ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82-3HVB	ST. CLAIR	289	1
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT I-IG-70-1(69)10		

P-90-067-00

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

F.A.I. ROUTE 70 SECTION 82-3HVB

PROJECT I-IG 70-1(69)0

POPLAR STREET BRIDGE APPROACHES

ST. CLAIR COUNTY

C-98-059-64

DESCRIPTION OF PROJECT:

SECTION 82-3HVB INCLUDES THE FURNISHING AND FABRICATING OF STRUCTURAL STEEL AND THE COMPLETE CONSTRUCTION OF THE FOLLOWING:

ROADWAYS B AND C	TWO-4 SPAN CONTINUOUS UNITS SPANS: 94'-120'-120'-94'	WELDED PLATE GIRDERS WITH ROLLED FLOORBEAMS AND STRINGERS ON R. C. PIERS
	EIGHT-3 SPAN CONTINUOUS UNITS SPANS: 2 @ 77'-100'-77' 1 EACH @ 77'-100'-76' 76'-100'-77' 90'-116'-90' 90'-115'-90' 92'-117'-92' * 97'-124'-97'	CURVED WELDED PLATE GIRDERS WITH ROLLED FLOORBEAMS AND STRINGERS ON R.C. PIERS (* AND SEMI-THRU ABUTMENTS)
	FIVE-4 SPAN CONTINUOUS UNITS SPANS: 3 @ 93'-119'-119'-93' 2 @ 96'-125'-125'-96'	
	ONE-5 SPAN CONTINUOUS UNIT SPANS: 106'-136'-175'-175'-90' *	
	TWO SIMPLE SPANS @ 77'	COMPOSITE WF ON R.C. PIERS
	ONE SIMPLE SPAN - 110'	COMPOSITE PLATE GIRDER ON R.C. PIERS
ROADWAYS A, B, C & D	ONE SIMPLE SPAN - VARIES FROM 116'-10 1/8" TO 93'-1 1/2"	
ROADWAY A	ONE-4 SPAN CONTINUOUS UNIT SPANS: 120'-135'-135'-120'	CURVED WELDED PLATE GIRDERS WITH ROLLED FLOORBEAMS AND STRINGERS ON R.C. PIERS
RAMP M	ONE-3 SPAN CONTINUOUS UNIT SPANS: 96'-122'-96'	
RAMP S	ONE-5 SPAN CONTINUOUS UNIT SPANS: 96'-125'-124'-125'-96'	
ROADWAY D	PIER D17	REINFORCED CONCRETE
ROADWAY G	PIER G2	REINFORCED CONCRETE
RAILROAD TRESTLE	FOUR SIMPLE SPANS @ [illegible]	WELDED PLATE GIRDERS ON R.C. PIERS AND STEEL BENTS

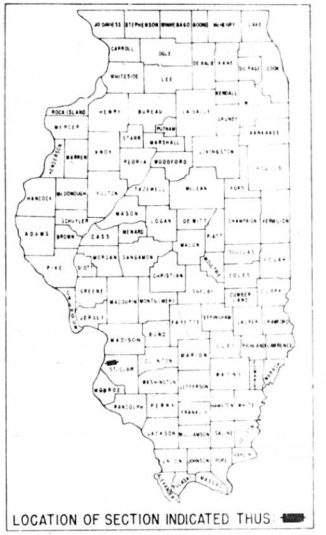
THE POPLAR STREET SPECIAL APPROACHES FOR THIS SECTION CARRY ROADWAYS B AND C OVER THE TRACKS OF THE TERMINAL RAILROAD ASSOCIATION, GULF, MOBILE, AND OHIO, ILLINOIS CENTRAL AND SOUTHERN RAILROADS, RAMP M AND PART OF MACARTHUR ROADS. THEY ALSO CARRY ROADWAY C OVER ROADWAYS B, D AND H, RAMP M OVER ROADWAYS B, C, D AND G, AND RAMP S OVER ROADWAYS A, B, C AND G.

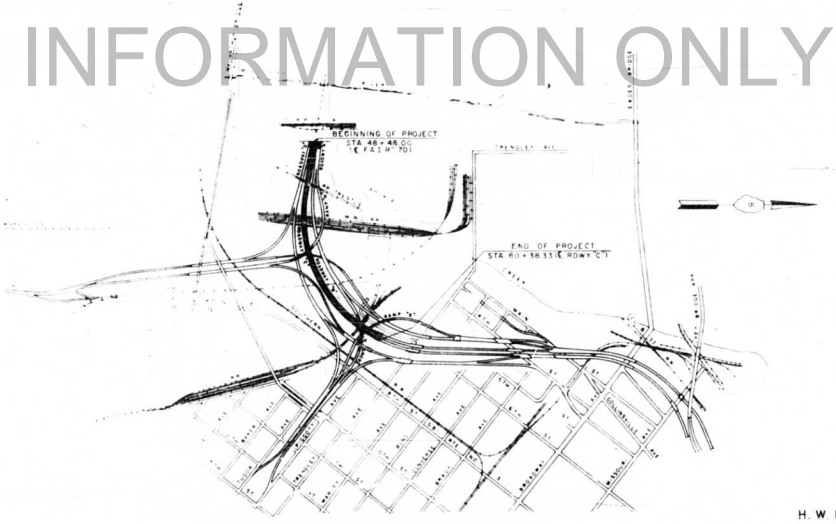
THE RAILROAD TRESTLE IN THIS SECTION CARRIES THE N. 20TH RAILROAD APPROACH TO THE MACARTHUR BRIDGE OVER ROADWAY A, B AND C AND RAMP M.

THIS SECTION INCLUDES THE EMBANKMENT FOR RAMP D BETWEEN PIER D17 AND G1 (FROM STATION 17+62.35 TO STATION [illegible])

THIS SECTION ALSO INCLUDES ROUGH GRADING, DRAINAGE AND ELECTRICAL FACILITIES AND ALL APPURTENANT AND COLLATERAL WORK NECESSARY TO COMPLETE THE PROJECT, AS SHOWN ON THE PLANS.

NOTE
FOR INDEX OF SHEETS AND SUMMARY OF QUANTITIES SEE SHEET NO. 3





CITY OF EAST ST. LOUIS
LOCATION PLAN

LENGTH OF PROJECT
3190.33 FT. = .604 MILES
ROAD CLASSIFICATION 4454-T-50

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

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
APPROVED
DISTRICT ENGINEER DATE

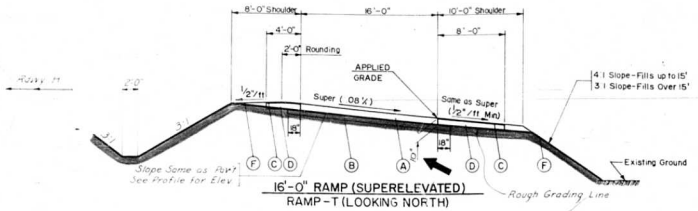
STATE OF ILLINOIS
DEPT. OF PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS
SUBMITTED [illegible]
RECOMMENDED May 18, 1965
PASSED May 21, 1965
APPROVED May 21, 1965
APPROVED May 21, 1965

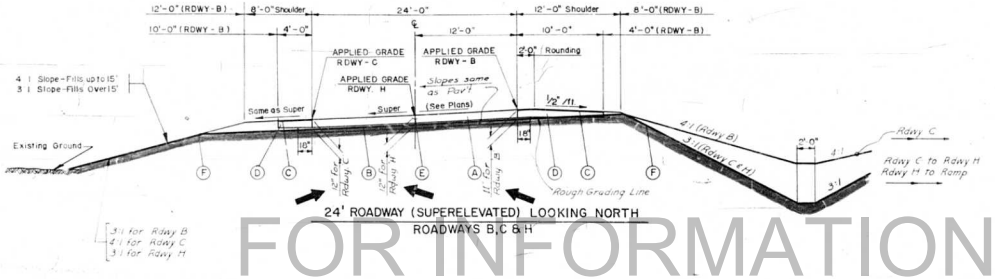
CONTRACT NO. 2-1130

2859
August 15, 1964

ST. CLAIR COUNTY SECTION 82-3HVB F.A.I. ROUTE 70 PROJECT I-IG-70-1(69)10

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB	ST. CLAIR	289	2
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		





Denotes Rough Grading for Sec ~~82-3HVB~~ BY OTHERS

Denotes Offsets Pertaining to Sec ~~82-3HVB~~ BY OTHERS

LEGEND (For Information Only)

- (A) PORTLAND CEMENT CONCRETE PAVEMENT
- (B) STABILIZED SUB-BASE 4"
- (C) A-1 TREATMENT
- (D) STABILIZED SHOULDERS (BITUMINOUS AGGREGATE MIXTURE)
- (E) METAL OR SAWED LONGITUDINAL JOINT
- (F) SEEDING
- (G) CONCRETE GUTTER, TYPE B
- (H) SODDING
- (M) STEEL PLATE BEAM GUARD RAIL
- (V) CONCRETE GUTTER, TYPE B (SPECIAL)
- (P) LONGITUDINAL CONSTRUCTION JOINT

THE NOMINAL THICKNESS FOR SUB-BASE GRANULAR MATERIAL AND GRAVEL OR CRUSHED STONE. BASE AND SURFACE COURSES ARE SHOWN ON THE TYPICAL SECTIONS, STANDARDS, SCHEDULES OR SPECIAL DETAILS. THE CONSTRUCTED THICKNESS OF THE ABOVE ITEMS SHALL NOT BE LESS THAN 90 PER CENT OF THE NOMINAL THICKNESS AT ANY LOCATION.

THE THICKNESS OF BITUMINOUS MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROADWAY & RAMP
TYPICAL SECTIONS FOR ROUGH GRADING

SCALE: 1" = 6'

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	3
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

INDEX OF SHEETS
SECTION 82-3HVB

SUMMARY OF QUANTITIES
SECTION 82-3HVB

QUANTITY I 89.12%	QUANTITY IG 10.88%	TOTAL	UNIT	ITEM	CODE NO.
~~547~~	~~67~~	~~614~~	~~IN DIA~~	~~TREE REMOVAL (6 TO 15 INCH DIAMETER)~~	~~X100011~~
~~93~~	~~11~~	~~104~~	~~IN DIA~~	~~TREE REMOVAL (OVER 15 INCH DIAMETER)~~	~~X100012~~
~~101~~	~~12~~	~~113~~	~~CU YD~~	~~SPECIAL EXCAVATION~~	~~X100101~~
25,272	3,085	28,357	CU YD	EMBANKMENT	016001
~~121~~	~~15~~	~~136~~	~~CU YD~~	~~TRENCH BACKFILL~~	~~X200501~~
105	13	118	EACH	EXPANSION BOLTS 7/8 INCH	049006
945	114	1060	CU YD	CLASS A EXCAVATION FOR STRUCTURES	050001
18,986	2,318	21,304	CU YD	CLASS X CONCRETE	052003
30,571	3,732	34,303	SQ YD	PROTECTIVE COAT	052021
10,024,476	1,223,814	11,248,290	POUND	FURNISHING & ERECTING STRUCTURAL STEEL	054001
44,560	5,440	50000	FBM	TREATED TIMBER	057001
2,228	272	2500	POUND	HARDWARE	057003
3,537,529	431,871	3,969,400	POUND	REINFORCEMENT BARS	059001
390	48	438	LIN FT	FURNISHING CREOSOTED PILES 20.1 TO 30 FEET	060005
390	48	438	LIN FT	DRIVING TIMBER PILES	060008
104,076	12,706	116,782	LIN FT	DRIVING CONCRETE PILES	060043
104,076	12,706	116,782	LIN FT	FURNISHING CONCRETE PILES	060044
68	8	76	EACH	TEST PILE CONCRETE	060047
1.8	0.2	2	EACH	NAME PLATES	061001
~~36~~	~~04~~	~~4~~	~~LIN FT~~	~~STORM SEWER, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS II, 27"~~	~~X600219~~
~~187~~	~~23~~	~~210~~	~~LIN FT~~	~~STORM SEWER, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN AND SEWER PIPE, CLASS II, 24"~~	~~X600224~~
~~190~~	~~26~~	~~220~~	~~LIN FT~~	~~STORM SEWER, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN AND SEWER PIPE, CLASS II, 30"~~	~~X600226~~
~~308~~	~~34~~	~~342~~	~~LIN FT~~	~~STORM SEWER, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN AND SEWER PIPE, CLASS II, 36"~~	~~X600228~~
~~962~~	~~44~~	~~406~~	~~LIN FT~~	~~STORM SEWER, TYPE 3, REINFORCED CONCRETE, (STORM DRAIN) CLASS III, 60"~~	~~X600291~~
~~4.5~~	~~0.5~~	~~5.0~~	~~EACH~~	~~MANHOLE, TYPE A, 4' DIAMETER, TYPE 1 FRAME, CLOSED LID~~	~~X700106~~
~~6.3~~	~~0.7~~	~~7~~	~~EACH~~	~~FILLING EXISTING MANHOLES~~	~~X700601~~
~~0.9~~	~~0.1~~	~~1~~	~~EACH~~	~~FILLING EXISTING INLETS~~	~~X700603~~
650	84	734	SQ YD	SLOPE WALL 4 INCH	083002
~~45~~	~~5~~	~~50~~	~~SQ YD~~	~~PAVEMENT REMOVAL AND BITUMINOUS REPLACEMENT, TYPE 2, 8 INCH~~	~~X601610~~
299	36	335	LIN FT	CONDUIT IN TRENCH, 3-INCH DIA., GALVANIZED STEEL	L00008
285	35	320	LIN FT	CONDUIT ATTACHED TO STRUCTURE, 1-1/4 INCH DIA., GALVANIZED STEEL	L00054
6,891	841	7732	LIN FT	CONDUIT ATTACHED TO STRUCTURE, 2-INCH DIA., GALVANIZED STEEL	L00056
94	12	106	LIN FT	CONDUIT ATTACHED TO STRUCTURE, 2-1/2 INCH DIA., GALVANIZED STEEL	L00057
193	24	217	LIN FT	CONDUIT IN CONCRETE 1 1/4" DIA GALVANIZED STEEL	L00111
389	47	436	LIN FT	CONDUIT IN CONCRETE, 3-INCH DIA., ASBESTOS CEMENT	L00134
		640	LIN. FT.	TEMPORARY WOVEN WIRE FENCE, 4'	Z01156
29	3	32	EACH	POLE, ALUMINUM, ANCHOR BASE, 10 FT. MH, 4 FT. MAST ARM	L01227

QUANTITY I 89.12%	QUANTITY IG 10.88%	TOTAL	UNIT	ITEM	CODE NO.
29	3	32	EACH	LUMINAIRE, MERCURY VAPOR: WITH BUILT IN REGULATOR BALLAST: 400 WATTS	L02403
29	3	32	EACH	LAMP, MERCURY VAPOR 400 WATTS, TYPE H33-1CD	L02812
0.9	0.1	1	EACH	HAND HOLE, TYPE "A"	L03263
0.9	0.1	1	LUMP SUM	CONTROL INSTALLATION (CONTROL CENTER NO. 1)	L03064
687	84	771	LIN FT	TRENCH AND BACKFILL	L04100
3023	369	3392	LIN FT	ELECTRIC CABLE IN CONDUIT, 600V (NEOPRENE-RUBBER INSULATED) 1/C NO. 10	106036
14,134	1728	15,862	LIN FT	ELECTRIC CABLE IN CONDUIT, 600 V (NEOPRENE-RUBBER INSULATED) 1/C NO. 6	106038
5984	730	6714	LIN FT	ELECTRIC CABLE IN CONDUIT, 600 V (NEOPRENE-RUBBER INSULATED) 1/C NO. 2	106041
176	22	198	LIN FT	ELECTRIC CABLE IN CONDUIT, 600V (NEOPRENE-RUBBER INSULATED) 1/C NO. 3/0	106892
1265	154	1419	LIN FT	ELECTRIC CABLE IN CONDUIT, 5.0 KV (POLYETHYLENE INSULATED) 1/C NO. 6	L05065
22	3	25	LIN FT	ELECTRIC CONDUCTOR IN CONDUIT (BARE ANNEALED COPPER) NO. 8	106173
1.8	0.2	2	EACH	LUMINAIRE MERCURY VAPOR UNDERPASS TYPE 175 WATTS	L04969
1.8	0.2	2	EACH	LAMP MERCURY VAPOR 175 WATTS TYPE H39-22KB	L04987
513	63	576	LIN FT	*ELECTRIC CONDUCTOR IN CONDUIT (BARE ANNEALED COPPER NO. 6 (ALUMINUM POLE)	106174
0.9	0.1	1	LUMP SUM	SYSTEM GROUNDING	L05066
13,022	1590	14612	LIN FT	ALUMINUM HANDRAIL	Z00004
0.9	0.1	1	LUMP SUM	BRIDGE SEAT SEALANT	Z01023
6.2	0.8	7	EACH	STANDARD SIGNS R2-1-4860(50)	Z20326
2.7	0.3	3	EACH	STANDARD SIGNS R8-5-4836	Z20424
0.9	0.1	1	EACH	STANDARD SIGNS W4-1-48	Z20494
0.9	0.1	1	LUMP SUM	WROUGHT IRON PIPE DRAIN SYSTEM	X02791
0.9	0.1	1	LUMP SUM	REMOVAL & REPLACEMENT OF EXISTING TRACK FACILITIES	X02792
0.9	0.1	1	LUMP SUM	RAILROAD PROTECTIVE SERVICE	X01065
27	3	30	LIN FT	PERMANENT BARRICADES	X00870
0.9	0.1	1	EACH	ENGINEER'S FIELD OFFICE	Z 01378
0.9	0.1	1	EACH	ENGINEER'S FIELD LABORATORY	Z 01379
~~170~~	~~22~~	~~200~~	~~LIN FT~~	~~STORM SEWER TYPE 3, (RCP) CL III 18"~~	~~X600291~~
~~9~~	~~1~~	~~10~~	~~LIN FT~~	~~STORM SEWER TYPE 2 (RCP) CL II, 15"~~	~~X600222~~
~~0.9~~	~~0.1~~	~~1~~	~~EACH~~	~~CATCH BASIN TYPE A with TYPE 8 Grate~~	~~X700502~~

GENERAL NOTES

THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 2, 1958, THE SUPPLEMENTAL SPECIFICATIONS EFFECTIVE MARCH 2, 1964 AND THE SUPPLEMENTAL SPECIFICATIONS FOR HIGHWAY SIGNING EFFECTIVE MARCH 1, 1963 SHALL GOVERN THIS CONSTRUCTION.

ALL ELEVATIONS REFER TO U.S.G.S. MEAN SEA LEVEL DATUM.

THE PROFILE GRADE LINE REFERS TO THE GRADE ELEVATION AT THE POINT SHOWN ON THE TYPICAL SECTIONS AND PLANS.

ALL EXPOSED EXISTING PAVEMENT SHALL BE REMOVED WITHIN THE LIMITS OF RIGHT OF WAY, OR AS DIRECTED BY THE ENGINEER.

WHERE A CONSTRUCTED EMBANKMENT SLOPE INTERSECTS EXISTING PAVEMENT, THE PAVEMENT SHALL BE REMOVED TO A POINT WHERE THE CONSTRUCTED EMBANKMENT IS TWO FEET ABOVE THE EXISTING PAVEMENT.

BUILDINGS WITHIN R.O.W. LIMITS HAVE BEEN REMOVED OR ARE IN THE PROCESS OF BEING REMOVED DOWN TO EXISTING GROUND LEVEL AND BASEMENTS BACKFILLED WITH DEBRIS FILL.

THE FOLLOWING UTILITY COMPANIES HAVE FACILITIES WITHIN THE LIMITS OF CONSTRUCTION WHICH MAY REQUIRE ADJUSTMENTS:
EAST ST. LOUIS AND INTERURBAN WATER COMPANY
ILLINOIS POWER COMPANY
SOUTHWESTERN BELL TELEPHONE COMPANY
UNION ELECTRIC COMPANY

THE PLUS AND MINUS SIGNS SHOWN ON THE PROFILE GRADES ARE DETERMINED BY THE DIRECTION OF PROPOSED TRAFFIC.

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

INDEX OF SHEETS
SUMMARY OF QUANTITIES
GENERAL NOTES

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

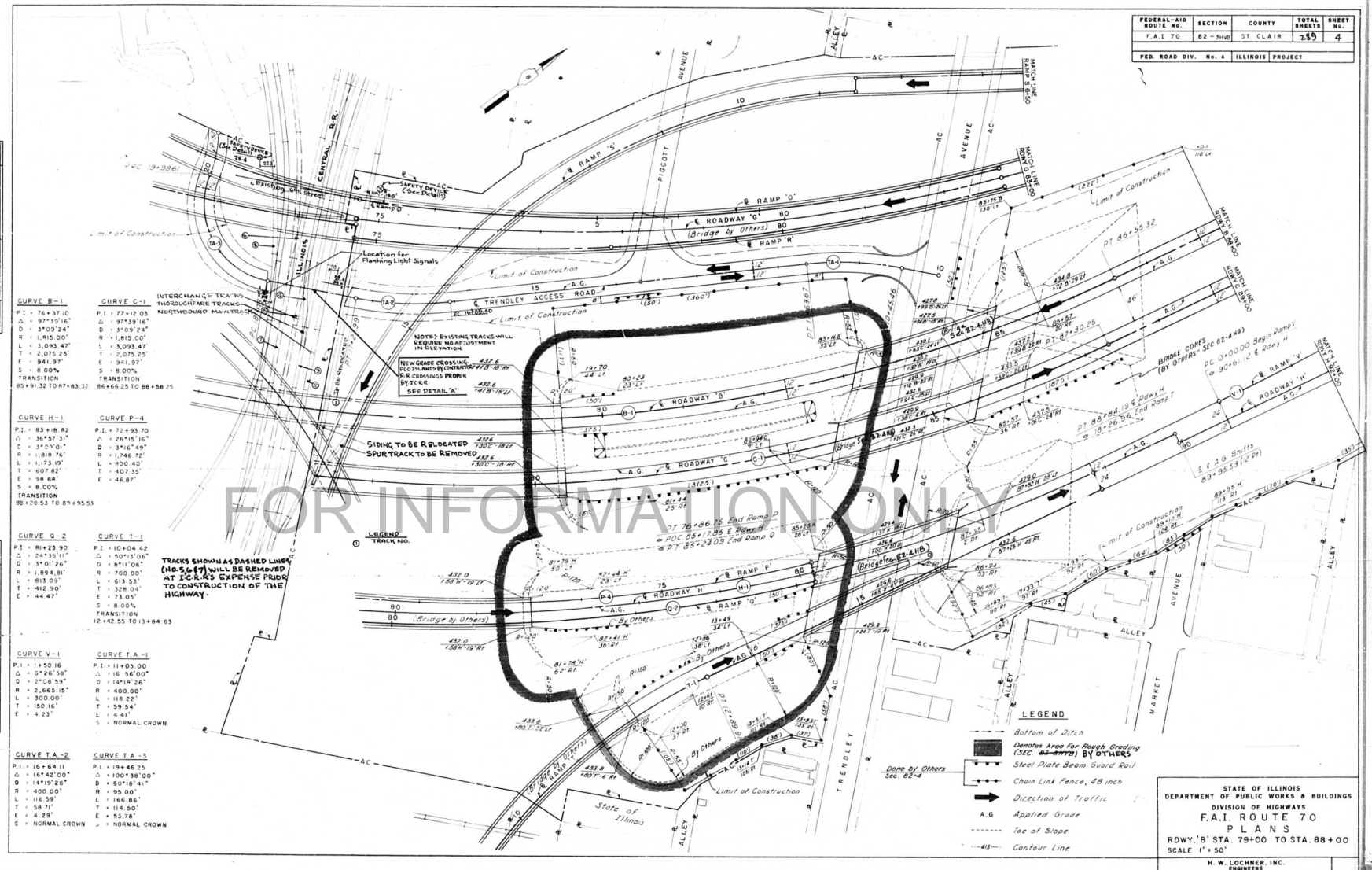
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

X NON-PARTICIPATING
7/2/65 - DLW - Deleted CPM

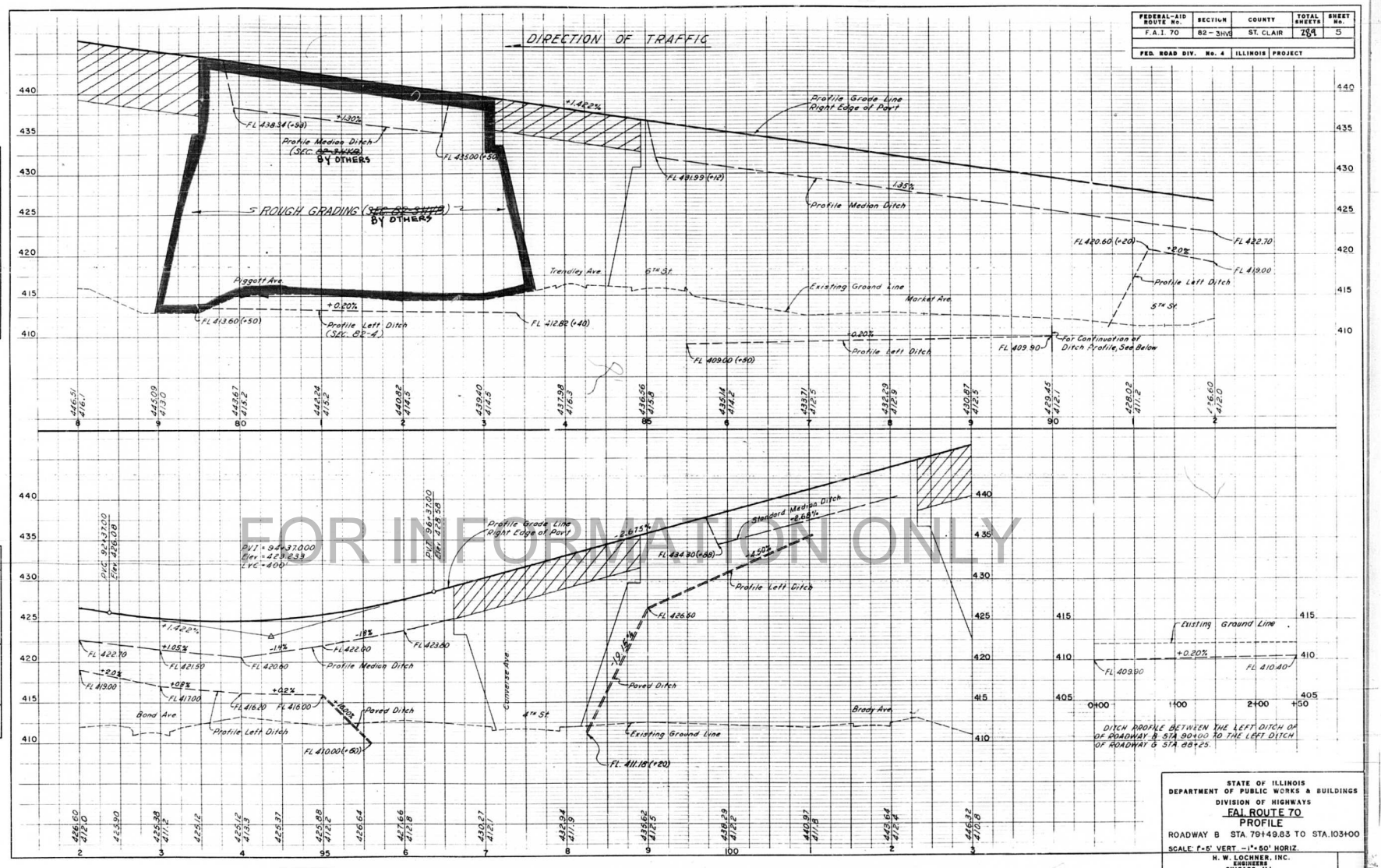
Permanent Barricades Added
CPM 6-24-65

Revised Cl 'x' Conc from 21,150.3 C.Y. to 21,308 C.Y.
WLL 6/15/66

Revised 640 Lin. Ft. W.W. Fence



FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82 - 3HVB	ST. CLAIR	269	5
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		



STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

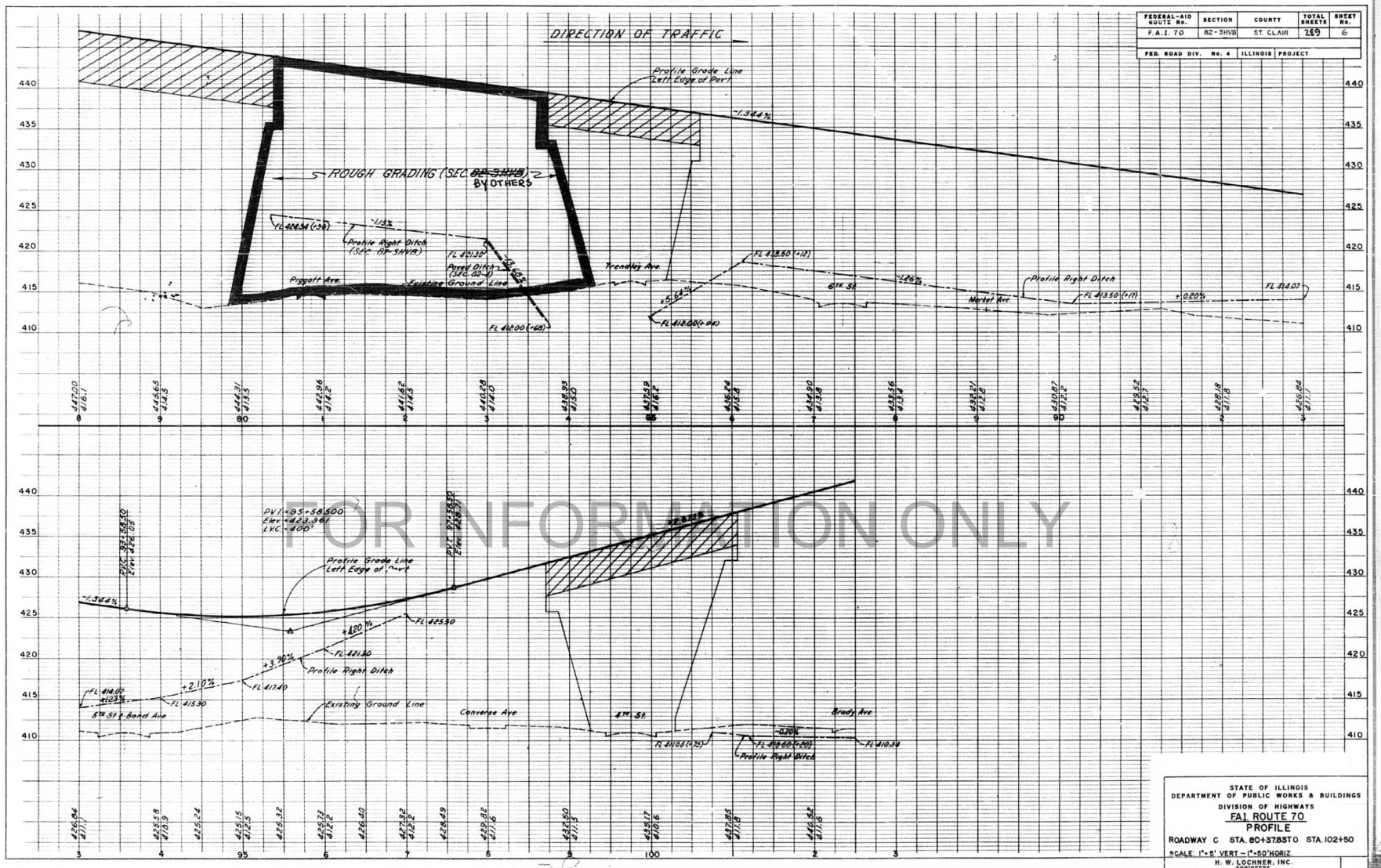
FAI ROUTE 70

PROFILE

ROADWAY B STA 79+49.83 TO STA 103+00

SCALE: 1"=5' VERT. - 1"=50' HORIZ.

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



FEDERAL-AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVB	ST. CLAIR	269	6
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

FAI ROUTE 70

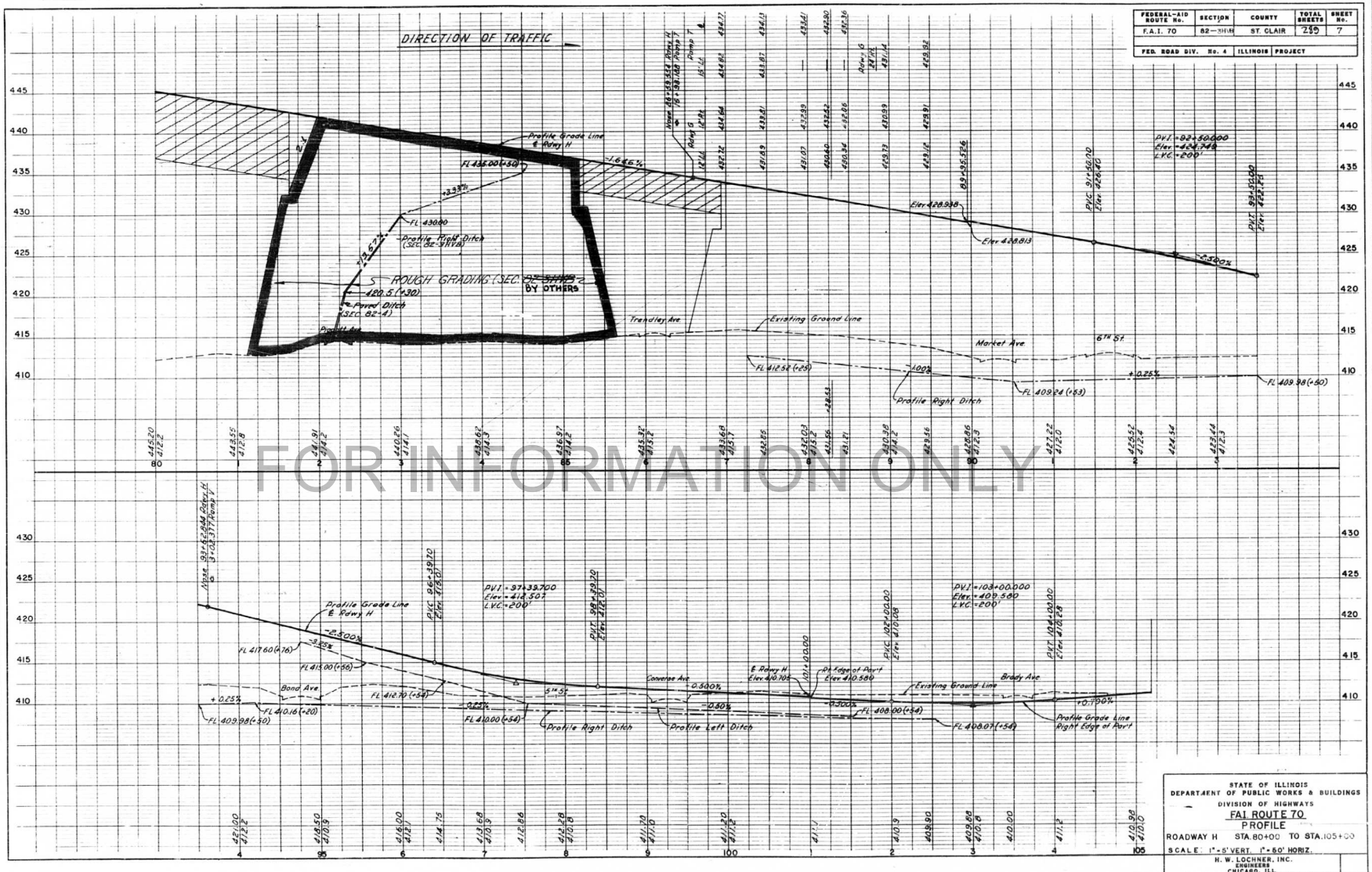
PROFILE

ROADWAY C STA. 80+37.85 TO STA. 102+50

SCALE: 1"=5' VERT. - 1"=50' HORIZ.

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

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3H,R	ST. CLAIR	295	7
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		



STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

FAI ROUTE 70
PROFILE
ROADWAY H STA. 80+00 TO STA. 105+00
SCALE: 1"=5' VERT. 1"=50' HORIZ.

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

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB	ST. CLAIR	249	8
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		

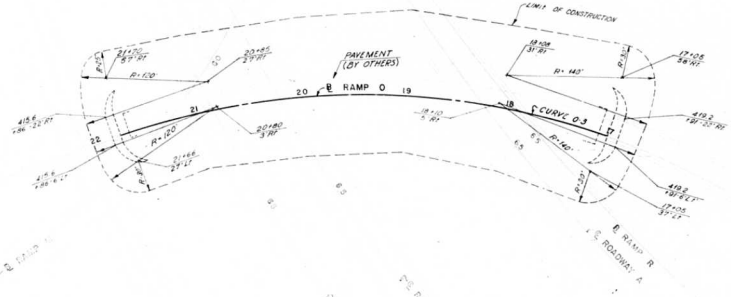
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

FAI ROUTE 70
PROFILE
RAMP U - RAMP V - RAMP T

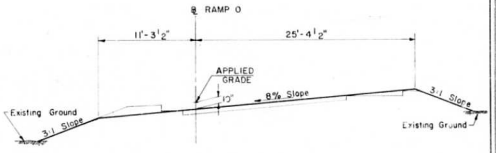
SCALE: 1" = 5' VERT. 1" = 50' HORIZ.

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

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB	ST. CLAIR	259	9
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		



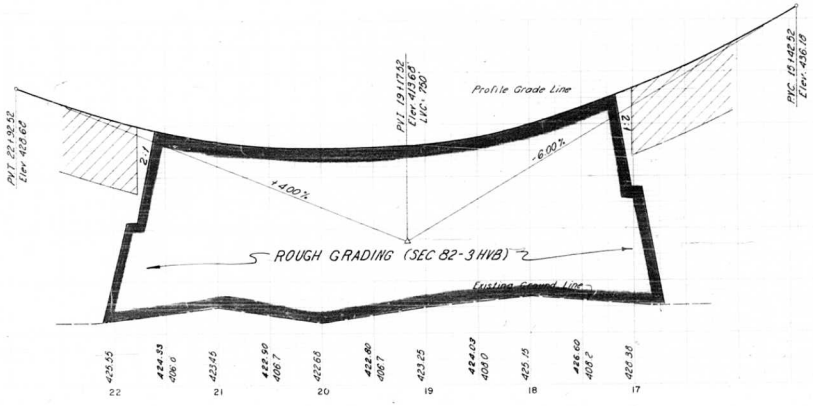
NOTE HEAVY LINE INDICATES SECTION TO BE GRADED UNDER THIS CONTRACT. LIGHT LINE INDICATES ULTIMATE PAVING CROSS SECTION AND IS FOR REFERENCE ONLY.



TYPICAL GRADING SECTION
NOT TO SCALE

CURVE O-3

PI	68+39.48
Δ	63° 26' 37"
D	9° 11' 00"
R	700'
L	775.11'
T	432.70'
E	122.94'
S	8%

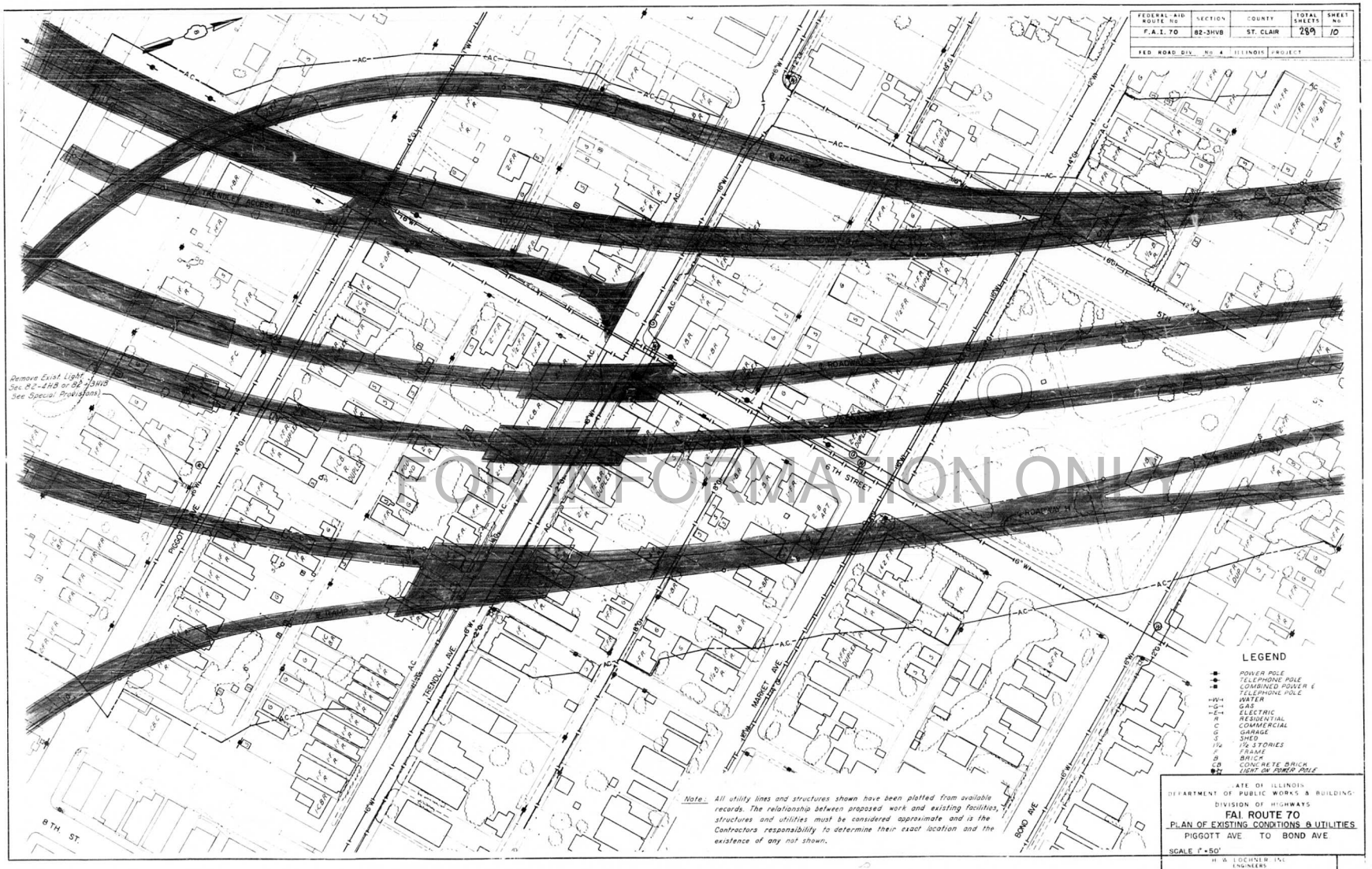


STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

PLAN & PROFILE
RAMP O
& TYPICAL GRADING SECTION

SCALE: 1"=50' HORIZ.
1"=5' VERT.

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



FEDERAL-AID ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.I. 70	82-3HVB	ST. CLAIR	289	10
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

Note: All utility lines and structures shown have been platted from available records. The relationship between proposed work and existing facilities, structures and utilities must be considered approximate and is the Contractors responsibility to determine their exact location and the existence of any not shown.

LEGEND

- POWER POLE
- TELEPHONE POLE
- COMBINED POWER & TELEPHONE POLE
- WATER
- GAS
- ELECTRIC
- R RESIDENTIAL
- C COMMERCIAL
- G GARAGE
- S SHED
- 1½ 1½ STORIES
- F FRAME
- B BRICK
- CB CONCRETE BRICK
- LIGHT ON POWER POLE

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

F.A.I. ROUTE 70
PLAN OF EXISTING CONDITIONS & UTILITIES
PIGGOTT AVE TO BOND AVE

SCALE 1" = 50'

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

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F A I 70	82-3HVB	ST CLAIR	259	11
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		

DRAINAGE NOTES

THE ENDS OF EXISTING SANITARY OR STORM SEWERS WHICH ARE TO BE ABANDONED AND NOT TO BE INCORPORATED INTO THE IMPROVEMENT ARE TO BE SEALED AS SPECIFIED IN SPECIAL PROVISIONS. COST OF SUCH WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

ADDED EXPENSE WHICH WILL BE INVOLVED IN CONNECTING EXISTING SEWERS TO PROPOSED STRUCTURES OR PROPOSED SEWERS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE STRUCTURE INVOLVED.

ALL EXISTING DRAINAGE STRUCTURES WHICH ARE TO BE INCORPORATED INTO THE PROPOSED DRAINAGE SYSTEM SHALL BE CLEANED. COST OF THE WORK SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE CONTRACT.

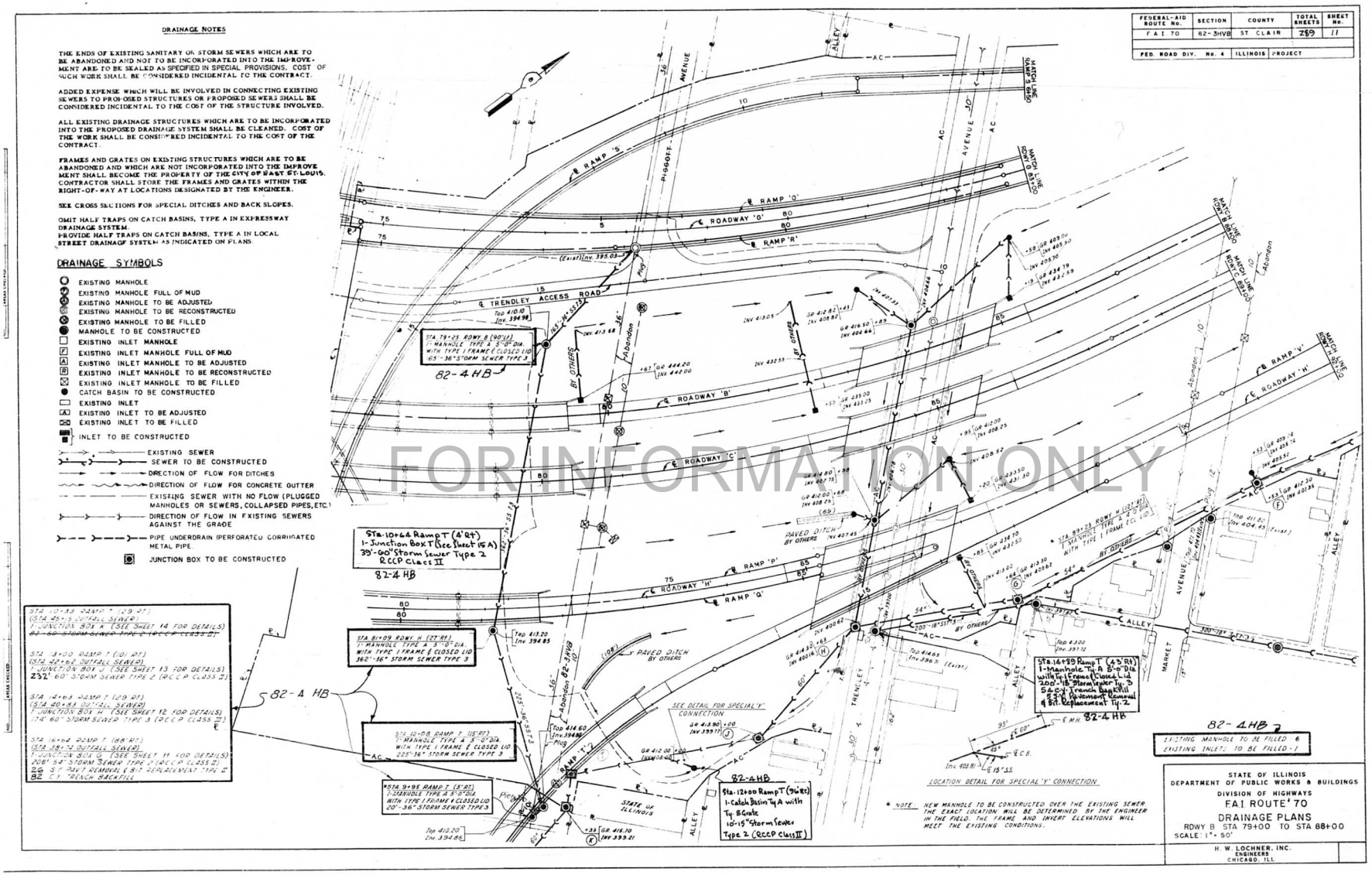
FRAMES AND GRATES ON EXISTING STRUCTURES WHICH ARE TO BE ABANDONED AND WHICH ARE NOT INCORPORATED INTO THE IMPROVEMENT SHALL BECOME THE PROPERTY OF THE CITY OF EAST ST. LOUIS. CONTRACTOR SHALL STORE THE FRAMES AND GRATES WITHIN THE RIGHT-OF-WAY AT LOCATIONS DESIGNATED BY THE ENGINEER.

SEE CROSS SECTIONS FOR SPECIAL DITCHES AND BACK SLOPES.

OMIT HALF TRAPS ON CATCH BASINS, TYPE A IN EXPRESSWAY DRAINAGE SYSTEM.
PROVIDE HALF TRAPS ON CATCH BASINS, TYPE A IN LOCAL STREET DRAINAGE SYSTEM AS INDICATED ON PLANS.

DRAINAGE SYMBOLS

- EXISTING MANHOLE
- EXISTING MANHOLE FULL OF MUD
- EXISTING MANHOLE TO BE ADJUSTED
- EXISTING MANHOLE TO BE RECONSTRUCTED
- EXISTING MANHOLE TO BE FILLED
- MANHOLE TO BE CONSTRUCTED
- EXISTING INLET MANHOLE
- EXISTING INLET MANHOLE FULL OF MUD
- EXISTING INLET MANHOLE TO BE ADJUSTED
- EXISTING INLET MANHOLE TO BE RECONSTRUCTED
- EXISTING INLET MANHOLE TO BE FILLED
- CATCH BASIN TO BE CONSTRUCTED
- EXISTING INLET
- EXISTING INLET TO BE ADJUSTED
- EXISTING INLET TO BE FILLED
- INLET TO BE CONSTRUCTED
- EXISTING SEWER
- SEWER TO BE CONSTRUCTED
- DIRECTION OF FLOW FOR DITCHES
- DIRECTION OF FLOW FOR CONCRETE GUTTER
- EXISTING SEWER WITH NO FLOW (PLUGGED MANHOLES OR SEWERS, COLLAPSED PIPES, ETC.)
- DIRECTION OF FLOW IN EXISTING SEWERS AGAINST THE GRADE
- PIPE UNDERDRAIN (PERFORATED CORRUGATED METAL PIPE.
- JUNCTION BOX TO BE CONSTRUCTED



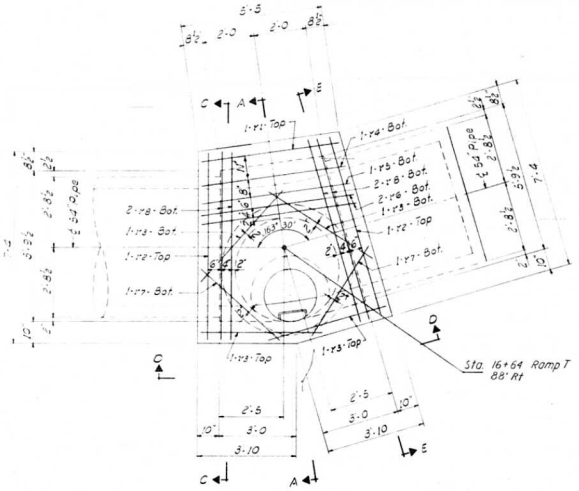
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

FAI ROUTE 70
DRAINAGE PLANS

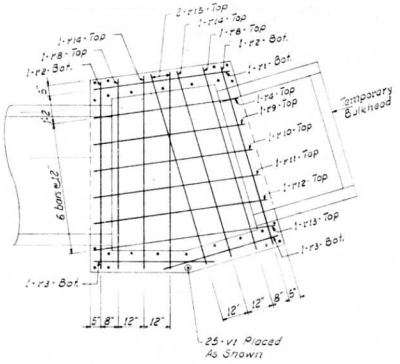
RDWY B STA 79+00 TO STA 88+00
SCALE: 1" = 50'

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVB	ST. CLAIR	289	12
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

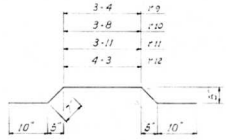


TOP VIEW



SECTION B-B

BAR LIST				
Mark	No.	Size	Length	Type
r1	2	5	8'-4	
r2	4		7'-2	
r3	6		4'-6	
r4	2		5'-7	
r5	1		5'-10	
r6	2		6'-0	
r7	2		4'-3	
r8	6		7'-3	
r9	1		6'-2	
r10	1		6'-8	
r11	1		6'-9	
r12	1		7'-1	
r13	1		7'-1	
r14	2		7'-5	
r15	2	5	7'-7	
V1	25	5	6'-10	
V2	8		4'-3	
V3	4		5'-3	
V4	8		4'-6	
V5	4	5	7'-2	

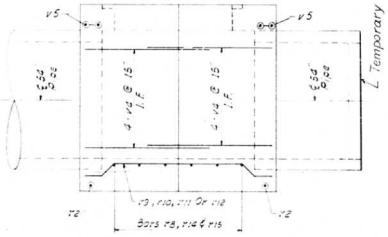


BARS r9, r10, r11 & r12

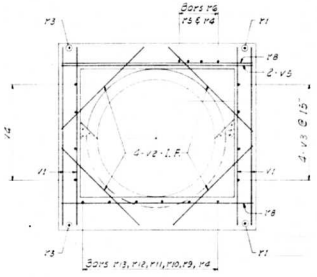
QUANTITIES		
Class 'X' Concrete	C.Y.	*10.0
Reinforcement bars	Lbs.	*500
Storm Sewer Type 2 (R.C.C.P. II) - 54"	L.F.	* 4

* BY OTHERS

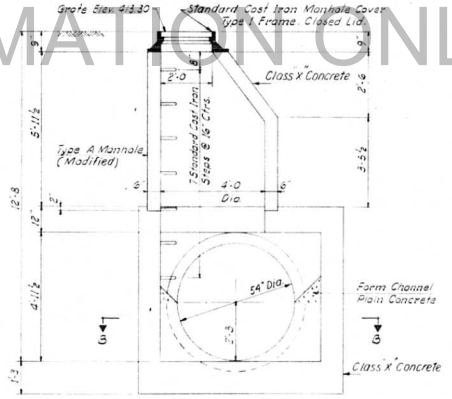
(For Information Only)



ELEVATION O-O



SECTION C-C
SEC. E-E OPP HAND



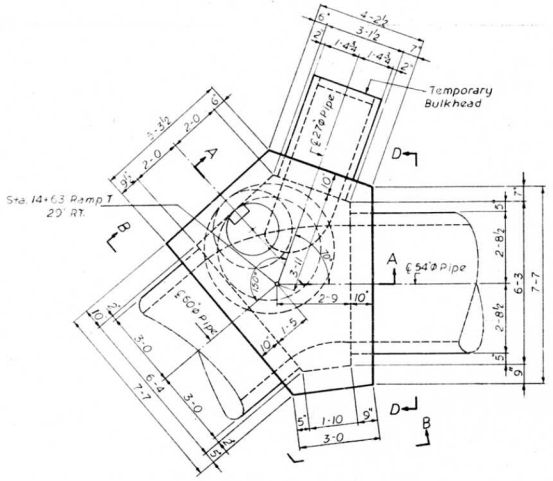
SECTION A-A

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

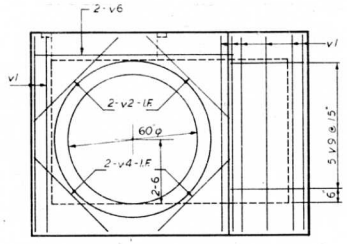
DETAILS FOR JUNCTION BOX "G"

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

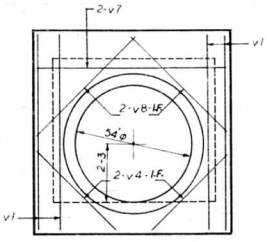
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVB	ST. CLAIR	289	18
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



TOP VIEW



ELEVATION B-B

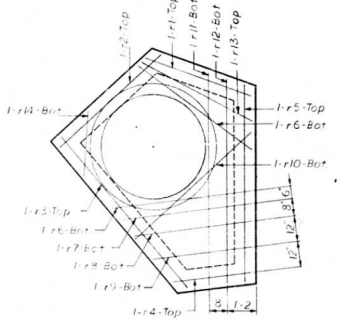


ELEVATION D-D

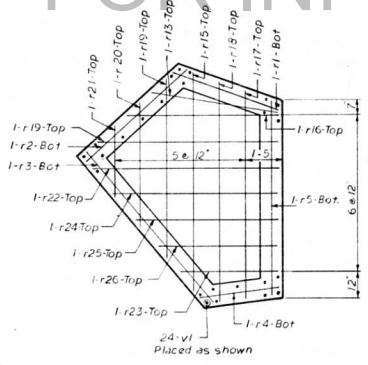
BAR LIST

Mark	No.	Size	Length	Type	Mark	No.	Size	Length	Type
r1	2	5	4-5	—	r21	1	5	2-11	
r2	2		5-4	—	r22	1		7-4	
r3	2		7-6	—	r23	1		4-0	
r4	2		3-2	—	r24	1		6-9	
r5	2		7-7	—	r25	1		5-10	
r6	2		5-6	—	r26	1	5	5-0	
r7	1		5-0	—					
r8	1		4-6	—					
r9	1		3-10	—	v1	24	5	7-0	—
r10	1		6-2	—	v2	2		4-6	—
r11	1		8-3	—	v3	4		5-3	—
r12	1		7-10	—	v4	6		3-9	—
r13	2		4-9	—	v5	4		3-0	—
r14	1		2-6	—	v6	2		7-9	—
r15	1		8-6	—	v7	2		7-3	—
r16	1		5-10	—	v8	2		5-0	—
r17	1		8-1	⌒	v9	5	5	2-9	—
r18	1		8-6	⌒					
r19	2		7-2	⌒					
r20	1	5	5-0	⌒					

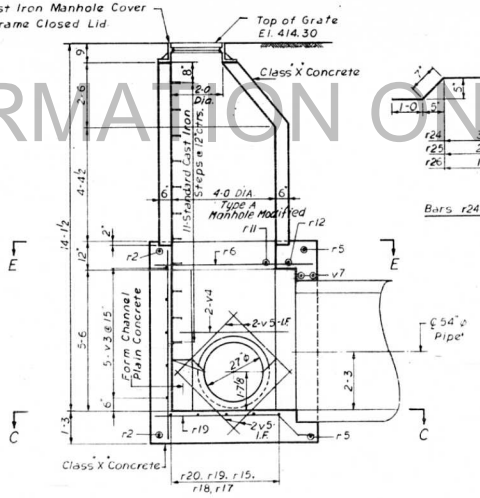
(For Information Only)



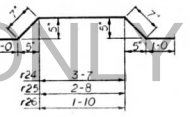
SECTION E-E



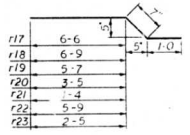
SECTION C-C



SECTION A-A



Bars r24 thru r26



Bars r17 thru r23

QUANTITIES		
Class X Concrete	Cu. Yds.	*9.3
Reinforcement Bars	Lbs.	*510
Storm Sewer Type 2 (R.C.C.P. Class II)-27"	Lin. Ft.	*4

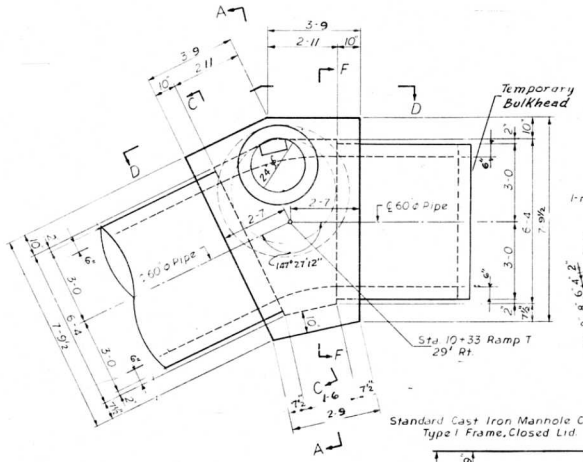
* By Others

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

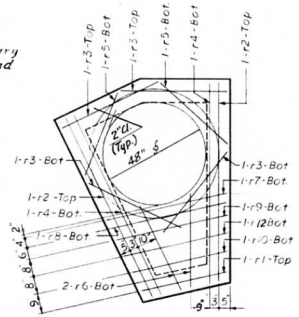
DETAILS FOR JUNCTION BOX "H"

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

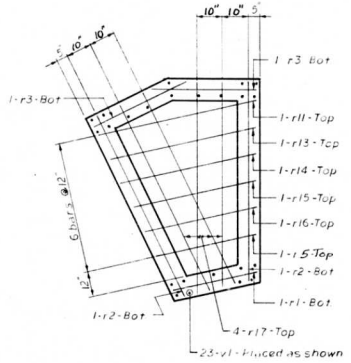
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVB	ST. CLAIR	789	14
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



TOP VIEW



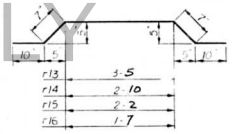
SECTION E-E

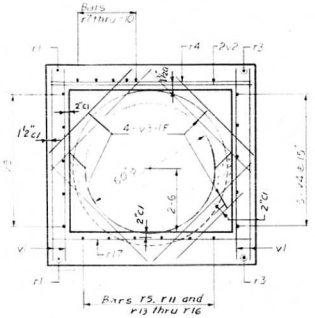


SECTION B-B

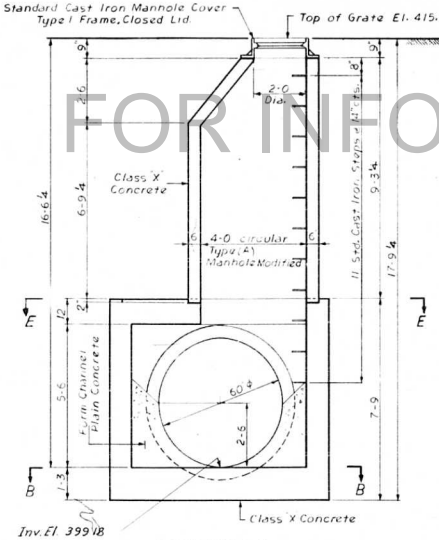
BAR LIST				
Mark	No.	Size	Length	Type
r1	2	5	2-9	
r2	4	4	7-7	
r3	6		3-11	
r4	2		7-8	
r5	3		3-6	
r6	2		3-9	
r7	1		4-6	
r8	1		4-4	
r9	1		4-0	
r10	1		3-3	
r11	1		6-6	
r12	1		3-7	
r13	1		6-3	
r14	1		5-8	
r15	1		5-0	
r16	1	4	4-5	
r17	4	5	7-10	
v1	23	5	7-5	
v2	4	4	7-7	
v3	8		4-6	
v4	5	4	2-10	
v5	10	5	4-0	

(For Information Only)

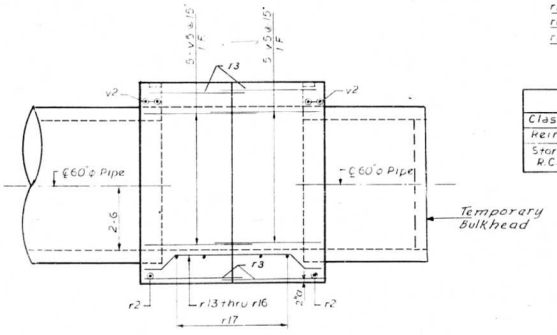




SECTION C-C
SECTION F-F OPPOSITE



SECTION A-A



SECTION D-D

QUANTITIES		
Class 'X' Concrete	Cu Yds	*8.4
Reinforcement Bars	lbs	*490
Storm Sewer Type 2 R.C.C.P. Class II - 60"	Lin. Ft	*4

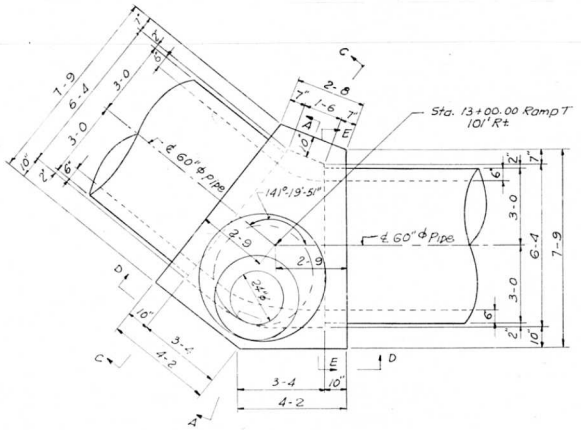
* By Others

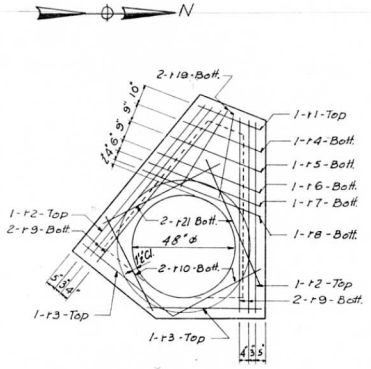
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

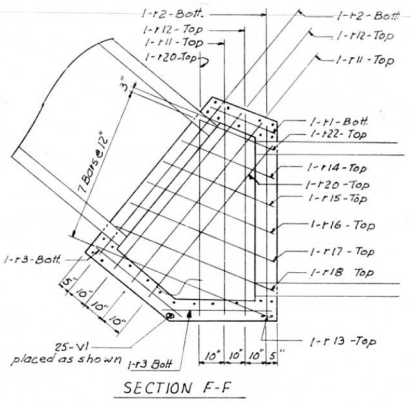
DETAILS FOR JUNCTION BOX 'K'

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVB	ST. CLAIR	769	15
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		





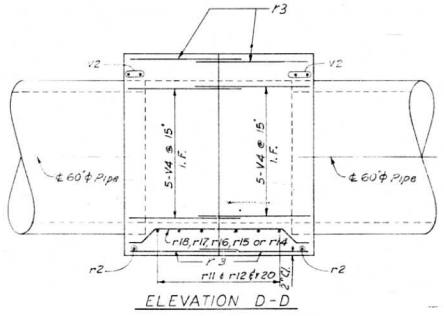


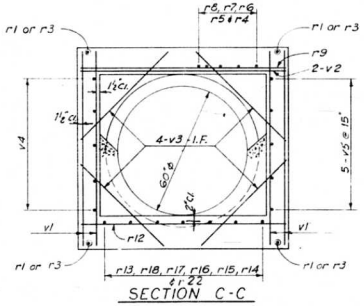
BAR LIST				
Mark	No.	Size	Length	Type
r1	2	5	2-9	—
r2	4		7-6	—
r3	4		4-4	—
r4	1		3-4	—
r5	1		3-9	—
r6	1		4-5	—
r7	1		4-8	—
r8	1		4-11	—
r9	4		7-7	—
r10	2		3-9	—
r11	2		8-2	—
r12	2		7-10	—
r13	1		7-3	—
r14	1		4-1	⌒
r15	1		4-10	⌒
r16	1		5-6	⌒
r17	1		6-3	⌒
r18	1		7-0	⌒
r19	2	5	3-6	—
r20	2	5	7-8	—
r21	2	5	5-3	—
r22	1	5	3-0	—
V1	25	5	7-4	—
V2	4		7-6	—
V3	8		4-9	—
V4	10	5	4-3	—
V5	5	5	2-9	

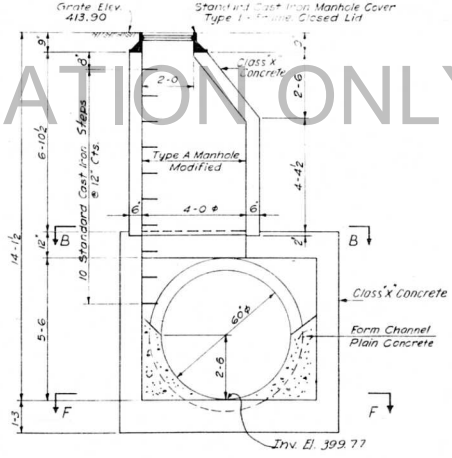
(For Information Only)

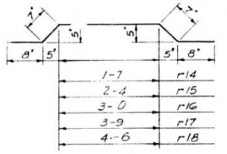
QUANTITIES		
Class "x" Concrete	CY	*
Reinforcement Bars	LBS.	550

* By others







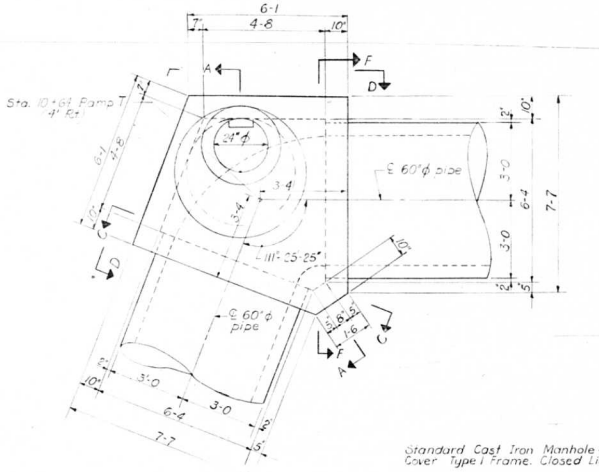


STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

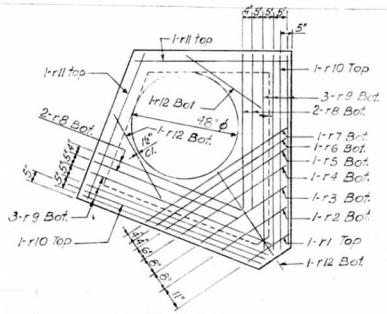
DETAILS FOR JUNCTION BOX "J"

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

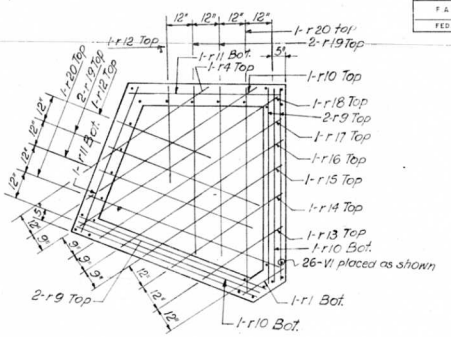
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HV8	ST. CLAIR	28	15-A
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



TOP VIEW



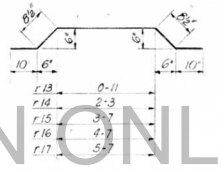
SECTION E-E

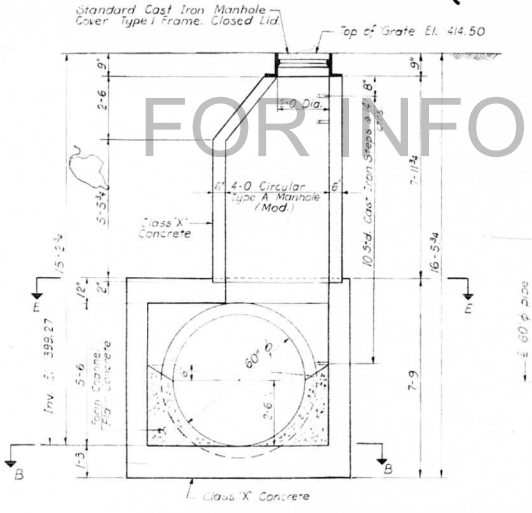


SECTION B-B

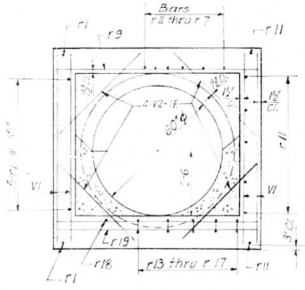
(For Information Only)

BAR LIST				
Mark	No	Size	Length	Type
r1	7	#5	1-10	
r2	1	#5	2-10	
r3	1	#5	3-10	
r4	2	#6	4-0	
r5	1	#6	5-6	
r6	1	#6	5-11	
r7	1	#6	6-4	
r8	4	#5	5-10	
r9	11	#6	7-3	
r10	5	#5	7-6	
r11	14	#5	5-11	
r12	5	#5	3-8	
r13	1	#6	4-0	
r14	1	#6	5-4	
r15	1	#6	6-8	
r16	1	#6	7-8	
r17	1	#6	8-8	
r18	1	#6	9-0	
r19	4	#5	6-3	
r20	2	#5	7-10	
V1	26	#5	7-4	
V2	8	#5	4-6	

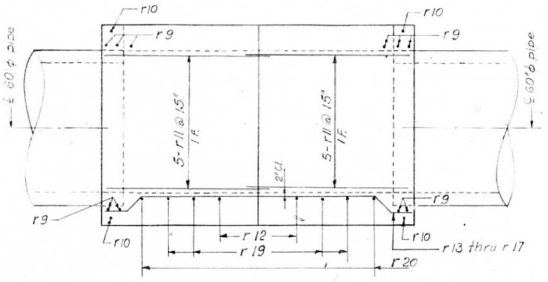




SECTION A-A



SECTION C-C
SECTION F-F OPPOSITE



SECTION D-D

QUANTITIES		
Class "X" Concrete	Cu. Yds.	*9.8
Reinforcement Bars	Lbs.	*690

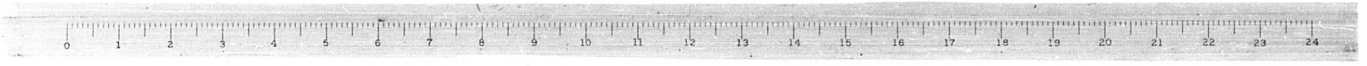
* By Others

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

DETAILS FOR JUNCTION BOX "T"

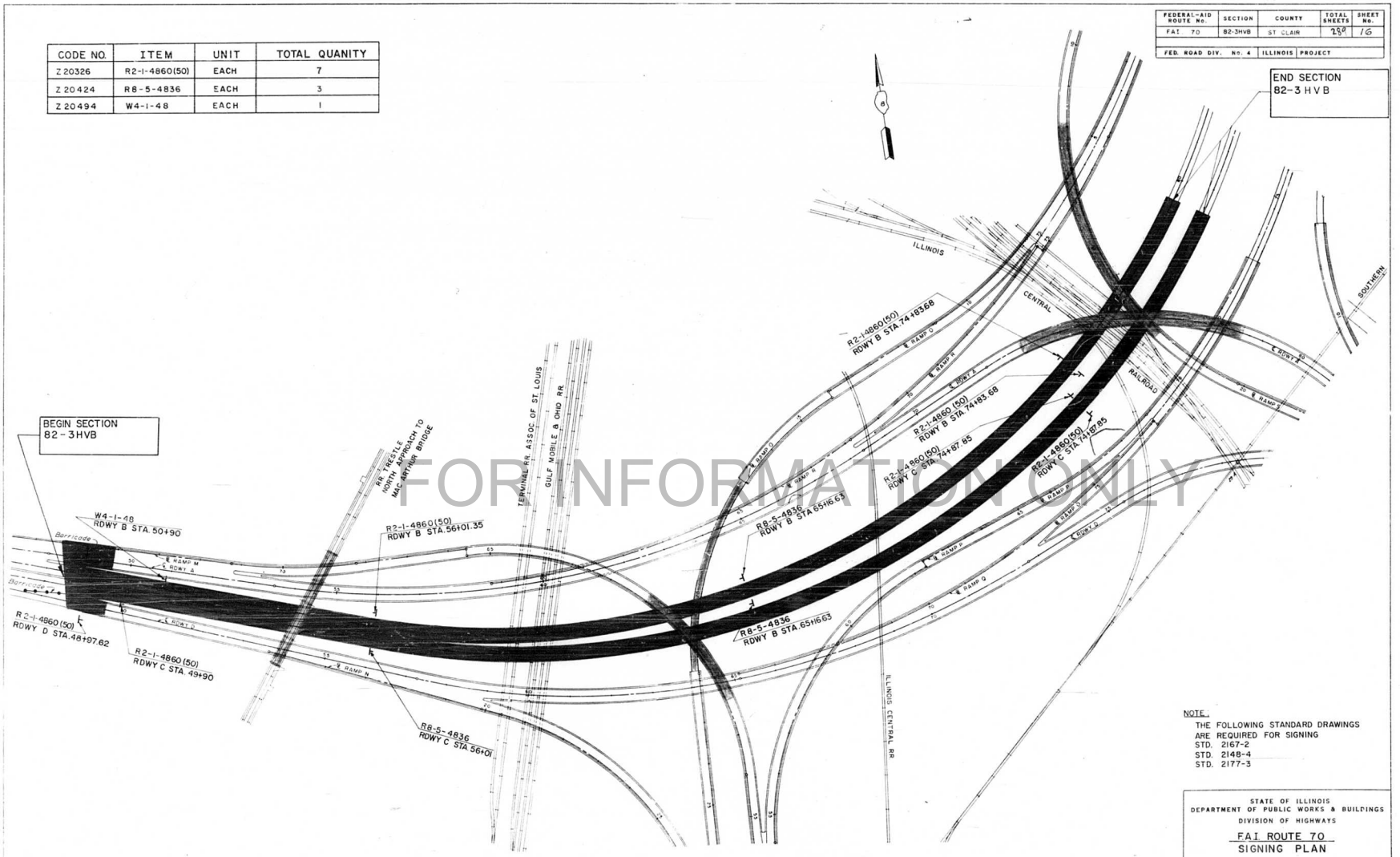
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

DESIGNED BY
DRAWN BY
CHECKED BY
APPROVED BY



CODE NO.	ITEM	UNIT	TOTAL QUANITY
Z 20326	R2-1-4860(50)	EACH	7
Z 20424	R8-5-4836	EACH	3
Z 20494	W4-1-48	EACH	1

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
FAI 70	82-3HVB	ST CLAIR	25	16
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		



NOTE.
THE FOLLOWING STANDARD DRAWINGS ARE REQUIRED FOR SIGNING
STD. 2167-2
STD. 2148-4
STD. 2177-3

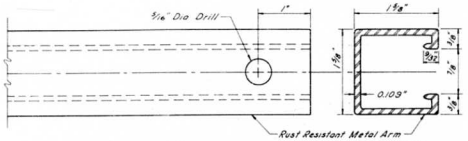
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

FAI ROUTE 70
SIGNING PLAN

SCALE: 1" = 100'

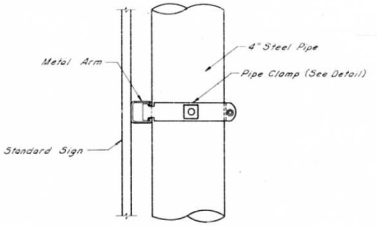
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILL.

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB	ST. CLAIR	289	17
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		

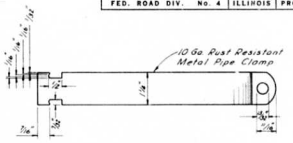


ELEVATION SIDE VIEW

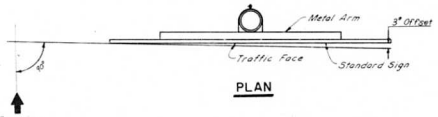
METAL ARM DETAIL
FULL SCALE



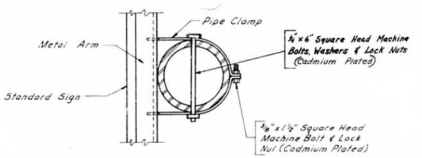
SIDE VIEW



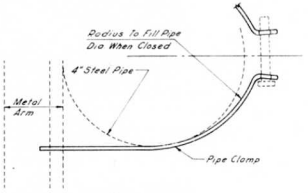
SIDE VIEW



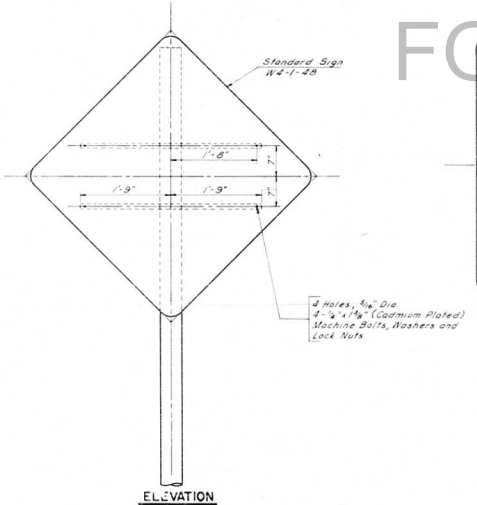
PLAN



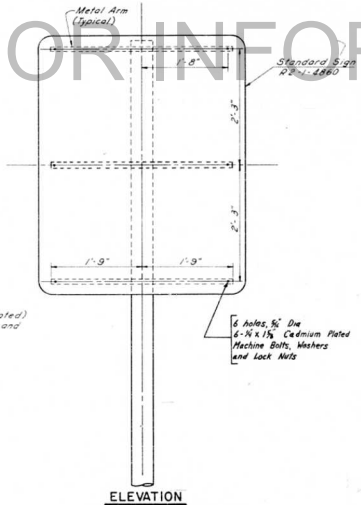
PLAN
CLAMP DETAIL
SCALE: 11/4"=1'-0"



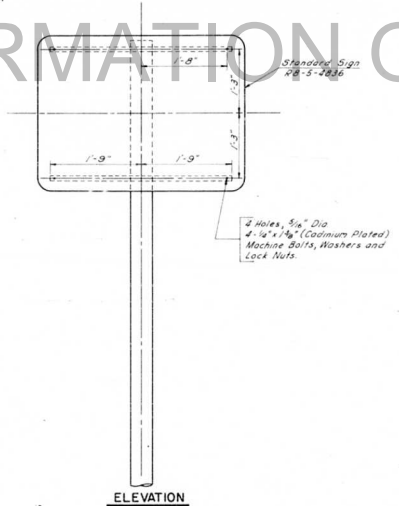
PIPE CLAMP
SCALE: 1"=2"



ELEVATION



ELEVATION
MOUNTING DETAILS
SCALE: 1"=1'-0"



ELEVATION

Notes: All Materials used in mounting Sign to 4" Steel Pipe shall have the approval of the Engineer.

For lengths of 4" Steel Pipe see Sign Bracket Details, Sheet No 163.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

SIGN MOUNTING DETAILS

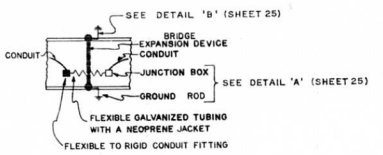
SCALE AS NOTED

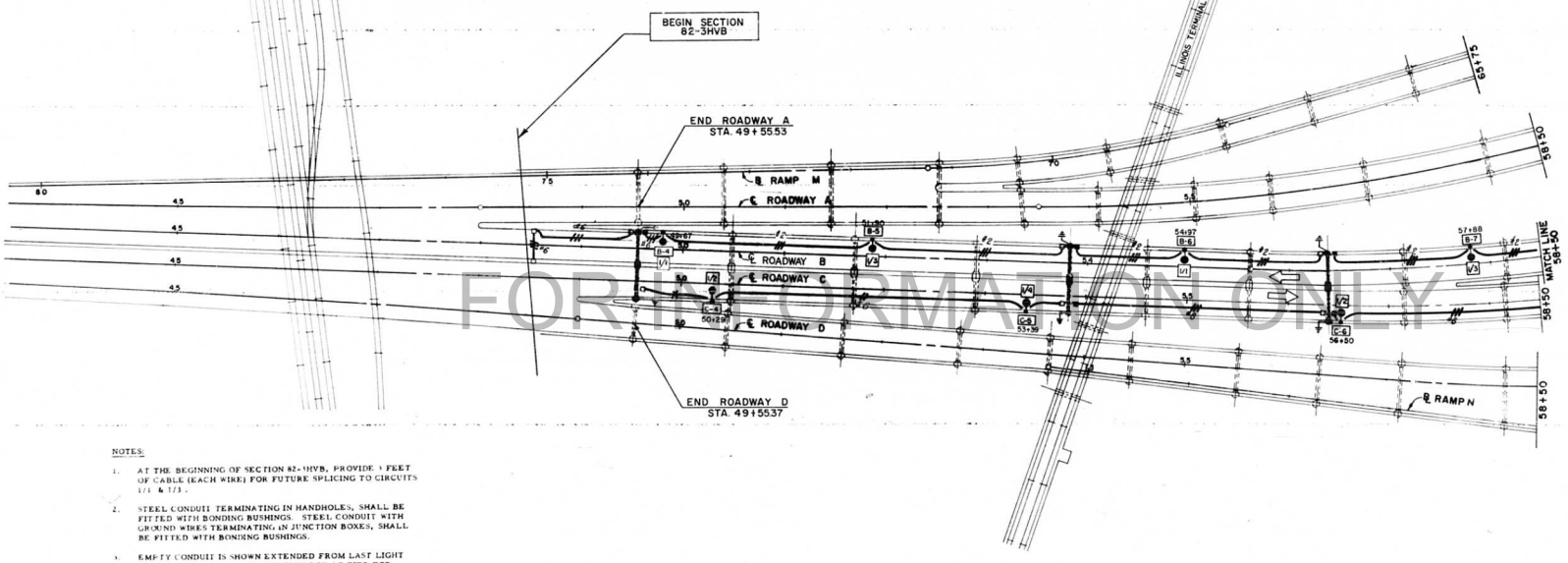
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILL.

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB	ST. CLAIR	249	18
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		

LEGEND

- 46+50 — STATION
- A-2 — ROADWAY-NO. OF STANDARD
- POLE
- MAST ARM
- LUMINAIRE ON BRIDGE
- CONTROL CENTER/CIRCUIT NUMBER
- LUMINAIRE ON ROADWAY
- LUMINAIRE ON RETAINING WALL
- EXISTING LUMINAIRE
- A — HANDHOLE & TYPE
- JUNCTION BOX
- 45' — CONDUIT STUBBED & CAPPED
- BARE TINNED STANDARD COPPER GROUND CABLE IN CONDUIT.
- 6 — NUMBER OF CABLES & SIZE
- —8— BURIED CONDUIT IN TRENCH, 2" EXCEPT AS OTHERWISE NOTED
- CONDUIT ON STRUCTURE, 2" EXCEPT AS OTHERWISE NOTED
- EMPTY CONDUIT ON STRUCTURE, 2" EXCEPT AS OTHERWISE NOTED
- UNIT DUCT IN TRENCH
- —XB— EMPTY CONDUIT IN TRENCH, 2" EXCEPT AS OTHERWISE NOTED





NOTES:

1. AT THE BEGINNING OF SECTION 82-3HVB, PROVIDE 3 FEET OF CABLE (EACH WIRE) FOR FUTURE SPLICING TO CIRCUITS 1/1 & 1/3.
2. STEEL CONDUIT TERMINATING IN HANDHOLES, SHALL BE FITTED WITH BONDING BUSHINGS. STEEL CONDUIT WITH GROUND WIRES TERMINATING IN JUNCTION BOXES, SHALL BE FITTED WITH BONDING BUSHINGS.
3. EMPTY CONDUIT IS SHOWN EXTENDED FROM LAST LIGHT STANDARD TO GROUNDED JUNCTION BOX AT PIER FOR GROUND CONTINUITY.
4. FOR GROUNDING DETAILS, SEE SHEET 25.
5. ALL EXPANSION FITTINGS SHALL BE BONDED EXPANSION COUPLINGS.
6. FOR LIGHT STANDARD DETAILS, SEE SHEET 21.
7. THE PARTIAL LIGHTING SYSTEM FOR ROADWAY A AND RAMPS M AND N, SHALL BE TESTED AFTER INSTALLATION.
8. ALL STANDARDS HAVE A TYPE II LIGHT PATTERN EXCEPT FOR STANDARDS B-1 THRU B-16 WHICH HAVE A TYPE I LIGHT PATTERN.

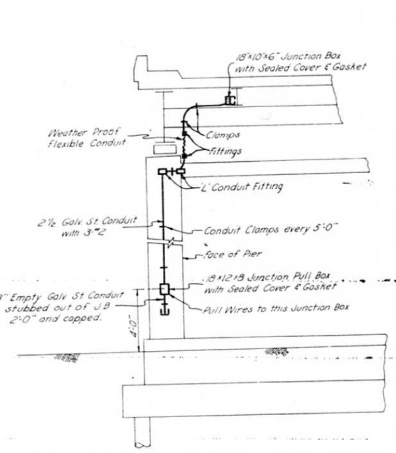
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS
F.A.I. ROUTE 70

ELECTRICAL PLANS

RDWY 'B' STA. 48+48 to STA. 58+50
SCALE: 1"=50'

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

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB	ST. CLAIR	289	19
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		



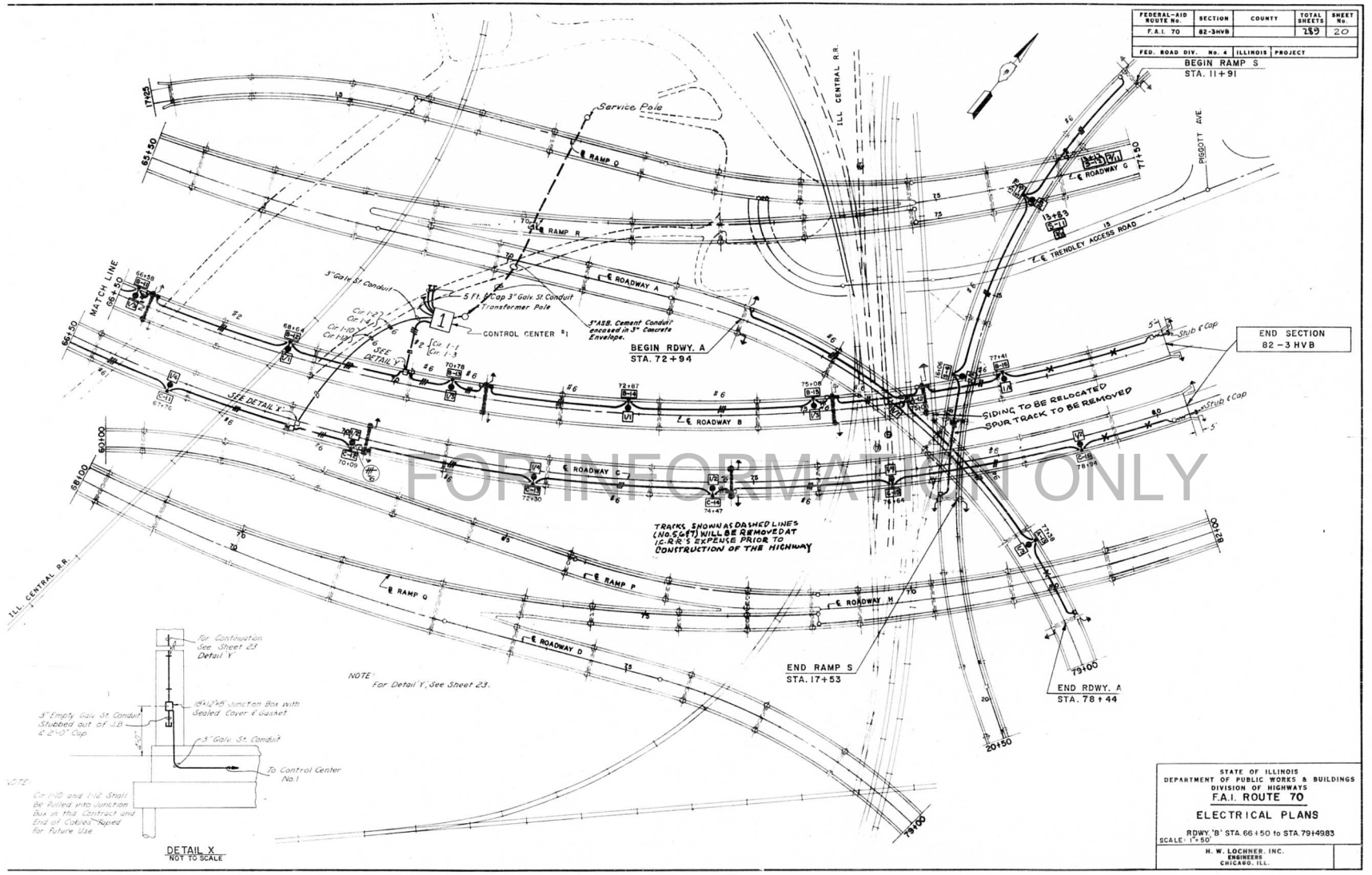
DETAIL Z
NOT TO SCALE

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS
F.A.I. ROUTE 70

ELECTRICAL PLANS

RDWY 'B' STA. 58+50 to STA. 66+50
SCALE 1"=50'

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



FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB		269	20
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		

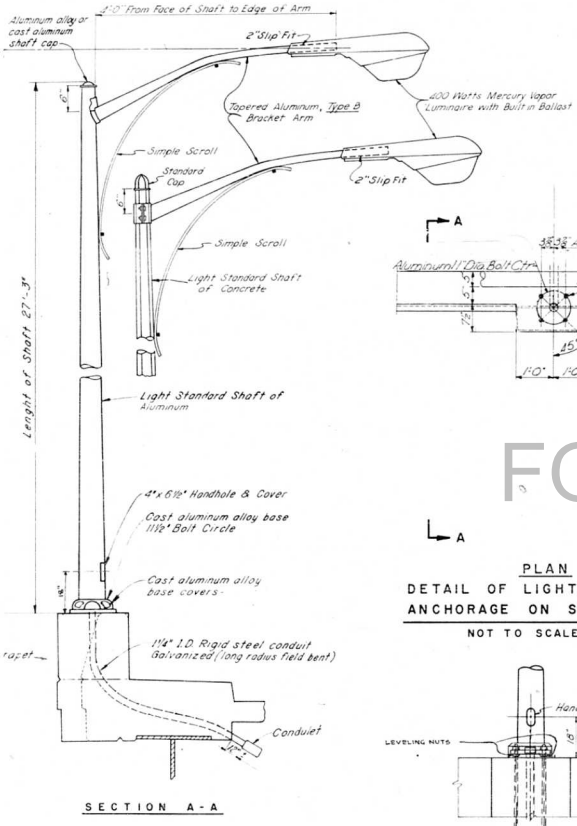
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS
F.A.I. ROUTE 70

ELECTRICAL PLANS

RDWY. 'B' STA. 66+50 to STA. 79+49.83
SCALE: 1"=50'

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

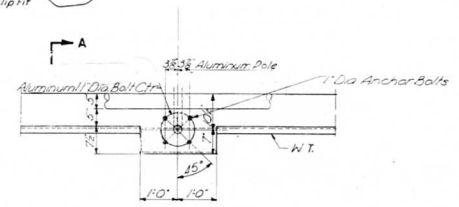
FEDERAL-AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 70	82-3HVB	ST. CLAIR	289	21
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		

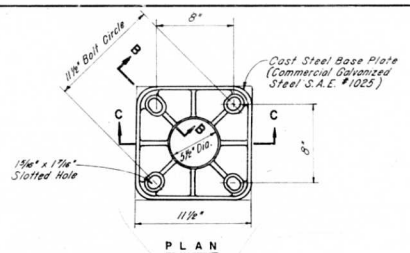


SECTION A-A

LIGHT STANDARD DETAIL ON BRIDGE PARAPET (ALUMINUM POLE)

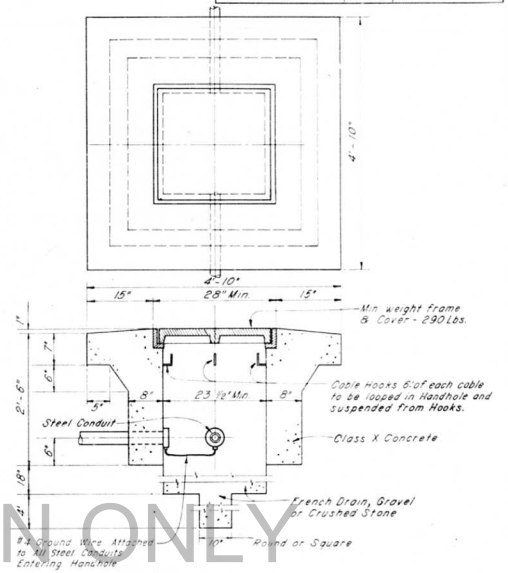
NOT TO SCALE





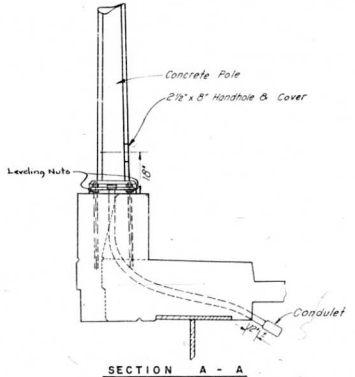
POLE BASE DETAILS FOR CONCRETE POLES

SCALE: 3/16" = 1'-0"



HANDHOLE TYPE A

SCALE: 1" = 1'-0"



SECTION A-A

LIGHT STANDARD DETAIL ON BRIDGE PARAPET (CONCRETE POLE)

NOT TO SCALE

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

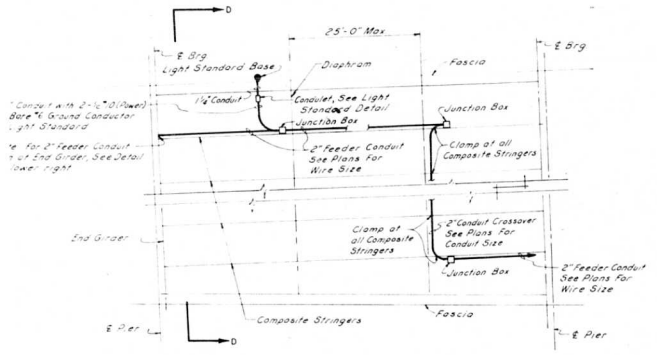
ELECTRICAL DETAILS

LIGHT STANDARDS ON BRIDGES & HANDOLE TYPE A

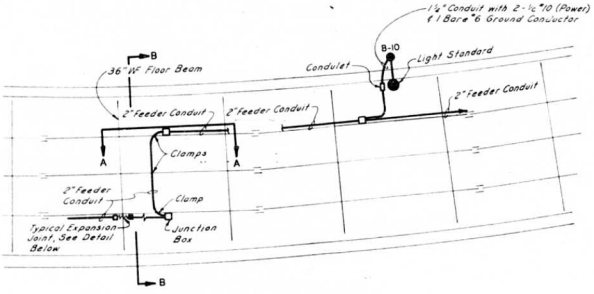
SCALE AS NOTED

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

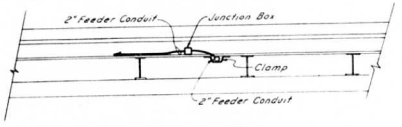
FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB	ST. CLAIR	289	22
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		



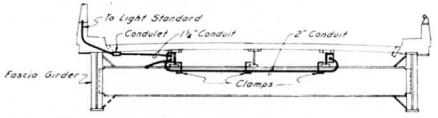
ELECTRICAL DETAILS OF CONDUIT AND JUNCTION BOXES FOR SIMPLE SPAN FRAMING
(VARYING ROADWAY WIDTH)



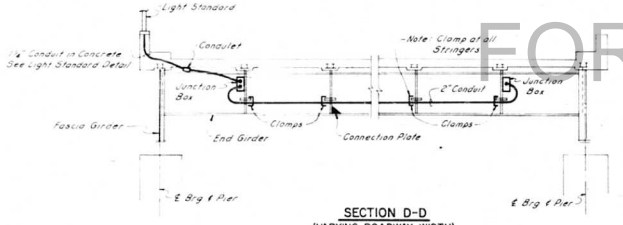
ELECTRICAL DETAILS OF CONDUIT AND JUNCTION BOXES
(CONSTANT WIDTH ROADWAY)



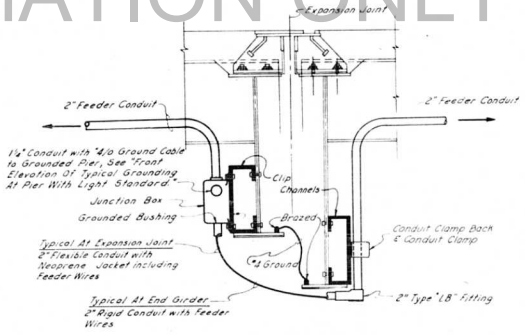
SECTION A-A



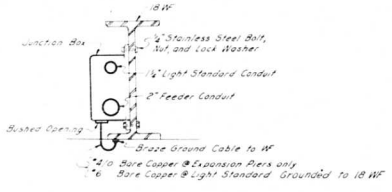
SECTION B-B



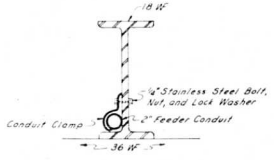
SECTION D-D
(VARYING ROADWAY WIDTH)



TYPICAL DETAIL FOR FEEDER CONDUIT RUN AT EXPANSION JOINT AND SAMPLE SPAN FRAMING END GIRDER



DETAIL OF JUNCTION BOX MOUNTING ON BRIDGE



DETAIL OF FEEDER CONDUIT SUPPORT

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

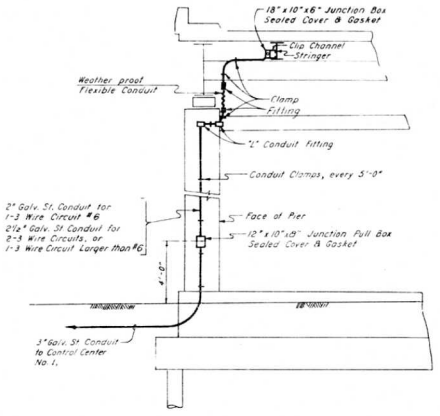
ELECTRICAL DETAILS

ATTACHING CONDUITS & JUNCTION BOXES TO BRIDGES

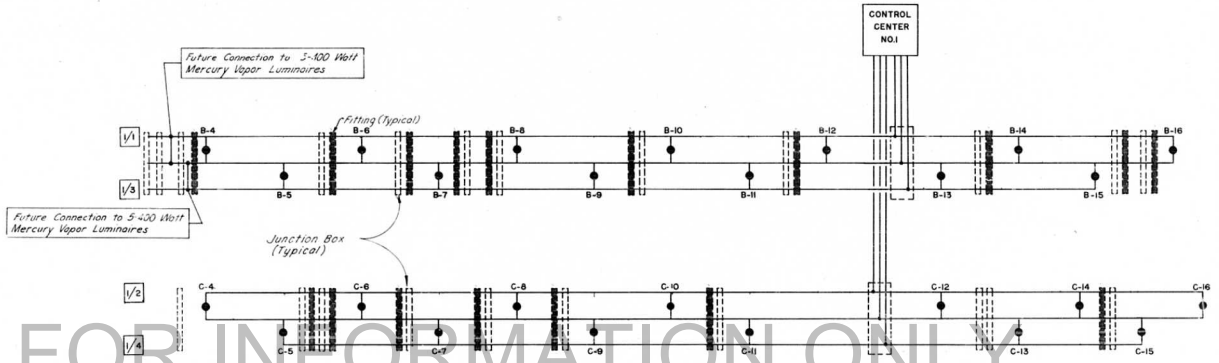
NOT TO SCALE

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

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB	ST. CLAIR	789	23
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		



DETAIL 'Y'
TYPICAL SERVICE FEED AT PIER
NOT TO SCALE



SCHEMATIC WIRING DIAGRAM
(240/480V, 1Φ, 3 Wire)

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

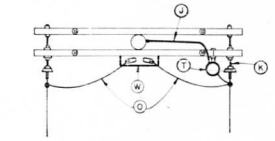
ELECTRICAL DETAILS

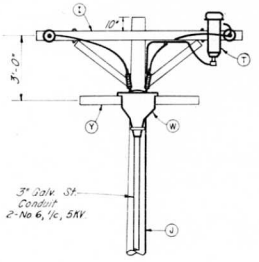
TYPICAL SERVICE FEED AT PIER & SCHEMATIC WIRING DIAGRAM FOR CONTROL CENTER NO.1

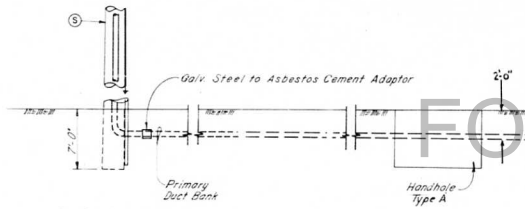
NOT TO SCALE

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

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB	ST. CLAIR	289	24
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		



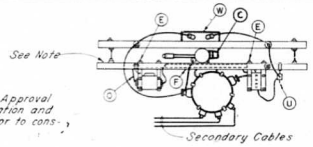




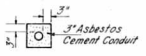
ELEVATION

PRIMARY SERVICE POLE

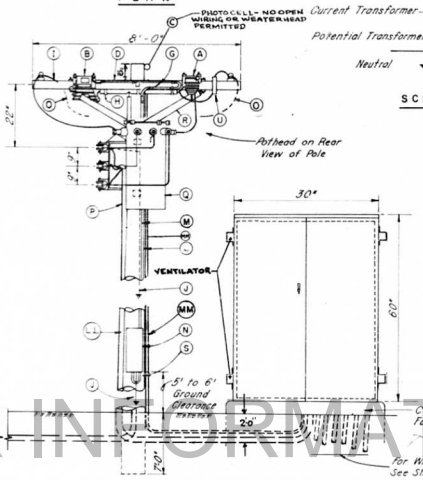
Note:
Union Electric Approval required for location and size of pole prior to construction.



PLAN



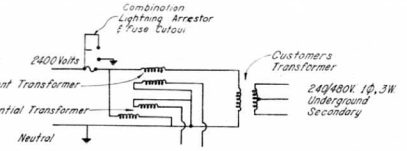
DETAIL OF PRIMARY DUCT BANK



ELEVATION CABINET ELEVATION

TRANSFORMER & PRIMARY METERING POLE

(2400/480 V/240) 1 ϕ



SCHEMATIC DIAGRAM

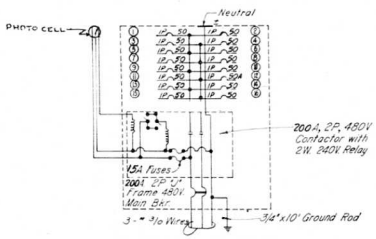
*Note:
Union Electric to provide potential and current transformers and watt hour meter enclosure and install and connect watt hour meter. Union Electric will terminate primary supply in customers dead end insulator and clamp (K). Contractor to provide and install all other equipment shown on plans. Contractor to ground instrument transformer case, single phase transformer case and meter enclosure.

Provide 4-2½% taps on single ϕ transformer. 2-2½% taps above and 2-2½% taps below normal.

ALL POLE LINE EQUIPMENT SHALL BE IN ACCORDANCE WITH NEMA STANDARDS AND SHALL BE APPROVED BY THE ENGINEER.

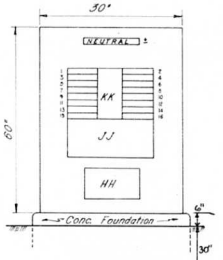
LEGEND

- (A) CURRENT TRANSFORMER
- (B) POTENTIAL TRANSFORMER
- (C) PHOTO CELL
- (D) SERVICE ENTRANCE - #6 - 2/C
- (E) MACHINE BOLT - 3/16" X 6"
- (F) 2" FIBRE CONDUIT
- (G) LEAD - CLEAT
- (H) CONDUIT STRAP
- (I) DOUBLE 8'-0" CROSS ARM
- (J) #4 GROUND WIRE AND 15'-0" GROUND ROD
- (K) INSULATOR AND DEAD END CLAMP
- (L) WOOD MOULDING - 3/4"
- (M) COPPER COVERED STAPLE
- (N) METER ENCLOSURE
- (O) 5000 VOLTS INSULATED CABLE #6,1/C
- (P) CUSTOMER CONDUIT WITH SERV. ENTRANCE CAP
- (Q) TRANSFORMER 75 KVA AT CC #1, OIL FILLED
- (R) "V" BRACE - 60"
- (S) 35' CLASS 2, BUTT TREATED POLE
- (T) 5KV LIGHTNING ARRESTER
- (U) 50A FUSED CUT OUT, 5000 V RATING
- (W) POTHEAD
- (Y) DOUBLE 4'-0" CROSS ARM
- (HH) 200A 480V., 2P "J" FRAME MAIN BREAKER
- (JJ) 200A 480V 2P MECHANICALLY HELD CONTACTOR WITH 2 WIRE 240V. RELAYS AND CONTROL FUSES
- (KK) 3W. 240/480V., 16 DISTRIBUTION PANEL WITH "EH" 1P. BKRS
- (LL) 3-#3/0 - 2" CONDUIT (SEE 'P')
- (MM) 3-#4/2 - 3/4" CONDUIT TO 'PHOTO CELL'

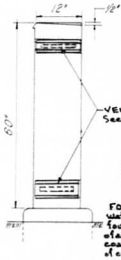


WIRING DIAGRAM CONTROL CENTER No. 1

1ϕ 240/480 V. 3 Wire Distribution (See Sheet No. 24)



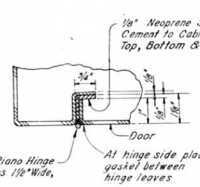
FRONT VIEW

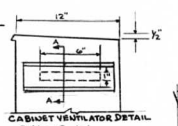


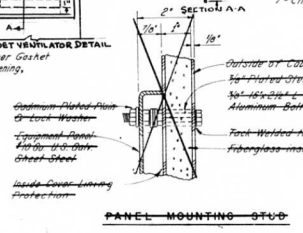
END VIEW

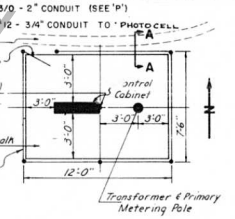
DIAGRAMATIC ASSEMBLY CONTROL CENTER No. 1

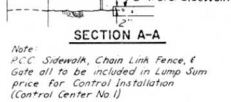
FOUNDATION NOTE :- waterproof top surface of foundation with one coat of asphalt primer and one coat of asphalt or one coat of creosote primer and one coat of coal-tar pitch.











SECTION A-A

Note
P.C.C. Sidewalk, Chain Link Fence, & Gate all to be included in Lump Sum price for Control Installation (Control Center No. 1)

CONTROL CENTER CABINET DETAILS

CENTERS No. 1, 2, 3, 4 & 5

TREATMENT AROUND CONTROL CENTER NO. 1

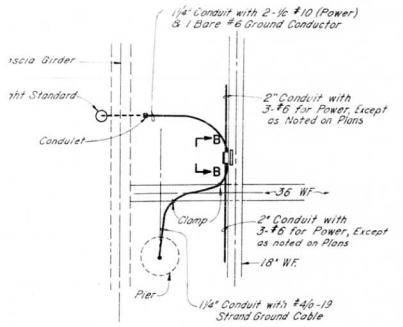
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ELECTRICAL DETAILS FOR POLES, CONTROL CABINET & CONTROL CENTER NO. 1

NOT TO SCALE

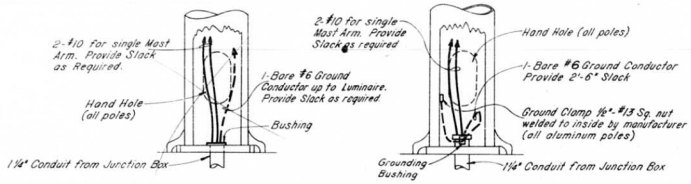
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILL.

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
FAI 70	82-3HVB	ST. CLAIR	289	25
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		



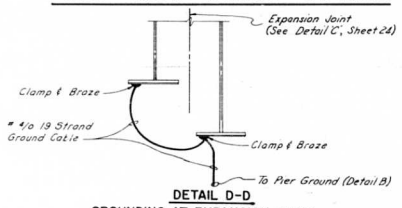
SECTION A - A

PLAN



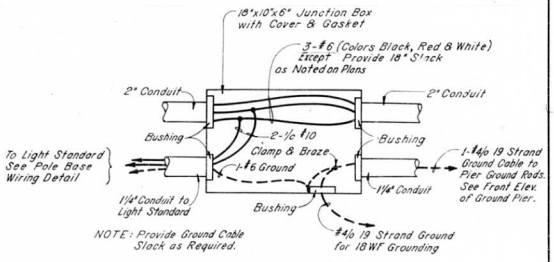
CONCRETE POLE ALUMINUM POLE

POLE BASE WIRING DETAILS



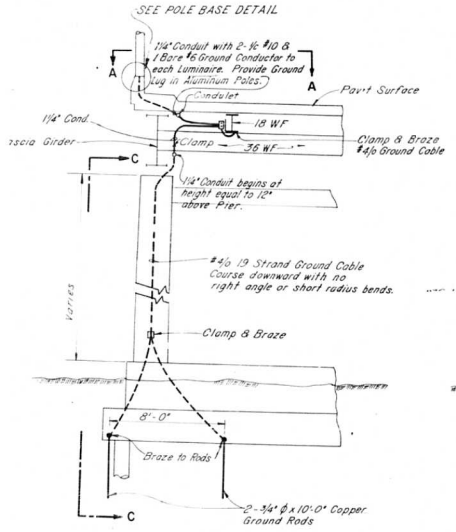
DETAIL D-D

GROUNDING AT EXPANSION JOINT WITHOUT CONDUIT & JUNCTION BOX



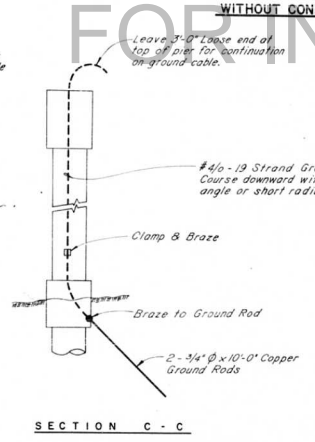
SECTION B - B

TYPICAL JUNCTION BOX DETAIL AT LIGHT STANDARD GROUNDED THRU EXPANSION PIER



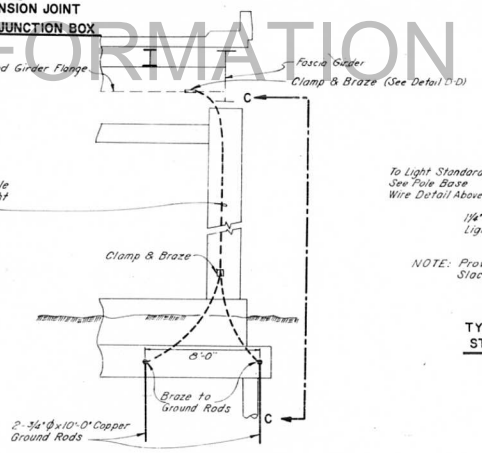
FRONT ELEVATION OF TYPICAL GROUNDING AT EXPANSION PIER WITH LIGHT STANDARD

DETAIL 'A'



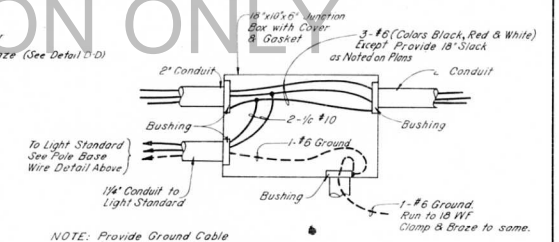
SECTION C - C

SIDE VIEW OF TYPICAL GROUNDING AT EXPANSION PIER



FRONT ELEVATION OF TYPICAL GROUNDING AT EXPANSION PIER WITHOUT LIGHT STANDARD

DETAIL 'B'



SECTION B - B

TYPICAL JUNCTION BOX DETAIL AT LIGHT STANDARD GROUNDED AT 18WF

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

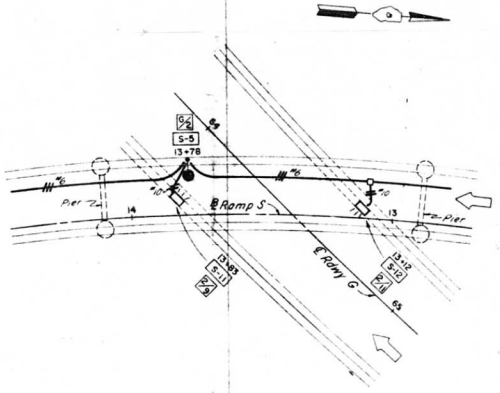
ELECTRICAL

TYPICAL GROUNDING DETAILS

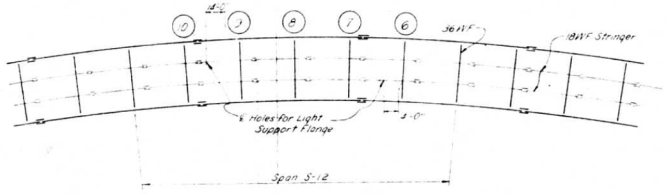
NOT TO SCALE

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

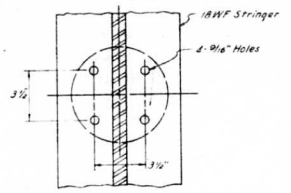
FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
FA I 70	82-3HVB	ST. CLAIR	295	25A
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		



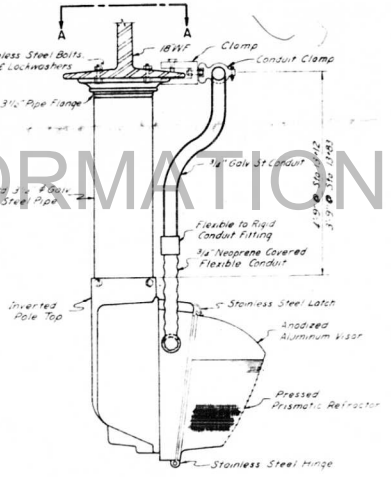
PLAN



FRAMING PLAN RAMP S



SECTION A-A



UNDERPASS LUMINAIRE
(MERCURY VAPOR W/BUILT IN REGULATOR BALLAST; 175 W)
ATTACHED TO BRIDGE

2 EACH LUMINAIRE, MERCURY VAPOR, UNDERPASS TYPE, 175 WATTS
2 EACH LAMP, MERCURY VAPOR, 175 WATTS, TYPE H39-22KB

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

LOCATION & DETAILS FOR
UNDERPASS LUMINAIRE

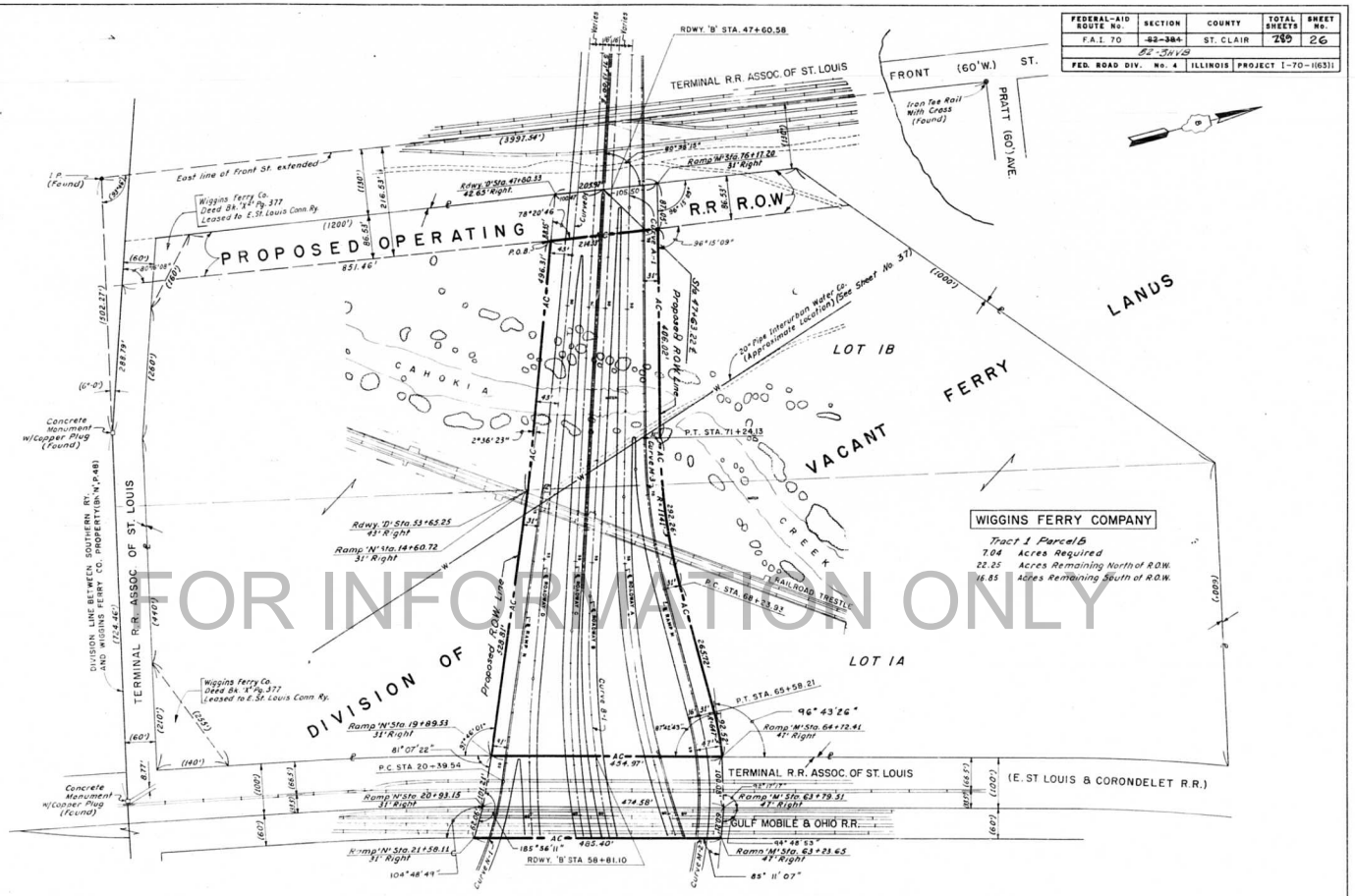
NOT TO SCALE

H. W. LOCHNER INC.
ENGINEERS
CHICAGO ILL.

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	~~82-3H~~ 82-3H2B	ST. CLAIR	29	26
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT I-70-1(63)1		

CURVE A-1		CURVE B-1		CURVE D-1	
P.I.	= 44+49.79	P.I.	= 76+37.10	P.I.	= 44+99.74
Δ	= 1°57'51"	Δ	= 97°39'16"	Δ	= 2°17'29"
D	= 0°16'51"	D	= 3°09'24"	D	= 0°17'12"
R	= 20,405.00'	R	= 1815.00'	R	= 19,988.00'
L	= 699.51'	L	= 3093.47'	L	= 799.37'
T	= 349.79'	T	= 2075.25'	T	= 399.74'
E	= 3.00'	E	= 941.97'	E	= 4.00'

CURVE M-2		CURVE M-3		CURVE N-1	
P.I	= 62+15.89	P.I.	= 69+74.86	P.I	= 25+09.37
Δ	= 91°18'24"	Δ	= 14°40'34"	Δ	= 67°44'14"
D	= 9°32'57"	D	= 4°53'19"	D	= 8°11'06"
R	= 600'	R	= 1172'	R	= 700'
L	= 956.16'	L	= 300.20'	L	= 827.57'
T	= 613.84'	T	= 150.93'	T	= 469.82'
E	= 258.37'	E	= 9.68'	E	= 143.05'



WIGGINS FERRY COMPANY

Tract 1 Parcel B

7.04 Acres Required
22.25 Acres Remaining North of R.O.W.
16.85 Acres Remaining South of R.O.W.

LEGEND

—AC— Access Control and Right of Way line
Property line
(100') Recorded dimension
100' Measured dimension
Right of Way line

I hereby certify that this is a correct Plat showing the Right of Way required for a Highway known as Federal Aid Interstate Route 70, located in the City of St. Louis, St. Clair County, Illinois, as now surveyed and staked out by H.W. Lochner, Inc., for the department of Public Works and Buildings of the State of Illinois

by _____ _____
Illinois Land Surveyor Date

Approved _____ _____
District Engineer Date

Completed 5-28-64

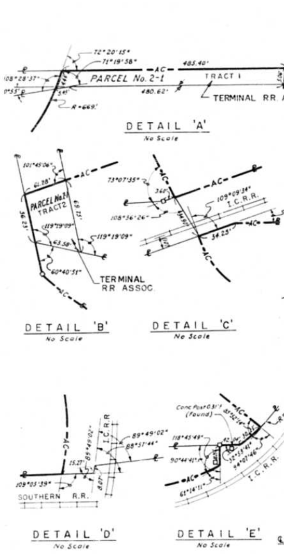
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

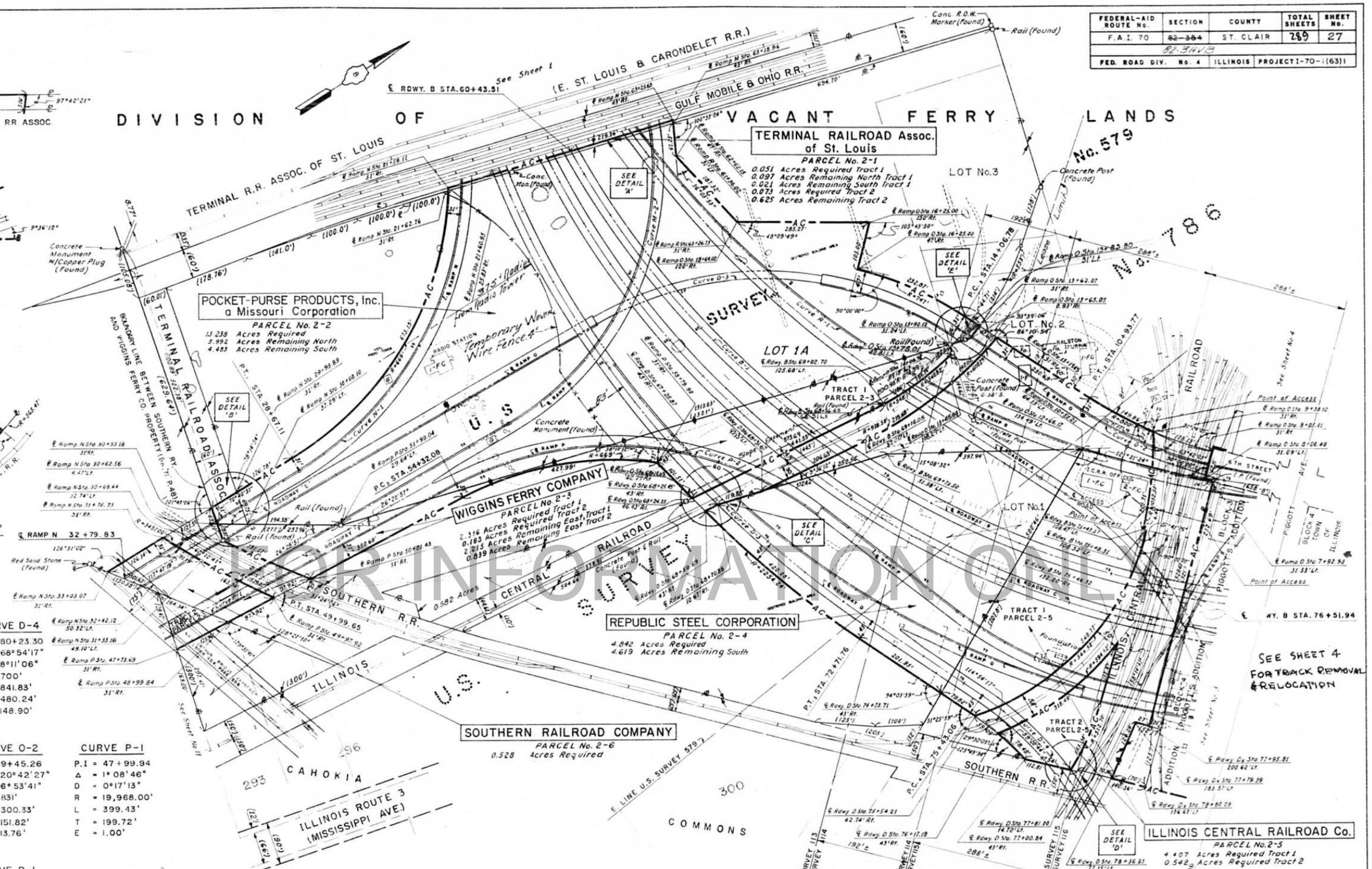
F.A.I ROUTE 70
RIGHT OF WAY PLAN
STA. 47+60.58 TO STA. 58+81.10

SCALE: 1" = 100'

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

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	~~82-384~~ 82-3HVB	ST. CLAIR	289	27
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT I-70-1(63)1		





CURVE B-1		CURVE D-3		CURVE D-4	
P.I.	= 76+37.10	P.I.	= 68+95.66	P.I.	= 80+23.30
Δ	= 97°39'16"	Δ	= 19°41'10"	Δ	= 68°54'17"
D	= 3°09'24"	D	= 2°35'28"	D	= 8°11'06"
R	= 1815'	R	= 2211.24'	R	= 700'
L	= 3093.47'	L	= 759.76'	L	= 841.83'
T	= 2075.25'	T	= 383.66'	T	= 480.24'
E	= 941.97'	E	= 33.04'	E	= 148.90'

CURVE M-2		CURVE N-1		CURVE O-2		CURVE P-1	
P.I.	= 62+15.89	P.I.	= 25+09.37	P.I.	= 9+45.26	P.I.	= 47+99.94
Δ	= 91°18'24"	Δ	= 67°44'14"	Δ	= 20°42'27"	Δ	= 1°08'46"
D	= 9°32'57"	D	= 8°11'06"	D	= 6°53'41"	D	= 0°17'13"
R	= 600'	R	= 700'	R	= 831'	R	= 19,968.00'
L	= 956.16'	L	= 827.57'	L	= 300.33'	L	= 399.43'
T	= 613.84'	T	= 469.82	T	= 151.82'	T	= 199.72'
E	= 258.37'	E	= 143.05'	E	= 13.76'	E	= 1.00'

CURVE O-3		CURVE P-2		CURVE R-1	
P.I.	= 18+39.48	P.I.	= 58+81.46	P.I.	= 63+57.31
Δ	= 63°26'37"	Δ	= 65°23'55"	Δ	= 30°06'59"
D	= 8°11'06"	D	= 8°11'06"	D	= 3°12'10"
R	= 700'	R	= 700'	R	= 1789'
L	= 775.11'	L	= 798.99'	L	= 940.35'
T	= 432.70'	T	= 449.38'	T	= 481.31'
E	= 122.94'	E	= 131.83'	E	= 63.61'

LEGEND

Symbol	Meaning
—AC—	Access Control and Right of Way line
⅊	Property line
(100')	Recorded dimension
100'	Measured dimension
C	Commercial
G	Garage
2-	2-Stories
F	Frame
Fo.	Foundation

I hereby certify that this is a correct Plat showing the Right of Way required for a Highway known as Federal Aid Interstate Route 70., located in the City of East St. Louis, St. Clair County, Illinois, as now surveyed and staked out by H.W. Lochner, Inc., for the department of Public Works and Buildings of the State of Illinois

by ______________________ ________
Illinois Land Surveyor   Date

Approved ______________________ ________
District Engineer   Date

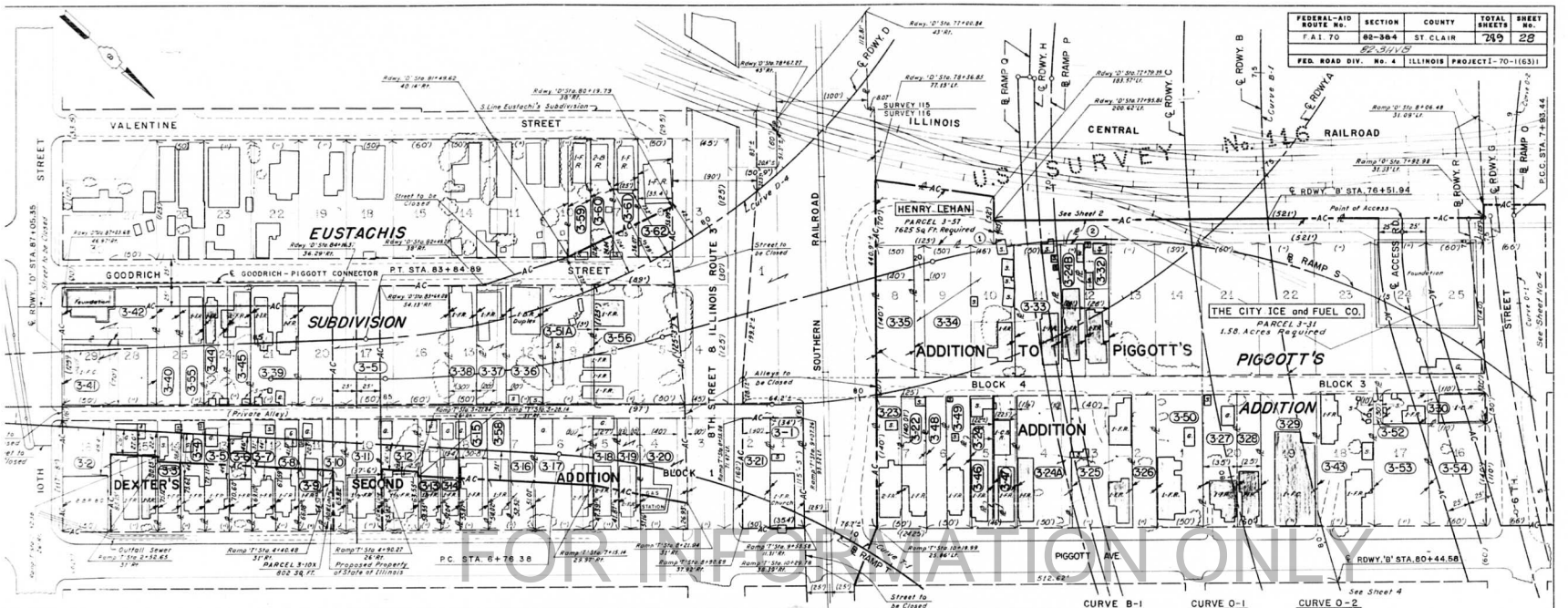
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS
F.A.I ROUTE 70
RIGHT OF WAY PLAN

SCALE: 1" = 100'

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

Rev. N.M.D 6/29/65
Inserted Temp. Fence.

FOR INFORMATION ONLY



FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3&4	ST. CLAIR	749	28
	82-3IVS			
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT I-70-1(63)I		

PIGGOTT'S ADDITION TO TOWN OF ILLINOIS (1)

LOT NO.	BLOCK NO.	OWNER	AREA REQ'D SQ. FT.	REMAINDER SQ. FT.
pt 20	3	WILLIAM E. KOPP & ANITA E. KOPP, his wife	4,900	0
pt 20	3	GEORGE NELSON & LEONA NELSON, his wife	3,500	0
19	3	MODERN ENGINEERING COMPANY, INC.	6,400	0
pt 18	3	CLAUDE FUNCHES & NETTIE FUNCHES, his wife	3,300	0
pt 17	3	EMMA L. VEACH	300	0
16	3	JIM MADISON & CHEALOR MADISON, his wife	8,400	0
pt 17	3	GROVER C. SIBLEY	6,600	0
pt 16	3	HARRY ELDRIDGE and GEORGIA L. ELDRIDGE, his wife	6,600	0

BOOK OF PLATS 'F', PAGE 117

ADDITION TO PIGGOTT'S ADDITION OF THE TOWN OF ILLINOIS (2)

LOT NO.	BLOCK NO.	OWNER	AREA REQ'D SQ. FT.	REMAINDER SQ. FT.
pt 7	4	JESSIE NUNN & STELLA NUNN, his wife	3,553	0
pt 6 & pt 7	4	ANGELO E. CASTELLANI & ANNA N. CASTELLANI, his wife	5,355	0
pt 7	4	PHILIP W. COHN Jr.	9,100	0
pt 6	4	KATHRYN SURATT RANDLE	3,500	0
pt 7	4	FRITZ SILBERMAN and FLORENCE E. SILBERMAN, his wife	3,447	0
pt 12	4	NATHALIE WOODS	3,640	0
11	4	FLOYD HAWKINS & NANCY HAWKINS, his sister	7,000	0
pt 10	4	PHILIP DAVIS	14,840	0
pt 9	4	ARTIE M. LEW and LOUIS E. MITAUER	5,600	0
pt 5	4	SAMMY CONNOR Sr., MATTIE CONNOR, his wife and SAMMY CONNOR Jr.	3,000	0
pt 4 & 3	4	SIMON HOUSTON and ANNIE HOUSTON, his wife	3,360	0
pt 6	4	EUGENE and ROBERT MAULE and EUGENIA SICKAGE	3,300	0
pt 5	4	MICHAEL ALCANICH and FRANK NALIVAYKO	3,300	0
1	4	HENRY A. HOOVER and ERISENE HOOVER, his wife	7,000	0

BOOK OF PLATS 'B', PAGE 21

DEXTER'S SECOND ADDITION TO THE CITY OF EAST ST LOUIS (3)

PARCEL NO.	LOT NO.	BLOCK NO.	OWNER	AREA REQ'D SQ. FT.	REMAINDER SQ. FT.
3-1	1	1	D. KENNETH RANK and MILDRED RANK, his wife	4,008	0
3-2	15 & 16	1	THEODORE N. MARKULY	3,438	8315
3-3	pt 14	1	LEON THOMPSON & SAVAH THOMPSON, his wife	1,075	1,859
3-4	pt 14	1	CORNELL DAUGHERTY & GRACE KING, his mother	1,110	1,822
3-5	pt 13	1	CHARLES KLINE	1,147	1,784
3-6	pt 13	1	ALEXANDER J. BOGDAN & MARGERET BOGDAN, his wife	1,183	1,746
3-7	pt 12	1	MILES HOWARD & SHANNAH T. HOWARD, his wife	1,218	1,709
3-8	pt 12	1	FRITZ SILBERMAN	1,254	1,671
3-9	pt 11	1	AMESA C. COLEMAN & MARGARET COLEMAN, his wife	1,291	1,633
3-10	pt 11	1	LOUIS STREETER & CORNELIA STREETER, his wife	2,120	0
3-11	pt 10	1	HAZEL HOLLIS	4,373	0
3-12	pt 10 & pt 9	1	HENRY LOUIS DOWELL & SARAH DOWELL, his wife	1,948	2,426
3-13	pt 9	1	JAMES A. TOLSON & ADA TOLSON, his wife	1,470	1,445
3-14	pt 8	1	EARNEST OUTLAW & VERTIE MAE OUTLAW, his wife	1,162	1,091
3-15	pt 8	1	ANNIE L. BALL & LEO BALL, her husband	1,885	1,685
3-16	pt 7	1	PAUL MEYER	1,614	1,294
3-17	6 pt 5	1	BERTHA GREENBERG	4,017	2,952
3-18	pt 5	1	ELLEN V. SHELTON	1,929	1,205
3-19	pt 5 & pt 4	1	MARY E. GEROLD	1,759	909
3-20	pt 4 & pt 3	1	JOSEPH A. TROY, Jr.	4,190	1,602
3-21	pt 2	1	CITY PRODUCTS CORPORATION, a CORPORATION of OHIO	3,468	0
3-58	pt 7	1	ISABELLA BRIDGES and SECULA WHITE	1,678	1,132
3-10X	pt 11	1	LOUIS STREETER and CORNELIA STREETER, his wife	802	0

(3) BOOK OF PLATS 'F' PAGE 1

RE-SURVEY OF EUSTACHI'S OF LOT 13 IN SURVEY NO. 116 (4)

PARCEL NO.	LOT NO.	BLOCK NO.	OWNER	AREA REQ'D SQ. FT.	REMAINDER SQ. FT.
3-36	pt 12		FRANK BANKS & MABEL BANKS, his wife	3,000	0
3-37	pt 12 & pt 13		MAGGIE TATE	3,750	0
3-38	pt 13		ARTHUR P. MEYER & ELNORA B. MEYER, his wife	3,750	0
3-39	21		ERNEST J. HOFFINGER & RAYMOND HOFFINGER	6,250	0
3-40	pt 25		ALEX DOMYAN & SHIRLEY M. DOMYAN, his wife	3,125	0
3-41	pt 24 & pt 25		ROSE DOMYAN	7,000	0
3-42	pt 24 & pt 23		ARTHUR C. DOUGLAS & BESSIE DOUGLAS, his wife	5,500	0
3-44	pt 24		EDWARD P. HILLMAN and DOROTHY LEE HILLMAN, his wife	3,125	0
3-45	pt 24		CHARLES DOMYAN Jr. and ALEX DOMYAN	3,125	0
3-47	pt 19		ESTATE of GEORGE SCHAUB	20,000	0
3-51A	pt 8, 9		ESTATE of GEORGE SCHAUB	6,625	0
1-56	pt 9 & pt 10		JEFF SMITH and BEAULAH SMITH, his wife	11,625	0
3-59	pt 10		D. KENNETH RANK and MILDRED RANK, his wife	150	2,975
3-60	pt 7		LOUIS N. RANK	451	2,674
3-61	pt 7		WILLIAM P.A. RANK	751	2,374
3-62	pt 6		LEO L. RANK and ANTOINETTE RANK, his wife	1,578	2,847
3-55	pt 25		ARNOLD COHN	3,125	0

(4) BOOK OF PLATS 'D' PAGE 137

CURVE B-1
P.I. = 76+37.10
Δ = 97°39'16"
D = 3°09'24"
R = 1815.'
L = 3093.47'
T = 2075.25'
E = 941.97'

CURVE O-1
P.I. = 4+02.17
Δ = 23°05'03"
D = 2°54'34"
R = 1969.33'
L = 793.44'
T = 402.17'
E = 40.65'

CURVE O-2
P.I. = 9+45.26
Δ = 20°42'27"
D = 6°53'41"
R = 831'
L = 300.33'
T = 151.82'
E = 13.76'

CURVE D-4
P.I. = 80+23.30
Δ = 68°54'17"
D = 8°11'06"
R = 700'
L = 841.83'
T = 480.24'
E = 148.90'

CURVE T-1
P.I. = 10+04.42
Δ = 50°13'06"
D = 8°11'06"
R = 700'
L = 613.53'
T = 328.04'
E = 73.05'

LEGEND
- Access Control and Right of Way Line
- Property line
- Same Ownership
- Existing R.O.W. line
- (100') Recorded dimension
- 100' Measured dimension
- (1) Lot Number
- R Residential
- C Commercial
- G Garage
- S Shed
- 1½ 1½-Stories
- F Frame
- B Brick
- Proposed R.O.W. Line
- Access Control Line

Rev. 8-5-64
Completed 5-28-64
Rev. 3-16-64

I hereby certify that this is a correct Plat showing the Right of Way required for a highway known as Federal Aid Interstate Route 70, located in the City of East St Louis, St Clair County, Illinois, as now surveyed and staked out by H.W. Lochner, Inc. for the department of Public Works and Buildings of the State of Illinois

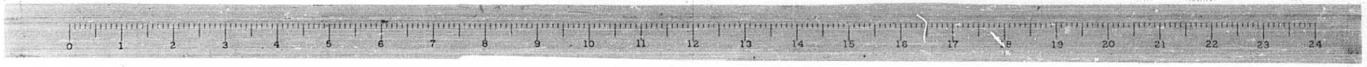
by _____ Illinois Land Surveyor _____ Date

Approved _____ District Engineer _____ Date

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS
F.A.I. ROUTE 70
RIGHT OF WAY PLAN
10TH STREET TO 6TH STREET
SCALE: 1" = 50'

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

FOR INFORMATION ONLY



FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	~~82-3B4~~ 82-3-11B	ST. CLAIR	289	29
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT I-70-1(63)11		

TOWN OF ILLINOIS (1)

LOT NO.	BLOCK NO.	OWNER	AREA REQ'D SQ. FT.	REMAINDER SQ. FT.
pt 10	4	PLEAS JONES and CLARA JONES, his wife	3,150	0
pt 10	4	JOSEPH L. GEROLD and MARGARET L. GEROLD, his wife	5,250	0
pt 8	4	JIMMIE WARE and LUEELLA WARE, his wife	2,800	0
pt 8	4	ETHEL STACK and CATHERINE IRENE O'LEARY	280	0
pt 9	4	REVETTER COLEMAN	5,320	0
pt 7	4	PEARL REASON MCALLISTER and PETE REASON, her son	4,900	0
pt 7	4	HARRY THOMAS and MAMIE THOMAS, his wife	3,500	0
6	4	FRITZ SILBERMAN	8,400	0
pt 1	4	VOKE PREATHER and CORA ANN PREATHER, his wife	2,100	0
pt 1	4	GASTON DIXON	2,100	0
pt 1	4	RICHARD PAYNE and PECOLA PAYNE, his wife	4,200	0
pt 2	4	CONSTANT HILL and REBECCA L. HILL	2,100	0
pt 2	4	DAVID CONRAD and TRESSIE LEE CONRAD, his wife	4,200	0
pt 3	4	MAURICE COPILEVITZ and ROSE COPILEVITZ, his wife	4,200	0
pt 3	4	HERBERT E. HOTTES	4,200	0
pt 4, pt 5	4	JOSEPHINE HILL and EDGAR HILL, her husband, and ROBERT H. REED and DARLINE A. REED, his wife	4,800	0
pt 4, pt 5	4	JOHN LAMBERT	3,600	0
pt 1	3	ARNOLD COHN	2,400	0
pt 1	3	FRANK IRONS and DECILE IRONS, his wife	6,000	0
pt 2	3	FLORENCE T. MEREDITH	4,200	0
pt 2, pt 3	3	ISIAH ANDERSON and LOU ANNA ANDERSON, his wife	5,040	0
pt 4	3	JOHN W. ATCHISON	4,480	0
pt 3	3	HERBERT E. HOTTES	4,200	0
pt 3	3	ALBERT JONES and MATTIE JONES, his wife	3,500	0
pt 3	3	EUGENIA SICKAGE	700	0
9	4	INTERSTATE BOND Co.	8,400	0
pt 2	4	ELIZABETH CAMPBELL, et. al.	2,100	0
pt 4, pt 5	4	BEN ROWRY and VERDA B. ROWRY, his wife	3,800	0
pt 4, pt 5	4	SAM GOLDSTEIN and MINNIE GOLDSTEIN, his wife	4,800	0
pt 3	3	EDWARD HOLLMAN and DOROTHY LEE HOLLMAN, his wife	4,360	0
pt 4	3	ROSHELLE MARIE NELSON	3,920	0
5	3	SYLVESTER COLEMAN and LILLIAN COLEMAN, his wife	3,291	5,109
pt 8	3	FRANK CASON and MARY LUE CASON, his wife	4,200	0

BOOK OF PLATS 'C', PAGES 314 & 315

EDGAR AME'S ADDITION TO EAST ST. LOUIS (2)

LOT NO.	BLOCK NO.	OWNER	AREA REQ'D SQ. FT.	REMAINDER SQ. FT.
pt 13	1	LAFAYETTE WEBSTER and MARY E. WEBSTER, his wife	3,500	0
pt 13	1	SAM GOLDSTEIN	3,500	0
pt 14	1	EDWARD KIMME and KATIE KIMME, his wife	3,500	0
pt 14	1	ROBERT JONES and ANNA NESBITT	3,500	0
pt 15	1	FRITZ SILBERMAN	3,500	0
pt 15	1	ROBERT HUDSON Jr. and MAGGIE HUDSON, his wife	3,500	0
pt 16	1	WILLI MAE BROWN	3,500	0
pt 16	1	ALBERTA W. ELLIOTT and QUINTON ELLIOTT, her husband	3,500	0
pt 2	1	PHILIP H. COHN Jr.	3,500	0
1	1	STANLEY W. GREGOROWICZ and VIOLA MAE GREGOROWICZ, his wife	7,000	0
pt 10	1	BRUCE H. LEW and LOUIS E. MITAUER	5,600	0
pt 10	1	JEREMIAH LEHAN and MARY LEHAN, his wife	1,669	0
11	1	ALBERT A. HEQUEMBOURG and CATHERINE R. HEQUEMBOURG, his wife	7,000	0
pt 12	1	SAMUEL STEWART and MINNIE STEWART, his wife	3,500	0
pt 12	1	E.J. SIERON	3,500	0
pt 6	1	GILNAZ BAKAIAN and ARMAN BAKAIAN, her husband	347	3,153
pt 5	1	DONNIE ELIZABETH PLAYER	647	1,775
pt 5	1	EMMETT FARRELL and ETHEL FARRELL, his wife	1,026	1,494
pt 6, pt 5	1	ROSETTA THOMAS	1,461	989
pt 4	1	WILLIAM R. WEIDMAN	2,520	0
pt 4	1	JOSEPHINE DUPREE	2,520	0
pt 3, pt 4	1	BIRL NICHOLSON and VINNIE LEE NICHOLSON, his wife	2,478	0
pt 3	1	CHARLIE ANN ROGERS and ELSIE DROGERS	2,590	0
pt 2, pt 3	1	HAROLD G. BAKER	7,000	0

BOOK OF PLATS 'E' PAGE 40

FRANK B. BOWMAN SUBDIVISION OF LOTS 9 & 10 IN BLOCK 3 OF THE PLATTED TOWN OF ILLINOIS (4)

PARCEL NO.	LOT NO.	BLOCK NO.	OWNER	AREA REQ'D SQ. FT.	REMAINDER SQ. FT.
4-34	1,2	–	L.C. WALL	6,000	0
4-35	4,5	–	OLLIE WARD and ELLA WARD, his wife	7,800	0
4-45	3	–	ELLA H. GEBIKE	3,000	0

(4) BOOK OF PLATS 'B', PAGE 104

FRANK B. BOWMAN SUBDIVISION OF LOTS 6 & 7 IN BLOCK 3 OF THE PLATTED TOWN OF ILLINOIS (5)

PARCEL NO.	LOT NO.	BLOCK NO.	OWNER	AREA REQ'D SQ. FT.	REMAINDER SQ. FT.
4-62	4,5		FRANK CASON and MARY LUE CASON, his wife	1,771	6,029
4-63	3		RUBILEE WEIHL	1,117	1883
4-64	1,2		IDA MAE HIGGINS	2,959	3,041

(5) BOOK OF PLATS 'B', PAGE 104

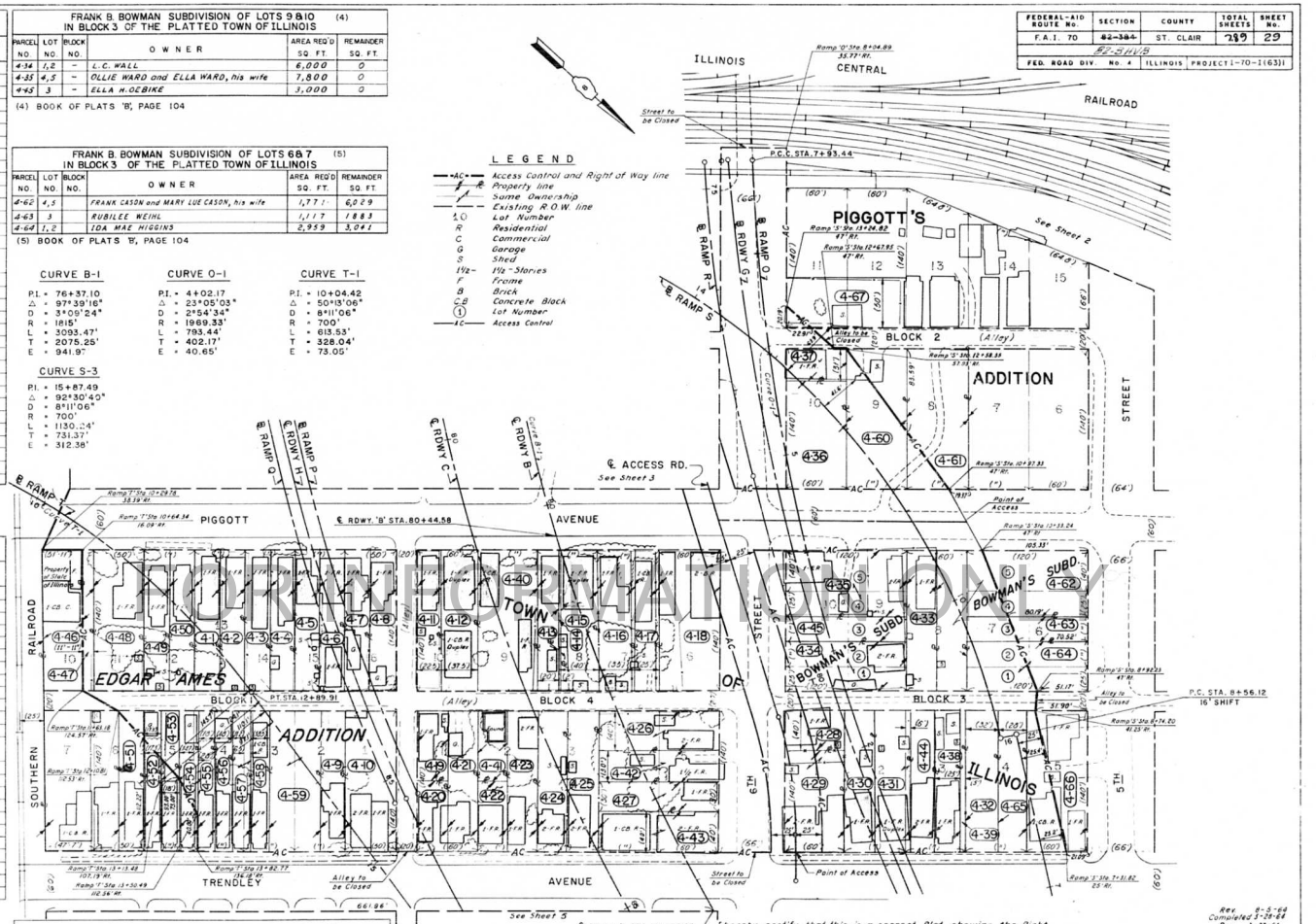
CURVE B-1
P.I. = 76+37.10
Δ = 97°39'16"
D = 3°09'24"
R = 1815'
L = 3093.47'
T = 2075.25'
E = 941.9'

CURVE O-1
P.I. = 4+02.17
Δ = 23°05'03"
D = 2°54'34"
R = 1969.33'
L = 793.44'
T = 402.17'
E = 40.65'

CURVE T-1
P.I. = 10+04.42
Δ = 50°13'06"
D = 8°11'06"
R = 700'
L = 613.53'
T = 328.04'
E = 73.05'

CURVE S-3
P.I. = 15+87.49
Δ = 92°30'40"
D = 8°11'06"
R = 700'
L = 1130.24'
T = 731.37'
E = 312.38'

LEGEND
- AC — Access Control and Right of Way line
- Property line
- Same Ownership
- Existing R.O.W. line
- 10 Lot Number
- R Residential
- C Commercial
- G Garage
- S Shed
- 1½ 1½ - Stories
- F Frame
- B Brick
- C.B Concrete Block
- (1) Lot Number
- AC Access Control



PIGGOTT'S ADDITION TO THE TOWN OF ILLINOIS (3)

PARCEL NO.	LOT NO.	BLOCK NO.	OWNER	AREA REQ'D SQ. FT.	REMAINDER SQ. FT.
4-36	pt 10	2	THOMAS LEWIS and JANICE LEWIS, his wife	6,540	0
4-37	pt 10	2	GEORGE WILEY and SARAH WILEY, his wife	1,860	0
4-60	9	2	ESTATE of P.J. PECAU	3,204	2,496
4-61	8	2	FRANK IRONS and DECILE IRONS, his wife	1,150	7,250
4-67	pt 6, pt 10	2	IRENE REEVES	231	5,769

(3) BOOK OF PLATS 'T' PAGE 117

I hereby certify that this is a correct Plat showing the Right of Way required for a Highway known as Federal Aid Interstate Route 70, located in the City of East St. Louis, St. Clair County, Illinois, as now surveyed and staked out by H.W. Lochner, Inc. for the department of Public Works and Buildings of the State of Illinois

by _____ Illinois Land Surveyor _____ Date

Approved _____ District Engineer _____ Date

Rev. 5-5-64
Completed 3-29-64
Rev. 5-27-64
Rev. 5-18-64
Rev. 6-6-64

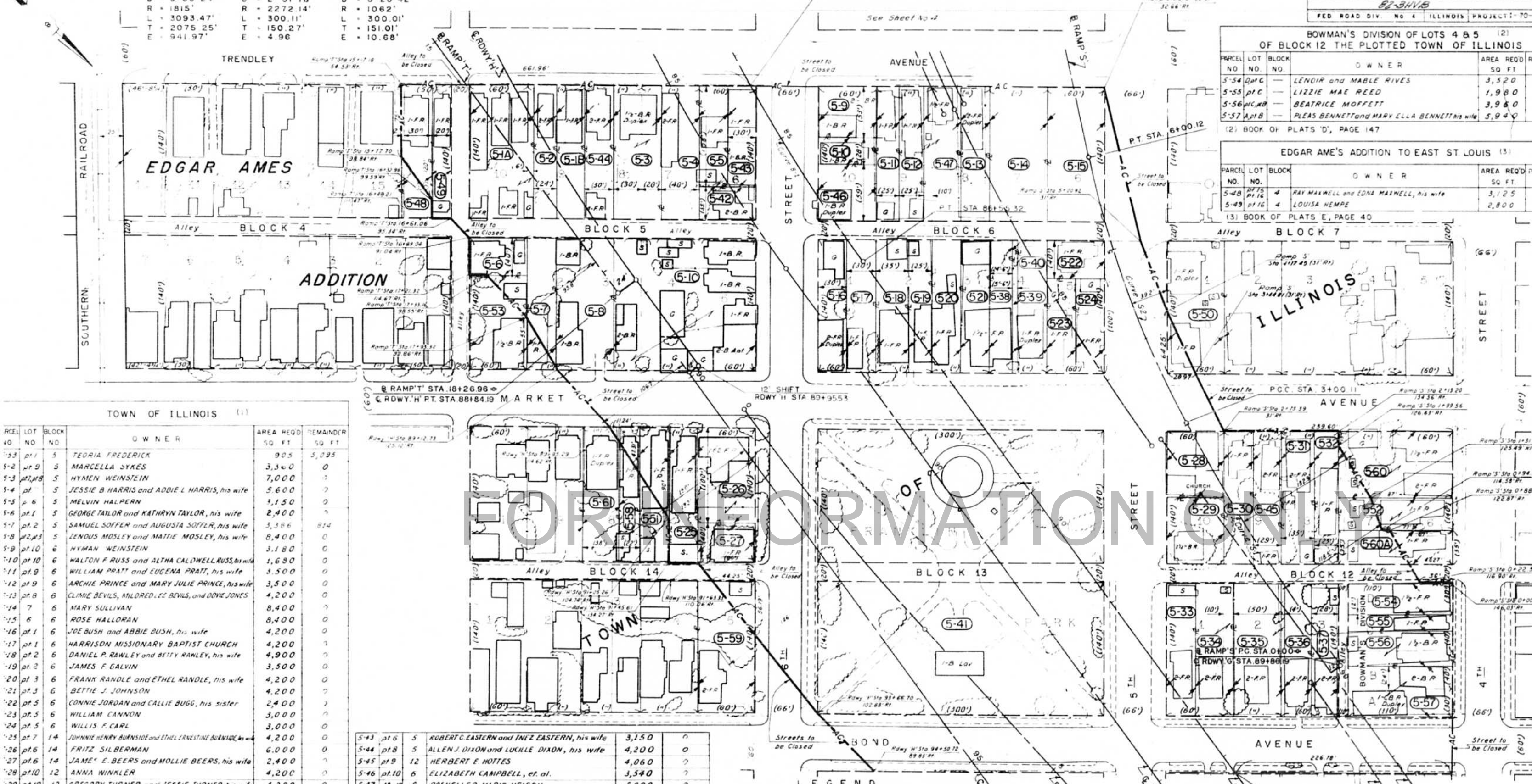
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS
F.A.I. ROUTE 70
RIGHT OF WAY PLAN
I.C.R.R. TO TRENDLEY AVENUE
SCALE: 1" = 50'

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

FOR INFORMATION ONLY

CURVE B-1	CURVE S-1	CURVE S-2
P.I. = 76+37.10	P.I. = 1+50.27	P.I. = 4+51.12
Δ = 97°39'16"	Δ = 7°34'04"	Δ = 16°11'09"
D = 3°09'24"	D = 2°31'18"	D = 5°23'42"
R = 1815'	R = 2272.14'	R = 1062'
L = 3093.47'	L = 300.11'	L = 300.01'
T = 2075.25'	T = 150.27'	T = 151.01'
E = 941.97'	E = 4.96	E = 10.68'

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	~~82-384~~ 82-3HVB	ST. CLAIR	289	30
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT I-70-1(63)1		



BOWMAN'S DIVISION OF LOTS 4 & 5 (2) OF BLOCK 12 THE PLOTTED TOWN OF ILLINOIS

PARCEL NO	LOT NO.	BLOCK NO.	OWNER	AREA REQ'D SQ. FT.	REMAINDER SQ. FT.
5-54	D,pt.C	—	LENOIR and MABLE RIVES	3,520	0
5-55	pt.C	—	LIZZIE MAE REED	1,980	0
5-56	pt.C, pt.B	—	BEATRICE MOFFETT	3,960	0
5-57	A,pt.B	—	PLEAS BENNETT and MARY ELLA BENNETT his wife	5,940	0

(2) BOOK OF PLATS 'D', PAGE 147

EDGAR AME'S ADDITION TO EAST ST. LOUIS (3)

PARCEL NO.	LOT NO.	BLOCK	OWNER	AREA REQ'D SQ. FT.	REMAINDER SQ. FT.
5-48	pt.15 pt.16	4	RAY MAXWELL and EDNA MAXWELL, his wife	3,125	1,355
5-49	pt.16	4	LOUISA HEMPE	2,800	0

(3) BOOK OF PLATS E, PAGE 40

TOWN OF ILLINOIS (1)

PARCEL NO	LOT NO	BLOCK NO	OWNER	AREA REQ'D SQ. FT.	REMAINDER SQ. FT.
5-53	pt.1	5	TEORIA FREDERICK	905	5,095
5-2	pt.9	5	MARCELLA SYKES	3,360	0
5-3	pt.7, pt.8	5	HYMEN WEINSTEIN	7,000	0
5-4	pt.	5	JESSIE B HARRIS and ADDIE L HARRIS, his wife	5,600	0
5-5	pt.6	5	MELVIN HALPERN	3,150	0
5-6	pt.1	5	GEORGE TAYLOR and KATHRYN TAYLOR, his wife	2,400	0
5-7	pt.2	5	SAMUEL SOFFER and AUGUSTA SOFFER, his wife	3,386	814
5-8	pt.2, pt.3	5	ZENOUS MOSLEY and MATTIE MOSLEY, his wife	8,400	0
5-9	pt.10	6	HYMAN WEINSTEIN	3,180	0
5-10	pt.10	6	WALTON F RUSS and ALTHA CALDWELL RUSS, his wife	1,680	0
5-11	pt.9	6	WILLIAM PRATT and EUGENA PRATT, his wife	3,500	0
5-12	pt.9	6	ARCHIE PRINCE and MARY JULIE PRINCE, his wife	3,500	0
5-13	pt.8	6	CLIMIE BEVILS, MILDRED LEE BEVILS, and DOVIE JONES	4,200	0
5-14	7	6	MARY SULLIVAN	8,400	0
5-15	6	6	ROSE HALLORAN	8,400	0
5-16	pt.1	6	JOE BUSH and ABBIE BUSH, his wife	4,200	0
5-17	pt.1	6	HARRISON MISSIONARY BAPTIST CHURCH	4,200	0
5-18	pt.2	6	DANIEL P. RAWLEY and BETTY RAWLEY, his wife	4,900	0
5-19	pt.2	6	JAMES F GALVIN	3,500	0
5-20	pt.3	6	FRANK RANDLE and ETHEL RANDLE, his wife	4,200	0
5-21	pt.3	6	BETTIE J. JOHNSON	4,200	0
5-22	pt.5	6	CONNIE JORDAN and CALLIE BUGG, his sister	2,400	0
5-23	pt.5	6	WILLIAM CANNON	3,000	0
5-24	pt.5	6	WILLIS F. CARL	3,000	0
5-25	pt.7	14	JOHNNIE HENRY BURNSIDE and ETHEL ERNESTINE BURNSIDE, his wife	4,200	0
5-26	pt.6	14	FRITZ SILBERMAN	6,000	0
5-27	pt.6	14	JAMES E. BEERS and MOLLIE BEERS, his wife	2,400	0
5-28	pt.10	12	ANNA WINKLER	4,200	0
5-29	pt.10	12	GREGORY TURNER and JESSIE TURNER, his wife	4,200	0
5-30	pt.9	12	LUCY BOUNDS	4,340	0
5-31	pt.8	12	W.A. KOPP and ANITA E. KOPP, his wife	4,900	0
5-32	pt.8	12	MOSES HUGHES and GEORGIA L. HUGHES, his wife	3,500	0
5-33	pt.1	12	SIDNEY THORNTON and BELLA THORNTON, his wife	4,200	0
5-34	pt.1, pt.2	12	WILLIAM Z. TROUT and NORA TROUT, his wife	5,600	0
5-35	pt.2, pt.3	12	FOSTER R. CALVERT and DORIS M. CALVERT, his wife	7,560	0
5-36	pt.3	12	EDWIN J. SIERON	3,920	0
5-37	pt.3	12	CHARITY PANNELL	3,920	0
5-38	pt.4	6	GORDON CURD	3,430	0
5-39	pt.4	6	HAROLD G. BAKER	770	0
5-40	pt.4	6	JOSEPHINE MORAWSKI and ANDREW MORAWSKI, her husband	4,200	0
5-41	All	13	CITY OF EAST ST. LOUIS	84,000	0
5-42	pt.6	5	JAMES H. OLDHAM and ESTHER OLDHAM, his wife	2,100	0
5-43	pt.6	5	ROBERT C. EASTERN and INEZ EASTERN, his wife	3,150	0
5-44	pt.8	5	ALLEN J. DIXON and LUCILLE DIXON, his wife	4,200	0
5-45	pt.9	12	HERBERT E. HOTTES	4,060	0
5-46	pt.10	6	ELIZABETH CAMPBELL, et. al.	3,540	0
5-47	pt.8, pt.9	6	ROSHELLER MARIE NELSON	5,600	0
5-50	1	7	JACK GIGGER and WILLIE GIGGER, his wife	931	7,469
5-51	pt.7	14	J.P. DRURY	2,060	2,140
5-52	pt.6 pt.7	12	ARTHUR TUCKER and ETHEL TUCKER his wife	1,336	2,864
5-1A	pt.9,10	5	HERBERT E HOTTES	9,240	0
5-1B	pt.9	5	HERBERT E HOTTES	4,200	0
5-1C	pt.3,4&5	5	HERBERT E HOTTES	21,000	0
5-58	pt.8	14	ELDRA ROWERY and ANNA MAE ROWERY, his wife	696	2,384
5-59	5	14	LOUIS D. HAGES and CHERRY L. HAGES, his wife	1,243	7,157
5-60	pt.6, pt.7	12	HERBERT E. HOTTES	912	7,488
5-60A	pt.6, pt.7	12	HERBERT E. HOTTES	2,207	1,993
5-61	pt.8	14	EMMA L. VEACH	90	5,230

(1) BOOK OF PLATS 'C', PAGES 314 & 315

LEGEND

Symbol	Meaning
—AC—	Access Control and Right of Way line
	Property line
	Same Ownership
	Existing R.O.W. line
(100')	Recorded dimension
100'	Measured dimension
10	Lot Number
R	Residential
C	Commercial
G	Garage
S	Shed
1½-	1½-Stories
F	Frame
B	Brick
C.B.	Concrete Block
—AC—	Access Control line

I hereby certify that this is a correct Plat showing the Right of Way required for a Highway known as Federal Aid Interstate Route 70, located in the City of East St Louis, St. Clair County, Illinois, as now surveyed and staked out by H.W. Lochner, Inc., for the department of Public Works and Buildings of the State of Illinois

by ______________ Illinois Land Surveyor ______ Date

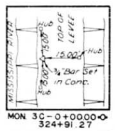
Approved ______________ District Engineer ______ Date

Completed 5-28-64
Rev. 4-8-64
Rev. 2-6-64

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS
F.A.I. ROUTE 70
RIGHT OF WAY PLAN
TRENDLEY AVE. TO BOND AVE.
SCALE: 1" = 50'

H. W. LOCHNER, INC
ENGINEERS
CHICAGO, ILL

REFERENCE TIES TO TRAVERSE LINE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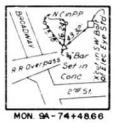
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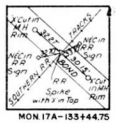
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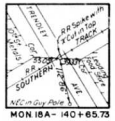
MON. 25A-199+95.30

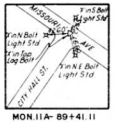

MON. 4A-5+99.85


MON. 10A-82+71.20


MON. 18A-140+65.73


MON. 26A-208+30.32


MON. 4C-22+31.74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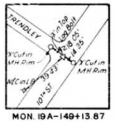
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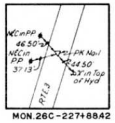
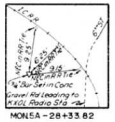
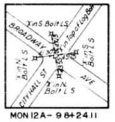

MON. 26C-227+88.42


MON. 5A-28+33.82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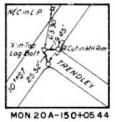
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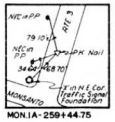
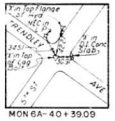
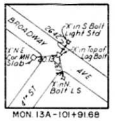

MON. 1A-259+44.75


MON. 6A-40+39.09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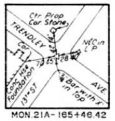
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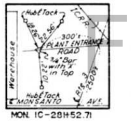
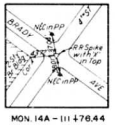

MON. 1C-288+52.71


MON. 7A-46+65.51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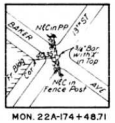
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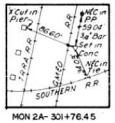
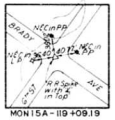

MON. 2A-301+76.45


MON. 8A-57+46.15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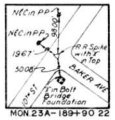
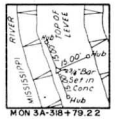

MON. 23A-189+90.22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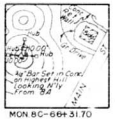
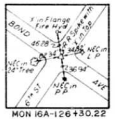

MON. 8C-66+31.70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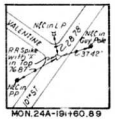

MON. 24A-191+60.89

LIST OF BENCH MARKS

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB	ST. CLAIR	269	31
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		

B.M. (S & P) ELEV. 413.010
X CUT ON TOP OF BRIDGE PIER WALL
STA. 53+35.27 (F.A.I. 55 & 70) CENTERLINE

B.M. #6 ELEV. 415.721
R.R. SPIKE IN EAST FACE OF POWER POLE ON N.W. CORNER OF 5TH ST. & TRENDLEY AVE.

B.M. #7 ELEV. 416.506
R.R. SPIKE IN NORTH FACE OF POWER POLE ON N. SIDE OF 6TH ST. (44' N.E. OF MONUMENT 7A)

B.M. #8 ELEV. 417.048
X CUT IN S.E. BOLT ON TOP FLANGE OF FIRE HYDRANT (CORNER OF MAIN ST. & CONVERSE AVE.)

B.M. #9 ELEV. 426.283
R.R. SPIKE IN EAST FACE OF POWER POLE 15' N.W. OF CONCRETE MONUMENT 9A.

B.M. #10 ELEV. 419.235
U.S.C. & G.S. MONUMENT R 146 1949 ON S. E. CORNER CONCRETE ABUTMENT OF VETERANS BRIDGE ON N. SIDE OF MISSOURI AVE.

B.M. #11 ELEV. 417. 395
X-CUT IN BOLT OF LIGHT STANDARD ON S.E. CORNER OF MISSOURI AVE. & MAIN ST.

B.M. #12 ELEV. 418.980
X-CUT IN BOLT ON TOP FLANGE OF FIRE HYDRANT ON N. E. CORNER OF MAIN ST. & BROADWAY AVE.

B.M. #13 ELEV. 416.575
X-CUT IN S. W. BOLT OF LIGHT STANDARD ON S. E. CORNER OF 4TH ST. & BROADWAY AVE.

B.M. #14 ELEV. 412.067
R.R. SPIKE IN NORTH FACE OF POWER POLE ON S. E. CORNER OF 4TH ST. & BRADY AVE.

B.M. #15 ELEV. 412.016
X-CUT IN N. E. BOLT ON TOP FLANGE OF FIRE HYDRANT ON S. E. CORNER OF 6TH ST. & BRADY.

B.M. #16 ELEV. 412.182
R.R. SPIKE IN EAST FACE OF POWER POLE ON S. W. CORNER OF 6TH ST. & BOND AVE.

B.M. #17 ELEV. 413.338
X-CUT IN EAST END OF FIRST STEP ON N. SIDE OF FRANKLIN PUBLIC SCHOOL.

B.M. #18 ELEV. 414.526
R.R. SPIKE IN NORTH FACE OF POWER POLE ON S. W. CORNER OF 8TH ST. & TRENDLEY AVE.

B.M. #19 ELEV. 411.788
R.R. SPIKE IN SOUTH FACE OF POWER POLE ON S. W. CORNER OF 10TH ST. & TRENDLEY AVE.

B.M. #20 ELEV. 407.592
R.R. SPIKE IN S. FACE POWER POLE ON N. E. CORNER OF 13TH ST. & TRENDLEY AVE.

B.M. #21 ELEV. 410.879
R.R. SPIKE IN WEST FACE OF POWER POLE ON N. W. CORNER OF 13TH ST. AND BAKER AVE.

B.M. #22 ELEV. 412.554
R.R. SPIKE IN SOUTH FACE OF POWER POLE ON N. W. CORNER OF 10TH ST. & VALENTINE AVE.

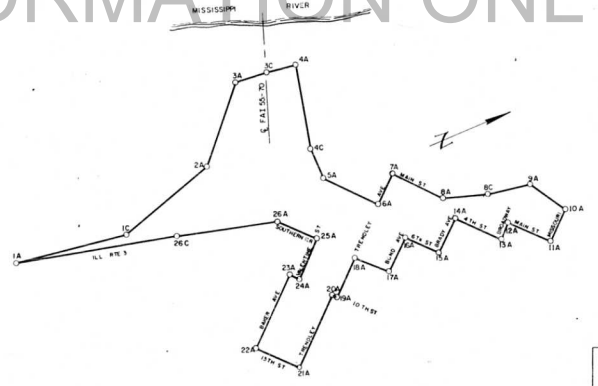
B.M. #23 ELEV. 420.307
X-CUT IN TOP R.R. RAIL DRIVEN VERTICALLY & MARKED MH#6 (41.50' E. OF CONC. MON. 25A)

B.M. #24 ELEV. 415.536
X-CUT IN TOP OF CONCRETE RETAINING WALL (47.20' WEST OF CONC. MON 26A)

B.M. #25 ELEV. 410.214
R.R. SPIKE IN POWER POLE ON THE EAST SIDE OF ROUTE 8 @ McARTHUR BRIDGE.

B.M. #26 ELEV. 404.396
X-CUT IN N. W. CORNER OF CONCRETE ABUTMENT @ CENTER PIER OF ILL. CENTRAL R. R. BRIDGE OVER ILL. RTE. 3.

TRAVERSE POINT	ELEVATION
1C	399.930
2A	420.178
3A	434.060
3C	434.200
4A	434.537
5A	417.721
18A	415.048

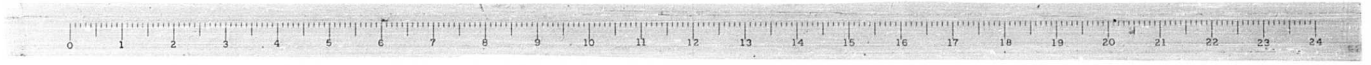


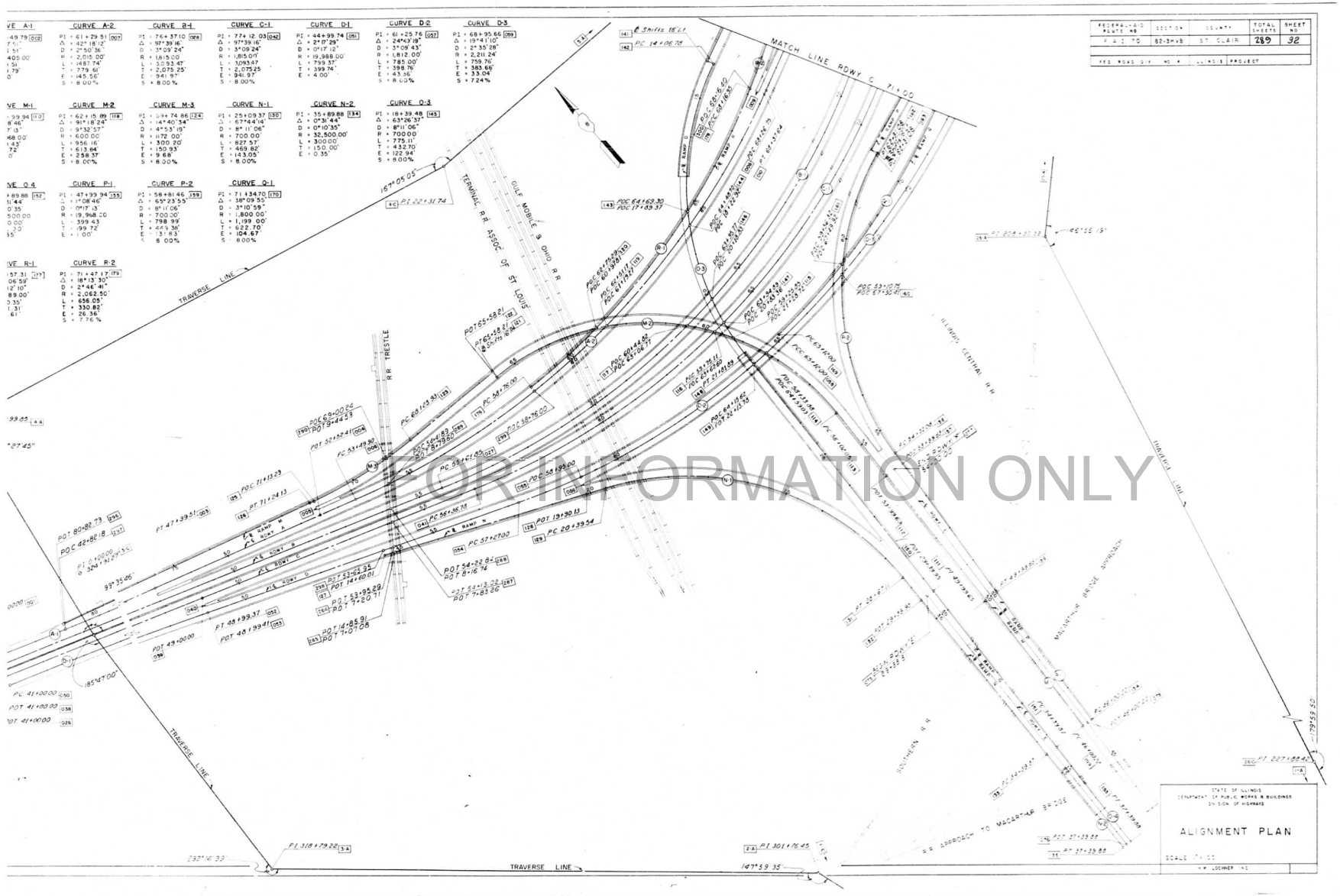
GENERAL PLAN OF TRAVERSE LINE
SCALE: 1"=1000'

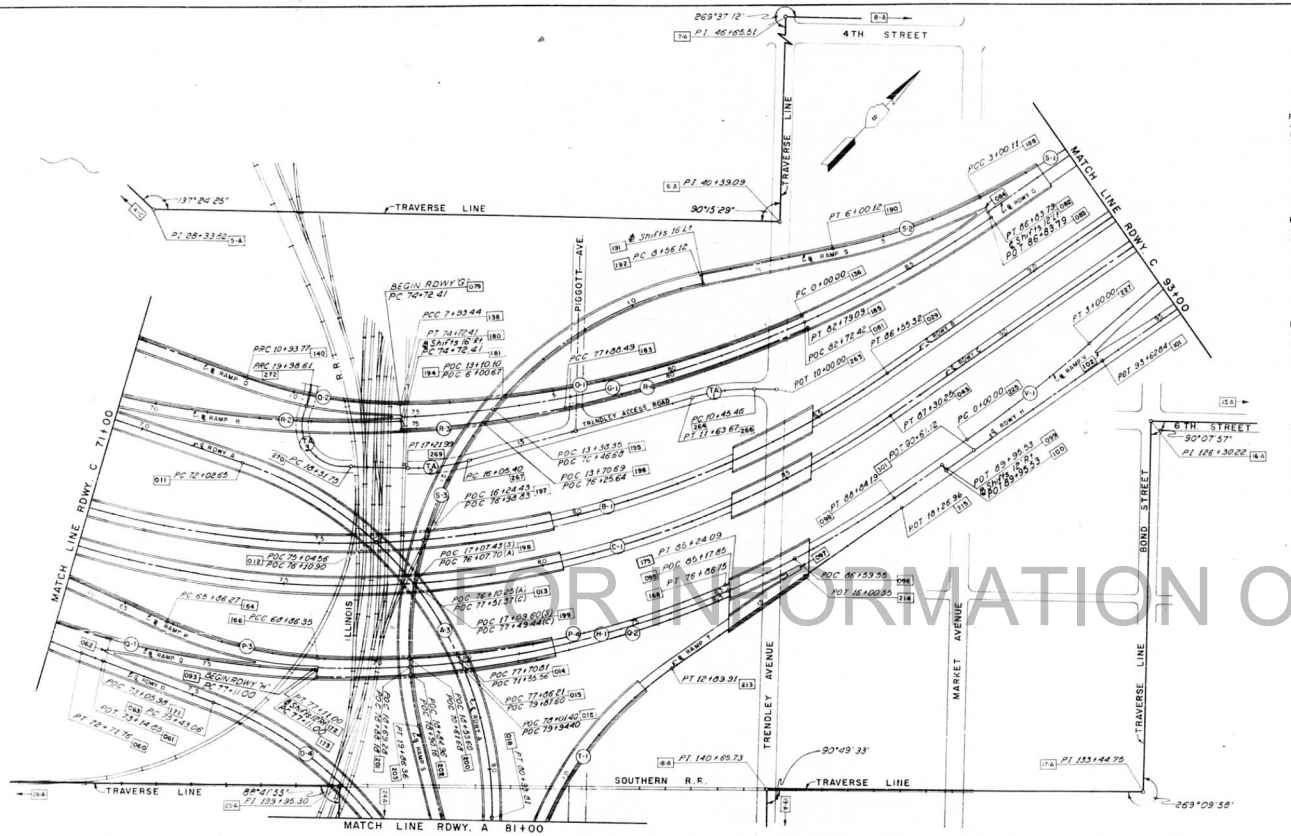
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

REFERENCE TIES TO TRAVERSE LINE
LIST OF BENCH MARKS
GENERAL PLAN OF TRAVERSE LINE

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




CURVE A-1
CURVE A-2
CURVE B-1
CURVE C-1
CURVE D-1
CURVE D-2
CURVE D-3
CURVE M-1
CURVE M-2
CURVE M-3
CURVE N-1
CURVE N-2
CURVE O-3
CURVE O-4
CURVE P-1
CURVE P-2
CURVE Q-1
CURVE R-1
CURVE R-2
MATCH LINE ROWY C 71+00
TRAVERSE LINE
TERMINAL R.R. ASSOC. OF ST. LOUIS
GULF MOBILE & OHIO R.R.
R.R. TRESTLE
ILLINOIS CENTRAL R.R.
MACARTHUR BRIDGE APPROACH
SOUTHERN R.R.
R.R. APPROACH TO MACARTHUR BRIDGE
FOR INFORMATION ONLY
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS
ALIGNMENT PLAN
SCALE 1" = 50'
H.W. LOCHNER INC.
FEDERAL-AID ROUTE NO.
SECTION
COUNTY
ST. CLAIR
TOTAL SHEETS
289
SHEET NO.
32
F.A.I. TO
82-3HVB
FED. ROAD DIV. NO. 5
ILLINOIS
PROJECT



FEDERAL-AID ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVB	ST. CLAIR	289	39
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

CURVE A-3
PI = 77+20.08 [017]
Δ = 72°56'32"
D = 8°11'06"
R = 700.00'
L = 891.16'
T = 517.43'
E = 170.48'
S = 8.00%

CURVE B-1
PI = 76+37.10 [028]
Δ = 97°39'16"
D = 3°09'24"
R = 1,815.00'
L = 3,093.47'
T = 2,075.25'
E = 941.97'
S = 8.00%

CURVE C-1
PI = 77+12.03 [042]
Δ = 97°39'16"
D = 3°09'24"
R = 1,815.00'
L = 3,093.47'
T = 2,075.25'
E = 941.97'
S = 8.00%

CURVE D-4
PI = 80+23.30 [064]
Δ = 68°54'17"
D = 8°11'06"
R = 700.00'
L = 841.83'
T = 480.24'
E = 148.90'
S = 8.00%

CURVE G-1
PI = 80+94.76 [080]
Δ = 32°23'22"
D = 2°40'26"
R = 2,142.90'
L = 1,211.39'
T = 622.36'
E = 88.55'
S = 8.00%

CURVE H-1
PI = 83+18.82 [094]
Δ = 36°57'31"
D = 3°09'01"
R = 1,818.76'
L = 1,173.19'
T = 607.82'
E = 98.88'
S = 8.00%

CURVE O-1
PI = 44+02.17 [137]
Δ = 23°05'03"
D = 2°54'34"
R = 1,969.33'
L = 793.44'
T = 402.17'
E = 40.65'

CURVE O-2
PI = 9+45.26 [139]
Δ = 20°42'27"
D = 6°53'46"
R = 831.00'
L = 300.33'
T = 151.82'
E = 13.76'
S = 8.00%

CURVE P-3
PI = 67+38.03 [165]
Δ = 21°04'14"
D = 7°01'18"
R = 816.00'
L = 300.08'
T = 151.76'
E = 13.99'
S = 8.00%

CURVE P-4
PI = 72+93.70 [167]
Δ = 26°15'16"
D = 3°16'49"
R = 1,746.72'
L = 800.40'
T = 407.35'
E = 46.87'

CURVE Q-1
PI = 71+34.70 [170]
Δ = 38°09'55"
D = 3°10'59"
R = 1,800.00'
L = 1,199.00'
T = 622.70'
E = 104.67'
S = 8.00%

CURVE Q-2
PI = 81+23.90 [174]
Δ = 24°35'11"
D = 3°01'26"
R = 1,894.81'
L = 813.05'
T = 412.90'
E = 44.47'

CURVE R-2
PI = 71+47.17 [179]
Δ = 18°13'30"
D = 2°46'41"
R = 2,062.50'
L = 656.05'
T = 330.82'
E = 26.36'
S = 7.76%

CURVE R-3
PI = 76+30.85 [182]
Δ = 10°03'40"
D = 3°10'59"
R = 1,800.00'
L = 316.08'
T = 158.45'
E = 6.96'

CURVE R-4
PI = 80+34.59 [184]
Δ = 11°19'45"
D = 2°18'33"
R = 2,481.19'
L = 490.60'
T = 246.10'
E = 12.18'

CURVE S-1
PI = 1+50.27 [187]
Δ = 7°34'04"
D = 2°31'18"
R = 2,272.14'
L = 300.11'
T = 150.27'
E = 4.96'

CURVE S-2
PI = 4+51.12 [189]
Δ = 16°11'09"
D = 5°23'42"
R = 1,062.00'
L = 300.01'
T = 151.01'
E = 10.68'
S = 8.00%

CURVE S-3
PI = 15+87.49 [193]
Δ = 92°30'
D = 8°11'06"
R = 700.00'
L = 1,130.24'
T = 731.37'
E = 312.38'
S = 8.00%

CURVE T-1
PI = 10+04.42 [212]
Δ = 50°13'06"
D = 8°11'06"
R = 700.00'
L = 613.53'
T = 328.04'
E = 75.05'
S = 8.00%

CURVE V-1
PI = 1+50.16 [226]
Δ = 6°26'58"
D = 2°08'59"
R = 2,665.15'
L = 300.00'
T = 150.16'
E = 4.23'

CURVE T A-1
PI = 11+05.00 [265]
Δ = 16°56'00"
D = 14°19'26"
R = 400.00'
L = 118.22'
T = 59.54'
E = 4.41'
S = NORMAL CROWN

CURVE T A-2
PI = 16+64.11 [268]
Δ = 16°42'00"
D = 14°19'26"
R = 400.00'
L = 116.59'
T = 58.71'
E = 4.29'
S = NORMAL CROWN

CURVE T A-3
PI = 19+46.25 [271]
Δ = 100°38'00"
D = 60°18'41"
R = 95.00'
L = 166.86'
T = 114.50'
E = 53.78'
S = NORMAL CROWN

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ALIGNMENT PLAN

SCALE: 1" = 100'

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

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB	ST. CLAIR	249	34
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		

COORDINATE NORTH	COORDINATE EAST	DESCRIPTION
		TRAVERSE POINT LOCATIONS
3,585.015	31,748.167	TRAVERSE POINT
5,770.707	32,060.956	TRAVERSE POINT
7,707.391	31,473.777	TRAVERSE POINT
8,827.340	30,191.148	TRAVERSE POINT
9,438.510	30,227.520	TRAVERSE POINT
10,030.665	30,323.293	TRAVERSE POINT
9,673.297	31,915.572	TRAVERSE POINT
9,676.088	32,517.646	TRAVERSE POINT
10,495.902	33,401.150	TRAVERSE POINT
10,957.004	32,977.137	TRAVERSE POINT
11,693.731	33,767.717	TRAVERSE POINT
12,543.360	34,017.374	TRAVERSE POINT
13,343.702	34,181.316	TRAVERSE POINT
13,769.336	34,885.169	TRAVERSE POINT
13,276.148	35,338.540	TRAVERSE POINT
12,677.994	34,689.002	TRAVERSE POINT
12,406.926	34,937.255	TRAVERSE POINT
11,741.037	34,211.759	TRAVERSE POINT
11,203.440	34,709.666	TRAVERSE POINT
10,714.228	34,179.991	TRAVERSE POINT
10,188.208	34,663.578	TRAVERSE POINT
9,692.583	34,139.968	TRAVERSE POINT
9,068.283	34,714.069	TRAVERSE POINT
9,306.467	34,646.499	TRAVERSE POINT
7,871.390	35,688.703	TRAVERSE POINT
7,261.928	35,023.359	TRAVERSE POINT
8,398.236	33,981.698	TRAVERSE POINT
8,513.438	34,107.622	TRAVERSE POINT
9,132.298	33,547.932	TRAVERSE POINT
8,558.278	32,941.500	TRAVERSE POINT
6,654.238	32,484.566	TRAVERSE POINT
		ROADWAY "A"
9,554.488	30,010.739	P.C. CURVE A-1
9,441.860	30,341.898	P.I. CURVE A-1
9,347.648	30,676.723	P.T. CURVE A-1
9,209.599	31,110.253	P.O.T. RDWY. "A" NOSE 19' LT.
9,227.787	31,115.751	NOSE RDWY."A" & RAMP "M"
9,181.391	31,203.570	P.C. CURVE A-2
8,955.809	31,949.832	P.I. CURVE A-2
9,286.586	32,643.767	P.O.C. RDWY. "A" NOSE 19' LT.
9,303.782	32,635.665	NOSE RDWY."A" & RAMP "R"
9,291.246	32,653.592	P.T. CURVE A-2
9,448.297	32,983.090	P.C. CURVE A-3
9,516.140	33,274.838	P.O.C. INT. ℄'s RDWY. "A" & RDWY. "B"
9,509.797	33,380.223	P.O.C. INT. ℄'s RDWY."A" & RDWY. "C"
9,469.823	33,535.360	P.O.C. INT. ℄'s RDWY."A" & RAMP "P"
9,464.140	33,549.676	P.O.C. INT. ℄ s RDWY."A" & RDWY. "H"
9,458.229	33,563.668	P.O.C. INT. ℄'s RDWY."A" & RAMP "Q"

POINT CODE NO	COORDINATE NORTH	COORDINATE EAST	DESCRIPTION
			ROADWAY "A"
017	9,670.926	33,450.174	P.I. CURVE A-3
018	9,289.695	33,800.024	P.T. CURVE A-3
019	9,017.044	34,050.227	P.O.T. RDWY. "A" NOSE 20' LT.
020	9,030.566	34,064.963	NOSE RDWY."A" & RAMP "T"
021	8,198.565	34,801.328	P.C. CURVE A-4
022			P.I. CURVE A-4
023			P.R. C. CURVE A-4 & 5
024			P.I. CURVE A-5
025			P.T. CURVE A-5
			ROADWAY "B"
026	9,531.766	30,003.011	P.O.T. BEGIN RDWY."B"; BEGIN RDWY. "A" 24' LT.
027	9,061.065	31,387.008	P.C. CURVE B-1
028	8,392.855	33,351.732	P.I. CURVE B-1
029	10,429.078	33,752.290	P.T. CURVE B-1
030	12,084.459	34,077.930	P.O.T. RDWY. "B" NOSE 27' LT.
031	12,089.671	34,051.437	NOSE RDWY "B" & RAMP "U"
032	12,526.713	34,164.928	P.C. CURVE B-2
033	12,942.279	34,246.676	P.I. CURVE B-2
034	13,258.700	34,528.201	P.C.C. CURVE B-2 & 3
035	13, 787.672	34,998.836	P.I. CURVE B-3
036	13,942.851	35,689.652	P.T. CURVE B-3
037	13,977.261	35,842.835	P.O.T. END RDWY."B"
			ROADWAY "C"
038	9,501.471	29,992.707	P.O.T. BEGIN RDWY. "C"; BEGIN RDWY. "D" 24' RT.
039	9,243.878	30,750.102	P.O.T. RDWY. "C" NOSE 20' RT.
040	9,224.943	30,743.662	NOSE RDWY. "C" & RDWY. "D"
041	9,006.642	31,447.643	P.C. CURVE C-1
042	8,338.433	33,412.368	P.I. CURVE C-1
043	10,374.655	33,812.925	P.T. CURVE C-1
046	12,542.256	34,239.327	P.C. CURVE C-2
047	13,469.675	34,421.765	P.I. CURVE C-2
048	13,631.545	35,352.994	P.T. CURVE C-2
049	13,670.326	35,576.100	P.O.T. END RDWY "C"
			ROADWAY "D"
050	9,478.749	29,984.979	P.C. CURVE D-1; BEGIN RDWY. "D"
051	9,350.038	30,363.427	P.I. CURVE D-1
052	9,206.298	30,736.426	P.T. CURVE D-1
053	9,206.281	30,736.470	P.O.T. RDWY. "D" NOSE 20' LT.
054	8,908.693	31,508.701	P.C. CURVE D-2
055	8,855.631	31,668.038	P.O.C. RDWY. "D" NOSE 20' RT.
056	8,836.384	31,662.605	NOSE RDWY "D" & RAMP "N"
057	8,765.306	31,880.787	P.I. CURVE D-2
058	8,791.367	32,278.692	P.C.C. CURVE D-2 & 3; BEGIN RAMP "Q" 12' LT.
059	8,816.441	32,661.531	P.I. CURVE D-3
060	8,969.015	33,013.548	P.T. CURVE D-3
061	8,986.151	33,053.085	P.O.T. RDWY "D" NOSE 20' LT.

POINT CODE NO	COORDINATE NORTH	COORDINATE EAST	DESCRIPTION
			ROADWAY "D"
062	9,004.502	33,045.131	NOSE RDWY "D" & RAMP "Q"
063	9,076.907	33,262.414	P.C. CURVE D-4
064	9,267.890	33,703.106	P.I. CURVE D-4
065	8,925.526	34,039.882	P.T. CURVE D-4
066	8,853.313	34,110.916	P.O.T. RDWY. "D" NOSE 19' LT.
067	8,866.638	34,124.461	NOSE RDWY "D" & RAMP "S"
068	8,461.458	34,496.376	P.C. CURVE D-5
069	8,318.877	34,636.630	P.I. CURVE D-5
070	8,171.519	34,771.857	P.C.C. CURVE D-5 & 6
071			P.I. CURVE D-6
072			P.R. C. CURVE D-6 & 7
073			P.I. CURVE D-7
074			P.T. CURVE D-7
			ROADWAY "E"
075	8,062.906	32,133.039	NOSE & BEGIN ROADWAY "E"
076	7,263.307	32,105.853	P.O.T. RDWY."E" END RAMP "N" 12' RT. END RAMP "O" 12' LT.
			ROADWAY "F"
077	8,357.753	32,276.740	NOSE & END ROADWAY "F"
078	7,559.424	32,228.611	P.O.T. RDWY. "F" BEGIN RAMP "M" 12' LT. BEGIN RAMP "P" 12' RT.
			ROADWAY "G"
079	9,722.515	33,140.019	NOSE & P.C. CURVE G-1 BEGIN RDWY. "G"
080	10,173.819	33,568.565	P.I. CURVE G-1
081	10,390.904	33,571.150	P.O.C. RDWY."G"; BEGIN RAMP "O" 12' LT.; END RAMP "R" 12' RT.
082	10,784.471	33,688.690	P.T. CURVE G-1 ℄ SHIFTS 12' LT. TO 083
083	10,786.787	33,676.916	P.O.T. RDWY. "G" NOSE 8' LT.
084	10,788.331	33,669.066	NOSE RDWY. "G" & RAMP "S"
085	11,375.504	33,792.726	P.O.T. RDWY. "G" NOSE 19' RT.
086	11,371.837	33,811.368	NOSE RDWY "G" & RAMP "U"
087	11,751.131	33,866.618	P.O.T. RDWY."G" ℄ SHIFTS 14' RT. TO 088
088	11,748.429	33,880.354	P.C. CURVE G-2
089	11,941.019	33,918.240	P.I. CURVE G-2
090	11,940.444	33,954.053	P.O.C. RDWY. "G" NOSE 32' LT.
091	11,956.861	33,926.586	NOSE RDWY."G" & RELOC. MAIN
092	12,073.982	34,062.625	P.T. CURVE G-2 END RDWY. "G"
			ROADWAY "H"
093	9,264.459	33,358.652	NOSE & P.C. CURVE H-1 BEGIN RDWY. "H"
094	9,670.480	33,810.971	P.I. CURVE H-1
095	9,916.936	33,821.977	P.O.C. RDWY. "H"; END RAMP "P" 12' LT.; END RAMP "Q" 12' RT.
096	10,049,688	33,871.477	P.O.C. RDWY. "H" NOSE 19' RT.
097	10,043.752	33,889.496	NOSE RDWY "H" & RAMP "T"
098	10,266.870	33,928.290	P.T. CURVE H-1; END RAMP "T" 24' RT.
099	10,376.109	33,949.780	P.O.T. RDWY. "H" ℄ SHIFTS 12' RT. TO 100

POINT CODE NO	COORDINATE NORTH	COORDINATE EAST	DESCRIPTION
			ROADWAY "H"
100	10,373.793	33,961.554	P.O.T. RDWY. "H"
101	10,734.205	34,032.453	P.O.T. RDWY. "H" NOSE 20' LT.
102	10,738.063	34,012.828	NOSE RDWY. "H" & RAMP "V"
103	11,614.254	34,205.572	P.O.T. RDWY. "H" ℄ SHIFTS 14' RT. TO 104
104	11,611.552	34,219.309	P.C. CURVE "-2
105	11,743.077	34,245.182	P.I. CURVE H-2
106	11,737.272	34,266.446	P.O.C. RDWY. "H" NOSE 29' LT.
107	11,751.762	34,241.326	NOSE RDWY. "H" & 4TH ST.
108	11,833.916	34,343.755	P.T. CURVE H-2 END RDWY. "H"
			RAMP "M"
109	7,560.147	32,216.633	P.C. CURVE M-1 BEGIN RAMP "M"
110	7,759.505	32,228.652	P.I. CURVE M-1
111	7,959.065	32,236.680	P.T. CURVE M-1
112	8,358.718	32,252.759	P.O.T. RAMP "M" NOSE 24' RT.
113	8,560.973	32,260.896	P.C. CURVE M-2
114	8,788.678	32,225.787	P.O.C. INT. ℄'s RAMP "M" & RDWY "D"
115	8,872.468	32,188.084	P.O.C. INT. ℄'s RAMP "M" & RAMP "O"
116	8,914.692	32,162.744	P.O.C. INT. ℄'s RAMP "M" & RDWY "C"
117	8,970.590	32,121.155	P.O.C. INT. ℄'s RAMP "M" & RDWY "B"
118	9,174.319	32,285.573	P.I. CURVE M-2
119	9,103.040	31, 964.252	P.O.C. INT. ℄'s RAMP "M" & RDWY "A"
120	9,114.796	31,943.187	P.O.C. INT. ℄'s RAMP "M" & RAMP "R"
121	9,185.002	31,671.824	P.T. CURVE M-2 ℄ SHIFTS 14' RT. TO 122
122	9,200.999	31,672.102	P.O.T. RAMP "M"
123	9,205.624	31,406.420	P.C. CURVE M-3
124	9,208.251	31,255.515	P.I. CURVE M-3
125	9,246.127	31,120.713	P.O.C. RAMP "M" NOSE 19' LT.
126	9,249.024	31,110.199	P.T. CURVE M-3
			RAMP "N"
127	9,027.324	31,167.486	P.O.T. BEGIN RAMP "N"
128	8,814.404	31,652.966	P.O.T. RAMP "N" NOSE 24' LT.
129	8,794.560	31,698.214	P.C. CURVE N-1
130	8,605.857	32,128.476	P.I. CURVE N-1
131	8,136.177	32,116.847	P.T. CURVE N-1
132	8,063.351	32,115.044	P.O.T. RAMP "N" NOSE 18' LT.
133	7,563.587	32, 102.670	P.C. CURVE N-2
134	7,413.630	32,098.957	P.I. CURVE N-2
135	7,263.714	32,093.860	P.T. CURVE N-2 END RAMP "N"

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

LIST OF COORDINATE POINTS AND DESCRIPTIONS

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

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB	ST. CLAIR	289	35
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		

POINT CODE NO	COORDINATE NORTH	COORDINATE EAST	DESCRIPTION
			RAMP "O"
6	10,395.424	33,560.033	P.C. CURVE O-1 BEGIN RAMP "O"
7	10,022.872	33,408.843	P.I. CURVE O-1
8	9,739.548	33,123.112	P.C.C. CURVE O-1 & 2 NOSE 24' LT.
9	9,632.592	33,015.360	P.I. CURVE O-2
10	9,570.645	32,876.749	P.T. CURVE O-2
11	9,442.932	32,590.979	P.O.T. RAMP "O" ℄ SHIFTS 16' LT.
12	9,428.325	32,597.507	P.C. CURVE O-3
13	9,186.777	32,306.954	P.O.C. INT. ℄'s RAMP "O" & RAMP "R"
14	9,158.717	32,288.570	P.O.C. INT. ℄'s RAMP "O" RDWY. "A"
15	9,251.777	32,202.466	P.I. CURVE O-3
16	8,980.104	32,209.641	P.O.C. INT. ℄'s RAMP "O" & RDWY "B"
17	8,917.304	32,194.932	P.O.C. INT. ℄'s RAMP "O" & RDWY "C"
18	8,819.484	32,183.772	P.T. CURVE O-3
19	8,787.628	32,182.395	P.O.T. INT. ℄'s RAMP "O" & RDWY."D"
50	8,062.128	32,151.022	P.O.T. RAMP "O" NOSE 18' RT.
51	7,562.677	32,129.424	P.C. CURVE O-4
52	7,412.815	32,122.943	P.I. CURVE O-4
53	7,262.899	32,117.845	P.T. CURVE O-4 END RAMP "O"
			RAMP "P"
54	7,558.702	32,240.590	P.C. CURVE P-1 BEGIN RAMP "P"
55	7,958.061	32,252.608	P.I. CURVE P-1
56	7,957.140	32,268.612	P.T. CURVE P-1
57	8,355.830	32,300.663	P.O.T. RAMP "P" NOSE 24' LT.
58	8,388.180	32,303.263	P.C. CURVE P-2
59	8,836.115	32,339.273	P.I. CURVE P-2
60	8,816.372	32,495.573	P.O.C. INT. ℄'s RAMP "P" & RDWY. "D"
61	8,834.512	32,513.601	P.O.C. INT. ℄'s RAMP "P" & RAMP "O"
62	8,989.851	32,761.538	P.T. CURVE P-2 ℄ SHIFTS 16' LT. TO 163
63	9,004.885	32,756.064	P.O.T. RAMP "P"
64	9,126.399	33,089.826	P.C. CURVE P-3
65	9,178.316	33,232.424	P.I. CURVE P-3
66	9,278.028	33,346.825	P.C.C. CURVE P-3&4 NOSE 18' RT.
67	9,545.681	33,653.954	P.I. CURVE 4
68	9,921.551	33,810.904	P.T. CURVE 4, END RAMP "P"
			RAMP "Q"
69	8,803.341	32,277.908	P.C. CURVE Q-1, BEGIN RAMP "Q"
70	8,844.037	32,899.272	P.I. CURVE Q-1
71	9,025.469	33,033.488	P.O.C. RAMP "Q" NOSE 24' RT.
72	9,259.994	33,362.650	P.T. CURVE Q-1 NOSE 6' LT., ℄ SHIFTS 12' RT. TO 173
73	9,251.064	33,370.676	P.C. CURVE Q-2
74	9,531.309	33,673.910	P.I. CURVE Q-2
75	9,912.311	33,833.050	P.T. CURVE Q-2 END RAMP "Q"
			RAMP R
76	9,106.250	31,721.614	P.C. CURVE R-1 BEGIN RAMP "R"
77	9,042.110	32,202.659	P.I. CURVE R-1
78	9,020.494	32,626.624	P.C.C. CURVE R-1 & 2
79	8,977.115	32,919.023	P.I. CURVE R-2

POINT CODE NO	COORDINATE NORTH	COORDINATE EAST	DESCRIPTION
			RAMP "R"
180	9,717.006	33,145.821	P.T. CURVE R-2 NOSE 8' LT. ℄ SHIFTS 16' RT. TO 181
181	9,705.989	33,157.423	P.C. CURVE R-3
182	9,820.889	33,266.529	P.I. CURVE R-3
183	9,953.082	33,353.884	P.C.C. CURVE R-3 & 4
184	10,158.406	33,489.564	P.I. CURVE R-4
185	10,386.383	33,582.266	P.T. CURVE R-4 END RAMP "R"
			RAMP "S"
186	11,085.817	33,723.510	P.C. CURVE S-1 BEGIN RAMP "S"
187	10,938.369	33,694.504	P.I. CURVE S-1
188	10,796.025	33,646.333	P.C.C. CURVE S-1 & 2 NOSE 24' LT.
189	10,652.983	33,597.925	P.I. CURVE S-2
190	10,529.104	33,511.562	P.T. CURVE S-2
191	10,319.101	33,365.157	P.O.T. ℄ SHIFTS 16' LT. TO 192
192	10,309.951	33,378.283	P.C. CURVE S- 3
193	9,709.987	32,960.015	P.I. CURVE S-3
194	9,881.823	33,253.063	P.O.C. INT. ℄'s RAMP "S" & RAMP "O"
195	9,853.629	33,254.754	P.O.C. INT. ℄'s RAMP "S" & RDWY "G"
196	9,821.463	33,258.085	P.O.C. INT. ℄'s RAMP "S" & RAMP "R"
197	9,580.943	33,334.475	P.O.C. INT. ℄'s RAMP "S" & RDWY "B"
198	9,510.142	33,377.694	P.O.C. INT. ℄'s RAMP "S" & RDWY "A"
199	9,508.367	33,378.932	P.D.C. INT. ℄'s RAMP "S" & RDWY "C"
200	9,399.660	33,472.994	P.O.C. INT. ℄ s RAMP "S" & RAMP "P"
201	9,389.887	33,484.537	P.O.C. INT. ℄'S RAMP "S" & RDWY. "H"
202	9,378.699	33,496.311	P.O.C. INT. ℄'s RAMP "S" & RAMP "Q"
203	9,318.407	33,577.728	P.T. CURVE S-3
204	9,159.822	33,827.894	P.C. CURVE S-4
205	9,079.032	33,955.339	P.I. CURVE S-4
206	8,967.855	34,057.364	P.T. CURVE S-4
207	8,879.484	34,138.460	P.O.T. RAMP "S" NOSE 19' RT.
208	8,326.991	34,645.472	P.O.T. END RAMP "S"
			RAMP "T"
209	8,633.827	34,418.185	P.O.T. BEGIN RAMP "T"
210	9,045.699	34,083.591	P.O.T. RAMP "T" NOSE 24' LT.
211	9,158.809	33,991.704	P.C. CURVE T-1
212	9,413.422	33,784.864	P.I. CURVE T-1
213	9,735.293	33,848.181	P.T. CURVE T-1
214	10,040.085	33,908.138	P.O.T. RAMP "T" NOSE 19' LT.
215	10,262.237	33,951.839	P.O.T. END RAMP "T"
			RAMP "U"
216	12,522.030	34,139.547	P.C. CURVE U-1 BEGIN RAMP "U"
217	12,374.759	34,110.576	P.I. CURVE U-1
218	12,230.807	34,068.079	P.T. CURVE U-1
219	12,096.466	34,028.419	P.O.T. RAMP "U" NOSE 24' LT.
220			P.O.T. ℄ SHIFTS 16' LT. TO 1220
1220			P.O.T. RAMP "U"
221	11,366.457	33,829.591	P.O.T. RAMP "U" NOSE 19' RT.

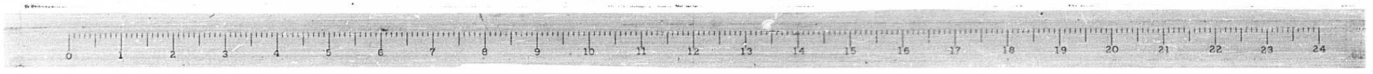
POINT CODE NO	COORDINATE NORTH	COORDINATE EAST	DESCRIPTION
			RAMP "U"
222	11,366.401	33,829.574	P.C. CURVE U-2
223	11,222.450	33,787.077	P.I. CURVE U-2
224	11,075.179	33,758.107	P.T. CURVE U-2 END RAMP "U"
			RAMP "V"
225	10,442.781	33,950.665	P.C. CURVE V-1 BEGIN RAMP "V"
226	10,590.116	33,979.648	P.I. CURVE V-1
227	10,739.774	33,991.858	P.T. CURVE V-1 NOSE 21' RT.
228	11,291.888	34,037.091	P.O.T. ℄ SHIFTS 16' RT. TO 229
229	11,290.582	34,053.037	P.C. CURVE V-2
231	11,599.428	34,078.318	P.I. CURVE V-2
232	11,903.479	34,138.129	P.T. CURVE V-2 END RAMP "V"
			RELOCATED MAIN STREET
233	12,677.994	34,689.002	P.O.T. BEGIN RELOC. MAIN & TRAVERSE POINT 12-A
234	11,967.160	33,917.102	P.O.T. MAIN ST. NOSE 14' LT.
235	11,898.009	33,842.010	P.O.T. ℄ SHIFTS 5' RT. TO 236
236	11,901.687	33,838.623	P.C. CURVE R.M.-1
237	11,858.594	33,791.829	P.I. CURVE R.M. -1
238	11,800.219	33,766.550	P.T. CURVE R.M. -1
239	11,627.416	33,691.720	P.C. CURVE R.M.-2
240	11,569.090	33,666.463	P.I. CURVE R.M.-2
241	11,526.018	33,619.722	P.T. CURVE R.M.-2
			COLLINSVILLE AVENUE EXTENSION
243	12,572.157	34,785.911	P.O.T. BEGIN COLLINSVILLE EXT.
245	12,428.41	34,463.652	P.C. CURVE CE-1
246	12,419.544	34,451.756	P.O.C. COLLINSVILLE EXT. NOSE 19' RT.
247	12,436.280	34,442.761	NOSE COLLINSVILLE EXT. & MAIN ST.
248	12,444.372	34,435.309	P.O.T. MAIN ST. NOSE 11' LT.
249	12,408.528	34,425.911	P.I. CURVE CE-1
250	12,375.977	34,390.563	P.T. CURVE CE-1 END COLL. AVE. EXT.
			RELOCATED 4TH STREET
252	12,194.655	34,948.914	P.C. CURVE R4-1
253	12,140.200	34,890.000	P.I. CURVE R4-1
254	12,123.189	34,812.055	P.T. CURVE R4-1
255	12,094.941	34,686.315	P.C. CURVE R4-2
256	12,077.321	34,607.885	P.I. CURVE R4-2
257	12,022.847	34,548.773	P.T. CURVE R4-2 ℄ SHIFTS 20' RT TO 258
258	12,037.554	34,535.220	P.O.T. ℄ 4TH STREET
259	11, 848.623	34,330.202	P.O.T. ℄ SHIFTS 5' RT. TO 260
260	11, 852.300	34,326.814	P.O.T. ℄ 4TH STREET
261	11,763.528	34,235.483	P.O.T. ℄ 4TH STREET NOSE 16' LT.
			TRENDLEY ACCESS ROAD
263	10,257.494	33,620.551	P.O.T. BEGIN TRENDLEY ACCESS ROAD
264	10,226.724	33,587.090	P.C. CURVE T.A.-1
265	10,186.422	33,543.261	P.I. CURVE T.A.-1
266	10,135.100	33,513.070	P.T. CURVE T.A.-1

POINT CODE NO	COORDINATE NORTH	COORDINATE EAST	DESCRIPTION
			TRENDLEY ACCESS ROAD
267	9,754.363	33,289.097	P.C. CURVE T.A.-2
268	9,703.759	33,259.329	P.I. CURVE T.A.-2
269	9,663.844	33,216.275	P.T. CURVE T.A.-2
270	9,589,223	33,135.785	P.C. CURVE T.A.-3
271	9,511.381	33,051.821	P.I. CURVE T.A. -3
272	9,608.266	32,990.809	P.R.C. CURVE T.A.-3
			4TH TO 5TH STREET ACCESS ROAD
273	11,945.082	34,434.874	℄ INTS. OF 4TH ST. & 4TH TO 5TH ACCESS ROAD
274	11,712.879	34,648.240	P.C. 4TH TO 5TH ACCESS ROAD
275	11,676.088	34,682.046	P.I. 4TH TO 5TH ACCESS ROAD
276	11,642.256	34,645.280	P.T. 4TH TO 5TH ACCESS ROAD
			RELOCATED 2ND STREET
278	13,736.915	34,914.939	℄ INTS. OF MISSOURI & RELOC. 2ND ST.
279	13,671.814	34,806.155	P.C.-1 RELOCATED 2ND STREET
280	13,639.767	34,752.604	P.I. -1 RELOCATED 2ND STREET
281	13,585.693	34,721.417	P.T.-1 RELOCATED 2ND STREET
282	13,531.753	34,690.356	P.C.-2 RELOCATED 2ND STREET
283	13,461.896	34,650.117	P.I.-2 RELOCATED 2ND STREET
284	13,420.503	34,580.958	P.T.-2 RELOCATED 2ND STREET
			℄ INTERSECTIONS OF ILLINOIS TERMINAL R.R. TRESTLE
285	9,016.923	31,191.202	ILL. TERM. R.R. & RAMP "N"
286	9,027.971	31,199.179	ILL. TERM. R.R. & RDWY. "D"
287	9,078.690	31,235.803	ILL. TERM. R.R. & RDWY "C"
288	9,105.826	31,255.397	ILL. TERM. R.R. & RDWY "B"
289	9,156.793	31,292.200	ILL. TERM. R.R. & RDWY "A"
290	9,209.435	31,330.213	ILL. TERM. R.R. & RAMP "M"
			℄ INTERSECTIONS OF CROSS ROADS
291	12,931.515	34,456.354	℄ BRDWY AVE & 3RD ST.
292	12,983.317	34,408.835	℄ BRDWY AVE & RDWY "C"
293	13,034.241	34,362.120	℄ BRDWY AVE & RDWY "B"
294	13,555.127	35,081.862	℄ MISSOURI AVE & RDWY "C"
295	13,653.137	34,991.866	℄ MISSOURI AVE & RDWY "B"
			MISCELLANEOUS POINTS
296	9,507.993	30,187.240	END RAMP "M"
297	9,496.506	30,183.768	P.O.C. RDWY "A", END RAMP "M" 12' LT.
298	9,038.521	31,171.801	P.O.T. RDWY. "D" BEGIN RAMP "N" 12' RT.
299	9,096.256	31,721.224	P.O.C. RDWY. "A" BEGIN RAMP "R" 12' LT.
300	9,320.517	32,626.669	P.O.C. RAMP "R" NOSE 19' RT.

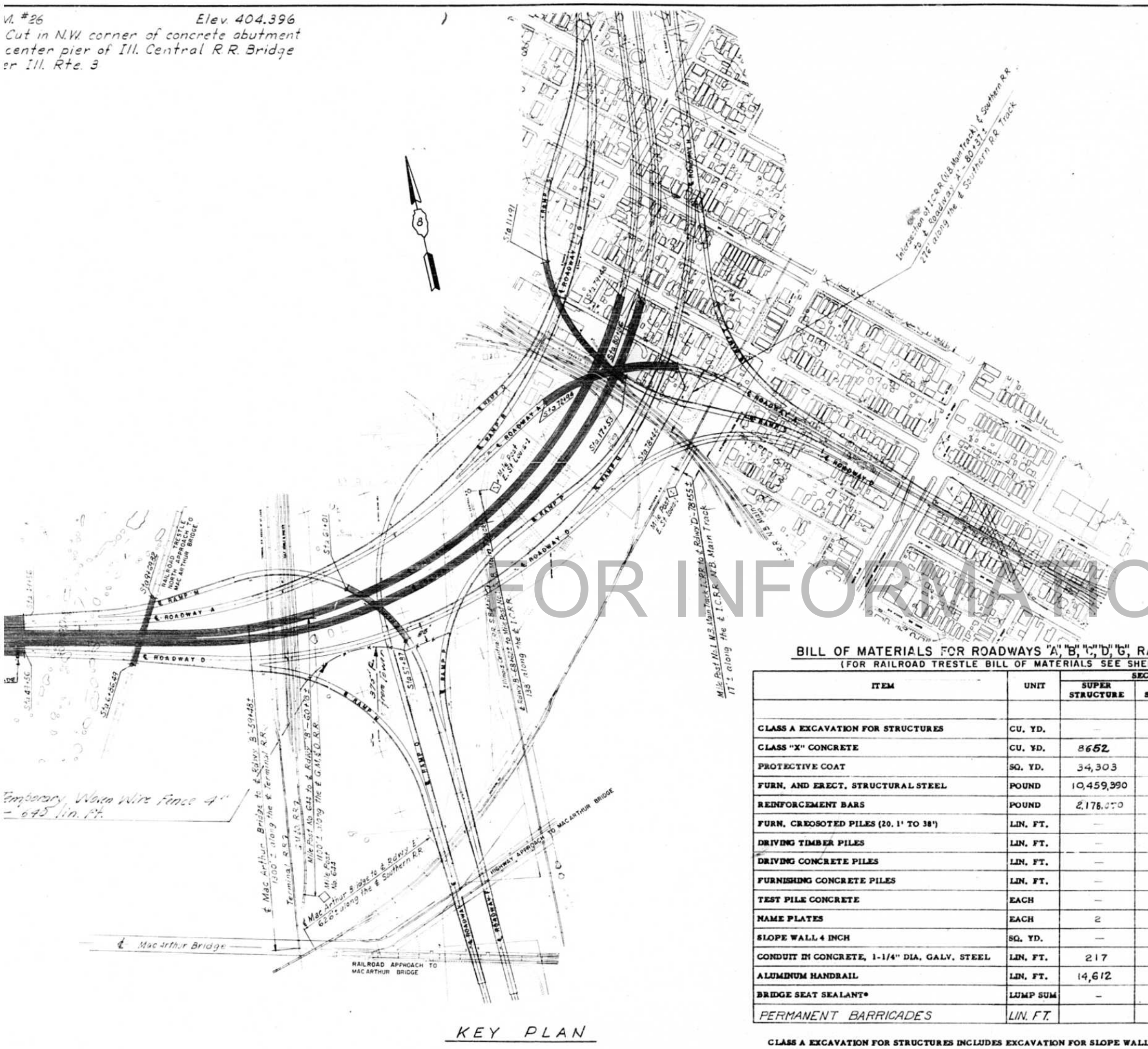
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

LIST OF COORDINATE POINTS AND DESCRIPTIONS

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



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	36
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



KEY PLAN

GENERAL NOTES

COARSE AGGREGATE TO BE USED IN PARAPET HANDRAILS AND END POST MUST BE ABSOLUTELY FREE OF CHERT, FLINT, LIMONITE, LIGNITE AND SOFT SANDSTONE.

THE CONCRETE FLOOR SLAB SHALL BE FINISHED IN ACCORDANCE WITH ARTICLE 51.19 OF THE STANDARD SPECIFICATIONS.

SLOPE WALL SHALL BE REINFORCED WITH WELDED WIRE FABRIC 6" X 6" MESH, #4 WIRES WEIGHING 58 LBS. PER 100 SQ. FT.

ALL REINFORCEMENT BARS SHALL BE LAPPED 20 DIAMETERS UNLESS OTHERWISE SHOWN.

ALL STRUCTURAL STEEL SHALL CONFORM TO A.S.T.M. DESIGNATION A-36.

ALL FIELD CONNECTIONS BOLTED, HIGH STRENGTH STEEL BOLTS 7/8" , OPEN HOLES 15/16" EXCEPT AS NOTED.

ANCHOR BOLTS SHALL BE SET BEFORE BOLTING DIAPHRAGMS OVER SUPPORTS.

ROADWAY EXPANSION GUARDS SHALL BE ASSEMBLED IN THE SHOP IN PROPER POSITION WITH THE ENDS IN PLACE AND SHALL BE LEFT ASSEMBLED FOR SHOP INSPECTION.

FINGER PLATES SHALL BE FLAME CUT AS PROVIDED IN ARTICLE 54.5 (1) OF THE STANDARD SPECIFICATIONS.

ALL SURFACE OF THE EXPANSION GUARD INACCESSIBLE AFTER ERECTION SHALL BE GIVEN TWO SHOP COATS OF RED LEAD PAINT. THE CONTACT SURFACES SHALL BE GIVEN ONE COAT OF RED LEAD PAINT. ANCHOR STUDS SHALL NOT BE PAINTED.

EXPANSION GUARDS ARE INCLUDED IN THE QUANTITY OF STRUCTURAL STEEL. ESTIMATED WEIGHT 165,470 LBS.

EXCEPT AS OTHERWISE PROVIDED, ALL STRUCTURAL STEEL SHALL RECEIVE ONE SHOP COAT OF RED LEAD PAINT AND TWO FIELD COATS OF GREEN PAINT. SEE ARTICLE 56.1 TO 56.5 INCLUSIVE OF THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

THE CONTRACTOR SHALL DRIVE ONE CONCRETE TEST PILE IN A PERMANENT LOCATION AT EACH ABUTMENT AND EACH PIER AS DIRECTED BY THE ENGINEER BEFORE ORDERING THE REMAINDER OF PILES.

CONCRETE PILES AT ABUTMENTS SHALL BE DRIVEN IN HOLES PRE CORED THROUGH THE EMBANKMENT IN ACCORDANCE WITH ARTICLE 60.9 (c) OF THE STANDARD SPECIFICATIONS.

CURVED GIRDERS, INTERMEDIATE FLOOR BEAMS AND [illegible] FLOOR BEAMS SHALL BE COMPLETELY ASSEMBLED IN THE SHOP IN PROPER POSITION BEFORE REAMING FIELD CONNECTIONS AND SHALL BE LEFT ASSEMBLED FOR SHOP INSPECTION.

PERMANENT FORMS WILL NOT BE PERMITTED IN FORMING THE CONCRETE FLOOR.

DESIGN STRESSES

fc = 1400 p.s.i. Super and Sub
fs = 20,000 p.s.i. Reinforcement
fs = 20,000 p.s.i. Struct. (A-36 Steel)
vc = 75 p.s.i. Footings
n = 10

LOADING HS 20-44 & Alt.

Note

All cross reference sheet numbers shown on the Bridge Plans are the numbers located in the lower right hand corner of each sheet.

BILL OF MATERIALS FOR ROADWAYS "A", "B", "C", "D", "G", RAMPS "M" AND "S"

(FOR RAILROAD TRESTLE BILL OF MATERIALS SEE SHEET No. 228)

ITEM	UNIT	SECTION 82-3HVB SUPER STRUCTURE	SUB-STRUCTURE	TOTAL
CLASS A EXCAVATION FOR STRUCTURES	CU. YD.	—	10,047	10,047
CLASS "X" CONCRETE	CU. YD.	8652	11,569	20,221
PROTECTIVE COAT	SQ. YD.	34,303	—	34,303
FURN. AND ERECT. STRUCTURAL STEEL	POUND	10,459,390	—	10,459,390
REINFORCEMENT BARS	POUND	2,178,070	1,712,100	3,890,170
FURN. CREOSOTED PILES (20.1' TO 38')	LIN. FT.	—	438	438
DRIVING TIMBER PILES	LIN. FT.	—	438	438
DRIVING CONCRETE PILES	LIN. FT.	—	107 624	107624
FURNISHING CONCRETE PILES	LIN. FT.	—	107 624	107624
TEST PILE CONCRETE	EACH	—	73	73
NAME PLATES	EACH	2	—	2
SLOPE WALL 4 INCH	SQ. YD.	—	774	774
CONDUIT IN CONCRETE, 1-1/4" DIA. GALV. STEEL	LIN. FT.	217	—	217
ALUMINUM HANDRAIL	LIN. FT.	14,612	—	14612
BRIDGE SEAT SEALANT*	LUMP SUM	—	1	1
PERMANENT BARRICADES	LIN. FT.			30

CLASS A EXCAVATION FOR STRUCTURES INCLUDES EXCAVATION FOR SLOPE WALL.
*BRIDGE SEAT SEALANT TO BE USED AT ABUTMENTS AND PIERS AT EXPANSION JOINTS - [INCLUDING THE TOP SURFACE OF PIER STRUTS AT EXP. JOINTS

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

KEY PLAN, GENERAL NOTES AND BILL OF MATERIAL

POPLAR STREET BRIDGE APPROACHES

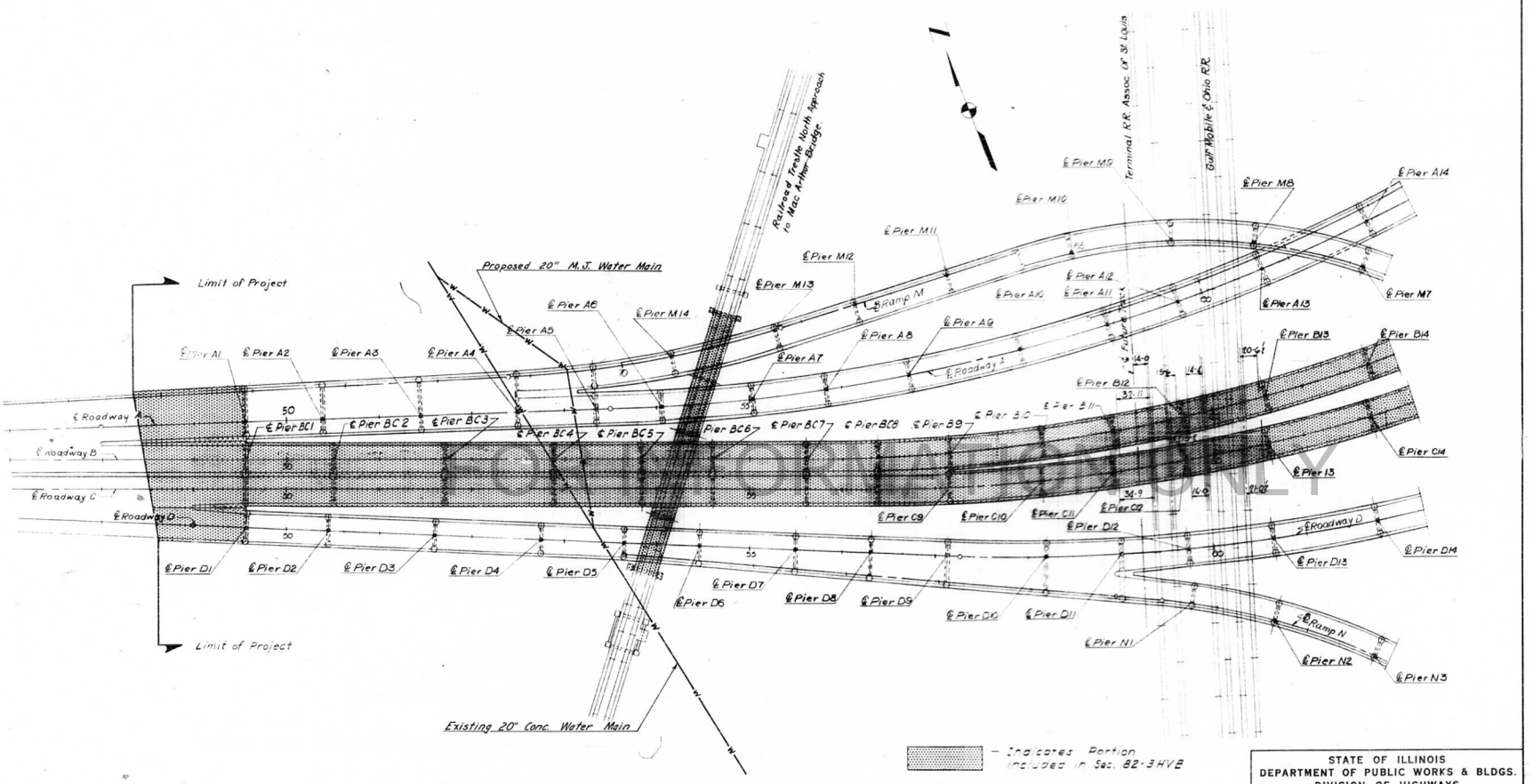
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

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

SHEET 1 of 241

Rev. W.M.D. 6/29/65 Added 645' Temp. Fence.
Permanent Barricades added KHW 6-24-65
7/2/65 - Revised no. of shop coats from 2 to 1
Revised X Conc. from 20,119 C.Y. to 20,221 C.Y. H.L.L. 6-18-65

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	37
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	



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

GENERAL PLAN

POPLAR STREET BRIDGE APPROACHES

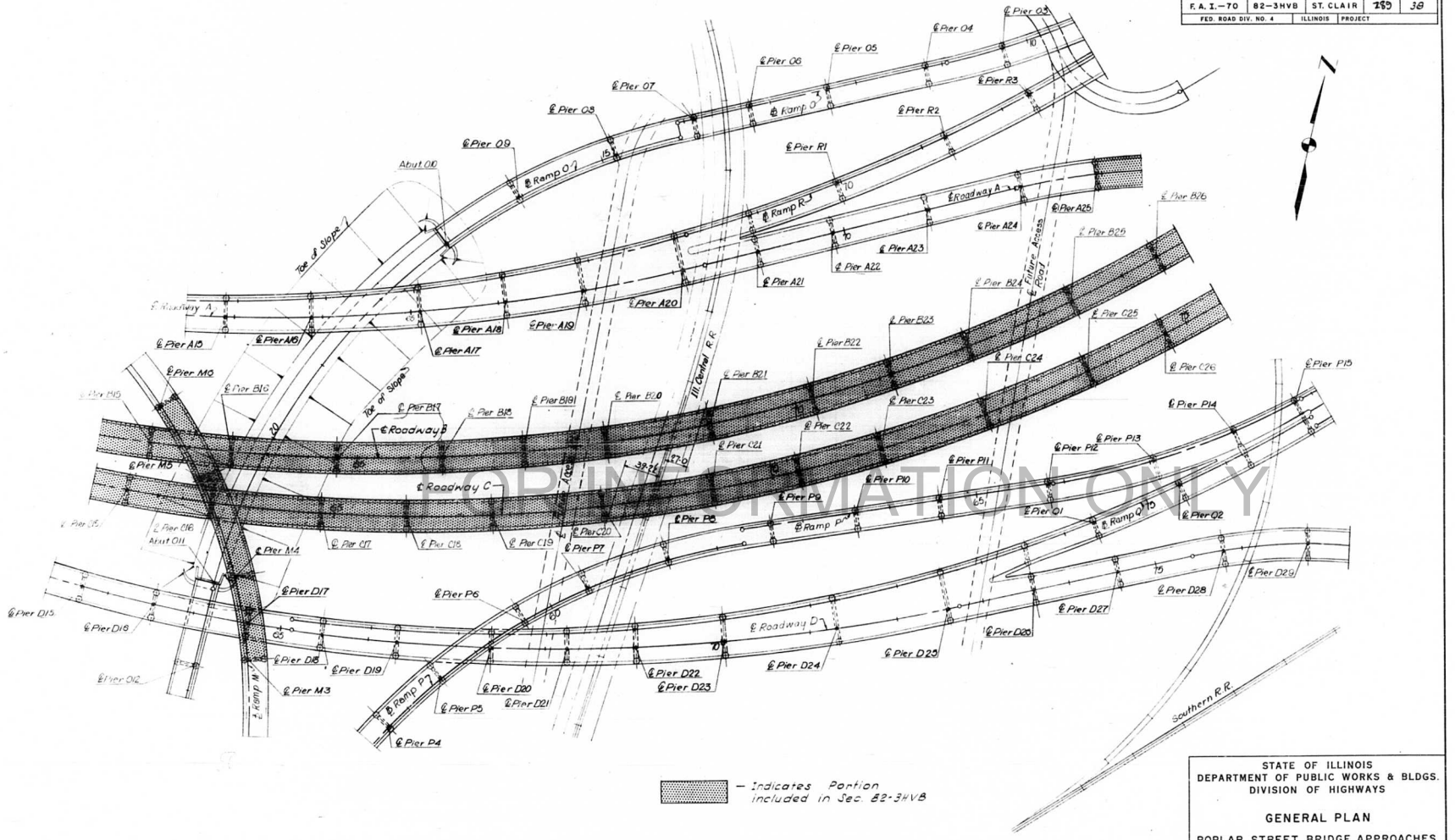
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

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

SHEET 2 of 241

BY RMR
BY RMR
BY KA

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I.—70	82-3HVB	ST. CLAIR	285	38
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



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

GENERAL PLAN

POPLAR STREET BRIDGE APPROACHES

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

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

SHEET 3 of 241

NED BY RMR
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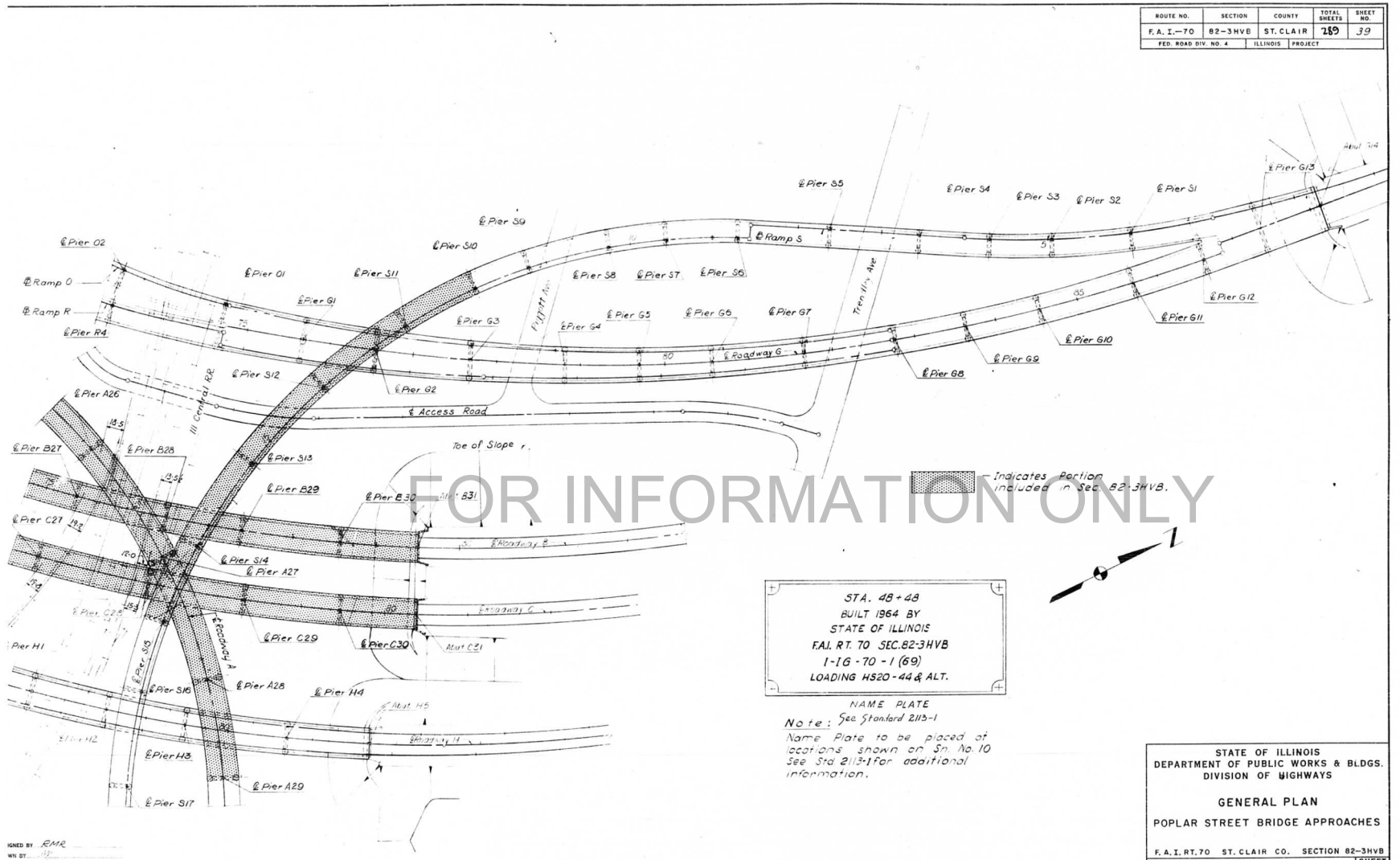
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I.—70	82-3HVB	ST. CLAIR	289	39
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	



Indicates Portion included in Sec. 82-3HVB.

STA. 48+48
BUILT 1964 BY
STATE OF ILLINOIS
F.A.I. RT. 70 SEC. 82-3HVB
I-IG-70-1(69)
LOADING HS20-44 & ALT.

NAME PLATE

Note: See Standard 2113-1

Name Plate to be placed at locations shown on Sh. No. 10 See Std 2113-1 for additional information.

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

GENERAL PLAN

POPLAR STREET BRIDGE APPROACHES

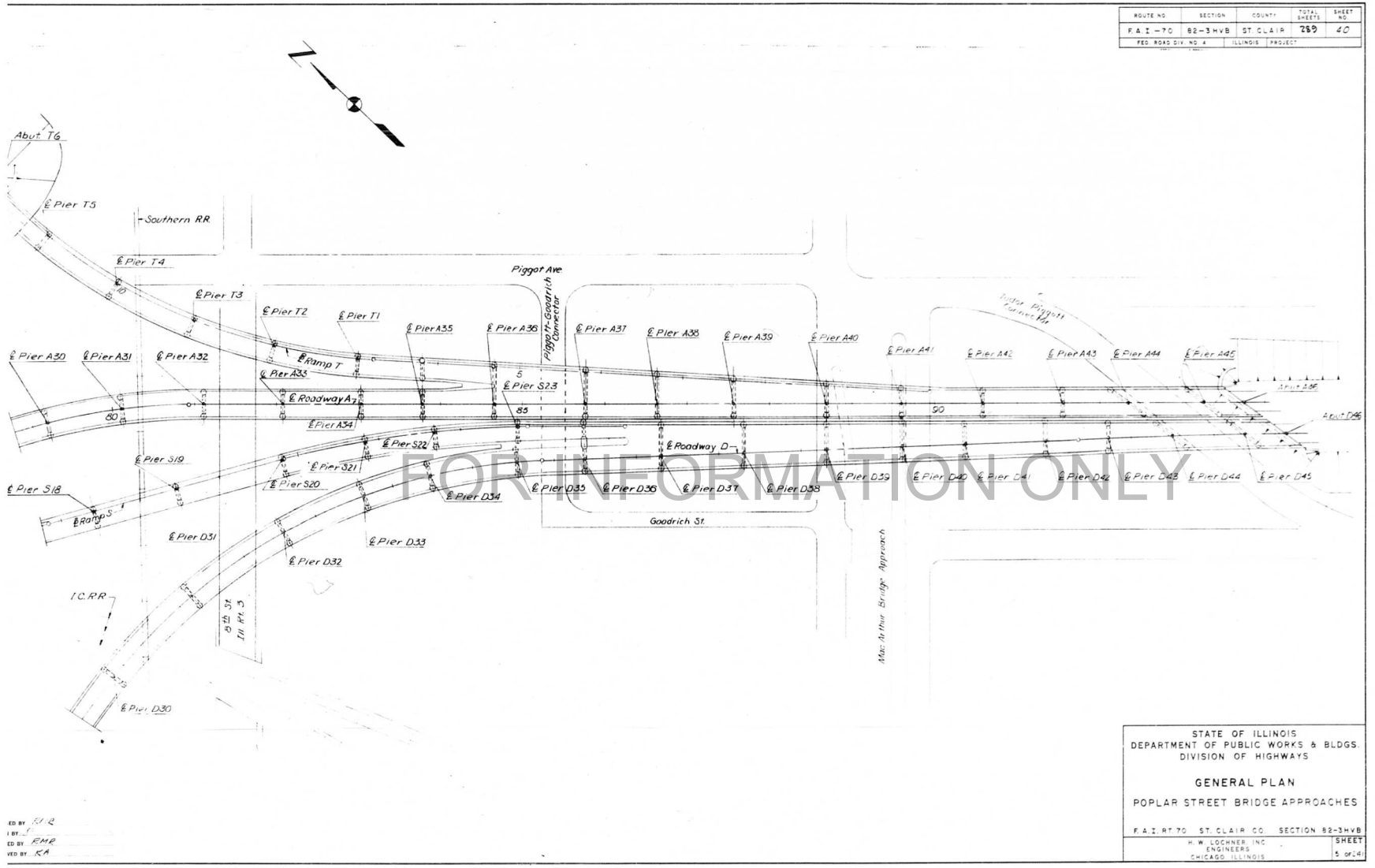
F. A. I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

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

SHEET 4 OF 241

IGNED BY RMR
WN BY
CKED BY RMR
ROVED BY KA

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	259	40
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	



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

GENERAL PLAN

POPLAR STREET BRIDGE APPROACHES

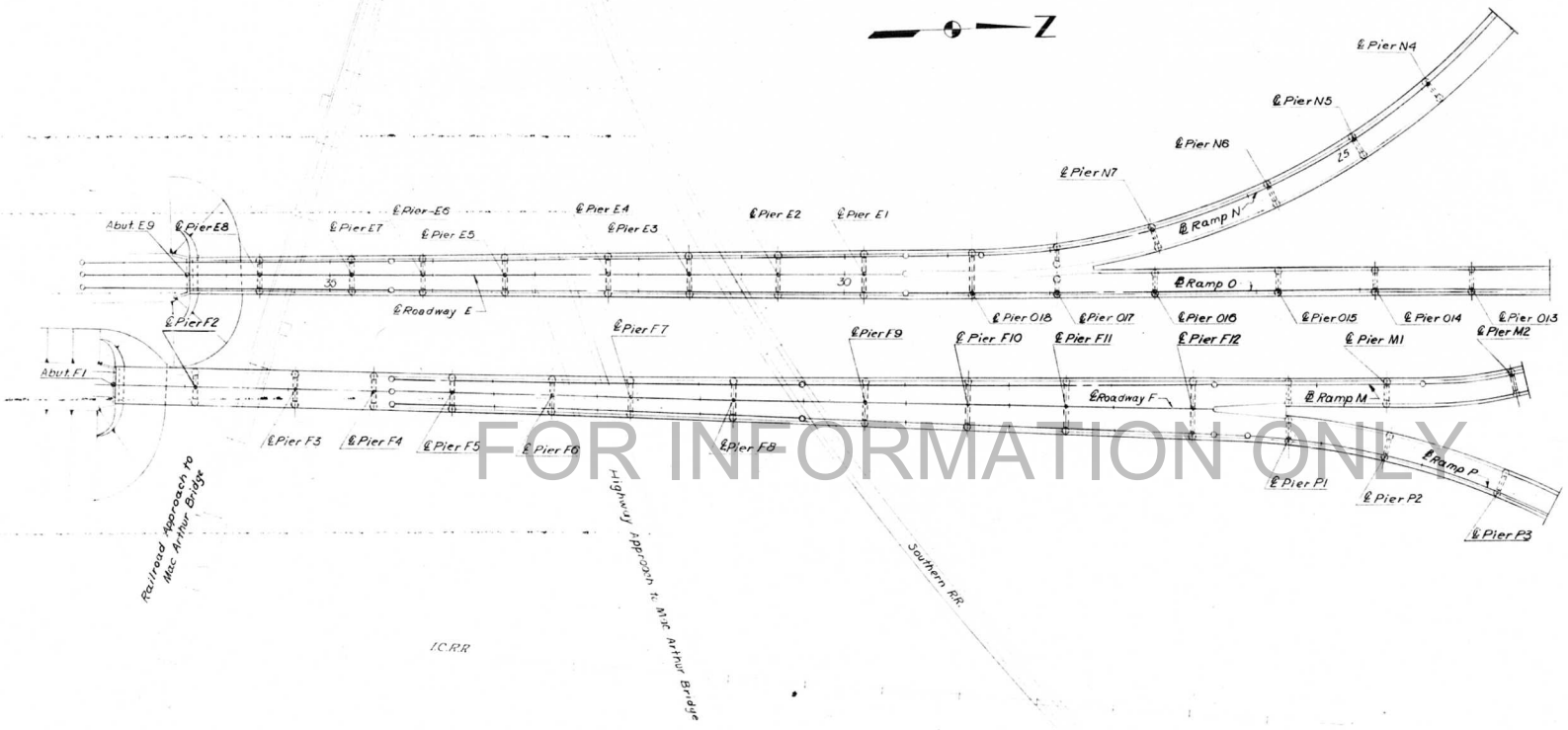
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

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

SHEET 5 OF 24

ED BY EJR
I BY
ED BY EMR
VED BY KA

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I—70	82-3HVB	ST. CLAIR	239	41
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



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

GENERAL PLAN

POPLAR STREET BRIDGE APPROACHES

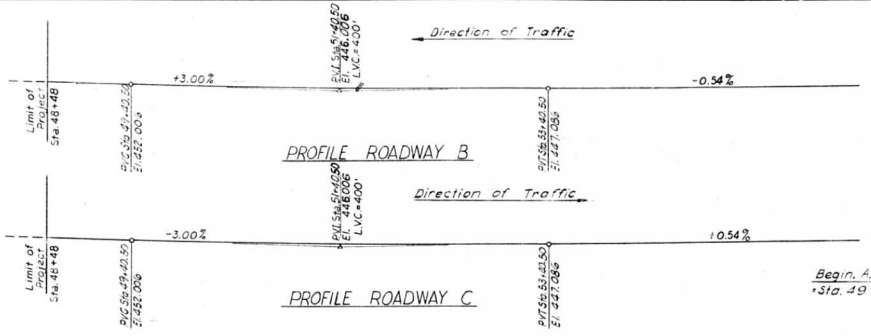
F.A.I RT. 70 ST. CLAIR CO. SECTION 82-3HVB

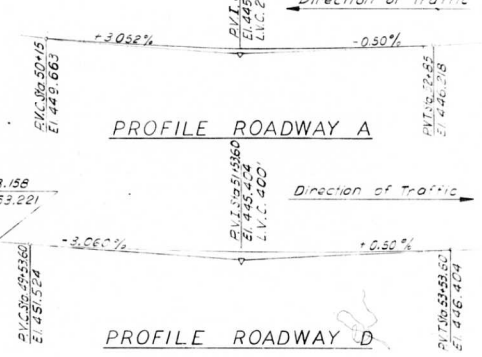
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 6 OF 241

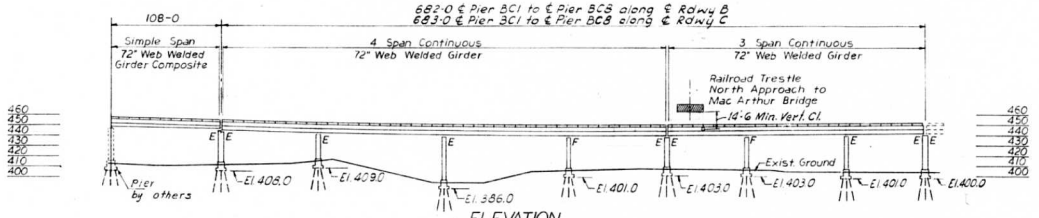
RMR
RMR
KA

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.–70	82–3HVB	ST. CLAIR	289	42
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

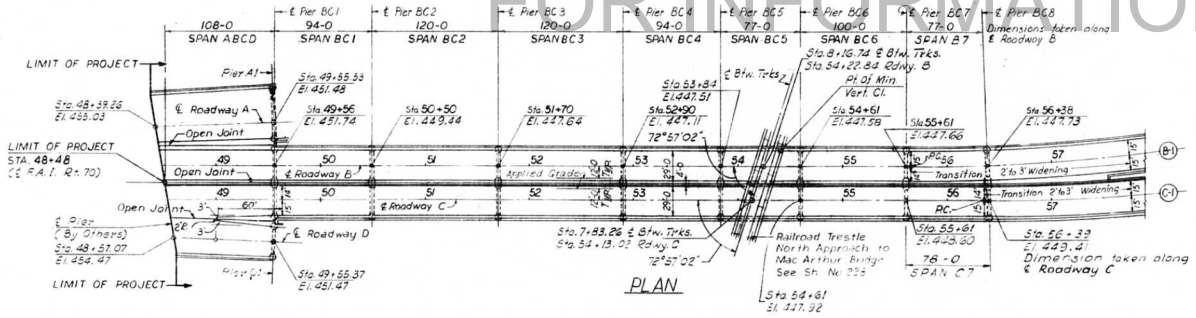




Begin. A.G. 49+00.214 El. 453.158
+Sta. 49 + 00 Rdwy. "D" El. 453.221



ELEVATION



PLAN

Notes:
For Key Plan, General Notes, Bill Of Materials, Bench Mark and Design Stresses See Sh. No. 1.
For Geometric Layout And Curve Data See Sh. No. 16 & 18.

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

PLAN AND ELEVATION

SPAN ABCD, SPANS BC1 THRU BC6, SPAN B7 & SPAN C7

POPLAR STREET BRIDGE APPROACHES
ROADWAYS "A", "B", "C" AND "D"

F.A.I. RT. 70 ST. CLAIR CO. SECTION 82–3HVB

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

SHEET 7 OF 24

DESIGNED BY J.J.N.
CHECKED BY D.C.F.
DRAWN BY A.J.C.
TRACED BY K.A.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	43
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

Direction of Traffic

-0.54%

PVC Sta. 65+93.80
El. 453.854

P.V.I. Sta. 70+93.80
Elev. 456.554
L.V.C. = 1000'

PROFILE ROADWAY B

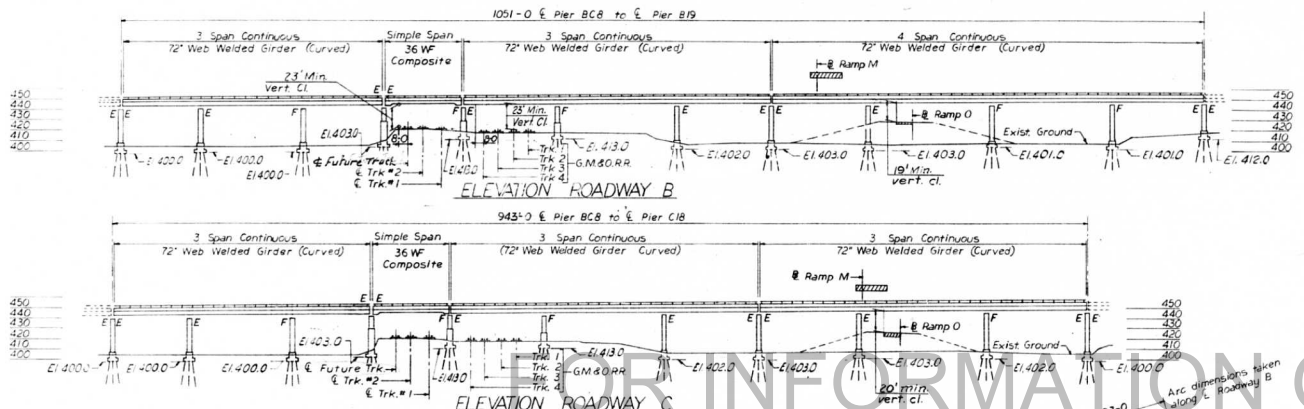
Direction of Traffic

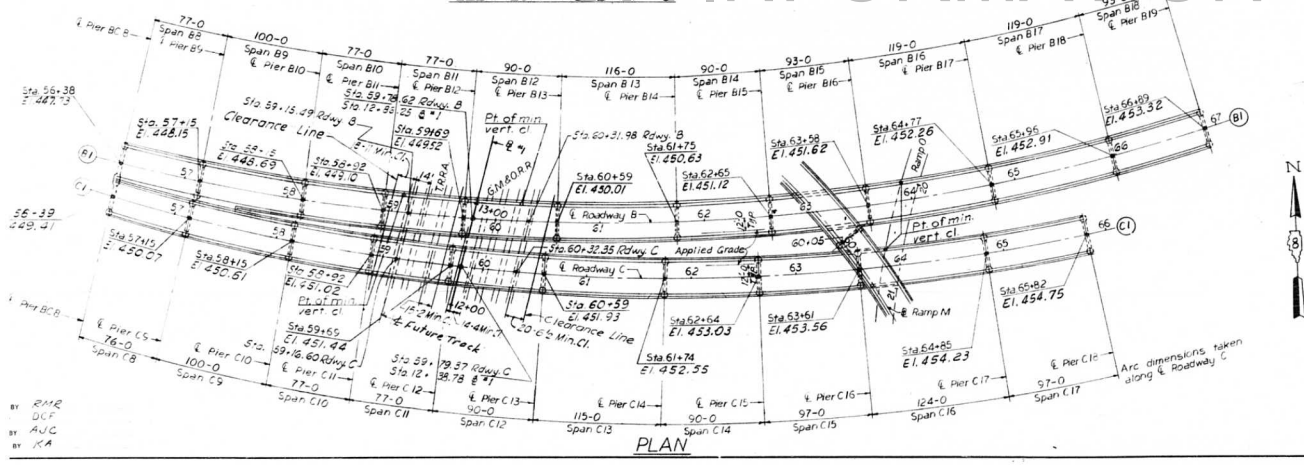
+0.54%

PVC Sta. 65+90.20
El. 453.834

P.V.I. Sta. 70+90.20
Elev. 456.534
L.V.C. = 1000'

PROFILE ROADWAY C





Notes:
For Key Plan, General Notes, Bill Of Materials, Bench Mark And Design Stresses, See Sh. No. 1.
For Geometric Layout And Curve Data See Sh. Nos. 16 & 18.
For Railroad Profiles See Sh. No. 179.

BY RMR
BY DCF
BY AJC
BY KA

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

PLAN AND ELEVATION
SPANS B8 THRU B18 AND C8 THRU C17

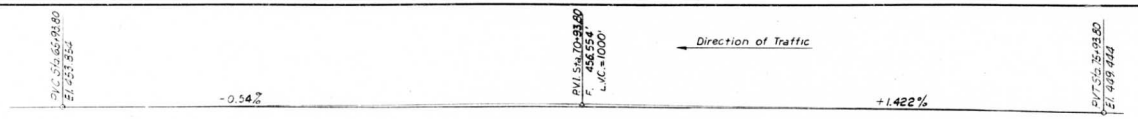
POPLAR STREET BRIDGE APPROACHES
ROADWAYS "B" AND "C"

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

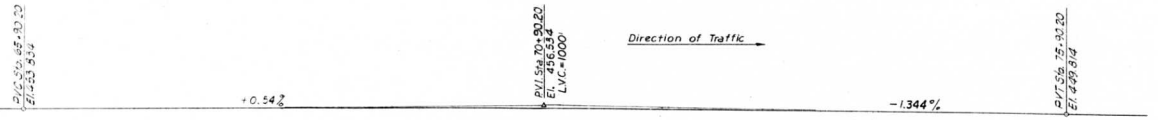
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 8 OF 241

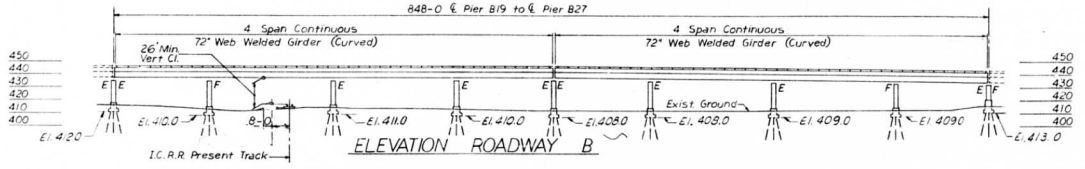
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I-70	82-3HVB	ST. CLAIR	259	44
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



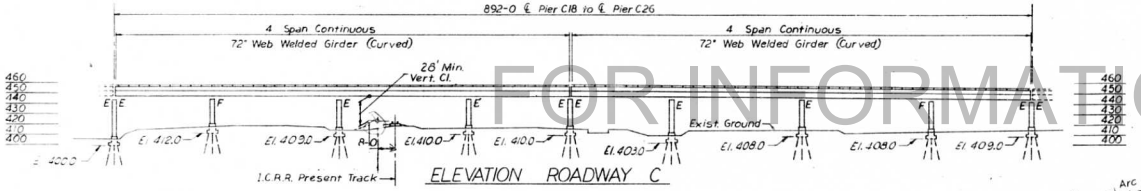
PROFILE ROADWAY B



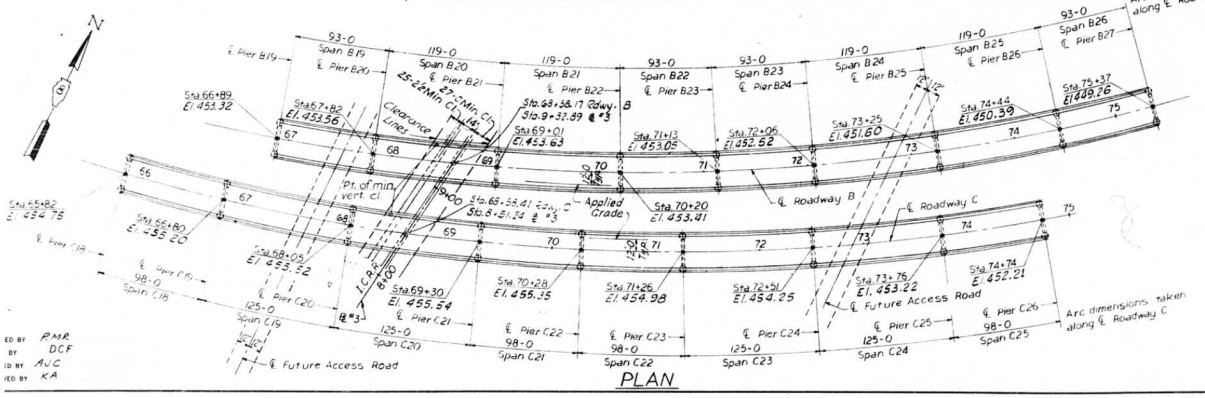
PROFILE ROADWAY C



ELEVATION ROADWAY B



ELEVATION ROADWAY C



PLAN

Notes:
For Key Sheet, General Notes, Bill Of Materials, Bench Mark And Design Stresses See Sh. No 1.
For Geometric Layouts And Curve Data See Sh. Nos 16 Thru 19.
For Railroad Profiles See Sh. Nos. 177 & 178.

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

PLAN AND ELEVATION
SPANS B19 THRU B26 AND C18 THRU C25

POPLAR STREET BRIDGE APPROACHES
ROADWAYS "B" AND "C"

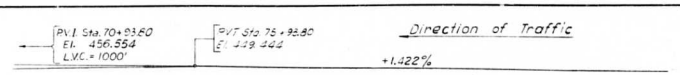
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

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

SHEET 9 of 241

ED BY P.M.R.
BY D.C.F.
D BY A.V.C.
IED BY K.A.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I—70	82—3HVB	ST. CLAIR	289	45
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



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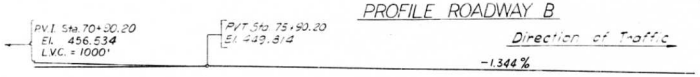
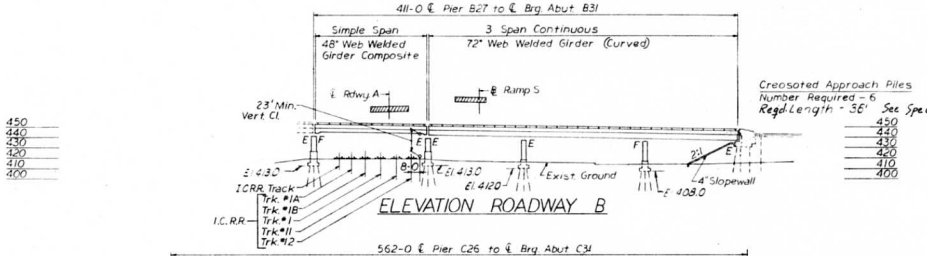
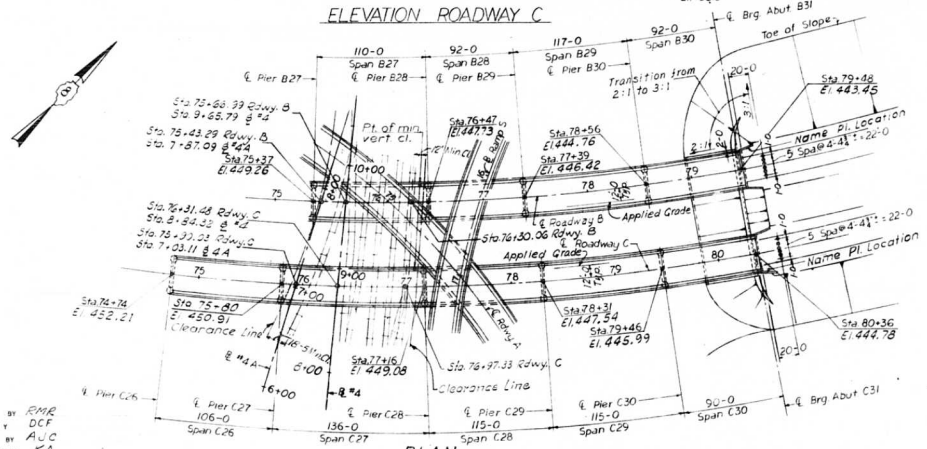
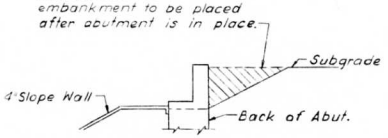


PROFILE ROADWAY C

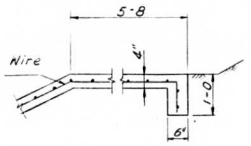




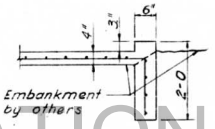
This portion of embankment to be placed after aoutment is in place.



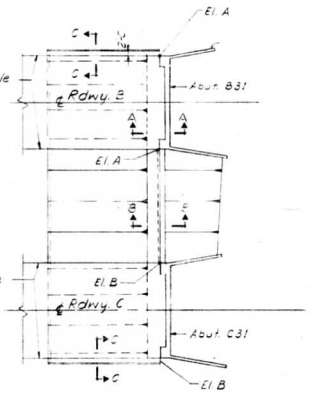
SECTION A-A



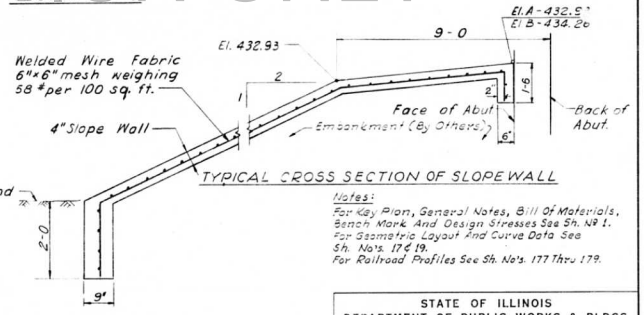
SECTION B-B



SECTION C-C



PLAN OF SLOPEWALL



TYPICAL CROSS SECTION OF SLOPEWALL

Notes:
For Key Plan, General Notes, Bill Of Materials, Bench Mark And Design Stresses See Sh. No 1.
For Geometric Layout And Curve Data See Sh. No's. 17 & 19.
For Railroad Profiles See Sh. No's. 177 Thru 179.

BILL OF MATERIAL

Item	Unit	Quantity
Slope Wall 4"	S.Y.	774
Name Plate	Ea.	2
Class 'A' Excavation For Structures	C.Y.	* 25

* At Slopewall

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

PLAN AND ELEVATION
SPANS B27 THRU B30 AND C26 THRU C30
POPLAR STREET BRIDGE APPROACHES
ROADWAYS "B" AND "C"

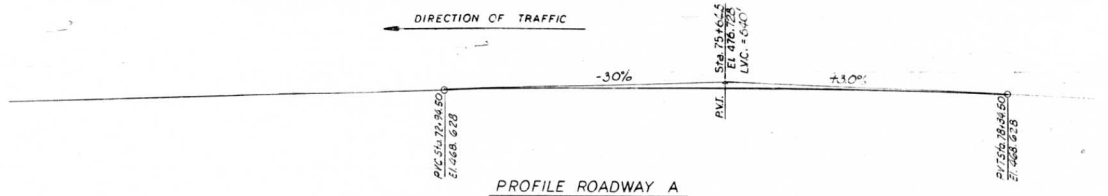
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

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

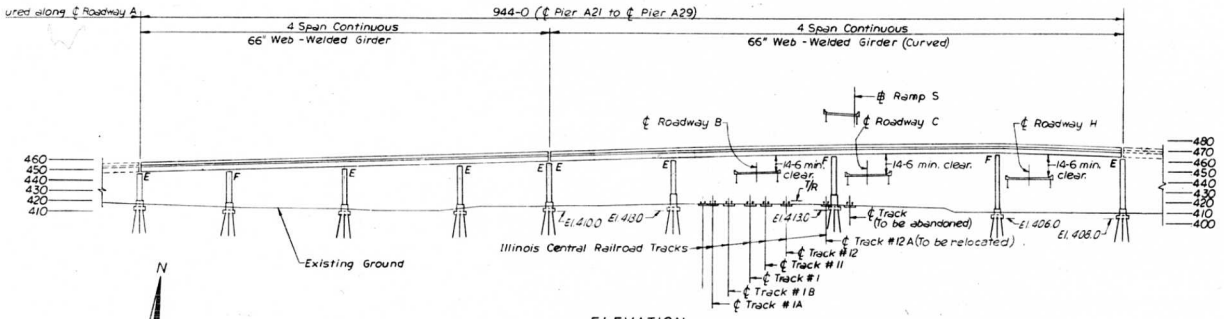
SHEET 10 of 241

BY RMR
Y DCF
BY AJC
BY KA

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I–70	82–3HVB	ST. CLAIR	289	45
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

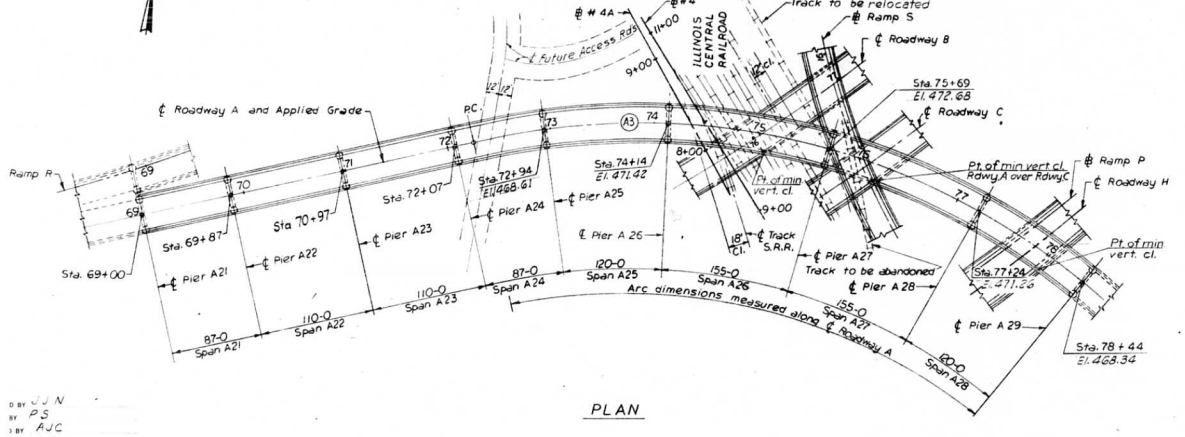


PROFILE ROADWAY A



ELEVATION
DEVELOPED LENGTH ALONG ℄ ROADWAY A

THIS SECTION INCLUDES SPANS A25 THRU A28 ONLY. OTHER DATA SHOWN ON THIS SHEET IS FOR REFERENCE ONLY.



PLAN

Notes:
For Key Plan, General Notes, Bill Of Materials, Bench Mark And Design Stresses See Sht. No. 1.
For Geometric Layout And Curve Data See Sh. No. 20.
For Railroad Profiles See Sh. Nos. 177 thru 179.

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

PLAN AND ELEVATION
SPANS A21 THRU A28
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

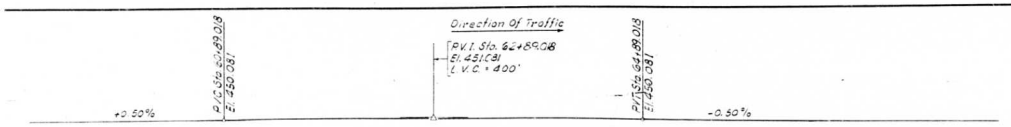
F.A.I. RT. 70 ST. CLAIR C.. SECTION 82-3HVB

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

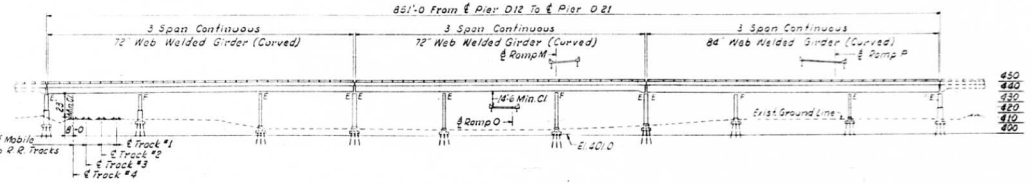
SHEET 11 OF 241

D BY JJN
BY PS
) BY AJC
D BY KA

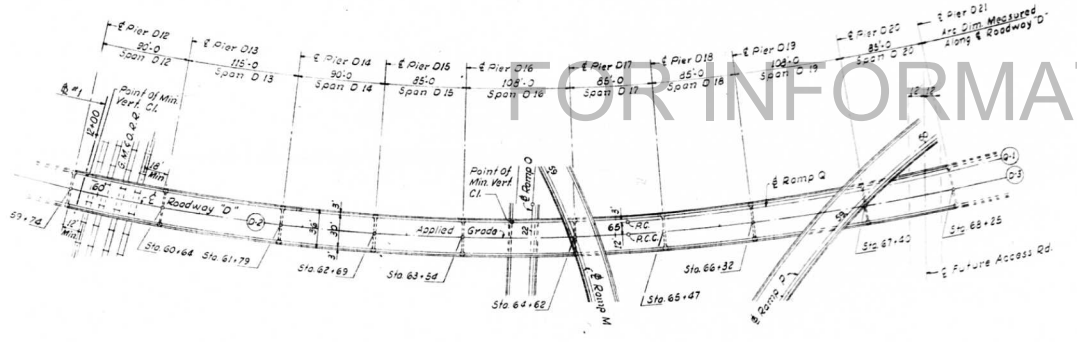
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	12
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



PROFILE ROADWAY "D"



ELEVATION



PLAN

THIS SECTION INCLUDES PIER D17 ONLY.
OTHER DATA SHOWN ON THIS SHEET IS FOR REFERENCE ONLY.

Notes:
For Key Plan, General Notes, & Table Of Material (s), Bench Mark, And Design Stresses See Sh. No. 1.
For Geometric Layout And Curve Data See Sh. No. 8.

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

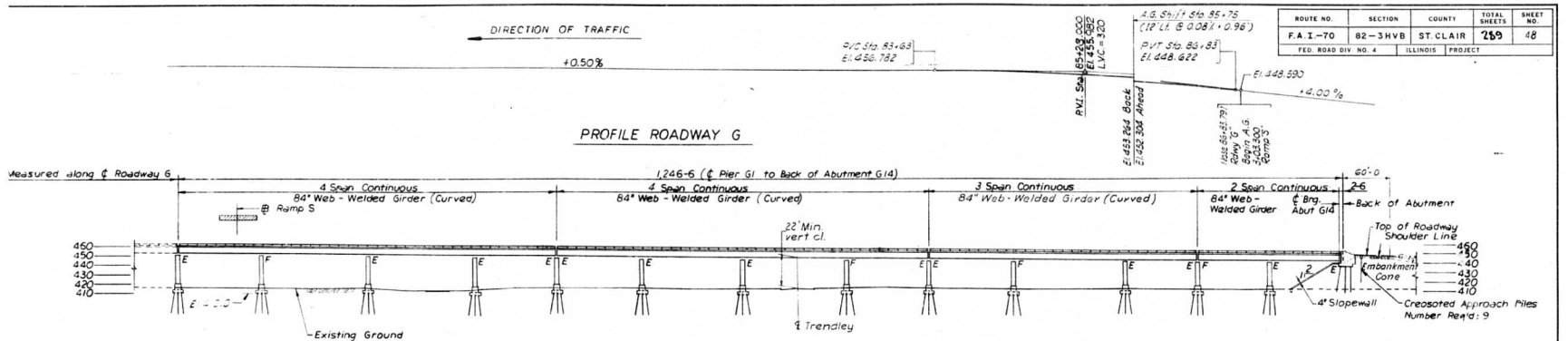
PLAN AND ELEVATION
SPANS D12 THRU D20
POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

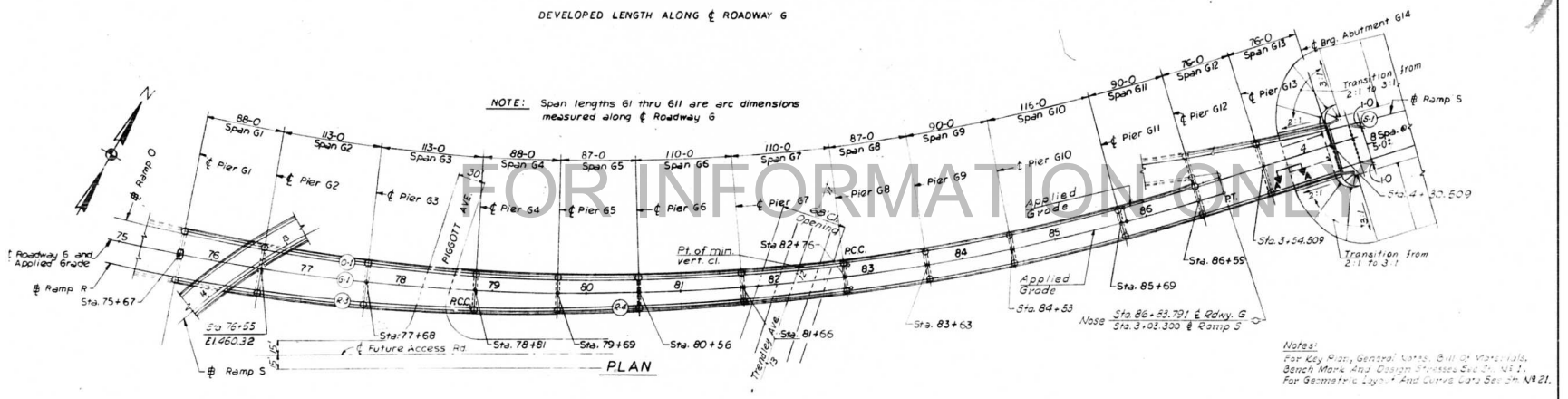
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

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

SHEET 12 OF 14

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	259	48
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		





Notes:
For Key Plan, General Notes, Bill Of Materials, Bench Mark And Design Stresses See Dr. No. 1.
For Geometric Layout And Curve Data See Sh. No. 21.

THIS SECTION INCLUDES PIER G2 ONLY. OTHER DATA SHOWN ON THIS SHEET IS FOR REFERENCE ONLY.

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

PLAN AND ELEVATION
SPANS G1 THRU G13

POPLAR STREET BRIDGE APPROACHES
ROADWAY "G"

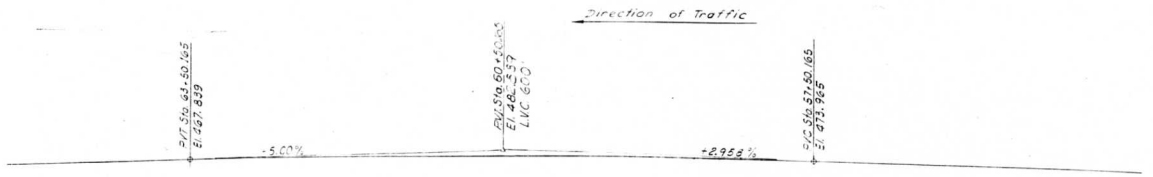
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

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

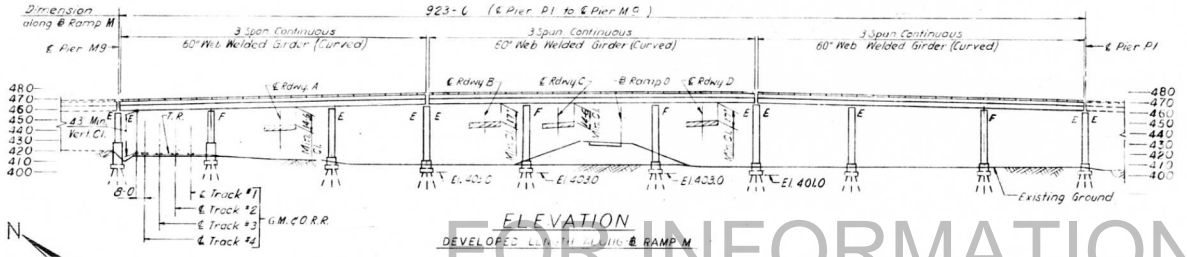
SHEET 13 OF 241

ED BY V.J.N.
BY D.S.
D BY A.J.C.
ED BY F.A.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	49
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



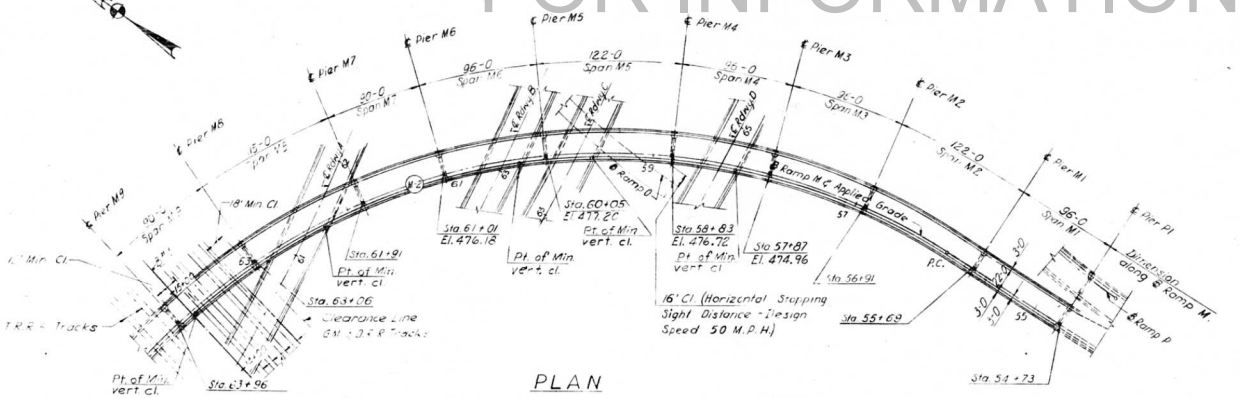
PROFILE RAMP M



ELEVATION

DEVELOPED ALONG ℄ RAMP M

THIS SECTION INCLUDES SPANS M4 THRU M8 ONLY. OTHER DATA SHOWN ON THIS SHEET IS FOR REFERENCE ONLY.



PLAN

Notes

For Key Plan, General Notes, Bill of Materials, Bench Mark and Design Stresses see Sh. No 1.
For Geometric Layout and Curve Data see Sh No. 22.

DESIGNED BY J.J.N
DRAWN BY L.A.M
TRACED BY A.J.C
CHECKED BY K.A.

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

PLAN AND ELEVATION
SPANS M1 THRU M9

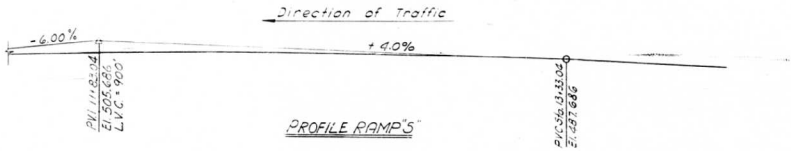
POPLAR STREET BRIDGE APPROACHES
RAMP "M"

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

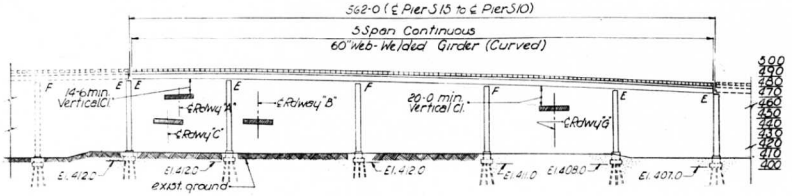
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 14 of 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	269	50
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

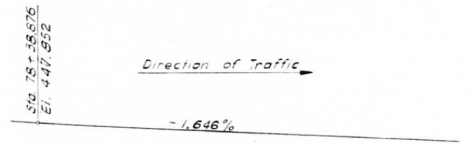


PROFILE RAMP "S"

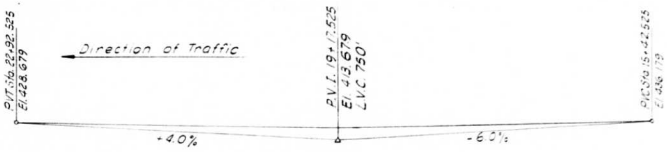


ELEVATION

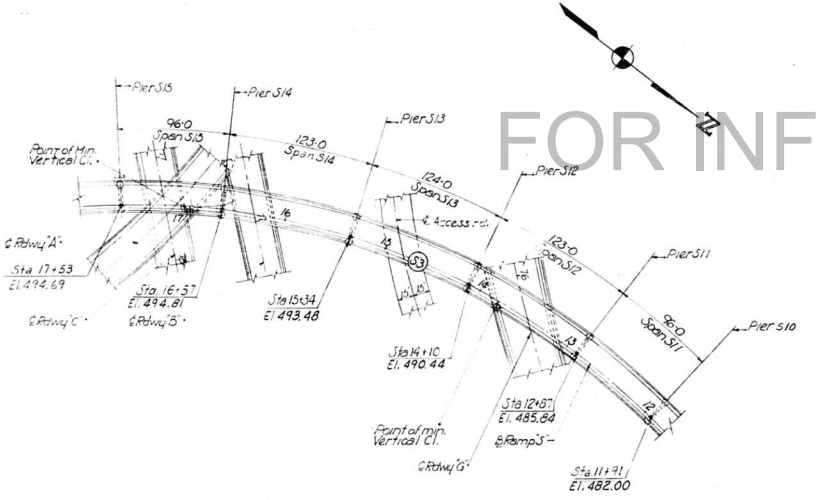
Developed length along ℄ Ramp S



PROFILE RDWY "H"



PROFILE RAMP "O"



PLAN

Notes:

For Key Plan, General Notes, Bill of Materials, Bench Mark and Design Stresses see Sh. No. 1.
For Geometric Layout and Curve Data see Sh. No. 83.

EMR
R.L.
AJC
KA

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

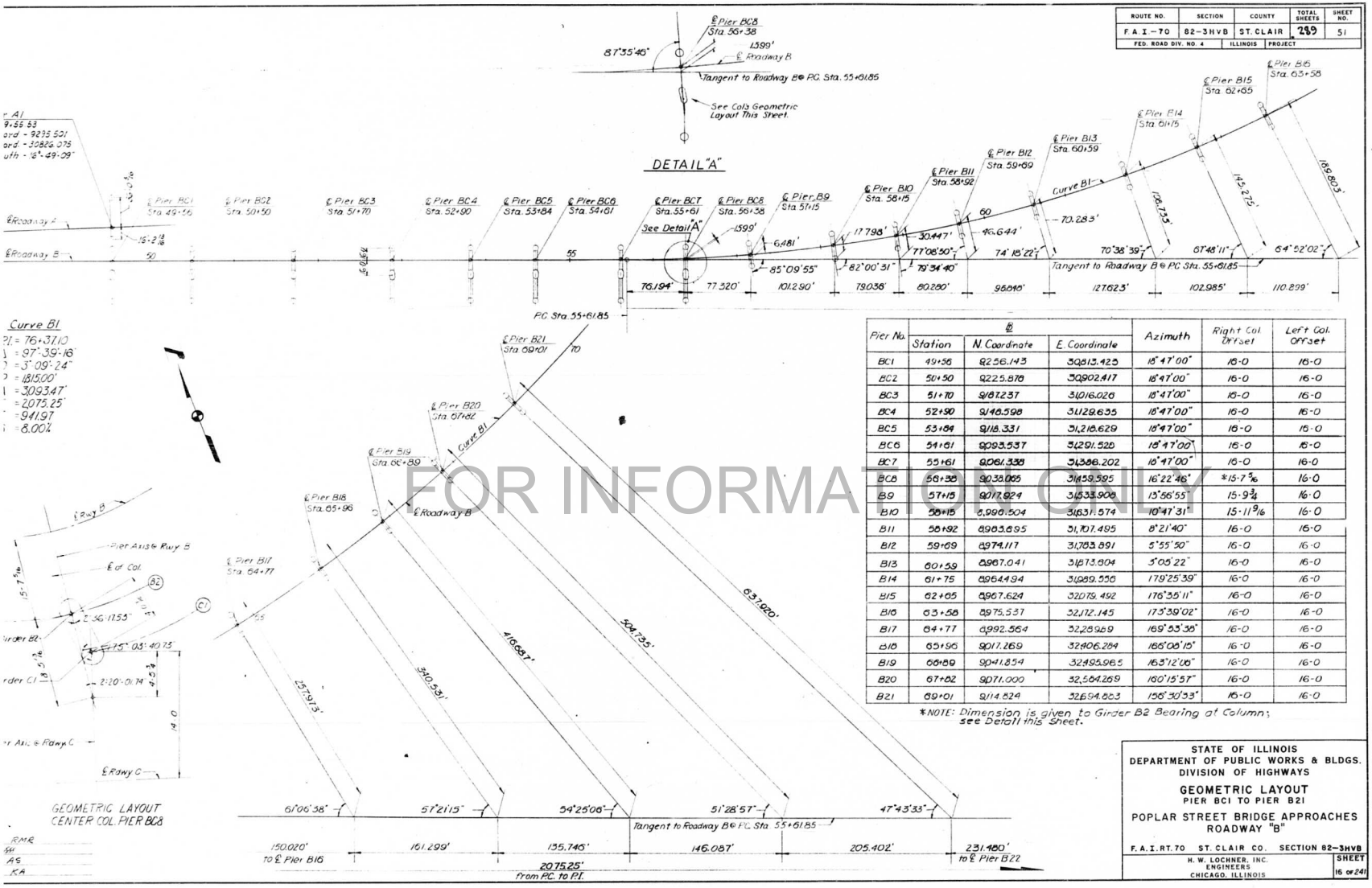
PLAN AND ELEVATION
SPANS S11 THRU S15
POPLAR STREET BRIDGE APPROACHES
RAMP "S"

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

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

SHEET 15 of 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I-70	82-3HVB	ST. CLAIR	289	51
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	



Curve B1
P.I. = 76+37.10
Δ = 97°39'16"
D = 3°09'24"
R = 1815.00'
L = 3093.47'
T = 2075.25'
E = 941.97'
M = 8.00'

Pier No.	℄ Station	℄ N. Coordinate	℄ E. Coordinate	Azimuth	Right Col. Offset	Left Col. Offset
BC1	49+56	9256.143	30,813.425	18°47'00"	16-0	16-0
BC2	50+50	9225.878	30,902.417	18°47'00"	16-0	16-0
BC3	51+70	9187.237	31,016.026	18°47'00"	16-0	16-0
BC4	52+90	9148.598	31,129.635	18°47'00"	16-0	16-0
BC5	53+84	9118.331	31,216.629	18°47'00"	16-0	16-0
BC6	54+61	9093.537	31,291.525	18°47'00"	16-0	16-0
BC7	55+61	9061.338	31,386.202	18°47'00"	16-0	16-0
BC8	56+38	9035.065	31,459.595	16°22'46"	*15-7 5/16	16-0
B9	57+15	9017.924	31,533.906	13°56'55"	15-9 3/4	16-0
B10	58+15	8,996.504	31,631.574	10°47'31"	15-11 9/16	16-0
B11	58+92	8983.895	31,707.495	8°21'40"	16-0	16-0
B12	59+69	8974.117	31,783.891	5°55'50"	16-0	16-0
B13	60+59	8967.041	31,873.804	5°05'22"	16-0	16-0
B14	61+75	8964.494	31,989.556	179°25'39"	16-0	16-0
B15	62+65	8967.624	32,079.492	176°35'11"	16-0	16-0
B16	63+58	8975.537	32,172.145	173°39'02"	16-0	16-0
B17	64+71	8992.564	32,285.69	169°53'36"	16-0	16-0
B18	65+96	9017.269	32,406.284	166°08'15"	16-0	16-0
B19	66+89	9041.854	32,495.965	163°12'06"	16-0	16-0
B20	67+82	9071.000	32,584.269	160°15'57"	16-0	16-0
B21	69+01	9114.824	32,694.863	156°30'33"	16-0	16-0

*NOTE: Dimension is given to Girder B2 Bearing at Column; see Detail this Sheet.

GEOMETRIC LAYOUT
CENTER COL. PIER BC8

RMR
SM
AS
KA

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

GEOMETRIC LAYOUT
PIER BC1 TO PIER B21

POPLAR STREET BRIDGE APPROACHES
ROADWAY "B"

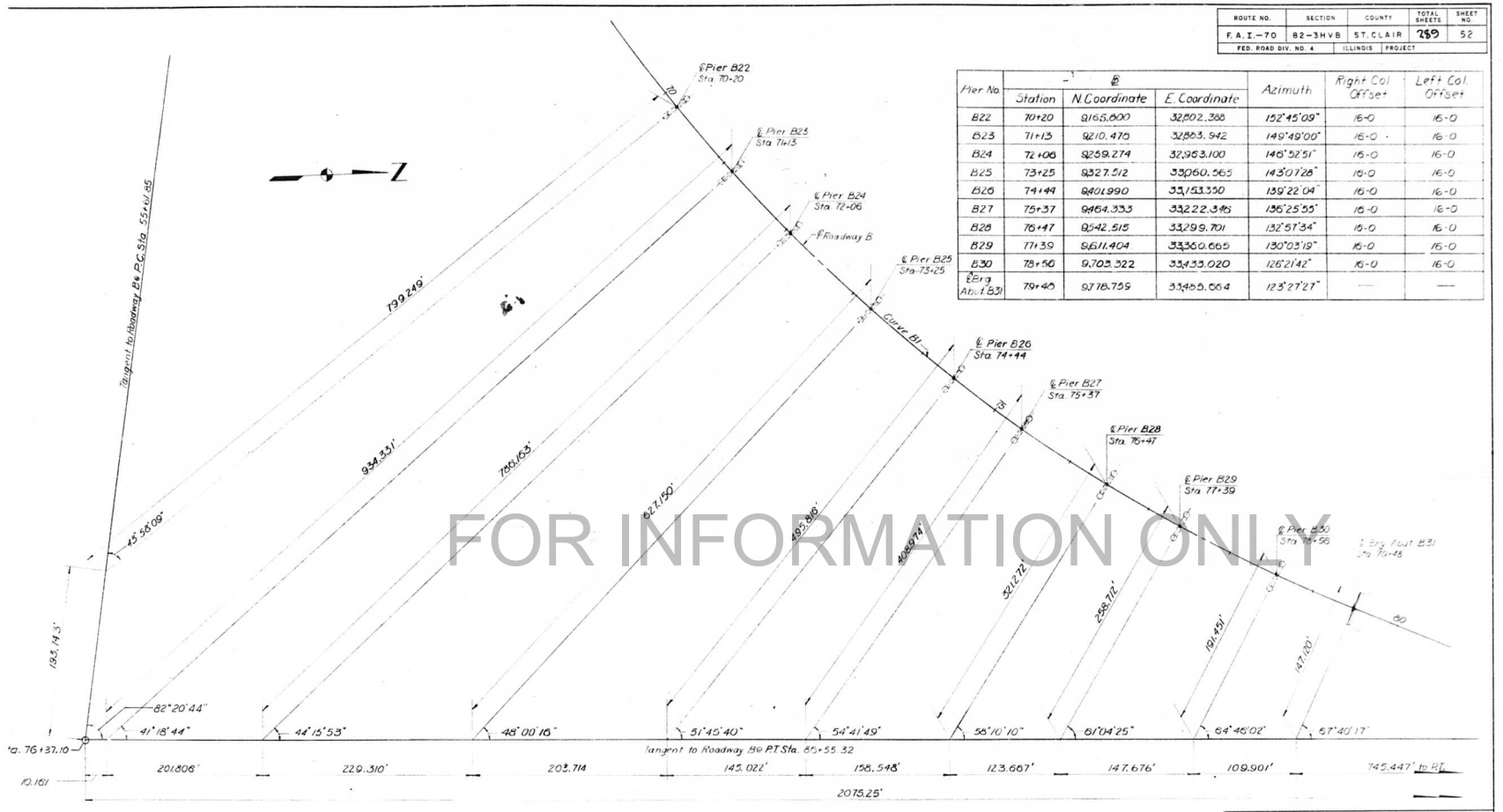
F.A.I.RT.70 ST. CLAIR CO. SECTION 82-3HVB

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

SHEET 16 OF 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	52
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

Pier No.	℄ Station	℄ N. Coordinate	℄ E. Coordinate	Azimuth	Right Col. Offset	Left Col. Offset
B22	70+20	9165.600	32802.388	152°45'09"	16-0	16-0
B23	71+13	9210.475	32863.942	149°49'00"	16-0	16-0
B24	72+06	9259.274	32,953.100	146°52'51"	16-0	16-0
B25	73+25	9327.512	33060.565	143°07'28"	16-0	16-0
B26	74+44	9401.990	33153.350	139°22'04"	16-0	16-0
B27	75+37	9464.333	33222.346	136°25'55"	16-0	16-0
B28	76+47	9542.515	33299.701	132°57'34"	16-0	16-0
B29	77+39	9611.404	33360.665	130°03'19"	16-0	16-0
B30	78+56	9703.322	33435.020	126°21'42"	16-0	16-0
℄ Brg. Abut. B31	79+45	9778.759	33485.664	123°27'27"	—	—



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

GEOMETRIC LAYOUT

PIER B22 TO ABUTMENT B31

POPLAR STREET BRIDGE APPROACHES
ROADWAY "B"

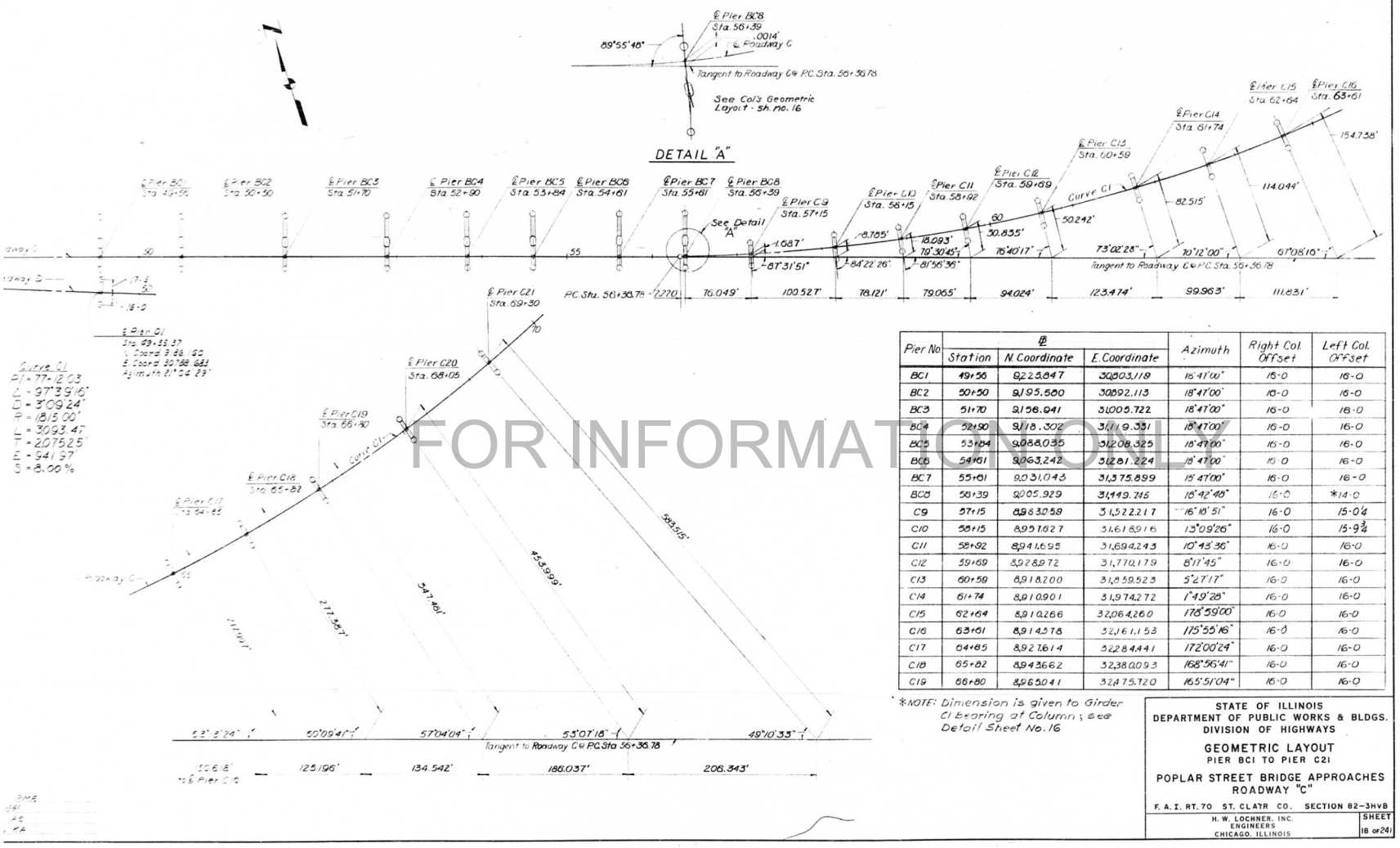
F.A.I. RT 70 ST. CLAIR CO SECTION 82-3HVB

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

SHEET 17 OF 241

RMR
91
45
KA

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I.–70	82–3HVB	ST. CLAIR	289	53
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



Pier No	℄ Station	℄ N. Coordinate	℄ E. Coordinate	Azimuth	Right Col. Offset	Left Col. Offset
BC1	49+56	9,225,847	30,803,118	16°41'00"	16-0	16-0
BC2	50+50	9,195,560	30,892,113	18°47'00"	16-0	16-0
BC3	51+70	9,156,941	31,005,722	18°47'00"	16-0	16-0
BC4	52+90	9,118,302	31,119,331	18°47'00"	16-0	16-0
BC5	53+84	9,088,035	31,208,325	18°47'00"	16-0	16-0
BC6	54+81	9,063,242	31,281,224	18°47'00"	16-0	16-0
BC7	55+81	9,031,043	31,375,899	18°47'00"	16-0	16-0
BC8	56+39	9,005,929	31,449,745	18°42'49"	16-0	*14-0
C9	57+15	8,983,058	31,522,217	16°18'51"	16-0	15-0¼
C10	58+15	8,951,627	31,618,916	13°09'26"	16-0	15-9¾
C11	58+92	8,941,695	31,694,243	10°43'36"	16-0	16-0
C12	59+69	8,928,972	31,770,179	8°17'45"	16-0	16-0
C13	60+59	8,918,200	31,859,523	5°27'17"	16-0	16-0
C14	61+74	8,910,901	31,974,272	1°49'28"	16-0	16-0
C15	62+64	8,910,266	32,064,260	178°59'00"	16-0	16-0
C16	63+61	8,914,578	32,161,153	175°55'16"	16-0	16-0
C17	64+85	8,921,614	32,284,441	172°00'24"	16-0	16-0
C18	65+82	8,943,662	32,380,093	168°56'41"	16-0	16-0
C19	66+80	8,965,041	32,475,720	165°51'04"	16-0	16-0

*NOTE: Dimension is given to Girder C1 Bearing at Column; see Detail Sheet No. 16

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

GEOMETRIC LAYOUT
PIER BC1 TO PIER C21

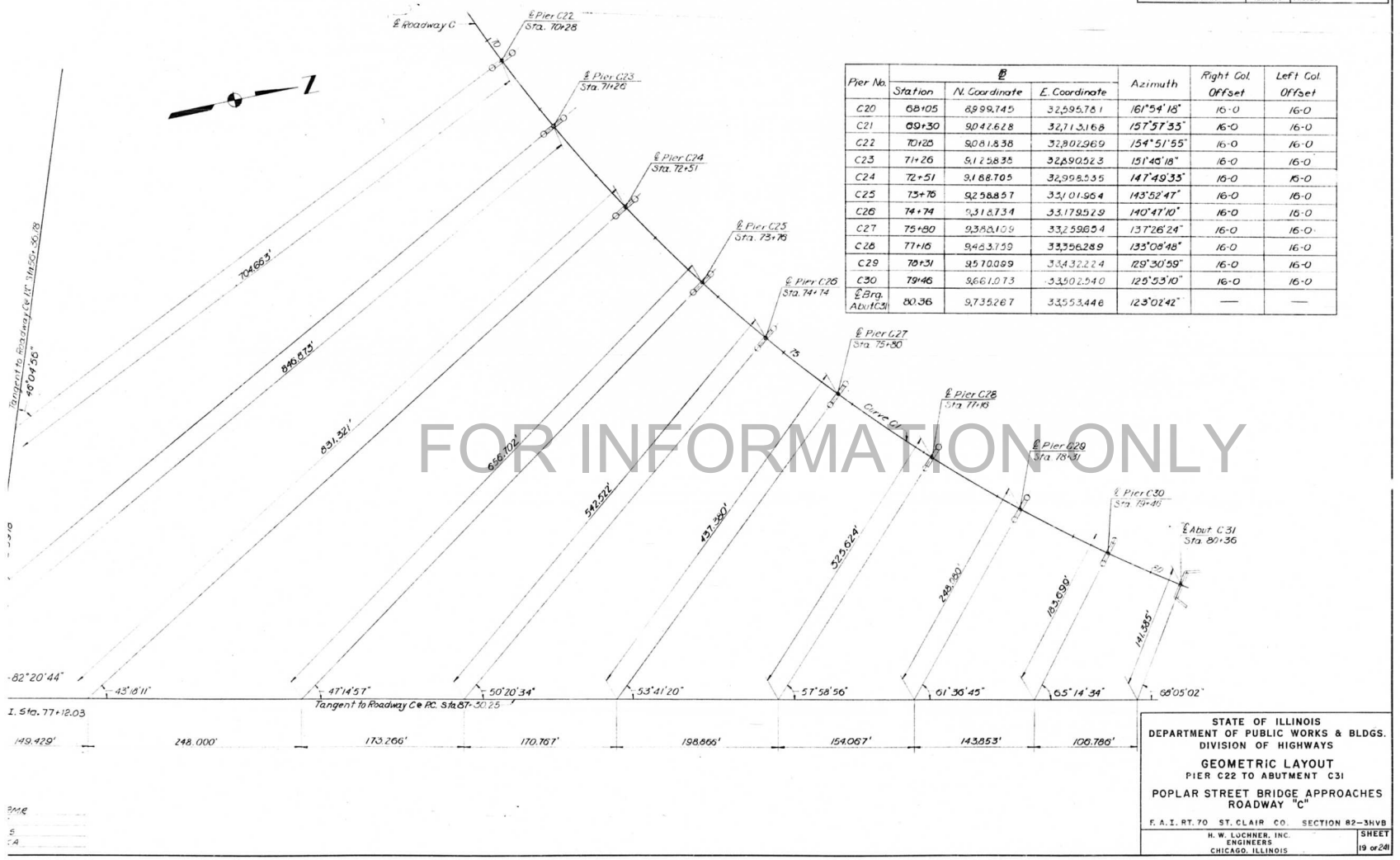
POPLAR STREET BRIDGE APPROACHES
ROADWAY "C"

F. A. I. RT. 70 ST. CLAIR CO. SECTION 82–3HVB

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

SHEET 18 OF 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.–70	82–3HVB	ST. CLAIR	289	54
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



Pier No.	℄ Station	℄ N. Coordinate	℄ E. Coordinate	Azimuth	Right Col. Offset	Left Col. Offset
C20	68+05	8,999,745	32,595,781	161°54'18"	16-0	16-0
C21	69+30	9,042,628	32,713,168	157°57'35"	16-0	16-0
C22	70+28	9,081,838	32,802,969	154°51'55"	16-0	16-0
C23	71+26	9,125,838	32,890,523	151°46'18"	16-0	16-0
C24	72+51	9,188,705	32,998,535	147°49'35"	16-0	16-0
C25	73+76	9,258,857	33,101,964	143°52'47"	16-0	16-0
C26	74+74	9,318,734	33,179,529	140°47'10"	16-0	16-0
C27	75+80	9,380,109	33,259,854	137°26'24"	16-0	16-0
C28	77+16	9,463,759	33,356,289	135°08'48"	16-0	16-0
C29	78+31	9,570,089	33,432,224	129°30'59"	16-0	16-0
C30	79+46	9,661,073	33,502,540	125°53'10"	16-0	16-0
℄ Brg. Abut C31	80.36	9,735,267	33,553,446	123°02'42"	—	—

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

GEOMETRIC LAYOUT
PIER C22 TO ABUTMENT C31

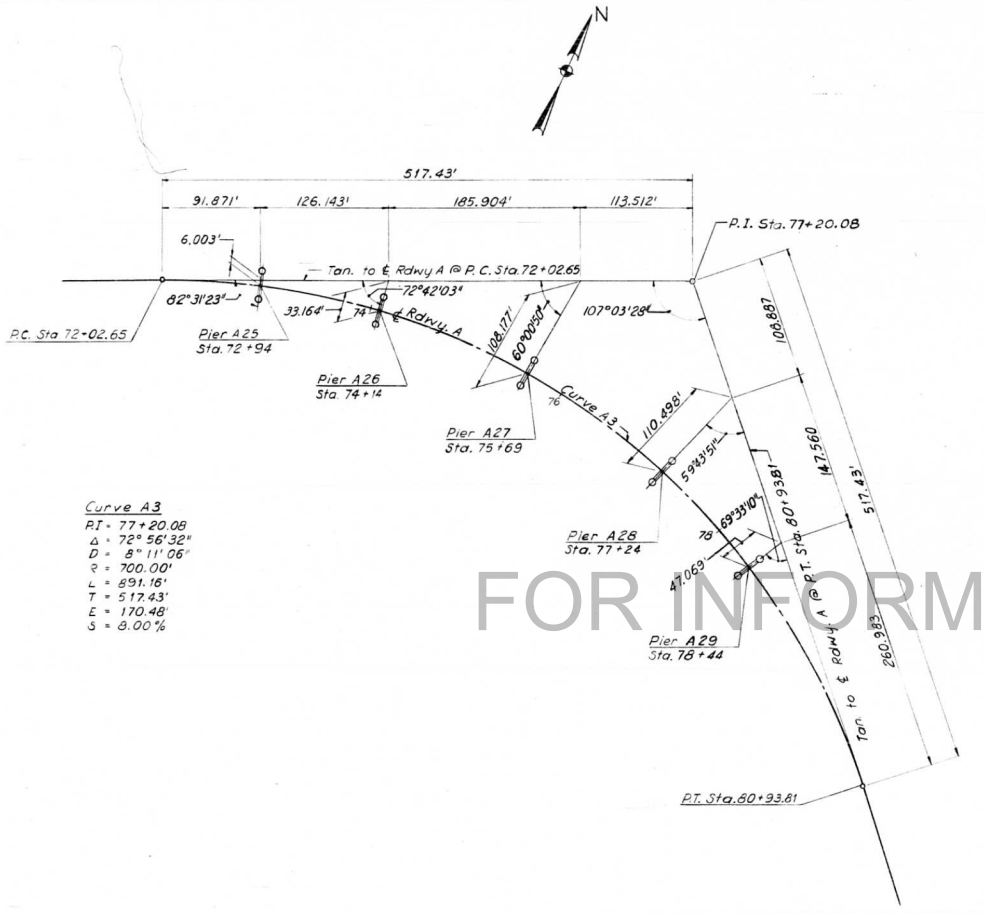
POPLAR STREET BRIDGE APPROACHES
ROADWAY "C"

F. A. I. RT. 70 ST. CLAIR CO. SECTION 82–3HVB

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

SHEET 19 OF 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	5
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



Curve A3
P.I. = 77+20.08
Δ = 72° 56'32"
D = 8° 11'06"
R = 700.00'
L = 891.16'
T = 517.43'
E = 170.48'
S = 8.00%

Pier No.	℄ Sta.	N Coordinate	E. Coordinate	Azimuth	Right Col offset	Left Col offset
A25	72+94	9482.117	33067.878	161°59'34"	16'-0	16'-0
A26	74+14	9509.274	33184.614	171°48'54"	16'-0	16'-0
A27	75+69	9514.244	33339.218	4°30'07"	16'-0	16'-0
A28	77+24	9485.140	33491.138	17° 11'20"	16'-0	16'-0
A29	78+44	9440.048	33602.186	27° 00'39"	16'-0	16'-0

DRAWN BY RMR
CHECKED BY I.M.
APPROVED BY AS
TRACED BY KA

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

GEOMETRIC LAYOUT
PIER A25 TO PIER A29

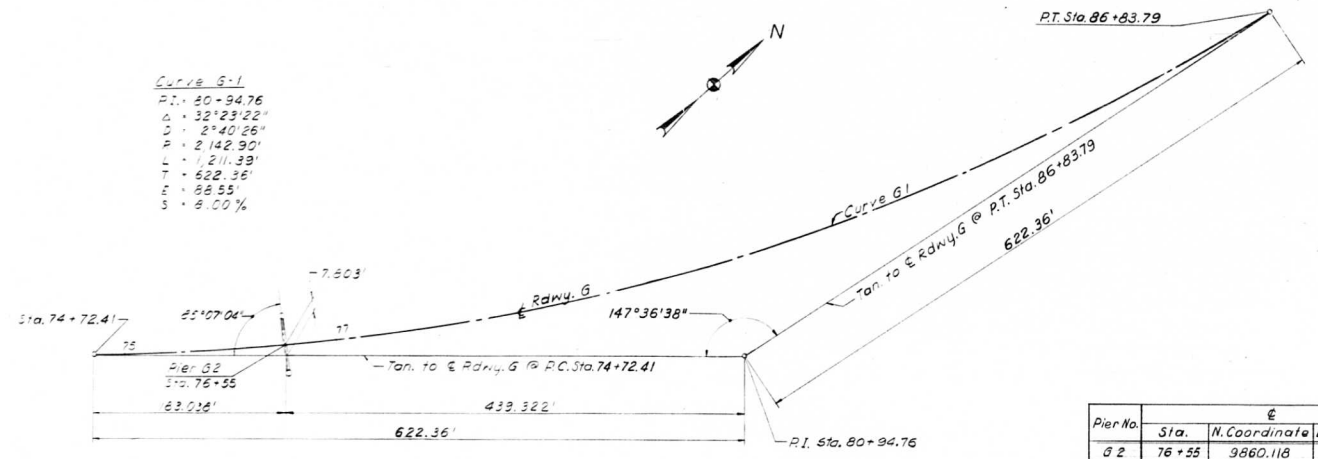
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

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

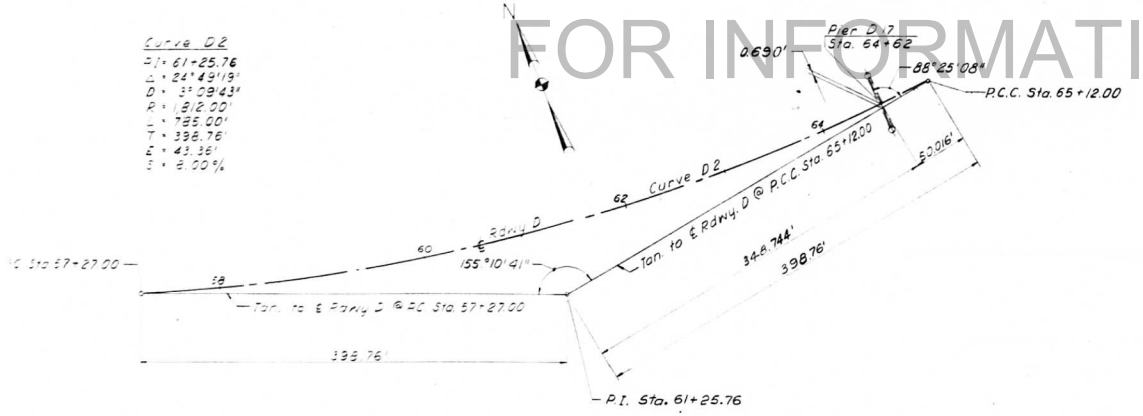
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 20 of 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I.—70	82-3HVB	ST. CLAIR	289	56
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



Pier No.	℄ Sta.	N. Coordinate	E. Coordinate	Azimuth	Right Col. offset	Left Col. offset
G 2	76+55	9860.118	33259.962	128°38'10"	26.399'	23.196'
D17	64+62	8788.788	32228.757	177°50'02"	16-0	16-0



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

GEOMETRIC LAYOUT
PIER D17 AND PIER G2

POPLAR STREET BRIDGE APPROACHES
ROADWAYS "G" AND "D"

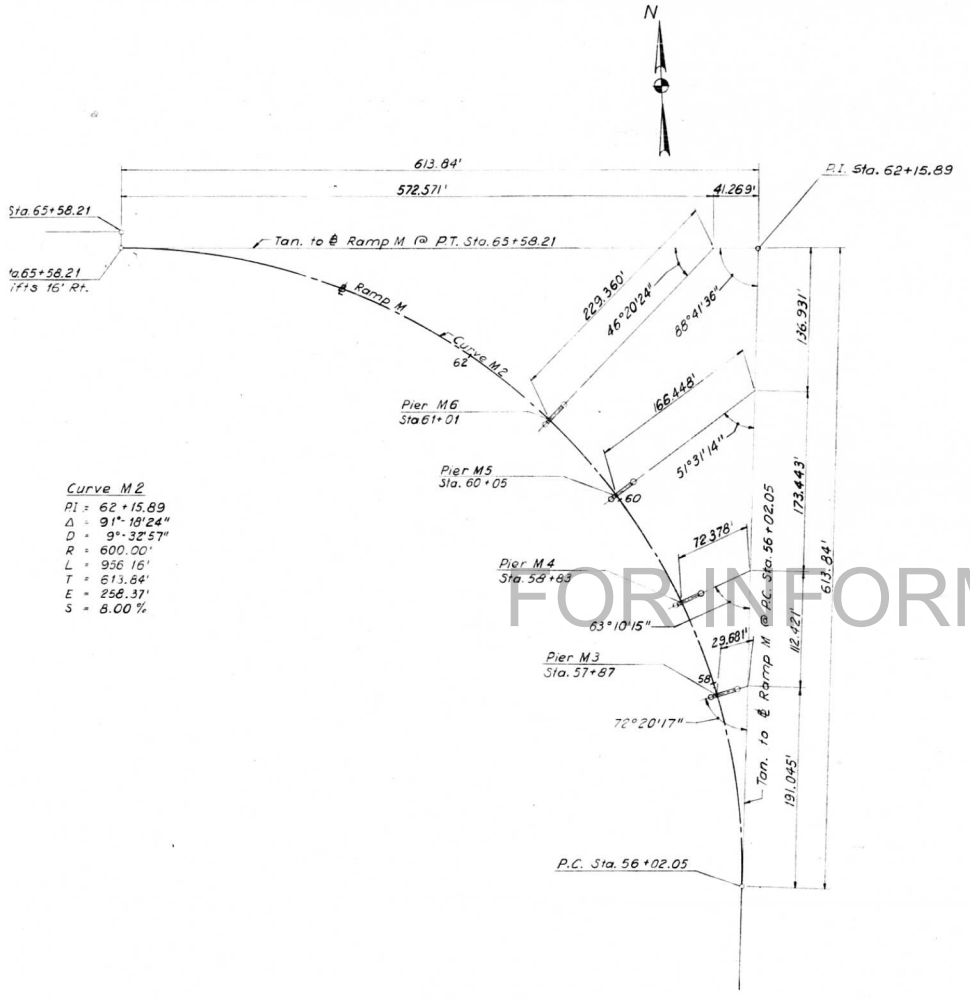
F. A. I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

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

SHEET 21 OF 241

EMB
J.M.
PS
CA

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.–70	82–3HVB	ST. CLAIR	269	57
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



Curve M2
PI = 62+15.89
Δ = 91°-18'24"
D = 9°-32'57"
R = 600.00'
L = 956.16'
T = 613.84'
E = 258.37'
S = 8.00%

Pier No.	℄ Sta.	℄ N. Coordinate	℄ E. Coordinate	Azimuth	Right Col. offset	Left Col. offset
M3	57+87	8744.002	32239.955	74°38'31"	20-0	4-0
M4	58+83	8834.150	32207.248	65°28'29"	20-0	4-0
M5	60+05	8939.249	32145.709	53°49'28"	20-0	4-0
M6	61+01	9011.887	32083.100	44°39'26"	20-0	4-0

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

GEOMETRIC LAYOUT

PIER M3 TO PIER M6

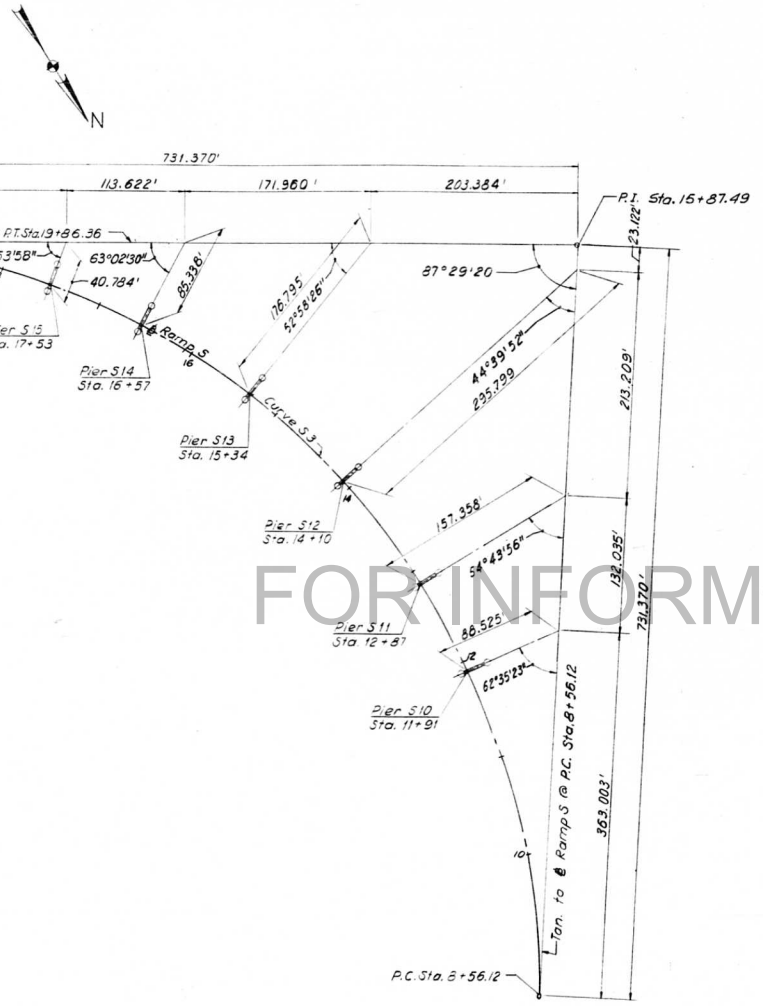
POPLAR STREET BRIDGE APPROACHES
RAMP "M"

F.A.I.RT.70 ST. CLAIR CO. SECTION 82–3HVB

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

SHEET 22 of 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I – 70	82-3HVB	ST. CLAIR	289	58
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



Curve S3
P.I. = 15+87.49
Δ = 92°30'40"
D = 8°11'06"
R = 700.00'
L = 1130.24'
= 731.37'
E = 312.38'
S = 8.00%

Pier No.	℄ Sta.	N. Coordinate	E. Coordinate	Azimuth	Right Col. offset	Left Col. offset
S10	11+91	10000.657	33258.456	97°28'20"	20-0	4-0
S11	12+87	9904.916	33252.527	89°36'53"	20-0	4-0
S12	14+10	9782.623	33264.128	79°32'49"	20-0	4-0
S13	15+34	9663.305	33297.281	69°23'51"	20-0	4-0
S14	16+57	9552.556	33350.429	59°19'47"	20-0	4-0
S15	17+53	9473.596	33404.898	51°28'19"	20-0	4-0

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

GEOMETRIC LAYOUT
PIER S10 TO PIER S15

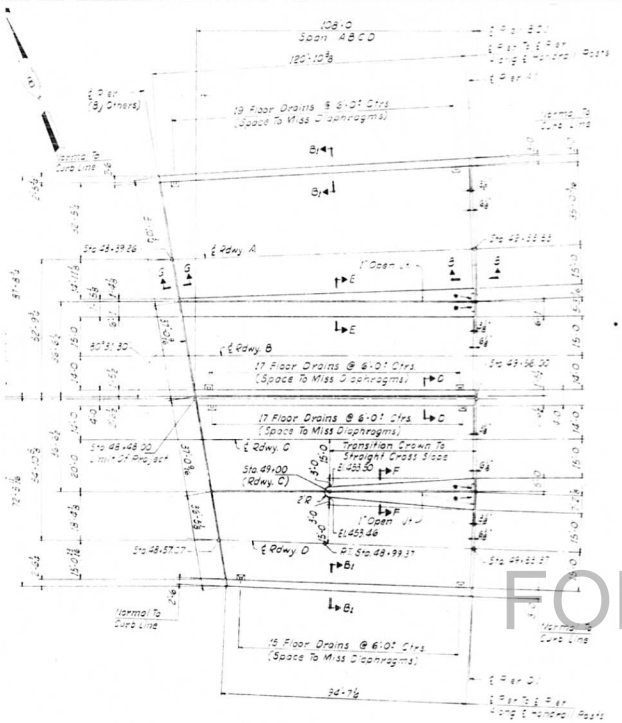
POPLAR STREET BRIDGE APPROACHES
RAMP "S"

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

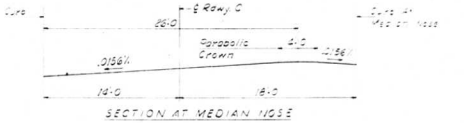
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 23 OF 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I-70	82-3HVB	ST. CLAIR	289	59
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



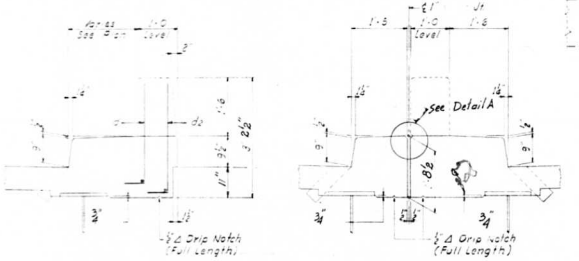
DIMENSION PLAN
SPAN ABCD



SECTION AT MEDIAN NOSE

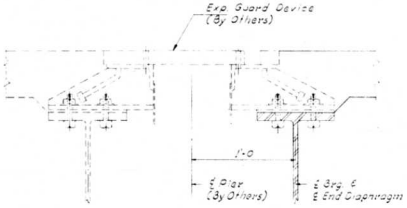
SECTION AT PIER 01

RDWY. C CROSS SLOPE TRANSITION

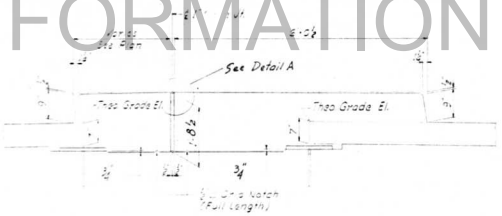


SECTION B1-B1

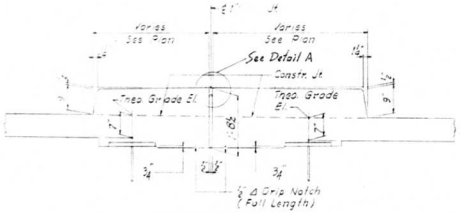
SECTION D-D



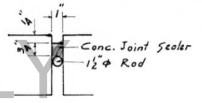
SECTION G-G



SECTION E-E



SECTION F-F



DETAIL A

For Conc. Joint Sealer and 1½" ϕ Rod See Special Provisions.
The joints must be covered with a masking tape before the application of the protective coat on the bridge deck to prevent the spray from filming the vertical faces. The concrete joint sealant shall be applied only when the ambient temperature is 68°F. and rising.

Notes:
For Notes on Jt. Mtrls. Details See Sht. No. 54.
For Reinforcement Of Slab See Sht. No. 25.
For Parapet Reinf. & Joint Spacing See Sht. No. 45.
For Section B1-B See Sht. No. 131.
For Dead Load Deflection Diagram See Sht. No. 84.
For Optional Horizontal Joint Details See Sht. No. 54.

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

SLAB
SPAN ABCD — DIMENSIONS
POPLAR STREET BRIDGE APPROACHES
ROADWAYS "A" "B" "C" AND "D"

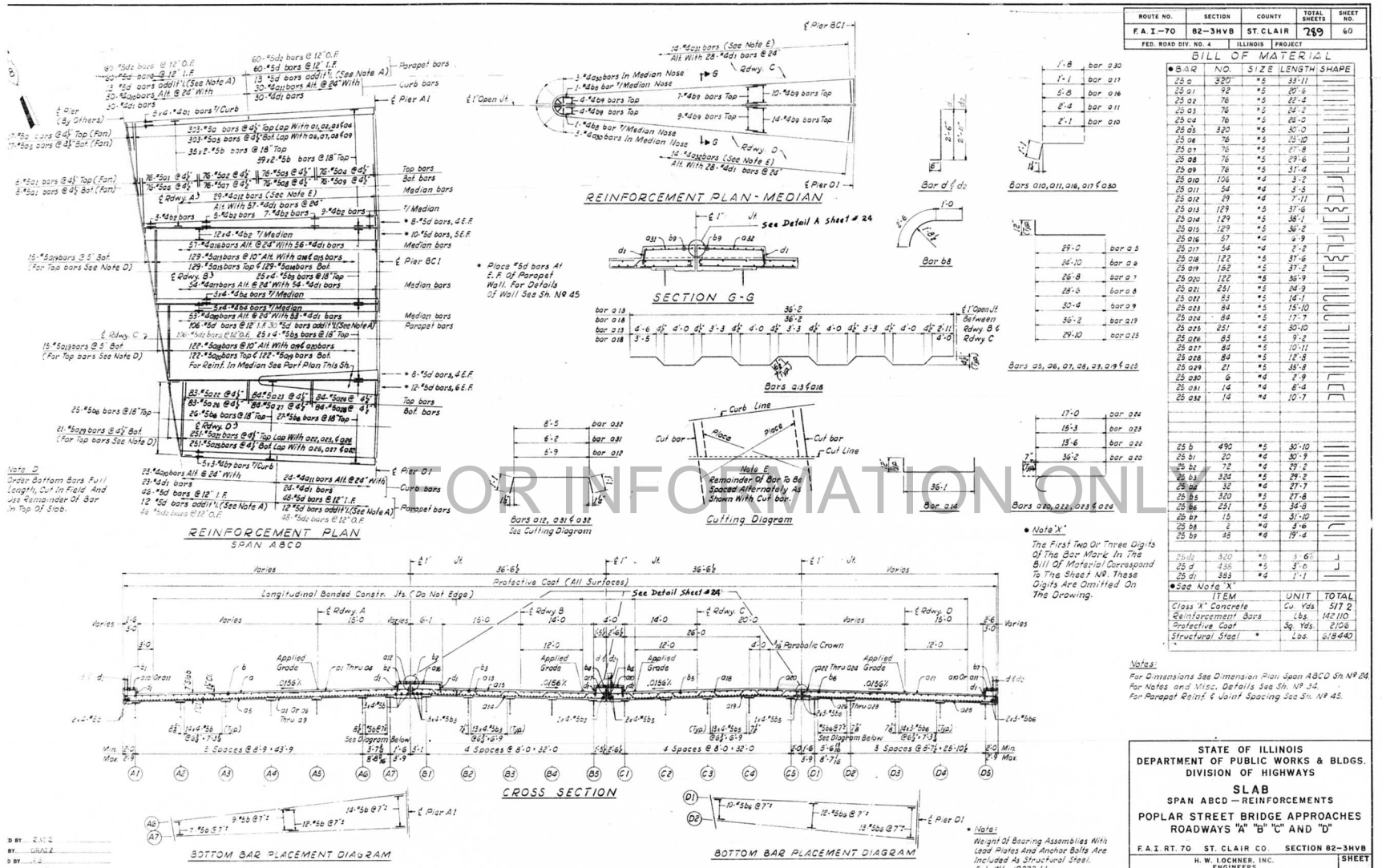
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

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

SHEET 24 of 241

ED BY ...R.K.R.
BY ...D.M.T.Z.
ED BY ...A.J.
VED BY ...K.A.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82—3HVB	ST. CLAIR	289	60
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



BILL OF MATERIAL

• BAR	NO.	SIZE	LENGTH	SHAPE
25 a	330	#5	33'-11	
25 a1	92	#5	20'-6	
25 a2	76	#5	22'-4	
25 a3	76	#5	24'-2	
25 a4	76	#5	26'-0	
25 a5	320	#5	30'-0	
25 a6	76	#5	25'-10	
25 a7	76	#5	27'-8	
25 a8	76	#5	29'-6	
25 a9	76	#5	31'-4	
25 a10	136	#4	3'-2	
25 a11	54	#4	3'-6	
25 a12	39	#4	7'-11	
25 a13	129	#5	37'-6	
25 a14	129	#5	38'-1	
25 a15	129	#5	36'-2	
25 a16	57	#4	6'-9	
25 a17	54	#4	2'-2	
25 a18	122	#5	37'-6	
25 a19	152	#5	37'-2	
25 a20	122	#5	36'-9	
25 a21	251	#5	14'-9	
25 a22	53	#5	14'-1	
25 a23	84	#5	15'-10	
25 a24	64	#5	17'-7	
25 a25	251	#5	30'-10	
25 a26	83	#5	9'-2	
25 a27	84	#5	10'-11	
25 a28	84	#5	12'-8	
25 a29	21	#5	36'-8	
25 a30	6	#4	2'-9	
25 a31	14	#4	8'-4	
25 a32	14	#4	10'-7	
25 b	490	#5	30'-10	
25 b1	20	#4	30'-9	
25 b2	72	#4	29'-2	
25 b3	324	#5	29'-2	
25 b4	32	#4	27'-7	
25 b5	320	#5	27'-8	
25 b6	251	#5	34'-8	
25 b7	15	#4	31'-10	
25 b8	2	#4	5'-0	
25 b9	98	#4	19'-4	
25 da	320	#5	3'-6	
25 d	438	#5	3'-0	
25 d1	383	#4	1'-1	

• See Note 'X'

ITEM	UNIT	TOTAL
Class 'X' Concrete	Cu. Yds.	517.2
Reinforcement Bars	Lbs.	142,110
Protective Coat	Sq. Yds.	2106
Structural Steel *	Lbs.	6,18440

• Note 'X'
The First Two Or Three Digits Of The Bar Mark In The Bill Of Material Correspond To The Sheet No. These Digits Are Omitted On The Drawing.

Notes:
For Dimensions See Dimension Plan Span ABCD Sh. No 24.
For Notes and Misc. Details See Sh. No 34.
For Parapet Reinf. & Joint Spacing See Sh. No 45.

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

SLAB
SPAN ABCD — REINFORCEMENTS
POPLAR STREET BRIDGE APPROACHES
ROADWAYS "A" "B" "C" AND "D"

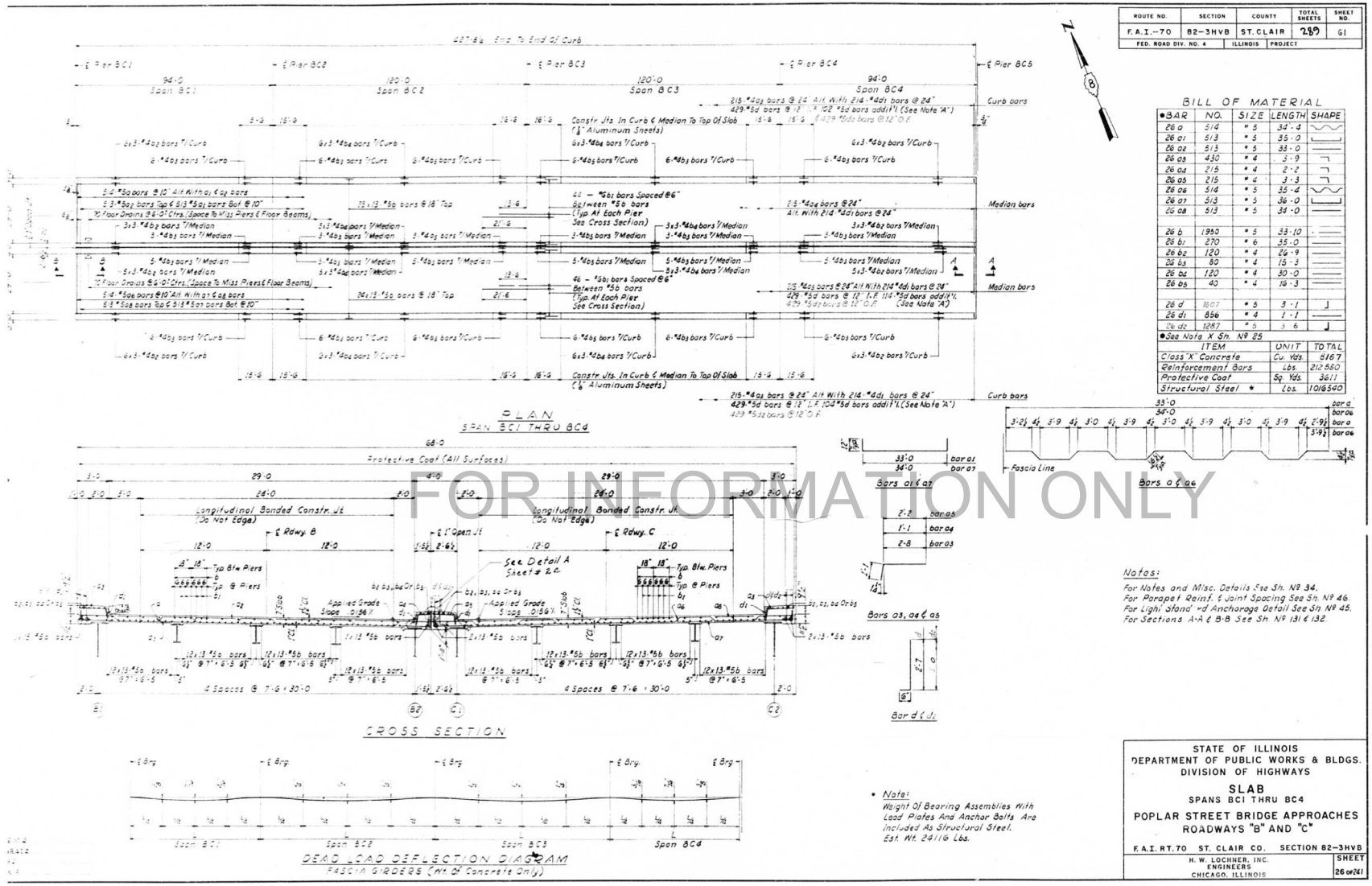
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

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

SHEET 25 OF 241

D BY... S.K.C.
BY... G.R.N.Z.
D BY... J.J.
ED BY... J.S.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	61
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



BILL OF MATERIAL

•BAR	NO.	SIZE	LENGTH	SHAPE
26 a	514	# 5	34'-4	
26 a1	513	# 5	35'-0	
26 a2	513	# 5	33'-0	
26 a3	430	# 4	3'-9	
26 a4	216	# 4	2'-2	
26 a5	215	# 4	3'-3	
26 a6	514	# 5	35'-4	
26 a7	513	# 5	36'-0	
26 a8	513	# 5	34'-0	
26 b	1950	# 5	33'-10	
26 b1	270	# 6	35'-0	
26 b2	120	# 4	26'-9	
26 b3	80	# 4	15'-3	
26 b4	120	# 4	30'-0	
26 b5	40	# 4	15'-3	
26 d	1807	# 5	3'-1	
26 d1	856	# 4	1'-1	
26 d2	1287	# 5	3'-6	

•See Note 'X' Sh. № 25

ITEM	UNIT	TOTAL
Class 'X' Concrete	Cu. Yds.	5167
Reinforcement Bars	Lbs.	212550
Protective Coat	Sq. Yds.	3611
Structural Steel *	Lbs.	1016540

* Note:
Weight Of Bearing Assemblies With Load Plates And Anchor Bolts Are Included As Structural Steel. Est. Wt. 24116 Lbs.

Notes:
For Notes and Misc. Details See Sh. № 34.
For Parapet Reinf. & Joint Spacing See Sh. № 46.
For Light Standard Anchorage Detail See Sh. № 45.
For Sections A-A & B-B See Sh. № 131 & 132.

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

SLAB
SPANS BC1 THRU BC4

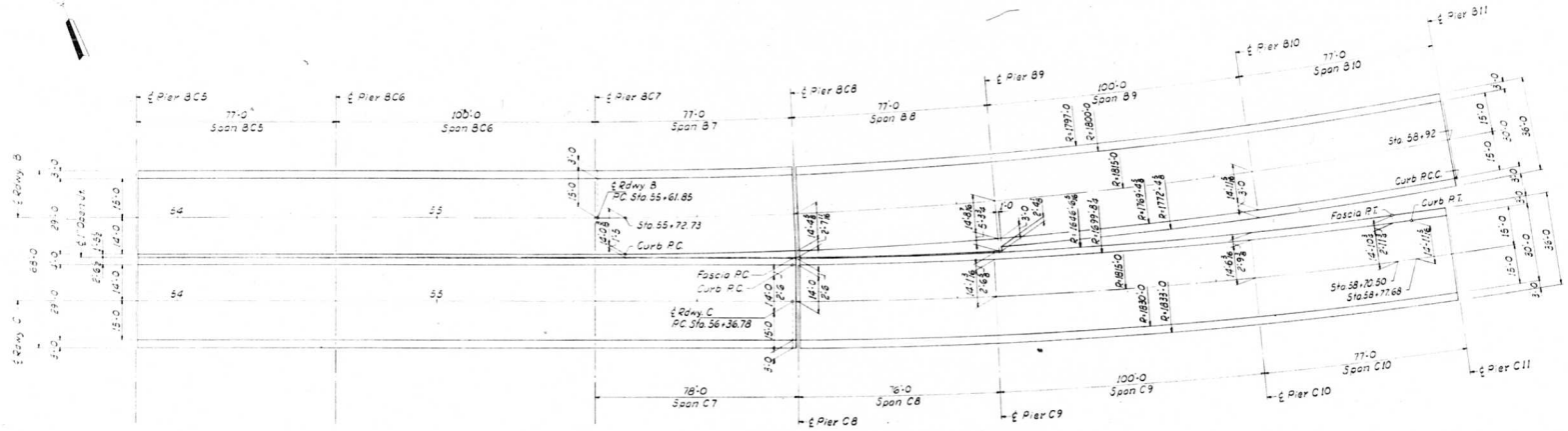
POPLAR STREET BRIDGE APPROACHES
ROADWAYS "B" AND "C"

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

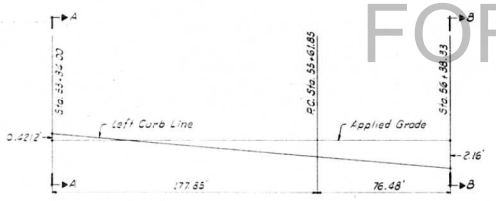
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 26 OF 241

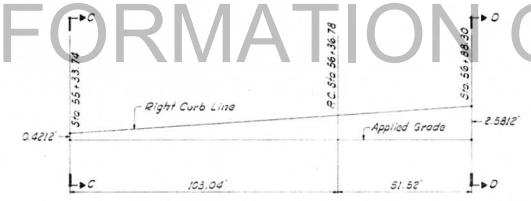
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	62
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



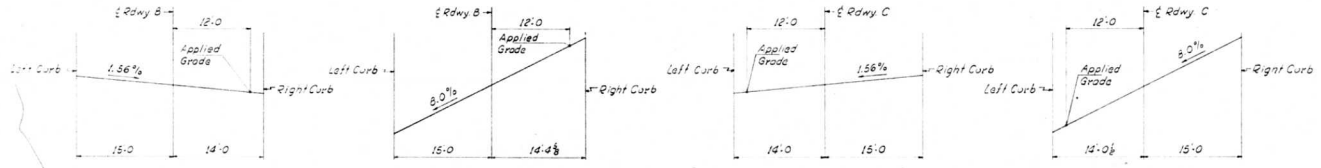
RDWY. B & C WIDENING TRANSITION



RDWY. B CROSS SECTION TRANSITION



RDWY. C CROSS SECTION TRANSITION



SECTION A-A SECTION B-B SECTION C-C SECTION D-D

DESIGNED BY
DRAWN BY
CHECKED BY
APPROVED BY

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

SLAB

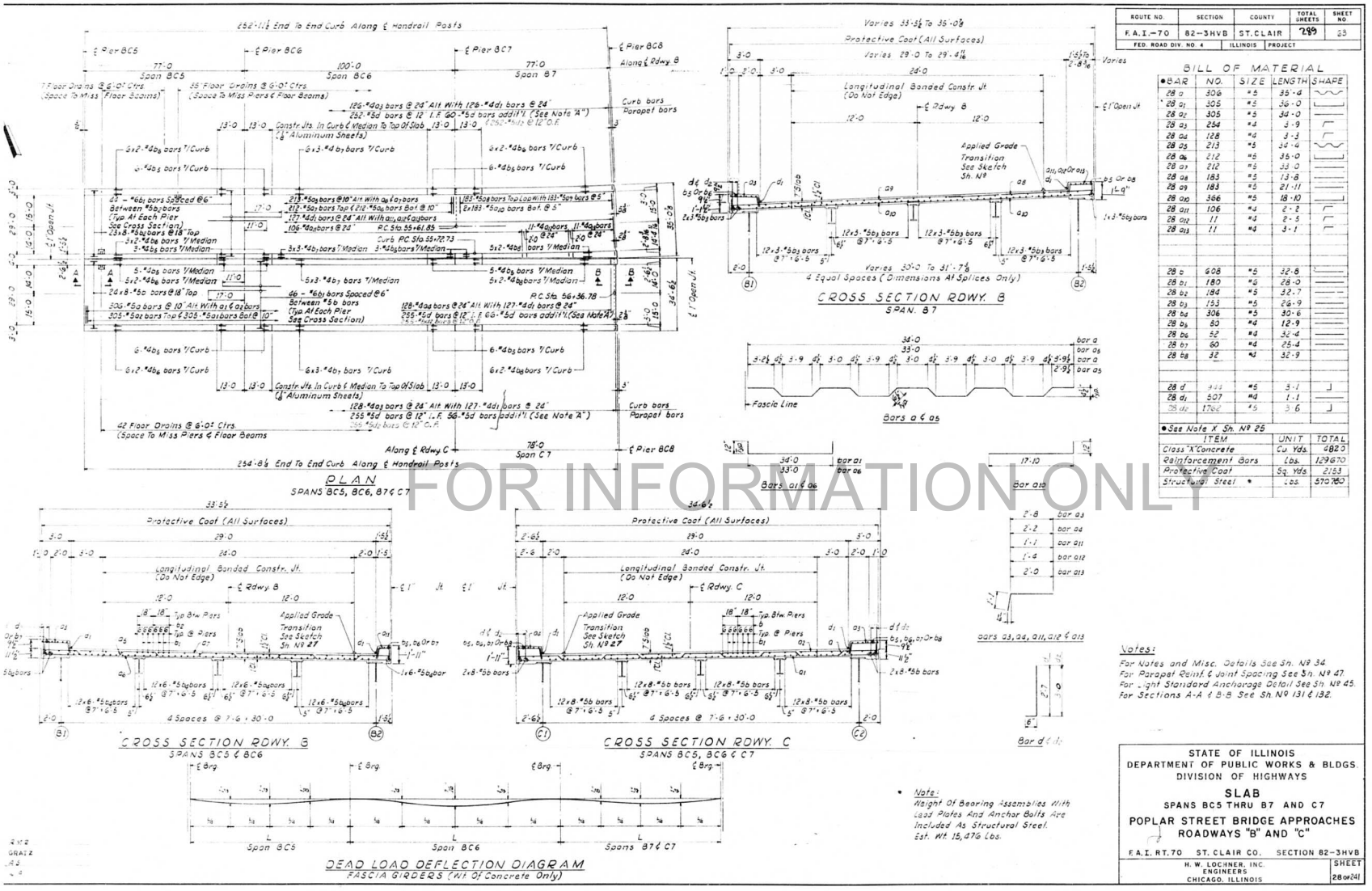
SPANS BC5, BC6, B7 THRU B10 AND C7 THRU C10
DIMENSIONS

POPLAR STREET BRIDGE APPROACHES
ROADWAYS "B" AND "C"

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

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

SHEET 27 of 241



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	239	28
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

•BAR	NO.	SIZE	LENGTH	SHAPE
28 a	306	#5	35-6	
28 a1	305	#5	36-0	
28 a2	305	#5	34-0	
28 a3	254	#4	3-9	
28 a4	128	#4	3-3	
28 a5	213	#5	34-4	
28 a6	212	#5	35-0	
28 a7	212	#5	33-0	
28 a8	183	#5	13-8	
28 a9	183	#5	21-11	
28 a10	366	#5	18-10	
28 a11	106	#4	2-2	
28 a12	11	#4	2-5	
28 a13	11	#4	3-1	
28 a	608	#5	32-8	
28 b1	180	#5	28-0	
28 b2	184	#5	32-7	
28 b3	153	#5	26-9	
28 b4	306	#5	30-6	
28 b5	80	#4	12-9	
28 b6	52	#4	32-4	
28 b7	60	#4	25-4	
28 b8	32	#4	32-9	
28 d	444	#5	3-1	
28 d1	507	#4	1-1	
28 d2	1762	#5	3-6	

•See Note X Sh. N° 25

ITEM	UNIT	TOTAL
Class "X" Concrete	Cu. Yds.	482.0
Reinforcement Bars	Lbs.	129670
Protective Coat	Sq. Yds.	2153
Structural Steel *	Lbs.	570760

Notes:
For Notes and Misc. Details See Sh. N° 34.
For Parapet Reinf. & Joint Spacing See Sh. N° 47.
For Light Standard Anchorage Detail See Sh. N° 45.
For Sections A-A & B-B See Sh. N° 131 & 132.

* Note:
Weight Of Bearing Assemblies With Load Plates And Anchor Bolts Are Included As Structural Steel. Est. Wt. 15,476 Lbs.

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

SLAB
SPANS BC5 THRU B7 AND C7

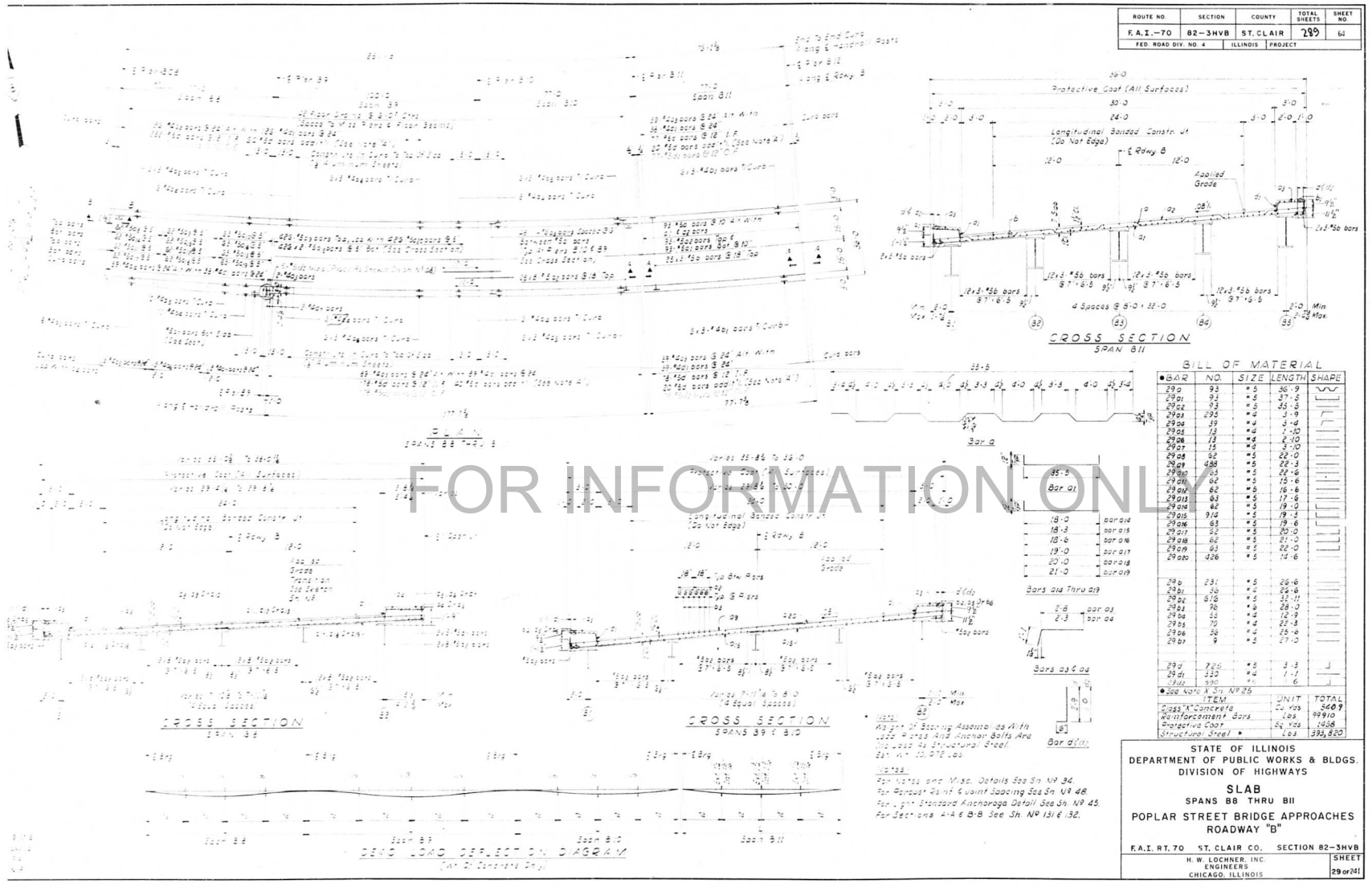
POPLAR STREET BRIDGE APPROACHES
ROADWAYS "B" AND "C"

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

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

SHEET 28 or 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	64
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	



BILL OF MATERIAL

• BAR	NO.	SIZE	LENGTH	SHAPE
29a	93	#5	36-9	
29a1	93	#5	37-5	
29a2	93	#5	35-5	
29a3	295	#4	3-9	
29a4	39	#4	3-4	
29a5	13	#4	1-10	
29a6	13	#4	2-10	
29a7	15	#4	3-10	
29a8	93	#5	22-0	
29a9	488	#5	22-3	
29a10	63	#5	22-6	
29a11	62	#5	15-6	
29a12	62	#5	16-6	
29a13	63	#5	17-6	
29a14	62	#5	19-0	
29a15	914	#5	19-3	
29a16	63	#5	19-6	
29a17	93	#5	20-0	
29a18	62	#5	21-0	
29a19	93	#5	22-0	
29a20	326	#5	14-6	
29b	291	#5	26-6	
29b1	58	#4	29-6	
29b2	616	#5	32-11	
29b3	96	#6	28-0	
29b4	45	#4	12-9	
29b5	70	#4	23-3	
29b6	36	#4	25-6	
29b7	9	#5	27-0	
29d	720	#5	3-3	
29d1	330	#4	1-1	
29d2	990	#4	6	

• See Note A On Nº 25

ITEM	UNIT	TOTAL
Class "A" Concrete	Cu. Yds.	2609
Reinforcement Bars	Lbs.	99910
Protective Coat	Sq. Yds.	1988
Structural Steel *	Lbs.	393,820

Note:
Each of 2 Bearing Assemblies With 1.222 Grade A115 Anchor Bolts Are Included As Structural Steel.
Est. Wt. 10,072 Lbs.

For Notes and Misc. Details See Sh. Nº 34.
For Reinforcement Bar Layout Spacing See Sh. Nº 48.
For Light Standard Anchorage Detail See Sh. Nº 45.
For Sections A-A & B-B See Sh. Nº 131 & 132.

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

SLAB
SPANS B8 THRU B11

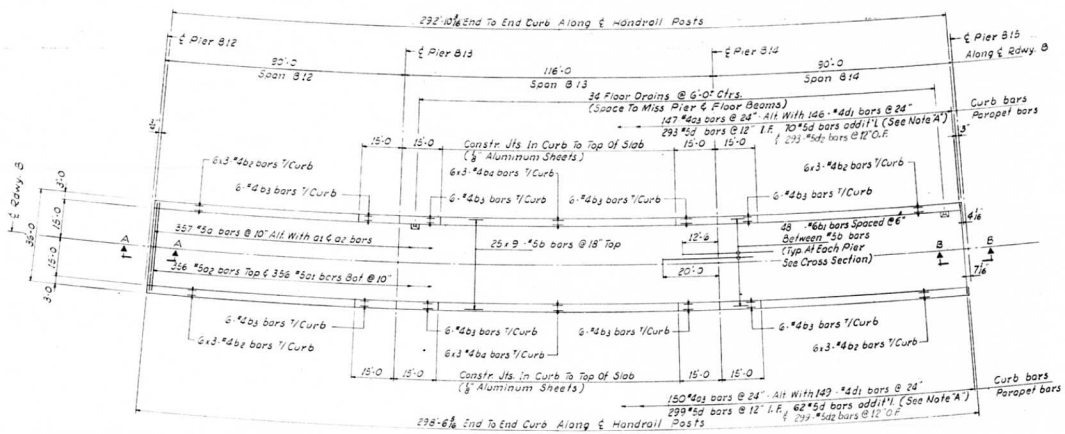
POPLAR STREET BRIDGE APPROACHES
ROADWAY "B"

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

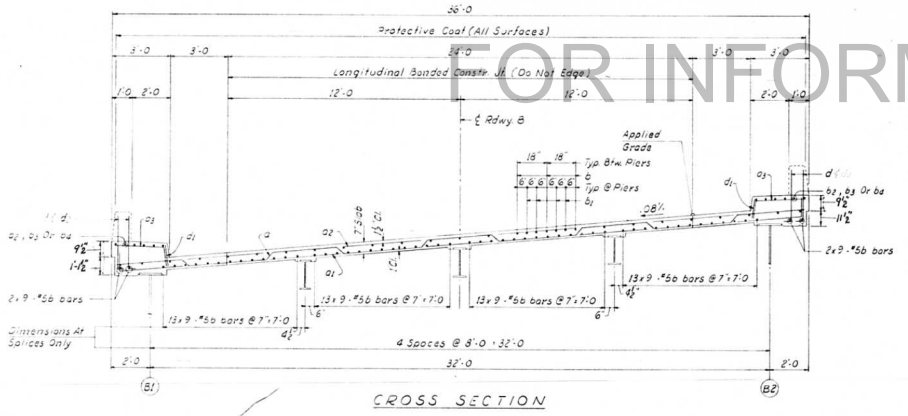
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 29 OF 241

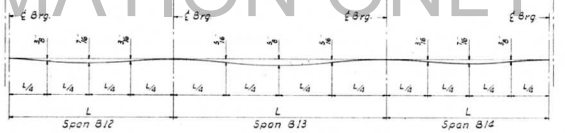
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	285	65
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	



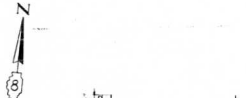
PLAN
SPANS B12 THRU B14

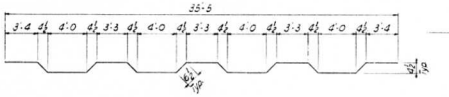


CROSS SECTION



DEAD LOAD DEFLECTION DIAGRAM
FASCIA GIRDERS
(Wt. Of Concrete Only)





BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
30a	357	#5	36'-9	
30a1	356	#5	37'-5	
30a2	356	#5	35'-5	
30a3	297	#4	3'-9	
30b	729	#5	34'-0	
30b1	96	#6	32'-6	
30b2	72	#4	25'-10	
30b3	48	#4	14'-9	
30b4	36	#4	29'-1½	
30d	724	#5	3'-3	
30d1	295	#4	1'-1	
30d2	592	#5	3'-6	

• See Note X Sh. Nº 25

ITEM	UNIT	TOTAL
Class 'X' Concrete	Cu. Yds.	2.99 #
Reinforcement Bars	Lbs.	79370
Protective Coat	Sq. Yds.	1312
Structural Steel =	Lbs.	361740

Notes:
For Notes and Misc. Details See Sh. Nº 34.
For Parapet Reinf. & Joint Spacing See Sh. Nº 49.
For Light Standard Anchorage Detail See Sh. Nº 45.
For Sections A-A & B-B See Sh Nº 131 & 132.

• Note:
Weight Of Bearing Assemblies With Lead Plates And Anchor Bolts Are Included As Structural Steel.
Est. Wt. 8642

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

SLAB
SPANS B12 THRU B14

POPLAR STREET BRIDGE APPROACHES
ROADWAY "B"

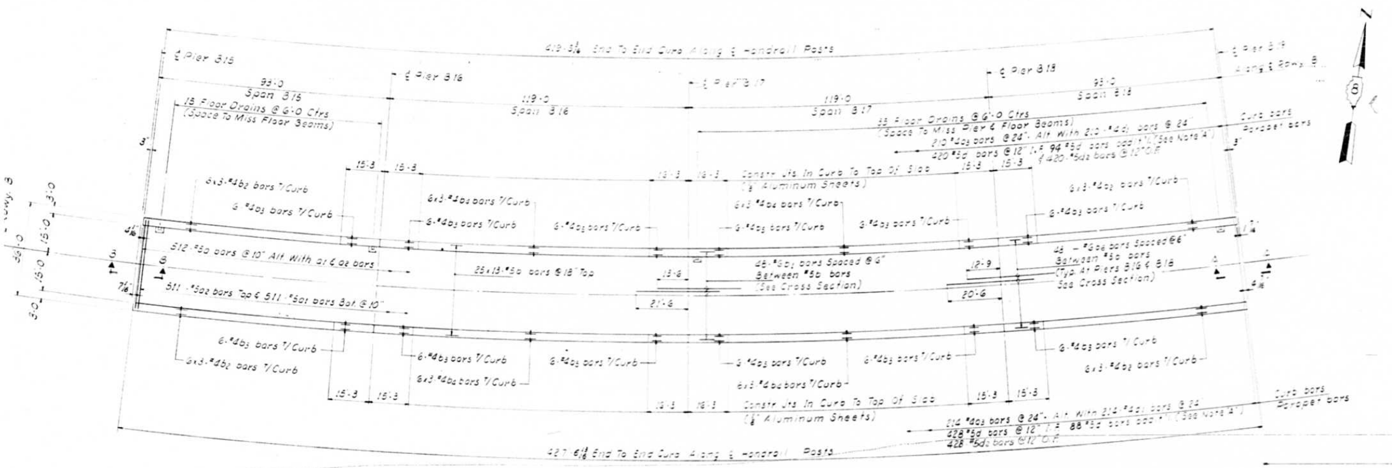
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

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

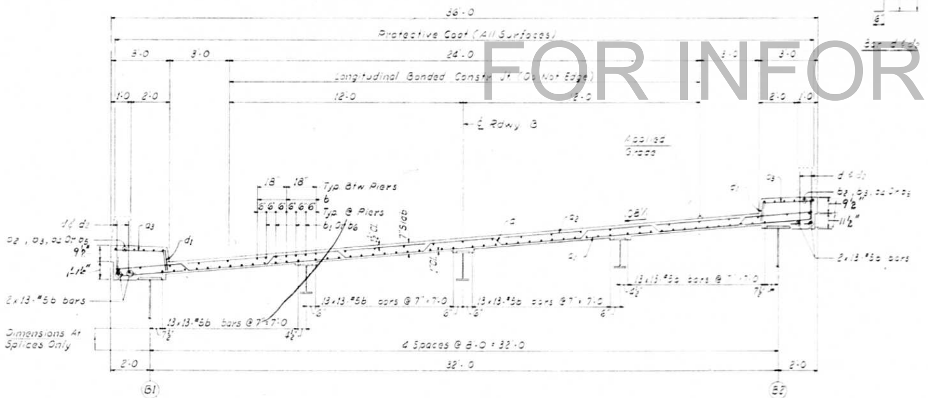
SHEET 30 OF 241

DESIGNED BY RMK
DRAWN BY GRATZ
CHECKED BY AS
APPROVED BY KA

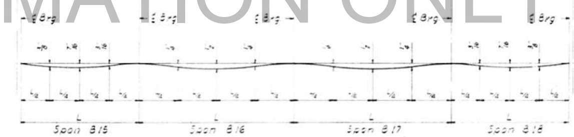
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	[illegible]
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



PLAN
SPANS B15 THRU B18



CROSS SECTION



DEAD LOAD DEFLECTION DIAGRAM
FASCIA GIRDERS
(Wt Of Concrete Only)

BILL OF MATERIAL

•BAR	NO.	SIZE	LENGTH	SHAPE
31a	512	#5	36'-9	
31a₁	511	#5	37-5	
31a₂	511	#5	35-5	
31a₃	424	#4	3-9	
31b	1053	#5	33-10	
31b₁	48	#6	35-0	
31b₂	72	#4	26-10	
31b₃	48	#4	15-0	
31b₄	72	#4	30-2	
31b₅	24	#4	16-0	
31b₆	96	#6	33-3	
31d	1030	#5	3-3	
31d₁	424	#4	1-1	
31d₂	848	#5	3 6	

• See Note X Sh. Nº 25

ITEM	UNIT	TOTAL
Class "X" Concrete	Cu. Yds.	429.0
Reinforcement Bars	Lbs.	114510
Protective Coat	Sq. Yds.	1879
Structural Steel *	Lbs.	535570

Notes:
For Notes and Misc. Details See Sh. Nº 34.
For Parapet Reinf. & Joint Spacing See Sh. Nº 50.
For Light Standard Anchorage Detail See Sh. Nº 45.
For Sections A-A & B-B See Sh Nº 131 & 132.

* Note:
Weight Of Bearing Assemblies With Lead Plates And Anchor Bolts Are Included As Structural Steel.
Est. Wt. 11492

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

SLAB
SPANS B15 THRU B18

POPLAR STREET BRIDGE APPROACHES
ROADWAY "B"

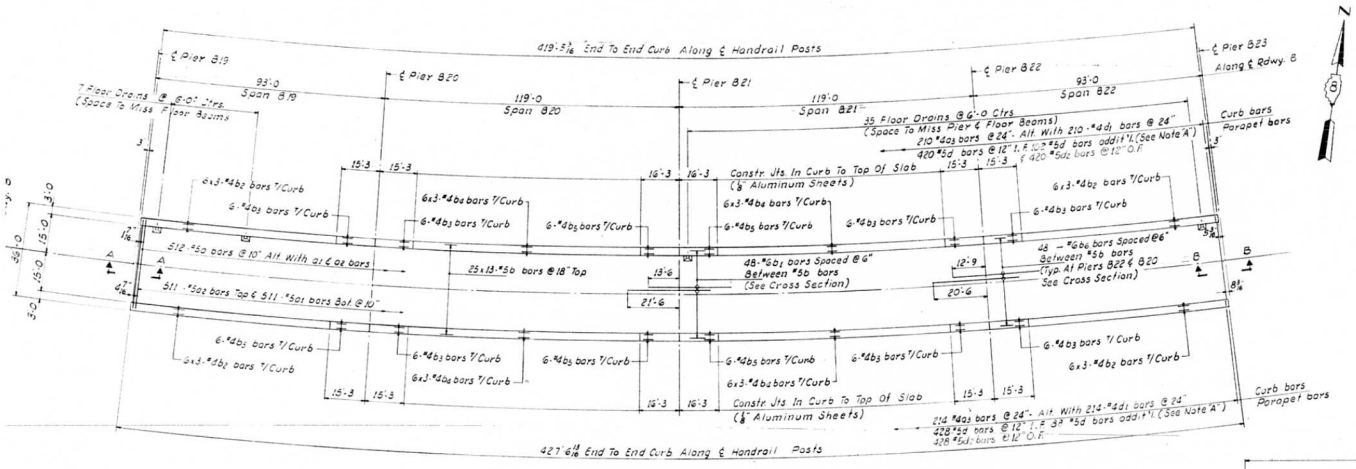
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

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

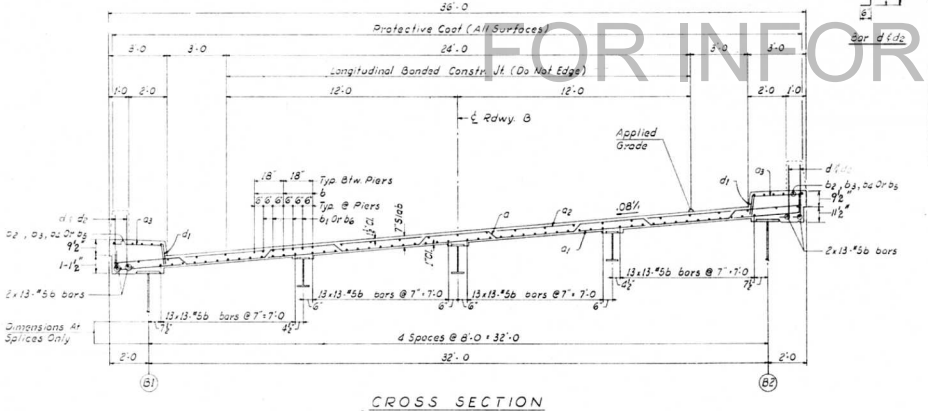
SHEET 31 OF 241

D BY RMR
BY GRATZ
BY AS

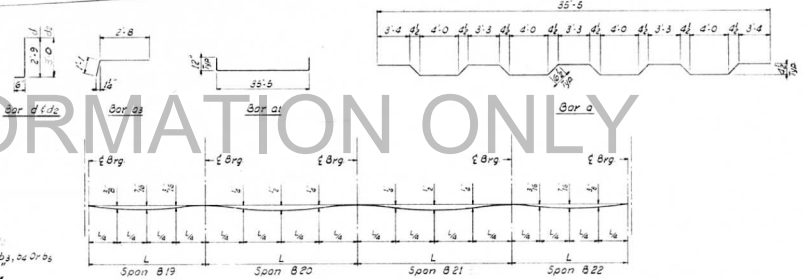
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. -70	82-3HVB	ST. CLAIR	259	67
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



PLAN
SPANS B19 THRU B22



CROSS SECTION



DEAD LOAD DEFLECTION DIAGRAM
FASCIA GIRDERS
(Wt Of Concrete Only)

BILL OF MATERIAL

*BAR	NO.	SIZE	LENGTH	SHAPE
32 a	512	#5	36'-9	
32 a_1	511	#5	37'-5	
32 a_2	511	#5	35'-5	
32 a_3	424	#4	3'-9	
32 b	1053	#5	33'-10	
32 b_1	48	#6	35'-0	
32 b_2	72	#4	26'-10	
32 b_3	48	#4	15'-0	
32 b_4	72	#4	30'-2	
32 b_5	24	#4	16'-0	
32 b_6	96	#6	33'-3	
32 d	1038	#5	3'-3	J
32 d_1	424	#4	1'-1	J
32 d_2	845	#5	1'-6	J

*See Note X Sh. N° 25

ITEM	UNIT	TOTAL
Class 'X' Concrete	Cu. Yds.	528.9
Reinforcement Bars	Lbs.	114530
Protective Coat	Sq. Yds.	1879
Structural Steel *	Lbs.	531870

Notes:
For Notes and Misc. Details See Sh. N° 34.
For Parapet Reinf. ℄ Joint Spacing See Sh. N° 51.
For Light Standard Anchorage Detail See Sh. N° 45.
For Sections A-A & B-B See Sh. N° 131 & 132.

* Note:
Weight Of Bearing Assemblies With Lead Plates And Anchor Bolts Are Included As Structural Steel.
Est. Wt. 12058 Lbs.

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

SLAB
SPANS B19 THRU B22

POPLAR STREET BRIDGE APPROACHES
ROADWAY "B"

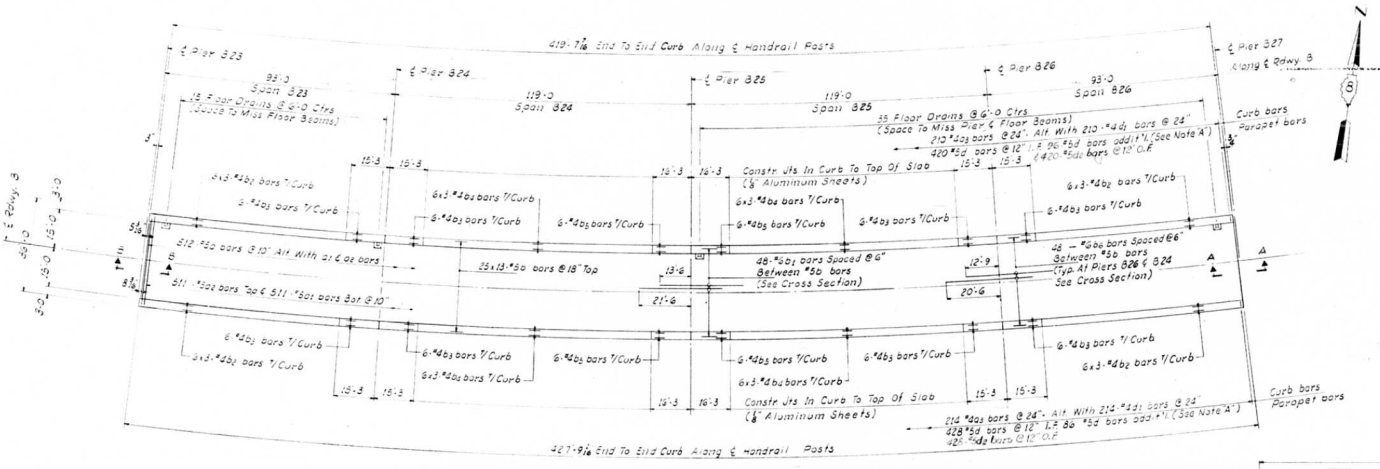
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

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

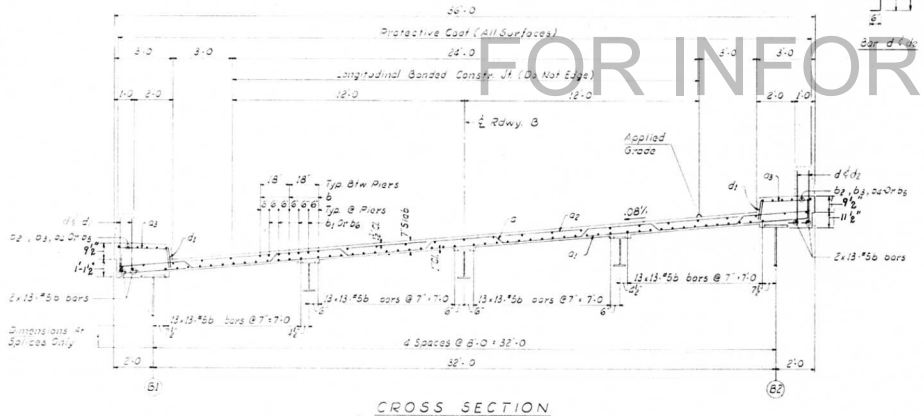
SHEET 32 OF 241

D BY R.M.R.
BY GRATZ
BY A.S.
D BY K.A.

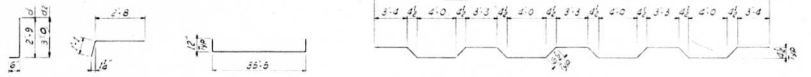
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I-70	82-3HVB	ST. CLAIR	259	68
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



PLAN
SPANS B23 THRU B26



CROSS SECTION



DEAD LOAD DEFLECTION DIAGRAM
FASCIA GIRDERS
(Wt. Of Concrete Only)

BILL OF MATERIAL

*BAR	NO.	SIZE	LENGTH	SHAPE
33 a	512	#5	56'-9	
33 a1	511	#5	37'-5	
33 a2	511	#5	35'-5	
33 a3	424	#4	3'-9	
33 b	1053	#5	33'-10	
33 b1	48	#6	35'-0	
33 b2	72	#4	26'-10	
33 b3	48	#4	15'-0	
33 b4	72	#4	30'-2	
33 b5	24	#4	16'-0	
33 b6	96	#6	33'-3	
33 d	1030	#5	3'-3	
33 d1	424	#4	1'-1	
33 d2	848	#5	3'-6	

*See Note X Sh Nº 26

ITEM	UNIT	TOTAL
Class 'X' Concrete	Cu. Yds.	429.1
Reinforcement Bars	Lbs.	114510
Protective Coat	Sq. Yds.	1890
Structural Steel *	Lbs.	550110

Notes:
For Notes and Misc. Details See Sh. Nº 34.
For Parapet Reinf. & Joint Spacing See Sh. Nº 52.
For Light Standard Anchorage Detail See Sh. Nº 45.
For Sections A-A & B-B See Sh. Nº 131 & 132.

* Note:
Weight Of Bearing Assemblies With Lead Plates And Anchor Bolts Are Included As Structural Steel.
Est. Wt. 12058 Lbs.

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

SLAB
SPANS B23 THRU B26

POPLAR STREET BRIDGE APPROACHES
ROADWAY "B"

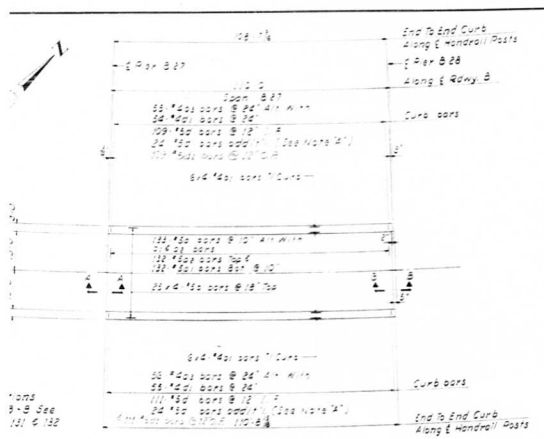
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

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

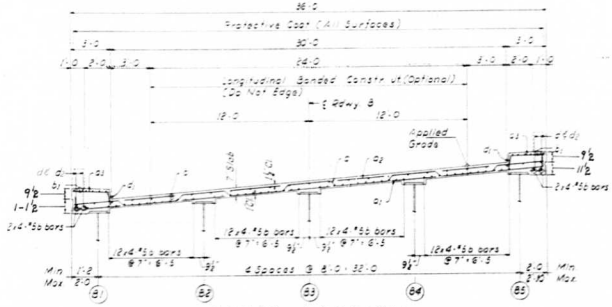
SHEET 33 of 241

ED BY R.K.H.
BY GRATZ
ED BY J.C.
VED BY

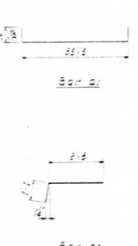
ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F A I -70	82-3HVB	ST CLAIR	289	49
FED ROAD DIV NO 4		ILLINOIS	PROJECT *	



PLAN
Span B 27



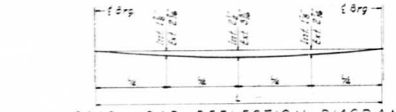
CROSS SECTION



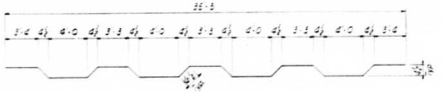
BILL OF MATERIAL

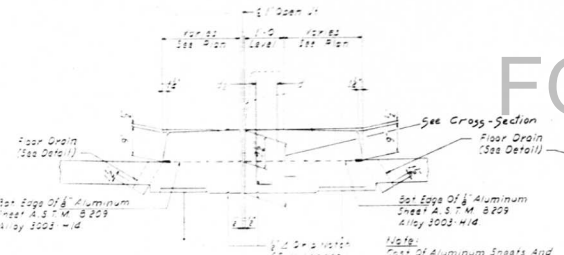
BAR	NO	SIZE	LENGTH	SHAPE
B4 a	133	#5	56'-9	
B4 a1	132	#5	37'-5	
B4 a2	132	#5	35'-5	
B4 a3	111	#4	3'-9	
B4 b	208	#5	56'-4	
B4 b1	88	#4	56'-4	
B4 a4	266	#5	3'-3	
B4 a5	109	#4	1'-11	
B4 a6	220	#5	1'-6	

ITEM	UNIT	TOTAL
Class X Concrete	Cu Yds	111
Reinforcement Bars	Lbs	27250
Protective Coat	Sq Yds	487
Structural Steel *	Lbs	55270

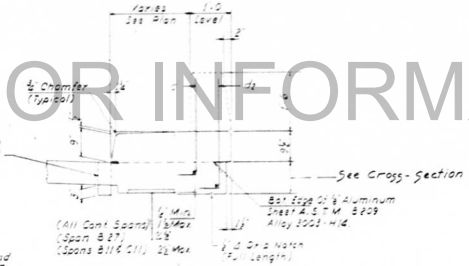


DEAD LOAD DEFLECTION DIAGRAM
(Wt Of Concrete Only)





MEDIAN DETAIL



CURB DETAIL

BAR SPACING DIAGRAM
See Note "C"

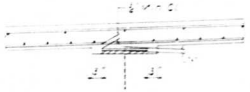
GENERAL SLAB NOTES

Note "A" 2 Additional #5a Bars Inside Face Of Parapet At Each Handrail Post And Light Standard

Note "B" Bars Indicated Thus 5x4 #5 Etc Indicates 5 Lines Of Bars With 4 Lengths Per Line. Min Bar Laps = 20 Dia

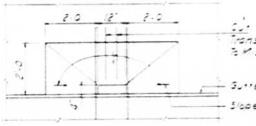
Note "C" Transverse Bars In A Horizontal Curved Slab Are To Be Spaced Radially At ⅛ Max See Bar Spacing Diagram

I F = Inside Face
O F = Outside Face



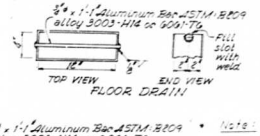
METHOD OF DETERMINING FILLET HEIGHTS "Y"

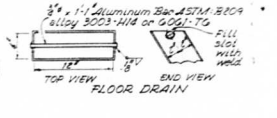
After All Structural Steel Has Been Erected, Elevations Of The Top Flanges Of The Beams Shall Be Taken At Intervals Shown On Sheets B4 Thru B8. These Elevations Subtracted From The Theoretical Grade Elevations Adjusted For Dead Load Deflection Shown On Sheets B4 Thru B8 Minus Slab Thickness Equals The Fillet Heights Above Top Of Beams



FLOOR DRAIN DETAIL

4" x 12" Drains To Be Fabricated From ⅛" Welded Sheets Of Material Conforming To A.S.T.M. B209 Alloy 3003-H14 Or A.S.T.M. B209 Alloy 6061-T6. (For Spacing See Plans)





Note:
Weight Of Bearing Assemblies With Load Plates And Anchor Bolts Are Included As Structural Steel
Est Wt 2998 Lbs

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

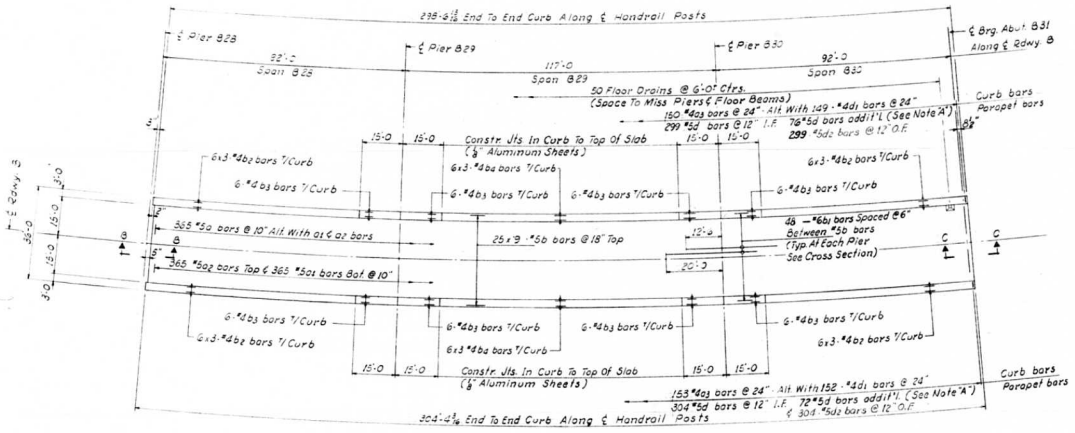
SLAB
SPAN B27 AND SLAB DETAILS
POPLAR STREET BRIDGE APPROACHES
ROADWAYS "A", "B", "C", "D" AND RAMPS "M" & "S"

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

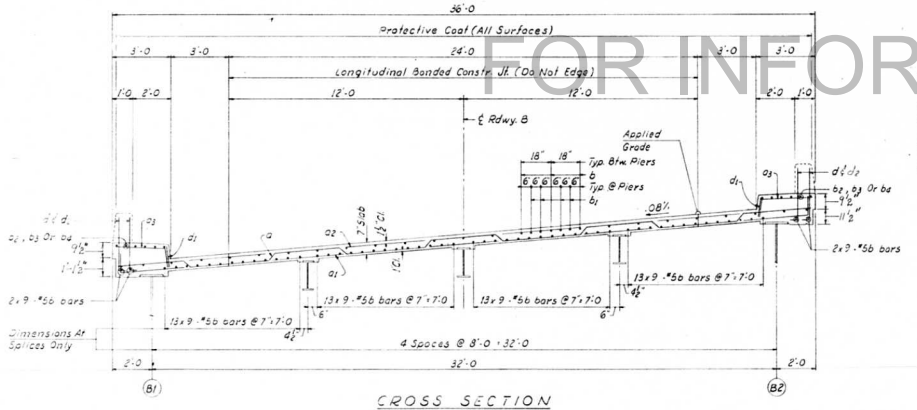
H W LOCHNER, INC
ENGINEERS
CHICAGO, ILLINOIS

SHEET 34 OF 241

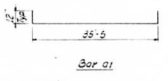
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82—3HVB	ST. CLAIR	249	35
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

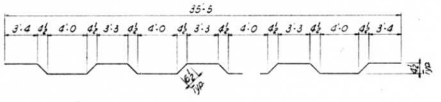


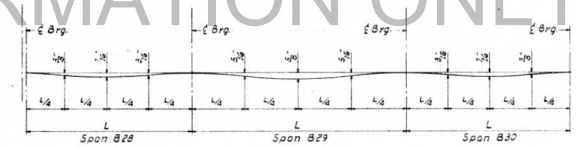
PLAN
SPANS B28 THRU B30



CROSS SECTION







DEAD LOAD DEFLECTION DIAGRAM
FASCIA GIRDERS
(Wt. Of Concrete Only)

BILL OF MATERIAL

•BAR	NO.	SIZE	LENGTH	SHAPE
35a	365	#5	36'-9	
35a1	365	#5	37'-5	
35a2	365	#5	35'-5	
35a3	303	#4	3'-9	
35b	729	#5	34'-9	
35b1	96	#6	32'-6	
35b2	72	#4	26'-10	
35b3	48	#4	14'-9	
35ba	36	#4	30'-0	
35d	751	#5	3'-3	
35d1	301	#4	1'-1	
35d2	603	#5	3'-6	

•See Note X, Sh. N° 25

ITEM	UNIT	TOTAL
Class "X" Concrete	Cu. Yds.	305.1
Reinforcement Bars	Lbs.	81140
Protective Coat	Sq. Yds.	1338
Structural Steel *	Lbs.	360950

Notes:
For Notes and Misc. Details See Sh. N° 34.
For Parapet Reinf. ℄ Joint Spacing See Sh. N° 53.
For Light Standard Anchorage Detail See Sh. N° 45.
For Sections B-B ℄ C-C See Sh. N° 131 ℄ 132

* Note:
Weight Of Bearing Assemblies With Lead Plates And Anchor Bolts Are Included As Structural Steel.
Est. Wt. 8642 Lbs.

BY R.M.R.
BY GRATZ
BY R.S.
BY K.S.

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

SLAB
SPANS B28 THRU B30

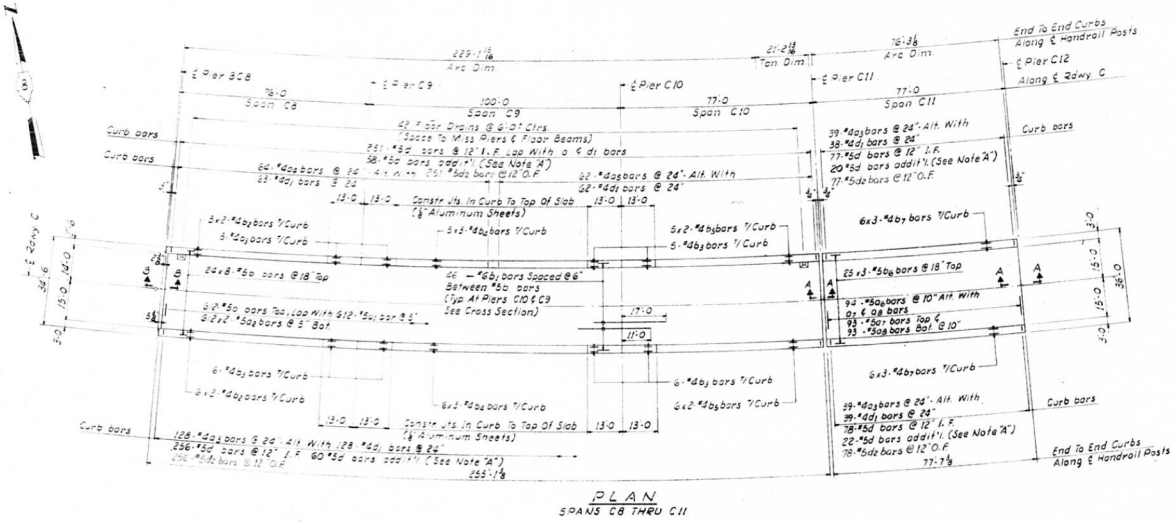
POPLAR STREET BRIDGE APPROACHES
ROADWAY "B"

F.A.I. RT. 70 ST. CLAIR CO. SECTION 82—3HVB

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

SHEET 35 of 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	71
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



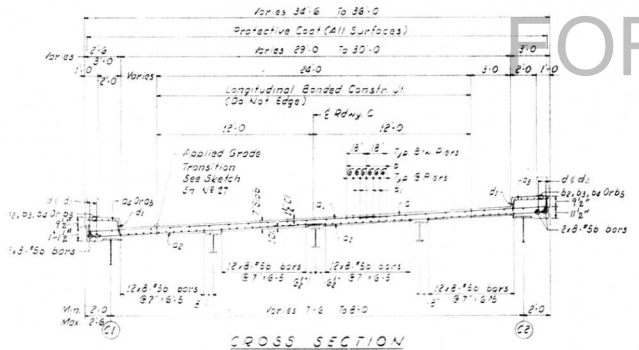
PLAN
SPANS C8 THRU C11

BILL OF MATERIAL

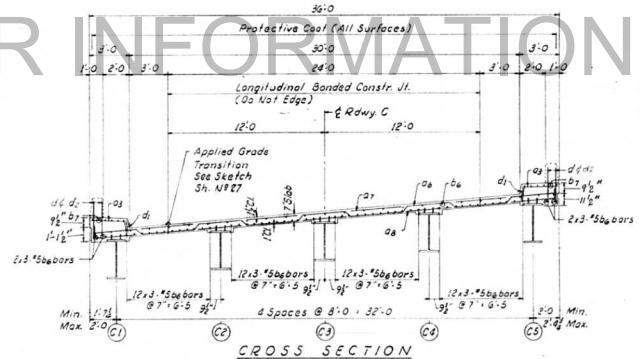
• BAR NO.	SIZE	LENGTH	SHAPE
36 a	#5	14-3	
36 a1	#5	22-9	
36 a2	#5	19-3	
36 a3	#4	3-9	
36 a4	#4	3-3	
36 a5	#4	3-6	
36 a6	#5	36-9	
36 a7	#5	36-5	
36 a8	#5	37-5	
36 b	#8	32-9	
36 b1	#6	28-0	
36 b2	#4	32-1	
36 b3	#4	12-9	
36 b4	#4	25-7	
36 b5	#4	32-8	
36 b6	#5	26-6	
36 b7	#4	26-6	
36 d	#8	3-3	J
36 d1	#4	1-1	
36 d2	#5	3-6	J

• See Note X Sh. № 25

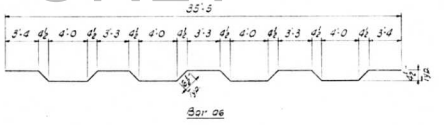
ITEM	UNIT	TOTAL
Class "X" Concrete	Cu. Yds.	3302
Reinforcement Bars	Lbs.	98770
Protective Coat	Sq. Yds.	1442
Structural Steel •	Lbs.	39160



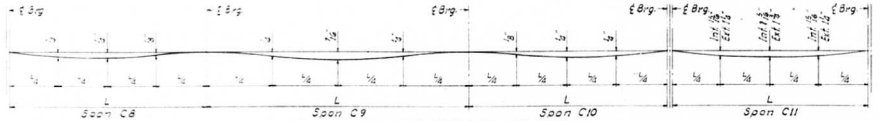
CROSS SECTION
SPANS C8, C9 & C10



CROSS SECTION
SPAN C11



Notes:
For Notes and Misc. Details See Sh. № 34.
For Parapet Reinf. & Joint Spacing See Sh. № 54.
For Light Standard Anchorage Detail See Sh. № 45.
For Sections A-A & B-B See Sh. № 131 & 132.



DEAD LOAD DEFLECTION DIAGRAM
(Wt. Of Concrete Only)

• Note:
Weight Of Bearing Assemblies With Lead Plates And Anchor Bolts Are Included As Structural Steel. Est. Wt. 10072 Lbs.

DESIGNED BY R.K.Z.
DETAILED BY GRAIZ
CHECKED BY A.S.
APPROVED BY K.A.

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

SLAB
SPANS C8 THRU C11

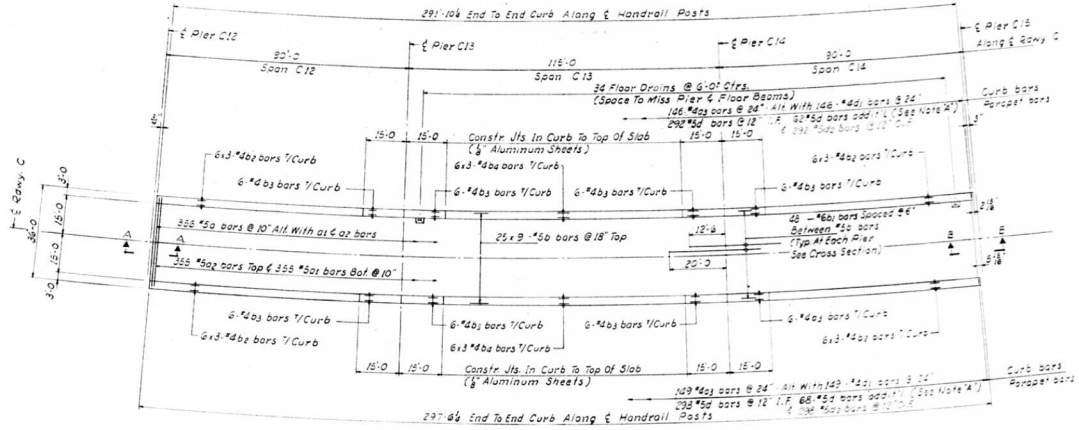
POPLAR STREET BRIDGE APPROACHES
ROADWAY "C"

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

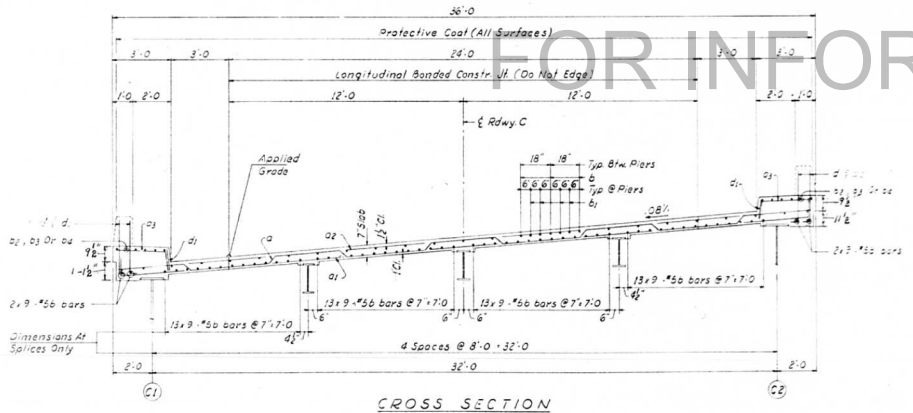
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 36 of 241

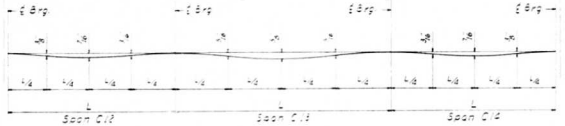
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	37
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



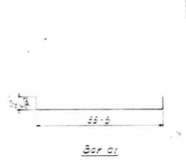
PLAN
SPANS C12 THRU C14



CROSS SECTION



DEAD LOAD DEFLECTION DIAGRAM
FASCIA GIRDERS
(W. Of Concrete Only)



BILL OF MATERIAL

• BAR	NO.	SIZE	LENGTH	SHAPE
37a	356	#5	36'-9	
37a1	355	#5	37'-5	
37a2	355	#5	35'-5	
37a3	295	#4	3'-9	
37b	729	#5	34'-0	
37b1	96	#6	32'-6	
37b2	72	#4	29'-10	
37b3	68	#4	14'-9	
37b4	36	#4	29'-3	
37d	780	#5	3'-3	J
37d1	295	#4	1'-1	
37d2	590	#5	5'-6	J

• See Note X Sh. N# 25

ITEM	UNIT	TOTAL
Class 'X' Concrete	Cu. Yds.	298.5
Reinforcement Bars	Lbs.	79200
Protective Coat	Sq. Yds.	1348
Structural Steel *	Lbs.	351120

Notes:
For Notes and Misc. Details See Sh. N# 34.
For Parapet Reinf. & Joint Spacing See Sh. N# 55.
For Light Standard Anchorage Data See Sh. N# 45.
For Sections A-A & B-B See Sh. N# 131 & 132.

* Note:
Weight Of Bearing Assemblies With Load Plates And Anchor Bolts Are Included As Structural Steel.
Eqr. Art. 8.8.2

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

SLAB
SPANS C12 THRU C14

POPLAR STREET BRIDGE APPROACHES
ROADWAY "C"

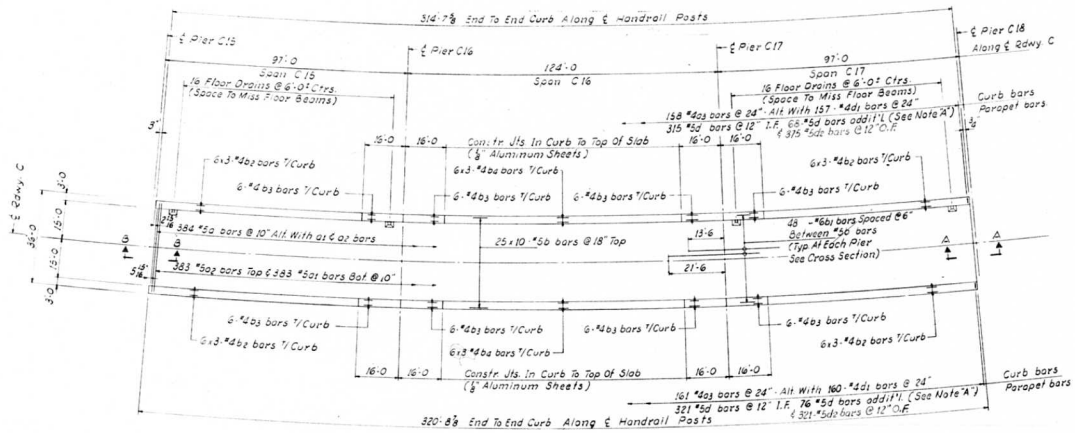
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

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

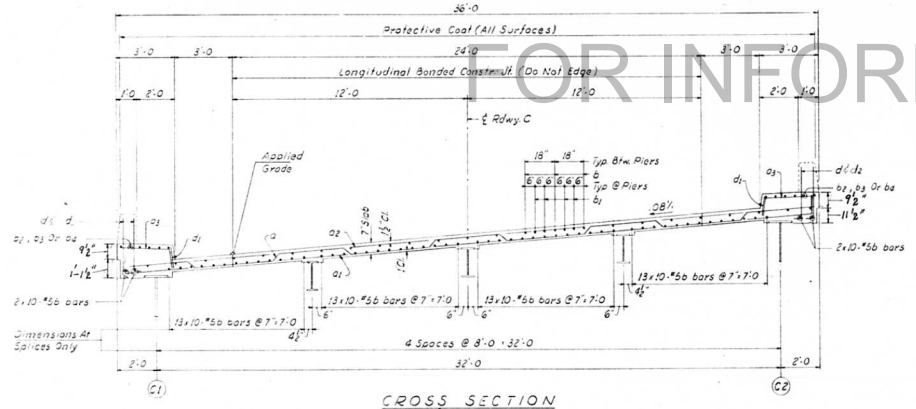
SHEET 37 OF 241

Y. RMD
GRAD
AC
Y. KA

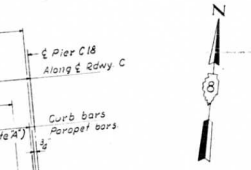
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	73
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

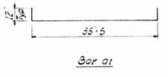


PLAN
SPANS C15 THRU C17



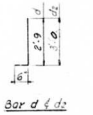
CROSS SECTION



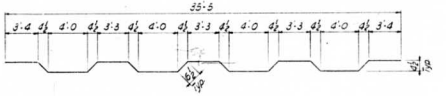


Bar a1

Bar a3



Bar d ℄ d2



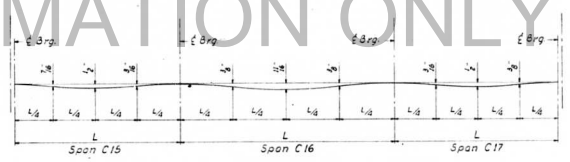
Bar a

BILL OF MATERIAL

•BAR	NO.	SIZE	LENGTH	SHAPE
38a	384	#5	36'-9	
38a1	383	#5	37'-5	
38a2	383	#5	35'-5	
38a3	319	#4	3'-9	
38b	810	#5	33'-0	
38b1	96	#6	35'-0	
38b2	72	#4	27'-11	
38b3	48	#4	15'-9	
38ba	36	#4	31'-8	
38d	720	#5	3'-3	
38d1	317	#4	1'-1	
38d2	636	#5	3'-6	

• See Note X Sh. N° 25

ITEM	UNIT	TOTAL
Class 'X' Concrete	Cu. Yds	321.8
Reinforcement Bars	Lbs.	85450
Protective Coat	Sq. Yds.	1410
Structural Steel *	Lbs.	391210



DEAD LOAD DEFLECTION DIAGRAM
FASCIA GIRDERS
(Wt. Of Concrete Only)

Notes:
For Notes and Misc. Details See Sh. N° 34.
For Parapet Reinf. & Joint Spacing See Sh. N° 56.
For Light Standard Anchorage Detail See Sh. N° 45.
For Sections A-A & B-B See Sh. N° 131 & 132.

* Note:
Weight Of Bearing Assemblies With Lead Plates And Anchor Bolts Are Included As Structural Steel. Est. Wt. 8642 Lbs.

DESIGNED BY R.M.R.
DRAWN BY GRATZ
CHECKED BY A.S.
APPROVED BY K.A.

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

SLAB
SPANS C15 THRU C17

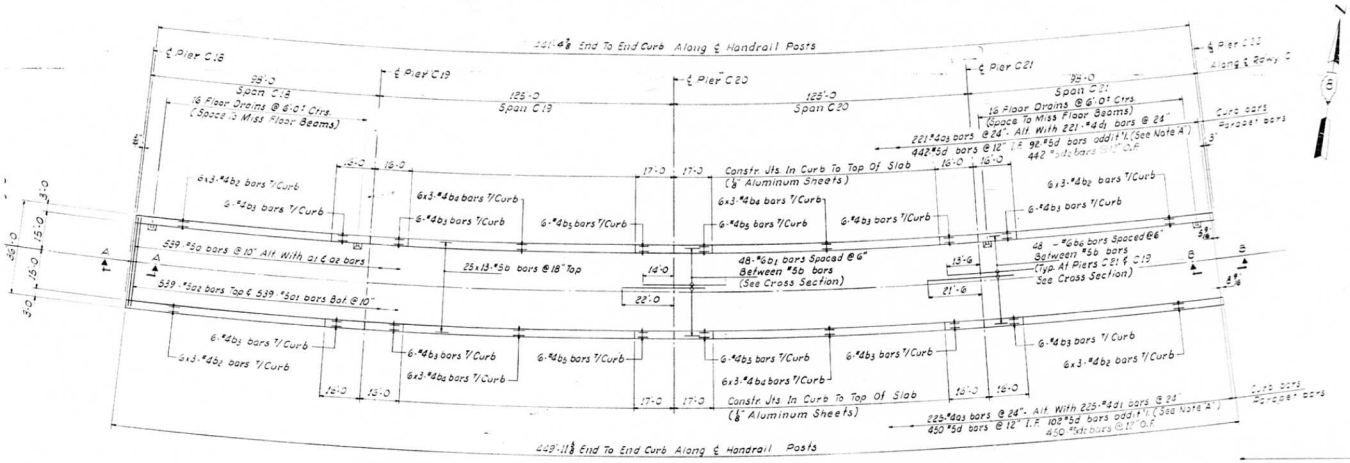
POPLAR STREET BRIDGE APPROACHES
ROADWAY "C"

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

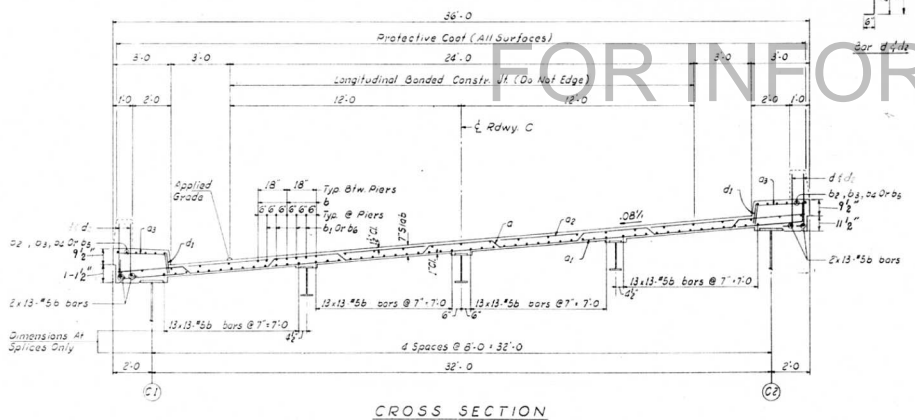
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 38 of 241

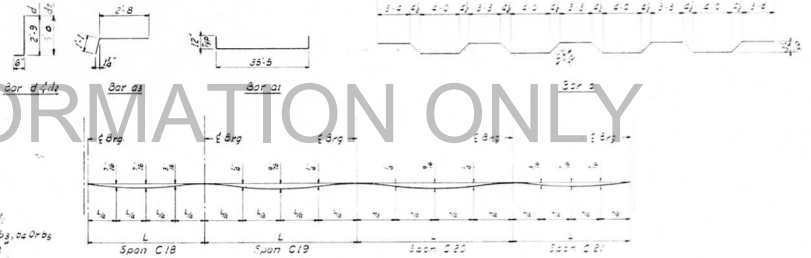
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F A I – 70	82–3HVB	ST. CLAIR	289	74
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



PLAN
SPANS C18 THRU C21



CROSS SECTION



DEAD LOAD DEFLECTION DIAGRAM
FASCIA GIRDERS
(Wt. Of Concrete Only)

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
39 a	539	#5	38'-9	
39 a1	539	#5	37'-8	
39 a2	539	#5	39'-8	
39 a3	442	#4	3'-9	
39 b	1055	#5	39'-1	
39 b1	48	#6	38'-0	
39 b2	72	#4	28'-2	
39 b3	48	#4	15'-9	
39 b4	72	#4	3'-9	
39 b5	24	#4	16'-9	
39 b6	96	#6	33'-0	
39 c	1086	#5	3'-3	
39 d1	648	#4	1'-1	
39 d2	216	#6	6	

* See Note A On N.P. 86

ITEM	UNIT	TOTAL
Class 'A' Concrete	Cu. Yds.	451.3
Reinforcement Bars	Lbs.	120,510
Protective Coat	Sq. Yds.	1976
Structural Steel *	Lbs.	57,310

Notes
For Notes and Misc. Details See Sh. N.P. 84
For Parapet Reinf'd. Joint Spacing See Sh. N.P. 87
For Light Standard Anchorages Data See Sh. N.P. 45
For Sections A-A & B-B See Sh. N.P. 131 & 132

* Note:
Weight Of Bearing Assemb. as W.T.S. Load Plates And Anchor Bolts Are Included As Structural Steel. Est. Wt. 12058 Lbs.

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

SLAB
SPANS C18 THRU C21

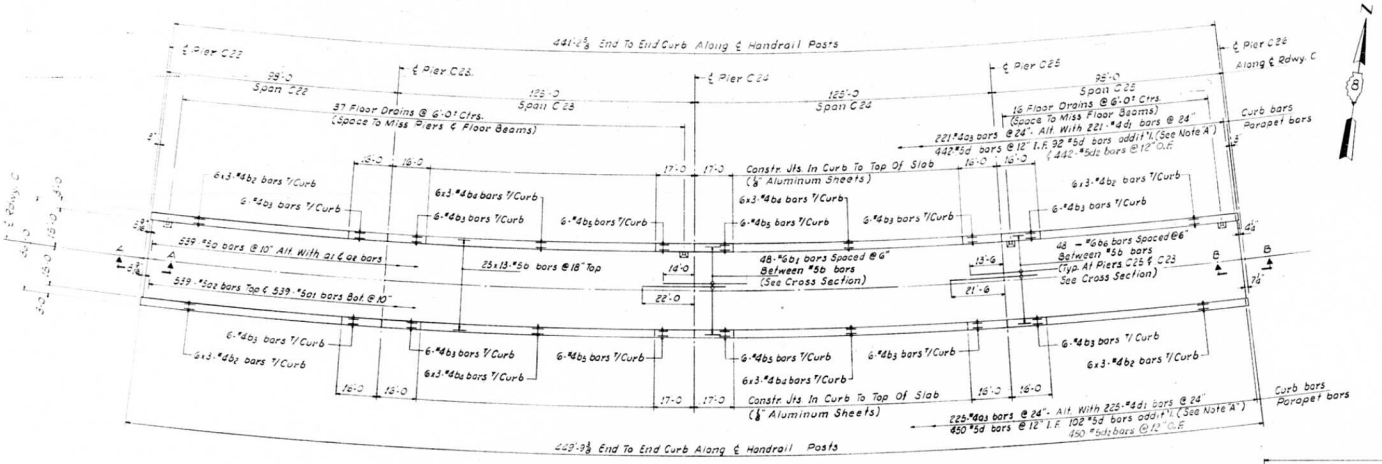
POPLAR STREET BRIDGE APPROACHES
ROADWAY "C"

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

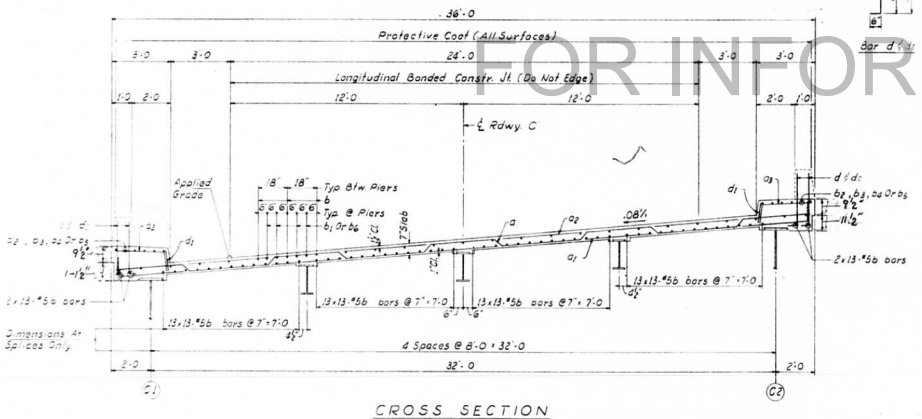
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 39 OF 241

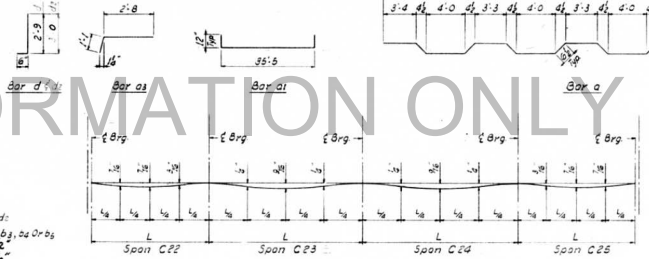
BY RM2
Y GRATZ
BY A2
BY KA



PLAN
SPANS C22 THRU C25



CROSS SECTION



DEAD LOAD DEFLECTION DIAGRAM
FASCIA GIRDERS
(Wt. Of Concrete Only)

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	75
FED. ROAD DIV. NO. 4		ILLINOIS PROJECT		

BILL OF MATERIAL

• BAR	NO.	SIZE	LENGTH	SHAPE
40 a	539	#5	36'-9	
40 a1	539	#5	37'-5	
40 a2	539	#5	35'-5	
40 a3	446	#4	3'-5	
40 b	1063	#5	36'-7	
40 b1	48	#6	36'-0	
40 b2	72	#4	28'-3	
40 b3	48	#4	15'-9	
40 b4	72	#4	31'-9	
40 b5	24	#4	16'-9	
40 b6	96	#6	35'-0	
40 d	1086	#5	3'-3	
40 d1	446	#4	1'-1	
40 d2	892	#5	3'-6	

• See Note X Sh. № 25

ITEM	UNIT	TOTAL
Class "X" Concrete	Cu. Yds.	451.0
Reinforcement Bars	Lbs.	120520
Protective Coat	Sq. Yds.	1976
Structural Steel *	Lbs.	570840

• Note:
Weight Of Bearing Assemblies With Cast Plates And Anchor Bolts Are Included As Structural Steel. Est. Wt. 12058 Lbs.

Notes:
For Notes and Misc. Details See Sh. № 34.
For Parapet Reinf. & Joint Spacing See Sh. № 58.
For Light Standard Anchorage Detail See Sh. № 45.
For Sections A-A & B-B See Sh. № 131 & 132.

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

SLAB
SPANS C22 THRU C25

POPLAR STREET BRIDGE APPROACHES
ROADWAY "C"

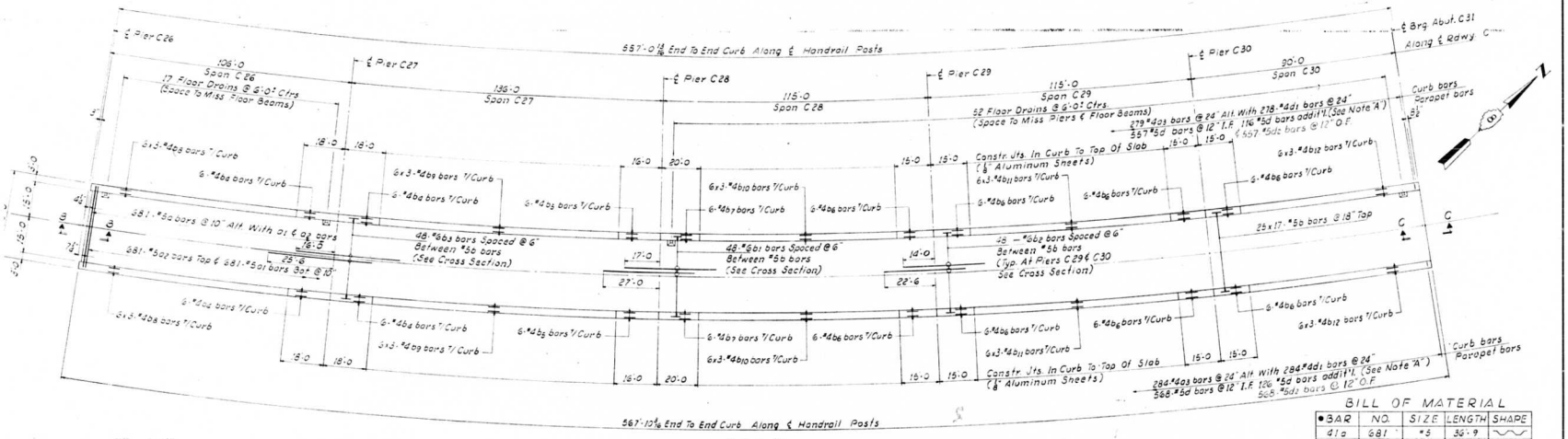
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

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

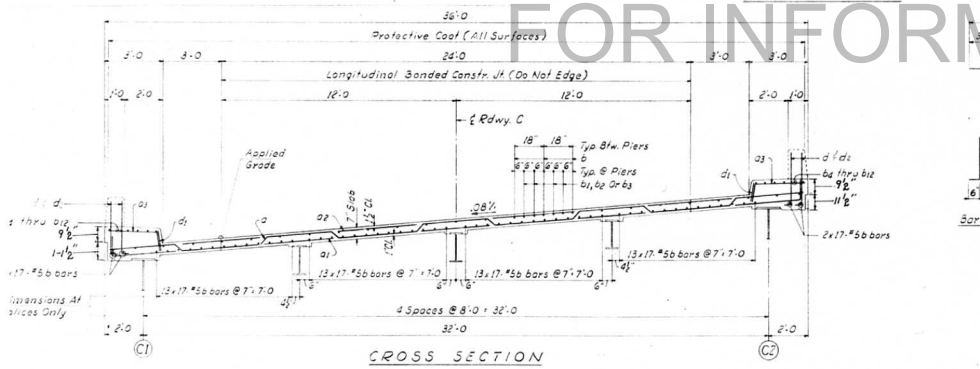
SHEET 40 OF 241

ED BY R.M.D.
BY GRATZ
ED BY T.S.
ED BY

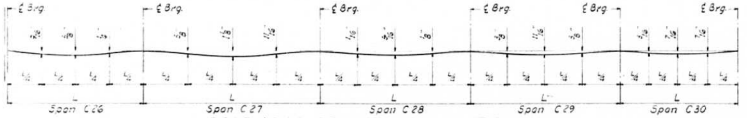
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I – 70	82–3HVB	ST. CLAIR	289	76
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	



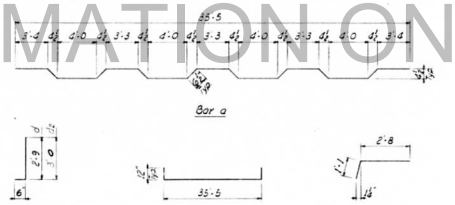
PLAN
SPANS C 26 THRU C 30



CROSS SECTION



DEAD LOAD DEFLECTION DIAGRAM
FASCIA GIRDERS (Wt. Of Concrete Only)



* Note:
Weight Of Bearing Assemblies With Load Plates And Anchor Bolts Are Included As Structural Steel.
Est. Wt. 15474 Lbs.

Notes:
For Notes and Misc. Details See Sh. № 34.
For Parapet Reinf. & Joint Spacing See Sh. № 59.
For Light Standard Anchorage Detail See Sh. № 45.
For Sections B-B & C-C See Sh. № 131 & 132.

BILL OF MATERIAL

• BAR	NO.	SIZE	LENGTH	SHAPE
41a	681	#5	36'-9	
41a1	681	#5	37'-5	
41a2	681	#5	35'-5	
41a3	588	#4	3'-9	
41b	1377	#5	34'-5	
41b1	48	#6	44'-0	
41b2	96	#6	36'-6	
41b3	48	#6	41'-6	
41b4	24	#4	17'-9	
41b5	12	#4	15'-9	
41b6	48	#4	14'-9	
41b7	12	#4	19'-9	
41b8	36	#4	30'-2	
41b9	36	#4	35'-0	
41b10	36	#4	27'-8	
41b11	36	#4	29'-4	
41b12	36	#4	25'-10	
41d2	1125	#5	3'-6	
41d	1367	#5	5'-3	
41d1	562	#4	1'-1	

• See Note X Sh. № 25

ITEM	UNIT	TOTAL
Class 'X' Concrete	Cu. Yds.	569.8
Reinforcement Bars	Lbs.	154 040
Protective Coat	Sq. Yds.	2497
Structural Steel •	Lbs.	829 270

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

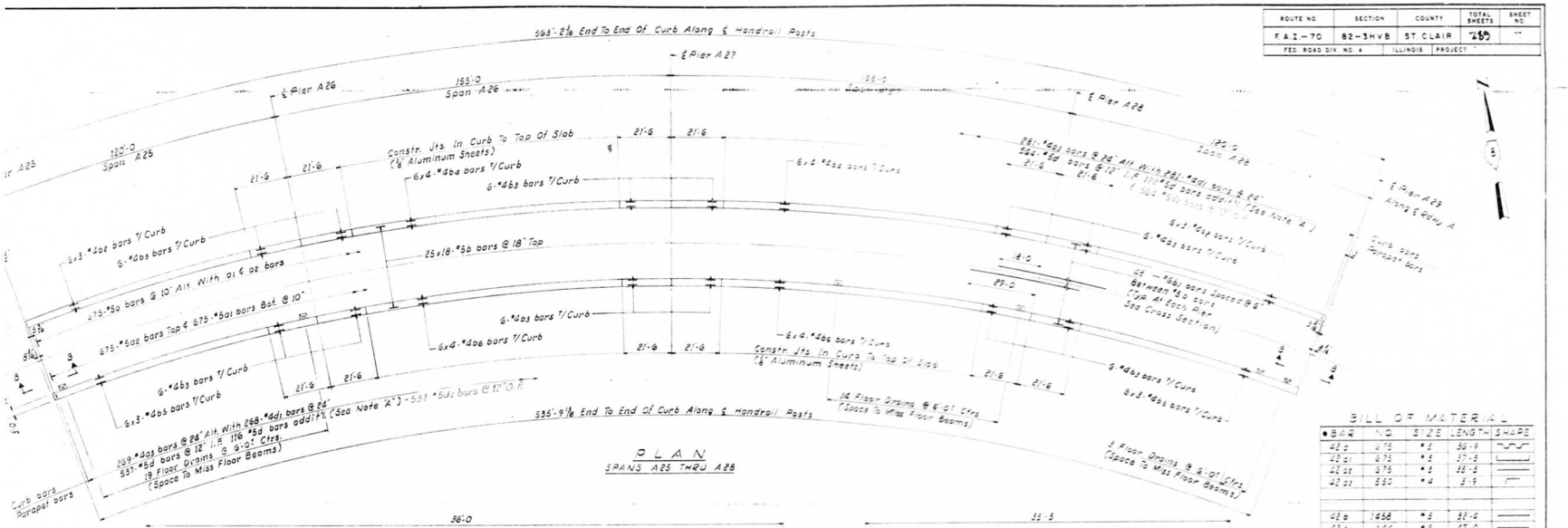
SLAB
SPANS C26 THRU C30
POPLAR STREET BRIDGE APPROACHES
ROADWAY "C"

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

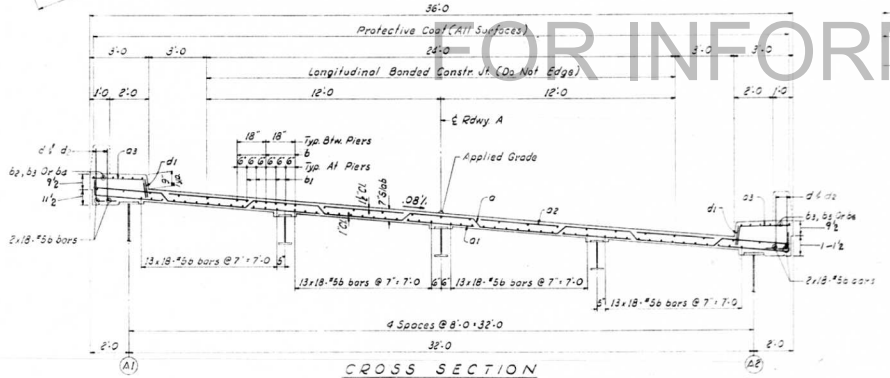
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 41 OF 241

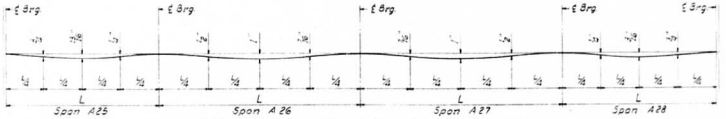
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82-3HVB	ST. CLAIR	250	—
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



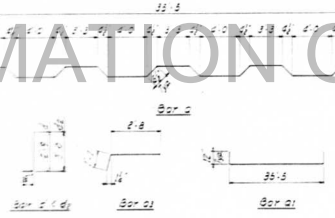
PLAN
SPANS A25 THRU A28



CROSS SECTION



DEAD LOAD DEFLECTION DIAGRAM
FASCIA GIRDERS (Wt. Of Concrete Only)



BILL OF MATERIAL

*BAR	NO.	SIZE	LENGTH	SHAPE
a3 c	270	#3	36'-9	
a3 c1	270	#3	17'-6	
a3 a2	270	#3	18'-6	
a3 a1	540	#4	8'-9	
a3 e	1458	#3	32'-4	
a3 b1	144	#6	67'-0	
a3 b2	36	#4	36'-3	
a3 d2	72	#4	21'-3	
a3 d	48	#4	29'-9	
a3 a3	36	#4	32'-3	
a3 b4	48	#4	27'-9	
a3 d1	1332	#3	8'-3	
a3 d3	5469	#4	7'-11	
a3 a4	1107	#3	5'-6	
*See Note X Sh. No. 25				

ITEM	UNIT	TOTAL
Class 'X' Concrete	Cu. Yds.	960.3
Reinforcement Bars	Lbs.	151,480
Protective Coat	Sq. Yds.	2,431
Structural Steel *	Lbs.	102,890

Notes:
For Notes and Misc. Data & See Sh. No. 24.
For Parapet Reinf. & Joint Spacing See Sh. No. 60.
For Light Standard Anchorage Detail See Sh. No. 45.
For Section B-B See Sh. No. 81.

* Note:
Weight Of Bearing Assemblies With Load Plates And Anchor Bolts Are Included As Structural Steel
Est. Wt. 13830 Lbs.

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

SLAB
SPANS A25 THRU A28
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

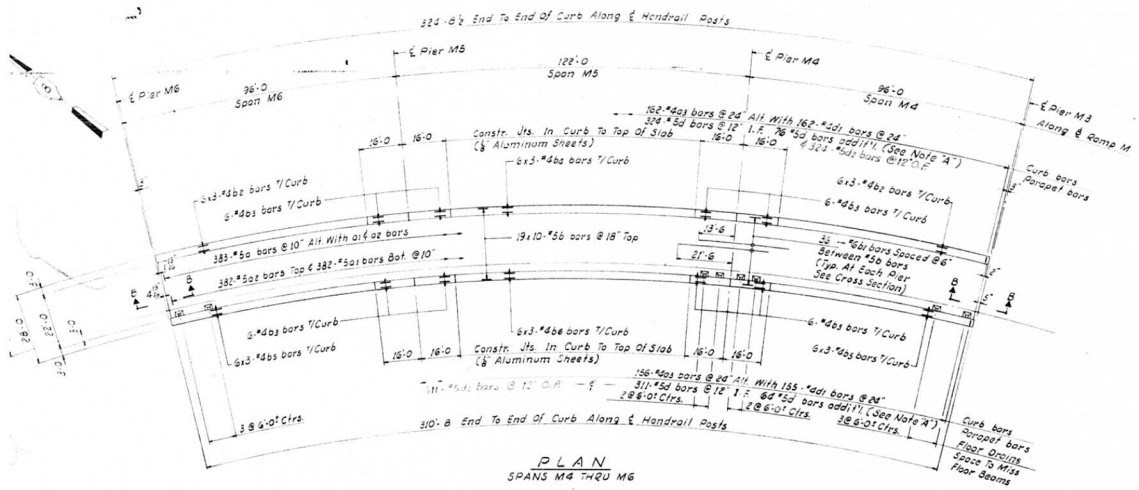
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

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

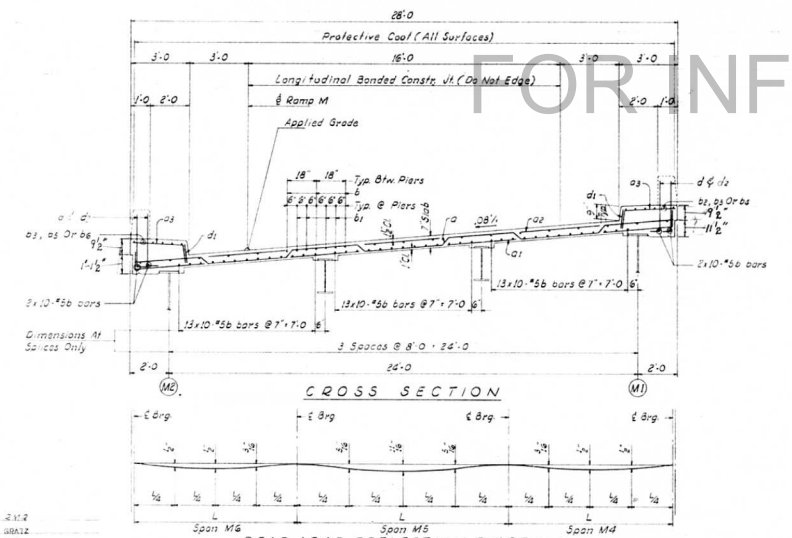
SHEET 42 OF [illegible]

DRWN
GRATZ
CKD
CHKD

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	78
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

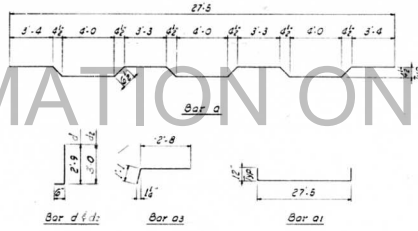


PLAN
SPANS M4 THRU M6



CROSS SECTION

DEAD LOAD DEFLECTION DIAGRAM
FASCIA GIRDERS (Wt. Of Concrete Only)



BILL OF MATERIAL

•BAR	NO.	SIZE	LENGTH	SHAPE
a3 a	383	#5	28'-5	
a3 a1	382	#5	29'-6	
a3 a2	382	#5	27'-5	
a3 a3	318	#4	3'-9	
a3 b	620	#5	33'-6	
a3 b1	72	#6	35'-0	
a3 b2	36	#4	28'-4	
a3 b3	48	#4	15'-9	
a3 b4	18	#4	32'-0	
a3 b5	36	#4	26'-11	
a3 b6	18	#4	30'-3	
a3 d	775	#5	3'-3	
a3 d1	317	#4	1'-1	
a3 d2	635	#5	3'-6	

•See Note X Sh. Nº 25

ITEM	UNIT	TOTAL
Class "X" Concrete	Cu. Yds.	273.8
Reinforcement Bars	Lbs.	66060
Protective Coat	Sq. Yds.	1130
Structural Steel *	Lbs.	382 660

Notes:
For Notes and Misc. Details See Sh. Nº 34.
For Parapet Reinf. & Joint Spacing See Sh. Nº 61.
For Light Standard Anchorage Detail See Sh. Nº 45.
For Section B-B see Sh. Nº 131.

* Note:
Weight Of Bearing Assemblies With Lead Plates And Anchor Bolts Are Included As Structural Steel. Est. Wt. 8336 Lbs.

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

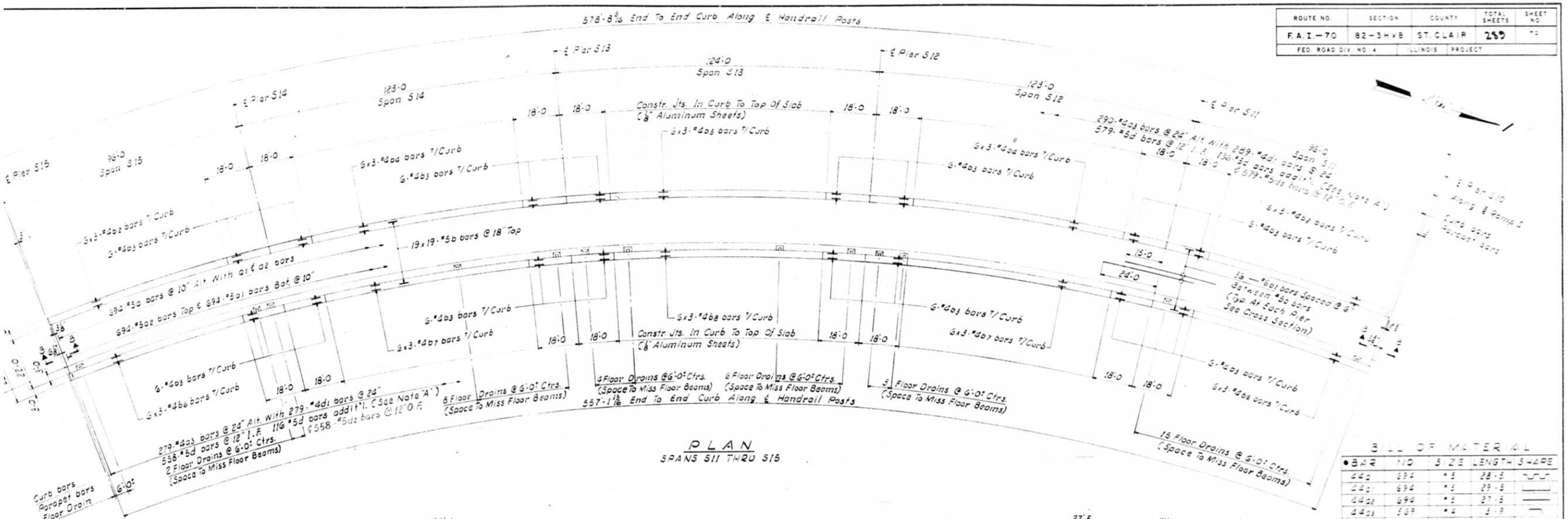
SLAB
SPANS M4 THRU M6
POPLAR STREET BRIDGE APPROACHES
RAMP "M"

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

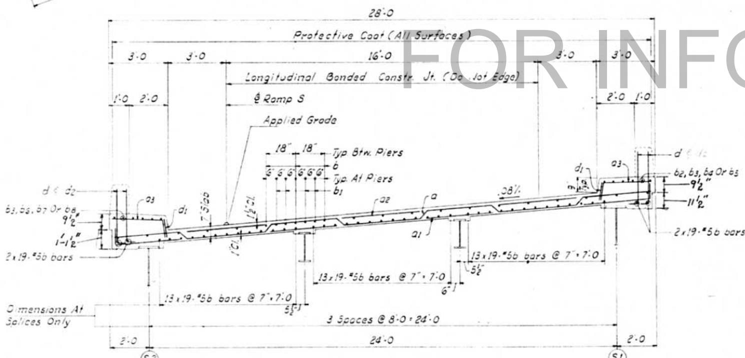
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 43 of 241

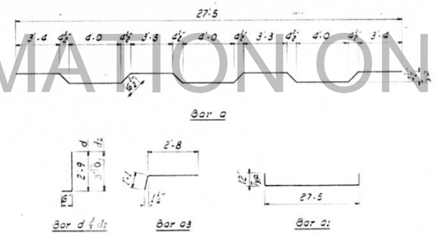
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	79
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



PLAN
SPANS S11 THRU S15



CROSS SECTION



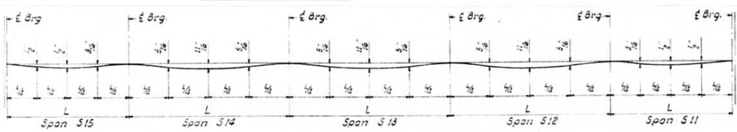
BILL OF MATERIAL

• BAR	NO.	SIZE	LENGTH	SHAPE
44a	694	#5	28'-5	
44a1	694	#5	29'-5	
44a2	694	#5	27'-5	
44a3	559	#4	[illegible]	
44b	1178	#5	31'-6	
44b1	144	#5	39'-0	
44b2	36	#4	27'-6	
44b3	96	#4	17'-9	
44b4	36	#4	30'-10	
44b5	18	#4	31'-2	
44b6	36	#4	26'-2	
44b7	36	#4	29'-1	
44b8	18	#4	29'-7	
44d1	1157	#5	3'-6	
44d	[illegible]	#5	[illegible]	
44d1	558	#4	[illegible]	

• See Note X Sh. Nº 25

ITEM	UNIT	TOTAL
Class "X" Concrete	Cu. Yds.	2889
Reinforcement Bars	Lbs.	124 350
Protective Coat	Sq. Yds.	2020
Structural Steel •	Lbs.	701 620

Notes:
For Notes and Misc. Data's See Sh. Nº 34
For Parapet Reinf. & Joint Spacing See Sh. Nº 62
For Light Standard Anchorage Data See Sh. Nº 45
For Section B-B See Sh. Nº 13



DEAD LOAD DEFLECTION DIAGRAM
FASCIA GIRDERS (Wt. Of Concrete Only)

Note:
• Weight Of Bearing Assemblies With Lead Plates And Anchor Bolts Are Included As Structural Steel. Est. Wt. 15168 Lbs.

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

SLAB
SPANS S11 THRU S15

POPLAR STREET BRIDGE APPROACHES
RAMP "S"

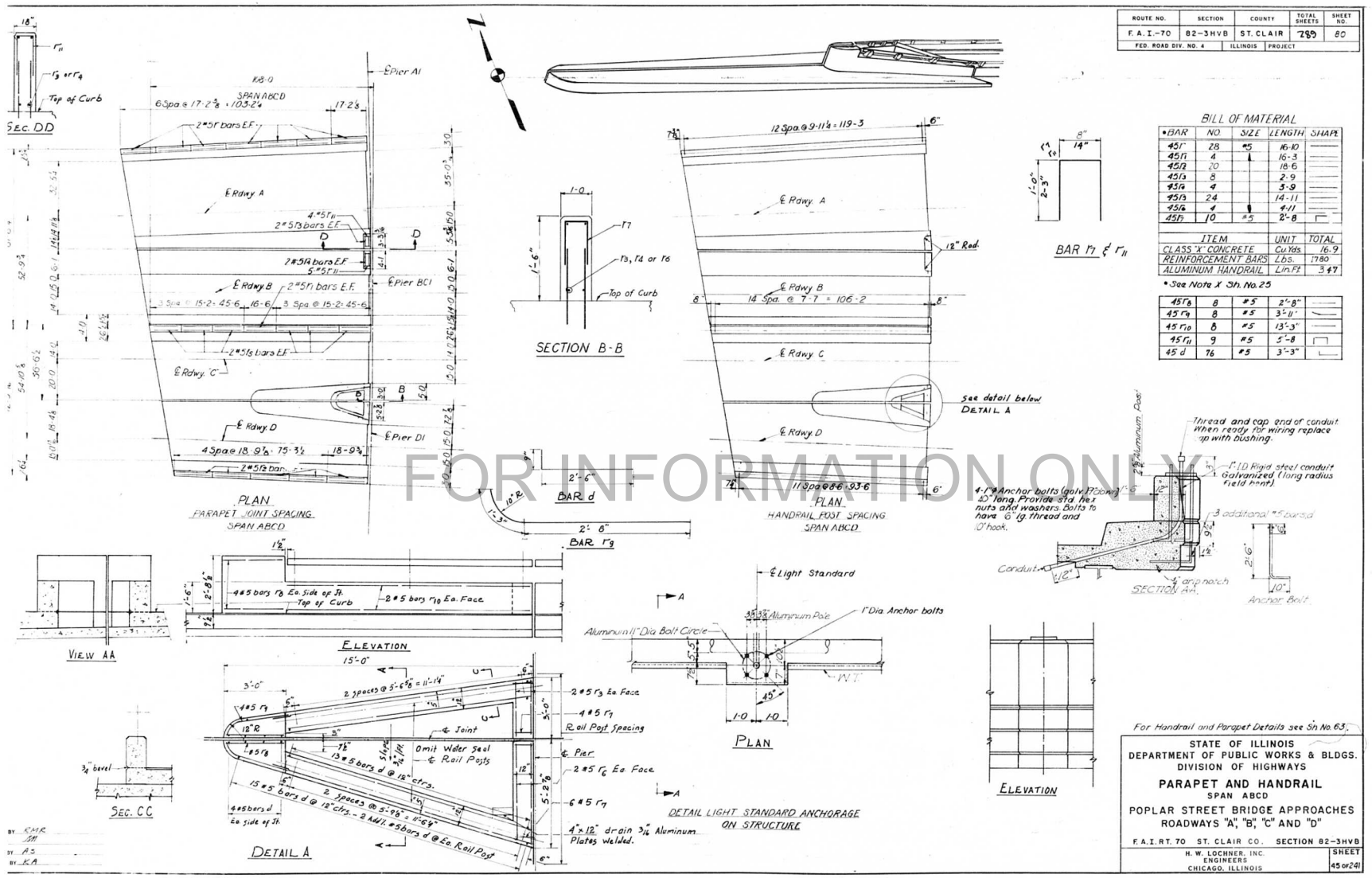
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

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

SHEET 44 OF 241

BY Z.Y.Z.
BY GRATZ
BY A.S.
BY K.A.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I.-70	82-3HVB	ST. CLAIR	289	80
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



BILL OF MATERIAL

• BAR	NO.	SIZE	LENGTH	SHAPE
45 r1	28	#5	16-10	
45 r2	4		16-3	
45 r3	20		18-6	
45 r3	8		2-9	
45 r4	4		3-9	
45 r5	24		14-11	
45 r6	4		4-11	
45 r7	10	#5	2'-8	

ITEM	UNIT	TOTAL
CLASS 'X' CONCRETE	Cu Yds	16.9
REINFORCEMENT BARS	Lbs.	1780
ALUMINUM HANDRAIL	Lin Ft	347

• See Note X Sh. No. 25

45 r8	8	#5	2'-8"	
45 r9	8	#5	3'-11"	
45 r10	8	#5	13'-3"	
45 r11	9	#5	5'-8	
45 d	76	#5	3'-3"	

BY KMR
BY SM
BY AS
BY KA

For Handrail and Parapet Details see Sh. No. 63.

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

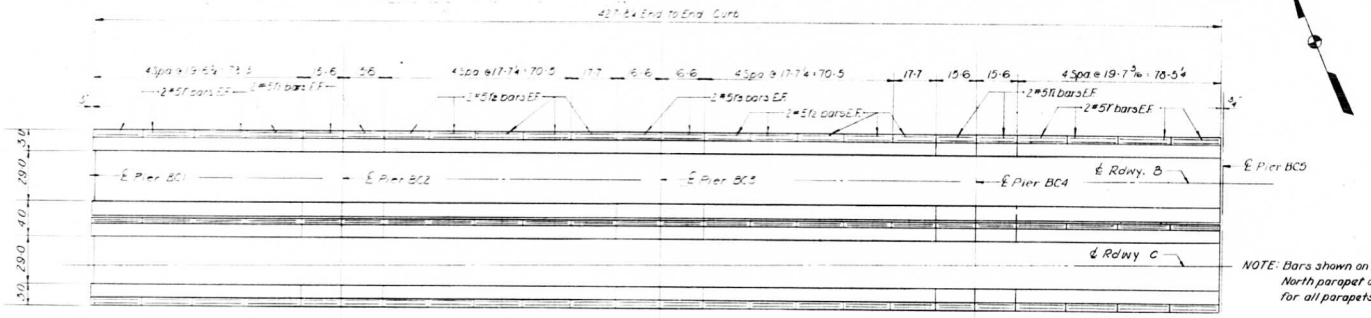
PARAPET AND HANDRAIL
SPAN ABCD
POPLAR STREET BRIDGE APPROACHES
ROADWAYS "A", "B", "C" AND "D"

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

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

SHEET 45 of 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I.-70	82-3HVB	ST. CLAIR	285	81
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT.	



NOTE: Bars shown on Plan for North parapet are typical for all parapets.

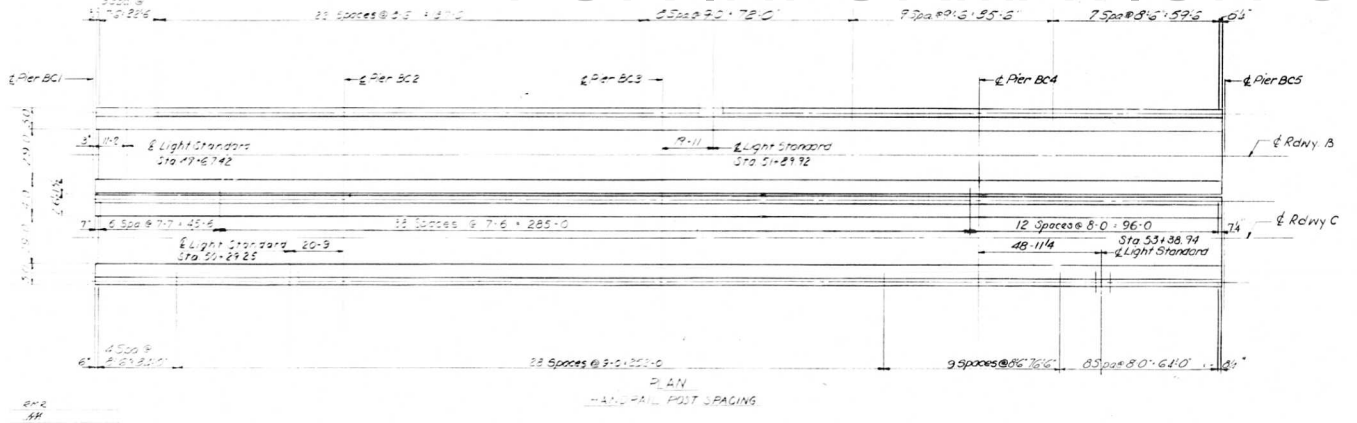
BILL OF MATERIAL

*BAR	NO.	SIZE	LENGTH	SHAPE
46F	96	#3	19-3	
46G	48		15-2	
46H	120		17-3	
46J	24	#5	16-2	

ITEM	UNIT	TOTAL
CLASS 'A' CONCRETE	Cu.Yds.	67.3
REINFORCEMENT BARS	Lbs.	5150
ALUMINUM HANDRAIL	Lin.Ft.	1284

*See Note 'Y' Sh. No. 25

PLAN
PARAPET JOINT SPACING
SPANS BC1 THRU BC4



PLAN
HAND RAIL POST SPACING

Notes:
For Detail of Light Std. see Sh. No. 45.
For Handrail and Parapet Joint Details see Sh. No. 63.

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

PARAPET AND HANDRAIL
SPANS BC1 THRU BC4
POPLAR STREET BRIDGE APPROACHES
ROADWAYS "B" AND "C"

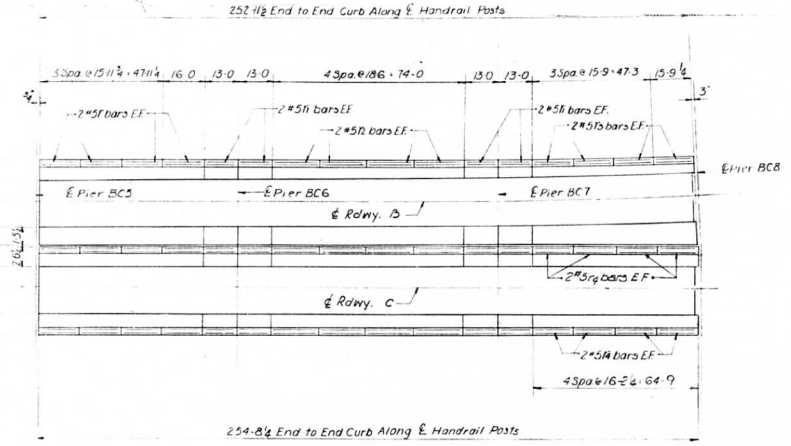
F. A. I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

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

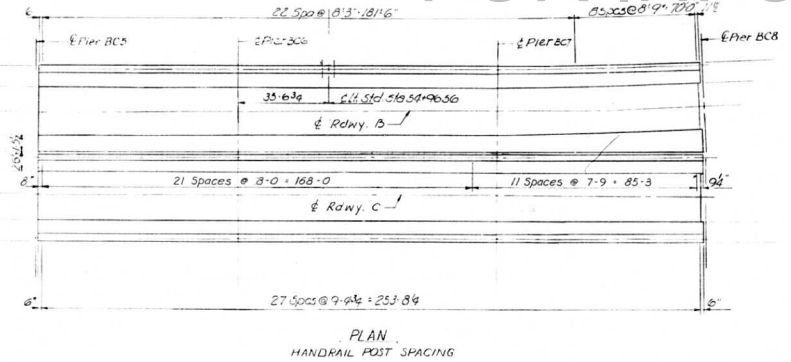
SHEET 46 OF 241

BM 2
MH
AS
KA

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I.-70	82-3HVB	ST. CLAIR	283	82
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



PLAN
PARAPET JOINT SPACING
SPANS BC5 THRU BC7



PLAN
HANDRAIL POST SPACING

BILL OF MATERIAL

• BAR	NO.	SIZE	LENGTH	SHAPE
47f	48	#5	15-8	
47h	48	#5	12-8	
47i2	48	#5	18-2	
47i3	16	#5	15-5	
47i4	32	#5	15-10	

ITEM	UNIT	TOTAL
CLASS "X" CONCRETE	Cu. Yds.	40
REINFORCEMENT BARS	Lbs.	3110
ALUMINUM HANDRAIL	Lin. Ft.	762

• See Note X Sh. No. 25

Note: Bars shown on plan for North parapet are typical for Spans BC5 & BC6. All dimensions in plan are along ℄ of post.

Notes:
For Detail at Light Std. see Sh. No. 45.
For Handrail and Parapet Joint Details see Sh. No. 63.

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

PARAPET AND HANDRAIL

SPANS BC5, BC6, B7 AND C7
POPLAR STREET BRIDGE APPROACHES
ROADWAYS "B" AND "C"

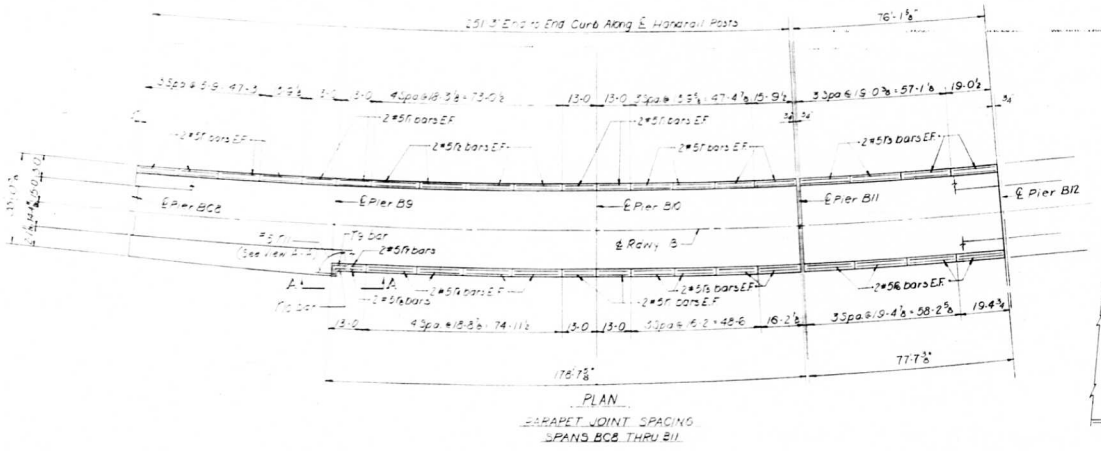
F. A. I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

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

SHEET 47 OF 241

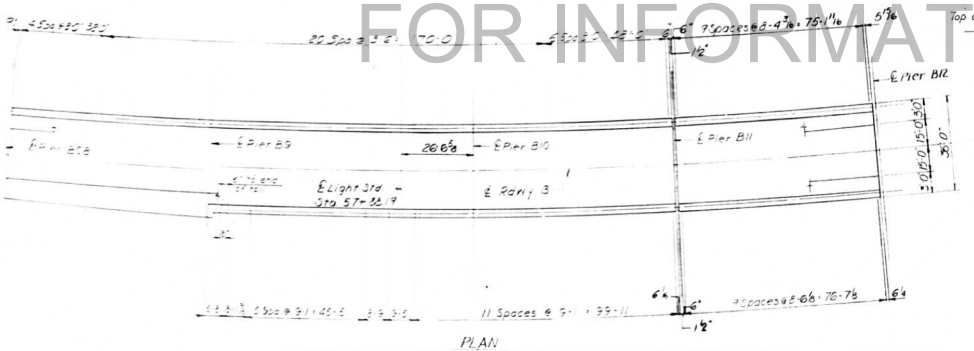
BY EMR
BY MH
BY AS
BY KA

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.–70	82–3HVB	ST. CLAIR	289	63
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



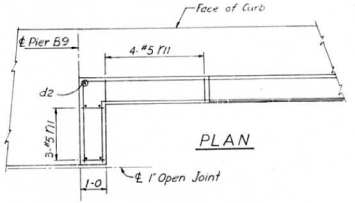
PLAN

PARAPET JOINT SPACING
SPANS B8 THRU B11

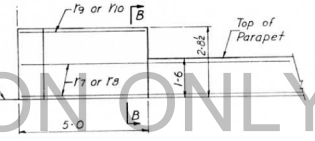


PLAN

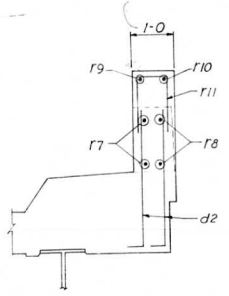
HANDRAIL POST SPACING



PLAN



VIEW A-A



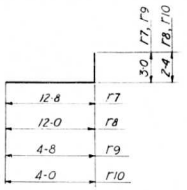
SECTION B-B

BILL OF MATERIAL

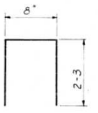
•BAR	NO.	SIZE	LENGTH	SHAPE
48r	32	#5	15-3	
48r1	24	1	12-8	
48r2	16		17-11	
48r3	16		18-8	
48r6	16		18-2	
48r3	16		15-10	
48r6	16		19-1	
48r7	2		15-8	
48r8	2		14-4	
48r9	1		7-8	
48r10	1		6-4	
48r11	7	#5	5-2	

ITEM	UNIT	TOTAL
Class 'X' Concrete	Cu. Yds.	34.7
Reinforcement bars	lbs.	2440
Aluminum Handrail	lin. ft.	592

• See Note K Sh. No. 25



BARS r7, r8, r9, r10



BAR r11

Notes:
For Detail at Light Std. see Sh. No 45.
For Handrail and Parapet Joint Details see Sh. No. 63.

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

PARAPET AND HANDRAIL
SPANS B8 THRU B11

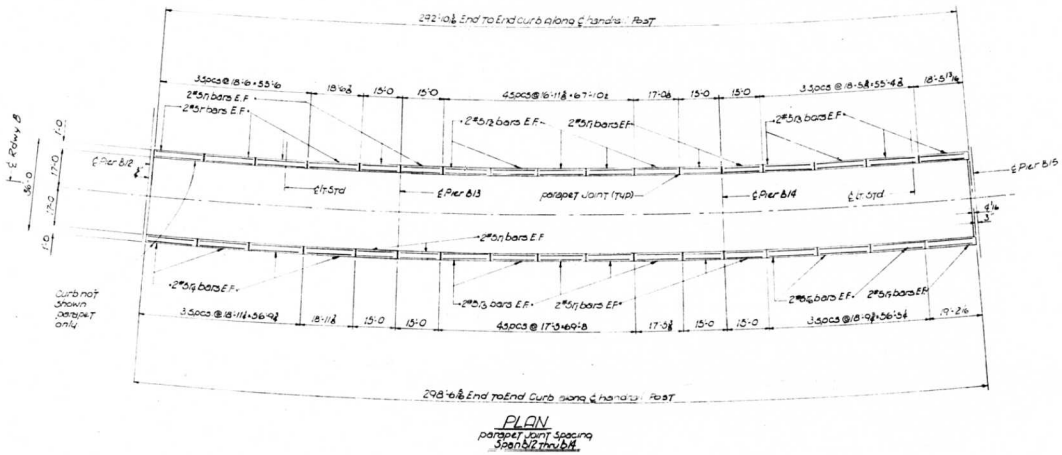
POPLAR STREET BRIDGE APPROACHES
ROADWAY "B"

F.A.I. RT. 70 ST. CLAIR CO. SECTION 82–3HVB

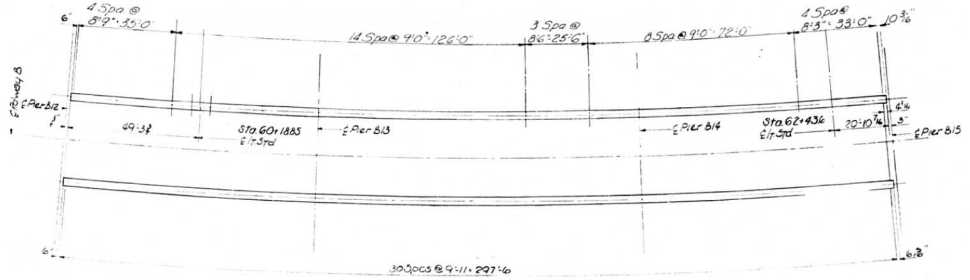
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 48 OF 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	239	84
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	



PLAN
parapet Joint Spacing
Spans B12 thru B14



PLAN
handrail Post Spacing

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
49F	16	#5	15'-2	
49H	32	1	14'-8	
49I2	20		6'-7	
49I3	16	1	6'-7	
49I4	16		8'-7	
49I8	20		7'-1	
49I6	12	1	18'-5	
49I9	2	#5	18'-10	

ITEM	UNIT	Total
Class 'X' Concrete	Cu Yds	30.1
Reinforcement bars	lbs	2420
Aluminum handrail	Lin Ft	598

• See Note X Sh No 25

(Note) All dimensions ⊥ parapet are along ℄ of post

Note:
For Detail of Light Std see Sh. No. 45.
For Handrail and Parapet Joint Details see Sh. No. 63.

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

PARAPET AND HANDRAIL
SPANS B12 THRU B14
POPLAR STREET BRIDGE APPROACHES
ROADWAY "B"

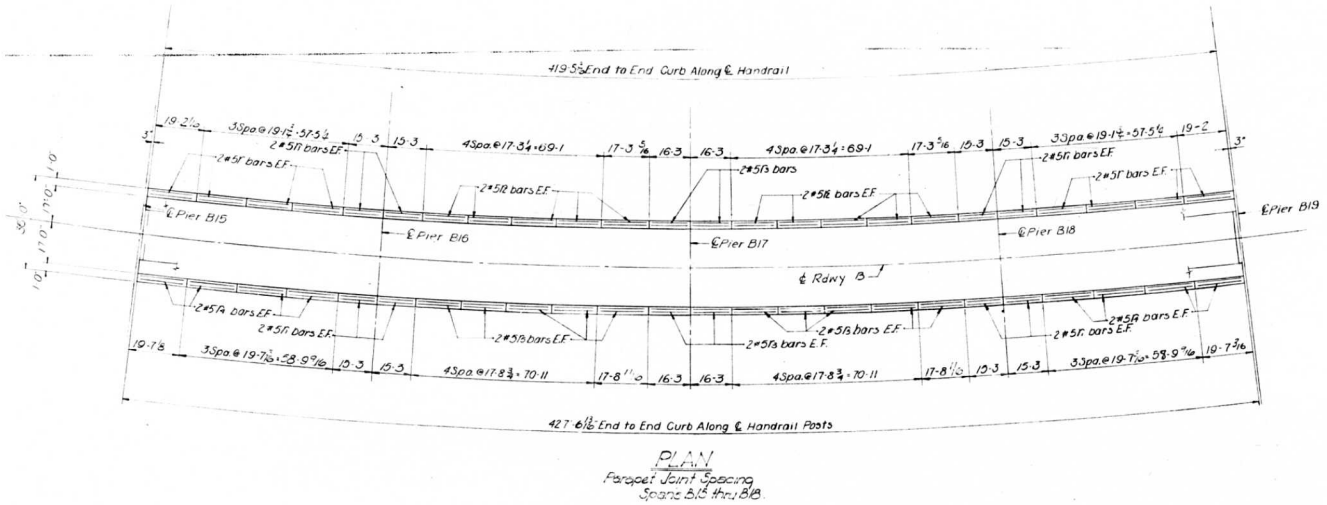
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

H. W. LOCHNER INC.
ENGINEERS
CHICAGO, ILLINOIS

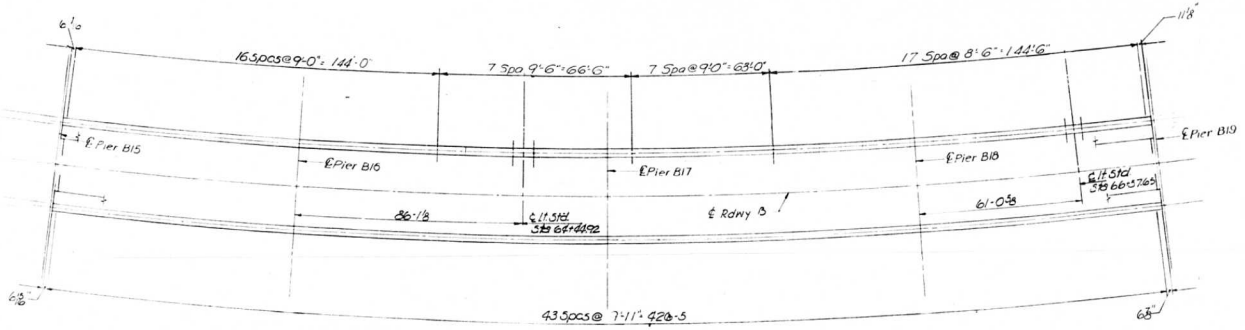
SHEET 49 OF 241

BY RMR
BY PL
BY AS
BY KA

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	285	85
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT .	



PLAN
Parapet Joint Spacing
Spans B15 thru B18



PLAN
Handrail Post Spacing

BILL OF MATERIAL

•BAR	NO.	SIZE	LENGTH	SHAPE
5f1	32	#5	18'-10	
5f1	32		14'-11	
5f2	40		16'-11	
5f3	16		15'-11	
5f1	32		19'-3	
5f3	40	#5	17'-4	

ITEM	UNIT	TOTAL
CLASS "A" CONCRETE	Cu Yds.	43
REINFORCEMENT BARS	Lbs.	3160
ALUMINUM HANDRAIL	Lin Ft	848

• See Note 4 Sh. No. 25

Note:
All dimensions in plan are along ℄ of Post

Notes:
For Detail at light Std. see Sh. No. 45.
For Handrail and Parapet Joint Details see Sh. No. 53.

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

PARAPET AND HANDRAIL
SPANS B15 THRU B18
POPLAR STREET BRIDGE APPROACHES
ROADWAY "B"

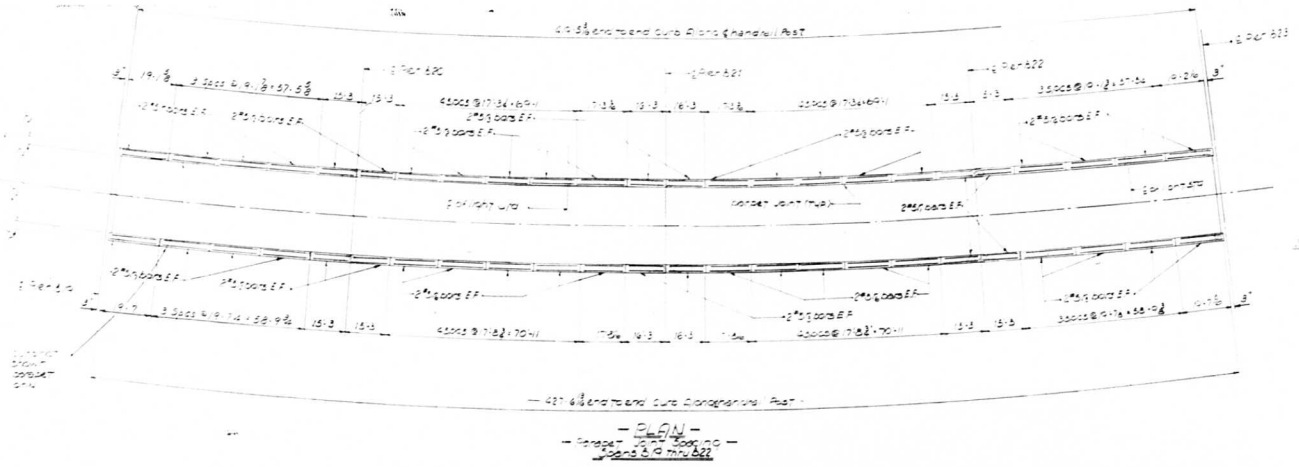
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

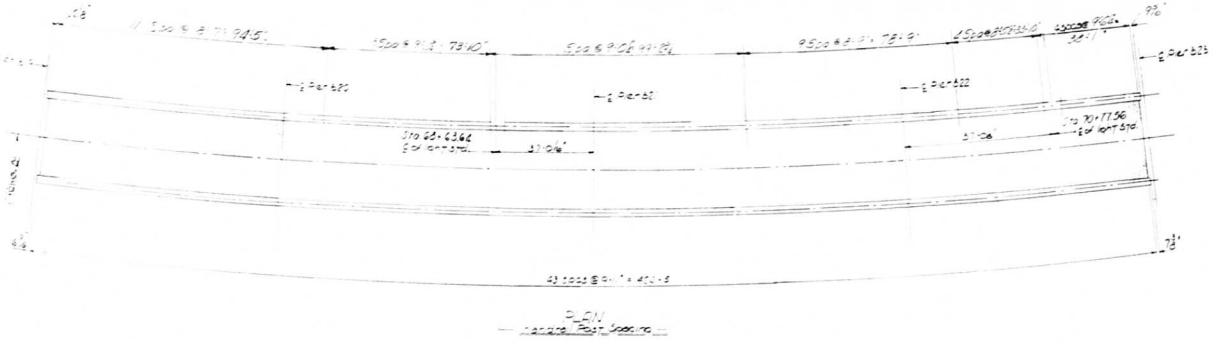
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 50 OF 241

D BY RMR
BY JGH
BY AS
D BY FA

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I—70	82-3HVB	ST. CLAIR	289	86
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		





BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
51*	16	#5	18-10	
51*	32		14-11	
51*	40		16-11	
51*	16		15-11	
51*	16		18-9	
51*	16		19-3	
51*	40		17-5	
51*	16	#5	19-4	

ITEM	UNIT	TOTAL
Class X Concrete	Cu yds	431
Reinforcement bars	lbs	3470
Aluminum handrail	lin. Ft	848

* See Note X Sh. No. 25

X For dimensions in Plan are along ℄ of Post

Notes:
For Detail of light Std. see Sh. No. 45.
For Handrail and Parapet Joint Details see Sh. No. 63.

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

PARAPET AND HANDRAIL

SPANS B19 THRU B22

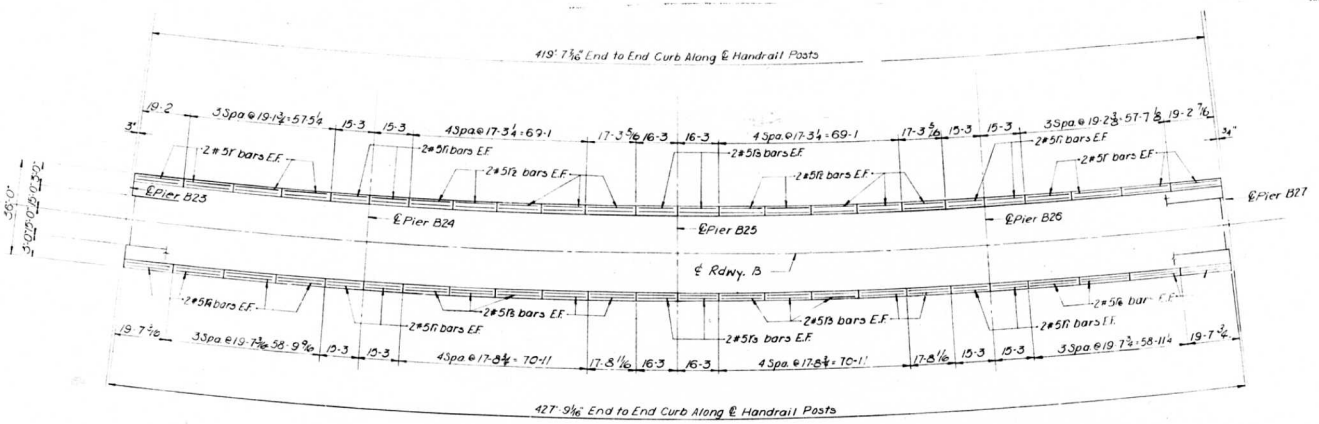
POPLAR STREET BRIDGE APPROACHES
ROADWAY "B"

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

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

SHEET 51 of 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	87
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



PLAN
SPANS B23 THRU B26
PARAPET JOINT SPACING

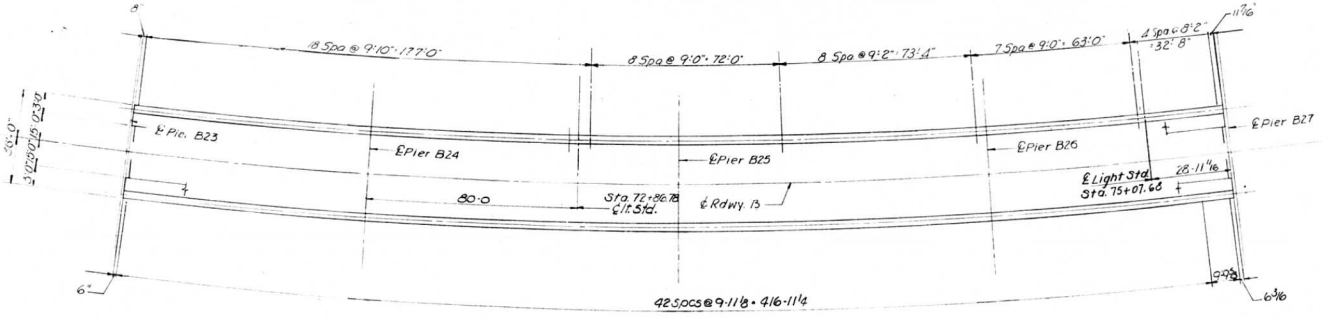
BILL OF MATERIAL

•BAR	NO.	SIZE	LENGTH	SHAPE
52f	32	#5	18-10	
52f1	32		14-11	
52f2	40		16-11	
52f3	16		15-11	
52f4	16		19-3	
52f5	40		17-4	
52f6	16	#5	19-4	

ITEM	UNIT	TOTAL
CLASS 'Y' CONCRETE	Cu Yds.	43.2
REINFORCEMENT BARS	Lbs.	3400
ALUMINUM HANDRAIL	Lin. Ft.	848

• See Note 1 Sh. No. 85

Note: All dimensions in plan are along ℄ or post



PLAN
Handrail Post Spacing
Spans B23 thru B26

Notes:
For Detail at Light Std. see Sh. No. 45.
For Handrail and Parapet Joint Details see Sh. No. 83.

D BY RMR
BY SM
D BY AS
ED BY KA

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

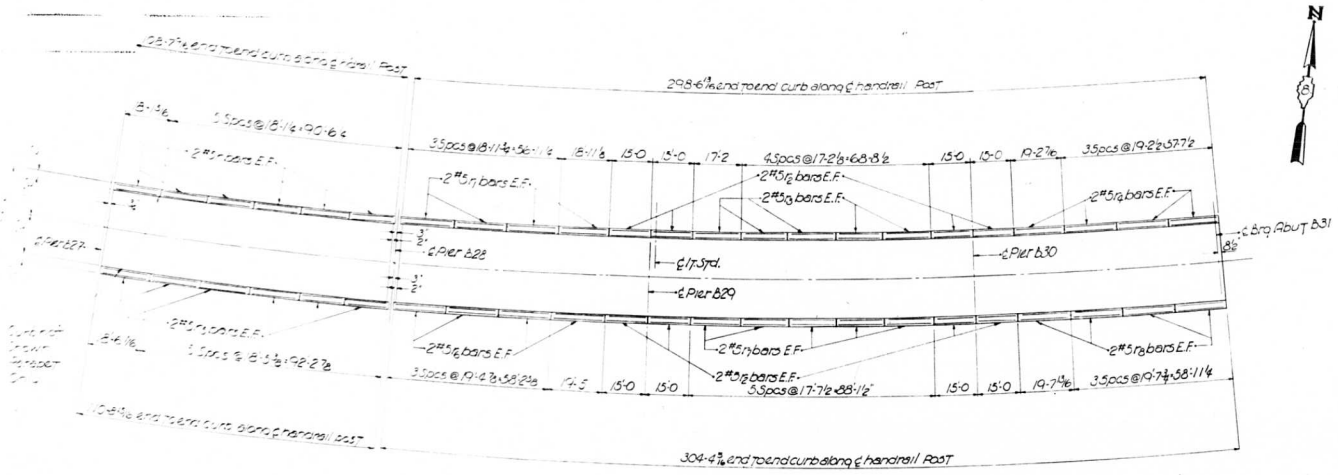
PARAPET AND HANDRAIL
SPANS B23 THRU B26
POPLAR STREET BRIDGE APPROACHES
ROADWAY "B"

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

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

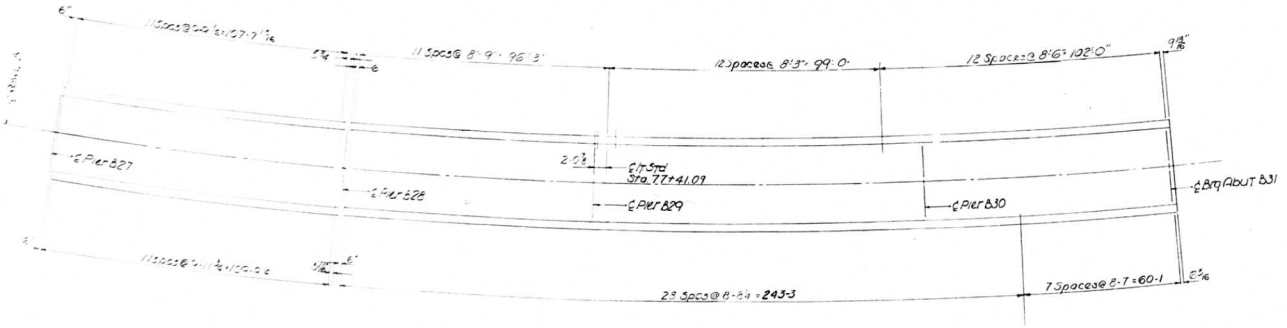
SHEET 52 of 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I.–70	82–3HVB	ST. CLAIR	289	88
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	



PLAN

Parapet Joint Spacing
Spans B27 thru B30



PLAN

Handrail Post Spacing

BILL OF MATERIAL

• BAR	NO.	SIZE	LENGTH	SHAPE
53/5	24	#5	17-9	
53/5	16		18-7	
53/2	32		16'-8	
53/3	20		16-10	
53/4	16		18-10	
53/3	24		18-1	
53/6	16		17-5	
53/7	20	#5	17-3	
53/8	16	#5	19-3	

ITEM	UNIT	Total
Class X Concrete	Cu Yds.	6.19
Reinforcement bars	lbs.	3360
Aluminum handrail	lin FT.	623

• See Note X Sh No 25

Note: All dimension in plan are along ℄ of post

Notes:

For Detail at Light Std. see Sh. No 45.
For Handrail and Parapet Joint Details see Sh. No. 63.

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

PARAPET AND HANDRAIL

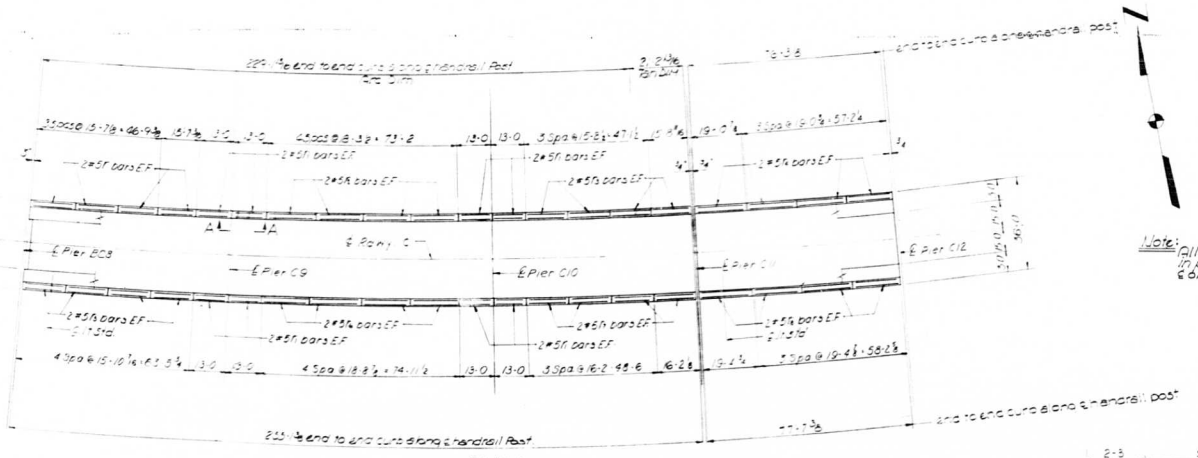
SPANS B27 THRU B30
POPLAR STREET BRIDGE APPROACHES
ROADWAY "B"

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

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

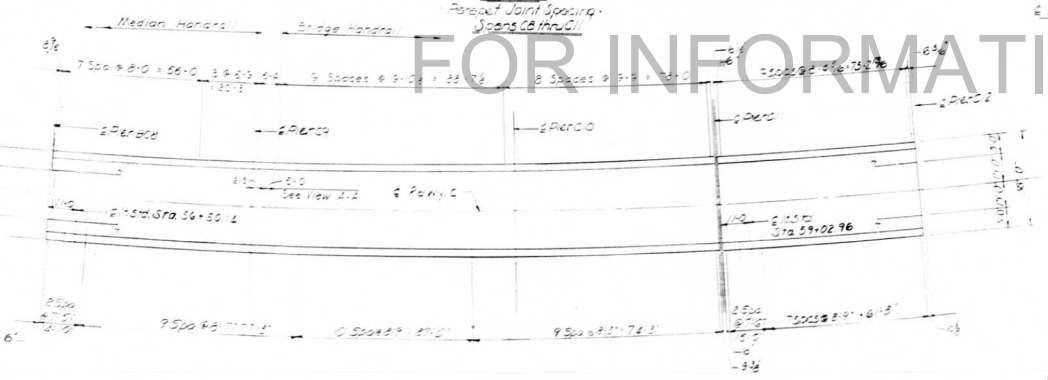
SHEET 53 of 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.–70	82–3HVB	ST. CLAIR	285	89
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	



PLAN

Parapet Joint Spacing
Spans C8 thru C11



PLAN

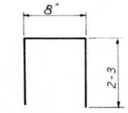
HANDRAIL POST SPACING

BILL OF MATERIAL

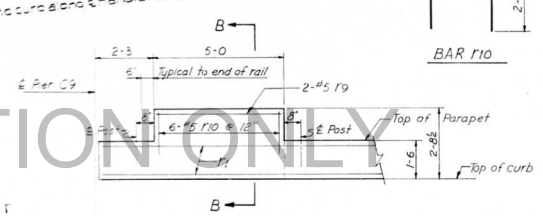
*BAR	NO.	SIZE	LENGTH	SHAPE
541C	16	#5	15-3	
541D	32		12-8	
541E	16		17-11	
541F3	16		15-4	
541F9	16		18-8	
541F8	16		15-6	
541L	16		18-5	
541M	16		15-10	
541N	16		19-1	
541P8	2		4-8	
541P10	6	#5	5-2	

ITEM	UNIT	TOTAL
CLASS "X" CONCRETE	Cu Yds	93.6
REINFURCEMENT BARS	Lbs	2730
ALUMINUM HANDRAIL	Lin.Ft.	560

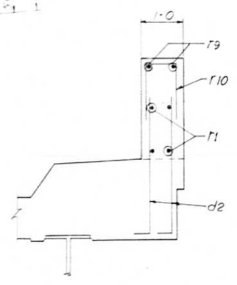
*See Note X Sh. No. 25.



BAR r10



VIEW A-A



SECTION B-B

Notes:
For Detail at Light Std. see Sh. No. 45.
For Handrail and Parapet Joint Details see Sh. No. 63.

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

PARAPET AND HANDRAIL
SPANS C8 THRU C11

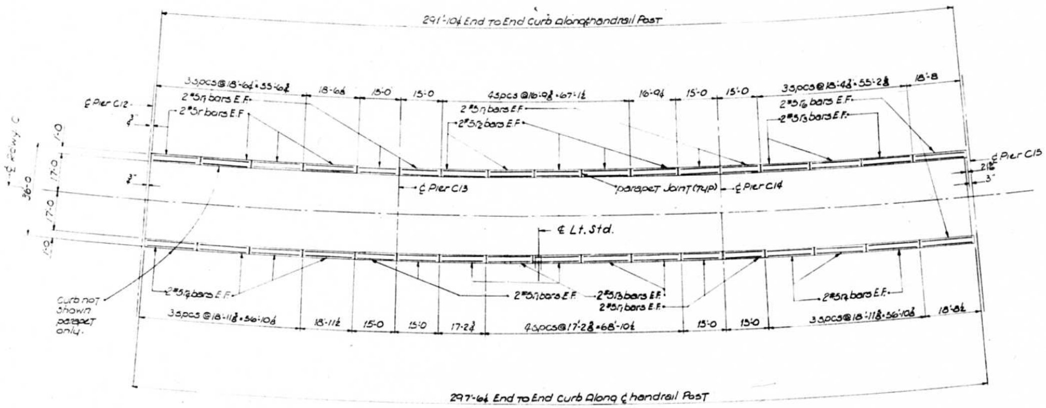
POPLAR STREET BRIDGE APPROACHES
ROADWAY "C"

F.A.I. RT. 70 ST. CLAIR CO. SECTION 82–3HVB

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

SHEET 54 OF 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.–70	82–3HVB	ST. CLAIR	289	90
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



PLAN
parapet Joint Spacing
Span C12 thru C14

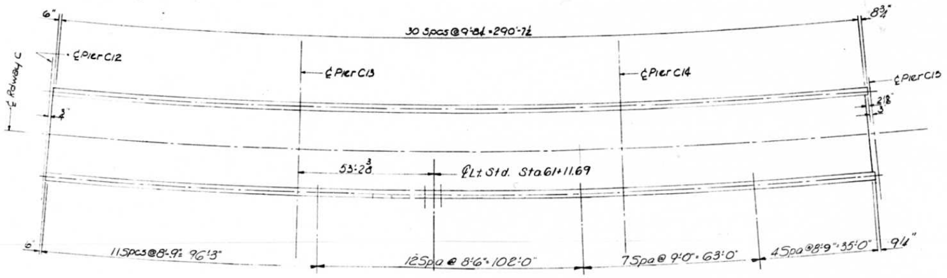
Note: All dimensions in Plan are along ¢ of Post.

BILL OF MATERIAL

•BAR	NO.	SIZE	LENGTH	SHAPE
55r	16	#5	18'-2	
55r1	32		14'-8	
55r2	20		16'-5	
55r3	12		18'-0	
55r4	28		18'-7	
55r5	20		16'-10	
55r6	8	#5	18'-4	

ITEM	UNIT	TOTA
Class "X" Concrete	Cu.Yds	30.0
Reinforcement bars	lbs	2410
Aluminum handrail	lin.ft.	590

• See Note X Sh. No. 25



PLAN
handrail Post Spacing

Notes:
For Detail at Light Std. see Sh. No. 45.
For Handrail and Parapet Joint Details see Sh. No. 65.

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

PARAPET AND HANDRAIL
SPANS C12 THRU C14
POPLAR STREET BRIDGE APPROACHES
ROADWAY "C"

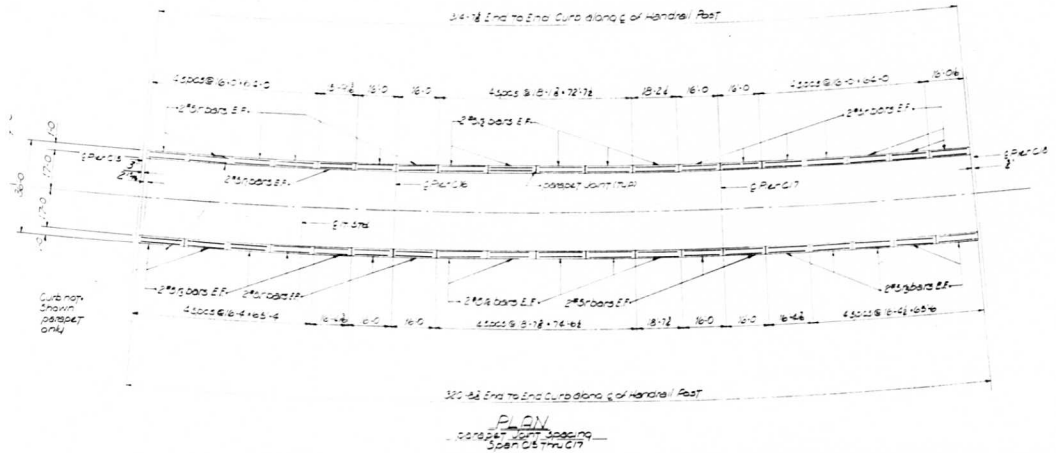
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82–3HVB

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

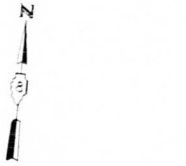
SHEET 55 of 241

DESIGNED BY RMR
DRAWN BY RL
CHECKED BY AS
APPROVED BY A.A.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	91
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



PLAN
Light Spacing
Span C5 thru C17



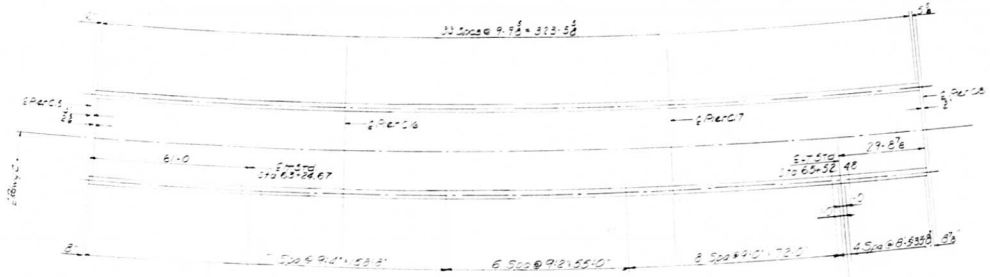
Typ. dimensions for Bar arrangement of Post

BILL OF MATERIAL

• BAR	NO.	SIZE	LENGTH	SHAPE
56r	68	#5	15'-8	
56r1	4		15'-6	
56r2	20		17'-10	
56r3	40	1	16'-0	
56r4	20	#5	18'-3	

ITEM	UNIT	Total
Reinforcement bars	lbs	2600
Class X Concrete	Cu Yds	32.4
Aluminum Handrail	lin. Ft.	636

• See Note X Sh No 25



PLAN
Handrail Post Spacing

Notes:
For Detail of Light Std. see Sh No 45.
For Handrail and Parapet Joint Details see Sh. No. 63.

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

PARAPET AND HANDRAIL
SPANS C15 THRU C17
POPLAR STREET BRIDGE APPROACHES
ROADWAY "C"

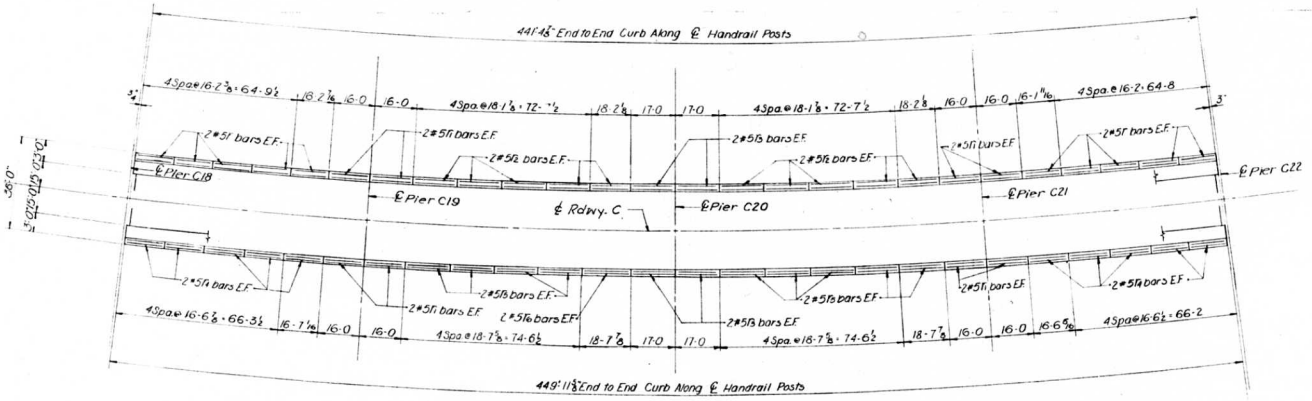
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

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

SHEET 56 OF 241

RMR
RL
AS
KF

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82—3HVB	ST. CLAIR	289	92
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



PLAN
PARAPET JOINT SPACING
SPANS C18 THRU C21

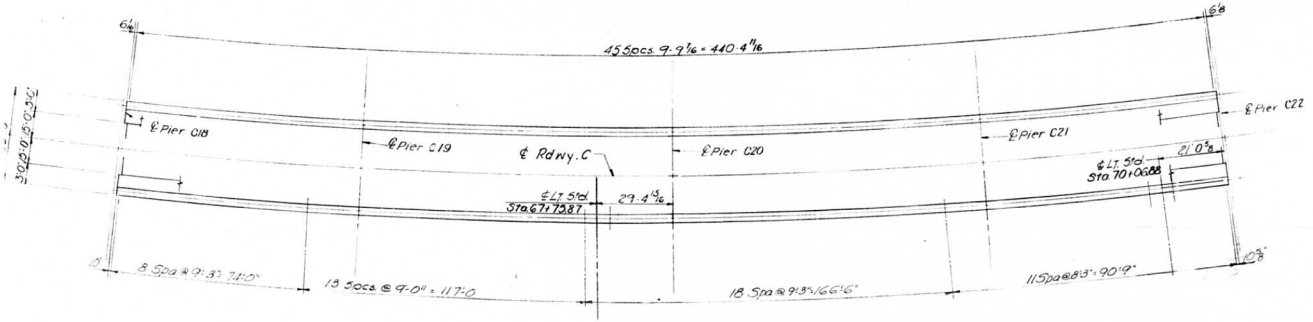
BILL OF MATERIAL

• BAR	NO.	SIZE	LENGTH	SHAPE
57f	40	#5	5'-10	
57f1	32	1	15'-8	
57f3	40		17'-10	
57f3	16		16'-8	
57f4	40	1	16'-3	
57f8	40	#5	16'-4	

ITEM	UNIT	TOTAL
CLASS 'Y' CONCRETE	Cu Yds	654
REINFORCEMENT BARS	Lbs	3650
ALUMINUM HANDRAIL	Lin Ft	892

• See Note X Sh. No. 25

Note: All dimensions in plan are along ℄ of post.



PLAN
HANDRAIL POST SPACING

Notes:
For Detail at Light Std. see Sh. No. 45.
For handrail and Parapet Joint Details see Sh. No. 63.

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

PARAPET AND HANDRAIL
SPANS C18 THRU C21
POPLAR STREET BRIDGE APPROACHES
ROADWAY "C"

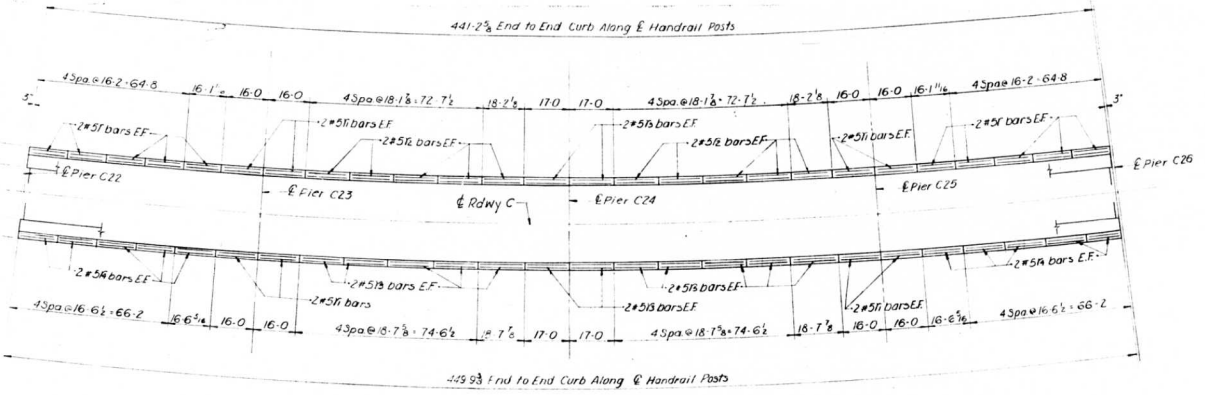
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

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

SHEET 57 OF 241

RMR
SSM
AS
KA

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I.-70	82-3HVB	ST. CLAIR	289	93
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



PLAN
PARAPET JOINT SPACING
SPANS C22 THRU C25

N

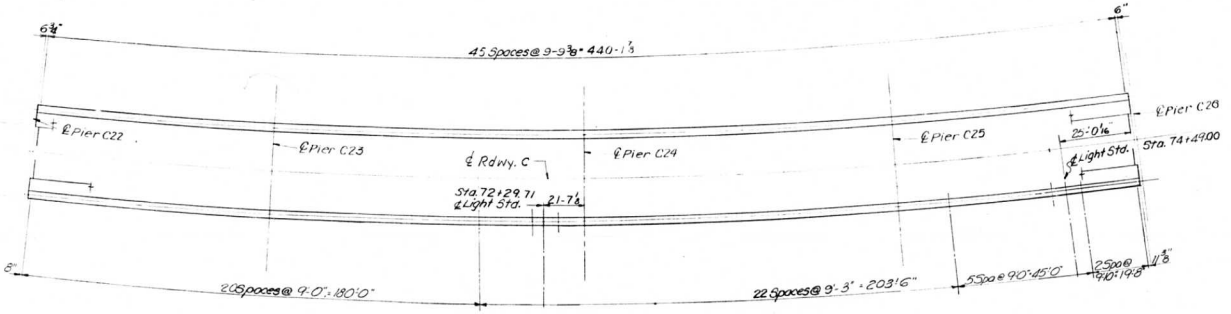
BILL OF MATERIAL *

• BAR	NO.	SIZE	LENGTH	SHAPE
58f	40	#5	15-10	
58h	32		15-8	
58i2	40		17-10	
58i3	16		16-8	
58i4	40		16-2	
58i5	40	#5	18-4	

ITEM	UNIT	TOTAL
CLASS 'Y' CONCRETE	Cu. Yds.	45.4
REINFORCEMENT BARS	Lbs.	3640
ALUMINUM HANDRAIL	Lin. Ft.	892

• See Note X Sh. No. 25.

Note: All dimensions in plan are along ℄ of post



PLAN
HANDRAIL POST SPACING

Notes:
For Detail of Light Std. see Sh. No. 45.
For Handrail and Parapet Joint Details see Sh. No. 63.

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

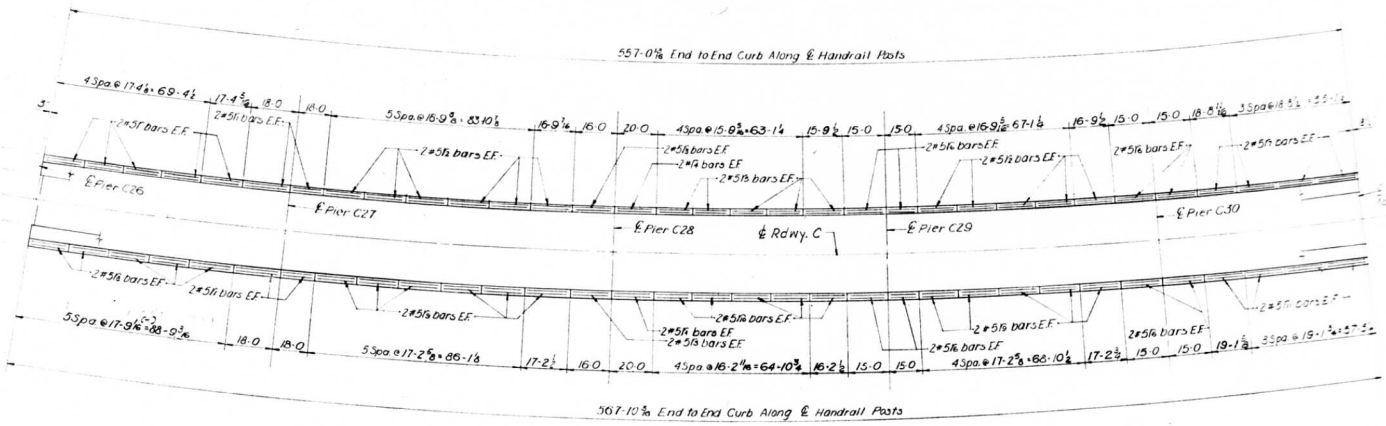
PARAPET AND HANDRAIL
SPANS C22 THRU C25
POPLAR STREET BRIDGE APPROACHES
ROADWAY "C"

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

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

SHEET 58 OF 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	59
FED. ROAD DIV. NO. 5	ILLINOIS	PROJECT		



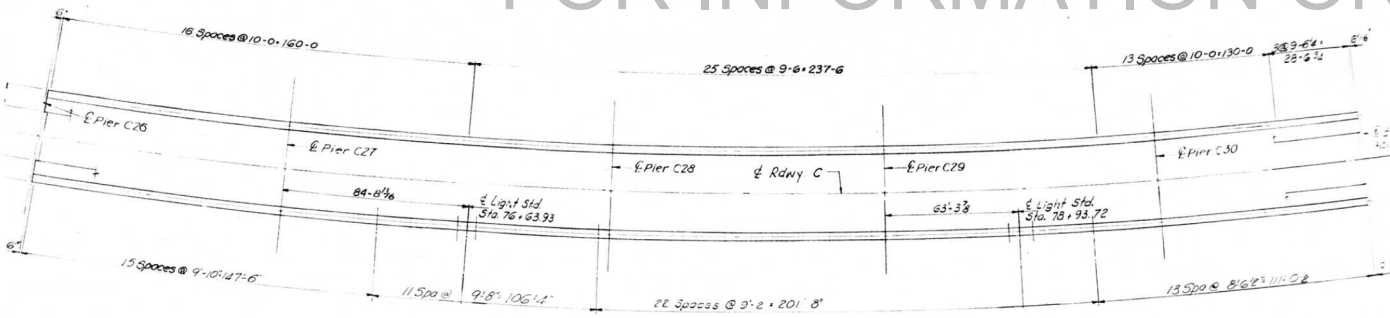
PLAN
PARAPET JOINT SPACING
SPANS C26 THRU C30

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
S26	30	#5	13-0	
S27	6		17-6	
S28	44		16-1	
S29	7		15-8	
S30	1		19-8	
S26	30		15-5	
S27	6		14-8	
S28	2		18-2	
S29	30		17-5	
S28	44		16-10	
S27	6	1	15-10	
S29	2	#5	18-5	

ITEM	UNIT	TOTAL
CLASS I CONCRETE	CU YDS	37.3
REINFORCEMENT BARS	LBS	1220
ALUMINUM HANDRAIL	LIN FT	1165

● See Note 1 on Sh No 25



PLAN
HANDRAIL POST SPACING

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

PARAPET AND HANDRAIL
SPANS C26 THRU C30
POPLAR STREET BRIDGE APPROACHES
ROADWAY "C"

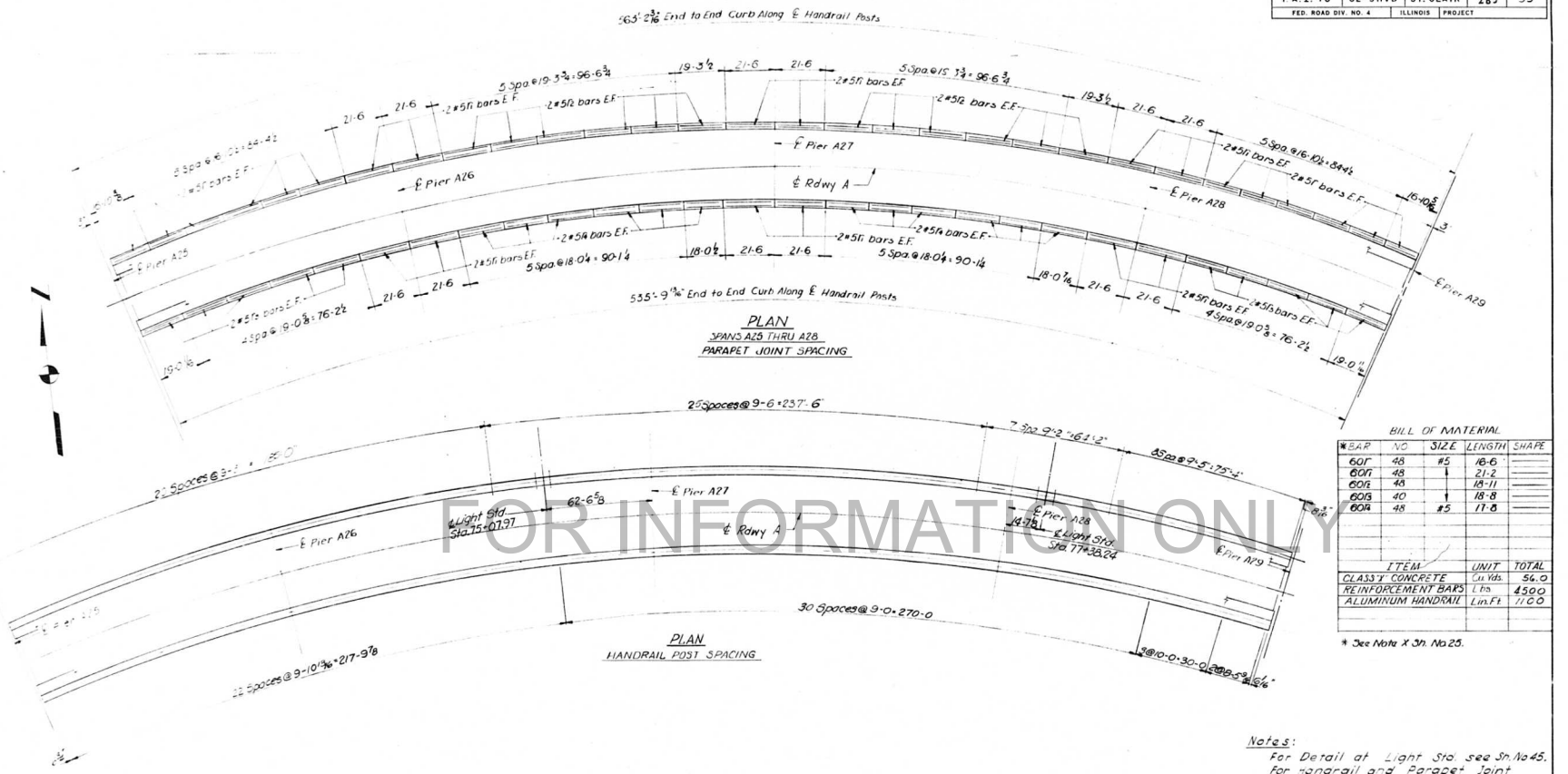
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

F. W. LOSCHEN, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET
59 OF 241

BMR
MM
AS
KA

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	95
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



BILL OF MATERIAL

*BAR	NO.	SIZE	LENGTH	SHAPE
601F	48	#5	18-6	
601H	48		21-2	
601E	48		19-11	
601G	40		18-8	
601J	48	#5	17-8	

ITEM	UNIT	TOTAL
CLASS 'Y' CONCRETE	Cu. Yds.	56.0
REINFORCEMENT BARS	Lbs.	4500
ALUMINUM HANDRAIL	Lin. Ft.	1100

* See Note X Sh. No 25.

Notes:
For Detail at Light Std. see Sh. No 45.
For Handrail and Parapet Joint Details see Sh. No. 63.

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

PARAPET AND HANDRAIL
SPANS A25 THRU A28
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

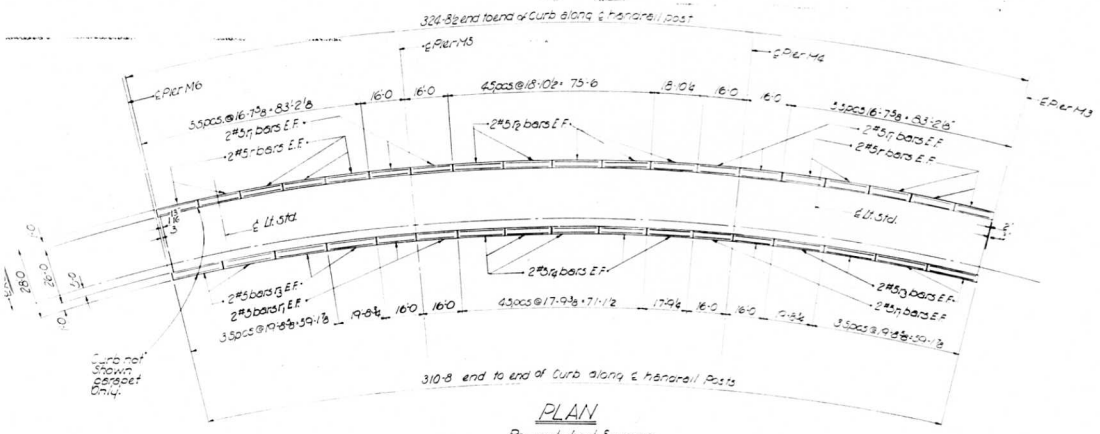
F A I RT. 70 ST. CLAIR CO. SECTION 82-3HVB

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

SHEET 60 of 241

SIGNED BY: E.M.E.
ARN BY:
ECKED BY: A.S.
PROVED BY: K.A.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	285	96
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



PLAN

Parapet Joint Spacing.

Ramp M

Spans M4 thru M6

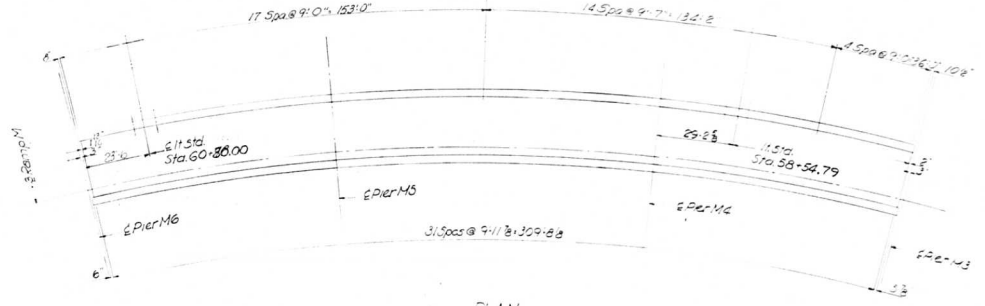
Note: All dimensions in plan are along ℄ of post

BILL OF MATERIAL

*Bar	No	Size	Length	Shape
61F	40	#5	16'-3	
61H	32	#5	15'-8	
61½	20	#5	18'-6	
61J	32	#5	19'-4	
61K	20	#5	17'-5	

Item	unit	Total
Class 'X' Concrete	Cu.yd.	32.4
Aluminum Handrail	lin.ft.	636
Reinforcement bars	lbs.	2600

* See Note X Sh. No. 25.



PLAN

Handrail Post Spacing

Ramp M

Notes:

For Detail at Light Std. see Sh. No. 45.

For Handrail and Parapet Joint Details see Sh. No. 63.

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

PARAPET AND HANDRAIL

SPANS M4 THRU M6

POPLAR STREET BRIDGE APPROACHES

RAMP "M"

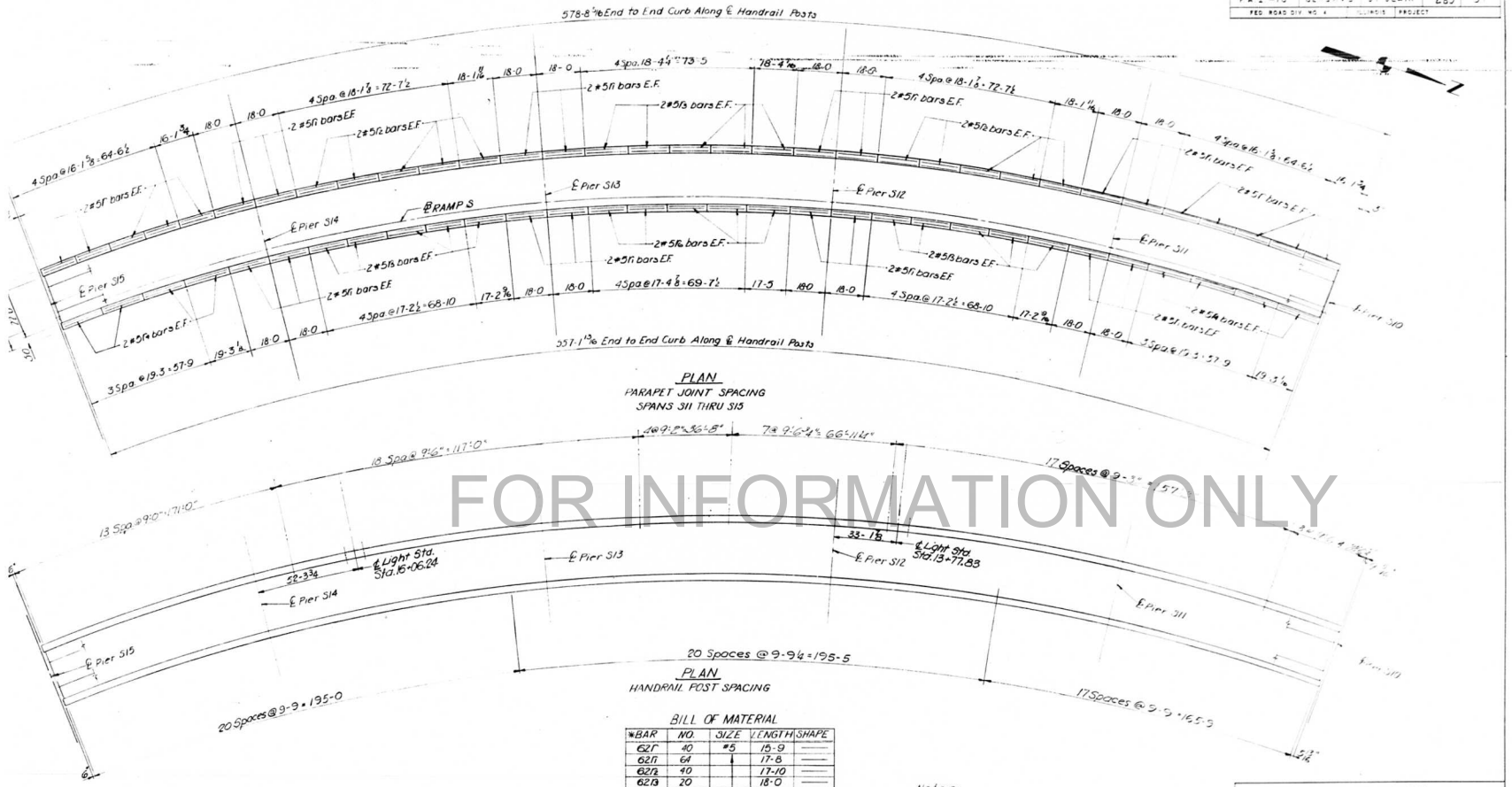
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

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

SHEET 61 of 241

NED BY K.M.K.
N BY
ED BY
WED BY K.R.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F A I -70	82-3 H v B	ST CLAIR	289	97
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



PLAN
PARAPET JOINT SPACING
SPANS S11 THRU S15

PLAN
HANDRAIL POST SPACING

BILL OF MATERIAL

*BAR	NO.	SIZE	LENGTH	SHAPE
62F	40	#5	15-9	
62H	64		17-8	
62J	40		17-10	
62K	20		18-0	
62L	32		18-11	
62M	40		16-10	
62N	20	#5	17-1	

ITEM	UNIT	TOTAL
CLASS 'A' CONCRETE	Cu Yds.	57.5
REINFORCEMENT BARS	Lbs.	4650
ALUMINUM HANDRAIL	Lin. Ft.	1137

* See Note X Sh No. 25.

Notes:
For Detail at light Std see Sh No 65.
for Handrail and Parapet joint Details see Sh. No. 63.

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

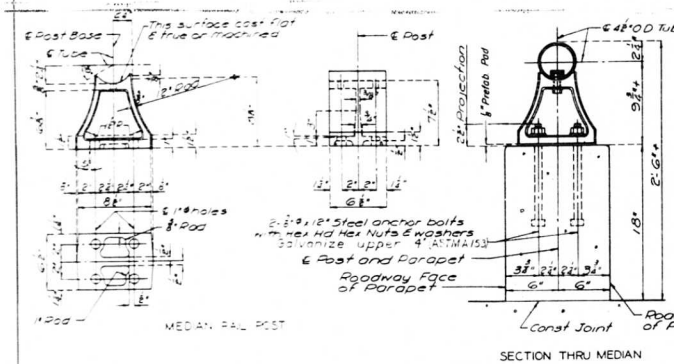
PARAPET AND HANDRAIL
SPANS S11 THRU S15
POPLAR STREET BRIDGE APPROACHES
RAMP "S"

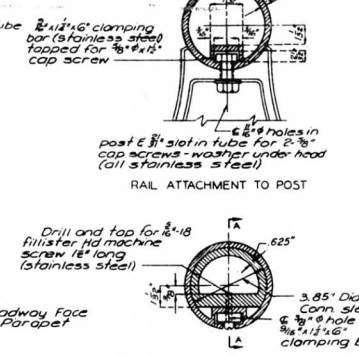
F A I RT 70 ST CLAIR CO SECTION 82-3HvB

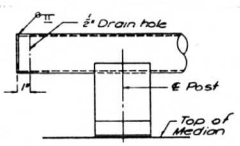
H W LOCHNER INC
ENGINEERS
CHICAGO ILLINOIS

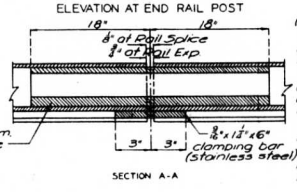
SHEET 62 OF 24

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F A I – 70	82-3HVB	ST. CLAIR	289	98
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	









NOTE: For limit of Median Rail see sheet no. 54.

NOTES:

All Posts shall be normal to parapet.

All Aluminum Alloy Extruded Rail shall conform to ASTM specification B-235 alloy 6061-T6, or 6062-T6, and shall extend a minimum of 2 panel lengths (attached to a minimum of 3 posts) except at ends or at open joints where a minimum of 1 panel length is required. All joints in railing must be spliced per detail.

All fillets ½" except as noted.

All drafts 2° except as noted.

All rail splices shall be located near the ¼ point between rail posts.

See Special Provisions for following Material Specifications:

Cast Aluminum Alloy Bridge Post All A344-T4.

Stainless Steel Machine Bolts, Washers, and Bars.

For material composition of Prefabricated Pad, see Article 541.01(f), (Bearing and Anchorage), of the Standard Specifications.

METHOD of MEASUREMENT: Aluminum handrail shall be measured in lineal feet. The length paid for shall be the over all length along top longitudinal railing member thru all posts and gaps.

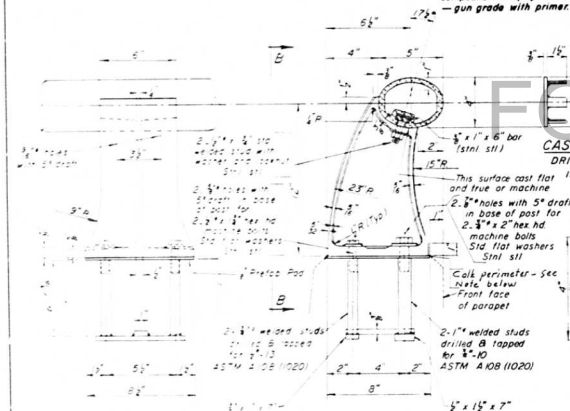
BASIS of PAYMENT: Aluminum handrail shall be paid for at the contract unit price per lineal foot for ALUMINUM HANDRAIL, measured as specified, which price shall be payment in full for all materials, fabrication, transportation, and erection.

Cost of rail splice, end caps, and hardware to be incidental to item ALUMINUM HANDRAIL.

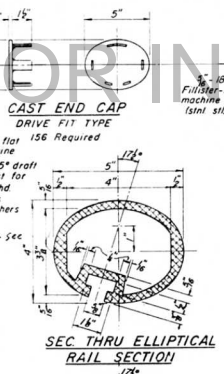
Provide 1 – ⅛" and 2 – 1/16" Aluminum Shims for 25% of the Posts. Rail element shall be parallel to Grade – high spots shall be ground and low spots shimmed.

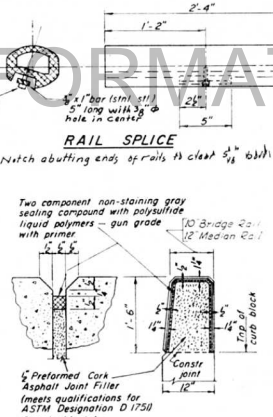
Note: Seal base of post to parapet with two component non-staining gray sealing compound with polysulfide liquid polymers, – gun grade with primer.

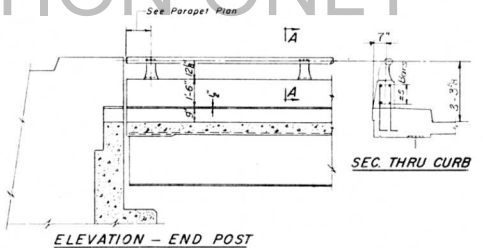
ALUMINUM MEDIAN RAIL



Note:
Seal perimeter of base of post to parapet with two component non-staining gray sealing compound with polysulfide liquid polymers – gun grade with primer.







ALUMINUM BRIDGE RAIL

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

ALUMINUM HANDRAIL

POPLAR STREET BRIDGE APPROACHES
ROADWAYS "A", "B" AND "C"
RAMPS "M" AND "S"

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

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

SHEET 63 OF 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	99
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

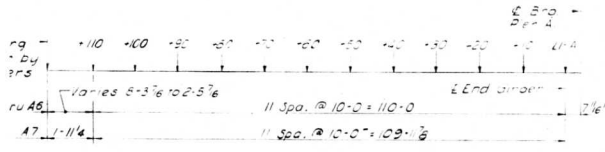
ROADWAY "A"

	℄ BRG.	+110	+100	+90	+80	+70	+60	+50	+40	+30	+20	+10	L1-A
1	.000	.046	.091	.141	.192	.192	.199	.194	.176	.147	.107	.056	.000
2	.000	.025	.066	.101	.127	.144	.151	.148	.135	.113	.082	.043	.000
3	.000	.016	.058	.086	.125	.144	.153	.151	.139	.116	.085	.045	.000
4	.000	.009	.048	.081	.106	.123	.131	.130	.119	.100	.073	.038	.000
5	.000	.010	.064	.110	.145	.167	.174	.175	.166	.133	.097	.051	.000

1	454.621	454.367	454.057	453.747	453.437	453.127	452.818	452.508	452.198	451.888	451.578	451.269	450.959
2	454.722	454.503	454.193	453.884	453.574	453.264	452.954	452.644	452.335	452.025	451.715	451.405	451.095
3	454.823	454.640	454.330	454.020	453.710	453.401	453.091	452.781	452.471	452.161	451.852	451.542	451.232
4	454.924	454.776	454.466	454.157	453.847	453.537	453.227	452.918	452.608	452.298	451.988	451.678	451.369
5	455.024	454.913	454.603	454.293	453.983	453.674	453.364	453.054	452.744	452.434	452.125	451.815	451.505
6	455.125	455.049	454.740	454.430	454.120	453.810	453.500	453.191	452.881	452.571	452.261	451.951	451.642
7	455.168	455.108	454.905	454.603	454.200	453.897	453.594	453.291	452.988	452.686	452.383	452.080	451.777

1	454.621	454.413	454.154	453.889	453.630	453.320	453.017	452.702	452.375	452.036	451.686	451.325	450.959
2	454.722	454.529	454.260	453.985	453.701	453.408	453.106	452.793	452.471	452.139	451.798	451.449	451.095
3	454.823	454.665	454.397	454.122	453.838	453.545	453.242	452.930	452.607	452.275	451.934	451.586	451.232
4	454.924	454.802	454.533	454.258	453.974	453.682	453.379	453.066	452.744	452.412	452.071	451.722	451.369
5	455.024	454.929	454.663	454.390	454.109	453.816	453.517	453.206	452.883	452.551	452.210	451.860	451.505
6	455.125	455.059	454.788	454.511	454.227	453.934	453.632	453.321	453.001	452.672	452.335	451.990	451.642
7	455.168	455.119	454.870	454.613	454.345	454.065	453.772	453.467	453.149	452.820	452.480	452.131	451.777

1	454.037	453.830	453.573	453.305	453.026	452.736	452.434	452.119	451.791	451.453	451.102	450.742	450.376
2	454.138	453.945	453.677	453.402	453.118	452.825	452.523	452.210	451.887	451.555	451.215	450.866	450.512
3	454.239	454.082	453.814	453.538	453.254	452.962	452.659	452.346	452.024	451.692	451.351	451.002	450.649
4	454.340	454.219	453.950	453.675	453.391	453.098	452.796	452.483	452.160	451.829	451.488	451.139	450.785
5	454.441	454.346	454.079	453.807	453.526	453.235	452.934	452.622	452.300	451.968	451.627	451.277	450.922
6	454.542	454.476	454.204	453.928	453.644	453.351	453.049	452.738	452.417	452.089	451.751	451.407	451.058
7	454.585	454.535	454.286	454.030	453.762	453.481	453.189	452.883	452.565	452.236	451.897	451.548	451.194



ELEVATION LOCATION DIAGRAM
ROADWAY "A"

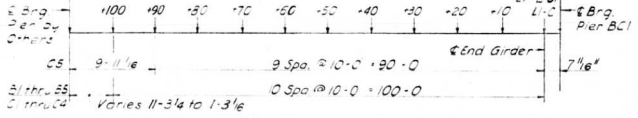
ROADWAY "B" & "C"

	℄ BRG.	+100	+90	+80	+70	+60	+50	+40	+30	+20	+10	L1-B or L1-C
GIRD. B1	.000	.065	.130	.180	.215	.234	.235	.218	.184	.135	.071	.000
GIRD. B2-B4	.000	.042	.026	.121	.147	.160	.161	.149	.125	.091	.048	.000
GIRD. B5	.000	.017	.046	.069	.085	.094	.095	.089	.076	.055	.029	.000
GIRD. C1	.000	.005	.073	.112	.141	.157	.160	.150	.126	.092	.049	.000
GIRD. C2-C4	.000	.012	.057	.086	.124	.141	.145	.137	.117	.087	.046	.000
GIRD. C5	.000		.042	.075	.100	.117	.123	.117	.102	.076	.041	.000

GIRD.													
B1	455.388	455.050	454.750	454.450	454.150	453.850	453.550	453.250	452.950	452.650	452.351	452.059	
B2	455.223	454.925	454.625	454.325	454.025	453.725	453.425	453.125	452.825	452.525	452.226	451.934	
B3	455.059	454.801	454.501	454.201	453.901	453.601	453.301	453.001	452.701	452.401	452.101	451.809	
B4	454.894	454.676	454.376	454.076	453.776	453.476	453.176	452.876	452.576	452.276	451.977	451.685	
B5	454.729	454.551	454.251	453.951	453.651	453.351	453.051	452.751	452.451	452.151	451.852	451.560	
C1	454.709	454.551	454.251	453.951	453.651	453.351	453.051	452.751	452.451	452.151	451.852	451.560	
C2	454.794	454.676	454.376	454.076	453.776	453.476	453.176	452.876	452.576	452.276	451.977	451.685	
C3	454.878	454.801	454.501	454.201	453.901	453.601	453.301	453.001	452.701	452.401	452.101	451.809	
C4	454.963	454.925	454.625	454.325	454.025	453.725	453.425	453.125	452.825	452.525	452.226	451.934	
C5	454.861		454.563	454.263	453.963	453.663	453.378	453.112	452.845	452.579	452.313	452.054	

B1	455.388	455.116	454.880	454.631	454.366	454.084	453.785	453.468	453.135	452.786	452.423	452.059	
B2	455.223	454.968	454.712	454.447	454.173	453.886	453.587	453.275	452.951	452.617	452.275	451.934	
B3	455.059	454.843	454.587	454.322	454.048	453.761	453.462	453.150	452.826	452.492	452.150	451.809	
B4	454.894	454.718	454.462	454.198	453.923	453.636	453.337	453.025	452.702	452.368	452.026	451.685	
B5	454.729	454.569	454.297	454.020	453.736	453.445	453.147	452.840	452.527	452.207	451.882	451.560	
C1	454.709	454.577	454.324	454.063	453.793	453.509	453.217	452.901	452.578	452.244	451.901	451.560	
C2	454.794	454.688	454.434	454.172	453.900	453.617	453.321	453.013	452.694	452.363	452.023	451.685	
C3	454.878	454.813	454.569	454.297	454.025	453.742	453.448	453.138	452.818	452.488	452.148	451.809	
C4	454.963	454.938	454.683	454.422	454.150	453.867	453.571	453.263	452.943	452.613	452.273	451.934	
C5	454.861		454.606	454.338	454.064	453.780	453.502	453.230	452.948	452.655	452.354	452.054	

B1	454.605	454.532	454.297	454.048	453.783	453.501	453.202	452.885	452.552	452.202	451.840	451.476	
B2	454.640	454.385	454.129	453.864	453.589	453.303	453.004	452.692	452.368	452.034	451.692	451.351	
B3	454.475	454.260	454.004	453.739	453.464	453.178	452.879	452.567	452.243	451.909	451.567	451.226	
B4	454.310	454.135	453.879	453.614	453.340	453.053	452.754	452.442	452.118	451.784	451.442	451.101	
B5	454.146	453.986	453.714	453.437	453.153	452.862	452.563	452.257	451.944	451.624	451.298	450.977	
C1	454.126	453.994	453.741	453.480	453.209	452.925	452.628	452.318	451.995	451.660	451.318	450.977	
C2	454.210	454.105	453.850	453.589	453.317	453.034	452.738	452.430	452.110	451.780	451.440	451.101	
C3	454.295	454.230	453.975	453.713	453.442	453.159	452.863	452.555	452.235	451.905	451.565	451.226	
C4	454.380	454.354	454.100	453.838	453.566	453.284	452.988	452.679	452.360	452.029	451.690	451.351	
C5	454.277		454.022	453.755	453.480	453.197	452.918	452.646	452.364	452.072	451.771	451.471	



ELEVATION LOCATION DIAGRAM
ROADWAY "B" & "C"

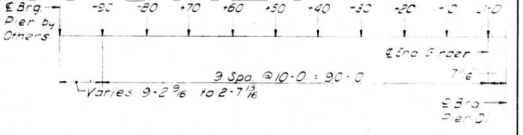
ROADWAY "D"

	℄ BRG.	+90	+80	+70	+60	+50	+40	+30	+20	+10	L1-D
GIRD. D1	.000	.041	.077	.102	.117	.122	.114	.097	.071	.037	.000
GIRD. D2	.000	.035	.074	.103	.122	.129	.124	.106	.079	.042	.000
GIRD. D3, D4	.000	.023	.063	.094	.114	.123	.120	.104	.078	.042	.000
GIRD. D5	.000	.018	.058	.084	.108	.120	.120	.108	.085	.059	.000

GIRD.												
D1	454.788	454.509	454.206	453.902	453.598	453.316	453.013	452.710	452.406	452.103	451.800	
D2	454.674	454.426	454.118	453.810	453.502	453.206	452.898	452.590	452.282	451.974	451.666	
D3	454.494	454.302	453.994	453.686	453.378	453.072	452.764	452.456	452.148	451.840	451.532	
D4	454.315	454.178	453.870	453.562	453.254	452.937	452.629	452.321	452.013	451.705	451.397	
D5	454.135	454.053	453.745	453.437	453.129	452.803	452.495	452.187	451.879	451.571	451.263	

D1	454.788	454.551	454.283	454.005	453.133	453.438	453.127	452.807	452.478	452.141	451.800	
D2	454.674	454.461	454.182	453.913	453.041	453.336	453.023	452.697	452.362	452.017	451.666	
D3	454.494	454.325	454.057	453.780	452.909	453.195	452.885	452.561	452.226	451.882	451.532	
D4	454.315	454.201	453.933	453.656	452.784	453.061	452.750	452.426	452.092	451.748	451.397	
D5	454.135	454.072	453.804	453.522	452.654	452.923	452.615	452.295	451.964	451.630	451.263	

D1	454.205	453.967	453.699	453.421	453.716	452.855	452.544	452.223	451.894	451.558	451.217	
D2	454.090	453.878	453.609	453.330	453.624	452.753	452.439	452.114	451.778	451.434	451.083	
D3	453.911	453.741	453.473	453.196	453.492	452.612	452.301	451.977	451.643	451.299	450.948	
D4	453.731	453.617	453.349	453.072	453.368	452.477	452.167	451.843	451.508	451.164	450.814	
D5	453.552	453.489	453.221	452.939	453.238	452.340	452.032	451.711	451.381	451.047	450.679	



ELEVATION LOCATION DIAGRAM
ROADWAY "D"

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

TABLES OF ELEVATIONS

SPAN ABCD

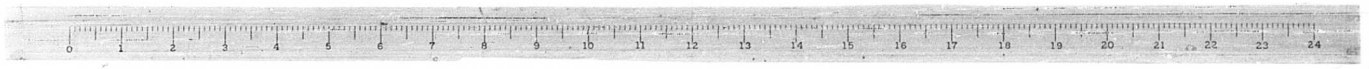
POPLAR STREET BRIDGE APPROACHES
ROADWAYS "A", "B", "C" AND "D"

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

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

SHEET 64 of 241

BY RMR
Y VR
BY RMR
) BY KA



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I-70	82-3HVB	ST. CLAIR	249	100
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

D.L. DEFLECTION (FT.)

FLOOR BEAMS	SPAN BC 1											SPAN BC 2										
	L2	2.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5
	.000	.004	.021	.053	.098	.138	.162	.172	.171	.163	.150	.132	.110	.087	.065	.046	.030	.018	.010	.005	.002	.001

THEORETICAL ELEVATION TOP OF CONCRETE

B PG. B1	451,950	451,771	451,596	451,426	451,266	450,814	450,571	450,337	450,112	449,895	449,688	448,489	449,299	449,118	448,946	448,783	448,629	448,483	448,346	448,218	448,099	447,989
STR.	451,833	451,654	451,479	451,209	450,949	450,697	450,454	450,220	449,995	449,778	449,571	449,372	449,182	449,001	448,829	448,666	448,512	448,366	448,229	448,101	447,982	447,872
STR.	451,716	451,537	451,362	451,092	450,832	450,580	450,337	450,103	449,878	449,661	449,454	449,255	449,065	448,884	448,712	448,549	448,395	448,249	448,112	447,984	447,865	447,755
STR.	451,599	451,420	451,245	450,975	450,715	450,463	450,220	449,986	449,761	449,544	449,337	449,138	448,948	448,767	448,595	448,432	448,278	448,132	447,995	447,867	447,748	447,638
B PG. B2	451,482	451,303	451,128	450,858	450,598	450,346	450,103	449,869	449,644	449,427	449,220	449,021	448,831	448,650	448,478	448,315	448,161	448,015	447,878	447,750	447,631	447,521

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION

B PG. B1	451,950	451,776	451,617	451,360	451,104	450,852	450,608	450,359	450,123	449,899	449,688	449,492	449,310	449,140	448,978	448,822	448,676	448,521	448,377	448,238	448,108	447,991
STR.	451,833	451,659	451,500	451,243	450,987	450,735	450,486	450,242	450,006	449,782	449,571	449,375	449,193	449,023	448,861	448,705	448,553	448,404	448,260	448,121	447,991	447,874
STR.	451,716	451,543	451,383	451,126	450,870	450,618	450,369	450,125	449,889	449,665	449,454	449,258	449,076	448,906	448,744	448,588	448,436	448,287	448,143	448,004	447,874	447,757
STR.	451,599	451,425	451,266	451,009	450,753	450,501	450,252	450,008	449,770	449,548	449,337	449,141	448,959	448,789	448,627	448,471	448,319	448,170	448,026	447,887	447,757	447,640
B PG. B2	451,482	451,308	451,149	450,890	450,636	450,384	450,135	449,891	449,655	449,431	449,220	449,024	448,842	448,672	448,510	448,354	448,208	448,053	447,909	447,770	447,640	447,523

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION - SLAB THICKNESS (7")

B PG. B1	451,367	451,193	451,034	450,776	450,521	450,269	450,020	449,776	449,540	449,315	449,105	448,906	448,726	448,556	448,395	448,239	448,087	447,938	447,793	447,655	447,525	447,408
STR.	451,250	451,076	450,917	450,659	450,404	450,152	449,903	449,659	449,423	449,198	448,988	448,791	448,609	448,439	448,278	448,122	447,970	447,821	447,676	447,538	447,408	447,291
STR.	451,133	450,959	450,800	450,542	450,287	450,035	449,786	449,542	449,306	449,081	448,871	448,674	448,492	448,322	448,161	448,005	447,853	447,704	447,559	447,421	447,291	447,174
STR.	451,016	450,843	450,683	450,425	450,170	449,918	449,669	449,425	449,189	448,964	448,754	448,557	448,375	448,205	448,044	447,888	447,736	447,587	447,442	447,304	447,174	447,057
B PG. B2	450,899	450,725	450,566	450,308	450,053	449,801	449,552	449,308	449,072	448,847	448,637	448,440	448,258	448,088	447,927	447,771	447,619	447,470	447,325	447,187	447,057	446,940

D.L. DEFLECTION (FT.)

FLOOR BEAMS	SPAN BC 3													SPAN BC 4								
		1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	11.5
	.000	.001	.008	.019	.030	.038	.041	.039	.031	.021	.010	.002	.000	.003	.011	.021	.031	.038	.038	.033	.022	.005	.000

THEORETICAL ELEVATION TOP OF CONCRETE

B PG. B	447,888	447,795	447,712	447,637	447,571	447,514	447,466	447,427	447,396	447,374	447,362	447,358	447,362	447,376	447,399	447,430	447,470	447,520	447,574	447,628	447,682	447,717	447,753
STR.	447,771	447,678	447,595	447,520	447,454	447,397	447,349	447,310	447,279	447,257	447,245	447,241	447,245	447,259	447,282	447,313	447,353	447,403	447,457	447,511	447,565	447,600	447,636
STR.	447,654	447,561	447,478	447,403	447,337	447,280	447,232	447,193	447,162	447,140	447,128	447,124	447,128	447,142	447,165	447,196	447,236	447,286	447,340	447,394	447,448	447,483	447,519
STR.	447,537	447,444	447,361	447,286	447,220	447,163	447,115	447,076	447,045	447,023	447,011	447,007	447,011	447,025	447,048	447,079	447,119	447,169	447,223	447,277	447,331	447,366	447,402
B PG. B2	447,420	447,327	447,244	447,169	447,103	447,046	446,998	446,959	446,928	446,906	446,894	446,890	446,894	446,908	446,931	446,962	447,002	447,052	447,106	447,160	447,214	447,249	447,285

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION

B PG. B	447,888	447,797	447,721	447,657	447,608	447,553	447,507	447,466	447,428	447,396	447,372	447,360	447,362	447,380	447,410	447,452	447,502	447,558	447,612	447,661	447,704	447,723	447,753
STR.	447,771	447,680	447,604	447,540	447,485	447,436	447,390	447,349	447,311	447,279	447,255	447,243	447,245	447,263	447,293	447,335	447,385	447,441	447,495	447,544	447,587	447,600	447,636
STR.	447,654	447,563	447,487	447,423	447,368	447,319	447,273	447,232	447,194	447,162	447,138	447,126	447,128	447,146	447,176	447,218	447,268	447,324	447,378	447,427	447,470	447,489	447,519
STR.	447,537	447,446	447,370	447,306	447,251	447,203	447,156	447,115	447,077	447,045	447,021	447,009	447,011	447,029	447,059	447,101	447,151	447,207	447,261	447,310	447,353	447,372	447,402
B PG. B2	447,420	447,329	447,253	447,189	447,134	447,085	447,039	446,998	446,960	446,928	446,904	446,892	446,894	446,912	446,942	446,984	447,034	447,090	447,144	447,193	447,236	447,255	447,285

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION - SLAB THICKNESS (7")

B PG. B1	447,305	447,214	447,137	447,073	447,018	446,968	446,924	446,882	446,843	446,812	446,788	446,777	446,779	446,796	446,827	446,869	446,919	446,974	447,029	447,078	447,120	447,140	447,170
STR.	447,188	447,097	447,020	446,956	446,901	446,852	446,807	446,765	446,728	446,695	446,671	446,660	446,662	446,679	446,710	446,752	446,802	446,857	446,912	446,961	447,003	447,023	447,053
STR.	447,071	446,980	446,903	446,839	446,784	446,735	446,690	446,648	446,611	446,578	446,554	446,543	446,545	446,562	446,593	446,635	446,685	446,740	446,795	446,844	446,886	446,906	446,936
STR.	446,954	446,863	446,786	446,722	446,667	446,618	446,573	446,531	446,494	446,461	446,437	446,426	446,428	446,445	446,476	446,518	446,568	446,623	446,678	446,727	446,769	446,789	446,819
B PG. B2	446,837	446,746	446,669	446,605	446,550	446,501	446,456	446,414	446,377	446,344	446,320	446,309	446,311	446,328	446,358	446,401	446,451	446,506	446,561	446,610	446,652	446,672	446,702

Note A:
Floor Beam 1.5 indicates a line half way between Floor Beam 1 and Floor Beam 2. The lines of elevations for Stringers are identified by their relative position to the Girder indicated in the Tables.

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

TABLES OF ELEVATIONS

SPANS BC1 THRU BC4

POPLAR STREET BRIDGE APPROACHES
ROADWAY "B"

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

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

SHEET 65 OF 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	101
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT ,		

D.L. DEFLECTION (FT.)

FLOOR BEAMS	SPAN BC 5								SPAN BC 6										SPAN B7								
	L4	L4.5	22	22.5	23	23.5	24	24.5	25	25.5	26	26.5	27	27.5	28	28.5	29	29.5	30	30.5	31	31.5	32	32.5	33	33.5	L5
	.000	.007	.017	.021	.021	.016	.008	.002	.000	.006	.016	.027	.035	.038	.035	.027	.016	.006	.000	.002	.009	.016	.021	.021	.016	.007	.000

THEORETICAL ELEVATION TOP OF CONCRETE

GIRD. B1	447.753	447.712	447.670	447.619	447.568	447.516	447.465	447.414	447.363	447.311	447.260	447.209	447.158	447.106	447.055	447.004	446.953	446.901	446.850	446.798	446.747	446.695	446.643	446.592	446.540	446.501	446.482
STR.	447.638	447.620	447.601	447.578	447.555	447.532	447.509	447.486	447.463	447.440	447.417	447.393	447.370	447.347	447.324	447.301	447.278	447.255	447.232	447.207	447.183	447.161	447.144	447.126	447.107	447.097	447.089
STR.	447.524	447.528	447.532	447.537	447.542	447.547	447.552	447.558	447.563	447.568	447.573	447.578	447.583	447.588	447.594	447.599	447.604	447.609	447.614	447.619	447.624	447.634	447.648	447.663	447.679	447.696	447.715
STR.	447.409	447.436	447.463	447.496	447.530	447.563	447.596	447.629	447.663	447.696	447.729	447.763	447.796	447.829	447.863	447.896	447.929	447.963	447.996	448.030	448.066	448.107	448.152	448.200	448.252	448.295	448.341
GIRD. B2	447.294	447.344	447.394	447.455	447.517	447.578	447.640	447.701	447.763	447.824	447.886	447.947	448.009	448.070	448.132	448.194	448.255	448.317	448.378	448.441	448.508	448.579	448.655	448.736	448.823	448.893	448.967

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION

GIRD. B1	447.753	447.719	447.687	447.641	447.589	447.533	447.474	447.416	447.363	447.318	447.277	447.236	447.193	447.145	447.090	447.031	446.969	446.908	446.850	446.801	446.756	446.712	446.665	446.613	446.557	446.508	446.482
STR.	447.638	447.627	447.618	447.600	447.576	447.548	447.518	447.488	447.463	447.446	447.433	447.421	447.406	447.386	447.359	447.328	447.295	447.262	447.232	447.210	447.192	447.178	447.166	447.148	447.124	447.104	447.089
STR.	447.524	447.535	447.549	447.559	447.564	447.564	447.561	447.560	447.563	447.574	447.590	447.605	447.618	447.627	447.629	447.626	447.620	447.615	447.614	447.621	447.634	447.651	447.669	447.685	447.696	447.703	447.715
STR.	447.409	447.444	447.480	447.518	447.551	447.579	447.605	447.632	447.663	447.703	447.746	447.790	447.831	447.868	447.898	447.923	447.946	447.969	447.996	448.030	448.075	448.123	448.173	448.222	448.268	448.302	448.341
GIRD. B2	447.294	447.352	447.411	447.477	447.538	447.595	447.649	447.704	447.763	447.831	447.903	447.975	448.044	448.109	448.167	448.221	448.272	448.323	448.378	448.444	448.517	448.596	448.676	448.758	448.840	448.900	448.967

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION − SLAB THICKNESS (7")

GIRD. B1	447.170	447.136	447.104	447.057	447.006	446.949	446.891	446.833	446.779	446.734	446.693	446.653	446.609	446.561	446.507	446.448	446.386	446.325	446.267	446.218	446.172	446.128	446.081	446.030	445.973	445.925	445.879
STR.	447.055	447.044	447.035	447.017	446.993	446.965	446.934	446.905	446.879	446.863	446.850	446.837	446.822	446.802	446.776	446.745	446.711	446.678	446.649	446.626	446.608	446.595	446.582	446.564	446.540	446.520	446.505
STR.	446.940	446.952	446.966	446.976	446.980	446.980	446.978	446.977	446.979	446.991	447.006	447.022	447.035	447.043	447.045	447.043	447.037	447.028	447.021	447.038	447.050	447.067	447.086	447.101	447.113	447.119	447.132
STR.	446.825	446.860	446.897	446.935	446.968	446.996	447.022	447.048	447.079	447.119	447.163	447.207	447.248	447.284	447.315	447.340	447.363	447.384	447.413	447.449	447.492	447.540	447.590	447.638	447.685	447.718	447.756
GIRD. B2	446.710	446.768	446.827	446.894	446.958	447.011	447.065	447.121	447.180	447.248	447.319	447.391	447.461	447.525	447.584	447.637	447.688	447.740	447.795	447.861	447.934	448.012	448.093	448.175	448.257	448.317	448.384

D.L. DEFLECTION FT.

FLOOR BEAMS	SPAN B8								SPAN B9										SPAN B10								
	L6	L6.5	34	34.5	35	35.5	36	36.5	37	37.5	38	38.5	39	39.5	40	40.5	41	41.5	42	42.5	43	43.5	44	44.5	45	45.5	L7
	.000	.007	.016	.021	.021	.016	.009	.002	.000	.006	.016	.027	.035	.038	.035	.027	.016	.006	.000	.002	.008	.016	.021	.021	.017	.007	.000

THEORETICAL ELEVATION TOP OF CONCRETE

GIRD. B1	446.459	446.502	446.544	446.596	446.652	446.706	446.760	446.814	446.868	446.922	446.976	447.030	447.084	447.138	447.195	447.246	447.300	447.354	447.408	447.462	447.516	447.570	447.624	447.678	447.732	447.776	447.825
STR.	447.092	447.130	447.176	447.227	447.278	447.333	447.392	447.445	447.496	447.550	447.610	447.663	447.713	447.766	447.817	447.880	447.931	447.985	448.044	448.097	448.147	448.202	448.261	448.315	448.366	448.412	448.460
STR.	447.724	447.765	447.809	447.861	447.912	447.967	448.027	448.081	448.131	448.187	448.247	448.309	448.351	448.404	448.455	448.515	448.565	448.624	448.683	448.736	448.787	448.841	448.901	448.955	449.014	449.059	449.100
STR.	448.357	448.398	448.442	448.494	448.546	448.609	448.662	448.717	448.767	448.823	448.884	448.937	448.988	449.044	449.104	449.157	449.208	449.263	449.323	449.376	449.427	449.481	449.541	449.595	449.646	449.698	449.747
GIRD. B2	448.988	449.033	449.077	449.133	449.189	449.245	449.301	449.357	449.413	449.469	449.524	449.580	449.634	449.690	449.745	449.801	449.856	449.911	449.965	450.020	450.074	450.129	450.183	450.238	450.292	450.336	450.386

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION

GIRD. B1	446.459	446.509	446.561	446.620	446.673	446.722	446.769	446.817	446.868	446.909	446.993	447.057	447.119	447.176	447.227	447.273	447.317	447.361	447.408	447.465	447.525	447.586	447.645	447.700	447.749	447.784	447.807
STR.	447.092	447.140	447.192	447.249	447.299	447.349	447.401	447.448	447.496	447.557	447.626	447.690	447.748	447.806	447.862	447.907	447.947	447.991	448.044	448.099	448.156	448.218	448.280	448.337	448.383	448.419	448.440
STR.	447.724	447.772	447.826	447.883	447.933	447.984	448.036	448.083	448.131	448.193	448.263	448.327	448.386	448.444	448.501	448.546	448.586	448.630	448.683	448.739	448.796	448.858	448.922	448.977	449.023	449.059	449.100
STR.	448.357	448.405	448.459	448.516	448.567	448.618	448.671	448.719	448.767	448.830	448.900	448.965	449.023	449.083	449.139	449.184	449.225	449.263	449.303	449.378	449.435	449.498	449.562	449.617	449.663	449.699	449.741
GIRD. B2	448.988	449.040	449.093	449.155	449.211	449.262	449.310	449.360	449.413	449.475	449.540	449.607	449.669	449.729	449.781	449.828	449.870	449.911	449.955	450.002	450.053	450.106	450.205	450.260	450.309	450.344	450.380

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION − SLAB THICKNESS (7")

GIRD. B1	445.676	445.725	445.777	445.836	445.890	445.939	446.186	446.233	446.285	446.345	446.409	446.474	446.536	446.593	446.644	446.690	446.733	446.777	446.825	446.881	446.942	447.003	447.062	447.117	447.166	447.200	447.236
STR.	446.909	446.956	446.009	446.066	446.116	446.166	446.218	446.264	446.312	446.374	447.043	447.107	447.165	447.223	447.279	447.324	447.364	447.408	447.460	447.516	447.573	447.635	447.699	447.753	447.800	447.836	447.876
STR.	447.141	447.189	447.242	447.299	447.350	447.400	447.453	447.500	447.548	447.610	447.680	447.744	447.803	447.861	447.917	447.963	448.003	448.047	448.100	448.155	448.213	448.275	448.339	448.393	448.440	448.476	448.516
STR.	447.773	447.822	447.876	447.933	447.984	448.035	448.088	448.136	448.184	448.247	448.317	448.381	448.439	448.499	448.556	448.601	448.641	448.684	448.735	448.795	448.852	448.914	448.979	449.030	449.080	449.116	449.156
GIRD. B2	448.405	448.456	448.510	448.572	448.628	448.679	448.727	448.776	448.826	448.892	448.957	449.024	449.086	449.145	449.197	449.244	449.289	449.334	449.385	449.439	449.500	449.562	449.621	449.676	449.726	449.766	449.796

See Note A - Sh. No. 65.

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

TABLES OF ELEVATIONS

SPANS BC5 THRU B10

POPLAR STREET BRIDGE APPROACHES
ROADWAY "B"

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

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

SHEET 66 OF 241

DESIGNED BY RMR
DRAWN BY TS
CHECKED BY RMR
APPROVED BY EVA

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.I.-70	82-3HVB	ST. CLAIR	789	102
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

ROADWAY "B" SPAN B11

D.L. DEFLECTION (FT.)

BEAMS	L8	+10	+20	+30	+40	+50	+60	+70	L9
B1	.000	.060	.108	.137	.142	.125	.085	.030	.000
B2 thru B4	.000	.045	.081	.102	.107	.095	.066	.025	.000
B5	.000	.059	.107	.136	.143	.127	.090	.038	.000

THEORETICAL ELEVATION TOP OF CONCRETE

B1	447.828	447.868	447.912	447.961	448.015	448.073	448.135	448.202	448.235
B2	448.468	448.507	448.552	448.600	448.654	448.711	448.773	448.839	448.875
B3	449.108	449.147	449.191	449.240	449.292	449.350	449.411	449.477	449.515
B4	449.748	449.787	449.831	449.879	449.931	449.988	450.049	450.115	450.155
B5	450.388	450.427	450.470	450.518	450.570	450.627	450.688	450.753	450.795

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION

B1	447.828	447.928	448.021	448.099	448.158	448.198	448.220	448.232	448.235
B2	448.468	448.553	448.633	448.703	448.761	448.807	448.839	448.865	448.875
B3	449.108	449.192	449.272	449.343	449.400	449.445	449.477	449.503	449.515
B4	449.748	449.832	449.912	449.982	450.039	450.084	450.116	450.141	450.155
B5	450.388	450.486	450.577	450.654	450.714	450.755	450.778	450.791	450.795

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION - SLAB THICKNESS (7")

B1	447.244	447.345	447.437	447.515	447.574	447.615	447.637	447.648	447.652
B2	447.884	447.969	448.050	448.120	448.178	448.223	448.256	448.282	448.292
B3	448.524	448.609	448.689	448.759	448.817	448.862	448.894	448.920	448.932
B4	449.164	449.249	449.328	449.398	449.456	449.500	449.532	449.557	449.572
B5	449.804	449.903	449.994	450.071	450.130	450.171	450.195	450.208	450.212

ROADWAY "C" SPAN C11

D.L. DEFLECTION (FT.)

BEAMS	L8	+10	+20	+30	+40	+50	+60	+70	L9
C1	.000	.060	.108	.137	.142	.125	.085	.030	.000
C2 thru C4	.000	.045	.081	.102	.107	.095	.066	.025	.000
C5	.000	.059	.107	.136	.143	.127	.090	.038	.000

THEORETICAL ELEVATION TOP OF CONCRETE

C1	449.748	449.788	449.832	449.881	449.935	449.993	450.055	450.122	450.155
C2	450.388	450.427	450.472	450.520	450.574	450.631	450.693	450.759	450.795
C3	451.028	451.067	451.111	451.160	451.212	451.270	451.331	451.397	451.435
C4	451.668	451.707	451.751	451.799	451.851	451.908	451.969	452.035	452.075
C5	452.308	452.347	452.390	452.438	452.490	452.547	452.608	452.673	452.715

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION

C1	449.748	449.848	449.941	450.019	450.078	450.118	450.140	450.152	450.155
C2	450.388	450.473	450.553	450.623	450.681	450.727	450.759	450.785	450.795
C3	451.028	451.112	451.192	451.263	451.320	451.365	451.397	451.423	451.435
C4	451.668	451.752	451.832	451.902	451.959	452.004	452.036	452.061	452.075
C5	452.308	452.406	452.497	452.574	452.634	452.675	452.698	452.711	452.715

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION - SLAB THICKNESS (7")

C1	449.164	449.265	449.357	449.435	449.494	449.535	449.557	449.568	449.572
C2	449.804	449.889	449.970	450.040	450.098	450.143	450.176	450.202	450.212
C3	450.444	450.529	450.609	450.679	450.737	450.782	450.814	450.840	450.852
C4	451.084	451.169	451.248	451.318	451.376	451.420	451.452	451.477	451.492
C5	451.724	451.823	451.914	451.991	452.050	452.091	452.115	452.128	452.132

ROADWAY B SPAN B27

D.L. DEFLECTION (FT.)

BEAMS	L18	+10	+20	+30	+40	+50	+60	+70	+80	+90	+100	L19
B1	.000	.086	.160	.217	.255	.273	.270	.248	.206	.144	.065	.000
B2 thru B4	.000	.064	.119	.162	.191	.205	.204	.188	.157	.112	.058	.000
B5	.000	.085	.158	.215	.253	.272	.274	.251	.212	.154	.081	.000

THEORETICAL ELEVATION TOP OF CONCRETE

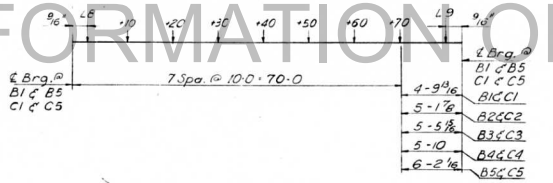
B1	447.970	447.815	447.662	447.512	447.364	447.219	447.076	446.938	446.804	446.674	446.549	446.466
B2	448.610	448.455	448.303	448.154	448.006	447.862	447.720	447.582	447.448	447.319	447.194	447.106
B3	449.250	449.096	448.944	448.795	448.649	448.505	448.363	448.226	448.092	447.964	447.840	447.746
B4	449.890	449.736	449.586	449.437	449.291	449.148	449.007	448.870	448.737	448.609	448.485	448.386
B5	450.530	450.377	450.227	450.079	449.933	449.790	449.650	449.513	449.381	449.254	449.130	449.026

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION

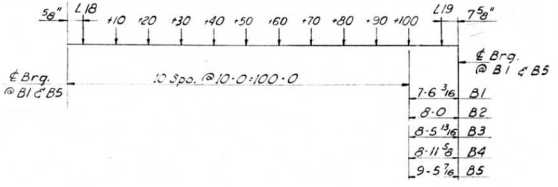
B1	447.970	447.901	447.822	447.729	447.619	447.492	447.347	447.186	447.010	446.818	446.615	446.466
B2	448.610	448.520	448.423	448.316	448.198	448.067	447.924	447.770	447.606	447.432	447.250	447.106
B3	449.250	449.161	449.064	448.958	448.840	448.710	448.567	448.414	448.250	448.077	447.895	447.746
B4	449.890	449.801	449.706	449.601	449.483	449.353	449.211	449.058	448.894	448.721	448.540	448.386
B5	450.530	450.463	450.385	450.294	450.187	450.063	449.922	449.765	449.594	449.408	449.211	449.026

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION - SLAB THICKNESS (7")

B1	447.386	447.318	447.239	447.146	447.036	446.909	446.764	446.603	446.426	446.235	446.032	445.883
B2	448.026	447.937	447.840	447.733	447.615	447.484	447.340	447.187	447.022	446.848	446.666	446.523
B3	448.666	448.577	448.481	448.375	448.257	448.127	447.984	447.831	447.667	447.493	447.312	447.163
B4	449.306	449.218	449.122	449.017	448.899	448.769	448.627	448.474	448.311	448.138	447.957	447.803
B5	449.946	449.879	449.802	449.711	449.603	449.479	449.338	449.182	449.010	448.825	448.628	448.443



ELEVATION LOCATION DIAGRAM
SPANS B11 & C11



ELEVATION LOCATION DIAGRAM
SPAN B27

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

TABLES OF ELEVATIONS
SPANS B11, C11 AND B27

POPLAR STREET BRIDGE APPROACHES
ROADWAYS "B" AND "C"

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

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

SHEET 67 of 241

D BY RMR
BY KB
I BY RMR
D BY KA

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	103
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

D.L. DEFLECTION (FT.)

	SPAN B 12										SPAN B 13												SPAN B 14									
FLOOR BEAMS	L10	L10.5	46	46.5	47	47.5	48	48.5	49	49.5	50	50.5	51	51.5	52	52.5	53	53.5	54	54.5	55	55.5	56	56.5	57	57.5	58	58.5	59	59.5	60	60.5	L11
	.000	.002	.009	.020	.035	.055	.079	.106	.135	.168	.200	.235	.271	.307	.339	.367	.390	.407	.419	.427	.431	.432	.432	.430	.425	.417	.406	.392	.375	.355	.332	.306	.277

THEORETICAL ELEVATION TOP OF CONCRETE

GIRD. B1	448,344	448,376	448,368	448,360	448,413	448,455	448,517	448,569	448,621	448,673	448,726	448,778	448,830	448,882	448,934	448,987	449,039	449,091	449,143	449,195	449,248	449,300	449,352	449,404	449,456	449,509	449,561	449,613	449,665	449,717	449,770	449,800	449,831
STR.	448,384	448,375	448,340	448,294	448,249	448,210	448,143	448,061	448,358	448,305	449,358	449,410	449,447	449,518	449,566	449,619	449,675	449,727	449,775	449,828	449,884	449,936	449,984	450,037	450,093	450,145	450,193	450,245	450,300	450,355	450,406	450,438	450,471
STR.	448,324	448,552	448,589	449,634	449,689	449,740	449,789	449,841	449,898	449,948	449,998	450,050	450,107	450,158	450,206	450,259	450,315	450,367	450,415	450,468	450,524	450,576	450,624	450,677	450,733	450,785	450,833	450,885	450,942	450,995	451,046	451,078	451,111
STR.	450,174	450,199	450,228	450,274	450,329	450,380	450,429	450,481	450,538	450,589	450,638	450,690	450,747	450,798	450,846	450,899	450,955	451,007	451,055	451,108	451,164	451,216	451,264	451,317	451,373	451,425	451,473	451,525	451,582	451,635	451,686	451,718	451,751
GIRD. B2	450,194	450,236	450,268	450,320	450,379	451,434	451,077	451,129	451,181	451,230	451,286	451,338	451,390	451,448	451,494	451,547	451,599	451,651	451,703	451,755	451,808	451,860	451,912	451,964	452,016	452,069	452,121	452,173	452,225	452,277	452,330	452,360	452,391

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION

GIRD. B1	448,344	448,385	448,387	448,391	448,448	448,500	448,547	448,590	448,635	448,678	448,726	448,783	448,845	448,910	448,974	449,034	449,089	449,138	449,183	449,233	449,283	449,336	449,352	449,407	449,467	449,529	449,591	449,648	449,701	449,748	449,788	449,803	449,831
STR.	448,384	448,375	448,361	449,084	449,265	449,136	449,179	449,222	449,268	449,313	449,358	449,415	449,482	449,546	449,606	449,666	449,726	449,774	449,815	449,866	449,900	449,941	449,984	450,039	450,104	450,165	450,223	450,281	450,338	450,385	450,425	450,440	450,471
STR.	448,324	448,556	449,601	449,664	449,735	449,776	449,819	449,862	449,908	449,958	449,998	450,055	450,122	450,186	450,246	450,306	450,366	450,414	450,455	450,496	450,540	450,581	450,624	450,679	450,744	450,805	450,863	450,921	450,978	451,025	451,065	451,080	451,111
STR.	450,174	450,196	450,241	450,304	450,365	450,416	450,459	450,508	450,548	450,596	450,638	450,695	450,758	450,826	450,886	450,946	451,006	451,056	451,096	451,136	451,180	451,221	451,264	451,319	451,384	451,445	451,503	451,561	451,618	451,665	451,705	451,720	451,751
GIRD. B2	450,194	450,240	450,287	450,351	451,008	451,060	451,107	451,150	451,196	451,236	451,286	451,343	451,405	451,470	451,534	451,594	451,649	451,698	451,743	451,783	451,823	451,865	451,912	451,967	452,027	452,089	452,151	452,208	452,261	452,308	452,348	452,363	452,391

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION - SLAB THICKNESS (7")

GIRD. B1	447,160	447,196	447,744	447,807	447,865	447,918	447,963	448,006	448,048	448,093	448,143	448,200	448,263	448,327	448,390	448,451	448,506	448,555	448,599	448,640	448,680	448,720	448,759	448,804	448,864	448,946	449,008	449,065	449,118	449,164	449,205	449,220	449,247
STR.	448,200	448,193	448,178	448,441	448,505	448,558	448,595	448,639	448,685	448,729	448,774	448,838	448,899	448,963	449,028	449,083	449,143	449,191	449,231	449,270	449,314	449,356	449,401	449,456	449,521	449,589	449,640	449,697	449,754	449,802	449,841	449,857	449,887
STR.	448,140	448,373	449,418	449,481	449,749	449,795	449,835	449,879	449,925	449,969	449,474	449,472	449,539	449,603	449,682	449,723	449,785	449,831	449,871	449,912	449,956	449,998	450,041	450,096	450,161	450,222	450,280	450,337	450,394	450,442	450,481	450,497	450,527
STR.	449,580	449,613	449,758	449,791	449,788	449,838	449,875	449,919	449,965	450,009	450,054	450,112	450,175	450,243	450,302	450,363	450,423	450,471	450,511	450,552	450,594	450,638	450,681	450,736	450,801	450,862	450,920	450,977	451,034	451,082	451,121	451,137	451,167
GIRD. B2	450,195	450,258	45,304	450,367	450,431	450,478	450,523	450,566	450,608	450,653	450,708	450,760	450,823	450,887	450,950	451,011	451,066	451,115	451,159	451,200	451,240	451,285	451,329	451,384	451,444	451,506	451,568	451,625	451,678	451,724	451,765	451,781	451,807

See Note A-Sh. No. 65.

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

TABLES OF ELEVATIONS
SPANS B12 THRU B14

POPLAR STREET BRIDGE APPROACHES
ROADWAY "B"

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

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

SHEET 68 OF 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	104
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

D.L. DEFLECTION (FT.)

	SPAN B15												SPAN B16								
FLOOR BEAMS	L12	L12.5	61	61.5	62	62.5	63	63.5	64	64.5	65	65.5	66	66.5	67	67.5	68	68.5	69	69.5	70	70.5
	.000	.004	.020	.032	.038	.038	.032	.022	.011	.003	.000	.002	.010	.021	.031	.039	.041	.038	.030	.019	.008	.001

THEORETICAL ELEVATION TOP OF CONCRETE

GIRD. B1	449.845	449.878	449.912	449.965	450.019	450.072	450.126	450.179	450.233	450.287	450.340	450.394	450.447	450.501	450.554	450.608	450.662	450.715	450.769	450.822	450.876	450.929
STR.	450.485	450.514	450.545	450.598	450.656	450.708	450.758	450.811	450.870	450.925	450.979	451.026	451.064	451.137	451.186	451.240	451.298	451.351	451.400	451.454	451.513	451.565
STR.	451.125	451.154	451.185	451.238	451.296	451.348	451.398	451.451	451.510	451.568	451.618	451.666	451.724	451.777	451.826	451.880	451.938	451.991	452.040	452.094	452.153	452.205
STR.	451.765	451.794	451.825	451.878	451.936	451.988	452.038	452.091	452.150	452.208	452.258	452.306	452.364	452.417	452.466	452.520	452.578	452.631	452.680	452.734	452.793	452.845
GIRD. B2	452.405	452.438	452.472	452.525	452.579	452.632	452.686	452.739	452.793	452.847	452.900	452.954	453.007	453.061	453.114	453.168	453.222	453.275	453.329	453.382	453.436	453.489

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION

GIRD. B1	449.845	449.883	449.933	449.998	450.057	450.110	450.158	450.202	450.245	450.290	450.340	450.396	450.458	450.588	450.586	450.647	450.703	450.754	450.799	450.848	450.885	450.931
STR.	450.485	450.519	450.568	450.631	450.695	450.746	450.790	450.834	450.881	450.926	450.979	451.028	451.064	451.158	451.218	451.279	451.340	451.389	451.431	451.474	451.521	451.567
STR.	451.125	451.159	451.206	451.271	451.335	451.386	451.430	451.474	451.521	451.568	451.618	451.668	451.734	451.798	451.858	451.919	451.980	452.029	452.071	452.114	452.161	452.207
STR.	451.765	451.799	451.846	451.911	451.975	452.026	452.070	452.114	452.161	452.208	452.258	452.308	452.374	452.438	452.498	452.559	452.620	452.669	452.711	452.754	452.801	452.847
GIRD. B2	452.405	452.443	452.493	452.558	452.617	452.670	452.718	452.762	452.805	452.850	452.900	452.956	453.018	453.082	453.146	453.207	453.263	453.314	453.359	453.402	453.445	453.491

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION - SLAB THICKNESS (7")

GIRD. B1	449.262	449.299	449.349	449.415	449.474	449.527	449.575	449.618	449.661	449.707	449.757	449.813	449.874	449.939	450.003	450.064	450.120	450.175	450.219	450.269	450.301	450.348
STR.	449.902	449.935	449.983	450.048	450.111	450.163	450.206	450.250	450.298	450.343	450.395	450.445	450.511	450.575	450.635	450.695	450.757	450.806	450.848	450.891	450.938	450.984
STR.	450.540	450.575	450.623	450.688	450.751	450.803	450.846	450.890	450.938	450.985	451.035	451.085	451.151	451.215	451.275	451.336	451.397	451.446	451.488	451.531	451.578	451.624
STR.	451.182	451.215	451.263	451.328	451.391	451.443	451.486	451.530	451.578	451.625	451.675	451.731	451.791	451.855	451.915	451.976	452.037	452.086	452.128	452.171	452.218	452.264
GIRD. B2	451.822	451.859	451.909	451.975	452.034	452.087	452.135	452.178	452.221	452.267	452.317	452.373	452.434	452.499	452.563	452.624	452.680	452.730	452.776	452.818	452.861	452.908

D.L. DEFLECTION (FT.)

	SPAN B17															SPAN B18						
FLOOR BEAMS	71	71.5	72	72.5	73	73.5	74	74.5	75	75.5	76	76.5	77	77.5	78	78.5	79	79.5	80	80.5	81	81.5	L13
	.000	.001	.008	.019	.030	.038	.041	.039	.031	.021	.010	.002	.000	.003	.011	.020	.028	.038	.038	.032	.020	.004	.000

THEORETICAL ELEVATION TOP OF CONCRETE

GIRD. B1	450.983	451.039	451.090	451.143	451.197	451.250	451.304	451.356	451.411	451.465	451.518	451.572	451.625	451.679	451.734	451.776	451.825	451.867	451.909	451.950	451.989	452.032	452.084
STR.	451.614	451.668	451.726	451.779	451.828	451.882	451.941	451.993	452.043	452.097	452.155	452.207	452.267	452.317	452.364	452.413	452.454	452.499	452.546	452.587	452.625	452.669	452.674
STR.	452.254	452.308	452.366	452.419	452.468	452.522	452.581	452.633	452.683	452.737	452.795	452.847	452.897	452.950	453.004	453.052	453.094	453.139	453.186	453.227	453.265	453.289	453.314
STR.	452.894	452.948	453.006	453.059	453.108	453.162	453.221	453.273	453.323	453.377	453.435	453.487	453.537	453.590	453.644	453.690	453.734	453.779	453.819	453.857	453.905	453.929	453.954
GIRD. B2	453.543	453.596	453.650	453.703	453.757	453.810	453.864	453.917	453.971	454.025	454.079	454.132	454.185	454.237	454.288	454.336	454.382	454.427	454.469	454.510	454.549	454.572	454.594

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION

GIRD. B1	450.983	451.038	451.089	451.143	451.197	451.250	451.304	451.357	451.411	451.465	451.518	451.574	451.625	451.681	451.736	451.778	451.825	451.905	451.949	451.983	452.030	452.080	452.134
STR.	451.614	451.670	451.735	451.799	451.859	451.951	451.982	452.038	452.095	452.151	452.210	452.270	452.357	452.415	452.476	452.536	452.596	452.637	452.686	452.730	452.645	452.663	452.674
STR.	452.254	452.310	452.375	452.439	452.499	452.561	452.622	452.678	452.735	452.756	452.865	452.885	452.897	452.963	453.016	453.074	453.126	453.177	453.225	453.260	453.285	453.293	453.314
STR.	452.894	452.950	453.015	453.079	453.139	453.201	453.262	453.312	453.365	453.391	453.445	453.496	453.537	453.593	453.656	453.714	453.765	453.817	453.862	453.903	453.933	453.954	
GIRD. B2	453.543	453.598	453.659	453.723	453.787	453.849	453.906	453.957	454.003	454.044	454.084	454.134	454.185	454.241	454.299	454.358	454.415	454.467	454.508	454.543	454.570	454.576	454.594

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION - SLAB THICKNESS (7")

GIRD. B1	450.399	450.456	450.515	450.580	450.644	450.705	450.769	450.823	450.880	450.933	450.993	451.049	451.104	451.166	451.215	451.271	451.325	451.365	451.400	451.426	451.433	451.451
STR.	451.031	451.087	451.152	451.215	451.276	451.337	451.399	451.449	451.491	451.535	451.582	451.627	451.674	451.730	451.793	451.851	451.903	451.954	452.001	452.037	452.062	452.077	452.091
STR.	451.671	451.727	451.792	451.855	451.916	451.977	452.039	452.089	452.131	452.175	452.225	452.267	452.314	452.370	452.433	452.491	452.543	452.594	452.641	452.677	452.702	452.716	452.731
STR.	452.311	452.367	452.432	452.495	452.556	452.617	452.679	452.729	452.771	452.815	452.865	452.907	452.954	453.010	453.073	453.131	453.183	453.234	453.281	453.317	453.342	453.360	453.371
GIRD. B2	452.959	453.015	453.075	453.139	453.204	453.265	453.323	453.373	453.420	453.468	453.515	453.561	453.606	453.656	453.710	453.770	453.827	453.880	453.925	453.960	453.986	453.993	454.011

See Note A - Sh. No. 65

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

TABLES OF ELEVATIONS
SPANS B15 THRU B18

POPLAR STREET BRIDGE APPROACHES
ROADWAY "B"

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

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

SHEET 69 of 241

BY RMR
CK FB
BY RMR
D BY KA

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	105
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

D.L. DEFLECTION (FT.)

FLOOR BEAMS	SPAN B 19										SPAN B 20										
	L14	L14.5	82	82.5	83	83.5	84	84.5	85	85.5	86	86.5	87	87.5	88	88.5	89	89.5	90	90.5	91	91.5
	.000	.004	.010	.022	.038	.036	.032	.022	.011	.003	.000	.002	.010	.021	.031	.039	.041	.038	.030	.019	.008	.001

THEORETICAL ELEVATION TOP OF CONCRETE

GIRD. B1	452.043	452.065	452.085	452.116	452.146	452.173	452.199	452.223	452.245	452.264	452.282	452.298	452.312	452.324	452.335	452.343	452.349	452.354	452.356	452.357	452.355	452.352
STR.	452.683	452.700	452.718	452.743	452.783	452.809	452.831	452.855	452.881	452.900	452.914	452.930	452.949	452.960	452.966	452.975	452.986	452.989	452.988	452.989	452.992	452.988
STR.	453.169	453.340	453.358	453.389	453.423	453.449	453.471	453.495	453.521	453.540	453.554	453.570	453.589	453.600	453.606	453.615	453.626	453.629	453.628	453.629	453.639	453.628
STR.	453.963	453.980	453.998	454.029	454.063	454.089	454.111	454.135	454.161	454.180	454.194	454.210	454.229	454.240	454.246	454.255	454.266	454.269	454.268	454.269	454.272	454.268
GIRD. B2	454.603	454.625	454.645	454.676	454.706	454.733	454.759	454.783	454.805	454.824	454.842	454.858	454.872	454.884	454.895	454.903	454.909	454.914	454.916	454.916	454.915	454.912

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION

GIRD. B1	452.043	452.069	452.106	452.149	452.185	452.212	452.231	452.245	452.256	452.268	452.282	452.301	452.323	452.346	452.367	452.382	452.391	452.392	452.386	452.376	452.364	452.354
STR.	452.683	452.705	452.739	452.792	452.822	452.847	452.863	452.877	452.893	452.904	452.914	452.933	452.959	452.981	452.998	453.014	453.027	453.028	453.018	453.008	453.001	452.989
STR.	453.323	453.345	453.379	453.422	453.462	453.487	453.503	453.517	453.533	453.544	453.554	453.573	453.599	453.621	453.638	453.654	453.667	453.668	453.658	453.648	453.641	453.629
STR.	453.963	453.985	454.019	454.062	454.102	454.127	454.143	454.157	454.173	454.184	454.194	454.213	454.239	454.261	454.278	454.294	454.307	454.308	454.298	454.288	454.281	454.269
GIRD. B2	454.603	454.629	454.666	454.709	454.745	454.772	454.791	454.805	454.816	454.828	454.842	454.861	454.883	454.906	454.927	454.942	454.951	454.952	454.946	454.936	454.924	454.914

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION - SLAB THICKNESS (7")

GIRD. B1	451.460	451.486	451.523	451.566	451.601	451.628	451.648	451.662	451.673	451.685	451.699	451.717	451.739	451.762	451.783	451.799	451.807	451.809	451.803	451.793	451.781	451.770
STR.	452.100	452.122	452.156	452.199	452.238	452.264	452.280	452.294	452.309	452.320	452.331	452.349	452.376	452.398	452.415	452.431	452.444	452.444	452.435	452.425	452.417	452.406
STR.	452.740	452.762	452.796	452.839	452.878	452.904	452.920	452.934	452.949	452.960	452.971	452.989	453.016	453.038	453.055	453.071	453.084	453.084	453.075	453.065	453.057	453.046
STR.	453.380	453.402	453.436	453.479	453.518	453.544	453.560	453.574	453.589	453.600	453.611	453.629	453.656	453.678	453.695	453.711	453.724	453.724	453.715	453.705	453.697	453.686
GIRD. B2	454.020	454.046	454.083	454.126	454.161	454.188	454.208	454.222	454.233	454.244	454.259	454.277	454.299	454.322	454.343	454.359	454.367	454.369	454.363	454.353	454.341	454.330

D.L. DEFLECTION (FT.)

FLOOR BEAMS	SPAN B 21										SPAN B 22										
	92	92.5	93	93.5	94	94.5	95	95.5	96	96.5	97	97.5	98	98.5	99	99.5	100	100.5	101	101.5	102	102.5	L15
	.000	.001	.008	.019	.030	.038	.041	.039	.031	.021	.010	.002	.000	.003	.011	.022	.032	.038	.038	.032	.020	.004	.000

THEORETICAL ELEVATION TOP OF CONCRETE

GIRD. B1	452.347	452.339	452.330	452.319	452.306	452.291	452.275	452.256	452.235	452.212	452.188	452.161	452.133	452.103	452.070	452.036	452.000	451.962	451.922	451.880	451.836	451.808	451.779
STR.	452.978	452.972	452.967	452.955	452.938	452.923	452.911	452.891	452.867	452.844	452.825	452.797	452.765	452.735	452.707	452.672	452.632	452.594	452.559	452.517	452.472	452.445	452.419
STR.	453.618	453.612	453.607	453.595	453.578	453.563	453.551	453.531	453.507	453.484	453.465	453.437	453.405	453.375	453.347	453.312	453.272	453.234	453.199	453.157	453.112	453.085	453.059
STR.	454.256	454.252	454.247	454.235	454.218	454.203	454.191	454.171	454.147	454.124	454.105	454.077	454.045	454.015	453.987	453.952	453.912	453.874	453.839	453.797	453.752	453.725	453.699
GIRD. B2	454.907	454.899	454.890	454.879	454.866	454.851	454.835	454.816	454.795	454.772	454.748	454.721	454.693	454.663	454.630	454.596	454.560	454.522	454.482	454.440	454.396	454.368	454.339

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION

GIRD. B1	452.347	452.341	452.332	452.339	452.337	452.330	452.316	452.295	452.267	452.234	452.198	452.164	452.133	452.106	452.082	452.058	452.032	452.000	451.961	451.913	451.857	451.812	451.779
STR.	452.978	452.973	452.976	452.975	452.968	452.962	452.953	452.931	452.899	452.866	452.835	452.800	452.765	452.738	452.719	452.694	452.664	452.632	452.597	452.550	452.493	452.449	452.419
STR.	453.618	453.613	453.616	453.615	453.608	453.602	453.593	453.571	453.539	453.506	453.475	453.440	453.405	453.378	453.359	453.334	453.304	453.272	453.237	453.190	453.133	453.089	453.059
STR.	454.256	454.253	454.256	454.255	454.248	454.242	454.233	454.211	454.179	454.146	454.115	454.080	454.045	454.018	453.999	453.974	453.944	453.912	453.877	453.830	453.773	453.729	453.699
GIRD. B2	454.907	454.901	454.899	454.899	454.897	454.890	454.876	454.855	454.827	454.794	454.758	454.724	454.693	454.666	454.642	454.618	454.592	454.560	454.521	454.473	454.417	454.372	454.339

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION - SLAB THICKNESS (7")

GIRD. B1	451.760	451.758	451.756	451.756	451.753	451.747	451.733	451.712	451.684	451.650	451.615	451.581	451.550	451.523	451.499	451.475	451.449	451.417	451.377	451.330	451.274	451.229	451.196
STR.	452.395	452.390	452.393	452.391	452.385	452.379	452.369	452.347	452.315	452.282	452.252	452.216	452.181	452.155	452.135	452.111	452.081	452.049	452.014	451.967	451.910	451.866	451.836
STR.	453.035	453.030	453.033	453.031	453.025	453.019	453.009	452.987	452.955	452.922	452.892	452.856	452.821	452.795	452.775	452.751	452.721	452.689	452.654	452.607	452.550	452.508	452.476
STR.	453.675	453.670	453.673	453.671	453.665	453.659	453.649	453.627	453.595	453.562	453.532	453.496	453.461	453.435	453.415	453.391	453.361	453.329	453.294	453.247	453.190	453.146	453.116
GIRD. B2	454.323	454.318	454.316	454.315	454.313	454.306	454.293	454.272	454.244	454.210	454.175	454.140	454.110	454.083	454.059	454.035	454.009	453.977	453.937	453.890	453.834	453.789	453.756

ED BY RMR
BY VB
ED BY RMR
VED BY KA

See Note 4 - Sh No. 65.

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

TABLES OF ELEVATIONS
SPANS B19 THRU B22

POPLAR STREET BRIDGE APPROACHES
ROADWAY "B"

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

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

SHEET 70 OF 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. – 70	82-3HVB	ST. CLAIR	289	106
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

D.L. DEFLECTION (FT.)

FLOOR BEAMS	SPAN B 23												SPAN B 24								
	L 16	L 16.5	103	103.5	104	104.5	105	105.5	106	106.5	107	107.5	108	108.5	109	109.5	110	110.5	111	111.5	112	112.5
	.000	.004	.010	.018	.028	.039	.052	.066	.081	.095	.109	.122	.134	.145	.154	.161	.166	.168	.167	.163	.156	.145

THEORETICAL ELEVATION TOP OF CONCRETE

GIRD. B1	451.766	451.736	451.704	451.655	451.621	451.567	451.490	451.421	451.377	451.307	451.243	451.178	451.104	451.027	450.965	450.891	450.814	450.736	450.656	450.574	450.491	450.405
STR.	452.406	452.372	452.339	452.288	452.259	452.183	452.121	452.063	452.027	451.960	451.894	451.808	451.744	451.673	451.597	451.523	451.451	451.378	451.299	451.206	451.127	451.042
STR.	453.046	453.012	452.979	452.928	452.895	452.821	452.761	452.703	452.667	452.602	452.536	452.448	452.384	452.313	452.237	452.163	452.091	452.020	451.938	451.846	451.767	451.680
STR.	453.686	453.652	453.619	453.568	453.535	453.462	453.403	453.343	453.307	453.243	453.179	453.094	453.034	452.963	452.877	452.803	452.731	452.658	452.578	452.486	452.407	452.320
GIRD. B2	454.326	454.296	454.266	454.214	454.181	454.109	454.052	453.991	453.957	453.893	453.830	453.738	453.688	453.627	453.595	453.521	453.374	453.296	453.216	453.134	453.050	452.965

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION

GIRD. B1	451.766	451.741	451.727	451.688	451.649	451.606	451.586	451.453	451.381	451.311	451.243	451.179	451.118	451.059	450.997	450.930	450.856	450.778	450.697	450.594	450.499	450.406
STR.	452.406	452.377	452.360	452.321	452.277	452.207	452.153	452.085	452.038	451.969	451.894	451.833	451.765	451.694	451.628	451.562	451.493	451.417	451.338	451.237	451.134	451.043
STR.	453.046	453.017	453.000	452.961	452.917	452.840	452.793	452.725	452.678	452.609	452.541	452.457	452.395	452.324	452.268	452.208	452.135	452.059	451.978	451.882	451.778	451.683
STR.	453.686	453.657	453.642	453.601	453.557	453.501	453.433	453.366	453.328	453.259	453.194	453.101	453.035	452.974	452.908	452.842	452.773	452.690	452.598	452.506	452.415	452.328
GIRD. B2	454.326	454.301	454.287	454.247	454.206	454.145	454.095	454.033	453.994	453.930	453.867	453.738	453.679	453.618	453.587	453.490	453.415	453.335	453.247	453.154	453.059	452.964

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION – SLAB THICKNESS (7")

GIRD. B1	451.183	451.117	451.143	451.104	451.067	451.101	450.938	450.870	450.796	450.787	450.659	450.595	450.535	450.475	450.413	450.347	450.273	450.191	450.113	450.010	449.916	449.823
STR.	451.123	451.793	451.777	451.737	451.694	451.637	451.572	451.502	451.455	451.385	451.320	451.231	451.157	451.111	451.045	450.979	450.909	450.827	450.735	450.642	450.552	450.459
STR.	453.463	453.433	453.417	453.377	453.334	453.277	453.227	453.140	453.092	453.023	452.955	452.867	452.811	452.751	452.685	452.618	452.545	452.465	452.378	452.282	452.195	452.099
STR.	453.103	453.073	453.057	453.017	452.974	452.917	452.850	452.782	452.738	452.671	452.607	452.521	452.461	452.401	452.335	452.269	452.198	452.117	452.035	451.939	451.855	451.769
GIRD. B2	453.743	453.717	453.703	453.664	453.617	453.561	453.496	453.436	453.394	453.330	453.267	453.138	453.079	453.018	452.987	452.906	452.835	452.751	452.663	452.570	452.476	452.383

D.L. DEFLECTION (FT.)

FLOOR BEAMS	SPAN B 25												SPAN B 26								
	113	113.5	114	114.5	115	115.5	116	116.5	117	117.5	118	118.5	119	119.5	120	120.5	121	121.5	122	122.5	123	123.5	L 17
	.000	.001	.008	.019	.037	.059	.087	.121	.161	.208	.260	.318	.380	.446	.515	.585	.655	.724	.790	.851	.906	.953	.990

THEORETICAL ELEVATION TOP OF CONCRETE

GIRD. B1	450.317	450.288	450.136	450.043	449.947	449.897	449.776	449.649	449.596	449.527	449.455	449.324	449.174	449.021	448.885	448.769	448.690	448.590	448.487	448.393	448.276	448.189
STR.	450.949	450.860	450.773	450.678	450.579	450.483	450.387	450.289	450.237	450.138	450.038	449.870	449.740	449.635	449.529	449.402	449.295	449.188	449.064	448.950	448.795	448.711
STR.	451.589	451.510	451.413	451.318	451.219	451.123	451.027	450.930	450.877	450.779	450.680	450.500	450.385	450.273	450.168	450.065	449.959	449.855	449.744	449.636	449.535	449.450
STR.	452.229	452.147	452.053	451.958	451.859	451.765	451.667	451.569	451.517	451.420	451.320	451.140	451.026	450.915	450.806	450.699	450.593	450.484	450.374	450.265	450.179	449.990
GIRD. B2	452.877	452.788	452.696	452.602	452.507	452.411	452.315	452.218	452.166	452.069	451.969	451.784	451.674	451.561	451.446	451.329	451.210	451.090	450.967	450.843	450.716	450.585

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION

GIRD. B1	450.317	450.289	450.145	450.062	449.973	449.888	449.796	449.688	449.636	449.582	449.524	449.397	449.274	449.174	448.997	448.891	448.785	448.683	448.586	448.516	448.421	448.379
STR.	450.949	450.861	450.782	450.688	450.606	450.590	450.499	450.384	450.328	450.230	450.130	449.987	449.883	449.745	449.654	449.534	449.427	449.314	449.202	449.083	448.993	448.874
STR.	451.589	451.501	451.409	451.338	451.243	451.150	451.068	450.964	450.909	450.809	450.709	450.529	450.387	450.276	450.174	450.067	449.964	449.860	449.753	449.655	449.564	449.458
STR.	452.229	452.141	452.060	451.978	451.885	451.805	451.724	451.624	451.569	451.474	451.380	451.200	451.085	450.977	450.874	450.767	450.664	450.560	450.453	450.353	450.264	450.166
GIRD. B2	452.877	452.789	452.715	452.629	452.538	452.448	452.358	452.268	452.218	452.123	452.024	451.844	451.737	451.624	451.507	451.393	451.283	451.173	451.066	450.976	450.878	450.779

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION – SLAB THICKNESS (7")

GIRD. B1	449.734	449.646	449.502	449.479	449.354	449.305	449.209	449.105	448.994	448.979	448.780	448.644	448.530	448.451	448.314	448.208	448.095	447.985	447.863	447.735	447.590	447.495	447.406
STR.	450.365	450.278	450.198	450.115	450.056	449.937	449.845	449.741	449.654	449.647	449.397	449.275	449.115	449.065	448.950	448.843	448.731	448.617	448.499	448.370	448.230	448.135	448.046
STR.	451.005	450.918	450.838	450.755	450.666	450.577	450.485	450.381	450.324	450.227	450.127	449.918	449.809	449.695	449.590	449.483	449.371	449.257	449.139	449.017	448.870	448.772	448.686
STR.	451.645	451.558	451.478	451.395	451.304	451.217	451.125	451.021	450.964	450.867	450.767	450.577	450.469	450.355	450.230	450.123	450.011	449.897	449.779	449.650	449.510	449.419	449.326
GIRD. B2	452.284	452.196	452.122	452.039	451.954	451.865	451.788	451.680	451.624	451.534	451.434	451.250	451.143	451.030	450.913	450.796	450.681	450.574	450.468	450.359	450.255	450.155	450.066	449.966

See Note A - Sh. No 65

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

TABLES OF ELEVATIONS

SPANS B23 THRU B26

POPLAR STREET BRIDGE APPROACHES
ROADWAY "B"

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

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

SHEET 71 of 24

BY RMR
KB
RMR
KA

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	789	107
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

D.L. DEFLECTION (FT.)

	SPAN B 28										SPAN B 29										SPAN B 30									
FLOOR BEAMS	L20	20.5	124	124.5	125	125.5	126	126.5	127	127.5	128	128.5	129	129.5	130	130.5	131	131.5	132	132.5	133	133.5	134	134.5	135	135.5	136	136.5	137	137.5	138	138.5	L21
	.000	.006	.021	.031	.035	.034	.029	.020	.010	.002	.000	.005	.015	.027	.039	.047	.050	.047	.039	.027	.015	.005	.000	.002	.010	.019	.029	.034	.035	.031	.022	.007	.000

THEORETICAL ELEVATION TOP OF CONCRETE

GIRD. B1	448.428	448.338	448.248	448.110	445.971	445.832	445.693	445.555	445.416	445.277	445.139	445.000	444.861	444.723	444.584	444.445	444.307	444.168	444.029	443.891	443.752	443.613	443.475	443.336	443.198	443.059	442.920	442.782	442.643	442.504	442.366	442.266	442.167
STR.	447.068	446.974	446.882	446.743	446.605	446.468	446.326	446.187	446.053	445.913	445.771	445.632	445.498	445.359	445.216	445.078	444.943	444.804	444.661	444.523	444.389	444.249	444.107	443.969	443.834	443.695	443.552	443.414	443.280	443.141	443.001	442.903	442.807
STR.	447.708	447.614	447.522	447.383	447.248	447.108	446.966	446.827	446.693	446.553	446.411	446.272	446.138	445.999	445.856	445.718	445.583	445.444	445.301	445.163	445.029	444.889	444.747	444.609	444.474	444.335	444.192	444.054	443.920	443.781	443.641	443.543	443.447
STR.	448.348	448.254	448.162	448.023	447.888	447.748	447.606	447.467	447.333	447.193	447.051	446.912	446.778	446.639	446.496	446.358	446.223	446.084	445.941	445.803	445.669	445.529	445.387	445.249	445.114	444.975	444.832	444.694	444.560	444.421	444.281	444.183	444.087
GIRD. B2	448.988	448.898	448.808	448.670	448.531	448.392	448.253	448.115	447.976	447.837	447.699	447.560	447.421	447.283	447.144	447.005	446.867	446.728	446.589	446.451	446.312	446.173	446.035	445.896	445.758	445.619	445.480	445.342	445.903	445.064	444.926	444.826	444.727

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION

GIRD. B1	448.428	448.344	448.270	448.141	448.007	445.867	445.723	445.575	445.426	445.280	445.139	445.005	444.877	444.750	444.623	444.493	444.357	444.215	444.069	443.918	443.767	443.619	443.475	443.339	443.208	443.079	442.950	442.817	442.679	442.536	442.388	442.273	442.167
STR.	447.068	446.981	446.903	446.774	446.644	446.503	446.355	446.207	446.063	445.916	445.771	445.638	445.513	445.386	445.255	445.125	444.993	444.851	444.701	444.551	444.404	444.255	444.107	443.971	443.844	443.715	443.582	443.449	443.315	443.173	443.023	442.910	442.807
STR.	447.708	447.621	447.543	447.414	447.284	447.143	446.995	446.847	446.703	446.556	446.411	446.278	446.153	446.026	445.895	445.765	445.633	445.491	445.341	445.191	445.044	444.895	444.747	444.611	444.484	444.355	444.222	444.089	443.955	443.813	443.663	443.550	443.447
STR.	448.348	448.261	448.182	448.054	447.924	447.783	447.635	447.487	447.343	447.196	447.051	446.918	446.793	446.666	446.535	446.405	446.273	446.131	445.981	445.831	445.684	445.535	445.387	445.251	445.124	444.995	444.862	444.729	444.595	444.453	444.303	444.190	444.087
GIRD. B2	448.988	448.905	448.830	448.701	448.567	448.427	448.283	448.135	447.986	447.840	447.699	447.565	447.437	447.310	447.183	447.053	446.917	446.775	446.629	446.478	446.327	446.179	446.035	445.899	445.768	445.639	445.510	445.377	445.239	445.096	444.948	444.838	444.727

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION - SLAB THICKNESS (7")

GIRD. B1	445.845	445.761	445.686	445.558	445.423	445.284	445.139	444.992	444.843	444.697	444.555	444.422	444.293	444.167	444.040	443.909	443.773	443.632	443.485	443.335	443.184	443.036	442.892	442.756	442.624	442.496	442.366	442.233	442.096	441.953	441.804	441.690	441.583
STR.	446.485	446.397	446.320	446.191	446.060	445.920	445.772	445.624	445.480	445.333	445.188	445.054	444.930	444.803	444.672	444.542	444.410	444.268	444.117	443.967	443.821	443.671	443.524	443.388	443.261	443.131	442.998	442.866	442.732	442.590	442.440	442.327	442.223
STR.	447.125	447.037	446.960	446.831	446.701	446.560	446.412	446.264	446.120	445.973	445.828	445.694	445.570	445.443	445.312	445.182	445.050	444.908	444.757	444.607	444.461	444.311	444.164	444.028	443.901	443.771	443.638	443.506	443.372	443.230	443.080	442.967	442.863
STR.	447.765	447.677	447.600	447.471	447.340	447.200	447.052	446.904	446.760	446.613	446.468	446.334	446.210	446.083	445.952	445.822	445.690	445.548	445.397	445.247	445.101	444.951	444.804	444.668	444.541	444.411	444.278	444.146	444.012	443.870	443.720	443.607	443.503
GIRD. B2	448.405	448.321	448.246	448.118	447.983	447.844	447.699	447.552	447.403	447.257	447.115	446.982	446.853	446.727	446.600	446.469	446.333	446.192	446.045	445.895	445.744	445.595	445.452	445.316	445.184	445.056	444.926	444.793	444.656	444.513	444.364	444.258	444.143

See Note A - Sh. No. 65.

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

TABLES OF ELEVATIONS
SPANS B28 THRU B30

POPLAR STREET BRIDGE APPROACHES
ROADWAY "B"

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

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

SHEET 72 of 241

BY RMR
Y VB
BY RMR
D BY KA

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	108
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

D.L. DEFLECTION (FT.)

	SPAN BC 1												SPAN BC 2									
FLOOR BEAMS	L2	L2.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5
	.000	.005	.022	.033	.038	.038	.031	.021	.011	.003	.000	.007	.010	.021	.031	.039	.041	.038	.030	.019	.008	.001

THEORETICAL ELEVATION TOP OF CONCRETE

GIRD. C1	451.418	451.303	451.128	450.858	450.598	450.346	450.103	449.869	449.644	449.427	449.220	449.021	448.831	448.650	448.478	448.315	448.161	448.015	447.878	447.750	447.631	447.521
STR.	451.596	451.480	451.245	450.975	450.715	450.463	450.220	449.986	449.761	449.544	449.337	449.138	448.948	448.767	448.595	448.432	448.278	448.132	447.995	447.867	447.748	447.638
STR.	451.715	451.537	451.362	451.092	450.832	450.580	450.337	450.103	449.878	449.661	449.454	449.255	449.065	448.884	448.712	448.549	448.395	448.249	448.112	447.984	447.865	447.755
STR.	451.833	451.654	451.479	451.209	450.949	450.697	450.454	450.220	449.995	449.778	449.571	449.372	449.182	449.001	448.829	448.666	448.512	448.366	448.229	448.101	447.982	447.872
GIRD. C2	451.950	451.771	451.596	451.326	451.066	450.814	450.571	450.337	450.112	449.895	449.688	449.489	449.299	449.118	448.946	448.783	448.629	448.483	448.346	448.218	448.099	447.989

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION

GIRD. C1	451.418	451.309	451.150	450.892	450.637	450.384	450.135	449.891	449.655	449.431	449.220	449.029	448.842	448.672	448.510	448.354	448.202	448.053	447.909	447.770	447.640	447.523
STR.	451.599	451.486	451.267	451.009	450.754	450.501	450.252	450.008	449.772	449.548	449.337	449.146	448.959	448.789	448.627	448.471	448.319	448.170	448.026	447.887	447.757	447.640
STR.	451.718	451.543	451.384	451.126	450.871	450.618	450.369	450.125	449.889	449.665	449.454	449.263	449.076	448.906	448.744	448.588	448.436	448.287	448.143	448.004	447.874	447.757
STR.	451.833	451.660	451.501	451.243	450.988	450.735	450.486	450.242	450.006	449.782	449.571	449.380	449.193	449.023	448.861	448.705	448.553	448.404	448.260	448.121	447.991	447.874
GIRD. C2	451.950	451.777	451.618	451.360	451.105	450.852	450.603	450.359	450.123	449.899	449.688	449.497	449.310	449.140	448.978	448.822	448.670	448.521	448.377	448.238	448.108	447.991

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION - SLAB THICKNESS (7")

GIRD. C1	450.895	450.726	450.567	450.309	450.053	449.801	449.552	449.308	449.072	448.847	448.637	448.446	448.258	448.088	447.927	447.771	447.619	447.470	447.325	447.187	447.057	446.940
STR.	451.076	450.843	450.684	450.426	450.170	449.918	449.669	449.425	449.189	448.964	448.754	448.563	448.375	448.205	448.044	447.888	447.736	447.587	447.442	447.304	447.174	447.057
STR.	451.193	450.960	450.801	450.543	450.287	450.035	449.786	449.542	449.306	449.081	448.871	448.680	448.492	448.322	448.161	448.005	447.853	447.704	447.559	447.421	447.291	447.174
STR.	451.316	451.077	450.918	450.660	450.404	450.152	449.903	449.659	449.423	449.198	448.988	448.797	448.609	448.439	448.278	448.122	447.970	447.821	447.676	447.538	447.408	447.291
GIRD. C2	451.367	451.194	451.035	450.777	450.521	450.269	450.020	449.776	449.540	449.315	449.105	448.914	448.726	448.556	448.395	448.239	448.087	447.938	447.793	447.655	447.525	447.408

D.L. DEFLECTION (FT.)

	SPAN BC 3													SPAN BC 4								
FLOOR BEAMS	11	11.5	12	12.5	13	13.5	14	14.5	15	15.5	16	16.5	17	17.5	18	18.5	19	19.5	20	20.5	21	21.5	L3
	.000	.001	.008	.019	.030	.038	.041	.039	.031	.021	.010	.007	.000	.003	.011	.021	.031	.038	.038	.033	.022	.005	.000

THEORETICAL ELEVATION TOP OF CONCRETE

GIRD. C1	447.420	447.387	447.244	447.169	447.103	447.046	446.998	446.959	446.928	446.906	446.894	446.890	446.894	446.908	446.931	446.962	447.002	447.052	447.106	447.160	447.214	447.249	447.285
STR.	447.537	447.444	447.361	447.286	447.220	447.163	447.115	447.076	447.045	447.023	447.011	447.007	447.011	447.025	447.048	447.079	447.119	447.169	447.223	447.277	447.331	447.366	447.402
STR.	447.654	447.561	447.478	447.403	447.337	447.280	447.232	447.193	447.162	447.140	447.128	447.124	447.128	447.142	447.165	447.196	447.236	447.286	447.340	447.394	447.448	447.483	447.519
STR.	447.771	447.678	447.595	447.520	447.454	447.397	447.349	447.310	447.279	447.257	447.245	447.241	447.245	447.259	447.282	447.313	447.353	447.403	447.457	447.511	447.565	447.600	447.636
GIRD. C2	447.388	447.795	447.712	447.637	447.571	447.514	447.466	447.427	447.396	447.374	447.362	447.358	447.362	447.376	447.399	447.430	447.470	447.520	447.574	447.628	447.682	447.717	447.753

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION

GIRD. C1	447.420	447.389	447.253	447.189	447.134	447.085	447.039	446.998	446.960	446.928	446.904	446.897	446.894	446.912	446.942	446.984	447.034	447.090	447.144	447.193	447.236	447.255	447.285
STR.	447.537	447.446	447.370	447.306	447.251	447.202	447.156	447.115	447.077	447.045	447.021	447.014	447.011	447.029	447.059	447.101	447.151	447.207	447.261	447.310	447.353	447.372	447.402
STR.	447.654	447.563	447.487	447.423	447.368	447.319	447.273	447.232	447.194	447.162	447.138	447.131	447.128	447.146	447.176	447.218	447.268	447.324	447.378	447.427	447.470	447.489	447.519
STR.	447.771	447.680	447.604	447.540	447.485	447.436	447.390	447.349	447.311	447.279	447.255	447.248	447.245	447.263	447.293	447.335	447.385	447.441	447.495	447.544	447.587	447.606	447.636
GIRD. C2	447.388	447.797	447.721	447.657	447.602	447.553	447.507	447.466	447.428	447.396	447.372	447.365	447.362	447.380	447.410	447.452	447.502	447.558	447.612	447.661	447.704	447.723	447.753

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION - SLAB THICKNESS (7")

GIRD. C1	446.837	446.746	446.669	446.605	446.550	446.501	446.456	446.414	446.377	446.344	446.320	446.314	446.311	446.328	446.359	446.401	446.451	446.506	446.561	446.610	446.652	446.672	446.702
STR.	446.954	446.863	446.786	446.722	446.667	446.618	446.573	446.531	446.494	446.461	446.437	446.431	446.428	446.445	446.476	446.518	446.568	446.623	446.678	446.727	446.769	446.789	446.819
STR.	447.071	446.980	446.903	446.839	446.784	446.735	446.690	446.648	446.611	446.578	446.554	446.548	446.545	446.562	446.593	446.635	446.685	446.740	446.795	446.844	446.886	446.906	446.936
STR.	447.188	447.097	447.020	446.956	446.901	446.852	446.807	446.765	446.728	446.695	446.671	446.665	446.662	446.679	446.710	446.752	446.802	446.857	446.912	446.961	447.003	447.023	447.053
GIRD. C2	447.305	447.214	447.137	447.073	447.018	446.969	446.924	446.882	446.845	446.812	446.788	446.782	446.779	446.796	446.827	446.869	446.919	446.974	447.029	447.078	447.120	447.140	447.170

See Note 4 - Sh. No. 65

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

TABLES OF ELEVATIONS
SPANS BC1 THRU BC4
POPLAR STREET BRIDGE APPROACHES
ROADWAY "C"

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

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

SHEET 73 OF 241

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.I.-70	82-3HVB	ST. CLAIR	280	109
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

D.L. DEFLECTION (FT)

	SPAN BC 5								SPAN BC 6									SPAN C 7								
FLOOR BEAMS	L4	L4.5	22	22.5	23	23.5	24	24.5	25	25.5	26	26.5	27	27.5	28	28.5	29	29.5	30	30.5	31	31.5	32	32.5	33	33.5	L6
	.000	.007	.017	.021	.021	.016	.008	.002	.000	.004	.016	.027	.035	.038	.035	.027	.016	.006	.000	.002	.008	.016	.027	.035	.037	.008	.000

THEORETICAL ELEVATION TOP OF CONCRETE

GIRD. C1	447.293	447.337	447.381	447.435	447.489	447.543	447.597	447.651	447.705	447.759	447.813	447.867	447.921	447.975	448.029	448.083	448.131	448.177	448.223	448.264	448.304	448.339	448.405	448.451	448.496	448.534	448.572
STR.	447.410	447.454	447.498	447.552	447.606	447.660	447.714	447.768	447.822	447.876	447.930	447.984	448.038	448.092	448.146	448.200	448.271	448.348	448.424	448.501	448.578	448.655	448.732	448.808	448.886	448.950	449.014
STR.	447.527	447.571	447.615	447.669	447.723	447.777	447.831	447.885	447.939	447.993	448.047	448.101	448.155	448.209	448.263	448.317	448.410	448.518	448.627	448.735	448.843	448.951	449.059	449.167	449.276	449.366	449.456
STR.	447.644	447.688	447.732	447.786	447.840	447.894	447.948	448.002	448.056	448.110	448.164	448.218	448.272	448.326	448.380	448.434	448.550	448.689	448.829	448.968	449.108	449.247	449.387	449.526	449.665	449.782	449.898
GIRD. C2	447.761	447.805	447.849	447.903	447.957	448.011	448.065	448.119	448.173	448.227	448.281	448.335	448.389	448.443	448.497	448.551	448.690	448.860	449.031	449.202	449.372	449.543	449.714	449.884	450.055	450.197	450.339

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION

GIRD. C1	447.293	447.345	447.398	447.457	447.510	447.559	447.606	447.654	447.705	447.765	447.830	447.894	447.956	448.013	448.064	448.110	448.148	448.183	448.223	448.270	448.325	448.376	448.426	448.472	448.514	448.542	448.572
STR.	447.410	447.462	447.515	447.574	447.627	447.676	447.723	447.771	447.822	447.882	447.947	448.011	448.073	448.130	448.181	448.227	448.287	448.354	448.424	448.504	448.587	448.672	448.753	448.830	448.903	448.958	449.014
STR.	447.527	447.579	447.632	447.691	447.744	447.793	447.840	447.888	447.939	447.999	448.064	448.128	448.190	448.247	448.298	448.344	448.427	448.525	448.627	448.727	448.832	448.947	449.061	449.185	449.293	449.374	449.456
STR.	447.644	447.696	447.749	447.808	447.861	447.910	447.957	448.005	448.056	448.116	448.181	448.245	448.307	448.364	448.415	448.461	448.567	448.696	448.829	448.971	449.117	449.263	449.408	449.544	449.660	449.780	449.898
GIRD C2	447.761	447.813	447.866	447.925	447.978	448.027	448.074	448.122	448.173	448.233	448.298	448.362	448.424	448.481	448.532	448.578	448.706	448.867	449.037	449.204	449.381	449.559	449.735	449.906	450.075	450.205	450.339

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION − SLAB THICKNESS (T)

GIRD. C1	446.710	446.762	446.815	446.874	446.927	446.976	447.023	447.070	447.122	447.182	447.246	447.311	447.373	447.430	447.481	447.527	447.564	447.60	447.638	447.667	447.696	447.726	447.756	447.783	447.810	447.959	447.989
STR.	446.827	446.879	446.932	446.991	447.044	447.093	447.140	447.187	447.239	447.299	447.363	447.428	447.490	447.547	447.598	447.644	447.704	447.771	447.841	447.901	448.024	448.088	448.170	448.244	448.320	448.375	448.431
STR.	446.944	446.996	447.049	447.108	447.161	447.210	447.257	447.304	447.356	447.416	447.480	447.545	447.607	447.664	447.715	447.761	447.844	447.942	448.043	448.134	448.269	448.384	448.497	448.606	448.710	448.791	448.873
STR.	447.061	447.113	447.166	447.225	447.278	447.327	447.374	447.421	447.473	447.533	447.597	447.662	447.724	447.781	447.832	447.878	447.983	448.113	448.244	448.387	448.535	448.680	448.825	448.965	449.099	449.206	449.314
GIRD. C2	447.178	447.230	447.283	447.342	447.395	447.444	447.491	447.538	447.590	447.650	447.714	447.779	447.841	447.898	447.949	447.995	448.123	448.294	448.448	448.587	448.738	448.876	449.012	449.143	449.269	449.422	449.556

D.L. DEFLECTION (FT)

	SPAN C8								SPAN C9									SPAN C10								
FLOOR BEAMS	L6	L6.5	34	34.5	35	35.5	36	36.5	37	37.5	38	38.5	39	39.5	40	40.5	41	41.5	42	42.5	43	43.5	44	44.5	45	45.5	L7
	.000	.005	.016	.021	.021	.016	.008	.002	.000	.004	.016	.027	.035	.038	.035	.027	.016	.006	.000	.002	.008	.016	.027	.035	.037	.007	.000

THEORETICAL ELEVATION TOP OF CONCRETE

GIRD. C1	448.583	448.610	448.636	448.670	448.704	448.737	448.777	448.821	448.866	448.918	448.958	449.004	449.051	449.098	449.146	449.194	449.243	449.293	449.343	449.385	449.444	449.495	449.547	449.595	449.652	449.696	449.740
STR.	449.034	449.084	449.135	449.201	449.265	449.332	449.390	449.435	449.479	449.527	449.579	449.626	449.672	449.721	449.775	449.823	449.875	449.927	449.979	450.024	450.074	450.127	450.184	450.236	450.287	450.332	450.386
STR.	449.484	449.559	449.635	449.735	449.833	449.935	450.005	450.053	450.099	450.149	450.203	450.253	450.299	450.350	450.404	450.456	450.504	450.556	450.618	450.662	450.718	450.765	450.823	450.875	450.927	450.970	451.020
STR.	449.935	450.034	450.135	450.269	450.401	450.537	450.621	450.671	450.719	450.771	450.828	450.879	450.927	450.980	451.027	451.069	451.127	451.191	451.248	451.300	451.363	451.403	451.441	451.515	451.566	451.611	451.660
GIRD. C2	450.385	450.510	450.636	450.806	450.977	451.146	451.240	451.294	451.348	451.418	451.456	451.510	451.564	451.618	451.672	451.726	451.780	451.834	451.888	451.942	451.996	452.050	452.104	452.158	452.210	452.256	452.300

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION

GIRD. C1	448.583	448.616	448.652	448.692	448.725	448.754	448.786	448.824	448.866	448.918	448.974	449.031	449.086	449.136	449.181	449.222	449.260	449.299	449.343	449.386	449.453	449.513	449.568	449.620	449.668	449.704	449.740
STR.	449.034	449.089	449.151	449.222	449.286	449.349	449.399	449.438	449.479	449.533	449.595	449.654	449.707	449.759	449.810	449.858	449.887	449.927	449.979	450.029	450.083	450.143	450.205	450.258	450.304	450.340	450.386
STR.	449.484	449.565	449.651	449.757	449.854	449.952	450.015	450.056	450.099	450.156	450.220	450.280	450.335	450.389	450.441	450.483	450.526	450.562	450.618	450.668	450.731	450.781	450.844	450.897	450.944	450.979	451.020
STR.	449.935	450.040	450.151	450.291	450.422	450.554	450.630	450.674	450.719	450.778	450.845	450.906	450.962	451.018	451.070	451.116	451.154	451.197	451.248	451.300	451.358	451.419	451.481	451.536	451.583	451.619	451.660
GIRD C2	450.385	450.516	450.652	450.828	450.998	451.164	451.249	451.296	451.348	451.418	451.476	451.537	451.599	451.656	451.707	451.753	451.796	451.840	451.888	451.944	452.006	452.066	452.125	452.180	452.229	452.263	452.300

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION − SLAB THICKNESS (T)

GIRD. C1	448.000	448.032	448.068	448.108	448.142	448.170	448.203	448.241	448.283	448.335	448.391	448.448	448.503	448.553	448.598	448.638	448.677	448.716	448.758	448.810	448.872	448.929	448.985	449.038	449.086	449.120	449.156
STR.	448.450	448.506	448.567	448.639	448.703	448.766	448.816	448.855	448.896	448.950	449.012	449.070	449.123	449.176	449.227	449.267	449.303	449.344	449.388	449.446	449.500	449.560	449.625	449.675	449.721	449.756	449.796
STR.	448.901	448.981	449.068	449.173	449.271	449.368	449.431	449.473	449.516	449.572	449.637	449.697	449.751	449.805	449.856	449.900	449.937	449.979	450.025	450.085	450.138	450.196	450.261	450.314	450.360	450.396	450.436
STR.	449.351	449.456	449.568	449.707	449.839	449.971	450.047	450.091	450.136	450.196	450.261	450.323	450.379	450.435	450.489	450.533	450.571	450.614	450.665	450.726	450.778	450.836	450.899	450.950	451.000	451.036	451.076
GIRD. C2	449.809	449.933	450.069	450.245	450.415	450.581	450.685	450.713	450.765	450.825	450.889	450.954	451.015	451.073	451.124	451.169	451.213	451.257	451.304	451.361	451.421	451.483	451.542	451.596	451.645	451.680	451.716

EMR
KB
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See Note 4 Sh No 65.

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

TABLES OF ELEVATIONS
SPANS BC5 THRU C10
POPLAR STREET BRIDGE APPROACHES
ROADWAY "C"

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

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

SHEET 74 OF 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	110
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

D.L. DEFLECTION (FT.)

FLOOR BEAMS	SPAN C12															SPAN C13												SPAN C14										
	L10	L10.5	46	46.5	47	47.5	48	48.5	49	49.5	50	50.5	51	51.5	52	52.5	53	53.5	54	54.5	55	55.5	56	56.5	57	57.5	58	58.5	59	59.5	60	60.5	L11
	.000	.005	.020	.031	.035	.035	.029	.020	.010	.002	.000	.005	.015	.027	.039	.047	.050	.047	.039	.027	.015	.005	.000	.002	.010	.020	.029	.035	.035	.030	.019	.004	.000

THEORETICAL ELEVATION TOP OF CONCRETE

GIRD. C1	450.163	450.197	450.231	450.263	450.334	450.386	450.438	450.490	450.542	450.593	450.645	450.697	450.749	450.800	450.852	450.904	450.956	451.007	451.059	451.111	451.163	451.214	451.266	451.318	451.370	451.421	451.473	451.525	451.577	451.628	451.680	451.732	451.745
STR.	450.803	450.833	450.864	450.916	450.972	451.022	451.070	451.122	451.179	451.229	451.277	451.329	451.386	451.436	451.484	451.536	451.593	451.643	451.691	451.743	451.800	451.850	451.898	451.950	452.007	452.057	452.105	452.157	452.214	452.266	452.316	452.350	452.385
STR.	451.443	451.473	451.504	451.556	451.612	451.662	451.710	451.762	451.819	451.869	451.917	451.969	452.026	452.076	452.124	452.176	452.233	452.283	452.331	452.383	452.440	452.490	452.538	452.590	452.647	452.697	452.745	452.797	452.854	452.906	452.956	452.990	453.025
STR.	452.083	452.113	452.144	452.196	452.252	452.302	452.350	452.402	452.459	452.509	452.557	452.609	452.666	452.716	452.764	452.816	452.873	452.923	452.971	453.023	453.080	453.130	453.178	453.230	453.287	453.337	453.385	453.437	453.494	453.546	453.596	453.630	453.665
GIRD. C2	452.723	452.757	452.791	452.843	452.894	452.946	452.998	453.050	453.101	453.153	453.205	453.257	453.308	453.360	453.412	453.464	453.515	453.567	453.619	453.671	453.723	453.774	453.826	453.878	453.929	453.981	454.033	454.085	454.136	454.188	454.240	454.272	454.305

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION

GIRD. C1	450.163	450.202	450.252	450.314	450.370	450.421	450.468	450.510	450.552	450.596	450.645	450.702	450.764	450.828	450.891	450.951	451.006	451.055	451.098	451.139	451.178	451.220	451.266	451.321	451.380	451.442	451.503	451.560	451.612	451.659	451.700	451.717	451.745
STR.	450.803	450.838	450.885	450.947	451.007	451.057	451.100	451.143	451.189	451.232	451.277	451.335	451.401	451.464	451.523	451.584	451.643	451.691	451.730	451.771	451.815	451.856	451.898	451.953	452.017	452.078	452.135	452.193	452.249	452.296	452.336	452.354	452.385
STR.	451.443	451.478	451.525	451.587	451.647	451.697	451.740	451.783	451.829	451.872	451.917	451.975	452.041	452.104	452.163	452.224	452.283	452.331	452.370	452.411	452.455	452.496	452.538	452.593	452.657	452.718	452.775	452.833	452.889	452.936	452.976	452.994	453.025
STR.	452.083	452.118	452.165	452.227	452.287	452.337	452.380	452.423	452.469	452.512	452.557	452.615	452.681	452.744	452.803	452.864	452.923	452.971	453.010	453.051	453.095	453.136	453.178	453.233	453.297	453.358	453.415	453.473	453.529	453.576	453.616	453.634	453.665
GIRD C2	452.723	452.762	452.812	452.874	452.930	452.981	453.028	453.070	453.112	453.156	453.205	453.262	453.324	453.388	453.451	453.511	453.566	453.615	453.658	453.699	453.738	453.780	453.826	453.881	453.940	454.002	454.063	454.120	454.172	454.219	454.260	454.277	454.305

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION - SLAB THICKNESS (7")

GIRD. C1	449.580	449.619	449.668	449.731	449.787	449.838	449.884	449.997	449.969	450.013	450.062	450.119	450.181	450.245	450.308	450.368	450.422	450.471	450.515	450.555	450.595	450.636	450.683	450.737	450.797	450.859	450.919	450.977	451.029	451.076	451.117	451.133	451.161
STR.	450.220	450.255	450.302	450.364	450.424	450.474	450.516	450.559	450.606	450.649	450.694	450.751	450.818	450.881	450.940	451.000	451.059	451.107	451.147	451.188	451.232	451.272	451.315	451.370	451.434	451.495	451.552	451.609	451.666	451.713	451.752	451.771	451.801
STR.	450.860	450.895	450.942	451.004	451.064	451.114	451.156	451.199	451.246	451.289	451.334	451.391	451.458	451.521	451.580	451.640	451.699	451.747	451.787	451.828	451.872	451.912	451.955	452.010	452.074	452.135	452.192	452.249	452.306	452.353	452.392	452.411	452.441
STR.	451.500	451.535	451.582	451.644	451.704	451.754	451.796	451.839	451.886	451.929	451.974	452.031	452.098	452.161	452.220	452.280	452.339	452.387	452.427	452.468	452.512	452.552	452.595	452.650	452.714	452.775	452.832	452.889	452.946	452.993	453.032	453.051	453.081
GIRD. C2	452.140	452.179	452.228	452.291	452.347	452.398	452.444	452.487	452.528	452.573	452.622	452.679	452.740	452.805	452.868	452.928	452.982	453.031	453.075	453.115	453.155	453.196	453.243	453.297	453.357	453.419	453.479	453.537	453.589	453.636	453.677	453.693	453.721

See Note A - Sh No. 65.

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

TABLES OF ELEVATIONS
SPANS C12 THRU C14
POPLAR STREET BRIDGE APPROACHES
ROADWAY "C"

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

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

SHEET 75 of 241

BY RMR
CK
BY EMR
CK

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F A I -70	82-3HVB	ST. CLAIR	240	111
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

D.L. DEFLECTION (FT.)

	SPAN C 15																													
FLOOR BEAMS	L 12	L12.5	61	61.5	62	62.5	63	63.5	64	64.5	65	65.5	66	66.5	67	67.5	68	68.5	69	69.5	70	70.5	71	71.5	72	72.5	73	73.5	74	74.5	75	75.5	L 13
	.004	.004	.021	.034	.041	.046	.034	.023	.011	.002	.000	.005	.017	.032	.046	.055	.059	.055	.046	.032	.017	.005	.000	.003	.011	.023	.034	.042	.047	.046	.041	.032	.004

THEORETICAL ELEVATION TOP OF CONCRETE

	SPAN C 15																													
GIRD. C1	451.759	451.794	451.829	451.885	451.941	451.997	452.053	452.108	452.164	452.220	452.276	452.332	452.387	452.443	452.499	452.555	452.611	452.666	452.722	452.778	452.834	452.890	452.945	453.001	453.057	453.113	453.169	453.224	453.280	453.336	453.392	453.429	453.465
STR.	452.399	452.430	452.462	452.518	452.578	452.632	452.683	452.740	452.80	452.855	452.907	452.963	453.024	453.079	453.130	453.186	453.247	453.302	453.353	453.409	453.470	453.526	453.578	453.635	453.693	453.748	453.799	453.856	453.916	453.973	454.027	454.065	454.101
STR.	453.039	453.070	453.102	453.158	453.218	453.272	453.323	453.380	453.440	453.495	453.547	453.603	453.664	453.719	453.770	453.826	453.887	453.942	453.993	454.049	454.110	454.165	454.216	454.273	454.333	454.388	454.439	454.496	454.556	454.613	454.667	454.705	454.741
STR.	454.079	453.710	453.742	453.798	453.858	453.912	453.963	454.020	454.080	454.135	454.187	454.243	454.304	454.359	454.410	454.466	454.527	454.582	454.633	454.689	454.750	454.805	454.856	454.913	454.973	455.028	455.079	455.136	455.196	455.253	455.307	455.345	455.381
GIRD. C2	454.319	454.354	454.389	454.445	454.501	454.557	454.611	454.668	454.724	454.780	454.836	454.892	454.947	455.003	455.059	455.115	455.171	455.226	455.282	455.338	455.394	455.450	455.505	455.561	455.617	455.673	455.729	455.784	455.840	455.896	455.950	455.989	456.024

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION

	SPAN C 15																													
GIRD. C1	451.759	451.799	451.851	451.920	451.982	452.038	452.087	452.132	452.176	452.223	452.276	452.337	452.405	452.476	452.545	452.611	452.670	452.722	452.768	452.811	452.851	452.895	452.945	453.004	453.068	453.136	453.201	453.265	453.321	453.371	453.414	453.434	453.461
STR.	452.399	452.434	452.484	452.552	452.619	452.673	452.718	452.764	452.812	452.858	452.907	452.969	453.041	453.111	453.176	453.242	453.306	453.358	453.399	453.442	453.488	453.531	453.576	453.636	453.705	453.776	453.834	453.897	453.958	454.018	454.063	454.071	454.105
STR.	453.039	453.074	453.124	453.192	453.259	453.313	453.358	453.404	453.452	453.498	453.547	453.609	453.681	453.751	453.816	453.882	453.946	453.998	454.039	454.092	454.128	454.171	454.216	454.275	454.345	454.412	454.474	454.536	454.598	454.648	454.689	454.711	454.745
STR.	453.079	453.714	453.764	453.832	453.899	453.953	453.998	454.044	454.092	454.138	454.187	454.249	454.321	454.391	454.456	454.522	454.586	454.638	454.679	454.722	454.768	454.811	454.856	454.915	454.985	455.052	455.114	455.176	455.236	455.288	455.329	455.351	455.385
GIRD C2	454.319	454.359	454.411	454.480	454.542	454.598	454.647	454.692	454.736	454.780	454.836	454.897	454.965	455.036	455.105	455.171	455.230	455.282	455.328	455.371	455.411	455.455	455.505	455.564	455.628	455.696	455.763	455.825	455.881	455.931	455.974	455.994	456.031

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION - SLAB THICKNESS .71

	SPAN C 15																													
GIRD. C1	451.174	451.216	451.268	451.336	451.399	451.454	451.504	451.549	451.592	451.639	451.692	451.754	451.822	451.892	451.962	452.027	452.086	452.139	452.185	452.227	452.268	452.310	452.362	452.426	452.485	452.550	452.606	452.660	452.708	452.754	452.801	452.821	452.880
STR.	451.816	451.851	451.901	451.969	452.036	452.090	452.135	452.180	452.229	452.275	452.323	452.386	452.458	452.528	452.593	452.659	452.723	452.774	452.816	452.859	452.904	452.946	452.991	453.052	453.121	453.188	453.241	453.303	453.354	453.398	453.444	453.463	453.501
STR.	452.456	452.491	452.541	452.609	452.675	452.730	452.775	452.820	452.869	452.915	452.963	453.025	453.098	453.168	453.233	453.299	453.363	453.414	453.456	453.499	453.544	453.587	453.630	453.692	453.761	453.828	453.881	453.943	453.994	454.038	454.085	454.105	454.142
STR.	453.096	453.131	453.181	453.249	453.315	453.370	453.415	453.460	453.509	453.555	453.603	453.665	453.738	453.808	453.873	453.939	454.003	454.054	454.096	454.139	454.184	454.227	454.270	454.332	454.401	454.468	454.521	454.583	454.634	454.678	454.725	454.747	454.780
GIRD C2	453.736	453.776	453.826	453.896	453.959	454.014	454.064	454.109	454.152	454.193	454.252	454.314	454.382	454.452	454.522	454.587	454.646	454.699	454.745	454.787	454.828	454.870	454.912	454.967	455.035	455.103	455.161	455.223	455.279	455.329	455.374	455.394	455.431

See Note A - Sh No 65.

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

TABLES OF ELEVATIONS
SPANS C15 THRU C17

POPLAR STREET BRIDGE APPROACHES
ROADWAY "C"

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

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

SHEET 76 of 241

BY RMR
BY VB
BY RMR
D BY KA

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F A I -70	82-3HVB	ST. CLAIR	289	112
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

D.L. DEFLECTION (FT.)

	SPAN C 18											SPAN C 19									
FLOOR BEAMS	L 14	L 14.5	76	76.5	77	77.5	78	78.5	79	79.5	80	80.5	81	81.5	82	82.5	83	83.5	84	84.5	85	85.5
	.000	.006	.024	.035	.040	.039	.033	.022	.010	.002	.000	.000	.008	.021	.033	.041	.044	.041	.032	.020	.009	.001

THEORETICAL ELEVATION TOP OF CONCRETE

GIRD. C1	453.473	453.511	453.548	453.610	453.654	453.704	453.751	453.797	453.841	453.883	453.922	453.960	453.996	454.029	454.061	454.090	454.118	454.143	454.166	454.187	454.207	454.224
STR.	454.113	454.146	454.180	454.234	454.290	454.339	454.382	454.419	454.477	454.518	454.553	454.591	454.632	454.664	454.692	454.721	454.754	454.778	454.797	454.819	454.843	454.859
STR.	454.753	454.786	454.820	454.874	454.930	454.979	455.022	455.060	455.117	455.158	455.193	455.231	455.272	455.304	455.332	455.361	455.394	455.418	455.437	455.459	455.483	455.498
STR.	455.393	455.426	455.460	455.514	455.570	455.619	455.662	455.708	455.757	455.798	455.833	455.871	455.912	455.944	455.972	456.001	456.034	456.058	456.077	456.099	456.123	456.139
GIRD. C2	456.030	456.071	456.108	456.168	456.214	456.264	456.311	456.357	456.401	456.443	456.482	456.520	456.556	456.589	456.621	456.650	456.678	456.703	456.726	456.747	456.767	456.784

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION

GIRD. C1	453.473	453.517	453.571	453.637	453.695	453.743	453.785	453.819	453.852	453.885	453.922	453.961	454.005	454.051	454.094	454.132	454.162	454.184	454.199	454.218	454.236	454.255
STR.	454.113	454.152	454.200	454.269	454.331	454.379	454.415	454.451	454.488	454.528	454.553	454.593	454.641	454.686	454.725	454.763	454.799	454.820	454.836	454.848	454.862	454.861
STR.	454.753	454.792	454.843	454.909	454.971	455.019	455.058	455.091	455.128	455.160	455.193	455.232	455.281	455.326	455.365	455.403	455.439	455.460	455.470	455.480	455.490	455.501
STR.	455.393	455.432	455.483	455.549	455.611	455.659	455.695	455.731	455.768	455.800	455.833	455.872	455.921	455.966	456.005	456.043	456.079	456.100	456.110	456.120	456.130	456.141
GIRD. C2	456.030	456.077	456.131	456.197	456.255	456.303	456.345	456.379	456.410	456.445	456.482	456.521	456.565	456.611	456.654	456.692	456.722	456.744	456.759	456.768	456.776	456.785

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION - SLAB THICKNESS (7")

GIRD. C1	452.190	452.234	452.288	453.094	453.111	453.160	453.201	453.236	453.268	453.302	453.339	453.378	453.421	453.467	453.511	453.549	453.579	453.601	453.616	453.635	453.633	453.648
STR.	453.100	453.563	453.620	453.686	453.748	453.795	453.832	453.867	453.905	453.937	453.970	454.009	454.058	454.102	454.142	454.180	454.215	454.236	454.247	454.256	454.269	454.277
STR.	454.170	454.209	454.260	454.326	454.388	454.435	454.472	454.507	454.545	454.577	454.610	454.649	454.698	454.742	454.782	454.820	454.855	454.876	454.887	454.896	454.909	454.917
STR.	454.810	454.849	454.900	454.966	455.028	455.075	455.112	455.147	455.185	455.217	455.250	455.289	455.338	455.382	455.422	455.460	455.495	455.516	455.527	455.536	455.549	455.557
GIRD. C2	455.450	455.494	455.548	455.614	455.671	455.720	455.761	455.796	455.828	455.862	455.893	455.938	455.981	456.027	456.071	456.109	456.139	456.161	456.176	456.185	456.193	456.202

D.L. DEFLECTION (FT.)

	SPAN C 20											SPAN C 21									
FLOOR BEAMS	86	86.5	87	87.5	88	88.5	89	89.5	90	90.5	91	91.5	92	92.5	93	93.5	94	94.5	95	95.5	96	96.5	L 15
	.000	.001	.009	.021	.032	.041	.044	.041	.033	.021	.008	.000	.000	.002	.010	.022	.033	.039	.040	.035	.022	.005	.000

THEORETICAL ELEVATION TOP OF CONCRETE

GIRD. C1	454.239	454.282	454.263	454.272	454.279	454.284	454.287	454.287	454.286	454.283	454.278	454.270	454.261	454.249	454.236	454.220	454.203	454.183	454.161	454.137	454.112	454.094	454.078
STR.	454.870	454.883	454.899	454.957	454.910	454.915	454.913	454.913	454.917	454.914	454.914	454.905	454.892	454.881	454.872	454.855	454.833	454.814	454.797	454.774	454.747	454.731	454.716
STR.	455.610	455.523	455.539	455.547	455.550	455.555	455.563	455.563	455.557	455.554	455.554	455.545	455.532	455.520	455.512	455.495	455.473	455.454	455.437	455.414	455.387	455.371	135.356
STR.	456.150	456.163	456.179	456.187	456.190	456.195	456.203	456.203	456.197	456.194	456.194	456.185	456.172	456.166	456.158	456.135	456.113	456.094	456.077	456.054	456.027	456.011	455.998
GIRD. C2	456.799	456.810	456.823	456.832	456.839	456.844	456.847	456.847	456.846	456.843	456.838	456.830	456.821	456.809	456.796	456.780	456.763	456.743	456.721	456.697	456.672	456.654	456.634

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION

GIRD. C1	454.239	454.284	454.272	454.293	454.312	454.325	454.331	454.329	454.320	454.304	454.286	454.271	454.261	454.252	454.246	454.243	454.236	454.223	454.202	454.173	454.134	454.099	454.078
STR.	454.870	454.885	454.908	454.928	454.943	454.957	454.958	454.954	454.950	454.935	454.923	454.906	454.892	454.883	454.883	454.878	454.867	454.854	454.838	454.819	454.769	454.736	454.716
STR.	455.610	455.525	455.548	455.568	455.583	455.596	455.608	455.604	455.600	455.575	455.563	455.546	455.532	455.523	455.523	455.518	455.507	455.494	455.478	455.449	455.419	455.376	455.356
STR.	456.150	456.165	456.188	456.208	456.223	456.236	456.248	456.244	456.230	456.215	456.203	456.188	456.172	456.163	456.163	456.158	456.147	456.134	456.118	456.089	456.049	456.016	455.998
GIRD. C2	456.799	456.814	456.832	456.853	456.872	456.885	456.891	456.889	456.880	456.864	456.846	456.831	456.821	456.810	456.806	456.803	456.796	456.783	456.765	456.733	456.694	456.659	456.636

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION - SLAB THICKNESS (7")

GIRD. C1	453.655	453.670	453.689	453.710	453.728	453.742	453.748	453.746	453.736	453.721	453.703	453.688	453.677	453.668	453.663	453.659	453.653	453.640	453.619	453.589	453.551	453.516	453.493
STR.	454.286	454.310	454.325	454.345	454.359	454.373	454.384	454.381	454.367	454.352	454.339	454.322	454.308	454.300	454.299	454.294	454.283	454.271	454.255	454.226	454.186	454.153	454.133
STR.	454.026	454.941	454.965	454.985	454.999	455.013	455.024	455.021	455.007	454.992	454.979	454.963	454.948	454.940	454.939	454.934	454.923	454.911	454.895	454.866	454.826	454.793	454.773
STR.	455.566	455.581	455.600	455.625	455.639	455.653	455.664	455.661	455.647	455.632	455.619	455.603	455.588	455.580	455.579	455.574	455.563	455.551	455.535	455.506	455.466	455.433	455.413
GIRD. C2	456.215	456.230	456.249	456.270	456.288	456.302	456.308	456.306	456.296	456.281	456.263	456.248	456.237	456.228	456.223	456.219	456.213	456.200	456.179	456.149	456.111	456.076	456.053

ED BY RMR
BY KB
D BY RMR
IED BY KA

See Note A-Sh No. 65

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

TABLES OF ELEVATIONS

SPANS C18 THRU C21

POPLAR STREET BRIDGE APPROACHES
ROADWAY "C"

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

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

SHEET 77 OF 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	113
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

D.L. DEFLECTION (FT.)

	SPAN C 22													SPAN C 23							
FLOOR BEAMS	L/6	L/6.5	97	97.5	98	98.5	99	99.5	100	100.5	101	101.5	102	102.5	103	103.5	104	104.5	105	105.5	106	106.5
	.000	.005	.022	.035	.040	.033	.033	.022	.010	.002	.000	.000	.002	.007	.015	.041	.044	.041	.032	.021	.009	.001

THEORETICAL ELEVATION TOP OF CONCRETE

GIRD. C1	454.068	454.043	454.029	453.995	453.959	453.921	453.880	453.840	453.796	453.754	453.713	453.673	453.641	453.648	453.490	453.430	453.372	453.310	453.245	453.179	453.111	453.041
STR.	454.708	454.684	454.661	454.627	454.596	454.567	454.518	454.471	454.433	454.388	454.344	454.297	454.282	454.321	454.063	454.006	453.945	453.876	453.810	453.747	453.676	
STR.	455.348	455.324	455.301	455.267	455.236	455.197	455.153	455.111	455.073	455.028	454.973	454.924	454.877	454.905	454.781	454.703	454.648	454.585	454.516	454.450	454.387	454.314
STR.	455.988	455.964	455.941	455.907	455.876	455.837	455.793	455.751	455.713	455.668	455.613	455.564	455.517	455.483	455.401	455.343	455.288	455.225	455.156	455.090	455.027	454.956
GIRD. C2	456.628	456.609	456.589	456.556	456.519	456.482	456.442	456.400	456.356	456.310	456.263	456.213	456.161	456.106	456.050	455.990	455.932	455.870	455.805	455.739	455.671	455.601

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION

GIRD. C1	454.068	454.054	454.051	454.030	454.000	453.962	453.918	453.873	453.807	453.783	453.713	453.653	453.609	453.568	453.524	453.474	453.417	453.351	453.279	453.200	453.120	453.041
STR.	454.708	454.693	454.674	454.653	454.627	454.597	454.547	454.494	454.443	454.388	454.333	454.285	454.248	454.303	454.155	454.105	454.053	453.986	453.909	453.831	453.756	453.676
STR.	455.348	455.329	455.304	455.269	455.237	455.197	455.154	455.083	455.028	454.973	454.905	454.886	454.843	454.795	454.745	454.693	454.628	454.549	454.471	454.396	454.318	
STR.	455.988	455.969	455.944	455.943	455.877	455.836	455.774	455.728	455.688	455.633	455.565	455.506	455.483	455.435	455.385	455.333	455.266	455.189	455.111	455.036	454.958	
GIRD. C2	456.628	456.614	456.611	456.590	456.560	456.522	456.478	456.433	456.367	456.313	456.263	456.213	456.169	456.128	456.084	456.034	455.977	455.911	455.838	455.762	455.680	455.602

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION + SLAB THICKNESS (7")

GIRD. C1	461.485	461.471	461.468	461.447	461.417	461.378	461.335	461.289	461.224	461.183	461.113	461.071	461.026	461.984	461.940	461.891	461.833	461.768	461.695	461.617	461.537	461.459
STR.	461.125	461.110	461.100	461.079	461.054	461.013	460.963	460.910	460.866	460.805	460.736	460.703	460.660	460.620	460.571	460.520	460.470	460.413	460.346	460.268	460.193	460.094
STR.	461.765	461.749	461.741	461.715	461.684	461.653	461.613	461.550	461.490	461.445	461.390	461.341	461.302	461.260	461.211	461.162	461.110	461.043	460.968	460.888	460.813	460.734
STR.	462.405	462.388	462.381	462.359	462.334	462.293	462.243	462.190	462.140	462.085	462.030	461.981	461.942	461.900	461.851	461.802	461.756	461.683	461.606	461.529	461.453	461.374
GIRD. C2	462.045	462.031	462.028	462.007	461.977	461.938	461.895	461.849	461.784	461.729	461.678	461.630	461.586	461.544	461.500	461.451	461.398	461.328	461.255	461.177	461.097	461.019

D.L. DEFLECTION (FT.)

	SPAN C 24													SPAN C 25								
FLOOR BEAMS	107	107.5	108	108.5	109	109.5	110	110.5	111	111.5	112	112.5	113	113.5	114	114.5	115	115.5	116	116.5	117	117.5	118
	.000	.001	.009	.021	.032	.041	.044	.041	.033	.021	.009	.000	.000	.002	.010	.022	.033	.039	.040	.035	.022	.006	.000

THEORETICAL ELEVATION TOP OF CONCRETE

GIRD. C1	452.969	452.894	452.818	452.740	452.659	452.574	452.486	452.405	452.316	452.225	452.130	452.037	451.940	451.841	451.740	451.637	451.530	451.424	451.315	451.204	451.090	451.017	451.041
STR.	453.593	453.529	453.454	453.375	453.290	453.203	453.123	453.041	452.947	452.858	452.768	452.675	452.571	452.475	452.379	452.276	452.163	452.056	451.951	451.840	451.725	451.654	451.583
STR.	454.239	454.166	454.094	454.015	453.930	453.847	453.768	453.686	453.587	453.496	453.404	453.312	453.211	453.112	453.016	452.918	452.802	452.696	452.591	452.480	452.365	452.294	452.223
STR.	454.879	454.806	454.734	454.655	454.571	454.487	454.408	454.325	454.227	454.136	454.045	453.950	453.851	453.752	453.656	453.552	453.442	453.326	453.231	453.121	453.006	452.934	452.863
GIRD. C2	455.519	455.454	455.376	455.300	455.219	455.136	455.052	454.965	454.876	454.788	454.698	454.597	454.500	454.401	454.300	454.197	454.090	453.984	453.875	453.764	453.650	453.577	453.503

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION

GIRD. C1	452.969	452.896	452.823	452.761	452.690	452.616	452.536	452.467	452.369	452.288	452.214	452.134	452.098	451.960	451.843	451.731	451.659	451.565	451.464	451.356	451.239	451.113	451.100	450.963
STR.	453.599	453.537	453.464	453.396	453.323	453.243	453.173	453.105	453.010	452.929	452.879	452.777	452.673	452.577	452.475	452.387	452.284	452.196	452.096	451.995	451.876	451.748	451.659	451.583
STR.	454.239	454.167	454.104	454.039	453.963	453.883	453.811	453.732	453.630	453.537	453.447	453.353	453.255	453.158	453.057	452.934	452.836	452.736	452.635	452.516	452.398	452.299	452.203
STR.	454.879	454.807	454.744	454.676	454.603	454.529	454.453	454.382	454.280	454.187	454.087	453.958	453.851	453.755	453.657	453.574	453.476	453.376	453.275	453.156	453.038	452.939	452.863
GIRD. C2	455.529	455.456	455.388	455.301	455.252	455.174	455.096	455.007	454.918	454.826	454.736	454.598	454.500	454.403	454.311	454.219	454.125	454.024	453.916	453.799	453.673	453.580	453.503

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION + SLAB THICKNESS (7")

GIRD. C1	462.185	462.113	462.044	461.977	461.919	461.851	461.783	461.723	461.705	461.663	461.556	461.455	461.357	461.260	461.167	461.076	460.980	460.881	460.773	460.655	460.530	460.439	460.380
STR.	459.016	458.944	458.881	458.813	458.739	458.666	458.588	458.509	458.397	458.294	458.194	458.090	457.988	457.891	457.804	457.711	457.610	457.510	457.409	457.290	457.165	457.076	457.000
STR.	459.656	459.584	459.521	459.453	459.378	459.298	459.218	459.137	459.034	458.937	458.834	458.730	458.628	458.531	458.444	458.351	458.248	458.149	458.049	457.930	457.805	457.716	457.640
STR.	460.296	460.224	460.161	460.093	460.018	459.938	459.858	459.779	459.677	459.574	459.474	459.370	459.268	459.171	459.084	458.991	458.892	458.790	458.689	458.571	458.445	458.356	458.280
GIRD. C2	459.945	459.873	459.804	459.737	459.669	459.598	459.518	459.433	459.343	459.250	459.159	459.058	458.957	458.861	458.771	458.676	458.576	458.476	458.374	458.257	458.132	458.042	457.965

See Note 4 on Sh. No. 65.

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

TABLES OF ELEVATIONS
SPANS C22 THRU C25
POPLAR STREET BRIDGE APPROACHES
ROADWAY "C"

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

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

SHEET 78 OF 241

D.B.Y. R.M.R.
B.Y. V.B.
D.B.Y. R.M.R.
D.B.Y. V.B.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	280	114
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

D.L. DEFLECTION (FT.)

	SPAN C 26													SPAN C 27																					SPAN C 28													
FLOOR BEAMS	L18	L18.5	118	118.5	119	119.5	120	120.5	121	121.5	122	122.5	123	123.5	124	124.5	125	125.5	126	126.5	127	127.5	128	128.5	129	129.5	130	130.5	131	131.5	132	132.5	133	133.5	134	134.5	135	135.5
	.000	.008	.021	.036	.050	.056	.055	.048	.037	.023	.011	.002	.000	.009	.024	.043	.061	.078	.089	.094	.091	.082	.066	.047	.027	.011	.000	.004	.002	.004	.013	.020	.024	.024	.019	.011	.003	.000

THEORETICAL ELEVATION TOP OF CONCRETE

GIRD. C1	451.313	451.842	451.770	451.681	451.590	451.476	451.340	451.243	451.174	451.003	449.880	449.756	449.630	449.509	449.368	449.237	449.106	448.975	448.844	448.713	448.582	448.451	448.320	448.189	448.058	447.930	447.803	447.674	447.545	447.416	447.287	447.159	447.030	446.901	446.772	446.643	446.515	446.386
STR.	451.553	451.479	451.405	451.315	451.226	451.117	450.990	450.875	450.761	450.639	450.512	450.388	450.267	450.135	450.001	449.870	449.743	449.611	449.476	449.345	449.219	449.087	448.952	448.821	448.694	448.566	448.435	448.307	448.180	448.052	447.920	447.791	447.667	447.537	447.404	447.276	447.152	447.022
STR.	452.193	452.119	452.045	451.955	451.866	451.752	451.632	451.515	451.401	451.279	451.152	451.028	450.907	450.775	450.641	450.510	450.383	450.251	450.116	449.985	449.859	449.727	449.592	449.461	449.334	449.204	449.075	448.947	448.822	448.692	448.560	448.431	448.307	448.177	448.044	447.916	447.790	447.662
STR.	452.833	452.759	452.685	452.595	452.508	452.392	452.272	452.155	452.041	451.919	451.792	451.668	451.547	451.415	451.281	451.150	451.023	450.891	450.756	450.625	450.492	450.367	450.232	450.101	449.974	449.846	449.715	449.587	449.462	449.332	449.200	449.071	448.947	448.817	448.684	448.556	448.432	448.302
GIRD. C2	453.473	453.402	453.330	453.241	453.150	453.036	452.900	452.763	452.624	452.563	452.440	452.316	452.190	452.060	451.928	451.797	451.666	451.535	451.404	451.273	451.142	451.011	450.880	450.749	450.618	450.490	450.363	450.234	450.105	449.976	449.847	449.719	449.590	449.461	449.332	449.203	449.075	448.946

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION

GIRD. C1	451.313	451.850	451.778	451.720	451.641	451.532	451.416	451.298	451.161	450.027	449.891	449.758	449.630	449.509	449.393	449.281	449.168	449.053	448.934	448.808	448.674	448.533	448.386	448.236	448.086	447.941	447.803	447.670	447.543	447.421	447.301	447.180	447.055	446.905	446.782	446.655	446.518	446.385
STR.	451.553	451.487	451.427	451.354	451.278	451.168	451.048	450.924	450.798	450.663	450.523	450.391	450.267	450.145	450.025	449.913	449.805	449.689	449.566	449.440	449.311	449.169	449.019	448.869	448.722	448.578	448.435	448.302	448.180	448.057	447.933	447.812	447.692	447.561	447.424	447.288	447.155	447.021
STR.	452.193	452.127	452.047	451.994	451.918	451.808	451.688	451.564	451.438	451.403	451.163	451.031	450.907	450.785	450.665	450.553	450.445	450.329	450.206	450.080	449.951	449.809	449.659	449.509	449.362	449.218	449.075	448.942	448.820	448.697	448.573	448.452	448.332	448.201	448.064	447.928	447.795	447.661
STR.	452.833	452.767	452.707	452.634	452.558	452.448	452.328	452.204	452.078	451.943	451.813	451.671	451.547	451.415	451.305	451.193	451.085	450.969	450.846	450.720	450.591	450.449	450.299	450.149	450.002	449.858	449.715	449.582	449.460	449.337	449.213	449.090	448.972	448.841	448.704	448.568	448.435	448.301
GIRD. C2	453.473	453.410	453.350	453.260	453.161	453.092	452.976	452.852	452.721	452.567	452.451	452.318	452.196	452.069	451.953	451.841	451.726	451.613	451.494	451.368	451.234	451.093	450.946	450.796	450.646	450.501	450.363	450.230	450.103	449.981	449.861	449.740	449.615	449.485	449.352	449.215	449.076	448.945

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION - SLAB THICKNESS (7")

GIRD. C1	451.313	450.267	450.209	450.136	450.057	449.949	449.833	449.716	449.578	449.443	449.308	449.175	449.046	448.926	448.810	448.697	448.585	448.470	448.351	448.225	448.091	447.950	447.803	447.653	447.502	447.358	447.219	447.086	446.960	446.838	446.718	446.596	446.471	446.342	446.208	446.072	445.935	445.802
STR.	451.553	451.487	451.427	451.354	451.278	451.168	451.048	450.924	450.798	450.663	450.523	450.391	450.267	450.145	450.025	449.913	449.805	449.689	449.566	449.440	449.311	449.169	449.019	448.869	448.722	448.578	448.435	448.302	448.180	448.057	447.933	447.812	447.692	447.561	447.424	447.288	447.155	447.021
STR.	452.193	452.127	452.047	451.994	451.918	451.808	451.688	451.564	451.438	451.403	451.163	451.031	450.907	450.785	450.665	450.553	450.445	450.329	450.206	450.080	449.951	449.809	449.659	449.509	449.362	449.218	449.075	448.942	448.820	448.697	448.573	448.452	448.332	448.201	448.064	447.928	447.795	447.661
STR.	452.833	452.767	452.707	452.634	452.558	452.448	452.328	452.204	452.078	451.943	451.813	451.671	451.547	451.415	451.305	451.193	451.085	450.969	450.846	450.720	450.591	450.449	450.299	450.149	450.002	449.858	449.715	449.582	449.460	449.337	449.213	449.090	448.972	448.841	448.704	448.568	448.435	448.301
GIRD. C2	453.473	453.410	453.350	453.260	453.161	453.092	452.976	452.852	452.721	452.567	452.451	452.318	452.196	452.069	451.953	451.841	451.726	451.613	451.494	451.368	451.234	451.093	450.946	450.796	450.646	450.501	450.363	450.230	450.103	449.981	449.861	449.740	449.615	449.485	449.352	449.215	449.076	448.945

D.L. DEFLECTION (FT.)

	SPAN C 29													SPAN C 30												
FLOOR BEAMS	136	136.5	137	137.5	138	138.5	139	139.5	140	140.5	141	141.5	142	142.5	143	143.5	144	144.5	145	145.5	146	146.5	L19
	.000	.005	.016	.030	.043	.051	.054	.051	.042	.029	.016	.005	.000	.004	.012	.023	.033	.039	.039	.030	.023	.009	.000

THEORETICAL ELEVATION TOP OF CONCRETE

GIRD. C1	446.257	446.128	446.000	445.871	445.742	445.613	445.484	445.356	445.227	445.098	444.969	444.840	444.712	444.583	444.454	444.325	444.196	444.067	443.939	443.810	443.681	443.551	443.502
STR.	446.889	446.761	446.637	446.507	446.374	446.246	446.121	445.992	445.859	445.731	445.606	445.476	445.344	445.215	445.091	444.961	444.828	444.700	444.576	444.447	444.316	444.188	444.142
STR.	447.529	447.401	447.277	447.147	447.014	446.886	446.761	446.632	446.499	446.371	446.246	446.116	445.984	445.855	445.731	445.601	445.468	445.340	445.216	445.087	444.956	444.828	444.782
STR.	448.169	448.041	447.917	447.787	447.654	447.526	447.401	447.272	447.139	447.011	446.886	446.756	446.624	446.495	446.371	446.241	446.108	445.980	445.856	445.727	445.596	445.468	445.422
GIRD. C2	448.817	448.688	448.560	448.431	448.302	448.173	448.044	447.916	447.787	447.658	447.529	447.400	447.272	447.143	447.014	446.885	446.756	446.627	446.499	446.370	446.241	446.151	446.062

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION

GIRD. C1	446.257	446.134	446.017	445.902	445.785	445.665	445.539	445.407	445.269	445.128	444.985	444.846	444.712	444.587	444.467	444.348	444.229	444.107	443.978	443.845	443.704	443.599	443.502
STR.	446.889	446.767	446.654	446.538	446.418	446.298	446.176	446.043	445.901	445.760	445.623	445.482	445.344	445.220	445.104	444.984	444.862	444.739	444.616	444.482	444.340	444.235	444.142
STR.	447.529	447.407	447.294	447.178	447.058	446.938	446.816	446.683	446.541	446.400	446.263	446.122	445.984	445.859	445.744	445.624	445.502	445.379	445.256	445.122	444.980	444.875	444.782
STR.	448.169	448.047	447.934	447.818	447.698	447.578	447.456	447.323	447.181	447.040	446.903	446.762	446.624	446.499	446.384	446.264	446.142	446.019	445.896	445.762	445.620	445.515	445.422
GIRD. C2	448.817	448.694	448.577	448.462	448.345	448.225	448.099	447.967	447.829	447.688	447.545	447.406	447.272	447.147	447.026	446.908	446.789	446.667	446.538	446.405	446.264	446.159	446.062

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION - SLAB THICKNESS (7")

GIRD. C1	445.674	445.551	445.433	445.318	445.202	445.082	444.956	444.824	444.686	444.544	444.402	444.263	444.128	444.004	443.883	443.765	443.646	443.523	443.395	443.261	443.121	443.015	442.919
STR.	446.306	446.183	446.070	445.954	445.834	445.715	445.593	445.460	445.318	445.177	445.039	444.899	444.760	444.636	444.520	444.401	444.278	444.156	444.032	443.898	443.756	443.652	443.559
STR.	446.946	446.823	446.710	446.594	446.474	446.354	446.233	446.100	445.958	445.817	445.679	445.539	445.400	445.276	445.160	445.041	444.918	444.796	444.672	444.536	444.396	444.292	444.199
STR.	447.586	447.463	447.350	447.234	447.114	446.994	446.873	446.740	446.598	446.457	446.319	446.179	446.040	445.916	445.800	445.681	445.558	445.436	445.312	445.176	445.036	444.932	444.839
GIRD. C2	448.234	448.111	447.992	447.878	447.762	447.642	447.516	447.384	447.246	447.104	446.962	446.823	446.688	446.564	446.443	446.325	446.206	446.083	445.956	445.821	445.681	445.575	445.479

See Note 4 - Sh No 65

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

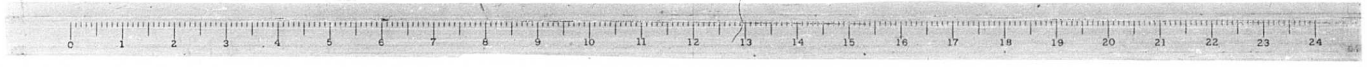
TABLES OF ELEVATIONS
SPANS C26 THRU C30
POPLAR STREET BRIDGE APPROACHES
ROADWAY "C"

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

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

SHEET 79 of 241

CHKED BY RATR
CHKD BY VB
CHKED BY RATR
APPROVED BY RA



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	285	115
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT.		

D.L. DEFLECTION (FT.)

	SPAN A 25																	SPAN A 26											
FLOOR BEAMS	L1	L 1.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12	12.5	13	13.5
	.004	.015	.029	.048	.069	.090	.048	.067	.087	.084	.009	.001	.XXX	.003	.011	.024	.040	.056	.069	.078	.082	.077	.067	.054	.038	.022	.010	.002

THEORETICAL ELEVATION TOP OF CONCRETE

G.P.D. A1	469,995	470,067	470,094	470,077	470,043	470,009	470,057	470,093	470,078	470,031	470,332	470,521	470,699	470,856	470,992	473,138	473,263	473,378	473,483	473,577	473,661	473,734	473,797	473,850	473,892	473,924	473,945	473,956
STR.	469,295	469,321	469,336	469,332	469,305	469,264	469,313	469,348	469,324	469,286	469,588	469,776	469,955	470,211	472,358	470,493	470,620	470,734	470,839	470,933	471,017	473,090	473,154	473,205	473,248	473,279	473,301	473,311
STR.	468,652	468,681	469,110	469,200	469,265	469,304	470,173	470,408	470,634	470,846	471,048	471,237	471,415	471,571	471,719	471,854	471,980	472,094	472,199	472,293	472,377	472,450	472,514	472,565	472,608	472,639	472,662	472,672
STR.	468,110	468,141	468,471	468,752	469,105	469,284	469,533	469,768	469,994	470,206	470,408	470,597	470,775	470,931	471,079	471,214	471,340	471,454	471,560	471,653	471,737	471,810	471,874	471,926	471,969	471,999	472,022	472,032
G.P.D. A2	467,078	467,067	467,034	468,117	468,383	468,649	468,897	469,133	469,356	469,571	469,770	469,961	470,139	470,296	470,442	470,578	470,703	470,818	470,923	471,017	471,101	471,174	471,237	471,290	471,332	471,364	471,385	471,396

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION

G.P.D. A1	469,999	470,180	470,434	470,720	471,113	471,293	471,926	471,781	471,953	470,166	470,341	470,521	470,699	470,859	473,014	473,162	473,304	473,435	473,552	473,655	473,743	473,812	473,865	473,904	473,930	473,946	473,955	473,958
STR.	469,298	469,536	469,790	470,090	470,374	470,637	470,880	471,106	471,315	471,510	471,697	471,878	472,055	472,215	472,370	472,518	472,660	472,790	472,909	473,011	473,099	473,167	473,222	473,260	473,286	473,301	473,311	473,314
STR.	468,652	468,696	469,150	469,490	469,775	469,991	470,240	470,468	470,676	470,870	471,057	471,238	471,415	471,575	471,730	471,878	472,020	472,150	472,269	472,371	472,460	472,537	472,602	472,657	472,682	472,672	472,674	472,674
STR.	468,110	468,155	468,510	468,811	469,195	469,387	469,608	469,824	470,036	470,238	470,428	470,608	470,775	470,935	471,090	471,238	471,380	471,511	471,629	471,731	471,820	471,888	471,942	471,980	472,007	472,022	472,032	472,034
G.P.D. A2	467,078	467,082	467,074	468,177	468,455	468,721	468,966	469,197	469,420	469,595	469,780	469,961	470,139	470,299	470,454	470,602	470,744	470,875	470,993	471,095	471,183	471,252	471,305	471,344	471,370	471,386	471,395	471,398

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION - SLAB THICKNESS (7")

G.P.D. A1	469,349	469,530	469,850	470,192	470,635	470,690	470,940	471,167	471,379	471,576	471,758	471,939	472,116	472,276	472,431	472,579	472,720	472,852	472,969	473,072	473,160	473,228	473,282	473,321	473,347	473,363	473,372	473,375
STR.	468,709	468,953	469,308	469,647	469,791	470,064	470,298	470,520	470,728	470,927	471,114	471,294	471,470	471,631	471,787	471,935	472,077	472,207	472,326	472,428	472,516	472,584	472,638	472,676	472,703	472,718	472,728	472,731
STR.	468,069	468,313	468,668	468,967	469,151	469,414	469,658	469,880	470,090	470,287	470,474	470,654	470,830	470,991	471,147	471,295	471,437	471,567	471,686	471,788	471,876	471,944	471,998	472,037	472,063	472,078	472,088	472,091
STR.	467,459	467,673	467,968	468,207	468,611	468,774	469,118	469,243	469,452	469,647	469,834	470,014	470,186	470,352	470,507	470,655	470,797	470,927	471,046	471,148	471,236	471,304	471,358	471,397	471,423	471,438	471,448	471,451
G.P.D. A2	466,799	467,039	467,290	467,595	467,873	468,139	468,385	468,607	468,816	469,012	469,196	469,379	469,556	469,716	469,871	470,019	470,161	470,292	470,409	470,512	470,600	470,668	470,722	470,761	470,787	470,803	470,812	470,815

D.L. DEFLECTION (FT.)

	SPAN A 27																		SPAN A 28										
FLOOR BEAMS	L2	L2.5	L3	L3.5	L4	L4.5	L5	L5.5	L6	L6.5	L7	L7.5	L8	L8.5	L9	L9.5	L10	L10.5	L11	L11.5	L12	L12.5	L13	L13.5	L14	L14.5	L15	L15.5	L2
	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

THEORETICAL ELEVATION TOP OF CONCRETE

G.P.D. A	470,956	471,048	470,956	470,895	471,051	470,861	470,799	470,668	470,562	470,490	470,384	470,272	470,147	473,612	472,866	472,710	472,544	472,356	472,156	471,945	471,722	471,487	471,240	470,982	470,712	470,430	470,136	469,901	469,662
STR.	470,613	470,710	470,580	470,556	470,733	470,557	470,496	470,322	470,196	470,102	469,964	469,845	469,742	469,627	469,503	472,367	472,223	472,069	471,900	471,711	471,512	471,300	471,078	470,842	470,596	470,337	470,068	469,785	469,493	469,259	469,022
STR.	470,173	470,260	470,140	470,127	470,317	470,157	470,096	470,022	469,966	469,926	469,862	469,803	469,748	469,687	469,624	469,561	469,497	469,426	469,351	469,271	469,187	469,100	469,009	468,914	468,815	468,712	468,605	468,494	468,382
STR.	470,030	470,100	470,002	470,012	471,870	470,037	470,016	469,962	469,916	469,880	469,827	469,780	469,732	469,683	469,631	469,578	469,523	469,466	469,407	469,345	469,281	469,214	469,144	469,072	468,997	468,919	468,838	468,753	468,665
G.P.D. A2	471,098	471,086	471,066	471,035	471,093	471,041	471,079	471,016	471,023	470,990	470,956	470,712	470,587	470,452	470,306	470,150	469,984	469,796	469,597	469,385	469,162	468,927	468,680	468,422	468,152	467,870	467,576	467,341	467,102

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION

G.P.D. A	470,956	470,949	470,994	471,017	471,051	470,956	470,817	470,744	470,665	470,568	470,455	470,328	470,187	470,036	469,878	469,714	469,544	469,367	469,166	468,969	468,763	468,544	468,309	468,055	467,781	467,488	467,176	466,916	466,662
STR.	470,613	470,664	470,690	470,676	470,748	470,617	470,484	470,339	470,212	470,124	469,984	469,864	469,762	469,684	469,644	469,590	469,525	469,454	469,379	469,299	469,214	469,119	469,019	468,915	468,805	468,690	468,570	468,445	468,316
STR.	470,173	470,264	470,252	470,232	470,373	470,224	470,156	470,082	470,026	469,986	469,922	469,864	469,808	469,752	469,695	469,635	469,574	469,511	469,444	469,375	469,303	469,229	469,151	469,070	468,986	468,897	468,805	468,708	468,608
STR.	470,033	470,104	470,110	471,993	471,961	471,920	471,884	471,850	471,742	471,664	471,535	471,414	471,284	471,112	470,955	470,789	470,620	470,432	470,242	470,044	469,839	469,619	469,385	469,130	468,857	468,563	468,253	467,994	467,742
G.P.D. A2	471,098	471,089	471,076	471,057	471,101	471,056	471,047	471,014	471,018	470,995	470,966	470,827	470,676	470,518	470,354	470,184	469,984	469,797	469,606	469,409	469,203	468,984	468,749	468,495	468,221	467,928	467,616	467,356	467,102

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION - SLAB THICKNESS (7")

G.P.D. A1	470,371	470,366	470,392	470,374	470,368	470,373	470,224	470,161	470,185	470,385	470,578	470,745	470,904	470,453	470,295	470,130	471,961	471,774	471,583	471,386	471,180	470,961	470,726	470,472	470,198	469,905	469,592	469,333	469,079
STR.	470,713	470,701	470,718	470,685	470,664	470,658	470,586	470,516	470,439	470,340	470,228	470,100	471,960	471,808	471,651	471,486	471,317	471,139	470,938	470,741	470,526	470,316	470,082	469,827	469,554	469,266	468,949	468,691	468,439
STR.	470,196	470,181	470,169	470,143	470,124	471,988	471,941	471,878	471,799	471,700	471,569	471,460	471,351	471,169	471,011	470,846	470,677	470,489	470,299	470,101	469,896	469,676	469,442	469,187	468,914	468,626	468,309	468,051	467,799
STR.	470,136	470,107	470,109	470,109	470,095	470,068	470,030	470,036	470,159	470,061	470,949	470,821	470,661	470,509	470,371	470,206	470,037	469,849	469,659	469,461	469,256	469,036	468,802	468,547	468,274	467,980	467,669	467,411	467,159
G.P.D. A2	470,613	470,905	470,796	470,774	470,743	470,713	470,664	470,601	470,582	470,495	470,312	470,185	470,044	469,893	469,735	469,570	469,401	469,214	469,023	468,826	468,620	468,401	468,166	467,912	467,638	467,345	467,032	466,773	466,519

See Note A-Sh No 65.

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

TABLES OF ELEVATIONS
SPANS A25 THRU A28

POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

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

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

SHEET 80 of 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	116
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

D.L. DEFLECTION (FT.)

	SPAN M 6											SPAN M 5										SPAN M 4									
FLOOR BEAMS	L2	15.5	15	14.5	14	13.5	13	12.5	12	11.5	11	10.5	10	9.5	9	8.5	8	7.5	7	6.5	6	5.5	5	4.5	4	3.5	3	2.5	2	1.5	1	L1.5	L1
	.000	.006	.025	.039	.046	.045	.037	.025	.012	.002	.000	.004	.014	.028	.042	.052	.055	.052	.042	.028	.014	.004	.000	.002	.012	.025	.037	.045	.046	.039	.025	.006	.000

THEORETICAL ELEVATION TOP OF CONCRETE

GIRD. M1	477.802	477.912	478.016	478.161	478.293	478.411	478.515	478.606	478.682	478.746	478.796	478.830	478.854	478.863	478.858	478.839	478.807	478.761	478.701	478.628	478.541	478.439	478.324	478.196	478.053	477.898	477.729	477.546	477.349	477.139	476.915	476.769	476.697
STR.	477.162	477.267	477.372	477.515	477.648	477.765	477.871	477.966	478.038	478.100	478.151	478.186	478.210	478.217	478.213	478.193	478.162	478.115	478.057	477.982	477.896	477.793	477.679	477.550	477.409	477.255	477.084	476.900	476.704	476.494	476.270	476.117	476.057
STR.	476.522	476.627	476.732	476.876	477.008	477.125	477.231	477.326	477.398	477.461	477.511	477.546	477.570	477.577	477.573	477.554	477.523	477.475	477.417	477.343	477.256	477.153	477.039	476.910	476.769	476.612	476.444	476.260	476.064	475.854	475.630	475.477	475.317
GIRD. M 2	475.682	475.992	476.096	476.241	476.373	476.491	476.595	476.686	476.763	476.826	476.876	476.912	476.934	476.943	476.938	476.919	476.887	476.841	476.781	476.708	476.621	476.519	476.404	476.275	476.132	475.976	475.809	475.634	475.439	475.219	474.995	474.839	474.677

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION

GIRD. M1	477.802	477.919	478.041	478.201	478.339	478.456	478.553	478.631	478.695	478.749	478.796	478.836	478.869	478.899	478.900	478.891	478.863	478.813	478.744	478.657	478.555	478.443	478.324	478.196	478.058	477.903	477.766	477.591	477.395	477.179	476.940	476.766	476.697
STR.	477.162	477.274	477.397	477.555	477.694	477.815	477.918	477.985	478.036	478.103	478.151	478.190	478.224	478.246	478.256	478.246	478.218	478.167	478.099	478.011	477.911	477.797	477.679	477.552	477.411	477.257	477.122	476.945	476.751	476.533	476.297	476.124	476.057
STR.	476.522	476.634	476.758	476.915	477.054	477.170	477.268	477.345	477.411	477.463	477.511	477.550	477.584	477.606	477.616	477.606	477.578	477.527	477.459	477.371	477.271	477.157	477.039	476.910	476.781	476.637	476.482	476.305	476.111	475.893	475.657	475.484	475.317
GIRD. M2	475.682	475.999	476.121	476.281	476.419	476.536	476.633	476.711	476.775	476.829	476.876	476.916	476.949	476.972	476.980	476.971	476.943	476.893	476.824	476.737	476.635	476.523	476.404	476.278	476.144	476.003	475.846	475.671	475.475	475.259	475.021	474.846	474.677

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION - SLAB THICKNESS (7")

GIRD. M1	477.219	477.335	477.458	477.618	477.756	477.873	477.969	478.048	478.111	478.166	478.213	478.253	478.285	478.306	478.317	478.308	478.279	478.230	478.160	478.073	477.975	477.860	477.740	477.615	477.485	477.345	477.183	477.008	476.810	476.595	476.357	476.189	476.14
STR.	476.579	476.696	476.814	476.975	477.111	477.227	477.325	477.402	477.467	477.520	477.568	477.607	477.641	477.668	477.678	477.668	477.635	477.584	477.516	477.428	477.327	477.214	477.096	476.963	476.818	476.654	476.538	476.363	476.167	475.950	475.714	475.540	475.374
STR.	475.939	476.050	476.174	476.335	476.471	476.587	476.685	476.763	476.827	476.881	476.926	476.967	477.001	477.029	477.049	477.059	476.995	476.944	476.876	476.788	476.688	476.574	476.456	476.323	476.178	476.054	475.898	475.703	475.507	475.310	475.074	474.900	474.734
GIRD. M2	475.299	475.415	475.538	475.698	475.836	475.953	476.049	476.128	476.196	476.246	476.293	476.333	476.365	476.388	476.397	476.388	476.359	476.310	476.240	476.153	476.052	475.940	475.820	475.695	475.562	475.420	475.263	475.088	474.892	474.675	474.437	474.262	474.094

See Note A - Sh No. 65

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

TABLES OF ELEVATIONS
SPANS M4 THRU M6
POPLAR STREET BRIDGE APPROACHES
RAMP "M"

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

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

SHEET 81 of 241

D BY RMR
BY VB
D BY RMR
ED BY KA

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	117
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

D.L. DEFLECTION (FT.)

	SPAN S13											SPAN S12										SPAN S11									
FLOOR BEAMS	16.5	16	15.5	15	14.5	14	13.5	13	12.5	12	11.5	11	10.5	10	9.5	9	8.5	8	7.5	7	6.5	6	5.5	5	4.5	4	3.5	3	2.5	2	1.5	1	L1.5	L1
	.002	.011	.025	.038	.048	.051	.048	.038	.025	.011	.002	.000	.003	.013	.027	.041	.051	.055	.052	.042	.028	.014	.003	.000	.003	.013	.026	.038	.045	.045	.038	.024	.004	.000
THEORETICAL ELEVATION TOP OF CONCRETE																																		
GIRD. S1	494.892	494.691	494.479	494.255	494.019	493.771	493.511	493.240	492.956	492.661	492.354	492.035	491.707	491.367	491.015	490.652	490.277	489.891	489.492	489.084	488.674	488.264	487.856	487.444	487.034	486.624	486.214	485.804	485.394	484.984	484.574	484.164	483.911	483.657
STR.	494.247	494.047	493.834	493.611	493.374	493.127	492.866	492.596	492.311	492.017	491.709	491.391	491.062	490.723	490.370	490.008	489.632	489.247	488.847	488.440	488.029	487.600	487.209	486.800	486.389	485.980	485.569	485.160	484.749	484.340	483.929	483.521	483.269	483.017
STR.	493.607	493.407	493.194	492.971	492.734	492.487	492.226	491.956	491.671	491.377	491.069	490.751	490.422	490.083	489.730	489.368	488.992	488.607	488.207	487.800	487.389	486.980	486.569	486.160	485.749	485.340	484.929	484.520	484.109	483.700	483.290	482.881	482.629	482.377
GIRD. S2	492.972	492.771	492.559	492.335	492.099	491.851	491.591	491.320	491.036	490.741	490.434	490.115	489.787	489.447	489.095	488.732	488.357	487.971	487.572	487.164	486.754	486.344	485.934	485.524	485.114	484.704	484.294	483.884	483.474	483.064	482.654	482.244	481.991	481.737
THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION																																		
GIRD. S1	494.894	494.703	494.505	494.294	494.067	493.823	493.560	493.279	492.982	492.673	492.356	492.035	491.710	491.380	491.043	490.694	490.329	489.946	489.545	489.127	488.703	488.278	487.858	487.444	487.038	486.637	486.240	485.842	485.439	485.030	484.613	484.188	483.915	483.657
STR.	494.249	494.059	493.858	493.650	493.422	493.179	492.915	492.635	492.337	492.029	491.711	491.391	491.065	490.736	490.398	490.050	489.684	489.302	488.900	488.483	488.058	487.634	487.213	486.800	486.393	485.993	485.595	485.198	484.794	484.386	483.968	483.546	483.274	483.017
STR.	493.609	493.419	493.219	493.010	492.782	492.539	492.275	491.995	491.697	491.389	491.071	490.751	490.425	490.096	489.758	489.410	489.044	488.662	488.260	487.843	487.418	486.994	486.573	486.160	485.753	485.353	484.955	484.558	484.156	483.746	483.328	482.906	482.634	482.377
GIRD. S2	492.974	492.783	492.585	492.374	492.147	491.903	491.640	491.359	491.062	490.753	490.436	490.115	489.790	489.460	489.123	488.774	488.409	488.026	487.626	487.207	486.783	486.358	485.938	485.524	485.118	484.717	484.320	483.922	483.519	483.110	482.693	482.268	481.995	481.737
THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION - SLAB THICKNESS (7")																																		
GIRD. S1	494.311	494.120	493.921	493.710	493.484	493.239	492.976	492.695	492.398	492.089	491.773	491.452	491.127	490.797	490.460	490.111	489.746	489.363	488.961	488.543	488.119	487.695	487.274	486.861	486.454	486.054	485.657	485.259	484.856	484.446	484.029	483.605	483.332	483.074
STR.	493.666	493.476	493.276	493.066	492.839	492.595	492.331	492.051	491.753	491.445	491.128	490.807	490.481	490.153	489.815	489.467	489.103	488.719	488.316	487.899	487.474	487.051	486.633	486.216	485.809	485.410	485.012	484.615	484.211	483.802	483.385	482.962	482.691	482.434
STR.	493.026	492.836	492.636	492.426	492.199	491.955	491.691	491.411	491.113	490.806	490.488	490.168	489.847	489.513	489.175	488.827	488.461	488.079	487.676	487.259	486.834	486.411	485.989	485.577	485.169	484.770	484.372	483.975	483.571	483.162	482.745	482.322	482.051	481.794
GIRD. S2	492.391	492.200	492.001	491.791	491.564	491.320	491.056	490.775	490.478	490.170	489.853	489.530	489.207	488.877	488.540	488.191	487.828	487.443	487.041	486.623	486.199	485.775	485.354	484.941	484.534	484.134	483.737	483.339	482.936	482.526	482.109	481.685	481.412	481.154

See Note A - Sh. No. 65.

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

TABLES OF ELEVATIONS
SPANS S11 THRU S13

POPLAR STREET BRIDGE APPROACHES
RAMP "S"

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

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

SHEET 82 OF 241

RMR
VB
RMR
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ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	118
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

	SPAN S15										SPAN S14											
FLOOR BEAMS	L2	27.5	27	26.5	26	25.5	25	24.5	24	23.5	23	22.5	22	21.5	21	20.5	20	19.5	19	18.5	18	17.5	17
	.000	.004	.024	.038	.045	.045	.038	.026	.013	.003	.000	.002	.014	.028	.043	.058	.055	.051	.041	.027	.013	.003	.000
GIRD. S1	496.395	496.334	496.368	496.417	496.449	496.473	496.484	496.484	496.475	496.449	496.413	496.366	496.308	496.238	496.156	496.061	495.957	496.840	495.711	496.571	496.419	496.256	496.080
STR.	495.655	495.690	495.705	495.770	495.805	495.808	495.840	495.839	495.824	495.804	495.769	495.751	495.664	495.593	495.513	495.417	495.313	495.195	495.067	494.926	494.775	494.611	494.436
STR.	495.715	495.060	495.085	495.130	495.165	495.188	495.200	495.199	495.188	495.164	495.129	495.081	495.024	494.953	494.872	494.777	494.672	494.555	494.427	494.286	494.135	493.971	493.796
GIRD. S2	494.375	494.414	494.448	494.495	494.528	494.553	494.564	494.564	494.552	494.529	494.493	494.446	494.388	494.318	494.236	494.142	494.037	493.920	493.791	493.651	493.496	493.336	493.160

GIRD. S1	496.395	496.338	496.370	496.421	496.453	496.478	496.488	496.490	496.480	496.452	496.413	496.371	496.320	496.260	496.196	496.118	496.030	495.930	495.753	496.599	496.430	496.259	496.080
STR.	495.655	495.695	495.743	495.808	495.851	495.873	495.878	495.865	495.841	495.807	495.769	495.725	495.676	495.621	495.554	495.475	495.383	495.277	495.159	494.954	494.789	494.614	494.436
STR.	495.015	495.068	495.109	495.168	495.211	495.233	495.238	495.225	495.202	495.167	495.129	495.085	495.036	494.982	494.914	494.830	494.729	494.607	494.469	494.314	494.143	493.974	493.796
GIRD. S2	494.375	494.418	494.478	494.533	494.575	494.598	494.602	494.590	494.566	494.532	494.493	494.450	494.402	494.348	494.278	494.195	494.093	493.976	493.833	493.679	493.512	493.339	493.160

GIRD. S1	496.711	496.702	496.709	496.715	496.711	496.705	496.709	496.707	496.708	496.689	496.670	496.747	496.799	496.832	496.835	496.831	496.829	496.809	496.771	496.716	496.648	496.575	496.497
STR.	496.027	496.111	496.162	496.225	496.268	496.289	496.288	496.268	496.239	496.204	496.166	496.124	496.076	496.026	495.971	495.911	495.844	495.768	495.684	495.594	495.498	495.395	495.287
STR.	494.431	494.471	494.524	494.589	494.638	494.650	494.645	494.641	494.618	494.584	494.546	494.503	494.455	494.399	494.337	494.268	494.193	494.112	494.024	493.929	493.828	493.720	493.606
GIRD. S2	493.791	493.835	493.889	493.950	493.998	494.031	494.039	494.027	493.998	493.949	493.890	493.821	493.743	493.655	493.557	493.450	493.334	493.209	493.076	492.934	492.784	492.625	492.457

ED BY RMR
BY VB
ED BY RMR
ED BY KA

See Note A - Sh. No. 65.

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

TABLES OF ELEVATIONS
SPANS S14 AND S15

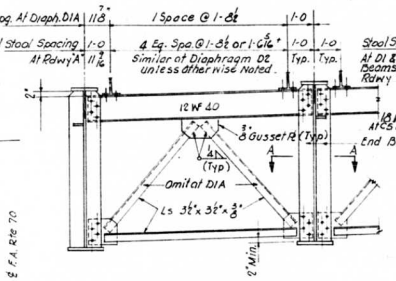
POPLAR STREET BRIDGE APPROACHES
RAMP "S"

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

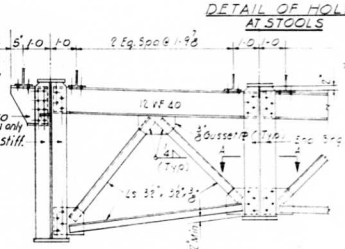
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET
83 of 241

FRAMING PLAN SPAN ABCD



DIAPHRAGM D1 & D1A



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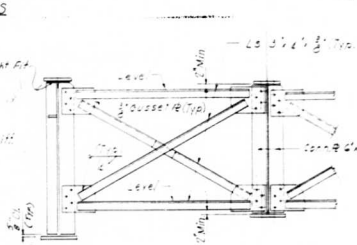

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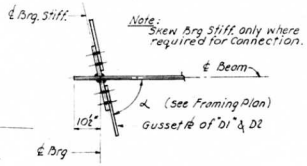
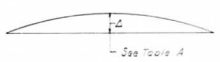
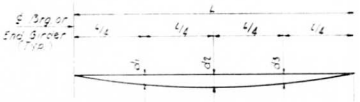


SECTION A A



CAMBER DIAGRAM

DETAIL OF HOLES AT STOOLS



D.L. DEFLECTION DIAGRAM

Wt. of Concrete only

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I — 70	82—3HVB	ST. CLAIR	213	119
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

TABLE A

Beam No.	D.L. DEFLECTION d1 (in.)	d2 (in.)	d3 (in.)	CAMBER Δ
A1	1/4	3/8	1/4	2 1/4
A2 A3 A4 A5	3/8	1/2	3/8	2 3/8
A6	1/2	3/8	1/2	2 1/4
A7	1/4	1/2	1/4	2 1/8
B1	3/16	5/8	1/8	2 1/4
B2 B3 B4	1/8	1/2	1/8	2 1/8
B5	0	1/8	0	1 3/4
C1	1/16	1/8	1/16	2 1/4
C2 C3 C4	1/8	1/8	1/8	2 1/4
C5 & D Typ. D2	1/16	1/8	1/16	2 1/8
Girder Line A	1/8	1/8	1/8	—
Remarks (1) (2) (3)	1/16	1/8	1/16	—

Note

For Data for Beams & Girders see Shts. No 85 & 86

For Data for Wt. see Sht. No. 85

For Data for Fixed Brgs. see Sht. No. 85

For Data for Exp. Brgs. see Sht. No. 89

ELEVATION TOP OF BEAM WEB FOR FABRICATION (DEFLECTION NOT INCLUDED)

Marks	A1	A2	A3	A4	A5	A6	A7	B1	B2	B3	B4	B5	C1	C2	C3	C4	C5	D1	D2	D3	D4	D5
Pier A1 (B1 & D1)	450.11	450.24	450.38	450.52	450.65	450.79	450.92	451.21	451.08	450.96	450.83	450.71	450.71	450.83	450.96	451.08	451.21	450.93	450.81	450.68	450.52	450.41
Pier by Others	453.79	453.89	453.97	454.09	454.19	454.29	454.36	454.56	454.39	454.23	454.06	453.90	453.80	453.96	454.05	454.13	454.03	453.96	453.84	453.66	453.42	453.30

Note: Elevations are given at ℄ of Brgs. See Typical Framing Detail Sht. Nos 85 & 86

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

FRAMING PLAN AND DETAILS
SPAN ABCD

POPLAR STREET BRIDGE APPROACHES
ROADWAYS "A" "B" "C" AND "D"

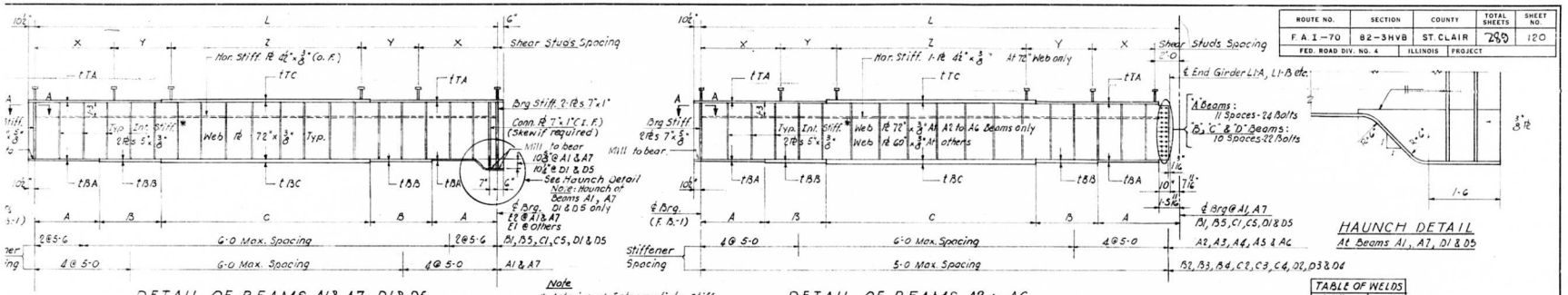
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

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

SHEET 84 OF 241

DRAWN BY RMR
CHECKED BY AS
TRACED BY V.B. & RMR
QUANTITIES BY KA

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I—70	82—3HVB	ST. CLAIR	289	120
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

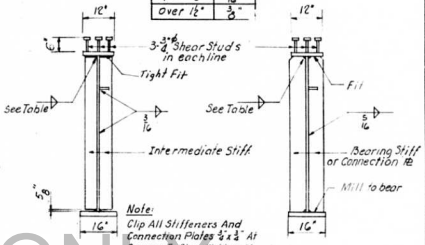


Note

*Asterisk at Intermediate Stiff: At locations along all beams where Diaphragms occur, Connection Pls 6"x⅜" Shall be used in lieu of Stiff.

BEAM SCHEDULE

Beam No.	A1	A2	A3	A4	A5	A6	A7	B1	B2	B3	B4	B5	C1	C2	C3	C4	C5	D1	D2	D3	D4	D5	Beam No.
L	118-10⅜	117-8 1/16	116-6½	115-4⅞	114-2 7/16	113-1⅜	112-6 13/16	111-10 15/16	110-6⅞	109-2⅞	107-10⅞	106-6⅞	105-10 15/16	104-6 13/16	103-2 13/16	101-10⅞	100-6⅞	99-10¼	98-8 5/16	96-10 1/16	95-1⅜	93-3½	L
A	13-0	13-0	13-0	13-0	13-0	13-0	13-0	13-0	12-0	12-0	12-0	13-0	24-0	12-0	12-0	12-0	24-0	24-0	12-0	12-0	12-0	20-0	A
B	14-0	14-0	14-0	14-0	14-0	14-0	14-0	13-0	12-0	12-0	12-0	13-0	—	12-0	12-0	12-0	—	—	12-0	12-0	12-0	—	B
C	66-10⅛	63-8 7/16	62-6¼	61-4⅛	60-2 1/16	59-1⅜	58-6 13/16	57-10 15/16	62-6⅛	61-2⅛	59-10⅛	54-6⅛	57-10 15/16	56-6 13/16	55-2 13/16	53-10⅛	52-6⅛	51-10¼	50-8 5/16	48-10 1/16	47-1⅜	53-3½	C
t TA	⅜"	⅜"	⅜"	⅜"	⅜"	⅜"	⅜"	½"	½"	⅜"	⅜"	½"	½"	⅝"	⅝"	⅝"	½"	½"	⅜"	⅜"	⅝"	½"	t TA
t TB	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	t TB
t TC	1¼"	1⅛"	1⅛"	1⅛"	1"	1"	1"	⅞"	⅞"	⅛"	⅛"	1⅜"	¾"	1"	1"	1"	¾"	¾"	½"	⅝"	⅝"	½"	t TC
t BA	½"	⅜"	¾"	¾"	½"	¾"	¾"	¾"	⅝"	¾"	¾"	¾"	¾"	¾"	⅝"	¾"	¾"	½"	⅝"	¾"	½"	¾"	t BA
t BB	1⅛"	1⅛"	1⅛"	¾"	1⅛"	1⅛"	1⅛"	1"	1⅛"	1⅛"	1⅛"	1⅛"	—	1⅛"	1⅛"	1⅛"	—	—	1"	1"	1"	—	t BB
t BC	1⅞"	1⅞"	1⅞"	¾"	1⅞"	1⅞"	1⅞"	1⅞"	1⅞"	1⅞"	1⅞"	1⅞"	1¼"	1⅞"	1⅞"	1⅞"	1¼"	1⅛"	1½"	1½"	1⅛"	¼"	t BC
X	37@7½"	57@7½"	37@7½"	37@7½"	37@7½"	37@7½"	37@7½"	33@8"	38@7"	38@7"	38@7"	33@8"	32@8"	35@7"	35@7"	35@7"	36@7"	36@7"	33@7"	33@7"	33@7"	33@8"	X
Y	16@11"	16@11"	16@11"	16@11"	16@11"	16@11"	16@11"	12@11"	13@10"	13@10"	13@10"	13@10"	13@11"	19@10"	19@10"	19@10"	19@10"	17@10"	18@10"	18@10"	18@10"	13@11"	Y
Z(Spacing)	14"	13"	14"	14"	14"	14"	14"	14"	13"	13"	13"	14"	14"	13"	13"	15"	13"	15"	15"	15"	13"	14"	Z(Spacing)

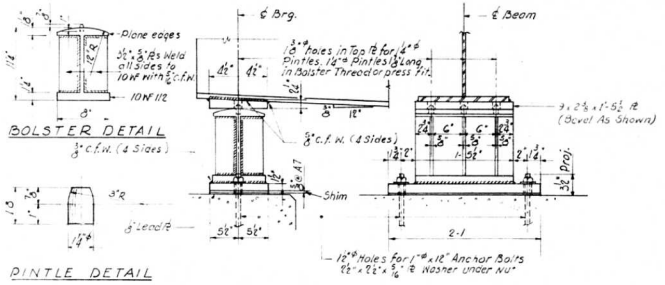


TYPICAL SECTIONS THRU BEAMS

TABLE OF WELDS	
PL Thickness	Weld
Up to ½"	5/16
Over ½"	⅜

Note

For Details of Section A-A at Brg. Stiff. see Sht. No. 84
For D.L. Deflections see Sht. No. 84
For Details of Expansion Brgs. E1 & E2 see Sht. No. 129



Est. Wt. Stud Shear Connectors = 8851 Lbs.

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

STEEL DETAILS
SPAN ABCD
POPLAR STREET BRIDGE APPROACHES
ROADWAYS "A" "B" "C" AND "D"

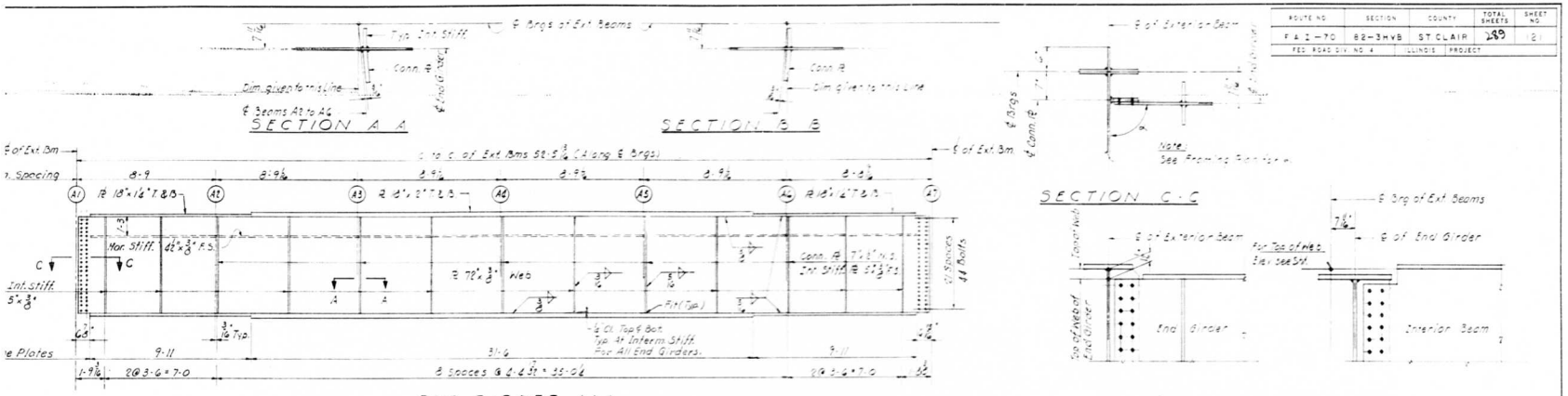
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

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

SHEET 85 OF 241

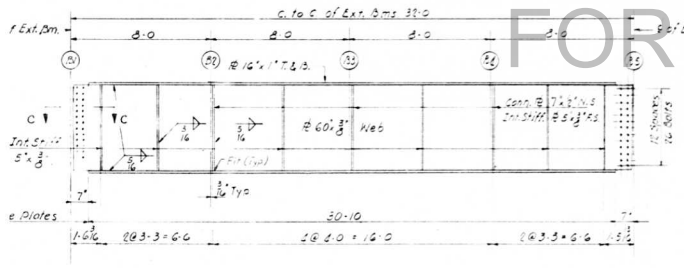
D BY RMR
BY AS
D BY JBB RMR
D BY KA

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82-3HVB	ST. CLAIR	239	21
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

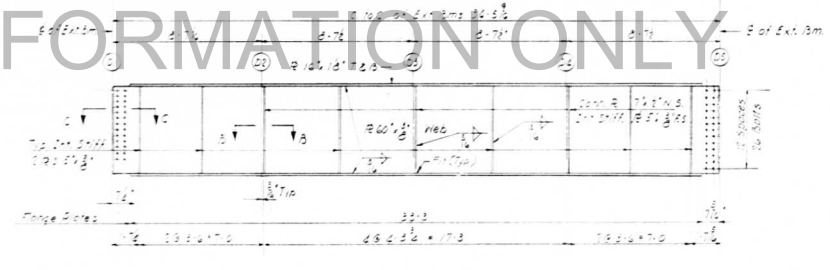


END GIRDER L1-A

TYPICAL FRAMING DETAILS
SHOWING RELATIVE TOPS OF WEBS



END GIRDER L1-B
END GIRDER L1-C SAME



END GIRDER L1-D

NOTE
For C. L. Deflections see Sht. No. 84
For Type of Welds see Sht. No. 85
For Expansion Device Details see Sht. No. 31

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

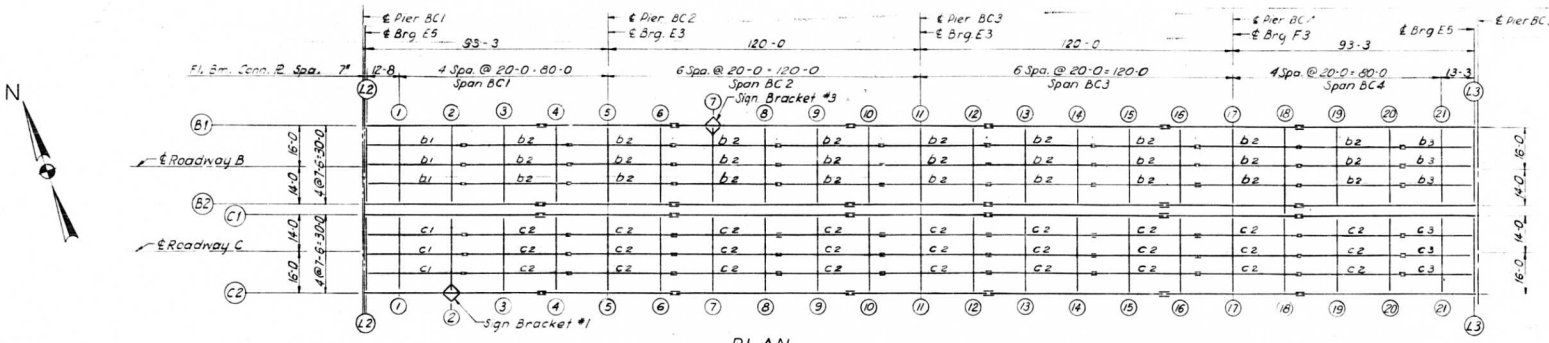
STEEL DETAILS
SPAN ABCD
POPLAR STREET BRIDGE APPROACHES
ROADWAYS "A" "B" "C" AND "D"

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

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

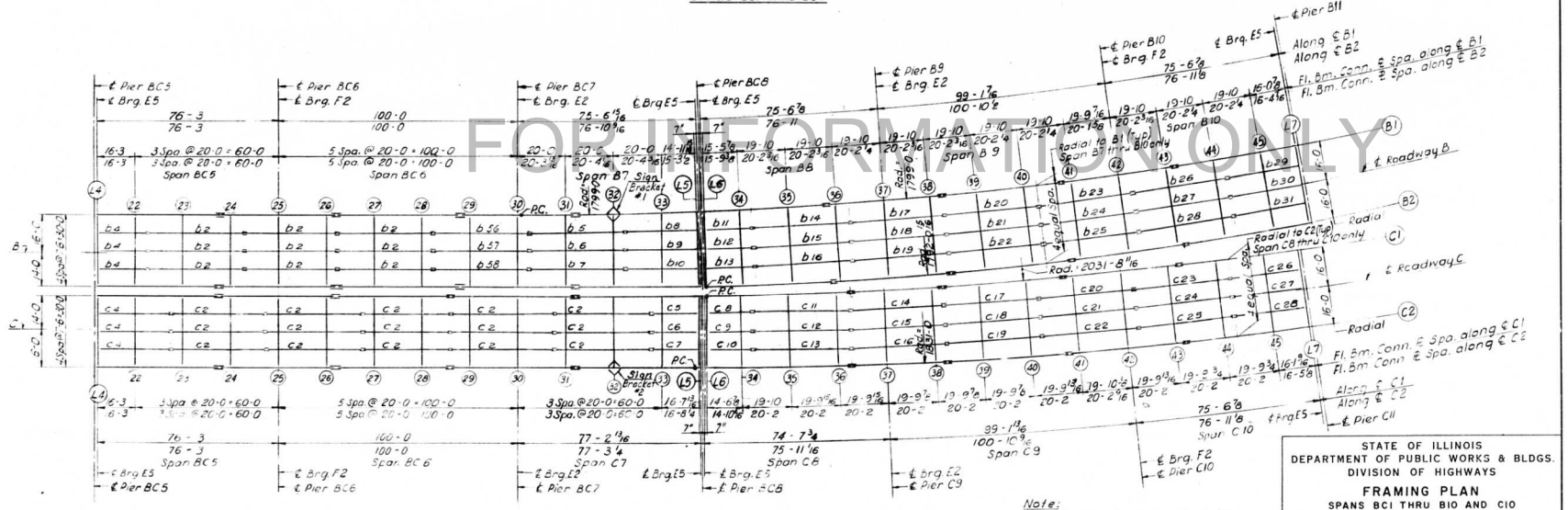
SHEET
86 of 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.— 70	82-3HVB	ST CLAIR	189	122
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	



PLAN

SPANS BC1 THRU BC4



PLAN

SPANS BC5 THRU B10
SPANS BC5 THRU C10

Note:
Dimensions locating Floor Beams are given to the Floor Beam Conn. Plate see Sketch Sh. No. 90

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

FRAMING PLAN

SPANS BC1 THRU B10 AND C10

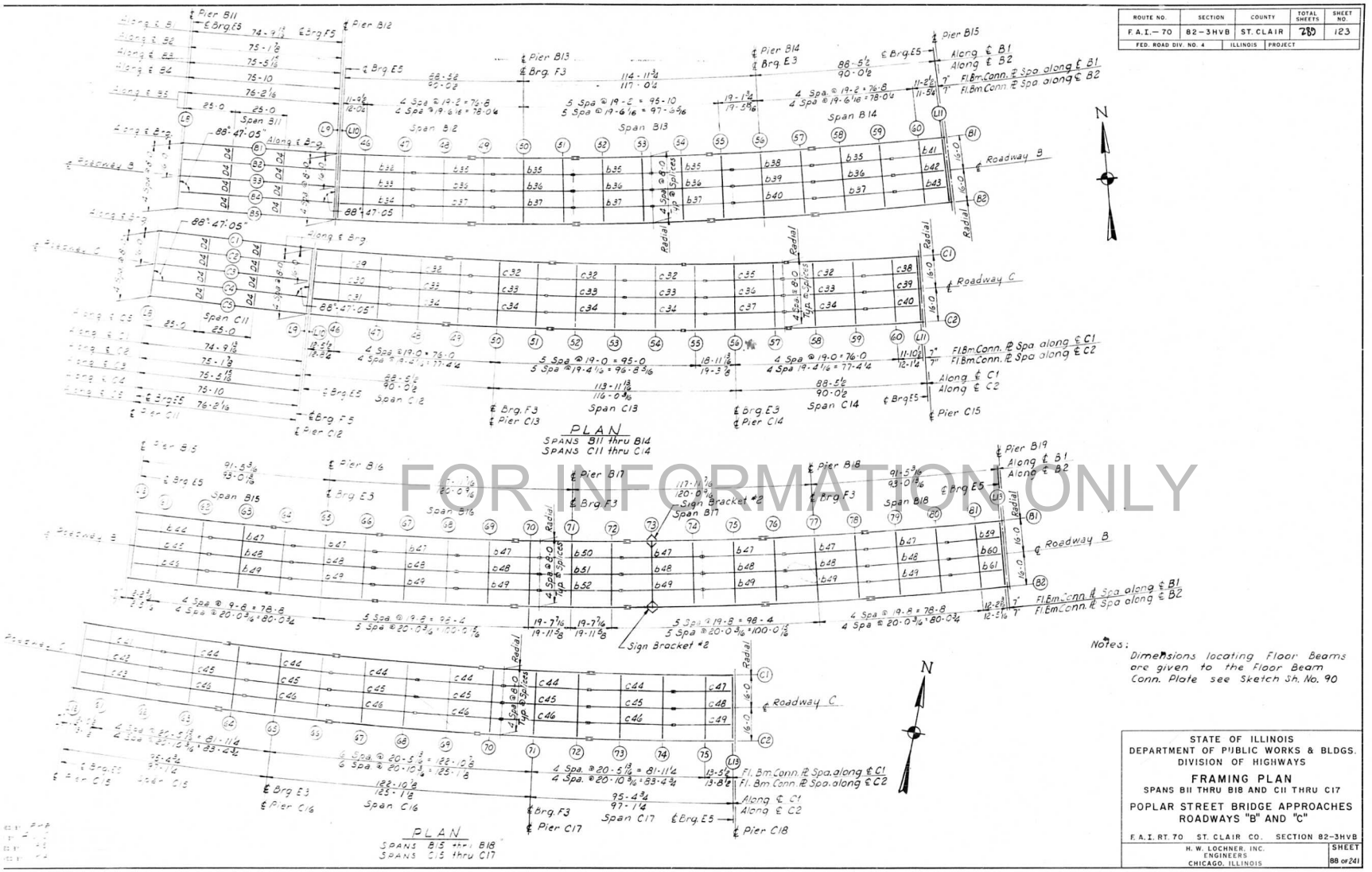
POPLAR STREET BRIDGE APPROACHES
ROADWAYS "B" AND "C"

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

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

SHEET 87 OF 241

EMR
I.M.
AJC
KA



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82-3HVB	ST. CLAIR	280	123
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

Notes:
Dimensions locating Floor Beams are given to the Floor Beam Conn. Plate see Sketch Sh. No. 90

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

FRAMING PLAN

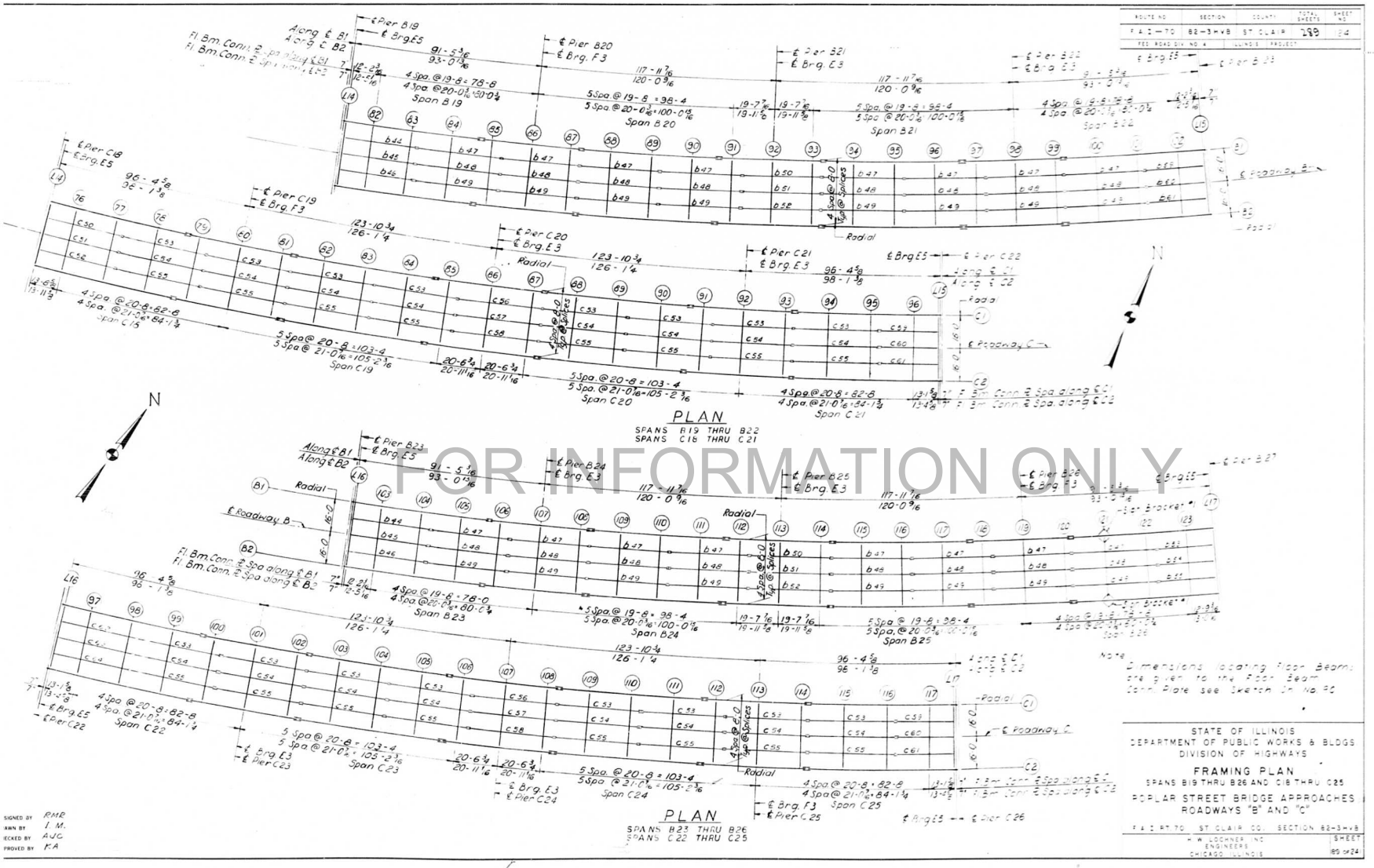
SPANS B11 THRU B18 AND C11 THRU C17

POPLAR STREET BRIDGE APPROACHES
ROADWAYS "B" AND "C"

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

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

SHEET 88 OF 241



ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.I.—70	82-3+V8	ST CLAIR	199	24
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

Note
Dimensions locating Floor Beams are given to the Floor Beam Conn. Plate see Sketch Sh No 80

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

FRAMING PLAN
SPANS B19 THRU B26 AND C18 THRU C25
POPLAR STREET BRIDGE APPROACHES
ROADWAYS "B" AND "C"

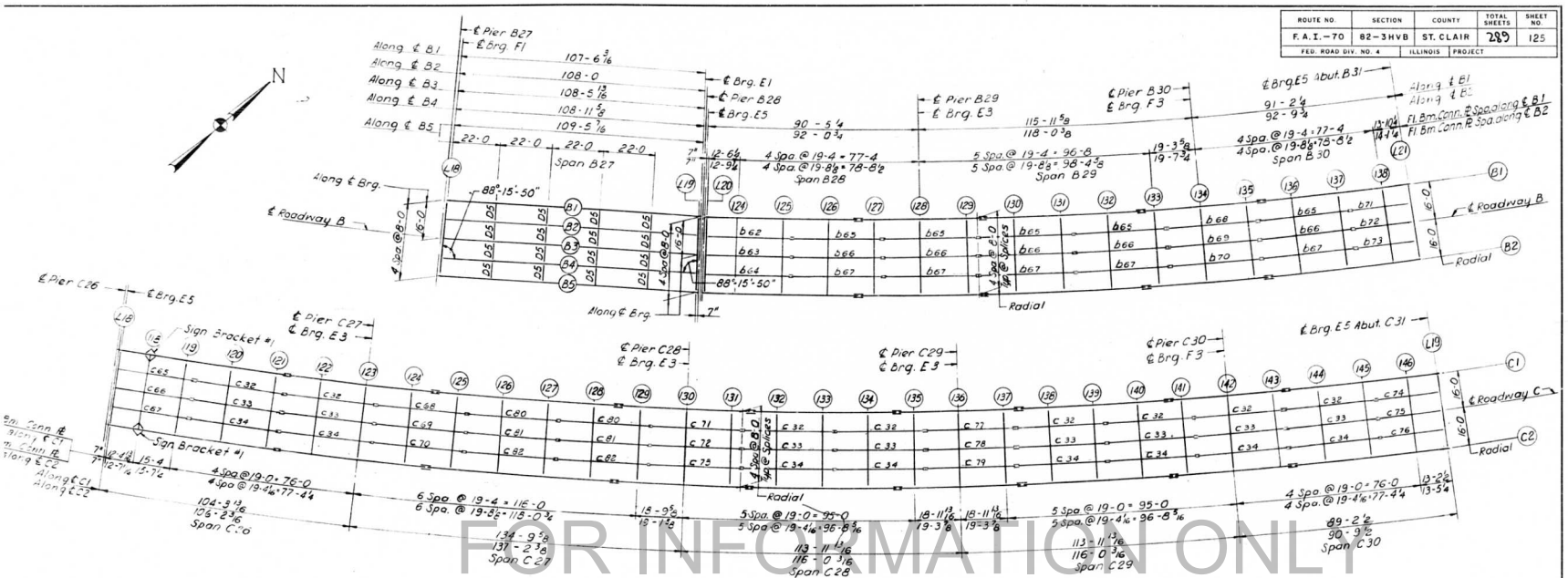
F.A.I. RT 70 ST CLAIR CO. SECTION 82-3+V8

H.W. LOCHNER INC
ENGINEERS
CHICAGO, ILLINOIS

SHEET
199 OF 24

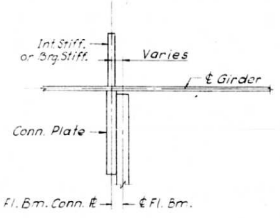
SIGNED BY RMB
DRAWN BY I.M.
CHECKED BY AJC
APPROVED BY KA

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	125
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



PLAN

SPANS B27 THRU B30
SPANS C26 THRU C30



FLOOR BEAM LOCATION SKETCH

D BY RMR
BY I.M.
D BY AJC
ED BY KA

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

FRAMING PLAN
SPANS B27 THRU B30 AND C26 THRU C30

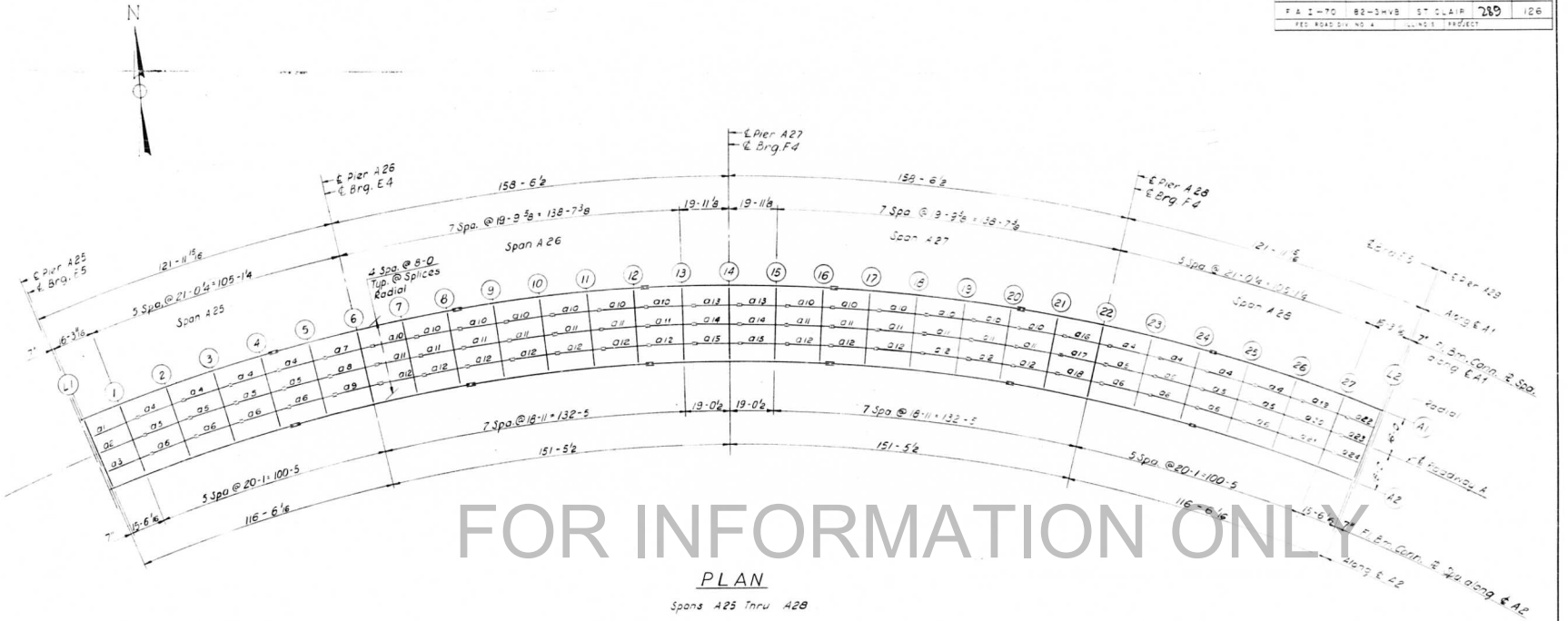
POPLAR STREET BRIDGE APPROACHES
ROADWAYS "B" AND "C"

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

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

SHEET 90 of 241

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F A I-70	82-3HVB	ST CLAIR	289	126
FED. ROAD DIV. NO. 5	ILL. NO. 5	PROJECT		



PLAN

Spans A25 thru A28

ELEVATION TOP OF GIRDER WEB FOR FABRICATION (DEFLECTION NOT INCLUDED)

Girder \ Loc.	℄ E. Brg. Pier A25	Splice 1	℄ Pier A26	Splice 2	Splice 3	℄ Pier A27	Splice 4	Splice 5	℄ Pier A28	Splice 6	℄ W. Brg. Pier A29
A1	469.00	471.09	471.70	472.40	472.99	472.96	472.92	472.18	471.54	470.7	468.73
A2	466.44	468.53	469.14	469.84	470.43	470.40	470.36	469.62	468.98	468.5	466.17

Note:
Dimensions locating Floor Beams are given to the Floor Beam Conn. Plate see sketch Sh. No. 90

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

FRAMING PLAN
SPANS A25 THRU A28

POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

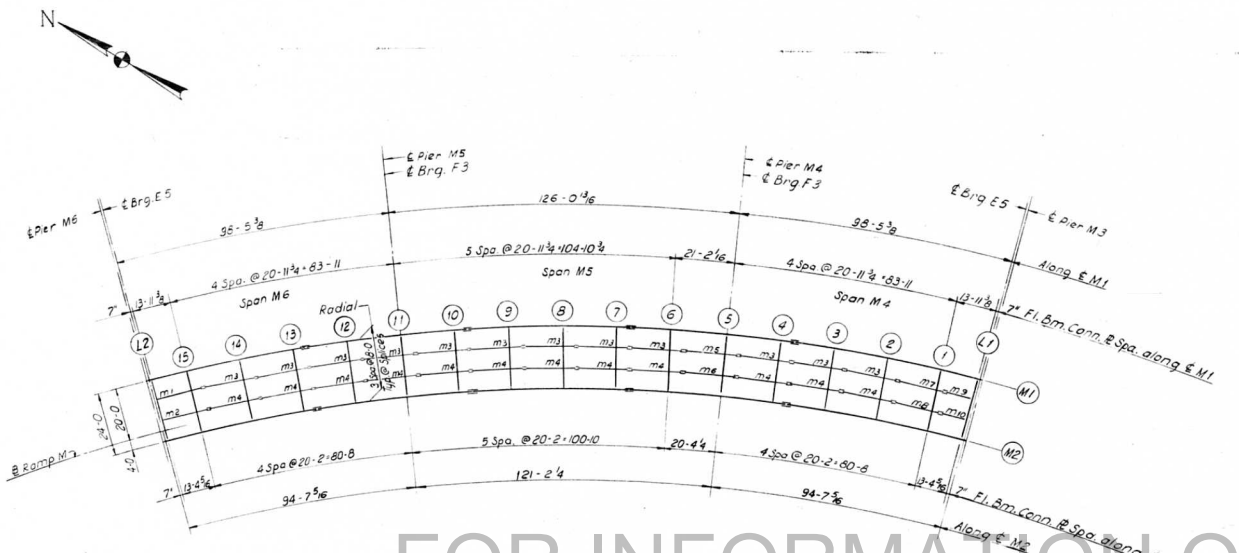
F A I RT 70 ST CLAIR CO. SECTION 82-3HVB

H W LOCHNER INC
ENGINEERS
CHICAGO

SHEET
91 of 241

D BY RMR
BY I.M.
BY AJC
D BY KA

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	265	127
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



PLAN

Span M4 Thru M6

ELEVATION TOP OF GIRDER WEB FOR FABRICATION (DEFLECTION NOT INCLUDED)

Loc. / Girder	℄ E. Brg. Pier M6	Splice 4	℄ Pier M5	Splice 3	Splice 2	℄ Pier M4	Splice 1	℄ W. Brg Pier M3
M1	476.55	477.64	477.82	477.94	477.76	477.35	477.07	475.67
M2	474.98	475.72	475.90	476.02	475.84	475.43	475.15	473.75

Note:
Dimensions locating Floor Beams are given to the Floor Beam Conn. Plate see sketch Sh. No. 90

BY RMR
I.M.
Y AJC
BY KA

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

FRAMING PLAN
SPANS M4 THRU M6

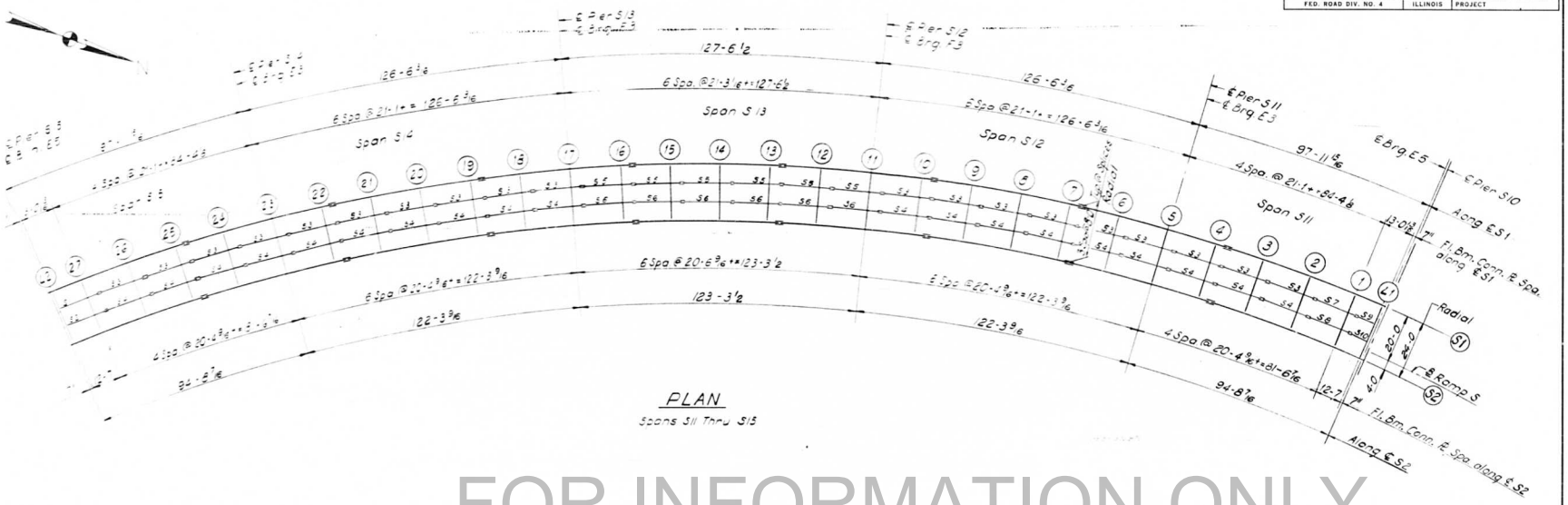
POPLAR STREET BRIDGE APPROACHES
RAMP "M"

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

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

SHEET 92 OF 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	128
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



PLAN

Spans S11 Thru S15

ELEVATION TOP OF GIRDER WEB FOR FABRICATION (DEFLECTION NOT INCLUDED)

Girder	℄ Brg E3	Splice 8	℄ Pier S14	Splice 7	Splice 6	℄ Pier S13	Splice 5	Splice 4	℄ Pier S12	Splice 3	Splice 2	℄ Pier S11	Splice 1	℄ E. Brg. Pier S10
S1	498.37	495.57	495.45	495.36	494.74	494.11	493.69	492.21	491.07	490.30	487.99	486.53	485.53	482.72
S2	498.45	495.65	495.53	495.44	494.82	494.19	493.77	492.29	489.15	488.38	486.07	484.6	483.61	480.80

Note

Dimensions locating Floor Beams are given to the Floor Beam Conn. Plate see Sketch Sh. No. 90

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

FRAMING PLAN
SPANS S11 THRU S15

POPLAR STREET BRIDGE APPROACHES
RAMP "S"

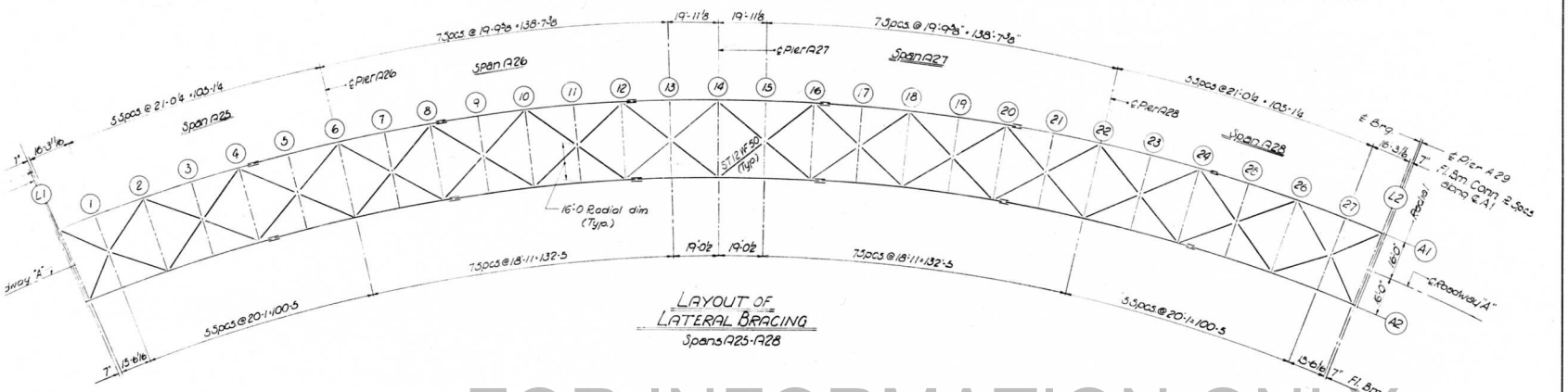
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

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

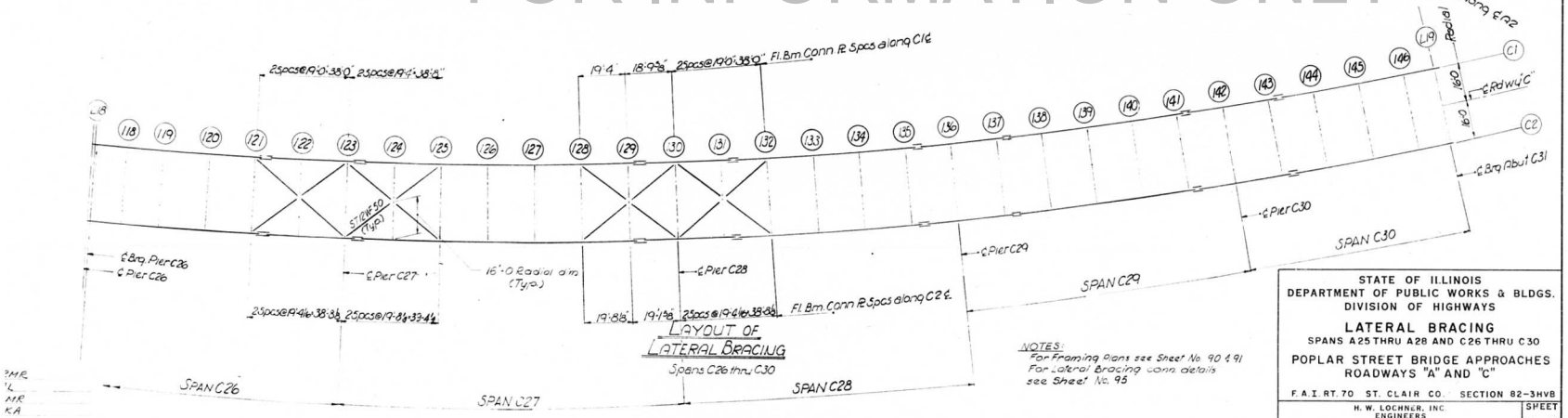
SHEET 93 of 241

DES. RMR
DET. J.M.
CK. A.L.C.
QA

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I. – 70	82 – 3 HVB	ST. CLAIR	289	129
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



LAYOUT OF LATERAL BRACING
Spans A25-A28



LAYOUT OF LATERAL BRACING
Spans C26 thru C30

NOTES:
For Framing Plans see Sheet No. 90 & 91
For Lateral Bracing Conn. details see Sheet No. 95

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

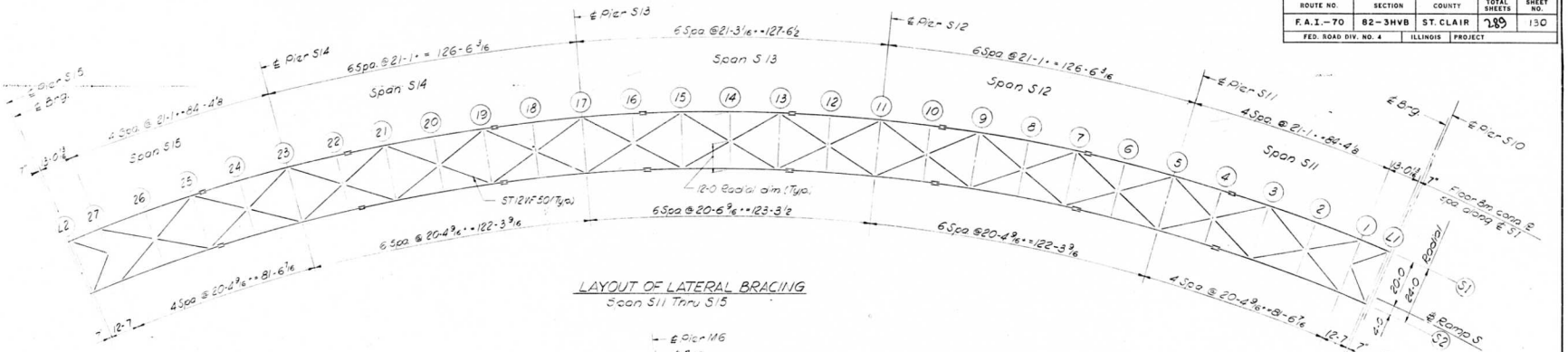
LATERAL BRACING
SPANS A25 THRU A28 AND C26 THRU C30
POPLAR STREET BRIDGE APPROACHES
ROADWAYS "A" AND "C"

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

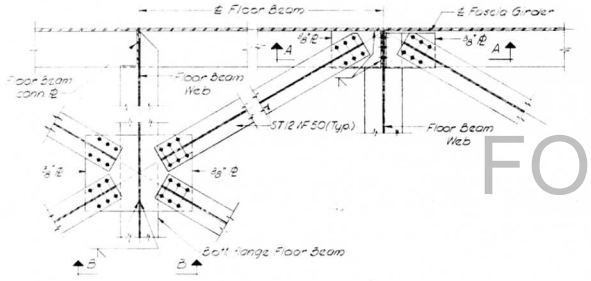
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 94 of 241

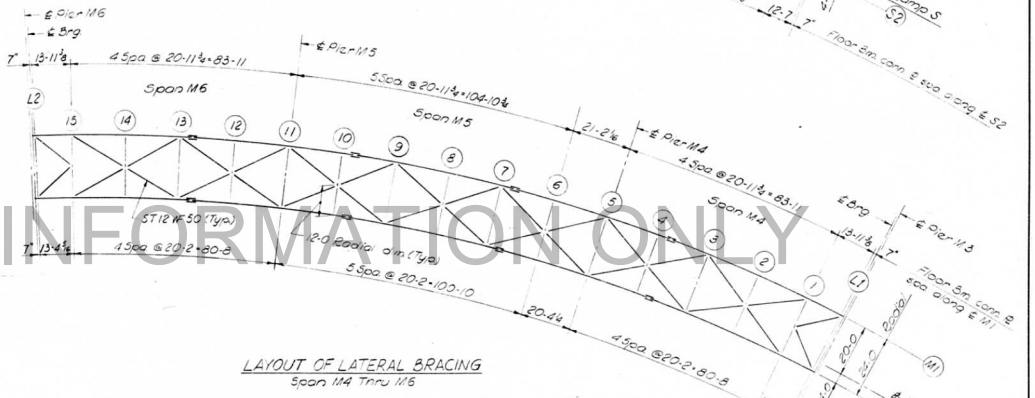
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	130
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	



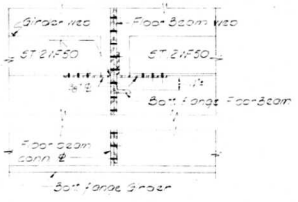
LAYOUT OF LATERAL BRACING
Span S11 Thru S15



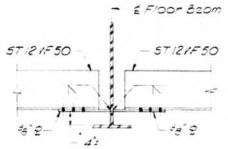
TYPICAL DETAIL PLAN



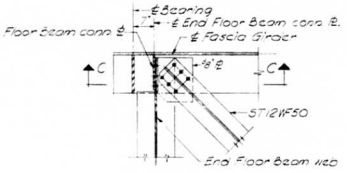
LAYOUT OF LATERAL BRACING
Span M4 Thru M6



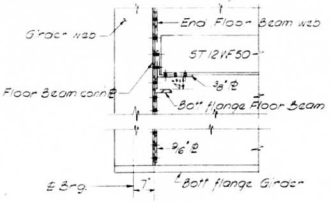
SECTION A-A



SECTION B-B



TYPICAL DETAIL PLAN AT END FLOOR BEAM



SECTION C-C

Note:
All other connections not shown are similar.

NOTE:
For Framing Plans see Sheet No. 92 & 93

SIGNED BY RMR
DRAWN BY E.F.
CHECKED BY RMR
APPROVED BY CA

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

LATERAL BRACING
SPANS S11 THRU S15 AND M4 THRU M6

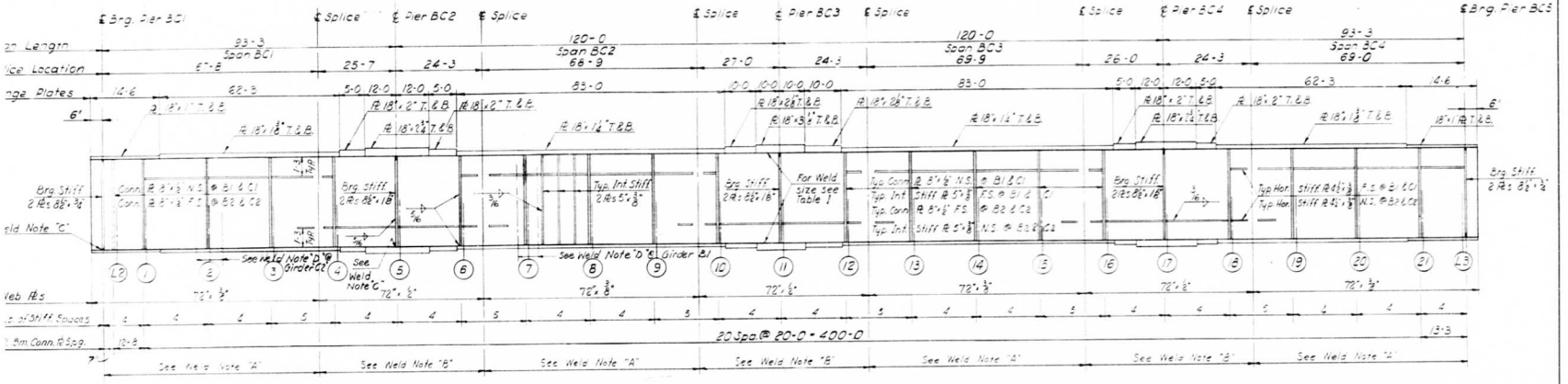
POPLAR STREET BRIDGE APPROACHES
RAMPS "M" AND "S"

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

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

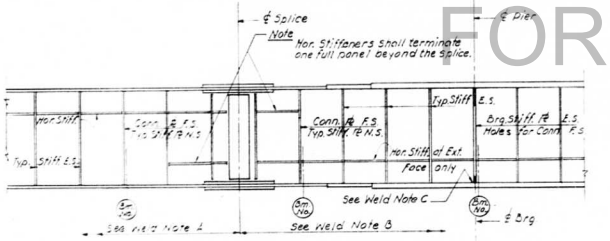
SHEET 95 OF 241

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82—3HvB	ST. CLAIR	289	131
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	



GIRDER B1, B2 & C1, C2

Spans BC1 thru BC4



TYPICAL GIRDER DETAILS

(Exterior Face shown)

Note All Bearing Stiff. & Conn. Pls to be Vertical

TABLE I	
Plate Size	Weld
up to 1/2"	5/16"
over 1/2" to 3/4"	1/2"
over 3/4"	5/8"

Note:
Clip All Stiffeners And Connection Plates 1/2"x 1/2" At Corners To Clear Welding Of Flange To Web.

TYPICAL INTERMEDIATE STIFFENER

The stiffners are to be undercut by 5/8" at tension flange and to a tight fit at the compression flange.

Welding Notes

Note A Weld Connection Pls To the Top Flange and fit to the Bottom Flange

Note B Weld Connection Pls To the Bottom Flange and fit to the Top Flange.

Note C All Bearing Stiffeners shall be Milled to bear at the Bottom Flange and Fit to the Top Flange.

Note D For Sign Bracket Details see Sht. No. 134

A. J. A.
I. M.
S. V.
K. A.

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

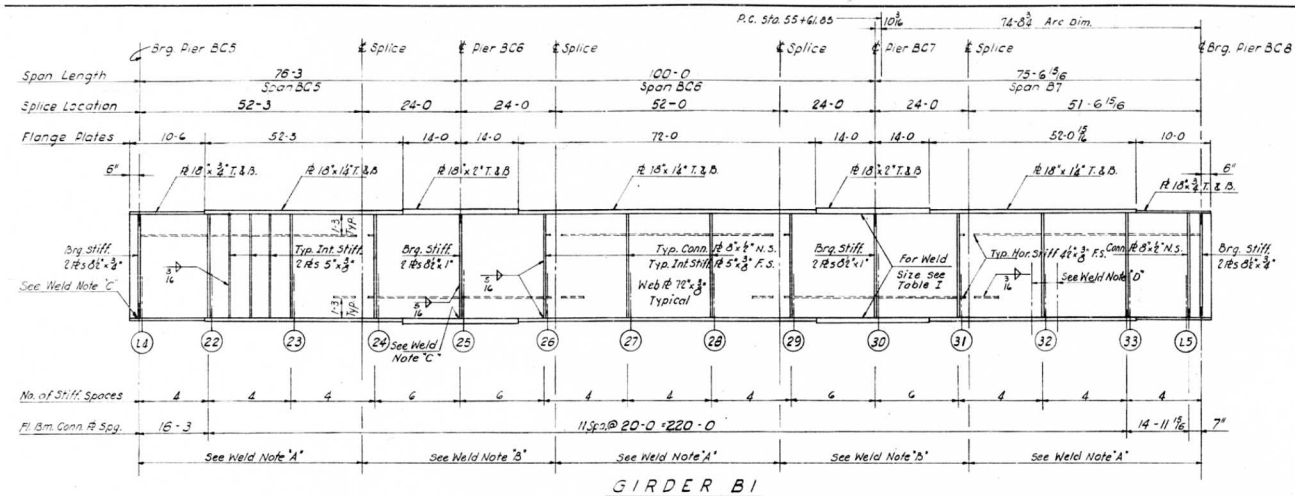
GIRDERS B1, B2, C1 AND C2
SPANS BC1 THRU BC4

POPLAR STREET BRIDGE APPROACHES
ROADWAYS "B" AND "C"

F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HvB

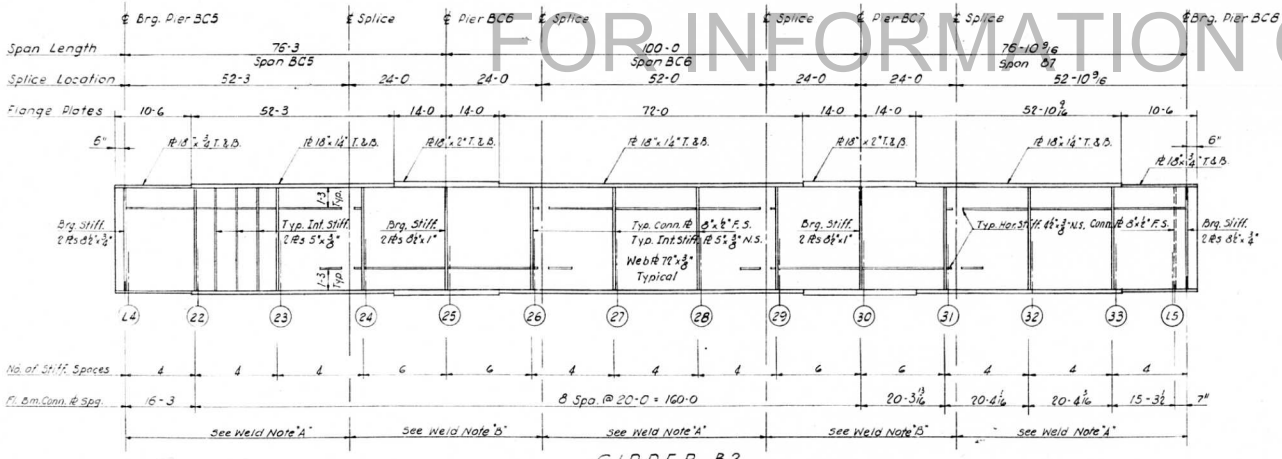
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO ILLINOIS

SHEET
136 OF 24



GIRDER B1

Spans BC5 thru B7



GIRDER B2

Spans BC5 thru B7

NOTES

Arc Dim. shown on Girder B1 is given along ℄ of Web.
Radius of the curved portion of Girder B1 is 1799'0"
For Weld Notes A, B, C & D see Sht. No. 96
For Typ. Girder Details see Sht. No. 96
All Bearing Stiffeners and Conn. Pls to be vertical.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I.—70	82—3HVB	ST. CLAIR	285	132
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

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

GIRDERS B1 AND B2
SPANS BC5 THRU BC7
POPLAR STREET BRIDGE APPROACHES
ROADWAY "B"

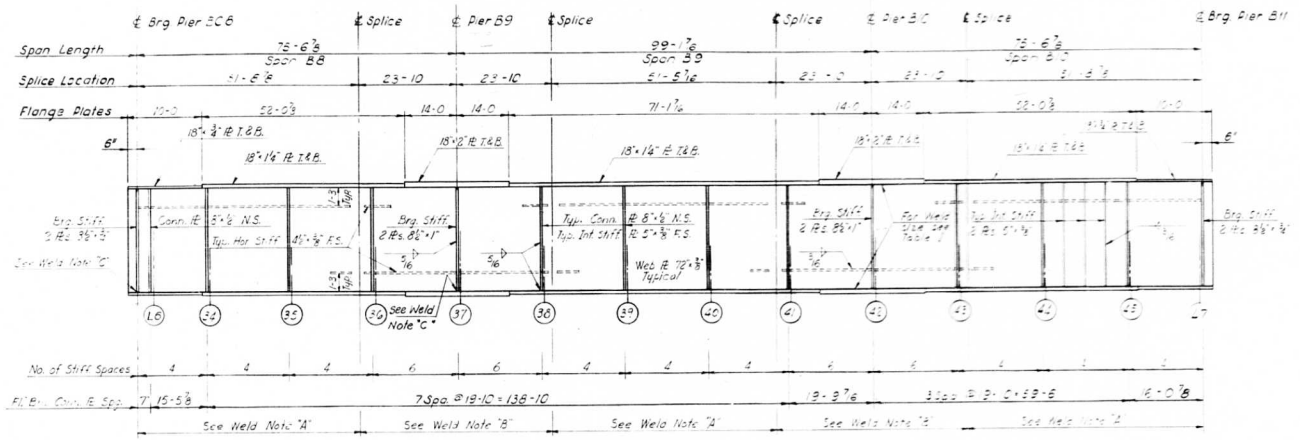
F. A. I. RT. 70 ST. CLAIR CO. SECTION 82—3HVB

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

SHEET 97 of 241

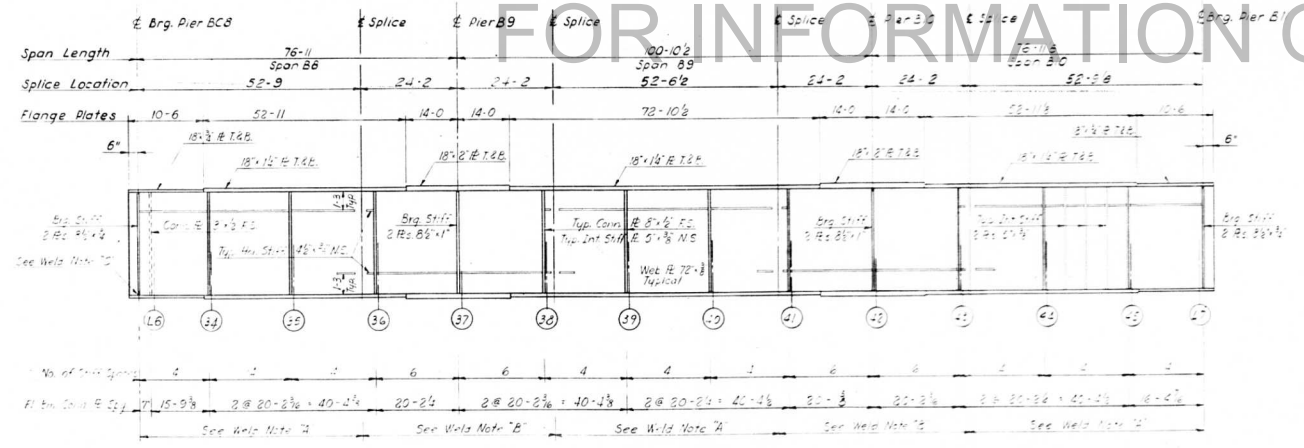
D BY A. J. A.
BY I. M.
D BY J. V.
ED BY K. A.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I-70	82-3HVB	ST. CLAIR	289	133
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



GIRDER B1

Spans B8 thru B10



GIRDER B2

Spans B8 thru B10

NOTES

All Longitudinal Dimensions shown on this sheet are Arc Dimensions given along ℄ of Web.

For Weld Notes "A" "B" & "C" see Sh. No. 96

For Typ. Girder Details see Sh. No. 96

All Bearing Stiffeners and Conn. Pls. to be vertical

Radius to ℄ Web - Girder B1 = 1799.0'

Radius to ℄ Web - Girder B2 = 1798.0 1/2'

DESIGNED BY A. J. A.

DETAILED BY I. M.

CHECKED BY S. V.

APPROVED BY K. A.

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

GIRDERS B1 AND B2
SPANS B8 THRU B10

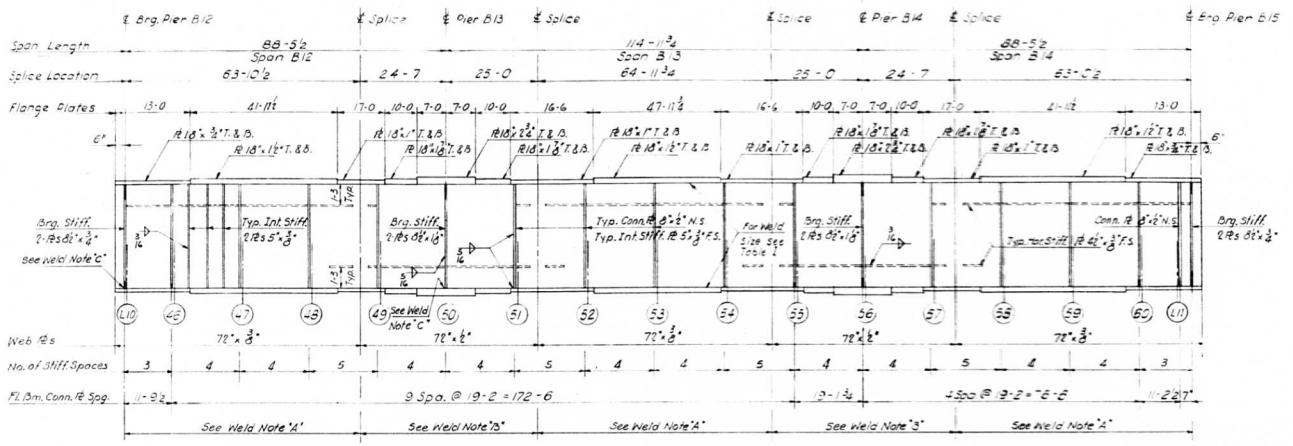
POPLAR STREET BRIDGE APPROACHES
ROADWAY "B"

F.A.I. RT 70 ST. CLAIR CO. SECTION 82-3HVb

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

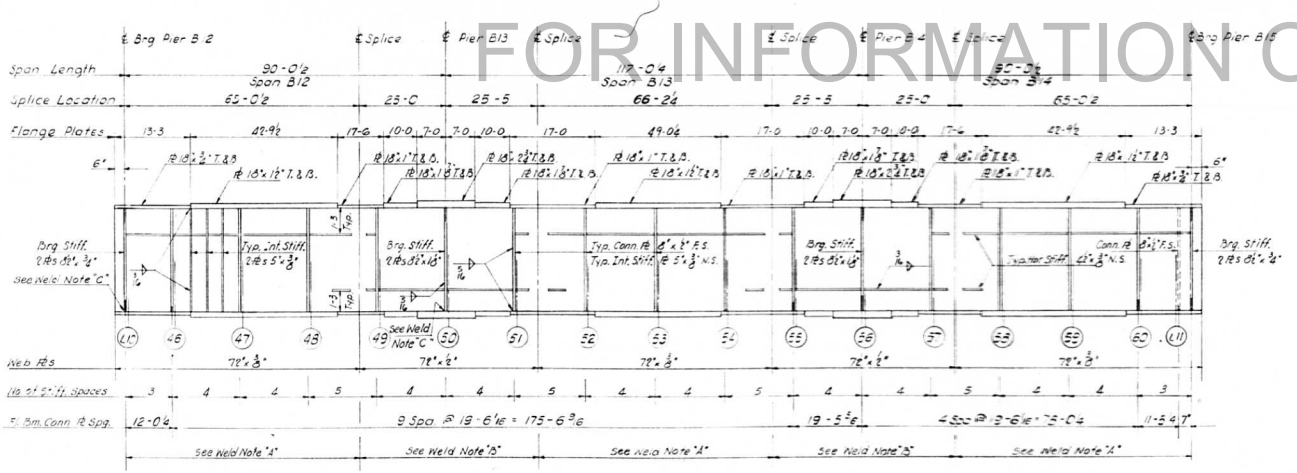
SHEET 98 of 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I.-70	82-3HVB	ST. CLAIR	289	134
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



GIRDER B1

Spans B12 thru B14



GIRDER B2

Spans B12 thru B14

NOTES

All Longitudinal Dimensions shown on this sheet are Arc Dimensions given along ℄ of Web.
Radius to ℄ Web Girder B1 = 1799'-0"
Radius to ℄ Web Girder B2 = 1831'-0"
For Weld Notes "A" "B" & "C" see Sht. No. 96
For Typ. Girder Details see Sht. No. 96
All Bearing Stiffeners and Conn. Pls to be vertical.

SIGNED BY	A. J. A
DRAWN BY	I.M.
CHECKED BY	S. V.
APPROVED BY	K. A

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

GIRDERS B1 AND B2
SPANS B12 THRU B14

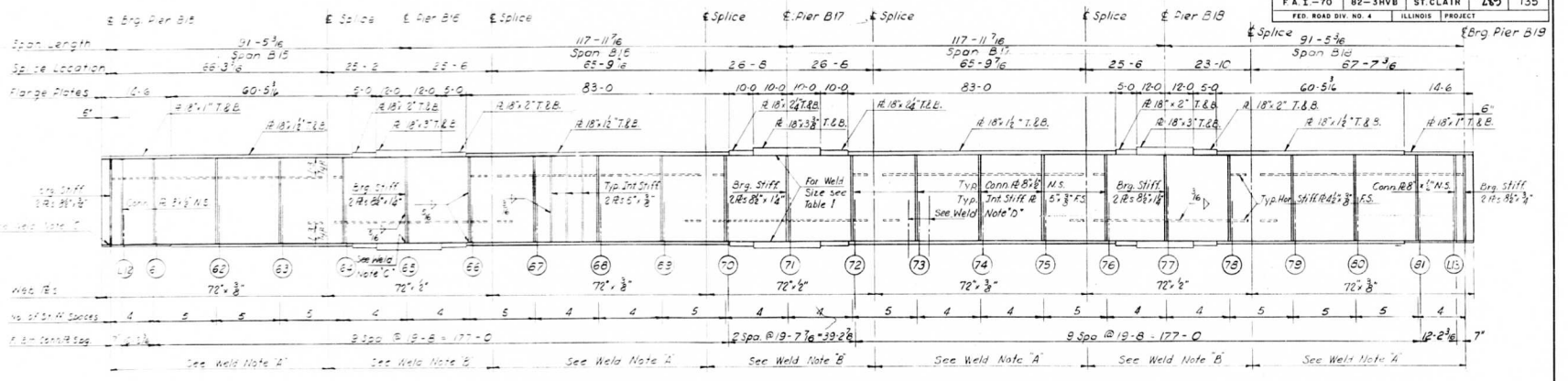
POPLAR STREET BRIDGE APPROACHES
ROADWAY "B"

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

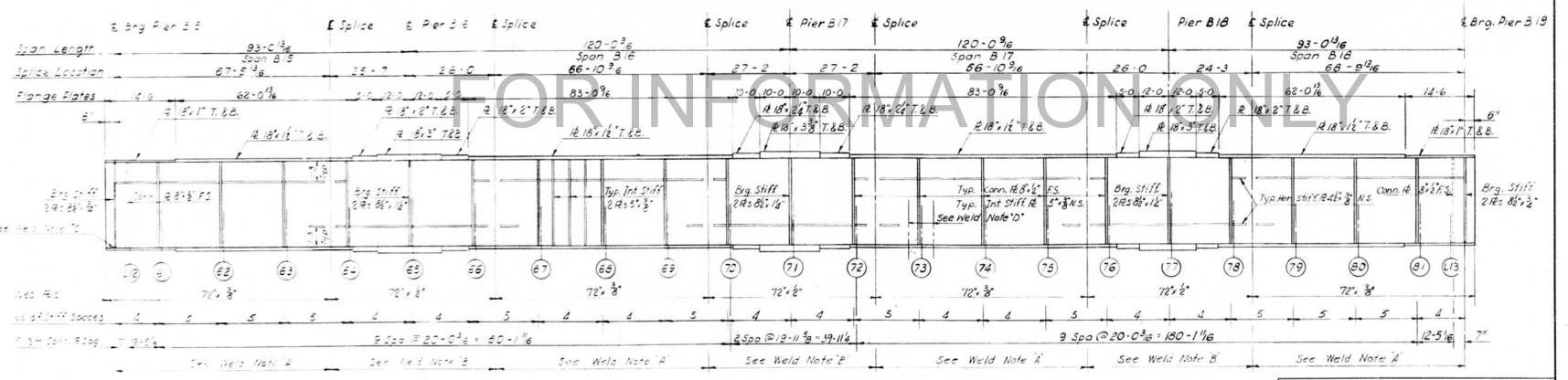
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 99 OF 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	135
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	



GIRDER B1
Spans B15 thru B18



GIRDER B2
Spans B15 thru B18

NOTES

All Longitudinal Dimensions shown on this sheet are Arc Dimensions given along ℄ of Web.
Radius to ℄ Web - Girder B1 = 1799'-0".
Radius to ℄ Web - Girder B2 = 1831'-0".
For Weld Notes A-B-C & D see Sh. No. 96
For Typ. Girder Details see Sh. No. 96
All Bearing Stiffeners and Conn. Pls to be vert.

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

GIRDERS B1 AND B2
SPANS B15 THRU B18

POPLAR STREET BRIDGE APPROACHES
ROADWAY "B"

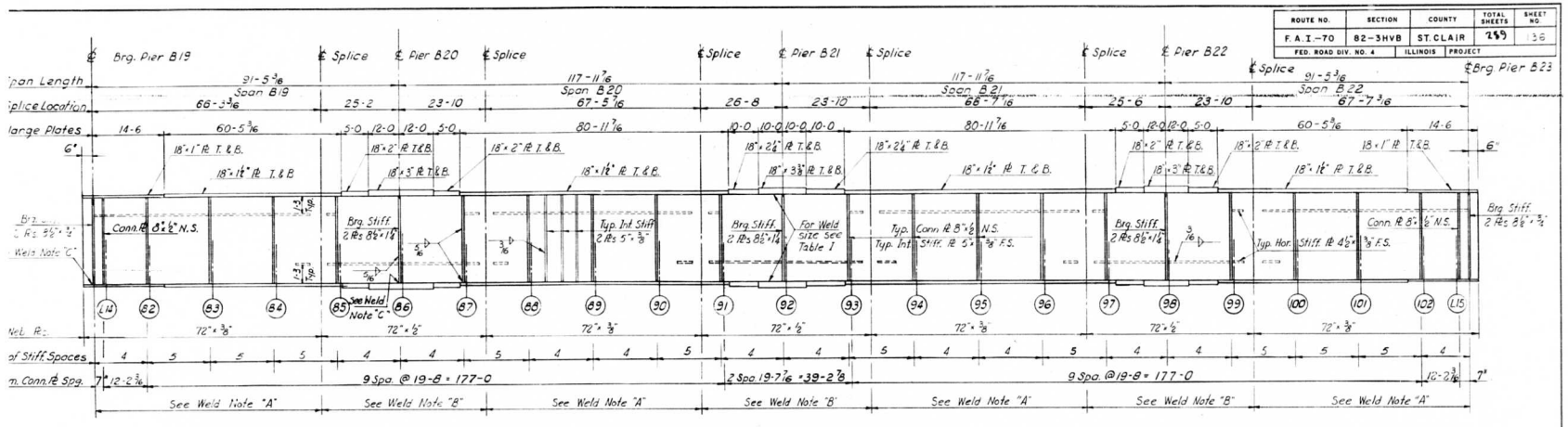
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

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

SHEET 100 or 241

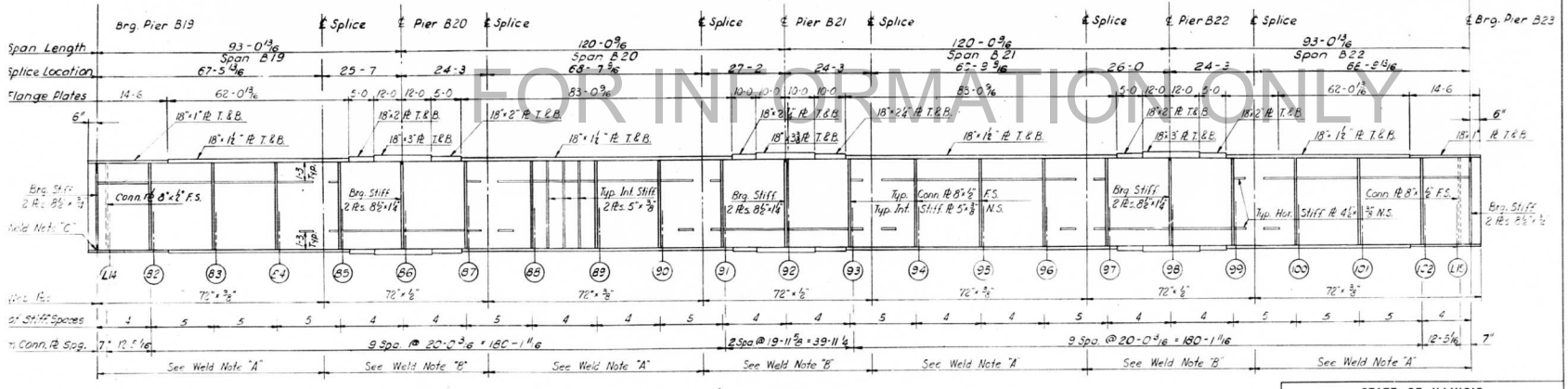
D. BY A. J. A.
CK. BY E. M.
L. BY S. V.
TO BY K. A.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	259	36
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	



GIRDER B1

Spans B19 thru B22



GIRDER B2

Spans B19 thru B22

NOTES

All Longitudinal Dimensions shown on this sheet are Arc Dimensions given along ℄ of Web.
Radius to ℄ Web - Girder B1 = 1799'-0".
Radius to ℄ Web - Girder B2 = 1831'-0".
For Weld Notes "A" - "B" & "C" see Sh. No. 96
For Typ. Girder Details see Sh. No. 96
All Bearing Stiffeners and Conn. Pls to be vert.

A. J. A.
I. M.
S. V.
K. A.

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

GIRDERS B1 AND B2

SPANS B19 THRU B22

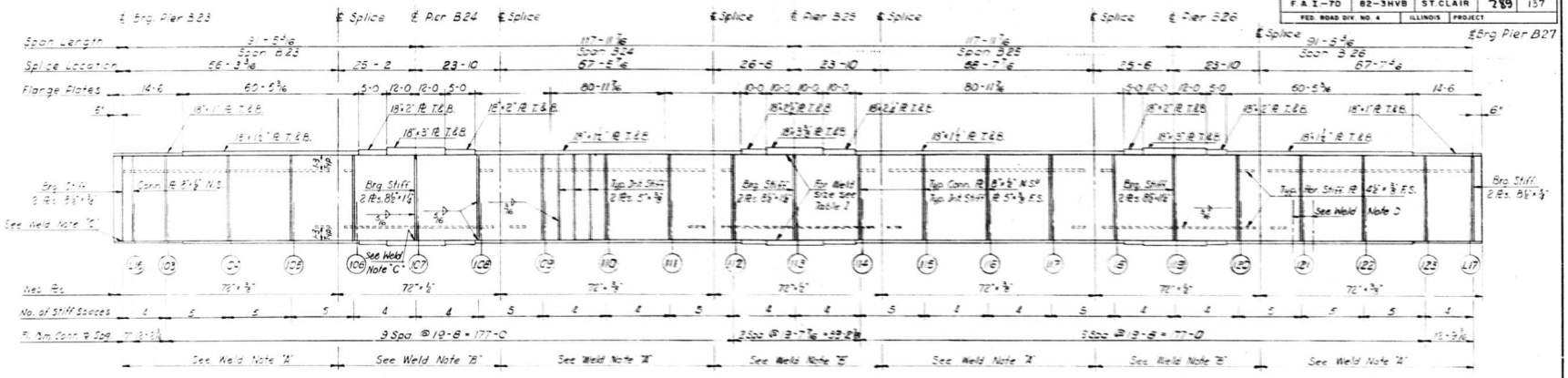
POPLAR STREET BRIDGE APPROACHES
ROADWAY "B"

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

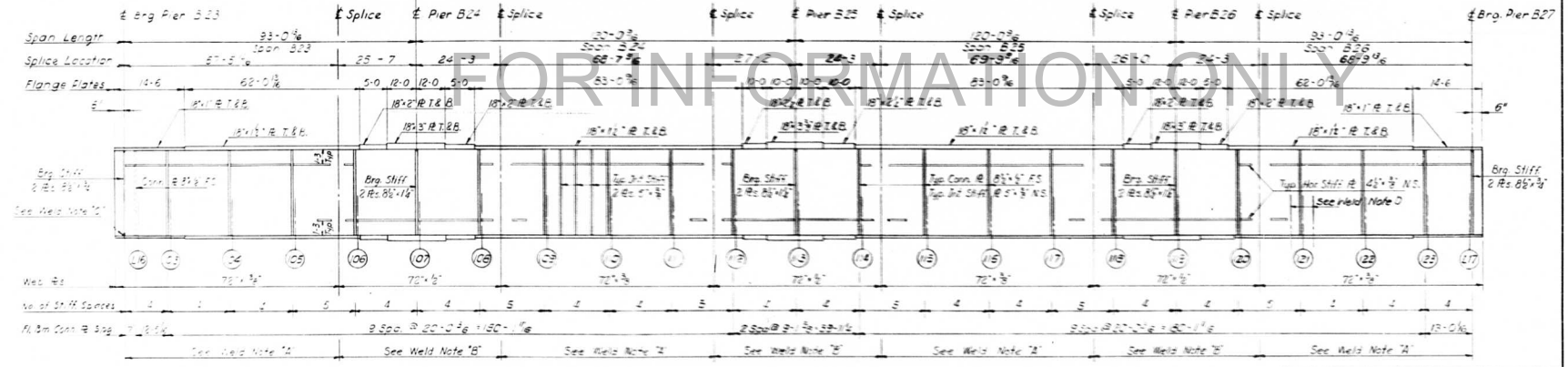
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 101 of 224

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I-70	82-3HVB	ST. CLAIR	789	137
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	



GIRDER B1
Spans B23 thru B26



GIRDER B2
Spans B23 thru B26

NOTES

All Longitudinal Dimensions shown on this sheet are Arc Dimensions given along ℄ of Web.
Radius to ℄ Web - Girder B1 = 799'-0".
Radius to ℄ Web - Girder B2 = 653'-10".
For Weld Notes "A" "B" "C" & "D" See Sh No. 96
For Typ. Girder Details see Sh. No. 96
All Bearing Stiffeners and Conn Pls to be vert.

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

GIRDERS B1 AND B2
SPANS B23 THRU B26

POPLAR STREET BRIDGE APPROACHES
ROADWAY "B"

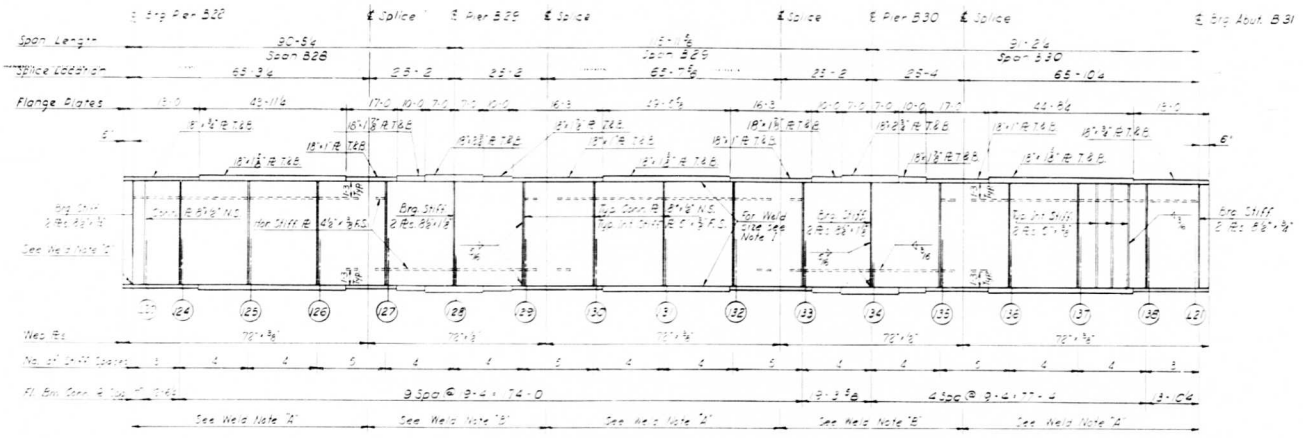
F.A.I RT 70 ST. CLAIR CO. SECTION 82-3HVB

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

SHEET 102 of 241

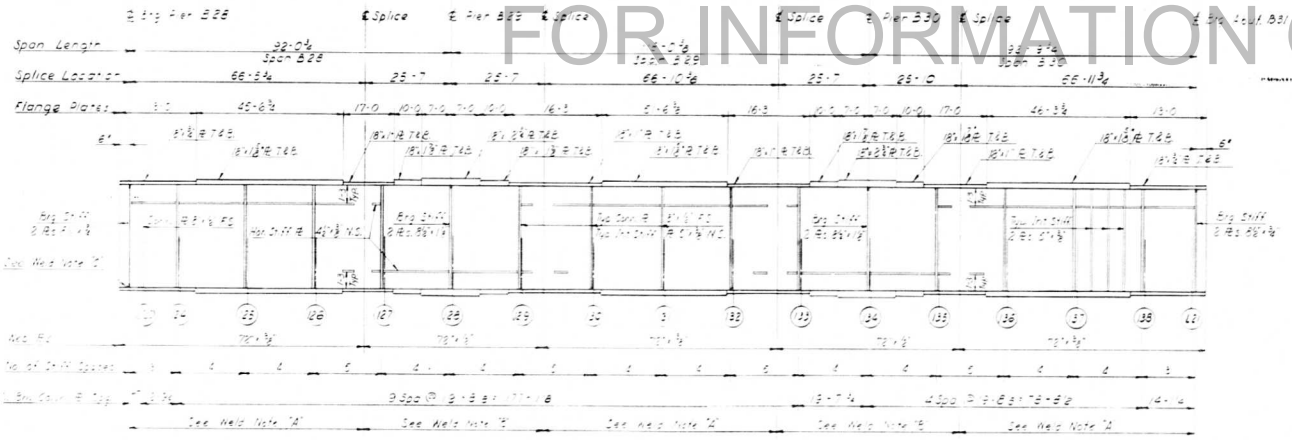
DES. BY A. W. A.
CK'D BY J. M.
CHKD BY S. Y.
APPVD BY H. A.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I—70	82—3HVB	ST. CLAIR	249	138
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



GIRDER B1

Spans B28 thru B30



GIRDER B2

Spans B28 thru B30

NOTES

All Longitudinal Dimensions shown on this sheet are Hz. Dimensions given along ℄ of Web.
Radius to ℄ Web Girder B1 = 1799'-0".
Radius to ℄ Web Girder B2 = 1831'-0".
For Weld Notes "A" - "E" & "C" see Sh. No. 96
For Typ. Girder Details see Sh. No. 96
All Bearing Stiffeners and Conn. Pls to be Vertical.

BY A.J.A
BY I.M.
BY S.V.
BY K.A.

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

GIRDERS B1 AND B2

SPANS B28 THRU B30

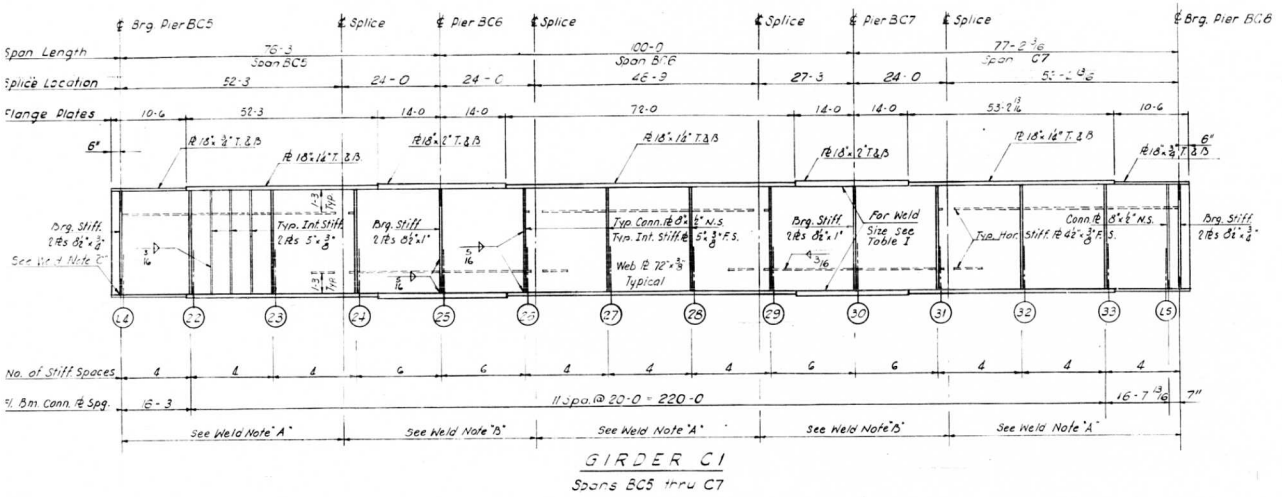
POPLAR STREET BRIDGE APPROACHES
ROADWAY "B"

F.A.I. RT 70 ST. CLAIR CO. SECTION 82—3HVB

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

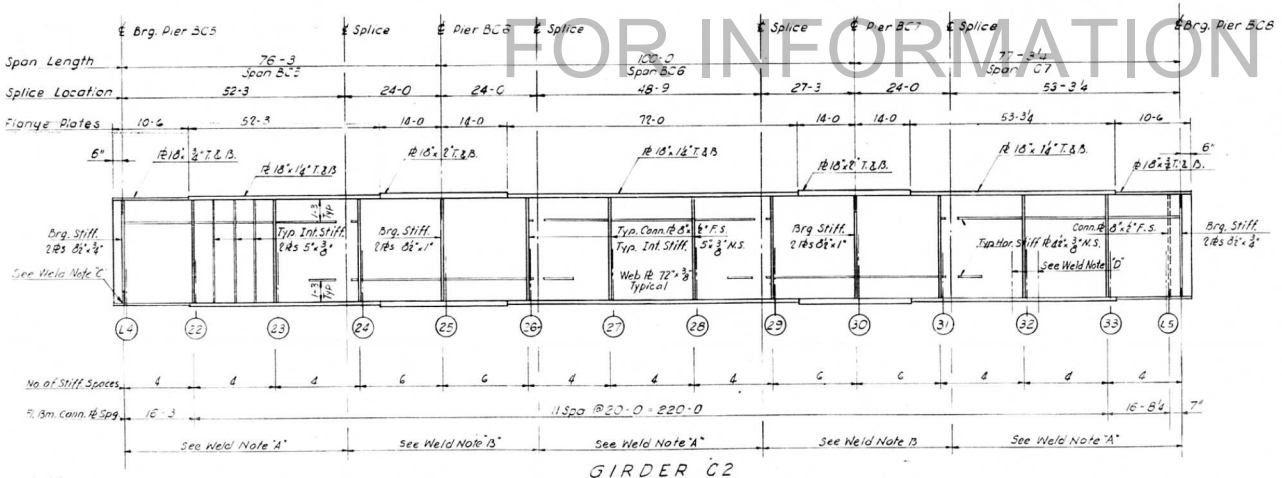
SHEET 103 OF 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	259	139
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



GIRDER C1

Spans BC5 thru C7



GIRDER C2

Spans BC5 thru C7

NOTES

All Longitudinal Dimensions shown on this sheet are Arc Dimensions given along ℄ of Web.

For Weld Notes "A" "B" "C" & "D" see Sht No. 96

For Typ. Girder Details see Sht. No. 96

All Bearing Stiffeners and Conn Pls to be vertical.

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

GIRDERS C1 AND C2
SPANS BC5 THRU BC7

POPLAR STREET BRIDGE APPROACHES
ROADWAY "C"

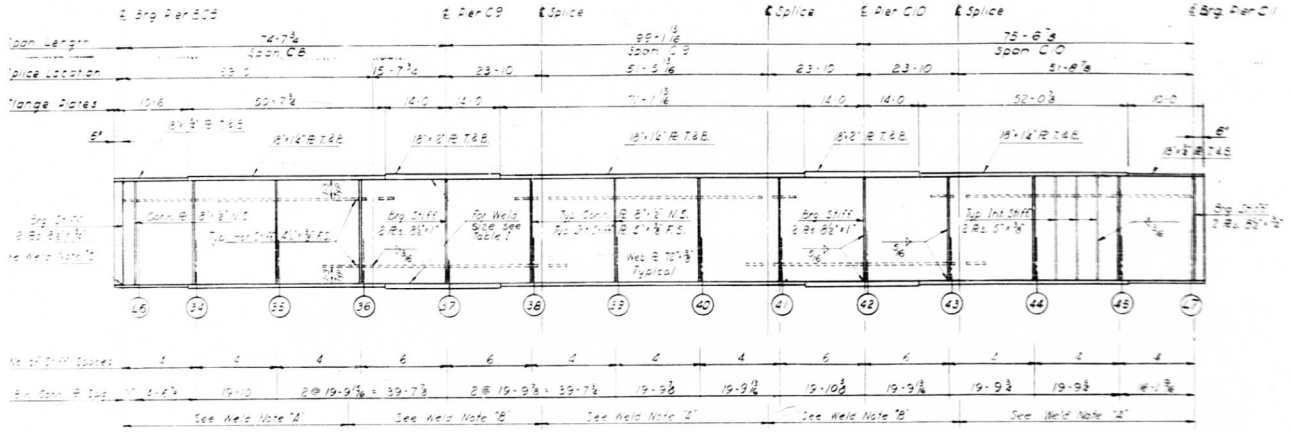
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

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

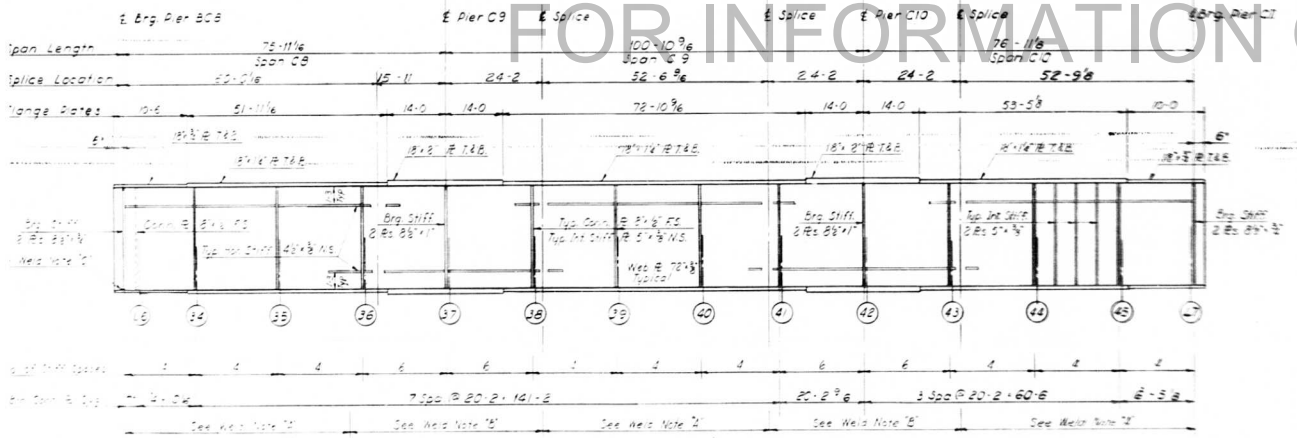
SHEET 104 OF 141

A. J. A.
I. M.
S. V.
K. A.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82-3HVB	ST. CLAIR	259	140
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



GIRDER C1
Spans C8 thru C10



GIRDER C2
Spans C8 thru C10

NOTES

All Longitudinal Dimensions shown on this sheet are Dimensions given along ℄ of Web.
For Weld Notes "A" & "B" See Sh. No 96
For Typ. Girder Details see Sh. No 96
All Bearing Stiffeners and Conn. PLs to be Mill Fitted.
Radius to ℄ web - Girder C1 = 608'-8 1/2"
Radius to ℄ web - Girder C2 = 683'-0"

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

GIRDERS C1 AND C2
SPANS C8 THRU C10

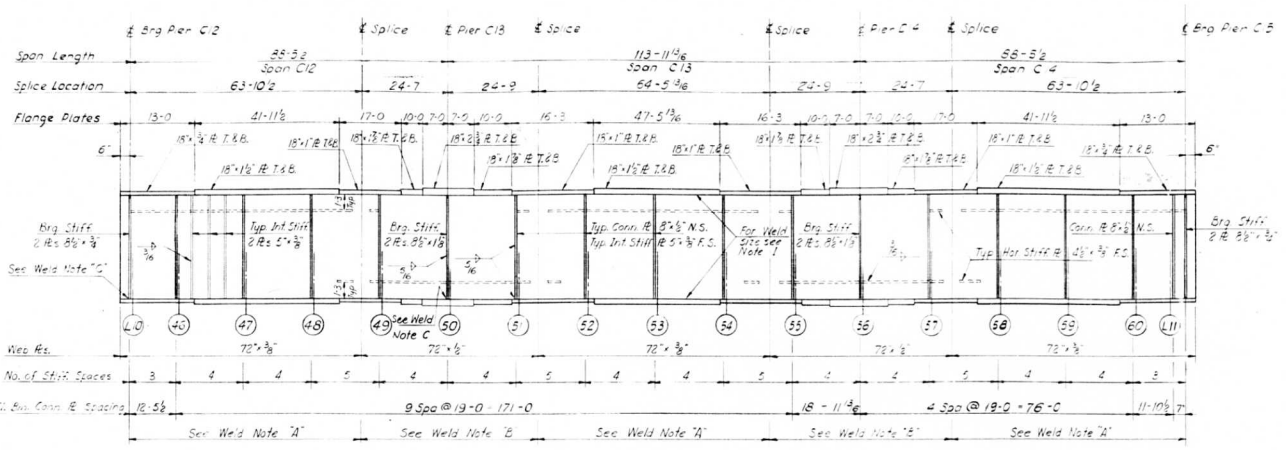
POPLAR STREET BRIDGE APPROACHES
ROADWAY "C"

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

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

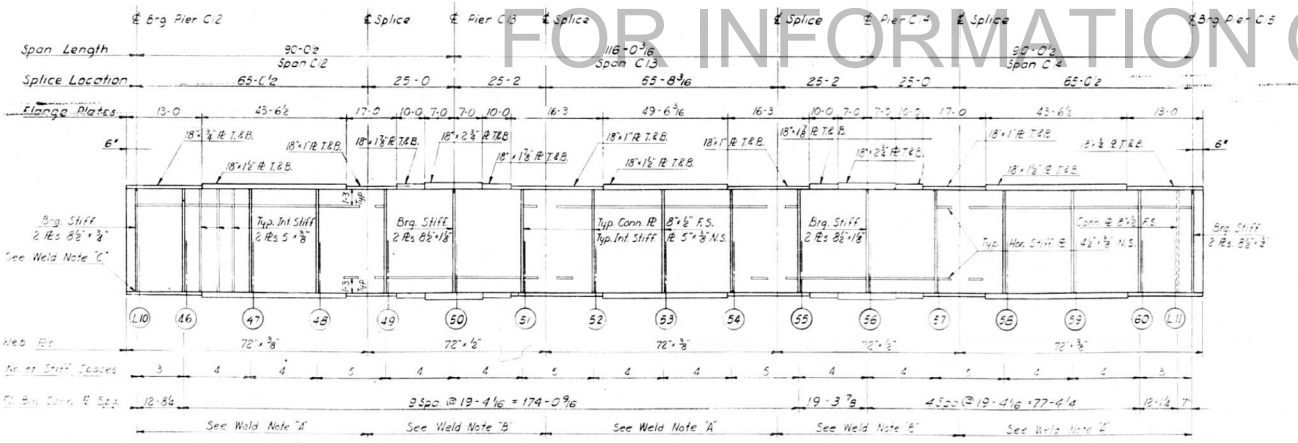
SHEET 105 of 214

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F A I—70	82-3HVB	ST. CLAIR	280	141
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	



GIRDER C1

Spans C12 thru C14



GIRDER C2

Spans C12 thru C14

NOTES

All long tuning dimensions shown on this sheet are the dimensions given along ℄ of Web.
Radius to ℄ Web Girder C1 = 1799'-0"
Radius to ℄ Web Girder C2 = 1831'-0"
For Weld Notes "A" thru "C" see Sh. No. 96
For Typ. Girder Details see Sh. No. 96
Bearing Stiffeners and Conn. Pls to be vertical.

ED BY A. J. A.
BY I. M.
D BY S. V.
ED BY K. A.

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

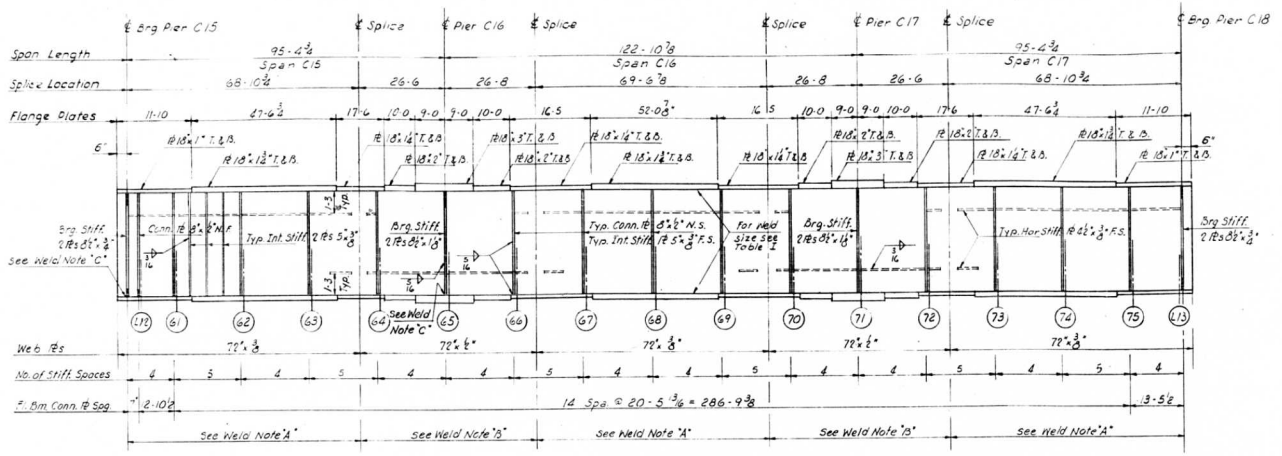
GIRDERS C1 AND C2
SPANS C12 THRU C14
POPLAR STREET BRIDGE APPROACHES
ROADWAY "C"

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

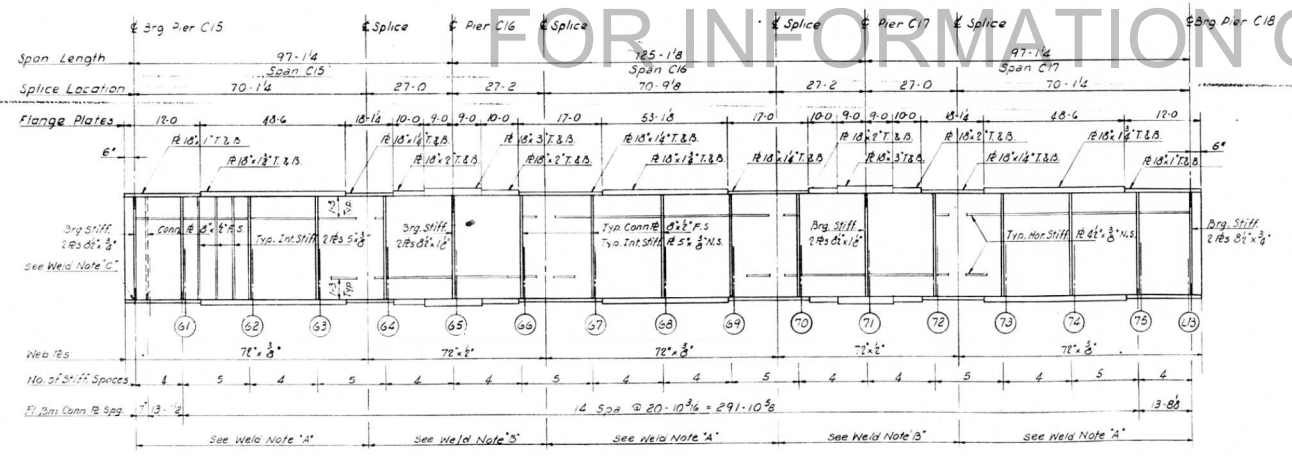
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 106 of 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I-70	82-3HVB	ST CLAIR	289	142
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



GIRDER C1
Spans C15 thru C17



GIRDER C2
Spans C15 thru C17

NOTES

All Longitudinal Dimensions shown on this sheet are Arc Dimensions given along ℄ of Web.
Radius to ℄ Web Girder C1 = 1799'-0".
Radius to ℄ Web Girder C2 = 1831'-0".
For Weld Notes "A", "B" & "C" See Sht. No. 96
For Typ. Girder Details See Sht. No. 96
All Bearing Stiffeners and Conn. Pls to be vertical.

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

GIRDERS C1 AND C2
SPANS C15 THRU C17
POPLAR STREET BRIDGE APPROACHES
ROADWAY "C"

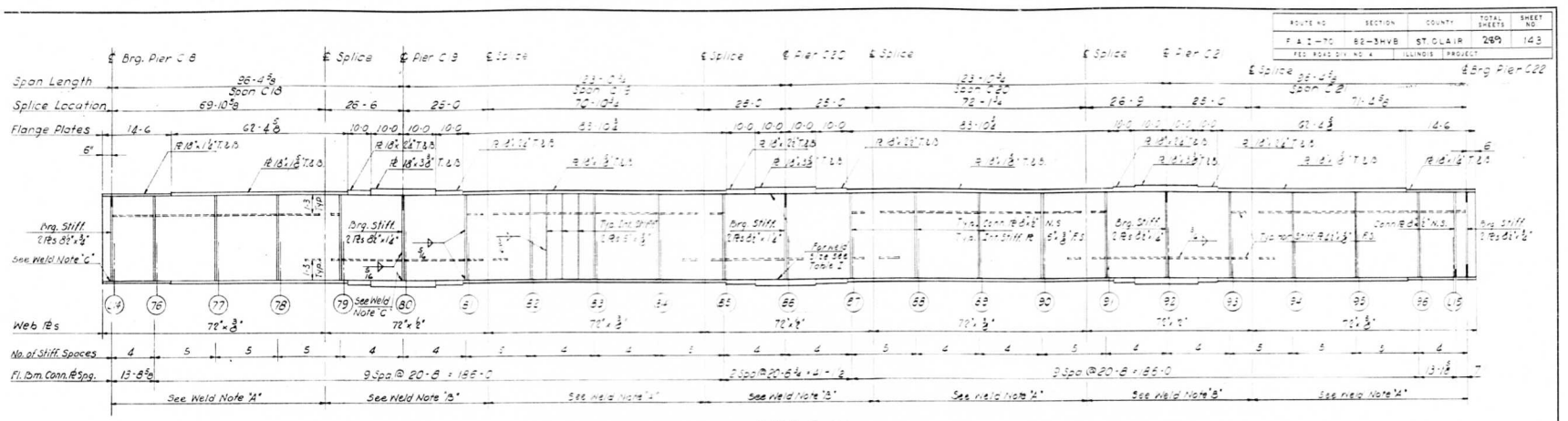
F.A.I RT 70 ST. CLAIR CO. SECTION 82-3HVB

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

SHEET 107 OF 241

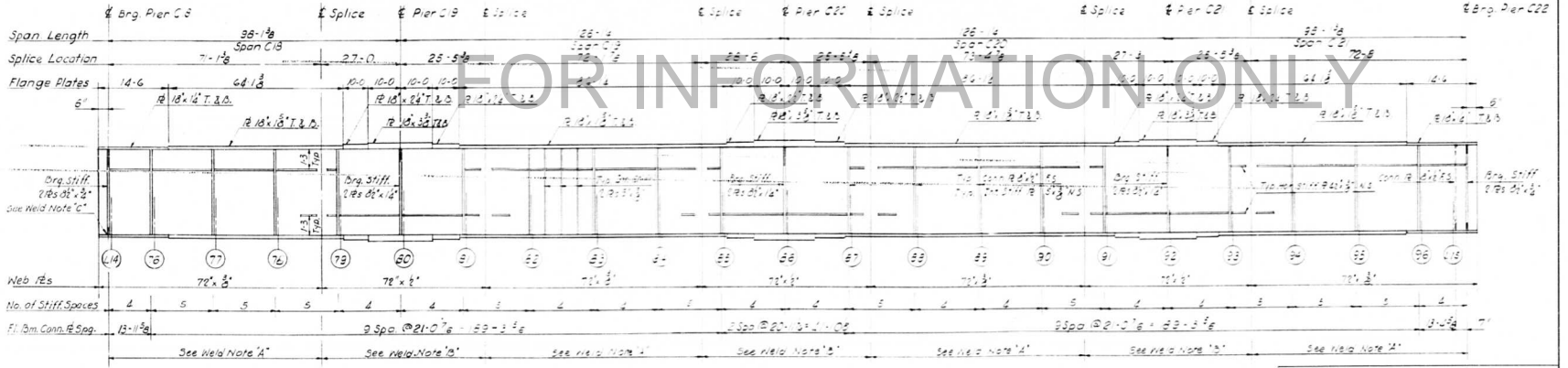
SIGNED BY A. J. A.
DWN BY I. M.
CKED BY S. V.
APPROVED BY K. A.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82-3HVB	ST. CLAIR	249	143
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	



GIRDER C1

Spans C18 thru C21



GIRDER C2

Spans C18 thru C21

NOTES

1. Longitudinal Dimensions shown on this sheet are Arc Dimensions given along ℄ of Web.
   Radius to ℄ Web Girder C1 = 1199'-0"
   Radius to ℄ Web Girder C2 = 1211'-0"
2. For Weld Notes "A" "B" & "C" see Sht. No. 96
3. For Typ. Girder Details see Sht. No. 95
4. All Bearing Stiffeners and Conn. Pls to be Vert.

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

GIRDERS C1 AND C2

SPANS C18 THRU C21

POPLAR STREET BRIDGE APPROACHES
ROADWAY "C"

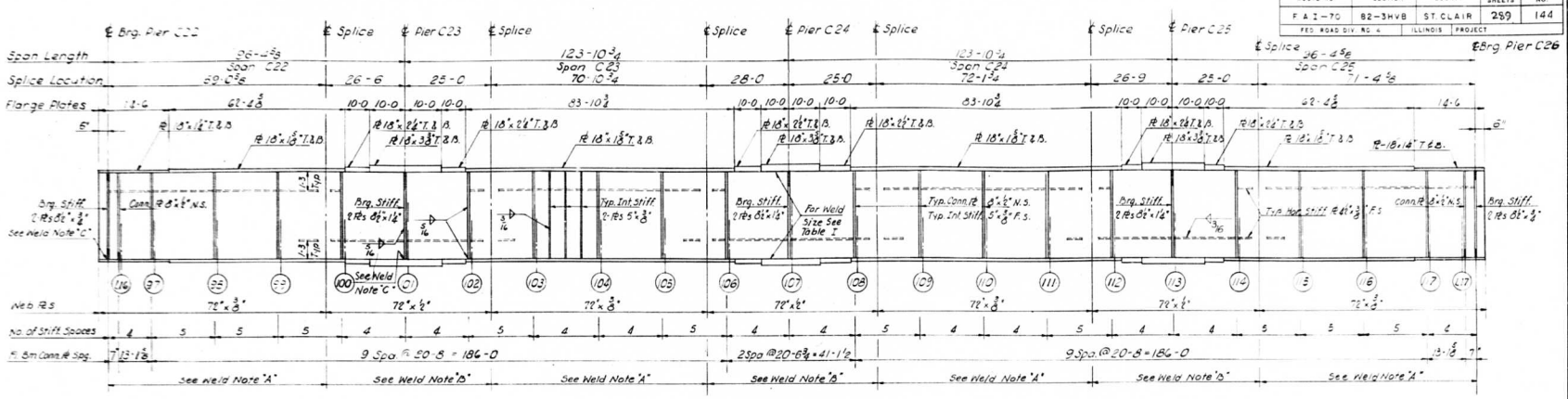
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

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

SHEET 108 OF 241

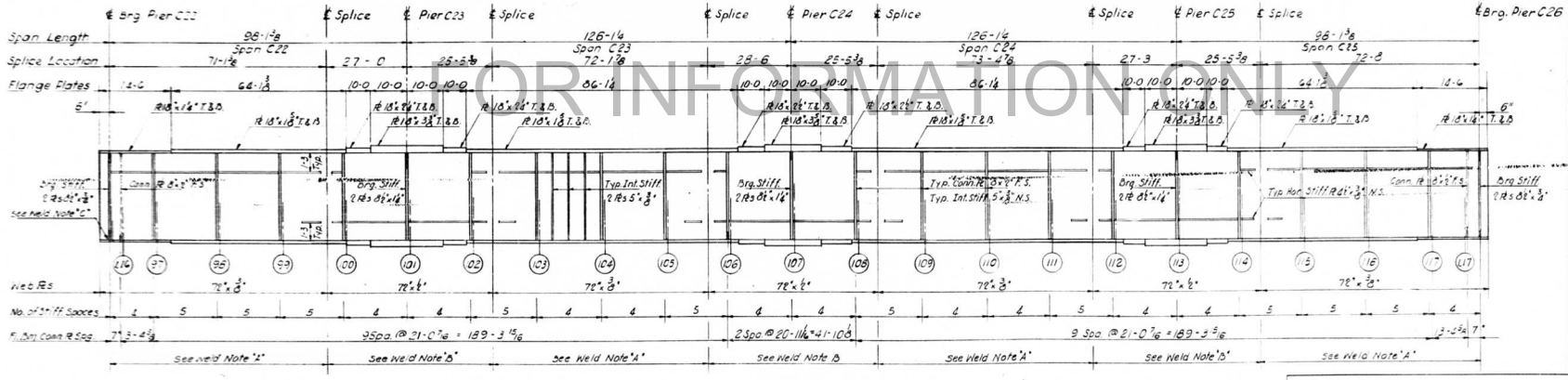
A. J. A.
I. M.
S. V.
K. A.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	144
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	



GIRDER C1

Spans C22 thru C25



GIRDER C2

Spans C22 thru C25

NOTES

All Longitudinal Dimensions shown on this sheet are Arc Dimensions given along ℄ of Web.
Radius to ℄ Web - Girder C1 = 1799'-0".
Radius to ℄ Web - Girder C2 = 1831'-0".
For Weld Notes "A" "B" & "C" see Sht. No. 96
For Typ. Girder Details see Sht. No. 96
All Bearing Stiffeners and Conn. ∠s to be ver

DESIGNED BY A. V. A
DRAWN BY J. M.
CHECKED BY S. V.
APPROVED BY K. A

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

GIRDERS C1 AND C2
SPANS C22 THRU C25

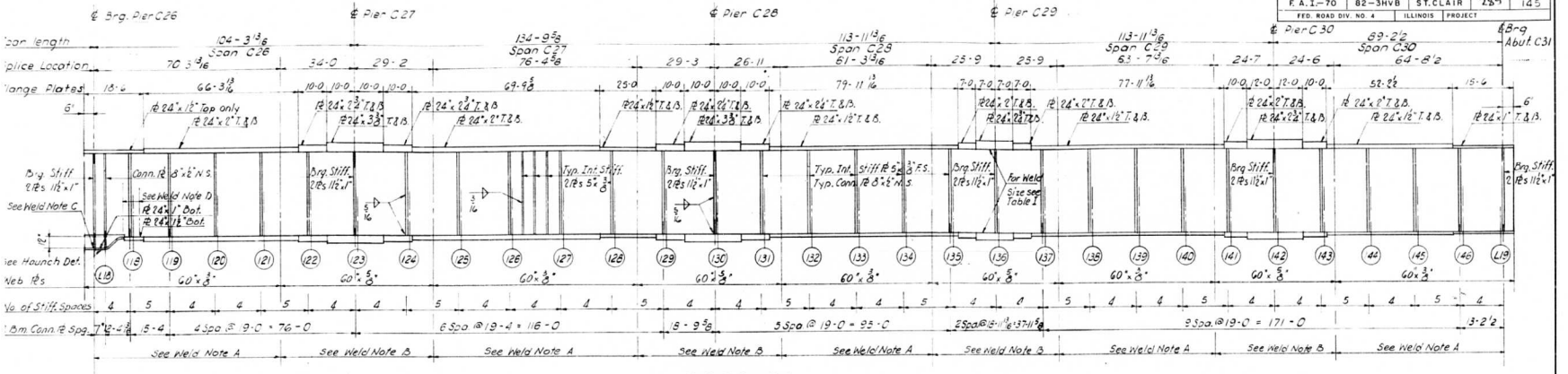
POPLAR STREET BRIDGE APPROACHES
ROADWAY "C"

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

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

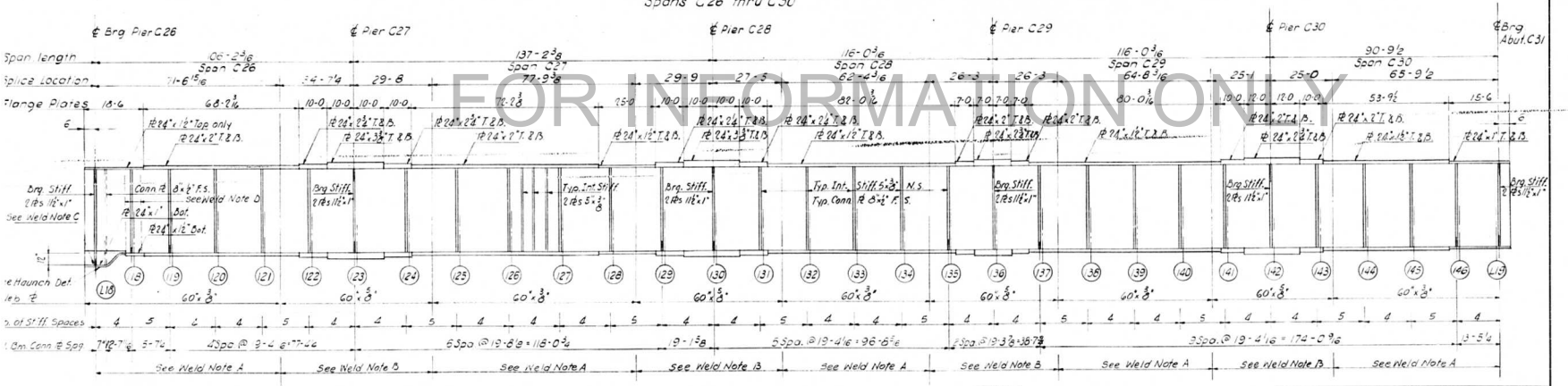
SHEET 109 OF 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I.–70	82–3HVB	ST. CLAIR	259	145
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



GIRDER C1

Spans C26 thru C30



GIRDER C2

Spans C26 thru C30

NOTES

All Longitudinal Dimensions shown on this sheet are Arc Dimensions given along ℄ of Web.
Radius to ℄ Web-Girder C1 = 799'-0"
Radius to ℄ Web-Girder C2 = 1831'-0"
For Weld Notes A-B-C & D see Sh. No. 96
For Typ. Girder Details see Sh. No. 96
All Bearing Stiffeners and Conn. Pls to be vertical.
For Haunch Detail see Sht. No. 85

DESIGNED BY A. J. A.
DRAWN BY I. M.
CHECKED BY S. V.
APPROVED BY K. A.

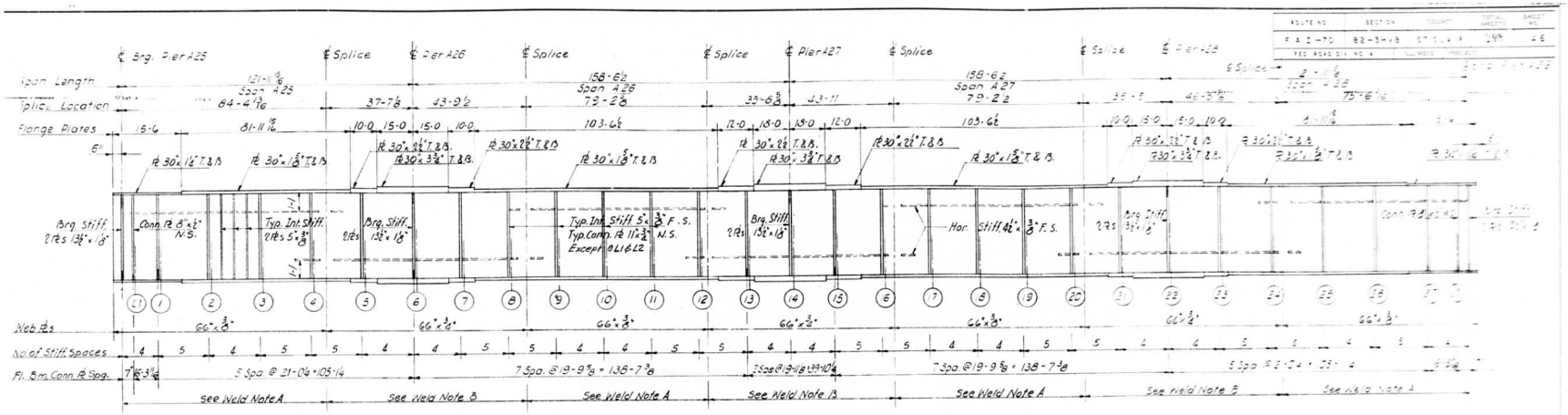
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS

GIRDERS C1 AND C2
SPANS C26 THRU C30
POPLAR STREET BRIDGE APPROACHES
ROADWAY "C"

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

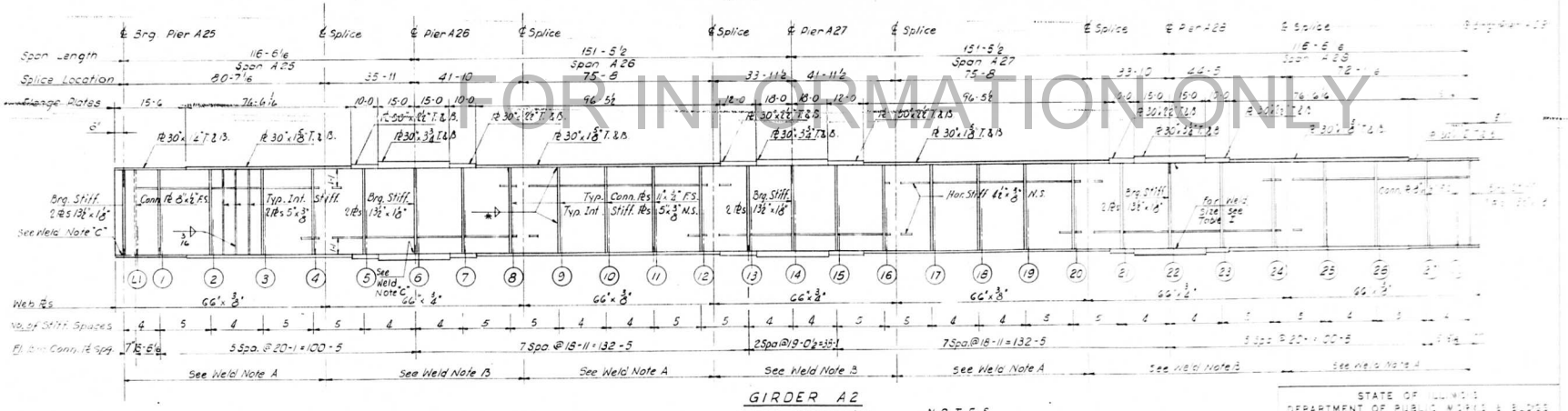
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 110 of 241



GIRDER A1

Spans A25 thru A28



GIRDER A2

Spans A25 thru A28

*Note

½" Welds for 11"x½" Connection Pls

NOTES

All Longitudinal Dimensions shown on this sheet are Arc Dimensions given along ℄ of Web.
Radius to ℄ Web Girder A1 = 716.0'.
Radius to ℄ Web Girder A2 = 684.0'.
for Weld Notes "A" "B" & "C" see Sh. No. 96
For Typ. Girder Details see Sh. No. 96
All Bearing Stiffeners and Conn Pls to be vertical

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

GIRDERS A1 AND A2
SPANS A25 THRU A28
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

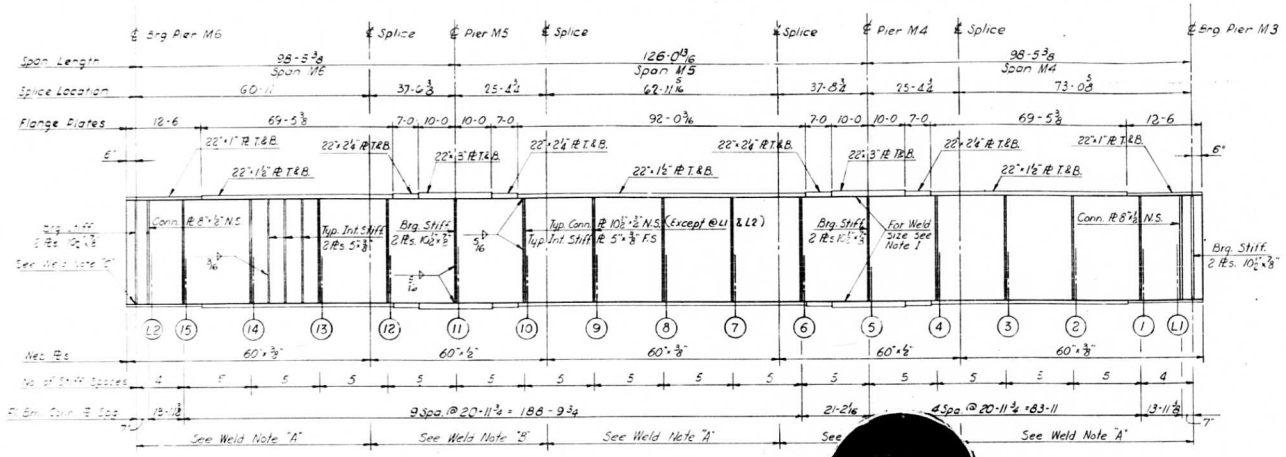
F.A.I. RT. 70 | ST. CLAIR CO. | SECTION 82-3+WB

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

SHEET NO.

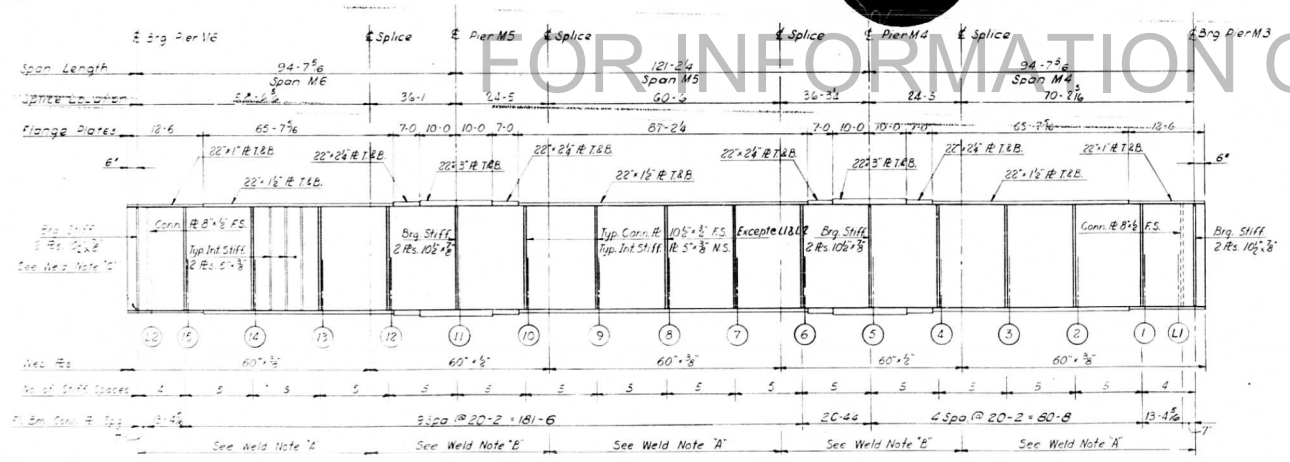
A.J.A
I.M.
S.V.
K.A

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I.-70	82-3HVB	ST. CLAIR	259	147
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



GIRDER M1

Spans M4 thru M6



GIRDER M2

Spans M4 thru M6

NOTES

All Longitudinal Dimensions shown on this sheet are Arc Dimensions given along ℄ of Web.
Radius to ℄ Web Girder M1 = 620'-0"
Radius to ℄ Web Girder M2 = 596'-0"
For Weld Notes "A" "B" & "C" see Sh. No. 96
For Typ. Girder Details see Sh. No. 96
All Bearing Stiffeners and Conn Pls to be vertical.

DESIGNED BY A. J. A.
DRAWN BY I M
CHECKED BY S. A.
APPROVED BY F. A.

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

GIRDERS M1 AND M2
SPANS M4 THRU M6

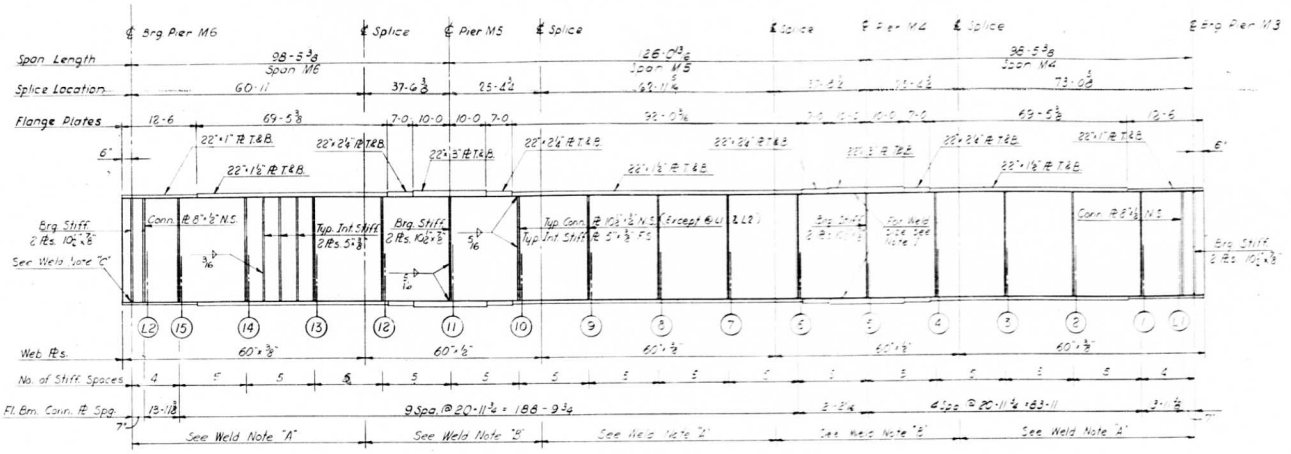
POPLAR STREET BRIDGE APPROACHES
RAMP "M"

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

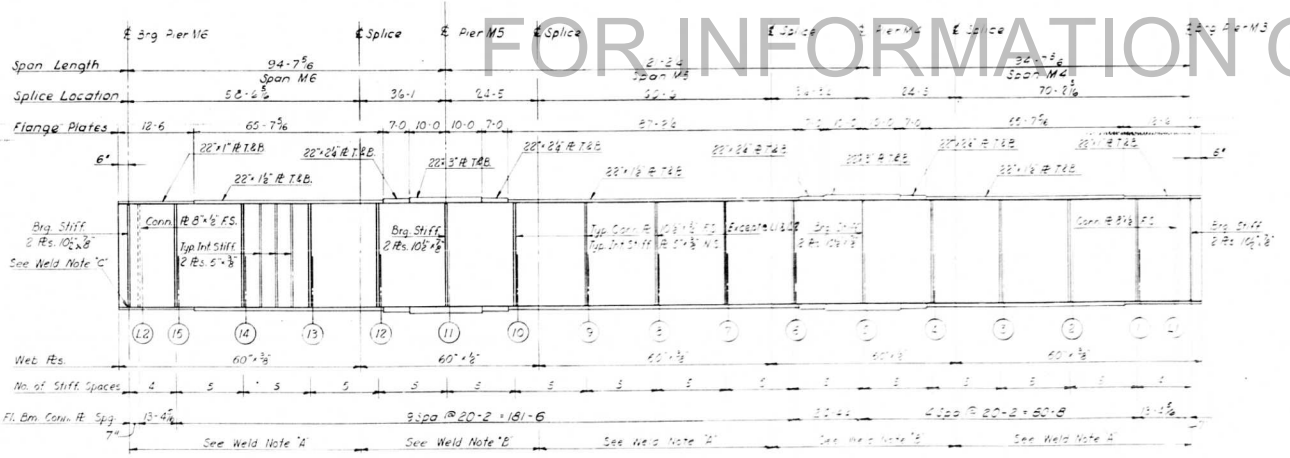
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 112 OF 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I.-70	82-3HVB	ST. CLAIR	289	147
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	



GIRDER M1
Spans M4 thru M6



GIRDER M2
Spans M4 thru M6

NOTES

All Longitudinal Dimensions shown on this sheet are Arc Dimensions given along ℄ of Web.
Radius to ℄ Web-Girder M1 = 620'-0"
Radius to ℄ Web-Girder M2 = 596'-0"
For Weld Notes "A" "B" & "C" see Sh. No. 96
For Typ. Girder Details see Sh. No. 96
All Bearing Stiffeners and Conn Pls to be vertical.

SIGNED BY	A. J. A.
DRAWN BY	I. M.
CHECKED BY	S. V.
APPROVED BY	K. A.

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

GIRDERS M1 AND M2
SPANS M4 THRU M6

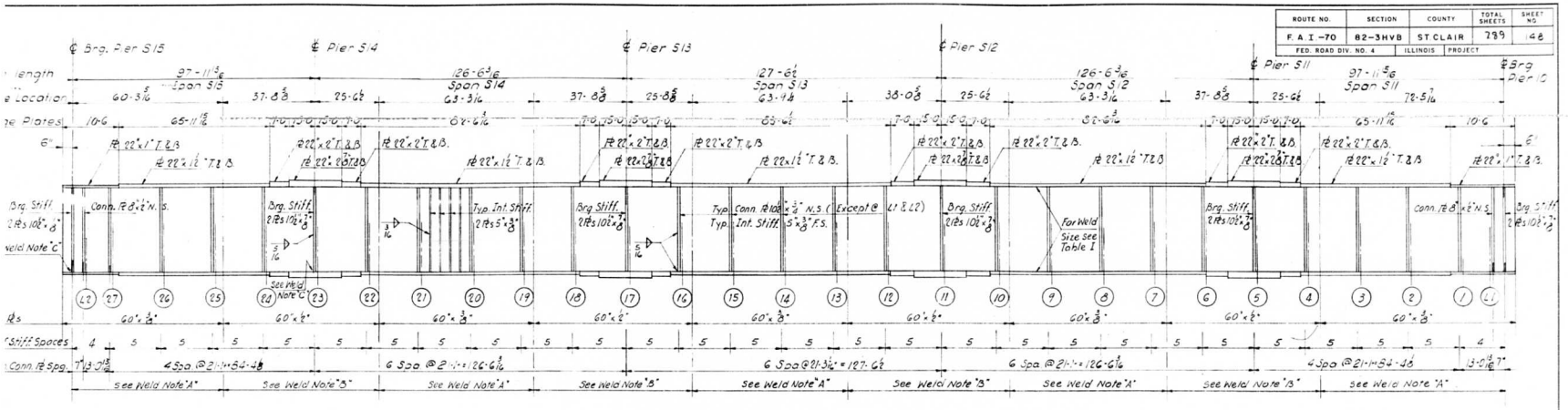
POPLAR STREET BRIDGE APPROACHES
RAMP "M"

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

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

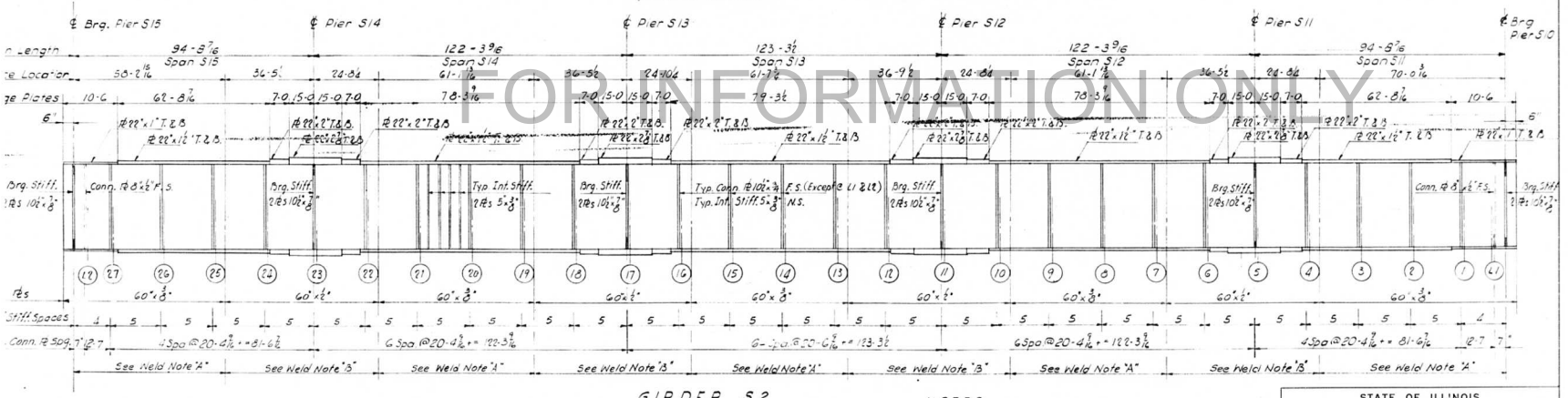
SHEET 112 OF 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F. A. I -70	82-3HVB	ST. CLAIR	789	48
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



GIRDER S1

Spans S11 thru S15



GIRDER S2

Spans S11 thru S15

NOTES

All Longitudinal Dimensions shown on this sheet are Arc Dimensions given along ℄ of Web.
Radius to ℄ Web - Girder S1 = 720'-0"
Radius to ℄ Web - Girder S2 = 698'-0"
For Weld Notes A - B & C See Sht. No. 96
For Typ. Girder Details see Sht. No. 96
All Bearing Stiffeners and Conn. ℞s to be vertical.

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

GIRDERS S1 AND S2
SPANS S11 THRU S15

POPLAR STREET BRIDGE APPROACHES
RAMP "S"

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

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

SHEET 113 OF 241

D BY A. J. A
IY I. M.
BY S. V.
D BY K. A.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I – 70	82–3HVB	ST. CLAIR	289	149
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

ELEVATION TOP OF GIRDER WEB FOR FABRICATION (DEFLECTION NOT INCLUDED)

Girder	℄ Brg. Pier B4	SP1	℄ Pier B5	SP2	SP3	℄ Pier B6	SP4	SP5	℄ Pier B7	SP6	℄ N. Brg. Pier B8	℄ E. Brg. Pier B8	℄ E. Brg. Pier B9	SP1	℄ Pier B9	SP2	SP3	℄ Pier B10	SP4	℄ N. Brg. Pier B11	W. BM No.	Loc.	℄ E. Brg. Pier B11	℄ W. Brg. Pier B12
B	452.15	449.49	448.81	448.23	447.64	446.99	446.62	446.61	446.46	446.41	446.34	446.85	446.57	446.45	446.45	446.32	446.06	445.93	445.83	445.54	445.54	445.82	445.95	446.08	446.36	446.49	446.62	446.90	B1	*447.02	*447.43
C	450.84	449.55	448.94	447.78	446.87	446.32	446.21	446.05	445.99	445.94	446.37	446.36	446.18	446.08	446.08	446.07	445.95	445.77	446.06	446.06	448.06	448.36	448.49	448.62	448.91	449.04	449.17	449.46	B5	*449.84	*450.05

Girder	℄ E. Brg. Pier B13	SP1	℄ Pier B14	SP2	SP3	℄ Pier B15	SP4	℄ N. Brg. Pier B16	℄ E. Brg. Pier B16	SP1	℄ Pier B16	SP2	SP3	℄ Pier B17	SP4	SP5	℄ Pier B18	SP6	℄ N. Brg. Pier B19	℄ E. Brg. Pier B19	SP1	℄ Pier B20	SP2	SP3	℄ Pier B21	SP4	SP5	℄ Pier B22	SP6	℄ N. Brg. Pier B23
B	449.73	449.08	448.41	447.83	447.24	446.59	446.22	446.21	446.05	445.99	446.42	446.41	446.23	446.13	446.13	446.01	445.89	445.77	446.06	446.06	448.06	448.36	448.49	448.62	448.91	449.04	449.17	449.46	B5	*449.84	*450.05
C	449.23	447.94	447.31	446.73	446.16	445.49	445.12	445.11	444.95	444.89	445.32	445.31	445.13	445.03	445.03	444.91	444.79	444.67	444.96	444.96	446.96	447.26	447.39	447.52	447.81	447.94	448.07	448.36	C1	*448.74	*448.95

Girder	℄ E. Brg. Pier B24	SP1	℄ Pier B24	SP2	SP3	℄ Pier B25	SP4	SP5	℄ Pier B26	SP6	℄ N. Brg. Pier B27	Loc. Girder No.	℄ E. Brg. Pier B27	℄ N. Brg. Pier B28	Loc. Girder No.	℄ E. Brg. Pier B28	SP1	℄ Pier B29	SP2	SP3	℄ Pier B30	SP4	℄ Brg. Abut. B31
B	450.55	450.40	450.01	449.60	449.38	449.19	448.98	448.97	448.77	448.71	447.07	B1	447.13	446.98	B1	446.52	446.58	446.32	446.29	446.05	445.92	445.47	445.12	444.77	443.81
C	450.4	450.25	449.87	449.73	449.56	449.34	449.14	449.01	448.93	448.86	448.63	B5	448.63	448.48	B5	448.08	447.94	447.70	447.66	447.41	447.29	446.84	446.49	446.17	445.21

ROADWAY 'B'

Girder	℄ E. Brg. Pier B27	SP1	℄ Pier B28	SP2	SP3	℄ Pier B29	SP4	SP5	℄ Pier B30	SP6	℄ N. Brg. Pier B31	℄ E. Brg. Pier B31	SP1	℄ Pier C1	SP2	SP3	℄ Pier C2	SP4	℄ N. Brg. Pier C3	℄ E. Brg. Pier C3	SP1	℄ Pier C4	SP2	SP3	℄ Pier C5	SP4	SP5	℄ Pier C6	SP6	℄ N. Brg. Pier C7
B	451.55	451.40	450.99	450.58	450.19	449.98	449.77	449.76	449.56	449.50	449.34	449.34	449.18	449.03	448.98	448.83	448.68	448.63	448.48	448.48	448.32	448.17	448.02	447.87	447.72	447.57	447.42	447.27	447.12	446.97
C	451.15	449.85	449.47	449.08	448.69	448.48	448.27	448.26	448.06	448.00	447.84	447.84	447.68	447.53	447.48	447.33	447.18	447.13	446.98	446.98	446.82	446.67	446.52	446.37	446.22	446.07	445.92	445.77	445.62	445.47

Girder	℄ E. Brg. Pier C7	SP1	℄ Pier C8	SP2	SP3	℄ Pier C9	SP4	℄ N. Brg. Pier C10	℄ E. Brg. Pier C10	SP1	℄ Pier C11	SP2	SP3	℄ Pier C12	SP4	SP5	℄ Pier C13	SP6	℄ N. Brg. Pier C14	℄ E. Brg. Pier C14	SP1	℄ Pier C15	SP2	SP3	℄ Pier C16	SP4	SP5	℄ Pier C17	SP6	℄ N. Brg. Pier C18
B	451.55	451.40	450.99	450.58	450.19	449.98	449.77	449.76	449.56	449.50	449.34	449.34	449.18	449.03	448.98	448.83	448.68	448.63	448.48	448.48	448.32	448.17	448.02	447.87	447.72	447.57	447.42	447.27	447.12	446.97
C	451.15	449.85	449.47	449.08	448.69	448.48	448.27	448.26	448.06	448.00	447.84	447.84	447.68	447.53	447.48	447.33	447.18	447.13	446.98	446.98	446.82	446.67	446.52	446.37	446.22	446.07	445.92	445.77	445.62	445.47

Girder	℄ E. Brg. Pier C19	SP1	℄ Pier C20	SP2	SP3	℄ Pier C21	SP4	SP5	℄ Pier C22	SP6	℄ N. Brg. Pier C23
B	453.09	452.94	452.79	452.64	452.49	452.34	452.19	452.04	451.89	451.74	451.59
C	452.89	452.74	452.59	452.44	452.29	452.14	451.99	451.84	451.69	451.54	451.39

Girder	℄ E. Brg. Pier C23	SP1	℄ Pier C24	SP2	SP3	℄ Pier C25	SP4	SP5	℄ Pier C26	SP6	℄ N. Brg. Pier C27	℄ E. Brg. Pier C27	SP1	℄ Pier C27	SP2	SP3	℄ Pier C28	SP4	SP5	℄ Pier C29	SP6	SP7	℄ Pier C30	SP8	℄ Brg. Abut. C31
B	451.59	451.44	451.29	451.14	450.99	450.84	450.69	450.54	450.39	450.24	450.09	450.09	449.94	449.79	449.64	449.49	449.34	449.19	449.04	448.89	448.74	448.59	448.44	448.29	448.14
C	451.39	451.24	451.09	450.94	450.79	450.64	450.49	450.34	450.19	450.04	449.89	449.89	449.74	449.59	449.44	449.29	449.14	448.99	448.84	448.69	448.54	448.39	448.24	448.09	447.94

ROADWAY 'C'

Note: *Asterisks indicates elevation to top of flange of WF.

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

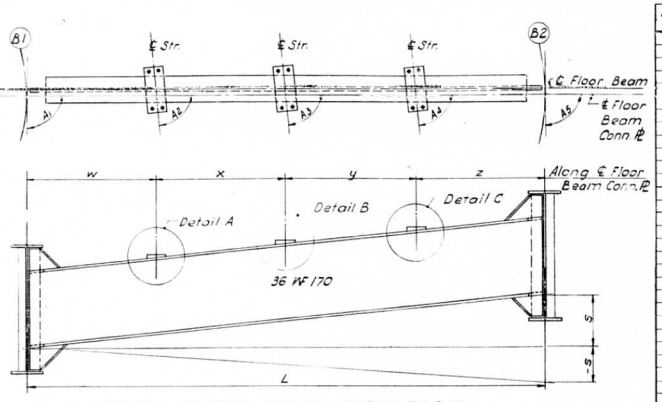
ELEVATIONS — TOP OF GIRDER WEB

POPLAR STREET BRIDGE APPROACHES
ROADWAYS "B" AND "C"

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

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

SHEET 114 of 241



TYPICAL FLOOR BEAM ELEVATION

RDWY. B

Bm. No.	L	w	x	y	z	s	A1	A2	A3	A4	A5
thru 21	30-0	7-6	7-6	7-6	7-6	-0-5 3/8	90°-00-00"	90°-00-00"	90°-00-00"	90°-00-00"	90°-00-00"
22						-0-3 7/16					
23						-0-0 7/16					
24						0-2 1/8					
25						0-5 1/16					
26						0-8 1/16					
27						0-10 3/8					
28						1-1 3/4					
29						1-4 9/16					
30	30-0	7-6	7-6	7-6	7-6	1-7 7/16		90°-00-00"	90°-00-00"	90°-00-00"	90°-00-00"
31	30-1 1/4	7-5 3/8	7-6 3/8	7-6 3/8	7-6 3/8	1-10 1/4		90°-03-11"	90°-14-41"	90°-26-05"	90°-36-36"
32	30-5 3/16	7-6 15/16	7-7 1/16	7-7 1/16	7-7 3/8	2-1 1/8		90°-41-24"	90°-52-54"	91°-04-18"	91°-14-49"
33	30-9 1/16	7-8 1/2	7-9 1/16	7-9 1/16	7-9 1/8	2-3 15/16		90°-29-07"	90°-57-16"	91°-25-09"	91°-53-02"
34	31-1 7/16	7-10 1/4	7-11	7-11	7-11 3/16	2-6 5/8		90°-12-39"	90°-14-27"	90°-16-15"	90°-04-43"
35	31-5 5/8	7-9 7/8	7-11 3/8	7-11 1/16	8-0 1/2	2-6 7/16		89°-54-17"	89°-36-31"	89°-38-43"	90°-08-54"
36	31-9 7/16	7-10 3/16	7-11 1/4	7-11 1/4	7-11 5/8	2-6 1/2		90°-32-11"	90°-34-25"	90°-36-37"	90°-08-05"
37	31-13 1/4	7-10 1/8	7-11 5/8	7-11 5/8	8-0 1/8	2-6 9/16		89°-53-50"	89°-55-37"	89°-57-23"	90°-07-16"
38	31-17 3/16	7-11 1/16	7-11 7/8	7-11 7/8	8-0	2-6 9/16		90°-31-44"	90°-33-31"	90°-35-17"	90°-06-27"
39	31-21 1/8	7-10 7/8	7-11 5/8	7-11 5/8	8-0 1/8	2-6 5/8		89°-53-38"	89°-54-44"	89°-56-04"	90°-05-38"
40	31-25 1/16	7-11 1/4	7-11 3/4	7-11 3/4	8-0 1/4	2-6 5/8		90°-31-16"	90°-32-38"	90°-33-58"	90°-04-49"
41	31-29	7-10 9/16	7-11 3/16	7-11 1/16	8-0 1/8	2-6 1/4		89°-52-59"	89°-53-53"	89°-54-46"	90°-03-59"
42	31-32 15/16	7-11 3/8	7-11 7/8	7-11 7/8	8-0 7/16	2-6 11/16		90°-30-47"	90°-31-41"	90°-32-34"	90°-03-10"
43	31-36 7/8	7-10 11/16	7-11 5/8	7-11 5/8	8-1 5/16	2-6 11/16		89°-52-56"	89°-53-49"	89°-54-42"	90°-02-20"
44	31-40 13/16	7-11 1/2	8-0	8-0	8-0 3/8	2-6 11/16		90°-30-50"	90°-31-43"	90°-32-36"	90°-01-31"
45	32-0	7-11 3/8	8-0	8-0	8-0 3/8	2-3 3/4		89°-59-37"	89°-59-36"	89°-59-36"	90°-00-42"
46		7-11 1/16	8-0	8-0	8-0 5/16			89°-49-03"	89°-49-03"	89°-49-03"	90°-00-00"
47		7-11 9/16	8-0	8-0	8-0 7/16			90°-25-41"	90°-25-41"	90°-25-41"	
48		7-10 7/16	8-0	8-0	8-1 1/16			89°-52-12"	89°-52-12"	89°-52-12"	
49	32-0	7-11 1/2	8-0	8-0	8-0 1/2	2-6 3/4	90°-00-00"	90°-28-50"	90°-28-50"	90°-28-50"	90°-00-00"
50	Same as Floor Beam 48										
51		″	48								
52		ditto	48								
53		″	49								
54		″	48								
55		″	49								
56	32-0	7-10 3/16	8-0	8-0	8-1 3/16	2-6 3/4	90°-00-00"	89°-52-10"	89°-52-10"	89°-52-10"	90°-00-00"
57	32-0	7-11 9/16	8-0	8-0	8-0 7/16	2-6 3/4	90°-00-00"	90°-28-48"	90°-28-48"	90°-28-48"	90°-00-00"
58	Same as Floor Beam 48										
59	Same as Floor Beam 49										
60	32-0	7-11 7/16	8-0	8-0	8-0 9/16	2-6 3/4	90°-00-00"	90°-03-42"	90°-03-42"	90°-03-42"	90°-00-00"
61		7-11	8-0	8-0	8-1			89°-48-32"	89°-48-32"	89°-48-32"	
62		7-11 9/16	8-0	8-0	8-0 7/16			90°-26-26"	90°-26-26"	90°-26-26"	
63		7-10 3/4	8-0	8-0	8-1 1/4			89°-52-02"	89°-52-02"	89°-52-02"	
64	32-0	7-11 1/2	8-0	8-0	8-0 1/2	2-6 3/4	90°-00-00"	90°-29-37"	90°-29-37"	90°-29-37"	90°-00-00"
65	Same as Floor Beam 63										
66	Same as Floor Beam 64										

Fl. Bm. No.	L	w	x	y	z	s	A1	A2	A3	A4	A5
67	Same as Floor Beam 63										
68		″	64								
69		ditto	63								
70		″	64								
71	32-0	7-10 3/4	8-0	8-0	8-1 1/4	2-6 3/4	90°-00-00"	89°-52-03"	89°-52-03"	89°-52-03"	90°-00-00"
72	32-0	7-11 1/2	8-0	8-0	8-0 1/2	2-6 3/4	90°-00-00"	90°-29-32"	90°-29-32"	90°-29-32"	90°-00-00"
73	Same as Floor Beam 63										
74		″	64								
75		ditto	63								
76		″	64								
77		″	63								
78		″	64								
79		″	63								
80		″	64								
81	32-0	7-11 3/8	8-0	8-0	8-0 3/8	2-6 3/4	90°-00-00"	90°-03-10"	90°-03-10"	90°-03-10"	90°-00-00"
82	Same as Floor Beam 61										
83		″	62								
84		ditto	63								
85		″	64								
86		″	63								
87		″	64								
88		″	63								
89		″	64								
90		″	63								
91		″	64								
92		″	71								
93		″	72								
94		″	63								
95		″	64								
96		″	63								
97		″	64								
98		″	63								
99		″	64								
100		″	63								
101		″	64								
102		″	81								
103		″	61								
104		″	62								
105		″	63								
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112		″	64								
113		″	71								
114		″	72								
115		″	63								
116		″	64								
117		″	63								
118		″	64								
119		″	63								
120		″	64								
121		″	63								
122		″	64								
123	32-0	7-11 7/16	8-0	8-0	8-0 1/16	2-6 3/4	90°-00-00"	90°-02-37"	90°-02-37"	90°-02-37"	90°-00-00"
124		7-11	8-0	8-0	8-1		90°-00-00"	89°-49-35"	89°-49-35"	89°-49-35"	90°-00-00"
125		7-11 7/16	8-0	8-0	8-0 7/16			90°-26-32"	90°-26-32"	90°-26-32"	
126		7-10 9/16	8-0	8-0	8-1 3/16			89°-52-12"	89°-52-12"	89°-52-12"	
127	32-0	7-11 1/2	8-0	8-0	8-0 1/2	2-6 3/4	90°-00-00"	90°-29-08"	90°-29-08"	90°-29-08"	90°-00-00"
128	Same as Floor Beam 126										
129		″	127								
130		ditto	126								
131		″	127								
132		″	126								
133		″	127								
134	32-0	7-10 3/16	8-0	8-0	8-1 3/16	2-6 3/4	90°-00-00"	89°-52-11"	89°-52-11"	89°-52-11"	90°-00-00"
135	32-0	7-11 1/2	8-0	8-0	8-0 1/2	2-6 3/4	90°-00-00"	90°-29-07"	90°-29-07"	90°-29-07"	90°-00-00"
136	Same as Floor Beam 126										
137	Same as Floor Beam 127										
138	32-0	7-11 9/16	8-0	8-0	8-0 1/16	2-6 3/4	90°-00-00"	90°-01-20"	90°-01-20"	90°-01-20"	90°-00-00"

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F A I — 70	82-3HVB	ST CLAIR	289	130
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

For Detail A, B and C see Sh No. 33

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

FLOOR BEAM SCHEDULE

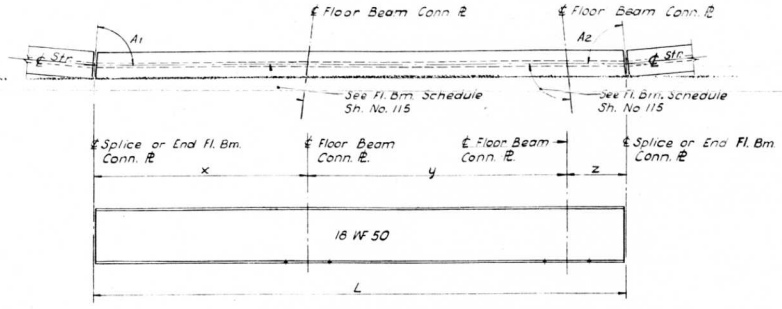
POPLAR STREET BRIDGE APPROACHES
ROADWAY "B"

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

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

SHEET 115 of 24

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	299	151
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

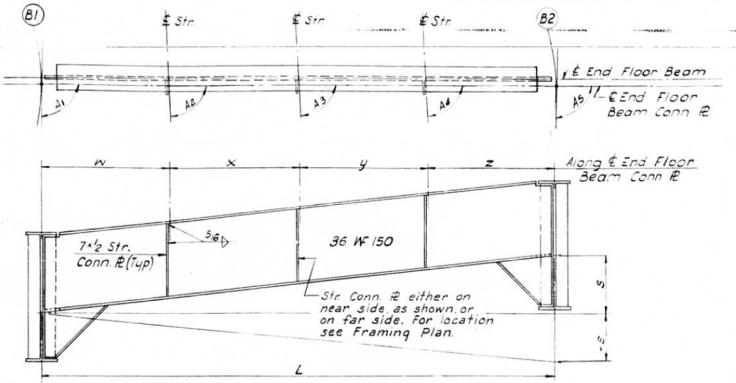


TYPICAL STRINGER ELEVATION
RDWY. B

Str. No.	L	x	y	z	A1	A2
b1	36-11	2-8	20-0	4-3	*	90°00'00"
b2	40-0	5-9	20-0	4-3	90°00'00"	90°00'00"
b3	24-0	15-9	0	13-3	90°00'00"	*
b4	20-6	16-3	0	4-3	*	90°00'00"
b5	40-2	15-9 3/16	20-1	4-3 1/16	89°33'03"	89°10'29"
b6	40-4 1/16	15-10 7/16	20-2	4-3 1/2	89°44'35"	88°58'59"
b7	40-6 1/16	15-11 3/8	20-3 1/16	4-3 3/8	89°33'39"	88°47'35"
b8	30-0 3/16	15-9 3/16	0	15-0 1/16	89°39'01"	*
b9	31-0 7/16	15-10 3/8	0	15-1 1/16	90°27'10"	*
b10	31-2 1/16	15-11 7/16	0	15-2 3/16	90°55'03"	*
b11	19-8 5/16	13-6 3/4	0	4-2 1/16	*	89°39'24"
b12	19-10 1/16	13-7 3/8	0	4-2 7/16	*	89°37'36"
b13	19-11 3/16	13-8 1/2	0	4-2 11/16	*	89°35'48"
b14	36-10 7/16	15-8 13/16	19-11 1/16	4-2 9/16	89°20'20"	89°19'52"
b15	40-0 1/16	15-9 3/8	20-0 1/16	4-2 5/8	89°26'34"	89°17'36"
b16	40-2 1/16	15-10 1/2	20-1 1/16	4-2 11/16	89°28'46"	89°15'26"
b17	35-10 3/8	13-9 5/16	19-11 1/16	4-2 1/4	89°23'33"	89°20'10"
b18	40-0 1/16	15-9 7/16	20-0 1/16	4-2 3/8	89°24'40"	89°18'32"
b19	40-2 1/16	15-10 1/2	20-1 1/16	4-2 11/16	89°27'26"	89°16'46"
b20	35-10 1/16	15-8 13/16	19-11 1/16	4-2 1/4	89°23'27"	89°20'45"
b21	40-2 1/16	15-9 7/16	20-0 1/16	4-2 3/8	89°24'47"	89°19'25"
b22	40-2 1/16	15-10 1/2	20-1 1/16	4-2 11/16	89°28'07"	89°16'05"
b23	39-9 1/2	15-8 1/4	19-10 3/8	4-2 1/4	89°23'02"	89°21'15"
b24	39-11 3/16	15-9 7/16	19-11 1/2	4-2 7/16	89°23'56"	89°20'21"
b25	40-1 1/4	15-10 1/2	20-0 7/16	4-2 11/16	89°24'29"	89°19'28"
b26	39-10 5/8	15-8 3/4	19-11 1/16	4-2 1/4	89°23'00"	89°21'12"
b27	40-0 1/4	15-9 7/16	20-0 1/8	4-2 7/16	89°23'53"	89°20'19"
b28	40-2 1/16	15-10 1/2	20-1 3/16	4-2 5/8	89°27'46"	89°19'26"
b29	31-10 3/16	15-8 3/16	0	16-1 3/4	89°29'41"	*
b30	32-0 1/16	15-9 1/16	0	16-2 5/8	89°29'40"	*
b31	32-2 1/16	15-10 1/2	0	16-3 7/16	89°29'40"	*
b32	33-2 3/8	11-10 1/8	19-3	4-1 1/2	*	89°26'31"
b33	33-4 3/16	11-10 7/8	19-4 1/16	4-1 1/2	*	*
b34	33-4 3/16	11-11 1/8	19-3 1/16	4-1 3/8	*	89°26'31"
b35	38-6 1/16	15-3 5/16	19-3	4-1 1/2	89°23'23"	89°23'22"
b36	38-8 1/16	15-3 5/8	19-4 1/16	4-1 5/8	*	*
b37	38-6 1/8	15-3 7/16	19-3 1/16	4-1 3/8	89°23'23"	89°23'22"
b38	38-8 1/16	15-3 7/16	19-3	4-1 3/8	89°23'24"	89°23'24"
b39	38-8 1/16	15-3 7/16	19-4 1/16	4-1 7/16	*	*
b40	38-8 1/16	15-3 1/8	19-3 1/16	4-1 1/16	89°23'24"	89°23'24"
b41	26-6 1/16	15-1 3/16	0	11-3 1/8	89°34'53"	*
b42	26-6 1/16	15-2 5/8	0	11-3 1/16	*	*
b43	26-7 7/16	15-3 7/16	0	11-4 7/16	89°34'53"	*
b44	36-2 8	12-2 7/8	19-9 1/16	4-2 3/16	*	89°25'36"

Str. No.	L	x	y	z	A1	A2
b45	36-4 1/8	12-3 5/8	19-10 1/16	4-2 7/16	*	89°25'36"
b46	36-6 1/8	12-4 5/16	19-11 1/8	4-2 11/16	*	89°25'36"
b47	39-6 1/16	15-6 3/16	19-9 1/16	4-2 3/16	89°22'25"	89°22'25"
b48	39-8 1/16	15-7 5/8	19-10 1/16	4-2 1/2	*	*
b49	39-10 1/16	13-8 1/2	19-11 1/8	4-2 11/16	89°22'25"	89°22'25"
b50	39-4 1/16	13-6 1/4	19-8 1/16	4-2 1/4	89°22'31"	89°22'31"
b51	30-7	13-7 1/16	19-9 1/2	4-2 7/16	*	*
b52	30-9 1/8	13-7 7/8	19-10 1/16	4-2 11/16	89°22'31"	89°22'31"
b53	28-4 1/16	13-6 1/16	0	12-9 1/2	89°30'00"	*
b54	28-6 1/4	13-7 3/8	0	12-10 5/8	*	*
b55	28-7 1/16	13-8 1/2	0	12-11 3/16	89°30'00"	*
b56	40-0 1/16	15-9	20-0	4-3 1/16	90°00'00"	89°53'30"
b57	40-0 1/16	15-9	20-0	4-3 1/16	*	*
b58	40-0 1/2	15-9	20-0	4-3 1/2	90°00'00"	89°53'30"
b59	27-9 1/16	15-6 1/16	0	12-2 5/8	89°33'33"	*
b60	27-11 1/4	15-7 1/8	0	12-3 5/8	89°33'33"	*
b61	28-0 1/4	15-8 1/2	0	12-4 5/16	89°33'33"	*
b62	36-1 1/2	12-7	19-5	4-1 1/4	*	89°25'40"
b63	36-3 1/8	12-7 3/4	19-6 1/16	4-1 7/16	*	*
b64	36-3 1/8	12-8 1/2	19-7 1/16	4-1 11/16	*	89°25'40"
b65	38-10 1/16	15-3 1/16	19-5	4-1 1/4	89°23'03"	89°23'03"
b66	39-0 1/8	15-4 5/8	19-6 1/16	4-1 7/16	*	*
b67	39-2 1/16	15-5 7/16	19-7 1/16	4-1 11/16	89°23'03"	89°23'03"
b68	38-9 1/16	15-3 7/16	19-5	4-1 1/4	89°23'05"	89°23'06"
b69	38-11 1/2	13-4 1/4	19-6 1/16	4-1 7/16	*	*
b70	39-1 3/16	13-5 1/16	19-7 1/16	4-1 11/16	89°23'05"	89°23'06"
b71	29-2 1/16	13-3 1/16	0	13-1 1	89°32'12"	*
b72	29-4 1/8	13-4 3/8	0	13-1 3/4	*	*
b73	29-5 9/16	13-5 7/16	0	14-0 1/2	89°32'12"	*

* See End Floor Beam Schedule.



TYPICAL END FLOOR BEAM ELEVATION
RDWY. B

End Fl. Bm. No.	L	w	x	y	z	s	A1	A2	A3	A4	A5
L2	30-0	7-6	7-6	7-6	7-6	-0-3 5/8	90°00'00"	90°00'00"	90°00'00"	90°00'00"	90°00'00"
L3	↓	↓	↓	↓	↓	-0-5 3/8	↓	↓	↓	↓	↓
L4	30-0	7-6	7-6	7-6	7-6	-0-3 5/8	90°00'00"	90°00'00"	90°00'00"	90°00'00"	90°00'00"
L5	31-6 1/16	7-10 11/16	7-10 1/16	7-10 1/16	7-10 5/8	2-6 1/16	90°02'33"	91°00'20"	91°28'28"	91°36'21"	92°24'14"
L6	31-7 5/8	7-10 5/8	7-10 5/8	7-10 5/8	7-10 3/4	2-6 1/4	89°57'27"	89°40'33"	89°42'18"	89°44'06"	90°07'51"
L7	32-0	8-0	8-0	8-0	8-0	2-6 3/4	90°01'26"	90°37'46"	90°31'45"	90°31'45"	90°01'26"
+ L8	See Sheet No. 126.										-
+ L9	See Sheet No. 126.										-
L10	32-0	8-0	8-0	8-0	8-0	2-6 3/4	89°58'34"	89°25'05"	89°25'05"	89°25'05"	89°58'35"
L11	↓	↓	↓	↓	↓	↓	90°02'33"	90°27'40"	90°27'40"	90°27'40"	90°02'30"
L12	↓	↓	↓	↓	↓	↓	89°57'27"	89°25'05"	89°25'05"	89°23'02"	89°57'30"
L13	↓	↓	↓	↓	↓	↓	90°02'33"	90°29'00"	90°29'00"	90°29'00"	90°02'31"
L14	↓	↓	↓	↓	↓	↓	89°57'27"	89°25'02"	89°23'02"	89°23'02"	89°57'30"
L15	↓	↓	↓	↓	↓	↓	90°02'33"	90°29'00"	90°29'00"	90°29'00"	90°02'31"
L16	↓	↓	↓	↓	↓	↓	89°57'27"	89°23'02"	89°23'02"	89°23'02"	89°57'30"
L17	32-0	8-0	8-0	8-0	8-0	2-6 3/4	90°01'26"	90°28'26"	90°28'26"	90°28'26"	90°02'35"
+ L18	See Sheet No. 127.										-
+ L19	See Sheet No. 127.										-
L20	32-0	8-0	8-0	8-0	8-0	2-6 3/4	89°57'27"	89°23'07"	89°23'07"	89°23'07"	89°57'30"
L21	32-0	8-0	8-0	8-0	8-0	2-6 3/4	90°00'00"	90°27'49"	90°27'49"	90°27'49"	90°00'00"

\+ Designated as an End Girder.

DESIGNED BY RMF
DRAWN BY J.M.
CHECKED BY AJC
APPROVED BY KA

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

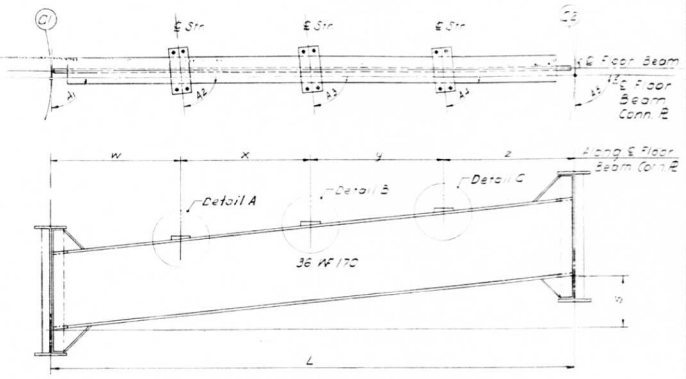
STRINGER AND END FLOOR BEAM SCHEDULE

POPLAR STREET BRIDGE APPROACHES
ROADWAY "B"

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

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

SHEET 116 OF 241



TYPICAL FLOOR BEAM ELEVATION

RDWY. C

Fl. Bm. No.	L	W	X	y	Z	S	A1	A2	A3	A4	A5
21	30'-0	7'-6	7'-6	7'-6	7'-6	0'-5 3/8	90°-00'-00"	90°-00'-00"	90°-00'-00"	90°-00'-00"	90°-00'-00"
22											
23											
24											
25											
26											
27											
28						0'-3 3/8					
29						0'-3 9/16					
30						0'-10 1/16					
31						1'-1 3/16					
32						1'-4 9/16					
33	30'-0	7'-6	7'-6	7'-6	7'-6	1'-7 3/4	90°-00'-00"	90°-00'-00"	90°-00'-00"	90°-00'-00"	90°-00'-00"
34	30'-2 7/16	7'-6 9/16	7'-6 1/2	7'-6 1/2	7'-6 1/2	1'-11 1/2	89°-28'-42"	89°-31'-04"	89°-44'-30"	89°-57'-49"	
35	30'-6 9/16	7'-6 3/8	7'-7 9/16	7'-7 9/16	7'-8 1/16	2'-2 5/16	89°-13'-02"	89°-17'-24"	89°-28'-44"	89°-39'-58"	
36	30'-9 7/16	7'-7 1/16	7'-8 5/16	7'-8 5/16	7'-8 13/16	2'-4 5/16	89°-1'-20"	89°-5'-15"	90°-06'-35"	90°-17'-00"	
37	31'-0 1/4	7'-7 13/16	7'-9	7'-9	7'-10 5/16	2'-5 3/4	88°-21'-36"	88°-24'-11"	88°-33'-43"	88°-43'-09"	
38	31'-2 3/4	7'-9 5/16	7'-9 11/16	7'-9 11/16	7'-10 7/16	2'-6	88°-23'-56"	90°-02'-03"	90°-11'-35"	90°-21'-01"	
39	31'-4 7/16	7'-9 13/16	7'-10 1/16	7'-10 1/16	7'-11 1/16	2'-6 3/8	88°-30'-18"	88°-30'-33"	88°-37'-48"	88°-45'-00"	
40	31'-6 3/8	7'-10 1/16	7'-10 7/16	7'-10 7/16	7'-11 3/16	2'-6 5/16	88°-34'-36"	90°-00'-25"	90°-15'-46"	90°-31'-38"	
41	31'-8 7/16	7'-10	7'-11 1/16	7'-11 1/16	8'-0 1/16	2'-6 1/16	88°-36'-37"	88°-36'-52"	88°-42'-52"	88°-48'-48"	
42	31'-10 7/16	7'-10 5/16	7'-11 7/16	7'-11 7/16	8'-0 1/16	2'-6 9/16	88°-23'-18"	90°-14'-32"	90°-16'-30"	90°-18'-26"	
43	31'-10 7/8	7'-10 5/8	7'-11 7/8	7'-11 7/8	8'-0 7/16	2'-6 3/8	88°-47'-38"	88°-53'-20"	88°-46'-08"	88°-58'-56"	
44	31'-11 1/2	7'-11 1/16	7'-11 13/16	7'-11 13/16	8'-0 7/16	2'-6 1/16	88°-51'-38"	90°-21'-11"	90°-23'-33"	90°-26'-51"	
45	31'-11 3/4	7'-11 3/16	7'-11 15/16	7'-11 15/16	8'-0 7/16	2'-5 11/16	88°-36'-18"	88°-53'-01"	89°-09'-59"	89°-26'-46"	90°-00'-00"
46	32'-0	7'-11	8'-0	8'-0	8'-1	2'-6 3/4	90°-00'-00"	89°-59'-33"	89°-59'-33"	89°-59'-33"	
47		7'-11 9/16	8'-0 1/16	8'-0 1/16	8'-0 5/16			90°-26'-14"	90°-26'-14"	90°-26'-14"	
48		7'-10 5/16	8'-0	8'-0	8'-1 3/16			89°-52'-20"	89°-52'-20"	89°-52'-20"	
49	32'-0	7'-11 9/16	8'-0	8'-0	8'-0 7/16	2'-6 3/4	90°-00'-00"	90°-28'-39"	90°-28'-39"	90°-28'-39"	90°-00'-00"
50	Same as Floor beams 48										
51											
52		ditto									
53		"									
54		"									
55		"									
56	32'-0	7'-10 1/16	8'-0	8'-0	8'-1 3/16	2'-6 3/4	90°-00'-00"	89°-52'-19"	89°-52'-19"	89°-52'-19"	90°-00'-00"
57	32'-0	7'-11 9/16	8'-0	8'-0	8'-0 7/16	2'-6 3/4	90°-00'-00"	90°-28'-38"	90°-28'-38"	90°-28'-38"	90°-00'-00"
58	Same as Floor Beam 48										
59	Same as Floor Beam 49										
60	32'-0	7'-11 3/8	8'-0	8'-0	8'-0 3/8	2'-6 3/4	90°-00'-00"	90°-02'-57"	90°-02'-57"	90°-02'-57"	90°-00'-00"
61		7'-10 5/16	8'-0	8'-0	8'-1 7/16			89°-48'-36"	89°-48'-36"	89°-48'-36"	
62		7'-11 1/2	8'-0	8'-0	8'-0 1/2			90°-27'-45"	90°-27'-45"	90°-27'-45"	
63		7'-10 3/8	8'-0	8'-0	8'-1 3/8			89°-51'-42"	89°-51'-42"	89°-51'-42"	
64	32'-0	7'-11 9/16	8'-0	8'-0	8'-0 9/16	2'-6 3/4	90°-00'-00"	90°-30'-51"	90°-30'-51"	90°-30'-51"	90°-00'-00"
65	Same as Floor Beam 63										
66	Same as Floor Beam 64										

Fl. Bm. No.	L	W	X	y	Z	S	A1	A2	A3	A4	A5
67	Same as Floor Beam 63										
68											
69		ditto									
70		"									
71		"									
72		"									
73		"									
74		"									
75	32'-0	7'-11 1/4	8'-0	8'-0	8'-0 3/4	2'-6 1/4	90°-00'-00"	90°-02'-33"	90°-02'-33"	90°-02'-33"	90°-00'-00"
76		7'-10 15/16	8'-0	8'-0	8'-1 5/16			89°-49'-14"	89°-49'-14"	89°-49'-14"	
77		7'-11 3/8	8'-0	8'-0	8'-0 3/8			90°-28'-44"	90°-28'-44"	90°-28'-44"	
78		7'-10 3/8	8'-0	8'-0	8'-1 3/8			89°-51'-42"	89°-51'-42"	89°-51'-42"	
79	32'-0	7'-11 7/16	8'-0	8'-0	8'-0 7/16	2'-6 1/4	90°-00'-00"	90°-31'-12"	90°-31'-12"	90°-31'-12"	90°-00'-00"
80	Same as Floor Beam 78										
81											
82		ditto									
83		"									
84		"									
85		"									
86	32'-0	7'-10 1/2	8'-0	8'-0	8'-1 1/16	2'-6 1/4	90°-00'-00"	89°-51'-43"	89°-51'-43"	89°-51'-43"	90°-00'-00"
87	32'-0	7'-11 7/16	8'-0	8'-0	8'-0 7/16	2'-6 1/4	90°-00'-00"	90°-31'-01"	90°-31'-01"	90°-31'-01"	90°-00'-00"
88	Same as Floor Beam 78										
89											
90		ditto									
91		"									
92		"									
93		"									
94		"									
95		"									
96	32'-0	7'-11 1/4	8'-0	8'-0	8'-0 3/4	2'-6 1/4	90°-00'-00"	90°-03'-02"	90°-03'-02"	90°-03'-02"	90°-00'-00"
97	32'-0	7'-10 1/2	8'-0	8'-0	8'-1 1/2		90°-00'-00"	89°-48'-41"	89°-48'-41"	89°-48'-41"	90°-00'-00"
98	32'-0	7'-11 1/2	8'-0	8'-0	8'-0 1/2	2'-6 1/4	90°-00'-00"	90°-28'-10"	90°-28'-10"	90°-28'-10"	90°-00'-00"
99	Same as Floor Beam 78										
100											
101		ditto									
102											
103											
104											
105											
106											
107											
108											
109											
110											
111											
112											
113											
114											
115											
116											
117											
118	32'-0	7'-11 3/16	8'-0	8'-0	8'-0 1/16	2'-6 3/4	90°-00'-00"	89°-53'-23"	89°-53'-23"	89°-53'-23"	90°-00'-00"
119	32'-0	7'-11 3/8	8'-0	8'-0	8'-0 3/8	2'-6 3/4	90°-00'-00"	90°-22'-41"	90°-22'-41"	90°-22'-41"	90°-00'-00"
120	Same as Floor Beam 118										
121											
122		ditto									
123											
124	32'-0	7'-10 3/16	8'-0	8'-0	8'-1 1/16	2'-6 1/4	90°-00'-00"	89°-52'-16"	89°-52'-16"	89°-52'-16"	90°-00'-00"
125	32'-0	7'-11 1/2	8'-0	8'-0	8'-0 1/2			90°-29'-13"	90°-29'-13"	90°-29'-13"	
126	32'-0	7'-10 5/16	8'-0	8'-0	8'-1 3/16			89°-52'-12"	89°-52'-12"	89°-52'-12"	
127	32'-0	7'-11 1/2	8'-0	8'-0	8'-0 1/2	2'-6 1/4	90°-00'-00"	90°-29'-08"	90°-29'-08"	90°-29'-08"	90°-00'-00"
128	Same as Floor Beam 126										
129	Same as Floor Beam 127										
130	32'-0	7'-10 1/8	8'-0	8'-0	8'-1 1/8	2'-6 1/4	90°-00'-00"	89°-52'-05"	89°-52'-05"	89°-52'-05"	90°-00'-00"
131	32'-0	7'-11 9/16	8'-0	8'-0	8'-0 9/16	2'-6 1/4	90°-00'-00"	90°-28'-23"	90°-28'-23"	90°-28'-23"	90°-00'-00"
132	Same as Floor Beam 128										
133											
134		ditto									
135		"									
136	32'-0	7'-10 3/16	8'-0	8'-0	8'-1 3/16	2'-6 1/4	90°-00'-00"	89°-52'-20"	89°-52'-20"	89°-52'-20"	90°-00'-00"
137	32'-0	7'-11 9/16	8'-0	8'-0	8'-0 9/16	2'-6 1/4	90°-00'-00"	90°-28'-37"	90°-28'-37"	90°-28'-37"	90°-00'-00"
138	Same as Floor Beam 136										
139											
140		ditto									
141		"									
142		"									
143		"									
144		"									
145		"									
146	32'-0	7'-11 5/16	8'-0	8'-0	8'-0 1/16	2'-6 1/4	90°-00'-00"	90°-01'-42"	90°-01'-42"	90°-01'-42"	90°-00'-00"

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F A I – 70	82–3HVB	ST CLAIR	259	152
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

For Detail A, B and C see Sh. No. 153

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

FLOOR BEAM SCHEDULE

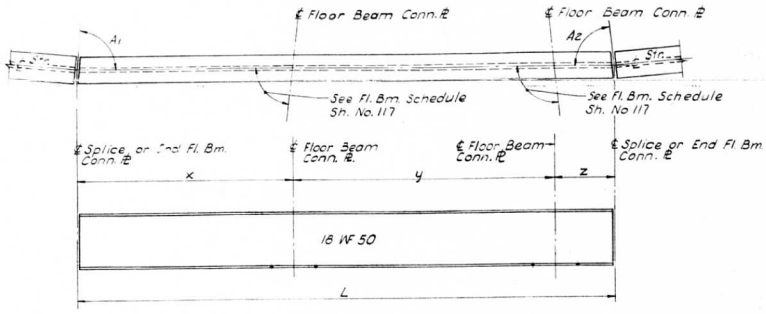
POPLAR STREET BRIDGE APPROACHES
ROADWAY "C"

F A I RT 70 ST CLAIR CO. SECTION 82–3HVB

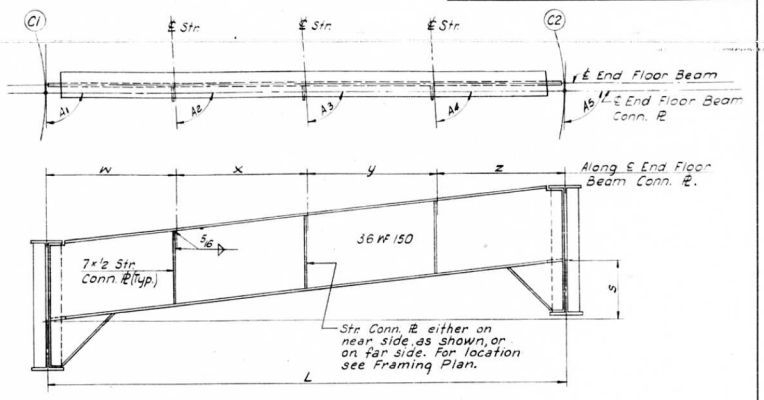
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 117 OF 224

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.–70	82–3HVB	ST. CLAIR	289	153
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



TYPICAL STRINGER ELEVATION
RDWY. C



TYPICAL END FLOOR BEAM ELEVATION
RDWY. C

Str. No.	L	x	y	z	A1	A2
7	36'-11	12'-8	20'-0	4'-3	*	90°-00'-00"
2	40'-0	13'-9	20'-0	4'-3	90°-00'-00"	90°-00'-00"
3	29'-0	13'-9	0	13'-3	90°-00'-00"	*
4	32'-0	16'-3	0	15'-9	*	90°-00'-00"
5	20'-0 3/8	4'-3	0	16'-5 7/16	90°-00'-00"	*
6	20'-11	4'-3	0	16'-8	90°-00'-00"	*
7	20'-11 3/8	4'-3	0	16'-8 3/8	90°-00'-00"	*
8	18'-10	14'-7 11/16	0	4'-2 9/16	*	90°-20'-57"
9	18'-11	14'-8 1/16	0	4'-2 9/16	*	90°-01'-34"
10	19'-0 1/16	14'-9 4	0	4'-2 3/16	*	89°-54'-13"
11	39'-7 5/16	15'-8 3/8	19'-10 1/2	4'-2 3/8	88°-47'-31"	89°-36'-46"
12	39'-7 5/16	15'-9 1/16	19'-11 3/16	4'-2 1/16	88°-38'-51"	89°-45'-26"
13	40'-2	15'-10 3/16	20'-1	4'-2 3/16	89°-10'-05"	89°-34'-11"
14	39'-7 3/8	15'-8 5/8	19'-10 5/8	4'-2 3/8	88°-54'-19"	89°-49'-58"
15	39'-11 3/8	15'-9 3/8	19'-11 5/8	4'-2 9/16	89°-03'-50"	89°-40'-26"
16	40'-1 7/16	15'-10 1/16	20'-0 3/4	4'-2 5/16	89°-13'-17"	89°-31'-00"
17	39'-9 3/4	15'-8 9/16	19'-10 5/8	4'-2 5/16	89°-00'-40"	89°-43'-36"
18	39'-11 3/8	15'-9 3/8	19'-11 5/8	4'-2 1/2	89°-07'-55"	89°-36'-21"
19	40'-1 5/16	15'-10 1/16	20'-0 1/4	4'-2 3/16	89°-15'-07"	89°-29'-10"
20	39'-10 1/4	15'-8 1/2	19'-11 1/16	4'-2 3/16	89°-07'-11"	89°-37'-11"
21	40'-0 3/8	15'-9 3/8	20'-0 1/16	4'-2 9/16	89°-11'-54"	89°-32'-12"
22	40'-0 1/2	15'-10 3/8	20'-1 1/2	4'-2 13/16	89°-16'-55"	89°-27'-15"
23	39'-9 1/16	15'-8 1/2	19'-10 7/16	4'-2 3/8	89°-13'-26"	89°-30'-50"
24	39'-11 3/4	15'-9 7/16	19'-11 5/8	4'-2 9/16	89°-16'-10"	89°-28'-06"
25	40'-1 3/8	15'-10 1/16	20'-0 1/4	4'-2 3/4	89°-18'-52"	89°-25'-24"
26	31'-0 1/4	15'-8 3/8	0	16'-2 7/16	89°-27'-08"	*
27	32'-0 7/8	3'-7 1/16	0	16'-3 3/8	89°-28'-19"	*
28	32'-3 3/16	15'-10 3/16	0	16'-4 3/16	89°-29'-23"	*
29	35'-7 9/16	12'-6 3/16	19'-1	4'-0 3/8	*	89°-26'-06"
30	35'-9 1/2	12'-6 7/8	19'-2	4'-0 5/8	*	*
31	35'-11 7/16	12'-7 9/16	19 3/16	4'-0 3/16	*	89°-26'-06"
32	35'-2	15'-0 3/8	19'-1	4'-0 3/8	89°-23'-41"	89°-23'-42"
33	38'-4 1/16	15'-1 7/16	19'-2	4'-0 5/8	*	*
34	38'-6 1/16	15'-2 1/4	19 3/16	4'-0 3/4	*	*
35	38'-1 3/8	15'-0 1/2	19'-1	4'-0 3/8	*	*
36	38'-3 3/8	15'-1 5/16	19'-2	4'-0 9/16	*	*
37	38'-5 7/16	15'-2 1/16	19 3/16	4'-0 7/16	89°-23'-42"	89°-23'-42"
38	26'-11 5/16	15'-0 3/4	0	11'-11 7/16	89°-36'-19"	*
39	27'-3 1/8	15'-1 7/16	0	11'-11 7/8	*	*
40	27'-3 1/2	15'-2 1/4	0	12'-0 5/8	89°-34'-19"	*
41	37'-0 7/16	12'-1 1/4	20'-6 3/8	4'-4 9/16	*	89°-23'-58"
42	38'-0 1/2	13'-0	20'-8	4'-6 1/2	*	*
43	38'-2 5/8	13'-0 1/4	20'-9 1/16	4'-4 13/16	*	89°-23'-58"
44	41'-1 13/16	16'-2 5/8	20'-6 3/8	4'-4 5/16	89°-20'-51"	89°-20'-51"

Str. No.	L	x	y	z	A1	A2
C45	41'-4	16'-3 7/16	20'-8	4'-4 9/16	89°-20'-51"	89°-20'-51"
C46	41'-6 3/16	16'-4 5/16	20'-9 1/16	4'-4 13/16	89°-20'-51"	89°-20'-51"
C47	29'-8 3/16	16'-2 5/8	0	13'-6 3/16	89°-31'-42"	*
C48	29'-10 1/16	16'-3 7/16	0	13'-7	*	*
C49	30'-0 1/16	16'-4 5/16	0	13'-7 3/4	89°-31'-42"	*
C50	38'-10 3/16	13'-0 3/8	20'-9 1/16	4'-4 3/8	*	89°-22'-59"
C51	39'-0 5/16	13'-0 3/16	20'-10 1/16	4'-4 7/16	*	*
C52	39'-3	13'-0 3/16	20'-11 1/16	4'-4 3/4	*	89°-22'-59"
C53	41'-6 3/16	16'-4 5/16	20'-9 1/16	4'-4 5/16	89°-20'-30"	89°-20'-30"
C54	41'-8 3/8	16'-5 1/16	20'-10 1/16	4'-4 1/2	*	*
C55	41'-10 5/8	16'-5 15/16	20'-11 1/16	4'-4 3/4	89°-20'-30"	89°-20'-30"
C56	41'-3 1/4	16'-3 1/16	20'-7 1/8	4'-4 5/16	89°-20'-42"	89°-20'-42"
C57	41'-5 7/16	16'-4 1/16	20'-8 1/16	4'-4 9/16	*	*
C58	41'-5 5/8	16'-3 3/16	20'-10 1/16	4'-4 3/4	89°-20'-42"	89°-20'-42"
C59	29'-7 3/16	16'-2 1/16	0	13'-2 5/8	89°-31'-50"	*
C60	29'-8 1/4	16'-5 1/16	0	13'-3 1/8	*	*
C61	29'-10 1/2	16'-6 9/16	0	13'-3 7/16	89°-31'-50"	*
C62	38'-3 1/16	13'-2 3/8	20'-9 1/8	4'-4 5/16	*	89°-23'-32"
C63	38'-5 1/16	13'-3 1/16	20'-10 1/8	4'-4 9/16	*	*
C64	38'-8	13'-3 1/16	20'-11 1/8	4'-4 3/4	*	89°-23'-32"
C65	31'-10 1/16	16'-5 5/8	15'-4 3/16	4'-0 3/8	*	89°-29'-39"
C66	32'-0 1/16	12'-6 4	15'-5 3/8	4'-0 9/16	*	*
C67	32'-2 1/4	12'-7	15'-6 7/16	4'-0 3/16	*	89°-29'-39"
C68	38'-0 1/16	15'-4 1/16	19'-5	4'-1 1/4	89°-22'-59"	89°-22'-59"
C69	39'-1	13'-5 1/2	19 6/16	4'-1 7/16	*	*
C70	39'-3 1/16	15'-6 3/16	19'-7 1/16	4'-1 11/16	89°-22'-59"	89°-22'-59"
C71	37'-10 3/4	14'-0 5/8	19'-1	4'-0 3/8	89°-23'-57"	89°-23'-57"
C72	38'-0 1/4	14'-10 3/16	19'-2	4'-0 9/16	*	*
C73	38'-2 1/4	14'-10 15/16	19 3/16	4'-0 5/16	89°-23'-57"	89°-23'-57"
C74	28'-3 3/16	15'-0 3/8	0	13'-3 1/16	89°-33'-04"	*
C75	28'-5 1/16	15'-1 7/16	0	13'-3 7/8	*	*
C76	28'-8 3/8	15'-2 1/4	0	13'-4 5/8	89°-33'-04"	*
C77	38'-1 1/16	15'-0 1/2	19'-0 3/16	4'-0 1/8	89°-23'-43"	89°-23'-43"
C78	38'-3 1/16	15'-1 7/16	19'-1 3/16	4'-0 1/4	*	*
C79	38'-5 1/4	15'-2 1/16	19'-2 1/8	4'-0 3/16	89°-23'-43"	89°-23'-43"
C80	38'-0 1/16	15'-3 1/16	19'-3	4'-1 1/4	89°-23'-03"	89°-23'-03"
C81	35'-0 9	15'-2 5/8	19'-6 1/16	4'-1 7/16	*	*
C82	39'-2 1/16	15'-9 7/16	19'-7 1/16	4'-1 11/16	89°-23'-03"	89°-23'-03"

End Fl. Bm. No.	L	w	x	y	z	s	A1	A2	A3	A4	A5
L2	30'-0	7'-6	7'-6	7'-6	7'-6	0'-5 3/8	90°-00'-00"	90°-00'-00"	90°-00'-00"	90°-00'-00"	90°-00'-00"
L3	⋮	⋮	⋮	⋮	⋮	0'-5 3/8	⋮	⋮	⋮	⋮	⋮
L4	30'-0	7'-6	7'-6	7'-6	7'-6	0'-5 3/8	90°-00'-00"	90°-00'-00"	90°-00'-00"	90°-00'-00"	90°-00'-00"
L5	30'-0	7'-6	7'-6	7'-6	7'-6	1'-9 3/16	90°-04'-12"	90°-04'-12"	90°-04'-12"	90°-04'-12"	90°-02'-30"
L6	30'-0	7'-6 1/16	7'-6 1/16	7'-6 1/16	7'-6 1/16	1'-9 3/8	89°-53'-02"	89°-55'-42"	89°-55'-18"	89°-57'-27"	89°-57'-30"
L7	32'-0	8'-0	8'-0	8'-0	8'-0	2'-6 3/4	90°-01'-16"	90°-29'-17"	90°-30'-24"	90°-31'-31"	90°-01'-25"
+ L8	SEE SHEET NO 126										
+ L9	SEE SHEET NO 126										
L10	32'-0	8'-0	8'-0	8'-0	8'-0	2'-6 3/4	89°-58'-34"	89°-24'-41"	89°-26'-41"	89°-24'-41"	89°-58'-36"
L11	↓	↓	↓	↓	↓	2'-6 3/4	90°-02'-33"	90°-28'-11"	90°-28'-11"	90°-28'-11"	90°-02'-30"
L12							89°-57'-27"	89°-21'-27"	89°-21'-27"	89°-21'-27"	89°-57'-30"
L13							90°-01'-26"	90°-29'-42"	90°-29'-42"	90°-29'-42"	90°-01'-25"
L14							89°-58'-34"	89°-21'-35"	89°-21'-35"	89°-21'-35"	89°-58'-36"
L15							90°-02'-33"	90°-30'-41"	90°-30'-41"	90°-30'-41"	90°-02'-30"
L16							89°-57'-27"	89°-21'-02"	89°-21'-02"	89°-21'-02"	89°-57'-30"
L17							90°-02'-33"	90°-30'-41"	90°-30'-41"	90°-30'-41"	90°-02'-30"
L18							89°-57'-27"	89°-27'-09"	89°-27'-09"	89°-27'-09"	89°-57'-30"
L19	32'-0	8'-0	8'-0	8'-0	8'-0	2'-6 3/4	90°-00'-00"	90°-26'-56"	90°-26'-56"	90°-26'-56"	90°-00'-00"

+ Designated as an End Girder

DRAWN BY RMR
CHECKED BY I.M.
TRACED BY AJC
CHECKED BY KA

* See End Floor Beam Schedule.

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

STRINGER AND END FLOOR BEAM SCHEDULE

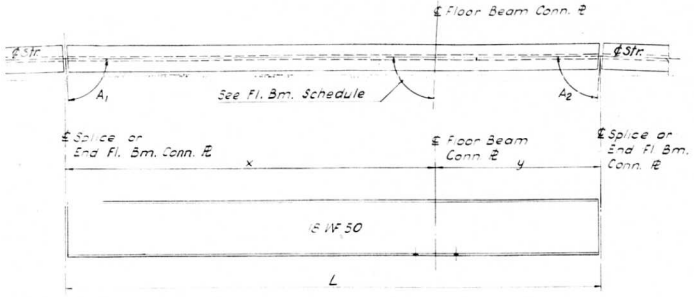
POPLAR STREET BRIDGE APPROACHES
ROADWAY "C"

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

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

SHEET 118 OF 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I. – 70	82–3HVB	ST. CLAIR	289	154
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

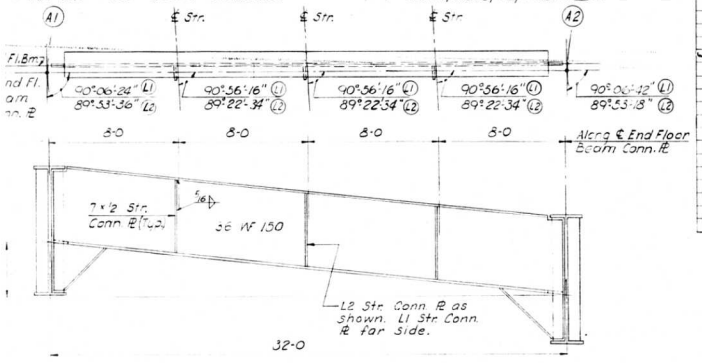


TYPICAL STRINGER ELEVATION

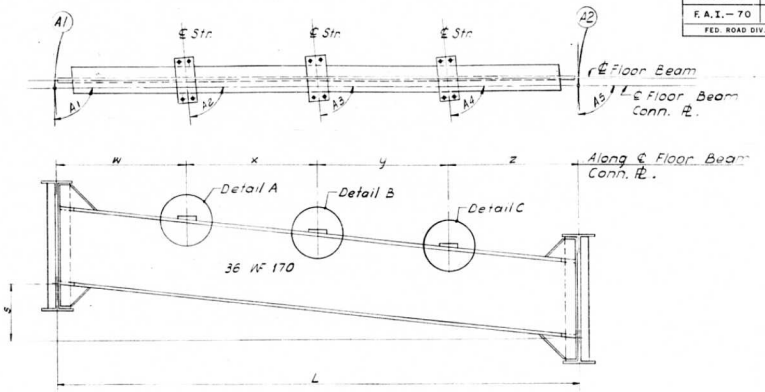
Str. No.	L	x	y	A1	A2
a1	20-3 1/8	16-1 1/16	4-4 3/4	*	89°-10'-16"
a2	20-3	15-10 7/8	4-4 3/16	*	
a3	20-2 15/16	15-9 7/8	4-4 3/8		89°-10'-16"
a4	20-2 7/8	16-2 5/8	4-4 7/16	89°-09'-32"	89°-09'-32"
a5	20-2 7/8	16-2 7/8	4-4 3/16		
a6	20-3 1/16	16-3 3/8	4-3 9/8	89°-09'-32"	89°-09'-32"
a7	20-6 5/16	16-6 3/8	4-11 1/16	89°-10'-10"	89°-10'-10"
a8	20-3 9/16	16-2 7/8	4-1 1/8		
a9	20-0 3/4	16-0 1/16	4-0 9/16	89°-10'-10"	89°-10'-10"
a10	19-6 9/16	15-5 1/4	4-1 11/16	89°-12'-28"	89°-12'-28"
a11	19-4 5/16	15-3 3/16	4-1 1/8		
a12	19-1 5/8	15-1 1/16	4-0 9/16	89°-12'-28"	89°-12'-28"

Str No.	L	x	y	A1	A2
a13	19-8 1/2	15-6 9/16	4-1 11/16	89°-12'-09"	89°-12'-09"
a14	19-5 9/16	15-3 11/16	4-1 1/8		
a15	19-3 1/8	15-1 9/16	4-0 9/16	89°-12'-09"	89°-12'-09"
a16	19-0 1/16	15-1/4	4-0 3/16	89°-11'-50"	89°-11'-50"
a17	19-7 3/8	15-3 3/16	4-4 3/16		
a18	19-4 11/16	15-1 1/16	4-3 3/8	89°-11'-50"	89°-11'-50"
a19	19-9	16-4 11/16	3-4 5/16	89°-12'-03"	89°-12'-03"
a20	19-6 3/8	16-2 7/8	3-3 15/16		
a21	19-3 1/16	16-0 3/16	3-3 1/2	89°-12'-03"	89°-12'-03"
a22	12-8 1/2	*	*	89°-29'-07"	*
a23	12-6 3/8	*	*		*
a24	12-5	*	*	89°-29'-07"	*

* See End Floor Beam Schedule. ** No intersecting Floor Beam



TYPICAL END FLOOR BEAM ELEVATION
L1 & L2



TYPICAL FLOOR BEAM ELEVATION

Fl. Bm. No.	L	w	x	y	z	s	A1	A2	A3	A4	A5
1	32'-0	8'-0 9/16	8'-0	8'-0	7'-11 7/16	2'-6 3/4	90°-00'-00"	89°-31'-33"	89°-31'-33"	89°-31'-33"	90°-00'-00"
2	32'-0	8'-0 9/16	8'-0	8'-0	7'-11 3/8	2'-6 3/4	90°-00'-00"	89°-30'-53"	89°-30'-53"	89°-30'-53"	90°-00'-00"
3	Same as Floor Beam 2,										
4	ditto										
5	"										
6	32'-0	8'-0 9/16	8'-0	8'-0	7'-11 7/16	2'-6 3/4	90°-00'-00"	89°-30'-16"	89°-30'-16"	89°-30'-16"	90°-00'-00"
7	32'-0	8'-0 9/16	8'-0	8'-0	7'-11 7/16	2'-6 3/4	90°-00'-00"	89°-32'-34"	89°-32'-34"	89°-32'-34"	90°-00'-00"
8	Same as Floor Beam 1										
9	ditto										
10	"										
11	"										
12	"										
13	"										
14	32'-0	8'-0 9/16	8'-0	8'-0	7'-11 7/16	2'-6 3/4	90°-00'-00"	89°-32'-15"	89°-32'-15"	89°-32'-15"	90°-00'-00"
15	Same as Floor Beam 14										
16	Same as Floor Beam 1										
17	ditto										
18	"										
19	"										
20	"										
21	"										
22	32'-0	8'-0 9/16	8'-0	8'-0	7'-11 7/16	2'-6 3/4	90°-00'-00"	89°-33'-12"	89°-33'-12"	89°-33'-12"	90°-00'-00"
23	Same as Floor Beam 22,										
24	ditto										
25	"										
26	"										
27	32'-0	8'-0 7/16	8'-0	8'-0	7'-11 9/16	2'-6 3/4	90°-00'-00"	89°-28'-23"	89°-28'-23"	89°-28'-23"	90°-00'-00"

For Detail A, B and C see Sh. No. 133

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

FLOOR BEAM, STRINGER AND END FLOOR BEAM SCHEDULE

POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

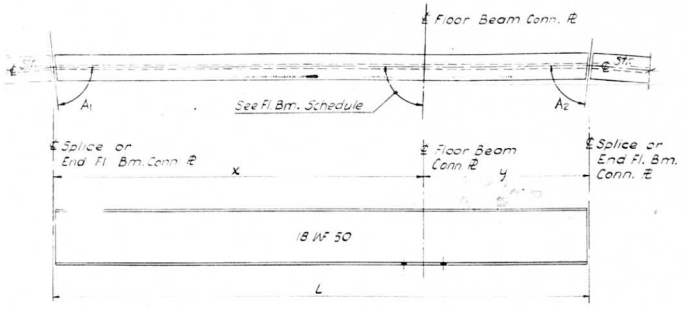
F. A. I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

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

SHEET 119 of 241

D BY PMR
BY I.M.
D BY AJC
ED BY KA

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.I. – 70	82-3HVB	ST. CLAIR	269	55
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

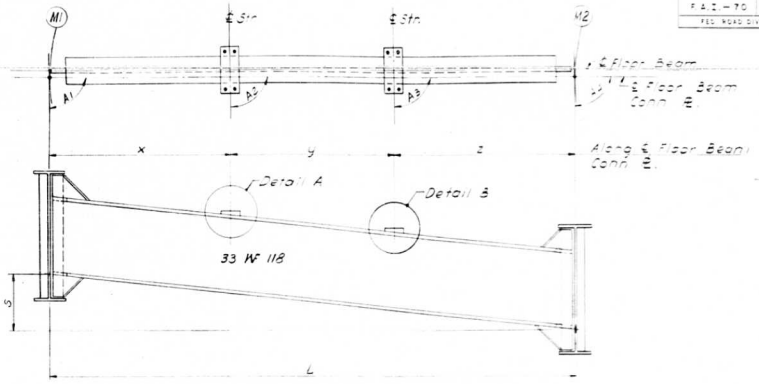


TYPICAL STRINGER ELEVATION

No.	L	x	y	A1	A2
	18-1 7/16	13-9 1/16	4-4 3/8	*	89°09'11"
	17-10 3/8	13-6 1/16	4-3 1/16	*	89°09'11"
	20-8 1/2	16-4 1/8	4-4 3/8	89°01'50"	89°01'50"
	20-5 1/4	16-1 9/16	4-3 1/16	89°01'50"	89°01'50"
	20-10 3/8	16-6 7/16	4-4 3/8	89°01'18"	89°01'18"

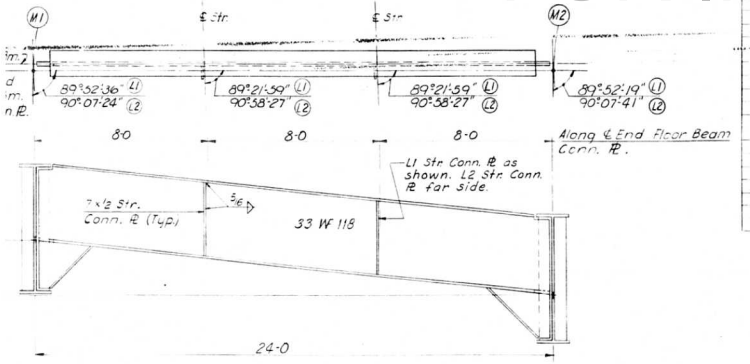
Str No	L	x	y	A1	A2
m6	20-7 1/2	16-3 9/16	4-3 1/16	89°01'18"	89°01'18"
m7	19-3	16-4 3/8	2-10 7/8	89°05'55"	89°05'55"
m8	19-0	16-1 9/16	2-10 7/16	89°05'55"	89°05'55"
m9	10-10 3/8	* *	* *	89°29'37"	*
m10	10-8 1/4	* *	* *	89°29'37"	*

* See End Floor Beam Schedule
** No intersecting Floor Beam



TYPICAL FLOOR BEAM ELEVATION

Fl. Bm. No.	L	x	y	z	s	A1	A2	A3	A4
1	24-0	8-0 1/16	8-0	7-11 3/16	1-11/16	90°00'00"	89°22'16"	90°22'16"	90°00'00"
2	24-0	8-0 1/16	8-0	7-11 3/16	1-11/16	90°00'00"	89°26'21"	90°26'21"	90°00'00"
3	(Same as Floor Beam 2, ditto)								
4									
5	24-0	8-0 1/16	8-0	7-11 3/16	1-11/16	90°00'00"	89°25'49"	90°25'49"	90°00'00"
6	(Same as Floor Beam 2, ditto)								
7									
8									
9									
10									
11									
12									
13									
14									
15	24-0	8-0 1/16	8-0	7-11 3/16	1-11/16	90°00'00"	89°33'42"	90°33'42"	90°00'00"



TYPICAL END FLOOR BEAM ELEVATION
L1 & L2

For Detail A and B see Str. No. 83

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

FLOOR BEAM, STRINGER AND END FLOOR BEAM SCHEDULE

POPLAR STREET BRIDGE APPROACHES
RAMP "M"

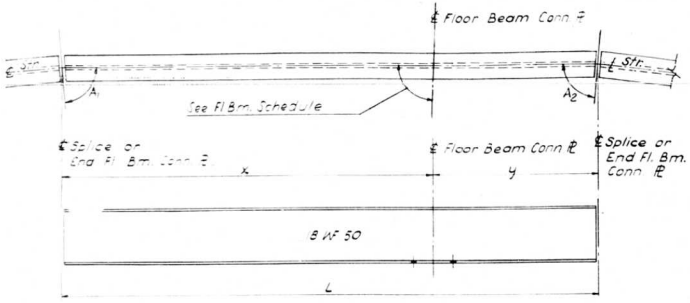
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

H.W. LOCHNER INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET
120 of 241

RMR
J.M.
A.J.C.
K.A.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	156
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

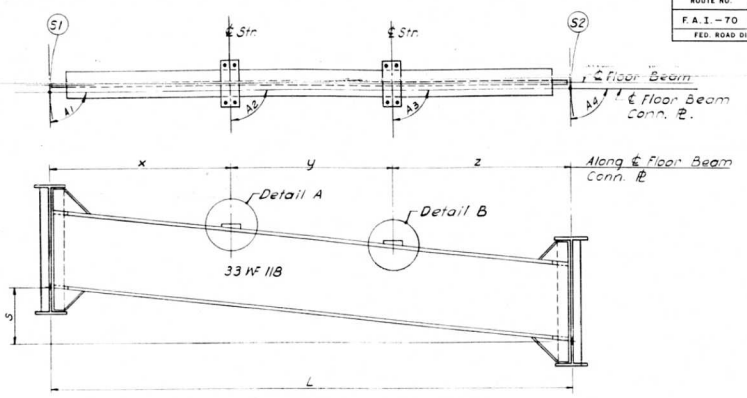


TYPICAL STRINGER ELEVATION

No.	L	x	y	A1	A2
	7-3½	2-0⅜	4-4⅜	″	89°-8-15"
	17-1⅛	2-0⅜	4-4⅜	″	89°-8-15"
	20'-0⅜	4-4⅜	4-4⅜	89°-10-40"	89°-06-20"
	20'-0⅜	4-4⅜	4-4⅜	89°-06-40"	89°-06-20"
	21'-0⅜	4-4⅜	4-4⅜	89°-09-15"	89°-09-15"

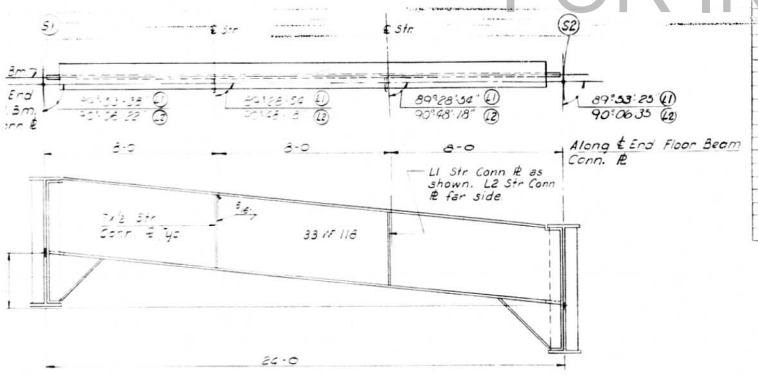
Str No	L	x	y	A1	A2
J6	20-9⅞	16-3⅛	4-4⅜	89°-09'-15"	89°-09'-15"
J7	19-1⅞	16-3⅛	2-8⅜	89°-13'-45"	89°-13'-45"
J8	18-11⅞	16-3⅛	2-8⅜	89°-13'-45"	89°-13'-45"
J9	10-2⅜	″	″	89°-35'-27"	″
J10	10-0⅜	″	″	89°-35'-27"	″

* See End Floor Beam Schedule
** W/o intersecting Floor Beam



TYPICAL FLOOR BEAM ELEVATION

Fl. Bm. No.	L	x	y	z	s	A1	A2	A3	A4
1	24-0	8-0⅜	8-0	7-11⅜	1-11⅛	90°00'00"	89°26'51"	89°26'51"	90°00'00"
2	24-0	8-0⅜	8-0	7-11⅜	1-11⅛	90°00'00"	89°30'57"	89°30'57"	90°00'00"
3	Same as Floor Beam 2								
4									
5		ditto							
6		″							
7		″							
8		″							
9		″							
10		″							
11	24-0	8-0⅜	8-0	7-11⅜	1-11⅛	90°00'00"	89°30'32"	89°30'32"	90°00'00"
12	Same as Floor Beam 11								
13									
14		ditto							
15		″							
16		″							
17	Same as Floor Beam 2								
18									
19		ditto							
20		″							
21		″							
22		″							
23		″							
24		″							
25		″							
26		″							
27	24-0	8-0⅛	8-0	7-11⅛	1-11⅛	90°00'00"	89°39'32"	89°39'32"	90°00'00"



TYPICAL END FLOOR BEAM ELEVATION
L1 & L2

For Detail A and B see Sh No. 133

DES. BY P.M.R.
DET. BY I.M.
CK. BY A.J.C.
QUAN. BY K.A.

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

FLOOR BEAM, STRINGER AND END FLOOR BEAM SCHEDULE

POPLAR STREET BRIDGE APPROACHES RAMP "S"

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

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

SHEET 121 OF 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	249	137
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

3-Span Continuous

Table of Moments and Reactions

Spans BC8 B9 B10 *

Location		.4 Span BC8	.5 Span B9	Pier B9	Pier BC8	Pier B9	
		Moment			Reaction		
Dead	Primary	1160	1300	2680	85	312	
Load	Secondary	23	26	53	2	6	
Live	Primary	1030	1090	1080	71	105	
Load	Secondary	21	22	20	1	2	
Impact		26	243	241	18	26	
Centrifugal force		37	39	37	2	3	
Total		2532	2700	4043	180	454	
Section Modulus		1930	930	2910	—	—	
Torque Loading	Dead Load	4.7	5.2	8.8			
	Live Load	4.1	4.3	3.4			
	Impact	1.0	1.0	0.8			
	Total	9.8	10.5	3.0			
	Section Modulus	67.5	67.5	1080			

* Design applies also to Spans BC5 thru BC7 and Spans BC8, C9, C10

3-Span Continuous

Table of Moments and Reactions

Spans B28 thru B30 *

Location		.4 Span B28	.5 Span B29	Pier B29	Pier B28	Pier B29	
		Moment			Reaction		
Dead	Primary	1650	1690	3740	104	360	
Load	Secondary	33	34	75	2	7	
Live	Primary	1290	1430	1460	72	123	
Load	Secondary	24	29	29	1	2	
Impact		302	301	323	14	27	
Centrifugal force		47	52	53	2	4	
Total		3346	3536	5680	195	523	
Section Modulus		2410	2410	3970	—	—	
Torque Loading	Dead Load	6.6	6.8	12.4			
	Live Load	5.2	5.7	5.0			
	Impact	1.0	1.2	1.3			
	Total	12.8	13.7	18.7			
	Section Modulus	87.75	87.75	148.5			

* Design applies also to Spans B12 thru B14 and Spans C12 thru C14.

4-Span Continuous

Table of Moments and Reactions

Spans B0 thru B04

Location		.4 Span B0	.5 Span B02	Pier B02	Pier B03	Pier B0	Pier B02	Pier B03
		Moment				Reaction		
Dead	Primary	690	1610	4100	4400	128	350	388
Load	Secondary	—	—	—	—	—	—	—
Live	Primary	1250	870	830	830	73	88	88
Load	Secondary	—	—	—	—	—	—	—
Impact		288	260	356	374	19	28	27
Centrifugal force		—	—	—	—	—	—	—
Total		3228	3040	6086	6603	288	518	543
Section Modulus		2090	820	3970	4460	—		

Moments in Foot-Kips
Reactions in Kips
Section Modulus = In.³

4-Span Continuous

Table of Moments and Reactions

Spans B15 thru B18 *

Location		.4 Span B15	.5 Span B16	Pier B16	Pier B17	Pier B15	Pier B16	Pier B17
		Moment				Reaction		
Dead	Primary	660	1490	4060	4340	103	378	384
Load	Secondary	33	30	41	44	2	8	8
Live	Primary	280	260	640	1930	73	29	134
Load	Secondary	25	25	16	18	1	2	3
Impact		300	262	357	378	17	28	29
Centrifugal force		46	46	60	67	3	5	4
Total		3344	3313	6174	6677	199	550	562
Section Modulus		2260	2260	4300	4800	—	—	—
Torque Loading	Dead Load	6.6	6.0	3.4	14.3			
	Live Load	5.1	5.0	5.4	6.0			
	Impact	1.2	1.0	1.2	1.2			
	Total	12.9	12.0	20.0	21.8			
	Section Modulus	91.0	91.0	162.0	162.5			

* Design applies also to Spans B19 thru B22 and Spans B23 thru B26.

4-Span Continuous

Table of Moments and Reactions

Spans C18 thru C21 *

Location		.4 Span C18	.5 Span C19	Pier C19	Pier C20	Pier C18	Pier C19	Pier C20
		Moment				Reaction		
Dead	Primary	1860	1650	4500	4800	111	396	402
Load	Secondary	37	33	45	48	2	—	—
Live	Primary	1360	1360	1790	2000	74	134	139
Load	Secondary	27	27	18	20	2	—	—
Impact		310	277	382	404	17	28	28
Centrifugal force		49	49	65	72	3	5	5
Total		3643	3396	6800	7344	209	565	574
Section Modulus		2420	2420	4800	5120	—	—	—
Torque Loading	Dead Load	7.5	6.6	14.8	15.3			
	Live Load	5.4	5.4	5.9	6.6			
	Impact	1.2	1.1	1.2	1.3			
	Total	14.1	13.1	21.9	23.7			
	Section Modulus	87.6	87.6	182	196			

* Design applies also to Spans C22 thru C25.

4-Span Continuous

Table of Moments and Reactions

Spans B25 thru B28

Location		.4 Span B25	.5 Span B26	Pier B26	Pier B27	Pier B25	Pier B26	Pier B27
		Moment				Reaction		
Dead	Primary	3695	2466	7236	7489	88	497	499
Load	Secondary	87	78	246	260	6	—	—
Live	Primary	1790	740	2150	3050	70	6	167
Load	Secondary	100	58	93	84	2	—	—
Impact		370	317	538	546	9	30	30
Centrifugal force		66	63	257	280	1	8	8
Total		5826	4322	10,820	11618	276	701	704
Section Modulus		3080	2480	7920	7920	—	—	—
Torque Loading	Dead Load	34	9	72	75			
	Live Load	22	22	27	30			
	Impact	5	4	5	5			
	Total	61	57	104	110			
	Section Modulus	244	244	560	560			

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

STRESS TABLES

POPLAR STREET BRIDGE APPROACHES
ROADWAYS "A", "B" AND "C"

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

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

SHEET 122 (of 241)

DESIGNED BY A.J.A.
DRAWN BY I.M.
CHECKED BY A.J.A.
APPROVED BY K.A.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	229	58
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

5-Span Continuous

Table of Moments and Reactions

Spans C26 thru C30

Location		.4 Span C26	.5 Span C27	.5 Span C28	.5 Span C29	.6 Span C30	Pier C21	Pier C28	Pier C29	Pier C30	Pier C26	Pier C27	Pier C28	Pier C29	Pier C30	Abut. C31
		Moment									Reaction					
Dead Load	Primary	2250	2377	1151	1591	1554	5124	4594	3450	3714	120	435	388	335	370	97
	Secondary	43	50	24	32	30	105	92	69	74	2	9	8	7	7	2
Live Load	Primary	1520	1560	1250	1260	1220	1920	1710	1640	1532	74	141	140	131	128	61
	Secondary	30	31	25	25	24	38	34	33	30	2	3	3	3	3	1
Impact		335	306	267	268	291	398	350	348	344	16	29	29	28	29	13
Centrifugal force		55	57	45	46	44	70	62	59	54	3	5	5	5	5	2
Total		4233	4381	2762	3222	3163	7655	6842	5599	5748	217	622	573	509	542	176
Section Modulus		3100	3100	2370	2370	2370	5210	5210	4320	4320	—	—	—	—	—	—
Torque Loading	Dead Load	10.2	12.0	5.5	8.4	7.2	18.3	15.4	11.1	13.5						
	Live Load	7.5	7.5	6.0	6.0	5.9	6.7	6.5	5.7	5.2						
	Impact	1.6	1.5	1.3	1.3	1.4	1.4	1.3	1.2	1.1						
	Total	19.3	21.0	12.8	15.7	14.5	26.4	23.2	18.0	19.8						
	Section Modulus	192	192	144	144	144	324	324	264	264						

Table of Moments and Reactions

Spans C15 thru C17

Location		.4 Span C15	.5 Span C16	Pier C16	Pier C15	Pier C16
		Moment			Reaction	
Dead Load	Primary	1850	1900	4200	110	390
	Secondary	37	38	84	2	8
Live Load	Primary	1400	1430	1630	75	131
	Secondary	28	28	32	1	3
Impact		320	294	346	17	28
Centrifugal force		51	52	59	2	4
Total		3686	3742	6351	207	562
Section Modulus		2590	2590	4280	—	—
Torque Loading	Dead Load	7.4	7.6	13		
	Live Load	5.6	5.7	5		
	Impact	1.3	1.2	2		
	Total	14.3	14.5	20		
	Section Modulus	94.5	94.5	162		

5-Span Continuous

Table of Moments and Reactions

Spans S11 Thru S15

Location		.4 Span S11	.5 Span S12	.5 Span S13	.5 Span S14	.6 Span S15	Pier S12	Pier S14	Pier S15	Pier S16	Pier S10	Pier S11	Pier S12	Pier S13	Pier S14	Pier S15
		Moment									Reaction					
Dead Load	Primary	670	1490	1440	1490	1670	3920	3960	3960	3920	93	341	343	343	341	93
Load	Secondary	10	25	21	25	10	39	40	40	39	5	—	—	—	—	5
Live Load	Primary	875	890	975	890	875	1165	1290	1290	1165	48	88	92	92	88	48
Load	Secondary	58	75	82	75	58	12	13	13	12	2	—	—	—	—	2
Impact		210	193	212	193	210	248	260	260	248	10	19	18	18	19	10
Centrifugal force		79	80	88	80	79	105	116	116	105	4	8	8	8	8	4
Total		3002	2953	2918	2953	3002	5459	5679	5679	5489	162	456	461	461	456	162
Section Modulus		2190	2190	2190	2190	2190	4070	4070	4070	4070	—	—	—	—	—	—
Torque Loading	Dead Load	20.2	18.0	17.4	18.0	20.2	39.0	40.0	40.0	39.0						
	Live Load	10.6	10.8	11.8	10.8	10.6	21.0	13.0	13.0	12.0						
	Impact	2.5	2.3	2.6	2.3	2.5	2.3	2.6	2.6	2.5						
	Total	33.3	31.1	31.8	31.1	33.3	54.5	55.6	55.6	53.5						
	Section Modulus	121	121	121	121	121	232	232	232	232						

Table of Moments and Reactions

Spans M4 thru M6

Location		.4 Span M4	.5 Span M5	Pier M4	Pier M3	Pier M4
		Moment			Reaction	
Dead Load	Primary	582	1430	3890	94	342
Load	Secondary	95	37	127	5	—
Live Load	Primary	998	980	1120	45	85
Load	Secondary	54	22	37	3	—
Impact		214	180	244	11	18
Centrifugal force		106	104	132	6	10
Total		2949	2703	5558	167	455
Section Modulus		2200	2200	4240	—	—
Torque Loading	Dead Load	22.5	22.0	42.0		
	Live Load	13.5	13.3	13.6		
	Impact	3.0	2.7	2.9		
	Total	39.0	38.0	58.5		
	Section Modulus	121	121	242		

Moments in Foot-Kips
Reactions in Kips
Section Modulus - In.³

DESIGNED BY AJA
DRAWN BY JM
CHECKED BY AJA
APPROVED BY KA

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

STRESS TABLES

POPLAR STREET BRIDGE APPROACHES
ROADWAY "C" AND RAMPS "M" & "S"

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

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

SHEET 123 OF 224

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I – 70	82–3HVB	ST CLAIR	289	159
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

Table of Moments and Reactions

For Girders - Spans ABCD, BII, CII and B27 (Simple Spans)

Loads	Span ABCD Girder LI-A		Span ABCD Girder LI-B		Span ABCD Girder LI-C		Span ABCD Girder LI-D		Spans BII & CII Girders L8 and L9		Span B27 Girders L8 and L9	
	Moment	Reaction	Moment	Reaction	Moment	Reaction	Moment	Reaction	Moment	Reaction	Moment	Reaction
Dead Load	550	198	617	97	969	92	1034	91	740	70	1082	103
Live Load	487	98	728	66	782	66	798	65	717	63	745	73
Impact	137	28	219	20	216	20	239	20	215	19	224	22
Total	4504	311	1964	183	1907	178	1907	176	1672	152	2051	198
Effect of Mod. of E	2601	—	178	—	1178	—	297	—	1070	—	1290	—

Floor Beams - Continuous Spans

		Moment	Reaction
36 WF 170	Dead Load	330	30
	Live Load	421	47
	Impact	125	14
	Total	960	91
	Section Modulus	390	—
36 WF 150	Dead Load	180	15
	Live Load	457	43
	Impact	133	13
	Total	760	71
	Section Modulus	303	—
33 WF 118	Dead Load	139	24
	Live Load	283	38
	Impact	85	11
	Total	357	72
	Section Modulus	309	—

18 WF 50 - Stringer

	Moment
Dead Load	19
Live Load	94
Impact	28
Total	129

SPAN B, II, C
SIMPLE SPAN COMPOSITE BEAM

TABLE OF MOMENTS AND SHEARS - INTERIOR BEAMS

	STEEL SECTION MAX. MOMENT
D.L.	[illegible]
	COMPOSITE SECTION MAX. MOMENT
S.D.L.	49
L.L.	603
Imp	120
Total	772
	SHEAR
	Supp't ¼ point ½ point
S.D.L.	8 4 -
L.L.	[illegible]
Imp	2 1 1
Total	22 15 12

PROPERTIES

Steel Section

Is	45[illegible]
Sts	6[illegible]
Sas	6[illegible]

Composite Section

Ic	8[illegible]
Stc	1[illegible]
Sbc	4[illegible]

SPAN B27
SIMPLE SPAN COMPOSITE BEAM

TABLE OF MOMENTS AND SHEARS - INTERIOR BEAMS

	STEEL SECTION MAX. MOMENT
D.L.	1507
	COMPOSITE SECTION MAX. MOMENT
S.D.L.	302
L.L.	2398
Imp	563
Total	3004
	SHEAR
	Supp't ¼ point ½ point
S.D.L.	5 - -
L.L.	48 36 23
Imp.	10 7 5
Total	63 50 28

PROPERTIES

Steel Section

Is	28126
Sts	2.4
Sas	2.3

Composite Section

Ic	5.336
Stc	2.143
Sbc	22.73

SPAN ABCD
SIMPLE SPAN COMPOSITE BEAM

TABLE OF MOMENTS AND SHEARS - BEAM A1

	STEEL SECTION MAX. MOMENT
D.L.	2131
	COMPOSITE SECTION MAX. MOMENT
S.D.L.	432
L.L.	660
Imp	135
Total	1127
	SHEAR
	Supp't ¼ point ½ point
S.D.L.	[illegible]
L.L.	23 17 11
Imp.	5 4 3
Total	39 27 14

PROPERTIES

Steel Section

Is	66533
Sts	1507
Sas	2157

Composite Section

Ic	169865
Stc	5279
Sbc	23930

SPAN ABCD
SIMPLE SPAN COMPOSITE BEAM

TABLE OF MOMENTS AND SHEARS - BEAMS A2, A3, A4

	STEEL SECTION MAX. MOMENT
D.L.	1774
	COMPOSITE SECTION MAX. MOMENT
S.D.L.	322
L.L.	1455
Imp	301
Total	2078
	SHEAR
	Supp't ¼ point ½ point
S.D.L.	11 8 -
L.L.	53 37 23
Imp.	11 10 8
Total	75 53 31

PROPERTIES

Steel Section

Is	66533
Sts	1507
Sas	2157

Composite Section

Ic	143310
Stc	6695
Sbc	2685

Moments are in Ft.-Kips
Reactions and Shears are in Kips

D.L. = Dead load
S.D.L. = Superimposed dead load acting on composite section
L.L. = Live load
Imp. = Impact
Is = Moment of inertia steel sec.
Sts = Sec. Mod. top steel section
Sas = Sec. Mod. bott. steel section
Ic = Moment of inertia comp. sec.
Stc = Sec. Mod. top comp. sec.
Sac = Sec. Mod. bott. comp. sec.

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

STRESS TABLES

SPANS ABCD, BII, CII AND B27

POPLAR STREET BRIDGE APPROACHES
ROADWAYS "A", "B" AND "C"

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

H. W. LOCHNER INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 124 OF 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82-3HVB	ST. CLAIR	289	180
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

SIMPLE SPAN COMPOSITE BEAM

TABLE OF MOMENTS AND SHEARS - BEAMS A5 & A6

	STEEL SECTION MAX. MOMENT
D.L.	1664
	COMPOSITE SECTION MAX. MOMENT
S.D.L.	305
L.L.	1412
Imp	295
Total	2012

	SHEAR Supp't	¼ point	½ point
S.D.L.	11	8	—
L.L.	53	37	24
Imp.	11	10	7
Total	75	52	31

PROPERTIES

Steel Section	
Is	58746
Sts	1306
Sbs	1382
Composite Section	
Ic	134450
Stc	6399
Sbc	2534

SIMPLE SPAN COMPOSITE BEAM

TABLE OF MOMENTS AND SHEARS - BEAM A7

	STEEL SECTION MAX. MOMENT
D.L.	1711
	COMPOSITE SECTION MAX. MOMENT
S.D.L.	266
L.L.	609
Imp	128
Total	1003

	SHEAR Supp't	¼ point	½ point
S.D.L.	10	8	—
L.L.	23	16	10
Imp.	5	5	3
Total	38	26	13

PROPERTIES

Steel Section	
Is	58746
Sts	1306
Sbs	1382
Composite Section	
Ic	164000
Stc	10950
Sbc	2750

SIMPLE SPAN COMPOSITE BEAM

TABLE OF MOMENTS AND SHEARS - BEAM B1

	STEEL SECTION MAX. MOMENT
D.L.	2395
	COMPOSITE SECTION MAX. MOMENT
S.D.L.	169
L.L.	430
Imp	91
Total	690

	SHEAR Supp't	¼ point	½ point
S.D.L.	6	3	—
L.L.	17	11	8
Imp.	4	4	2
Total	27	18	10

PROPERTIES

Steel Section	
Is	62866
Sts	1554
Sbs	1833
Composite Section	
Ic	171068
Stc	20450
Sbc	2580

SIMPLE SPAN COMPOSITE BEAM

TABLE OF MOMENTS AND SHEARS - BEAMS B2, B3, B4

	STEEL SECTION MAX. MOMENT
D.L.	1442
	COMPOSITE SECTION MAX. MOMENT
S.D.L.	242
L.L.	239
Imp	264
Total	745

	SHEAR Supp't	¼ point	½ point
S.D.L.	9	4	—
L.L.	48	33	21
Imp.	10	10	7
Total	67	47	28

PROPERTIES

Steel Section	
Is	62869
Sts	1123
Sbs	1136
Composite Section	
Ic	99338
Stc	5693
Sbc	2193

SIMPLE SPAN COMPOSITE BEAM

TABLE OF MOMENTS AND SHEARS - BEAM B5

	STEEL SECTION MAX. MOMENT
D.L.	1226
	COMPOSITE SECTION MAX. MOMENT
S.D.L.	134
L.L.	612
Imp	132
Total	898

	SHEAR Supp't	¼ point	½ point
S.D.L.	6	3	—
L.L.	25	17	11
Imp.	5	5	3
Total	36	25	14

PROPERTIES

Steel Section	
Is	62869
Sts	1554
Sbs	1833
Composite Section	
Ic	132363
Stc	7320
Sbc	2390

SIMPLE SPAN COMPOSITE BEAM

TABLE OF MOMENTS AND SHEARS - BEAMS C1 & C1'

	STEEL SECTION MAX. MOMENT
D.L.	1569
	COMPOSITE SECTION MAX. MOMENT
S.D.L.	220
L.L.	605
Imp	132
Total	957

	SHEAR Supp't	¼ point	½ point
S.D.L.	8	—	—
L.L.	25	18	11
Imp	5	4	3
Total	38	26	14

PROPERTIES

Steel Section	
Is	47478
Sts	1079
Sbs	1581
Composite Section	
Ic	146800
Stc	7330
Sbc	2265

SIMPLE SPAN COMPOSITE BEAM

TABLE OF MOMENTS AND SHEARS - BEAMS C2, C3, C4

	STEEL SECTION MAX. MOMENT
D.L.	1302
	COMPOSITE SECTION MAX. MOMENT
S.D.L.	216
L.L.	1197
Imp	261
Total	674

	SHEAR Supp't	¼ point	½ point
S.D.L.	8	8	—
L.L.	39	35	27
Imp.	1	10	7
Total	68	49	28

PROPERTIES

Steel Section	
Is	43475
Sts	1044
Sbs	1616
Composite Section	
Ic	95616
Stc	5604
Sbc	2069

SIMPLE SPAN COMPOSITE BEAM

TABLE OF MOMENTS AND SHEARS - BEAMS C5, D1

	STEEL SECTION MAX. MOMENT
D.L.	1026
	COMPOSITE SECTION MAX. MOMENT
S.D.L.	549
L.L.	1143
Imp	254
Total	1946

	SHEAR Supp't	¼ point	½ point
S.D.L.	22	11	—
L.L.	49	34	22
Imp.	11	10	6
Total	82	55	28

PROPERTIES

Steel Section	
Is	47412
Sts	1079
Sbs	1581
Composite Section	
Ic	131452
Stc	6640
Sbc	2240

SIMPLE SPAN COMPOSITE BEAM

TABLE OF MOMENTS AND SHEARS - BEAMS D2, D3, D4

	STEEL SECTION MAX. MOMENT
D.L.	[illegible]
	COMPOSITE SECTION MAX. MOMENT
S.D.L.	228
L.L.	1161
Imp	260
Total	1649

	SHEAR Supp't	¼ point	½ point
S.D.L.	9	4	—
L.L.	51	36	22
Imp.	11	10	7
Total	71	50	29

PROPERTIES

Steel Section	
Is	36105
Sts	945
Sbs	1494
Composite Section	
Ic	89669
Stc	5513
Sbc	945

SIMPLE SPAN COMPOSITE BEAM

TABLE OF MOMENTS AND SHEARS - BEAM D5

	STEEL SECTION MAX. MOMENT
D.L.	12,72
	COMPOSITE SECTION MAX. MOMENT
S.D.L.	209
L.L.	510
Imp	116
Total	835

	SHEAR Supp't	¼ point	½ point
S.D.L.	9	5	—
L.L.	23	17	11
Imp.	6	5	2
Total	38	27	13

PROPERTIES

Steel Section	
Is	41374
Sts	595
Sbs	1593
Composite Section	
Ic	135801
Stc	9330
Sbc	2270

EME
IM
HJ
KA

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

STRESS TABLES
SPAN ABCD

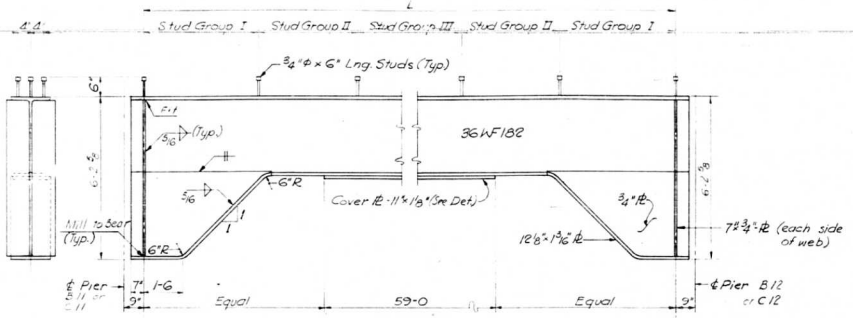
POPLAR STREET BRIDGE APPROACHES
ROADWAYS "A", "B", "C" AND "D"

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

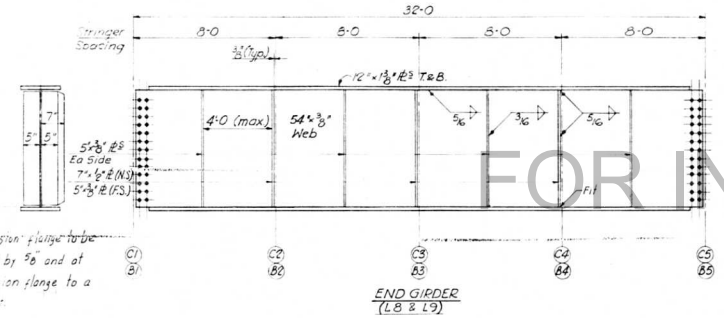
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 125 of 241

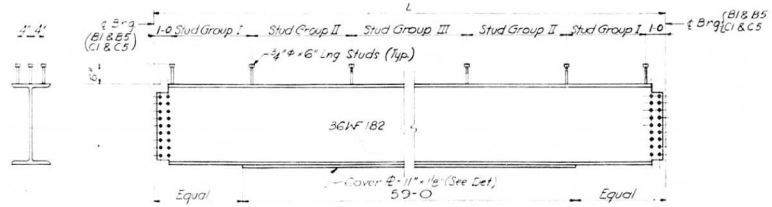
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I.–70	82–3HVB	ST. CLAIR	289	161
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



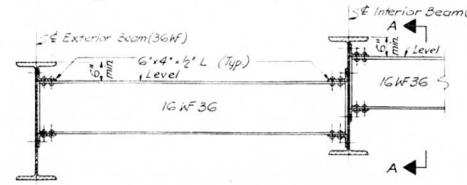
EXTERIOR BEAM
(B1 - B5 & C1 - C5)



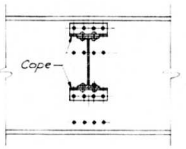
END GIRDER
(L8 & L9)



INTERIOR BEAM
(B2-B3-B4 & C2-C3-C4)

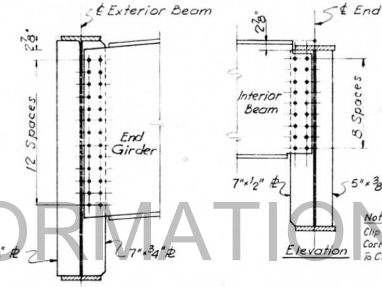


Typ. Connection for Interior Diaphragms D4



SECTION A-A

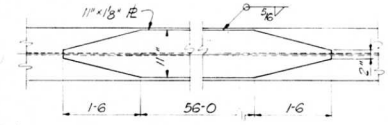
DIAPHRAGM DETAILS



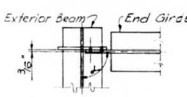
Elevation

Elevation

Note:
Clip All Stiffeners And Connection Plates 3/4 x 3/4 At Corners To Clear Welding Of Flange To Web And To Clear Beam Fillets.

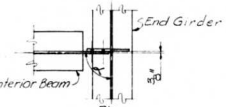


COVER PLATE DETAIL



Plan

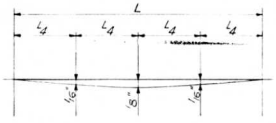
END GIRDER TO EXTERIOR BEAM CONNECTION



Plan

INTERIOR BEAM TO END GIRDER CONNECTION

Note: For Angle ∠ see Framing Plans Sh. No. 88



DEAD LOAD DEFLECTION DIAGRAM FOR END GIRDER

Note:
For Exp. Device Detail see Sh. No. 132
For Framing Plan see Sh. No. 88

BEAM LENGTH & SHEAR CONNECTOR SPACING TABLE				
BEAM	LENGTH	GROUP I	GROUP II	GROUP III
B1 & C1	74-9 3/16"	30@4 3/4"	22@6"	41@8"±
B2 & C2	75-1 7/8"	30@4 3/4"	22@6"	41@8"±
B3 & C3	75-5 15/16"	30@4 3/4"	22@6"	42@8"±
B4 & C4	75-10"	30@4 3/4"	22@6"	42@8"±
B5 & C5	76-2 1/16"	30@4 3/4"	22@6"	46@8"±

Est. Wt. Stud Shear Connectors - Span B11 = 946 Lbs.
Span C11 = 946 Lbs.

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

STEEL DETAILS

SPANS B11 AND C11

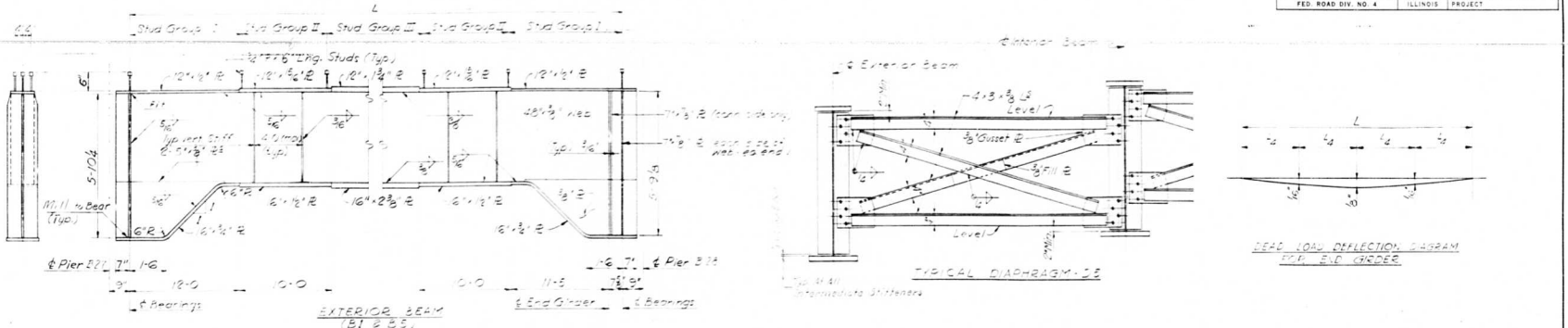
POPLAR STREET BRIDGE APPROACHES
ROADWAYS "B" AND "C"

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

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

SHEET 126 OF 241

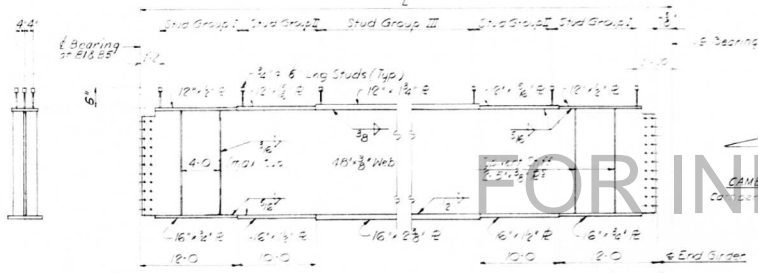
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I – 70	82–3HVB	ST. CLAIR	289	162
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



EXTERIOR BEAM (B1 & B5)

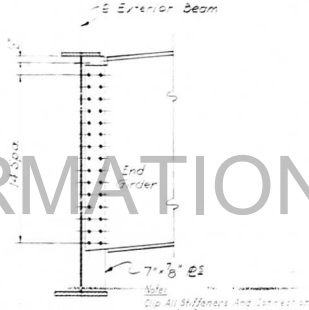
TYPICAL DIAPHRAGM - B

DEAD LOAD DEFLECTION DIAGRAM FOR END GIRDER



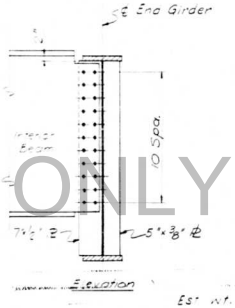
INTERIOR BEAM (B2, B3 & B4)

CAMBER DIAGRAM
Camber at Beam ℄ = 2.5"



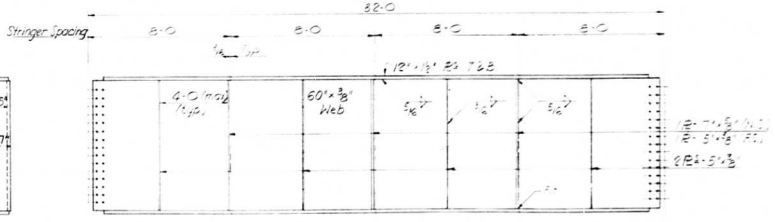
Elevation

Note:
Clip All Stiffeners And Connection Plates 3/4" & 7/8" At Corners To Clear Fillet Of Flange To Web.

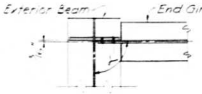


Elevation

Est. Wt. Stud Shear Connectors = 2355 Lbs



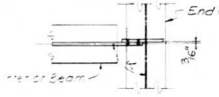
END GIRDER (L18 & L19)



Plan

END GIRDER TO EXTERIOR BEAM CONNECTION

Note: For Angle see Framing Plans Sht No 90



Plan

INTERIOR BEAM TO END GIRDER CONNECTION

Note:
For Exp. Device Detail, see Sheet No. 132
For Framing Plan See Sheet No. 90

BEAM LENGTH & SHEAR CONNECTOR SPACING TABLE				
BEAM	LENGTH	GROUP I	GROUP II	GROUP III
B1	27'-6 1/2" @ 2 1/2"	17 @ 7"	68" @ 4"	
B2	28'-0" @ 2 1/2"	17 @ 7"	66" @ 4"	
B3	28'-5 1/2" @ 2 1/2"	17 @ 7"	66" @ 4"	
B4	28'-11 1/2" @ 2 1/2"	17 @ 7"	67" @ 4"	
B5	28'-5 1/2" @ 2 1/2"	17 @ 7"	71" @ 4"	

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

STEEL DETAILS
SPAN B27

POPLAR STREET BRIDGE APPROACHES
ROADWAY "B"

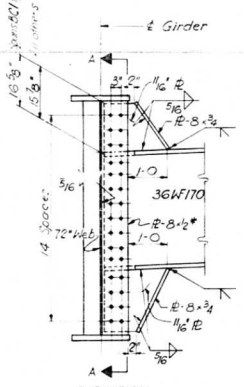
F. A. I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

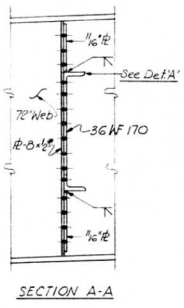
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 127 OF 241

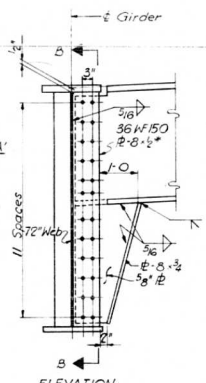
BY RMR
Y. Geo. S. P.
BY AS
BY SP

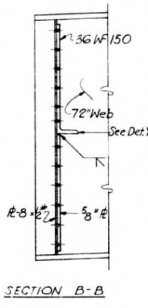
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	163
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



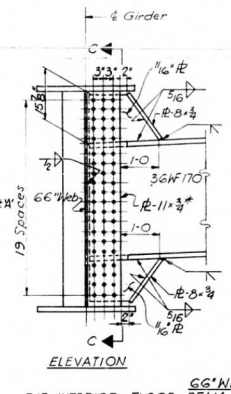


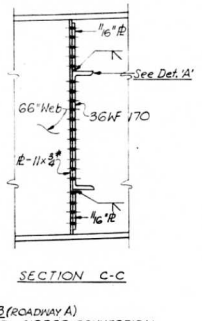
72" WEB (ROADWAY B&C)
TYP. INTERIOR FLOOR BEAM TO GIRDER CONNECTION



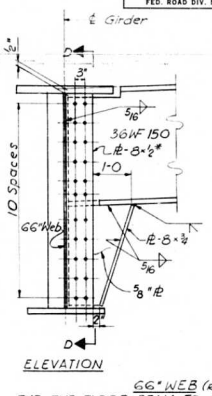


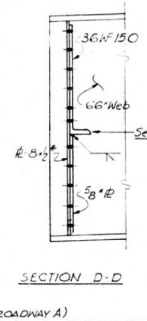
72" WEB (ROADWAY B&C)
TYP. END FLOOR BEAM TO GIRDER CONNECTION



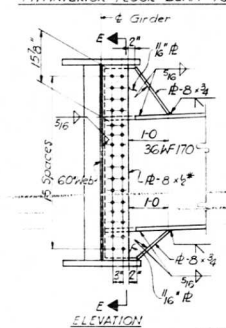


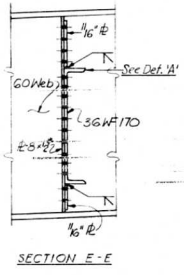
66" WEB (ROADWAY A)
TYP. INTERIOR FLOOR BEAM TO GIRDER CONNECTION



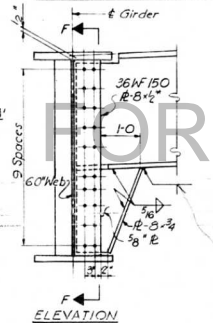


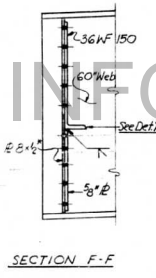
66" WEB (ROADWAY A)
TYP. END FLOOR BEAM TO GIRDER CONNECTION



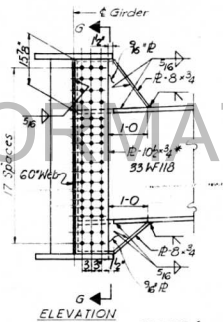


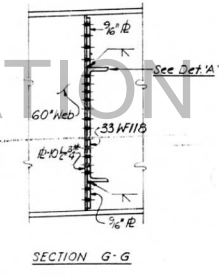
60" WEB (SPANS C26-C30)
TYP. INTERIOR FLOOR BEAM TO GIRDER CONNECTION



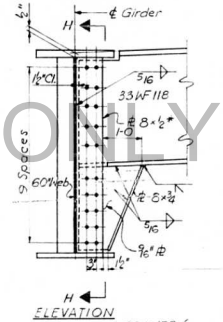


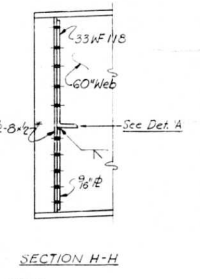
60" WEB (SPANS C26 C30)
TYP. END FLOOR BEAM TO GIRDER CONNECTION



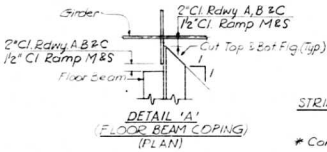


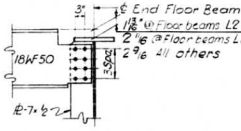
60" WEB (RAMPS M&S)
TYP. INTERIOR FLOOR BEAM TO GIRDER CONNECTION

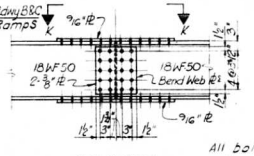




60" WEB (RAMPS M&S)
TYP. END FLOOR BEAM TO GIRDER CONNECTION

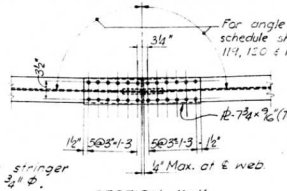






All bolts for stringer splice to be ¾" Ø.

STRINGER SPLICE



Notes:
For welding of connection plates to Girder Flanges see Notes A, B & C, sheet No. 96

* Connection plate sizes are as shown except where floor beam connects to bearing stiffeners. see girder details

DESIGNED BY R.M.R.
DRAWN BY Geo. S. F.
CHECKED BY F.
QUANTITIES VERIFIED BY K.A.

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

STEEL FRAMING DETAILS

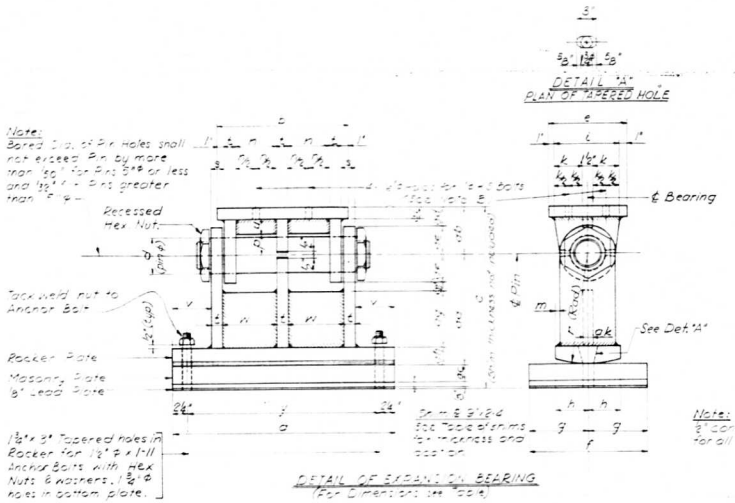
POPLAR STREET BRIDGE APPROACHES
ROADWAYS "A", "B" AND "C"
RAMPS "M" AND "S"

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

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

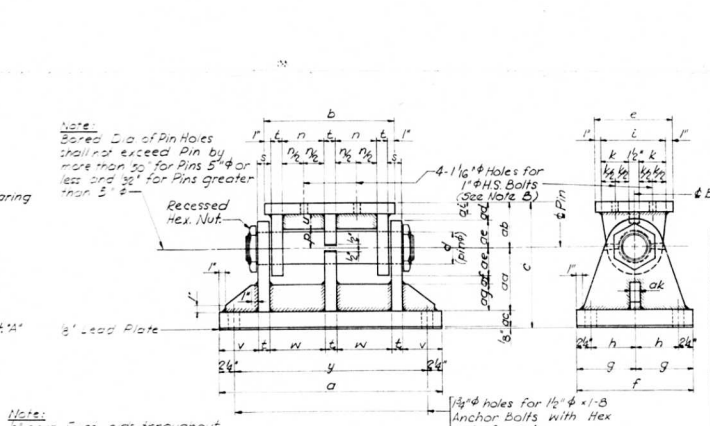
SHEET 128 of 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.–70	82–3HVB	ST. CLAIR	289	164
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



DETAIL OF EXPANSION BEARING
(For Dimensions see Table)

DETAIL "A"
PLAN OF BORED HOLE



Note:
8" Cont. fillet weld throughout for all expansion & fixed bearings.

DETAIL OF FIXED BEARING
(For Dimensions see Table)

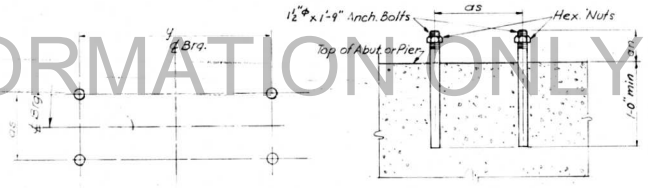
TABLE OF BEARING ASSEMBLY SHIMS

LOCATION	SPAN / PIER	BC5	B11	B14	B19	B22	
Girder	B1	3/8"	1/4"	1/8"	1/8"	1/8"	
	B2	3/8"	1/4"	1/8"	1/8"	1/8"	
LOCATION	SPAN / PIER	BC5	BC8	C11	C14	C17	C21
Girder	C1	3/8"	1/8"	1/4"	1/8"	1/8"	1/8"
	C2	3/8"	3/8"	1/4"	1/8"	1/8"	1/8"
LOCATION	SPAN / PIER	A25	A28	A29			
Girder	A1	1/2"	1/2"				
	A2	1/2"	1/2"				

LOCATION	SPAN / PIER	M2	M6
Girder	M1	1/8"	1/8"
	M2	1/8"	1/8"

LOCATION	SPAN / PIER	S11	S15
Girder	S1	3/8"	1/4"
	S2	3/8"	1/4"

ANCHOR BOLT LOCATION FOR EXPANSION BEARING



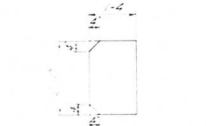
ANCHOR BOLT LOCATION FOR FIXED BEARING

Bearings and Anchorage

The location of the anchor bolts and vertical alignment of the expansion bearings shall be adjusted to the temperature at the time of erection. See Art. 514.01(f).

Anchor bolts shall be grouted into drilled holes after bearings are in place, or bolts at fixed pier may be built into the masonry.

NOTE B:
The 1" ϕ H.S. Bolts to be Bearing Type. Threads to be excluded from the contact surfaces.



MASONRY CUT DETAIL

* Masonry cut detail assumed to be used for Bearing E2 at Bent 4, Girder Girders A1 – Span ABCD, 1 required

TABLE OF BEARING & ANCHOR BOLT ASSEMBLY DIMENSIONS

TYPE of BEARING	No. REQ'D	Dimension a	b	c	d	e	f	g	h	k	m	n	p	r	s	t	u	v	w	x	y	aa	ab	ac	ad	ae	af	ag	ah	ai	ak	am	an	ap	ar	as
E1	8	2'-0"	5'-8 7/8"	5'-1"	1'-10"	6'-1"	5'-9"	2'-9"	2'-3"	0'-8"	6 3/8"	3"	10"	2"	1/4"	1/4"	4 5/8"	6 1/2"	10"	6 3/8"	2 3/4"	1/4"	2 3/8"	2"	1/4"	1/4"	2 3/8"	7"	1-10							
E2	2	2'-0"	5'-8 7/8"	5'-1"	1'-10"	6'-1"	5'-9"	2'-9"	2'-3"	0'-8"	6 3/8"	3"	10"	2"	1/4"	1/4"	5"	6 1/2"	11-5	6 3/8"	2 3/4"	1/4"	2 3/8"	2"	1/4"	1/4"	2 3/8"	9"	2-0							
E3	44	2'-0"	5'-8 7/8"	5'-1"	1'-10"	6'-1"	5'-9"	2'-9"	2'-3"	0'-8"	6 3/8"	3"	10"	2"	1/4"	1/4"	5"	6 1/2"	11-5	7"	3"	1/4"	2 3/8"	2"	1/4"	1/4"	2 3/8"	9"	2-0							
E4	2	2'-0"	6'-0 3/8"	5'-1"	1'-10"	6'-1"	5'-9"	2'-9"	2'-3"	0'-8"	6 3/8"	3"	10"	2"	1/4"	1/4"	5"	6 1/2"	11-5	7"	3"	1/4"	2 3/8"	2"	1/4"	1/4"	2 3/8"	9"	2-0							
E5	80	2'-0"	6'-0 3/8"	5'-1"	1'-10"	6'-1"	5'-9"	2'-9"	2'-3"	0'-8"	6 3/8"	3"	10"	2"	1/4"	1/4"	5"	6 1/2"	11-5	7"	3"	1/4"	2 3/8"	2"	1/4"	1/4"	2 3/8"	7"	1-10							
F1	8	2'-0"	5'-8 7/8"	5'-1"	1'-10"	6'-1"	5'-9"	2'-9"	2'-3"	0'-8"	6 3/8"	3"		2"	1/4"	1/4"	4 5/8"	6 1/2"	10"	6 3/8"	2 3/4"	1/4"	2 3/8"	2"		1/4"	2 3/8"	4"	1-0	A1	1'-2"				
F2	8	2'-0"	5'-8 7/8"	5'-1"	1'-10"	6'-1"	5'-9"	2'-9"	2'-3"	0'-8"	6 3/8"	3"		2"	1/4"	1/4"	5"	6 1/2"	11-5	6 3/8"	2 3/4"	1/4"	2 3/8"	2"		1/4"	2 3/8"	5"	1-8	E5	1'-11"				
F3	44	2'-0"	5'-8 7/8"	5'-1"	1'-10"	6'-1"	5'-9"	2'-9"	2'-3"	0'-8"	6 3/8"	3"		2"	1/4"	1/4"	5"	6 1/2"	11-5	7"	3"	1/4"	2 3/8"	2"		1/4"	2 3/8"	9"	2-0	A1	1'-2"				
F4	4	2'-0"	6'-0 3/8"	5'-1"	1'-10"	6'-1"	5'-9"	2'-9"	2'-3"	0'-8"	6 3/8"	3"		2"	1/4"	1/4"	5"	6 1/2"	11-5	7"	3"	1/4"	2 3/8"	2"		1/4"	2 3/8"	5"	1-8	E5	1'-11"				
F5	4	2'-0"	6'-0 3/8"	5'-1"	1'-10"	6'-1"	5'-9"	2'-9"	2'-3"	0'-8"	6 3/8"	3"		2"	1/4"	1/4"	5"	6 1/2"	11-5	7"	3"	1/4"	2 3/8"	2"		1/4"	2 3/8"	7"	1-10	A1	1'-2"				

* Not Applicable

TABLE OF ADDITIONAL ANCHOR BOLT ASSEMBLIES

LOCATION SPAN / PIER	BEARING TYPE	NO. REQUIRED
A1 – D1	E1	2
D1 – A24	E5	2
A25 – A29	E5	2
A29 – M3	E5	2
M3 – M7	E5	2
M6 – S10	E5	2
S10 – S15	E5	2
S15 – D17	F2	2
D17 – G2	F3	2

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

BEARINGS

POPLAR STREET BRIDGE APPROACHES
ROADWAYS "A", "B", "C" AND "D"
RAMPS "M" AND "S"

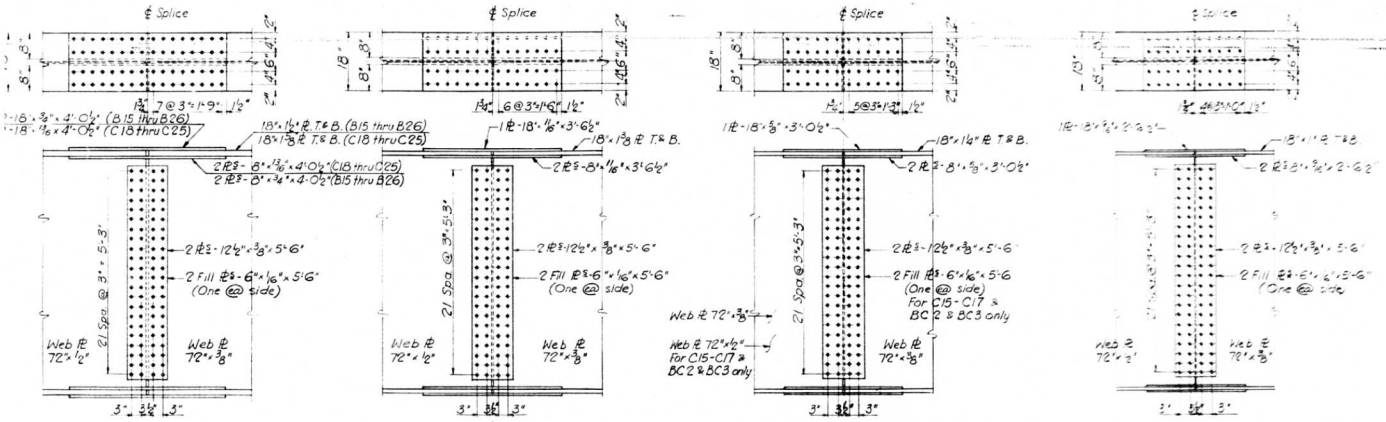
F. A. I. RT. 70 ST. CLAIR CO. SECTION 82–3HVB

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

SHEET 129 OF 241

SIGNED BY EMR
DRAWN BY Geo. S.D.
CHECKED BY AS
APPROVED BY CA

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I-70	82-3H+B	ST. CLAIR	284	65
FED. ROAD DIV. NO. 5	ILLINOIS	PROJECT		

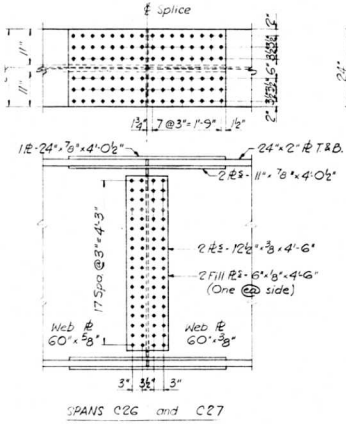


SPANS C18 through C21
SPANS C22 through C25
SPANS B15 through B18
SPANS B19 through B22
& B23 through B26

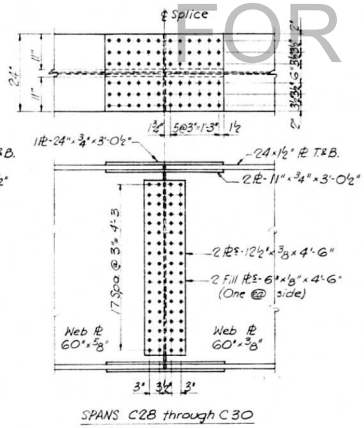
SPANS BC1 and BC4

SPANS BC2 through BC3
SPANS BC5 through BC7
SPANS B8 through B10
SPANS C8 through C10
& C15 through C17

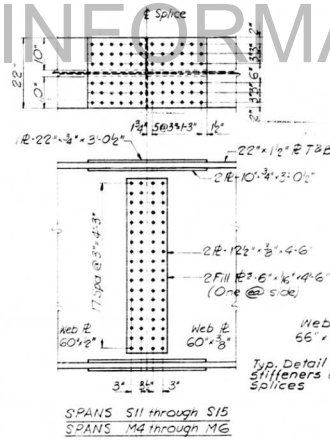
SPANS B11 through B14
SPANS C11 through C14
& B27 through B30



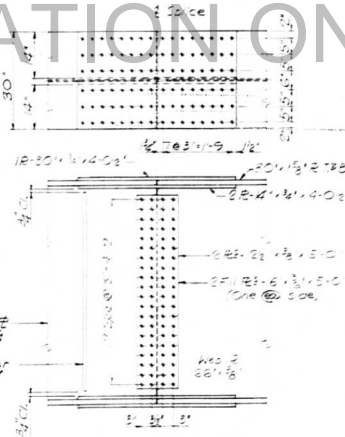
SPANS C26 and C27



SPANS C28 through C30



SPANS S11 through S15
SPANS M4 through M6



SPANS A25 thru A28

Typ. Detail for Stiffeners at Splices

Note:
Typ. Detail of Stiffeners at Splices shown on Splice Detail for Spans A25 thru A28

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

GIRDER SPLICES

POPLAR STREET BRIDGE APPROACHES
ROADWAYS "A", "B" AND "C"
RAMPS "M" AND "S"

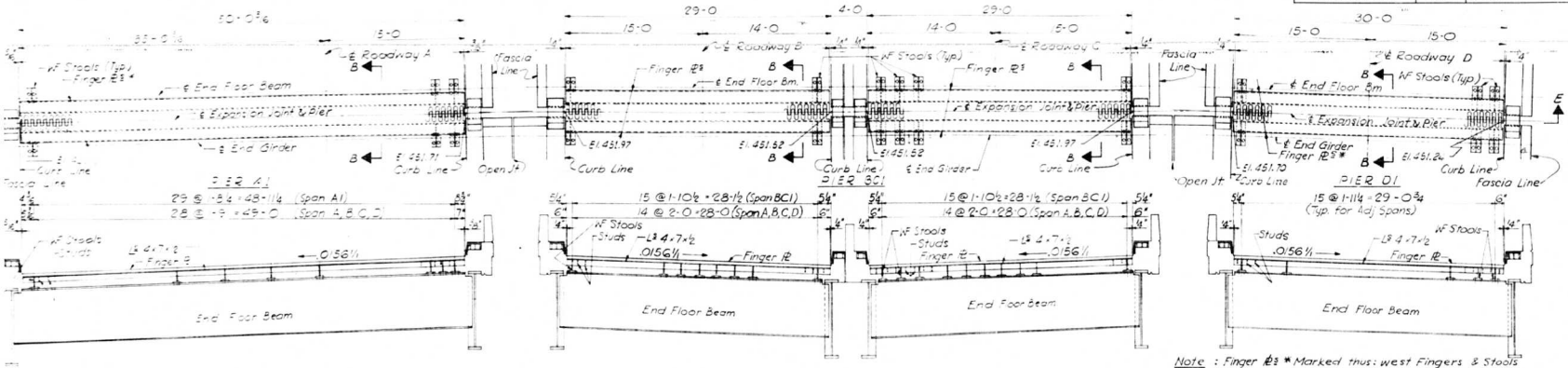
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3H+B

H.W. LOCHNER INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 30 OF 24

D BY SB
BY Geo. S. P.
D BY AS
ED BY KA

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	166
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	



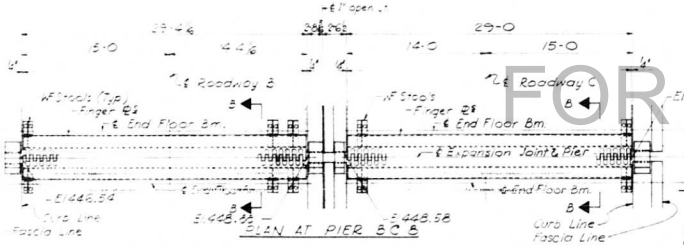
SECTION E-E

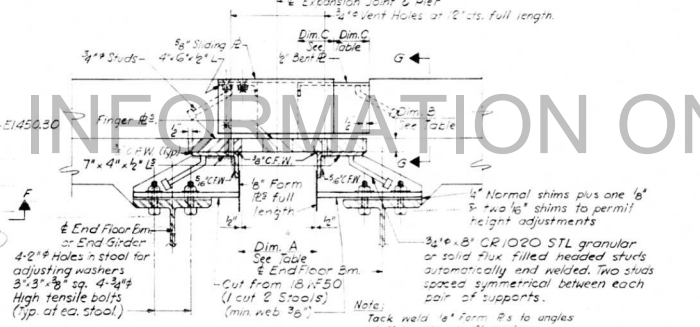
Note : Finger #8 * Marked thus: west Fingers & Stools To be placed as required, East Finger & Stools to be stored in shop until they are needed, see Special Provisions

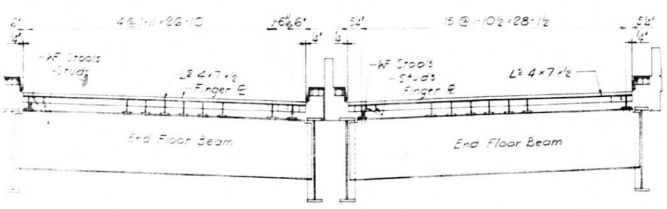
- EXPANSION DEVICE TABLE -

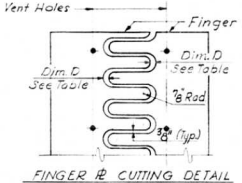
PIER No	Dim. A (at 50°F)	Dim. B (Finger pl. thickness)	Dim. C (at 50°F)	Dim. D (at 50°F)
BC1	12"	1/2"	4"	3 1/2"
BC8	13"	1/2"	3 1/2"	3"
B 15	13 1/4"	2"	4 5/8"	4 1/8"
B 19	8 7/8"	1 1/8"	3"	2 3/8"
A 23	10 3/8"	2"	5 1/2"	4 7/8"
B 28	11"	1 1/2"	3"	2 1/2"
C 15	11 7/8"	1 3/8"	4"	3 3/8"
C 26	17 1/8"	2 1/2"	5 1/2"	5 1/8"
C 26	14 1/2"	2"	4 1/2"	4 1/4"
M 3	10"	1 1/8"	3"	2 1/2"
M 6	10 1/4"	1 1/8"	3 1/2"	3"
A 25	16 3/8"	2"	5 1/2"	4 7/8"
A 29	16 3/8"	2"	5 1/2"	4 7/8"
S 10	11 1/2"	1 1/2"	3 1/2"	3 1/4"
S 15	12 1/4"	1 1/2"	4"	3 1/2"
A1	12 1/4"	1 1/2"	4"	3 1/2"
D1	12 1/4"	1 1/2"	4"	3 1/2"

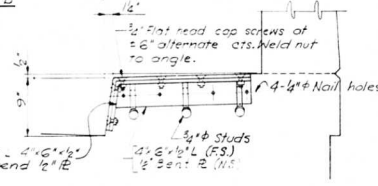
Temperature range = -30°F to 130°F with 50°F = Normal.











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

EXPANSION DEVICE

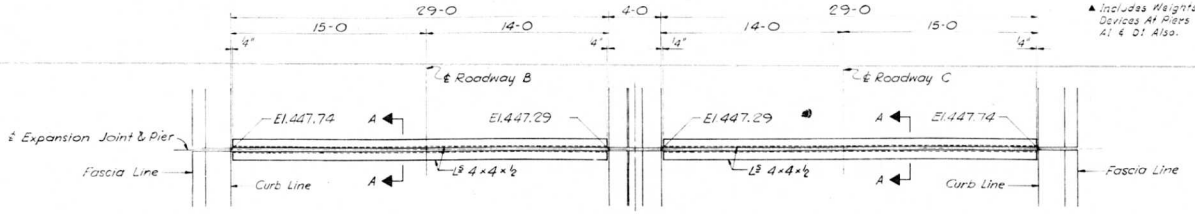
POPLAR STREET BRIDGE APPROACHES
ROADWAYS "A", "B", "C" AND "D"
RAMPS "M" AND "S"

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

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

SHEET 131 of 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.–70	82–3HVB	ST. CLAIR	289	167
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



PLAN @ PIER BC5

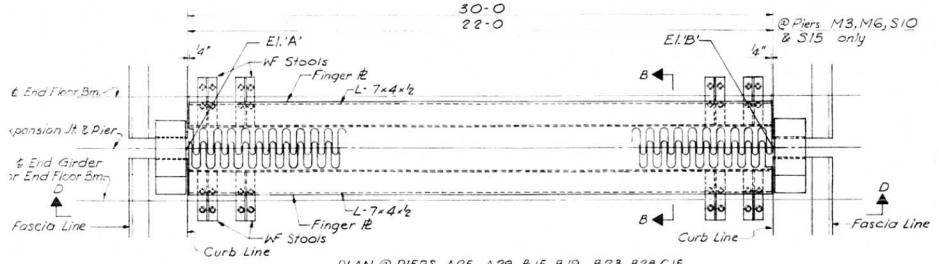
▲ Includes Weights of Devices At Piers A1 & D1 Also.

TABLE of ELEVATIONS & WEIGHTS of EXPANSION DEVICE

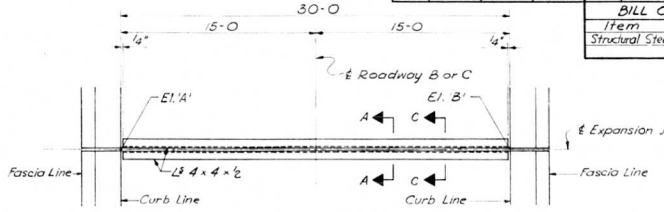
PIER	El. A	El. B	WEIGHT	PIER	El. A	El. B	WEIGHT
A25	467.43	469.84	9,685#	C18	453.55	455.96	834#
A29	467.14	469.54	9,685	C22	454.15	456.56	9,807
▲BC1	See	Plan	38,005	C26	451.01	453.41	9,399
BC5	See	Plan	1,618	M3	474.72	476.48	5949
BC8	See	Plan	15,318	M6	475.94	477.70	5949
B11	447.90	450.30	834	S10	481.76	483.52	5984
B12	448.32	450.72	834	S15	494.45	496.21	6,060#
B15	449.92	452.32	9,315				
B19	452.12	454.52	7,138				
B23	451.85	454.25	9,402				
B27	448.06	450.46	834	Abut.			
B28	446.53	448.93	7,198	B31	442.24	444.64	834#
C11	449.82	452.22	834	C31	443.57	445.97	834#
C12	450.24	452.64	834				
C18	451.83	454.23	8,046#				

BILL OF MATERIAL

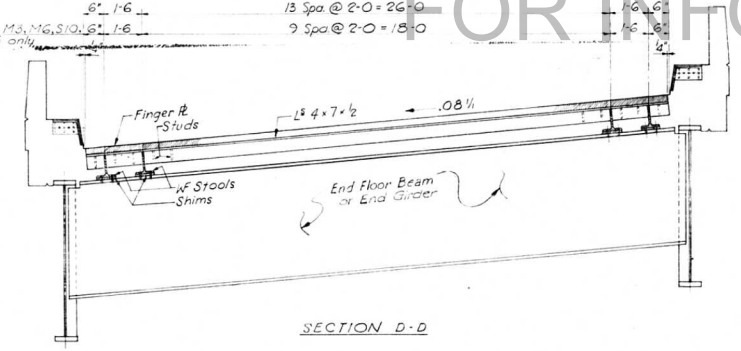
Item	Unit	Total
Structural Steel	lbs.	165,470#



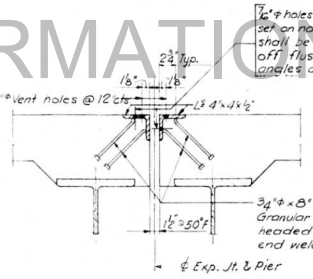
PLAN @ PIERS A25, A29, B15, B19, B23, B28, C15, C22, C26, M3, M6, S10, & S15



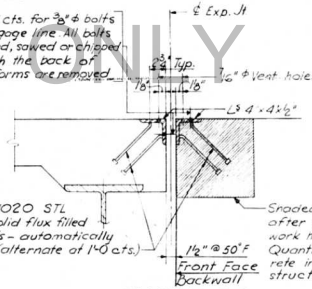
PLAN @ PIERS B11, B12, B27, C11, C12, C18 & ABUTMENTS B31 & C31



SECTION D-D



SECTION A-A at Piers



SECTION C-C at Abutments

Notes:
For Section B-B and Expansion Device Table see Sh. No. 131. At Piers A25 - A29 - M3 - M6 - S10 & S15 only the Finger ℓ's & Stools that can be placed immediately shall be shipped; the Future portions shall be stored in shop until they are needed, see Special Provisions.

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

EXPANSION DEVICE

POPLAR STREET BRIDGE APPROACHES
ROADWAYS "A", "B" AND "C"
RAMPS "M" AND "S"

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

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

SHEET 132 of 241

ED BY RMR
BY Geo. S.P.
ED BY AS
IED BY KA

ROADWAY A SHIMS

Bm. No.	Detail A				Detail B				Detail C			
	t1	t2	t3	t4	t1	t2	t3	t4	t1	t2	t3	t4
Thru 4	3/8	13/16	13/16	1/2	Same as detail A				Same as detail A			
5 Thru 8	1/8	1 1/16	3/16	1 7/16								
9 Thru 12	9/16	1 1/8	3/4	1 3/16								
13 Thru 16	5/8	1/4	5/8	1/4								
17 Thru 20	3/4	1 5/16	1/2	1 1/8								
21 Thru 24	13/16	1 7/16	7/16	1 1/16								
25 Thru 27	15/16	1 9/16	5/16	5/8								

ROADWAY B SHIMS

Fl. Bm. No.	Detail A				Detail B				Detail C			
	t1	t2	t3	t4	t1	t2	t3	t4	t1	t2	t3	t4
Thru 6	1/8	1/4	5/8	3/4	Same as detail A				Same as detail A			
7 Thru 12	1	1 1/8	3/4	7/8								
13 Thru 18	7/8	1	7/8	1								
19 Thru 21	13/16	15/16	15/16	1 1/16								
22	15/16	1	7/8	15/16	7/8	15/16	15/16	1	7/8	15/16	15/16	1
23	15/16	1 5/16	15/16	15/16	15/16	1 5/16	1 5/16	1 5/16	7/8	7/8	1	1
24	1	1 5/16	1 5/16	7/8	1 5/16	7/8	1	15/16	1 5/16	7/8	1	1 5/16
25	1	1 5/16	1 5/16	7/8	1	7/8	1	7/8	1 5/16	1 3/16	1 1/16	1 5/16
26	1 1/16	7/8	1	1 3/16	1	7/8	1	7/8	1	1 3/16	1 1/16	7/8
27	1 1/16	7/8	1	1 3/16	1 1/16	1 3/16	1 1/16	1 3/16	1	1 3/16	1 1/16	7/8
28	1 1/8	1 3/16	1 1/16	1 1/4	1 1/16	1 3/16	1 1/16	1 3/16	1 1/16	1 1/4	1 1/8	1 3/16
29	1 1/8	1 3/16	1 1/16	1 1/4	1 1/8	1 1/4	1 1/8	1 1/4	1 1/16	1 1/4	1 1/8	1 3/16
30	1 3/16	1 1/4	1 1/8	1 1/16	1 1/8	1 1/4	1 1/8	1 1/4	1 1/8	1 1/16	1 3/16	1 1/4
31	1 3/16	1 1/16	1 1/16	1 1/8	1 3/16	1 1/16	1 3/16	1 1/16	1 1/8	1 1/16	1 3/16	1 1/4
32	1 1/4	1 1/16	1 1/16	1 1/8	1 1/4	1 1/16	1 1/16	1 1/16	1 1/8	1 1/16	1 1/4	1 1/8
33	1 1/4	1 1/8	1 1/16	1 1/16	1 1/4	1 1/8	1 1/16	1 1/16	1 1/16	1 1/8	1 1/4	1 1/16
34	1 1/4	1 1/8	1 1/16	1 1/16	1 1/4	1 1/8	1 1/16	1 1/16	1 1/16	1 1/8	1 1/4	1 1/16
35	1 1/4	1 1/8	1 1/16	1 1/16	1 1/4	1 1/8	1 1/16	1 1/16	1 1/16	1 1/8	1 1/4	1 1/16
36	1 3/16	1 1/8	1 1/16	1 1/16	1 1/8	1 1/8	1 1/16	1 1/16	1 1/8	1 1/16	1 3/16	1 1/16
37 Thru 75	1 3/16	1 1/8	1 1/16	1 1/16	Same as detail A				Same as detail A			
76 Thru 81	1 3/16	1 1/8	1 1/16	1 1/16								
82 Thru 87	1 3/16	1 1/8	1 1/4	1 1/16								
88 Thru 93	1 1/4	1 1/8	1 1/4	1 1/8								
94 Thru 96	1 1/4	1 1/16	1 3/16	1 1/8								
97 Thru 102	1 1/16	1 1/16	1 3/16	1 1/8								
103 Thru 108	1 1/16	1 1/16	1 1/16	1 1/16								
109 Thru 114	1 1/16	1 1/4	1 1/8	1 1/16								
115 Thru 117	1 3/8	1 3/4	1 1/8	1 1/2								
118 Thru 121	1 3/8	1 3/4	1 1/8	1 1/2								
122 Thru 146	1 3/8	1 3/16	1 1/16	1 1/2								

ROADWAY C SHIMS

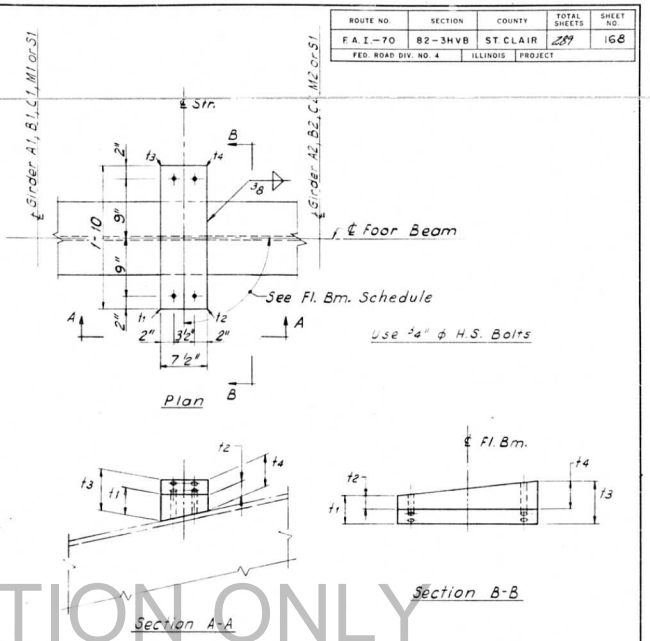
Fl. Bm. No.	Detail A				Detail B				Detail C			
	t1	t2	t3	t4	t1	t2	t3	t4	t1	t2	t3	t4
1 Thru 6	1/4	1 1/8	3/4	5/8	Same as detail A				Same as detail A			
7 Thru 12	1 1/8	1	7/8	3/4								
13 Thru 18	1	1 1/8	1	7/8								
19 Thru 21	5/16	1 3/16	1 1/16	1 5/16								
22 Thru 28	1 1/16	1 1/16	1 1/16	1 5/16								
29	1 1/16	1 3/16	1 1/16	1 15/16	7/8	3/4	1 1/8	1	7/8	1 1/16	1 3/16	1
30	1 5/16	3/4	1 1/8	1 15/16	1 5/16	1/16	1 3/16	1 5/16	7/8	1 1/16	1 3/16	1
31	1	1 1/16	1 3/16	7/8	1 5/16	1 1/16	1 3/16	1 5/16	1 5/16	5/8	1/4	1 5/16
32	1	1 1/16	1 3/16	7/8	1	5/8	1/4	7/8	1 5/16	5/8	1/4	1 5/16
33	1 1/16	5/8	1/4	1 3/16	1	5/8	1/4	7/8	1	9/16	1 5/16	7/8
34	1 1/8	5/8	1/4	1/2	1 1/16	9/16	1/4	3/16	1/16	9/16	1 5/16	1 3/16
35	1 1/8	5/8	1/4	3/4	1 1/8	9/16	1 5/16	3/4	1/16	9/16	1 5/16	1 3/16
36	1 3/16	9/16	1 5/16	1/16	1 1/8	9/16	1 5/16	3/4	1 1/8	1/2	1 3/8	3/4
37 Thru 75	1 3/16	9/16	1 5/16	1/16	Same as detail A				Same as detail A			
76 Thru 81	1 3/16	9/16	1 5/16	1/16								
82 Thru 87	1 3/16	5/8	1/4	1 1/16								
88 Thru 93	1/4	5/8	1/4	5/8								
94 Thru 96	1/4	1 1/16	1 3/16	5/8								
97 Thru 102	1 5/16	1 1/16	1 3/16	9/16								
103 Thru 108	1 5/16	1 1/16	1 1/16	9/16								
109 Thru 114	1 5/16	3/4	1 1/8	9/16								
115 Thru 117	1 3/8	3/4	1 1/8	1/2								
118 Thru 121	1 3/8	3/4	1 1/8	1/2								
122 Thru 146	1 3/8	1 3/16	1 1/16	1/2								

RAMP M SHIMS

Fl. Bm. No.	Detail A				Detail B			
	t1	t2	t3	t4	t1	t2	t3	t4
Thru 3	7/8	1 1/16	7/16	1	Same as detail A			
4 Thru 6	3/4	1 3/8	1/2	1 1/8				
7 Thru 9	1 1/16	1 1/4	5/8	1 3/16				
10 Thru 12	9/16	1 3/16	1 1/16	1 5/16				
13 Thru 15	1/2	1 1/8	3/4	1 3/8				

RAMP S SHIMS

Fl. Bm. No.	Detail A				Detail B			
	t1	t2	t3	t4	t1	t2	t3	t4
1 Thru 3	3/16	1 1/16	5/16	5/8	Same as detail A			
4 Thru 6	1 3/16	1 1/16	5/16	1 5/16				
7 Thru 9	1 3/16	1 1/4	3/8	1 3/16				
10 Thru 12	1 1/8	1 1/16	3/8	1				
13 Thru 15	1	1 3/8	1/2	1 1/16				
16 Thru 18	1 1/16	1 1/16	9/16	1 3/16				
19 Thru 21	7/8	1 1/2	5/8	1 1/4				
22 Thru 24	3/16	1 1/8	3/4	1 5/16				
25 Thru 27	3/4	1 5/16	1 3/16	1 3/8				



DETAIL A, B, or C

Shim shown at Floor Beam 37 thru 75
Other shims are similar

Note:
If additional shims are required, the cost of these shims is to be incidental to Structural Steel.

NOTE

For location of Detail A, B or C see Floor Beam Schedule.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	168
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

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

STRINGER SHIMS

POPLAR STREET BRIDGE APPROACHES
ROADWAYS "A" "B" AND "C"
RAMPS "M" AND "S"

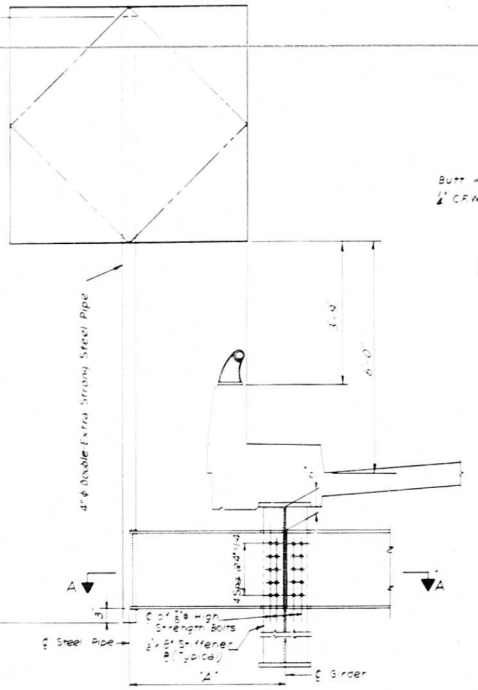
F. A. I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

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

SHEET 133 OF 241

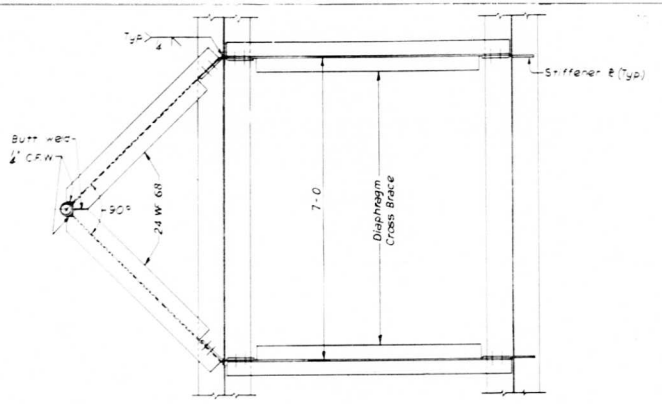
D BY RME
BY I. M.
D BY AJC
D BY FA

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I – 70	82–3HVB	ST. CLAIR	289	169
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



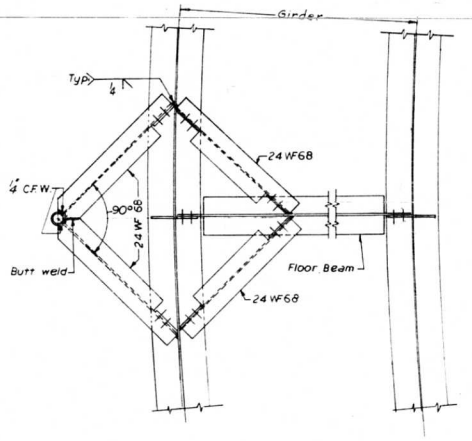
ELEVATION

SIGN BRACKET FOR HIGHWAY ON STRUCTURE



SECTION A-A

MULTIPLE GIRDER SYSTEM



SECTION A-A

2 GIRDER SYSTEM WITH FLOOR BEAMS

Sign Bracket	'A'	'B'
#1	3-0	14-6
#2	3-0	12-6
#3	3-10	15-0
#4	3-6	14-6

Note: For location of Sign Bracket see Framing Plan

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

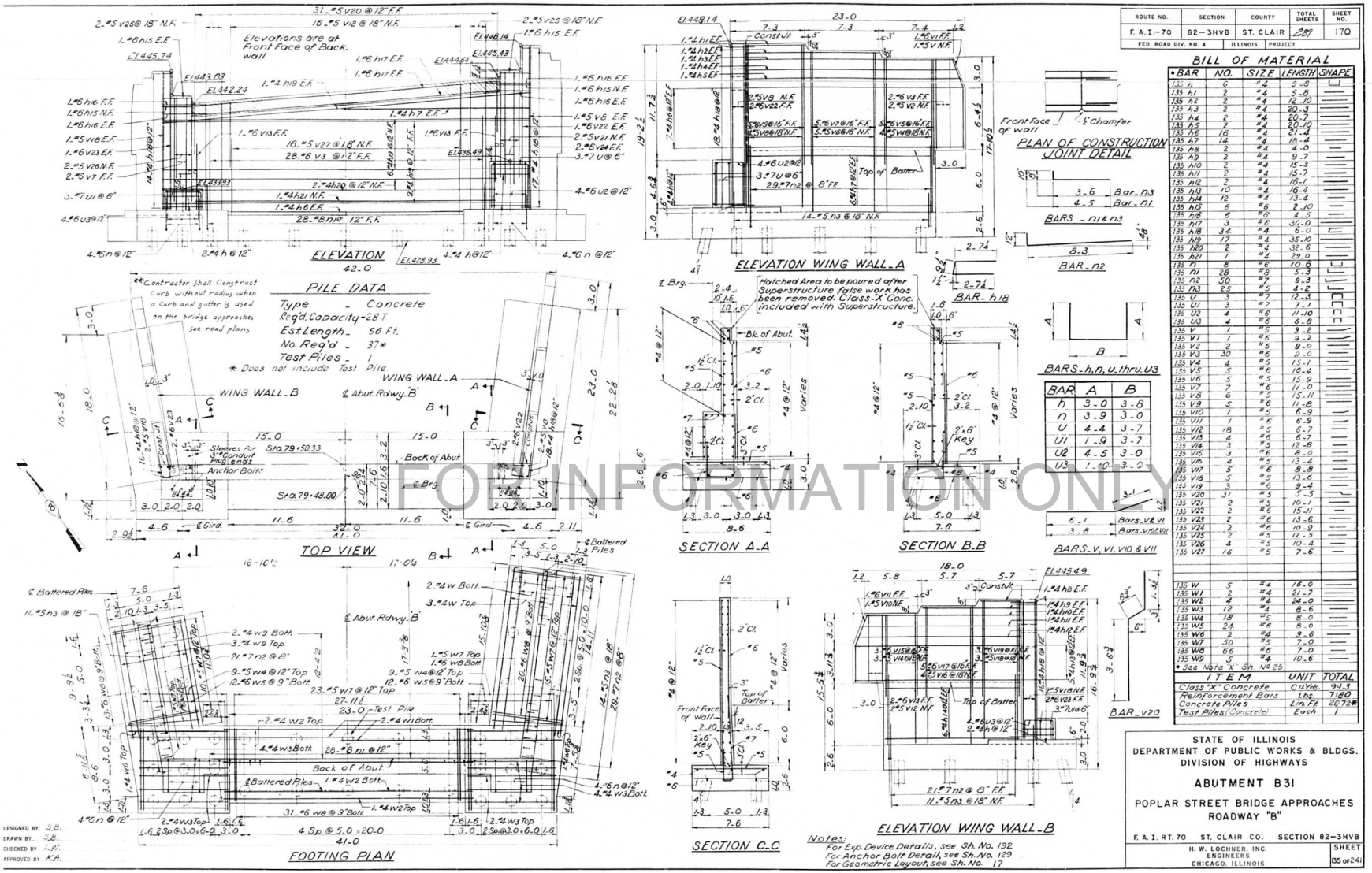
SIGN BRACKET

POPLAR STREET BRIDGE APPROACHES
ROADWAYS "A", "B" AND "C"
RAMPS "M" AND "S"

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

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

SHEET 134 or 241



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I.-70	82-3HVB	ST. CLAIR	287	170
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

*BAR	NO.	SIZE	LENGTH	SHAPE
135 n	6	#4	2-8	
135 h1	2	#4	5-8	
135 h2	2	#4	12-10	
135 h3	2	#4	20-3	
135 h4	2	#4	20-7	
135 h5	2	#4	20-10	
135 h6	16	#4	21-4	
135 h7	14	#4	16-4	
135 h8	2	#4	4-0	
135 h9	2	#4	9-7	
135 h10	2	#4	15-3	
135 h11	2	#4	15-7	
135 h12	2	#4	16-1	
135 h13	10	#4	10-4	
135 h14	12	#4	13-4	
135 h15	6	#6	2-10	
135 h16	6	#6	4-5	
135 h17	3	#6	30-0	
135 h18	34	#4	6-0	
135 h19	17	#4	35-10	
135 h20	2	#4	32-6	
135 h21	1	#4	29-0	
135 n1	8	#6	10-6	
135 n2	28	#9	5-3	
135 n3	50	#7	9-3	
135 n3	25	#7	4-2	
135 U	3	#7	12-3	
135 U1	3	#7	7-1	
135 U2	4	#6	11-10	
135 U3	4	#6	6-8	
135 V	1	#5	9-2	
135 V1	1	#6	9-2	
135 V2	2	#5	9-0	
135 V3	30	#6	9-10	
135 V4	4	#5	15-1	
135 V5	5	#6	10-4	
135 V6	5	#5	15-9	
135 V7	7	#6	11-0	
135 V8	6	#5	15-11	
135 V9	5	#6	11-8	
135 V10	1	#5	6-9	
135 V11	1	#6	6-9	
135 V12	18	#5	6-7	
135 V13	4	#6	6-7	
135 V14	3	#5	12-8	
135 V15	3	#6	8-8	
135 V16	4	#5	13-4	
135 V17	5	#6	8-8	
135 V18	5	#5	13-6	
135 V19	3	#6	9-6	
135 V20	31	#5	5-5	
135 V21	2	#5	10-1	
135 V22	2	#5	15-11	
135 V23	2	#6	13-6	
135 V24	2	#6	10-9	
135 V25	3	#5	12-5	
135 V26	4	#5	10-4	
135 V27	16	#5	7-6	
135 W	5	#4	18-0	
135 W1	2	#4	21-7	
135 W2	4	#4	24-0	
135 W3	12	#4	8-6	
135 W4	18	#5	8-0	
135 W5	24	#6	8-0	
135 W6	2	#4	9-6	
135 W7	50	#5	7-0	
135 W8	66	#6	7-0	
135 W9	5	#4	10-6	

* See Note 'X' Sh. No. 125

ITEM	UNIT	TOTAL
Class 'X' Concrete	C.Yds.	94.3
Reinforcement Bars	Lbs.	7180
Concrete Piles	Lin. Ft.	2072
Test Piles (Concrete)	Each	1

Notes:
For Exp. Device Details, see Sh. No. 132
For Anchor Bolt Detail, see Sh. No. 129
For Geometric Layout, see Sh. No. 17

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

ABUTMENT B3I

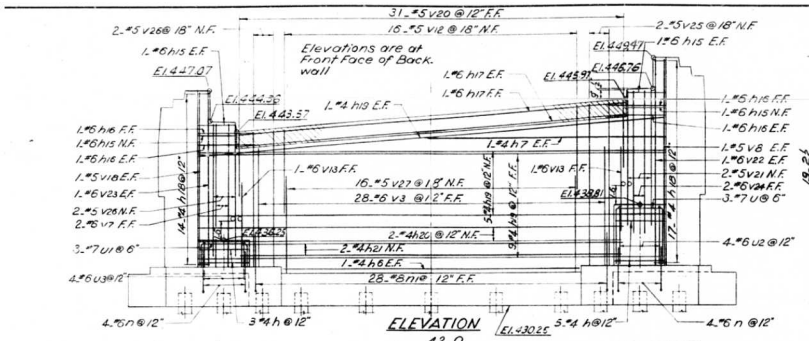
POPLAR STREET BRIDGE APPROACHES
ROADWAY "B"

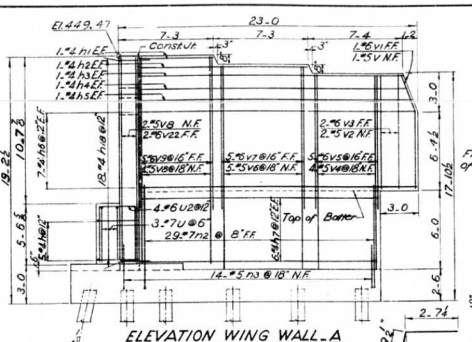
F. A. I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

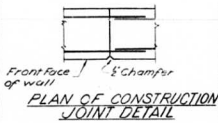
DESIGNED BY S.B.
DRAWN BY S.B.
CHECKED BY L.M.
APPROVED BY K.A.

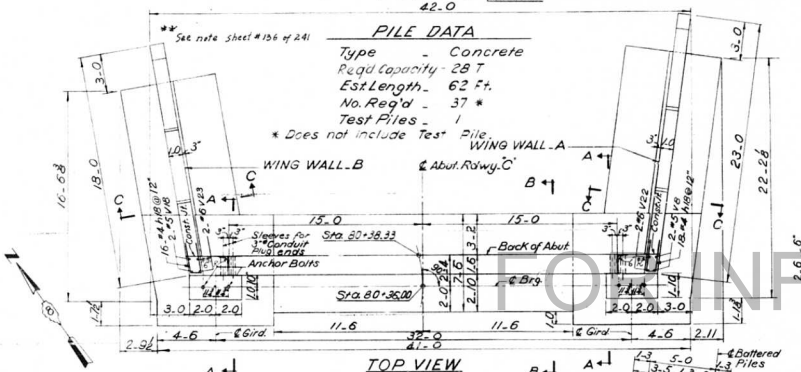
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

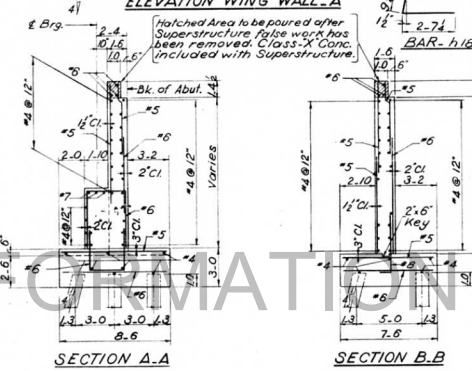
SHEET 135 of 241

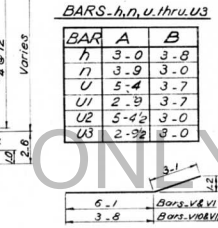




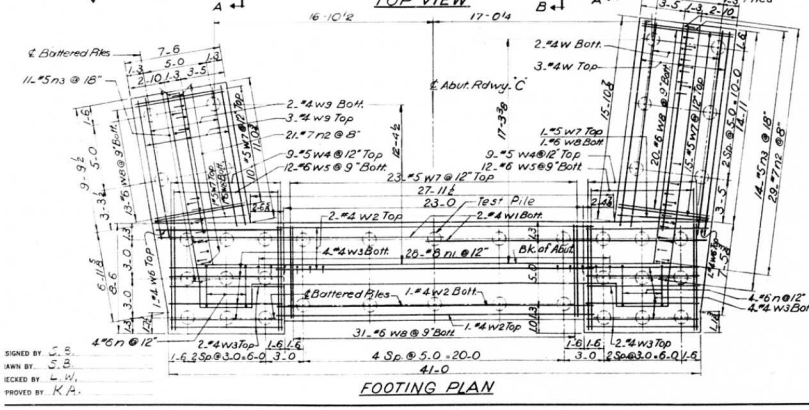


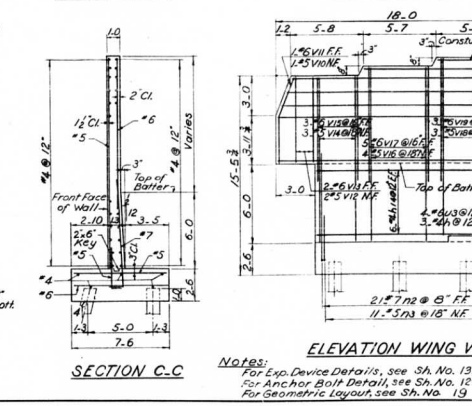






BAR	A	B
h	3-0	3-8
n	3-9	3-0
U	5-4	3-7
U1	2-9	3-7
U2	5-4½	3-0
U3	2-9½	3-0





Notes:
For Exp. Device Details, see Sh. No. 132
For Anchor Bolt Detail, see Sh. No. 129
For Geometric Layout, see Sh. No. 19

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I.-70	82-3HVB	ST. CLAIR	289	171
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

●BAR	NO.	SIZE	LENGTH	SHAPE
136 h	8	#4	9-8	
136 h1	2	#4	5-8	
136 h2	2	#4	12-10	
136 h3	2	#4	20-3	
136 h4	2	#4	20-7	
136 h5	2	#4	20-10	
136 h6	16	#4	21-4	
136 h7	14	#4	18-4	
136 h8	2	#4	4-0	
136 h9	2	#4	9-7	
136 h10	2	#4	15-3	
136 h11	2	#4	15-7	
136 h12	2	#4	16-1	
136 h13	10	#4	16-4	
136 h14	12	#4	13-4	
136 h15	6	#6	2-10	
136 h16	6	#6	4-5	
136 h17	3	#6	30-0	
136 h18	34	#4	5-0	
136 h19	16	#4	35-10	
136 h20	2	#4	32-6	
136 h21	2	#4	29-0	
136 n	8	#6	10-6	
136 n1	28	#3	5-3	
136 n2	50	#7	9-3	
136 n3	25	#6	4-2	
136 U	3	#7	14-3	
136 U1	3	#7	9-1	
136 U2	4	#6	13-9	
136 U3	4	#6	8-7	
136 V	1	#5	9-2	
136 V1	1	#6	9-2	
136 V2	2	#5	9-0	
136 V3	30	#6	9-0	
136 V4	4	#5	15-1	
136 V5	5	#6	10-4	
136 V6	5	#5	15-8	
136 V7	7	#6	11-0	
136 V8	6	#5	15-11	
136 V9	5	#6	11-6	
136 V10	1	#5	6-9	
136 V11	1	#6	6-9	
136 V12	18	#5	6-7	
136 V13	4	#6	6-7	
136 V14	3	#5	12-6	
136 V15	3	#6	8-0	
136 V16	4	#5	13-4	
136 V17	5	#6	8-8	
136 V18	5	#5	13-6	
136 V19	3	#6	9-4	
136 V20	31	#5	5-5	
136 V21	2	#5	9-1	
136 V22	2	#6	15-11	
136 V23	2	#6	13-6	
136 V24	2	#6	9-9	
136 V25	2	#5	12-3	
136 V26	4	#5	10-4	
136 V27	16	#5	7-6	
136 W	5	#4	18-0	
136 W1	2	#4	21-7	
136 W2	4	#4	24-0	
136 W3	12	#4	8-6	
136 W4	18	#5	8-0	
136 W5	24	#6	8-0	
136 W6	2	#4	9-6	
136 W7	50	#5	7-0	
136 W8	66	#6	7-0	
136 W9	5	#4	10-6	

● See Note "X" Sh. No. 25.

ITEM	UNIT	TOTAL
Class "X" Concrete	Cu.Yds.	342
Reinforcement Bars	Lbs.	75,40
Concrete Piles	Lin.Ft.	2294
Test Piles (Concrete)	Each	1

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

ABUTMENT C31

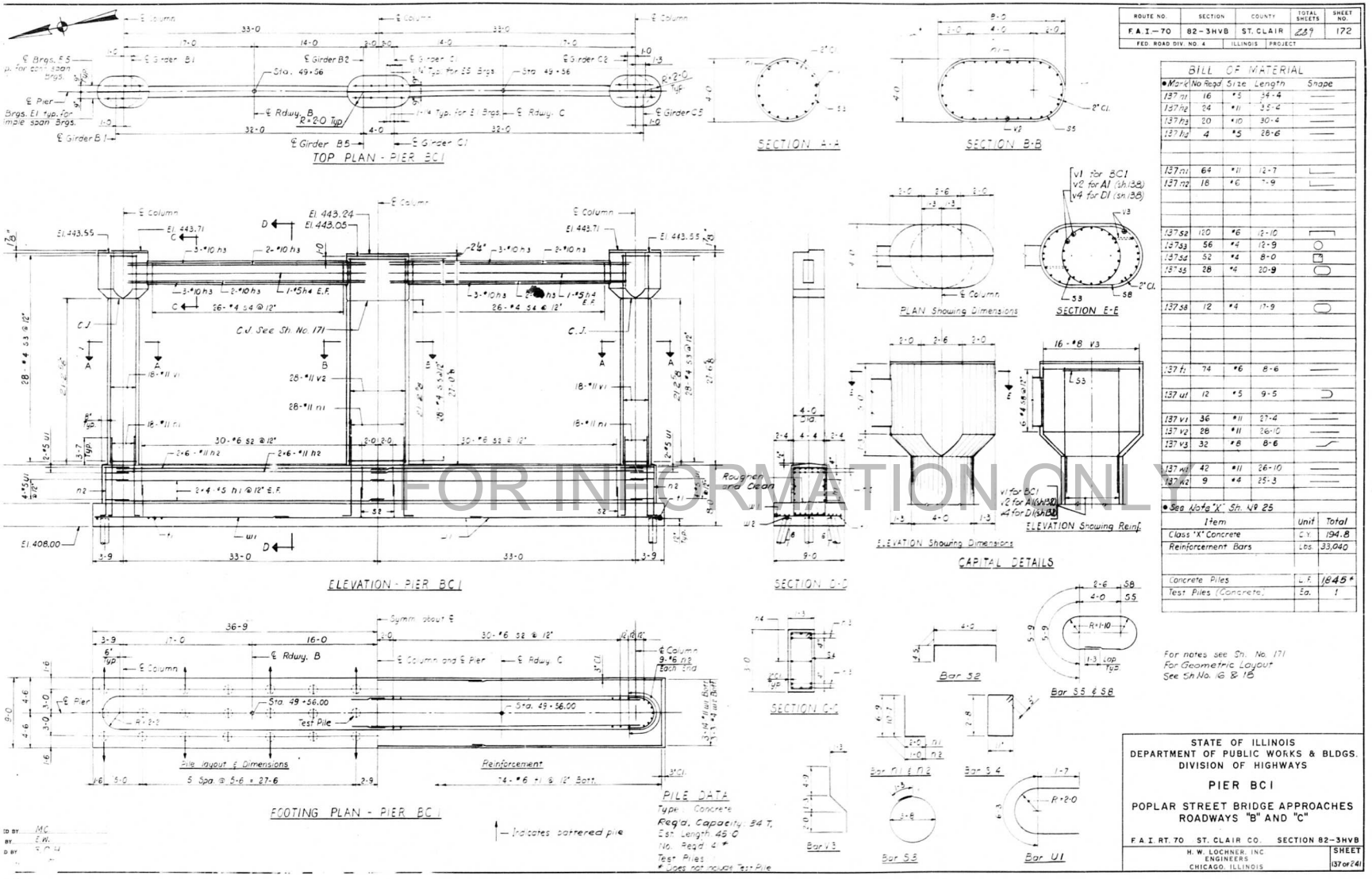
POPLAR STREET BRIDGE APPROACHES
ROADWAY "C"

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

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

SHEET 136 of 241

SIGNED BY S.B.
DRAWN BY S.B.
CHECKED BY L.W.
APPROVED BY K.A.



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82-3HVB	ST. CLAIR	239	172
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

• Mark	No Reqd.	Size	Length	Shape
137 n1	16	#5	34-4	
137 n2	24	#11	35-2	
137 n3	20	#10	30-4	
137 n4	4	#5	28-6	
137 n1	64	#11	12-7	
137 n2	18	#6	7-9	
137 s2	120	#6	12-10	
137 s3	56	#4	12-9	
137 s4	52	#4	8-0	
137 s5	28	#4	20-9	
137 s8	12	#4	17-9	
137 f1	74	#6	8-6	
137 u1	12	#5	9-5	
137 v1	36	#11	27-4	
137 v2	28	#11	36-10	
137 v3	32	#8	8-6	
137 w1	42	#11	26-10	
137 w2	9	#4	25-3	

• See Note "X" Sh. No 25

Item	Unit	Total
Class "X" Concrete	C.Y.	194.8
Reinforcement Bars	Lbs.	33,040
Concrete Piles	L.F.	1845*
Test Piles (Concrete)	Ea.	1

For notes see Sh. No. 171
For Geometric Layout
See Sh. No. 16 & 18

PILE DATA
Type: Concrete
Req'd. Capacity: 84 T.
Est. Length: 45'-0"
No. Read: 41*
Test Piles: 1
* Does not include Test Pile

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

PIER BC1

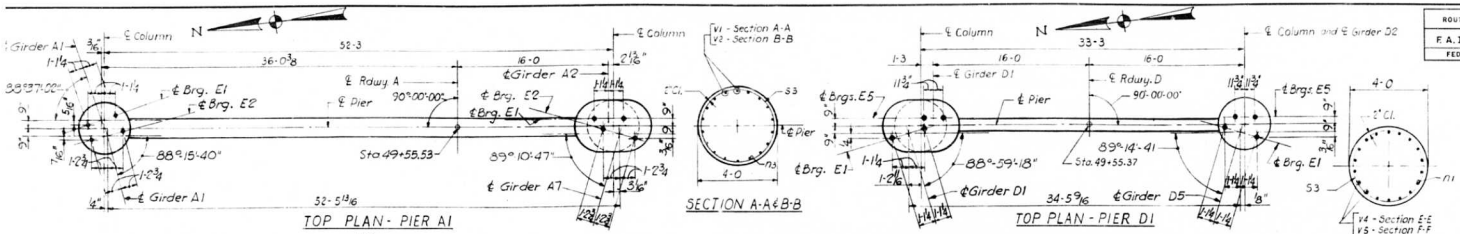
POPLAR STREET BRIDGE APPROACHES
ROADWAYS "B" AND "C"

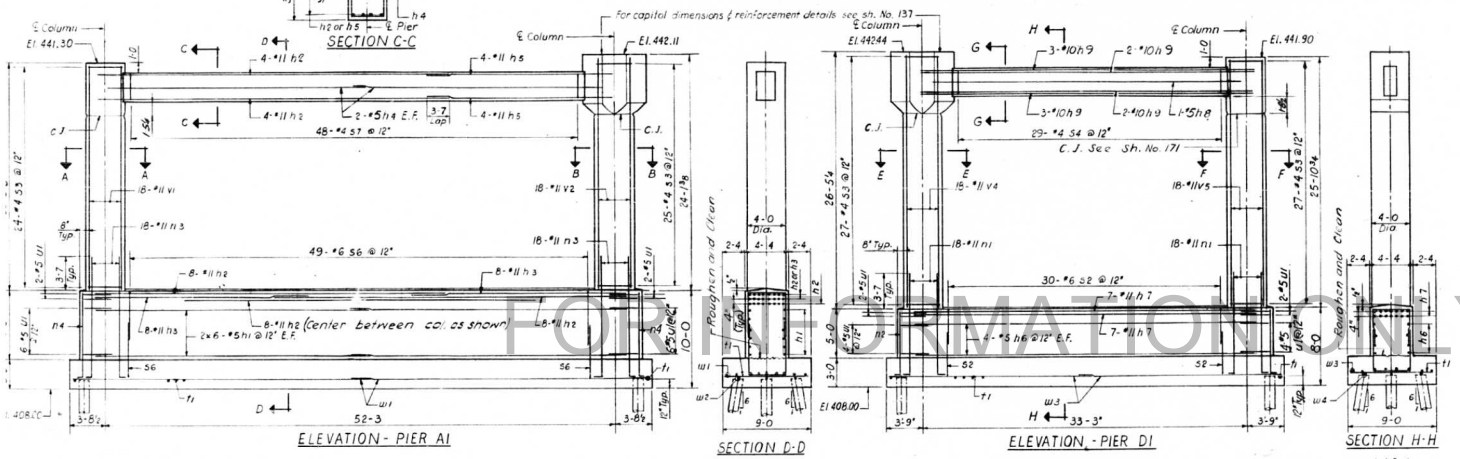
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

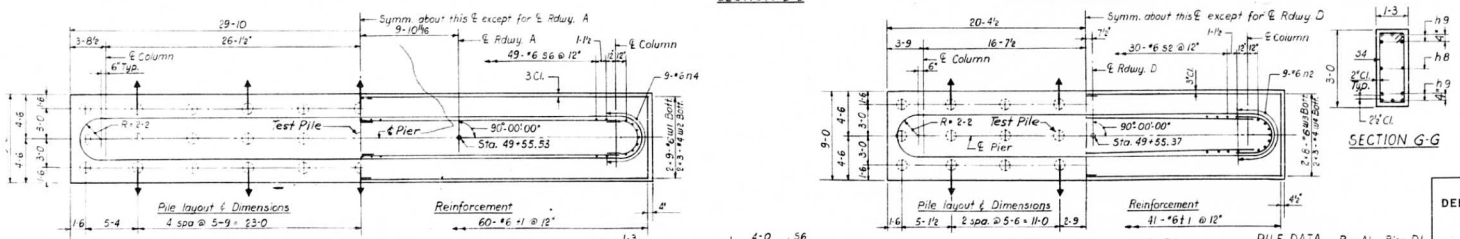
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

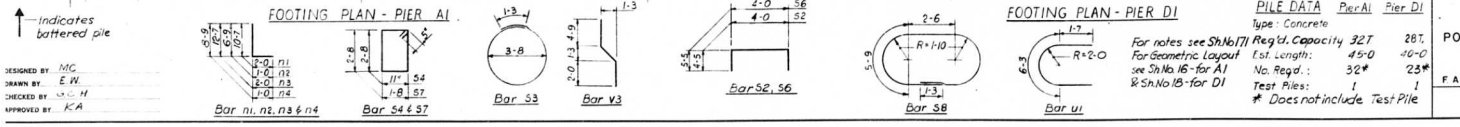
SHEET 137 of 241

ID BY: M.C.
BY: E.W.
D BY:









Indicates battered pile

DESIGNED BY MC
DRAWN BY E.W.
CHECKED BY G.C.H
APPROVED BY K.A

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82—3HVB	ST. CLAIR	289	173
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

Mark	No. Reqd. Pier A1	No. Reqd. Pier D1	Size	Length	Shape
138 h1	24	—	#5	27-5	
138 h2	32	—	#11	36-0	
138 h3	16	—	#11	20-10	
138 h4	4	—	#5	26-2	
138 h5	8	—	#11	22-0	
138 h6	—	8	#5	34-3	
138 h7	—	14	#11	34-3	
138 h8	—	2	#5	31-9	
138 h9	—	10	#10	33-6	
138 u1	16	12	#5	9-5	C
138 n1	—	36	#11	12-7	
138 n2	—	18	#6	7-9	
138 n3	36	—	#11	14-7	
138 n4	18	—	#6	9-9	
138 s2	—	60	#6	12-10	
138 s3	49	54	#4	12-9	
138 s4	—	29	#4	8-0	
138 s6	98	—	#6	14-10	
138 s7	48	—	#4	9-6	
138 s8	6	6	#4	17-9	
138 t1	60	41	#6	8-6	
138 v1	16	—	#11	23-1	
138 v2	16	—	#11	23-11	
138 v3	16	16	#8	8-6	
138 v4	—	18	#11	26-3	
138 v5	—	18	#11	25-8	
138 w1	18	—	#6	30-6	
138 w2	6	—	#4	30-2	
138 w3	—	16	#6	21-3	
138 w4	—	6	#4	21-0	

Item	Unit	Total Pier A1	Total Pier D1
Class 'X' Concrete	C.Y.	153.2	100.8
Reinforcement Bars	Lbs	22,380	15,450
Concrete Piles	L.F.	1440 *	920 *
Test Piles (Concrete)	Ea.	1	1

* See note 'X' sh. No 25

PILE DATA

	Pier A1	Pier D1
Type: Concrete		
For notes see Sh.No 171 Req'd. Capacity	32T	28T
For Geometric Layout Est. Length:	45-0	40-0
see Sh.No. 16 - for A1 No. Req'd.:	32*	23*
& Sh.No 18 - for D1 Test Piles:	1	1

* Does not include Test Pile

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

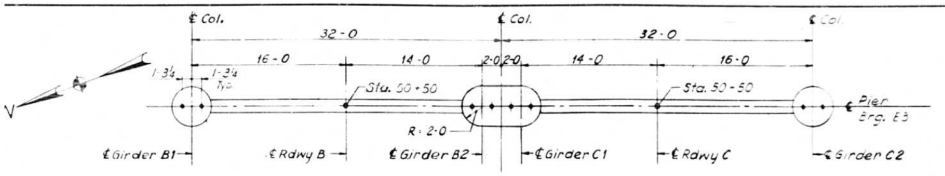
PIERS A1 AND D1

POPLAR STREET BRIDGE APPROACHES
ROADWAYS "A" AND "D"

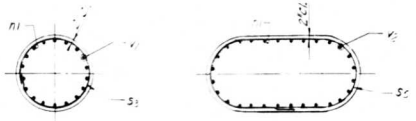
F A I RT 70 ST. CLAIR CO. SECTION 82-3HVB

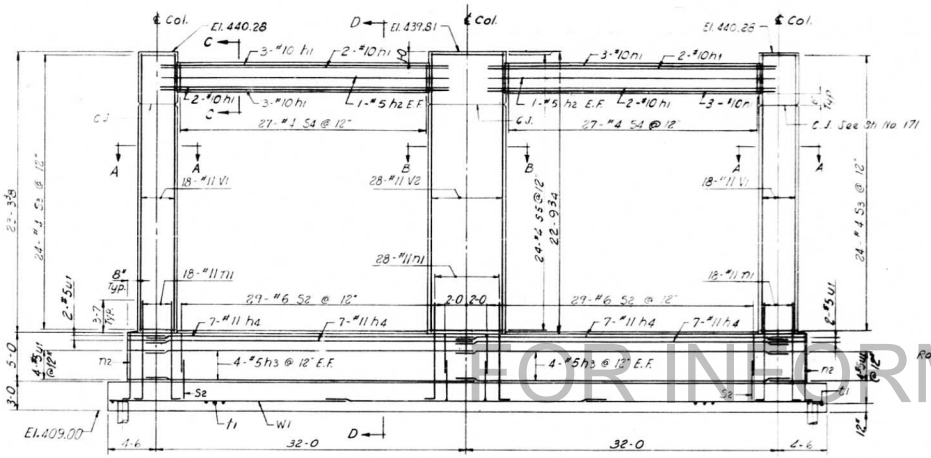
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 138 of 241

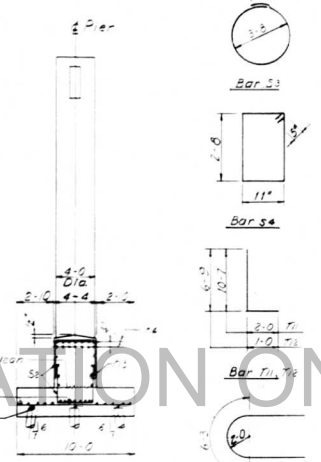


TOP PLAN - PIER BC2

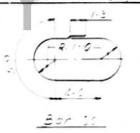


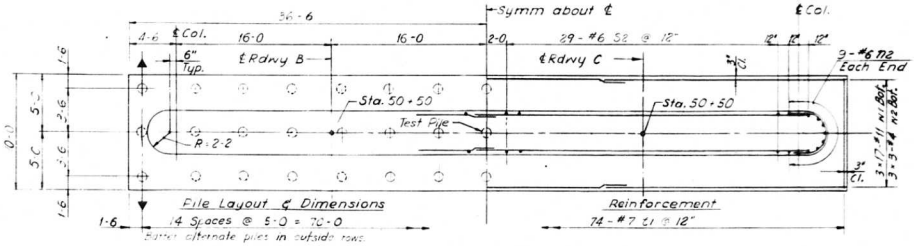


ELEVATION - PIER BC2

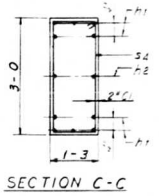


SECTION D-D





FOOTING PLAN - PIER BC2



↑ Indicates Battered Pile

PILE DATA
Type: Concrete
Regd. Capacity: 34T
Est. Length: 52'-0
No. Regd.: 44#
Test Pile: 1
#Does not include Test Pile

For Notes see Sh. No. 171
For Geometric Layout see Sh. Nos. 16 & 18.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. - 70	82-3-HVB	ST. CLAIR	289	174
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

* Mark	No. Regd.	Size	Length	Shape
139 h1	22	# 10	53'-6	
139 h2	4	# 5	28'-6	
139 h3	4	# 5	33'-4	
139 h4	28	# 11	53'-3	
139 n1	60	# 6	12'-7	
139 n2	12	# 6	7'-9	
139 S3	176	# 6	2'-10	
139 S3	42	# 6	6'-9	
139 S4	24	# 6	8'-0	
139 S5	24	# 6	20'-9	
139 T1	72	# 7	9'-8	
139 U1	12	# 6	9'-5	
139 V1	36	# 11	25'-0	
139 V2	28	# 11	27'-5	
139 W1	51	# 11	26'-8	
139 W2	9	# 6	25'-0	

* See Note X Sh. No. 25

Item	Unit	Total
Class 'X' Concrete	C.Y.	187.9
Reinforcement Bars	Lbs.	32,850
Concrete Piles	L.F.	2288 *
Test Piles (Concrete)	Ea.	1

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

PIER BC2

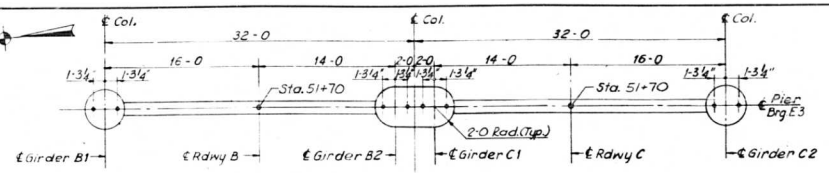
POPLAR STREET BRIDGE APPROACHES
ROADWAYS "B" AND "C"

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

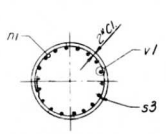
H.W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 139 OF 241

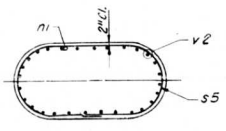
SIGNED BY M.C.
DWN BY C.C.F.
CKED BY G.C.I.
APPROVED BY —



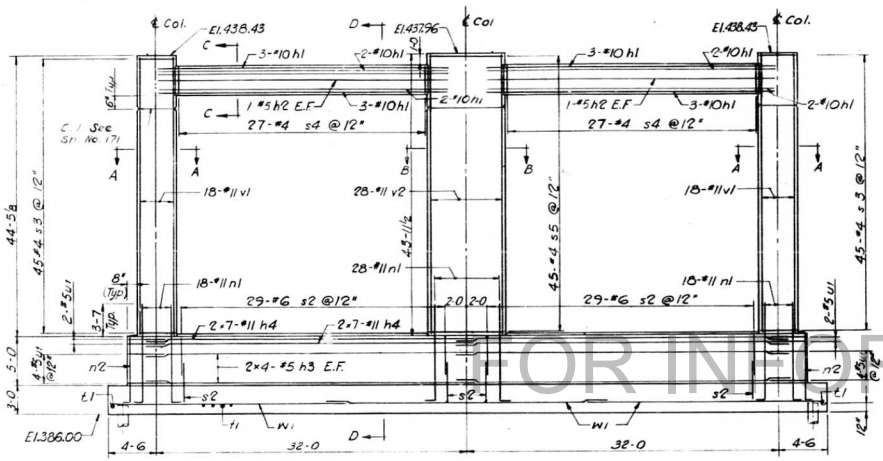
TOP PLAN - PIER BC 3



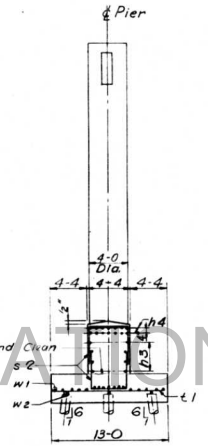
SECTION A-A



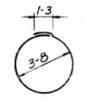
SECTION B-B



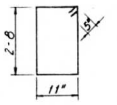
ELEVATION - PIER BC 3



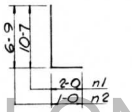
SECTION D-D



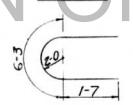
Bar s3



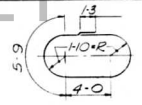
Bar s4



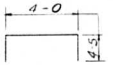
Bar n1, n2



Bar u1



Bar s5



Bar s2

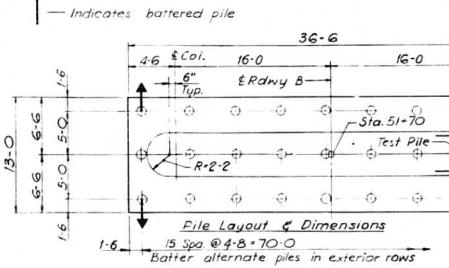
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82-3HVB	ST. CLAIR	289	175
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

• Mark	No. Regd	Size	Length	Shape
140 h1	20	# 10	30-4	—
140 h2	4	# 5	28-6	—
140 h3	16	# 5	33-4	—
140 h4	28	# 11	34-4	—
140 n1	64	# 11	12-7	L
140 n2	18	# 6	7-9	L
140 s2	116	# 6	12-10	L
140 s3	90	# 4	12-9	C
140 s4	54	# 4	8-0	
140 s5	45	# 4	20-10	
140 t1	74	# 10	12-8	—
140 u1	12	# 5	9-5	⊂
140 v1	36	# 11	44-3	—
140 v2	28	# 11	43-9	—
140 w1	51	# 11	26-6	—
140 w2	9	# 4	25-1	—

• See Note 'X' Sh. No. 25

Item	Unit	Total
Class 'X' Concrete	C.Y.	254.2
Reinforcement Bars	Lbs.	43,350
Concrete Piles	L.F.	2,491 +
Test Piles (Concrete)	Ea.	1

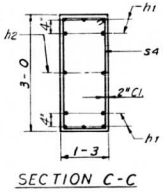


File Layout ℄ Dimensions

Reinforcement

74-#10 t1 @ 12" Bot

FOOTING PLAN - PIER BC 3



SECTION C-C

PILE DATA

Type: Concrete
Regd. Capacity: 35 T
Est. Length: 53'0
No. Regd.: 47*
Test Pile: 1
*Does not include Test Pile
For notes see Sh. No. 171
For Geometric Layout See Sh. No. 16 & 18.

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

PIER BC3

POPLAR STREET BRIDGE APPROACHES
ROADWAYS "B" AND "C"

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

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

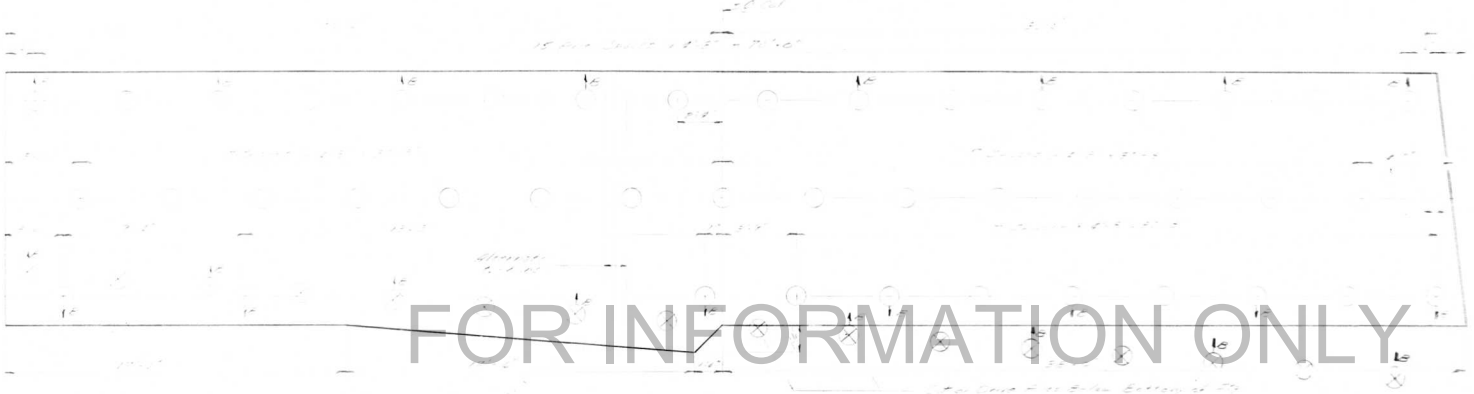
SHEET 140 OF 214

DESIGNED BY M.C.
DRAWN BY Geo.S.P.
CHECKED BY G.C.H.
APPROVED BY K.A.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI Rte 70	82-3HWB	St Clair	289	175A

SHEET NO.
SHEETS



FOR INFORMATION ONLY

FOOTING PLAN

LEGEND

PILE DATA
TYPE: CONCRETE
CAPACITY: 35 Tons
EST LENGTH: 46'
NO REQUIRED: 42

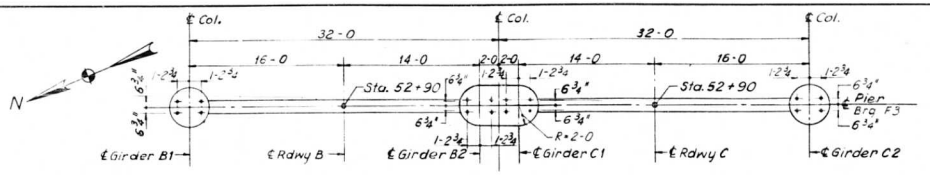
ADDITIONAL MATERIAL
CLASS I CONCRETE 2.6 Cu Yds
CONCRETE PILES 1932 Lin Ft

AS BUILT

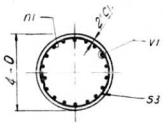
DESIGNED	TFC
CHECKED	RJK
DRAWN	EFC
CHECKED	PJK

19
EXAMINED
PASSED
APPROVED

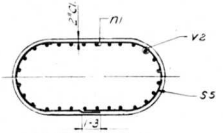
PIER BC 3
POPULAR STREET BRIDGE APPROACHES
FAI Rte 70 Sec 82-3HWB
ST CLAIR COUNTY
PROJECT I IG-70-1(63)C



TOP PLAN - PIER BC4



SECTION A-A



SECTION B-B

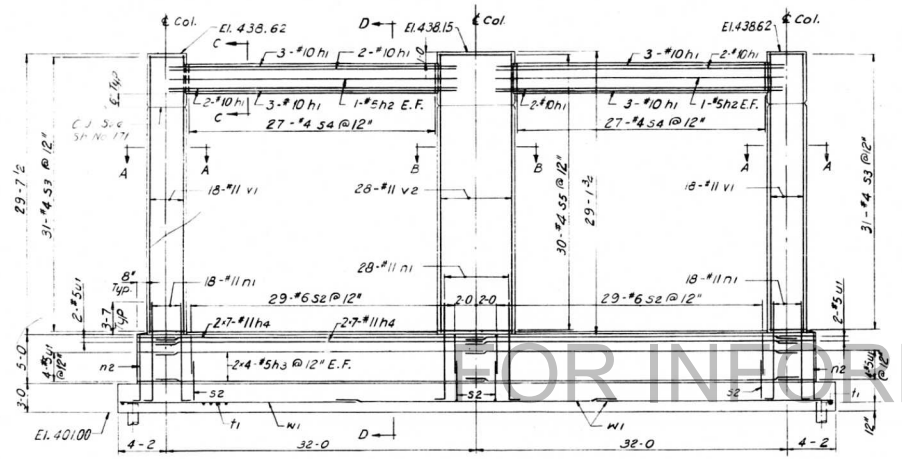
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82-3HVB	ST. CLAIR	289	76
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

BILL OF MATERIAL

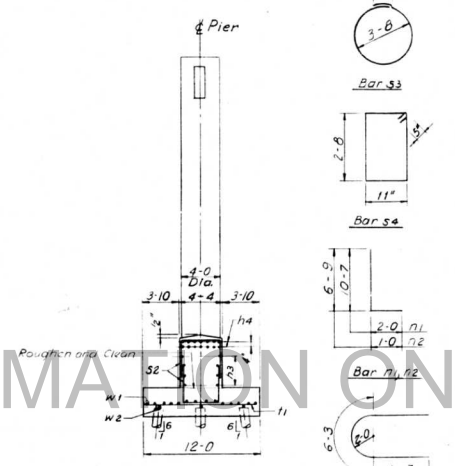
• Mark	No. Reqd.	Size	Length	Shape
141 h1	20	# 10	30-4	—
141 h2	4	# 6	28-6	—
141 h3	16	# 5	33-4	—
141 h4	28	# 11	34-4	—
141 n1	64	# 11	12-7	—
141 n2	18	# 6	7-9	—
141 s2	116	# 6	12-10	⌊
141 s3	62	# 4	12-9	3
141 s4	54	# 4	8-0	8
141 s5	30	# 4	20-10	⌒
141 t1	73	# 10	11-8	—
141 u1	12	# 5	9-5	⊂
141 v1	36	# 11	29-5	—
141 v2	28	# 11	28-11	—
141 w1	42	# 11	26-4	—
141 w2	9	# 4	24-9	—

• See Note 'X' Sh. No. 25

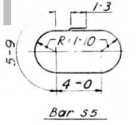
Item	Unit	Total
Class 'X' Concrete	C.Y.	215.7
Reinforcement Bars	Lbs.	36,090
Concrete Piles	L.F.	2000 *
Test Piles (Concrete)	Ea.	1

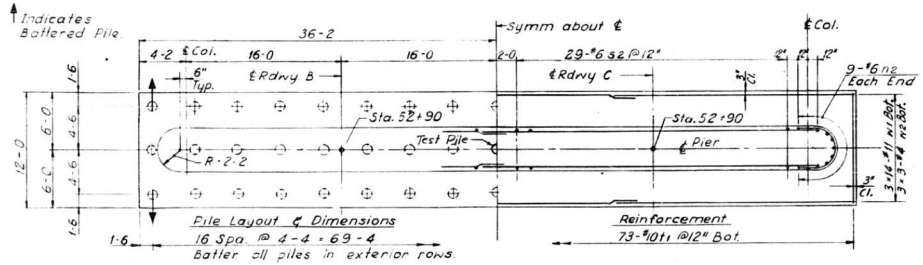


ELEVATION - PIER BC 4

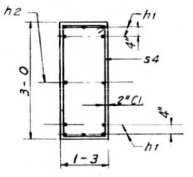


SECTION D-D





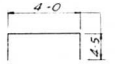
FOOTING PLAN - PIER BC 4



SECTION C-C

PILE DATA
Type: Concrete
Reqd. Capacity: 35 T.
Est. Length: 40-0
No. Reqd.: 50 *
Test Pile: 1
*Does not include Test Pile

For Notes see Sh. No. 171
For Geometric Layout See Sh. No. 16 & 18.



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

PIER BC4

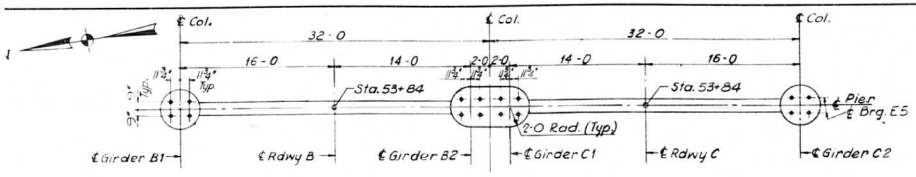
POPLAR STREET BRIDGE APPROACHES
ROADWAYS "B" AND "C"

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

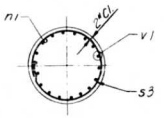
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 141 OF 24

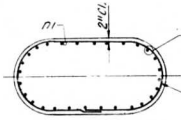
DESIGNED BY W.C.
DRAWN BY I.M.
CHECKED BY S.C.H.
APPROVED BY V.E.



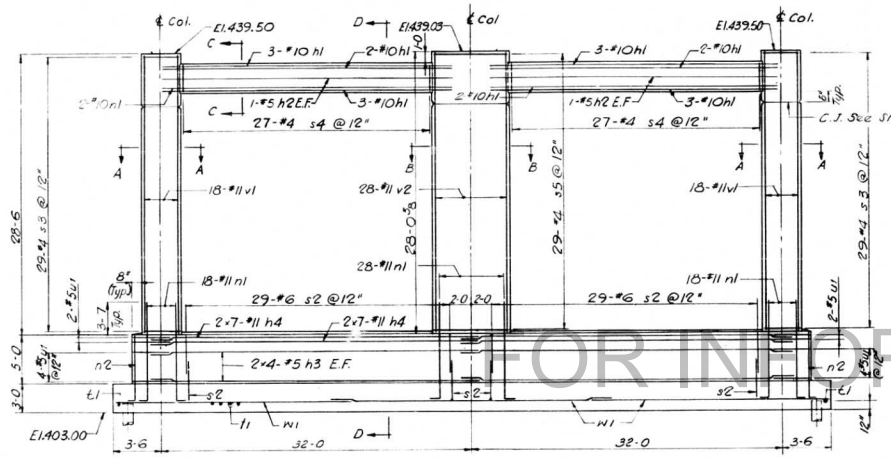
TOP PLAN - PIER BC 5



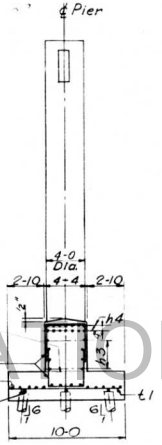
SECTION A-A



SECTION B-B

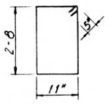


ELEVATION - PIER BC 5

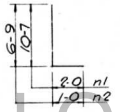


SECTION D-D

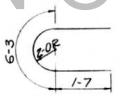
Bar s3



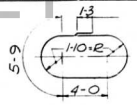
Bar s4



Bar n1,n2



Bar u1



Bar s5

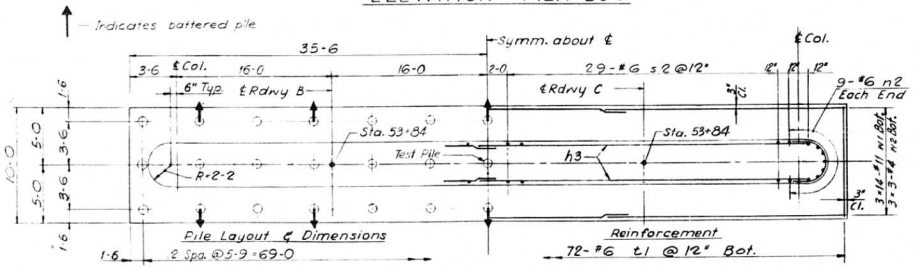
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F A I — 70	82-3HVB	ST. CLAIR	289	177
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

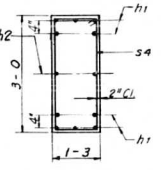
• Mark	No. Req'd	Size	Length	Shape
142 h1	20	# 10	30-4	—
142 h2	4	# 5	29-6	—
142 h3	16	# 5	33-4	—
142 h4	28	# 11	34-4	—
142 n1	64	# 11	12-7	L
142 n2	18	# 6	7-9	L
142 s2	116	# 6	12-10	U
142 s3	58	# 4	12-9	○
142 s4	54	# 4	8-0	▭
142 s5	29	# 4	20-10	⬭
142 t1	72	# 6	9-8	—
142 u1	12	# 5	9-5	⊂
142 v1	36	# 11	28-4	—
142 v2	28	# 11	27-10	—
142 w1	42	# 11	25-11	—
142 w2	9	# 4	24-5	—

• See Note "X" Sh. No. 25

Item	Unit	Total
Class 'X' Concrete	C.Y.	196.2
Reinforcement Bars	lbs.	32,960
Concrete Piles	L.F.	1330 *
Test Piles (Concrete)	Ea.	1



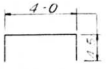
FOOTING PLAN - PIER BC 5



SECTION C-C

PILE DATA
Type: Concrete
Req'd. Capacity: 28 T.
Est. Length: 35-0
No. Req'd.: 38 *
Test Pile: 1
*Does not include Test Pile

For Notes see Sh. No. 171
For Geometric Layout see Sh. No. 16 & 18.



Bar s6

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

PIER BC5

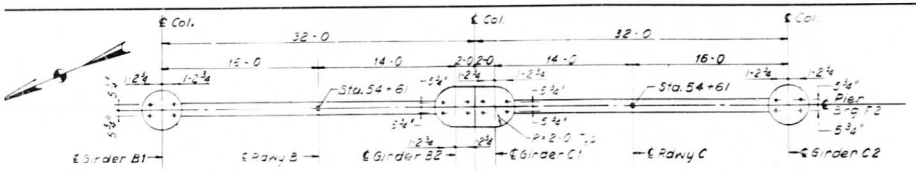
POPLAR STREET BRIDGE APPROACHES
ROADWAYS "B" AND "C"

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

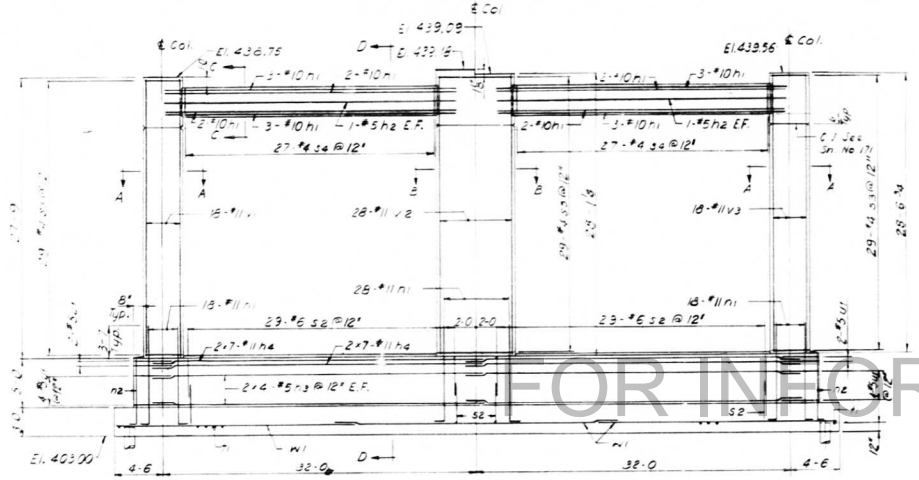
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 142 of 241

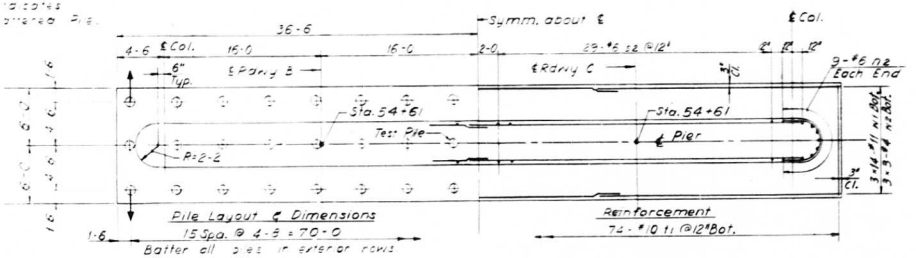
NED BY
N BY Geo. S. P.
KED BY G. C. H.
OVED BY



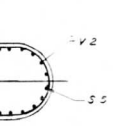
TOP PLAN - PIER BC 6



ELEVATION - PIER BC 6

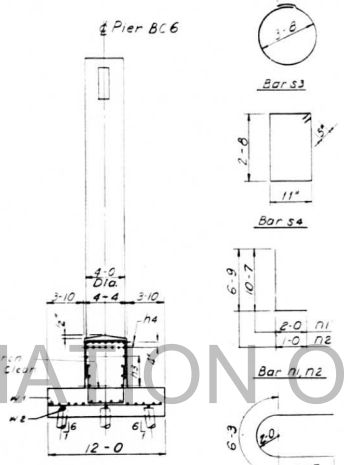


FOOTING PLAN - PIER BC 6

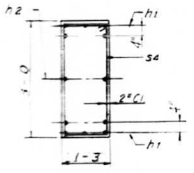


SECTION A-A

SECTION B-B



SECTION D-D



SECTION C-C

PILE DATA
Type: Concrete
Reqd. Capacity: 33T.
Est. Length: 50'-0
No. Reqd.: 47*
Test Pile: 1
*Does not include Test Pile

For notes see Sh. No. 171
For Geometric Layout see Sh. No. 16 & 18.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I - 70	82-3HVB	ST. CLAIR		176
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

• Mark	No. Reqd.	Size	Length	Shape
143 h1	50	#5	50'-4	
143 h2	4	#6	28'-6	
143 h3	16	#5	33'-4	
143 h4	28	#11	34'-4	
143 n1	64	#11	12'-7	
143 n2	18	#6	7'-9	
143 s2	116	#6	12'-10	
143 s3	58	#4	12'-9	
143 s4	54	#4	8'-0	
143 s5	29	#4	20'-9	
143 t1	74	#10	11'-8	
143 u1	12	#5	9'-5	
143 v1	18	#11	27'-7	
143 v2	28	#11	27'-9	
143 v3	18	#11	28'-4	
143 w1	42	#11	26'-6	
143 w2	9	#4	25'-0	

• See Note 'X' Sh. No. 25

Item	Unit	Total
Class 'X' Concrete	C.Y.	214.2
Reinforcement Bars	Lbs.	35,670
Concrete Piles	L.F.	2350 *
Test Piles (Concrete)	Ea.	1

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

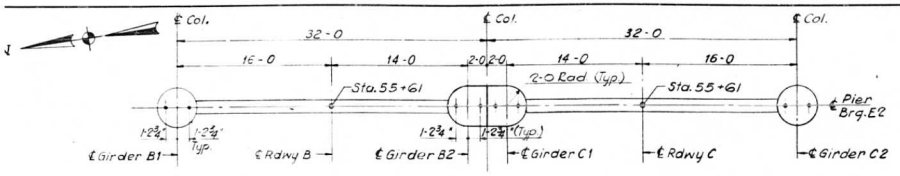
PIER BC6

POPLAR STREET BRIDGE APPROACHES
ROADWAYS "B" AND "C"

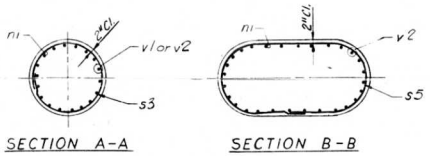
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

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

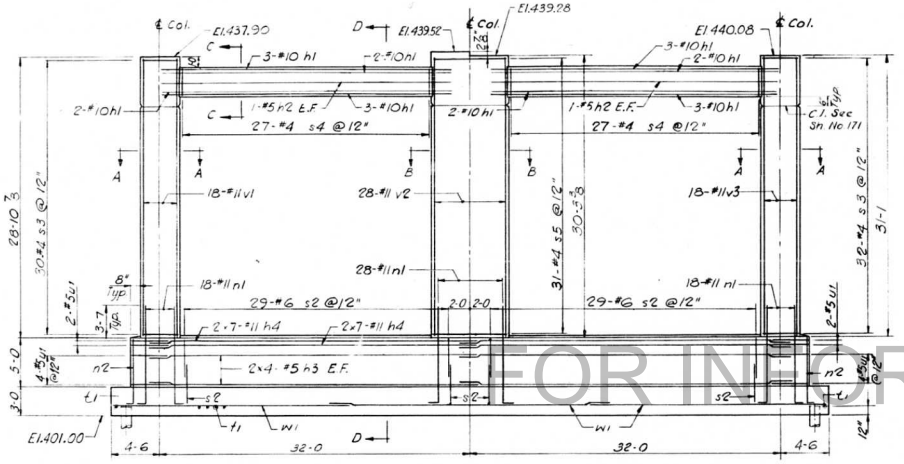
SHEET 143 OF 241



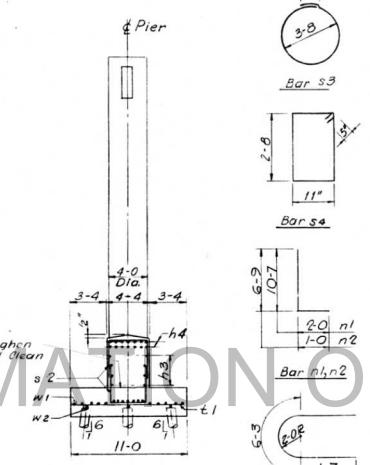
TOP PLAN - PIER BC 7



SECTION A-A SECTION B-B



ELEVATION - PIER BC 7



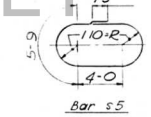
SECTION D-D

Bar s3

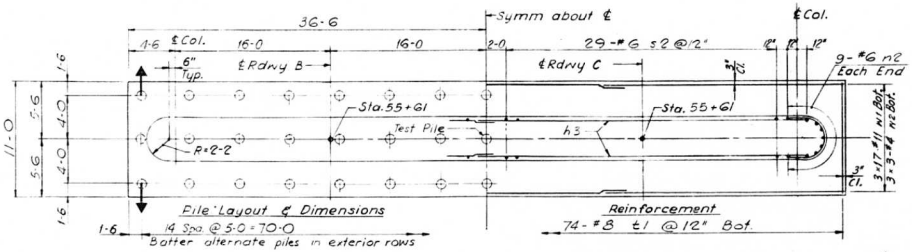
Bar s4

Bar n1, n2

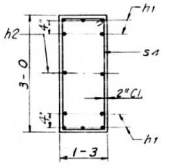
Bar u1



Bar s5

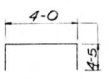


FOOTING PLAN - PIER BC 7



SECTION C-C

PILE DATA
Type: Concrete
Reqd. Capacity: 34 T
Est. Length: 48-0
No. Reqd.: 44 *
Test Pile: 1
*Does not include Test Pile
For Notes, see Sh. No. 171
For Geometric Layout see Sh. No. 16 & 18.



Bar s2

↑ — Indicates battered pile

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. - 70	82-3HVB	ST. CLAIR	289	179
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

BILL OF MATERIAL

• Mark	No. Reqd.	Size	Length	Shape
144h1	20	# 10	30-4	—
144h2	4	# 5	28-6	—
144h3	16	# 5	33-4	—
144h4	28	# 11	34-4	—
144n1	64	# 11	12-7	L
144n2	18	# 6	7-9	L
144s2	116	# 6	12-10	U
144s3	62	# 4	12-9	○
144s4	54	# 4	8-0	▭
144s5	31	# 4	20-10	⌓
144u1	74	# 8	10-8	⊏
144u1	76	# 5	9-5	⊏
144v1	18	# 11	28-8	—
144v2	28	# 11	30-1	—
144v3	18	# 11	30-11	—
144w1	51	# 11	26-6	—
144w2	9	# 4	25-1	—

• Sss Note X Sh. No. 25

Item	Unit	Total
Class 'X' Concrete	C.Y.	210.3
Reinforcement Bars	Lbs.	36,100
Concrete Piles	L.F.	2112 *
Test Piles (Concrete)	Ea.	1

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

PIER BC 7

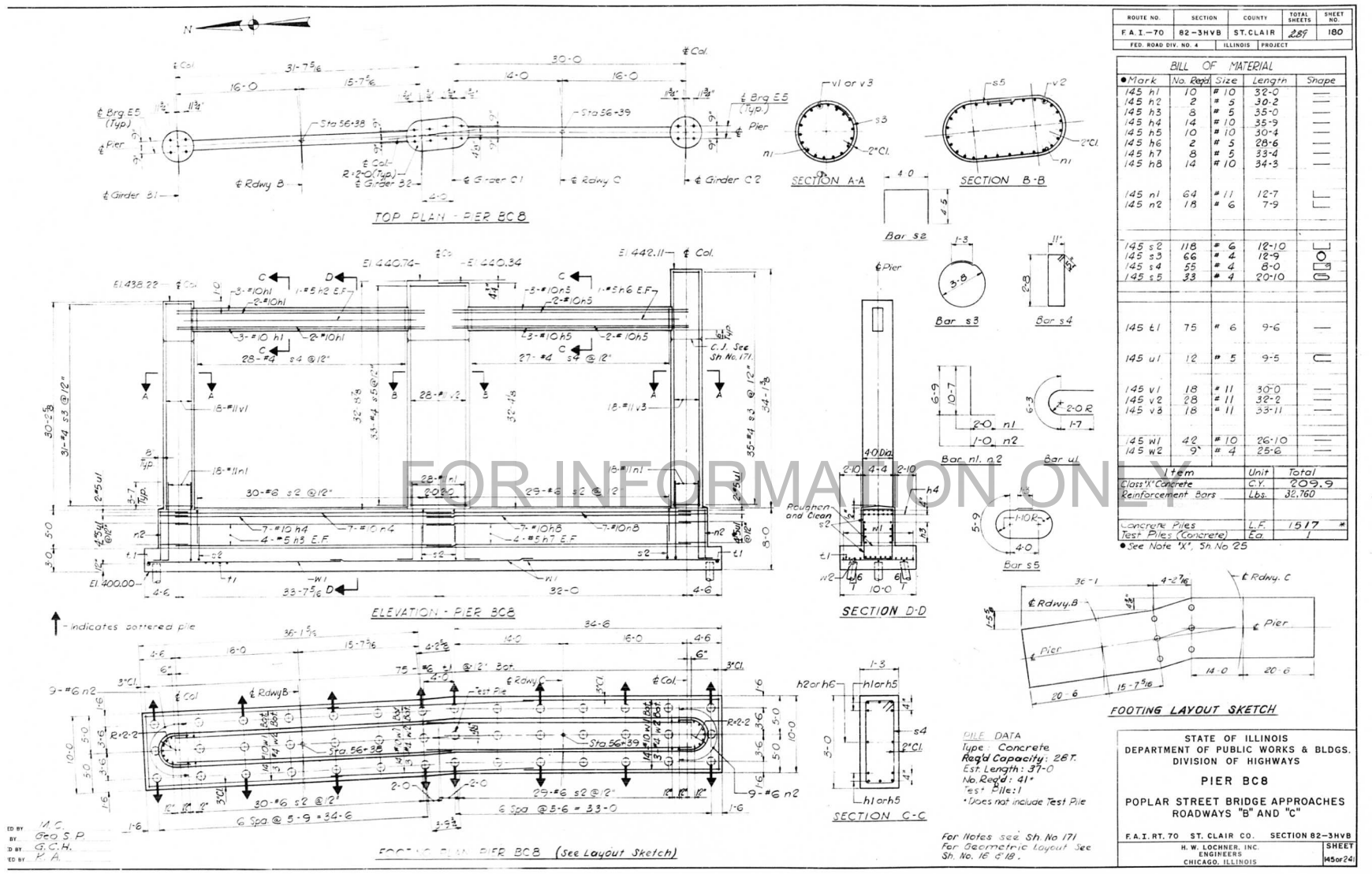
POPLAR STREET BRIDGE APPROACHES
ROADWAYS "B" AND "C"

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

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

SHEET 144 of 241

ED BY M.C.
BY Geo. S.P.
D BY S.C.H.
ED BY K.A.



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	180
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

• Mark	No. Reqd	Size	Length	Shape
145 h1	10	# 10	32-0	—
145 h2	2	# 5	30-2	—
145 h3	8	# 5	35-0	—
145 h4	14	# 10	35-9	—
145 h5	10	# 10	30-4	—
145 h6	2	# 5	28-6	—
145 h7	8	# 5	33-4	—
145 h8	14	# 10	34-3	—
145 n1	64	# 11	12-7	L
145 n2	18	# 6	7-9	L
145 s2	118	# 6	12-10	L
145 s3	66	# 4	12-9	○
145 s4	55	# 4	8-0	□
145 s5	33	# 4	20-10	⊃
145 t1	75	# 6	9-6	—
145 u1	12	# 5	9-5	⊃
145 v1	18	# 11	30-0	—
145 v2	28	# 11	32-2	—
145 v3	18	# 11	33-11	—
145 w1	42	# 10	26-10	—
145 w2	9	# 4	25-6	—

Item	Unit	Total
Class 'X' Concrete	C.Y.	209.9
Reinforcement Bars	Lbs.	32,760
Concrete Piles	L.F.	1517 *
Test Piles (Concrete)	Ea.	1

• See Note 'X', Sh. No. 25

PILE DATA
Type: Concrete
Req'd Capacity: 28T.
Est. Length: 37-0
No. Req'd: 41*
"Test" Pile: 1
* Does not include Test Pile

For Notes see Sh. No. 171
For Geometric Layout See Sh. No. 16 & 18.

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

PIER BC8

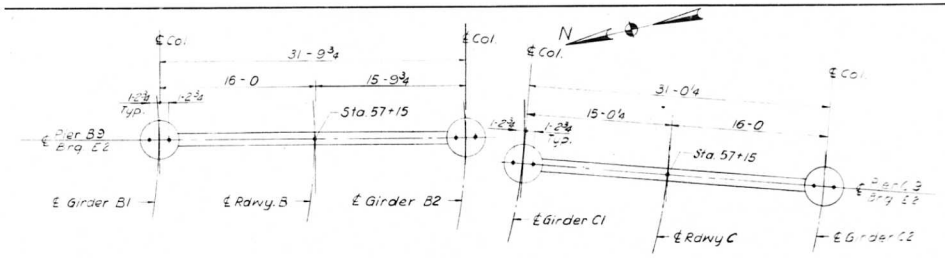
POPLAR STREET BRIDGE APPROACHES
ROADWAYS "B" AND "C"

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

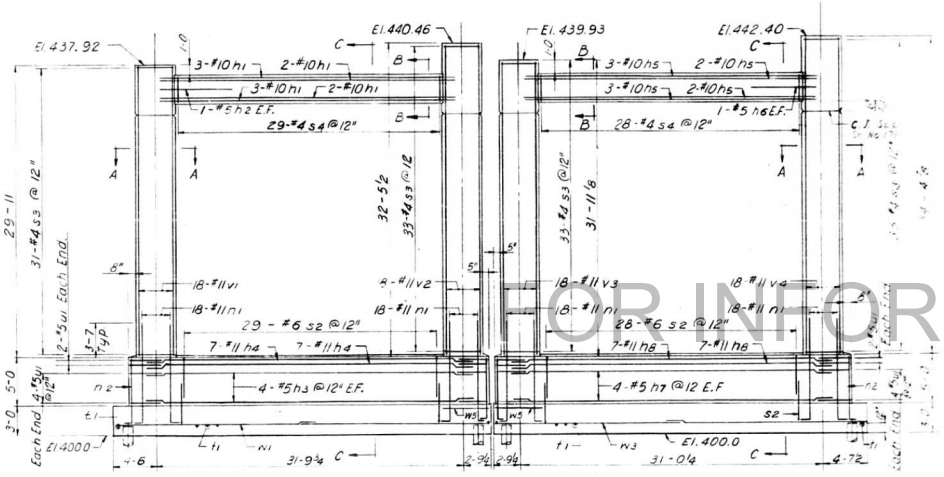
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 145 of 241

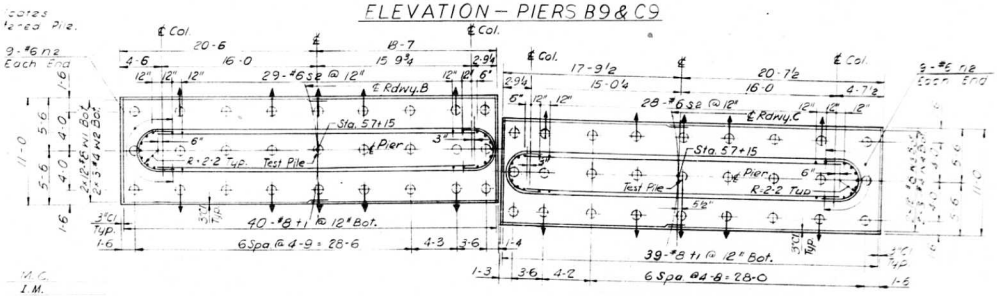
DRAWN BY M.C.
TRACED BY Geo. S. P.
CHECKED BY G.C.H.
APPROVED BY V.A.



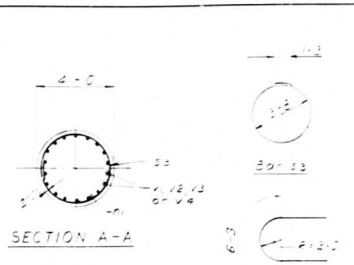
TOP PLAN - PIERS B9 & C9

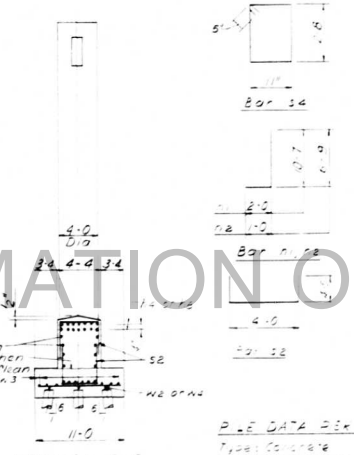


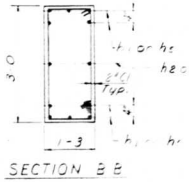
ELEVATION - PIERS B9 & C9



FOOTING PLAN PIERS B9 & C9







PILE DATA PIER B9

Type: Concrete
Regd Capacity: 32T
Est Length: 42.0
No regd: 26*
Test Pile: 1
*Does not include Test Pile

PILE DATA PIER C9

Type: Concrete
Regd Capacity: 30T
Est Length: 42.0
No regd: 26*
Test Pile: 1
*Does not include Test Pile

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F A I - 70	B2-3+V.B	ST CLAIR	23	18
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

Mark	No. Regd Pier B9	Pier C9	Size	Length	Grade
46 t	-	-	# 8	32'-0	
46 n2	8	-	# 6	30'-3	
46 n3	8	-	# 8	32'-6	
46 n4	4	-	# 11	32'-6	
46 n5	-	2	# 10	31'-4	
46 n6	-	8	# 5	29'-6	
46 n7	-	8	# 5	31'-9	
46 n8	-	14	# 11	31'-9	
46 r	28	26	# 11	12'-7	
46 n2	8	16	# 6	11'-9	
46 s2	58	56	# 6	12'-0	
46 s3	64	58	# 6	12'-5	
46 s4	32	28	# 8	31'-5	
46 v	42	38	# 8	9'-8	
46 u	12	12	# 5	9'-8	
46 v	8	-	# 11	29'-9	
46 v2	8	-	# 11	32'-9	
46 v3	-	16	# 11	31'-9	
46 v4	-	8	# 11	34'-3	
46 n1	64	-	# 8	25'-7	
46 n2	8	-	# 6	9'-7	
46 n3	-	24	# 8	22'-3	
46 n4	-	6	# 6	19'-7	

Item	Unit	Pier B9	Pier C9
Class 'A' Concrete	C.Y.	108.8	107.3
Reinforcement Bars	Lbs.	17,130	16,340
Concrete Piles	L.F.	1092*	1092*
Test Piles/Conc.	Ea.	1	1

* 1092 = 42 x 26 Reqd

For Notes See Sht. No. 7
For Geometric Layout see Sh. No. 12 & 13

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

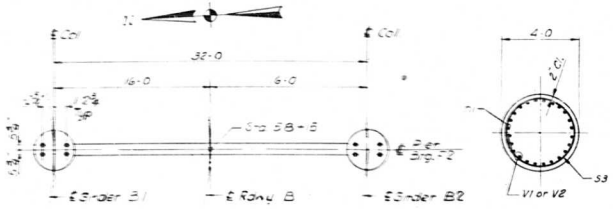
PIERS B9 AND C9

POPLAR STREET BRIDGE APPROACHES
ROADWAYS "B" AND "C"

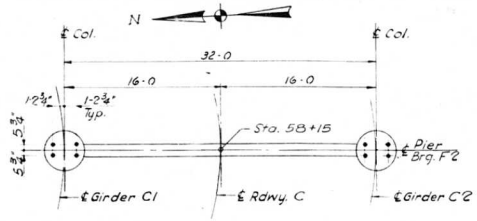
F A I RT 70 ST CLAIR CO. SECTION B2-3+V.B

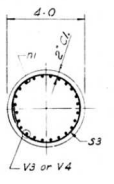
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 18 OF 24



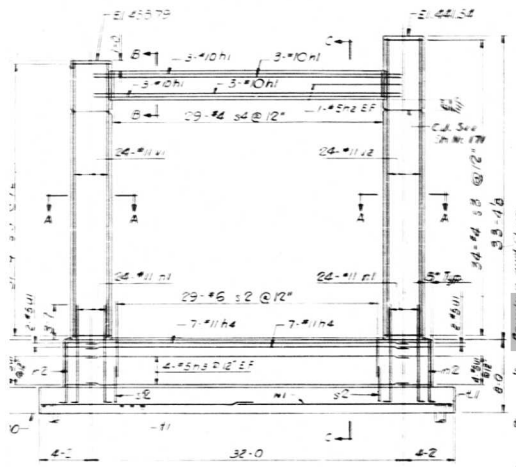
SECTION A-A



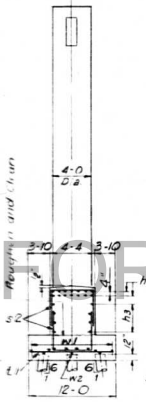


SECTION D-D

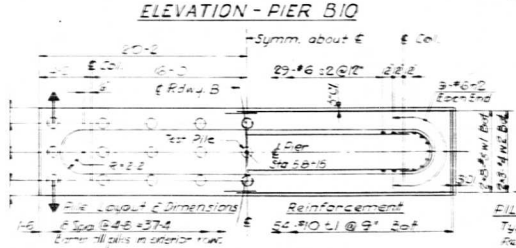
TOP PLAN - PIER B10



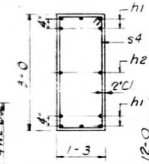
SECTION C-C



ELEVATION - PIER B10



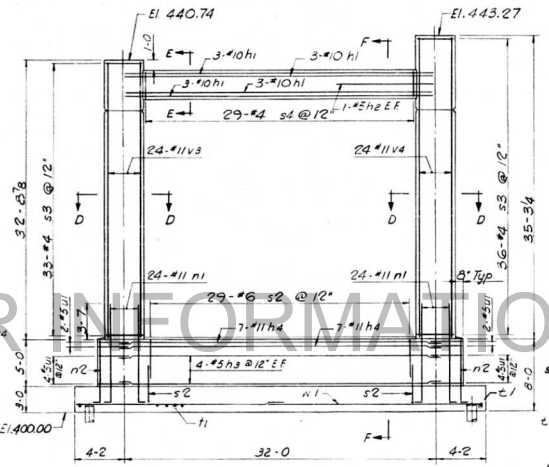
FOOTING PLAN - PIER B10



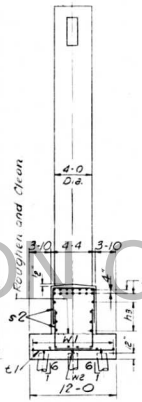
SECTION B-B

FILE DATA
Type : Concrete
Reqd. Capacity: 35T
Est. Length: 42'-0
No. Reqd.: 26*
Test Pile: 1
*Does not include Test Pile
↑ - Indicates battered pile

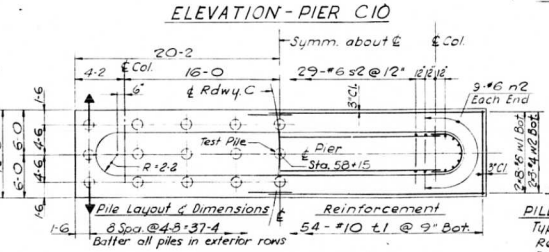
TOP PLAN - PIER C10



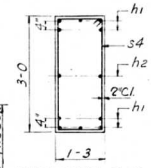
SECTION F-F



ELEVATION - PIER C10



FOOTING PLAN - PIER C10



SECTION E-E

PILE DATA
Type : Concrete
Reqd. Capacity: 35T
Est. Length: 42'-0
No. Reqd.: 26*
Test Pile: 1
*Does not include Test Pile

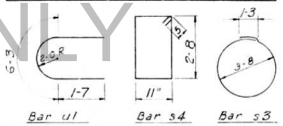
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	182
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

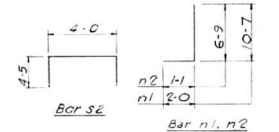
BILL OF MATERIAL

• Mark	No. Reqd Per B10	No. Reqd Per C10	Size	Length	Shape
147h1	12	12	#10	32'-4	—
147h2	2	2	# 5	30'-6	—
147h3	8	8	# 5	33'-0	—
147h4	14	14	#11	33'-0	—
147n1	48	48	#11	12'-7	L
147n2	18	18	# 6	7'-10	L
147s2	58	58	# 6	12'-10	U
147s3	65	69	# 4	12'-9	O
147s4	29	29	# 4	8'-0	▭
147t1	54	54	#10	11'-8	—
147v1	24	—	#11	30'-7	—
147v2	24	—	↓	33'-6	—
147v3	—	24	↓	32'-7	—
147v4	—	24	#11	35'-1	—
147w1	16	16	# 8	21'-3	—
147w2	6	6	# 4	20'-7	—
147u1	12	12	# 5	9'-5	⊏

• See Note 'X' Sh. No. 25

Item	Unit	Total Per B10	Total Per C10
Class 'X' Concrete	C.Y.	116.0	117.8
Reinforcement Bars	Lbs.	21,650	22,190
Concrete Piles	L.F.	1092*	1092*
Test Piles (Concrete)	Ea.	1	1





For Geometric Layout See Sh. No. 16 & 18.
For Notes see Sh. No. 171

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

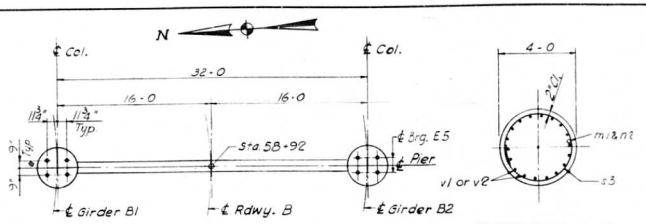
PIERS B10 AND C10

POPLAR STREET BRIDGE APPROACHES
ROADWAYS "B" AND "C"

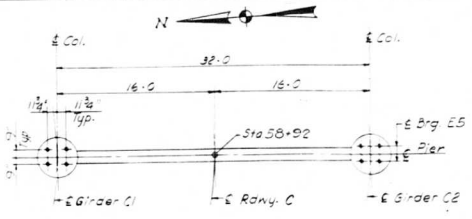
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

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

SHEET 147 of 241



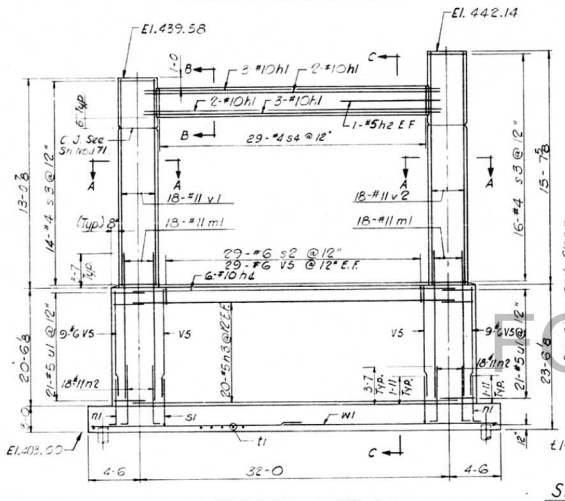
SECTION A-A



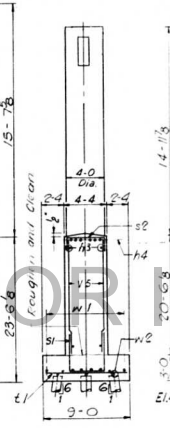
SECTION D-D

TOP PLAN - PIER BII

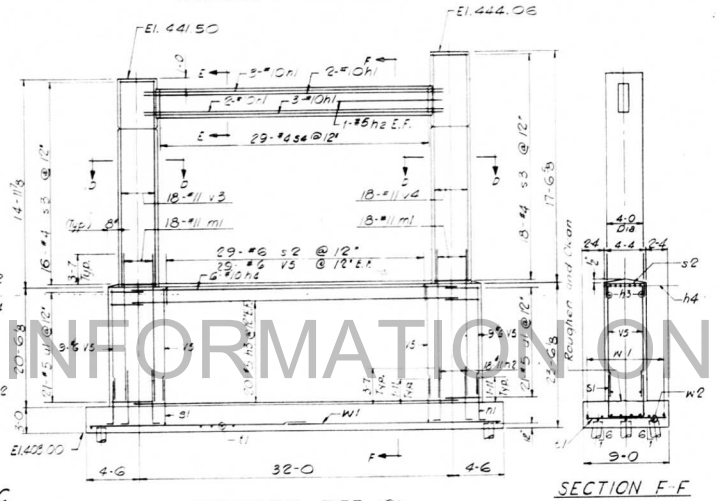
TOP PLAN - PIER CII



ELEVATION - PIER BII

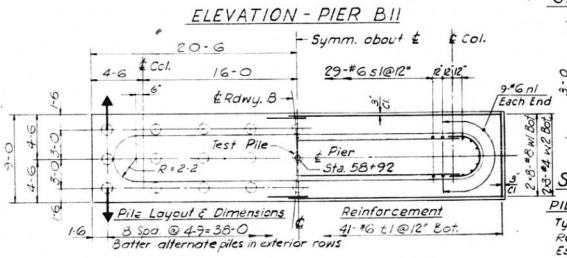


SECTION C-C

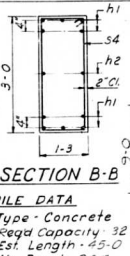


ELEVATION - PIER CII

SECTION F-F

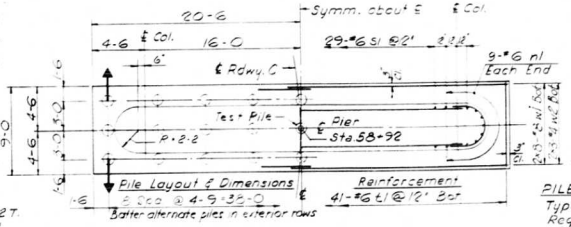


FOOTING PLAN - PIER BII

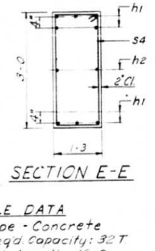


SECTION B-B

PILE DATA
Type - Concrete
Regd Capacity - 32 T.
Est. Length - 45-0
No. Regd. - 26*
Test Pile - 1
*Does not include Test Pile
-Indicates battered pile

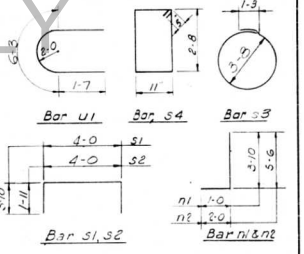


FOOTING PLAN - PIER CII



SECTION E-E

PILE DATA
Type - Concrete
Regd Capacity - 32 T
Est Length - 45-0
No. Regd. - 26*
Test Pile - 1
*Does not include Test Pile



For Geometric Layout See Sh. No. 16 & 18.
For Notes see Sh. No. 17.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I – 70	82–3HVB	ST. CLAIR	289	183
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

• Mark	No. Reqd. Pier BII	No. Reqd. Pier CII	Size	Length	Shape
148 h1	10	10	# 10	32-4	—
148 h2	2	2	# 5	30-6	—
148 h3	40	40	# 5	33-0	—
148 h4	6	6	# 10	33-0	—
148 m1	36	36	# 11	24-3	—
148 n1	18	18	# 6	4-10	L
148 n2	36	36	# 11	7-6	L
148 s1	29	29	# 6	11-8	L
148 s2	29	29	# 6	7-10	L
148 s3	30	34	# 4	12-9	O
148 s4	29	29	# 4	8-0	9
148 t1	41	41	# 6	8-8	—
148 u1	42	42	# 5	9-5	⊏
148 v1	18		# 11	19-10	—
148 v2	18			15-5	—
148 v3		18		14-9	—
148 v4		18	# 11	17-4	—
148 V5	76	76	# 6	20-3	—
148 w1	16	16	# 8	21-7	—
148 w2	6	6	# 4	21-0	—

• See Note 'X' Sh. No. 16

Item	Unit	Total Pier BII	Total Pier CII
Class 'X' Concrete	C.Y.	177.3	179.1
Reinforcement Bars	Lbs.	18,110	18,510
Concrete Piles	L.F.	1170	1170
Test Piles (Concrete)	Ea.	1	1

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

PIERS BII AND CII

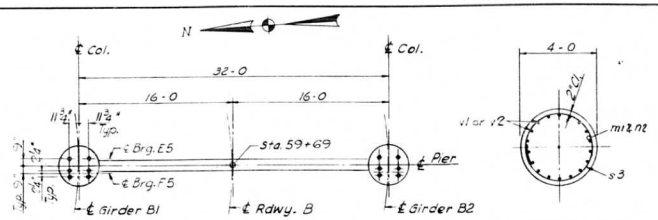
POPLAR STREET BRIDGE APPROACHES
ROADWAYS "B" AND "C"

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

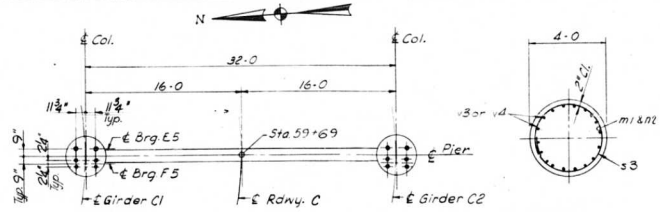
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 148 of 241

DESIGNED BY: M.C.
DRAWN BY: Geo. S. D.
CHECKED BY: G.C.H.
APPROVED BY: K.A.

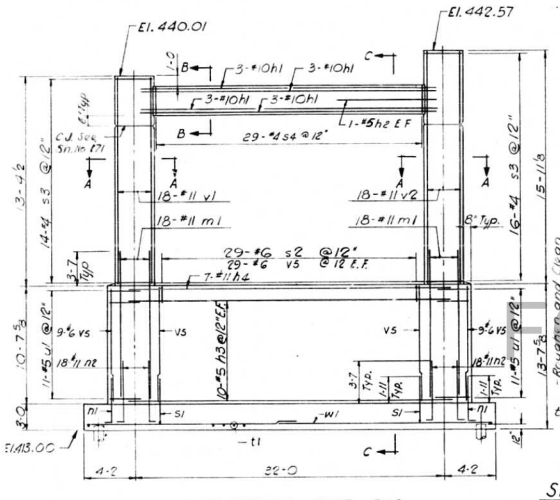


SECTION A-A

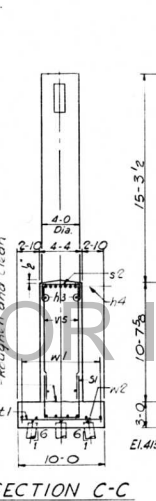


SECTION D-D

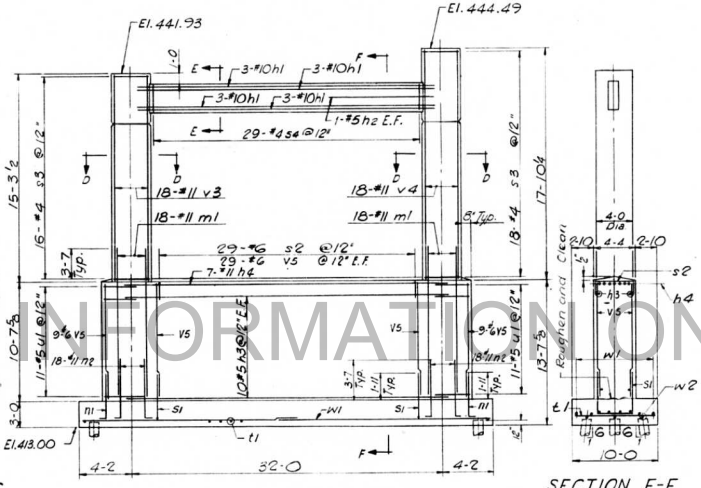
TOP PLAN - PIER B12



SECTION C-C

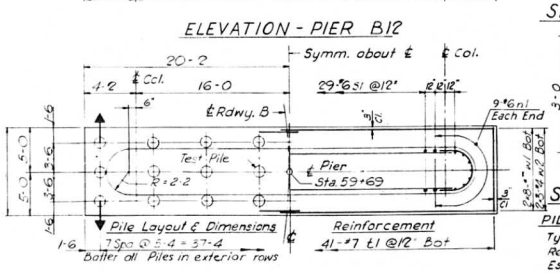


TOP PLAN - PIER C12



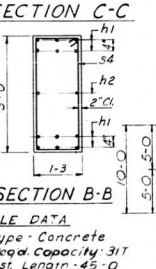
SECTION F-F

ELEVATION - PIER B12

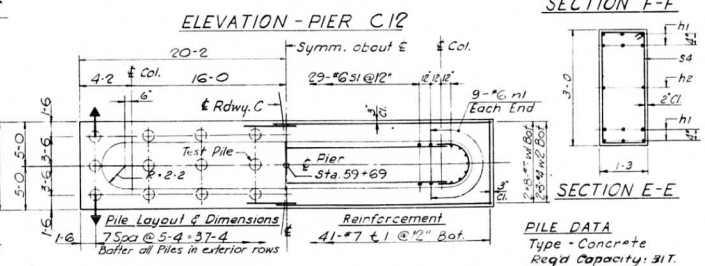


FOOTING PLAN - PIER B12

SECTION B-B



ELEVATION - PIER C12



FOOTING PLAN - PIER C12

SECTION E-E

PILE DATA
Type - Concrete
Reqd. Capacity: 31T.
Est. Length - 45'0
No. Reqd. - 23 *
Test Pile - 1
* Does not include Test Pile

PILE DATA
Type - Concrete
Reqd. Capacity: 31T.
Est. Length - 45'0
No. Reqd. - 23 *
Test Pile - 1
* Does not include Test Pile

△ — Indicates battered pile

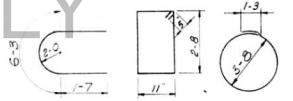
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I-70	82-3HVB	ST. CLAIR	289	184
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

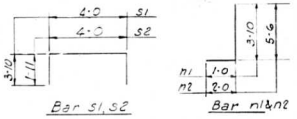
BILL OF MATERIAL

• Mark	No. Reqd. Pier B12	No. Reqd. Pier C12	Size	Length	Shape
149 n1	12	12	# 10	52'4	—
149 h2	2	2	# 5	30'6	—
149 h3	20	20	# 5	33'0	—
149 h4	7	7	#11	33'0	—
149 m1	36	36	#11	14'3	—
149 n1	18	18	# 6	4'10	⌐
149 n2	36	36	#11	7'6	—
149 s3	29	29	# 6	11'8	⌐
149 s3	29	29	# 6	7'10	⌐
149 s3	30	34	# 4	12'9	○
149 s4	29	29	# 4	8'0	□
149 s1	41	41	# 7	9'8	—
149 u1	22	22	# 5	9'5	∪
149 v1	18	—	#11	13'2	—
149 v2	18	—	↓	15'9	—
149 v3	—	18	↓	15'1	—
149 v4	—	18	#11	17'8	—
149 v5	76	76	# 6	10'5	—
149 w1	16	16	# 7	8'1	—
149 w2	6	6	# 4	20'8	—

* 233 Cubic Yards "X" Sh. No. 28

Item	Unit	Total Pier B12	Total Pier C12
Class 'X' Concrete	C.Y.	123.8	125.6
Reinforcement Bars	Lbs.	14,950	15,350
Concrete Piles	L.F.	1035 *	1035 *
Test Piles (Concrete)	Ea.	1	1





For Geometric Layout See Sh. No. 16-16.
For Notes see Sh. No. 171

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

PIERS B12 AND C12

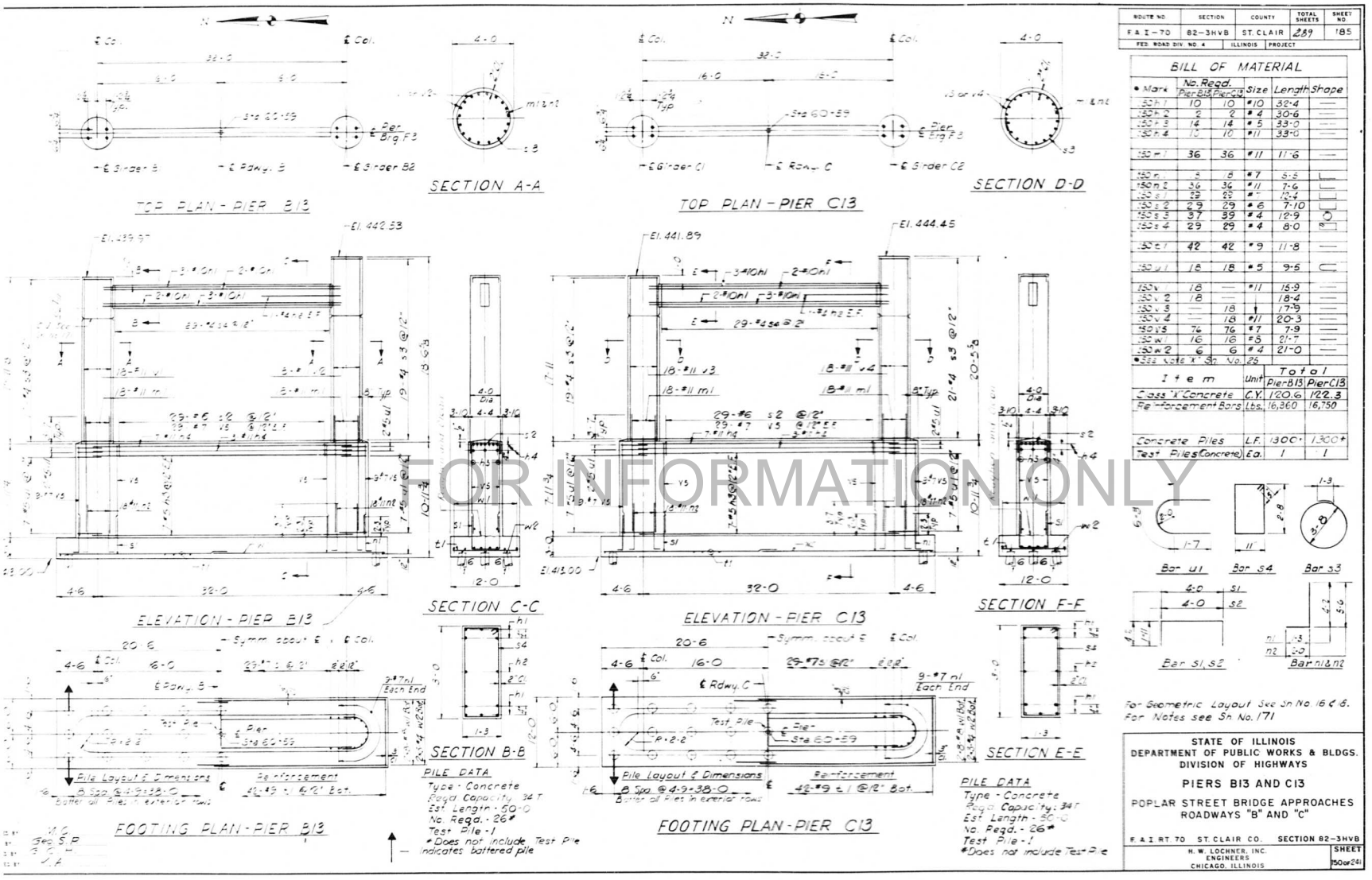
POPLAR STREET BRIDGE APPROACHES
ROADWAYS "B" AND "C"

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

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

SHEET 149 of 241

SIGNED BY M.C.
DRAWN BY Geo. S. P.
CHECKED BY G.C.H.
APPROVED BY K.A.



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	185
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

BILL OF MATERIAL

Mark	No. Regd. Pier B13	No. Regd. Pier C13	Size	Length	Shape
150 h1	10	10	#10	32'-4	—
150 h2	2	2	# 4	30'-6	—
150 h3	14	14	# 5	33'-0	—
150 h4	10	10	#11	33'-6	—
150 m1	36	36	#11	11'-6	—
150 n	8	8	#7	5'-5	L
150 n1	36	36	#11	7'-6	L
150 s	88	88	# -	1'-4	—
150 s2	29	29	# 6	7'-10	—
150 s3	37	39	# 4	12'-9	○
150 s4	29	29	# 4	8'-0	⊓
150 s1	42	42	# 9	11'-8	—
150 u1	18	18	# 5	9'-5	⊂
150 v	18	—	#11	15'-9	—
150 v2	18	—		18'-4	—
150 v3	—	18		17'-9	—
150 v4	—	18	#11	20'-3	—
150 v5	76	76	# 7	7'-9	—
150 w1	16	16	# 5	21'-7	—
150 w2	6	6	# 4	21'-0	—

*See Note 'K' Sh. No. 26

Item	Unit	Total Pier B13	Total Pier C13
Class 'X' Concrete	C.Y.	120.6	122.3
Reinforcement Bars	Lbs.	16,360	16,750
Concrete Piles	L.F.	1300*	1300*
Test Piles (Concrete)	Ea.	1	1

For Geometric Layout See Sh No. 16 & 6.
For Notes see Sh No. 171

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

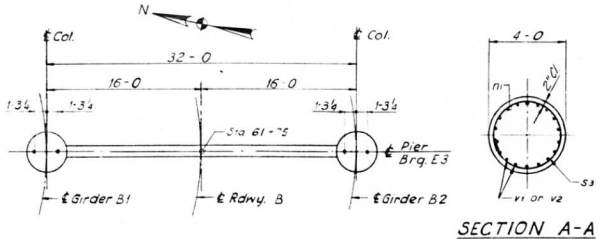
PIERS B13 AND C13

POPLAR STREET BRIDGE APPROACHES
ROADWAYS "B" AND "C"

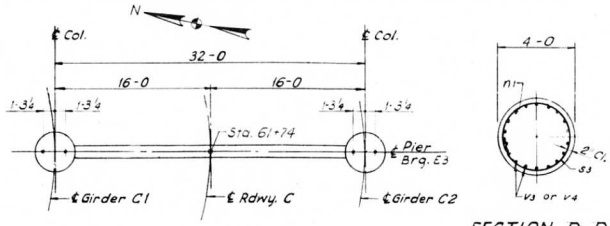
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

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

SHEET 150 OF 241



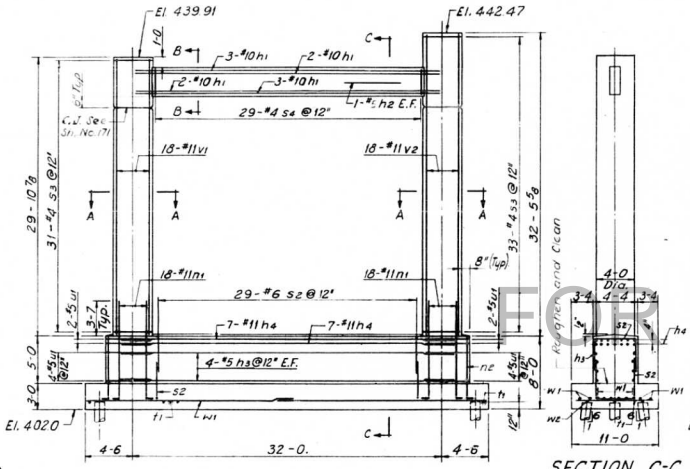
SECTION A-A

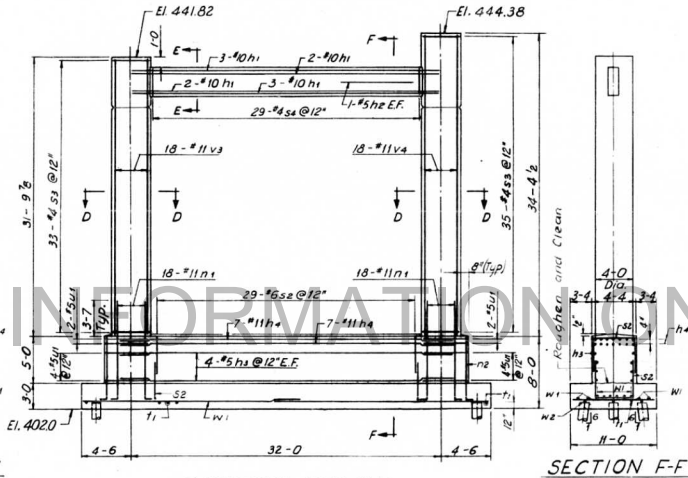


SECTION D-D

TOP PLAN - PIER B14

TOP PLAN - PIER C14





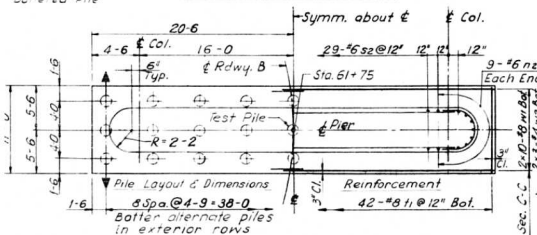
SECTION C-C

SECTION F-F

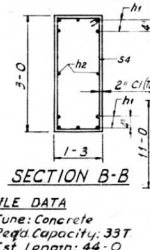
Indicates Battered Pile

ELEVATION - PIER B14

ELEVATION - PIER C14



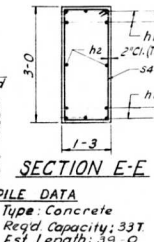
FOOTING PLAN - PIER B14



SECTION B-B

PILE DATA
Tune: Concrete
Reqd. Capacity: 33T
Est. Length: 44-0
No. Reqd: 26*
Test Pile: 1
* Does not include Test Pile

FOOTING PLAN - PIER C14



SECTION E-E

PILE DATA
Type: Concrete
Reqd. Capacity: 33T
Est. Length: 39-0
No. Reqd.: 26*
Test Pile: 1
* Does not include Test Pile

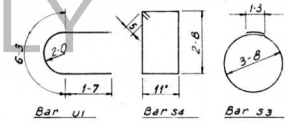
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	186
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

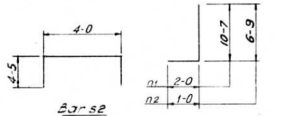
• Mark	No. Reqd. Pier B14	No. Reqd. Pier C14	Size	Length	Shape
151 h1	10	10	#10	32-4	—
151 h2	2	2	#5	30-6	—
151 h3	8	8	#5	33-0	—
151 h4	14	14	#11	33-0	—
151 n1	36	36	#11	12-7	L
151 n2	18	18	#6	7-9	L
151 s2	58	58	#6	12-10	⌐
151 s3	64	68	#4	12-9	○
151 s4	29	29	#4	8-0	□
151 t1	42	42	#8	10-6	—
151 u1	12	12	#5	9-5	⊂
151 v1	18	-	#11	29-8	—
151 v2	18	-	#11	32-3	—
151 v3	-	18	#11	31-7	—
v4	-	18	#11	34-2	—
151 w1	20	20	#8	21-7	—
151 w2	6	6	#4	20-11	—

• See Note "X" Sh. No. 23

Item	Unit	Total Pier B14	Total Pier C14
Class "X" Concrete	C.Y.	111.6	113.3
Reinforcement Bars	Lbs.	17,070	17,470
Concrete Piles	L.F.	1144*	1014*
Test Piles (Concrete)	Ea.	1	1



Bar u1 Bar s4 Bar s3



Bar s2 Bar n1, n2

For Geometric Layout See Sh. No. 16 & 18.
For Notes see Sh. No. 171

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

PIERS B14 AND C14

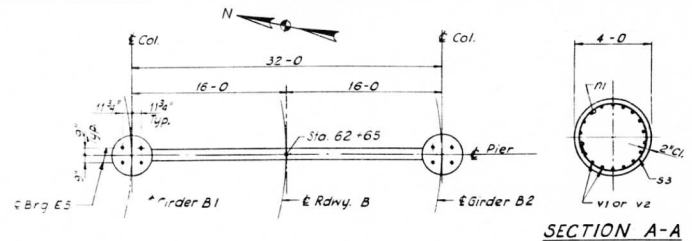
POPLAR STREET BRIDGE APPROACHES
ROADWAYS "B" AND "C"

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

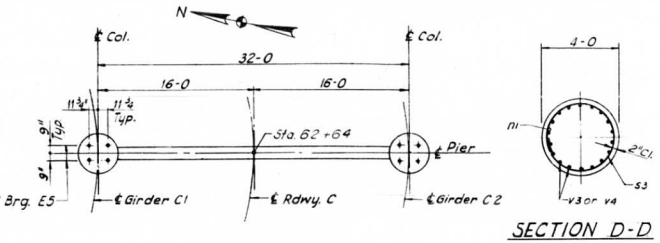
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 151 of 241

SIGNED BY M.C.
AWN BY I.M.
ECKED BY G.C.H.
PROVED BY L.A.

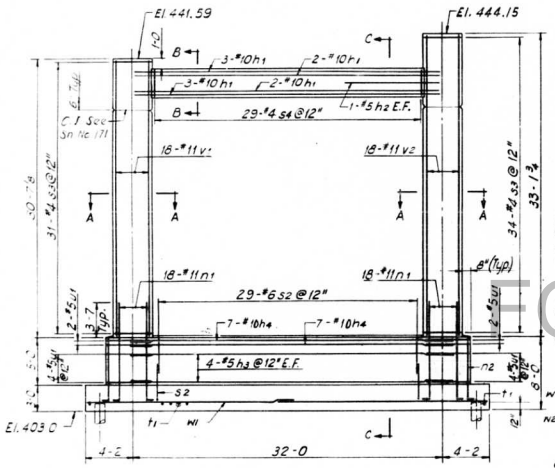


SECTION A-A

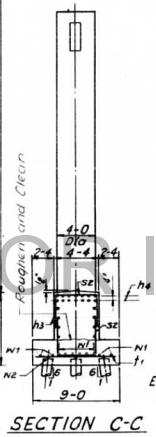


SECTION D-D

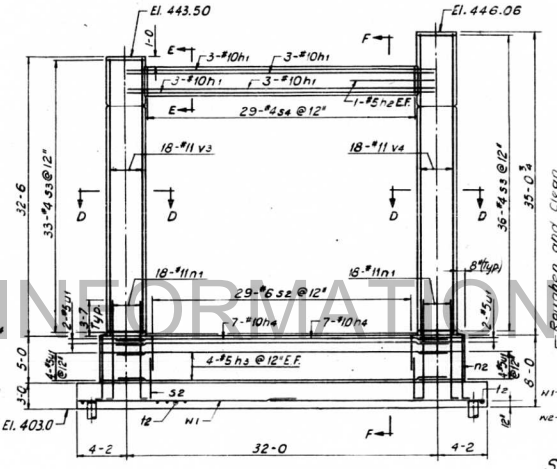
TOP PLAN - PIER B15



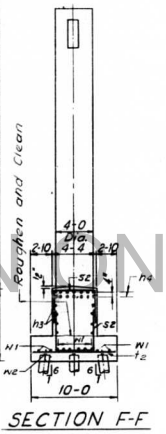
SECTION C-C



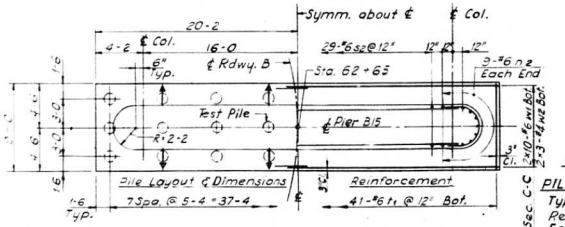
TOP PLAN - PIER C15



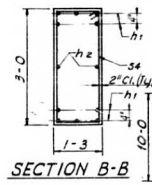
SECTION F-F



ELEVATION - PIER B15



FOOTING PLAN - PIER B15



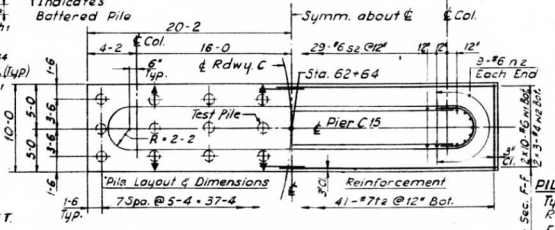
SECTION B-B

PILE DATA
Type: Concrete
Reqd. Capacity: 26 T.
Est. Length: 50-0
No. Reqd: 23*
Test Pile: 1
*Does not include Test Pile

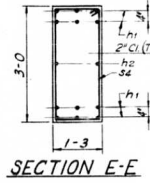
See Sec. C-C

↑ Indicates Battered Pile

ELEVATION - PIER C15



FOOTING PLAN - PIER C15



SECTION E-E

PILE DATA
Type: Concrete
Reqd. Capacity: 31 T.
Est. Length: 50-0
No. Reqd.: 23*
Test Pile: 1
*Does not include Test Pile

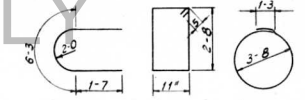
See Sec. F-F

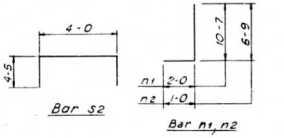
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	287	187
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

BILL OF MATERIAL

* Mark	No. Reqd. Pier B15	No. Reqd. Pier C15	Size	Length	Shape
152 h1	10	12	#10	32-4	—
152 h2	2	2	#5	30-6	—
152 h3	8	8	#5	33-0	—
152 h4	14	14	#10	33-0	—
152 n1	36	36	#11	12-7	L
152 n2	16	18	#6	7-9	L
152 s2	58	58	#6	12-10	[]
152 s3	65	69	#4	12-9	○
152 s4	29	29	#4	8-0	□
152 t1	41	-	#6	8-6	—
152 t2	-	41	#7	9-6	—
152 u1	12	12	#5	9-5	⊂
152 v1	18	-	#11	30-5	—
152 v2	18	-	#11	32-11	—
152 v3	-	18	#11	32-4	—
152 v4	-	18	#11	34-10	—
152 w1	20	20	#6	21-0	—
152 w2	6	6	#4	20-7	—

Item	Unit	Total Pier B15	Total Pier C15
Class 'X' Concrete	C.Y.	102.5	108.8
Reinforcement Bars	Lbs.	15,570	16,520
Concrete Piles	L.F.	1150*	1150*
Test Piles (Concrete)	Ea.	1	1





• See Note "X" Sh. No. 25
For Geometric Layout See Sh. No. 16 & 18
For Notes see Sh. No. 171

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

PIERS B15 AND C15

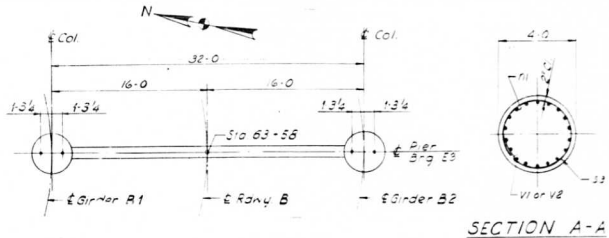
POPLAR STREET BRIDGE APPROACHES
ROADWAYS "B" AND "C"

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

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

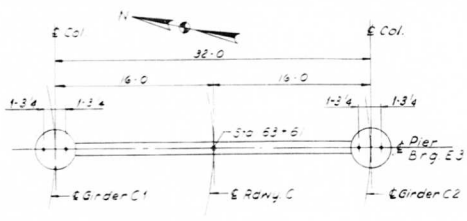
SHEET 152 of 241

DESIGNED BY M.C.
DRAWN BY E.M.
CHECKED BY S.C.H.
APPROVED BY K.E.

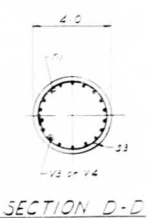


TOP PLAN - PIER B16

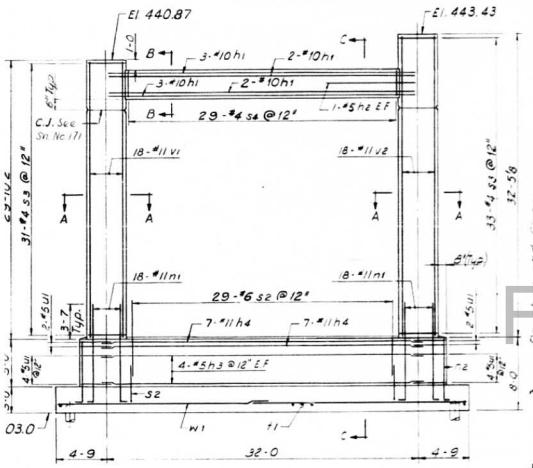
SECTION A-A



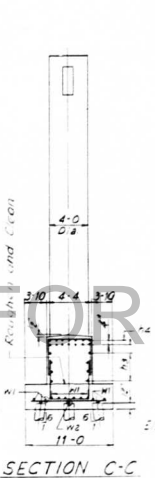
TOP PLAN - PIER C16



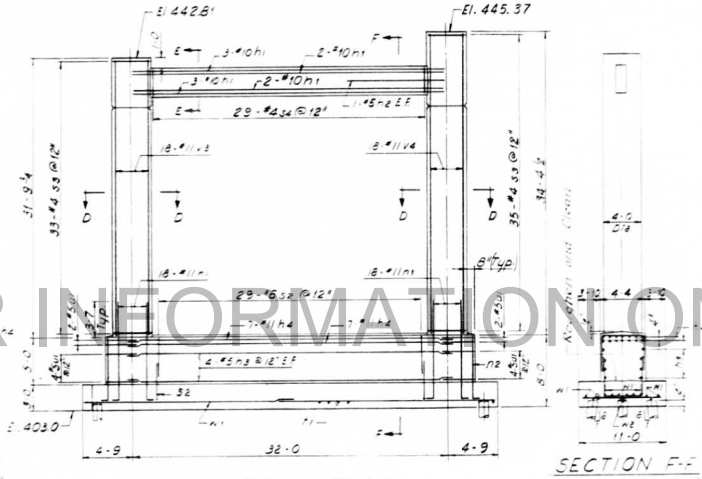
SECTION D-D



ELEVATION - PIER B16

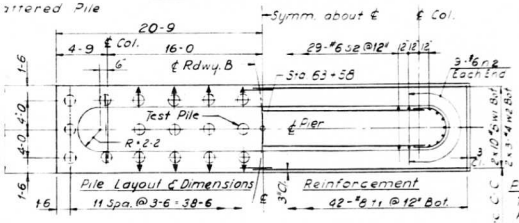


SECTION C-C

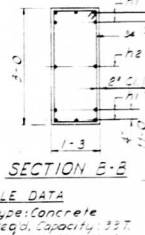


ELEVATION - PIER C16

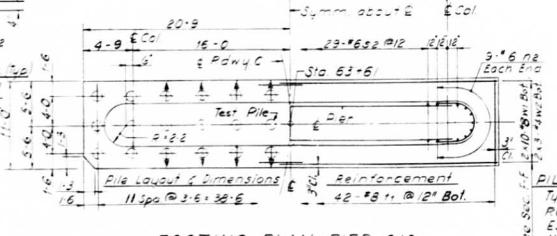
SECTION F-F



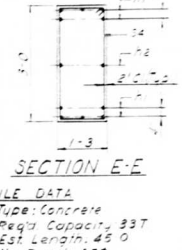
FOOTING PLAN - PIER B16



SECTION B-B



FOOTING PLAN - PIER C16



SECTION E-E

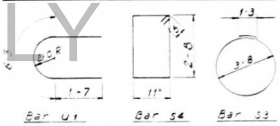
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I -70	82-3HVB	ST. CLAIR	289	186
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

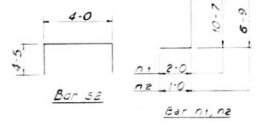
BILL OF MATERIAL

* Mark	No. Reqd. Pier B16	No. Reqd. Pier C16	Size	Length	Shape
153 h1	10	10	#10	24'-4	
153 h2	2	2	#5	30'-6	
153 h3	8	8	#5	33'-0	
153 h4	14	14	#11	33'-0	
153 n1	36	36	#11	12'-7	
153 n2	18	18	#6	7'-9	
153 s2	58	58	#6	12'-10	
153 s3	64	66	#4	12'-9	
153 s4	29	29	#4	8'-0	
153 t1	42	42	#8	10'-6	
153 u1	12	12	#5	5'-5	
153 v1	18	-	#11	29'-8	
153 v2	18	-	#11	32'-3	
153 v3	-	18	#11	31'-7	
153 v4	-	18	#11	34'-2	
153 w1	20	20	#8	21'-10	
153 w2	6	6	#4	21'-2	

* See Note X Sh. No. 25

Item	Unit	Total Pier B16	Total Pier C16
Class "X" Concrete	CY	111.9	113.6
Reinforcement Bars, Lbs.		17,190	17,570
Concrete Piles	LF	1575 *	1575 *
Test Piles (Concrete)	Ea.	1	1





For Geometric Layout See Sh. No. 16 & 18.
For Notes see Sh. No. 171

PILE DATA
Type: Concrete
Reqd. Capacity 93 T
Est. Length 45'-0
No. Reqd.: 35*
Test Pile: 1
* Does not include Test Pile

PILE DATA
Type: Concrete
Reqd. Capacity 93 T
Est. Length 45'-0
No. Reqd.: 35*
Test Pile: 1
* Does not include Test Pile

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

PIERS B16 AND C16

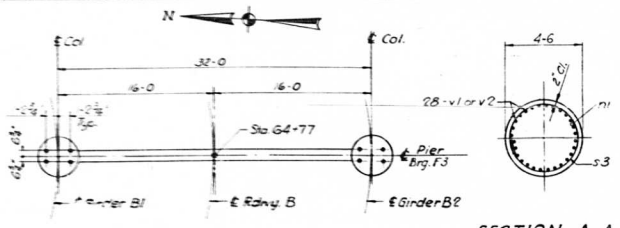
POPLAR STREET BRIDGE APPROACHES
ROADWAYS "B" AND "C"

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

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

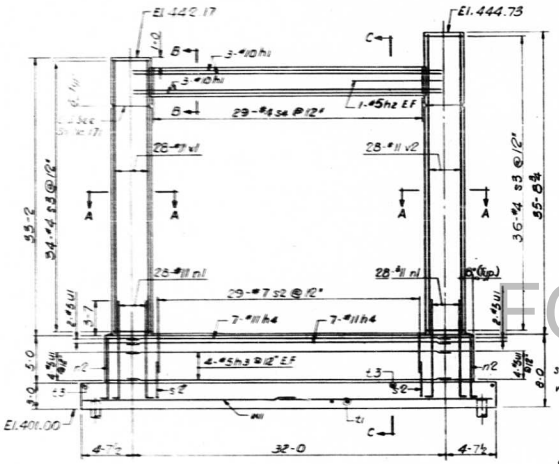
SHEET 153 of 241

M.C.
E.M.
G.C.H.

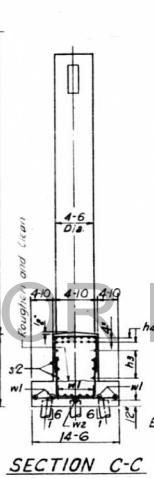


SECTION A-A

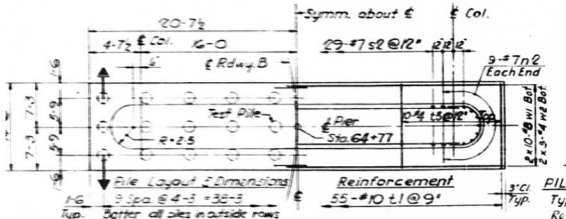
TOP PLAN - PIER B17



SECTION C-C

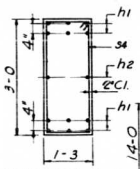


ELEVATION - PIER B17

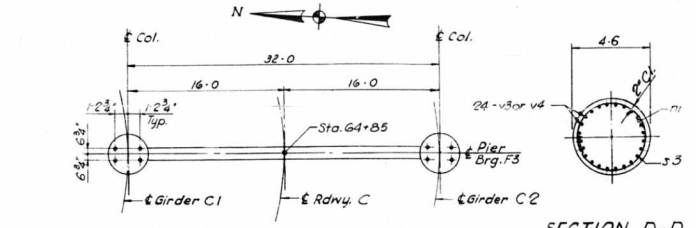


FOOTING PLAN - PIER B17

SECTION B-B

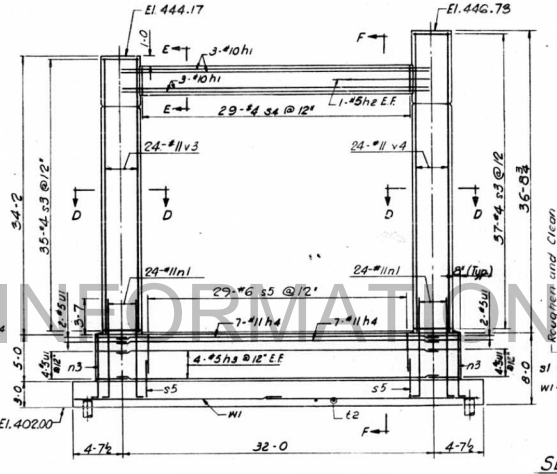


PILE DATA
Type : Concrete
Req'd Capacity: 35 T.
Est. Length: 45'-0
No. Req'd: 29*
Test Pile: 1
*Does not include Test Pile
-indicates battered pile

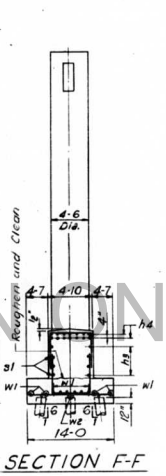


SECTION D-D

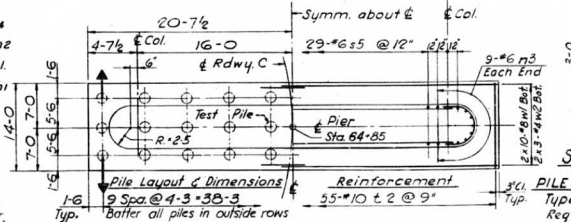
TOP PLAN - PIER C17



SECTION F-F

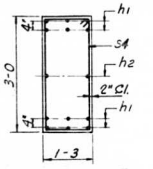


ELEVATION - PIER C17



FOOTING PLAN - PIER C17

SECTION E-E



PILE DATA
Type : Concrete
Req'd Capacity: 35 T.
Est. Length: 49'-0
No. Req'd.: 29*
Test Pile: 1
* Does not include Test Pile

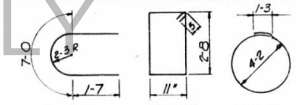
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	189
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

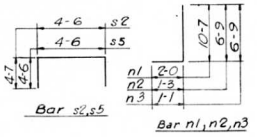
BILL OF MATERIAL

•Mark	No. Req'd. Pier B17	No. Req'd. Pier C17	Size	Length	Shape
154 h1	12	12	#10	32-4	—
154 h2	2	2	#5	30-6	—
154 h3	8	8	#5	33-0	—
154 h4	14	14	#11	33-0	—
154 n1	56	48	#11	12-7	⌐
154 n2	18	—	#7	8-0	⌐
154 n3	—	18	#6	7-10	⌐
154 s2	58	—	#7	13-6	⌐
154 s3	70	72	#4	14-4	○
154 s4	29	29	#4	8-0	□
154 s5	—	58	#6	13-6	□
154 t1	55	—	#10	14-2	—
154 t2	—	55	#10	13-10	—
154 t3	20	—	#4	14-2	—
154 u1	12	12	#5	10-2	⊂
154 v1	28	—	#11	33-0	—
154 v2	28	—	#11	35-6	—
154 v3	—	24	#11	34-0	—
154 v4	—	24	#11	36-6	—
154 w1	20	20	#8	21-8	—
154 w2	6	6	#4	21-1	—

•See Note 'X' Sh. No. 25

Item	Unit	Total Pier B17	Total Pier C17
Class 'X' Concrete	C.Y.	143.1	141.9
Reinforcement Bars	Lbs.	26,050	23,530
Concrete Piles	L.F.	1392 *	1421 *
Test Piles (Concrete)	Ea.	1	1





for Geometric Layout See Sh. No. 16 & 18
for Notes see Sh. No. 171

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

PIERS B17 AND C17

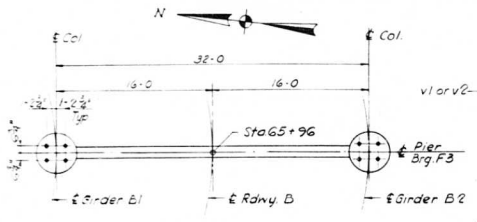
POPLAR STREET BRIDGE APPROACHES
ROADWAYS "B" AND "C"

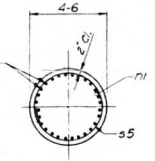
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

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

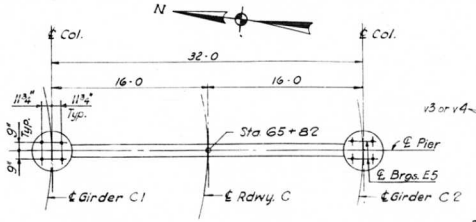
SHEET 154 or 241

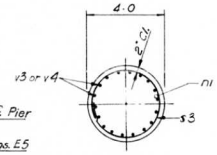
SIGNED BY M.C.
DRAWN BY Geo. S. P.
CHECKED BY E.C.H.





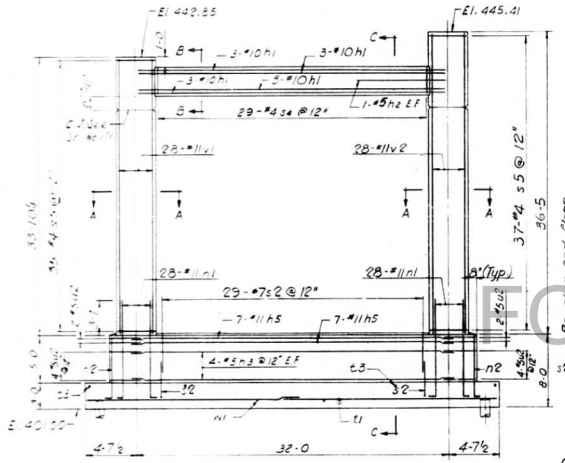
SECTION A-A

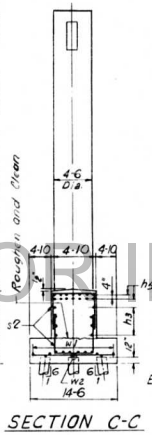




SECTION D-D

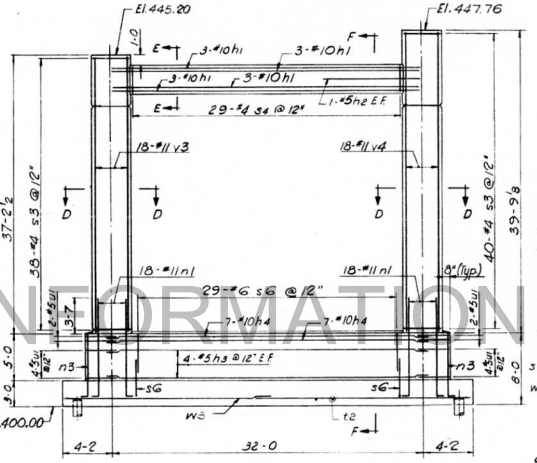
TOP PLAN - PIER B18

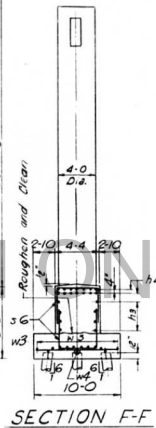




SECTION C-C

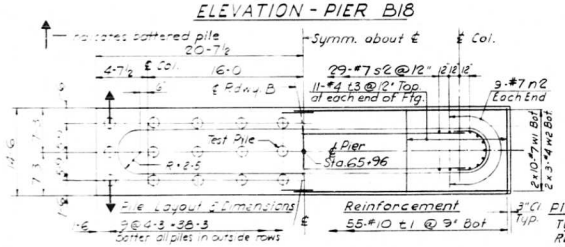
TOP PLAN - PIER C18



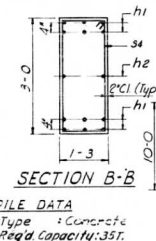


SECTION F-F

ELEVATION - PIER B18

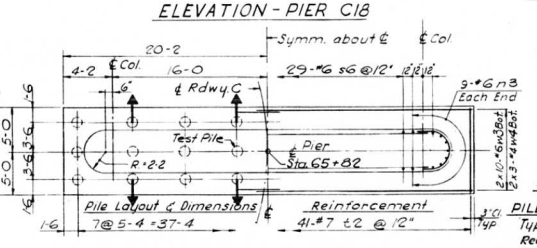


FOOTING PLAN - PIER B18

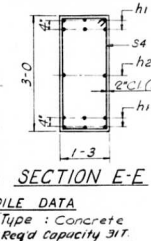


SECTION B-B

ELEVATION - PIER C18



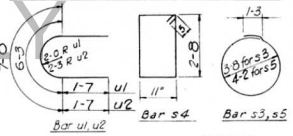
FOOTING PLAN - PIER C18

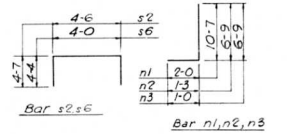


SECTION E-E

PILE DATA
Type : Concrete
Req'd Capacity: 35T.
Est. Length: 45'-0
No. Reqd: 29*
Test Pile: 1
*Does not include Test Pile

PILE DATA
Type : Concrete
Req'd Capacity 31T
Est. Length: 47'-0
No. Reqd.: 23*
Test Pile: 1
* Does not include Test Pile





• See Note "X" Sh. No. 25
For Geometric Layout See Sh. No. 16 & 18
For Notes see Sh. No. 171

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	190
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

• Mark	No. Reqd. Pier B18	No. Reqd. Pier C18	Size	Length	Shape
155 h1	12	12	#10	32-4	—
155 h2	2	2	# 5	30-6	—
155 h3	8	8	# 5	33-0	—
155 h4	—	14	#10	33-0	—
155 n1	56	36	#11	12-7	L
155 n2	18	—	# 7	8-0	L
155 n3	—	18	# 6	7-9	L
155 s2	58	—	# 7	13-8	L
155 s3	—	78	# 4	12-9	L
155 s4	29	29	# 4	8-0	⊏
155 s5	72	—	# 4	14-4	⊏
155 s6	—	58	# 6	12-8	L
155 h5	14	—	#11	33-0	—
155 t1	55	—	#10	14-2	—
155 t2	—	41	# 7	9-8	—
155 t3	22	—	# 4	14-2	—
155 u1	—	12	# 5	9-5	⊏
155 v1	28	—	#11	33-8	—
155 v2	28	—		36-3	—
155 v3	—	18		37-0	—
155 v4	—	18		39-7	—
155 w1	20	—	#7	21-6	—
155 w2	6	—	# 4	21-0	—
155 w3	—	20	#6	21-0	—
155 w4	—	6	# 4	20-7	—
155 u2	12	—	# 5	10-2	⊏

Item	Unit.	Total Pier B18	Total Pier C18
Class "X" Concrete	C.Y.	143.9	113.1
Reinforcement Bars	Lbs.	25,890	17,500
Concrete Piles	L.F.	1305 *	1081 *
Test Piles (Concrete)	Ea.	1	1

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

PIERS B18 AND C18

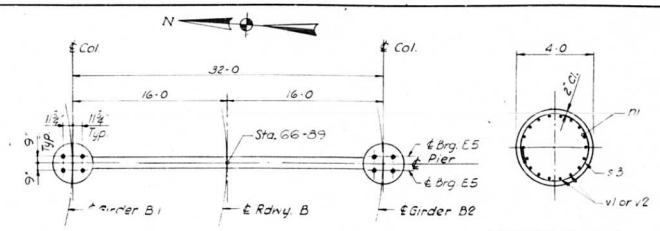
POPLAR STREET BRIDGE APPROACHES
ROADWAYS "B" AND "C"

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

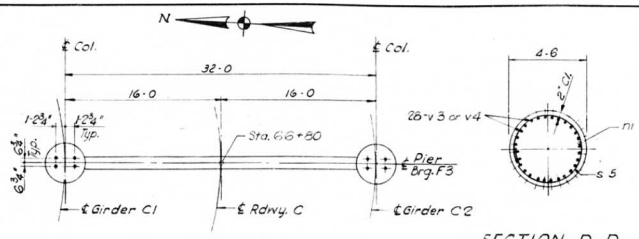
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 155 of 241

DESIGNED BY
DRAWN BY
CHECKED BY

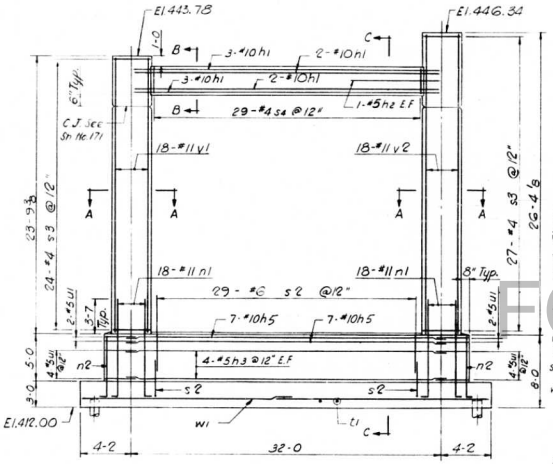


SECTION A-A

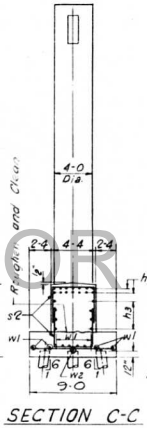


SECTION D-D

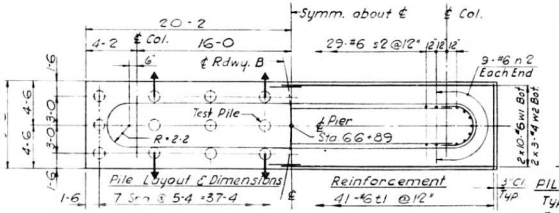
TOP PLAN - PIER B19



SECTION C-C

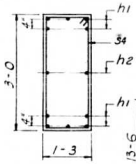


ELEVATION - PIER B19

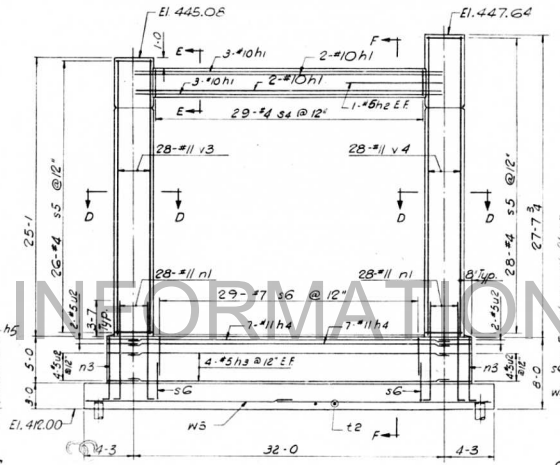


FOOTING PLAN - PIER B19

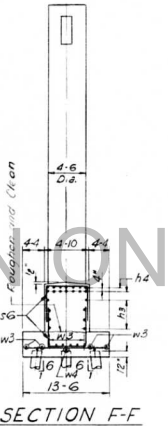
SECTION B-B



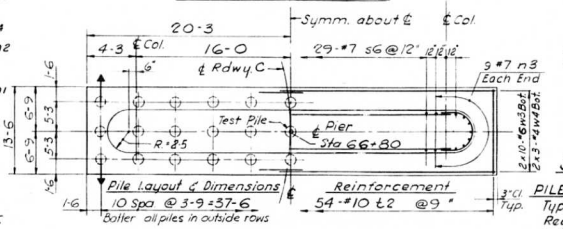
TOP PLAN - PIER C19



SECTION F-F

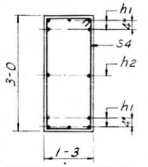


'ELEVATION - PIER C19



FOOTING PLAN - PIER C19

SECTION E-E



PILE DATA
Type : Concrete
Reqd Capacity: 28 T.
Est. Length: 44-0
No. Reqd: 23*
Test Pile: 1
*Does not include Test Pile
↑ - Indicates battered pile

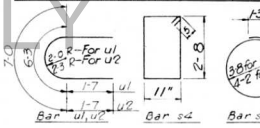
PILE DATA
Type : Concrete
Reqd Capacity 34 T.
Est. Length 51-0
No. Reqd.: 32*
Test Pile: 1
*Does not include Test Pile

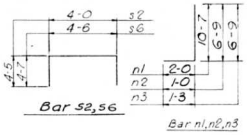
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	287	191
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

• Mark	No. Reqd. Pier B19	No. Reqd. Pier C19	Size	Length	Shape
156 h1	10	10	# 10	32-4	—
156 h2	2	2	# 5	30-6	—
156 h3	8	8	# 5	33-0	—
156 h4		14	# 11	33-0	—
156 n1	36	56	# 11	12-7	L
156 n2	18	—	# 6	7-9	L
156 n3	—	18	# 7	8-0	L
156 h5	14	—	# 10	33-0	—
156 s2	58	—	# 6	12-10	L
156 s3	51	—	# 4	12-9	○
156 s4	29	29	# 4	8-0	○
156 s5	—	54	# 4	14-4	○
156 s6	—	58	# 7	13-8	L
156 t1	41	—	# 6	8-8	L
156 t2	—	54	# 10	13-2	L
156 u1	12	—	# 5	9-5	U
156 u2	—	12	# 5	10-2	U
156 v1	18	—	# 11	23-7	—
156 v2	18	—		26-2	—
156 v3	—	28		24-10	—
156 v4	—	28		27-5	—
156 w1	20	—	# 6	21-0	L
156 w2	6	—	# 4	20-7	L
156 w3	—	20	# 6	21-1	L
156 w4	—	6	# 4	20-9	L

Item	Unit	Total Pier B19	Total Pier C19
Class 'X' Concrete	C.Y.	96.2	127.7
Reinforcement Bars	Lbs.	14,160	22,190
Concrete Piles	L.F.	1012 *	1632*
Test Piles (Concrete)	Ea.	1	1





• See Note 'X' Sh. No. 25
For Geometric Layout See Sh. No. 16 & 18
For Notes see Sh. No. 171

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

PIERS B19 AND C19

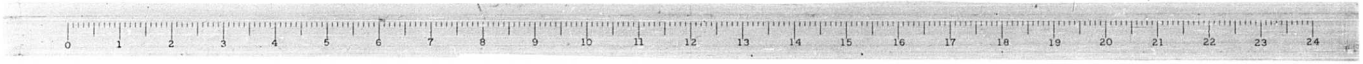
POPLAR STREET BRIDGE APPROACHES
ROADWAYS "B" AND "C"

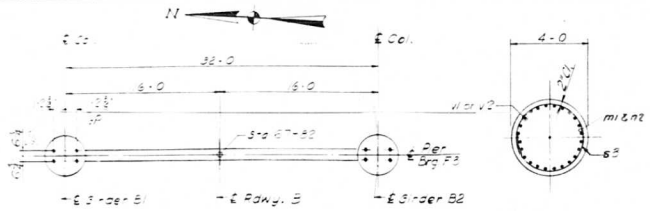
F. A. I. RT. 70 ST. CLAIR CO SECTION 82-3HVB

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

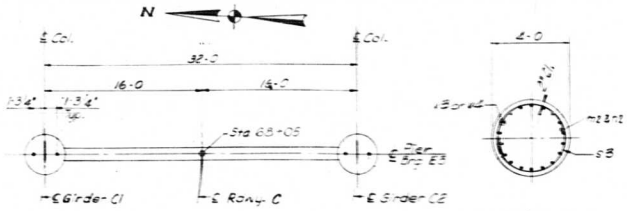
SHEET 156 of 241

DESIGNED BY A.C.
DRAWN BY Geo. S.P.
CHECKED BY S.C.H.
APPROVED BY V.H.



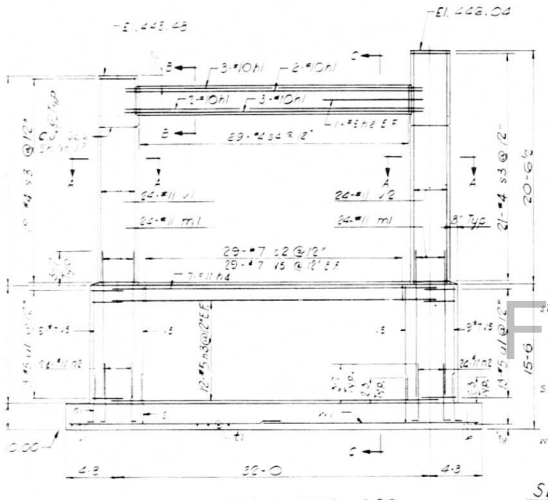


SECTION A-A

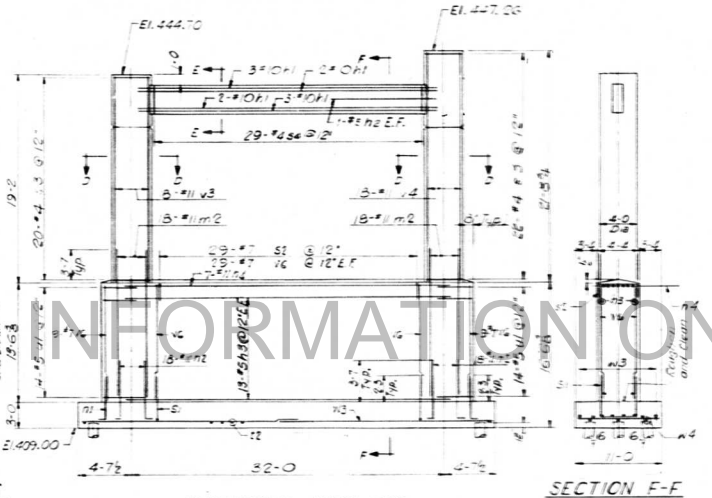


SECTION D-D

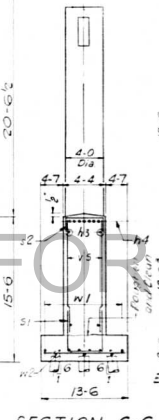
TOP PLAN - PIER B20



TOP PLAN PIER C20

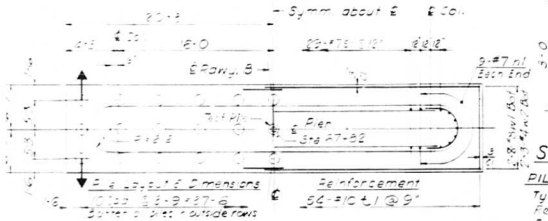


SECTION C-C

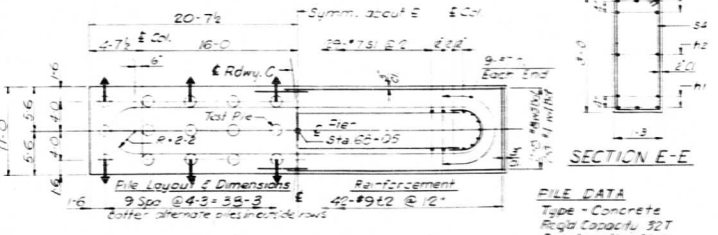


SECTION E-F

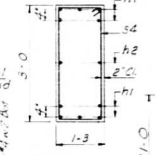
ELEVATION - PIER B20



ELEVATION - PIER C20



SECTION B-B



SECTION E-E

PILE DATA

Type - Concrete
Reqd Capacity 35T
Est. Length - 47-0
No. Reqd. - 32*
Test Pile - 1
* Does not include Test Pile

▲ - Indicates Battered Pile

FOOTING PLAN - PIER B20

FOOTING PLAN - PIER C20

PILE DATA

Type - Concrete
Reqd Capacity 32T
Est. Length - 46-0
No. Reqd. - 29*
Test Pile - 1
* Does not include Test Pile

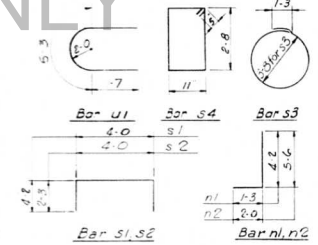
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	192
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

BILL OF MATERIAL

• Mark	No. Reqd. Pier B20	No. Reqd. Pier C20	Size	Length	Shape
157 h1	10	10	# 10	32-4	—
157 h2	2	2	# 5	30-5	—
157 h3	24	26	# 5	33-0	—
157 h4	7	7	# 11	33-0	—
157 m1	48	—	# 11	16-1	—
157 m2	—	36	# 11	17-1	—
157 n1	12	18	# 7	5-5	—
157 n2	48	36	# 11	7-6	—
157 s1	29	29	# 7	12-4	—
157 s2	29	29	# 7	8-6	—
157 s3	40	42	# 4	12-9	—
157 s4	29	29	# 4	8-0	—
157 t1	54	—	# 10	13-2	—
157 t2	—	42	# 9	10-5	—
157 u1	26	28	# 5	9-5	—
157 v1	24	—	# 11	17-9	—
157 v2	24	—	# 11	20-4	—
157 v3	—	18	# 11	19-0	—
157 v4	—	18	# 11	21-6	—
157 v5	76	—	# 7	12-4	—
157 v6	—	76	# 7	13-4	—
157 w1	16	—	# 8	21-4	—
157 w2	6	—	# 4	20-9	—
157 w3	—	16	# 8	21-8	—
157 w4	—	6	# 4	21-1	—

• See Note X Sh. No. 25

Item	Unit	Total Pier B20	Total Pier C20
Class 'X' Concrete	C.Y.	154.7	151.6
Reinforcement Bars	Lbs.	22,530	18,980
Concrete Piles	L.F.	1504 *	1334 *
Test Piles (Concrete)	Ea.	1	1



For Geometric Layout See Sh No. 16 & 18.
For Notes see Sh. No. 171

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

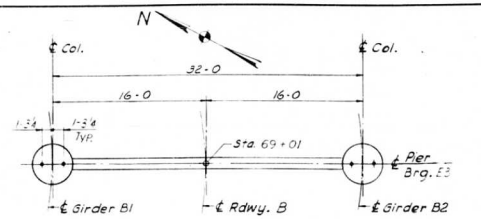
PIERS B20 AND C20

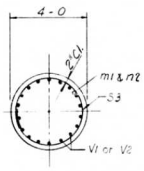
POPLAR STREET BRIDGE APPROACHES
ROADWAYS "B" AND "C"

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

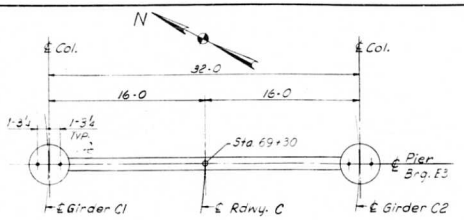
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

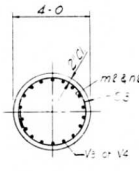
SHEET 157 of 241





SECTION A-A





SECTION D-D

TOP PLAN - PIER B21

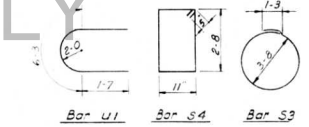
TOP PLAN - PIER C21

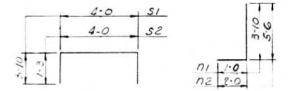
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	287	193
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

BILL OF MATERIAL

• Mark	No. Reqd. Pier B21	No. Reqd. Pier C21	Size	Length	Shape
158 n1	10	10	#10	32-4	
158 n2	2	2	#5	30-6	
158 n3	22	24	#5	33-0	
158 n4	9	7	#11	33-0	
158 m1	36	—	#11	15-1	
158 m2	—	36	#11	16-1	
158 n1	18	18	#6	2-10	
158 n2	36	36	#11	7-2	
158 s1	18	18	#6	11-8	
158 s2	20	20	#6	6-6	
158 s3	36	43	#4	12-9	
158 s4	29	29	#4	9-0	
158 t1	42	—	#7	9-8	
158 t2	—	42	#9	10-8	
158 v1	26	26	#5	9-5	
158 v2	18	—	#11	17-2	
158 v3	—	18	#11	19-8	
158 v4	—	18	#11	19-0	
158 v5	76	—	#6	21-7	
158 v6	—	76	#6	11-4	
158 w1	16	—	#8	12-4	
158 w2	6	6	#4	21-7	
158 w3	—	16	#8	21-0	
• 158 Note X				21-8	

Item	Unit	Total Pier B21	Total Pier C21
Class 'X' Concrete	C.Y.	133.2	145.8
Reinforcement Bars	Lbs.	16,430	17,540
Concrete Piles	L.F.	1222*	1363*
Test Piles (Concrete)	Ea.	1	1





Bar S1, S2

Bar n1, n2

For Geometric Layout See Sh. No. 164.8.
For Notes see Sh. No. 171

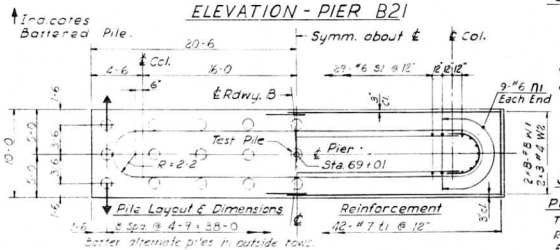
ELEVATION - PIER B21

SECTION C-C

ELEVATION - PIER C21

SECTION F-F

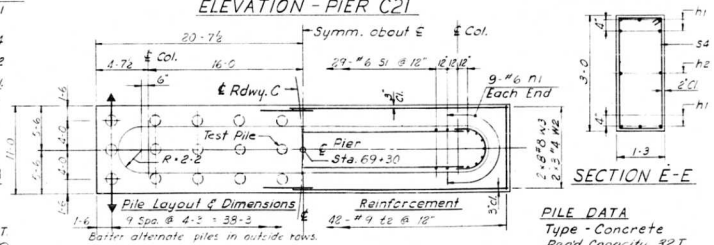
Indicates Battered Pile



FOOTING PLAN - PIER B21

SECTION B-B

PILE DATA
Type: Concrete
Reqd. Capacity: 34 T.
Est. Length: 41'-0
No. Reqd.: 26*
Test Pile: 1
*Does not include Test Pile



FOOTING PLAN - PIER C21

SECTION E-E

PILE DATA
Type - Concrete
Reqd Capacity 32 T.
Est Length - 47'-0
No. Reqd. - 29*
Test Pile - 1
*Does not include Test Pile

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

PIERS B21 AND C21

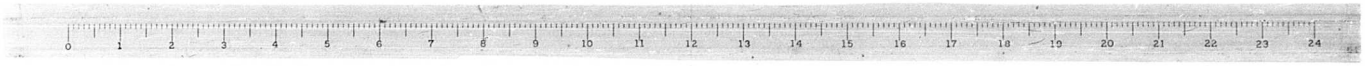
POPLAR STREET BRIDGE APPROACHES
ROADWAYS "B" AND "C"

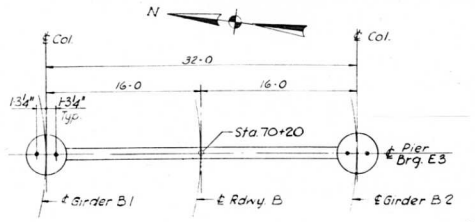
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

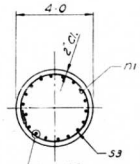
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 158 OF 241

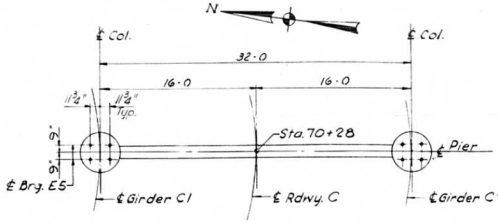
DESIGNED BY
DRAWN BY
CHECKED BY
APPROVED BY

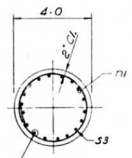






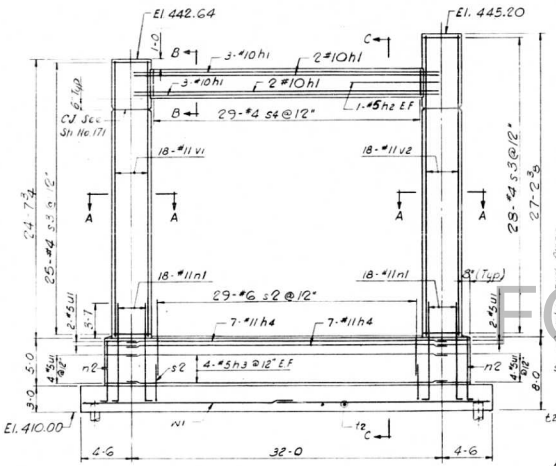
SECTION A-A



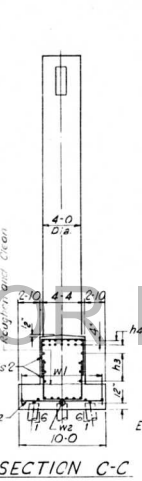


SECTION D-D

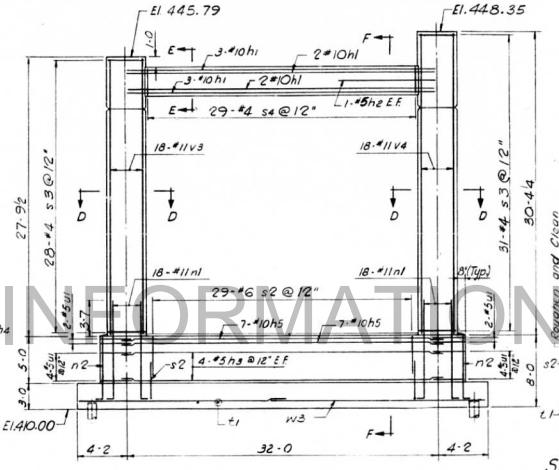
TOP PLAN - PIER B22



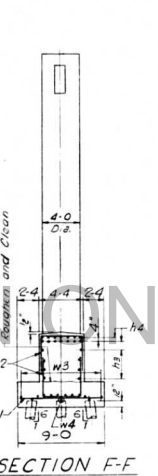
SECTION C-C



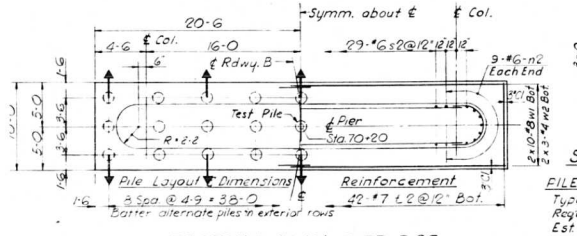
TOP PLAN - PIER C22



SECTION F-F

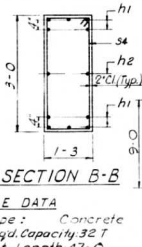


ELEVATION - PIER B22

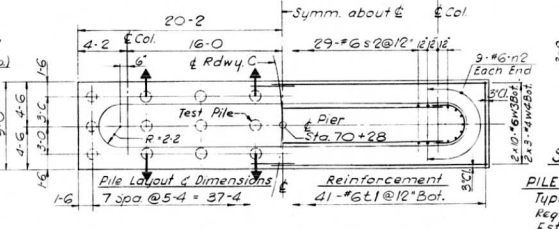


FOOTING PLAN - PIER B22

SECTION B-B

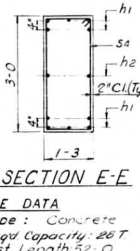


ELEVATION - PIER C22



FOOTING PLAN - PIER C22

SECTION E-E



FILE DATA
Type: Concrete
Reqd. Capacity: 32 T
Est Length 47-0
No. Reqd: 26*
Test Pile: 1
* Does not include Test Pile
Indicates battered pile

FILE DATA
Type: Concrete
Reqd Capacity: 28 T
Est. Length 52-0
No. Reqd.: 23*
Test Pile: 1
* Does not include Test Pile

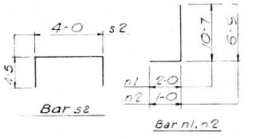
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F A I – 70	82–3HVB	ST. CLAIR	289	194
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

•Mark	No. Reqd. Pier B22	No. Reqd. Pier C22	Size	Length	Shape
159 h1	10	10	#10	32-4	—
159 h2	2	2	#5	30-6	—
159 h3	8	8	#5	33-0	—
159 h4	14	—	#11	33-0	—
159 h5	—	14	#10	33-0	—
159 n1	36	36	#11	12-7	⌐
159 n2	18	18	#6	7-9	⌐
159 s2	58	58	#6	12-10	□
159 s3	53	59	#4	12-9	○
159 s4	29	29	#4	3-0	□
159 t1	—	41	#6	8-6	—
159 t2	42	—	#7	9-6	—
159 u1	12	12	#5	9-5	⊂
159 v1	18	—	#11	24-5	—
159 v2	18	—		27-0	—
159 v3	—	18		27-7	—
159 v4	—	18	#11	30-2	—
159 w1	20	—	#8	21-7	—
159 w2	6	—	#4	20-11	—
159 w3	—	20	#6	21-0	—
159 w4	—	6	#4	20-7	—

Item	Unit	Total Pier B22	Total Pier C22
Class 'X' Concrete	C.Y.	102.1	99.9
Reinforcement Bars	Lbs.	15,610	14,980
Concrete Piles	L.F.	1322*	1196*
Test Piles (Concrete)	Ea.	1	1

Bar u1 Bar s4 Bar s3



Bar s2 Bar n1, n2

• See Note "X" Sh. No 23 For Geometric Layout See Sh. No. 17 & 19. For Notes see Sh. No. 171

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

PIERS B22 AND C22

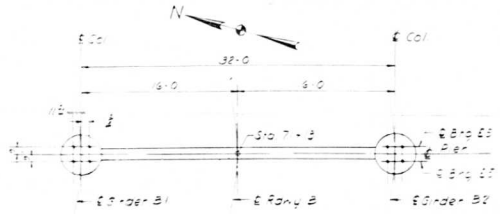
POPLAR STREET BRIDGE APPROACHES
ROADWAYS "B" AND "C"

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

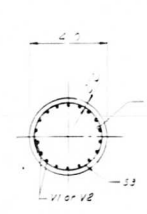
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 159 OF 241

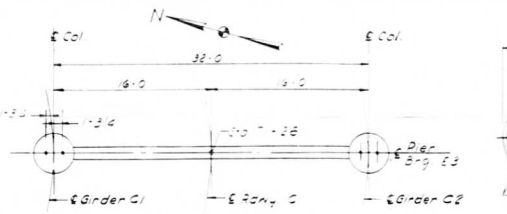
SIGNED BY A.C.
DRAWN BY Geo. S.P.
CHECKED BY G.C.H.
PROVED BY K.A.



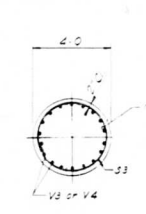
TOP PLAN - PIER B23



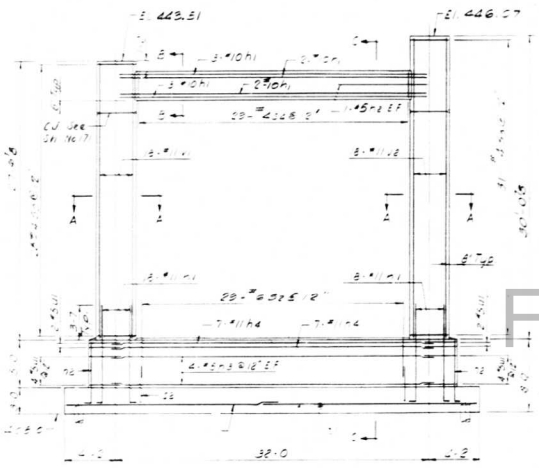
SECTION A-A



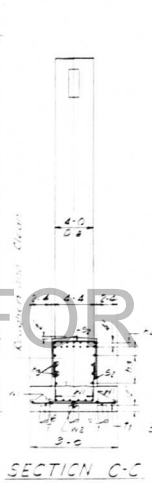
TOP PLAN - PIER C23



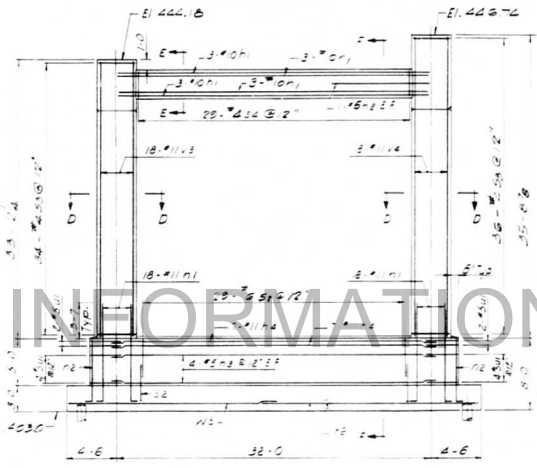
SECTION D-D



ELEVATION - PIER B23

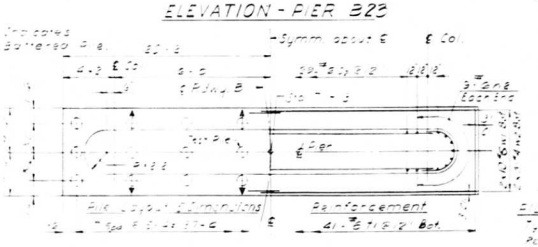


SECTION C-C

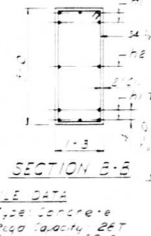


ELEVATION - PIER C23

SECTION F-F

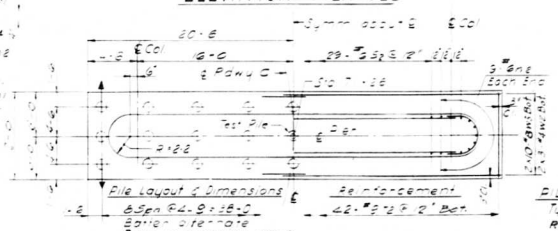


FOOTING PLAN - PIER B23

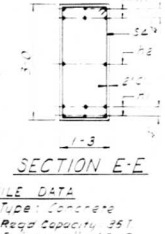


SECTION B-B

PILE DATA
Type: Concrete
Regd Capacity: 25T
Est Length: 37'-0
No. Regd: 68*
Test Pile: 1
*Does not include Test Pile



FOOTING PLAN - PIER C23



SECTION E-E

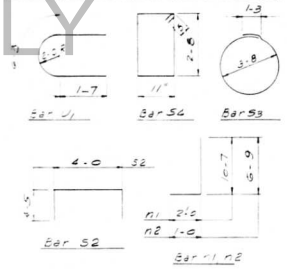
PILE DATA
Type: Concrete
Regd Capacity: 25T
Est Length: 45'-0
No. Regd: 26*
Test Pile: 1
*Does not include Test Pile

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F A I -70	82-3HVB	ST CLAIR	289	195
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

*Mark	No. Regd. Per B23	No. Regd. Per C23	Size	Length	Shape
B23 n1	6	6	#10	32'-2	
B23 n2	8	8	#5	30'-6	
B23 n3	8	8	#5	33'-0	
B23 n4	4	4	#11	33'-0	
B23 n1	36	36	#11	12'-7	
B23 n2	16	16	#6	7'-9	
B23 s1	23	23	#6	12'-10	
B23 s2	80	70	#4	12'-9	
B23 s4	29	29	#4	2'-0	
B23 s5	41	-	#5	8'-8	
B23 s6	-	42	#9	11'-8	
B23 v1	12	12	#5	9'-5	
B23 v1	18	-	#11	27'-4	
B23 v2	18	-	#11	29'-10	
B23 v3	-	18	#11	33'-0	
B23 v4	-	18	#11	35'-6	
B23 n1	20	-	#6	21'-0	
B23 n2	6	-	#5	20'-7	
B23 n3	-	22	#6	21'-7	
B23 n4	-	8	#4	21'-0	

Item	Unit	Total Per B23	Total Per C23
Class 'X' Concrete	C.Y.	99.6	118.2
Reinforcement Bars, Lbs.		14,850	17,960
Concrete Piles	L.F.	851*	1170*
Test Piles (Concrete)	Ea.	1	1



Bar n1 Bar S4 Bar S3

Bar S2 Bar n1 n2

* See Note X, Sh. No. 25
For Geometric Layout See Sh. No. 17 & 19
For Notes see Sh. No. 17

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

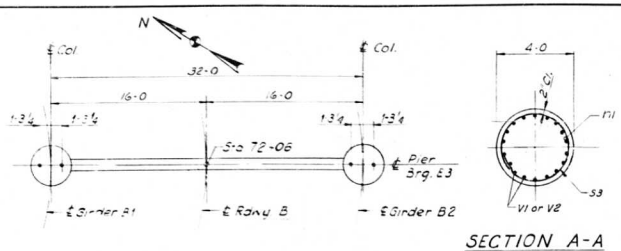
PIERS B23 AND C23

POPLAR STREET BRIDGE APPROACHES
ROADWAYS "B" AND "C"

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

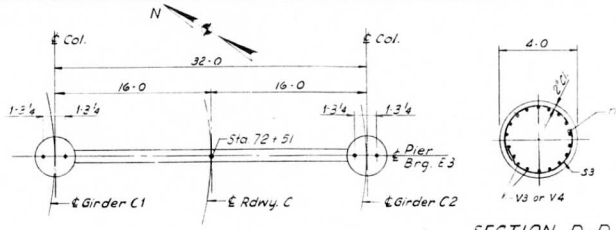
H.W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 160 of 241



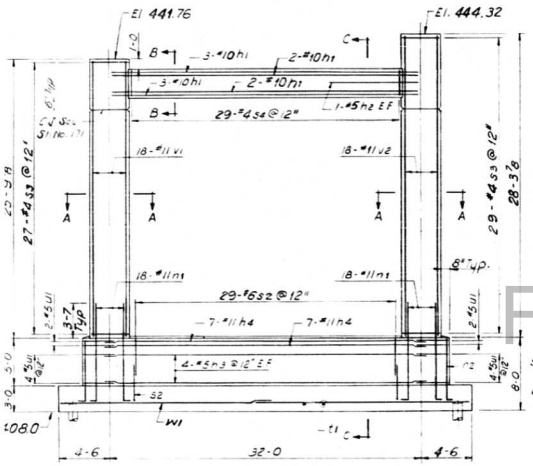
TOP PLAN - PIER B24

SECTION A-A

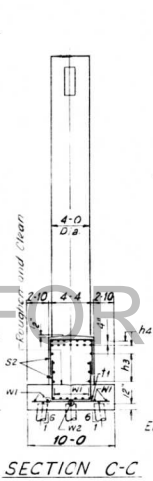


TOP PLAN - PIER C24

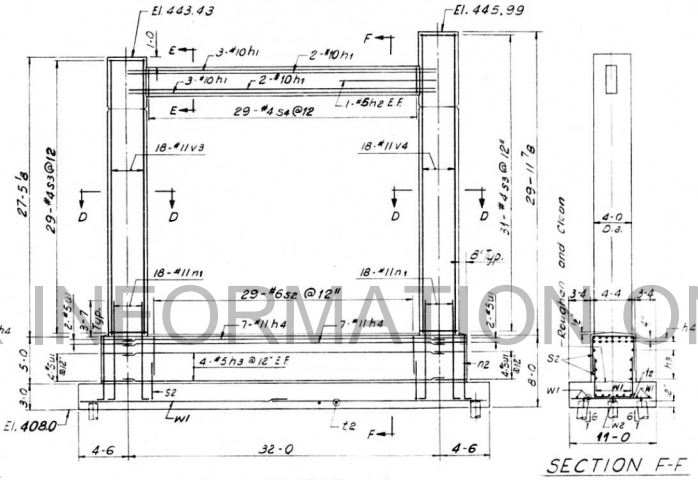
SECTION D-D



ELEVATION - PIER B24

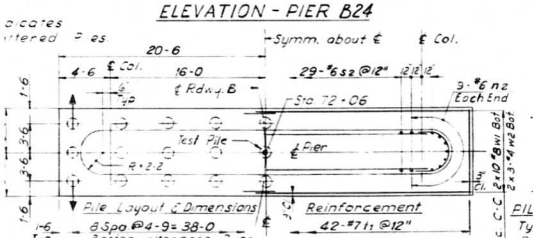


SECTION C-C

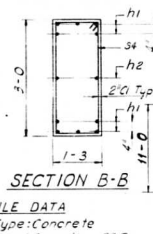


ELEVATION - PIER C24

SECTION F-F

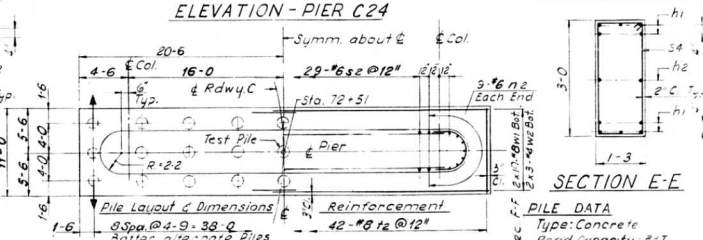


FOOTING PLAN - PIER B24



SECTION B-B

PILE DATA
Type: Concrete
Reqd. Capacity: 93 T.
Est. Length: 40-0
No. Reqd.: 26*
Test Pile: 1
*Does not include Test Pile



FOOTING PLAN - PIER C24

SECTION E-E

PILE DATA
Type: Concrete
Reqd. Capacity: 93T
Est. Length: 55-0
No. Reqd.: 26*
Test Pile: 1
*Does not include Test Pile

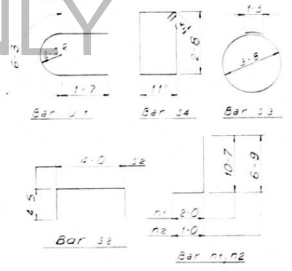
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F A I – 70	82-3HVB	ST CLAIR	289	136
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

• Mark	No. Reqd. Per B24	No. Reqd. Per C24	Size	Length	Shape
181 n1	10	10	#10	32-4	
181 n2	2	2	#5	30-6	
181 n3	6	6	#5	33-0	
181 n4	14	14	#11	33-0	
181 n1	36	36	#11	12-7	
181 n2	18	18	#6	7-9	
181 s2	58	58	#6	12-10	
181 s3	56	60	#4	12-9	
181 s4	29	29	#4	5-0	
181 t1	42	-	#7	9-6	
181 t2	-	42	#8	10-6	
181 u1	12	12	#5	9-5	
181 v1	18	-	#11	25-7	
181 v2	18	-	#11	28-1	
181 v3	-	18	#11	27-3	
181 v4	-	18	#11	29-9	
181 w1	20	22	#5	21-7	
181 w2	6	6	#4	20-11	

• See Note X Sh. 139-35

Item	Unit	Total Per B24	Total Per C24
Class 'X' Concrete	C.Y.	103.1	109.2
Reinforcement Bars, Lbs.		15,850	16,570
Concrete Piles	L.F.	040 x	1430 x
Test Piles, Concrete	Ea.	1	1



For Geometric Layout See Sh. No. 17 & 18.
For Notes See Sh. No. 17.

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

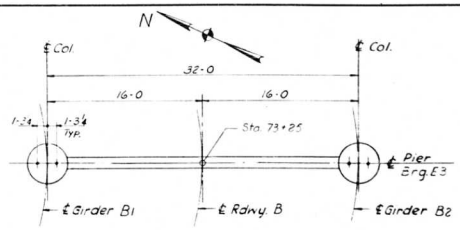
PIERS B24 AND C24

POPLAR STREET BRIDGE APPROACHES
ROADWAYS "B" AND "C"

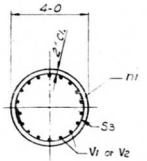
F A I RT 70 ST CLAIR CO. SECTION 82-3HVB

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

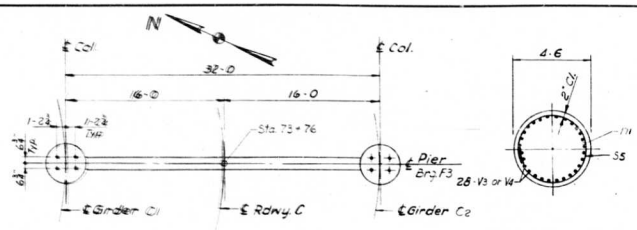
SHEET 161 of 24



TOP PLAN - PIER B25

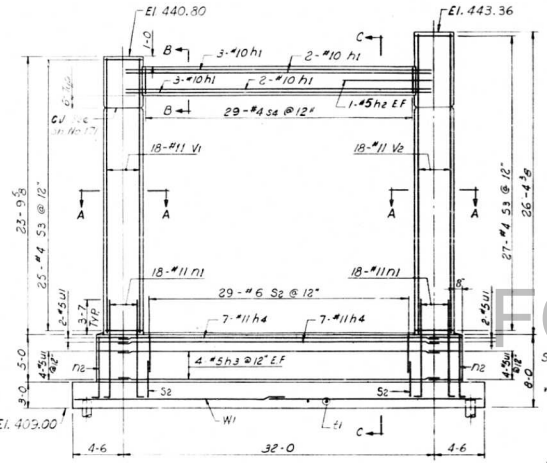


SECTION A-A

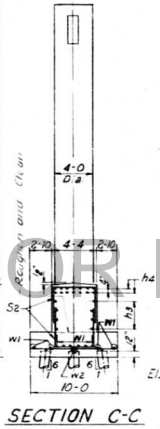


TOP PLAN - PIER C25

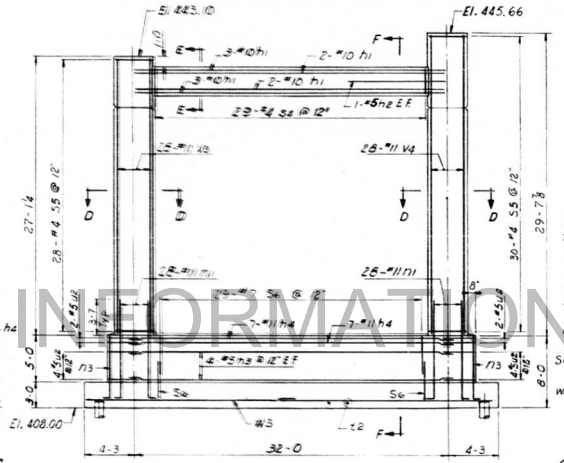
SECTION D-D



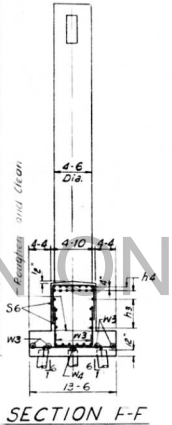
ELEVATION - PIER B25



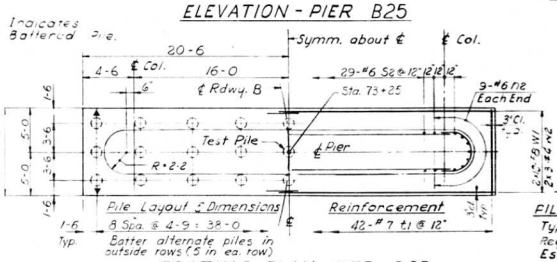
SECTION C-C



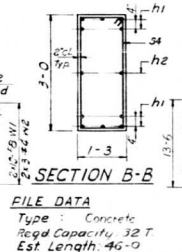
ELEVATION - PIER C25



SECTION F-F

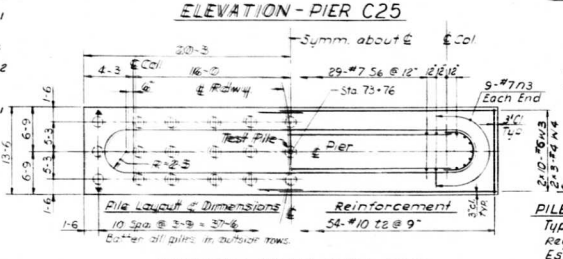


FOOTING PLAN - PIER B25

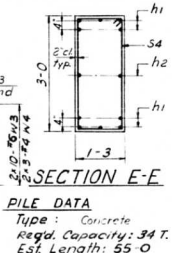


SECTION B-B

PILE DATA
Type : Concrete
Reqd Capacity 32 T
Est. Length: 46-0
No. Reqd: 26*
Test Pile 1
* Does not include Test Pile

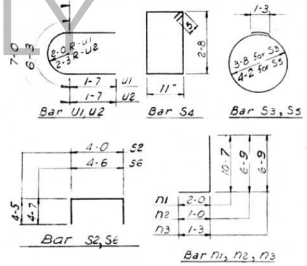


FOOTING PLAN - PIER C25



SECTION E-E

PILE DATA
Type : Concrete
Reqd. Capacity: 34 T.
Est. Length: 55-0
No. Reqd.: 32*
Test Pile: 1
* Does not include Test Pile



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I—70	82-3HVB	ST. CLAIR	289	197
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

• Mark	No. Reqd. Pier B25	No. Reqd. Pier C25	Size	Length	Shape
162 h1	10	10	#10	32-4	
162 h2	2	2	#5	30-6	
162 h3	8	8	#5	33-0	
162 h4	14	14	#11	33-0	
162 n1	36	56	#11	12-7	
162 n2	18	—	#6	7-9	
162 n3	—	18	#7	8-0	
162 s2	58	—	#6	12-10	
162 s3	52	—	#4	12-9	
162 s4	29	29	#4	8-0	
162 s5	—	58	#4	14-4	
162 s6	—	58	#7	13-8	
162 t1	42	—	#7	9-8	
162 t2	—	54	#10	13-2	
162 u1	12	-	#5	9-5	
162 u2	-	12	#5	10-2	
162 v1	18	—	#11	23-7	
162 v2	18	—	#11	26-2	
162 v3	—	28	#11	26-10	
162 v4	—	28	#11	29-4	
162 w1	20	—	#6	21-7	
162 w2	2	—	#4	20-11	
162 w3	—	20	#6	21-1	
162 w4	—	6	#4	20-9	

Item	Unit	Total Pier B25	Total Pier C25
Class "X" Concrete	C.Y.	101.3	130.1
Reinforcement Bars	Lbs.	15,460	22,810
Concrete Piles	L.F.	1196*	1760*
Test Piles (Concrete)	Ea.	1	1

• See Note "X" Sh. No 25

For Notes see Sh. No. 171

For Geometric Layout See Sh No 176 & 179.

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

PIERS B25 AND C25

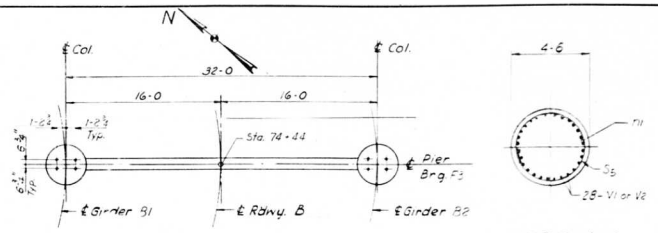
POPLAR STREET BRIDGE APPROACHES
ROADWAYS "B" AND "C"

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

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

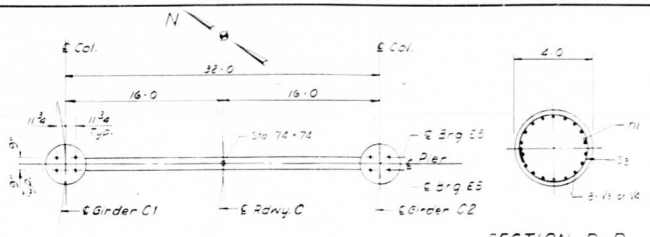
SHEET 162 OF 241

SIGNED BY A.C.
DRAWN BY D.F.
CHECKED BY S.C.H.
APPROVED BY S.A.



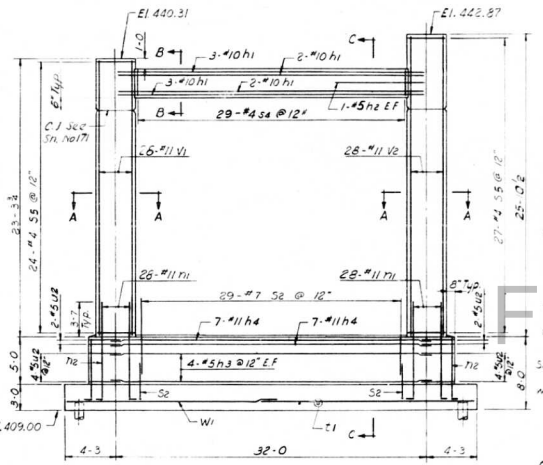
TOP PLAN - PIER B26

SECTION A-A



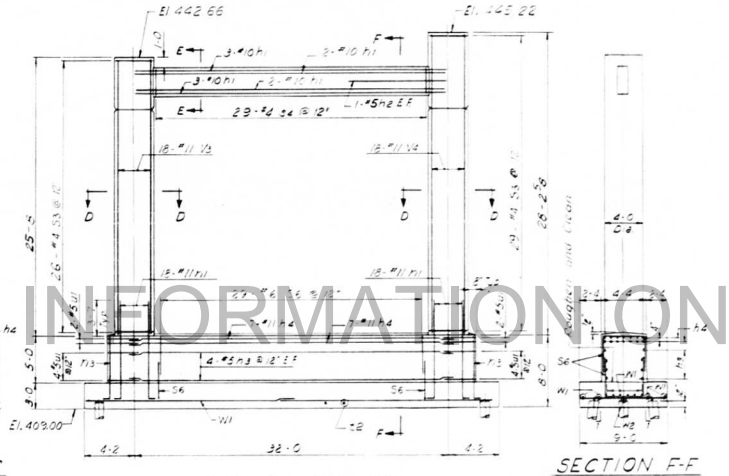
SECTION D-D

TOP PLAN - PIER C26



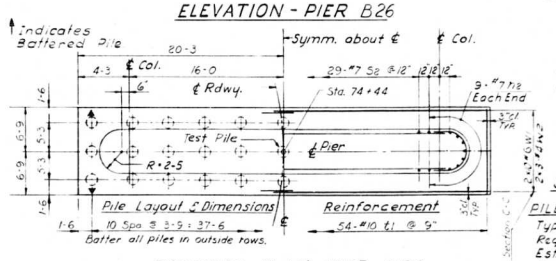
ELEVATION - PIER B26

SECTION C-C

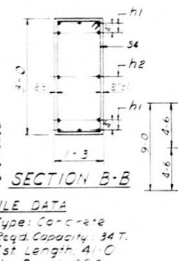


ELEVATION - PIER C26

SECTION F-F

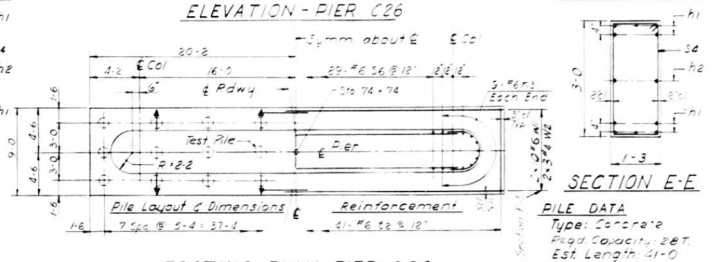


FOOTING PLAN - PIER B26



SECTION B-B

PILE DATA
Type: Concrete
Reqd. Capacity: 34 T.
Est. Length: 41-0
No. Reqd.: 32 *
Test Pile: 1
*Does not include Test Pile



FOOTING PLAN - PIER C26

SECTION E-E

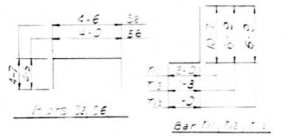
PILE DATA
Type: Concrete
Reqd. Capacity: 28 T.
Est. Length: 41-0
No. Reqd.: 28 *
Test Pile: 1
*Does not include Test Pile

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	B2-3 H.V.B	ST. CLAIR	799	98
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

• Mark	No. Reqd. Pier B26	No. Reqd. Pier C26	Size	Length	Shape
163 h1	16	16	# 10	32-2	
163 h2	8	8	# 6	32-6	
163 h3	8	8	# 7	32-10	
163 h4	4	4	# 11	33-10	
163 h11	56	56	# 11	12-7	
163 h12	2	—	# 7	2-0	
163 h13	—	2	# 6	7-3	
163 s2	52	—	# 7	15-8	
163 s3	—	55	# 3	12-3	
163 s4	27	25	# 4	8-7	
163 s5	27	—	# 5	4-6	
163 s6	—	25	# 6	12-10	
163 t1	54	—	# 10	3-2	
163 t2	—	4	# 6	3-3	
163 v1	—	2	# 9	5-5	
163 v2	12	—	# 6	12-8	
163 v3	24	—	# 11	25-1	
163 v4	28	—	# 11	26-8	
163 v5	—	2	# 11	25-6	
163 v6	—	2	# 11	28-0	
163 w1	20	20	# 6	21-0	
163 w2	6	6	# 4	20-7	

Item	Unit	Total Pier B26	Total Pier C26
Class 'X' Concrete	C.Y.	125.6	97.9
Reinforcement Bars	Lbs.	21,640	18,080
Concrete Piles	L.F.	1312 *	945 *
Test Piles (Concrete)	Ea.	1	1



• See Notes 'X' Sh. No. 28
For Geometric Layout See Sh. No. 74/8
For Notes See Sh. No. 171

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

PIERS B26 AND C26

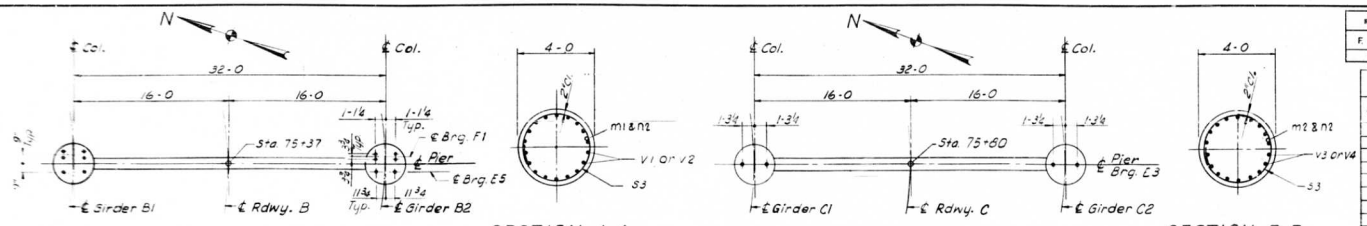
POPLAR STREET BRIDGE APPROACHES
ROADWAYS "B" AND "C"

F.A.I. RT. 70 ST. CLAIR CO. SECTION B2-3 H.V.B

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

SHEET 163 OF 241

DESIGNED BY M.C.
DRAWN BY D.C.F.
CHECKED BY S.C.H.
QUANTITIES BY K.A.

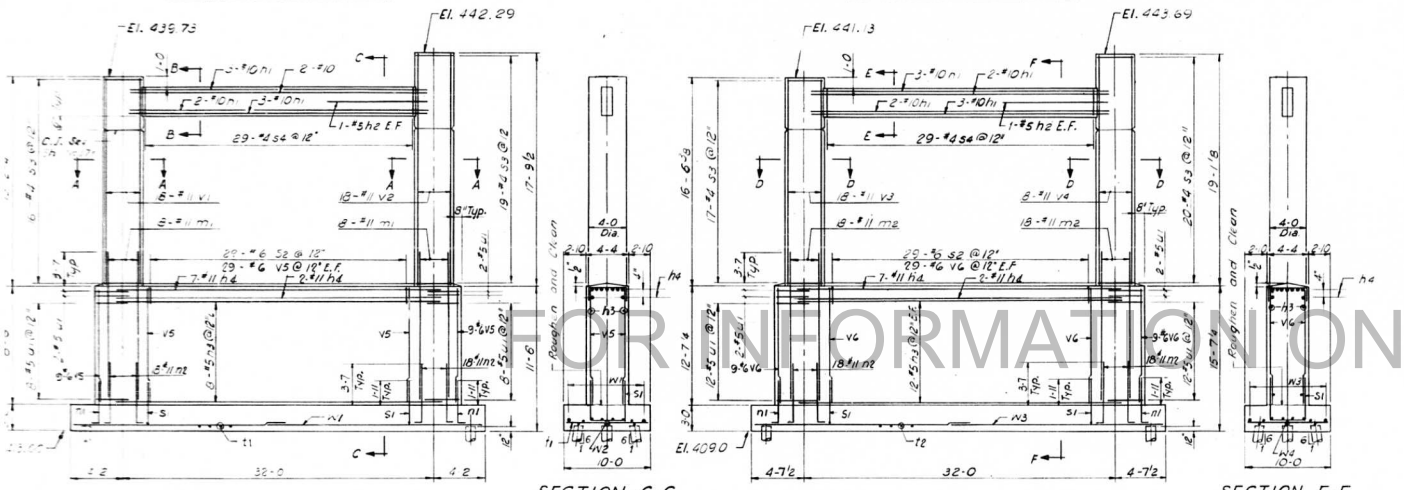


SECTION A-A

SECTION D-D

TOP PLAN - PIER B27

TOP PLAN - PIER C27

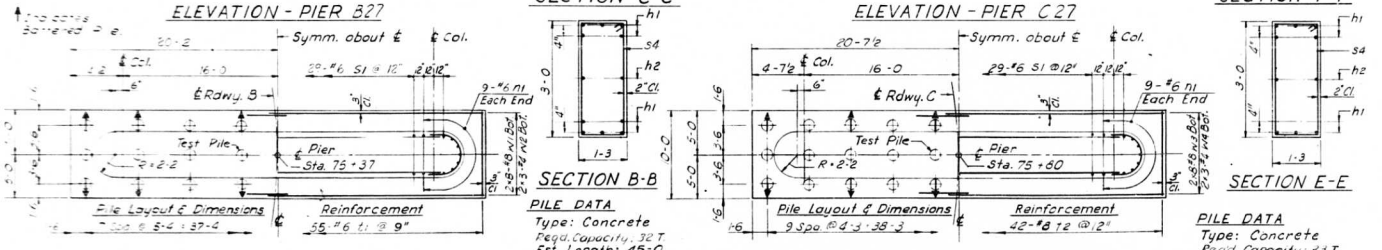


ELEVATION - PIER B27

ELEVATION - PIER C27

SECTION C-C

SECTION F-F



SECTION B-B

SECTION E-E

FOOTING PLAN - PIER B27

FOOTING PLAN - PIER C27

PILE DATA
Type: Concrete
Reqd. Capacity: 32 T.
Est. Length: 45'-0"
No. Reqd.: 23*
Test Pile: 1
*Does not include Test Pile

PILE DATA
Type: Concrete
Reqd. Capacity: 93 T.
Est. Length: 41'-0"
No. Reqd.: 29*
Test Pile: 1
*Does not include Test Pile

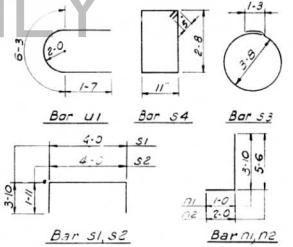
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	199
FED. ROAD DIV. NO. 4		ILLINOIS PROJECT		

BILL OF MATERIAL

• Mark	No. Reqd. Pier B27	No. Reqd. Pier C27	Size	Length	Shape
164 n1	10	10	#10	32-6	
164 n2	2	2	#5	30-6	
164 n3	16	24	#5	33-0	
164 n4	9	9	#11	33-0	
164 m1	36	-	#11	12-1	
164 m2	-	36	#11	16-2	
164 h1	18	18	#6	6-10	
164 h2	36	36	#11	7-6	
164 s1	29	29	#6	11-8	
164 s2	29	29	#6	7-10	
164 s3	35	37	#4	12-9	
164 s4	29	29	#4	8-0	
164 t1	55	—	#6	9-8	
164 t2	—	42	#8	9-8	
164 v1	20	28	#5	9-5	
164 v1	18	—	#11	15-0	
164 v2	18	—	#11	17-7	
164 v3	—	18	#11	16-6	
164 v4	—	18	#11	18-11	
164 v5	76	—	#6	8-6	
164 v6	—	76	#6	12-5	
164 w1	18	-	#8	21-3	
164 w2	6	-	#5	20-7	
164 w3	-	16	#5	21-8	
164 w4	-	6	#4	21-0	

Item	Unit	Total Pier B27	Total Pier C27
Class 'X' Concrete	C.Y.	113.1	139.1
Reinforcement Bars	Lbs.	15,170	16,990
Concrete Piles	L.F.	1035 *	1189 *
Test Piles (Concrete)	Ea.	1	1

• See Note 'X' Sh. No 25



For Geometric Layout See Sh. No. 17619
For Notes see Sh. No. 171

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

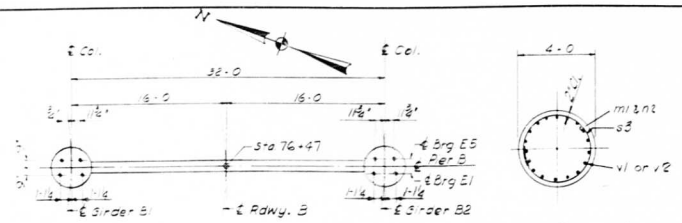
PIERS B27 AND C27

POPLAR STREET BRIDGE APPROACHES
ROADWAYS "B" AND "C"

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

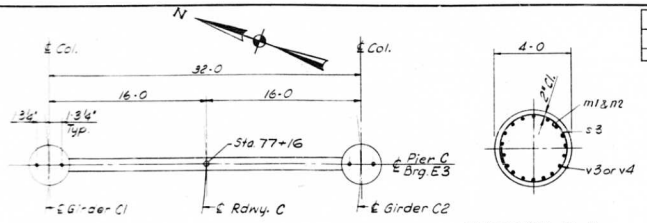
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 164 OF 241



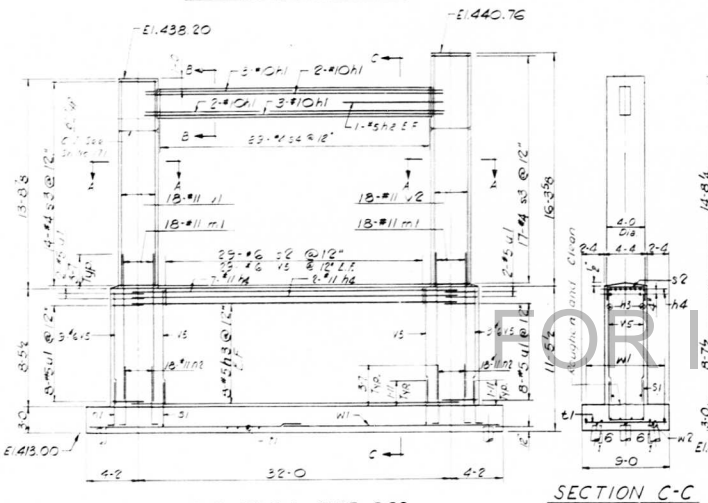
TOP PLAN - PIER B28

SECTION A-A

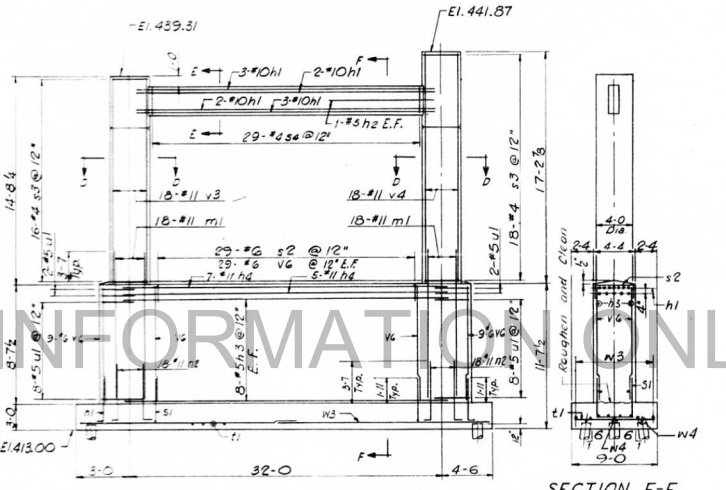


TOP PLAN - PIER C28

SECTION D-D



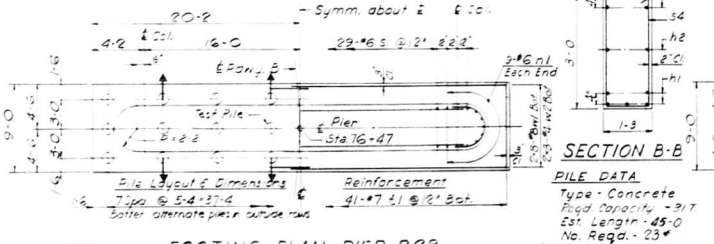
ELEVATION - PIER B28



ELEVATION - PIER C28

SECTION C-C

SECTION F-F

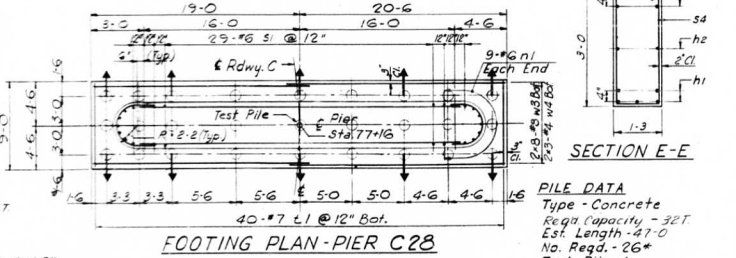


FOOTING PLAN - PIER B28

SECTION B-B

PILE DATA
Type - Concrete
Regd. Capacity - 91 T.
Est. Length - 45'-0
No. Regd. - 23*
Test Pile - 1
* Does not include Test Pile

↑ — Indicates battered pile



FOOTING PLAN - PIER C28

SECTION E-E

PILE DATA
Type - Concrete
Regd. Capacity - 32 T.
Est. Length - 47'-0
No. Regd. - 26*
Test Pile - 1
*Does not include Test Pile

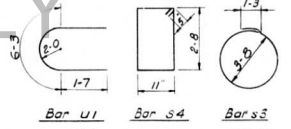
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F A I - 70	82-3HVB	ST. CLAIR	289	200
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

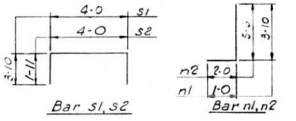
• Mark	No. Regd. Pier B28	No. Regd. Pier C28	Size	Length	Shape
165 h1	10	10	# 10	32-4	—
165 h2	2	2	# 5	30-6	—
165 h3	16	16	# 5	33-0	—
165 h4	9	12	# 11	33-0	—
165 m1	36	36	# 11	12-3	—
165 n1	18	18	# 6	4-10	L
165 n2	36	36	# 11	7-6	L
165 s1	29	29	# 6	11-8	—
165 s2	29	29	# 6	7-10	—
165 s3	31	34	# 4	12-9	—
165 s4	29	29	# 4	8-0	—
165 t1	41	40	# 7	8-8	—
165 u1	20	20	# 5	9-5	U
165 v1	18	—	# 11	13-6	—
165 v2	18	—	# 11	16-1	—
165 v3	—	18	# 11	14-6	—
165 v4	—	18	# 11	17-1	—
165 v5	76	—	# 6	8-3	—
165 v6	—	76	# 6	8-5	—
165 w1	16	—	# 8	21-3	—
165 w2	6	—	# 4	20-7	—
165 w3	—	16	# 8	20-10	—
165 w4	—	6	# 4	20-3	—

Item	Unit	Total Pier B28	Total Pier C28
Class 'X' Concrete	C.Y.	107.0	107.9
Reinforcement Bars	Lbs.	14,440	15,170
Concrete Piles	L.F.	1035 *	1222 *
Test Piles (Concrete)	Ea.	1	1

• See Note 'X' Sh. No 25



Bar u1 Bar s4 Bar s3



Bar s1, s2 Bar n1, n2

For Geometric Layout See Sh. 17 & 19.
For Notes see Sh. No. 171

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

PIERS B28 AND C28

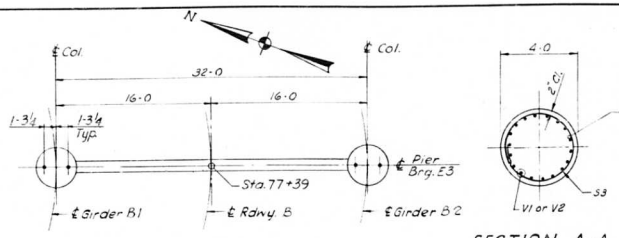
POPLAR STREET BRIDGE APPROACHES
ROADWAYS "B" AND "C"

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

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

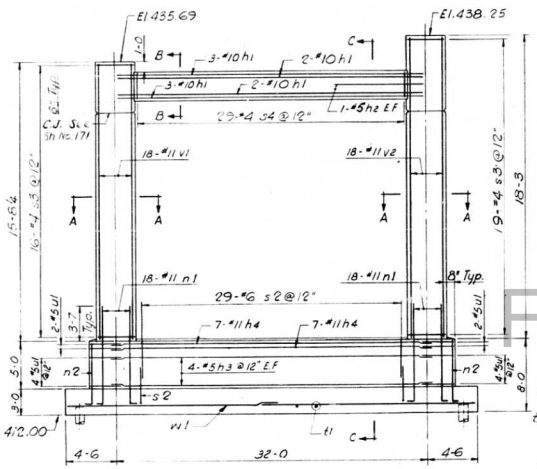
SHEET 165 of 241

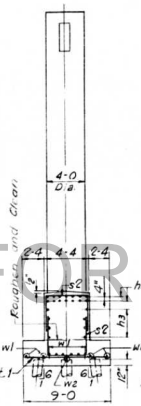
DESIGNED BY
DRAWN BY Geo. S. P.
CHECKED BY
APPROVED BY



SECTION A-A

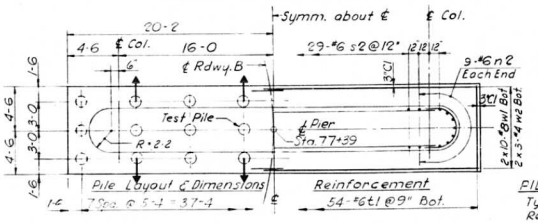
TOP PLAN - PIER B29



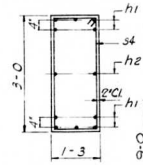


SECTION C-C

ELEVATION - PIER B29

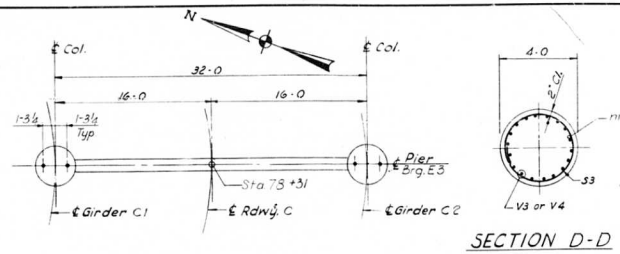


FOOTING PLAN - PIER B29



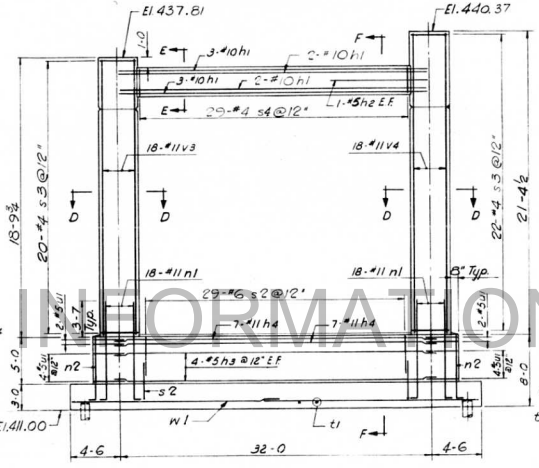
SECTION B-B

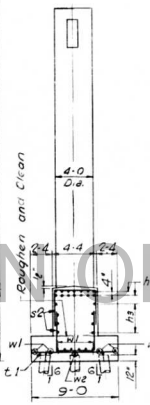
PILE DATA
Type : Concrete
Reqd Capacity : 33 T.
Est. Length : 43-0
No. Reqd : 23*
Test Pile : 1
*Does not include Test Pile
↑ - Indicates battered pile



SECTION D-D

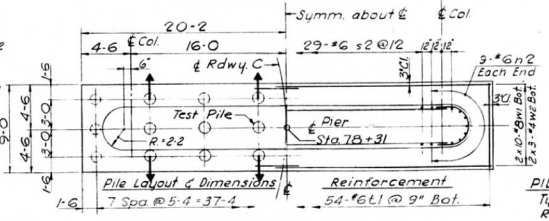
TOP PLAN - PIER C29



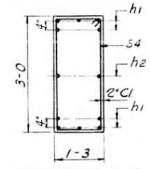


SECTION F-F

ELEVATION - PIER C 29



FOOTING PLAN - PIER C29



SECTION E-E

PILE DATA
Type : Concrete
Reqd. Capacity : 33 T.
Est. Length : 43-0
No. Reqd. : 23*
Test Pile : 1
*Does not include Test Pile

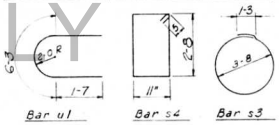
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I-70	82-3HVB	ST. CLAIR	289	801
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

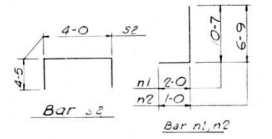
BILL OF MATERIAL

• Mark	No. Reqd. PierB29	No. Reqd. PierC29	Size	Length	Shape
166 h1	10	10	#10	36-4	—
166 h2	2	2	#5	30-6	—
166 h3	8	8	#5	33-0	—
166 h4	14	14	#11	33-0	—
166 n1	36	36	#11	12-7	L
166 n2	18	18	#6	7-9	L
166 s2	58	58	#6	12-10	□
166 s3	35	42	#4	12-9	○
166 s4	29	29	#4	8-0	⊐
166 t1	54	54	#6	8-6	—
166 u1	12	12	#5	9-5	⊏
166 v1	18	—	#11	15-6	—
166 v2	18	—		18-1	—
166 v3	—	18		18-7	—
166 v4	—	18	#11	21-2	—
166 w1	20	20	#9	21-3	—
166 w2	6	6	#4	20-7	—

• See Note 'X' Sh. No 25

Item	Unit	Total PierB29	Total PierC29
Class "X" Concrete	CY	88.6	91.5
Reinforcement Bars	Lbs.	13,610	14,250
Concrete Piles	LF	27 *	989 *
Test Piles (Concrete)	Ea.	1	1





For Geometric Layout See Sh. 17 & 19.
For Notes see Sh. No. 171

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

PIERS B29 AND C29

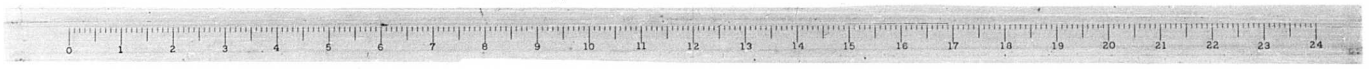
POPLAR STREET BRIDGE APPROACHES
ROADWAYS "B" AND "C"

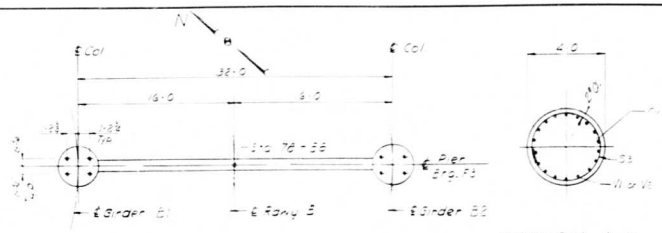
F.A.I RT. 70 ST. CLAIR CO. SECTION 82-3HVB

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

SHEET 166 of 241

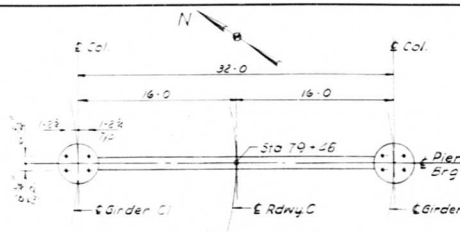
D BY
BY
BY
D BY



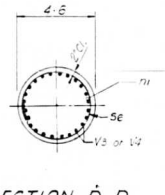


TOP PLAN - PIER B30

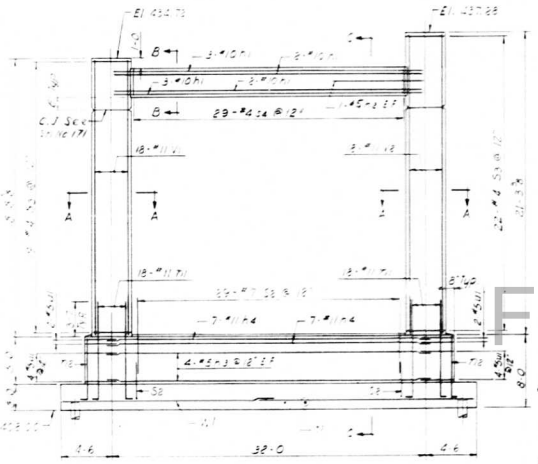
SECTION A-A



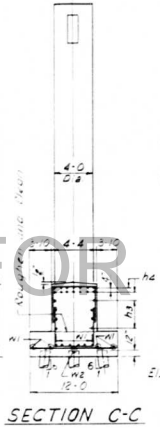
TOP PLAN - PIER C30



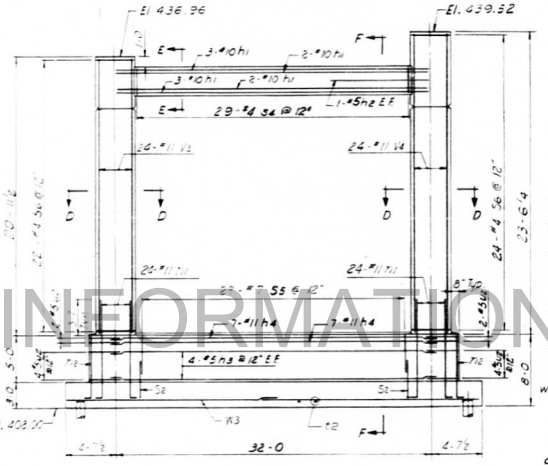
SECTION D-D



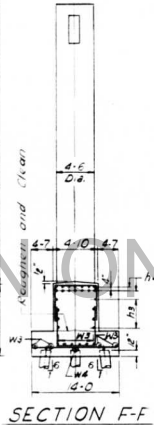
ELEVATION - PIER B30



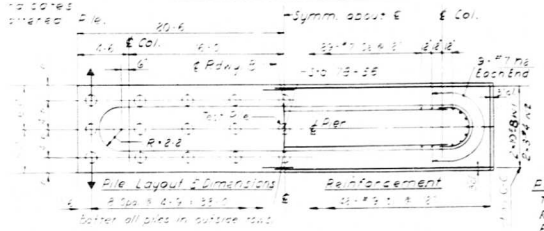
SECTION C-C



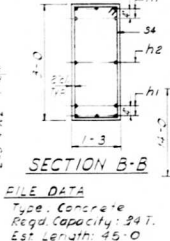
ELEVATION - PIER C30



SECTION F-F

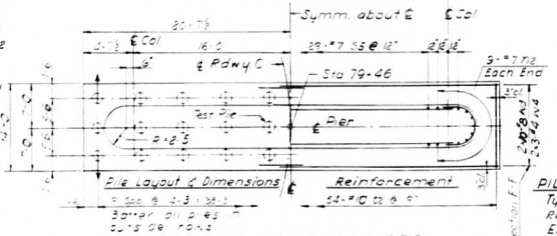


FOOTING PLAN - PIER B30

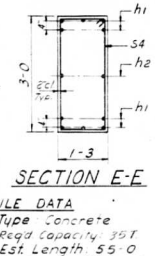


SECTION B-B

PILE DATA
Type Concrete
Reqd Capacity: 34 T.
Est Length: 45·0
No. Reqd. 26 *
Test Pile 1
* Does not include Test Pile



FOOTING PLAN - PIER C30



SECTION E-E

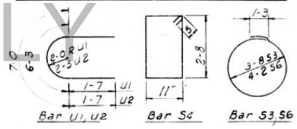
PILE DATA
Type Concrete
Reqd Capacity: 35 T.
Est Length: 55·0
No. Reqd. 29 *
Test Pile 1
* Does not include Test Pile

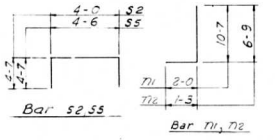
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F A I – 70	82–3HVB	ST. CLAIR	289	202
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

• Mark	No. Reqd. Pier B30	No. Reqd. Pier C30	Size	Length	Shape
167 h1	10	10	#10	32·4	
167 h2	2	2	#5	30·6	
167 h3	8	8	#5	33·0	
167 h4	14	14	#11	33·0	
167 n1	36	28	#11	12·7	
167 n2	18	18	#7	8·0	
167 S2	52	–	#7	13·2	
167 S3	2	–	#6	12·9	
167 S4	29	29	#4	8·0	
167 S5	–	58	#7	13·6	
167 S6	–	46	#4	14·4	
167 V1	42	–	#9	11·5	
167 V2	–	54	#10	13·9	
167 V3	12	–	#5	9·5	
167 V4	–	12	#5	10·2	
167 W1	18	–	#11	18·6	
167 W2	18	–	#11	21·10	
167 W3	–	24	#11	20·9	
167 W4	–	24	#11	23·4	
167 K1	20	–	#8	21·7	
167 K2	6	–	#4	20·10	
167 K3	–	20	#8	21·9	
167 K4	–	6	#4	21·1	

Item	Unit	Total Pier B30	Total Pier C30
Class 'X' Concrete	C.Y.	105.7	128.1
Reinforcement Bars	Lbs.	15,750	20,070
Concrete Piles	L.F.	1170 *	1595 *
Test Piles (Concrete)	Ea.	1	1





• See Note 'X' Sh. No. 25
For Geometric Layout See Sh. No. 17 & 19.
For Notes see Sh. No. 171

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

PIERS B30 AND C30

POPLAR STREET BRIDGE APPROACHES
ROADWAYS "B" AND "C"

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

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

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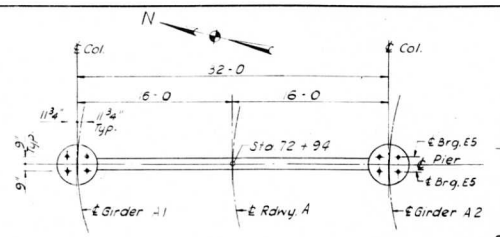
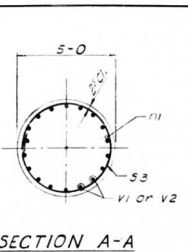
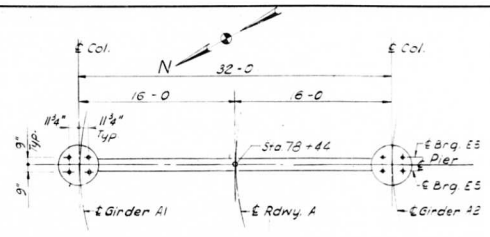


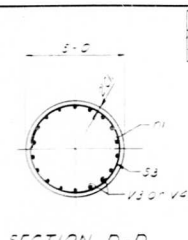
TOP PLAN - PIER A25



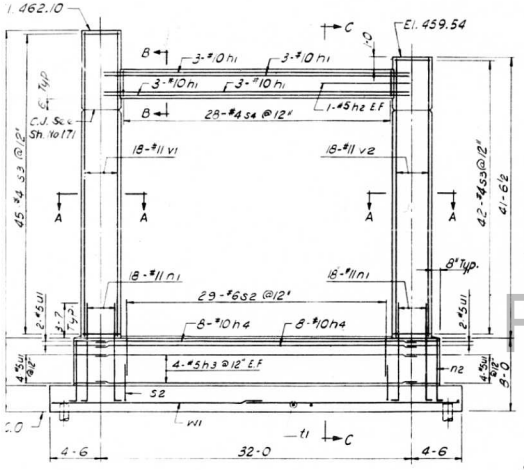
SECTION A-A



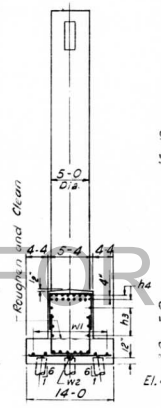
TOP PLAN - PIER A29



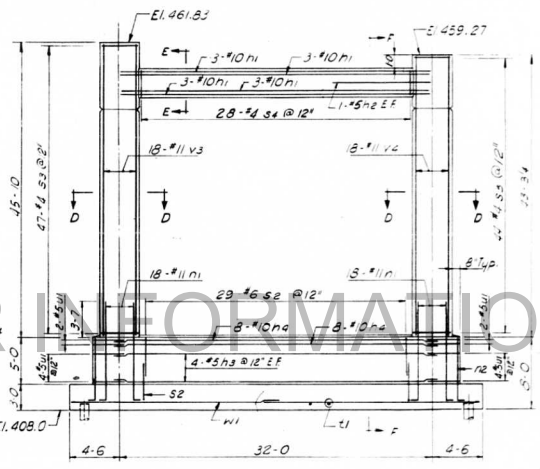
SECTION D-D



ELEVATION - PIER A25

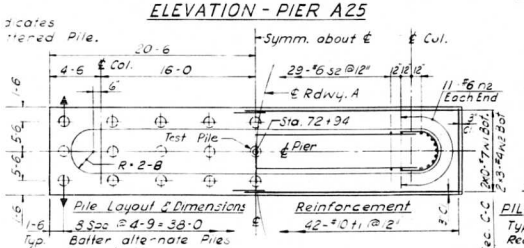


SECTION C-C

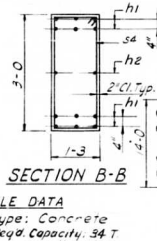


ELEVATION - PIER A29

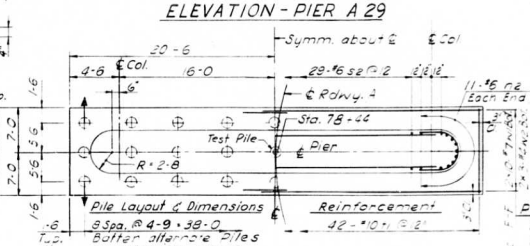
SECTION F-F



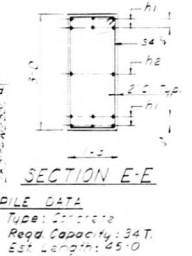
FOOTING PLAN - PIER A25



SECTION B-B



FOOTING PLAN - PIER A29



SECTION E-E

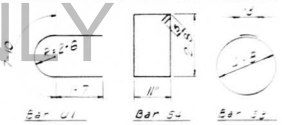
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82—3HVB	ST. CLAIR	289	205
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

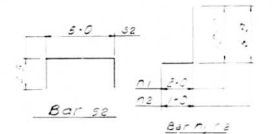
BILL OF MATERIAL

• Mark	No. Reqd. Pier A25	No. Reqd. Pier A29	Size	Length	Shape
S82 n1	2	12	#10	33-4	
S82 n2	2	2	#10	30-6	
S82 n4	8	8	#5	33-0	
S82 n3	16	16	#10	31-0	
S82 n5	36	36	#11	2-7	
S82 n6	22	22	#6	7-9	
S82 S2	58	58	#6	31-0	
S82 S3	87	91	#4	31-0	
S82 S4	28	28	#4	9-0	
S82 V1	42	42	#10	13-6	
S82 U1	12	12	#5	11-0	
S82 V3	18	-	#11	43-11	
S82 V4	18	-	#11	41-4	
S82 V3	-	18	#11	45-8	
S82 V4	-	18	#11	43-1	
S82 n7	20	20	#7	21-6	
S82 n8	6	6	#4	26-11	

• S82 Note "X" Sh. No. 25

Item	Unit	Total Pier A25	Total Pier A29
Class "X" Concrete	CY	165.9	168.4
Reinforcement Bars	Lbs.	20,920	21,240
Concrete Piles	LF	1092	1170 *
Test Piles (Concrete)	Ea.	1	1





For Notes see Sh. No. 171
For Geometric Layout See Sh. No. 20

PILE DATA
Type: Concrete
Reqd. Capacity: 34 T.
Est Length: 42-0
No. Reqd: 26*
Test Pile: 1
*Does not include Test Pile

See Sec. C-C

PILE DATA
Type: Concrete
Reqd. Capacity: 34 T.
Est Length: 45-10
No. Reqd.: 26*
Test Pile: 1
*Does not include Test Pile

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

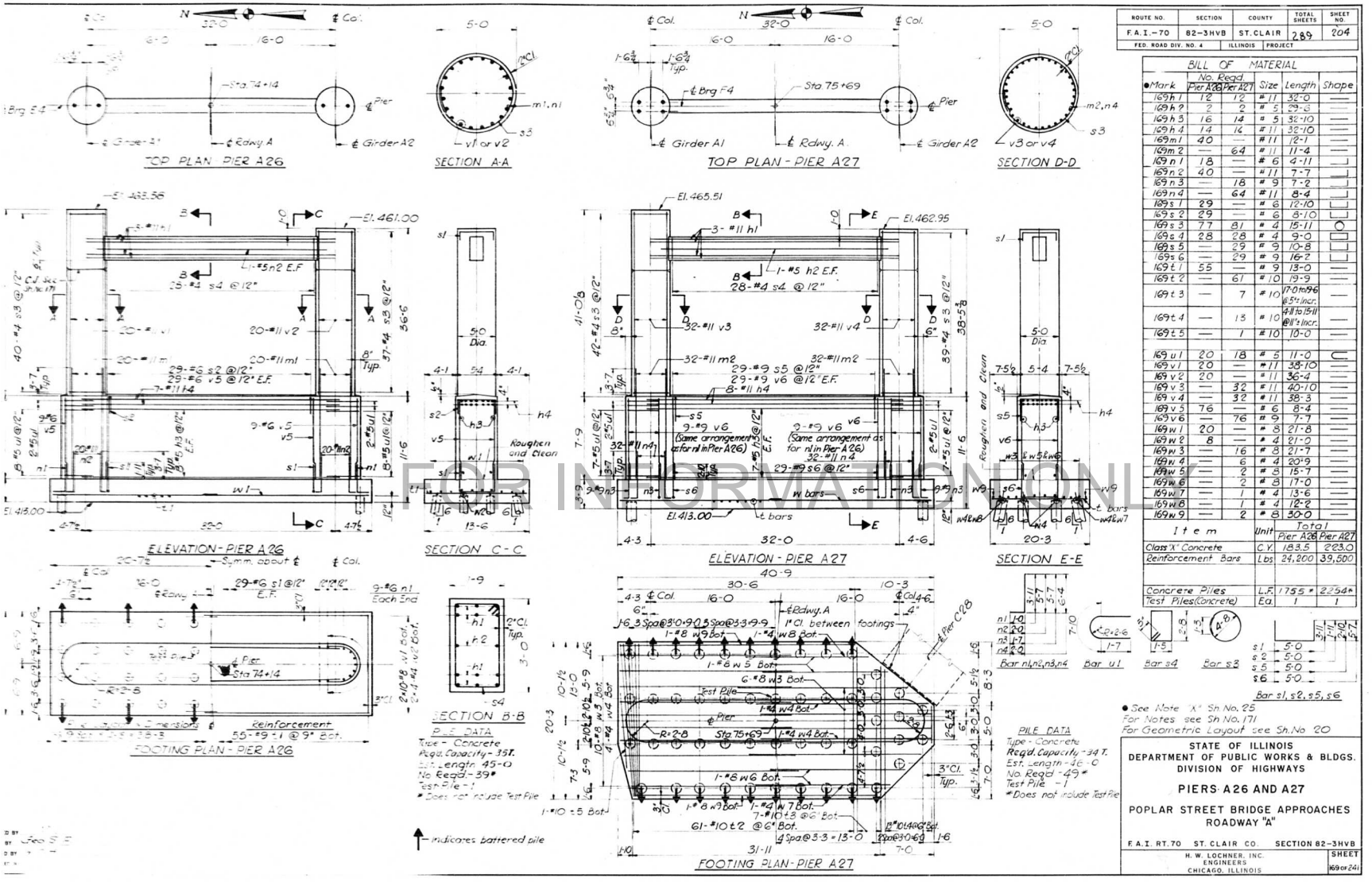
PIERS A25 AND A29

POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

F.A.I. RT 70 ST. CLAIR CO. SECTION 82—3HVB

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

SHEET 205 OF 289



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	204
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

BILL OF MATERIAL

Mark	No. Reqd Pier A26	No. Reqd Pier A27	Size	Length	Shape
169 h 1	12	12	# 11	32-0	—
169 h 2	2	2	# 5	29-3	—
169 h 3	16	14	# 5	32-10	—
169 h 4	14	14	# 11	32-10	—
169 m 1	40	—	# 11	12-1	—
169 m 2	—	64	# 11	11-4	—
169 n 1	18	—	# 6	4-11	L
169 n 2	40	—	# 11	7-7	—
169 n 3	—	18	# 9	7-2	—
169 n 4	—	64	# 11	8-4	—
169 s 1	29	—	# 6	12-10	L
169 s 2	29	—	# 6	8-10	L
169 s 3	77	81	# 4	15-11	O
169 s 4	28	28	# 4	9-0	—
169 s 5	—	29	# 9	10-8	—
169 s 6	—	29	# 9	16-7	—
169 t 1	55	—	# 9	13-0	—
169 t 2	—	61	# 10	19-9	—
169 t 3	—	7	# 10	17-0 to 19-6 @ 6" Incr.	—
169 t 4	—	13	# 10	4-11 to 15-11 @ 11" Incr.	—
169 t 5	—	1	# 10	10-0	—
169 u 1	20	18	# 5	11-0	—
169 v 1	20	—	# 11	38-10	—
169 v 2	20	—	# 11	36-4	—
169 v 3	—	32	# 11	40-10	—
169 v 4	—	32	# 11	38-3	—
169 v 5	76	—	# 6	8-4	—
169 v 6	—	76	# 9	7-7	—
169 w 1	20	—	# 8	21-8	—
169 w 2	8	—	# 4	21-0	—
169 w 3	—	16	# 8	21-7	—
169 w 4	—	6	# 4	20-9	—
169 w 5	—	2	# 8	15-7	—
169 w 6	—	2	# 8	17-0	—
169 w 7	—	1	# 4	13-6	—
169 w 8	—	1	# 4	12-2	—
169 w 9	—	2	# 8	30-0	—

Item	Unit	Total Pier A26	Total Pier A27
Class 'X' Concrete	C.Y.	183.5	223.0
Reinforcement Bars	Lbs	24,200	39,500
Concrete Piles	L.F.	1755 *	2254 *
Test Piles (Concrete)	Ea.	1	1

● See Note 'X' Sh No. 25
For Notes see Sh No. 171
For Geometric Layout see Sh No. 20

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

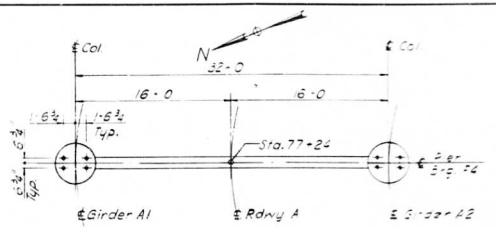
PIERS A26 AND A27

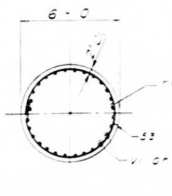
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

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

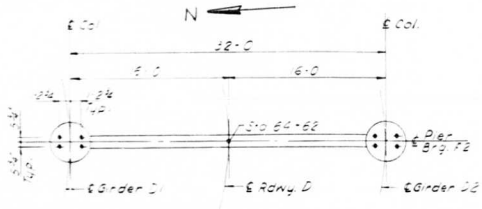
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

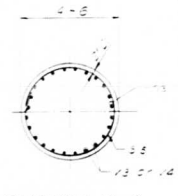
SHEET 169 or 241





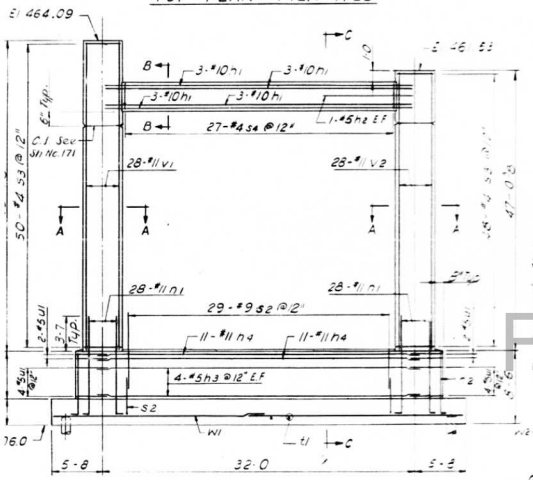
SECTION A-A



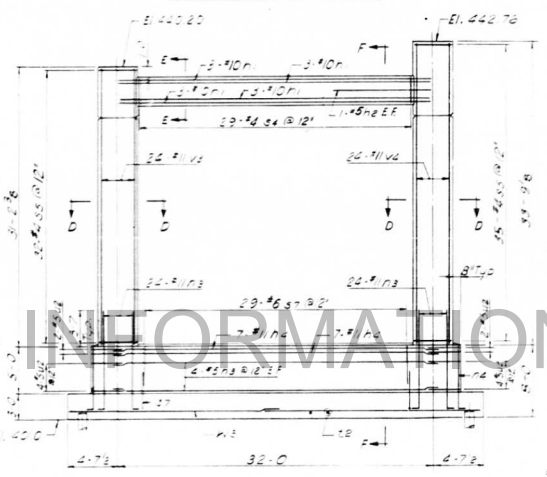


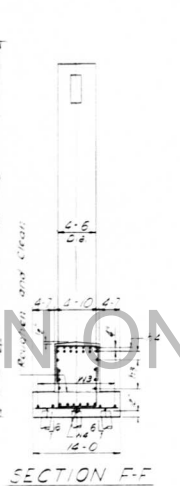
SECTION D-D

TOP PLAN - PIER A28



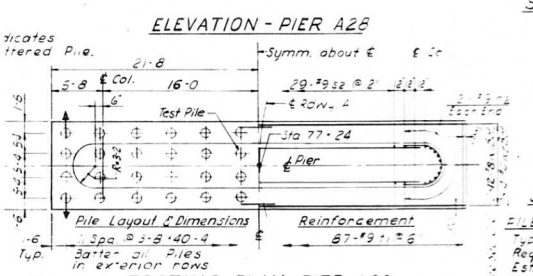
TOP PLAN - PIER D17

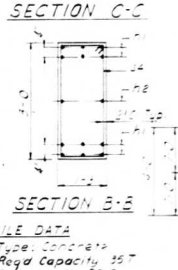




SECTION F-F

ELEVATION - PIER A28

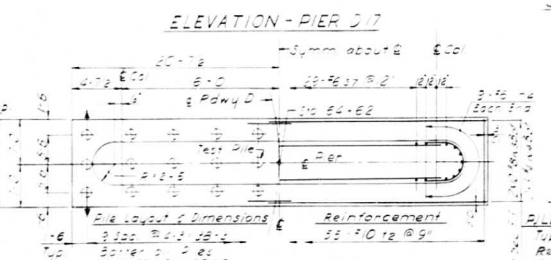


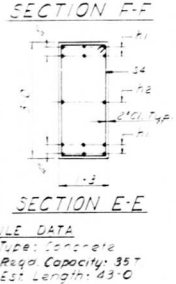


SECTION B-B

PILE DATA
Type: Concrete
Regd Capacity: 35 T
Est Length: 38'-0
No. Regd: 47*
Test Pile: 1
*Does not include Test Pile

ELEVATION - PIER D17





SECTION E-E

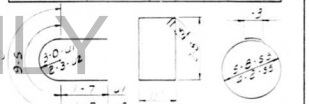
PILE DATA
Type: Concrete
Regd Capacity: 35 T
Est Length: 43'-0
No. Regd: 69*
Test Pile: 1
*Does not include Test Pile

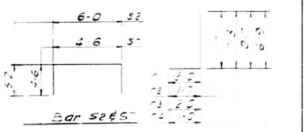
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	205
FED. ROAD DIV. NO. 4		ILLINOIS PROJECT		

BILL OF MATERIAL

Mark	No. Regd Pier A28	No. Regd Pier D17	Size	Length	Shape
170 h1	12	12	#10	32'-4	
170 h2	2	2	#5	32'-6	
170 h3	8	8	#5	33'-0	
170 h4	22	14	#11	33'-0	
170 n1	56	-	#11	13'-1	
170 n2	24	-	#9	6'-10	
170 n3	-	48	#11	12'-7	
170 n4	-	18	#6	7'-9	
170 s2	58	-	#9	16'-4	
170 s3	98	-	#4	19'-1	
170 s4	27	29	#4	8'-0	
170 s5	-	67	#4	14'-4	
170 s7	-	58	#6	3'-6	
170 t1	37	-	#9	15'-6	
170 t2	-	55	#10	13'-6	
170 u1	12	-	#5	15'-7	
170 u2	-	12	#5	10'-0	
170 v1	28	-	#11	43'-5	
170 v2	28	-	#11	26'-10	
170 v3	-	24	#11	31'-0	
170 v4	-	24	#11	33'-7	
170 w1	24	-	#8	22'-9	
170 w2	8	-	#4	22'-1	
170 w3	-	20	#8	21'-7	
170 w4	-	6	#4	21'-1	
333 Vars X	Sh. Vs 25				

Item	Unit	Total Per A28	Total Per D17
Class "X" Concrete	CY	254.8	138.4
Reinforcement Bars	Lbs.	36,680	22,650
Concrete Piles	LF	1786*	1247*
Test Piles (Concrete)	Ea.	1	1





For Notes see Sh. No. 171
For Geometric Layout See Sh. No. 20 & 21

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

PIERS A28 AND D17

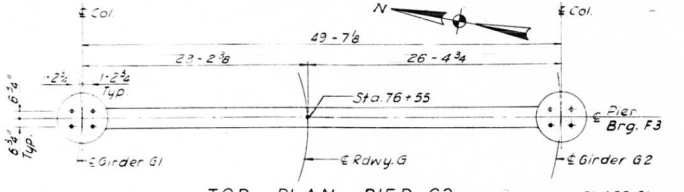
POPLAR STREET BRIDGE APPROACHES
ROADWAYS "A" AND "D"

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

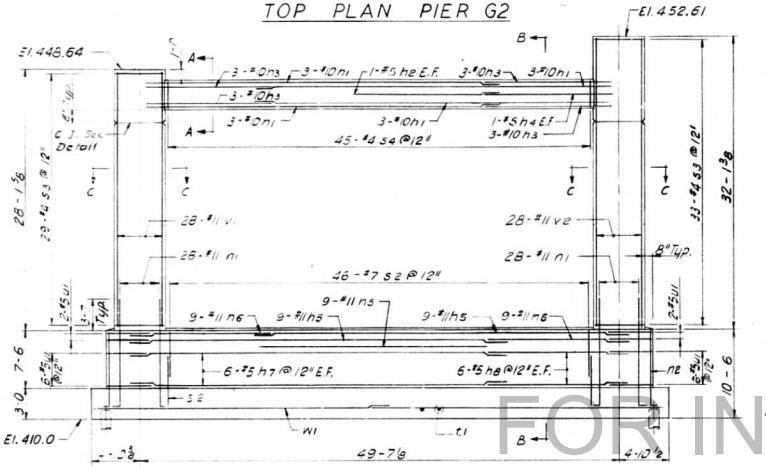
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 170 of 204

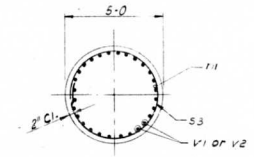
A.C.
I.M.
G.C.H.
K.A.



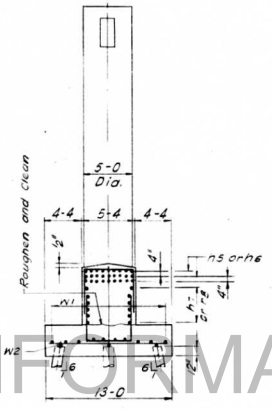
TOP PLAN PIER G2



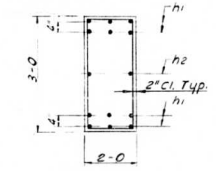
ELEVATION PIER G2



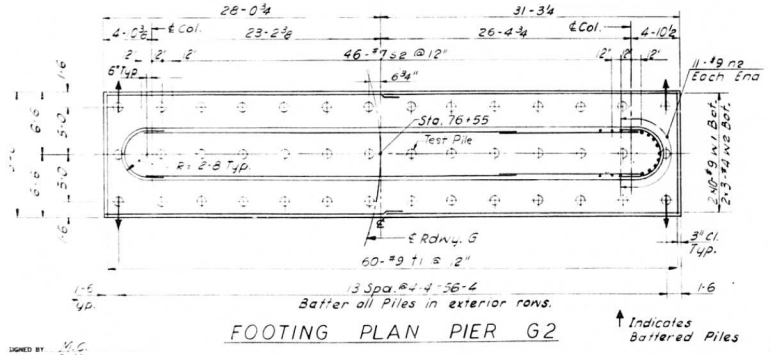
SECTION C-C



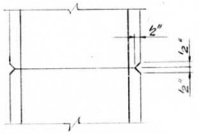
SECTION B-B



SECTION A-A



FOOTING PLAN PIER G2



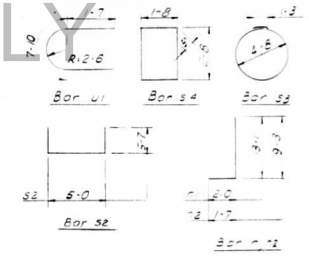
CONSTRUCTION JOINT DETAIL

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	206
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

BILL OF MATERIAL

• Mark	No Reqd.	Size	Length	Shape
171 h1	12	# 10	35'-1	
171 h3	2	# 5	33'-6	
171 h4	12	# 10	18'-0	
171 h6	2	# 5	14'-5	
171 n5	27	# 11	36'-0	
171 h6	16	# 11	18'-2	
171 h7	12	# 5	36'-0	
171 h8	12	# 5	16'-2	
171 n1	56	# 11	16'-1	
171 n2	22	# 9	10'-10	
171 s2	92	# 7	16'-2	
171 s3	62	# 4	5'-1	
171 s4	45	# 4	9'-6	
171 t1	60	# 9	12'-6	
171 w1	16	# 5	11'-0	
171 v1	28	# 11	27'-11	
171 v2	28	# 11	31'-11	
171 w1	20	# 9	30'-10	
171 w2	6	# 4	30'-0	

Item	Unit	Total
Class 'X' Concrete	C.Y.	215.8
Reinforcement Bars	Lbs.	33480
Concrete Piles	L.F.	1645*
Test Piles (Concrete)	Ea.	1



• See Note 'X' Sh No 25.
For Geometric Layout see Sh No 21

PILE DATA
Type: Concrete
Regd Capacity: 35T
Est Length: 45'-0
No. Reqd.: 41*
Test Pile: 1
*Does not include Test Pile

Notes:
Space reinforcement in top of column to miss anchor bolts.
All edges shall have standard ¾" chamfers except as noted.

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

PIER G2

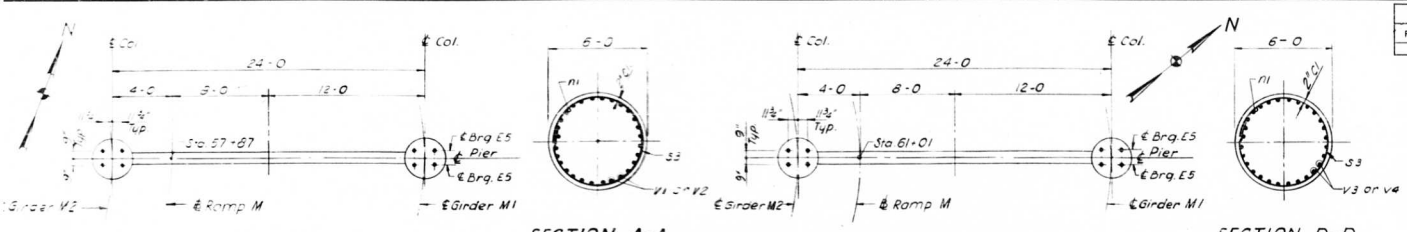
POPLAR STREET BRIDGE APPROACHES
ROADWAY "G"

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

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

SHEET 171 of 241

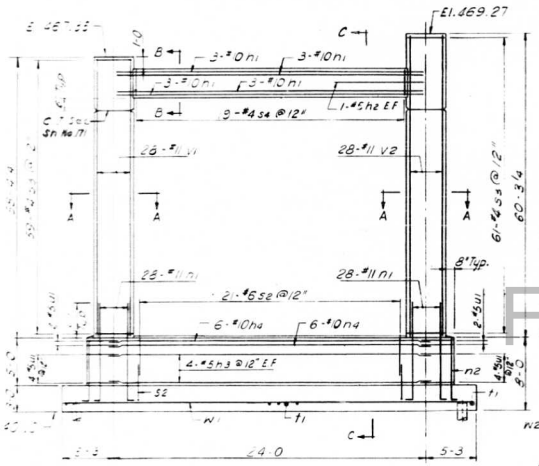
DESIGNED BY M.C.
DRAWN BY C.V.
CHECKED BY J.H.
APPROVED BY M.A.



SECTION A-A

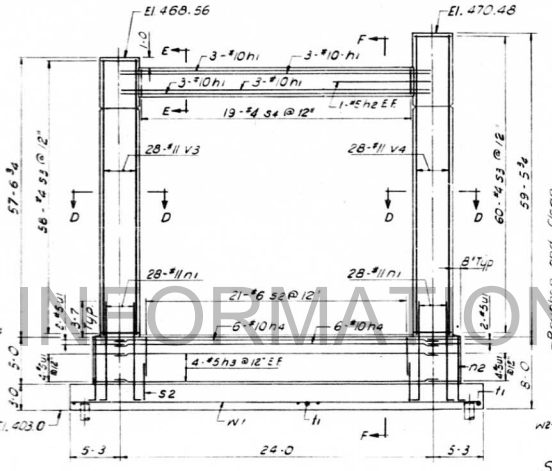
SECTION D-D

TOP PLAN - PIER M3

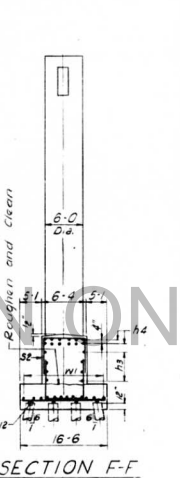


SECTION C-C

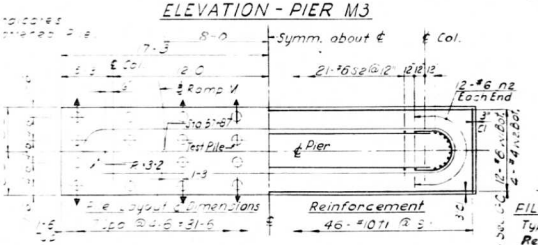
TOP PLAN - PIER M6



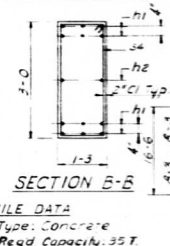
SECTION F-F



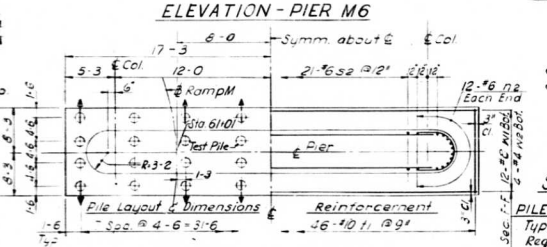
ELEVATION - PIER M3



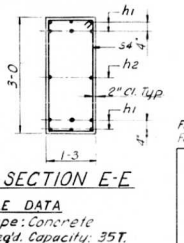
SECTION B-B



ELEVATION - PIER M6



SECTION E-E



FILE DATA
Type: Concrete
Reqd Capacity: 35T.
Est Length: 53'-0
No. Reqd.: 31*
Test Pile: 1
*Does not include Test Pile

FOOTING PLAN - PIER M3

FILE DATA
Type: Concrete
Reqd. Capacity: 35T.
Est. Length: 55'-0
No. Reqd.: 31*
Test Pile: 1
*Does not include Test Pile

FOOTING PLAN - PIER M6

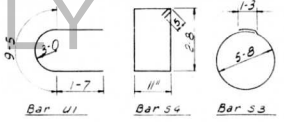
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82-3HVB	ST. CLAIR	289	207
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

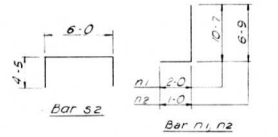
BILL OF MATERIAL

•Mark	No. Reqd. Pier M3	No. Reqd. Pier M6	Size	Length	Shape
172 h1	12	12	#10	22-4	—
172 h2	2	2	#5	20-6	—
172 h3	8	8	#5	25-0	—
172 h4	12	12	#10	25-0	—
172 n1	56	56	#11	12-7	L
172 n2	24	24	#6	7-9	L
172 s2	42	42	#6	14-10	⌐
172 s3	20	118	#4	19-1	○
172 s4	19	19	#4	8-0	□
172 t1	46	46	#10	16-0	—
172 u1	12	12	#5	12-7	⊂
172 v1	28	—	#11	58-2	—
172 v2	28	—	#11	60-1	—
172 v3	—	28	#11	57-4	—
172 v4	—	28	#11	59-3	—
172 w1	12	12	#8	34-0	—
172 w2	4	4	#4	34-0	—

• See Note 'X' Sh. No. 22

Item	Unit	Total Pier M3	Total Pier M6
Class 'X' Concrete	C.Y.	224.3	222.6
Reinforcement Bars	Lbs.	31,380	31,110
Concrete Piles	L.F.	1333 *	1705 *
Test Piles (Concrete)	Ea.	1	1





For Notes see Sh. No. 171
For Geometric Layout see Sh. No. 22

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

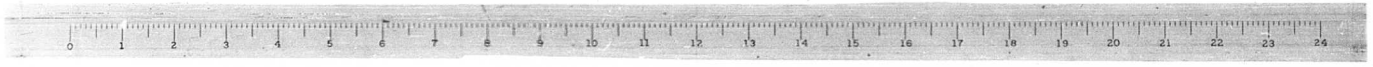
PIERS M3 AND M6

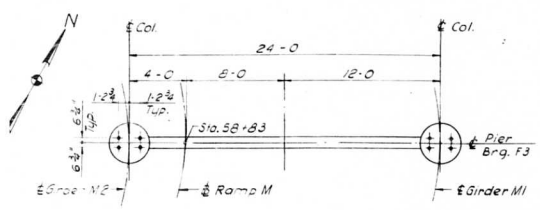
POPLAR STREET BRIDGE APPROACHES
RAMP "M"

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

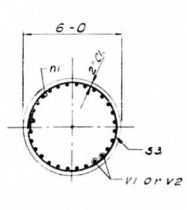
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

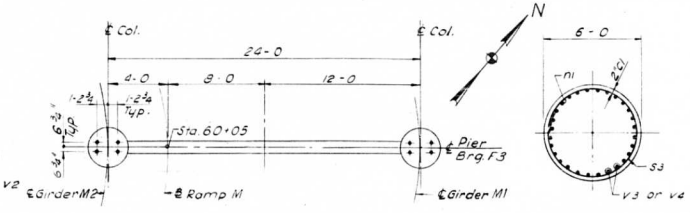
SHEET 172 of 241





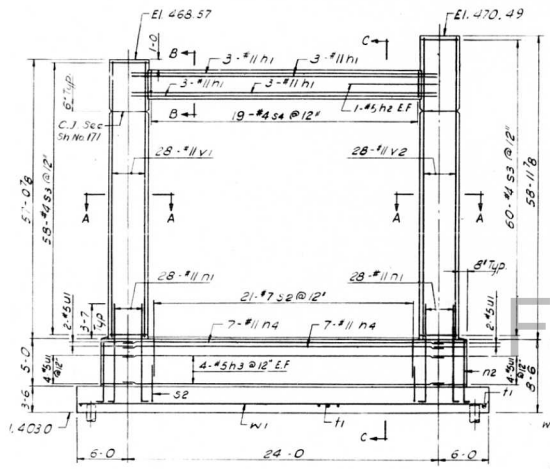
SECTION A-A



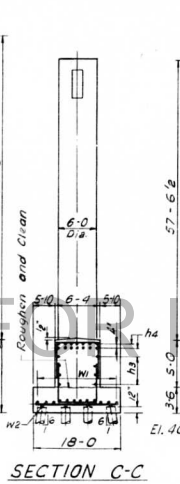


SECTION D-D

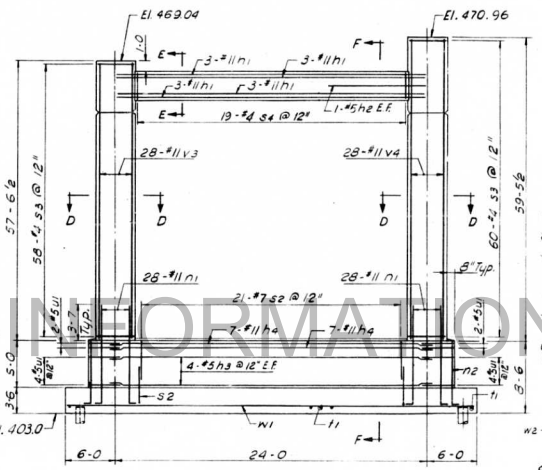
TOP PLAN - PIER M4



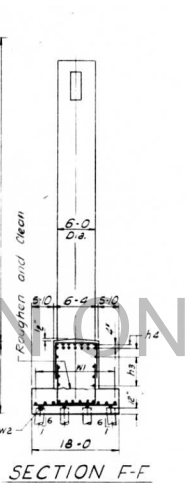
SECTION C-C



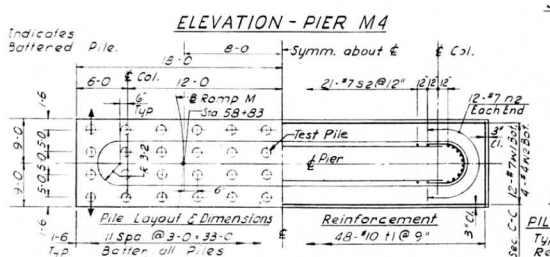
TOP PLAN - PIER M5



SECTION F-F

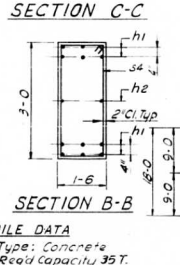


ELEVATION - PIER M4



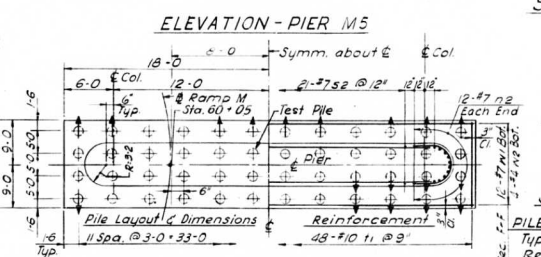
FOOTING PLAN - PIER M4

SECTION B-B



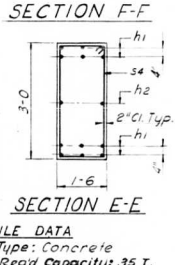
PILE DATA
Type: Concrete
Reqd Capacity 35 T.
Est. Length: 45-0
No. Reqd.: 47*
Test Pile: 1
* Does not include Test Pile

ELEVATION - PIER M5



FOOTING PLAN - PIER M5

SECTION E-E



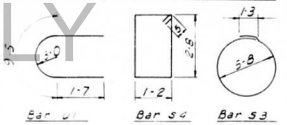
PILE DATA
Type: Concrete
Reqd Capacity: 35 T.
Est. Length: 46-0
No. Reqd.: 47*
Test Pile: 1
* Does not include Test Pile

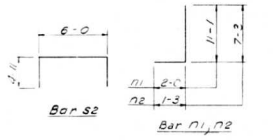
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F A I — 70	82-3HVB	ST. CLAIR	289	208
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

BILL OF MATERIAL

Mark	No. Reqd. Pier M4	No. Reqd. Pier M5	Size	Length	Shape
173 n1	12	12	#11	22-10	
173 n2	2	2	#5	20-6	
173 n3	6	8	#5	25-0	
173 n4	14	14	#11	25-0	
173 n1	56	56	#11	13-1	
173 n2	24	24	#7	8-6	
173 s2	42	42	#7	15-10	
173 s3	118	118	#4	19-0	
173 s4	19	19	#4	8-6	
173 *	48	48	#10	17-6	
173 u1	12	12	#5	12-7	
173 V1	28	-	#11	56-10	
173 V2	28	-	#11	58-9	
173 V3	-	28	#11	57-4	
173 V4	-	28	#11	59-3	
173 w1	12	12	#7	35-6	
173 w2	4	4	#4	35-6	
* See Note "X" Sh.	No. 25				

Item	Unit	Total Pier M4	Total Pier M5
Class 'X' Concrete	C.Y.	242.4	243.4
Reinforcement Bars	Lbs.	32,770	32,920
Concrete Piles	L.F.	2115 *	2162*
Test Piles (Concrete)	Ea.	1	1





For Notes see Sh. No. 171
For Geometric Layout see Sh. No. 22

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

PIERS M4 AND M5

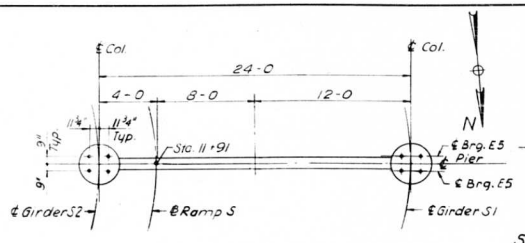
POPLAR STREET BRIDGE APPROACHES
RAMP "M"

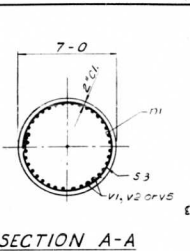
F A I RT. 70 ST. CLAIR CO. SECTION 82-3HVB

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

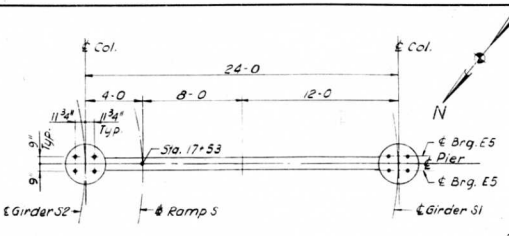
SHEET 173 OF 241

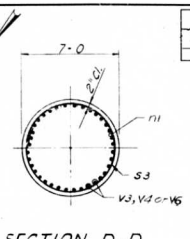
D BY M.C
BY I.M.
D BY G.C.H.
ED BY





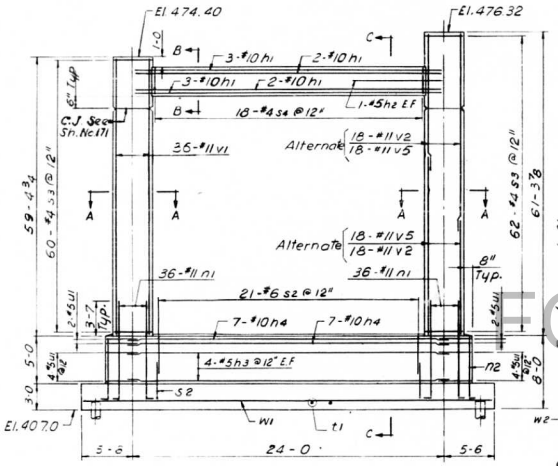
SECTION A-A

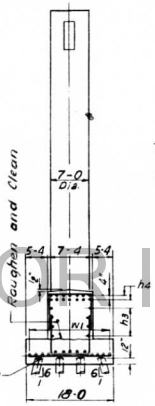




SECTION D-D

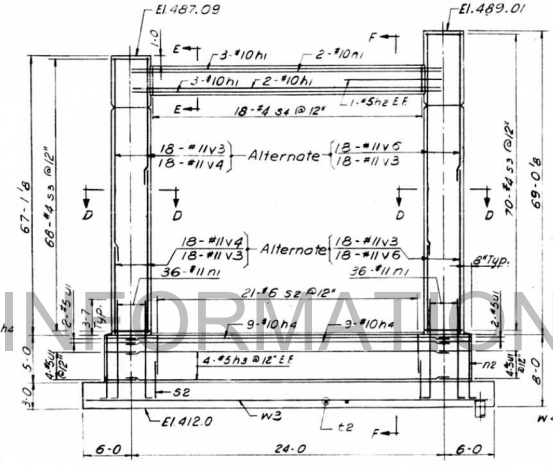
TOP PLAN - PIER S10

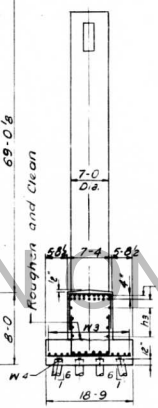




SECTION C-C

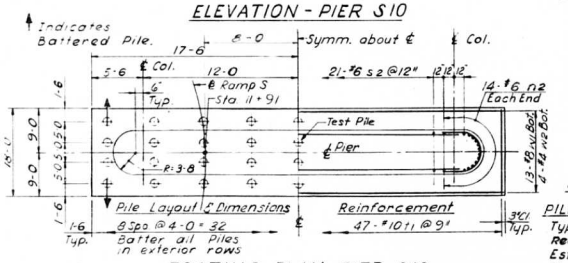
TOP PLAN - PIER S15





SECTION F-F

ELEVATION - PIER S10

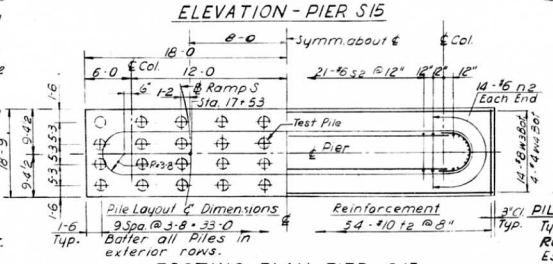


FOOTING PLAN - PIER S10

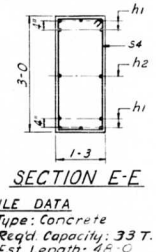
SECTION B-B

PILE DATA
Type: Concrete
Reqd. Capacity: 32T.
Est. Length: 42-0
No. Reqd: 35*
Test Pile: 1
* Does not include Test Pile

ELEVATION - PIER S15



FOOTING PLAN - PIER S15



SECTION E-E

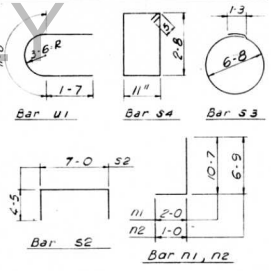
PILE DATA
Type: Concrete
Reqd. Capacity: 33 T.
Est. Length: 46-0
No. Reqd.: 39*
Test Pile: 1
*Does not include Test Pile

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82—3HVB	ST. CLAIR	289	209
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

*Mark	No. Reqd. Pier S10	No. Reqd. Pier S15	Size	Length	Shape
174 h1	10	10	# 10	21-4	—
174 h2	2	2	# 5	19-6	—
174 h3	8	8	# 5	25-0	—
174 h4	18	18	# 10	25-0	—
174 n1	72	72	# 11	12-7	L
174 n2	28	28	# 6	7-9	L
174 s2	42	42	# 6	15-10	⌐
174 s3	122	138	# 4	22-2	○
174 s4	18	18	# 4	8-0	□
174 t1	47	-	# 10	17-6	—
174 t2	-	54	# 10	18-3	—
174 u1	12	12	# 5	14-2	⌐
174 v6	—	36	# 11	47-7	⌐
174 v1	36	-	# 11	59-2	—
174 v2	36	-	# 11	21-8	—
174 v3	-	72	# 11	24-10	—
174 v4	-	36	# 11	45-10	—
174 v5	36	-	# 11	43-2	—
174 w1	13	-	# 8	34-6	—
174 w2	4	-	# 4	34-6	—
174 w3	-	14	# 8	35-6	—
174 w4	-	4	# 4	35-6	—

Item	Unit	Total Pier S10	Total Pier S15
Class 'X' Concrete	C.Y.	285.2	312.1
Reinforcement Bars	Lbs.	39,850	44590
Concrete Piles	L.F.	1470*	1872*
Test Piles Concrete	Ea.	1	1



* See Note 'X' Sh. No 25
For Notes see Sh. No. 171
For Geometric Layout See Sh. No. 23

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

PIERS S10 AND S15

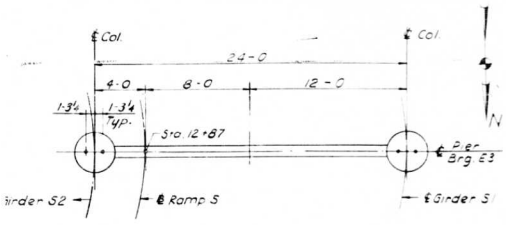
POPLAR STREET BRIDGE APPROACHES
RAMP "S"

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

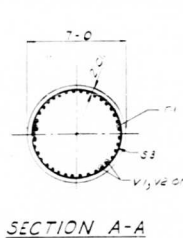
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 174 OF 211

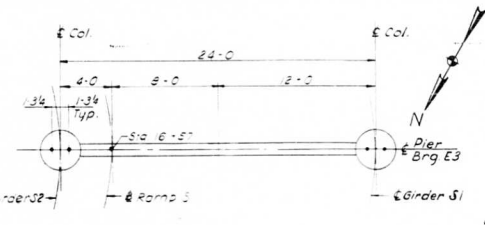
DESIGNED BY Y.C.
DRAWN BY I.M.
CHECKED BY S.C.H.
APPROVED BY



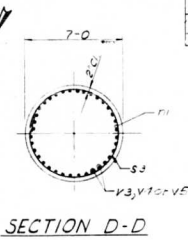
TOP PLAN - PIER S11



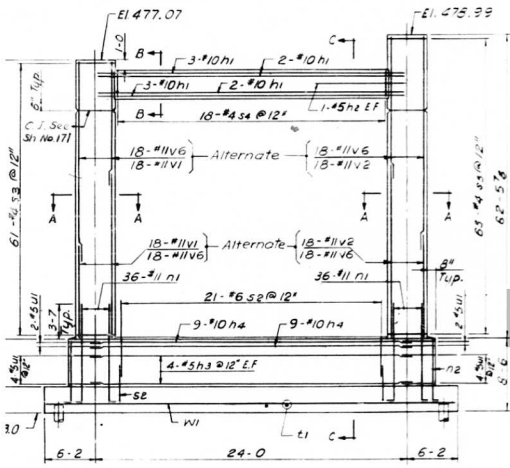
SECTION A-A



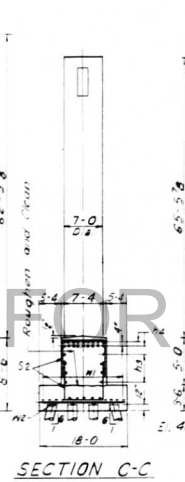
TOP PLAN - PIER S14



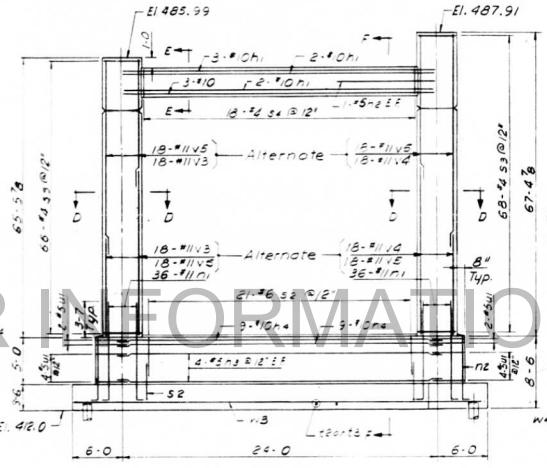
SECTION D-D



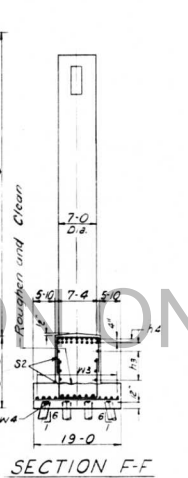
ELEVATION - PIER S11



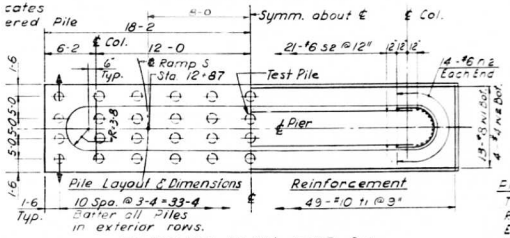
SECTION C-C



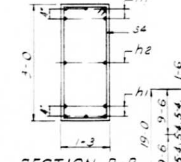
ELEVATION - PIER S14



SECTION F-F

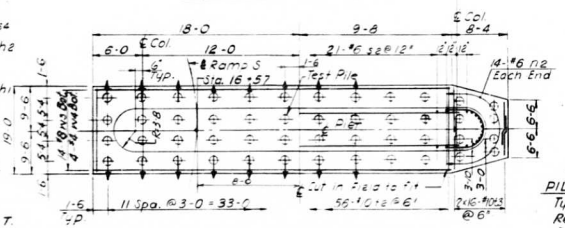


FOOTING PLAN - PIER S11

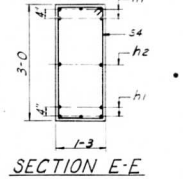


SECTION B-B

PILE DATA
Type: Concrete
Regd. Capacity: 34 T.
Est. Length: 43-0
No. Regd.: 43*
Test Pile: 1
*Does not include Test Pile



FOOTING PLAN - PIER S14



SECTION E-E

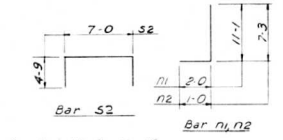
PILE DATA
Type: Concrete
Regd. Capacity: 34 T
Est. Length: 44-0
No. Regd.: 47*
Test Pile: 1
*Does not include Test Pile

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F A I —70	82—3HVB	ST. CLAIR	289	210
FED. ROAD DIV.—NO. 4		ILLINOIS	PROJECT	

BILL OF MATERIAL

*Mark	No. Regd. Pier S11	No. Regd. Pier S14	Size	Length	Shape
175 h1	10	10	#10	21-4	
175 h2	2	2	#5	19-6	
175 h3	8	8	#5	25-0	
175 h4	18	18	#10	25-0	
175 n1	72	72	#11	13-1	
175 n2	28	28	#6	8-3	
175 s2	42	42	#6	16-6	
175 s3	124	134	#4	22-2	
175 s4	18	18	#4	8-0	
175 u1	12	12	#5	14-2	
175 t1	49	-	#10	17-6	
175 t2	-	56	#10	18-6	
175 t3	-	32	#10	10-6	
175 v5	-	72	#11	24-0	
175 v6	72	-	#11	22-0	
175 v1	36	-	#11	42-0	
175 v2	36	-	#11	43-10	
175 v3	-	36	#11	44-10	
175 v4	-	36	#11	46-9	
175 w1	13	-	#8	35-10	
175 w2	4	-	#4	35-10	
175 w3	-	14	#8	35-6	
175 w4	-	4	#4	35-6	

Item	Unit	Total Pier S11	Total Pier S14
Class 'X' Concrete	C.Y.	308.1	314.4
Reinforcement Bars	Lbs.	41,470	45,780
Concrete Piles	L.F.	1849 *	2066 *
Test Piles Concrete	Ea.	1	1



• See Note X, Sh. No. 25

For Notes see Sh. No. 171
For Geometric Layout See Sh. No. 23

M. G.
I. M.
S. C. H.
M. A.

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

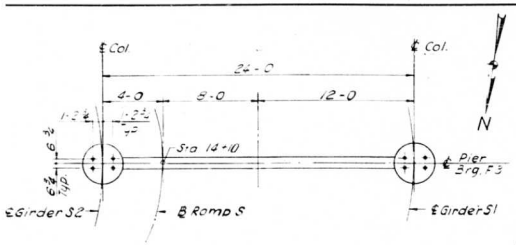
PIERS S11 AND S14

POPLAR STREET BRIDGE APPROACHES
RAMP "S"

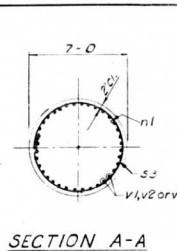
F A I RT 70 ST. CLAIR CO. SECTION 82—3HVB

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

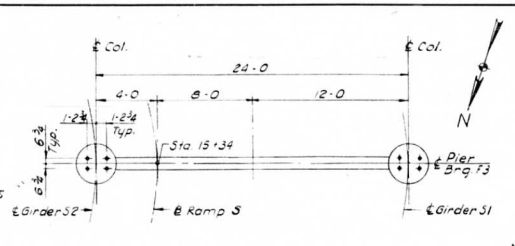
SHEET 175 OF 241



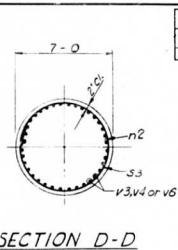
TOP PLAN - PIER S12



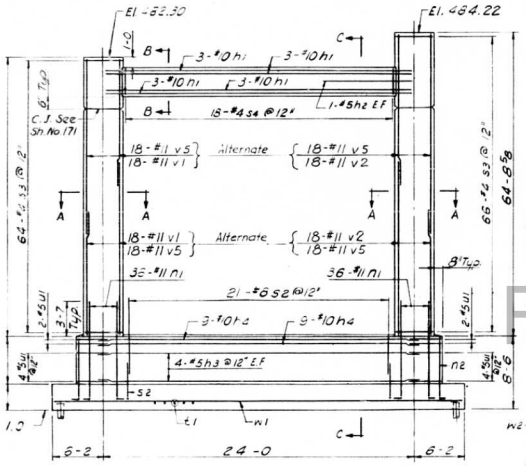
SECTION A-A



TOP PLAN - PIER S13

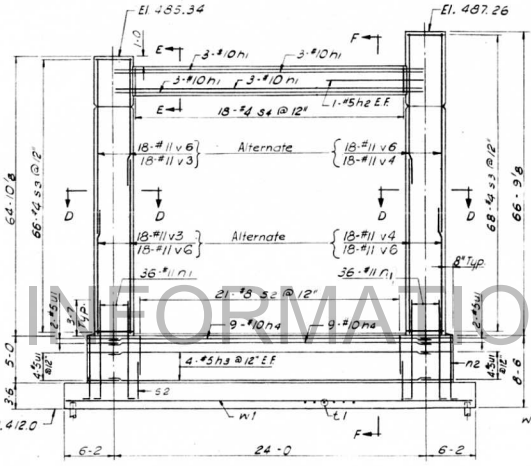


SECTION D-D

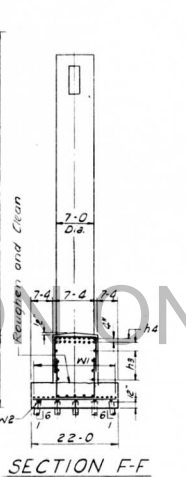


ELEVATION - PIER S12

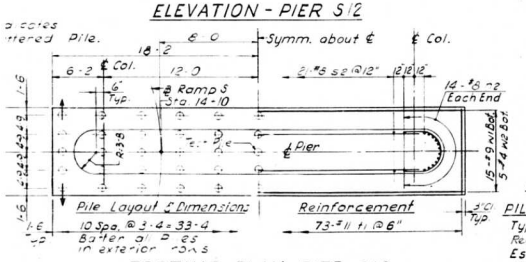
SECTION C-C



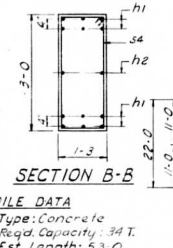
ELEVATION - PIER S13



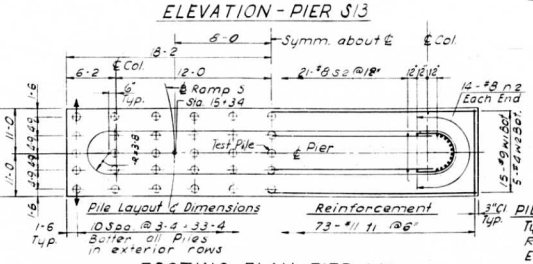
SECTION F-F



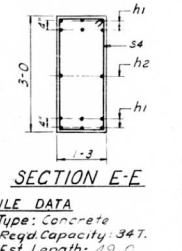
FOOTING PLAN - PIER S12



SECTION B-B



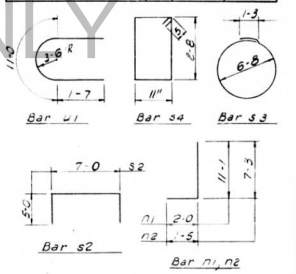
FOOTING PLAN - PIER S13



SECTION E-E

PILE DATA
Type: Concrete
Reqd. Capacity: 34 T.
Est. Length: 53.0
No. Reqd: 54*
Test Pile: 1
*Does not include Test Pile

PILE DATA
Type: Concrete
Reqd. Capacity: 34 T.
Est. Length: 49.0
No. Reqd.: 54*
Test Pile: 1
*Does not include Test Pile.



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	211
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

*Mark	No. Reqd. Pier S12	No. Reqd. Pier S13	Size	Length	Shape
176 h1	12	12	# 10	21'-4	
176 h2	2	2	# 5	19'-6	
176 h3	8	8	# 5	25'-0	
176 h4	18	18	# 10	25'-0	
176 n1	72	72	# 11	13'-1	
176 n2	28	28	# 8	8'-8	
176 s2	42	42	# 8	17'-0	
176 s3	130	134	# 4	22'-2	
176 s4	18	18	# 4	8'-0	
176 t1	73	73	# 11	21'-6	
176 w1	12	12	# 5	14'-2	
176 v5	72	-	# 11	23'-3	
176 v1	36	-	# 11	43'-0	
176 v2	36	-	# 11	44'-10	
176 v3	-	36	# 11	44'-3	
176 v4	-	36	# 11	46'-2	
176 v6	-	72	# 11	24'-0	
176 w1	15	15	# 9	35'-10	
176 w2	5	5	# 4	35'-10	

*See Notes 'X' Sh. No. 85

Item	Unit	Total Pier S12	Total Pier S13
Class 'X' Concrete	C.Y.	328.0	333.8
Reinforcement Bars	Lbs.	49,020	49,870
Concrete Piles	L.F.	2662 *	2646 *
Test Piles Concrete	Ea.	1	1

For Notes see Sh. No. 171
For Geometric Layout See Sh. No. 23

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

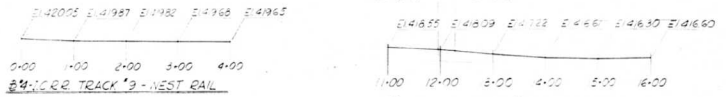
PIERS S12 AND S13

POPLAR STREET BRIDGE APPROACHES
RAMP "S"

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

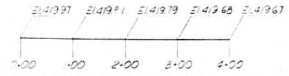
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 176 of 241

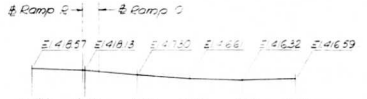


℄ "4 - I.C.R.R. TRACK "9 - WEST RAIL

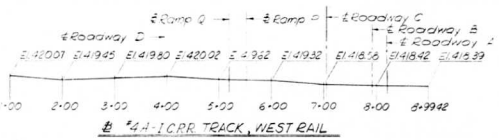
℄ "4 - I.C.R.R. TRACK "1D - WEST RAIL



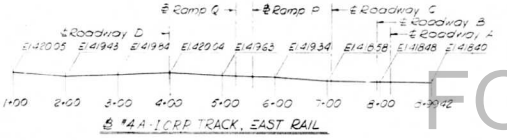
℄ "4 - I.C.R.R. TRACK "9 - EAST RAIL



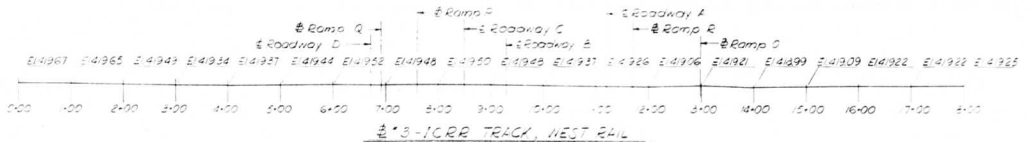
℄ "4 - I.C.R.R. TRACK "1D - EAST RAIL



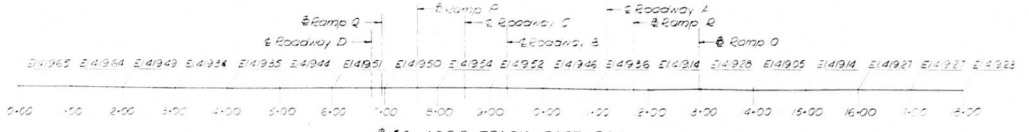
℄ "4 H - I.C.R.R. TRACK, WEST RAIL



℄ "4 A - I.C.R.R. TRACK, EAST RAIL



℄ "3 - I.C.R.R. TRACK, WEST RAIL



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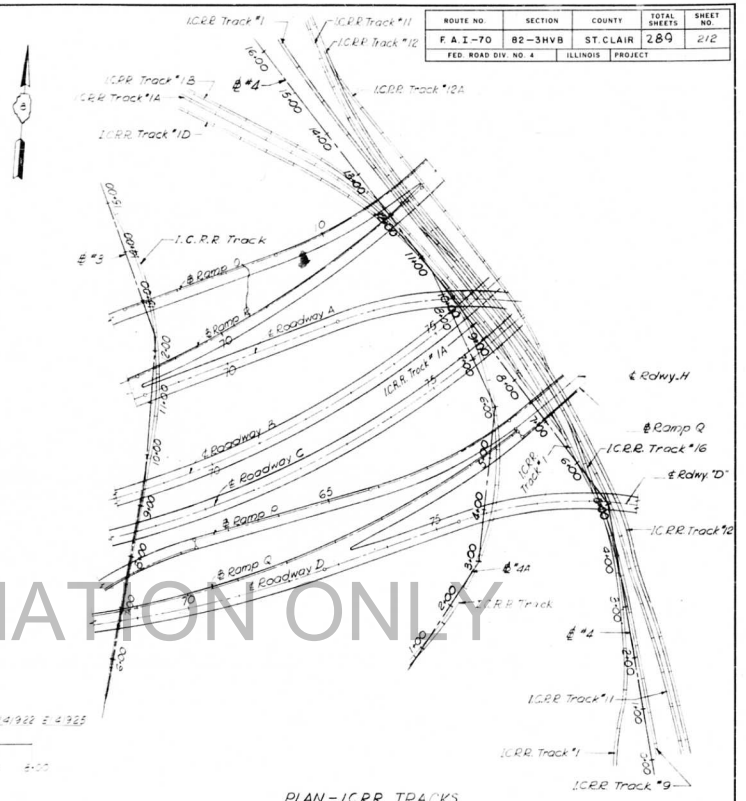


PLAN - I.C.R.R. TRACKS
Scale: 1" = 100'
For Track "1, "11, "12, "1A, "1B & "12A
Profiles see Sheet No 178

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I-70	82-3HVB	ST. CLAIR	289	212
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

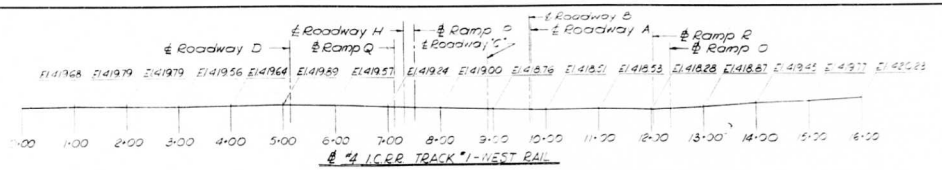
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
ILLINOIS CENTRAL RAILROAD

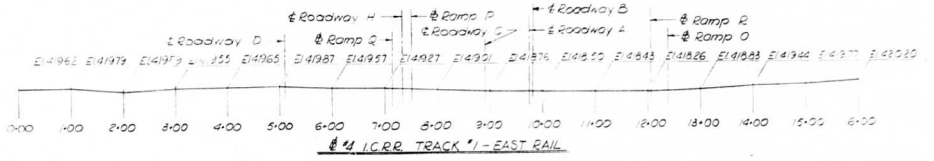
PROFILES

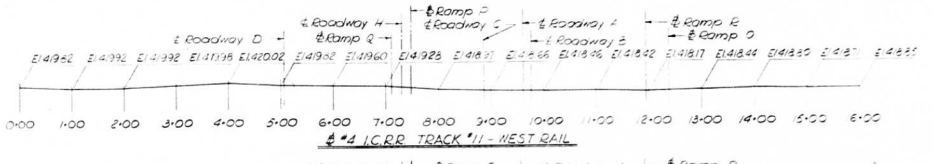
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

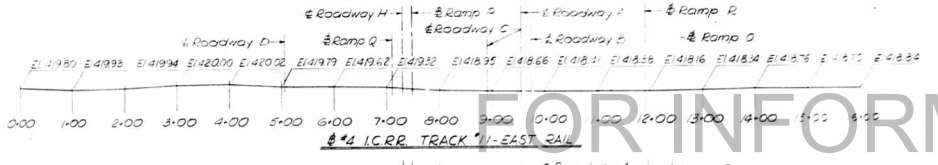
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

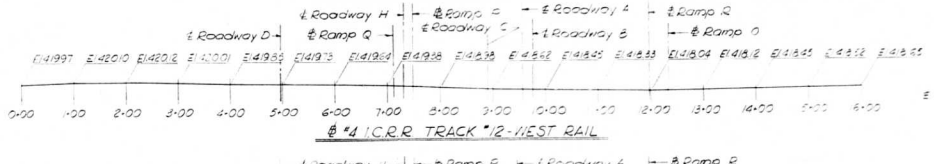
SHEET 177 of 241

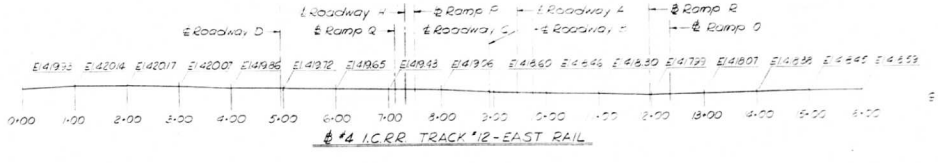


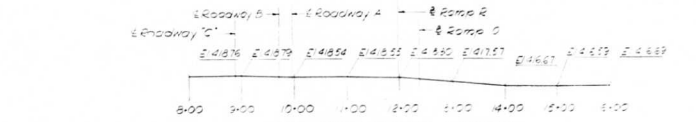


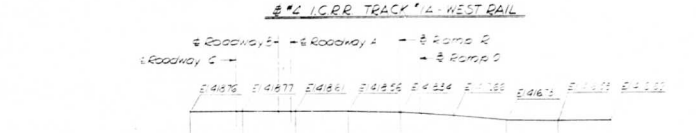


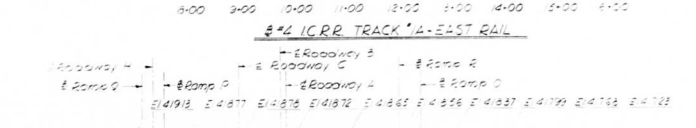


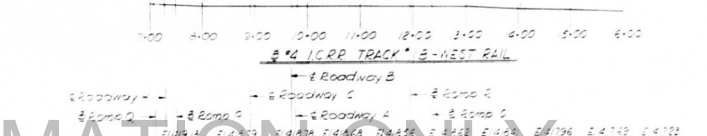


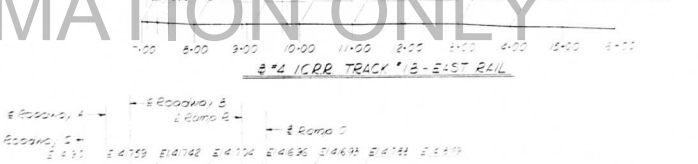


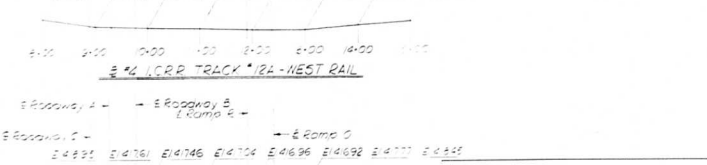












ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F A I - 70	82-3 H V B	ST CLAIR	289	2/3
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

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

ILLINOIS CENTRAL RAILROAD

PROFILES

F A I RT 70 ST CLAIR CO. SECTION 82-3 H V B

H. W. LOCHNER INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET
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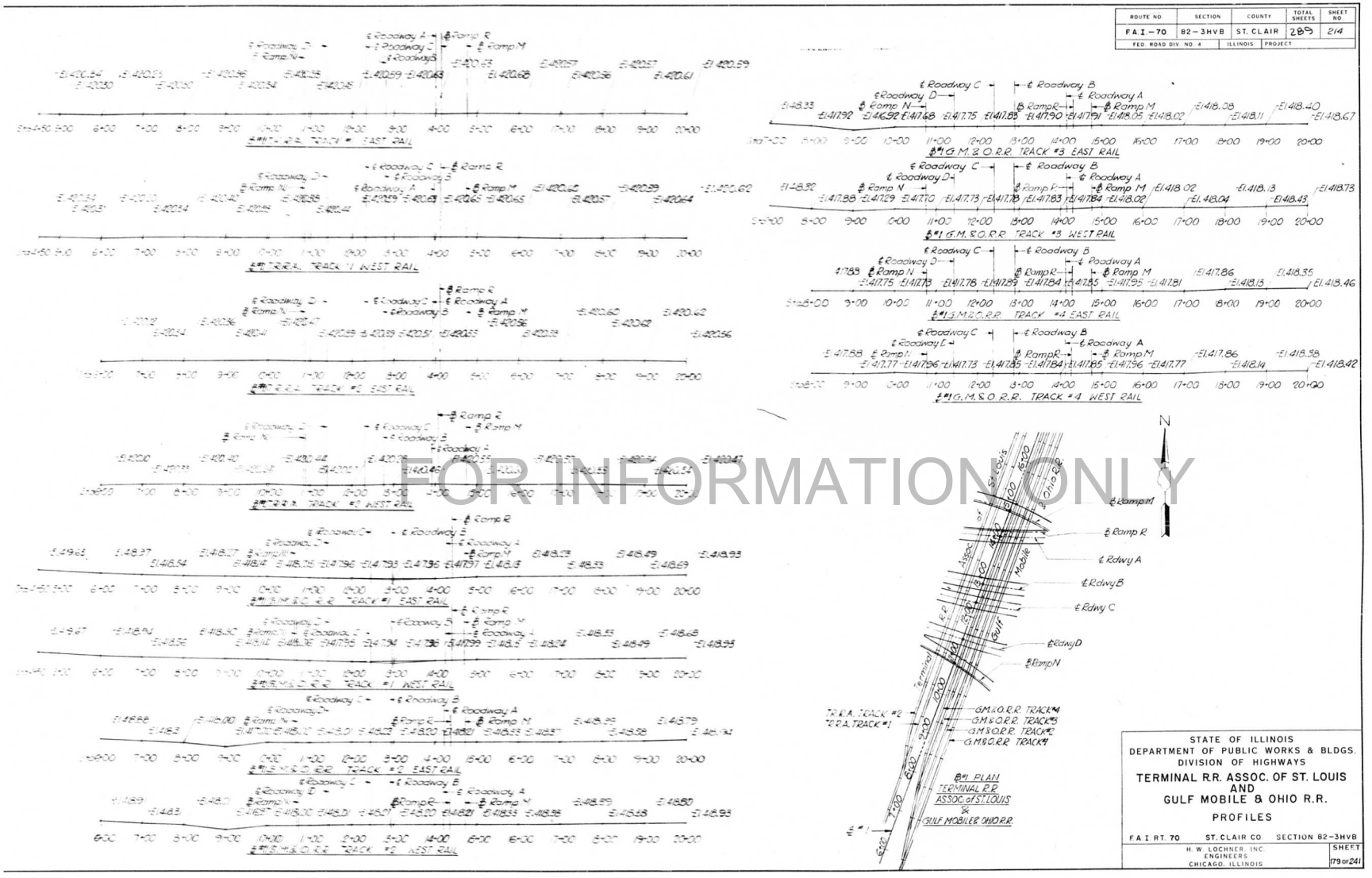
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.I – 70	82 – 3HVB	ST. CLAIR	289	214
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	



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

TERMINAL R.R. ASSOC. OF ST. LOUIS AND GULF MOBILE & OHIO R.R.

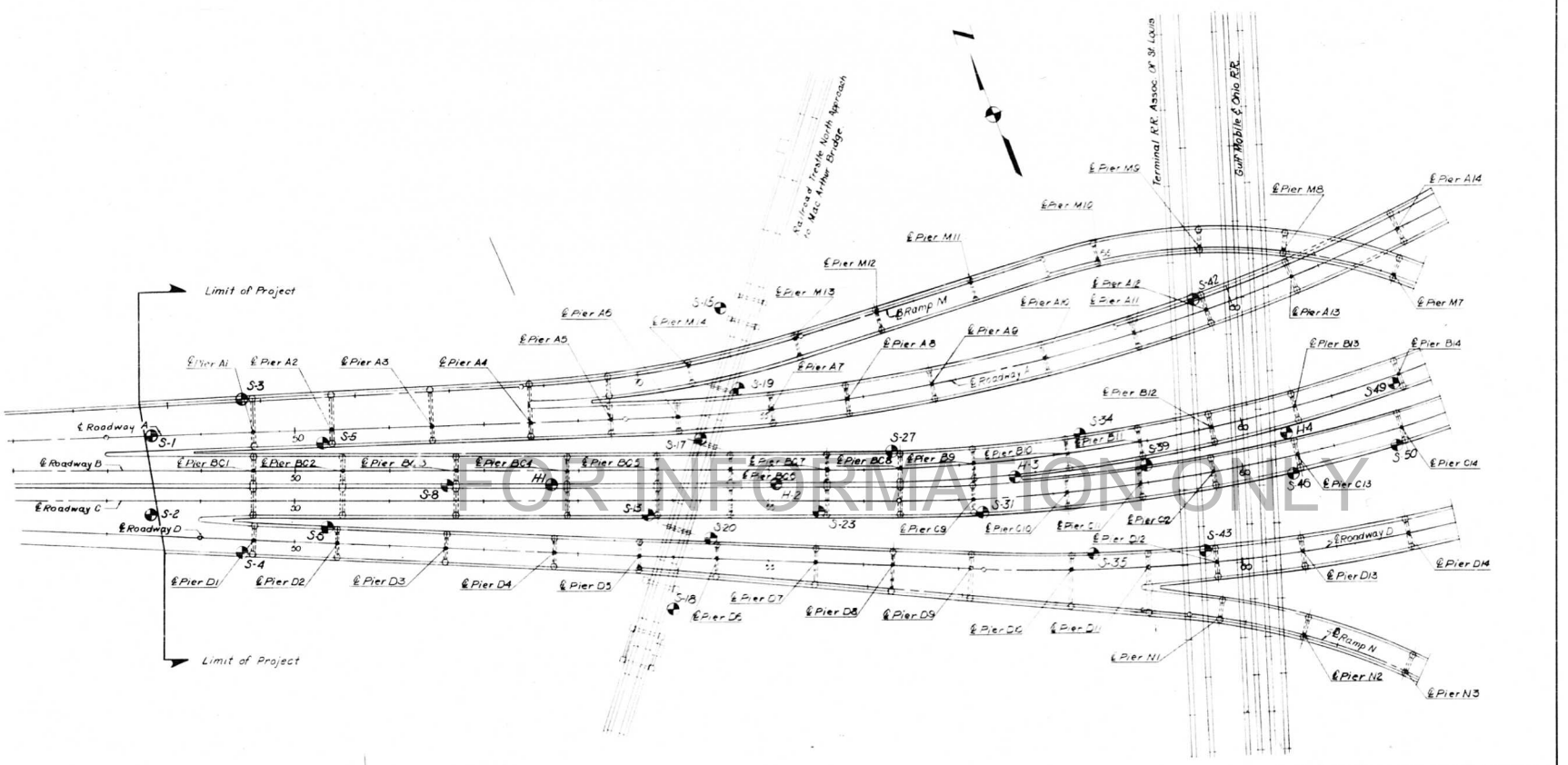
PROFILES

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

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

SHEET 179 OF 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I—70	82-3HVB	ST. CLAIR	289	815
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	



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

POPLAR STREET BRIDGE APPROACHES

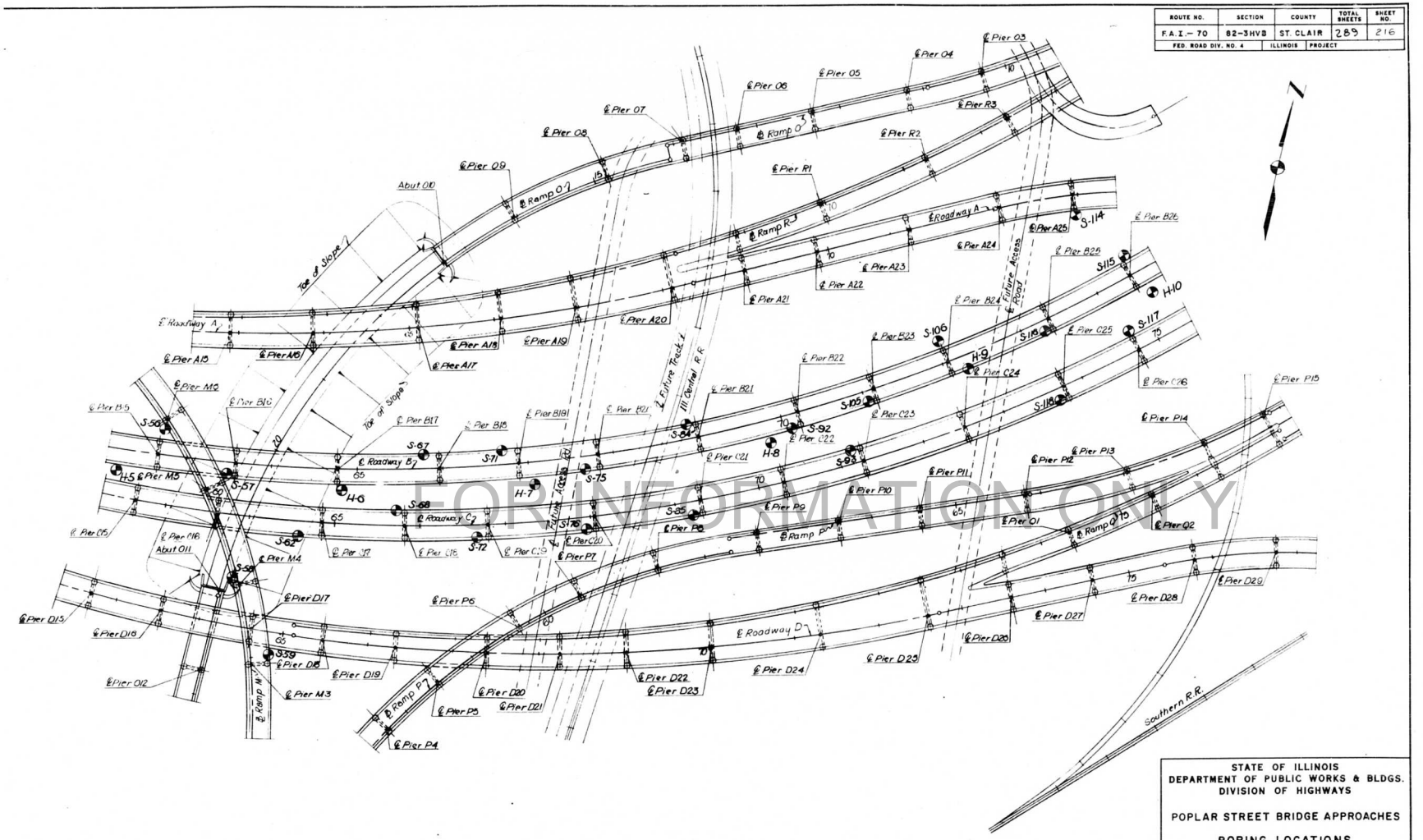
BORING LOCATIONS

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

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

SHEET
180 of 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. – 70	82-3HVB	ST. CLAIR	289	216
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



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

POPLAR STREET BRIDGE APPROACHES

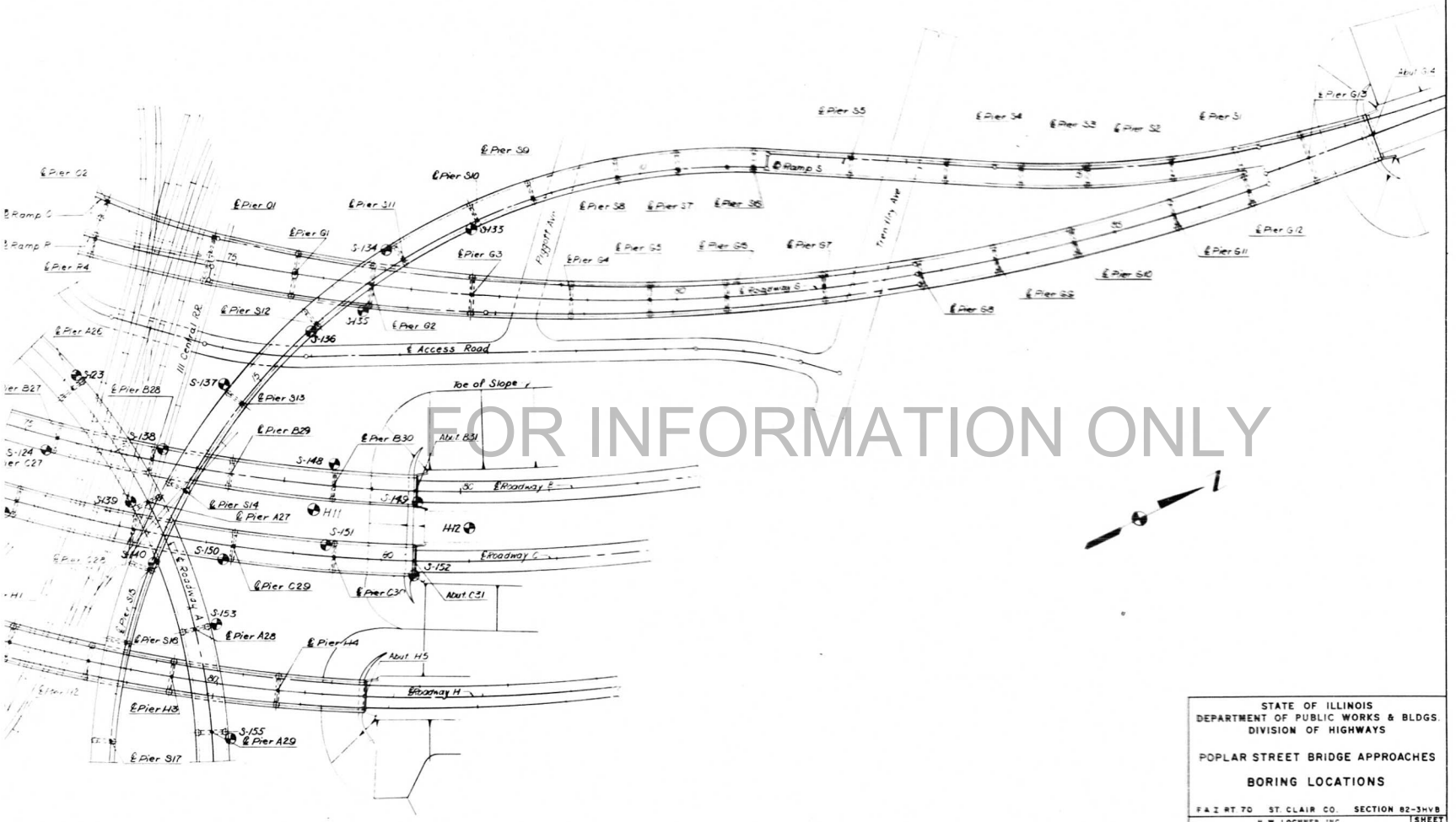
BORING LOCATIONS

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

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

SHEET 181 OF 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I – 70	82-3HVB	ST. CLAIR	289	2
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	



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

POPLAR STREET BRIDGE APPROACHES

BORING LOCATIONS

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

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

SHEET 182 OF 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82—3HVB	ST. CLAIR	289	218
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. H-1

	Elevation	N	Qu T/s.f.	w (%)
Ground Surface	404.7	0		
Topsoil	403.7			
Very soft gray-mottled sandy clay	397.7	-5		
		3	.2 B	23%
		5	.9 B	14%
Medium brown sandy clay	392.7	-10		
		5	.6 B	11%
		3	.7 B	11%
Medium gray fatty clay	382.7	-15		
		3 Lost		
		4	.6 S	12%
		2	Lost	
	375.2	-20		
Medium very fine gray sand		10		
		20		
		23		
Dense fine gray sand	372.7	-30		
		40		
Medium fine gray sand	367.7	-35		
		16		
		23		
Dense fine gray sand	362.7	-40		
		32		
		33		
Medium fine gray sand	360.2	-45		
		24		
Very dense fine grey sand	355.2	-50		
		75		
		75		
Dense fine gray sand	352.7	-55		
		44		
Medium fine gray sand with small well graded gravel	347.7	-60		
		10		
		10		
		18		
		15		
Very dense gray sand	337.7	-65		
		50		
		62		
Dense gray sand	335.2	-70		
		37		
Very dense fine gray sand	332.7	-75		
		50		
		30		
Dense very fine gray silty sand	327.7	-80		
		34		
Dense very fine gray silty sand with rounded to sub-ang poorly graded gravel	325.2	-85		
		41		
Very dense fine gray silty sand	320.2	-90		
		55		
		58		
Dense fine gray silty sand	317.7	-95		
		35		
		17		
Medium coarse gray sand with occasional small well graded gravel	309.2	-100		
		11		
		13		
		12		
		10		
Loose coarse gray sand with occasional small well graded gravel	302.7	-105		
		8		
		19		
		26		
Medium coarse gray sand with occasional small well graded gravel	287.7	-110		
		22		
		10		
Medium gray sand with rounded to sub-angular poorly graded gravel	277.7	-120		
		23		
		20		
		refused drilled		
rock L.S. (LIMESTONE)		-130		
		-135		

BORING No. H-2

	Elevation	N	Qu T/s.f.	w (%)
Ground Surface	406.6	0		
Medium brownish-black top-soil	405.1			
Loose brown sandy loam with lens of silt	397.1	-5		
		4		
		6		
Loose brown coarse iron stained sand	394.6	-10		
		9		
		22		
Medium light brown fine sand	387.1	-15		
		22		
		28		
		41		
Dense light brown fine sand	382.1	-25		
		30		
Medium light brown fine sand	377.1	-30		
		22		
		18		
Loose gray fine sand with pieces of rotten wood	374.6	-35		
		5		
Medium gray fine sand	372.1	-40		
		20		
Loose gray fine sand	369.6	-45		
		5		
Medium gray fine sand	367.1	-50		
		17		
Dense fine gray sand	364.6	-55		
		42		
Very dense fine gray sand	362.1	-60		
		68		
Dense fine gray sand	359.6	-65		
		36		
Medium fine gray sand	357.1	-70		
		15		
Loose gray sand with small well graded gravel	352.6	-75		
		16		
		19		
Medium gray sand with small well graded gravel	342.6	-80		
		20		
Dense gray sand with small well graded gravel	337.6	-85		
		39		
Medium fine gray sand with small well graded gravel; lens of gray clay	332.6	-90		
		15		
Medium fine gray sand with small well graded gravel	317.6	-95		
		29		
		19		
Loose coarse gray sand with small well graded gravel	312.6	-100		
		9		
Medium coarse gray sand with small well graded gravel	312.6	-95		
		14		
Dense gray well graded sand with occasional gravel	302.6	-100		
		30		
		47		
Very dense gray sand with occasional gravel	297.6	-105		
		58		
		22		
Medium gray coarse sand with rounded to sub-angular poorly graded gravel	288.1	-115		
		17		
		refused drilled		
Very dense gray rotten limestone	286.1	-120 refused		

N – Standard Penetration Test – Blows per foot to drive 2' O.D. Split Spoon Sampler 12" with 140± hammer falling 30"

Qu – Unconfined Compressive Strength – t/sf

w – Water Content – percentage of oven dry weight – %

Type failure
B – Bulge Failure
S – Shear Failure
E – Estimated Value

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

F.A.I. RT 70 ST. CLAIR CO. SECTION 82—3HVB

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

SHEET 183 OF 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82-3HVB	ST. CLAIR	289	219
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

BORING No. H-3

Elevation	N	Qu-t/sf	w-(%)	Description
Ground Surface 404.6	0			
				Medium brownish-black top-soil
402.1				
	10			
	14			Medium light brown fine sand
	11			
	12			
	10			
	11			
385.1	-20			
	37			
	34			Dense very fine brown silty sand
	30			
377.6				
	26			
	22			Medium brown very fine sand with small well graded gravel
	14			
370.1	-35			
	25			Medium gray sand with small well graded gravel
	18			
365.1	-40			
	55			Very dense gray sand with rounded to sub-angular poorly graded gravel
362.1				
	35			Dense gray sand with rounded to sub-angular poorly graded gravel
360.1	-45			

Elevation	N	Qu-t/sf	w-(%)	Description
	-45			
				Medium gray sand with small well graded gravel
357.6	12			
				Loose gray sand with small well graded gravel
355.1	9			
	-60			
	67			Very dense very fine gray sand
350.6				
	-55			
	14			Medium very fine gray sand with small well graded gravel
345.6				
	-60			
	31			Dense very fine gray sand with small well graded gravel
340.6				
	-65			
	55			Very dense very fine gray sand with small well graded gravel
	-70			
	32			Dense very fine gray sand with small well graded gravel
330.6				
	-75			
	12			Medium coarse gray sand with small well graded gravel
325.6				
	-80			
	48			Dense coarse gray sand with rounded to sub-angular poorly graded gravel
320.6				
	-85			
	5			Loose coarse gray sand with rounded to sub-angular poorly graded gravel
315.6				
	-90			

Elevation	N	Qu-t/sf	w-(%)	Description
	-90			
	26			Medium gray coarse sand with rounded to sub-angular poorly graded gravel
	-95			
	25			
	-100			
	25			
300.6	-105			
	30			Dense gray coarse sand with small well graded gravel
294.1	-110			
	46	4.4	S	Hard gray clay till
290.6	-115		refused	
			drilled	Hard gray clay with lens of small well graded gravel
287.6			refused	
rock				

BORING No. H-4

Elevation	N	Qu-t/sf	w-(%)	Description
Ground Surface 417.4	0			
	11			Medium brown sand with some cinders (Fill)
	12			
	-10			
	10			
403.4				
	11			Medium brown sandy clay loam
400.4	-15			
	16			Medium brown fine silty sand
	-20			
	16			
	16			
390.9	-25			
	8			Loose brown silt loam
390.4				
	19			Medium gray silty sand
387.9	-30			
	30			Dense very fine brown sand
	38			
	-35			
	44			
380.4				
	24			
	-40			Medium gray very fine sand
	14			
	11			
372.9	-45			

Elevation	N	Qu-t/sf	w-(%)	Description
372.4	-45			
	50			Very dense fine gray sand
370.4				
	34			
	-50			
	44			Dense fine gray sand
	-55			
	36			
358.4				
	-60			
	25			Medium gray sand with small well graded gravel
	-65			
	15			
	-70			
	13			
343.4				
	-75			
	94			Very dense very fine gray sand
338.4				
	-80			
	40			Dense very fine gray sand
333.4				
	-85			
	59			Very dense fine gray sand with large poorly graded gravel
	-90			

Elevation	N	Qu-t/sf	w-(%)	Description
	-90			
	62			
323.4				
	-95			Medium gray sand with small well graded gravel
	22			
318.4				
	-100			Very dense gray sand with small well graded gravel
	58			

N - Standard Penetration Test - Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140# hammer falling 30"

Qu - Unconfined Compressive Strength - t/sf

w - Water Content - percentage of oven dry weight - %

Type failure
B - Bulge Failure
S - Shear Failure
E - Estimated Value

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

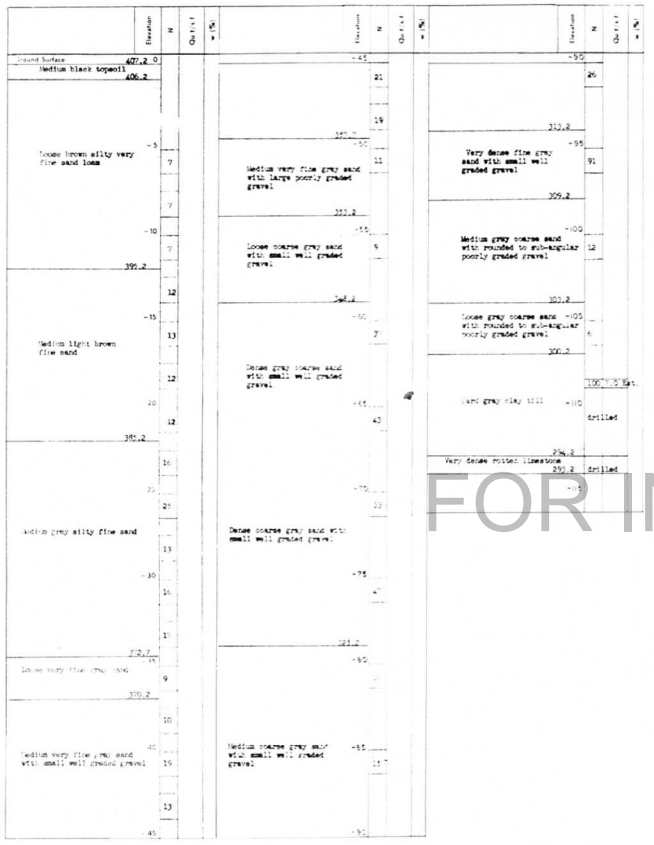
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

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

SHEET 184 OF 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F A I — 70	82-3HVB	ST. CLAIR	289	285
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. H-5



BORING No. H-6

N = Standard Penetration Test — Blows per foot to drive 2.0" Split Spoon Sampler 12" with 140 lb. Hammer Falling 30"

Qu = Unconfined Compressive Strength in T.S.F.

w = Water Content in percentage of oven dry weight in %

Type Failure
B = Bulge Failure
S = Shear Failure
E = Estimated Value

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

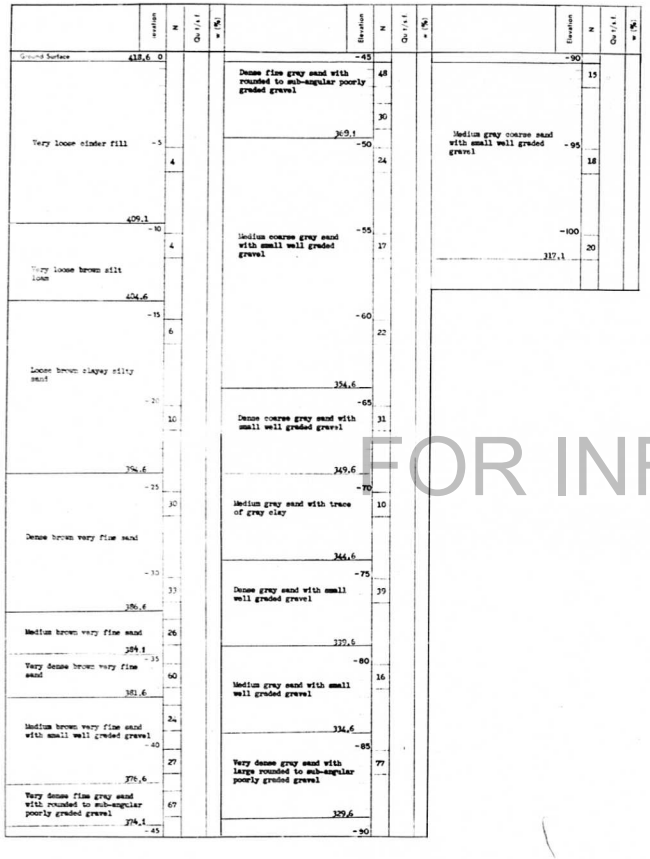
F A I RT. 70 ST. CLAIR CO. SECTION 82-3HVB

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

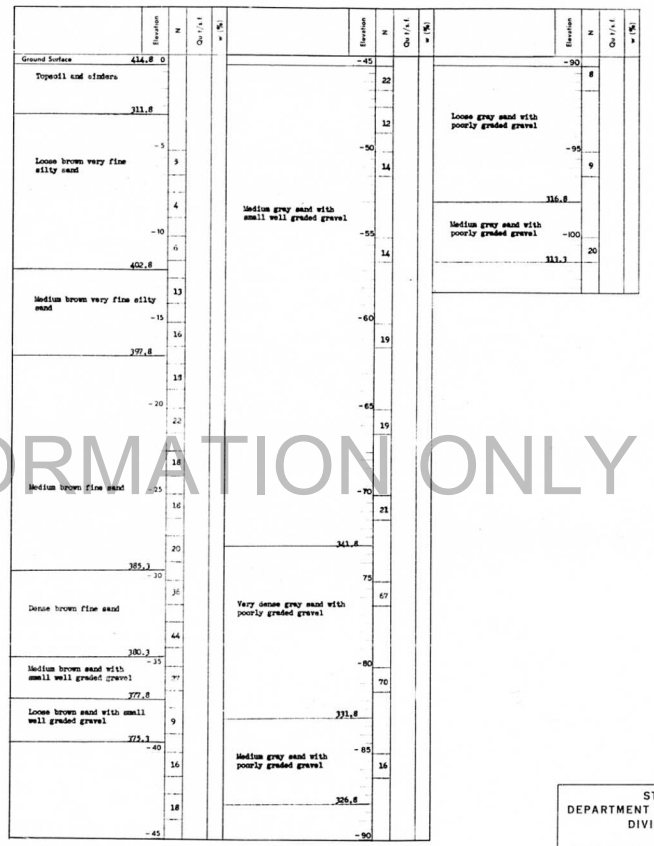
SHEET
185 of 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.–70	82–3HVB	ST. CLAIR	289	221
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. H–7



BORING No. H–8



N – Standard Penetration Test – Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140# hammer falling 30"

Qu – Unconfined Compressive Strength – t/sf

w – Water Content – percentage of oven dry weight – %

Type failure
B – Bulge Failure
S – Shear Failure
E – Estimated Value

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

F.A.I. RT. 70 ST. CLAIR CO. SECTION 82–3HVB

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

SHEET 186 of 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	269	222
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. H-9

Elevation	N	Qu-t/sf	w (%)	Description
Ground Surface 412.1 0				
				Topsoil sand and cinders (Fill)
-5				
	14			
400.3				
	3	.2 S		Very soft slightly silty clay
397.8				
-15	4	1.0	34	Stiff gray silty clay
395.3				
	3	.8 S	36	Medium gray clay
392.8				
-20				
	8			Loose gray clayey sand
390.3				
	10			Medium brown very fine sand
387.8				
-25				
	39			Dense brown very fine sand
385.3				
	17			Medium brown very fine sand
-30				
	11			
380.3				
	37			Dense gray very fine sand
-35				
	40			
	37			
372.8				
-40				
	17			
	20			
-45				
-45				
	16			Medium gray very fine sand
	11			
-50				
	12			
360.3				
-55				
	24			Medium gray sand with small well graded gravel
-60				
	24			
-65				
	11			
-70				
	23			
339.3				
-75				Dense gray sand with large poorly graded gravel
	34			
334.3				
-80				
	15			Medium gray coarse sand with large poorly graded gravel
-85				
	15			
-90				
-90				
	15			Medium gray coarse sand with large poorly graded gravel
-95				
	19			
314.3				
-100				Dense gray sand with large poorly graded gravel
	32			
310.8				

BORING No. H-10

Elevation	N	Qu-t/sf	w (%)	Description
Ground Surface 413.3 0				
				Sand and cinder fill
-5				
408.3				
	2	Est. 0.5		Soft brown mottled clay
-10				
	2			
403.3				
	4	1.0 B		Stiff brown mottled clay
-15				
	5	Lost		
	6	Lost		
398.3				
-20				
	5			Loose gray fine sandy loam
393.3				
	20			Medium brown grading to gray uniform fine sand
-25				
	16			
	16			
-30				
	19			
	17			
-35				
	9			
376.3				
	30			Dense gray well graded sand
-40				
	35			
371.3				
	11			Medium gray fine sand
368.8				
-45				
-45				
	33			Dense gray fine sand and occasional small gravel
366.3				
	69			Very dense gray fine sand
-50				
	116			
360.3				
-55				
	10			Medium gray fine sand
-60				
	13			
-65				
	24			
349.3				
-70				Very dense gray sand with occasional gravel
	72			
340.3				
-75				
	15			Medium gray coarse sand and poorly graded gravel
-80				
	15			
-85				
	13			
-90				
-90				
	21			Medium gray coarse sand and poorly graded gravel
-95				
	16			
-100				
	21			
311.8				

N - Standard Penetration Test - Blows per foot to drive 2 O.D. Split Spoon Sampler 12" with 140# hammer falling 30".

Qu - Unconfined Compressive Strength - t/sf

w - Water Content - percentage of oven dry weight - %

Type failure: B - Bulge Failure, S - Shear Failure, E - Estimated Value

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

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

SHEET 187 OF 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I – 70	82-3HVB	ST. CLAIR	289	223
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. H-i1

	Elevation	N	Qu t/s.f.	w (%)
Ground Surface	412.3			
Sand and cinder fill	409.3			
Loose brown sandy loam	405.3	5		
Medium brown mottled silty clay	402.8	4	0.7 B	
Loose brown silty loam	400.3	6		
Medium brown silty loam	397.8	10		
Loose brown silty loam	395.3	8		
Medium gray clay loam	392.8	6	0.6 Ext	
Medium brown and gray sandy loam with clay lenses	390.3	11		
Medium brown grading to gray fine sand	380.3	17		
		12		
		14		
		21		
Dense gray fine sand	375.3	35		
		32		
Medium gray fine sand	372.8	26		
Dense gray fine sand Occasional gravel	370.3	42		
Medium gray fine sand and occasional gravel	-45	16		
Medium gray fine sand and occasional gravels	-50	23		
		14		
		21		
	-55	11		
Dense gray well graded sand and occasional gravel	349.3	39		
Very dense gray fine sand and occasional gravel	-65	80		
	344			
Medium gray fine sand	339.3	25		
Dense gray fine sand and occasional gravel	-75	36		
	334.2			
Medium gray well graded sand and occasional gravel	-85	16		
		10		
	-90			
Medium gray well graded sand and occasional gravel	-90	21		
		22		
Dense well graded sand and occasional gravel	314.3	35		
	-100			
	310.8			

BORING No. H-i2

	Elevation	N	Qu t/s.f.	w (%)
Ground Surface	414.6			
SAND, CINDER & CLAY FILL	410.6			
DARK BROWN SILTY CLAY	407.6	5		
LOOSE GRAY BROWN SANDY LOAM	402.6	7		
MEDIUM BROWN FINE SAND.	397.6	10		
MEDIUM GRAY FINE SAND.	385.1	12		
		10		
		17		
MEDIUM GRAY FINE SAND.	380.1	13		
		18		
		17		
DENSE GRAY FINE SAND.	372.6	14		
MEDIUM GRAY SANDY LOAM.	370.1	20		
VERY DENSE GRAY FINE SAND.	367.6	62		
DENSE GRAY FINE SAND.	362.6	33		
		50		
MEDIUM GRAY FINE SAND.	357.6	19		
DENSE GRAY FINE SAND	-45	34		
	362.6			
MEDIUM GRAY FINE SAND		11		
	-50	10		
	361.6			
DENSE GRAY FINE SAND & OCCASIONAL GRAVEL	-55	46		
	356.6			
	-60	22		
MEDIUM GRAY FINE SAND & OCCASIONAL GRAVEL.				
	-65	29		
	-70	20		
MEDIUM GRAY FINE SAND & OCCASIONAL GRAVEL.				
	-75	14		
	339.6			
	-80	8		
LOOSE FINE GRAY SAND				
	-85	9		
	326.6			
VERY DENSE GRAY POORLY GRADED GRAVEL	-90			
	-90	55		
VERY DENSE GRAY POORLY GRADED GRAVEL	-95	80		
	7.2			

N – Standard Penetration Test – Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140# hammer falling 30"

Qu – Unconfined Compressive Strength – t/sf

w – Water Content – percentage of oven dry weight – %

Type failure: B – Bulge Failure; S – Shear Failure; E – Estimated Value

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

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

SHEET 188 OF 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HWB	ST. CLAIR	269	224
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

BORING No. S-1

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	418.1 0			
Medium Dense Cinder, Brick & Misc. Fill	416.6	12		
Medium Greyish-Brown Silt Fill	407.1	10	3.398	10
Medium Dense Cinder, Brick with Silty Fill	402.6	20		
Soft Cinder, Coal, Gravel and Brick Silty Clay Fill	397.6	12		
Soft Dark Grey Silty Clay	393.1	3	.408	39
Grey Silty Clay	388.6	5	.870x8	34
To Clayey Silt	383.6	5	.548	36
Trace Sand	378.6	5	.520x8	37
	373.6	3	.618	40
	368.6	15	.748	34
Loose Grey Fine Sand Trace Silt	363.6	6		
	358.6	7		
Medium Dense Grey Fine	353.6	19		
(continued)	347.6	49		

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(continued)	347	34		
Sand Trace Silt	343.1	39		
Dense Fine To Course Sand	365.3	55		30
	354.8	44		35
Very Loose Grey Fine Sand w.th 3" Pocket Decomposed Wood	351.3	65		4
Loose Grey Fine To Coarse Sand, some Small gravel	349.3	10		33
Compact Grey Fine Sand	346.3	70		33
Dense Fine To Medium Sand Some Silt Trace Gravel	343.3	75		31
	340.3	45		40
	338.3	60		41
	333.3	35		40
	328.3	65		76
	323.3	45		45
	318.3	60		22
Boring Stopped by Inspector. WATER LEVEL 16				

BORING No. S-2

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	413.8 0			
Loose Cinder and Brick Fill	411.8			
Stiff Brown Silty Clay Some Brick & Cinder Fill	407.8	5		
		12	1.65S	13
		14		
Medium Silt, Coal Cinder and Miscellaneous Fill	392.8	10	6	
		15	8	
		3		
		20	1	
			2	
Soft Gray Clayey Silt	374.8	25	2	.398 35
		10	3	
		3	3	.458 32
		15	3	.543x8 35
			4	
Very Loose Fine Sand	372.8	40	3	35
Loose Grey Fine to Med Silty Sand	369.8	9		
Dense Gray Sand (continued)		45	51	

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(continued) Some Silt Trace clay	367.8	47		45
Gray Fine To Medium Sand, Trace Silt	340.8	50		47
		55		28
		60		33
		65		36
		70		36
Medium Dense Gray Fine to Course Sand Trace Small Gravel	338.8	75		28
Very Dense Gray Fine to Medium Sand, Trace Silt	333.8	75		92
Boring stopped by Inspector WATER LEVEL 16				

BORING No. S-3

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	413.1 0			
Black and Gray Sand & Cinder Fill	409.1	4		
Soft Yellow Brown Clayey Silt, trace fine sand fill	407.1	5	6	
Black Cinder Fill	403.6	10		
Soft Gray Clayey Silt, Trace Fine Sand	398.6	10	5	1.31S 22
		8		
		15	5	
		4	.64S	25
		20	4	
		4		
Loose grey fine to med sand, tr. silt	387.6	25	7	
Soft Dark Gray Silty Clay Trace Fine Sand	382.6	4	.52S	38
Loose Gray Fine to Medium Sand, some silt, trace clay	381.1	30	13	
Light Gray Fine to Medium Sand Some Silt Trace Clay	373.6	35	7	
		40	6	
Dense Gray (continued)		45	42	

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(continued)	347	67		
Fine to Medium Sand, Trace Silt	343.1	32		
	338.1	32		
	333.1	55		37
	328.1	48		
Dense Gray Fine to Course Sand Some Small to Medium Gravel	323.1	60		32
	318.1	70		34
	313.1	65		33
	308.1	70		20
Boring stopped by Inspector. NOTE: 34" of 24" casing could not be recovered and is abandoned at a depth of 40' WATER LEVEL 28	303.1	75		29

H - STANDARD PENETRATION TEST NUMBER - BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140# WT. FALLING 30"

QU - UNCONFINED COMPRESSIVE STRENGTH
W - WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE
B - BULGE
S - SHEAR
E - ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HWB

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

SHEET 1

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	225
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-4

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU	W %
Ground Surface	412.2	0		
Black		6		
Cinder		3		
Fill		4		
	394.2	15 3		
		3		
Dark Gray Clayey Silt Trace Fine Sand	347.7	20 2	.488	42
		2	.578	29
		25 7	.668	38
Loose To Very Dense Gray Fine (continued)		21		
		30 80		
		44		
		35 18		
		5		
		40 30		
		38		
		45 54		

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS T. S.F.	QU	W %
To Medium Sand		47 40		
		50 57		
		65		
		55 46		
		38		
		60 44		
Boring stopped by Inspector.				

WATER LEVEL 32½'

BORING No. S-5

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU	W %
Ground Surface	413.5	0		
Loose Black Cinder Fill		5		
	403.0	10 3		
Medium Yellow Brown Silty Clay	400.0	7	1.223	21
Medium Brown Silty Clay, Fine Sand Fill	398.5	15 6		
Medium Gray Silty Clay	393.0	20 4	.655	28
		6	.708	30
Loose Gray Clayey Silt Trace Very Fine Sand	388.0	25 4		
Soft Gray Silty Clay Trace Fine Sand	385.0	3	.348	37
Medium Dry Gray Fine to Medium Sand w/thin silt seams	382.5	10 16		
Medium Dry Gray Fine Sand and Silt	378.0	16		
		35 15		
Loose wet gray silt some fine sand, trace clay.	374.5	3	.298	48 37
Medium wet gray sandy silt	373.0	10 16		
Dense wet gray fine to (continued)		44		
		45 38		

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS T. S.F.	QU	W %
Medium Sand		47 38		
		50 43		
	362.5			
Medium to Dense wet Gray Fine to Coarse Sand		47		
		55 32		
		60 19		
	351.5			
Medium To Very Dense wet Gray Fine To Medium Sand		31		
		65 60		
		40		
		70 23		
		71		
Sand	341.0	20		
Boring stopped by Inspector.				

WATER LEVEL 38.0'

BORING No. S-6

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU	W %
Ground Surface	412.6	0		
Dark Brown Cinders, Sand and Miscellaneous Fill	406.1	3 5 6		
Stiff Brown Silty Clay	401.6	10	1.9	7
Stiff Yellow Brown Silty Clay	399.1	16		11
Soft Brown Silty Clay Trace Fine Sand	388.1	15 4 3		21 30 30 36
Medium Moist Brown Fine Sand, Trace Silt	384.6	25 3		17 11
Moist Brown Fine Sand	380.1	10		12 13
Loose to Medium wet Gray Sand Some Silt	371.6	35 40		12 6 26
Medium to Dense Wet Gray (continued)		45		28 44

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS T. S.F.	QU	W %
Fine to Medium Sand		47 14		
		50 33		
		14		
		55 18		
	365.1			
Dense Wet Gray Sand Some Gravel		30		
		60 35		
	350.6			
Dense to Very Dense wet Gray Sand, Trace Silt, and Small Gravel		53		
		65 46		
		52		
		70 33		
		77		
		75 34		
	335.1			
		51		
Boring stopped by Inspector.				

WATER LEVEL 32.5'

N = STANDARD PENETRATION TEST NUMBER - BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140 LBS. FALLING 30"

QU = UNCONFINED COMPRESSIVE STRENGTH
W = WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE
B = BULGE
S = SHEAR
E = ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

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

SHEET 190 OF 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.- 70	82-3HVB	ST. CLAIR	289	226
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-7

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	393.4 0			
Soft Brown Silty Clay	389.4	2		30
Loose Brown Sandy Silt	387.4	6		21
Loose Brown Clayey Silt	381.7 10	4		21
Gray Medium Clayey Silt	381.4	3		26
Loose Brown Silty Sand	379.9	8		29
Medium Moist Gray Sand Trace Silt	370.4	15 21 15 20	30	17
Medium wet brown & Gray Medium to Coarse Sand	361.9	25	30	15
Medium wet Gray Coarse Sand, Trace Small Gravel	354.9	35		17 9 15
Loose wet Gray Sand, Some Pieces of Wood and Small Gravel	349.4	40		8 6
Gray Fine to Coarse		45		19

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(continued)		47		24
Sand, Trace Small Gravel	343.4	50		31
Dense to V. Dense Wet Gray Sand, Trace Gravel	335.9	55		55
Dense to V. Dense wet Gray Fine Sand		65		48 40 49 34 43
Boring stopped by Inspector.	323.4 70	70		

WATER LEVEL 19.5

BORING No. S-8

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	391.2 0			
Loose Brown Silty Clay with Miscellaneous Fill Trace Fine Sand	380.2 10	7 5 8 3		26 29 29
Soft Grey Silty Clay	376.7	2		41
Medium Moist Gray Fine to Medium Sand, Trace Silt	367.7	15 16 20 27		11 22
Medium to Dense Gray Medium to Coarse Sand, Trace Silt (continued)		25 30 45		32 9 11 7 9 8 14 30

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(continued) Small Gravel	347.2	47 50		29 38
Very Dense wet Gray Fine to Medium Sand, Trace Silt	338.2 335.2	55		38 87
Dense Very Wet Gray Fine Sand, Trace Silt	330.2	60		32 27
Dense wet Gray Fine to Medium Sand	327.7			39
Very Dense wet Grey Fine Silty Sand, Trace Clay	323.7	65		71
Boring stopped by Inspector.		70		71

WATER LEVEL 15.1

BORING No. S-9

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	394.7 0			
Stiff Brown Silty Clay & Fill	392.2	8		32
Stiff Brown Silty Clay and Fine Sand	389.7 5	8		15
Loose Brown Silty Sand	387.2	9		
Medium Brown Silty Clay Trace Fine Sand.	384.7 10	8		38
Soft Gray Silty Clay	382.2	5		40
Medium Damp Gray Sand, Trace Silt	377.2 15	15		
Medium to Dense wet Gray Fine Sand	364.7 30	18 27 40 33 34		
Dense to Medium Grey Coarse Sand and Small Gravel	362.2	46		16
Very Dense wet Gray Sand	359.7 35	90		
Loose wet Grey Sand	357.2	8		
Medium wet Gray Fine to Coarse Sand (continued)		40 45		12 13 17

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(continued) & Small Gravel	347.2	47		15
Dense To Very Dense Gray Sand Fine Sand		50 55 65		48 68 83 32 65 41 32 41
Boring stopped by Inspector.	324.7 70			61

WATER LEVEL 19.5

H - STANDARD PENETRATION TEST NUMBER - BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140 LBS WT. FALLING 30"

QU - UNCONFINED COMPRESSIVE STRENGTH
W - WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE
B - BULGE
S - SHEAR
E - ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

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

SHEET 191 of 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. - 70	82-3HVB	ST CLAIR	289	227
FED. ROAD DIV. NO. 4	ILL. NO.	PROJECT		

BORING No. S-13

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
Ground Surface	408.0			
V. Stiff Brown Silty Clay	403.2	18		16
Yellow and brown Silt	402.0	5		11
Med. Yellow & Brown Sand, Trace Silt	399.5	13		
Loose Brown & Yel. Silty Clay	398.5	10		18
Medium Brown Silty Fine Sand	397.0	11		
Medium Brown Fine Sand with Silt Seams	395.4	12		
Medium Gray Silty Clay With Sand Seams	392.5	15		
Medium Brown Fine to Medium Sand	389.5	22		
Medium brown and Gray Fine to Medium Sand	384.0	20	25	
Dense Yellow and brown Fine to Coarse Sand	382.0	25	34	
Dense Yellow and Brown Coarse Sand	377.0	30	39	28
Medium Gray and Brown Medium to Coarse Sand, Silt	372.0	35	22	30
Medium to very Dense Gray Coarse Sand, Trace Silt & Organic Matter	367.0	40	27	69
Medium to very Dense Gray Fine to (continued)	363	45	69	25

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
	363	47		24
Medium Sand, Trace Silt.	358	50/5"		41
Boring stopped by Inspector.				
WATER LEVEL 27.0				

BORING No. S-14

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
Ground Surface	407.9			
Medium to Loose Brown Silty Clay, Some Sand	401.9	16		11
Loose Brown Silty Fine Sand, Trace Clay	395.4	8		18
Loose Brown and Gray Silty Very Fine Sand	390.9	14		10
Gray Fine Sand with Clayey Silt Seams	388.9	6		
Medium Brown Fine Sand	378.9	20	26	
Medium to very Dense Gray Fine to (continued)	363	45	32	

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
	363	47		43
Medium Sand	358	50/5"		51
	352.9	55	120	22
Boring stopped by Inspector.				
WATER LEVEL 29.5				

BORING No. S-15

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
Ground Surface	407.9			
Medium Brown Clayey Silt	401.7	7		17
Loose Brown Silty Fine Sand	397.0	5	6	
Loose Gray Fine Sand, Trace Silt and Small Gravel	391.0	7	5	32
Medium Deep Brown and Gray Fine to Medium Sand, Trace Silt and Small Gravel	376.0	14	21	19
Medium wet Gray Fine to Medium Sand, Some Gravel, trace silt.	355.5	35	43	18
Medium wet Gray Fine to Coarse Sand, Some Clayey Silt	350.5	55	43	20
Medium to Dense wet Gray Fine to Coarse Sand, Trace Small Gravel and Silt.	341.5	65	43	28
Very dense wet gray fine Sand, trace silt.	339.5	100/5"		34
Boring stopped by Inspector.				
WATER LEVEL 29.0				

N - STANDARD PENETRATION TEST NUMBER - BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140# WT. FALLING 30"

QU - UNCONFINED COMPRESSIVE STRENGTH W - WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE B - BULGE S - SHEAR E - ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

H.W. LOCHNER INC. ENGINEERS CHICAGO, ILLINOIS

SHEET 152 OF 248

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I - 70	82-3HVB	ST. CLAIR	289	228
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-16

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	407.0	0		
Loose Brown Silty Clay, Some Sand	404.0	10		23
Medium to Loose Damp Brown Clayey Silt	397.0	10	6	18
Loose Damp Brown Sand Trace Clay and Silt.	392.5	8		
Loose Brown silty sand	391.0	15	5	32
Medium Damp Gray Sand, Some Silt	388.0	8		
Medium to Dense Damp		20	11	
		32		
Brown Sand, Trace Silt	382.0	25	38	
Medium damp to moist fine to coarse brown Sand, trace gravel and silt.	376.0	10	17	18
Medium wet Gray Fine to Coarse Sand, trace gravel and silt.	370.0	35	29	19
Medium to Very Dense Gray Fine Sand, (continued)		40	26	27
		65		
		45	70	

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
(con'd) Silt.	359.847	20		
Medium		50		12
Wet				15
Gray		55		33
Fine				36
to		60		35
Coarse				26
Sand,		65		30
Some				23
Gravel		70		35
Trace				36
Silt.	332.3	75		55
V. Dense wet Gray Fine Sand	329.5			25
Medium wet Gray Fine to Coarse Sand, Trace Small to Medium Gravel & Silt.	324.5	60		27
Boring stopped by Inspector.				51
WATER LEVEL 29.5		85		

BORING No. S-17

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	407.6	0		
Stiff Dark Brown Silty Clay	404.1	8		26
Medium to Loose Damp Brown Silty		5		15
Very Fine Sand, Trace Clay	393.1	10	3	32
Medium		15		18
Damp		21		
Brown		20	12	
Fine		27		
Sand, Trace Silt	375.6	25	21	
Medium Wet Gray Fine Sand, Trace Silt.	371.6	15	20	
Medium to Dense wet Gray Fine to Coarse Sand, Trace Silt.	364.6	40	42	18
				33
Loose to Dense wet Gray Fine Sand, (continued)		45	10	

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
(continued)	47			32
Trace Silt	359.1			
Medium Wet Gray Fine to Coarse Sand, Trace Silt.	356.6	50		22
Medium Wet Gray Fine to Coarse Sand, Trace Gravel & Silt.	351.6	55		16
				15
Medium				35
to		60		67
Very Dense				
Wet				24
Gray				
Fine		65		49
to				
Coarse				
Sand, Trace				25
Silt		70		35
and				
Organic				30
Matter.	331.6	75		25
Very dense wet Gray Fine Sand	330.1			51
Boring stopped by Inspector.				
WATER LEVEL 31.0		80		

BORING No. S-18

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	408.1	0		
Miscellaneous Fill with Brown Silty Clay, some fine sand, concrete and limestone fragments	394.6	9		23
		5		6
				5
		10	6	23
				12
Loose to Medium Damp Brown Fine Sand, trace silt.	382.1	15		7
				9
		20		22
				29
		25		31
Dense damp brown fine to coarse Sand, trace silt.	375.1	30		35
				48
Dense to very dense wet gray fine to medium (continued)		35		68
				38
		40		31
				35
		45		68

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
(continued)	47			
Sand, trace silt.	358.1	69		71
Boring stopped by Inspector.				
WATER LEVEL				

N - STANDARD PENETRATION TEST NUMBER - BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140 LBS WT. FALLING 30"

QU - UNCONFINED COMPRESSIVE STRENGTH
W - WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE
B - BULGE
I - SHEAR
E - ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

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

SHEET 193 OF 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	229
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-19

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	406.7 0			
Loose Brown Silt and very fine Sand	403.2	10		30
Medium Dry brown and gray Silt, trace fine sand	398.2	5		9
Loose damp brown Silt, trace clay, some fine sand.	392.9	10		29
		5		16
Medium Dense Damp yellow and brown fine to medium Sand,		15		37
trace		25	21	
silt.	376.7			21
Medium wet yellow and brown fine to medium sand, trace silt.	375.2	30		16
Dense to loose wet gray fine sand, trace silt.	371.2			30
Loose wet gray fine to coarse sand, trace silt.	369.7	35		10
		7		
Medium to dense wet gray fine to (continued)		40		24
		45		19

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
(continued)		47		
coarse Sand, trace silt		50		14
				34
Dense wet gray fine to medium Sand, trace silt.	358.7	55		38
	348.7	50		30
Medium to dense wet gray fine to coarse sand, trace gravel and silt.		50		24
				20
	341.7	65		42
V. Dense moist gray fine to medium Sand, trace silt.	337.7			54
Very dense wet gray fine sand, trace silt.	335.7	70		40
Dense wet, gray fine Sand	333.5			35
Medium Dense		25		25
wet, gray fine to				35
coarse Sand, trace silt		30		22
and gravel.	324.2			34
Boring stopped by Inspector.				
WATER LEVEL 25.2		45		

BORING No. S-20

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	404.3 0			
Stiff Brown Clayey Silt.	404.8	12	1.448	17
Medium to loose damp brown silty Sand, trace clay	399.8	5	11	
		7		
Very loose dry brown fine Sand, some silt trace clay.	396.6	10	3	
Very loose brown silt.	391.8	2		21
		15	16	32
Medium Brown fine to medium		13		
		20	16	
		22		
Sand, trace silt		25	26	
		16		
		30	17	
and small gravel.	372.3	35	36	
Medium Dense wet gray fine to medium Sand, trace silt and small (continued)		38		
		40	23	
		26		
		45	38	

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
(cont'd) Gravel.	361.347	64		
Very Dense Wet Dark Gray fine Sand, trace silt.	350.5	50		43
	355.8	57		
Boring stopped by Inspector.				
WATER LEVEL 31.5				

BORING No. S-21

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	405.3 0			
Stiff Brown Silty Clay	401.3	17	.285	33 26
Loose yellow & brown Sand and Silt	399.3	5	7	14
Loose Moist Brown Silty Clay	397.3	8		28
Medium Damp yellow and brown silty fine Sand	394.8	10	26	
Brown Silty medium Sand	393.8			
Medium		28		
Damp				
Yellow		15	16	
and			16	
Brown				
Fine to		20	26	
			24	
Medium		25	27	
Sand, trace silt.	375.8	26		
Medium wet gray very fine Sand	372.3	30	17	
			15	
Medium wet gray fine to coarse sand, trace silt and gravel.	369.3	35	22	
Medium wet gray fine to coarse Sand, some gravel, trace silt.	364.3	40	22	
Medium wet gray fine to coarse sand, trace gravel	362.3		19	
Dense wet gray medium to coarse Sand, trace silt.	360.3	45	31	
Medium wet gray medium to (continued)				

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
(continued)		47		
coarse Sand, trace silt.	356.3		27	
Dense wet gray fine to coarse Sand,		50		30
trace silt.			52	
	349.3	55		23
Medium to very dense gray fine to medium Sand, trace silt.			27	
			60.74	
	344.3			
Dense wet gray fine Sand, trace silt.			45	
	340.3	65		47
Boring stopped by Inspector.				
WATER LEVEL 29.0				

N - STANDARD PENETRATION TEST NUMBER - BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140 LBS. WT. FALLING 30"

QU - UNCONFINED COMPRESSIVE STRENGTH

W - WATER CONTENT % OVER DRY WEIGHT

TYPE FAILURE B - BULGE S - SHEAR E - ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

H. W. LOCHNER INC. ENGINEERS CHICAGO, ILLINOIS

SHEET 194 OF 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F A I - 70	82-3HVB	ST CLAIR	289	230
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-22

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	405.7 0			
Stiff				
Brown		10		20
Silty				
Clay	401.2			
Loose brown very fine Sand, some silt.	5	9		
	399.7			
Loose				
Brown		5		
Very Fine				
Sand,		10	9	
Some				
Silt.	393.7			
			19	
Medium				
brown		15	19	
fine				
to			17	
medium		20	25	
Sand,				
			23	
Trace		25		
Silt.				
	371.7		30	
Dense brown fine to coarse Sand, trace gravel & silt.	369.7	30	31	
			26	
Medium				
grey		35	19	
fine to				
medium			23	
Sand,		40	25	
trace				
silt			36	
and				
gravel.		45	23	
	359.7			

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Dense wet gray fine Sand, trace silt.		47		33
	356.2			
Medium wet gray medium Sand, trace silt and gravel.		50		33
	352.7			20
Dense wet gray fine to coarse Sand, some gravel trace silt.		55		41
	349.7			
Very				59
dense				
wet		60		62
gray				48
fine				
Sand,		65		60
trace				
silt.		337.7		67
Dense wet gray fine to coarse Sand, trace small gravel.	335.7	70		43
Boring stopped by Inspector.				
WATER LEVEL 32.0				

BORING No. S-23

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	405.3 0			
Medium brown silty Clay	402.3	5		23
Loose				
Damp		5	6	
brown				30
very fine silty		5		
Sand.	396.3			
Medium		10	20	
Damp				
brown		14		
fine to				
medium		15	20	
Sand,				
trace				
silt.			9	
	386.3			
Medium		20	3	
brown			17	
fine to		25	18	
medium			23	
Sand,				
trace		10	11	
silt.	374.3			
Medium			39	
dense				
wet gray				
fine to		35	24	
medium				
Sand.	368.3			
Medium dense wet gray fine to coarse Sand, trace silt.		40	37	
	361.8			
Medium wet gray fine Sand.	362.3		28	
Medium				
Wet		45	37	
Gray				
(continued)				

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
(continued)		47		20
fine to				
coarse		50		24
Sand,				
trace				29
silt,				
and				
small		55		22
gravel.				
	348.3			44
Dense				
moist				
gray		60		46
fine Sand,				
trace silt.	342.8			54
Boring stopped by inspector.				
WATER LEVEL 29.5		65		

BORING No S-24

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	405.5 0			
Medium brown silty clay	404.0			
Brown clayey silt, trace fine sand.	402.5		11	
Loose				
Brown		5	7	
Very				
Fine				
Sand,				12
some				
silt.		25	12	
	394.5			
Medium			25	
dense		35	24	
brown			18	
fine to				
medium		27	15	
Sand			11	
		25	22	
trace				
silt.			24	
	376.5			
Dense gray fine Sand, trace silt.		15	12	
	374.5			
Medium			24	
to		35	29	
very				
dense		45	24	
gray				
fine to			38	
medium		45	27	
(continued)				

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
(continued)		47		19
Sand,				
little		50		75
gravel				54
trace silt.		55		29
	349.5			
Grey coarse Sand, some clay	347.5			12
		60		32
Dense to				
medium				37
wet		65		45
gray				
fine to				66
coarse		70		27
Sand				
	335.5	75		21
Boring stopped by Inspector.				
WATER LEVEL 29.8				

N – STANDARD PENETRATION TEST NUMBER – BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140# WT. FALLING 30"

QU – UNCONFINED COMPRESSIVE STRENGTH
W – WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE
B – BULGE
S – SHEAR
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STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS
DIVISION OF HIGHWAYS

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

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

SHEET 1954 OF 24

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.I.-70	82-3HVB	ST. CLAIR	289	231
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-25

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	404.9	0		
Medium moist brown Sandy Silty clay		12		26
		5	13	11
	398.9			
Medium moist brown very fine Sand and Silt	395.9			12
Medium damp brown fine to medium Sand, trace silt.	392.9	10	16	
Medium damp brown fine to medium Sand, trace silt.			13	
		15	21	
		4	11	
	383.9			
Medium damp yellow & brown fine to medium Sand, trace silt.	380.9		15	
Medium moist yellow brown fine to coarse Sand, trace silt and gravel.		25	13	40 21
	376.9		23	
Medium wet gray fine to medium Sand, trace silt	370.4	10	16	
Medium wet fine to coarse Sand, trace gravel and silt.	368.4	35	20	
Medium wet gray fine to coarse Sand, trace gravel and silt.	363.9		18	40 29
Very dense moist gray very fine Sand trace silt	362.4			7
Dense wet gray fine to coarse Sand, trace small gravel. (continued)		45		22

IDENTIFICATION (con'd)	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Dense wet gray fine to medium Sand, trace silt with 1" seam black organic silt.	357.9	47		34
	355.1	50		38
Very dense wet gray fine to medium Sand trace silt.	350.9			78
Medium wet grey fine to coarse Sand trace fine gravel and silt	348.9	55		28
Very dense wet gray fine to medium Sand, trace silt.				55
	344.9	60		58
Boring stopped by Inspector.				
WATER LEVEL 29.0				

BORING No. S-26

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	404.9	0		
Stiff brown clayey Silt.	401.9	10		23
Loose damp brown very fine Sand, some silt.	398.9	5	7	
Loose damp brown very fine Sand, some silt.	395.9	6		34
Medium damp brown fine to medium Sand, trace silt.		10	18	
		24		
		15	21	
		21		
		20	17	
		18		
Sand trace silt.		25	18	
	375.9		26	
Medium wet gray fine to coarse Sand, trace gravel and silt.	368.9	30	17	
		35	23	
Medium to dense wet (continued)		40	12	
		27		
		45	35	

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
		47		23
gray fine to coarse Sand, trace gravel and silt.		50		36
				40
		55		29
				23
		60		49
				40
small gravel and silt.		65		90
	338.4			
Medium gray clayey Silt	335.9			12 27
Very dense moist gray fine to med. Sand, trace silt	333.9	70		47
Medium wet gray fine to coarse Sand, trace clayey silt seams.	328.9			29
Medium to very dense wet gray fine to coarse Sand, trace gravel and silt.	321.9	80		28 42 72
Medium wet gray coarse Sand, some gravel, trace silt.	318.9	85		11
Medium wet gray fine to coarse Sand, and small gravel, trace silt.	304.9	95		22 27 38 94 62 23 32
Boring stopped by Inspector.				
WATER LEVEL 27.3				

BORING No. S-27

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	404.6	0		
Stiff Brown Clayey Silt trace fine Sand.	401.1	9		26
Loose to medium brown fine Sand, and Silt.	396.1	5	6	
		19		
Medium brown fine to medium Sand, trace silt and small gravel.		10	17	
		17		
		15	16	
		10		
		20	10	
		16		
		25	15	
	370.6		31	
Medium to very dense wet gray fine to medium Sand, trace small to medium gravel	368.6	30	27	
		40	21	
		45	25	
(continued)				

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
		47		
and		50	40	
			38	
silt		55	70	
	347.1		27	
Boring stopped by inspector.				
WATER LEVEL 29.0			60	

N - STANDARD PENETRATION TEST NUMBER - BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140# WT. FALLING 30"

QU - UNCONFINED COMPRESSIVE STRENGTH

W - WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE
B - BULGE
S - SHEAR
E - ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

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

SHEET 196 OF 241

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.I - 70	82-3HVB	ST. CLAIR	289	232
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-31

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT.	Qu TSF	W %
Ground Surface	404.5 0			
Medium damp brown very fine Sand, some silt.	399.5 5	10		13
Loose to				
medium		12		
damp	392.5 12	9		
brown		8		10
fine		7		
Sand,	384.5 20			34
trace		15		
silt.	378.5 26	19		
Medium		10		10
to				
dense		19		
wet		35		34
gray				
fine to				28
coarse				
Sand,		40		39
trace				31
silt				
and	345.5 59	45		30
(continued)				

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT.	Qu TSF	W %
(continued)		47		20
small				
gravel	332.5 72	50		46
Dense wet gray fine Sand, trace silt.	329.5 75	43		33
Dense wet gray fine to coarse Sand, some small to large gravel.	312.5 92	41		44
Dense		40		
wet		55		36
gray				24
fine to		70		33
medium				31
Sand,				
trace		75		41
silt.	326.2			14
Boring stopped by inspector.		82		
WATER LEVEL 29.0				

BORING No. S-32

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT.	Qu TSF	W %
Ground Surface	404.2 0			
Loose moist brown silty CLAY	402.2 2	6		
Loose damp brown silty very fine Sand	398.2 6	5	10	21
Loose to medium damp brown very fine Sand, some silt.	385.2 19	10	15	
		15	9	
			9	
Medium brown fine to medium Sand, trace silt.	375.2 29	20	24	
		25	20	
			16	
			19	
Medium wet gray fine to coarse Sand, trace silt.	368.2 36	10	20	
			16	
		35	22	
Medium wet gray fine to coarse Sand, trace Lignite	365.2 39		22	
Gray fine to coarse Sand, trace small gravel & silt.	363.2 41	40	28	
Very dense wet gray fine + medium Sand, trace silt.	361.2 43		63	
Medium to dense wet gray (continued)		45	18	

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT.	Qu TSF	W %
(continued)		47		23
fine to coarse Sand, trace silt.	353.2 51	50		39
Gray fine Sand	351.2 53			
Medium to Dense wet gray fine to coarse Sand, trace small gravel and silt.	346.2 58	55		36
Very dense wet gray fine Sand, trace silt.	344.2 60			17
				37
				63
Boring stopped by Inspector.				
WATER LEVEL 27.5				

BORING No. S-33

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT.	Qu TSF	W %
Ground Surface	404.6 0			
Black Topsoil	403.6 1			
Medium brown silty CLAY	402.1 3	6	1.28	24
Loose		5		
brown				
very		9		
fine		10		
Sand,		10		
some		15		12
silt.	387.6 17			
Medium moist brown silty Sand, with soft clay seams	382.7 22	8		33
Medium damp yellow & brown fine to med. Sand	381.1 24	12		21
Medium yellow & brown fine Sand, trace silt.	379.6 25	11		20
white coarse sand with small gravel	369.6 35	10		27
Medium		10		21
wet				26
fine to		15		20
coarse				26
Sand,		40		22
trace				
small				30
gravel		45		22
(continued)				

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT.	Qu TSF	W %
(continued)		47		16
and silt.	349.6 55	50		44
Dense to very dense wet gray fine to coarse Sand, trace silt and small gravel		55		34
				43
				58
	344.6 60			111
Boring stopped by Inspector.				
WATER LEVEL 27.3				

N = STANDARD PENETRATION TEST NUMBER = BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140# WT. FALLING 30"

Qu = UNCONFINED COMPRESSIVE STRENGTH

W = WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE B = BULGE S = SHEAR E = ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

H.W. LOCHNER INC. ENGINEERS CHICAGO, ILLINOIS

SHEET 19 of 24

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	233
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-34

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	404.6 0			
Stiff brown silty clay	400.6	14	1.55	15
Loose damp brown silt	399.1	5		9
Medium brown sandy Silt, trace clay	395.6	11		
Loose to medium damp silty very fine brown Sand.	388.6	10 / 15		7 / 11
Silty Clay with fine sand.	385.6	9	1.18	33
Very dense to medium damp brown		20 / 25		70 / 26
very fine sand.	378.6			27
Loose brown & gray medium to coarse Sand, trace grawel and silt.	371.0	10		7
Medium to dense wet gray fine to coarse Sand, truce small gravel and silt.	369.1	15		36
Dense wet grey fine to medium Sand, trace silt.	365.6			32
Medium wet gray coarse Sand, trace gravel.	363.6	40		21
Medium wet gray fine to medium sand, trace silt & sml. gravel.	361.6			17
Medium wet gray coarse Sand, trace small gravel.	358.6	45		19

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
	47			24
Medium to dense gray fine to coarse Sand,		50		45 / 38
trace silt.	332.6	65		99
Boring stopped by Inspector.				
WATER LEVEL 29.0				

BORING No. S-35

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	404.5 0			
Topsoil	404.0			
Medium damp brown Silt, trace clay some very fine sand.	398.5	16 / 5	2.18	23 / 10
Loose damp yellow & brown very fine Sand, trace silt.	388.5	10 / 15		3 / 7 / 4 / 8
Medium moist brown fine Sand, trace silt.	385.5	15		26
Medium moist brown fine sand trace silt.	378.5	20 / 25		15 / 34 / 22
Medium dense gray medium Sand, trace silt.	373.5	30		40 / 15
Medium dense wet gray fine to coarse Sand, trace small gravel and silt.	366.5	35		21 / 37 / 31
Dense wet gray fine Sand, trace silt.	363.5	40		34
Medium wet gray coarse Sand, trace small gravel	358.5	45		17 / 18
(continued)				

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
	47			30
(continued) and silt.	356.0			
Medium wet gray fine to coarse Sand, and small gravel, trace silt.	354.0	50		29
medium to very dense wet gray fine Sand, trace small gravel and organic matter.	347.0	55		28 / 42 / 55
Boring stopped by inspector.				
WATER LEVEL 28.5				

BORING No. S-36

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	405.0 0			
Black topsoil	404.0			
stiff brown clayey Silt.	401.5	10	2.14	23
Medium dry yellow and brown silty fine Sand	398.5	5		11
Loose yellow & brown fine Sand	388.5	10 / 15		8 / 10 / 5 / 10
Dense damp yellow and brown Sand, trace silt.	385.0	20		32
Medium yellow & brown fine Sand, trace silt.	378.0	25		8 / 17 / 12
Med. moist br. fine to co. Sand & sml. gravel, tr. Silt, 5" seam chcr. red wood & debris.	376.5	30		18 / 32
Medium wet fine to coarse gray Sand, trace small gravel and silt.	362.0	35 / 40		22 / 29 / 17 / 17 / 21
Dense wet grey fine Sand, trace silt.	359.0	45		33

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
	47			16
Medium to dense gray fine to coarse Sand, trace small gravel and silt.	344.0	50 / 55 / 60		12 / 30 / 29 / 33 / 32
Very dense gray fine silty		65		121 / 80 / 62
Sand	332.5	70 / 72		14 / 60
Boring stopped by Inspector.				
WATER LEVEL 29.0				

H - STANDARD PENETRATION TEST NUMBER - BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140# WT. FALLING 30"

QU - UNCONFINED COMPRESSIVE STRENGTH
W - WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE
B - BULGE
S - SHEAR
E - ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

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

SHEET 198 of 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. – 70	82-3HVB	ST. CLAIR	289	234
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-37

IDENTIFICATION	ELEV. / DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	405.0 / 0			
Dark brown clayey silt.	403.0			
Loose damp brown silty very fine Sand.		4		23
	401.0			
Medium loose yellow and brown fine Sand, trace silt.	5	12		12
		9		
	10	15		
		8		
	392.0			
Loose damp brown fine Sand, trace silt.	15	10		
	389.8			
Medium damp gray & brown silty fine Sand, and organic matter.		15		
	20	17		
	383.3			
M. f. damp gr & brn. silty v.f. Sand	382.2	12		
Medium gray and brown fine to medium Sand, trace silt.	25	15		
		23		
	377.2			
Medium wet gray fine to coarse Sand, trace silt.	30	17		
		15		
	372.0			
Medium wet gray fine Sand, trace silt.	35	24		
		31		
	365.0 / 40	13		
Medium wet gray fine to coarse Sand (continued)		23		
	45	18		
(continued)	47	22		
trace small gravel and silt.	50	44		
	354.5			
Dense wet gray fine to medium Sand, trace silt.		65		
	55	48		
		42		
	347.0			
Medium wet gray very fine Sand, trace silt.	60	28		
		25		
	65	60		
		53		
	335.0 / 70	53		
Boring stopped by Inspector.				
WATER LEVEL 28.5				

BORING No. S-38

IDENTIFICATION	ELEV. / DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	419.40			
Black cinders, concrete and miscellaneous Fill, trace sand.		7		
	5	11		
		12		
	10	9		
		8		
	15	9		
		10		
	400.4			
Loose to medium yellow and brown very fine Sand, and Silt.	20	5		
		7		
	25	11		
		14		
	30	5		
	388.4			
Loose to dense gray very fine Sand, trace silt.		5		
	35	7		
		49		
	40	48		
	378.4			
Dense to very dense wet gray fine to medium Sand, trace silt.		39		
	45	51		
	373.9			
Medium (continued)	47	6		
to dense wet gray fine to coarse Sand, trace small gravel and silt.	50	27		
		38		
	55	47		
		41		
	60	37		
	358.4			
Medium wet gray coarse Sand, some clayey silt with small gravel.		16		
	355.9			
Medium to dense wet gray fine to coarse Sand, trace silt.	65	19		
		32		
	70	41		
	348.4			
Dense wet gray fine silty Sand.		48		
	346.4			
Very dense wet gray fine to medium Sand, trace silt.	75	63		
	343.4			
Very dense wet gray fine silty Sand.		65		
	339.4 / 80	49		
Boring stopped by Inspector.				
WATER LEVEL 41.0				

BORING No. S-39

IDENTIFICATION	ELEV. / DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	419.1 / 0			
Cinders, bricks, concrete, silt & miscellaneous fill.		5		
	5	7		
		14		
	409.6			
Loose to medium yellow brown clayey Silt, trace fine sand.	10	6		23
		12		19
	404.4			
Brown silty Clay, trace fine sand.	15	3		27
		2		38
	20	5	1.09b&S	27
	397.6			
Medium damp yellow and brown very fine Sand, trace silt.		24		
	25	16		
		16		
	30	18		
		23		
	384.8			
Dense yellow and brown fine Sand.	35	44		
	382.6			
Dense yellow & brown fine Sand, trace silt with organic matter seams.		41		
	40	32		
	377.3			
Medium wet brown coarse Sand, trace small gravel & silt.		26		
	374.1 / 45	32		
Medium (continued)	47	20		
to dense wet gray fine to coarse Sand, trace small gravel and silt.	50	28		
		28		
	55	34		
		30		
	60	29		
		26		
	65	22		
		29		
	70	46		
		37		
	344.1 / 75	44		
Boring stopped by Inspector.				
WATER LEVEL 41.8				

N – STANDARD PENETRATION TEST NUMBER – BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140# WT. FALLING 30"

QU – UNCONFINED COMPRESSIVE STRENGTH
W – WATER CONTENT % (DRY WEIGHT)

TYPE FAILURE
B – BULGE
S – SHEAR
E – ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

H. W. LOCHNER INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 199 of 241

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F A I – 70	82-3HVB	ST CLAIR	289	288
FED ROAD DIV NO 4	ILLINOIS	PROJECT		

BORING No. S-40

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	419.5 0			
Cinders,		7		
Bricks,	5	14		
Stone,		14		
silt and				
miscellaneous	10	10		
Fill.	406.5	9		18
Medium moist yellow and brown fine silty, clayey Sand	401.5	15 13		24
Brown silty clay, trace fine		20 4	.50+	37
Sand	396.0	7		30
Dense moist yellow and brown fine Sand, trace silt.	390.5	25 31		9
Medium to dense moist yellow & brown fine Sand, trace silt, Organic matter noted.	378.5	30 14		38
		40 21		
Medium wet yellow & brown fine to coarse Sand, truce small gravel and silt.	374.7			30
Dense wet gray (continued)		45 14		

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(continued) fine to medium Sand, trace silt & gravel.	369.5	47 34 50 35		
Medium to dense wet gray fine to coarse Sand, some small gravel, trace silt.	361.0			23
		55 21		32
Dense wet gray fine Sand, trace silt.	359.7	60		32
Gray coarse sand w/sml.gravel,tr.silt	358.5			
Dense wet gray fine Sand, trace silt.	356.0			50
Medium to dense wet grey fine to coarse Sand, some small gravel, trace silt.	342.0	65		23
		75		34 41
				50
Boring stopped by Inspector.				
WATER LEVEL 41.0				

BORING No. S-41

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	415.4 0			
Black cinders, clayey silt, & miscellaneous Fill.	409.4	5		6
medium loose brown fine Sand, clayey silt	401.4	10		9
Medium damp		15		19
yellow and brown fine Sand,		20		27
trace silt.	379.4	30		30
Medium moist gray fine Sand,	378.4			28
Medium wet gray fine to medium Sand, (continued)		40 45		24 30

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(continued)		47		29
trace small gravel and silt.	361.9	50		31
Medium wet gray fine to coarse Sand, some small gravel, trace silt.	350.4	55		17 19 61
Very dense wet gray fine Sand, trace silt.	350.4	65		61
Boring stopped by Inspector.				
WATER LEVEL 38.5				

BORING No. S-42

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	419.0 0			
Cinders,		2		
Silt.				
Gypsum, limestone, silt, and miscellaneous Fill.	408.0	5 13		7
Loose moist yellow and brown very fine Sand, some silt.	405.0	10		16
Brown silty clay	398.0	22 4 3 10		42 37 18
Loose to medium yellow and brown fine silty Sand.	393.0	7		22
Loose moist gray fine silty Sand, trace clay	391.5	8		
Medium to dense damp yellow and brown fine silty Sand.	376.0	25 35		18 24
Dense moist brown fine to coarse moist Sand, trace silt.	376.0	42		30 38
Dense wet gray fine to (continued)		45		48

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(continued) Medium Sand, trace small gravel and silt.	365.5	47 63 50 33 25		
Dense wet gray fine to coarse Sand, some small gravel, trace silt.	351.5	55		32 21 16 14 24 33
Boring stopped by Inspector.				
WATER LEVEL 41.0				

N = STANDARD PENETRATION TEST NUMBER = BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140# WT. FALLING 30"

Qu = UNCONFINED COMPRESSIVE STRENGTH

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TYPE FAILURE B = BULGE S = SHEAR E = ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

H W LOCHNER INC ENGINEERS CHICAGO ILL.

SHEET 200x24

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.– 70	82-3HVB	ST. CLAIR	289	236
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-43

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	Qu T.S.F.	W %
Ground Surface	424.2 0			
Black cinders, clayey silty, crushed stone & cinders	421.4 3			
Very loose black cinders, silt, brick fragments, & Fill.	404.4 20	2		
Medium yellow & brown clay	401.4 23	2	1.1	22
Medium damp yellow and brown very fine Sand, some silt	396.7 27	4	1.1	37
Medium wet gray fine Sand, some silt	392.2 32	25		35
Medium wet gray fine Sand, some silt	387.2 37	24		
Medium wet gray fine Sand, some silt	382.2 42	24		
Medium wet gray fine Sand, some silt	377.2 47	24		
Medium wet gray fine Sand, some silt	372.2 52	24		
Medium wet gray fine Sand, some silt	367.2 57	24		
Medium wet gray fine Sand, some silt	362.2 62	24		
Medium wet gray fine Sand, some silt	357.2 67	24		
Medium wet gray fine Sand, some silt	352.2 72	24		
Medium wet gray fine Sand, some silt	347.2 77	24		
Medium wet gray fine Sand, some silt	342.2 82	24		
Medium wet gray fine Sand, some silt	337.2 87	24		
Medium wet gray fine Sand, some silt	332.2 92	24		
Medium wet gray fine Sand, some silt	327.2 97	24		
Medium wet gray fine Sand, some silt	322.2 102	24		
Medium wet gray fine Sand, some silt	317.2 107	24		
Medium wet gray fine Sand, some silt	312.2 112	24		
Medium wet gray fine Sand, some silt	307.2 117	24		
Medium wet gray fine Sand, some silt	302.2 122	24		
Medium wet gray fine Sand, some silt	297.2 127	24		
Medium wet gray fine Sand, some silt	292.2 132	24		
Medium wet gray fine Sand, some silt	287.2 137	24		
Medium wet gray fine Sand, some silt	282.2 142	24		
Medium wet gray fine Sand, some silt	277.2 147	24		
Medium wet gray fine Sand, some silt	272.2 152	24		
Medium wet gray fine Sand, some silt	267.2 157	24		
Medium wet gray fine Sand, some silt	262.2 162	24		
Medium wet gray fine Sand, some silt	257.2 167	24		
Medium wet gray fine Sand, some silt	252.2 172	24		
Medium wet gray fine Sand, some silt	247.2 177	24		
Medium wet gray fine Sand, some silt	242.2 182	24		
Medium wet gray fine Sand, some silt	237.2 187	24		
Medium wet gray fine Sand, some silt	232.2 192	24		
Medium wet gray fine Sand, some silt	227.2 197	24		
Medium wet gray fine Sand, some silt	222.2 202	24		
Medium wet gray fine Sand, some silt	217.2 207	24		
Medium wet gray fine Sand, some silt	212.2 212	24		
Medium wet gray fine Sand, some silt	207.2 217	24		
Medium wet gray fine Sand, some silt	202.2 222	24		
Medium wet gray fine Sand, some silt	197.2 227	24		
Medium wet gray fine Sand, some silt	192.2 232	24		
Medium wet gray fine Sand, some silt	187.2 237	24		
Medium wet gray fine Sand, some silt	182.2 242	24		
Medium wet gray fine Sand, some silt	177.2 247	24		
Medium wet gray fine Sand, some silt	172.2 252	24		
Medium wet gray fine Sand, some silt	167.2 257	24		
Medium wet gray fine Sand, some silt	162.2 262	24		
Medium wet gray fine Sand, some silt	157.2 267	24		
Medium wet gray fine Sand, some silt	152.2 272	24		
Medium wet gray fine Sand, some silt	147.2 277	24		
Medium wet gray fine Sand, some silt	142.2 282	24		
Medium wet gray fine Sand, some silt	137.2 287	24		
Medium wet gray fine Sand, some silt	132.2 292	24		
Medium wet gray fine Sand, some silt	127.2 297	24		
Medium wet gray fine Sand, some silt	122.2 302	24		
Medium wet gray fine Sand, some silt	117.2 307	24		
Medium wet gray fine Sand, some silt	112.2 312	24		
Medium wet gray fine Sand, some silt	107.2 317	24		
Medium wet gray fine Sand, some silt	102.2 322	24		
Medium wet gray fine Sand, some silt	97.2 327	24		
Medium wet gray fine Sand, some silt	92.2 332	24		
Medium wet gray fine Sand, some silt	87.2 337	24		
Medium wet gray fine Sand, some silt	82.2 342	24		
Medium wet gray fine Sand, some silt	77.2 347	24		
Medium wet gray fine Sand, some silt	72.2 352	24		
Medium wet gray fine Sand, some silt	67.2 357	24		
Medium wet gray fine Sand, some silt	62.2 362	24		
Medium wet gray fine Sand, some silt	57.2 367	24		
Medium wet gray fine Sand, some silt	52.2 372	24		
Medium wet gray fine Sand, some silt	47.2 377	24		
Medium wet gray fine Sand, some silt	42.2 382	24		
Medium wet gray fine Sand, some silt	37.2 387	24		
Medium wet gray fine Sand, some silt	32.2 392	24		
Medium wet gray fine Sand, some silt	27.2 397	24		
Medium wet gray fine Sand, some silt	22.2 402	24		
Medium wet gray fine Sand, some silt	17.2 407	24		
Medium wet gray fine Sand, some silt	12.2 412	24		
Medium wet gray fine Sand, some silt	7.2 417	24		
Medium wet gray fine Sand, some silt	2.2 422	24		
(continued)	47	30		
wet gray fine to coarse Sand, trace small gravel and silt.	356.7 55	27		42
Boring stopped by Inspector.		26		
WATER LEVEL 38.1				

BORING No. S-44

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	Qu T.S.F.	W %
Ground Surface	417.8 0			
Black cinders, clayey silty, ashy cinders & clinkers	415.8 2			
Very loose black cinders, silt, brick fragments, & Fill.	408.8 9	9		
Medium yellow & brown clay	400.3 17	12		
Medium damp yellow and brown very fine Sand, some silt	395.8 22	5	.9	23
Medium wet gray fine Sand, some silt	392.8 25	24		
Medium wet gray fine Sand, some silt	387.8 30	20		
Medium wet gray fine Sand, some silt	382.8 35	28		
Medium wet gray fine Sand, some silt	377.8 40	22		
Medium wet gray fine Sand, some silt	372.8 45	25		
Medium wet gray fine Sand, some silt	367.8 50	27		
Medium wet gray fine Sand, some silt	362.8 55	38		
(continued) coarse Sand, and small gravel, trace silt.	361.8 47	16		
Dense gray fine Sand, trace silt.	352.8 56	29		
V. dense wet gray fine to medium Sand, trace silt.	349.3 60	32		
Medium to dense wet gray fine to coarse Sand, trace gravel & silt.	342.8 67	25		
Dense clayey Sand, tr. silt, wet, matter noted.	342.8 67	63		
Boring stopped by Inspector.	342.875 78	68		
WATER LEVEL 41.0	41.0	68		

BORING No. S-45

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	Qu T.S.F.	W %
Ground Surface	417.4 0			
Very loose black cinders, silt, brick fragments, & Fill.	404.4 13	2		
Loose moist brown silty Clay	401.9 15	5	.9	30
Medium damp yellow and brown very fine Sand, some silt	372.4 45	10		
Brown fine to medium Sand,	374.9 43	11		
Medium dense wet gray fine to coarse Sand, some small gravel	352.9 65	24		
Medium wet gray fine to coarse Sand, some small gravel	352.9 65	18		
Medium dense wet gray fine to coarse Sand, some small gravel	337.9 80	35		
Medium dense wet gray fine to coarse Sand, some small gravel	337.9 80	50		26
Medium dense wet gray fine to coarse Sand, some small gravel	337.9 80	39		
Medium dense wet gray fine to coarse Sand, some small gravel	337.9 80	55		34
(continued) Sand, trace silt.	356.4 60	56		34
Medium wet gray fine to coarse Sand, some small gravel	352.9 65	43		21
Medium wet gray fine to coarse Sand, some small gravel	352.9 65	30		
Medium wet gray fine to coarse Sand, some small gravel	352.9 65	58		
Medium wet gray fine to coarse Sand, some small gravel	352.9 65	46		
Medium wet gray fine to coarse Sand, some small gravel	352.9 65	14		
Medium wet gray fine to coarse Sand, some small gravel	352.9 65	43		
Medium wet gray fine to coarse Sand, some small gravel	352.9 65	29		
Gray clayey Silt, some sand	337.9 80	8		30
Medium wet gray fine to coarse Sand, some small gravel	335.4 83	29		
Medium wet gray fine to coarse Sand, some small gravel	335.4 83	26		
Medium wet gray fine to coarse Sand, some small gravel	335.4 83	38		
Medium wet gray fine to coarse Sand, some small gravel	335.4 83	64		
Dense to very dense wet gray fine to coarse Sand, some small gravel	328.4 90	55		
Medium wet gray fine to coarse Sand, some small gravel	328.4 90	45		
Medium wet gray fine to coarse Sand, some small gravel	328.4 90	55		
Boring stopped by Inspector.	317.4 100	114		
WATER LEVEL 42.0				

% – STANDARD PENETRATION TEST NUMBER – BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140 LBS. WT. FALLING 30"

Qu – UNCONFINED COMPRESSIVE STRENGTH

W – WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE B – BULGE S – SHEAR E – ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

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

SHEET 201 OF 241

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.I – 70	82-3HVB	ST CLAIR	289	237
FED ROAD DIV NO 4	ILLINOIS	PROJECT		

BORING No. S–46

IDENTIFICATION	ELEV. DEPTH	N BLOWS T S.F.	QU	W %
Ground Surface	417.3 0			
Loose to very loose black cinders, red brick, Coal, and Sand	10	2		
Fill	406.3			
Very loose wet brown Silt, some very fine Sand.	404.3	2		
Loose to medium damp yellow and brown very fine Sand, trace silt.	391.3	6 11 10 6		30
Loose moist yellow & brown Silt, some very fine Sand.	389.3	8		
Medium damp yellow and brown fine Sand, trace silt.	378.3	20 16 16		
Loose damp gray fine to medium Sand, trace silt.	376.3	9		
Medium wet gray fine to coarse Sand, trace small gravel and silt.	374.3	11		
Medium wet gray fine to medium Sand, trace small gravel and (continued)		23		

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS T S.F.	QU	W %
silt	369.3	29		
Dense wet gray fine Sand, trace silt	366.3	37		
Medium wet gray fine to coarse Sand, some small gravel, trace silt.	354.3	38 33 19 25		
Medium wet gray fine to coarse Sand, trace small gravel.	351.3	25 18		
Dense wet gray fine to coarse Sand trace small gravel.	342.3	29 48 87 34		
Boring stopped by inspector.				
WATER LEVEL 41.0				

BORING No. S–47

IDENTIFICATION	ELEV. DEPTH	N BLOWS T S.F.	QU	W %
Ground Surface	417.2 0			
Charcoal, Black Cinders, & Miscellaneous Fill	411.7	5 10		
Loose damp yellow & brown fine Sand, trace silt.	408.2	7		
Medium damp yellow & brown fine Sand, some silt.	400.2	12 4 12 8		29 29
Medium dense to dense yellow and brown fine Sand, trace silt.	376.2	10 16 15 16 17 25 15 41 21		
Medium dense wet (continued)		23		

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS T S.F.	QU	W %
gray fine to coarse Sand, trace small gravel and silt.	373.7	47 47 44 30 19 28 19		
Boring stopped by inspector.				
WATER LEVEL 41.0				

BORING No. S–48

IDENTIFICATION	ELEV. DEPTH	N BLOWS T S.F.	QU	W %
Ground Surface	417.2 0			
Black, Cinder, Brick, Coal, and Miscellaneous Fill.	409.2	5 5 3		
Medium damp red and brown silty Clay	406.7	10 17		26
Very loose wet yellow & brown Silt, some very fine sand.	403.2	3		
Loose to medium damp yellow & brown very fine Sand, and silt.	391.2	6 8 9 14 16		
Loose wet Silt, trace clay.	389.2	9		
Medium damp yellow and brown fine Sand, trace silt.	381.2	19 14		
Very dense damp gray fine Sand, trace silt.	379.2	95 34		
Dense, damp gray fine to coarse Sand, trace small gravel and silt.	376.2	49		
Medium wet gray fine Sand, trace silt.	374.2	22		
Dense wet gray fine to coarse Sand, trace small gravel and silt.	371.2	40		

IDENTIFICATION	ELEV. DEPTH	N BLOWS T S.F.	QU	W %
Dense wet gray coarse Sand small gravel	368.2	31		
Dense wet gray fine Sand, trace silt.	365.2	31 34		
Dense wet gray md. to coarse sand, tr. sml. gvl. &org. mat.	363.7	32		
wet gray fine to coarse Sand, trace small gravel and silt.	352.2	23 31 22		
Boring stopped by Inspector.				
WATER LEVEL 41.0				

N = STANDARD PENETRATION TEST NUMBER = BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140 LBS. WT. FALLING 30"

QU = UNCONFINED COMPRESSIVE STRENGTH

W = WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE B = BULGE L = SHEAR E = ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

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

SHEET 202 OF 24

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. - 70	82-3HVB	ST. CLAIR	289	238
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-49

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	407.5	0		
Topsoil	405.5			
Loose dry yellow & brown very fine Sand, trace silt	396.0	5 6 10 7		
Dk. gray & brn. clayey silt, tr. f. sand.	395.0	7		35
Medium damp yellow and brown fine Sand, trace silt	390.5	15 11		
Loose damp yel. & brn. v.f. silty Sand.	389.5	7		
Medium deap yellow and brown very fine (continued)		20 15		
Sand, trace silt.	383.5	25 27		
Loose moist dark gray very fine Sand.	379.5	6		
		30 32		
Medium		7		
dense		35 17		
wet		16		
gray		40 25		
fine		39		
to		45 29		
(continued)				

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
(continued)	47	63		
coarse	50	79		
Sand.	356.5			
Wet gray fine to coarse Sand, trace small gravel.		21		
	55	36		
	350.5			
Dense, wet gray fine to medium Sand, trace gravel and silt.		57		
	60	43		
		33		
Boring stopped by Inspector.	342.5	65		40
WATER LEVEL 30.0				

BORING No. S-50

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	405.6	0		
Topsoil	404.1			
Brown clayey Silt	401.6	13		24
Medium damp yellow and brown very fine Sand, trace silt.		5		
		10		
	392.9	13		
Gray silty sand.	392.4	11		
Medium damp yellow & brown fine sand.		15		
	387.6	20		
Medium damp yellow and brown very fine silty Sand.		20		
	382.1	21		
Dense damp brown fine Sand.		25		35
	378.3	14		
Medium wet gray very fine Sand, trace silt.	376.6			
		30		16
Medium				
to				16
dense				
wet		35		22
gray				
fine to				26
coarse		40		32
Sand.	364.6			
Dense wet gray fine Sand, trace silt.		45		49
	359.1			

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Gray Dense coarse Sand	47	44		
	357.6			
Very dense gray very fine Sand.	50	104		
		38		
	352.6			
Dense wet gray Medium Sand.	55	32		
	349.6			
Medium Very wet gray very fine Sand		16		
	347.6			
Medium wet gray coarse Sand.	345.6	60		26
Boring stopped by Inspector.				
WATER LEVEL 27.3				

BORING No. S-51

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	407.0	0		
Loose brown silty clay little fine sand.	404.0	9		27
Loose to medium brown fine Sand, trace silt.	391.9	5 7 12 8 15 13		6
Medium moist gray silty v.f. Sand.	390.5			
Medium damp yellow & brown fine Sand,		15 20 23		
trace silt.	381.0	25 20		
Medium damp gray fine to Sand.	376.0	30 22		
Medium wet gray fine to coarse Sand.	371.0	35 11 10		
Medium to dense wet gray fine to coarse Sand, (continued)		40 18 40 36 45 31		

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
(continued)	47	23		
trace silt.	50	62		
	356.0			
Dense wet gray fine Sand.	354.0	45		
Dense wet gray fine to coarse Sand, trace black organic matter.	351.0	55	33	
Medium wet gray fine Sand	346.0	60	26 24	
dense wet gray fine to medium Sand, trace small gravel.	339.5	65	83 33	
Boring stopped by Inspector.			48	
WATER LEVEL 31.0				

N - STANDARD PENETRATION TEST NUMBER - BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140# WT. FALLING 30"

QU - UNCONFINED COMPRESSIVE STRENGTH
W - WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE
B - BULGE
S - SHEAR
E - ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

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

SHEET 203 of 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	239
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-55

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	405.9 0			
Topsoil	403.9			
Loose damp yel&brn v.f. Sand, clay, some Fill	402.9	5		
Loose damp yellow & brown very fine Sand some silt.	5	8		
		5		17
	10	8		
	393.9			
brown fine Sand, trace silt.		12		
	15	9		
	388.4	8		
Medium to dense damp grey fine Sand, trace silt	20	11		
		13		
	25	30		
		31		
	375.9			
Medium to dense wet grey fine to coarse Sand, trace silt.	30	24		
		15		
	35	15		
		15		
	40	17		
		21		
	45	38		
	[illegible]			
	47	45		
Dense wet gray fine Sand, trace silt.	50	17		
	353.9	24		
Medium to dense wet gray fine to coarse Sand, trace small gravel.	350.9 55	44		
Dense wet gray fine Sand, trace silt.		35		
	345.9 60	45		
Dense gray fine to coarse Sand, trace small gravel and silt.		31		
	65	40		
	338.4	29		
Boring stopped by Inspector. WATER LEVEL 31.0	70			

BORING No. S-56

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	[illegible] 0			
Topsoil	[illegible]			
[illegible]		6		16
[illegible]	5	9	2.10S	23
[illegible]		8		
	10	6		
[illegible]		6		
[illegible]	25	9		
[illegible]		11		
[illegible]		11		
[illegible]		22		
[illegible]		5		
[illegible]		29		
		27		
[illegible]		27		
		27		
		11		
		17		
		15		
[illegible]		15		
(cont'd) tr. silt.	360.8 47	18		
Medium wet gray fine to coarse Sand,	50	18		
		20		
	55	25		
	351.8			
Gray medium to coarse Sand, some small gravel.		16		
	60	22		
	346.8			
Dense wet gray fine to coarse Sand, trace small gravel and silt.		37		
	65	42		
		51		
	70	39		
		47		
	332.8 75	45		
Boring stopped by inspector. WATER LEVEL 32				

BORING No. S-57

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	407.0 0			
Brown clayey Silt, some very fine Sand.	404.0	9		12
Loose dry yellow & brown very fine Sand, trace silt.	5	6		
	401.0			
Loose brown very fine Sandy Silt.		9		22
	10	8		
		6		
	393.5			
Medium damp very fine Sand, trace silt.	15	11		
		13		
	386.9 20	5		
Medium damp gray very fine Silty Sand.		13		
	25	7		
	381.0			
Medium to dense gray fine Sand, trace silt		31		
	30	34		
			30	
	35	19		
	370.5			
Loose v.wet gray v.f. Sand, little silt, tr. wood & lignite		7		
	369.0			
Medium wet gray fine to medium Sand, trace small gravel.	40	18		
	366.0			
Dense gray fine Sand, trace silt		23		
	45	38		
	47	16		
	50	35		
	355.5			
Medium dense (continued)		20		
(cont.) wet gray fine to medium Sand.	55	31		
		32		
	347.0 60	21		
Loose gray very fine Sand.		6		
	342.5			
Medium to very dense gray fine to coarse Sand.	65	18		
		60		
	70	25		
		23		
	75	68		
	331.0			
Medium wet gray fine gravel, some coarse sand, trace silt.		19		
	80	22		
	326.0			
Medium wet brownish gray fine to coarse Sand, some small gravel, trace silt.		23		
	85	20		
		32		
	90	25		
	315.0			
Dense wet gray fine to medium Sand, some small gravel, trace silt.		38		
	95	43		
	312.0			
Boring stopped by Inspector. WATER LEVEL 30.5				

N - STANDARD PENETRATION TEST NUMBER - BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140 LB. WT. FALLING 30"

QU - UNCONFINED COMPRESSIVE STRENGTH

W - WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE
B - BULGE
S - SHEAR
E - ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

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

SHEET 204 OF 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F A I - 70	82-3HVB	ST CLAIR	283	240
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

BORING No. S-58

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	406.9 0			
Loose damp yellow and brown Silt, trace fine sand.	403.9 3	8		20
Brown silty Clay	402.4 4.5			
Loose dry yellow and brown fine Sand, trace silt.	400.9 6	8		17
Loose yellow and brown Silt, trace fine sand.	396.4 10.5	5		30
Loose wet brown silty Clay	392.9 14	5		34
Medium loose yellow and brown very fine Sand, some silt.	388.4 18.5	15	12	
			8	
Loose gray very fine Sand, trace silt.	380.9 26	20	9	
			11	
Medium gray fine Sand, trace silt and small gravel.	377.4 29.5	10	29	
			34	
			18	
Med. wet gray fine to coarse Sand, trace small gravel & 2" charred coal.	370.9 36	15	17	
Medium wet gray fine Sand, trace silt and small gravel.	368.4 38.5		15	
Medium wet gray fine Sand, trace silt.	362.9 44	40	30	
			26	
Medium wet gray medium (continued)		45	23	

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(continued)		47		
Sand, trace silt.	358.4 48.5	26		
Dense wet gray fine to coarse Sand, trace small gravel & silt.	355.9 51	50		43
Dense wet gray fine Sand, trace silt.	350.9 56	55		43
Med. wet gray fine to coarse Sand, tr. sml gravel & silt; organic matter noted.	349.4 57.5			28
Boring stopped by Inspector.				
WATER LEVEL 31.0		60		

BORING No. S-59

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	405.9 0			
Loose damp yellow & brown silty sand, trace clay.	402.9 3	7		
Loose damp yellow & brown silty Sand.	399.9 6	5		
Loose to medium wet brown and gray silty clay.	391.4 14.5	7	7	37
Medium fine brown Sand, some silt.	386.9 19	15	12	29
Medium gray fine Sand, some silt.	384.9 21	20	15	
Gray very fine Sand, trace silt.	381.9 24		12	
Medium dense to very dense gray fine to medium Sand, trace silt & small gravel.	369.9 36	25	50	
			47	
			36	
			60	
		35	57	
Medium wet gray fine Sand, trace silt.	362.9 43	40	28	
			25	
			27	
Medium wet gray fine Sand, trace (continued)		45		

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(continued)		47		
trace silt.	357.9 48	24		
Dense wet gray coarse Sand, some small gravel, trace silt.	352.4 53.5	50		34
				30
V.Dense wet gray fine to medium Sand, trace silt.	350.9 55	54		
Boring stopped by Inspector.				
WATER LEVEL 29.0				

BORING No. S-60

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	409.5 0			
Topsoil.	408.0 1.5			
Loose damp yellow and brown sandy silt.	403.0 6.5	7		
		9		17
Stiff brown silty clay, little very fine Sand.	400.5 9	9	1.8	24
Loose yellow and brown very fine Sand, trace silt.	387.2 22.3	10	8	
		5		27
		15	9	
			10	
			24	
		45	7	
Medium dense gray fine Sand, trace silt.	377.2 32.3		21	
		10	49	
			32	
		35	20	
			28	
		40	35	
			34	
		45	19	
fine to (continued)				

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(continued)		47		31
coarse		50		34
Sand,				45
trace		55		34
silt.	350.0 59.5			44
Boring stopped by Inspector.				
WATER LEVEL 30.0		60		

H - STANDARD PENETRATION TEST NUMBER - BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140# WT. FALLING 30"

QU - UNCONFINED COMPRESSIVE STRENGTH

W - WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE B - BULGE S - SHEAR E - ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

H. W. LOCHNER INC. ENGINEERS CHICAGO ILLINOIS

SHEET 205 OF 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. – 70	82-3HVB	ST. CLAIR	289	241
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-61

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	408.6 0			
Topsoil	407.2			
Medium stiff yellow and brown sandy silt.	402.6 5	9		17
Stiff brown silty clay	399.2 9	9	1.4B	25
Loose grayish-brown very fine sand, trace silt.	396.2 12	8		26
Medium wet gray silt and very fine sand.	391.2 17	9		31
Very soft gray organic silt.	388.2 20	3		40
Medium stiff gray very silty clay, trace silt.	383.2 25	11		43
Medium moist dark gray silt and very fine sand.	378.2 30	10		31
Medium damp gray fine sandy silt, and organic matter.	374.2 34	11		21
Dense damp gray fine sand, trace silt.	372.2 36	43		
Dense moist gray fine sand	370.2 38			31
Medium wet gray fine to medium sand, trace silt.	368.2 40	25		22
Medium				23
dense				26
wet gray				27
fine				37
Sand,	45	41		
(continued)				

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(continued)	47			26
trace silt.	50	27		
	357.4			
Dense to very dense wet gray fine to medium Sand, trace silt and small gravel.	55	44		
		60		
	348.4 60	108		
Boring stopped by Inspector.				
WATER LEVEL 33.0				

BORING No. S-62

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	406.8 0			
Top soil	405.8			
Very loose to stiff brown very fine Sand, some silt.	401.8 5	4		15
		8		
Loose yellow and brown very fine Sand, some silt.	396.8 10	8		
		7		
Loose wet brown Sandy Silt.	392.3	7		34
Loose wet gray fine Sand, some silt.	389.8	15	4	
Medium damp brown fine Sand.	384.3	10		
		20	14	
Medium damp gray very fine		6		
Sand, little silt.	377.8	25	17	
Medium		41		
		30	38	
dense				
			25	
gray		35	39	
fine			31	
Sand,		40	28	
			38	
trace				
		45	27	
(continued)				

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(continued)	47			26
silt.	50	33		
	351.8			39
Medium dense wet gray fine to coarse Sand, trace small gravel, some silt.	55	29		
	349.3			47
Boring stopped by Inspector.				
WATER LEVEL 31.0				60

BORING No. S-63

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	406.5 0			
Black clayey Silt, and Cinder Topsoil	404.5			
V.loose damp silty very fine Sand.	403.5	4		
Loose brown very fine Sand, some silt.	5	5		
	7			17
	397.0			
Very loose moist brown Silt, some very fine sand.	10	7		30
	393.0	2		
Very loose wet gray silty very fine Sand.		15	3	
	387.5			
Loose damp brown fine Sand, trace silt.	385.5	20	10	
Loose moist gray very fine Sand, some silt.	25	7	5	
	380.5			
Medium damp gray fine Sand.	377.5			13
Medium wet gray fine to medium Sand, trace silt.	374.5	30	23	
			22	
Medium		35	24	
to				
dense			23	
to				
fine		40	40	
gray			41	
very				
fine	45		50	
Sand, (continued)				

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(continued)	47			41
trace silt.				
Gray f - c Sand.	356.0	25		
Medium to dense wet gray fine Sand, trace silt.	55	16		19
		34		
	346.5 60	43		
Boring stopped by Inspector.				
WATER LEVEL 29.0				

N – STANDARD PENETRATION TEST NUMBER – BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140 LBS. WT. FALLING 30"

QU – UNCONFINED COMPRESSIVE STRENGTH
W – WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE
B – BULGE
S – SHEAR
E – ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

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

SHEET 206 OF 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I - 70	82-3HVB	ST CLAIR	249	240
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-67

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT.	QU T.S.F.	W %
Ground surface	405.4 0			
Topsoil	404.1			
Loose brown fine silty Sand.	402.6	6		
Stiff brown silty Clay trace fine sand	399.4 5	5	.448	27
Loose damp brown Silt trace Clay and fine Sand.	397.4	6		30
Loose brown fine Sand, trace silt and clay.	392.4 10	7		
Very loose wet gray fine Sand, trace silt.	388.4 12	2		
Very soft gray clayey silt.	384.9 20	4		44
Loose wet gray silty fine Sand.	377.4	9		
Loose wet gray silt, trace clay and fine sand	377.4 25	7		35
Medium wet gray fine sand, little silt, trace black organic matter	372.4	10	22	24
Soft gray clayey silt.	369.4 35	43		35
Medium dark gray very fine sand, little silt, trace organic matter.	364.9 40	20		44
Soft gray clayey silt, some sand, trace organic matter.	359.5 45	7		44
		17		44
Medium (continued)				

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT.	QU T.S.F.	W %
(continued)	47			
dense		49		
wet				
gray	50	27		
fine				
to		33		
coarse				
Sand.	351.4			
Decayed wood.	350.6	45		24
Dense				
wet		46		
gray				
fine				
Sand,	60	45		
trace				
silt.		45		
	342.4			
Dense gray fine to coarse Sand, trace silt.	65	43		
	337.9			29
Medium				
wet				
gray	70	27		
fine to				
coarse				21
Sand,				
trace silt.	330.4 75			23
Boring stopped by Inspector.				
WATER LEVEL 22.				

BORING No. S-68

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT.	QU T.S.F.	W %
Ground Surface	404.5 0			
Topsoil	403.0			
Very loose moist brown silty very fine sand	401.5	3		29
Loose wet gray and brown clayey silt, trace very fine sand.	398.0 5	6	1.11	33
Medium moist brown very fine sand, trace silt.	393.0	8		
Loose wet gray very fine sand, trace silty sand.	386.0	11	.312	36
Loose wet gray fine sand, trace silt.	380.0 25	3	.233	35
Loose to dense wet gray fine sand, trace silt.	368.0	8		
Medium wet gray fine sand, trace organic matter.	356.0	17		18
Medium Loose wet gray fine sand, trace silt, roots noted.	338.5	22		
Medium (continued)		6		3

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT.	QU T.S.F.	W %
(continued)	47			
wet gray fine to coarse Sand, some gravel, trace silt.	352.0	29		16
Dense wet gray fine to medium Sand, trace silt and small gravel.	341.0	41		35
Dense wet brown and gray coarse Sand, little gravel and silt.	327.0	49		32
Boring stopped by Inspector.		43		23
WATER LEVEL 29.0				

BORING No. S-69

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT.	QU T.S.F.	W %
Ground Surface	414.7 0			
Loose to Medium damp dark brown cinders, wood and brick Fill	401.2	5		
Medium stiff DARK GRAY silty clay	399.2 15	3		
Medium Dense YELLOW & BROWN fine Sand, trace silt.	396.2	8	1.98	26
Very loose wet YELLOW AND BROWN fine sand.	386.2	11		
Loose wet gray very fine sand, little silt.	384.2	4		
Very soft GRAY silty clay trace fine Sand.	376.2	5		
Medium wet gray fine sand, trace clay	369.2	2	.218	32
		7	.316	31
Medium wet gray fine sand, trace organic matter.	349.2	35	7	37
		37		
		40	2	
		6		
	369.2	45	11	
Medium (continued)				

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT.	QU T.S.F.	W %
(continued)	47			
wet gray coarse Sand, trace small gravel and silt.	363.7 50	27		26
Very dense wet gray fine Sand, trace silt.	361.4	53		
Dense wet gray coarse Sand, trace small gravel & organic matter.	358.7 55	44		
Medium wet gray coarse Sand, some gravel, wood & organic matter.	356.4	24		
Very dense wet gray fine to coarse Sand, trace organic matter.	351.9 60	47		35
Very dense wet gray fine to coarse Sand, trace silt & gravel.	348.7 65	75		
Very dense, very wet gray fine Sand, trace silt.	346.2	66		
Dense wet gray sand, trace silt and wood.	344.7 70	35		
Medium wet gray medium Sand, trace silt and small gravel.	339.7 75	53		44
Boring stopped by Inspector.				
WATER LEVEL 40.5				

W - STANDARD PENETRATION TEST NUMBER - BLOWS TO DRIVE 2" O.D. (1.4" I.D.) SPOON SAMPLER 12" WITH 140 LB. FALLING 30"

QU - UNCONFINED COMPRESSIVE STRENGTH

W - WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE B - BULGE S - SHEAR E - ESTIMATED FAILURE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

H. W. LOCHNER, INC. ENGINEERS CHICAGO ILLINOIS

SHEET 209 OF 249

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	243
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-70

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
GroundSurface	407.6 0			
Top soil	406.9			
Loose damp yellow & brown very fine Sand, trace silt.	399.6	5		
		7		
		6		
		5		
Medium brown clayey Silt.	393.1	10	5 .88	38 40
		5	.39	35
Loose wet brown fine Sand & Silt	392.1	15	8	35
Very loose wet grey Silt some very fine sand.	389.6		2	41
Very soft gray clayey Silt	385.6	20	2 .22	44
Loose damp grey very fine Sand, some silt, trace clay.	381.6	5	.48	43
		25	5	32
Medium damp gray fine Sand, trace silt.	378.6	30	26	
Medium dense wet grey fine to medium Sand, trace small gravel.	366.6	35	71 29 22 35 28	
Medium wet grey coarse Sand, trace small gravel.	362.6	45	15 21	
Dense wet (continued)				

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
(continued) gray fine to coarse Sand	359.1	47		34
Dense wet gray medium Sand, trace small gravel and silt.	350.1	50		84 36 30 63
Boring stopped by Inspector. WATER LEVEL 33				

BORING No. S-71

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	410.9 0			
Cinders, brick, Trace silt fill	392.4	12 5 10 12 15	18 7	
Very loose brown clayey silt.	392.4			
Soft brown gray clay	394.4	20 4	.5	30 33
Very loose brown clayey Silt, trace sand	391.9	25 5		28 29
Gray Silty trace silt.	389.8	11	1.0	24
Brown very fine Sand, trace silt.	386.4	10 23	5	
Medium fine Sand, trace silt.	376.9	15 40	28 26	
Medium to dense (continued)		45		16

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
(continued)	47			
fine to coarse Sand, trace silt and small gravel.	156.4	50		16 16 17 22 53 57 45
Boring stopped by Inspector WATER LEVEL 19.8				

BORING No. S-72

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	417.5 0			
Cinder fill.		8 5 16 10	7 9	
Red and brown Silty and very fine Sand	405.5 404.5	7	1.0	33
Cinder fill	400.5	17	9	
Gray Clay	399.5		3	
Brown Silty fine Sand	394.0	20	13 5	
[illegible]		25	7 1.0E	33
[illegible] gray			0.5	27
silty Clay	386.0	10	5	.7E
Medium gray very fine Silty Sand.	373.5	15 40	13 11 10 11 12	
Medium gray (continued)		45		31

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
(continued)	47			26
fine to coarse silty Sand, trace small gravel.	363.5	60		29 21
Dense gray fine to medium Sand, trace silt.	361.0	45		35 25
Dense gray fine to coarse silty Sand, trace small gravel.	354.0	60		50 37
Log wood	352.5	65		19
Dense gray fine to coarse Sand, trace small gravel.	349.0	70		34
Very dense gray fine to medium Sand, trace silt.	344.5	75		64 65
Very dense gray fine to coarse Sand	340.0	75		69 28
Boring stopped by Inspector. WATER LEVEL 40.0'				

N - STANDARD PENETRATION TEST NUMBER - BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140# WT. FALLING 30"

QU - UNCONFINED COMPRESSIVE STRENGTH
W - WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE
B - BULGE
S - SHEAR
E - ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

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

SHEET 208 of 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	244
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-73

IDENTIFICATION	ELEV. DEPTH	N BLOWS T S.F.	QU	W %
Ground Surface	415.6 0			
Medium loose black Cinders, brick, gravel, Sand, and silt	5 10	11 9 6		
Fill	400.6 15	11		
Medium hard brown fine sand,	399.1			
Gray clayey silt	398.6	11	28	
Loose moist brown fine silty sand,	394.1 17	7	29	
Medium damp dry fine sand, true silt,	383.1 25	19 16 17		
Medium hard brown fine sand, true silt,	376.6 25	22 23		
Dense moist gray fine to medium sand, little small gravel, trace organic matter	372.1 40	31 20		
Medium dense wet gray medium to coarse sand, trace small (continued)	45	30		

IDENTIFICATION	ELEV. DEPTH	N BLOWS T S.F.	QU	W %
(continued)	47			
Dense wet gray fine to coarse sand,	368.1 50	25 32		
Very dense wet gray fine to coarse sand, trace small gravel and silt.	364.6 50	38		
Very dense wet gray fine to coarse sand, trace small gravel.	359.6 55	13		
Dense wet gray fine to coarse sand, trace small gravel, trace silt	352.6 60	47 27		
Very dense gray fine to coarse sand, trace small gravel, little silt	342.6 75	67 33 47		
Very dense gray fine to medium sand, trace small gravel	338.1	44		
Boring stopped by inspector.				
WATER LEVEL 40.0				

BORING No. S-74

IDENTIFICATION	ELEV. DEPTH	N BLOWS T S.F.	QU	W %
Ground surface	417.6 0			
Cinders, glass, and miscellaneous fill	413.1 5	7 14		
Loose yellow and brown fine sand, trace silt.	403.6	10 5 7		
Soft br. silty clay	403.1	4	1.0	
Medium yellow and brown fine sand, little silt, trace small gravel	379.6	14 17 20 16 17 22		
Loose gray and brown fine to coarse sand, trace small to medium gravel.	375.6	7 30 29 20 35 37 24		
Dense gray medium sand, trace silt.	372.6 45	39 40		
Medium (continued)				

IDENTIFICATION	ELEV. DEPTH	N BLOWS T S.F.	QU	W %
(continued)	47	24		
Gray coarse sand, little small gravel	401.6 50	43		
Gray coarse sand, trace small gravel, & silt	360.3	27 26		
Dense gr. fine to coarse sand & gr. silt	358.6	25 34		
Boring stopped by inspector.	357.6 60			
WATER LEVEL 41.0				

BORING No. S-75

IDENTIFICATION	ELEV. DEPTH	N BLOWS T S.F.	QU	W %
Ground Surface	435.1 0			
Cinders, Rock and Coal fill	430.1 5	13 14		
Medium hard brown silty clay	424.1	14 4		
Loose to medium dense gray fine sand,	414.1	9 9 15		
Very dense gray fine sand, trace silt,	399.1	8 14 20 18		
Very dense gray fine sand, little silt, trace organic matter,	384.1	25 15 24 33		
Very dense dark gray and brown sandy gravel,	382.1	25		
Very dense dark yellow and brown medium sand, little small gravel	376.6	60		
Dense dark gray clay to medium sand, little small gravel,	374.1	40 49		
Medium dense wet gray clay to coarse sand, little small gravel	369.1 45	43 26		
(continued)				

IDENTIFICATION	ELEV. DEPTH	N BLOWS T S.F.	QU	W %
(continued)	47	22		
and silt.	50	22		
	140.6	35		
Boring stopped by inspector.				
WATER LEVEL 46.0				

H - STANDARD PENETRATION TEST NUMBER - BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140# WT. FALLING 30"

QU - UNCONFINED COMPRESSIVE STRENGTH

W - WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE B - BULGE S - SHEAR E - ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

H. W. LOCHNER INC. ENGINEERS CHICAGO, ILLINOIS

SHEET 209 of 241

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F A I – 70	82-3HVB	ST CLAIR	285	245
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

BORING No. S-76

IDENTIFICATION	ELEV. DEPTH	N BLOWS T/L.F.	QU	W %
Ground Surface	416.8 0			
Cinder, Brick, Coal and Brick Fill	410.8 5	13		
Brown silty Sand, trace clay	408.8	3		27
Loose damp yellow and brown very fine Sand, trace silt.	402.8 10	5		
	15	6		
Loose to dense brown very fine Sand, trace silt with organic matter noted.	20	9		
	25	17		
	30	26		
	35	38		
		25		
	40	52		
	374.8			
Dense wet gray fine to coarse (continued)	45	34		

IDENTIFICATION	ELEV. DEPTH	N BLOWS T/L.F.	QU	W %
(continued)	47			
Sand, trace small gravel and silt.	369.3	34		
Boring stopped by Inspector. WATER LEVEL 42.0				

BORING No. S-77

IDENTIFICATION	ELEV. DEPTH	N BLOWS T/L.F.	QU	W %
Ground Surface	416.1 0			
Top soil	413.1			
Cinders and Miscellaneous fill	407.1 5	9		
		5		
		4		
Loose to dense yellow and brown fine Sand, trace silt.	10	10		
		7		
	15	9		
		20		
	20	15		
		14		
	25	16		
		12		
	30	21		
		24		
	35	28		
		38		
	375.6			
Medium dense wet gray fine to coarse (continued)	40	43		
		23		
	45	42		

IDENTIFICATION	ELEV. DEPTH	N BLOWS T/L.F.	QU	W %
(continued)	47			
		32		
Sand, trace small gravel and silt.	50	23		
		29		
	360.1			
Medium dense wet gray fine Sand, trace silt.	55	19		
		35		
	352.1			
Very dense grey fine to coarse Sand, trace small gravel.	349.1 65	16		37
		55		
		42		
Boring stopped by Inspector. WATER LEVEL 38.0				

BORING No. S-78

IDENTIFICATION	ELEV. DEPTH	N BLOWS T/L.F.	QU	W %
Ground Surface	415.6 0			
Topsoil	414.1			
Black cinders and brick fragments fill.	411.1 5	6		
		2		
Medium damp yellow and brown fine Sand, trace silt.	10	11		
		13		
		13		
	15	18		
		18		
	20	22		
		29		
	25	23		
		32		
	30	23		
		24		
	35	37		
	379.6			
Dense wet gray fine to coarse Sand, some small (continued)	40	38		
		38		
	45	37		

IDENTIFICATION	ELEV. DEPTH	N BLOWS T/L.F.	QU	W %
(continued)	47	39		
gravel, trace silt.	365.4 50	31		
Boring stopped by Inspector. WATER LEVEL 38.0				

N – STANDARD PENETRATION TEST NUMBER – BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140# WT. FALLING 30"

QU – UNCONFINED COMPRESSIVE STRENGTH
W – WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE
B – BULGE
S – SHEAR
E – ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

H W. LOCHNER INC
ENGINEERS
CHICAGO ILLINOIS

SHEET 210F241

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.- 70	82-3HVB	ST. CLAIR	269	246
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-82

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT.	QU T.S.F.	W %
Ground surface	443.2	0		
(continued)	347			
medium				
sand,				
trace				
silt				
and				
small				
gravel				
very				
dense				
wet				
gray				
fine				
sand,				
little	350.4			
Borings stopped by Inspector.				
WATER LEVEL 36.0				

BORING No. S-83

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT.	QU T.S.F.	W %
Ground surface	433.2	0		
Top soil	432.2			
stiff damp brown clayey silt, some very fine sand,	430.2	10	2.0	
loose damp brown very fine silty sand, trace	429.2	7		
stiff damp brown sandy silt, trace clay	426.2	10	1.5	17
medium		12		
damp				
yellow		12		
and		24		
brown				
very		16		
fine		10		
sand,		11		
trace				
silt.		28		
	382.2			
medium weight sandy silt,	381.2	27		
dense damp yellow & brown fine sand, trace small gravel	376.7	35		
medium dense wet gray fine sand, trace silt, organic matter mixed.	368.7	39		
medium wet gray fine to coarse (continued)		43		27

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT.	QU T.S.F.	W %
(cont'd) Sand	366.2	47		
gray fine sand	365.2	30		
medium dense wet gray fine to coarse small gravel and silt; organic matter mixed.	357.2	50		19
Gr. clayey silt	356.7	37		
Dense wet gray fine to medium sand, trace silt.	353.2	30		
		60		42
Boring stopped by Inspector.				
WATER LEVEL 37.5				

BORING No. S-84

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT.	QU T.S.F.	W %
Ground surface	418.2	0		
Cinders, and Miscellaneous fill	408.4	7		
		5		
		4		
		7		1.8
brown silty clay	402.2	5		
		7		
		14		
medium		14		1.1
dense		24		
		23		
brown		24		
fine		30		
		21		
sand,		28		
		35		
trace		33		
silt.		36		
	377.2	40		
Dense gray fine to coarse (continued)		39		
		42		
		40		

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT.	QU T.S.F.	W %
(continued)	47			
Sand, trace small gravel and silt.	370.7	38		
		32		
Boring stopped by Inspector.				
WATER LEVEL 41.0				

N - STANDARD PENETRATION TEST NUMBER - BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140# WT. FALLING 30"

QU - UNCONFINED COMPRESSIVE STRENGTH
W - WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE
B - BULGE
S - SHEAR
E - ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

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

SHEET 211 OF 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. – 70	82-3NVB	ST. CLAIR	289	247
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-85

IDENTIFICATION	ELEV. DEPTH	N	BLOWS/1'	QU	%
Ground surface	414.5	0			
Slag and cinder fill	409.7	4.8			
Very brown silt.	404.5	10.0			
Loose to medium brown fine Sand, trace silt.	392.0	22.5			
Medium brown fine Sand, trace silt.	382.5	32.0			
Loose brown fine Sand.	379.5	35.0			
Very dense gray medium Sand, trace small gravel	377.0	37.5			
Medium gray fine to medium Sand, trace small gravel and silt.	369.7	44.8			
Medium gray fine to coarse Sand, trace small gravel (continued					

IDENTIFICATION	ELEV. DEPTH	N	BLOWS/1'	QU	%
(continued) & silt w/ org. matter	367.0	47			
Medium gray medium to coarse Sand	364.5	50/5"			
Dense gray fine to coarse Sand, with large gravel	354.5	60			
Boring stopped by inspector.					
WATER LEVEL 390.0					

BORING No. S-86

IDENTIFICATION	ELEV. DEPTH	N	BLOWS/1'	QU	%
Ground surface	414.5	0			
Black Loader fill	403.4	11.1			
Medium brown very fine sand	402.0	12.5			
Medium brown fine Sand, trace silt.	381.0	33.5			
Dense gray fine Sand, trace organic matter.	371.5	43.0			
Medium dense gray fine to medium (continued					

IDENTIFICATION	ELEV. DEPTH	N	BLOWS/1'	QU	%
(continued) Sand, trace small gravel & silt.	356.5	58			
Medium gray fine to coarse Sand	341.0	73/11"			
Dense gray fine Sand	309.5	104/11"			
Boring stopped by inspector.					
WATER LEVEL 388.0					

BORING No. S-87

IDENTIFICATION	ELEV. DEPTH	N	BLOWS/1'	QU	%
Ground surface	414.5	0			
Cinders.	407.5	7.0			
Black fill	398.0	16.5			
Brick fill	391.5	23.0			
Medium brown fine Sand, trace silt.	378.0	36.5			
Loose brown fine sand, trace small gravel.	376.5	38.0			
Dense gray fine to medium Sand, trace small gravel and silt.	368.5	46.0			
(continued)					

IDENTIFICATION	ELEV. DEPTH	N	BLOWS/1'	QU	%
(continued)	367				
Medium gray fine to medium Sand, trace small gravel and silt.	363.5	50/5"			
Medium gray fine to coarse Sand	338.5	75/11"			
Medium gray fine Sand	326.5	87/11"			
Medium gray fine to medium Sand, trace silt.	313.0	100/11"			
Gray fine Sand	289.5 est.	98/11"			
Boring stopped by inspector					
WATER LEVEL 394					

+ - STANDARD PENETRATION TEST
NUMBER - BLOWS TO DRIVE 1⅜" O.D. SPLIT SPOON SAMPLER 12" WITH 140 LB. WT. FALLING 30"

QU - UNCONFINED COMPRESSIVE STRENGTH
% - WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE
B - BULGE
S - SHEAR
E - ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3NVB

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

SHEET 212 OF 24

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	248
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-91

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground surface	411.5 0			
Cinders		8		
and		5	4	
miscellaneous		5		
Fill	402.0	10	25	
Stiff brown silty clay	399.5	11	1.2	26
Medium		15	14	
dense			13	
brown		20	35	
			33	
fine	25		24	
Sand,		30	20	
trace				
silt.			34	
	376.5	35	39	
Medium dense gray fine to coarse Sand, trace silt (continued)		40	22	
			19	
		45	22	

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
		47		
and			34	
small				
gravel.		50	47	
	361.0		49	
Boring stopped by inspector.				
WATER LEVEL 39.5				

BORING No. S-92

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	414.6 0			
Brick, Cinders and Miscellaneous Fill	407.6	5	2	
Very soft brown silty Clay	406.1	2	.8E	36
Loose yellow and brown very fine Sand, trace silt	401.1	10	6	
			7	
Medium loose yellow and brown fine Sand, trace silt.	387.6	15	17	
			16.	
		20	9	
			7	
		25	23	
Medium yellow & brown very fine Sand, trace silt.	384.1	30	11	
Dense yellow & brown fine Sand	378.6	35	43	
			63	
Medium dense gray fine to medium Sand, trace silt	371.6	40	49	
			21	
			46	
Medium dense (continued)		45	33	

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
		47		
gray fine to coarse Sand, trace small gravel and silt, trace organic matter.			39	
		50	20	
			16	
		55	26	
			26	
		60	37	
Boring stopped by inspector.	352.1		21	
WATER LEVEL 38.5				

BORING No. S-93

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground surface	407.3 0			
brown very fine Sand, some silt	404.3	5		
Medium		5	8	
yellow				
and			11	
brown		10		
very			13	
fine				
Sand,				
trace		15	10	
silt.			8	
	388.8			
Medium yellow, brown and grey very fine Sand, trace silt.	386.3	25	11	
Dense			16	
grey		25	24	
fine			42	
Sand		30	34	
Grey fine Sand, trace silt & organic mat.	374.8 373.8		24	
		35	31	
Medium grey fine to coarse Sand, trace small gravel.		40	28	
			24	
		45	17	
Medium grey fine (continued)	361.3		18	

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Sand, trace silt with 3" wood seams.	358.8	15		
Medium		50	16	
to dense gray medium to coarse Sand, trace small gravel, trace organic matter.	338.8	50	25	
		55	37	
			37	
		60	37	
			10	
		65	10	
			24	
Dense grey fine Sand, trace silt	333.8	70	44	
			27	
very dense grey coarse Sand, with small gravel	332.3	75	86	
Boring stopped by inspector.				
WATER LEVEL 36.5				

N - STANDARD PENETRATION TEST NUMBER - BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 1'' WITH 140# WT. FALLING 30"

QU - UNCONFINED COMPRESSIVE STRENGTH
W - WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE
B - BULGE
S - SHEAR
E - ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

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

SHEET 213 of 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.- 70	82-3HVB	ST. CLAIR	289	249
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-103

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground surface	414.2	0		
Cinder and brick fill	406.7	5		
Loose yellow and brown very fine silty sand	404.7	10	5	.9	30
Soft brown silty clay	402.4	6		
Loose yellow and brown very fine silty sand	400.7				
Medium dense brown clayey silt		22	8	.1K	27
Very fine Sand, trace silt	386.7	20	9	1.1K	34
Medium dense gray very fine Sand, trace silt		9	1.1K	34
Sand	389.7	25	15		30
Medium grey very fine Sand, trace silt	386.7	18			
Medium grey very fine Sand.		30	15		
		35	29		
and Silt	376.7		84		
Medium dense gray fine (continued)		40	53		
		45	26		
			32		

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
(continued)		47		
to coarse Sand, trace silt.		50	35		
		50	24		
			35		
		55	18		
some organic matter noted.			33		
		60	23		
	351.7	118		
Boring stopped by Inspector.					
WATER LEVEL 42.0					

BORING No. S-104

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	411.6	0		
Cinders and Topsoil Fill	407.6	26		
Medium brown medium silty sand	405.1	11	14		
Loose gray and brown fine Sand, trace silt	402.1	5		
Soft gray silt and clay, some very fine Sand.	396.6	10	5		
		7	1.7	34
		15	4	.7K	34
Soft gray clayey silt		6	1.9	30
		20	4	.7K	30
					34
and Sand	385.1	25	5		
Medium dense gray fine to medium Sand, trace silt.	377.6	16			
		30	14		
		35	17		
	371.6	40	20		
Dense gray coarse Sand.		45	25		
(continued)			55		

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
(continued)		47		
trace silt with small gravel.	358.1	50/3"	23		
Dense gray coarse Sand, trace silt	350.9	50/1"	36		
		50/1"	32		
			70		
Dense gray fine silty Sand	349.2		48		
Boring stopped by Inspector.					
WATER LEVEL 33.0					

BORING No. S-105

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground surface	412.4	0		
Cinder and Miscellaneous Fill	409.4	12		
Very loose yellow and brown very fine Sand, trace silt	404.4	5	4		
		3		41
Stiff brown silty clay	401.4	10	9	1.5	32
Medium yellow and brown very fine Sand, trace silt.		17			
		15	18		
			11		
		20	21		
Loose gray fine Sand, trace silt and organic matter	389.4	30			
		25/7"	9		
Medium yellow & brown fine Sand	386.4	18			
Dense gray fine to coarse Sand, trace small gravel.	366.4	30/7"	17		
			30		
			35		
			31		
		40	26		
	372.4		29		
		45	48		

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Oak log partially decayed.	364.4	47	257		
Dense gray fine to coarse Sand, trace small gravel and silt	352.4	50	29		
			46		
		55	28		
			46		
		60	62		
Boring stopped by Inspector.					
WATER LEVEL 36.0					

N - STANDARD PENETRATION TEST NUMBER - BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140 LBS. WT. FALLING 30"

QU - UNCONFINED COMPRESSIVE STRENGTH
W - WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE
B - BULGE
S - SHEAR
E - ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

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

SHEET 214 OF 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	250
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-106

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	412.3 0			
Very loose black cinder, brick and miscellaneous Fill	406.3 5	2		
Loose yellow & brown very fine Sand, trace silt	402.8	5		
Brown clayey silt.	400.3 10	6	.88	24
Gray silty Clay	395.8 15	5	3.1	24
Very loose gray silty Clay	392.3	4	.6	24
Medium brown fine to medium Sand, trace silt.	388.3 25	16		
Medium brown fine Sand	384.8	30		
Medium gray & brown fine Sand	380.8 30	26		
Dk.Br. Med. Sand	380.3			
Medium gray fine Sand	380.1	29		
Medium brown fine Sand	375.8 35	19		
Medium grey medium Sand	371.8 40	10		
Medium grey fine Sand, trace silt (continued)		28		

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
	365.3 47	36		
Medium gray fine to coarse Sand, trace small gravel.	349.3 63	44		
Dense grey fine Sand	346.8 65	32		
Dense grey very fine Sand, traces organic matter.	341.3 71	7045		
Boring stopped by Inspector.				
WATER LEVEL 17.0				

BORING No. S-107

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	414.4 0			
Medium silt, sand, and cinder Fill	407.4 5	11		
Medium brown fine Sand, trace silt, some cinders	401.9 10	10		
Medium brown medium Sand, trace silt.	399.4 15	11		
Medium gray fine Sand, trace silt.	391.9 20	16		
Medium gray fine Sand, trace silt.	389.4 25	12		
Medium grey fine silty Sand	381.9 30	18		
Dense gray medium Sand	379.4 35	38		
Dense grey medium to coarse Sand, trace silt.	369.4 45	26		
Dense (continued)		23		

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
	47	47		
Gray coarse Sand, trace silt.	356.4 58	28		
Very dense gray fine Sand, trace silt.	351.9 60	92		
Boring stopped by Inspector.				
WATER LEVEL 16.0				

BORING No. S-108

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	410.3 0			
Brick, Cinders, Sand & Miscellaneous Fill	407.8	10		
Brick and slag Fill	405.3 5	29		
Slag Fill	401.8			
Loose brown Silt trace clay.	400.3 10	6		
Loose brown fine Sand, trace silt.	395.6	7		24
Medium yellow and brown silty fine Sand.	383.0	13		
Loose gray very fine Sand	380.3 30	6		
Dense dark grey fine to medium Sand	375.3 35	39		
Dense moist gray fine to coarse Sand	368.8	49		
Dense gray fine to coarse Sand	365.3 45	30		
Medium (continued)		38		

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
	47	42		
Dense gray fine to medium Sand, trace small gravel	352.8	19		
Very dense gray fine Sand, trace silt.	350.3 60	75		
Boring stopped by Inspector.				
WATER LEVEL 18.0				

N - STANDARD PENETRATION TEST NUMBER - BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140# WT. FALLING 30"

QU - UNCONFINED COMPRESSIVE STRENGTH
W - WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE
B - BULGE
S - SHEAR
E - ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

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

SHEET 215 of 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.- 70	82-3HVB	ST. CLAIR	289	251
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-112

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	417.5 0			
Black and brown Cinders and Miscellaneous Fill	408.5 9			
Medium yellow & brown fine Sand	397.5 20			
Very loose to loose brown silty clay	389.5 28	4	1.0	37
Medium gray very fine Sand, trace silt	376.5 41	36		
Very Dense gray fine Sand, trace silt	370.5 47	67		

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Dense gray fine to coarse Sand, trace small gravel and silt.	47	30		
	52	33		
	43			
	55	19		
	359.0	36		
Boring stopped by Inspector.				
WATER LEVEL 41.0				

BORING No. S-113

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	417.5 0			
Miscellaneous Fill	395.5	14		
		5		
		10	4	
		15	9	44
		11		
		20	8	
Soft brown silty Clay, trace fine Sand	390.5	4		
		25	2	
		5		
Medium yellow and brown with gray very fine Sand, trace silt	376.5	30	25	
			24	
		35	20	
			19	
		40	20	
Medium to very dense gray (continued)		45	19	
			14	

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
(continued) fine to coarse Sand, trace silt.	366.0	47	54	
		50	67	
Medium dense gray very fine Sand.	356.5	55	46	
			50	
			28	
		60	12	
			33	
Medium dense gray fine to coarse Sand, small to large gravel and silt.		65	8	
			12	
		70	13	
			29	
		75	46	
			46	
		80	51	
			21	
		85	25	
			23	
		90	15	
			17	
		95	34	
			29	
Boring stopped by Inspector.	317.5	100	34	
WATER LEVEL 41.0				

BORING No. S-114

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	413.9 0			
Cinders, coarse gravel and miscellaneous Fill	410.9	91		
Very loose fine Sand, trace silt.	408.4	5	4	
Very loose gray silty, clayey, Sand	405.9		3	
Very loose gray fine Sand, trace silt.	402.9	10	3	
Very loose gray very fine Sand, some silt.	397.4	3	0.5	43
		15	4	27
Loose gray very fine Sand, trace silt.	395.4	5		27
Medium gray silty medium to fine Sand	390.4	20	15	
		15		
Medium gray fine Sand, trace silt.	377.9	25	18	
			16	
		30	20	
			27	
		35	20	
Medium dense gray coarse Sand	370.9	40	29	
			43	
			34	
Dense gray fine (continued)		45	39	

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
(continued) Sand, trace silt.	47			
	361.9	50		
Boring stopped by Inspector.				
WATER LEVEL 41.0				

N - STANDARD PENETRATION TEST NUMBER - BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140# WT. FALLING 30"

QU - UNCONFINED COMPRESSIVE STRENGTH
W - WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE
B - BULGE
S - SHEAR
E - ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

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

SHEET 216 of 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. - 70	82-3HVB	ST. CLAIR	289	252
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-115

IDENTIFICATION	ELEV. DEPTH	N BLOWS T/L.F.	QU	W %
Ground Surface	413.3 0			
Black cinders, brick and miscellaneous fill	409.3	28		
Medium yellow and brown very fine Sand trace silt.	404.1	4		
Soft gray clay	401.3 10	6	1.5	27
Very loose brown silty fine Sand	400.3			
Soft brown clayey Silt, trace fine sand.	395.3 15	3	1.0	37
Medium yellow and brown fine silty Sand	390.0 20	5	1.0	30
Medium damp yellow and brown fine Sand, trace silt.	383.3 30	11		
Medium dense gray fine Sand	377.3 35	29		
Medium gray medium to coarse Sand, trace silt.	369.3 45	40	21	
Very dense (continued)		45	49	

IDENTIFICATION	ELEV. DEPTH	N BLOWS T/L.F.	QU	W %
(continued)	47	56		
gray fine Sand, trace silt.	358.3 55	111		
Boring stopped by Inspector.		97		
WATER LEVEL 36.0		112		

BORING No. S-116

IDENTIFICATION	ELEV. DEPTH	N BLOWS T/L.F.	QU	W %
Ground Surface	412.9 0			
Cinders, Ashes, Brick, and Miscellaneous Fill	405.4	25		
Medium damp yellow and brown fine silty Sand	400.4	23		
Loose gray Silt, trace clay and very fine sand, trace silt.	381.9 30	6	1.5	34
Loose to Medium gray Silt, trace clay and very fine sand.	375.9	8	1.5	40
Medium gray fine to coarse Sand, trace small gravel.	374.4	18		
Dense gray fine to coarse Sand, trace small gravel.	372.4	45		
Very dense gray fine Sand, trace (continued)		45		

IDENTIFICATION	ELEV. DEPTH	N BLOWS T/L.F.	QU	W %
(continued)				
Silt, trace fine Sand, some clay, trace small gravel.	355.7 47	23		
Dense medium gray medium Sand, trace small gravel.	347.4 55	44		
Medium dense gray medium to coarse Sand, trace small gravel and silt	342.9 60	25		
		37		
		27		
		32		
		37		
		41		
Boring stopped by Inspector.				
WATER LEVEL 36.0				

BORING No. S-117

IDENTIFICATION	ELEV. DEPTH	N BLOWS T/L.F.	QU	W %
Ground Surface	412.7 0			
Cinders, topsoil, and Miscellaneous Fill	402.7	22		
Very loose gray silty Sand	400.7	5	0.5	30
very loose gray and brown fine Sand, some silt & organic matter	400.7	5	0.5	30
Very loose gray and brown fine Sand and Silt	396.7	3	.98	27
Loose gray silty very fine Sand	394.7	7		27
Medium gray very fine Sand and Silt	391.7	20	12	
Loose to Dense gray fine to medium Sand, some silt.	374.7	15 to 35	4 to 21	
Medium gray medium to coarse Sand, trace silt.	369.2	40	16	
Dense gray medium Sand, trace silt & coal. (continued)	366.7	45	49	

IDENTIFICATION	ELEV. DEPTH	N BLOWS T/L.F.	QU	W %
(continued)				
Very dense gray fine Sand, trace silt.	350.2	62	120	
Boring stopped by Inspector.		135		
WATER LEVEL 32.0				

N - STANDARD PENETRATION TEST NUMBER - BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140 LB. WT. FALLING 30"

QU - UNCONFINED COMPRESSIVE STRENGTH

W - WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE B - BULGE S - SHEAR E - ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

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

SHEET 217 of 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.- 70	82-3HVB	ST. CLAIR	289	253
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-118

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	412.3 0			
Slag	409.8			
black cinders, Sand, and miscellaneous Fill	406.8 5	5		
Loose deep brown fine Sand, some silt.	405.3			
Soft dark brown silty clay, trace fine Sand	397.8 10	8	.7	27
Loose brown fine Sand, trace silt.	395.3 15	9		
Loose brown Sandy Silt	392.8 20	7		
Medium yellow and brown very fine Sand, trace silt.	387.3 25	13		
Medium grey sandy silt.	383.3 30	14		
Medium gray fine sand, trace silt.	381.3	15		
Loose gray Silt, and very fine sand.	378.3 35	8		
Dense to very dense gray fine to coarse Sand, with small gravel, trace silt, some limestone fragments.	339.8	50		
Boring stopped by Inspector.				
WATER LEVEL 35.0				

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
(continued)	47	122		
silt.	361.8 50	33		
Medium gray fine to coarse Sand, some small gravel, trace silt.	351.3 55	17		
Medium grey fine to coarse Sand, and small gravel, trace silt	347.8 60	11		
Dense gray fine Sand,	343.3 65	45		
Dense to very dense grey fine to coarse Sand, trace silt and small gravel.	333.3 75	40		
Dense gray fine to coarse Sand, with small to large gravel, trace silt.	330.3 80	41		
Medium to v.dense grey fine to coarse Sand, with small gravel, trace silt, some limestone fragments.	319.8 85	45		
Boring stopped by Inspector.				
WATER LEVEL 35.0				

BORING No. S-119

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	410.6 0			
Cinders, brick, Sand Fill and Concrete Slag from 2' to 3.2'	406.1			
Loose brown very fine Sand, some silt.	404.6 5	7		
Soft grey and brown silty Clay	402.1	6		
Loose to medium grey and brown very fine Sand, with silt seams.	391.1 15	5		
Medium grey fine Sand,	377.6 20	9		
Dense grey medium Sand, trace silt.	371.6 40	14		
medium grey medium to course Sand, (continued)	45	13		

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
(continued)	47	35		
trace silt and wood chips.	357.6	16		
Loose gray fine to coarse Sand, trace silt.	352.1	10		
V.Loose gray small gravel, some fine to coarse Sand, 1/8 to 2" wood seams.	347.1 60	2		
Very loose grey medium Sand, tr.silt 1/8 - 2" wood seam	345.6 65	12		
Dense gray fine to medium Sand, trace silt.	339.6 70	7		
Dense gray fine to medium Sand, trace silt.	334.6 75	33		
Very dense fine to medium gray Sand, trace silt & small gravel.	331.6	68		
Medium dense grey fine to coarse Sand, with small to medium gravel.	310.6 100	21		
Boring stopped by Inspector.				
WATER LEVEL 32.5				

BORING No. S-120

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	411.8 0			
Cinders, bricks, clay and slag Fill	404.8 5	51		
Stiff gray and brown silty Clay	400.8 10	9	1.0	27
Medium brown clayey Silt, some fine sand.	396.8 15	5	.5	27
Medium gray and brown fine silty Sand.	388.8 25	4	.5	34
Medium gray and brown fine silty Sand.	386.8 25	11		
Medium dense gray fine to coarse Sand, trace silt.	367.8 45	14		
Medium gray medium Sand, (continued)		21		

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
(continued) trace silt.	47 363.3	25		
Dense medium Sand, trace fine Sand,	50	45		
Boring stopped by Inspector.	349.3	26		
WATER LEVEL 41.0				

N - STANDARD PENETRATION TEST NUMBER - BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140 #T. FALLING 30"

QU - UNCONFINED COMPRESSIVE STRENGTH

W - WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE
B - BULGE
S - SHEAR
E - ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

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

SHEET 218 OF 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. - 70	82-3HVB	ST. CLAIR	289	254
FED. ROAD DIV. NO. 8	ILLINOIS	PROJECT		

BORING No. S-121

IDENTIFICATION	ELEV. DEPTH	N BLOWS/1'	QU S.F.	%
Ground surface	410.0	0		
Cinders, brick and miscellaneous fill.	393.5	16		
Very soft brown silt.	391.0	19		
Medium brown fine sand, trace silt.	380.0	30		
Medium grey silty very fine sand.	376.0	34		
Medium grey fine sand, trace silt, organic matter noted.	372.0	38		
Loose grey very fine sand.	364.5	45		
Medium (continued)				
(continued)		52		
gray		24		
medium		20		
—		17		
trace				
shell		45	35	
fragments				
	334.5			
Very dense gray fine to coarse sand, trace gravel.	331.5	78		
Very dense gray fine sand, trace shell fragments.	329.2	60		
Very dense gray fine sand.	326.7	109		
Dense gray fine to coarse sand, trace shell fragments.	335.7	38		
Very dense gray fine sand, trace shell fragments.	335.7	41		
Very dense gray fine sand, trace shell fragments.	335.7	49		
Very dense gray fine sand, trace shell fragments.	335.7	51		
Boring stopped by inspector.				

WATER LEVEL 37'

BORING No. S-122

IDENTIFICATION	ELEV. DEPTH	N BLOWS/1'	QU S.F.	%
Ground Surface	417.2	0		
Cinders, ballast, crushed rock, Fill	407.9	10		
Medium brown fine Sand, trace silt.	405.2	11		
Loose brown clayey Sand, & Silt	399.7	7		
Brown fine Sand, trace silt.	395.2	10		
Medium yellow and brown fine Sand, trace silt.	391.2	43		
Medium gray very fine Sand with decayed wood organic matter.	374.7	45		
Medium gray fine Sand, trace silt and coarse (continued)	372.2	48		
Very dense gray fine Sand, trace silt and coarse (continued)	372.2	45		
(continued) gravel.	369.7	47	113	
Dense gray fine Sand	367.2	55	34	
Very dense gray very fine to medium Sand.	357.2	45	88	
		47	89	
Gray coarse Sand and Gravel.	354.7	50	30	
Medium to very dense gray fine Sand, trace silt.	349.7	65	25	
Very dense gray fine to medium Sand, trace silt.	342.2	75	54	
Gray medium to coarse Sand, trace organic matter.	339.7	85	37	
Very dense to medium gray fine to coarse Sand, trace small gravel and silt.	334.7	82	19	
Medium dense gray fine to coarse Sand, trace small to medium gravel and (continued) silt, organic.	322.2	95	25	
Boring stopped by inspector.				

WATER LEVEL 36.0

BORING No. S-123

IDENTIFICATION	ELEV. DEPTH	N BLOWS/1'	QU S.F.	%
Ground Surface	417.6	0		
Cinder Fill	405.6	6	73	
		3		
		12	2	
Very loose brown silty with very fine sand.	403.1	3	24	
		15	3	32
Loose brown silty sand very fine Sand, trace clay.	395.6	12	24	
		21	5	42
Medium yellow and brown fine Sand, trace silt.	382.1	14	11	
		25	18	
		32	20	
		16		
		20		
Medium gray fine Sand, trace silt.	378.6	21		
Dark Gray medium gray fine to medium Sand, tr. silt, org. mat. noted.	376.1	42	25	
	374.6			
Medium		26		
		45	25	
Dense (continued)				

IDENTIFICATION	ELEV. DEPTH	N BLOWS/1'	QU S.F.	%
(continued)		47	28	
gray		50	53	
fine			74	
		55	43	
Sand.		57	58	
Top Silty	354.2			
Medium gray fine sand, trace silt.		46	20	
		46	25	
		46		
Medium gray fine sand, trace silt.	340.2	46	22	
Boring Abandoned by Inspector.				

WATER LEVEL 36.0

N - STANDARD PENETRATION TEST NUMBER - BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140 LT. FALLING 30"

QU - UNCONFINED COMPRESSIVE STRENGTH

% - WATER CONTENT % DRY WEIGHT

TYPE FAILURE B - BULGE S - SHEAR E - ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

H.W. LOCHNER INC. ENGINEERS CHICAGO, ILLINOIS

SHEET 219 OF 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I – 70	82-3HVB	ST. CLAIR	289	255
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-124

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	417.8 0			
Black cinders and miscellaneous Fill	401.3 15	3 5 2 10	25	9
Loose gray clayey Silt	399.8 18	5		34
Loose gray Silty very fine Sand	396.3 20	8		
Medium brown very fine Sand, trace silt.	191.3 25	22 16		
Medium dense gray fine Sand, trace silt.	376.8	18 30 34 24 40 17		
Medium Gray Silt	376.3			
Medium grey fine Sand, trace (continued)	45	20 24		

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
(continued) silt	47 368.8	17		
Dense gray fine to coarse Sand, small gravel.	50 361.8	20		
	55	44 48		
Very dense gray very fine Sand, trace silt.	357.8 60	215 76		
Boring stopped by Inspector.				
WATER LEVEL 41.0				

BORING No. S-125

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	413.6 0			
Cinders, Brick, Rock fragments Fill	405.6 5	8 31 22		
Gray Clay, trace silt.	402.6 10	3	.6	32
Brown and gray fine Sandy Silt	397.6 15	4 10	.7	27
Brown very fine Sand, trace silt & black organic matter noted.	392.1 20	13 26		
Medium brown fine to medium Silty Sand	385.6 25	10 11 13		
Medium gray silty Sand	380.1 30	13 17		
Medium gray very fine Sand	377.6 35	20		
Medium gray very fine Sand, trace silt & clay.	375.6 40	21 26		
Dense gray fine Sand, trace silt.	370.6 45	30 9		
Loose to dense gray fine (continued)				

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
(continued)	47	9		
to medium Sand, trace small gravel.	50 362.6	33		
Dense gray fine Sand	55 357.6	65 35		
Medium dense gray fine to coarse Sand, trace silt.	60 348.1	21 57 33 36		
Medium dense gray fine to coarse Sand, trace silt.	65 343.1	33 70 31 44		
Sand	335.6	26		
Fine to coarse Sand, trace silt some limestone fragments.	333.6 80	26		
Boring stopped by Inspector.				
WATER LEVEL 37.0				

BORING No. S-126

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	413.9 0			
Cinders, Slag & Brick Fill	409.9	30		
Loose gray medium silty Sand	404.9 5	7 5		
Loose to medium gray silty very fine Sand, some clay.	10 398.4 15	7 4 7	1.2+ .7+ 1.1+	30 37 37
Medium gray and brown fine Sand, trace silt and clay.	392.9 20	10 14		
Medium brown fine Sand, trace silt.	384.4	37 21 16		
Medium gray fine Sand, some silt.	379.9	30 20 18		
Loose gray fine Sand, silt lenses	377.9 35	9		27
Medium dense gray fine to (continued)	45	48 26 16 38		

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
(continued)	47	37		
medium Sand, trace silt.	50 355.9	27 37 58		
Dense gray fine to medium Sand, trace silt with small gravel.	60 347.9 65	46 47 128 34		
Gray medium to coarse Sand & small gravel, trace silt	346.4 70	30		
Boring stopped by Inspector.				
WATER LEVEL 35.0				

H – STANDARD PENETRATION TEST NUMBER – BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140# WT. FALLING 30"

QU – UNCONFINED COMPRESSIVE STRENGTH
W – WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE
B – BULGE
S – SHEAR
E – ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

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

SHEET 220 OF 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.- 70	82-3HVB	ST. CLAIR	289	256
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No.S-133

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	411.4 0			
Sand, silt, cinders, and miscellaneous Fill	405.9 5	15		6
Loose brown very fine Sand.	402.4	8		
Very loose brown Silt, trace very fine gravel.	400.9 10	3		
Loose to medium brown very fine Sand, some silt.	392.4	15	11	7
Loose gray fine Sand, trace silt.	381.4 30	20	11	9
		25		10
		35		4
Medium to very dense fine Sand, trace (continued)		45		49

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
(continued)	47	133		
silt and organic matter noted.	348.9	50		84
		50		62
		55		59
		60		39
		65		38
Boring stopped by Inspector.				33
WATER LEVEL 37.0				

BORING No.S-134

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	411.0 0			
Fill: Cinders and Sand.	408.5	11		
Loose yellow and brown very fine silty Sand.	406.0 5	4		
Loose yellow and brown silty Sand, trace clay.	403.5	8		
Stiff gray and brown Clay	401.0 10	3	.7	40
Stiff brown silty fine Sand, trace clay.	396.8	7	1.2E	24
Loose yellow & brown Silt, trace fine sand.	394.0	15	8	33
Medium yellow and brown fine Sand	391.0 20		13	
Loose gray and brown very fine Sand, organic matter noted.	388.5	17		
Very loose gray Silt, trace clay and fine sand.	386.3 25	8		
Very loose gray Silt, some very fine sand.	379.2	4		33
Medium dense brown very fine Sand, trace silt.	376.0 35	4		35
Medium dense brown fine Silty Sand, trace organic matter.	368.5	13		34
Medium brown silty fine Sand	366.5	40	31	
Very dense brown (continued)		45	78	

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
(continued)	47			
fine Sand, trace silt.	361.0 50	111		
Boring stopped by Inspector.		134		
WATER LEVEL 38.0				

BORING No.S-135

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	415.1 0			
Cinders, broken limestone, and miscellaneous Fill	408.6 5	23		
Loose to medium gray fine Sand, little silt.	401.1	16		
Very loose to medium gray fine Sand, some silt.	391.1 25	9		
		10		
		11		
		9		
Very loose gray clayey Silt, trace fine sand.	379.1 35	4	.5	27
		10		
		11		
		3		
Medium to very dense (continued)		10		
		28		
		26		
		53		

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
(continued)	47	61		
gray fine Sand, trace silt.	356.1	50		50
		55		32
		60		24
Medium gray fine to coarse Sand, trace small gravel and silt.	345.1 70	65		28
Boring stopped by Inspector.				37
WATER LEVEL 36.0				

H - STANDARD PENETRATION TEST NUMBER - BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140# WT. FALLING 30"

QU - UNCONFINED COMPRESSIVE STRENGTH
W - WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE
B - BULGE
I - SHEAR
E - ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

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

SHEET 221or241

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.I.– 70	82-3HVB	ST. CLAIR	285	257
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

BORING No. S-136

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	416.3 0			
Miscellaneous Fill	10	21		
	7	26		
	10	9		
	10	3		
	405.3			
Loose brown fine Sand, some clay with silt.	403.3 6			
Medium gray & brown silty Clay	15	9	1.25	24
	4		.88	30
	398.3			
Medium yellow & brown fine Sand, trace silt.	20	10		
	25	10		
	390.3			
Loose to Medium grey fine Sand, some silt.	10	6		
	10	7		
	10			
	35	8		
	38	12		
	378.3			
Medium dense gray fine Sand, trace (continued)	40	55		
	75			
	45	28		

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
(continued)	47	28		
silt and organic matter.	50	32		
	363.3	33		
Medium dense gray medium Sand, trace silt and organic matter.	55	15		
	60	15		
	41			
	352.3			
Dense gray medium to coarse Sand, trace silt & gravel.	350.8 65	45		
Dense gray very fine Sand, some silt.	85			
	346.3 70	42		
Boring stopped by Inspector.				
WATER LEVEL 33.0				

BORING No. S-137

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	416.4 0			
Cinders, and Miscellaneous Fill	5	31		
	6			
	10	4		
	9			
	403.4			
Medium gray and brown silty Clay, trace fine sand.	15	6	1.1	34
	398.4	3	.5±	36
Loose brown silty very fine Sand.	20	6		
	393.4			
Loose gray & brown clayey Silt	391.4	7	1.0	34
Medium gray fine Sand, little silt.	25	12		
	390.4			
Medium gray fine Sand, trace silt, traces organic silt	15	13		
	20	11		
	25	23		
	35	10		
noted.	380.4			
Medium dk. gray Silt, fine sand.	387.9	13		
Medium gray fine to medium Sand, trace silt	40	19		
	45	19		
	370.9	23		
Medium gray fine to coarse Sand, little small to medium gravel, trace silt.	368.4 47	19		
Dense wet brown & gray fine Sand, trace silt.	50	38		
	363.4	51		

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Medium gray fine Sand, trace silt.	355	25		
	360.4			
Very dense gray fine to medium Sand, trace silt and clay.	60	108		
	353.4			
Medium gray fine to coarse Sand, trace silt and small gravel.	65	14		
	347.9	28		
Dense gray fine to coarse Sand, some small gravel, trace silt.	345.9 70	47		
Medium gray fine to coarse Sand, with small gravel, trace silt, organic matter noted.	340.4 75	25		
		27		
Medium gray	80	16		
		39		
fine to coarse Sand, some small (continued)	85	44		
		21		
	90	15		
		25		
	95	26		
gravel, trace		11		
		25		
silt.	316.4 100	23		
Boring Stopped by Inspector.				
WATER LEVEL 41.9				

BORING No. S-138

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	417.2 0			
Cinders and Miscellaneous Fill	7			
	5	4		
	6			
	10	8		
	14			
	402.2 15	9		
Soft grey silty Clay	399.2	8	1.0	27
Loose gray Silt, trace clay and very fine sand.	20	4	1.0	24
	396.2			
Medium brown and gray fine Sand, trace silt.	25	16		
	391.2			
		28		
Medium dense gray fine to	30	28		
		17		
	35	22		
		13		
	40	5		
		7		
	45	60		
Medium (continued)				

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
(continued)	47	44		
Sand, trace silt.	50	44		
		40		
	55	31		
		36		
	358.2			
Dense gray fine Sand, trace silt.	60 356.2	34		
Very dense brown and gray fine to coarse Sand, trace small gravel and silt.	352.2 65	58 84		
Boring stopped by Inspector.				
WATER LEVEL 19.0				

H - STANDARD PENETRATION TEST NUMBER - BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140# WT. FALLING 30"

QU - UNCONFINED COMPRESSIVE STRENGTH
W - WATER CONTENT % OVER DRY WEIGHT

TYPE FAILURE
B - BULGE
I - SHEAR
E - ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

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

SHEET 222 OF 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	258
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

BORING No. S-139

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %	B
Ground Surface	417.3 0				
Cinders and Miscellaneous Fill	413.3	6			
Loose yellow and brown Silt, trace clay and very fine sand.	408.8	5	4	.8	24
		5		.8	30
		4		.7	27
		5	1.1		24
Loose to medium gray fine to coarse Sand, trace small gravel and silt.	398.8	15	5		27
		20			
Very loose to stiff yellow brown gray clayey Silt, trace fine Sand.	390.8	4	.9	22	
Medium brown very fine Sand, some silt.	391.3	17			
Medium gray fine Sand, trace silt.	378.3	14			
		30			
		19			
		15			
		9			
Loose gray very fine silty Sand	375.3	8			
		17			37
Medium dense gray (continued)		40			

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
	47			
very fine Sand, trace small gravel and silt.	50	47		
		46		
	55	45		
		34		
Dense gray fine to coarse Sand, trace small gravel and silt.	363.3 60	34		
		31		
Dense gray fine Sand, trace organic matter.	352.3 67	40		
Dense to very dense gray fine to coarse Sand, trace small gravel and silt.	338.0 81	41		
Boring stopped by Inspector.				
WATER LEVEL 41				

BORING No. S-140

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	416.8 0			
Wood, brick, limestone fragments and miscellaneous Fill	401.8	18		
		5		
		12		
		5		
		11		
		3		
Brown very fine silty Sand	400.8			
Soft gray clayey Silt	400.8	11	1.0	27
Loose brown Silt, trace clay	398.8	7		
Loose yellow and brown fine Sand, trace silt.	388.8	24		
		20		
		25	13	
		8		
Very loose brown silty very fine sand	385.3	30	4	
Loose gray fine sand, some silt.	381.3	35	8	
Loose dark gray silt, trace very fine sand.	375.3	40	6	
		9		
Medium dense gray fine (continued)		45	36	

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
	47			
to coarse Sand, trace silt.	50	70		
		22		
	363.8	38		
Dense gray fine to coarse Sand, trace small gravel and silt.	55	43		
		23		
	60	63		
		36		
	65	30		
		34		
	70	32		
	314.3	32		
Boring stopped by Inspector.				
WATER LEVEL 43.0				

BORING No. S-141

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	415.7 0			
Cinder, limestone, silt, sand & miscellaneous Fill	409.7	4		
		5		
Loose brown		8		
		10		
very fine Sand		9		
		15		
Silty Sand		9		
		20		
	392.7	9		
Dense yellow and brown fine Sand, some silty clay.	389.7	25	40	
Dense to medium brown fine to medium Sand, trace silt and organic matter noted.	382.7	30	14	
			21	
Medium dense brown and gray fine to coarse Sand, trace silt, some small to large gravel.	374.7	15	35	
			24	
		40	33	
Medium gray fine to coarse Sand, trace small gravel and silt.	369.7	45	28	
			20	

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Medium yellow & brown fine to coarse Sand, trace silt & Org. mat.	367.2	47		
		50	17	
Medium to very dense gray fine to coarse Sand, trace silt, clay and small gravel.		50	26	
		55	27	
	357.7	55	85	
			80	
Medium gray fine to coarse Sand, with small gravel and silt.		60	22	
Boring stopped by Inspector.	353.2		31	
WATER LEVEL 33.0				

N - STANDARD PENETRATION TEST NUMBER - BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140# WT. FALLING 30"

QU - UNCONFINED COMPRESSIVE STRENGTH
W - WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE
B - BULGE
S - SHEAR
E - ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

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

SHEET 223or241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.– 70	82-3HVB	ST. CLAIR	289	259
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

BORING No. S–148

IDENTIFICATION	ELEV. DEPTH	N BLOWS T./S.F.	QU	W %
Ground Surface	412.5 0			
Crushed limestone Fill	409.5	4		
Very loose brown very fine Sand, some silt.	403.5	5 4 4		
Loose to medium gray and brown very fine Sand, and Silt.	399.5	10 5 10		24
Medium brown	20	15 10 6 7		34
fine to coarse Sand,	25	7 12 28 30 26		22
trace silt.	369.0	35 26 40 40		18
Medium (continued)		45 21		

IDENTIFICATION	ELEV. DEPTH	N BLOWS T./S.F.	QU	W %
(continued)	47	12		
dense brown fine to medium Sand,	55	34 26 32		
trace silt.	356.0	24 28		
Medium gray fine to coarse Sand, trace silt.	347.0	60 26		
Dense gray fine to coarse Sand, some small gravel, trace silt.	332.5 82	65 39 39 36 55 27		41
organic matter noted.				
Boring stopped by Inspector.				

WATER LEVEL 36.0

BORING No. S–149

IDENTIFICATION	ELEV. DEPTH	N BLOWS T./S.F.	QU	W %
Ground Surface	413.8 0			
Top soil	413.0			
Sand, clay, and miscellaneous Fill	409.3	3		
Medium brown very fine silty Sand	405.8	5 11 11		
Medium brown very fine Sand and Silt	401.8	10 13 15		
Medium dense gray	25	15 16 14 12 9		
fine Sand, trace silt.	377.8	25 20 36 30 25 39 35 33		
Dense brown fine to coarse Sand, trace silt.	371.8	40 23		
Dense gray fine	45	16 17		
(continued)				

IDENTIFICATION	ELEV. DEPTH	N BLOWS T./S.F.	QU	W %
(continued)	47	26		
to coarse Sand, trace silt, some organic matter	55	42 37 37 27		
Boring stopped by Inspector.	353.8	60		58

WATER LEVEL 38.0

BORING No. S–150

IDENTIFICATION	ELEV. DEPTH	N BLOWS T./S.F.	QU	W %
Ground Surface	416.4 0			
Cinders, brick, clay, sand, concrete and miscellaneous Fill	401.4	8 5 15		
Loose brown very fine Sand and Silt	394.9	15 6 10 20 8		21
Medium dense brown and gray fine Sand, some silt, trace organic matter seams.	384.4	2 25 16 17 30 32		
Medium dense gray fine Sand, trace silt.	375.4	23 35 31 22 40 36		
Medium brown fine to coarse Sand, trace small (continued)		31 45 20		

IDENTIFICATION	ELEV. DEPTH	N BLOWS T./S.F.	QU	W %
(continued)	47	17		
gravel and silt.	50	23		
Dense brown fine to medium Sand, trace small gravel, organic matter noted.	364.9	40		
	56	57		
	356.4	36		
Boring stopped by Inspector	60	40		

WATER LEVEL 39.5

N – STANDARD PENETRATION TEST NUMBER – BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140 LBS. WT. FALLING 30"

QU – UNCONFINED COMPRESSIVE STRENGTH

W – WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE
B – BULGE
S – SHEAR
E – ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

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

SHEET 224or241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.- 70	82-3HVB	ST. CLAIR	289	260
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

BORING No. S-151

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	412.7	0		
Topsoil		2		
and		5	3	
Cinders				
Fill	404.2	4	1.5	30
Medium brown clay & Sand, trace silt.	398.7	10	12	4
Medium brown very fine sand, some clay and silt.	396.7	15	10	20
Medium gray		25	20	
medium			24	
sand,		30	20	
trace			24	
silt.		35	20	
	376.7			
Medium brown fine to coarse sand, trace silt, and small gravel.	366.7	40	27	17
(continued)				

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
	47	21		
Medium to v.dense gray fine to coarse Sand, some silt, trace small gravel.	50	21		
		62		
	55	33		
	350.2			
Medium gray, silty clay, trace very fine Sand.		11		
	60	6		
	351.2			
Dense gray fine to medium Sand, trace silt.		42		
	65	34		
	346.7			
Dense gray fine to medium Sand, trace silt and clay.		31		
	70	41		
		35		
	333.2			
Medium dense gray medium to coarse Sand, trace silt and small gravel.	75	59		
		23		
	80	50		
	331.7			
Very dense gray coarse Sand, trace silt, some small gravel.		76		
	329.2			
Medium dense gray medium to coarse Sand, trace silt and small gravel.	85	28		
		22		
	90	40		
	320.2			
Boring stopped by Inspector.		28		

WATER LEVEL 34.0

BORING No. S-152

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	413.8	0		
Cinders, brick, stone, sand and miscellaneous Fill	410.3	3		
Very loose brown clayey Silt,	5	4	1.0	29
	407.8			
stiff brown clayey Silt, trace fine sand.		7		
	404.3			
Loose brown very fine Sand, some silt.		9		
	400.3	10		
Medium brown fine Sand, trace silt, organic matter noted.		14		
	396.6	15		
Medium brown very fine silty Sand	394.8	11		
Medium brown very fine Sand some silt.	392.8	20	16	
Medium gray silty fine		22		
Sand	389.1	25	9	
Loose gray very fine sand, some silt, organic matter noted.	386.8		34	
Dense brown		30	30	
and			60	
gray				
fine		35	53	
Sand,				
trace		33		
silt.				
	373.8	40	19	
Dense gray fine Sand, trace silt, and organic matter.	371.3		37	
Medium gray fine Sand, trace silt.		45	25	
	367.8			
(continued)				

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Loose gray fine to coarse Sand, some silt, organic matter with decayed wood.	367	5		
	364.3	50		14
Medium gray fine to coarse Sand, trace silt and small gravel.		23		
	359	55		22
	357.0			
Medium gray fine Sand, and silt, organic matter noted.	354.8			29
Dense gray fine to coarse Sand, trace small gravel and silt.		60	50	
		38		
	65	38		
	346.3			19
Medium dense gray fine to coarse Sand, some small gravel, trace silt and organic matter noted.	70	26		
	341.3	75	35	
	336.3			22
Very dense gray fine to coarse Sand, and small gravel, trace silt.	80	22		
	331.3			70
Boring stopped by Inspector.		85		
	327			

WATER LEVEL 37

BORING No. S-153

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	411.6	0		
Miscellaneous Fill	407.6	5		
Loose brown clayey Silt, trace fine sand.	397.6	5	6	
		6		
		10	5	
		9		
Loose brown fine Sand, trace silt.	385.6	15	5	
		4		
Dense gray fine to coarse Sand, some small gravel, trace silt and organic matter noted.	375.6	20	9	
		8		
		25	14	
		29		
		75	35	
		43		
		15	31	
Dense brown fine to coarse Sand, trace small gravel, trace silt, & organic matter noted	367.6	40	45	18
Medium brown fine to coarse Sand, some small gravel, trace silt.	365.6	45		18
Medium gray fine Sand, trace silt.	362.6	47		20
Very dense gray fine to coarse Sand	360.6	50		97
Dense gray fine to coarse Sand, small gravel, trace silt and organic matter noted.	357.6			31
Medium (continued)		55		26

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
	56			
dense gray fine		13		
	60	22		
to coarse Sand, trace small gravel and silt.		24		
	65	27		
		30		
	70	22		
	339.6			
Medium dense gray fine to coarse Sand, some small gravel, trace silt and organic matter noted.		29		
	75	28		
		86		
	80	67		
		16		
	85	19		
		23		
	90	23		
		30		
		19		
		26		
Boring stopped by Inspector.	311.6	100		41

Note- 3" Boulder

WATER LEVEL 34

H - STANDARD PENETRATION TEST NUMBER - BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140# WT. FALLING 30"

QU - UNCONFINED COMPRESSIVE STRENGTH
W - WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE
B - BULGE
S - SHEAR
E - ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

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

SHEET 225 OF 241

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.- 70	82-3HVB	ST. CLAIR	489	261
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

BORING No. S-154

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground surface	412.5			
Cinders, brick, concrete, and miscellaneous fill	411.7			
Soft brown sandy silty loam	409.0	4		
Medium brown clayey silt, trace fine sand	406.5	7		
Medium brown clayey silt, trace fine sand	403.5	7	2.0	27
Medium		14		
brown		24		
very		11		
fine		8		
sand,		10		
some		11		
silt,		16		
with		24		
some		29		
clay	379.5	35		
Medium brown fine to medium sand, trace silt	374.5	18		
Medium		40		
gray		17		
fine		17		
to		45	11	
coarse (continued)				

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Sand,	347	24		
trace		50	28	
silt.	339.5			26
Dense gray fine to medium sand, little silt, trace clay.	333.0	55		38
Medium gray fine to medium sand, trace silt.	149.0	60		25
Medium		45		27
gray				
coarse				20
sand,		70		16
trace				14
silt				
and		75		18
small				
gravel.	334.0			31
Very dense gray fine to medium sand, trace silt	330.0	80	63	62
Boring stopped by Inspector.				
WATER LEVEL 3m.+.				

BORING No. S-155

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	411.2 0			
Cinders, bricks, concrete, and miscellaneous fill	409.2			
Medium brown clayey silt, trace very fine sand.	406.7	5	15	2.5 18 24
Medium		11		
brown		10	26	
fine		14		
to		15	11	
coarse		11		
sand,		20	9	
some		11		
small		10	11	
gravel,		25	19	
some		17		
silt.		10	11	
	379.2	13		
Dense brown medium sand, trace silt.	377.2	35	33	
Dense gray medium sand, trace silt	371.2	40	33	
Medium gray fine to coarse sand, (continued)		45	14	25

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
trace silt.	364.2	47		11
Medium gray medium to coarse sand, some small gravel trace silt	358.2	50		25
Medium		55		28
gray				46
fine				60
to				24
coarse				23
Sand,		65		20
some		70		17
small				9
gravel	339.7			11
Medium gray coarse sand, some gravel	337.2	75		22
Medium gray medium sand.	334.2			22
Very dense gray medium sand, and some gravel with trace silt.	332.2	80		109
Dense				49
gray				
coarse		85		52
Sand,				
and				54
small		90		48
gravel,				
trace				44
silt.	318.9	95		25
Boring stopped by Inspector.				
WATER LEVEL 16.0				

BORING No. S-156

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	412.9 0			
Topsoil, cinders, and miscellaneous Fill	409.4	6		
Medium brown clay, some silt, trace very fine sand.	404.4	5	8	2.0 21
Medium		8		
grey		10	20	
very		26		
fine		15	10	
Sand,		8		
some		20	15	
silt,		11		
	372.4	25	13	
Medium dense gray fine Sand, trace silt, some small gravel. (continued)		40	37	17
		45	13	

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
gravel.	361.9	47	9	
Medium gray fine to coarse Sand, trace silt.	356.9	50	20	
		55	18	
Medium gray coarse Sand, little silt.	354.4		27	
Dense gray fine Sand, trace silt.	351.9	60	38	
Medium			26	
gray				
medium		65	16	
to				
coarse				
Sand,			29	
trace				
silt,		70	40	
some				
small			24	
gravel.	338.9			
Dense gray fine to medium Sand, trace silt.	338.9	80	54	
			28	
			60	
Boring stopped by Inspector.				
WATER LEVEL 28.5				

H - STANDARD PENETRATION TEST NUMBER - BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140# WT. FALLING 30"

QU - UNCONFINED COMPRESSIVE STRENGTH
W - WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE
B - BULGE
S - SHEAR
E - ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

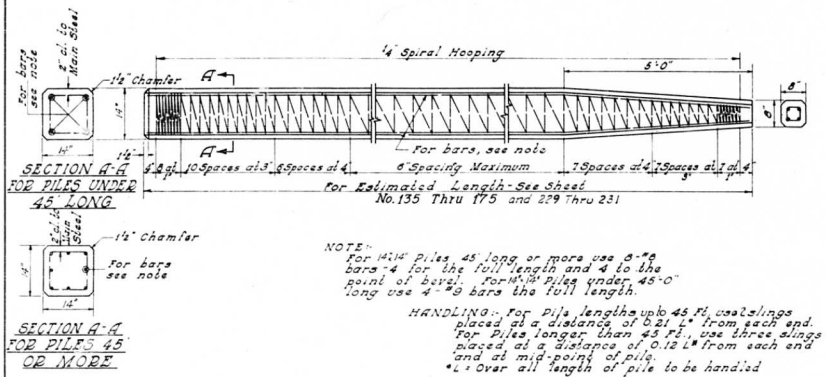
BORING LOGS

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

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

SHEET 226 OF 241

FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I—70	82—3HVB	ST. CLAIR	283	262
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



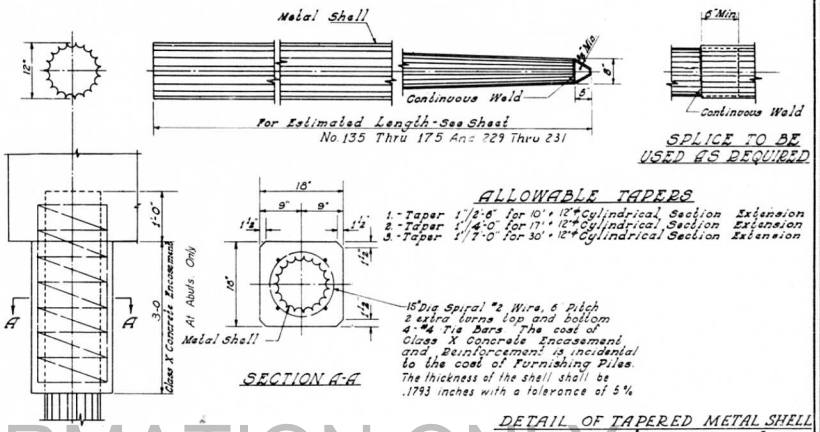
SECTION A-A
FOR PILES UNDER 45' LONG

SECTION A-A
FOR PILES 45' OR MORE

NOTE:
For 14"x14" Piles 45' long or more use 8-#9 bars - 4 for the full length and 4 to the point of bevel. For 14"x14" Piles under 45'-0" long use 4-#9 bars the full length.

HANDLING:- For Pile lengths up to 45 Ft. use slings placed at a distance of 0.21 L* from each end. For Piles longer than 45 Ft. use three slings placed at a distance of 0.12 L* from each end and at mid-point of pile.
*L = Over all length of pile to be handled

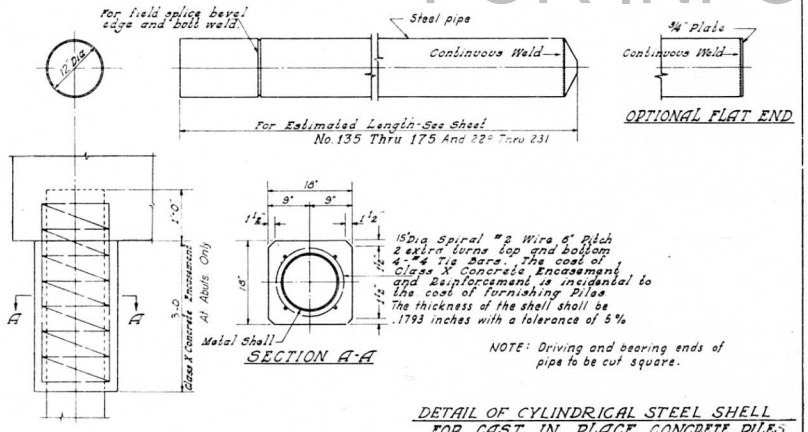
DETAIL OF PRECAST CONCRETE PILES



ALLOWABLE TAPERS

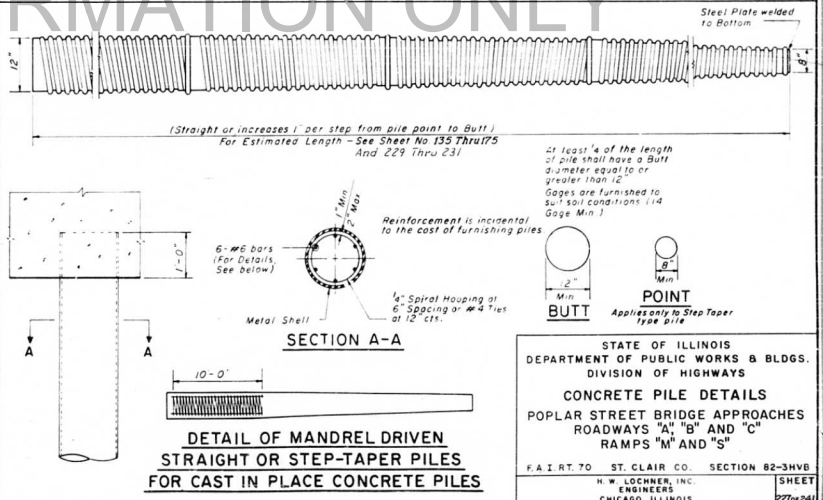
1. - Taper 1"/2'-6" for 10' + 12"ø Cylindrical Section Extension
2. - Taper 1"/4'-0" for 17' + 12"ø Cylindrical Section Extension
3. - Taper 1"/7'-0" for 30' + 12"ø Cylindrical Section Extension

DETAIL OF TAPERED METAL SHELL FOR CAST IN PLACE CONC. PILES.



NOTE: Driving and bearing ends of pipe to be cut square.

DETAIL OF CYLINDRICAL STEEL SHELL FOR CAST IN PLACE CONCRETE PILES



DETAIL OF MANDREL DRIVEN STRAIGHT OR STEP-TAPER PILES FOR CAST IN PLACE CONCRETE PILES

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

CONCRETE PILE DETAILS
POPLAR STREET BRIDGE APPROACHES
ROADWAYS "A", "B" AND "C"
RAMPS "M" AND "S"

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

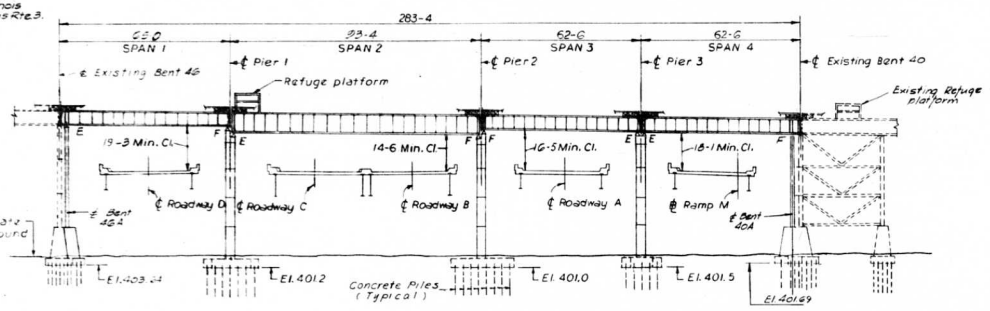
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 227 of 241

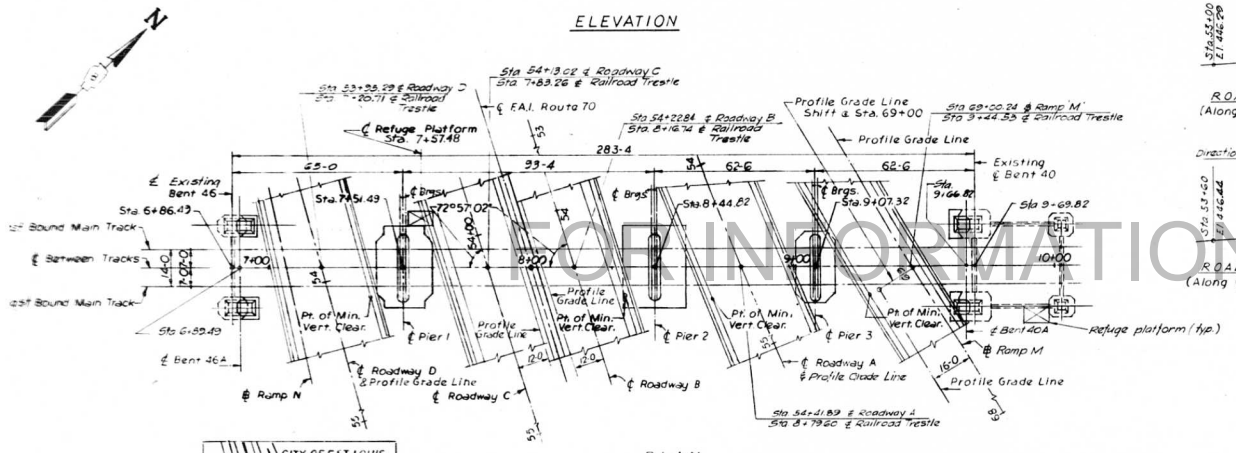
7/6/65 - Plan added note including enclosement of piles

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	228
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

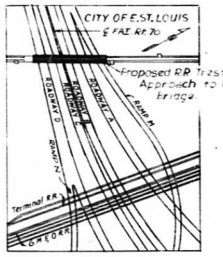
BILL OF MATERIAL-RAILROAD TRESTLE ONLY	SECTION 82-3HVB			
Item	Unit	Super-Structure	Sub-Structure	Total
Class X Concrete	Cu. Yds.	—	1083	1083
Treated Timber	F.B.M.	50,000	—	50,000
Hardware	Lbs.	2500	—	2500
Furnishing & Erecting Structural Steel	Lbs.	788,900	—	788,900
Reinforcement bars	Lbs.	—	81,940	81,940
Driving Concrete Piles	Lin. Ft.	—	9158	9158
Furnishing Concrete Piles	Lin. Ft.	—	9158	9158
Test Pilas Concrete	Ea.	—	3	3
Wrought Iron Pipe Drain System	Lump Sum	—	—	1
Expansion bolts	Ea.	—	118	118
Removal & Replacement of				
Existing Track Facilities	Lump Sum	1	—	1



ELEVATION



PLAN



LOCATION PLAN

Direction of Traffic
Sta. 53+00 El. 446.29
-0.5%
Sta. 55+00 El. 447.29
℄ Railroad Trestle

ROADWAY A
(Along ℄ Roadway A)

Direction of Traffic
Sta. 53+60 El. 447.19
-0.54%
Sta. 55+60 El. 448.27
℄ Railroad Trestle

ROADWAY B
(Along South Edge of Pav't.)

Direction of Traffic
Sta. 53+60 El. 447.19
+0.54%
Sta. 55+60 El. 448.27
℄ Railroad Trestle

ROADWAY C
(Along N. Edge of Pav't.)

Direction of Traffic
Sta. 53+60 El. 446.44
+0.5%
Sta. 55+60 El. 447.44
℄ Railroad Trestle

ROADWAY D
(Along ℄ Roadway D)

Direction of Traffic
Sta. 69+00
-5.000%
P.I. Sta. 68+68 El. 442.10 LVC 494'
+1.565%
Sta. 71+18 El. 444.68
+1.565%
Sta. 66+18 El. 434.45
℄ Railroad Trestle RAMP M

(At 16.0 Left of ℄ Ramp M to Sta. 69+00 and at ℄ Ramp M beyond).

Sta. 91+46.48 El. 479.26
1.09%
Sta. 94+46.48 El. 476.76
Top of Rail
Limits of Construction

RAILROAD TRESTLE

P R O F I L E S

DESIGN STRESSES
fc = 1,000 psi (Substructure)
fs = 20,000 psi (Reinforcing)
fs = 20,000 psi Structural Steel (A-36)
n = 10
v = 75 psi. (Footing)
Loading: Cooper E-72

Notes:
1. Design of all railroad trestle elements is in accordance with current A.R.E.A. Specifications for steel railroad Bridges.
2. All cross reference sheet numbers shown on the plans are the numbers located in the lower right hand corner of each Sheet.
3. For further information and general notes see Sheet No. 1

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

GENERAL PLAN

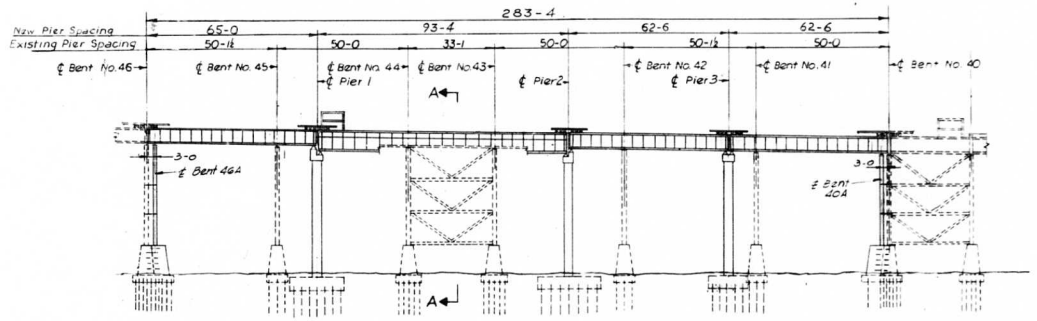
RAILROAD TRESTLE
NORTH APPROACH TO MAC ARTHUR BRIDGE

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

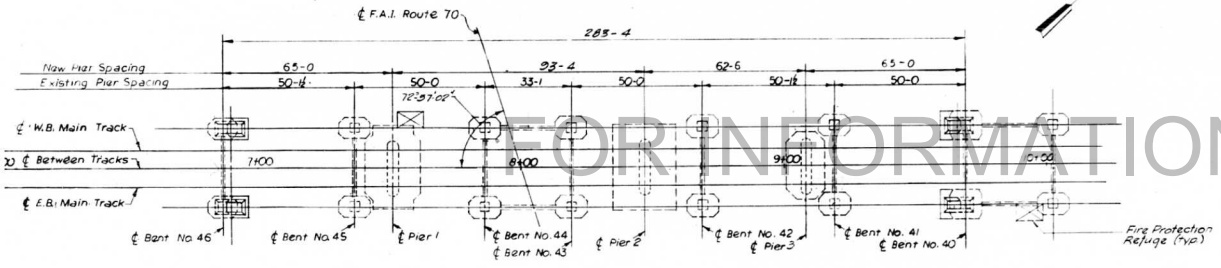
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 228 of 241

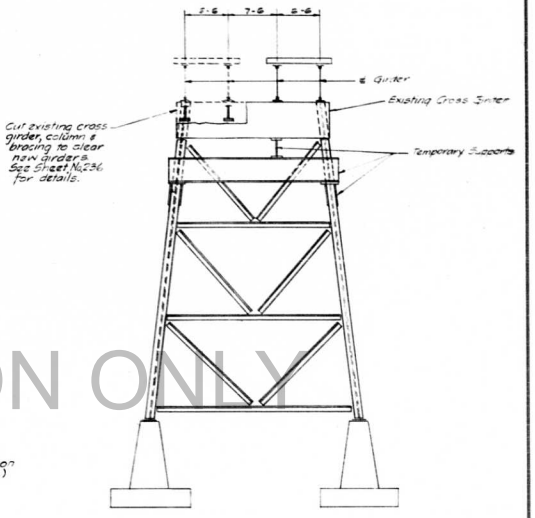
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I – 70	82–3HVB	ST. CLAIR	289	264
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	



ELEVATION



PLAN



SECTION A-A

SEQUENCE

1. Construct new Piers 1, 2 & 3 and Bents 46A & 40A
2. Erect temporary supports at Bents 43 & 44 as shown in Section A-A and Sheet No. 236
3. Remove traffic from E. Bound Main Track. Maintain traffic on W. Bound Main Track. (The work on trestle shall be continuous once it is started in order to avoid excessive length of usage of one track only. Also every effort shall be made to complete the track work as early as possible after the completion of the steel.)
4. Cut existing cross girder, column & bracing on E. Bound Main Track between Piers 1 & 2 as required to permit erection of new 96" web girders.
5. Erect new girders for E. Bound Main Track between Bent 46 & Bent 40. Erect Deck
6. Move traffic from W. Bound Main Track to E. Bound Main Track. Then remove existing steel within the limits of the improvement.
7. Repeat Step 5 for W. Bound Main Track.

NED BY C.D
N BY V.V.T
CED BY O.B
OVED BY C.A.

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

MODIFICATION OF EXISTING STRUCTURE

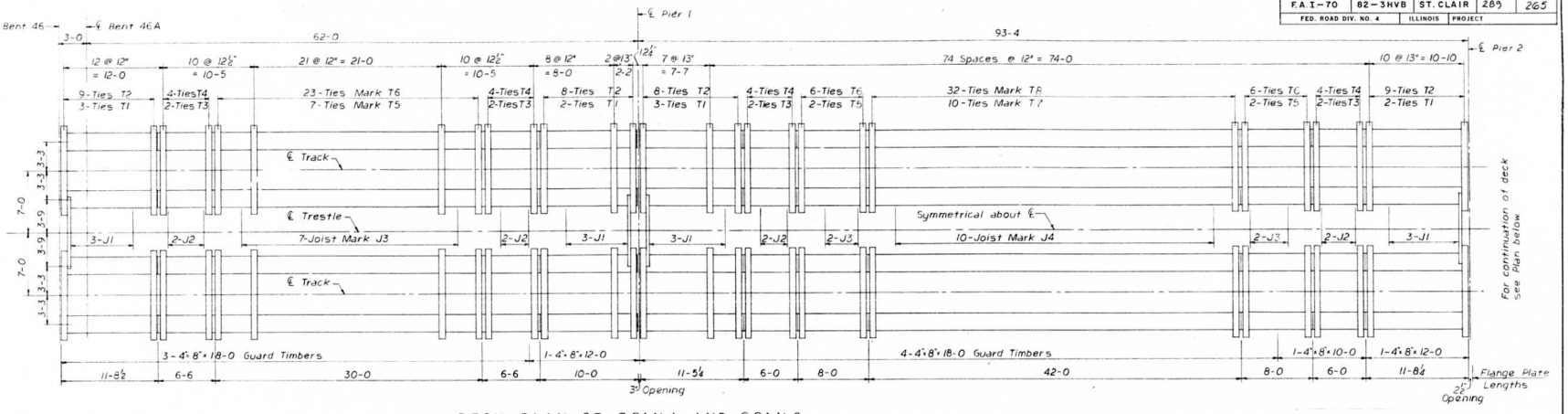
RAILROAD TRESTLE
NORTH APPROACH TO MAC ARTHUR BRIDGE

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

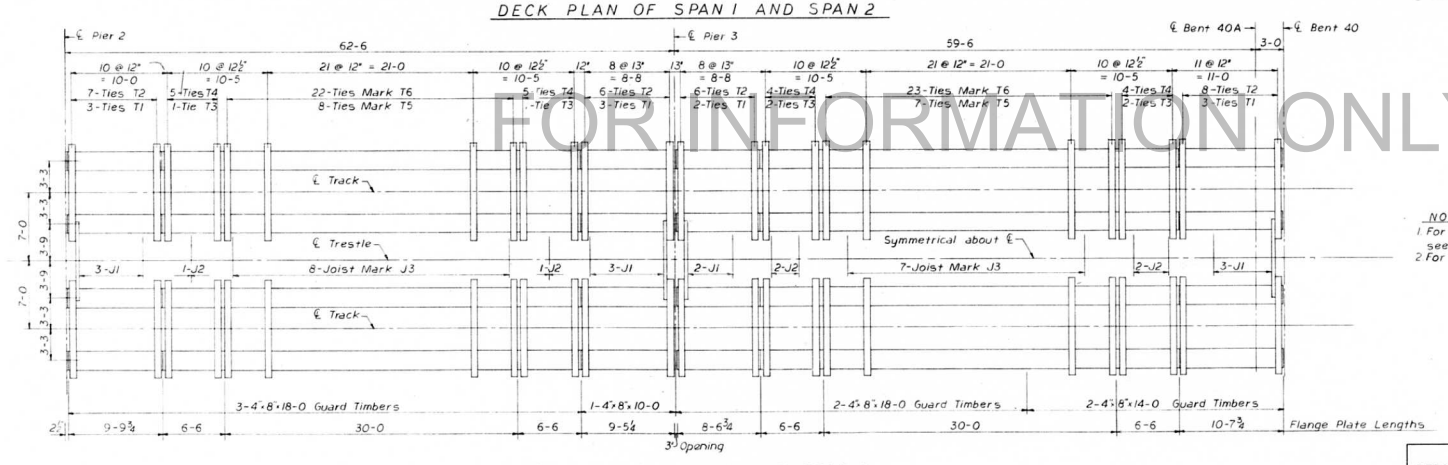
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 239 OF 289

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I-70	82-3HVB	ST. CLAIR	289	265
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



DECK PLAN OF SPAN 1 AND SPAN 2



DECK PLAN OF SPAN 3 AND SPAN 4

NOTES
1. For Tie and Joist Details and Deck Section see Sheet No. 231.
2. For Framing Plan see Sheet No. 232.

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

DECK PLAN

RAILROAD TRESTLE
NORTH APPROACH TO MACARTHUR BRIDGE

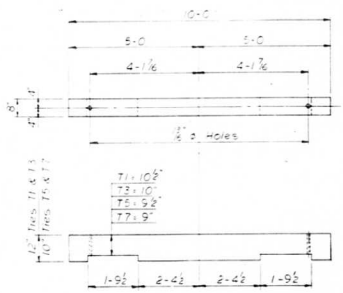
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

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

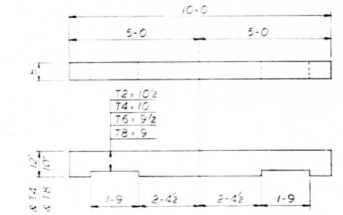
SHEET 230 OF 241

SIGNED BY C.D.
DWN BY D.C.F.
CKED BY L.H.W.
ROVED BY K.A.

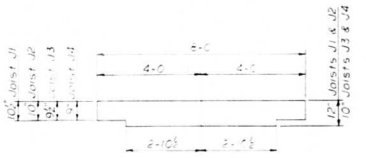
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I—70	82—3HVB	ST. CLAIR	289	266
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



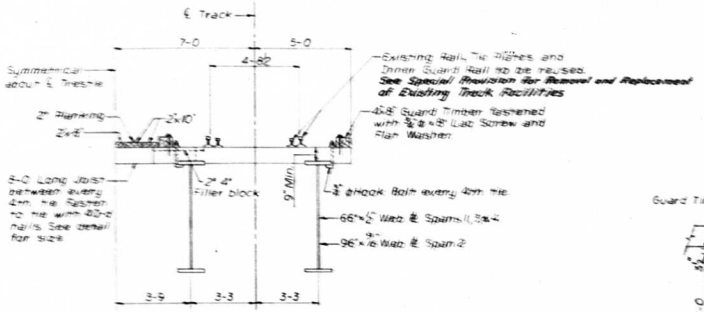
TIE DETAILS T1-T3-T5-T7



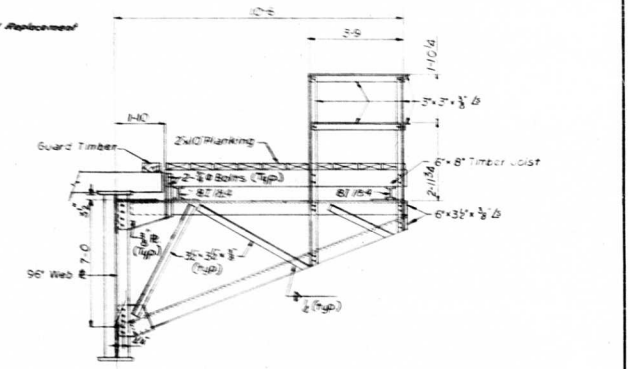
TIE DETAILS T2-T4-T6-T8



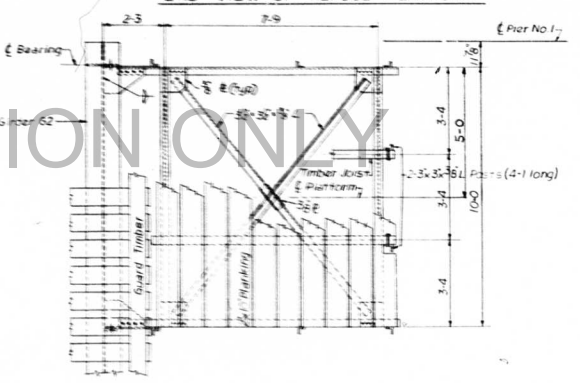
JOIST DETAILS J1-J2-J3-J4



TYPICAL SECTION THRU DECK



END VIEW OF REFUGE PLATFORM



PLAN OF REFUGE PLATFORM

BILL OF MATERIAL

No. Req'd.	SIZE	LENGTH	DESCRIPTION
42	6"x12"	10'-0"	Ties T1
122	6"x12"	"	" T2 } SIZE to 11¾"x7½"
28	6"x12"	"	" T3
68	6"x12"	"	" T4
52	6"x12"	"	" T5
160	6"x10"	"	" T6
20	6"x10"	"	" T7 } SIZE to 9¾"x7½"
64	6"x10"	10'-0"	" T8
23	12"x12"	20'-0"	Joists J1
14	12"x12"	16'-0"	Joists J2 } SIZE to 11¾"x 34"
24	12"x10"	"	Joists J3
10	12"x10"	8'-0"	Joists J4 } SIZE to 9¾"x 34"
48	4"x8"	16'-0"	Guard Timber
8	"	14'-0"	" "
8	"	12'-0"	" "
8	4"x6"	10'-0"	" "
7	2"x10"	16'-0"	Deck Plank
10	2"x10"	10'-0"	Plank for Refuge Platform
4	6"x6"	12'-0"	Joist " " "
16	2"x6"	16'-0"	Deck Plank
430	2"x4"	2'-6"	Filler Blocks
284	⅝" ø	4"	Hook Bolt with nut
284	⅝" ø		Lock Washers for ⅝" ø Bolt
284	⅝" ø		O.S. Washers for ⅝" ø Bolt
1112	⅝" ø	8"	Lag Screws
1112	⅝" ø		Flat Washers for ⅝" ø Lag Screws
300 Lb.	40-d		Common Wire Nails
16	⅞" ø	3'	Bolts for Refuge Platform
16	⅞" ø		Flat washers for ⅞" ø Bolts

NOTES:

1.- All ties and joist to be pretreated per detail before being given preservative treatment.

2.- All guard timbers to be S4S and squared on one end only before being given preservative treatment. They shall be cut to length and drilled for fastening in the field.

3.- All deck plank to be S1S1E before being given preservative treatment.

4.- For Deck Plan see Sh. No. 230.

5.- For location of Refuge Platform see Sh. No. 232.

6.- The timber shall be treated in accordance with Article 1812.02 to 1812.03, inclusive of the Standard Specifications.

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

DECK DETAILS

RAILROAD TRESTLE
NORTH APPROACH TO MACARTHUR BRIDGE

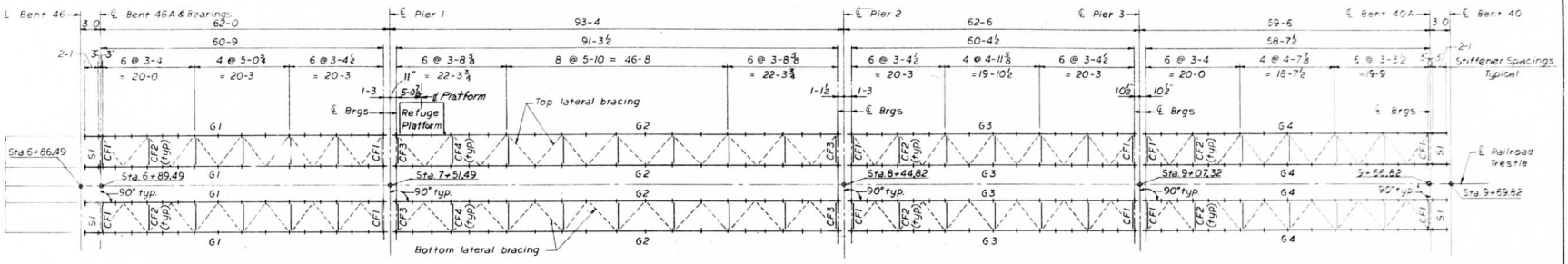
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

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

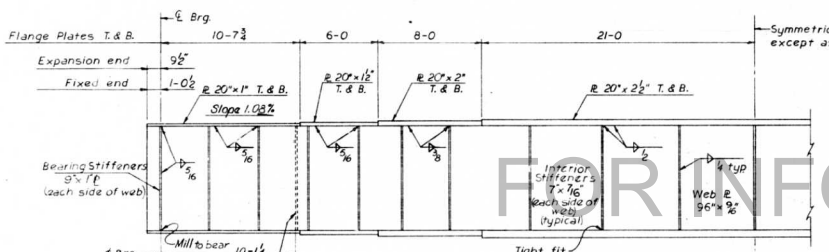
SHEET 231 OF 241

D BY C.D.
BY D.C.F.
D BY L.H.W.
D BY K.Z.

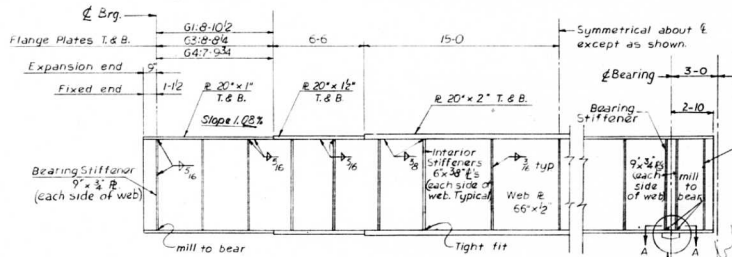
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I-70	82-3HVB	ST. CLAIR	289	267
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



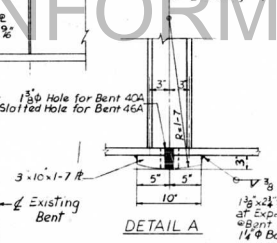
FRAMING PLAN

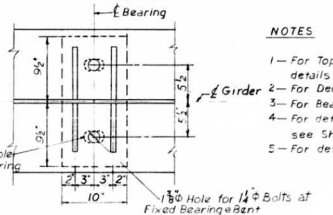


GIRDER G2



GIRDER G1-G3-G4





DESIGN DATA

ITEM	SPAN 1		SPAN 2		SPAN 3		SPAN 4	
	55P1 Moment Ft Kips	Max. Shear Kips	55P2 Moment Ft Kips	Max. Shear Kips	55P3 Moment Ft Kips	Max. Shear Kips	55P4 Moment Ft Kips	Max. Shear Kips
DL.	346	26	1040	46	341	23	324	24
LL.	2380	193	4940	250	2360	178	2240	187
I	1620	129	2900	147	1,610	122	1530	127
TOTAL	4346	348	8880	443	4,311	323	4094	338
SECTION MOD. in³ Required	2700		5410		2672		2540	
SECTION MOD. in³ Furnished	2990		5620		2993		2990	
WEB AREA in² Required	27.8		55.4		27.5		27.0	
WEB AREA in² Furnished	33.0		540		33.0		33.0	

NOTES

1— For Top and Bottom Lateral Bracing and Crossframe details see Sh. No. 233
2— For Deck Plan and details see Sh. No. 230 & 231
3— For Bearing details see Sh. No. 235
4— For details of Bents 40A and 46A see Sh. No. 237
5— For details of Refuge Platform see Sh. No. 231

BILL OF MATERIAL

ITEM	UNIT	TOTAL	REMARKS
Furnishing & Erecting Structural Steel	Lb.	788,900	Includes Estimated Weight of 42,013 lbs. for Bearing Assemblies with lead plates and bolts and Estimated Weight of 54152 lbs. for 14" W.I. Protection Plates.
Wrought Iron Pipe Drain System	Lump Sum	1	Includes cost of all 6" ϕ W.I. Pipes and Fittings.

Existing Steel, to be removed as shown on Sheet No. 229, is to become the property of the contractor and the salvage value is to be reflected in the bid price for Furnishing & Erecting Structural Steel.

DRAWN BY C.D.
TRACED BY D.C.F.
CHECKED BY O.P.
APPROVED BY K.A.

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

FRAMING PLAN AND GIRDER DETAILS

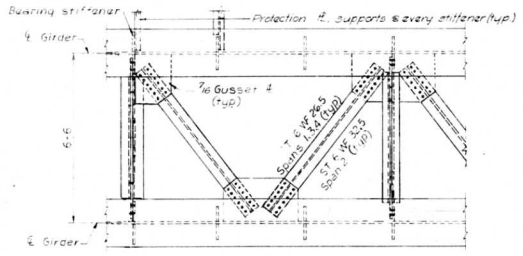
RAILROAD TRESTLE
NORTH APPROACH TO MACARTHUR BRIDGE

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

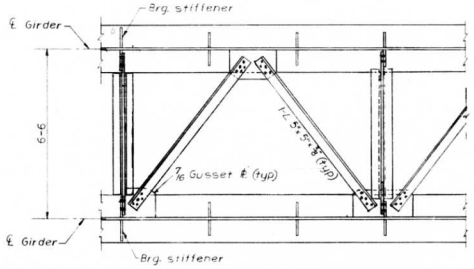
H. W. LOCHNER, INC. ENGINEERS CHICAGO, ILLINOIS

SHEET 232 OF 241

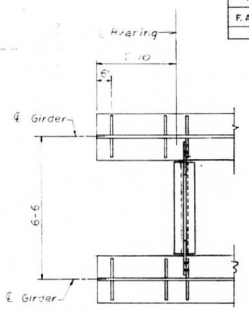
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. – 70	82 – 3HVB	ST. CLAIR	283	268
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



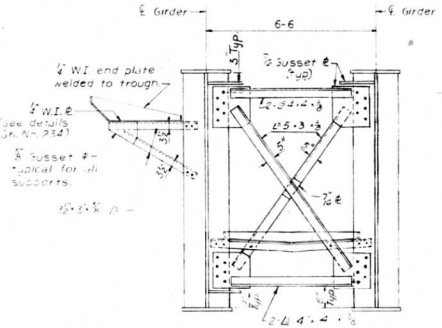
TOP LATERAL BRACING



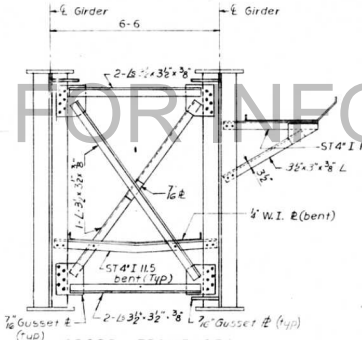
BOTTOM LATERAL BRACING



END DETAILS AT BENTS 40A & 46A

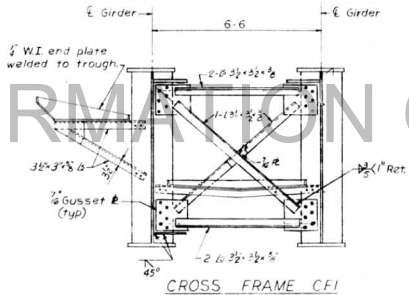


CROSS FRAME CF3

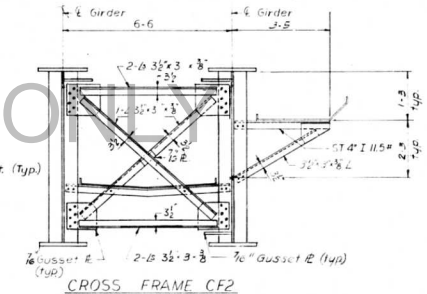


CROSS FRAME CF4

Note:
Clip All Stiffeners And Connection Plates ¾" x ¾" At Corners To Clear Welding Of Flange To Web.



CROSS FRAME CF1



CROSS FRAME CF2

NOTES

1 – For Framing Plan and Cross Frame locations, see Sh. No. 232
2 – For 4" W.I. Protection Plate details and location of its supports see Sheet No. 234
3 All fillet welds shall be 7/16" except as shown.

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

CROSS FRAME AND LATERAL BRACING DETAILS

RAILROAD TRESTLE
NORTH APPROACH TO MAC ARTHUR BRIDGE

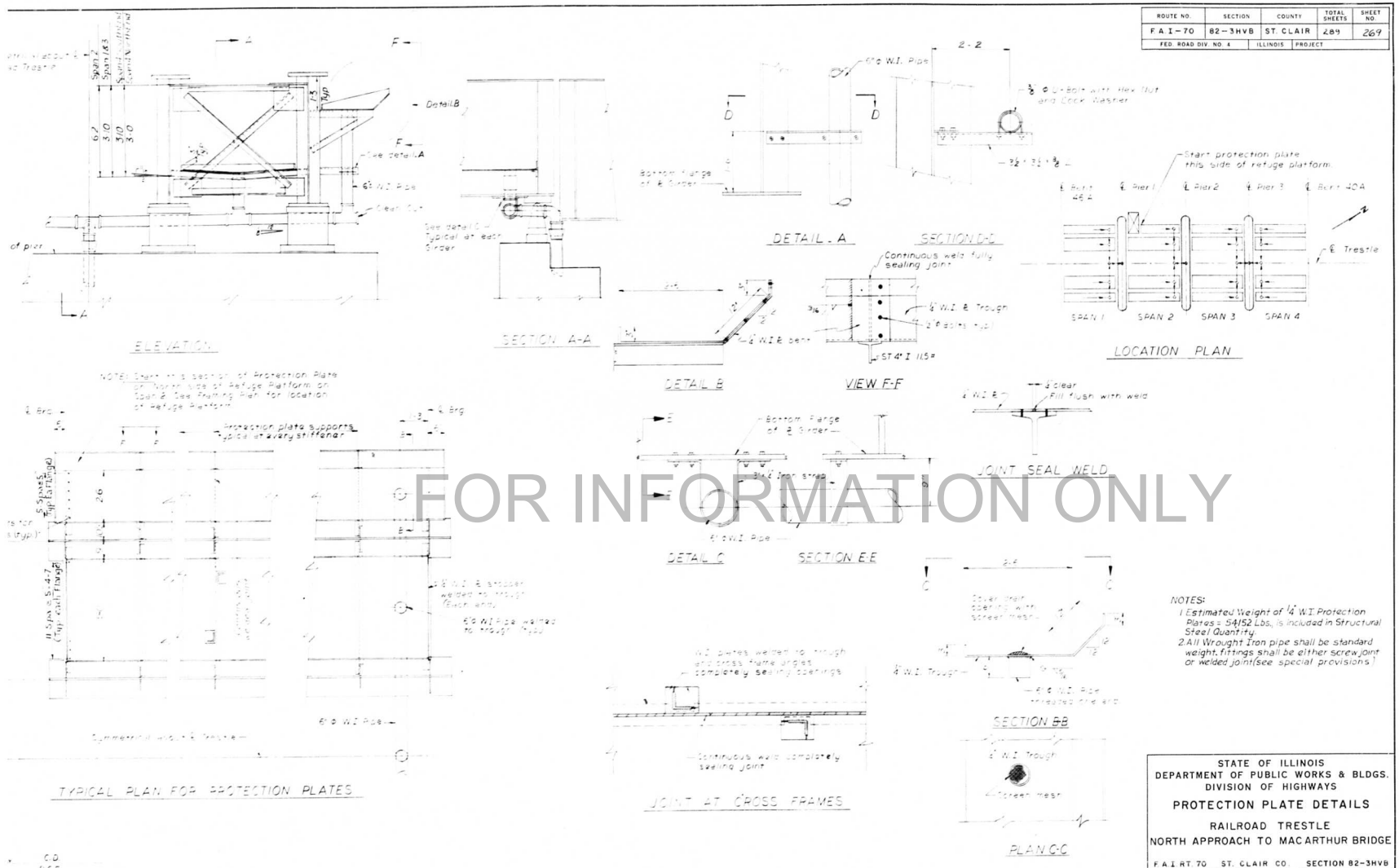
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

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

SHEET 233 OF 241

DESIGNED BY	C.D.
DRAWN BY	D.C.F.
CHECKED BY	O.P.
APPROVED BY	K.A.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F A I – 70	82 – 3HVB	ST. CLAIR	289	269
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	



NOTES:
1. Estimated Weight of 1/4" W.I. Protection Plates = 54152 Lbs., is included in Structural Steel Quantity.
2. All Wrought Iron pipe shall be standard weight, fittings shall be either screw joint or welded joint (see special provisions)

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

PROTECTION PLATE DETAILS

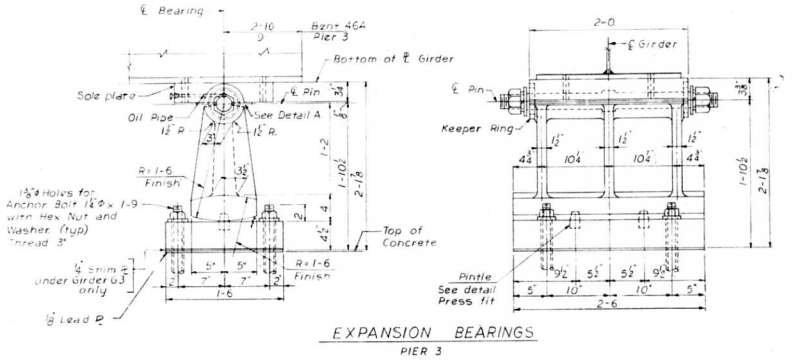
RAILROAD TRESTLE
NORTH APPROACH TO MAC ARTHUR BRIDGE

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

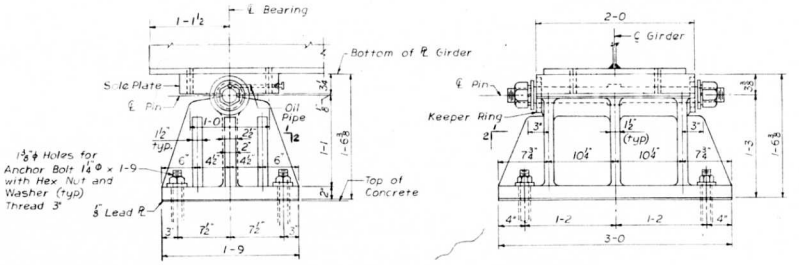
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 234 OF 241

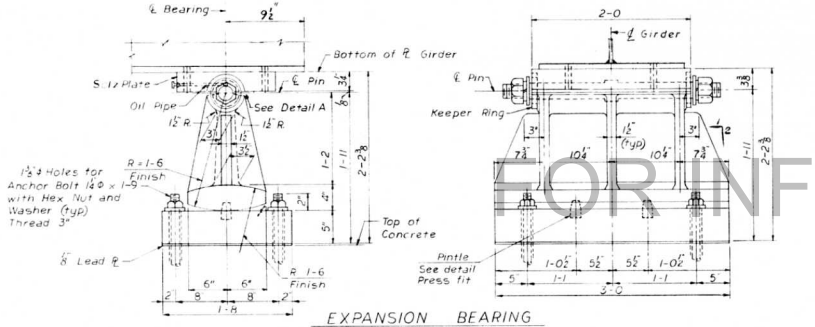
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.–70	82–3HVB	ST. CLAIR	289	270
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



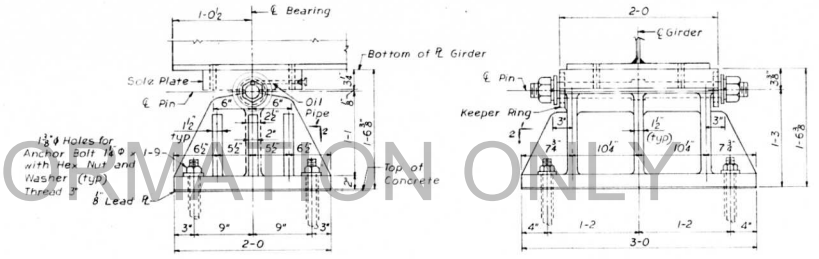
EXPANSION BEARINGS
PIER 3



FIXED BEARINGS
PIER 1 & 2
(Except Girder G2)



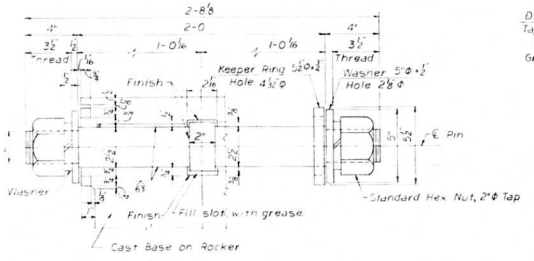
EXPANSION BEARING
PIER 1



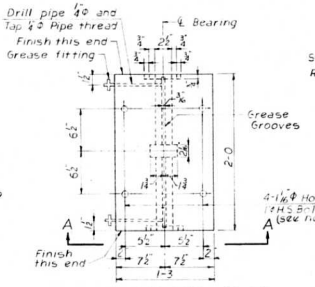
FIXED BEARING
PIER 2 - Girder G2

NOTES

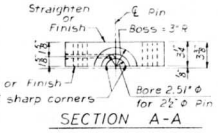
1. For reactions see Sheet No. 232
2. For General Notes see Sheet 228
3. All steel castings shall comply with A.S.T.M. Designation A 27 Grade 65-35 Full annealed
4. All fillets ¼" unless otherwise noted
5. The HHS Bolts to be bearing type (threads to be excluded from the contact surfaces)



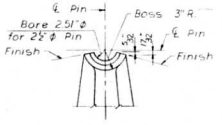
PIN DETAIL



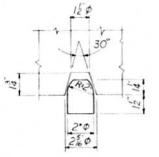
SOLE PLATE PLAN
TYPICAL



SECTION A-A



DETAIL A



PINTLE DETAIL

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

BEARING DETAILS

RAILROAD TRESTLE
NORTH APPROACH TO MAC ARTHUR BRIDGE

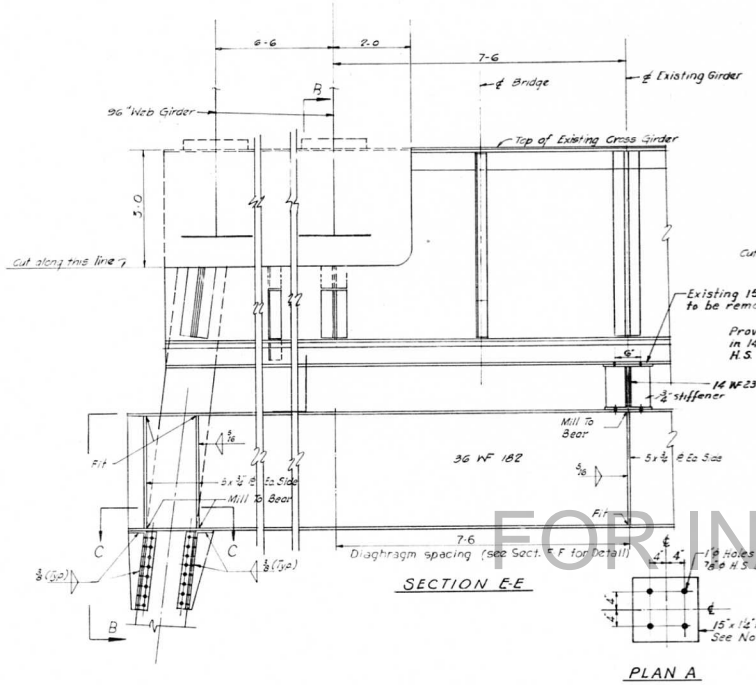
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

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

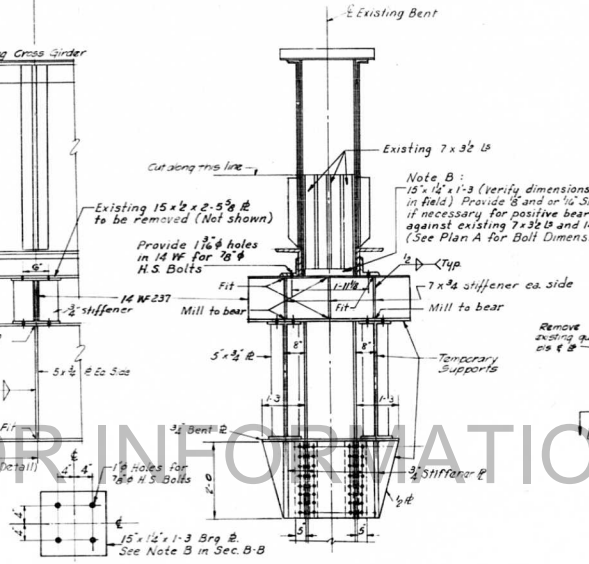
SHEET 235 OF 241

D BY	C.D.
K BY	D.C.F.
D BY	Q.P.
ED BY	K.A.

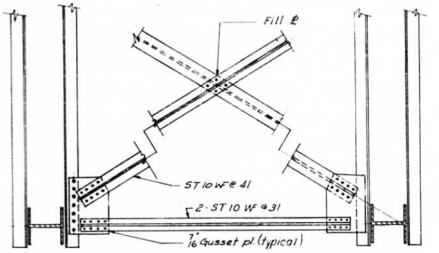
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	271
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



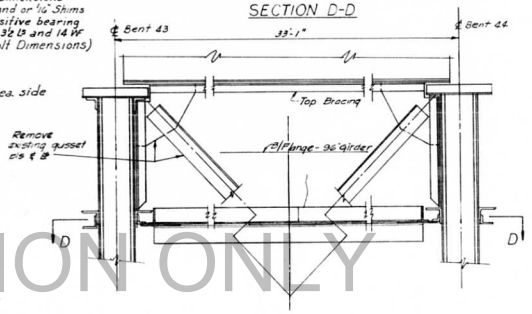
SECTION E-E



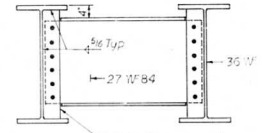
PLAN A



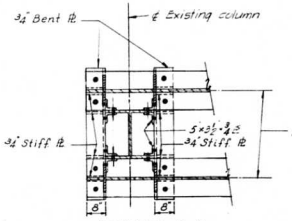
SECTION D-D



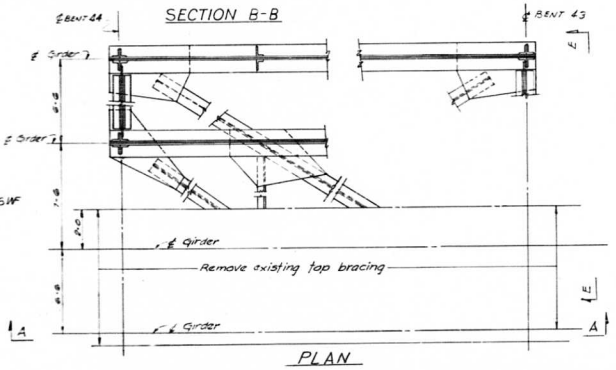
SECTION A-A



SECTION-F-F



SECTION C-C



PLAN

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

MODIFICATION OF BENTS 43 AND 44

RAILROAD TRESTLE
NORTH APPROACH TO MAC ARTHUR BRIDGE

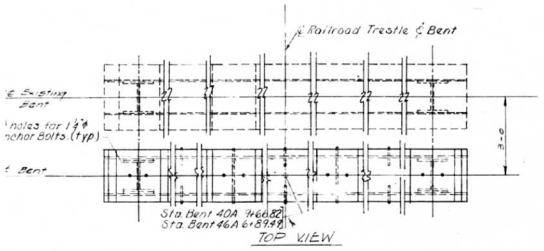
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

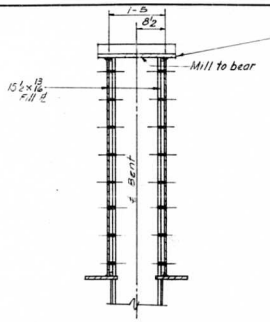
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

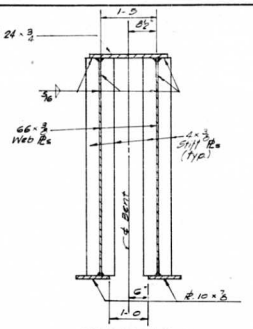
SHEET 236 OF 241

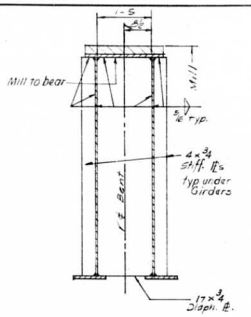
SIGNED BY C.D
AWN BY K.T.
ECKED BY C.D
PROVED BY K.A.

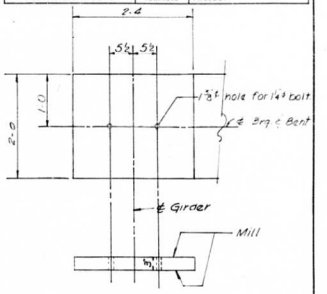
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	272
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

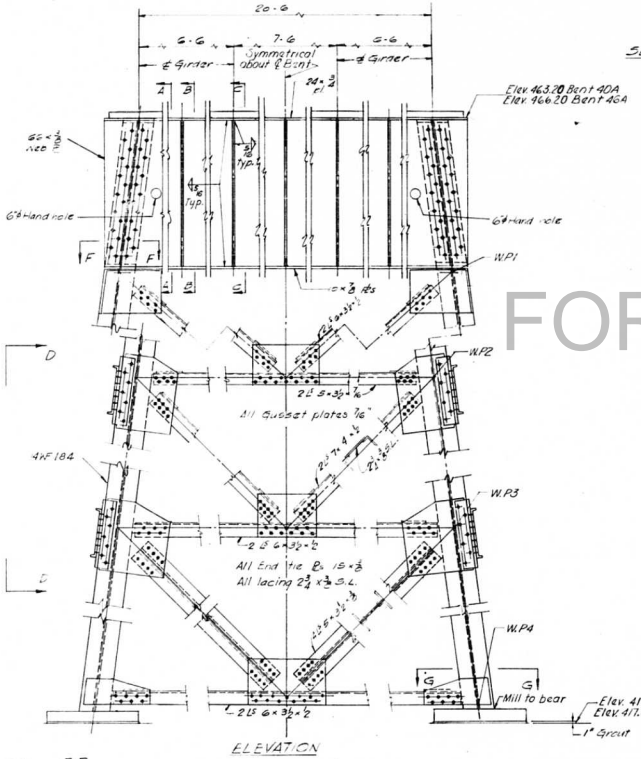


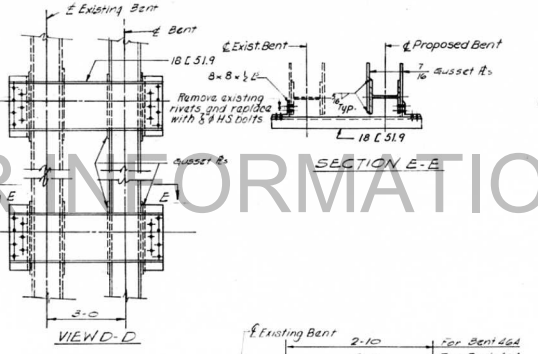


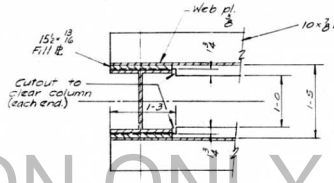


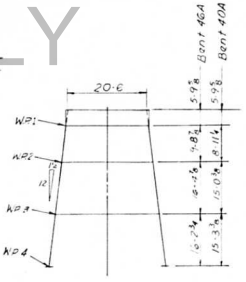




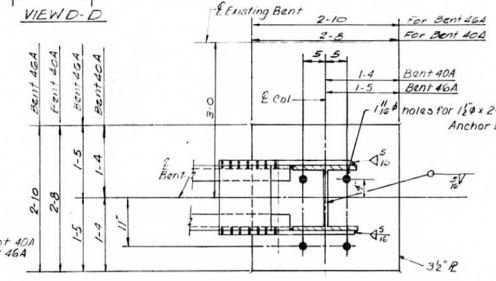








Note:
Fabricator shall field check dimensions for tying to existing bent before fabrication.



Note:
For girder bearing detail see Sheet No. 232

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

BENTS 40A AND 46A

RAILROAD TRESTLE
NORTH APPROACH TO MAC ARTHUR BRIDGE

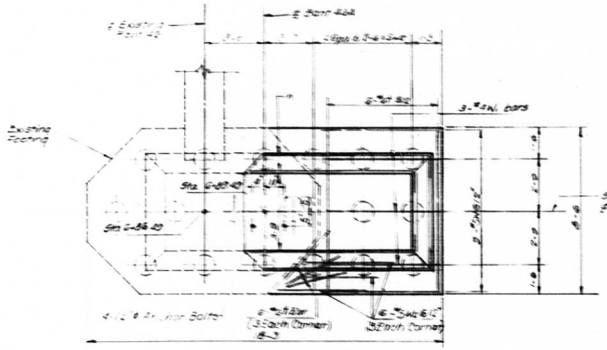
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

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

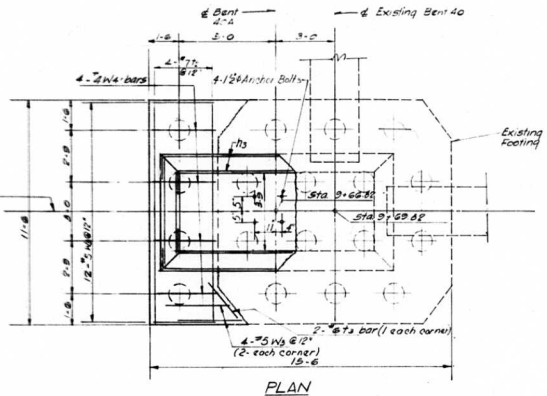
SHEET 237 OF 241

ED BY CD
BY IT
ED BY CD TOP
VED BY KL

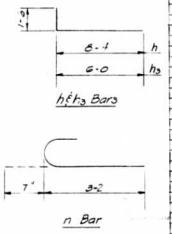
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I.-70	82-3HVB	ST. CLAIR	289	273
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



PLAN



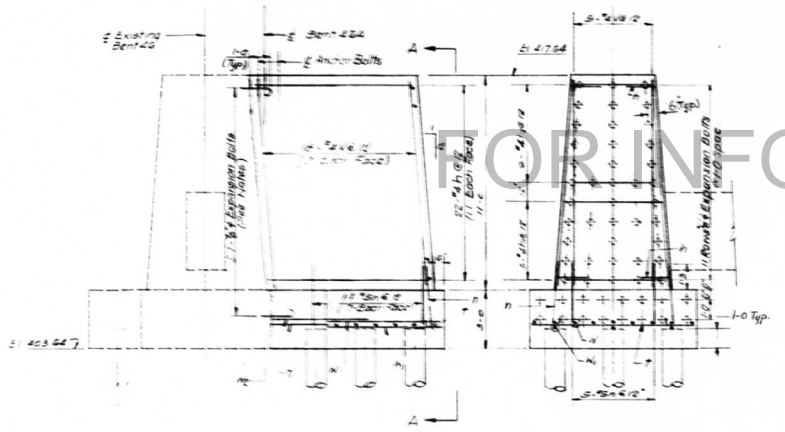
PLAN

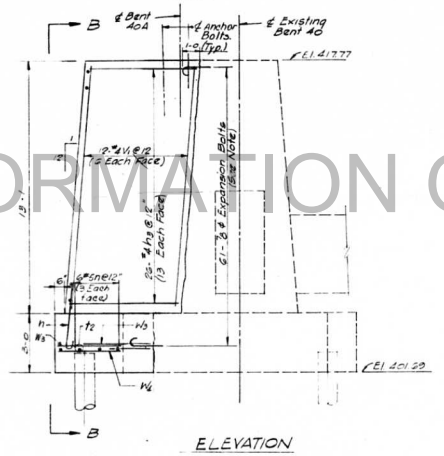


BILL OF MATERIAL

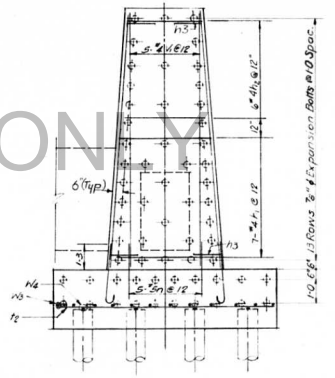
BAR	No.	SIZE	LENGTH	SHAPE
h	28	#8	7-10	L
h1	12	#7	4-5	—
h2	12	#7	3-5	—
h3	26	#4	7-6	L
n	30	#7	3-9	C
t	6	#6	8-2	—
t1	6	#6	3-6	—
t2	4	#7	11-8	—
t3	2	#6	3-0	—
V	23	#4	10-10	—
V1	17	#4	12-11	—
W	3	#5	5-11	—
W1	2	#4	5-8	—
W2	6	#6	4-6	—
W3	16	#5	3-2	—
W4	4	#4	3-0	—

ITEM	UNIT	TOTAL
Struc. Concrete	Cu Yds	416
Reinforcement Bars	Lbs	1100
Concrete Piles	Lin Ft	364
Expansion Bolts	Each	118





ELEVATION



VIEW B-B

PILE DATA

TYPE	Concrete piles
CAPACITY	35 Tons
ESTIMATED LENGTH	41-0
NO. REQUIRED	12

NOTES:

1. All field dimensions and elevations given on the drawings for existing structures in connection with the work to be done under this contract shall be verified by the Contractor prior to fabrication and or construction.
2. ¾" ϕ Expansion Bolts shall consist of self-drilling expansion shields with ⅞" ϕ hook bolts.

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

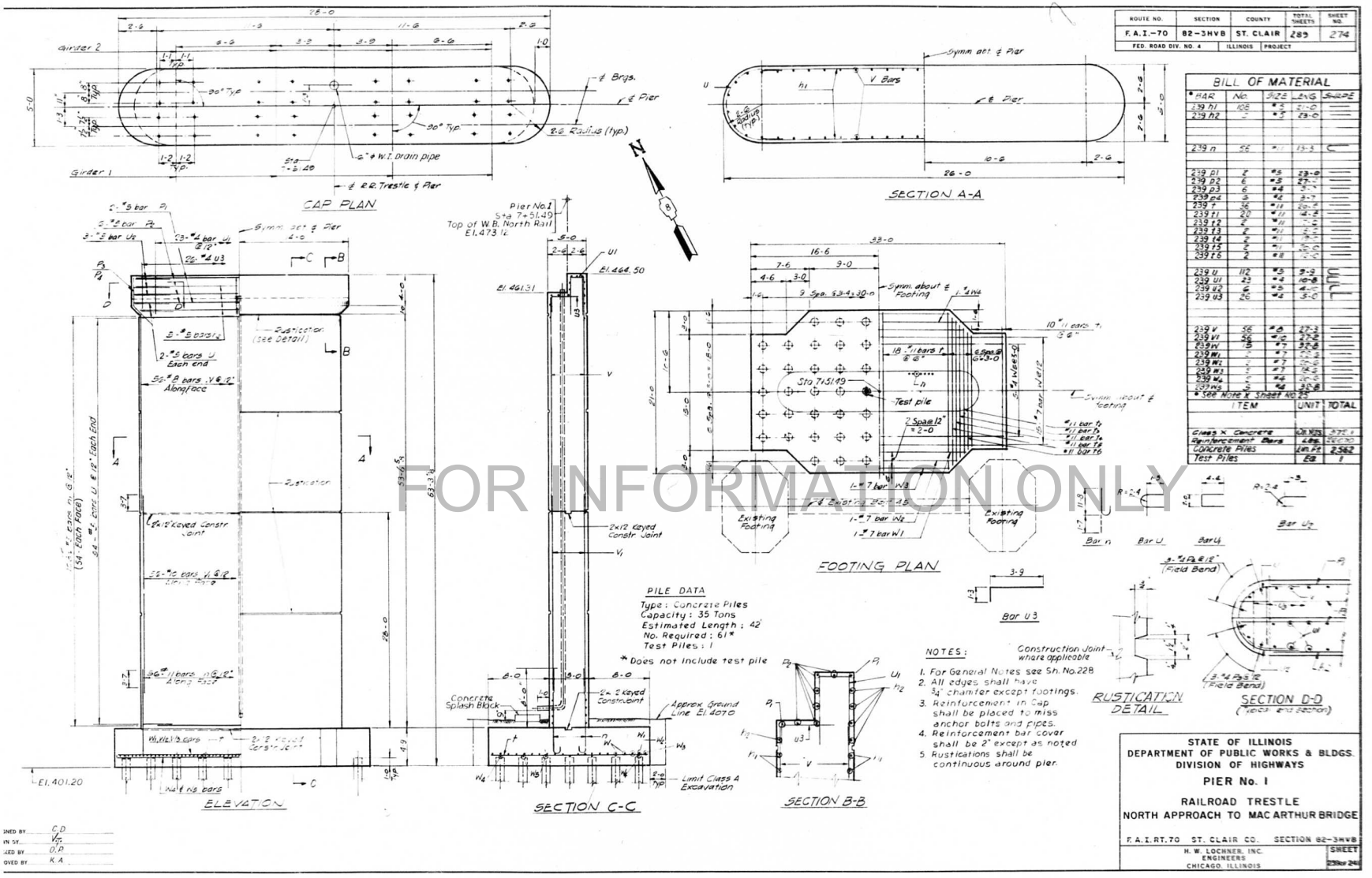
FOUNDATIONS BENTS 40A AND 46A

RAILROAD TRESTLE NORTH APPROACH TO MAC ARTHUR BRIDGE

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

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

SHEET 236 OF 241



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	274
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

* BAR	NO.	SIZE	LENG.	SHAPE
239 h1	108	#5	21-0	
239 h2	2	#5	23-0	
239 n	56	#11	15-8	C
239 Q1	6	#5	23-0	
239 Q3	6	#5	22-1	
239 Q4	6	#4	21-1	
239 e4	3	#4	3-7	
239 t	36	#11	60-2	
239 T1	20	#11	41-2	
239 T2	6	#11	41-2	
239 T3	2	#11	21-2	
239 T4	2	#11	19-1	
239 T5	2	#11	16-10	
239 T6	2	#11	14-8	
239 U	112	#5	9-3	
239 U1	22	#4	10-8	
239 U2	6	#5	4-6	
239 U3	26	#4	5-0	
239 V	56	#6	42-3	
239 V1	56	#6	43-2	
239 W	3	#7	23-6	
239 W1	1	#7	23-6	
239 W2	1	#7	20-6	
239 W3	1	#7	18-3	
239 W4	1	#4	11-6	
239 W5	1	#4	33-8	

* See Note K Sheet No. 28

ITEM	UNIT	TOTAL
Class X Concrete	CU. YDS.	677.1
Reinforcement Bars	LBS.	26,000
Concrete Piles	LIN. FT.	2,562
Test Piles	EA.	1

PILE DATA

Type: Concrete Piles
Capacity: 35 Tons
Estimated Length: 42'
No. Required: 61*
Test Piles: 1

* Does not include test pile

NOTES:

1. For General Notes see Sh. No. 228.
2. All edges shall have ¾" chamfer except footings.
3. Reinforcement in Cap shall be placed to miss anchor bolts and pipes.
4. Reinforcement bar cover shall be 2" except as noted.
5. Rustications shall be continuous around pier.

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

PIER No. 1

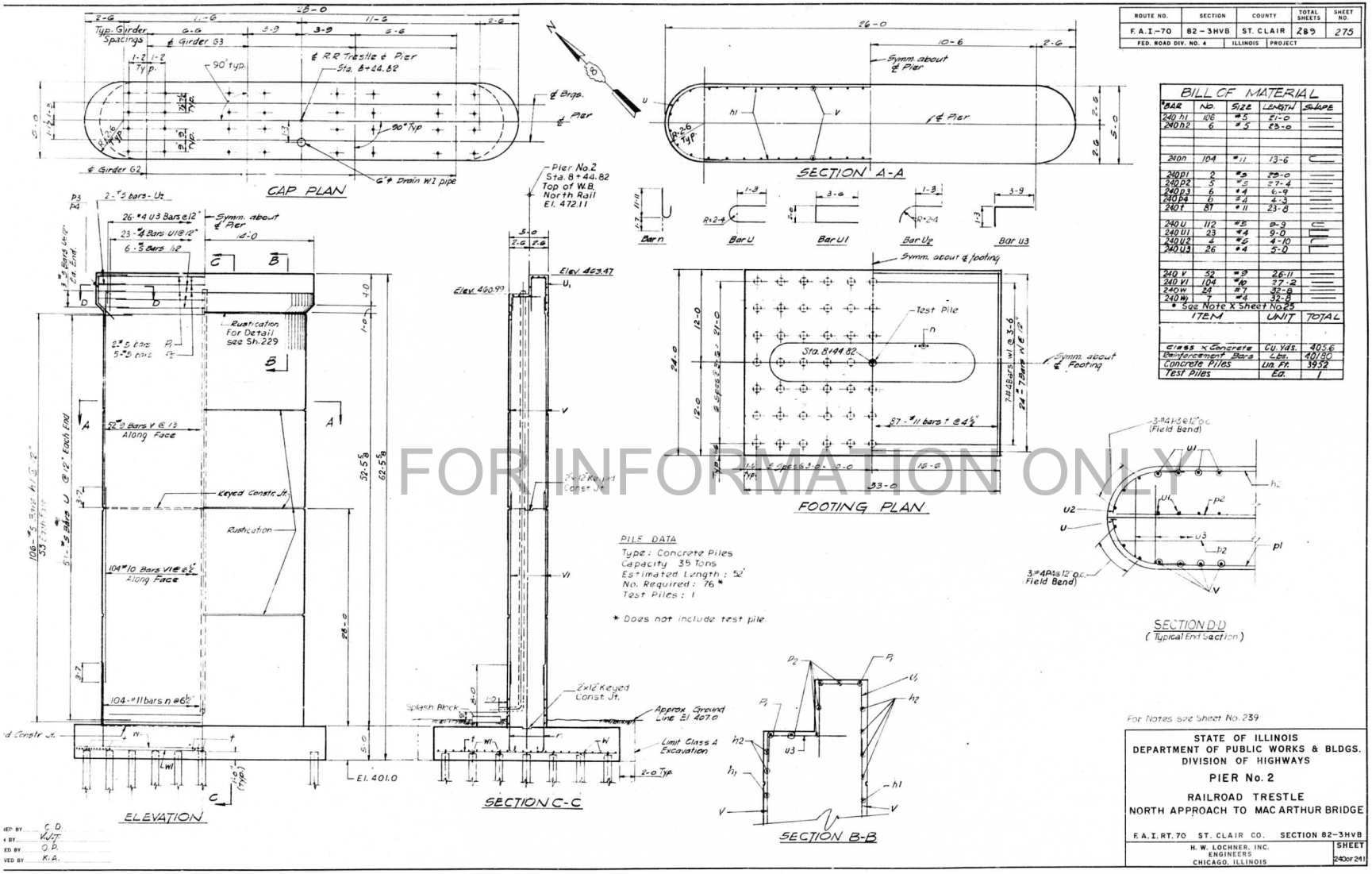
RAILROAD TRESTLE
NORTH APPROACH TO MAC ARTHUR BRIDGE

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

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

SHEET 273 OF 289

DRAWN BY C.D
TRACED BY
CHECKED BY O.P.
APPROVED BY K.A.



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	275
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

*BAR	NO.	SIZE	LENGTH	SHAPE
240 h1	106	#5	21-0	
240 h2	6	#5	23-0	
240n	104	#11	13-6	
240 D1	2	#5	25-0	
240 D2	5	#5	27-4	
240 D3	6	#4	6-9	
240 D4	6	#4	4-3	
240 t	81	#11	23-8	
240 U	112	#5	8-9	
240 U1	23	#4	9-0	
240 U2	4	#5	4-10	
240 U3	26	#4	5-0	
240 V	52	#9	26-11	
240 V1	104	#10	27-2	
240 W	24	#7	32-8	
240 W1	7	#4	32-8	

* See Note X Sheet No. 235

ITEM	UNIT	TOTAL
Class X Concrete	Cu. Yds.	405.6
Reinforcement Bars	Lbs.	40180
Concrete Piles	Lin. Ft.	3952
Test Piles	Ea.	1

For Notes See Sheet No. 239

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

PIER No. 2

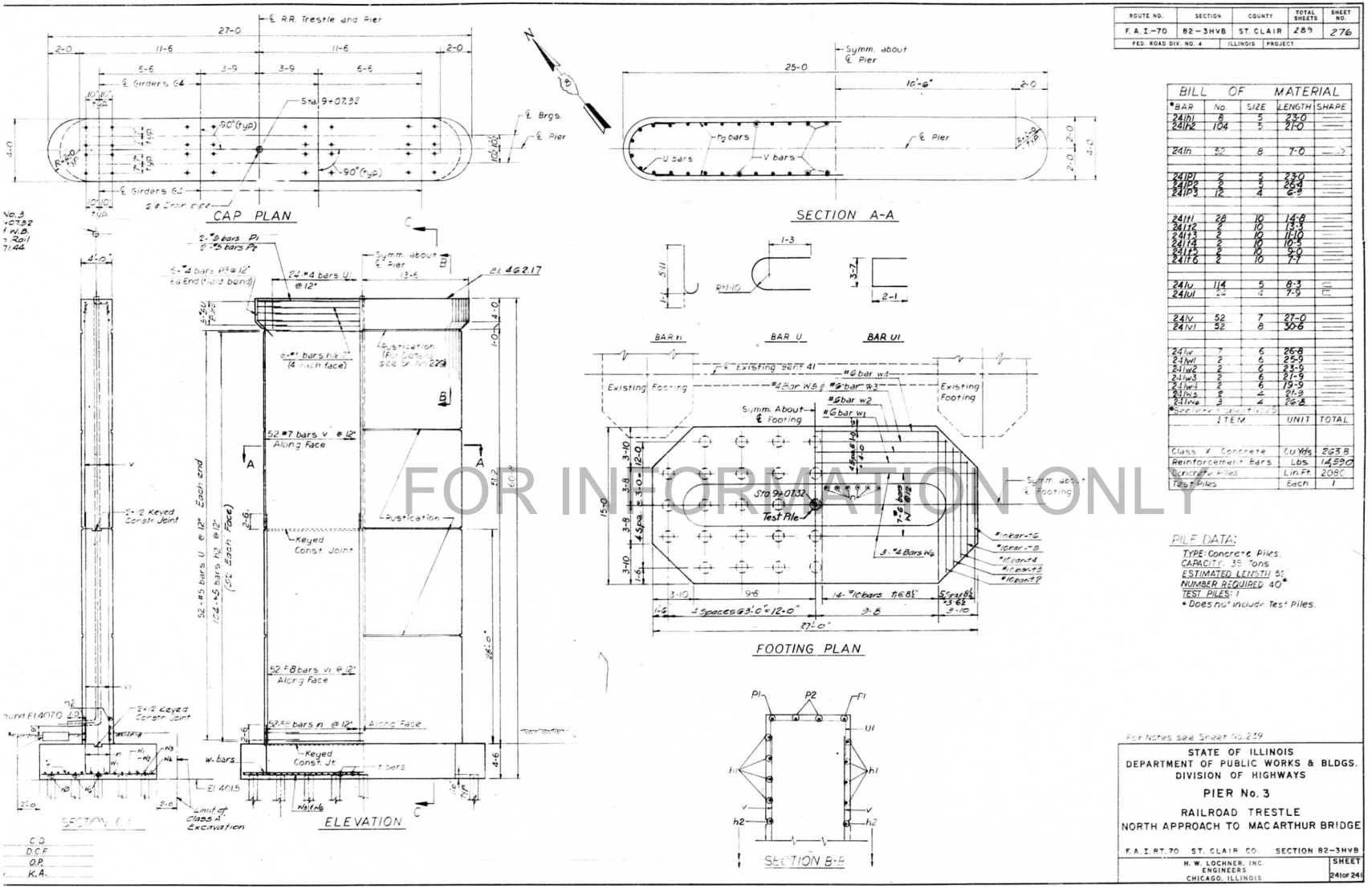
RAILROAD TRESTLE
NORTH APPROACH TO MAC ARTHUR BRIDGE

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

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

SHEET 240 OF 241

DET. BY C.D.
CK. BY V.J.T.
REVD BY O.P.
APVED BY K.A.



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB	ST. CLAIR	289	276
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

*BAR	No.	SIZE	LENGTH	SHAPE
241h1	8	5	23-0	
241h2	104	5	21-0	
241n	52	8	7-0	
241P1	2	5	23-0	
241P2	2	5	28-9	
241P3	12	4	6-9	
241t1	28	10	14-8	
241t2	2	10	13-3	
241t3	2	10	11-10	
241t4	2	10	10-5	
241t5	2	10	9-0	
241t6	2	10	7-7	
241u	114	5	8-3	
241u1	52	4	7-9	
241v	52	7	27-0	
241v1	52	8	30-6	
241w	7	6	26-8	
241w1	2	6	25-9	
241w2	2	6	23-9	
241w3	2	6	21-9	
241w4	2	6	19-9	
241w5	2	4	21-9	
241w6	3	4	26-8	

*See Key Sheet No. 2

ITEM	UNIT	TOTAL
Class X Concrete	CU Yds	263.8
Reinforcement bars	Lbs.	14,590
Concrete Piles	Lin. Ft.	2080
Test Piles	Each	1

PILE DATA:

TYPE: Concrete Piles.
CAPACITY: 35 Tons
ESTIMATED LENGTH 52'
NUMBER REQUIRED 40*
TEST PILES: 1
* Does not include Test Piles.

For Notes see Sheet No. 239

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

PIER No. 3

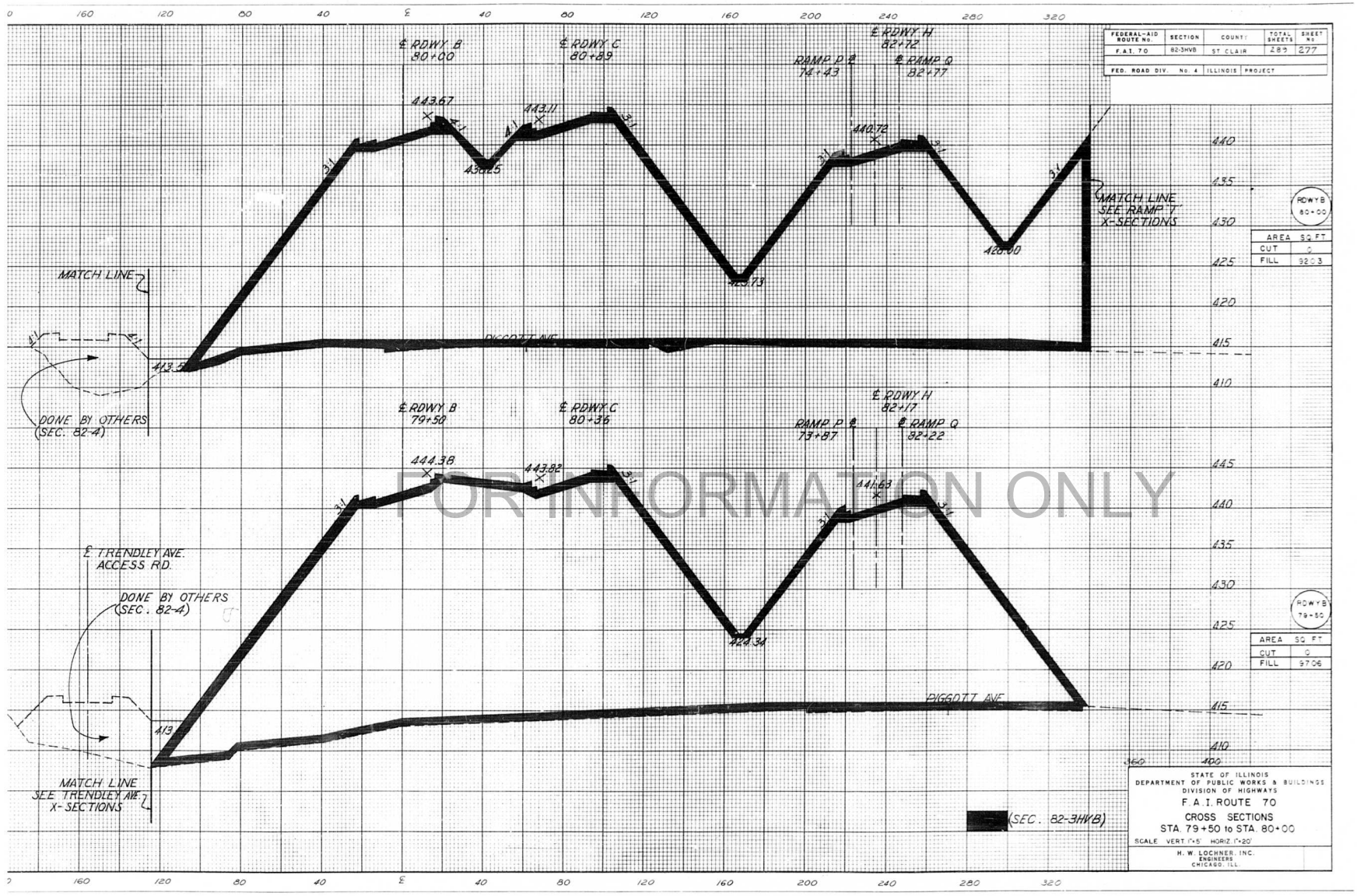
RAILROAD TRESTLE
NORTH APPROACH TO MAC ARTHUR BRIDGE

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

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

SHEET 241 of 241

C.D.
D.C.F.
O.R.
K.A.



FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB	ST. CLAIR	285	277
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		

RDWY B 80+00	AREA SQ. FT.
CUT	0
FILL	320.3

RDWY B 79+50	AREA SQ. FT.
CUT	0
FILL	97.06

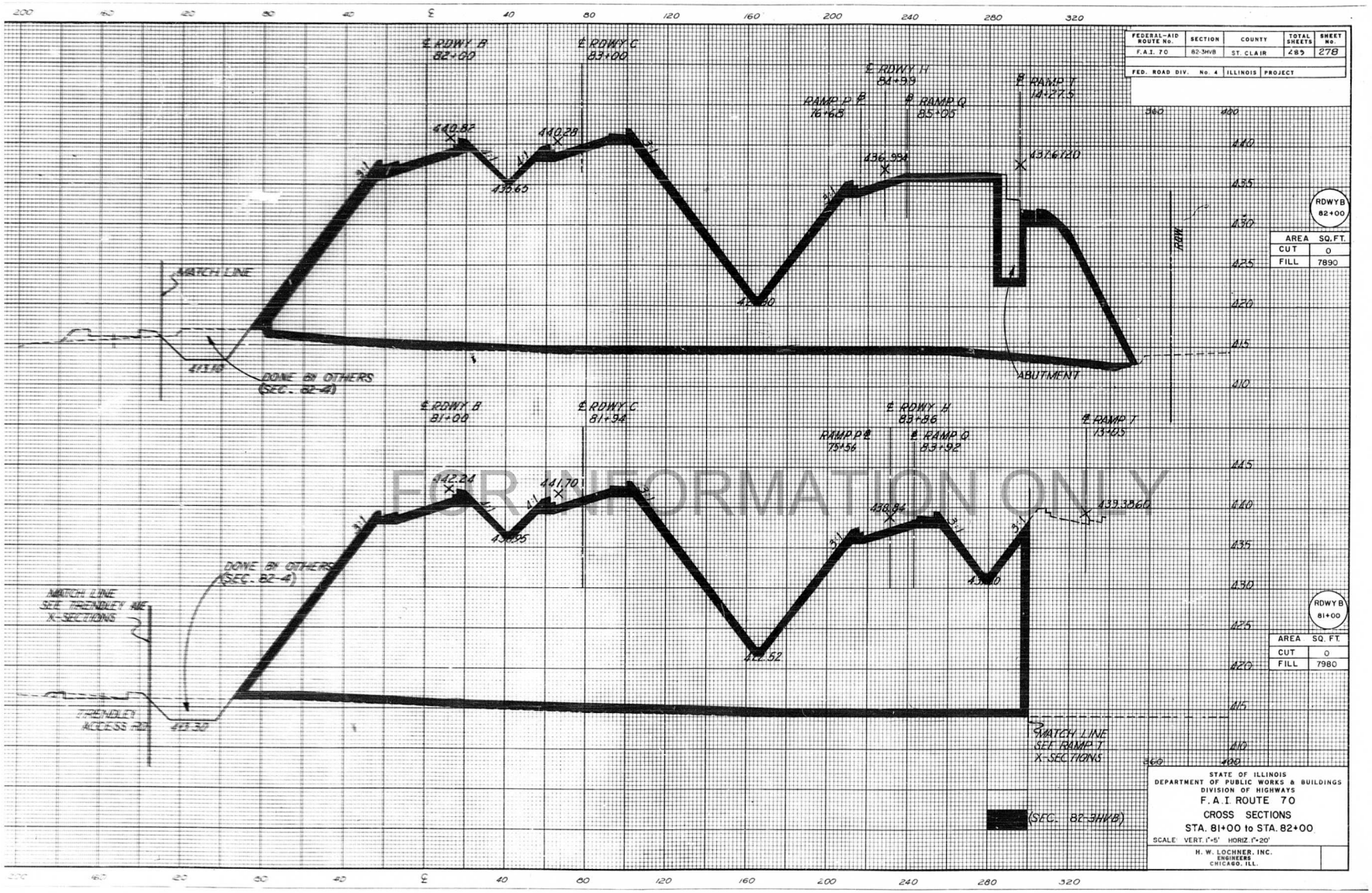
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

F. A. I. ROUTE 70

CROSS SECTIONS
STA. 79+50 to STA. 80+00

SCALE VERT. 1"=5' HORIZ. 1"=20'

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



FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB	ST. CLAIR	483	278
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

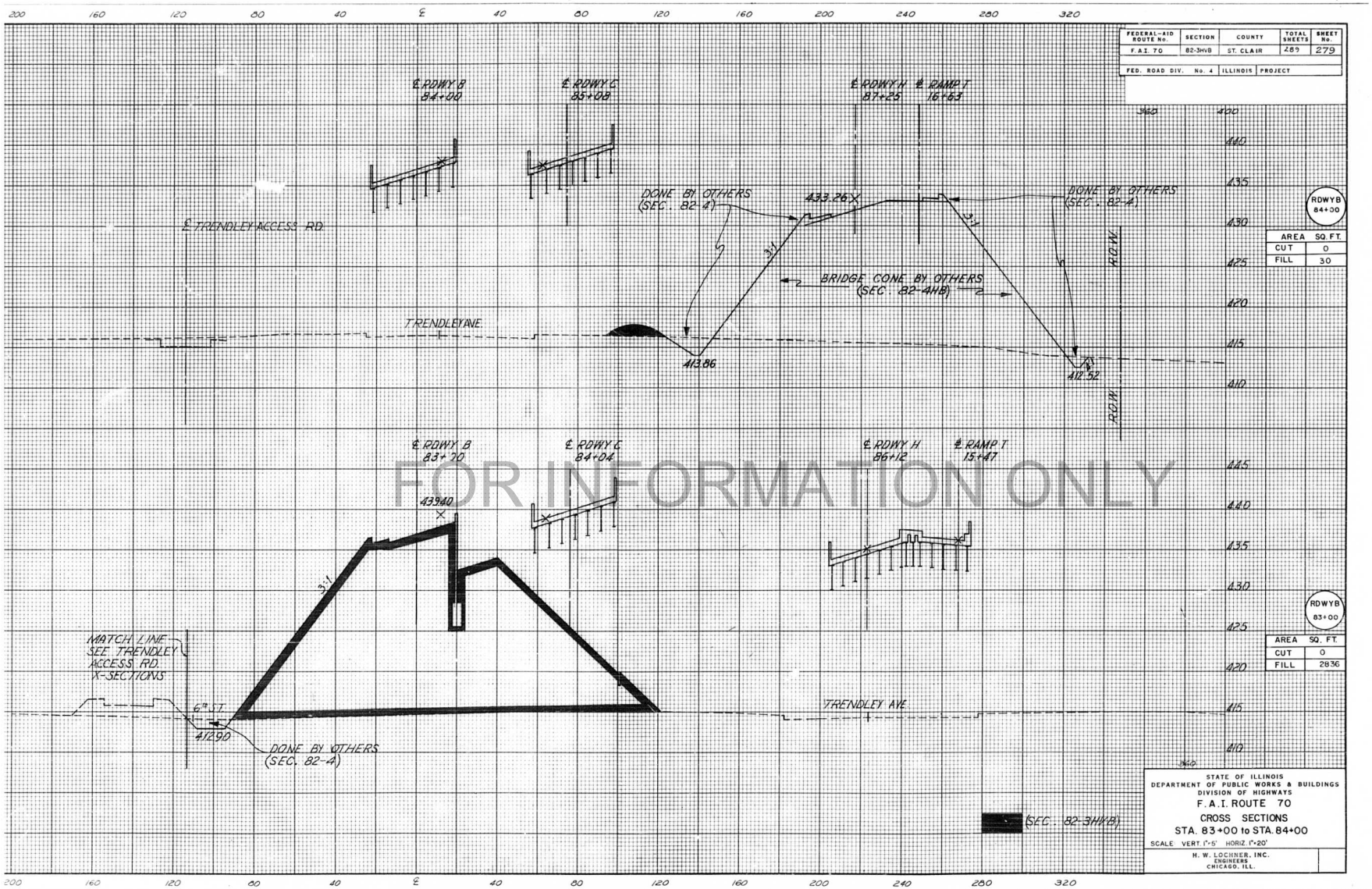
F.A.I. ROUTE 70

CROSS SECTIONS

STA. 81+00 to STA. 82+00

SCALE: VERT. 1"=5' HORIZ. 1"=20'

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



FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB	ST. CLAIR	289	279
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

F.A.I. ROUTE 70

CROSS SECTIONS
STA. 83+00 to STA. 84+00

SCALE: VERT. 1"=5' HORIZ. 1"=20'

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

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB	ST. CLAIR	283	280
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

RAMP O

CROSS SECTIONS

STA. 17+00.00 TO STA. 21+77.00

SCALE: VERT. 1"=5' HORIZ. 1"=20'

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