

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	82-3HVB-2-BP	ST. CLAIR	22	1
ILLINOIS		CONTRACT NO. 76L42		

D-98-053-18

FOR INDEX OF SHEETS, SEE SHEET NO. 2

TRAFFIC DATA (SN 082-0203)

2017 ADT = 3650

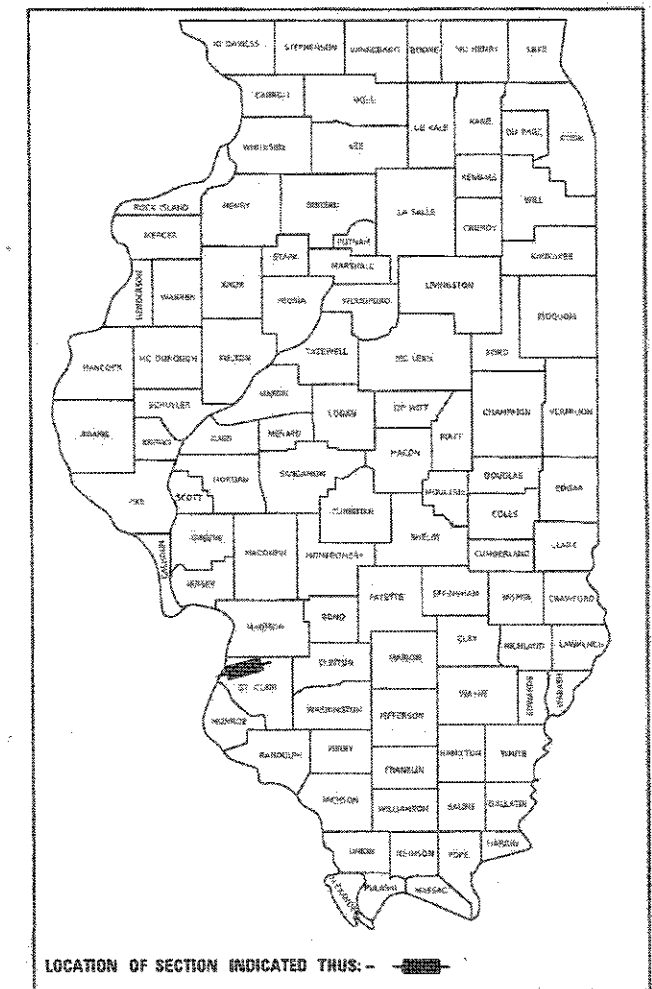
2037 ADT = 4050

SU = 3.4% MU = 13.0%

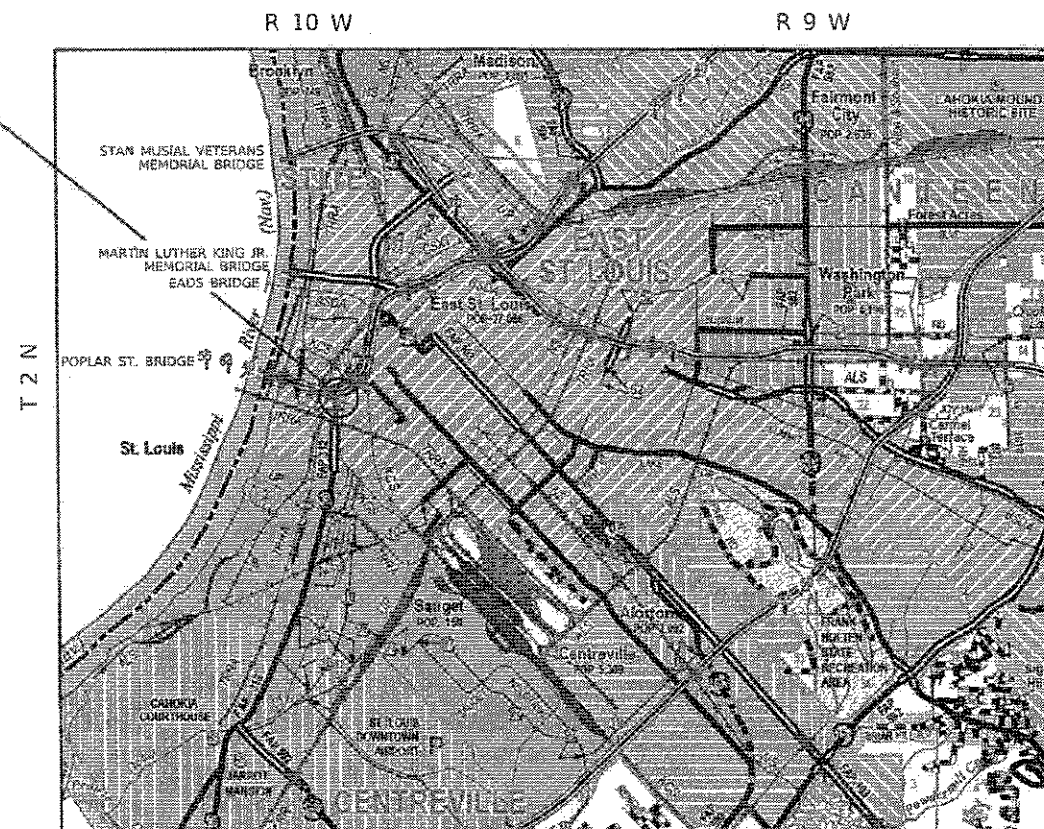
PROPOSED HIGHWAY PLANS

FAP ROUTE 312 (IL 3)
SECTION 82-3HVB-2-BP
PROJECT NHPP-X17C(615)
BRIDGE PAINTING
ST. CLAIR COUNTY

C-98-195-18

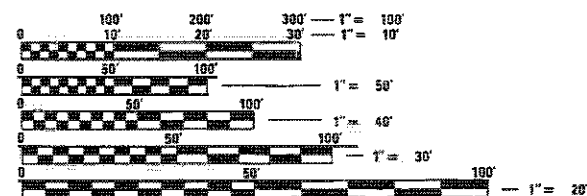


PROJECT LOCATION
POPLAR STREET COMPLEX
IN EAST ST. LOUIS
SN 082-0203
RAMP P FROM
NB IL 3 TO EB I-55/64 CD
STA. 54 + 72.04
LATITUDE: 38.61535
LONGITUDE: -90.16970



NOT TO SCALE

GROSS LENGTH = 1387.00 FT. = 0.263 MILE
NET LENGTH = 1387.00 FT. = 0.263 MILE



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

PROJECT ENGINEER: HERVE GELIN (618) 346-3179
PROJECT MANAGER: CECIL DOWNING (618) 346-3145

CONTRACT NO. 76L42

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED Dec 15, 2017
Jeffrey Z. K...
REGIONAL ENGINEER

Feb 2, 2018
...
ENGINEER OF DESIGN AND ENVIRONMENT

...
DIRECTOR OF PROGRAM DEVELOPMENT

2

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

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- 2 INDEX OF SHEETS, GENERAL NOTES, HIGHWAY STANDARDS, COMMITMENTS AND DETAILED LOCATION MAP
- 3 SUMMARY OF QUANTITIES
- 4 BRIDGE PAINTING DETAIL SN 082-0203
- 5-22 EXISTING STRUCTURE DETAILS SN 082-0203 (FOR INFORMATION ONLY)

HIGHWAY STANDARDS

000001-06
001006

COMMITMENTS: NONE

GENERAL NOTES

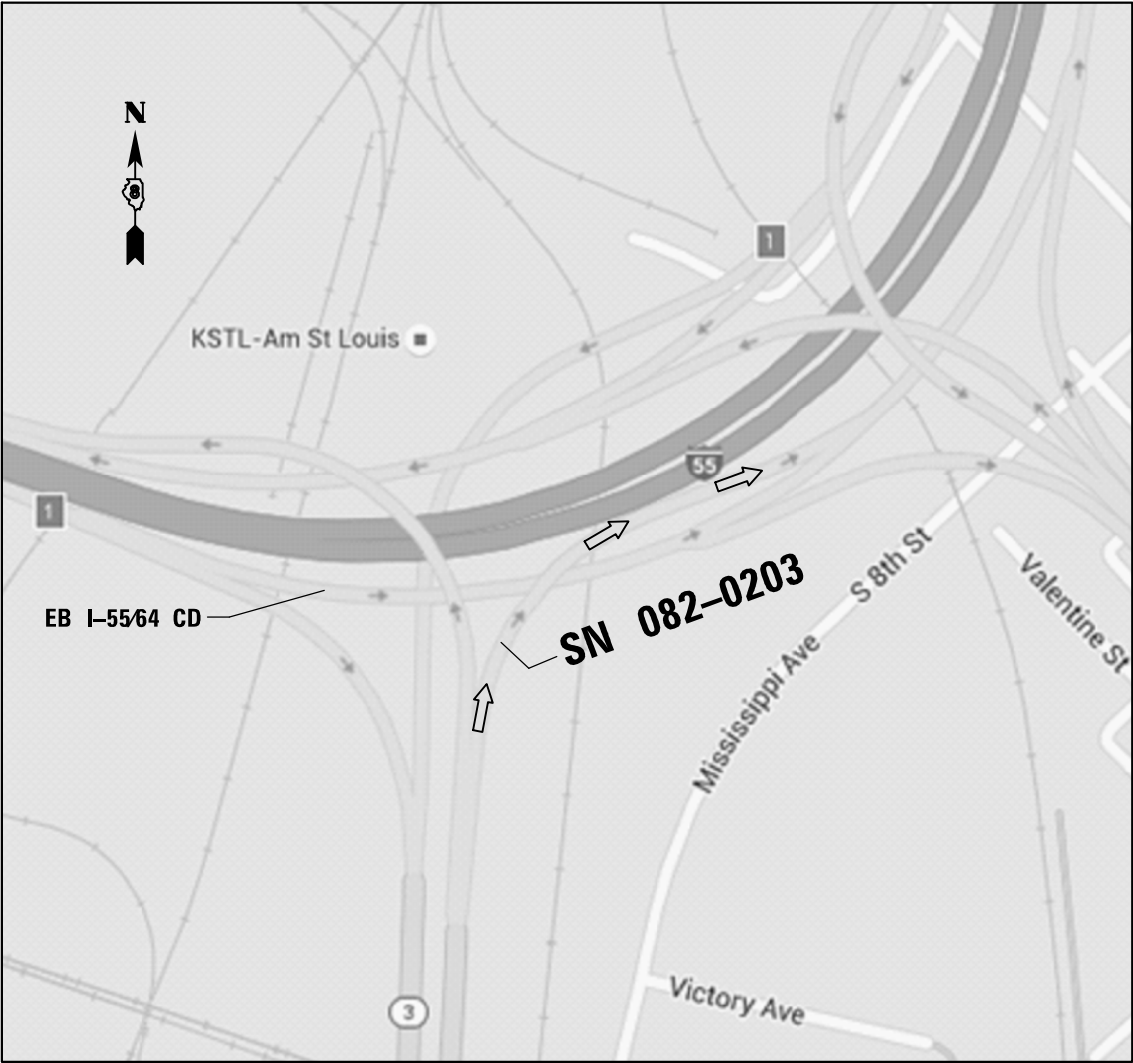
1. ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITIES WITHIN THE PROJECT AREA BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

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

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. 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 COURSEWORK (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.
4. ALL TURF AREAS DISTURBED BY THE CONTRACTOR SHALL BE SEEDED WITH THE APPROPRIATE EROSION CONTROL, AS DIRECTED BY THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.
5. REVISED 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."
6. 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.

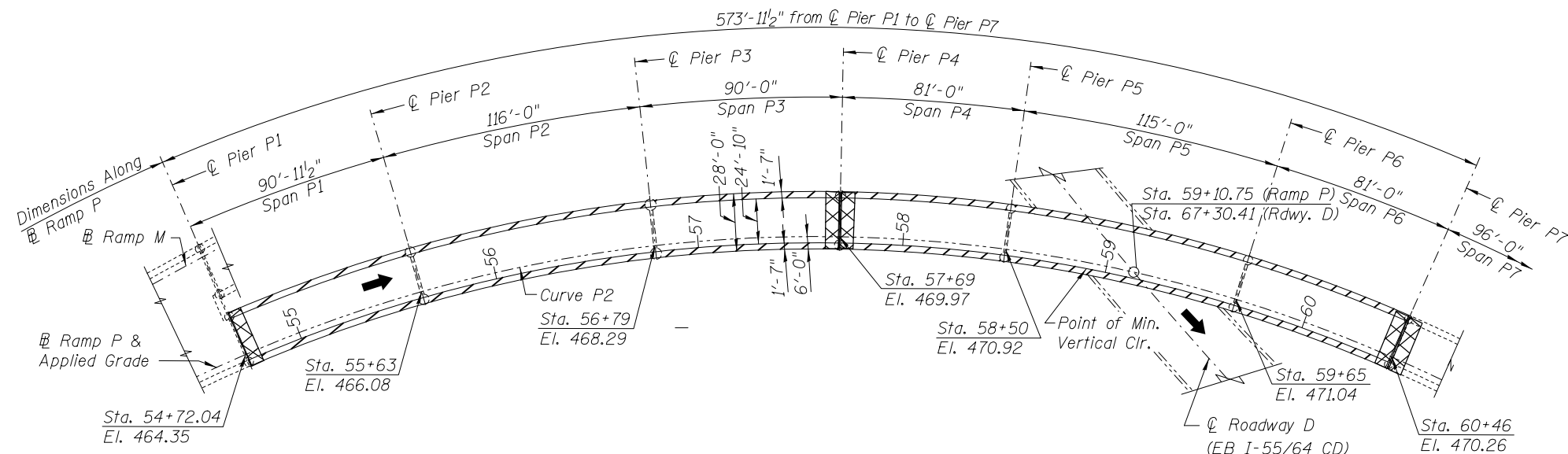
DETAILED LOCATION MAP



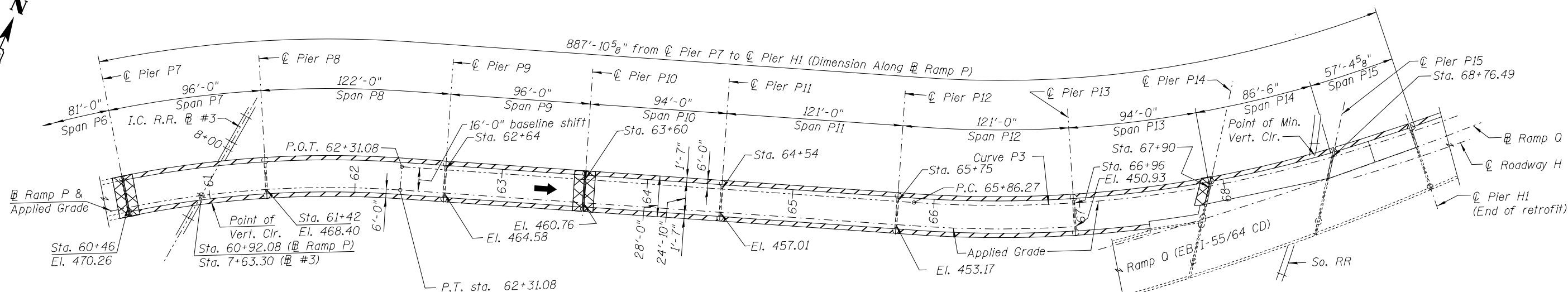
NOT TO SCALE

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	USER NAME = smithma	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, GENERAL NOTES, HIGHWAY STANDARDS, COMMITMENTS AND DETAILED LOCATION MAP	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
		DRAWN -	REVISED -			312	82-3HVB-2-BP	ST. CLAIR	22	2		
	PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -			CONTRACT NO. 76L42						
	PLOT DATE = 12/15/2017	DATE -	REVISED -									
						SCALE:	SHEET 1	OF 1	SHEETS	STA.	TO STA.	
							ILLINOIS	FED. AID PROJECT				



PLAN
Developed length along B Ramp P

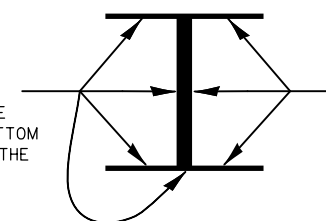


1. A MINIMUM OF THREE AIR MONITORS WILL BE REQUIRED TO MONITOR ABRASIVE BLASTING OPERATIONS AT THIS SITE. SEE SPECIAL PROVISION FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES".
2. CLEANING AND PAINTING OF THE EXISTING STEEL AND BEARINGS SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "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-OZ/E/U. THE COLOR OF THE FINISH COAT FOR ALL STEEL SURFACES SHALL BE GRAY, MUNSELL NO. 5B 7/1.

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



FASCIA BEAM CLEANING AND
PAINTING AREAS, SSPC-SP 10



FOR THE DESIGNATED AREAS
FROM PIER 1 TO PIER 15 ON
SN 082-0203, CLEANING AND
PAINTING SHALL INCLUDE THE
EXTERIOR SURFACES AND BOTTOM
OF THE BOTTOM FLANGE OF THE
FASCIA GIRDERS

IN ADDITION, THE INTERIOR
SURFACES OF THE EASTERN
- FASCIA FROM P10 TO P13
SHALL BE CLEANED AND
PAINTED

USER NAME = smithma	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 12/15/2017	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BRIDGE PAINTING DETAIL SN 082-0203

SCALE:	SHEET 1	OF 1	SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	82-3HVB-2-BP	ST. CLAIR	22	4
		CONTRACT NO. 76L42		
		ILLINOIS FED. AID PROJECT		

MODEL: Default
FILE NAME: new\w\084FINTEG_Illinois\new\p\w\084Data\CAD\CADsheets\08761_42-shi-detaile.doc

Benchmark: #26 Elev. 404.396 X-cut in N.W. corner of concrete abutment at center pier of Ill. Central R.R. Bridge over Ill. Rte. 3.

Existing Structure: SN 082-0203 was built as F.A.I. Route 70 Section (82-3HVB-2R-1)-2 in 1967. The roadway is striped for one lane. The Superstructure consists of three 3 span continuous units and one 4 span continuous unit with two welded steel plate girders, plate girder floor beams, and non-composite R.C. slab, and one simple span with composite slab on rolled girders. The Substructure is R.C. piers on R.C. piles. Existing structure shall be rehabilitated with seismic retrofit and redundancy retrofit. Traffic shall be maintained during the rehabilitation.

Salvage: None

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	25TH	23RD	SHEET NO. 1
FAI-70	*	St. Clair	388	239	51 SHEETS
FED. AID PROJECT					

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

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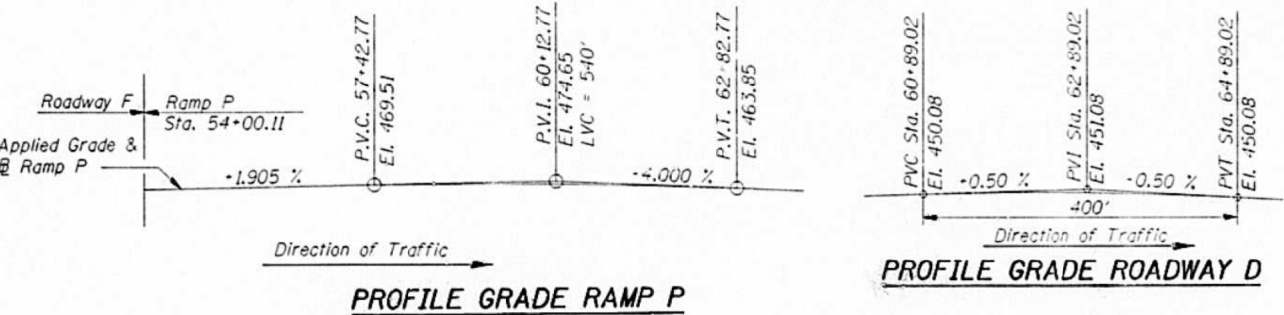
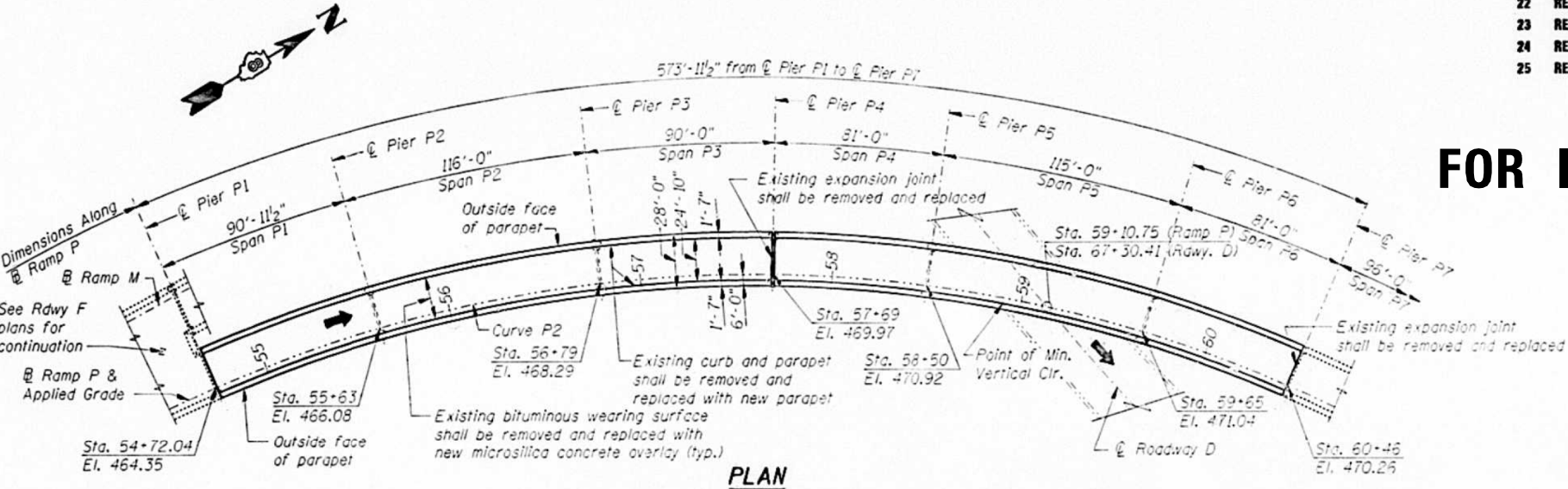
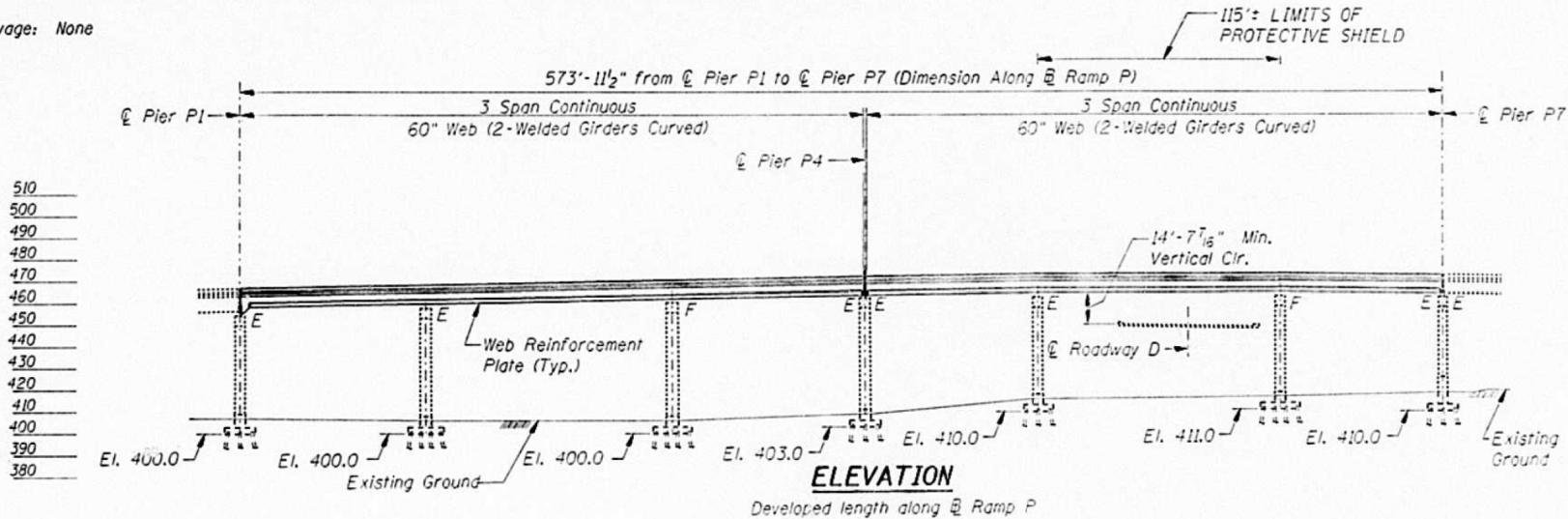
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DESIGNED	M. Capron
CHECKED	A. Amidi
DRAWN	M. King
CHECKED	D. James

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

JOHN E. FINKE, S.E.
STRUCTURAL/SEISMIC RETROFIT

DESIGN SPECIFICATIONS:

1996 AASHTO with 1997 thru 2002 Interims.
FHWA-RD-94-052 "Seismic Retrofitting Manual
for Highway Bridges", 1995

SEISMIC DATA:

Seismic Performance Category (SPC) = B
Bedrock Acceleration Coefficient (A) = 0.12
Site Coefficient (S) = 1.0

DESIGN STRESSES:

New Construction:

Reinforced concrete: $f'_c = 3,500$ psi
Reinforcement bars: $f_y = 60,000$ psi
Structural steel: $f_y = 70,000$ psi (A270, Grade 70) Web Reinforcement Plate
 $f_y = 50,000$ psi (A270, Grade 50) All other locations

Existing Structure:

Reinforced concrete: $f'_c = 1,400$ psi $n = 10$
Structural Steel: $f_s = 20,000$ psi

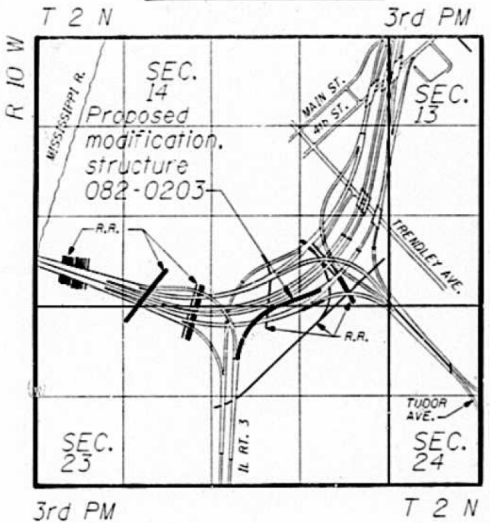
LANCE PETERMAN, S.E.
REDUNDANCY RETROFIT

FOR INFORMATION ONLY

NOTES

Profile grade elevations are to top of original slab
and do not take into account wearing surface
or overlay thickness.

LOCATION SKETCH



REHABILITATION FOR FAI 55/70 COMPLEX
RAMP P - STRUCTURE NO. 082-0203
GENERAL PLAN AND ELEVATION
SPANS P1 THRU P6
STA. 54+72.04 THRU 60+46 (FAI-70) ST. CLAIR CO.

MODEL: Default
FILE: 82-3HVB-2R-1-2-01.dgn
PROJECT: 82-3HVB-2R-1-2-01.dgn
OFFICE: ST. LOUIS
DATE: 12/15/2017

USER NAME	= smithma	DESIGNED	-	REVISED	-
PLOT SCALE	= 100,000' / in.	DRAWN	-	REVISED	-
PLOT DATE	= 12/15/2017	CHECKED	-	REVISED	-
		DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE DETAILS SN 082-0203

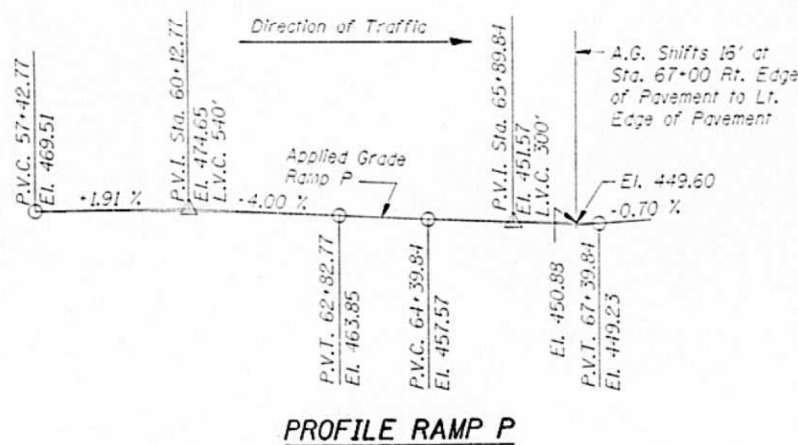
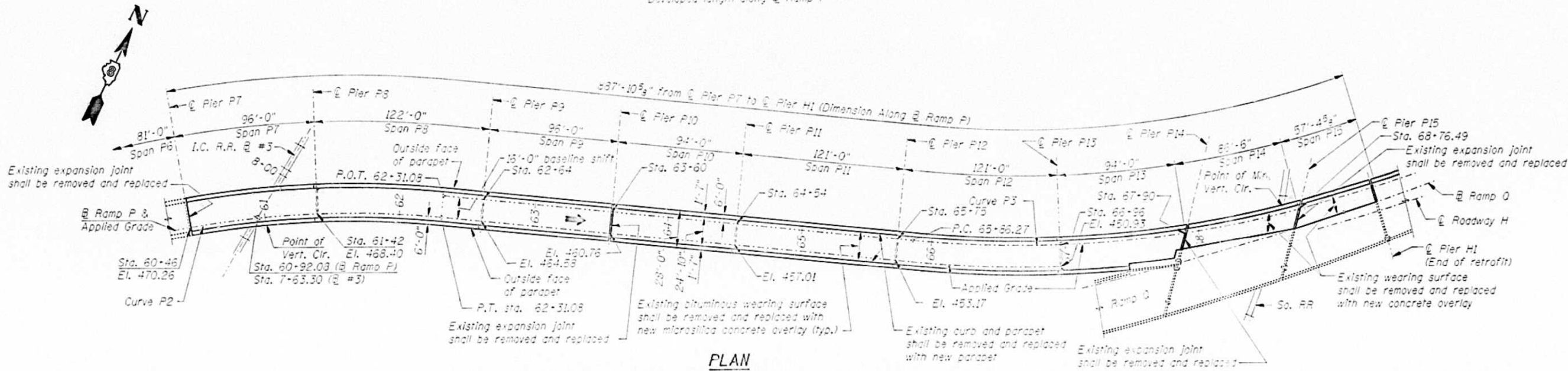
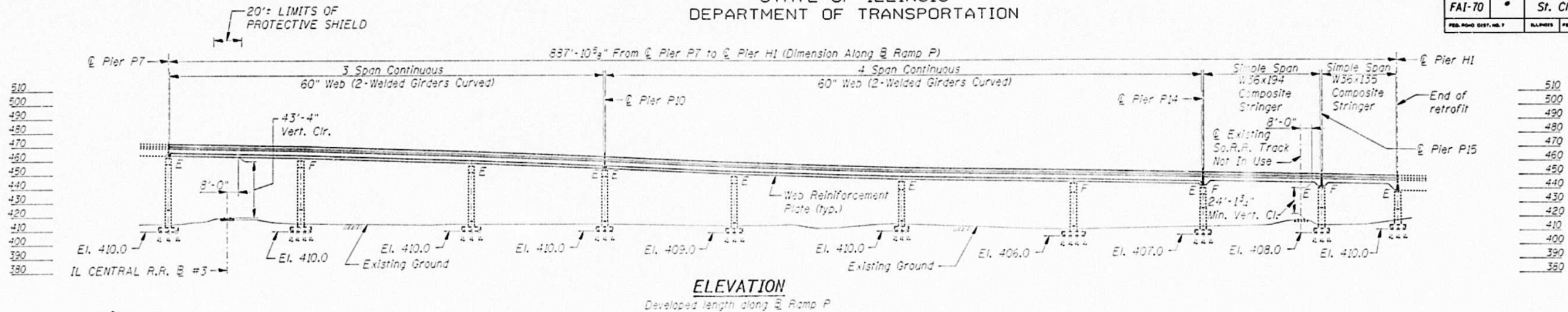
SCALE: SHEET 1 OF 18 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	82-3HVB-2-BP	ST. CLAIR	22	5
CONTRACT NO. 76L42				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
FAI-70	•	St. Clair	388	240
SHEET NO. 2				
51 SHEETS				

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



CURVE P3
P.I. = 67+33.03
 $\Delta = 21^{\circ}04'12''$
D = 7'01'15"
R = 816.00'
L = 300.03'
T = 151.76'
E = 13.99'
S = 3.00%

NOTE
Work this sheet with sheet 1.

FOR INFORMATION ONLY

DESIGNED	M. Capron
CHECKED	A. Amidi
DRAWN	M. King
CHECKED	D. James

PREPARED BY
JACOBS CIVIL INC.

REHABILITATION FOR FAI 55/70 COMPLEX
RAMP P - STRUCTURE NO. 082-0203
GENERAL PLAN AND ELEVATION
SPANS P7 THRU P15
STA. 60+46 THRU 68+76.49 (FAI-70) ST. CLAIR CO.

USER NAME	= smithma	DESIGNED	-	REVISED	-
PLOT SCALE	= 100,0000' / in.	DRAWN	-	REVISED	-
PLOT DATE	= 12/15/2017	CHECKED	-	REVISED	-
		DATE	-	REVISED	-

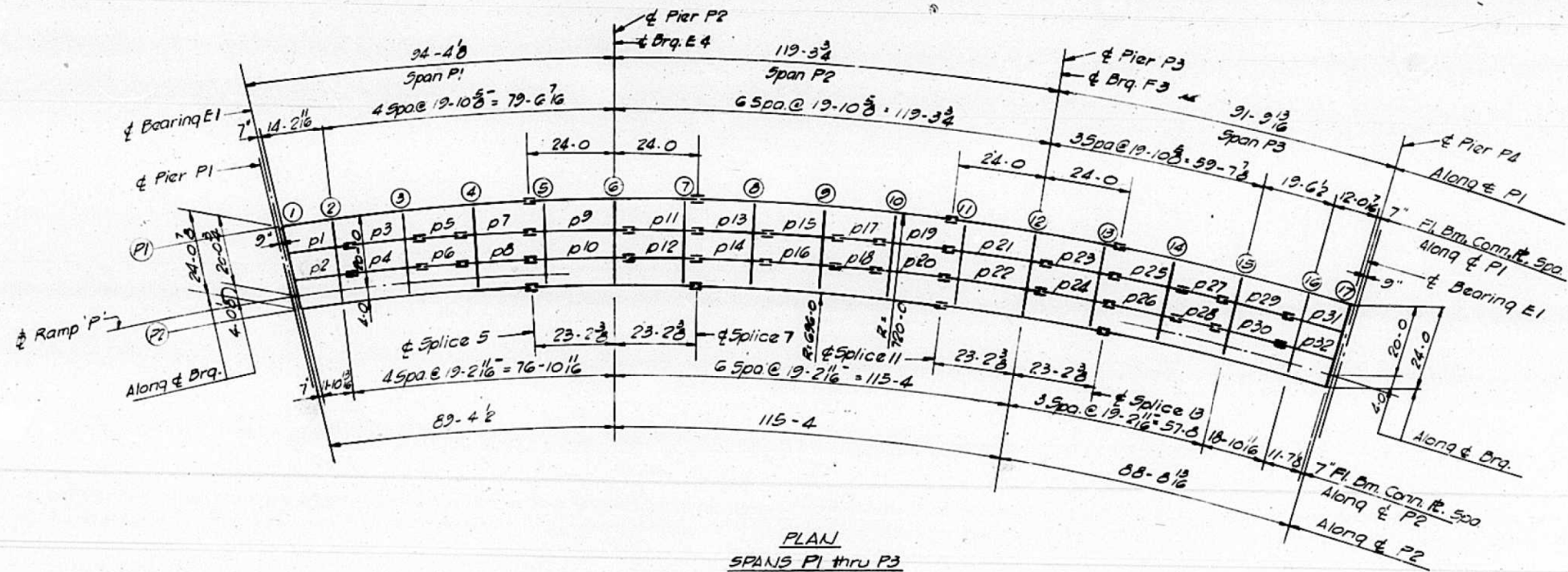
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE DETAILS SN 082-0203

SCALE: SHEET 2 OF 18 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	82-3HVB-2-BP	ST. CLAIR	22	6
CONTRACT NO. 76L42				
ILLINOIS FED. AID PROJECT				

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-2	ST. CLAIR	252	158
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	



PLAN
SPANS P1 thru P3

* ELEVATION TOP OF GIRDER WEB
* Lower elevations .042 ft.

	GIR. P1	GIR. P2	DIFF.
CL. BRG.	464.922	463.145	1.807
FLOOR BEAM 1	464.964	463.156	1.808
FLOOR BEAM 2	465.241	463.363	1.858
FLOOR BEAM 3	465.628	463.748	1.880
FLOOR BEAM 4	466.016	464.113	1.903
SPLICE 5	466.323	464.403	1.920
FLOOR BEAM 5	466.399	464.480	1.919
FLOOR BEAM 6	466.768	464.848	1.920
FLOOR BEAM 7	467.136	465.216	1.920
SPLICE 7	467.212	465.292	1.920
FLOOR BEAM 8	467.504	465.584	1.920
FLOOR BEAM 9	467.873	465.953	1.920
FLOOR BEAM 10	468.241	466.321	1.920
SPLICE 11	468.533	466.613	1.920
FLOOR BEAM 11	468.608	466.690	1.919
FLOOR BEAM 12	468.778	467.058	1.920
FLOOR BEAM 13	469.346	467.426	1.920
SPLICE 13	469.422	467.502	1.920
FLOOR BEAM 14	469.708	467.788	1.920
FLOOR BEAM 15	470.064	468.144	1.920
FLOOR BEAM 16	470.415	468.496	1.919
FLOOR BEAM 17	470.632	468.711	1.921
CL. BRG.	470.642	468.722	1.920

FOR INFORMATION ONLY

Note:
Dimensions locating Floor Beams are
given to the Floor Beam Conn. Plate
see Sketch Sheet No.52

BILL OF MATERIAL		
*Structural Steel	L.S.	Lump Sum

Weight of Bearing Assemblies with
Lead Plates and Anchor Bolts are
Included as Structural Steel
Wt. 6970 Lbs.

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

FRAMING PLAN
SPANS P1 THRU P3
POPLAR STREET BRIDGE APPROACHES
RAMP "P"

F.A.I. RT.-70 ST. CLAIR CO. SECTION 82-3HVB-2
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET
158 OF 147

DESIGNED BY AT
DRAWN BY VS
CHECKED BY SAB

USER NAME = smithma	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 12/15/2017	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE DETAILS SN 082-0203

SCALE: SHEET 3 OF 18 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	82-3HVB-2-BP	ST. CLAIR	22	7
CONTRACT NO. 76L42				
ILLINOIS FED. AID PROJECT				

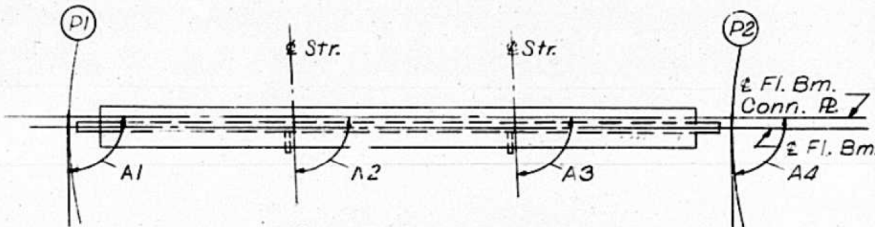
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. - 70	82-3HVB-2	ST. CLAIR	252	159
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

STRINGER DIMENSIONS

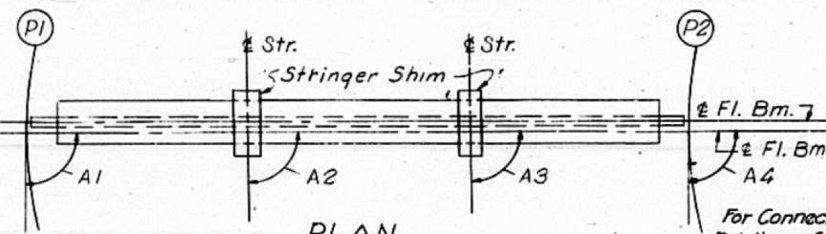
STR	L	S1	S2	S3	B1	B2
1	17'-6 3/16"	13'-5 3/8"	0	4'-0 13/16"	05'09.11"	90'42.24"
2	16 8 3/8	12 8 1/8	0	4 1/4	95.10.41	90.40.53
3	19 7 15/16	15 7 1/8	0	4 13/16	90.47.28	90.47.28
4	19 5 5/16	15 5 1/16	0	4 1/4	90.47.28	90.47.28
5	11 6 5/16	0	0	0	90.27.50	90.27.50
6	11 4 3/4	0	0	0	90.27.50	90.27.50
7	19 8	4 13/16	0	15 7 1/8	90.47.28	90.47.28
8	19 5 5/16	4 1/4	0	15 5 1/16	90.47.28	90.47.28
9	27 9 5/8	4 13/16	19 7 15/16	4 13/16	91.07.07	91.07.07
10	27 5 7/8	4 1/4	19 5 5/16	4 1/4	91.07.07	91.07.07
11	19 8	15 7 1/8	0	4 13/16	90.47.28	90.47.28
12	19 5 5/16	15 3 1/16	0	4 1/4	90.47.28	90.47.28
13	19 8	15 7 1/8	0	4 13/16	90.47.28	90.47.28
14	19 5 5/16	15 5 1/16	0	4 1/4	90.47.28	90.47.28
15	19 8	15 7 1/8	0	4 13/16	90.47.28	90.47.28
16	19 5 5/16	15 5 1/16	0	4 1/4	90.47.28	90.47.28
17	11 6 5/16	0	0	0	90.27.50	90.27.50
18	11 4 3/4	0	0	0	90.27.50	90.27.50
19	19 8	4 13/16	0	15 7 1/8	90.47.28	90.47.28
20	19 5 5/16	4 1/4	0	15 5 1/16	90.47.28	90.47.28
21	27 9 5/8	4 13/16	19 7 15/16	4 13/16	91.07.07	91.07.07
22	27 5 7/8	4 1/4	19 5 5/16	4 1/4	91.07.07	91.07.07
23	19 8	15 7 1/8	0	4 13/16	90.47.28	90.47.28
24	19 5 5/16	15 5 1/16	0	4 1/4	90.47.28	90.47.28
25	19 8	15 7 1/8	0	4 13/16	90.47.28	90.47.28
26	19 5 5/16	15 5 1/16	0	4 1/4	90.47.28	90.47.28
27	11 6 5/16	0	0	0	90.27.50	90.27.50
28	11 4 3/4	0	0	0	90.27.50	90.27.50
29	19 3 7/8	4 13/16	0	15 3 1/16	90.46.39	90.46.39
30	19 1 5/16	4 1/4	0	15 1	90.46.39	90.46.39
31	15 11 1/2	4 13/16	0	11 10 11/16	90.38.32	90.44.58
32	15 9 3/16	4 1/4	0	11 8 7/8	90.38.29	90.45.00

FLOOR BEAM DIMENSIONS

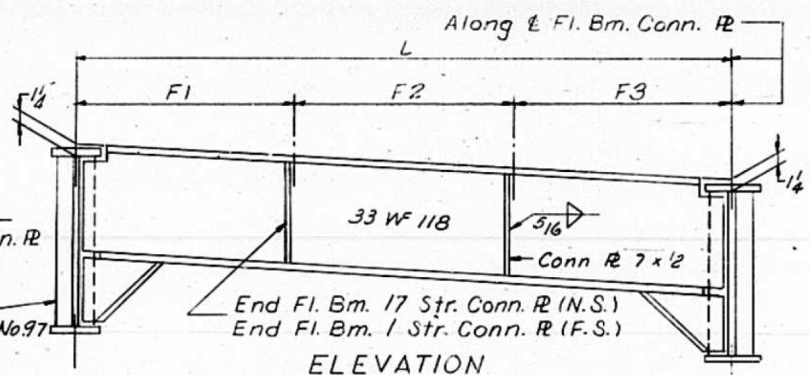
FL. BM	L	F1	F2	F3	A1	A2	A3	A4
1	24'-0 7/8"	8'-0 5/16"	8'-0 5/16"	8'-0 5/16"	94'24.02"	95'09.11"	95'10.41"	94'33.09"
2	24	8 7/16	8	7 11 9/16	90.00.00	89.37.15	89.38.45	90.00.00
3	24	8 9/16	8	7 11 1/2	90.00.00	89.32.10	89.32.10	90.00.00
4	24	8 9/16	8	7 11 1/2	90.00.00	90.27.50	90.27.50	90.00.00
5	24	8 13/16	8	7 11 3/16	90.00.00	90.47.28	90.47.28	90.00.00
6	24	8 13/16	8	7 11 3/16	90.00.00	89.12.32	89.12.32	90.00.00
7	24	8 9/16	8	7 11 1/2	90.00.00	89.32.10	89.32.10	90.00.00
8	24	8 9/16	8	7 11 1/2	90.00.00	89.32.10	89.32.10	90.00.00
9	24	8 9/16	8	7 11 1/2	90.00.00	89.32.10	89.32.10	90.00.00
10	24	8 9/16	8	7 11 1/2	90.00.00	90.27.50	90.27.50	90.00.00
11	24	8 13/16	8	7 11 3/16	90.00.00	90.47.28	90.47.28	90.00.00
12	24	8 13/16	8	7 11 3/16	90.00.00	89.12.32	89.12.32	90.00.00
13	24	8 9/16	8	7 11 1/2	90.00.00	89.32.10	89.32.10	90.00.00
14	24	8 9/16	8	7 11 1/2	90.00.00	89.32.10	89.32.10	90.00.00
15	24	8 1/2	8	7 11 1/2	90.00.00	90.27.01	90.27.01	90.00.00
16	24	8 7/16	8	7 11 5/8	90.00.00	90.18.53	90.18.51	90.00.00
17	24	8	8	8	89.53.38	89.15.02	89.15.00	89.53.25



PLAN-END FL. BM. 17

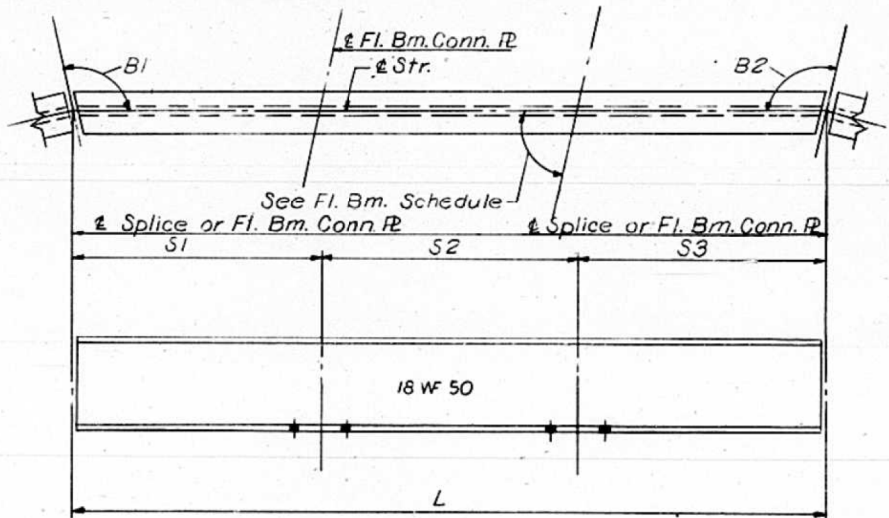


PLAN

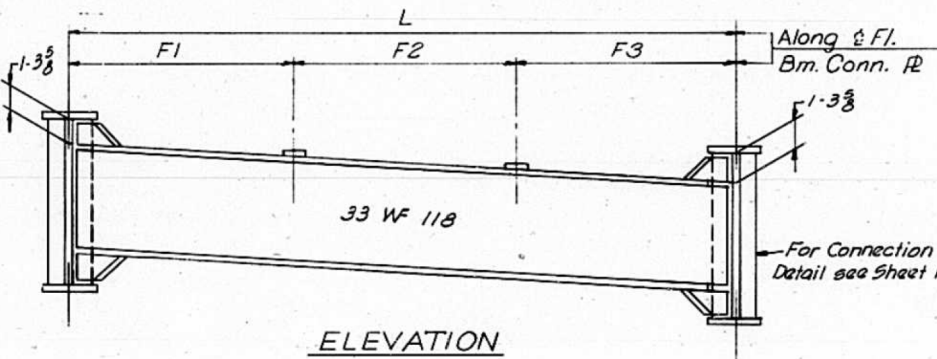


ELEVATION

END FLOOR BEAM 1 AND 17

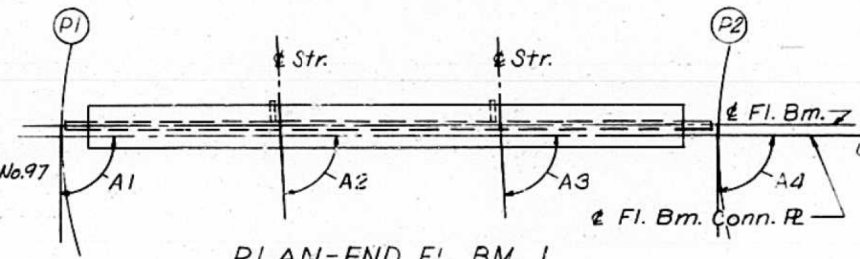


TYPICAL STRINGER



ELEVATION

INTERIOR FLOOR BEAM 2 THRU 16



PLAN-END FL. BM. 1

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 Detail see Sheet No. 97

STATE OF ILLINOIS DEPARTMENT OF PUBLIC WORKS & BLDGS. DIVISION OF HIGHWAYS STRINGER AND FLOOR BEAM SCHEDULE SPANS P1 THRU P3 POPLAR STREET BRIDGE APPROACHES RAMP "P"		
F.A.I. RT 70	ST. CLAIR CO.	SECTION 82-3HVB-2
H. W. LOCHNER, INC. ENGINEERS CHICAGO, ILLINOIS		SHEET 93 OF 147

FOR INFORMATION ONLY

DESIGNED BY: A.T.
DRAWN BY: D.C.H.
CHECKED BY: S.A.B.

USER NAME = smithma	DESIGNED -	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 12/15/2017	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE DETAILS SN 082-0203

SCALE: SHEET 4 OF 18 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	82-3HVB-2-BP	ST. CLAIR	22	8
CONTRACT NO. 76L42				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

NOTES:
All longitudinal dimensions shown
are given along & of Web see
Sheet No. 92
All Bearing Stiffeners and Connection
Plates to be vertical.
For Splice Stiffener, Connection Plate
Details and Table I see Sheet No. 97

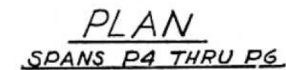
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS

GIRDERS PI AND P2
SPANS PI THRU P3
POPLAR STREET BRIDGE APPROACHES
RAMP "P"

F.A.I. RT. 70	ST. CLAIR CO.	SECTION 82-3HVB-2
H. W. LOCHNER, INC. ENGINEERS CHICAGO, ILLINOIS		SHEET 95 of 147

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	82-3HVB-2-BP	ST. CLAIR	22	9
		CONTRACT NO. 76L42		
ILLINOIS		FED. AID PROJECT		

MODEL: Default
FILE NAME: pw:\JL084EBID\INTEG.Ill\Inols.qov:PWIDOT\Documents\DOT_Offices\District_8\Projects\D876L42\CADData\CADsheets\D876L42-sht-details.dgn



		GIR. P1	GIR. P2	DIFF.
CL. BRG.		470,667	468,747	1,920
FLOOR BEAM	1	470,674	468,755	1,919
FLOOR BEAM	2	470,903	468,902	1,921
FLOOR BEAM	3	471,174	469,254	1,920
SPLICE	4	471,389	469,469	1,920
FLOOR BEAM	4	471,421	469,501	1,920
FLOOR BEAM	5	471,575	469,655	1,920
FLOOR BEAM	6	471,717	469,797	1,920
SPLICE	6	471,747	469,827	1,920
FLOOR BEAM	7	471,763	469,843	1,920
FLOOR BEAM	8	471,783	469,863	1,920
FLOOR BEAM	9	471,803	469,883	1,920
SPLICE	10	471,818	469,898	1,920
FLOOR BEAM	10	471,797	469,877	1,920
FLOOR BEAM	11	471,694	469,774	1,920
FLOOR BEAM	12	471,583	469,663	1,920
SPLICE	12	471,560	469,640	1,920
FLOOR BEAM	13	471,379	469,459	1,920
FLOOR BEAM	14	471,151	469,231	1,920
FLOOR BEAM	15	470,959	469,039	1,920
CL. BRG.		470,952	469,032	1,920

Note: Dimensions locating Floor Beams are given to the Floor Beam Conn Plate. See sketch Sheet No. 183

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

F.A.I. RT.70	ST. CLAIR CO.	SECTION 82-3HVF&E-1
H. W. LOCHNER, INC. ENGINEERS CHICAGO, ILLINOIS		SHEET 304 of 526

USER NAME = smithma	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 12/15/2017	DATE -	REVISED -

EXISTING STRUCTURE DETAILS SN 082-0203

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	82-3HVB-2-BP	ST. CLAIR	22	10
CONTRACT NO. 76L42				
ILLINOIS		FED. AID PROJECT		

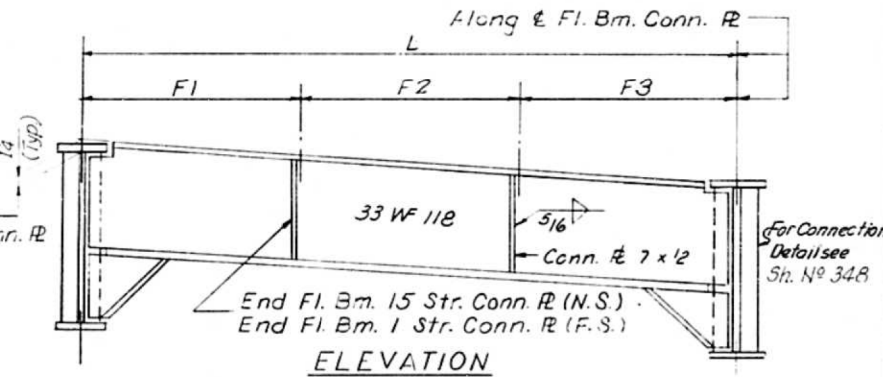
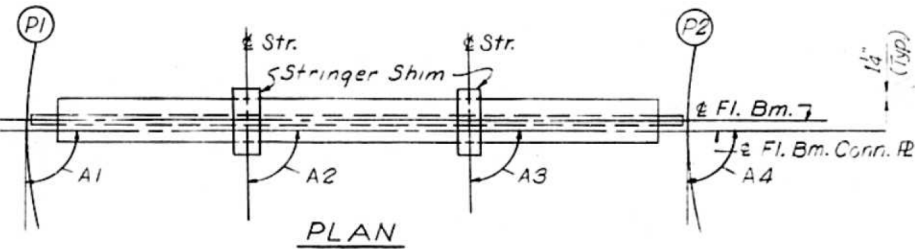
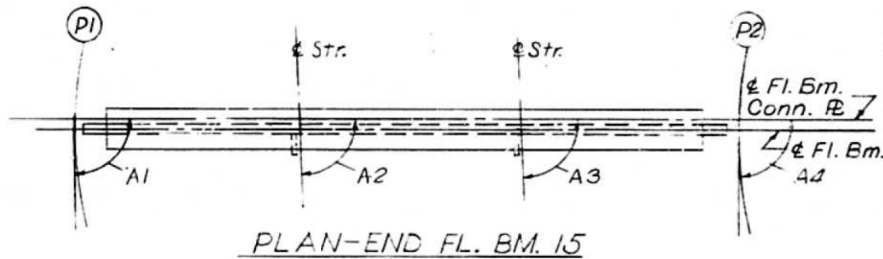
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. - 70	82-3HVF&E1	ST. CLAIR	247	175
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

STRINGER DIMENSIONS

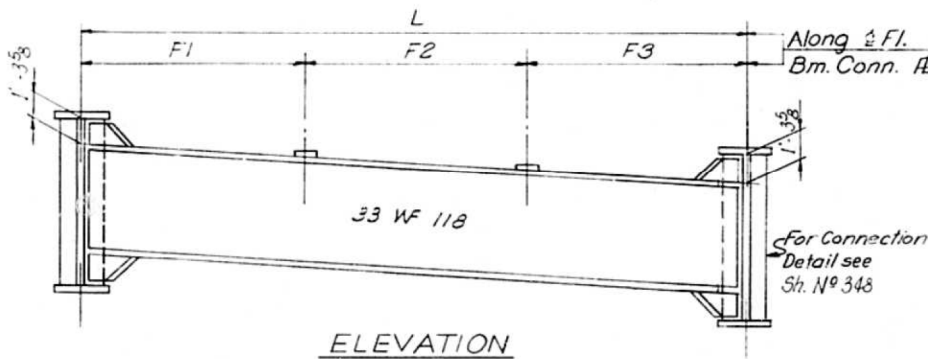
STR	P	L	S1	S2	S3	B1	B2
1	13	3 15/16"	○	○	○	90°38'37"	90°32'11"
2	13	2	○	○	13 2	90°38'39"	90°32'09"
3	21	1 1/4	4 4 7/8	○	16 8 3/8	90°50'57"	90°50'57"
4	20	10 7/16	4 4 5/16	○	16 6 1/8	90°50'57"	90°50'57"
5	21	1 1/4	4 4 7/8	○	16 8 3/8	90°50'57"	90°50'57"
6	20	10 7/16	4 4 5/16	○	16 6 1/8	90°50'57"	90°50'57"
7	21	1 1/4	4 4 7/8	○	16 8 3/8	90°50'57"	90°50'57"
8	20	10 7/16	4 4 5/16	○	16 6 1/8	90°50'57"	90°50'57"
9	27	11 5/8	4 4 7/8	19 5 15/16	4 13/16	91°07'32"	91°07'32"
10	27	7 7/8	4 4 5/16	19 3 5/16	4 1/4	91°07'32"	91°07'32"
11	19	5 15/16	15 5 1/8	○	4 13/16	90°47'04"	90°47'04"
12	19	3 5/16	15 3	○	4 1/4	90°47'04"	90°47'04"
13	19	5 15/16	15 5 1/8	○	4 13/16	90°47'04"	90°47'04"
14	19	3 5/16	15 3 1/16	○	4 1/4	90°47'04"	90°47'04"
15	19	5 15/16	15 5 1/8	○	4 13/16	90°47'04"	90°47'04"
16	19	3 5/16	15 3 1/16	○	4 1/4	90°47'04"	90°47'04"
17	11	4 5/16	○	○	○	90°27'25"	90°27'25"
18	11	2 3/4	○	○	○	90°27'25"	90°27'25"
19	27	11 5/8	4 13/16	19 5 15/16	4 4 7/8	91°07'32"	91°07'32"
20	27	7 7/8	4 1/4	19 3 5/16	4 4 5/16	91°07'32"	91°07'32"
21	21	1 1/4	16 8 3/8	○	4 4 7/8	90°50'57"	90°50'57"
22	20	10 7/16	16 6 1/8	○	4 4 5/16	90°50'57"	90°50'57"
23	21	1 1/4	16 8 3/8	○	4 4 7/8	90°50'57"	90°50'57"
24	20	10 7/16	16 6 1/8	○	4 4 5/16	90°50'57"	90°50'57"
25	21	1 1/4	16 8 3/8	○	4 4 7/8	90°50'57"	90°50'57"
26	20	10 7/16	16 6 1/8	○	4 4 5/16	90°50'57"	90°50'57"
27	13	3 15/16	13 3 15/16	○	○	90°32'11"	90°38'37"
28	13	2	○	○	○	90°32'09"	90°38'39"

FLOOR BEAM DIMENSIONS

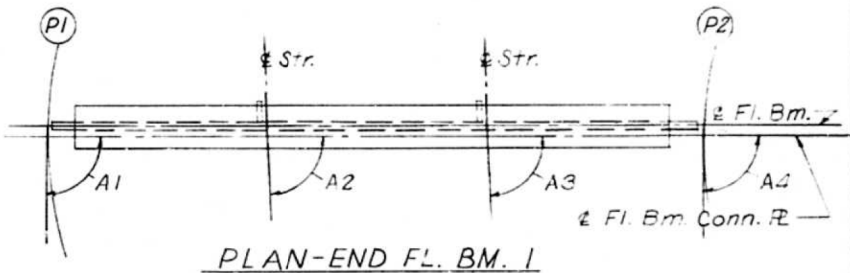
FL	STR	L	F1	F2	F3	A1	A2	A3	A4
1	24	○	8' - 0"	8' - 0"	8' - 0"	90°06'22"	90°38'37"	90°38'39"	90°06'35"
2	24	8	5/8	8	7 11 3/8	90°00'00"	90°29'40"	90°29'40"	90°00'00"
3	24	8	5/8	8	7 11 3/8	90°00'00"	90°29'40"	90°29'40"	90°00'00"
4	24	8	5/8	8	7 11 3/8	90°00'00"	90°29'40"	90°29'40"	90°00'00"
5	24	8	7/8	8	7 11 1/8	90°00'00"	90°46'15"	90°46'15"	90°00'00"
6	24	8	13/16	8	7 11 3/16	90°00'00"	89°12'07"	89°12'07"	90°00'00"
7	24	8	1/2	8	7 11 1/2	90°00'00"	89°32'35"	89°32'35"	90°00'00"
8	24	8	1/2	8	7 11 1/2	90°00'00"	89°32'35"	89°32'35"	90°00'00"
9	24	8	1/2	8	7 11 1/2	90°00'00"	89°32'35"	89°32'35"	90°00'00"
10	24	8	13/16	8	7 11 3/16	90°00'00"	89°47'53"	89°47'53"	90°00'00"
11	24	8	7/8	8	7 11 1/8	90°00'00"	89°13'45"	89°13'45"	90°00'00"
12	24	8	5/8	8	7 11 3/8	90°00'00"	89°30'20"	89°30'20"	90°00'00"
13	24	8	5/8	8	7 11 3/8	90°00'00"	89°30'20"	89°30'20"	90°00'00"
14	24	8	5/8	8	7 11 3/8	90°00'00"	89°30'20"	89°30'20"	90°00'00"
15	24	8	8	8	8	89°53'35"	89°21'23"	89°21'21"	89°53'25"



END FLOOR BEAM 1 AND 15

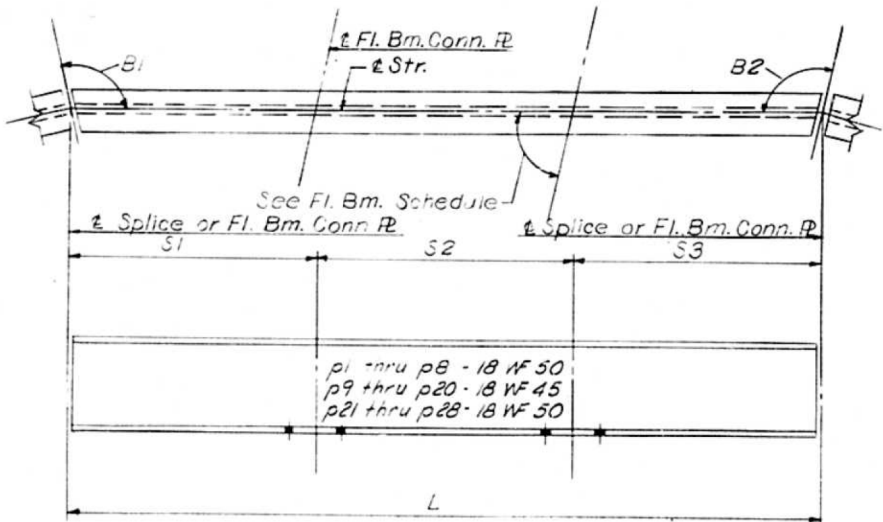


INTERIOR FLOOR BEAM 2 THRU 14



PLAN-END FL. BM. 1

TYPICAL STRINGER



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 Detail see
Sh. No 348

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
STRINGER AND FLOOR BEAM
SCHEDULE
SPANS P4 THRU P6
POPLAR STREET BRIDGE APPROACHES
RAMP "P"
F.A.I. RT 70 ST. CLAIR CO. SECTION 82-3HVF&E1
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS
SHEET
305 of 526

FOR INFORMATION ONLY

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

USER NAME = smithma	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 12/15/2017	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

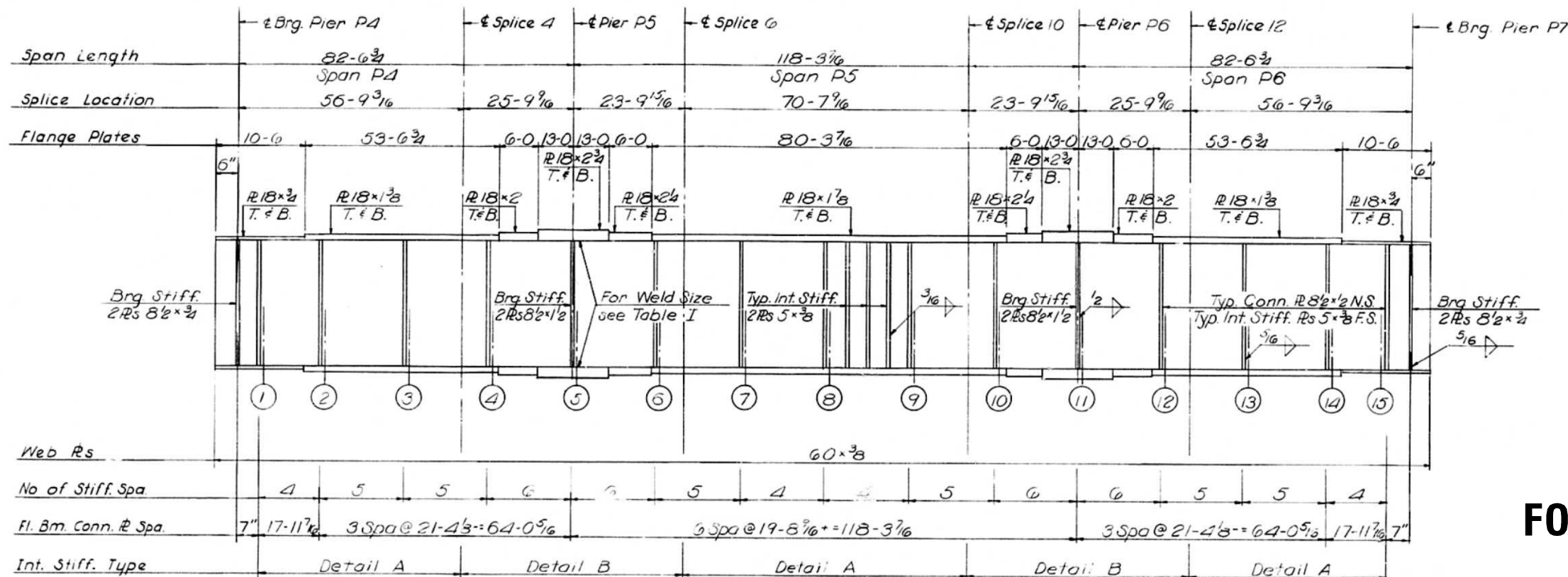
EXISTING STRUCTURE DETAILS SN 082-0203

SCALE: SHEET 7 OF 18 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	82-3HVB-2-BP	ST. CLAIR	22	11
				CONTRACT NO. 76L42

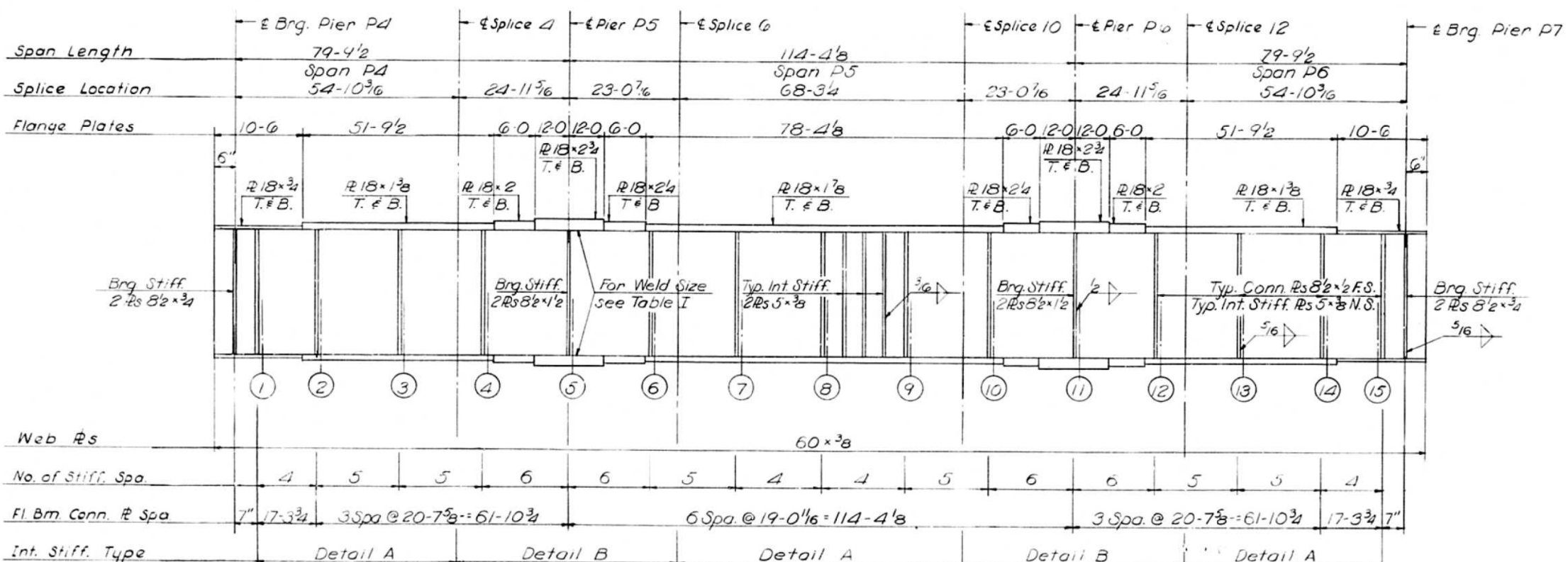
ILLINOIS FED. AID PROJECT

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			247	177
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	



GIRDER P1
SPANS P4 thru P6

FOR INFORMATION ONLY



GIRDER P2
SPANS P4 thru P6

Notes:
All Longitudinal Dimensions shown are given along ϵ of Web. See Sheet No. 304.
All Bearing Stiffeners and Connection Plates to be vertical.
For Splice, Stiffener, Connection Plate Details and Table I see Sheet No. 348, 349, 350.

STATE OF ILLINOIS DEPARTMENT OF PUBLIC WORKS & BLDGS. DIVISION OF HIGHWAYS			
GIRDERS P1 AND P2 SPANS P4 THRU P6 POPLAR STREET BRIDGE APPROACHES RAMP "P"			
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS
312	82-3HVB-2-BP	ST. CLAIR	22
CONTRACT NO. 76L42			SHEET NO.
H. W. LOCHNER, INC. ENGINEERS			12

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

USER NAME = smithma	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 12/15/2017	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE DETAILS SN 082-0203

SCALE: SHEET 8 OF 18 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	82-3HVB-2-BP	ST. CLAIR	22	12
CONTRACT NO. 76L42				
ILLINOIS FED. AID PROJECT				



FOR INFORMATION ONLY

Dimensions locating Floor Beams are given to the Floor Beam Conn. Plate. See sketch Sheet No. 183

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

FA I RT.70	ST CLAIR CO.	SECTION 82-3HVF5E:
H. W. LOCHNER, INC. ENGINEERS CHICAGO, ILLINOIS		SHEET 308 of 526

	USER NAME = smithma	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100,0000 * / in.	CHECKED -	REVISED -
	PLOT DATE = 12/15/2017	DATE -	REVISED -

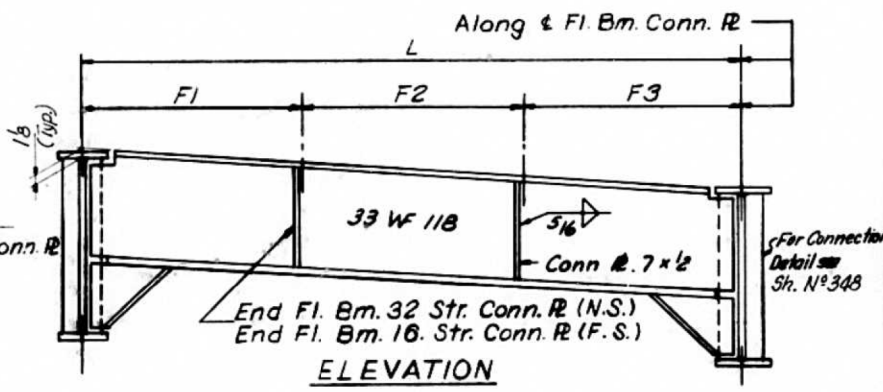
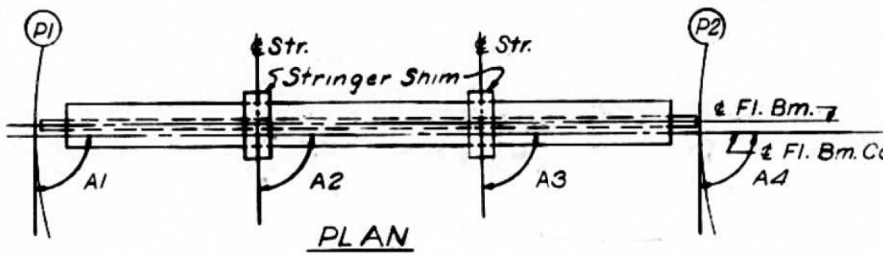
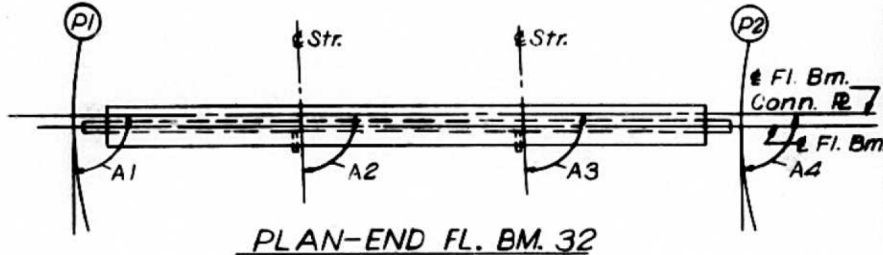
EXISTING STRUCTURE DETAILS SN 082-0203

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	82-3HVB-2-BP	ST. CLAIR	22	13
		CONTRACT NO. 76L42		
ILLINOIS		FED. AID PROJECT		

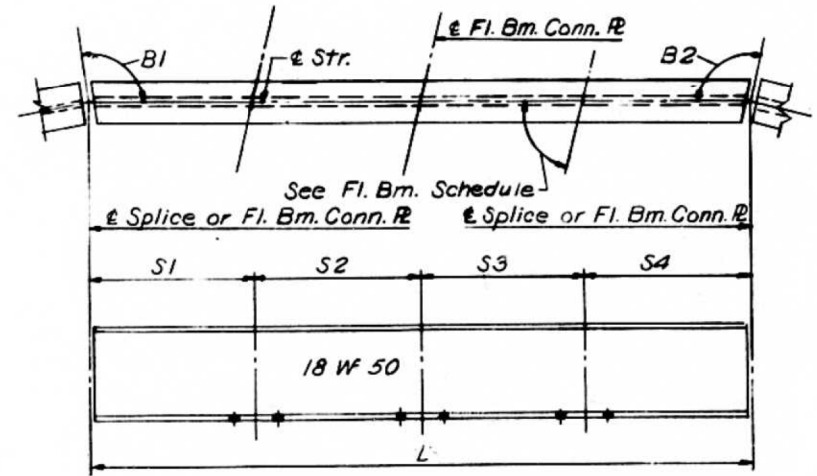
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. - 70	82-3WFB-E-1	ST. CLAIR	247	179
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

STRINGER DIMENSIONS							
STR. P.	L	S1	S2	S3	S4	B1	B2
29	9'-3 1/8"	○	○	○	○	90,28,48	90,22,22"
30	9' 1 11/16	○	○	○	○	90,28,50	90,22,19
31	20' 8 3/16	4' 3 7/8	○	○	16' 4 5/16	90,49,56	90,49,56
32	20' 5 3/8	4' 3 5/16	○	○	16' 2 1/16	90,49,56	90,49,56
33	20' 8 3/16	4' 3 7/8	○	○	16' 4 5/16	90,49,56	90,49,56
34	20' 5 3/8	4' 3 5/16	○	○	16' 2 1/16	90,49,56	90,49,56
35	20' 8 3/16	4' 3 7/8	○	○	16' 4 5/16	90,49,56	90,49,56
36	20' 5 3/8	4' 3 5/16	○	○	16' 2 1/16	90,49,56	90,49,56
37	29' 3 7/8	4' 3 7/8	20' 8 1/8	○	4' 3 7/8	91,10,48	91,10,48
38	28' 11 15/16	4' 3 5/16	20' 5 3/8	○	4' 3 5/16	91,10,48	91,10,48
39	20' 8 3/16	16' 4 5/16	○	○	4' 3 7/8	90,49,56	90,49,56
40	20' 5 3/8	16' 2 1/16	○	○	4' 3 5/16	90,49,56	90,49,56
41	20' 8 3/16	16' 4 5/16	○	○	4' 3 7/8	90,49,56	90,49,56
42	20' 5 3/8	16' 2 1/16	○	○	4' 3 5/16	90,49,56	90,49,56
43	20' 8 3/16	16' 4 5/16	○	○	4' 3 7/8	90,49,56	90,49,56
44	20' 5 3/8	16' 2 1/16	○	○	4' 3 5/16	90,49,56	90,49,56
45	20' 8 3/16	16' 4 5/16	○	○	4' 3 7/8	90,49,56	90,49,56
46	20' 5 3/8	16' 2 1/16	○	○	4' 3 5/16	90,49,56	90,49,56
47	11' 10 3/4	○	○	○	○	90,14,35	90,02,34
48	10' 1/4	○	○	○	○	90,14,36	90,02,32
49	49' 2	4' 3	20' 4	20' 4	4' 3	90,00,00	90,00,00
50	49' 2	4' 3	20' 4	20' 4	4' 3	90,00,00	90,00,00
51	40' 8	16' 1	20' 4	○	4' 3	90,00,00	90,00,00
52	40' 8	16' 1	20' 4	○	4' 3	90,00,00	90,00,00
53	29' 5	16' 1	○	○	13' 4	90,00,00	90,00,00
54	29' 5	16' 1	○	○	13' 4	90,00,00	90,00,00

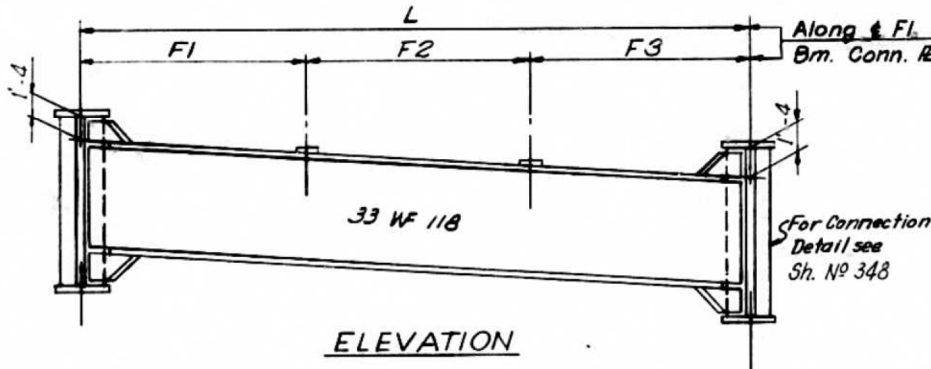
FLOOR BEAM DIMENSIONS											
FL. BM.	L	F1	F2	F3	A1	A2	A3	A4			
16	24' — 0"	8' — 0"	8' — 0"	8' — 0"	90,06,22"	90,28,48"	90,28,50"	90,06,35"			
17	24	8 5/8	8	7 11 7/16	90,00,00	90,29,03	90,29,03	90,00,00			
18	24	8 5/8	8	7 11 7/16	90,00,00	90,29,03	90,29,03	90,00,00			
19	24	8 5/8	8	7 11 7/16	90,00,00	90,29,03	90,29,03	90,00,00			
20	24	8 15/16	8	7 11 1/8	90,00,00	90,49,56	90,49,56	90,00,00			
21	24	8 15/16	8	7 11 1/8	90,00,00	89,10,04	89,10,04	90,00,00			
22	24	8 5/8	8	7 11 7/16	90,00,00	89,30,57	89,30,57	90,00,00			
23	24	8 5/8	8	7 11 7/16	90,00,00	89,30,57	89,30,57	90,00,00			
24	24	8 5/8	8	7 11 7/16	90,00,00	89,30,57	89,30,57	90,00,00			
25	24	8 5/8	8	7 11 7/16	90,00,00	89,30,57	89,30,57	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			



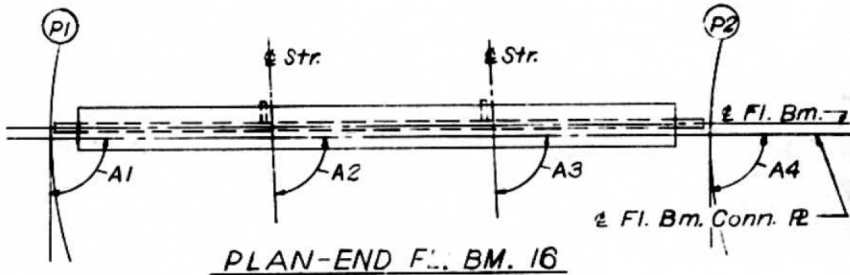
END FLOOR BEAM 16 AND 32



TYPICAL STRINGER



INTERIOR FLOOR BEAM 17 THRU 31



PLAN-END FL. BM. 16

Note:
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 Detail see
Sh. N° 348

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
STRINGER AND FLOOR BEAM
SCHEDULE
SPANS P7 THRU P9
POPLAR STREET BRIDGE APPROACHES
RAMP "P"
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3WFB-E-1
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET
309 of 526

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

USER NAME = smithma	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 12/15/2017	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE DETAILS SN 082-0203

SCALE: SHEET 10 OF 18 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	82-3HVB-2-BP	ST. CLAIR	22	14
				CONTRACT NO. 76L42
		ILLINOIS	FED. AID PROJECT	

	Brq. Pier P7				Splice 20		Pier P8		Splice 22		Splice 26		Pier P9		Splice 27		Brq. Pier P10	
Span Length	97-11 ³ / ₈				124-6 ¹ / ₂		95-3											
	Span P7				Span P8		Span P9											
Splice Location	72-8 ⁷ / ₁₆				25-3 ⁷ / ₁₆		25-3 ⁷ / ₁₆		74-8 ¹ / ₁₆		24-7		24-7		70-8			
Flange Plates	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	
	12-6				68-11 ³ / ₈		6-0, 11-0		11-0, 6-0		90-6 ¹ / ₂		6-0, 11-0		11-0, 6-0		66-3	

GIRDER P1
Spans P7 thru P9

Span Length	Splice Location	Flange Plates	Web Stiffeners	No. of Stiff. Spa.	Fl. Brn. Conn. R Spa.	Int. Stiff. Type
94'-8 ⁷ / ₁₆	70'-3 ¹ / ₈	12-6, 66'-8 ⁷ / ₁₆	2 R 18 x 1 T & B, 2 R 18 x 1 1/2 T & B	4	7	Detail A
121'-5 ⁷ / ₈	24'-5 ⁵ / ₁₆ , 24'-5 ⁵ / ₁₆ , 72'-5 ³ / ₁₆	6-0, 10-0, 10-0, 6-0, 89'-5 ³ / ₈	2 R 18 x 2 1/2 T & B, 2 R 18 x 3 1/4 T & B, 2 R 18 x 2 1/2 T & B, 2 R 18 x 2 T & B	6	4 Spa @ 20'-2 1/2 = 80'-10 1/16	Detail B
95'-3	24-7, 24-7, 70'-8	6-0, 10-0, 10-0, 6-0, 67'-3	2 R 18 x 2 1/2 T & B, 2 R 18 x 3 1/4 T & B, 2 R 18 x 2 1/2 T & B, 2 R 18 x 1 1/2 T & B	6	20-4, 4 Spa @ 20'-4 = 81'-4	Detail B
		12-6	2 R 18 x 1 T & B	4	13-4	Detail A

GIRDER P2
Spans P7 thru P9

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

GIRDERS P1 AND P2
SPANS P7 THRU P9

POPLAR STREET BRIDGE APPROACHES
RAMP "P"

F.A.I.R.T.70 ST. CLAIR CO. SECTION 02-3MV F&E-1

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

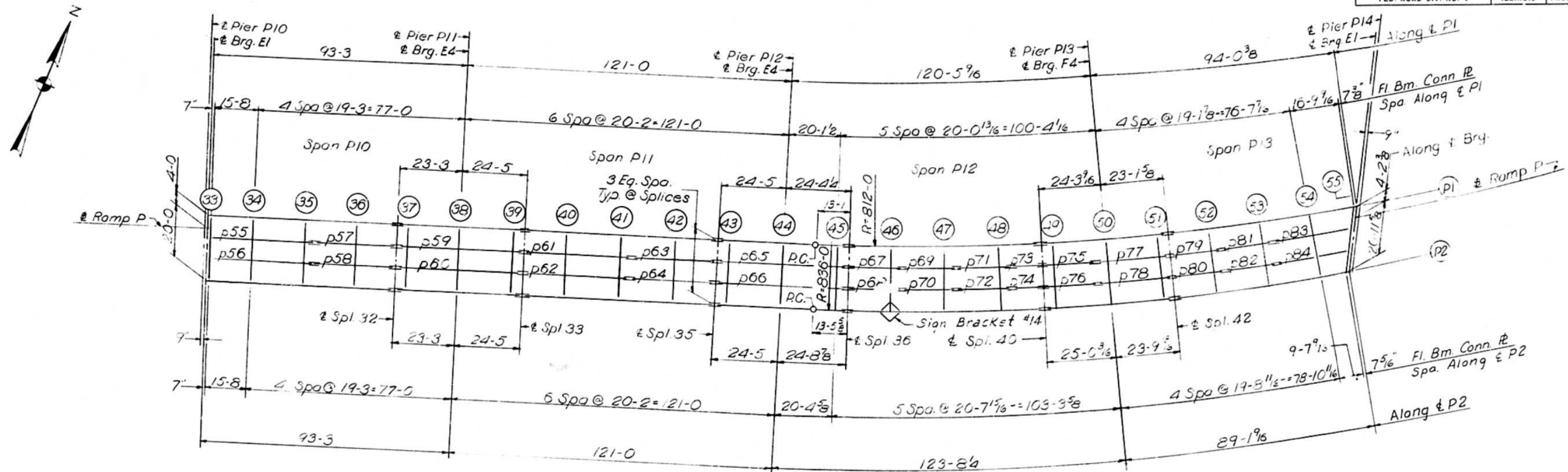
SHEET
311 OF 320

USER NAME = smithma	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 12/15/2017	DATE -	REVISED -

EXISTING STRUCTURE DETAILS SN 082-0203

[illegible]

SCALE:	SHEET 11 OF 18 SHEETS	STA.	TO STA.
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PLAN
SPANS P10 THRU P13

ELEVATION TOP OF GIRDER WEB

		GIR. P1	GIR. P2	DIFF.			GIR. P1	GIR. P2	DIFF.
CL. BRG.		460.104	459.759	.344	FLOOR BEAM	45	450.628	452.007	1.379
FLOOR BEAM	33	460.078	459.737	.340	SPLICE	36	450.433	451.904	1.411
FLOOR BEAM	34	459.357	459.129	.228	FLOOR BEAM	46	450.105	451.628	1.523
FLOOR BEAM	35	458.471	458.382	.088	FLOOR BEAM	47	449.613	451.279	1.666
FLOOR BEAM	36	457.586	457.635	.049	FLOOR BEAM	48	449.122	450.929	1.807
SPLICE	32	456.684	457.043	.359	SPLICE	40	448.734	450.654	1.920
FLOOR BEAM	37	456.707	456.895	.188	FLOOR BEAM	49	448.683	450.603	1.920
FLOOR BEAM	38	455.855	456.181	.326	FLOOR BEAM	50	448.443	450.363	1.920
FLOOR BEAM	39	454.961	455.433	.472	FLOOR BEAM	51	448.213	450.133	1.920
SPLICE	33	454.773	455.276	.503	SPLICE	42	448.165	450.085	1.920
FLOOR BEAM	40	454.172	454.789	.617	FLOOR BEAM	52	448.054	449.973	1.919
FLOOR BEAM	41	453.409	454.172	.763	FLOOR BEAM	53	447.909	449.830	1.921
FLOOR BEAM	42	452.647	453.555	.907	FLOOR BEAM	54	447.768	449.687	1.919
SPLICE	35	452.045	453.067	1.022	FLOOR BEAM	55	447.645	449.618	1.973
FLOOR BEAM	43	451.910	452.967	1.057	CL. BRG.		447.641	449.613	1.972
FLOOR BEAM	44	451.268	452.490	1.222					

FOR INFORMATION ONLY

Note:
Dimensions locating Floor Beams are given
to the Floor Beam Conn. Plate.
See Sketch Sheet No. 183
For Sign Bracket Detail see Sh. No. 360

BILL OF MATERIAL	
*Structural Steel	Lbs. 474,240

*Weight of Bearing Assemblies with
Lead Plates and Anchor Bolts are
Included as Structural Steel
Est. Wt. 9620

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
FRAMING PLAN
SPANS P10 THRU P13
POPLAR STREET BRIDGE APPROACHES
RAMP "P"

FA 1 RT 70 ST. CLAIR CO SECTION 82-3HVB-E-1
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET
312 of 576

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

USER NAME = smithma	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,000' / in.	CHECKED -	REVISED -
PLOT DATE = 12/15/2017	DATE -	REVISED -

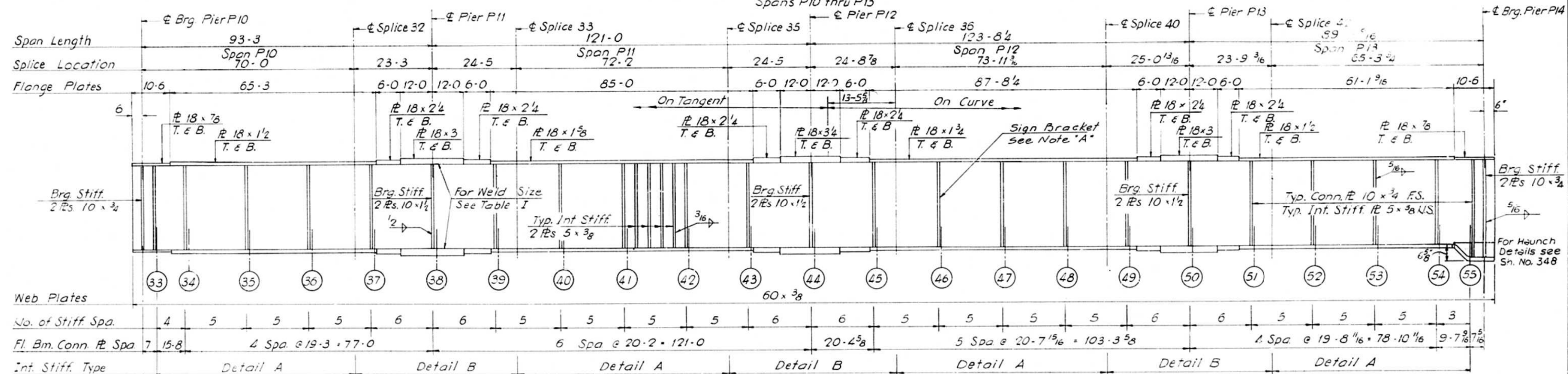
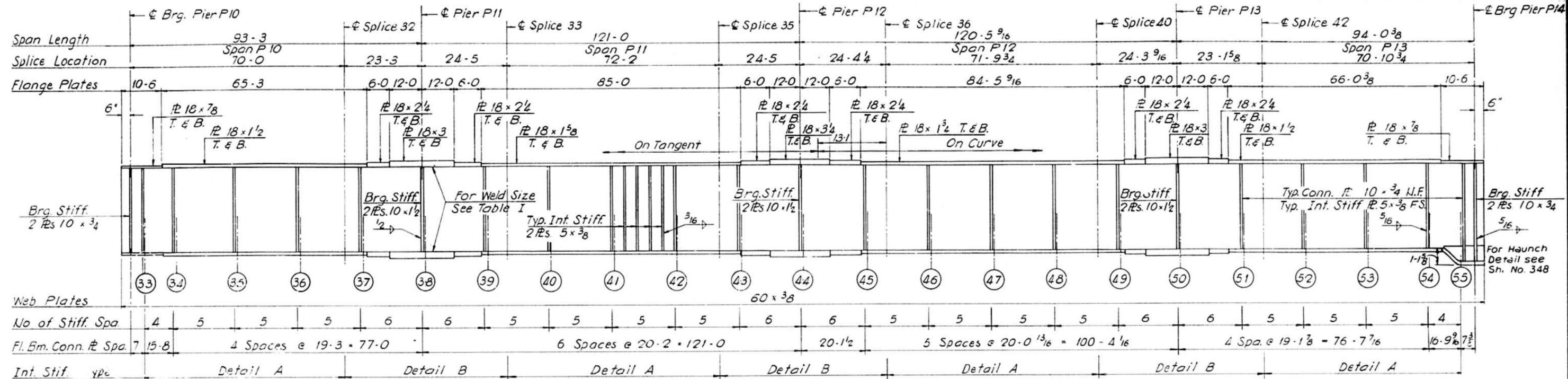
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE DETAILS SN 082-0203

SCALE: SHEET 12 OF 18 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	82-3HVB-2-BP	ST. CLAIR	22	16
CONTRACT NO. 76L42				
ILLINOIS FED. AID PROJECT				

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVF & E-1	ST. CLAIR	247	185
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



FOR INFORMATION ONLY

DESIGNED BY: R.M.R.
DRAWN BY: V.R.
CHECKED BY: A.T.
APPROVED BY: S.A.

Note "A"
Intermediate Stiffeners should be moved if necessary to clear sign bracket connection plates.

Notes:
All Longitudinal Dimensions shown are given along E of Web. See Sheet No. 312.
All Bearing Stiffeners and Connection Plates to be vertical.
For Splice, Stiffener, Connection Plate Details and Table I see Sheet No. 348, 349, 350.
For Sign Bracket Detail see Sheet No. 360.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
GIRDERS P1 AND P2
SPANS P10 THRU P13
POPLAR STREET BRIDGE APPROACHES
RAMP "P"
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVF & E-1
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS
SHEET
315 OF 526

USER NAME = smithma	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 12/15/2017	DATE -	REVISED -

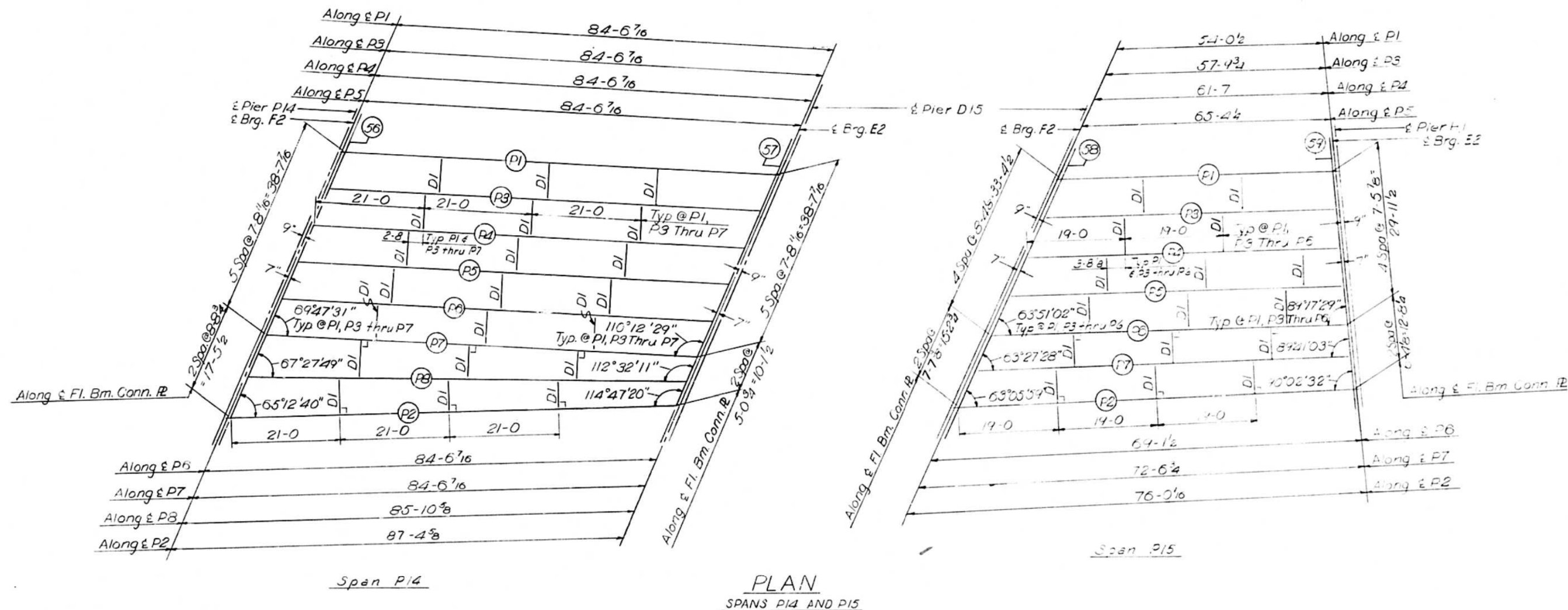
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE DETAILS SN 082-0203

SCALE: SHEET 14 OF 18 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	82-3HVB-2-BP	ST. CLAIR	22	18
				CONTRACT NO. 76L42
		ILLINOIS	FED. AID PROJECT	

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F A I - 70	82-3HVF&E-1	ST CLAIR	247	186
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	



FOR INFORMATION ONLY

ELEVATION TOP OF FLANGE			
	STR. P1	STR. P2	DIFF.
CL. BRG.	447.835	451.216	3.381
FLOOR BEAM 56	447.831	451.214	3.383
FLOOR BEAM 57	447.319	450.975	3.656
CL. BRG.	447.316	450.973	3.657

ELEVATION TOP OF FLANGE			
	STR. P1	STR. P2	DIFF.
CL. BRG.	447.306	450.961	3.655
FLOOR BEAM 58	447.299	450.954	3.655
FLOOR BEAM 59	446.726	450.138	3.412
CL. BRG.	446.719	450.132	3.413

BILL OF MATERIAL	
*Structural Steel	Lbs. 320,925

*Weight of Bearing Assemblies with Lead Plates and Anchor Bolts are Included as Structural Steel Est. Wt. 7020

STATE OF ILLINOIS DEPARTMENT OF PUBLIC WORKS & BLDGS. DIVISION OF HIGHWAYS FRAMING PLAN SPANS P14 AND P15 POPLAR STREET BRIDGE APPROACHES RAMP "P"	
F A I RT 70 ST CLAIR CO SECTION 82-3HVF&E	SHEET 316 of 52
H. W. LOCHNER, INC. ENGINEERS CHICAGO, ILLINOIS	

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

USER NAME = smithma	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 12/15/2017	DATE -	REVISED -

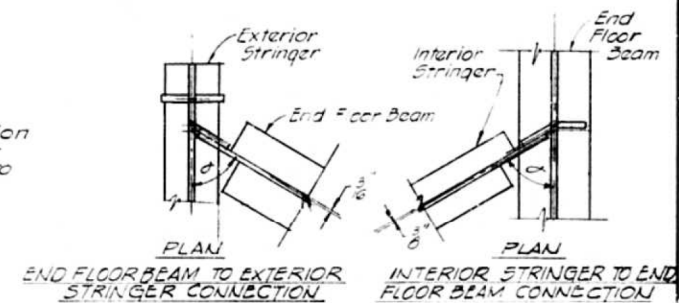
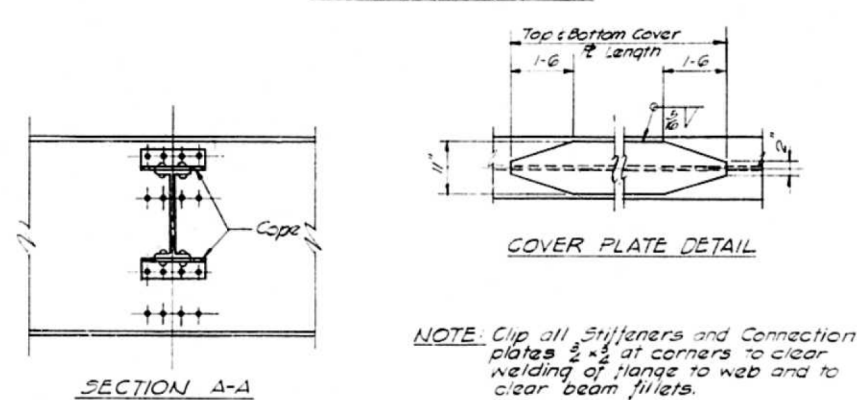
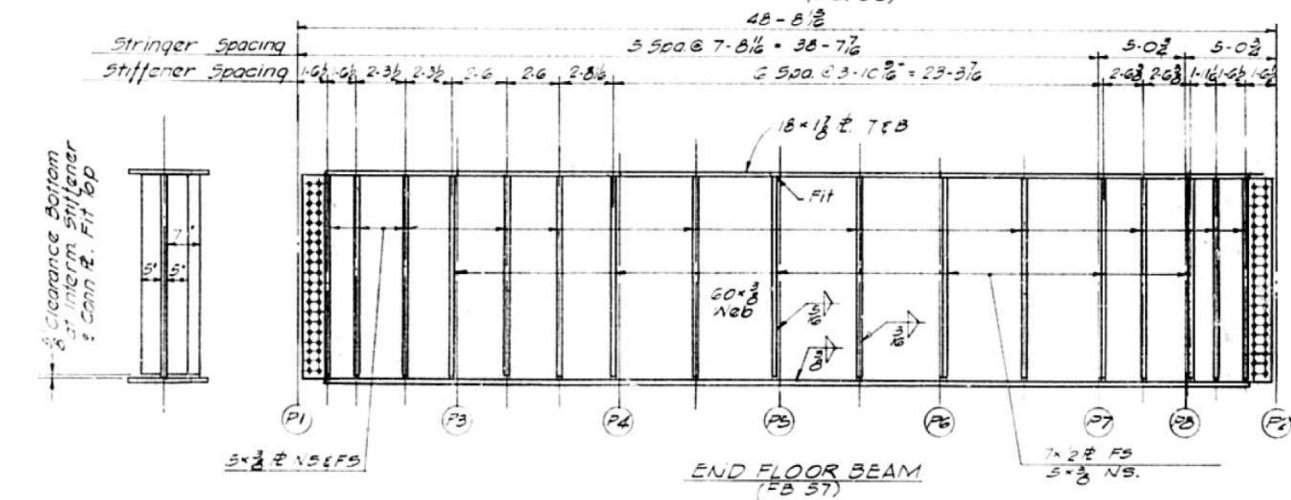
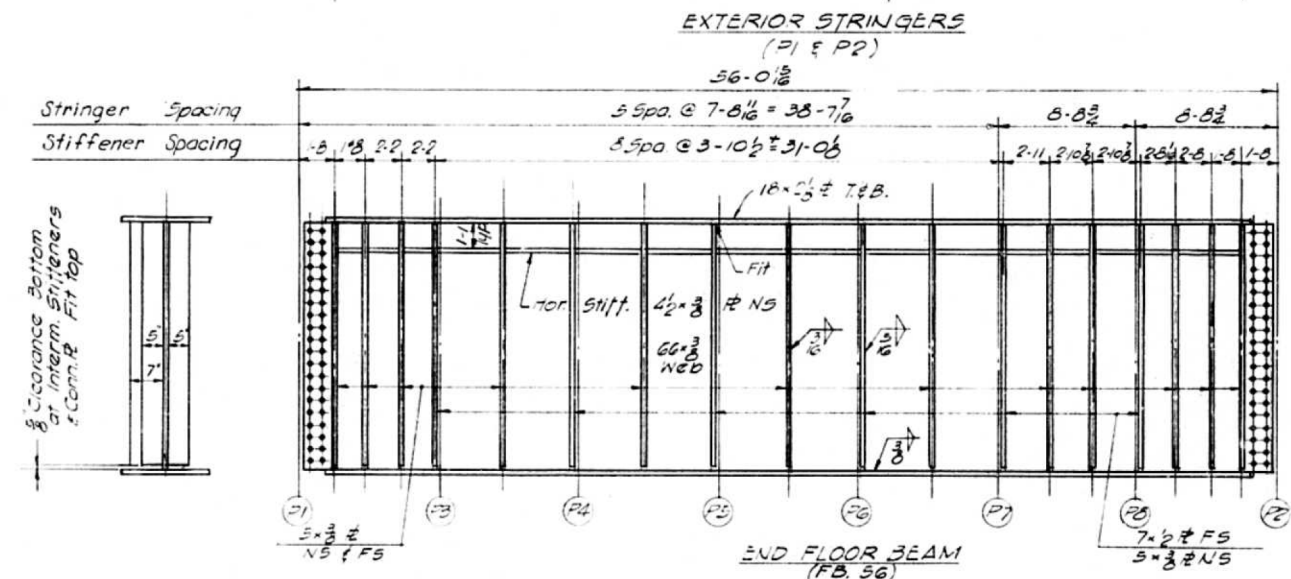
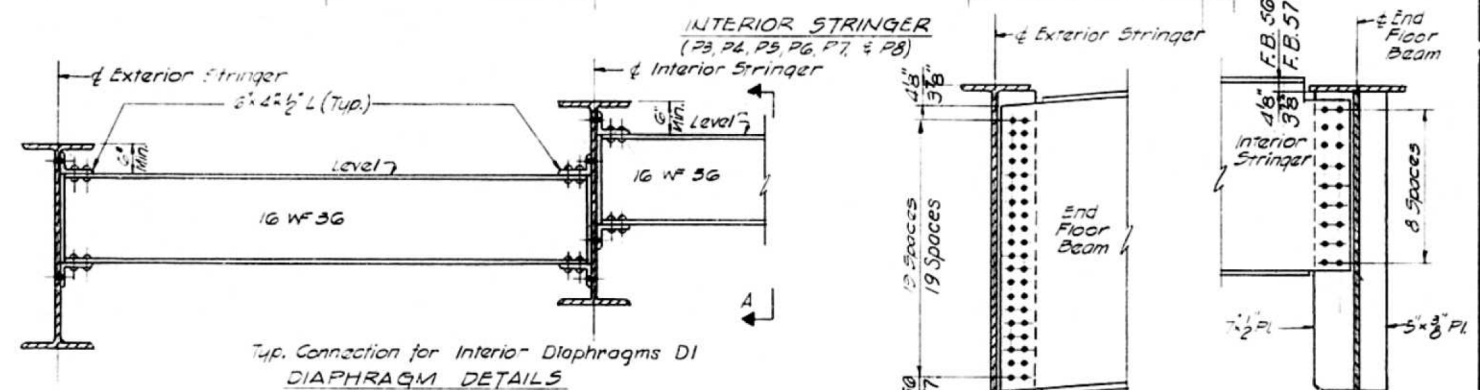
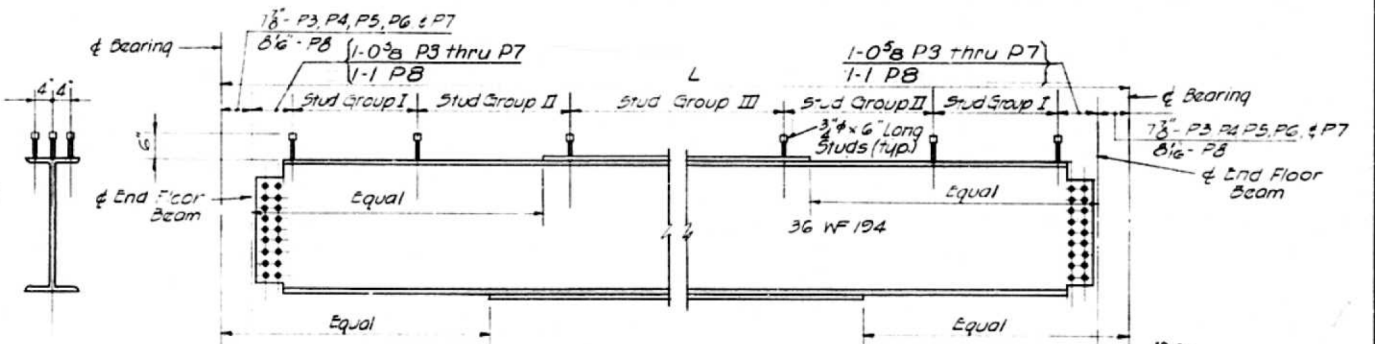
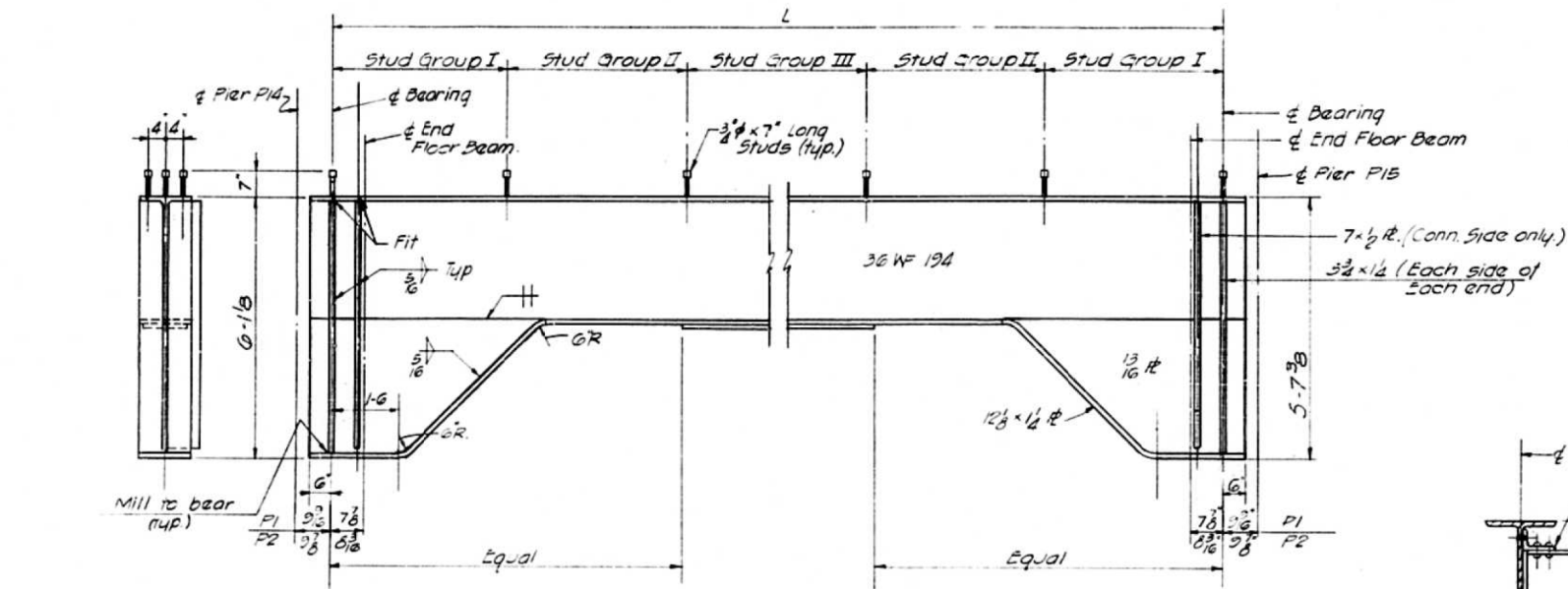
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE DETAILS SN 082-0203

SCALE: SHEET 15 OF 18 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	82-3HVB-2-BP	ST. CLAIR	22	19
CONTRACT NO. 76L42				
ILLINOIS FED. AID PROJECT				

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVF & E-1	ST. CLAIR	247	187
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	



STRINGERS & COVER PLATE LENGTHS-SHEAR CONN. SPACING						
STRINGERS	LENGTH(L)	TOP COVER	BOTTOM COVER	STUD GROUP I	STUD GROUP II	STUD GROUP III
P1	84'-6 7/8"	—	11x1 3/8"x67'-6"	34E5 1/2"	30E7 1/2"	22E10 1/2"
P3	84'-6 7/8"	—	11x1 3/8"x67'-6"	34E5 1/2"	30E7 1/2"	18E9"
P4	84'-6 7/8"	—	11x1 3/8"x67'-6"	34E5 1/2"	30E7 1/2"	18E10 1/2"
P5	84'-6 7/8"	11x2 1/2"x67'-6"	11x1 3/8"x67'-6"	34E5 1/2"	30E7 1/2"	18E10 1/2"
P6	84'-6 7/8"	11x2 1/2"x67'-6"	11x1 3/8"x67'-6"	34E5 1/2"	30E7 1/2"	18E10 1/2"
P7	84'-6 7/8"	—	11x1 3/8"x67'-6"	34E5 1/2"	30E7 1/2"	18E10 1/2"
P8	65'-10 3/8"	—	11x1 3/8"x65'-3"	32E5 1/2"	24E6 1/2"	19E11 1/2"
P2	87'-4 3/8"	—	11x1 3/8"x65'-3"	32E5 1/2"	24E6 1/2"	22E11 1/2"

NOTES

For Framing Plan see Sheet No.316

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

STEEL DETAILS
SPAN PI4
POPLAR STREET BRIDGE APPROACHES
RAMP "P"

H. W. LOCHNER, INC. ENGINEERS CHICAGO, ILLINOIS	SHEET 317 of 526
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FOR INFORMATION ONLY

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

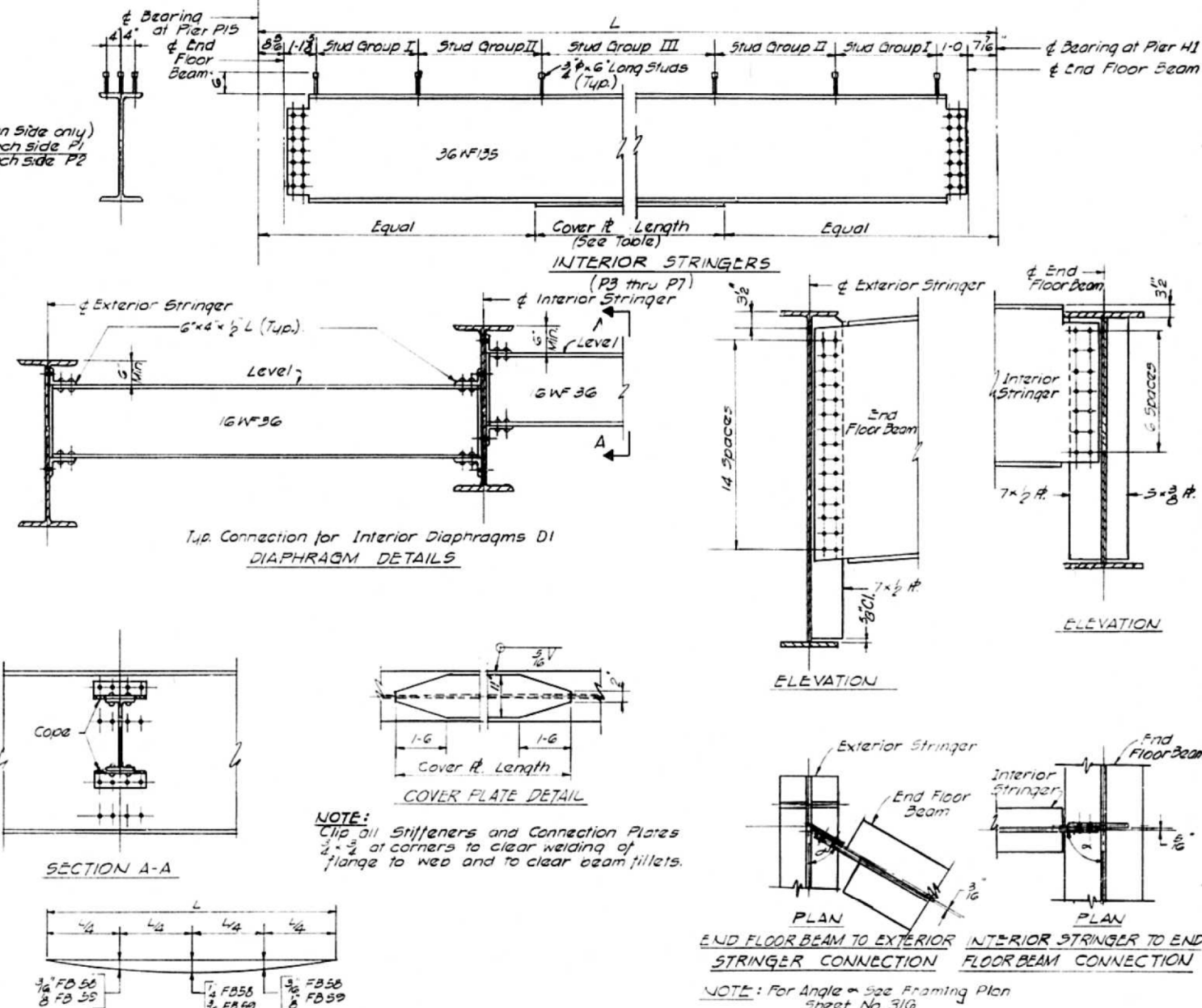
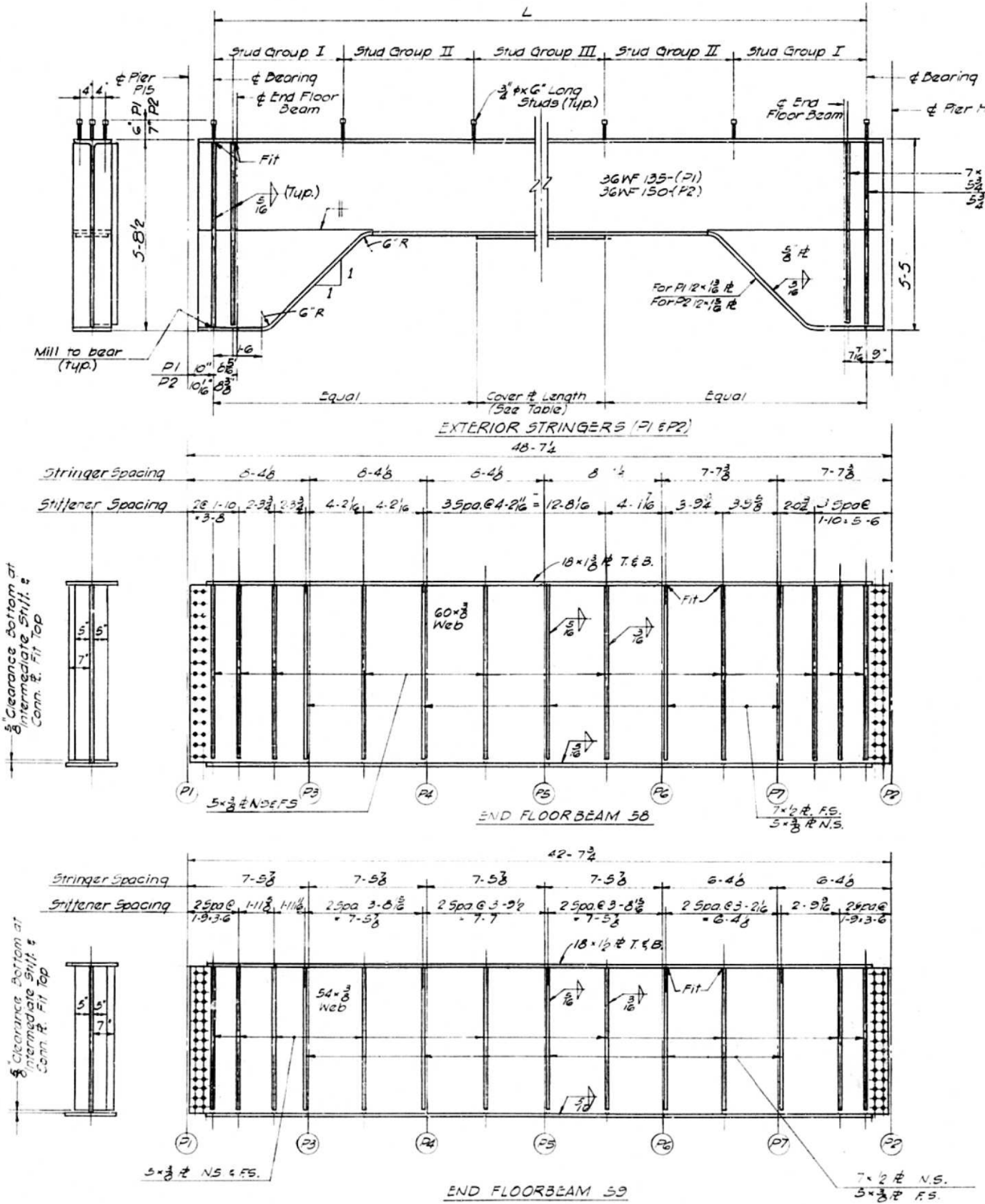
EXISTING STRUCTURE DETAILS SN 082-0203

SCALE:	SHEET 16 OF 18 SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	82-3HVB-2-BP	ST. CLAIR	22	20
		CONTRACT NO. 76L42		
		ILLINOIS FED. AID PROJECT		

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVF 8E-1	ST. CLAIR	247	188
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	



STRINGERS & COVER PLATE LENGTHS - SHEAR CONNECTOR SPACING					
STRINGER	LENGTH	COVER PLATE	STUD GROUP I	STUD GROUP II	STUD GROUP III
P1	34.02	11x2x36-6	28@5"	16@7 1/4"	13@10 1/2"
P3	57.92	11x2x40-0	28@5"	16@7 1/4"	14@10 1/2"
P4	61.7	11x2x45-3	30@5"	18@7 1/4"	13@10 1/2"
P5	65.44	11x1x51-0	32@5"	20@7 1/4"	13@10 1/2"
P6	69.12	11x2x53-0	32@5"	22@7 1/4"	14@10 1/2"
P7	72.62	11x2x57-3	32@5 1/2"	23@7 1/4"	11@11 1/2"
P2	76.06	11x2x56-6	32@5 1/2"	25@7 1/2"	16@11 1/2"

NOTES:
For Framing Plan See Sheet No. 316

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

STEEL DETAILS
SPAN P15
POPLAR STREET BRIDGE APPROACHES
RAMP "P"

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

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

SHEET
318 OF 526

FOR INFORMATION ONLY

DESIGNED BY: HJ
DRAWN BY: JF
CHECKED BY: LW
APPROVED BY: KA

USER NAME = smithma	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 12/15/2017	DATE -	REVISED -

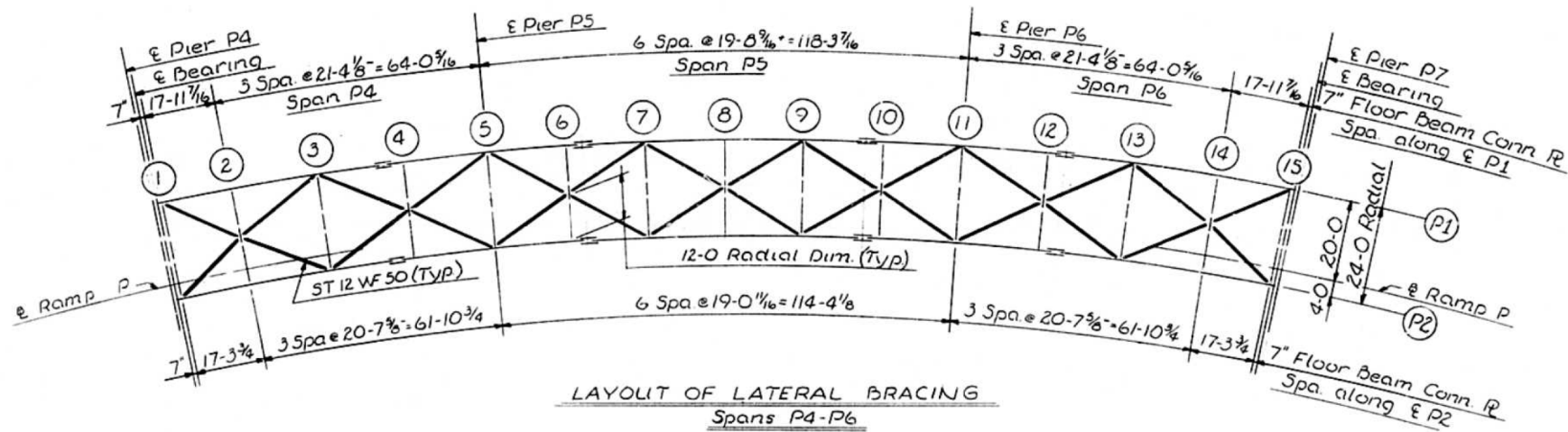
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE DETAILS SN 082-0203

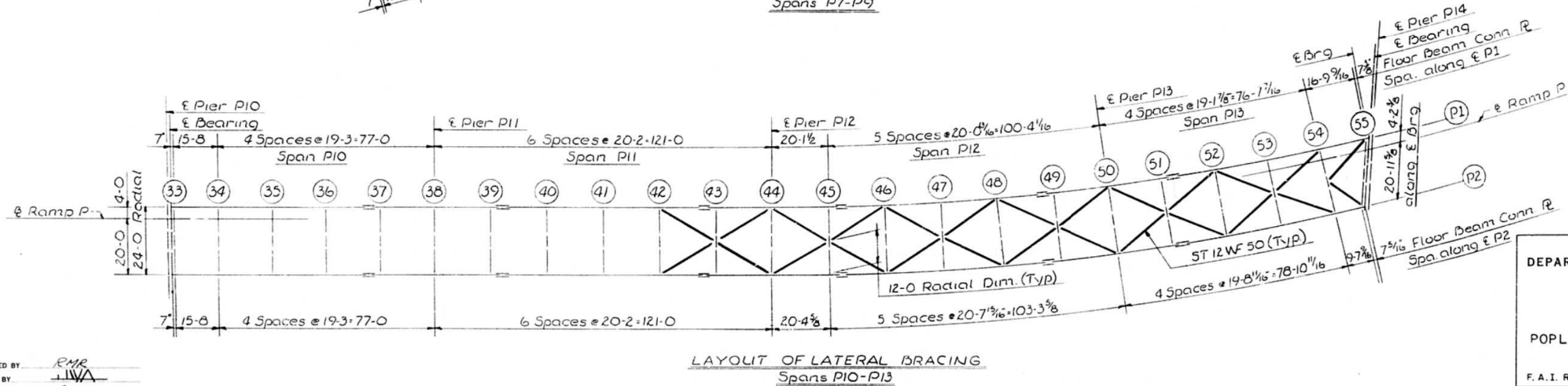
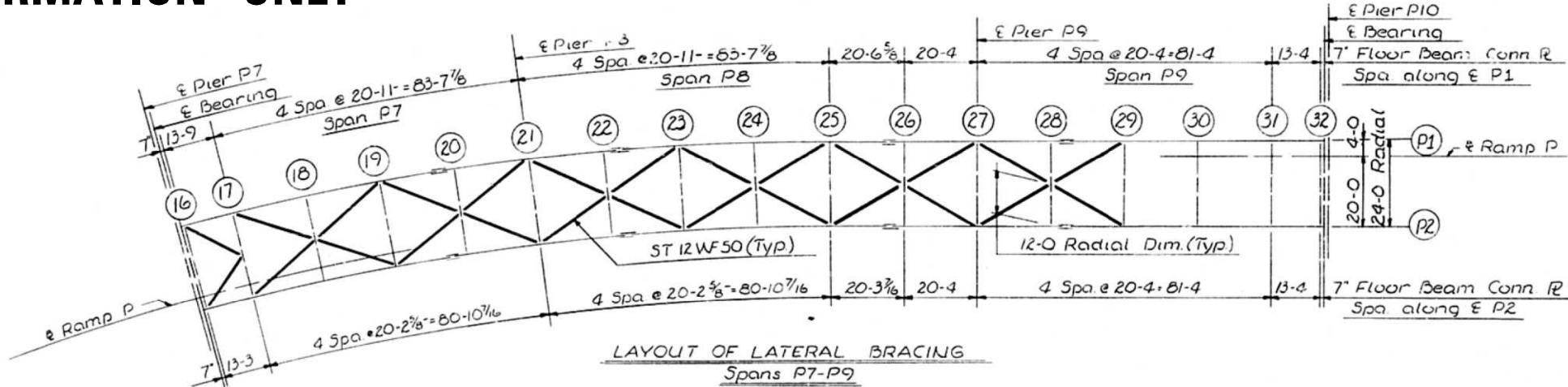
SCALE: SHEET 17 OF 18 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	82-3HVB-2-BP	ST. CLAIR	22	21
CONTRACT NO. 76L42				
ILLINOIS FED. AID PROJECT				

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. - 70	82-3HVF&E-1	ST. CLAIR	247	226
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



FOR INFORMATION ONLY



DESIGNED BY: RMR
DRAWN BY: JWA
CHECKED BY: RMR
APPROVED BY: KA

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

LATERAL BRACING
SPANS P4 THRU P13
POPLAR STREET BRIDGE APPROACHES
RAMP "P"

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

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

SHEET
356 OF 526

USER NAME = smithma	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 12/15/2017	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE DETAILS SN 082-0203

SCALE: SHEET 18 OF 18 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	82-3HVB-2-BP	ST. CLAIR	22	22
				CONTRACT NO. 76L42

ILLINOIS FED. AID PROJECT