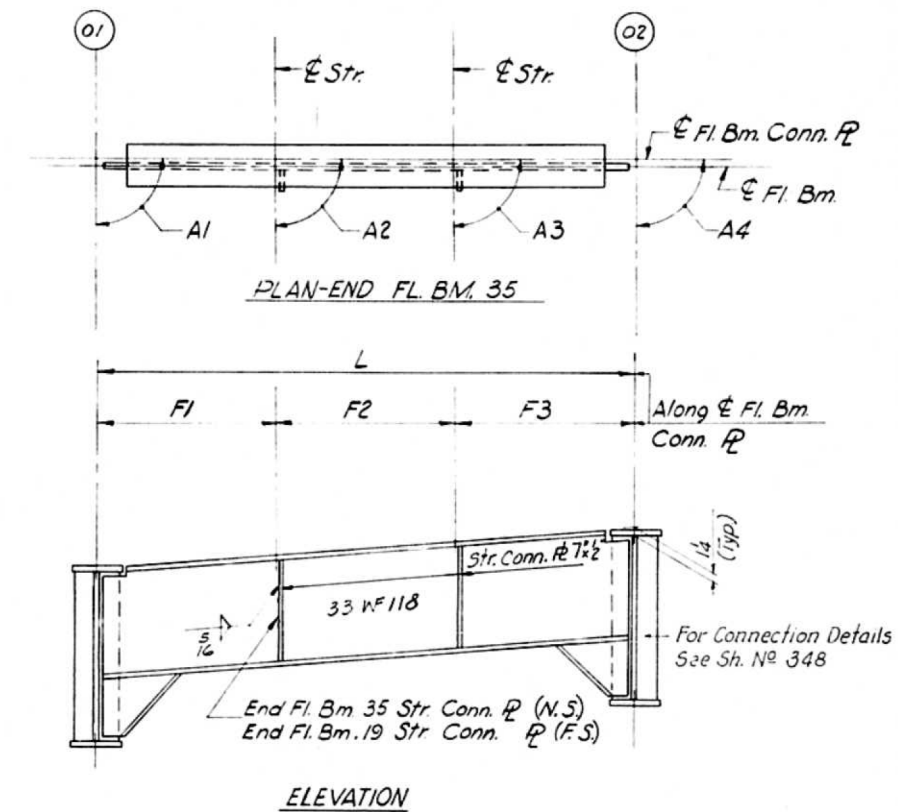
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. - 70	82-3HVFB&E-1	ST. CLAIR	247	162
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

STRINGER DIMENSIONS

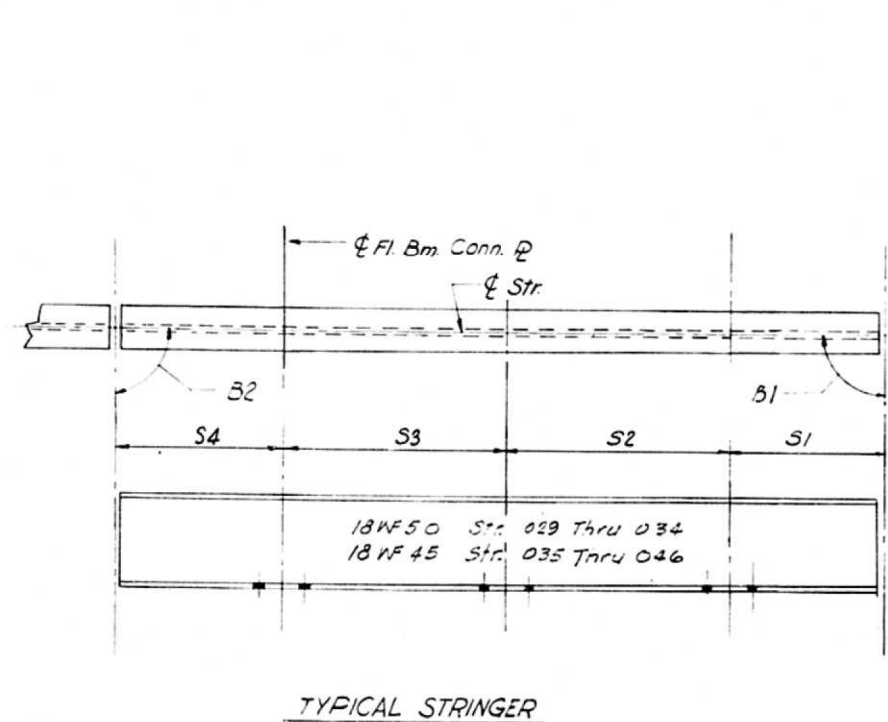
STR	L	S1	S2	S3	S4	B1	B2
29	27 8 15/16		12 2 5/16		15 4 5/8	91,01.40	90,56.14
30	27 3 5/8		12 3/4		15 2 7/8	91,01.42	90,56.12
31	19 5 5/16	4 11/16			15 4 5/8	90,39.39	90,39.39
32	19 3 1/8	4 1/4			15 2 7/8	90,39.39	90,39.39
33	19 4 15/16	4 11/16			15 4 1/4	90,39.08	90,31.37
34	19 3	4 1/4			15 2 3/4	90,39.10	90,31.35
35	46 4	4	19 2	19 2	4	90,00.00	90,00.00
36	46 4	4	19 2	19 2	4	90,00.00	90,00.00
37	30 4	15 2			15 2	90,00.00	90,00.00
38	30 4	15 2			15 2	90,00.00	90,00.00
39	38 4	4	19 2		15 2	90,00.00	90,00.00
40	38 4	4	19 2		15 2	90,00.00	90,00.00
41	46 4	4	19 2	19 2	4	90,00.00	90,00.00
42	46 4	4	19 2	19 2	4	90,00.00	90,00.00
43	38 4	15 2	19 2		4	90,00.00	90,00.00
44	38 4	15 2	19 2		4	90,00.00	90,00.00
45	27 2	15 2	12			90,00.00	90,00.00
46	27 2	15 2	12			90,00.00	90,00.00

FLOOR BEAM DIMENSIONS

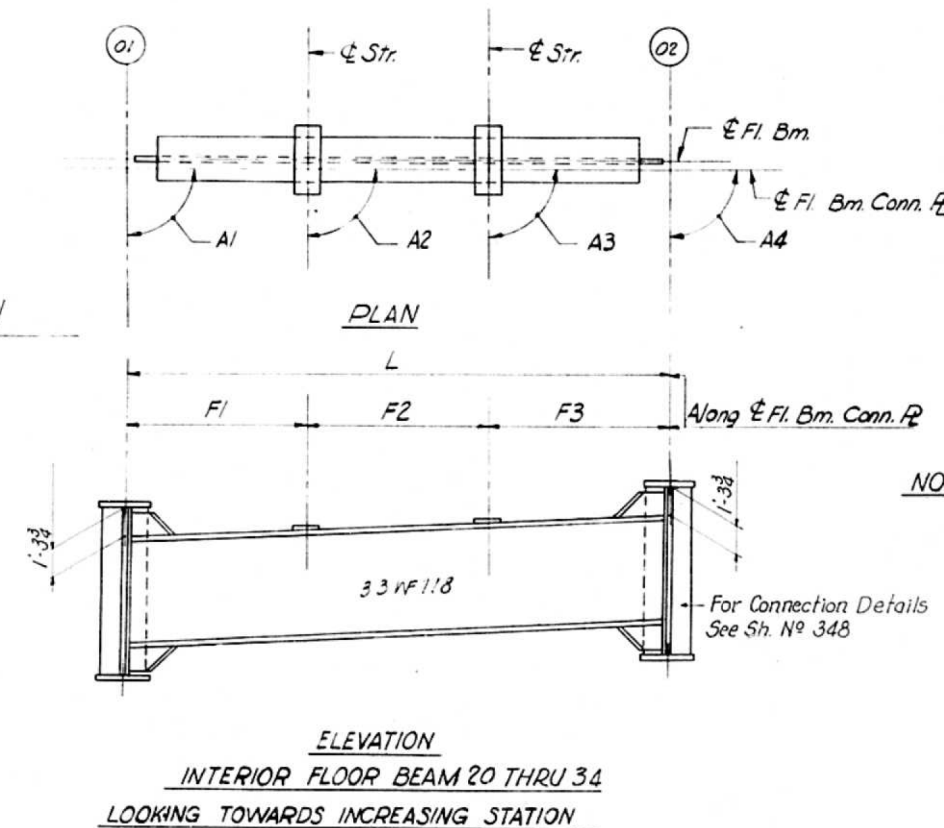
FL. BM	L	F1	F2	F3	A1	A2	A3	A4
19	24	8	8	8	90,05.23	91,01.40	91,01.42	90,05.33
20	24	8 1 5/16	8	7 10 11/16	90,00.00	90,06.31	90,06.32	90,00.00
21	24	8 7/16	8	7 11 9/16	90,00.00	90,23.06	90,23.06	90,00.00
22	24	8 7/16	8	7 11 9/16	90,00.00	90,22.35	90,22.37	90,00.00
23	24	8	8	8	90,00.00	90,00.00	90,00.00	90,00.00
24	24	8	8	8	90,00.00	90,00.00	90,00.00	90,00.00
25	24	8	8	8	90,00.00	90,00.00	90,00.00	90,00.00
26	24	8	8	8	90,00.00	90,00.00	90,00.00	90,00.00
27	24	8	8	8	90,00.00	90,00.00	90,00.00	90,00.00
28	24	8	8	8	90,00.00	90,00.00	90,00.00	90,00.00
29	24	8	8	8	90,00.00	90,00.00	90,00.00	90,00.00
30	24	8	8	8	90,00.00	90,00.00	90,00.00	90,00.00
31	24	8	8	8	90,00.00	90,00.00	90,00.00	90,00.00
32	24	8	8	8	90,00.00	90,00.00	90,00.00	90,00.00
33	24	8	8	8	90,00.00	90,00.00	90,00.00	90,00.00
34	24	8	8	8	90,00.00	90,00.00	90,00.00	90,00.00
35	24	8	8	8	90,00.00	90,00.00	90,00.00	90,00.00



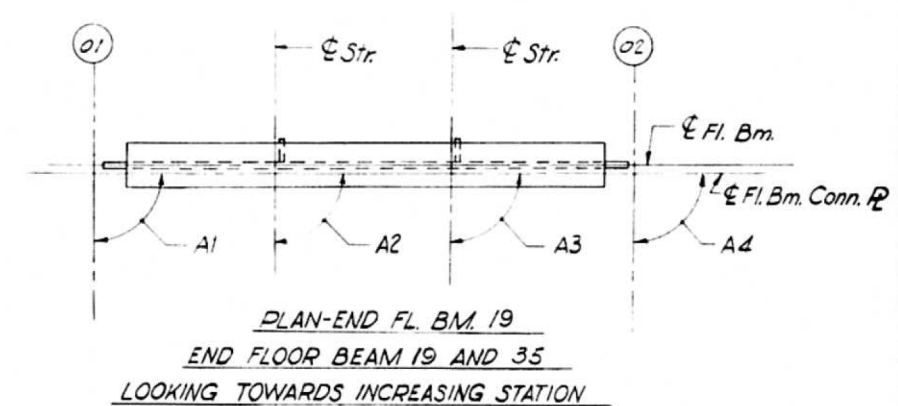
FOR INFORMATION ONLY



TYPICAL STRINGER



ELEVATION
INTERIOR FLOOR BEAM 20 THRU 34
LOOKING TOWARDS INCREASING STATION



PLAN-END FL. BM. 19
END FLOOR BEAM 19 AND 35
LOOKING TOWARDS INCREASING STATION

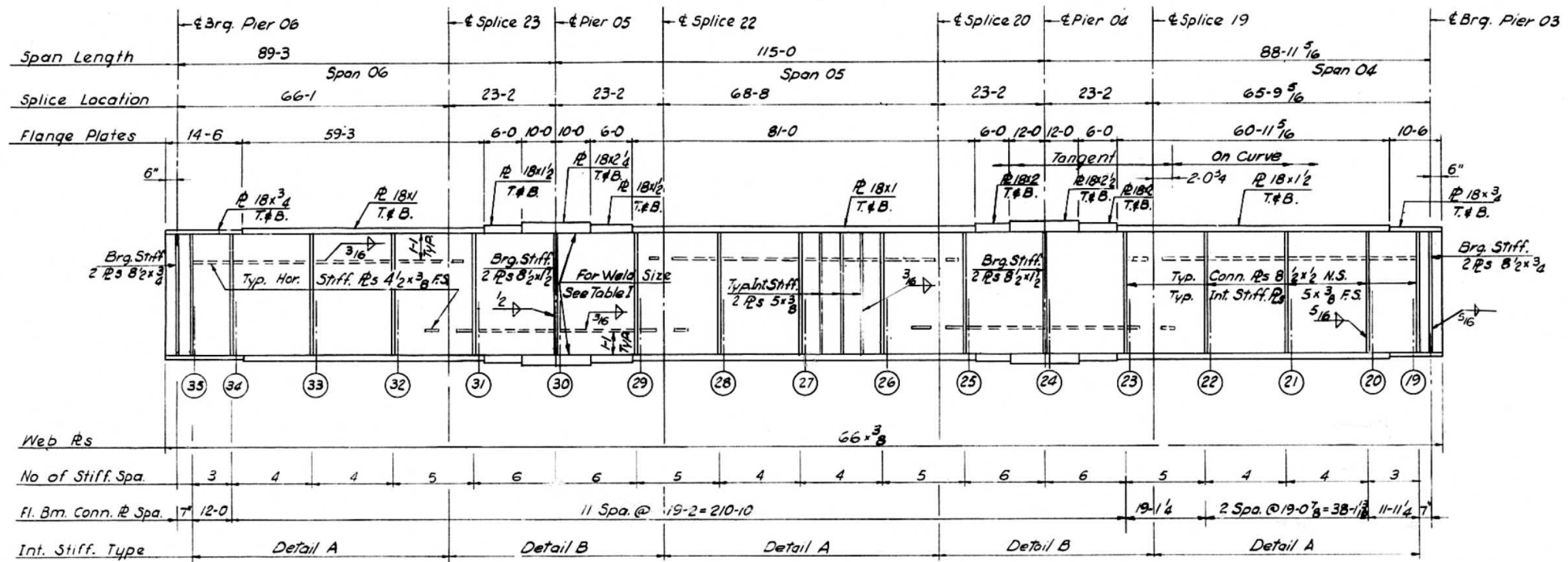
NOTES: Length L of Stringers and Fl. Bms. is correct as given in the table except the increment lengths are given to the nearest 1/16".
All dimensions are in the horizontal plane.
For Connection Plate Det. See Sh. No. 348

DESIGNED BY R.M.R.
DRAWN BY J.
CHECKED BY A.T.
APPROVED BY K.A.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
STRINGER AND FLOOR BEAM
SCHEDULE
SPANS 04 THRU 06
POPLAR STREET BRIDGE APPROACHES
RAMP "O"

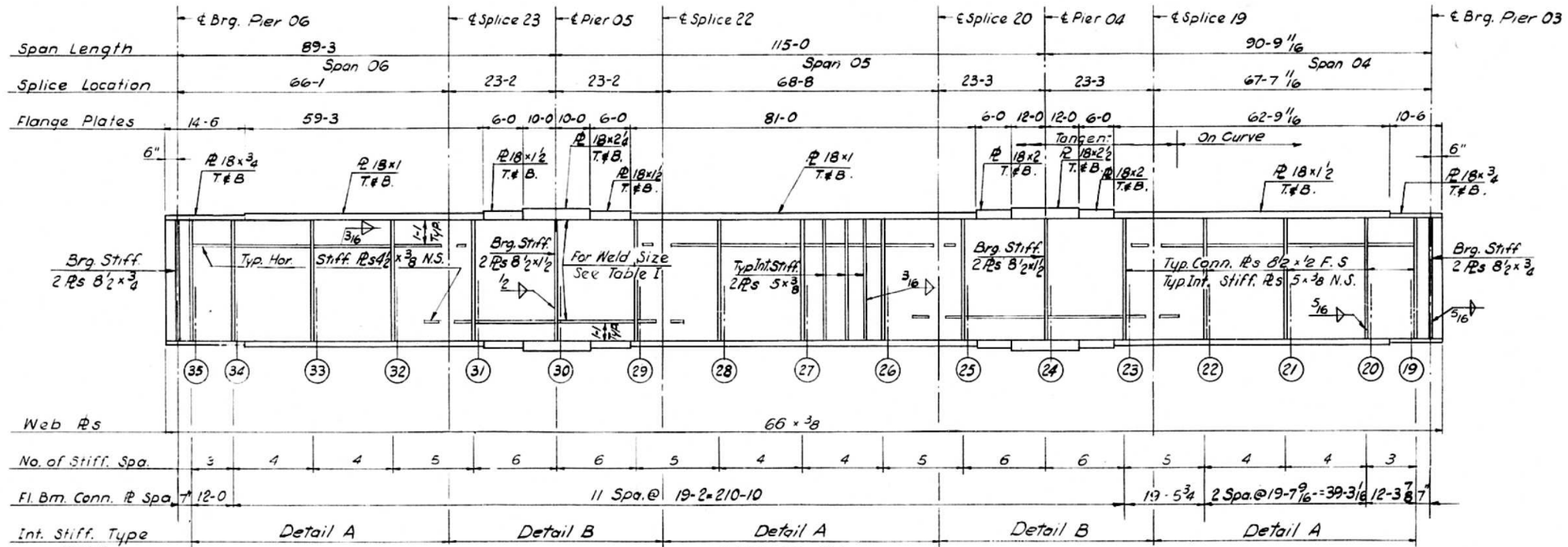
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVFB&E-1
H. W. LOCHNER, INC. ENGINEERS SHEET

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVF B E-1	ST. CLAIR	247	164
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	



GIRDER 02
Spans 04 Thru 06

Notes:
 All longitudinal dimensions shown are given along ϵ of Web. See Sh. No. 291
 All Bearing Stiffeners and Connection Plates to be vertical.
 For Splice, Stiffener, Connection Plate Details and Table I see Sh. No. 34B 349 and 350.



GIRDER 01
Spans 04 Thru 06

FOR INFORMATION ONLY

STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS & BLDGS.
 DIVISION OF HIGHWAYS

GIRDERS 01 AND 02
 SPANS 04 THRU 06
 POPLAR STREET BRIDGE APPROACHES
 RAMP "O"

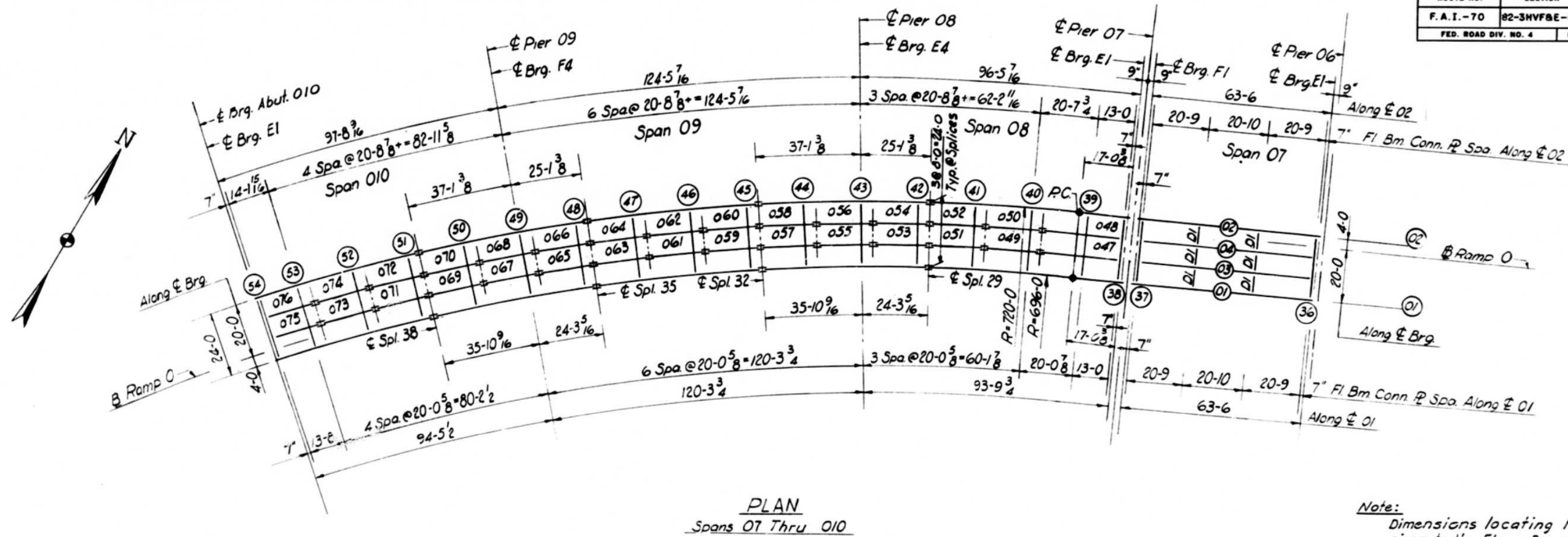
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVF B E-1

H. W. LOCHNER, INC.
 ENGINEERS
 CHICAGO, ILLINOIS

SHEET
 294 of 524

DESIGNED BY: RMR
 DRAWN BY: JK
 CHECKED BY: EL
 APPROVED BY: KA

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVFB-E-1	ST. CLAIR	247	165
FED. ROAD DIV. NO. 4		ILLINOIS PROJECT		



PLAN
Spans 07 Thru 010

Note:
Dimensions locating Floor Beams are given to the Floor Beam Conn. Plate, see Sketch Sheet No. 183

FOR INFORMATION ONLY

ELEVATION TOP OF GIRDER WEB

	GIR. 01	GIR. 02	DIFF.
CL. BRG.	444.576	445.716	1.140
FLOOR BEAM 38	444.538	445.684	1.146
FLOOR BEAM 39	443.685	444.875	1.290
FLOOR BEAM 40	442.388	443.847	1.479
FLOOR BEAM 41	441.052	442.715	1.663
SPLICE 29	440.013	441.821	1.808
FLOOR BEAM 42	438.751	441.567	1.816
FLOOR BEAM 43	438.510	440.363	1.853
FLOOR BEAM 44	437.288	439.160	1.891
SPLICE 32	436.289	438.209	1.920
FLOOR BEAM 45	436.041	437.961	1.920
FLOOR BEAM 46	434.863	436.783	1.920
FLOOR BEAM 47	433.685	435.605	1.920
SPLICE 35	432.758	434.675	1.920
FLOOR BEAM 48	432.538	434.459	1.920
FLOOR BEAM 49	431.513	433.433	1.920
FLOOR BEAM 50	430.487	432.407	1.920
SPLICE 38	429.676	431.596	1.920
FLOOR BEAM 51	429.494	431.414	1.920
FLOOR BEAM 52	428.628	430.548	1.920
FLOOR BEAM 53	427.782	429.682	1.920
FLOOR BEAM 54	427.172	429.091	1.919
CL. BRG.	427.147	429.087	1.920

ELEVATION TOP OF FLANGE

	BL. 01	BL. 02	DIFF.
CL. BRG.	448.483	449.082	.609
FLOOR BEAM 36	448.450	449.064	.614
FLOOR BEAM 37	444.908	446.031	1.123
CL. BRG.	444.875	446.003	1.128

BILL OF MATERIAL

*Structural Steel	Lbs.	424,180
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*Weight of Bearing Assemblies with Lead Plates and Anchor Bolts are Included as Structural Steel Est. Wt. 9140 Lbs.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
FRAMING PLAN
SPANS 07 THRU 010
POPLAR STREET BRIDGE APPROACHES
RAMP "O"

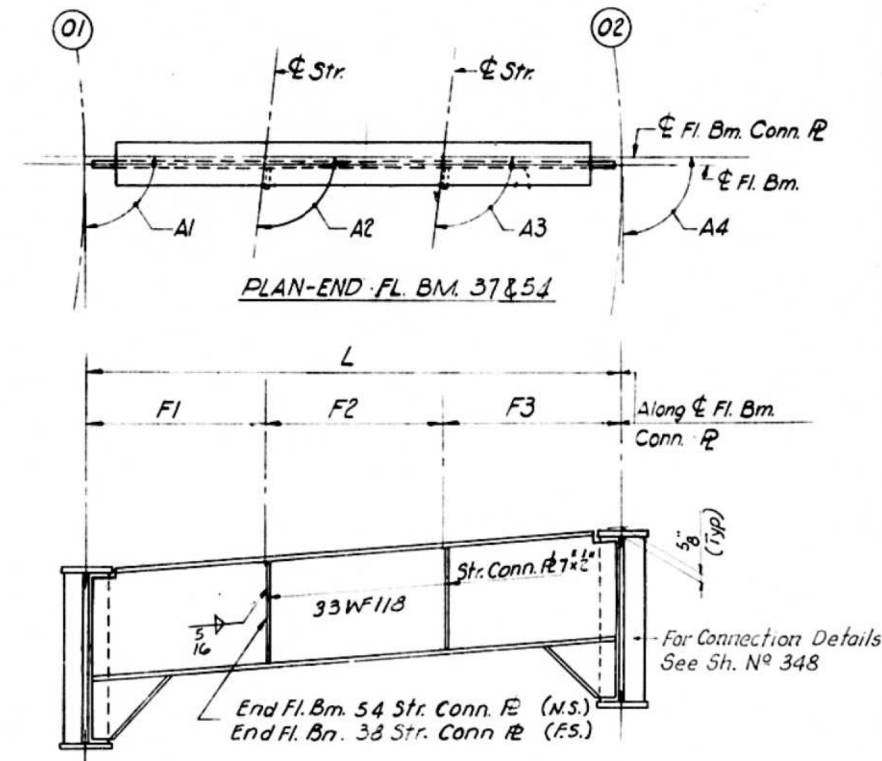
F.A.I. RT.70 ST. CLAIR CO. SECTION 82-3HVFB-E-1
H. W. LOCHNER, INC. ENGINEERS

DESIGNED BY: RMR
DRAWN BY: JK
CHECKED BY: AT
APPROVED BY: KA

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. I. - 70	B2-3HVF & E-1	ST. CLAIR	247	166
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

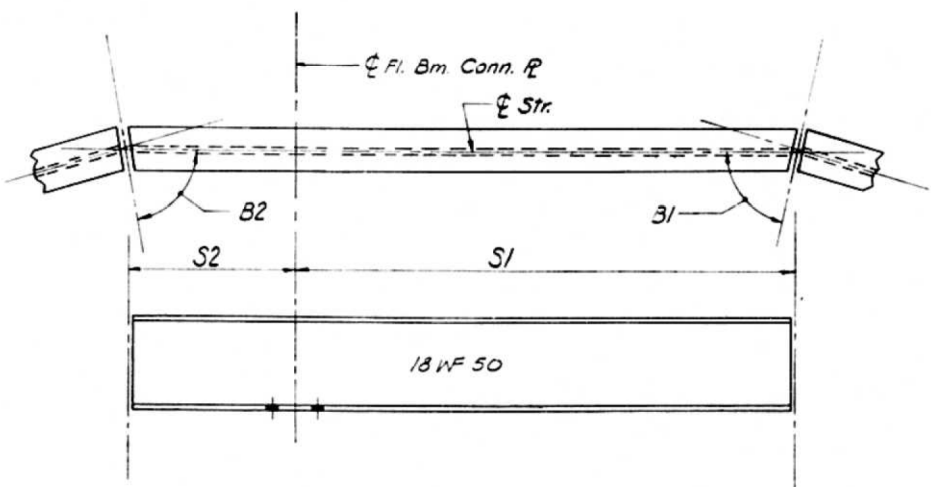
STR NUMBER	L	S1	S2	S1	S2
47	28 11 7/8	13	15 11 7/8	88,46,45	89,12,01
48	29 1 9/16	13	16 1 9/16	88,46,40	89,12,08
49	20 3 3/8	4 3 5/16	16 1/16	89,10,29	89,10,29
50	20 6 1/8	4 3 7/8	16 2 1/4	89,10,29	89,10,29
51	20 3 3/8	4 3 5/16	16 1/16	89,10,29	89,10,29
52	20 6 1/8	4 3 7/8	16 2 1/4	89,10,29	89,10,29
53	20 3 3/8	4 3 5/16	16 1/16	89,10,29	89,10,29
54	20 6 1/8	4 3 7/8	16 2 1/4	89,10,29	89,10,29
55	20 3 3/8	4 3 5/16	16 1/16	89,10,29	89,10,29
56	20 6 1/8	4 3 7/8	16 2 1/4	89,10,29	89,10,29
57	20 3 3/8	4 3 5/16	16 1/16	89,10,29	89,10,29
58	20 6 1/8	4 3 7/8	16 2 1/4	89,10,29	89,10,29
59	20 3 3/8	4 3 5/16	16 1/16	89,10,29	89,10,29
60	20 6 1/8	4 3 7/8	16 2 1/4	89,10,29	89,10,29
61	20 3 3/8	4 3 5/16	16 1/16	89,10,29	89,10,29
62	20 6 1/8	4 3 7/8	16 2 1/4	89,10,29	89,10,29
63	20 3 3/8	4 3 5/16	16 1/16	89,10,29	89,10,29
64	20 6 1/8	4 3 7/8	16 2 1/4	89,10,29	89,10,29
65	20 3 3/8	4 3 5/16	16 1/16	89,10,29	89,10,29
66	20 6 1/8	4 3 7/8	16 2 1/4	89,10,29	89,10,29
67	20 3 3/8	4 3 5/16	16 1/16	89,10,29	89,10,29
68	20 6 1/8	4 3 7/8	16 2 1/4	89,10,29	89,10,29
69	20 3 3/8	4 3 5/16	16 1/16	89,10,29	89,10,29
70	20 6 1/8	4 3 7/8	16 2 1/4	89,10,29	89,10,29
71	20 3 3/8	4 3 5/16	16 1/16	89,10,29	89,10,29
72	20 6 1/8	4 3 7/8	16 2 1/4	89,10,29	89,10,29
73	20 3 3/8	4 3 5/16	16 1/16	89,10,29	89,10,29
74	20 6 1/8	4 3 7/8	16 2 1/4	89,10,29	89,10,29
75	18 1 1/4	4 3 5/16	13 9 15/16	89,15,48	89,12,57
76	18 3 13/16	4 3 7/8	13 11 15/16	89,15,47	89,12,58

FL. BM	L	F1	F2	F3	A1	A2	A3	A4
36	24	8	8	8	90,00,00	90,00,00	90,00,00	90,00,00
37	24	8	8	8	90,00,00	90,00,00	90,00,00	90,00,00
38	24	8	8	8	90,00,00	89,46,45	89,46,40	90,00,00
39	24	7 11 3/8	8	8 5/8	90,00,00	89,46,45	89,46,40	90,00,00
40	24	7 11 7/16	8	8 9/16	90,00,00	89,31,21	89,31,21	90,00,00
41	24	7 11 7/16	8	8 9/16	90,00,00	89,31,21	89,31,21	90,00,00
42	24	7 11 7/16	8	8 9/16	90,00,00	89,31,21	89,31,21	90,00,00
43	24	7 11 7/16	8	8 9/16	90,00,00	89,31,21	89,31,21	90,00,00
44	24	7 11 7/16	8	8 9/16	90,00,00	89,31,21	89,31,21	90,00,00
45	24	7 11 7/16	8	8 9/16	90,00,00	89,31,21	89,31,21	90,00,00
46	24	7 11 7/16	8	8 9/16	90,00,00	89,31,21	89,31,21	90,00,00
47	24	7 11 7/16	8	8 9/16	90,00,00	89,31,21	89,31,21	90,00,00
48	24	7 11 7/16	8	8 9/16	90,00,00	89,31,21	89,31,21	90,00,00
49	24	7 11 7/16	8	8 9/16	90,00,00	89,31,21	89,31,21	90,00,00
50	24	7 11 7/16	8	8 9/16	90,00,00	89,31,21	89,31,21	90,00,00
51	24	7 11 7/16	8	8 9/16	90,00,00	89,31,21	89,31,21	90,00,00
52	24	7 11 7/16	8	8 9/16	90,00,00	89,31,21	89,31,21	90,00,00
53	24	7 11 1/2	8	8 1/2	90,00,00	89,36,40	89,36,39	90,00,00
54	24	8	8	8	90,02,53	90,47,03	90,47,02	90,02,47

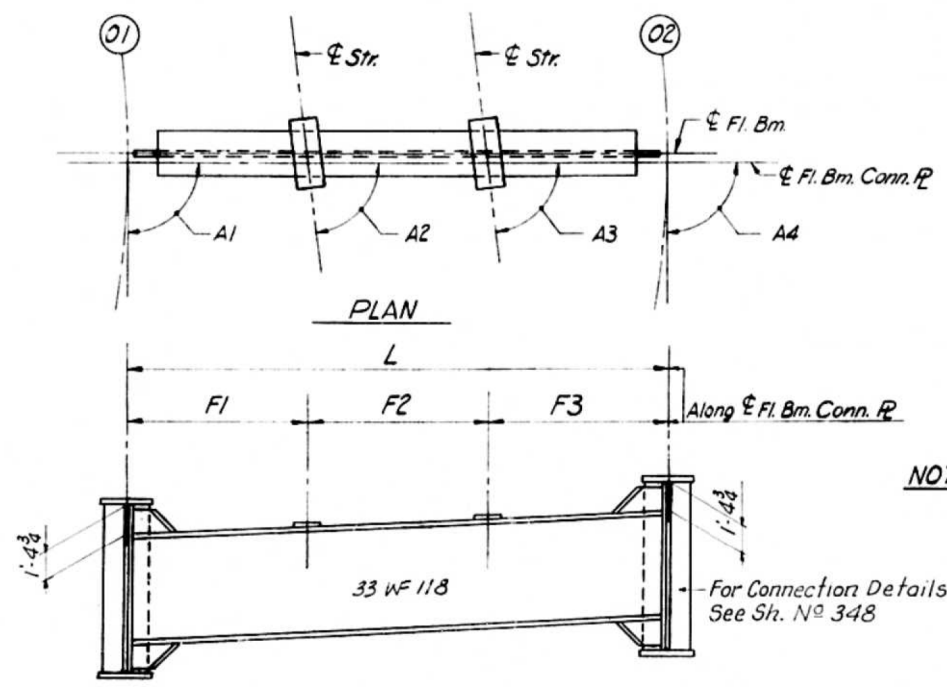


ELEVATION END FL. BMS. 38 & 54
 Note: For Elevation of End Fl. Bms 36 & 37 see Sheet No. 298

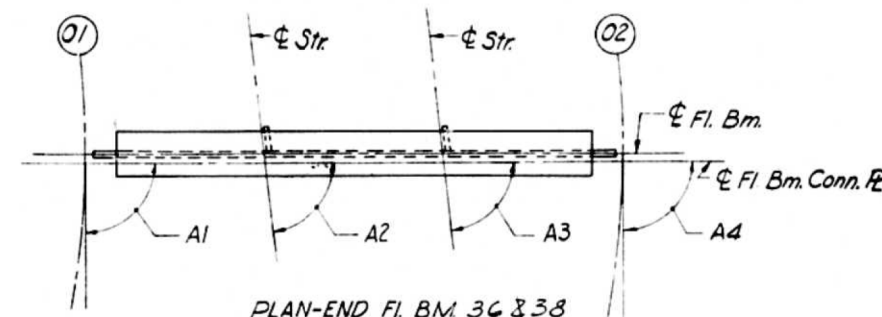
FOR INFORMATION ONLY



TYPICAL STRINGER



ELEVATION INTERIOR FLOOR BEAM 39 THRU 53
 LOOKING TOWARDS INCREASING STATION



PLAN-END FL. BM. 36 & 38
 END FLOOR BEAM 36-37-38 & 54
 LOOKING TOWARDS INCREASING STATION

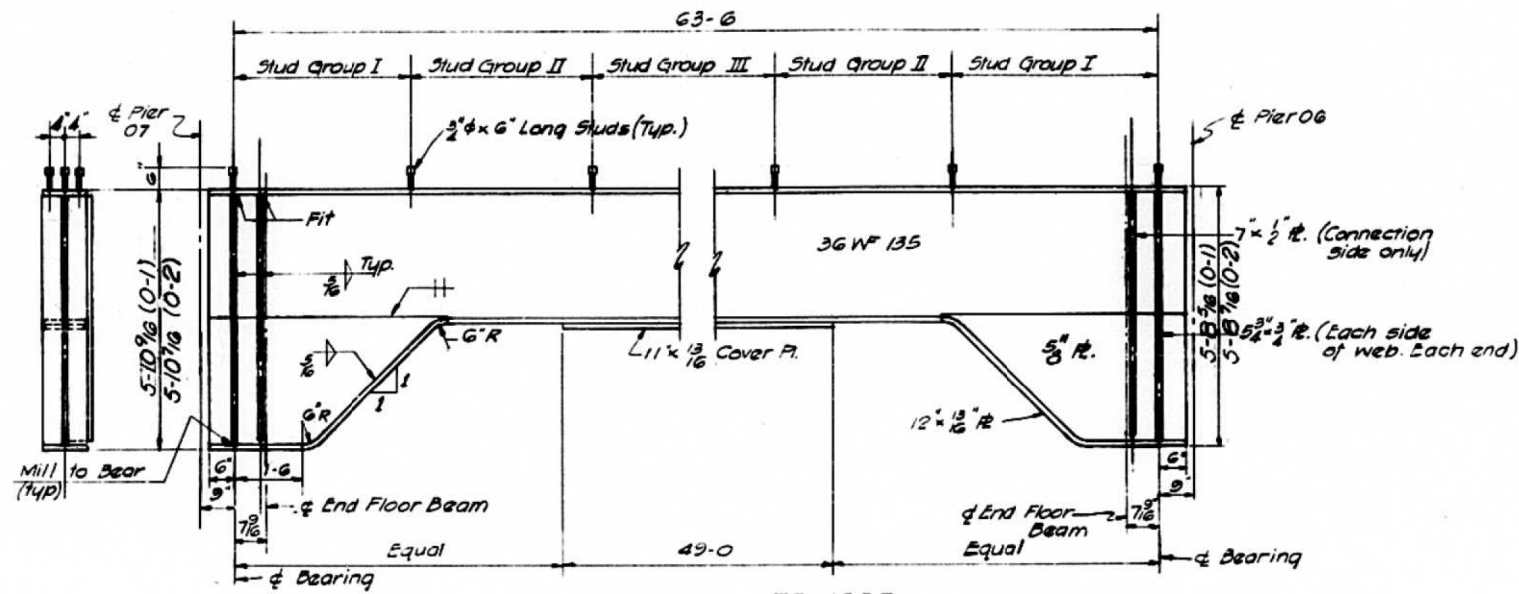
NOTES: Length L of Stringers and Fl. Bms. is correct as given in the table except the increment lengths are given to the nearest '16".
 All dimensions are in the horizontal plane.
 For Connection Plate Det. see Sh. No. 348

DESIGNED BY R.M.R.
 DRAWN BY JK
 CHECKED BY A.T.
 APPROVED BY K.A.

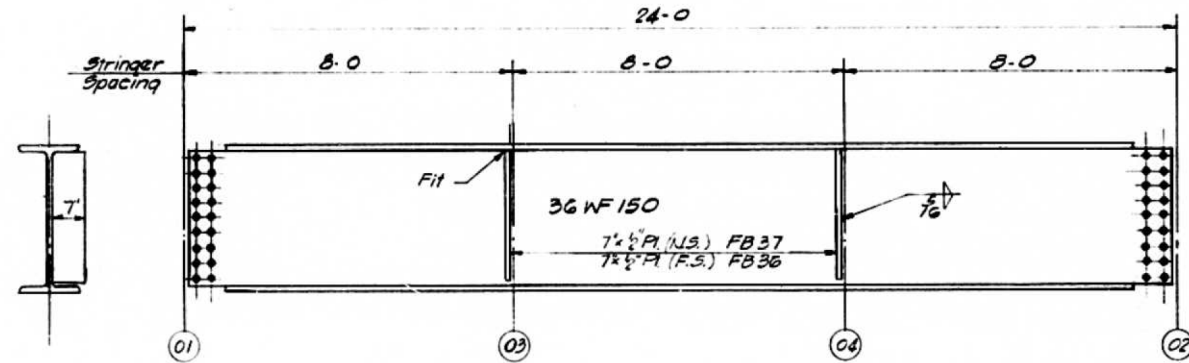
STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS & BLDGS.
 DIVISION OF HIGHWAYS
 STRINGER AND FLOOR BEAM
 SCHEDULE
 SPANS 07 THRU 010
 POPLAR STREET BRIDGE APPROACHES
 RAMP "O"

F.A.I. RT. 70 ST. CLAIR CO. SECTION B2-3HVF & E-1
 H. W. LOCHNER, INC. ENGINEERS

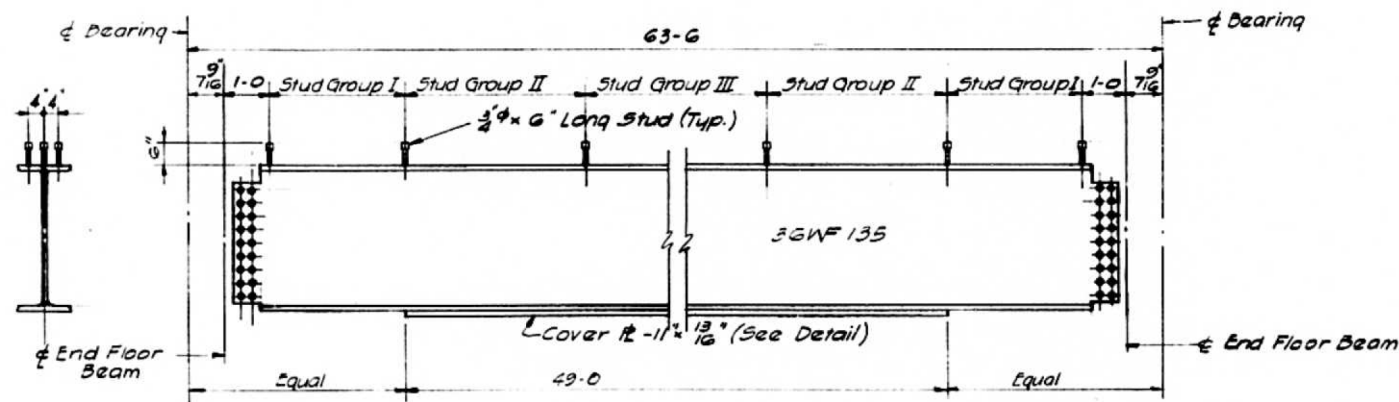
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVFB-E-1	ST. CLAIR	247	168
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	



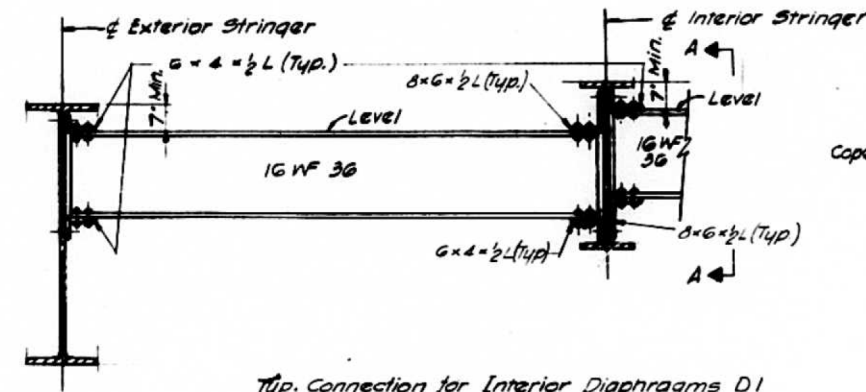
EXTERIOR STRINGER
(01 & 02)



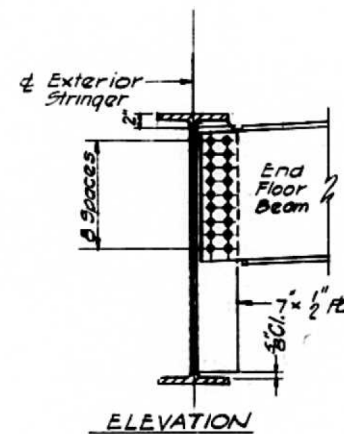
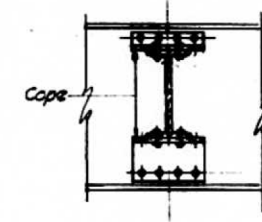
END FLOOR BEAM
(FB 36 & FB 37)



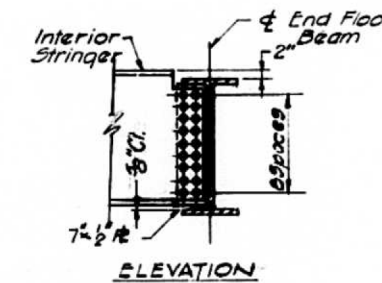
INTERIOR STRINGER
(03 & 04)



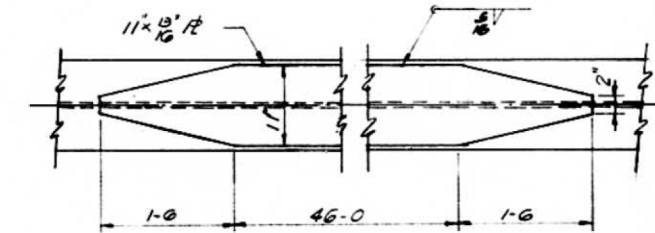
Typ. Connection for Interior Diaphragms D1
DIAPHRAGM DETAILS



ELEVATION

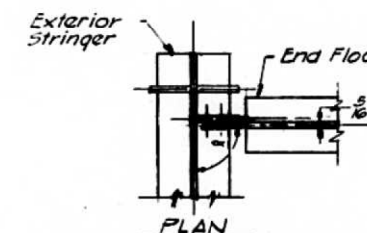


ELEVATION



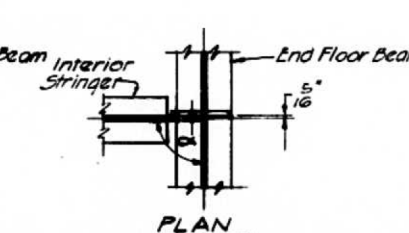
COVER PLATE DETAIL

NOTE:
Clip all stiffeners and connection plates 3/4 x 3/4 at corners to clear welding of flange to beam to clear beam fillets.



PLAN

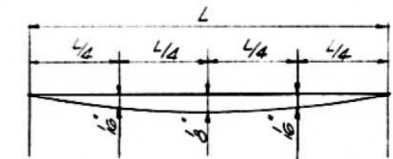
END FLOOR BEAM TO EXTERIOR STRINGER CONNECTION



PLAN

INTERIOR STRINGER TO END FLOOR BEAM CONNECTION

NOTE: For Angle see Floor Beam Schedule Sheet No. 296



DEAD LOAD DEFLECTION DIAGRAM FOR END FLOOR BEAM
(Wt. of Concrete Only)

NOTES:
For Expansion Device Detail see Sheet No. 364
For Framing Plan see Sheet No. 295

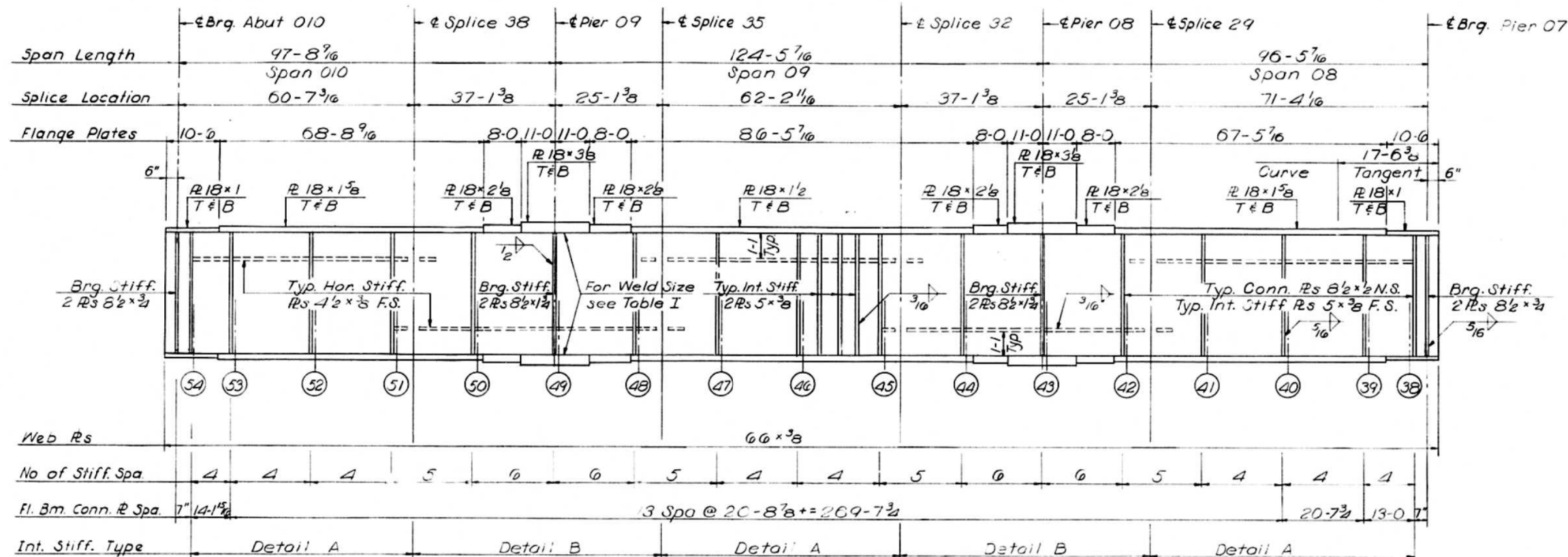
SHEAR CONNECTOR TABLE			
BEAM	GROUP I	GROUP II	GROUP III
01 & 02	32 @ 4 1/2"	23 @ 6 1/2"	19 @ 9 1/2"
03 & 04	28 @ 4 1/2"	22 @ 6 1/2"	20 @ 9 1/2"

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
STEEL DETAILS
SPAN 07
POPLAR STREET BRIDGE APPROACHES
RAMP "D"
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVFB-E-1
H. W. LOCHNER, INC.
ENGINEERS
SHEET 168

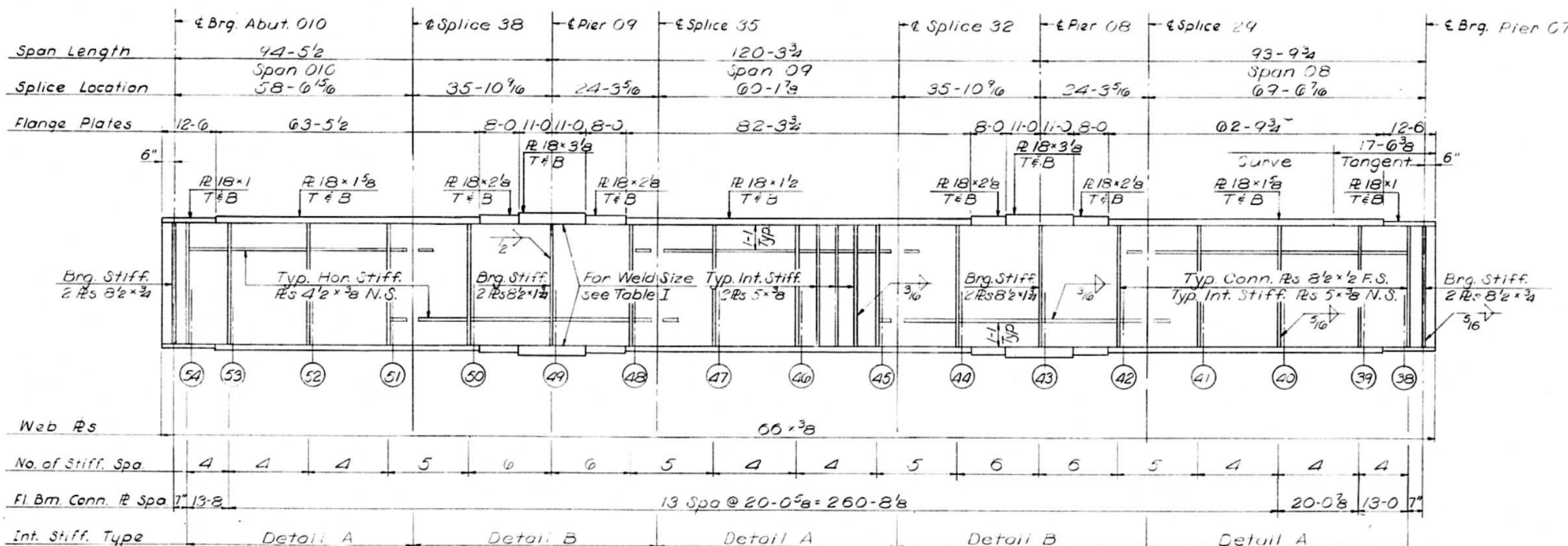
DESIGNED BY HJ
DRAWN BY TJ
CHECKED BY LW
APPROVED BY KA

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HV B E-1	ST. CLAIR	247	169
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	



GIRDER 02
SPANS 08 thru 010

FOR INFORMATION ONLY



GIRDER 01
SPANS 08 thru 010

Notes:
All Longitudinal Dimensions shown are given along ϵ of Web. See Sh. No. 295
All Bearing Stiffeners and Connection Plates to be vertical.
For Splice, Stiffener, Connection Plate Details and Table I see Sh. Nos. 34B, 349 and 350.

DESIGNED BY R.M.R.
DRAWN BY D.C.H.
CHECKED BY A.T.
APPROVED BY K.A.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS

GIRDERS 01 AND 02
SPANS 08 THRU 00
POPLAR STREET BRIDGE APPROACHES
RAMP "0"

F.A.I. RT 70 ST. CLAIR CO. SECTION 82-3HV B E-1

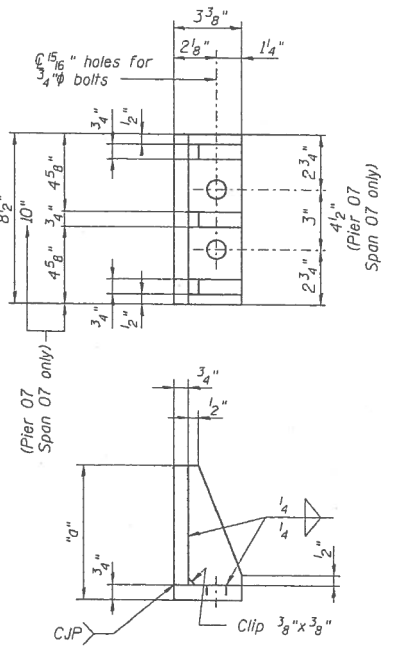
H. W. LOCHNER, INC.
ENGINEERS

SHEET NO. 169

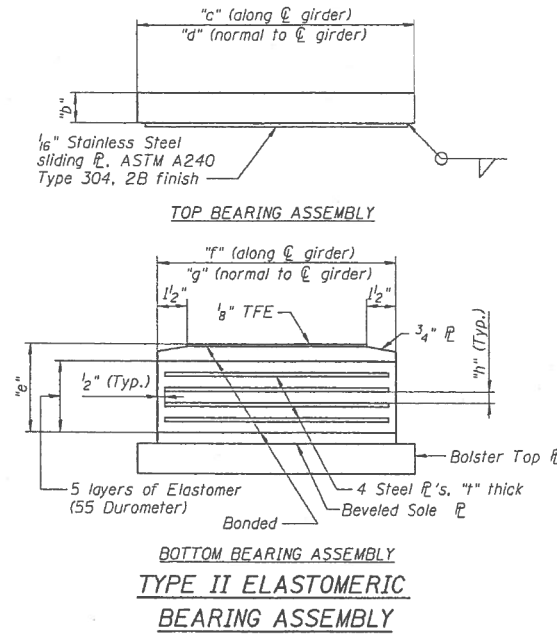
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET	SHEET NO. 45
FAI-70	#	St. Clair	388	195	48 SHEETS
FED. ROAD DIST. NO. 7	ALPHABET	FED. AID PROJECT			

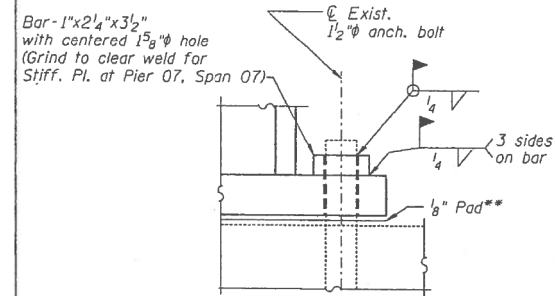
(82-3HVB-2R-1)-2



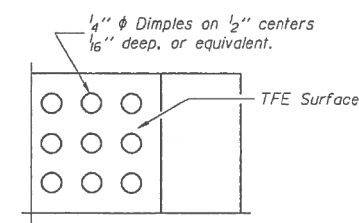
SIDE RETAINER



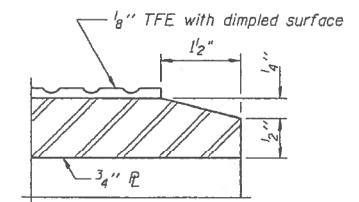
TYPE II ELASTOMERIC BEARING ASSEMBLY



DETAIL 1



PLAN-TFE SURFACE

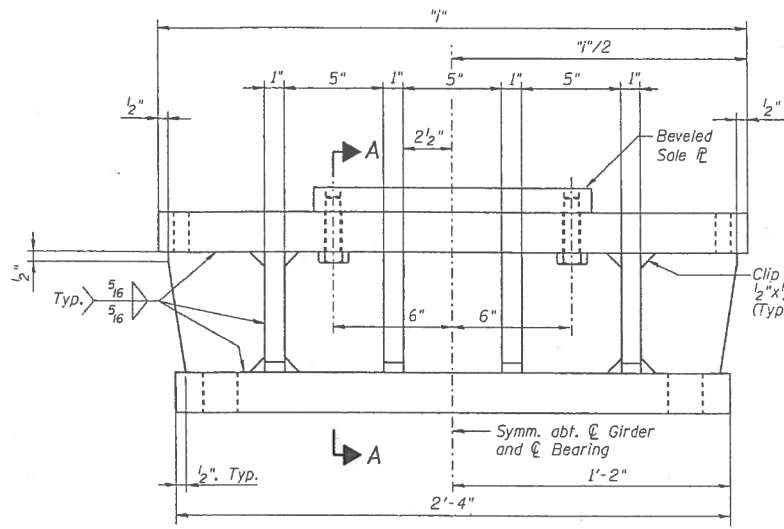


SECTION THRU TFE

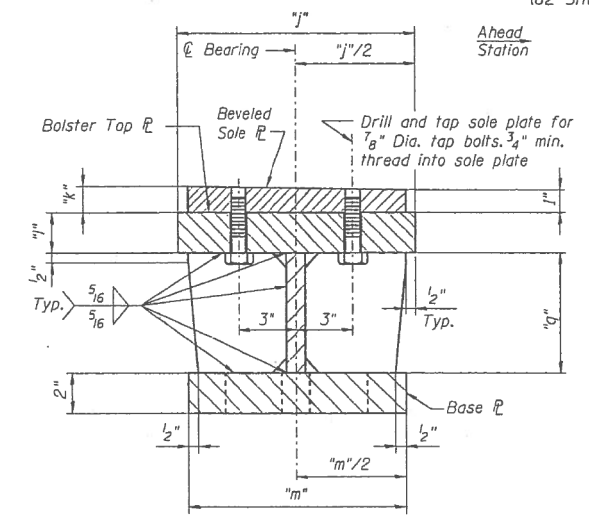
Note: The 1/8" TFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces. Bonding of 1/8" TFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

DESIGNED	D. James
CHECKED	R. Victor
DRAWN	M. King
CHECKED	R. Victor

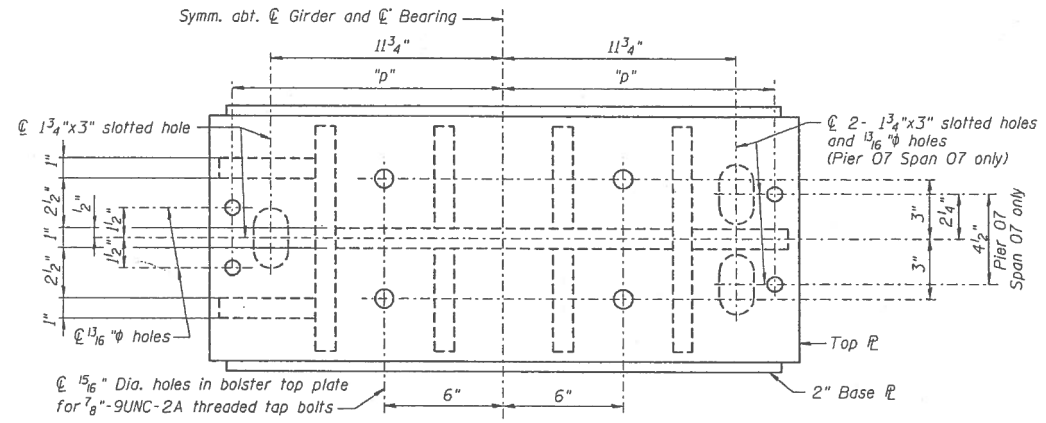
PREPARED BY:
JACOBS CIVIL INC.
ST. LOUIS, MO



BOLSTER ELEVATION



SECTION A-A



BOLSTER PLAN

Pier / Span	"a"	"b"	"c"	"d"	"e"	"f"	"g"	"h"	"i"
Pier 06 Span 06	8 3/8"	1 3/4"	1'-0"	1'-8"	4 7/16"	1'-0"	1'-2"	9/16"	2'-3"
Pier 06 Span 07	9 1/2"	2 3/4"	11 3/8"	1'-11"	4 7/16"	1'-0"	1'-9"	9/16"	2'-6"
Pier 07 Span 07	9 9/8"	3 3/8"	9 3/8"	2'-4"	3 9/16"	10"	2'-2"	7/16"	2'-11"
Pier 07 Span 08	8 3/4"	1 7/8"	1'-0"	1'-8"	4 7/16"	1'-0"	1'-4"	9/16"	2'-3"
Pier / Span	"j"	"k"	"l"	"m"	"p"	"q"	"r"		
Pier 06 Span 06	1'-0 1/4"	1 5/8"	1 5/8"	1'-0 1/4"	1'-0 1/4"	4"±	3/16"		
Pier 06 Span 07	11 3/8"	1 1/16"	1"	1'-0 1/4"	1'-1 3/4"	3 5/8"±	3/16"		
Pier 07 Span 07	10 1/4"	1 9/16"	1"	9"	1'-4 1/4"	3 7/8"±	1/8"		
Pier 07 Span 08	1'-0 3/4"	1 13/16"	1 3/8"	1'-0 3/4"	1'-0 1/4"	4"±	3/16"		

NOTES

See notes on sheet 44.
Cost of Bolsters, Beveled Plates, and Side Retainers shall be included in the Lump Sum of "Furnishing and Erecting Structural Steel".

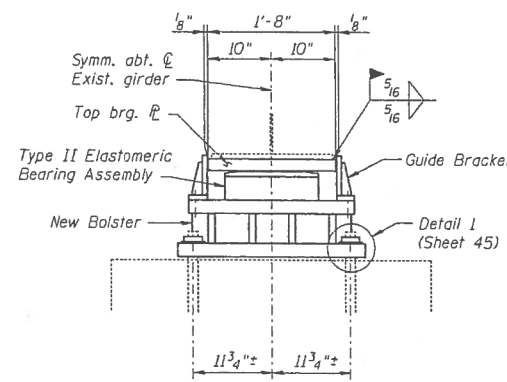
FOR INFORMATION ONLY

REHABILITATION FOR FAI 55/70 COMPLEX
RAMP 0 - STRUCTURE NO. 082-0201
BEARINGS
(FAI-70) ST. CLAIR CO.

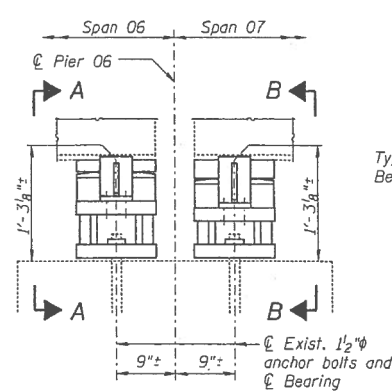
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
FAI-70	#	St. Clair	388	194
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

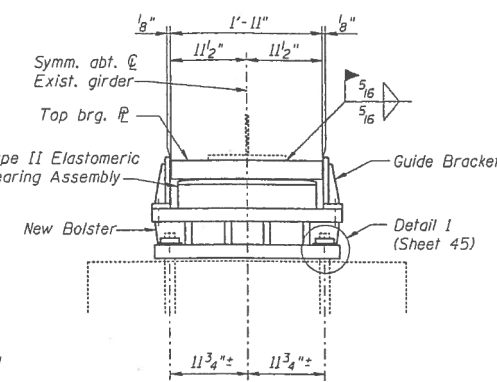
82-3HVB-2R-1-2
48 SHEETS



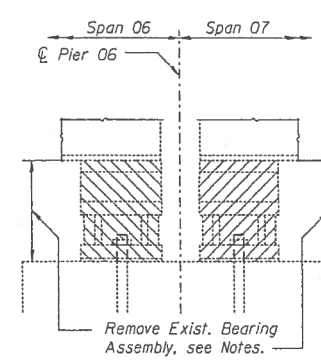
SECTION A-A



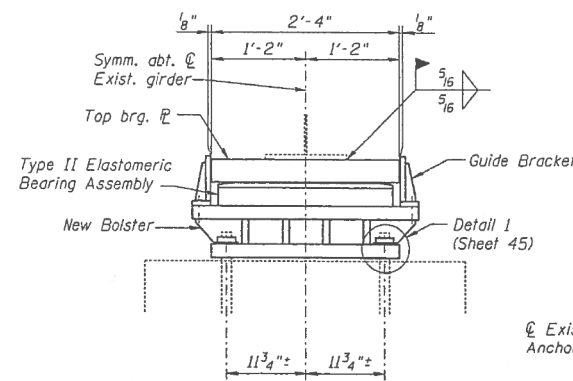
ELEVATION AT PIER 06



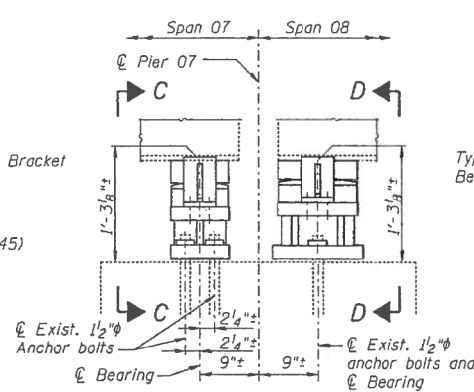
SECTION B-B



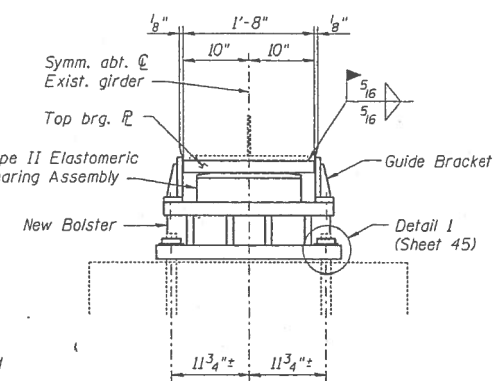
BEARING REMOVAL AT PIER 06



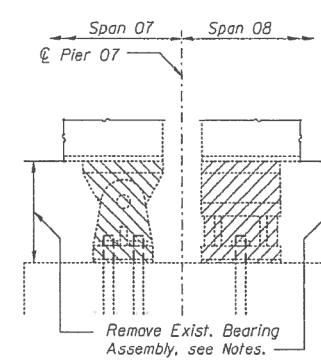
SECTION C-C



ELEVATION AT PIER 07



SECTION D-D



BEARING REMOVAL AT PIER 07

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type II	Each	8

NOTES

Minimum Jack Capacity:
1. The capacity of the jacks used to lift the bridge shall be at least 50% to 100% greater than the theoretical jacking loads shown in the table.

Bearing Demolition:
1. After jacking the structure off the bearing assembly, remove existing anchor bolt nuts and/or any welded plate washers that secure the existing bearing assembly to the anchor bolt. Existing anchor bolts are to remain intact to a minimum projection of 4" above top of concrete. Contractor shall verify soundness of existing anchor bolts prior to installation of new bearing assembly. Regrout in place if necessary.
2. All portions of existing bearing assemblies, including bolsters, sole plates and shims, shall be removed.

Bearing Installation:
1. Bearings to be replaced are for both girders at locations shown.
2. If the portion of the bottom flange above the new bearing is bent, the flange should be straightened using continuous pressure applied to both faces of the plate simultaneously before installation of the new bearing.
3. Top of column concrete shall be leveled using an epoxy grout prior to bearing installation.
4. Shim as required between top of leveled column and bottom of bolster.
5. Area between retainer bars and elastomeric bearing to be filled with an Elastomeric Polymer type sealer, 1" thick, and sloped to drain.
6. Existing grounding wires to be re-attached after bearing replacement is complete.

Span	Pier	THEORETICAL JACKING LOADS	
		Dead Load	Live Load + Impact
06	06	83 k	57 k
07	06	125 k	90 k
07	07	127 k	90 k
08	07	94 k	59 k

Note: The theoretical jacking loads listed above were taken from the design drawings for the original structure. See Special Provision "Jack and Remove Existing Bearings" for requirements and limitations for jacking the structure.

FOR INFORMATION ONLY

DESIGNED	D. James
CHECKED	R. Victor
DRAWN	M. King
CHECKED	R. Victor

PREPARED BY:
JACOBS CIVIL INC.
ST. LOUIS, MO

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REHABILITATION FOR FAI 55/70 COMPLEX
RAMP 0 - STRUCTURE NO. 082-0201
BEARINGS
(FAI-70) ST. CLAIR CO.

FILE NAME =	USER NAME = smithma	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SN 082-0201 EXISTING STRUCTURE DETAILS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -		SCALE:	82-3HVB-2-P	ST. CLAIR	18	18	
	PLOT DATE = 2/10/2017	DATE -	REVISED -		SHEET OF SHEETS	FAI 70 / FAP 312	CONTRACT NO. 76G15			
					STA. TO STA.	ILLINOIS FED. AID PROJECT				