FEDERAL-AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVB-3	ST. CLAIR	262	1
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT I-70-1(80)0	

P-98-087-00

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

PLANS FOR PROPOSED FEDERAL AID HIGHWAY F.A.I. ROUTE 70

SEC. 82—3HVB-3

GRADING & PAVING AND POPLAR STREET BRIDGE APPROACHES

PROJECT I-70-1 (80)0

ST. CLAIR COUNTY

C-98-034-65

FOR INDEX OF SHEETS, SEE SHEET NO. 3

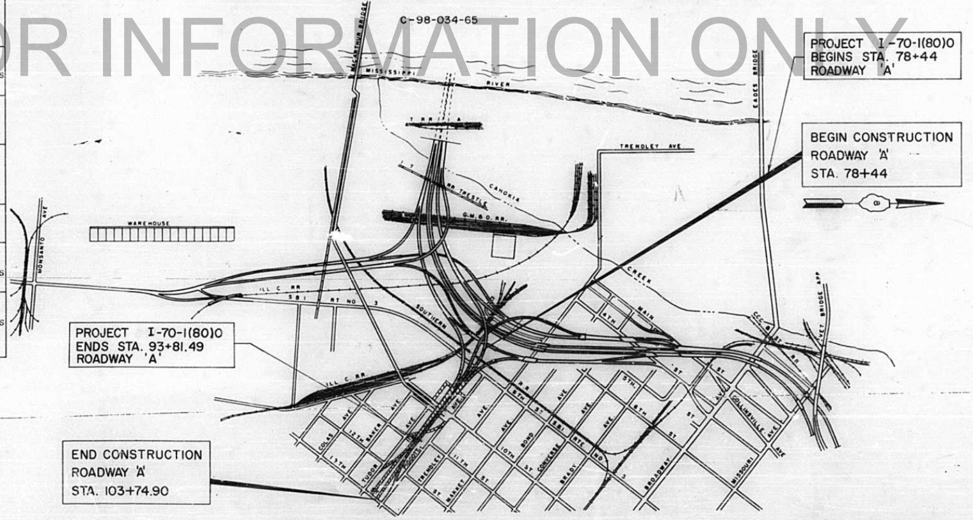
DESCRIPTION OF PROJECT:

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

ROADWAY A	ONE-6 SPAN CONTINUOUS UNIT SPANS: 76'-94'-102'-100'-92'-74'	CURVED WELDED PLATE GIRDERS WITH ROLLED FLOORBEAMS AND STRINGERS ON R.C. PIERS
	ONE-3 SPAN CONTINUOUS UNIT SPANS: 86'-112'-86'	WELDED PLATE GIRDERS WITH PLATE GIRDER FLOOR-BEAMS AND ROLLED STRINGERS ON R.C. PIERS
	ONE-3 SPAN CONTINUOUS UNIT SPANS: 91'-113'-91'	WELDED PLATE GIRDERS WITH ROLLED FLOORBEAMS AND STRINGERS ON R.C. PIERS
	ONE-2 SPAN CONTINUOUS UNIT SPANS: 96'-96'	WELDED PLATE GIRDERS WITH ROLLED FLOORBEAMS AND STRINGER ON R.C. PIERS
	ONE-SIMPLE SPAN AT VARYING LENGTHS FROM 57' TO 97'	EXTERIOR COMPOSITE WELDED PLATE GIRDERS WITH INTERIOR COMPOSITE ROLLED STRINGER ON R.C. PIERS
	ONE-SIMPLE SPAN @ 87' ONE-SIMPLE SPAN @ 54'	COMPOSITE WF ON R.C. PIERS SPILL THRU ABUTMENT
ROADWAY D	ONE-4 SPAN CONTINUOUS UNIT SPANS: 91'-101'-101'-91'	WELDED PLATE GIRDERS WITH PLATE GIRDER FLOOR-BEAMS AND ROLLED STRINGERS ON R.C. PIERS
	ONE-3 SPAN CONTINUOUS UNIT SPANS: 85'-106'-84'	CURVED WELDED PLATE GIRDERS WITH ROLLED FLOORBEAMS AND STRINGERS ON R.C. PIERS
	ONE-3 SPAN CONTINUOUS UNIT SPANS: 75'-97'-75'	WELDED PLATE GIRDERS WITH PLATE GIRDER FLOORBEAMS AND ROLLED STRINGERS ON R.C. PIERS
	ONE-SIMPLE SPAN OF VARYING LENGTHS FROM 53' TO 94'	EXTERIOR COMPOSITE WELDED PLATE GIRDERS WITH INTERIOR COMPOSITE ROLLED STRINGER ON R.C. PIERS
	ONE-SIMPLE SPAN AT VARYING LENGTHS FROM 84' TO 87' ONE-SIMPLE SPAN @ 54'	COMPOSITE WF ON R.C. PIERS AND SPILL THRU ABUTMENT
RAMP S	TWO-3 SPAN CONTINUOUS UNIT SPANS: 1 @ 103'-133'-104' 1 @ 82'-106'-82'	CURVED WELDED PLATE GIRDERS WITH ROLLED FLOORBEAMS AND STRINGERS ON R. C. PIERS
RAMP T	ONE-6 SPAN CONTINUOUS UNIT SPANS: 79'-101'-102'-102'-101'-79'	CURVED WELDED PLATE GIRDERS WITH ROLLED FLOORBEAMS AND STRINGERS ON R.C. PIER AND SPILL THRU ABUTMENT

THE POPLAR STREET BRIDGE APPROACHES FOR THIS SECTION CARRY THE FOLLOWING ROADWAY A, ROADWAY D, AND RAMPS S AND T OVER THE TRACKS OF SOUTHERN R.R., 8TH STREET, GOODRICH-PIGGOTT CONNECTOR, MAC ARTHUR BRIDGE APPROACH AND TUDOR-PIGGOTT CONNECTOR.

THE WORK ALSO INCLUDES THE FURNISHING OF ALL MATERIALS AND LABOR NECESSARY TO COMPLETE THE GRADING, PAVING, CONSTRUCTING SEWERS AND DRAINAGE STRUCTURES, FILLING EXISTING SEWERS, THE FURNISHING, INSTALLING AND TESTING OF COMPLETE HIGHWAY LIGHTING SYSTEMS, THE FURNISHING AND ERECTING OF HIGHWAY SIGNS, THE RECONSTRUCTION OF EXISTING CITY STREETS, AND ALL APPURTENANT AND COLLATERAL WORK NECESSARY TO COMPLETE THE PROJECT AS SHOWN ON THE PLANS AND AS HEREIN SPECIFIED.



CITY OF EAST ST. LOUIS

LOCATION PLAN

0 350 700 1400 2100

LOCATION OF SECTION INDICATED THUS:

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Engineer of Bridge & Traffic Structures

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

SUBMITTED 2-27 19 67
Robert E. Kronst
DISTRICT ENGINEER

EXAMINED 5-12 19 67
A V Van Ausdall
ENGINEER OF ROAD PLANS AND CONTRACTS

PASSED 5-12 19 67
W E Baumann
ENGINEER OF DESIGN

APPROVED 5-12 19 67
CHIEF HIGHWAY ENGINEER

APPROVED 5-12 19 67
Francis S. Lorenz
DIRECTOR

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

APPROVED

DIVISION ENGINEER DATE

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

ROAD CLASSIFICATION

F.A. ROUTE 14 (ROADWAY A & ROADWAY D) 3902-T-50

NET LENGTH TO BE IMPROVED

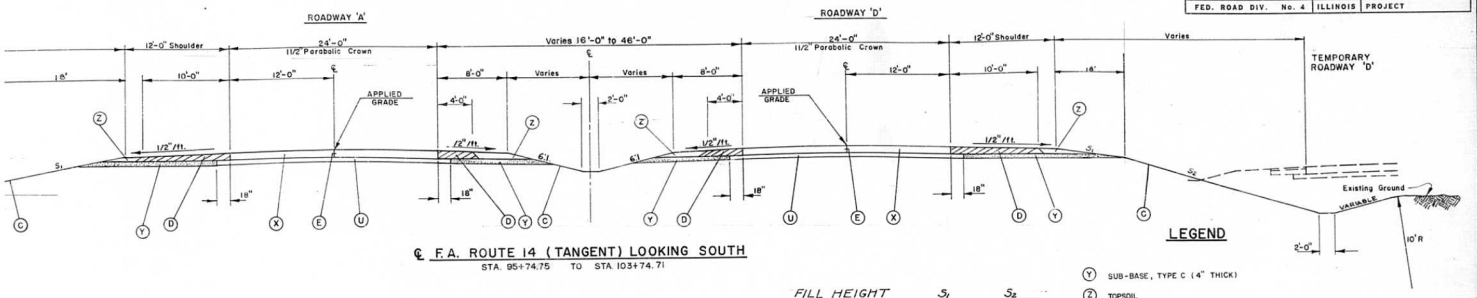
2530.90 FT. (0.479 MILES) ALONG ℄ RDWY 'A'

PROJECT LENGTH 1537.49 FT. = 0.291 MILES ℄ ROADWAY 'A'

CONTRACT NO. 25148

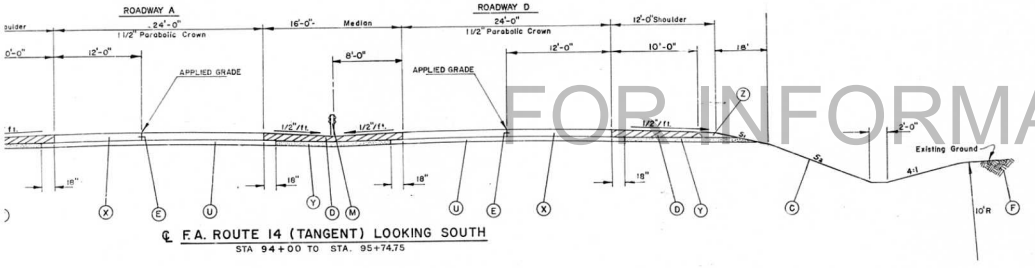
Dec 12 1966

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB-3	ST. CLAIR	262	2
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		

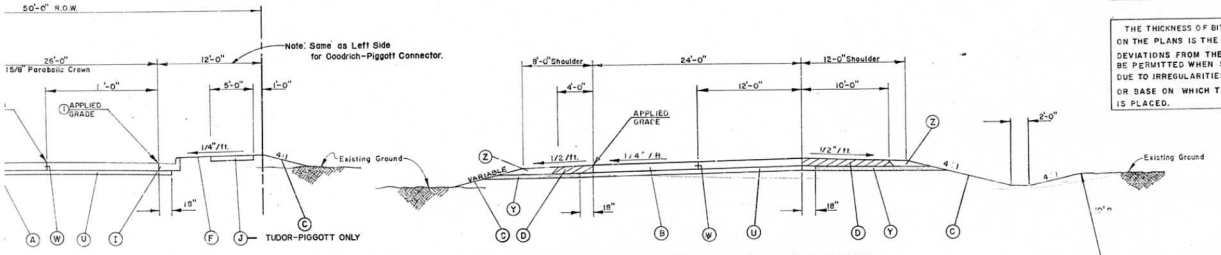


℄ F.A. ROUTE 14 (TANGENT) LOOKING SOUTH
STA. 95+74.75 TO STA 103+74.71

FILL HEIGHT	S_1	S_2
0'—10'	6:1	6:1
10'—15'	6:1	4:1
OVER 15'	6:1	3:1



℄ F.A. ROUTE 14 (TANGENT) LOOKING SOUTH
STA 94+00 TO STA. 95+74.75



ONNECTOR (LOOKING SOUTH)
CONNECTOR (See Note)

IECTOR STA 6+08 TO STA 10+00
NECTOR STA. 10+00 TO STA 11+64.73
NNECTOR STA 11+64.73 TO STA 13+35
ONNECTOR STA 3+62 TO STA 9+84

TEMPORARY ROADWAY 'D' (TANGENT) LOOKING SOUTH
TEMPORARY ROADWAY 'A' (TANGENT) LOOKING NORTH

ROADWAY 'D' STA 98+20 TO STA 99+08
ROADWAY 'A' STA 99+60 TO STA 100+46

LEGEND

- (Y) SUB-BASE, TYPE C (4" THICK)
- (Z) TOPSOIL
- (A) PORTLAND CEMENT CONCRETE PAVEMENT (8" THICK)
- (B) PORTLAND CEMENT CONCRETE PAVEMENT (10" THICK)
- (C) SODDING
- (D) STABILIZED SHOULDERS (BAM)
- (E) LONGITUDINAL SAWED JOINT OR LONGITUDINAL CONSTRUCTION JOINT
- (F) SEEDING
- (I) COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- (J) PORTLAND CEMENT CONCRETE SIDEWALK (5" THICK)
- (M) STEEL PLATE BEAM GUARD RAIL, DOUBLE BEAM
- (U) STABILIZED SUB-BASE 4"
- (X) CONTINUOUSLY REINFORCED PCC PAVEMENT (8" THICK)
- (W) METAL OR SAWED LONGITUDINAL 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 PERCENT 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.

NOTE: FOR PAVEMENT DETAILS, SEE STANDARD DRAWING 2224-3 & 2179-1, 2225-2
FOR SHOULDER AND SUB-BASE DETAILS SEE STANDARD DRAWING 2237

STABILIZED SHOULDERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD 2237; EXCEPT THAT THE RESERVOIR AND PLASTIC JOINT FILLER WILL NOT BE REQUIRED.

THE PAVEMENT, SUB-BASE AND SHOULDERS AS SHOWN ON THE CROSS-SECTION TEMPLETS IN THESE PLANS DO NOT AGREE WITH THE TYPICAL SECTION AND THE STANDARD DRAWING FOR STABILIZED SHOULDERS. THE EARTHWORK AS SHOWN IN THE SUMMARY OF QUANTITIES HAVE BEEN REVISED TO AGREE WITH THE TYPICAL SECTIONS AND STANDARD 2237

scale 6 3 0 6 12 feet

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

F.A. ROUTE 14
TYPICAL PAVEMENT SECTIONS

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

CEM 7-25-67 Revised slopes 4:1 & 6:1 4:1 to VARIABLE

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB-3	ST. CLAIR	262	3
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		

INDEX OF SHEETS

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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

ONE SIGN (STANDARD 2153-5,) TO BE CONSTRUCTED AT LOCATION INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. (SHEET NO. 8)

ALL PAVEMENT DIMENSIONS ARE TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

SMALL FLAT AREAS BETWEEN SLOPES OR AT THE EDGES OF SLOPES SHALL BE INCLUDED AS SEEDING CLASS II

APPLY FERTILIZER NUTRIENTS AS FOLLOWS:

SEEDING	POUNDS PER ACRE	RATIO
CLASS II	240	10-6-4

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

INDEX OF PLANS
GENERAL NOTES

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

CEM 7-25-67 Rev. Index of Shts - Add. 48A, 262A, 262B, 262C
Rev. Gen. Notes on Seeding

CEM 7-31-67 Rev. Stds. No's
Deleted 2240

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Revised Index of Plans, General Notes
MARY OF QUANTITIES

MARY OF QUANTITIES

ARY OF QUANTITIES, SCHEDULE OF QUANTITIES

DULE OF QUANTITIES

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- F.A. ROUTE 14 RDWY. 'A' STA. 91+00 TO STA. 103+74.90

- GOODRICH AVE. TO PIGGOTT AVE. CONNECTOR

- TUDOR AVE. -PIGGOTT AVE. CONNECTOR

TILE - F.A. ROUTE 14 RDWY. 'A' STA. 91+00 TO STA. 103+74.90
F.A. ROUTE 14 RDWY. 'B' STA. 99+00 TO STA. 102+35.97

TILE - F.A. ROUTE 14 TEMP. RDWY. 'A' STA. 94+00 TO STA. 102+70
F.A. ROUTE 14 TEMP. RDWY. 'D' STA. 93+00 TO STA. 101+23

TILE - TUDOR-PIGGOTT CONNECTOR
GOODRICH-PIGGOTT CONNECTOR

OF EXISTING CONDITIONS & UTILITIES (8TH ST. TO 10TH ST.)

OF EXISTING CONDITIONS & UTILITIES (10TH ST. TO 13TH ST.)

NAGE PLAN - RDWY. "A" STA. 89+50 TO STA. 103+75

ILED ELEVATIONS - TEMP. RDWY. 'A' STA. 95+50 TO STA. 99+60
TEMP. RDWY. 'D' STA. 94+11 TO STA. 97+75

DETAILS - TEMPORARY RDWYS. 'A' & 'D'

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NMENT PLAN - RDWY. "C" STA. 71+00 TO STA. 93+00

NMENT PLAN - RDWY. "A" STA. 81+36 TO STA. 103+74.90

OF COORDINATES & DESCRIPTIONS

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IDUIT ARRANGEMENTS

TRICAL DETAILS - LIGHT STANDARD ON BRIDGES

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AL DETAIL FOR FEEDER CONDUIT RUN AT EXPANSION
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TRICAL DETAILS - FLUORESCENT SIGN LIGHTING FIXTURES

TRICAL DETAILS - SIGN TRUSSES

TRICAL DETAILS - ATTACHING CONDUIT TO BRIDGES FOR
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"AS REVISED" (3-26-68)

FEDERAL-AID ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
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INDEX OF PLANS
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H. W. LUCHINI
ENGINEER
CHICAGO

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SMALL FLAT AREAS BETWEEN SLOPES OR AT THE EDGES OF SLOPES SHALL BE INCLUDED AS SEEDING CLASS II

APPLY FERTILIZER NUTRIENTS AS FOLLOWS:

SEEDING	POUNDS PER ACRE	RATIO
CLASS II	240	10-6-4

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

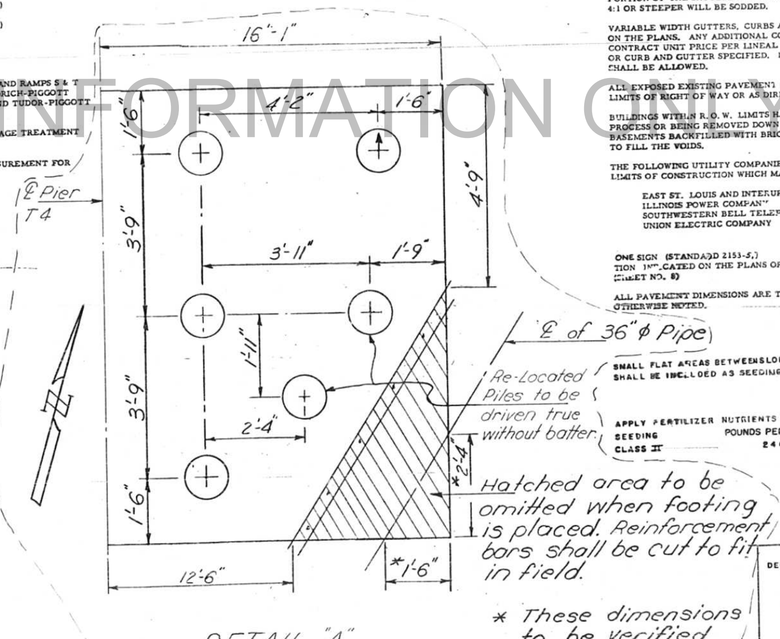
INDEX OF PLANS
GENERAL NOTES

H. W. LOCHNER
ENGINEERS
CHICAGO

[illegible] 7-26-67 Rev. Index of Sht. Add 262 A, 262B, 262C
Rev. Gen. notes on Seeding
[illegible]

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB-3	ST. CLAIR	262	3A
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		

INDEX OF SHEETS



DETAIL "A"
(For Location See Sheet 215A of 262)

GENERAL NOTES

THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 2, 1958, THE "SUPPLEMENTAL SPECIFICATIONS" EFFECTIVE JANUARY 3, 1966 THE "STANDARD SPECIFICATIONS FOR TRAFFIC SIGNALS" ADOPTED JUNE 1, 1959, AND THE "SUPPLEMENTAL SPECIFICATIONS FOR HIGHWAY SIGNING", EFFECTIVE MARCH 1, 1963 SHALL GOVERN THIS CONSTRUCTION.

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

POSITIVE PROFILE GRADES ARE IN THE DIRECTION OF TRAFFIC AND HIGHER ELEVATIONS.

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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

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APPLY FERTILIZER NUTRIENTS AS FOLLOWS:

SEEDING	POUNDS PER ACRE	RATIO
CLASS II	240	10-6-4

(AS REVISED)

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

INDEX OF PLANS
GENERAL NOTES

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

CCM 7-25-67 Rev. Index of Shts.-Add. 48A, 242 A, 262B, 262C
Rev. Gen. Notes on Seeding

CCM 7-21-67 Rev. Std's. No's Deleted

Rev. 6-28-68 L.W. Two piles relocated. Corner of footing omitted.

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB-3	ST. CLAIR	262	3A

FED. ROAD DIV. No. 4 | ILLINOIS | PROJECT

GENERAL NOTES

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ILLINOIS POWER COMPANY
SOUTHWESTERN BELL TELEPHONE COMPANY
UNION ELECTRIC COMPANY

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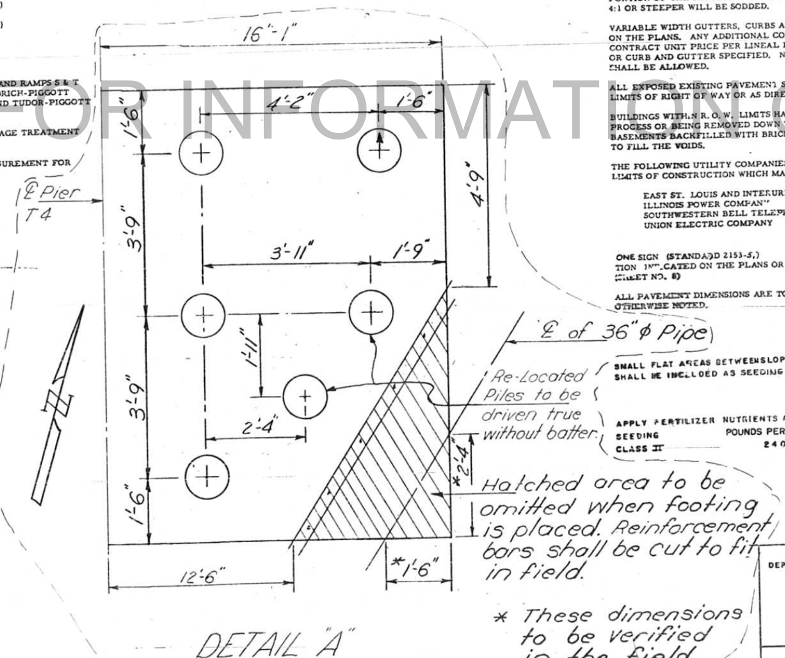
APPLY FERTILIZER NUTRIENTS AS FOLLOWS:

SEEDING	POUNDS PER ACRE	RATIO
CLASS II	240	10-6-4



DETAIL "A"
(For Location See Sheet 215A of 262)

(AS REVISED)

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

INDEX OF PLANS
GENERAL NOTES

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

Two piles relocated. Corner of footing omitted.

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB-3	ST. CLAIR	262	3B
FED ROAD DIV. No. 4	ILLINOIS	PROJECT		

INDEX OF SHEETS

GENERAL NOTES

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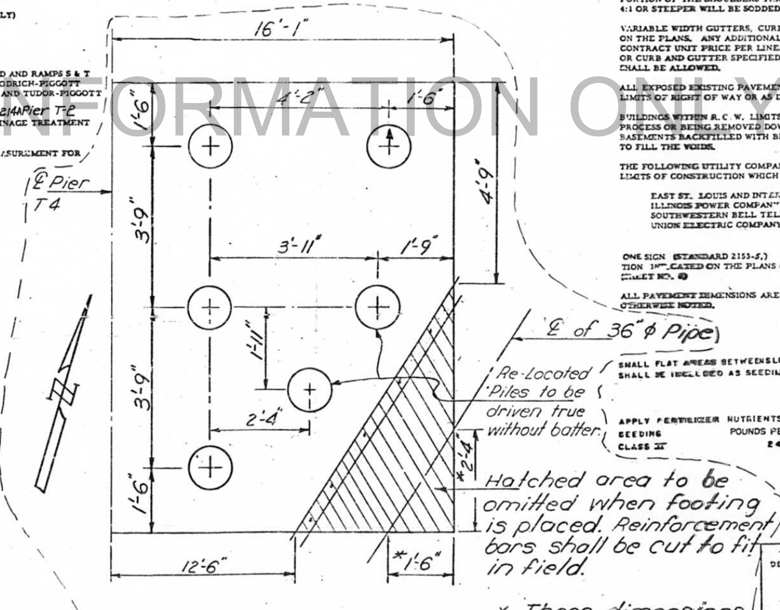
APPLY FERTILIZER NUTRIENTS AS FOLLOWS:

SEEDING	POUNDS PER ACRE	RATIO
CLASS II	240	10-8-6



DETAIL "A"
(For Location See Sheet 215A of 262)

(AS REVISED)

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

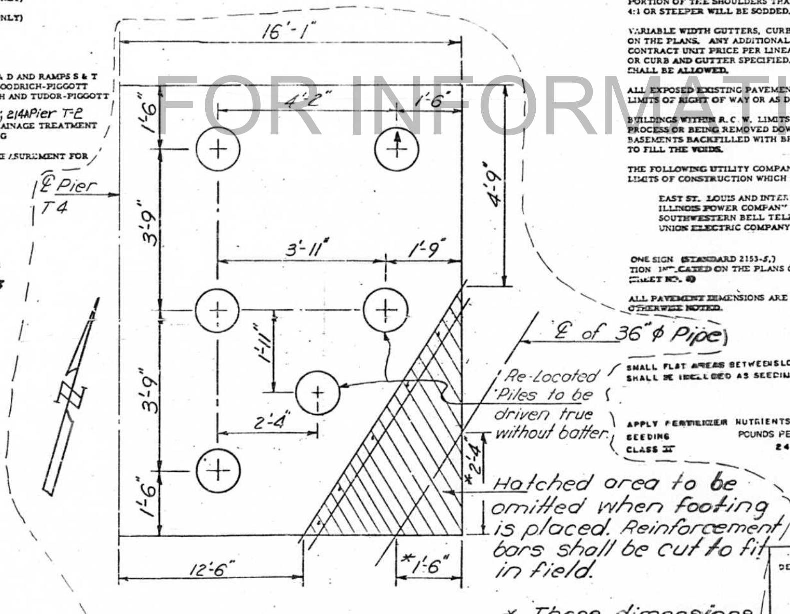
INDEX OF PLANS
GENERAL NOTES

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

Rev. 6-28-68 L.W. Two piles relocated. Corner of footing omitted. Rev. 7-10-68 Pier T-2 SFM

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB-3	ST. CLAIR	262	3B
FED ROAD DIV. No. 4	ILLINOIS	PROJECT		

TAIL "A" 3B
+60
03+74.90
103+74.90
102+77.77
O STA. 102+70
O STA. 101+23
0TH ST.)
13TH ST.)
STA. 99+60
STA. 97+75
AL PLAN
.90
STREET
NT
RING
NTROL
NT.
ON
N BOXES
TURES
FOR
19
15



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SEEDING	POUNDS PER ACRE	RATIO
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(AS REVISED)

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

INDEX OF PLANS
GENERAL NOTES

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

...ed. Corner of footing omitted. Rev. 7-10-68 Pier T-2 SFM

CEM 7-26-67 Rev. Index of Information 48A, 262 A, 262B, 262C
Rev. Gen. notes on Seeding

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB-3	ST. CLAIR	262	4
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		

SUMMARY OF QUANTITIES

SECTION 82-3HVB-3

LOCATION OF WORK (See Legend)				FEDERAL PARTICIPATION				STATE WORK			
				B	R			B	R		
CONSTRUCTION TYPE CODE				X531	7223	Y002	Y030	X531	7223	Y002	Y030
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
010001	TREE REMOVAL (6 TO 15) INCH DIAMETER)	IN. DIA.	2,072	-	880	-	-	-	1,192	-	-
010002	TREE REMOVAL (OVER 15 INCH DIAMETER)	IN. DIA.	1,070	-	526	-	-	-	544	-	-
014001	SPECIAL EXCAVATION	CU. YD.	6,083	-	986	-	-	-	5,097	-	-
016001	EMBANKMENT	CU. YD.	26,591	-	177	-	-	-	26,414	-	-
020001	TRENCH BACKFILL	CU. YD.	257	-	58	-	-	-	199	-	-
024016	STABILIZED SUB-BASE 4"	SQ. YD.	13,049	-	2,047	-	-	-	11,002	-	-
024018	SUB-BASE, GRANULAR MATERIAL, TYPE C	TON	1,323	-	22	-	-	-	1,301	-	-
027001	TOP SOIL	CU. YD.	358	-	6	-	-	-	352	-	-
029001	GRAVEL OR CRUSHED STONE BASE COURSE, TYPE A	TON	22	-	6	-	-	-	16	-	-
032006	PORTLAND CEMENT CONCRETE BASE COURSE, 9"	SQ. YD.	749	-	-	-	-	-	749	-	-
046001	BITUMINOUS MATERIALS (PRIME COAT)	GAL.	252	-	-	-	-	-	252	-	-
046003	MIXTURE FOR CRACKS, JOINTS AND FLANGEWAYS	TON	5	-	-	-	-	-	5	-	-
046004	LEVELING BINDER (MACHINE METHOD)	TON	10	-	-	-	-	-	10	-	-
046005	LEVELING BINDER (HAND METHOD)	TON	10	-	-	-	-	-	10	-	-
046006	BITUMINOUS CONCRETE BINDER COURSE	TON	367	-	-	-	-	-	367	-	-
046007	BITUMINOUS CONCRETE SURFACE COURSE, SUB-CLASS I-11	TON	322	-	-	-	-	-	322	-	-
048006	PORTLAND CEMENT CONCRETE PAVEMENT, 8"	SQ. YD.	3,981	-	1803	-	-	-	2,178	-	-
048008	PORTLAND CEMENT CONCRETE PAVEMENT, 10"	SQ. YD.	1,841	-	-	-	-	-	1,841	-	-
048011	PORTLAND CEMENT CONCRETE PAVEMENT 16 1/2 - 10 1/2 - 16 1/2	SQ. YD.	294	-	-	-	-	-	294	-	-
048012	PORTLAND CEMENT CONCRETE PAVEMENT 16 1/2 - 12 - 16 1/2	SQ. YD.	71	-	71	-	-	-	-	-	-
048019	PAVEMENT FABRIC	SQ. YD.	5,822	-	1,803	-	-	-	4,019	-	-
048027	CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT, 8"	SQ. YD.	4,866	-	-	-	-	-	4,866	-	-
048043	PAVEMENT REINFORCEMENT (8")	SQ. YD.	4,866	-	-	-	-	-	4,866	-	-
050001	CLASS A EXCAVATION FOR STRUCTURES	CU. YD.	5,551	5,551	-	-	-	-	-	-	-
052003	CLASS X CONCRETE	CU. YD.	9,886	9,880	1	-	-	-	5	-	-
052016	CLASS X CONCRETE (HEADWALL)	CU. YD.	1	-	-	-	-	-	1	-	-
052021	PROTECTIVE COAT	SQ. YD.	31,012	18,860	2,210	-	-	-	9,942	-	-
054007	FURNISHING STRUCTURAL STEEL	POUND	5,381,570	5,381,570	-	-	-	-	-	-	-
054008	ERECTING STRUCTURAL STEEL	POUND	5,381,570	5,381,570	-	-	-	-	-	-	-
059001	REINFORCEMENT BARS	POUND	1,969,182	1,947,650	5,713	-	-	-	15,819	-	-
060004	FURNISHING CREOSOTED PILES (UP TO 20')	LIN. FT.	496	256	-	-	-	-	240	-	-
060005	FURNISHING CREOSOTED PILES 20.1 TO 38 FEET	LIN. FT.	104	104	-	-	-	-	-	-	-
060008	DRIVING TIMBER PILES	LIN. FT.	600	360	-	-	-	-	240	-	-
060043	DRIVING CONCRETE PILES	LIN. FT.	45,113	45,113	-	-	-	-	-	-	-
060044	FURNISHING CONCRETE PILES	LIN. FT.	45,113	45,113	-	-	-	-	-	-	-
060047	TEST PILE CONCRETE	EACH	39	39	-	-	-	-	-	-	-
060100	PILE SPLICES FOR CONCRETE PILES	EACH	300	300	-	-	-	-	-	-	-
061001	NAME PLATES	EACH	1	1	-	-	-	-	-	-	-
063003	CORRUGATED METAL PIPE 12"	LIN. FT.	196	-	91	-	-	-	135	-	-

SUMMARY OF QUANTITIES

SECTION 82-3HVB-3

LOCATION OF WORK (See Legend)				FEDERAL PARTICIPATION				STATE WORK			
				B	R			B	R		
CONSTRUCTION TYPE CODE				X531	7223	Y002	Y030	X531	7223	Y002	Y030
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
066095	STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN AND SEWER PIPE, CLASS III, 12"	LIN. FT.	27	-	-	-	-	-	27	-	-
066210	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN AND SEWER PIPE, CLASS II, 12"	LIN. FT.	252	-	158	-	-	-	94	-	-
066211	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN AND SEWER PIPE, CLASS II, 15"	LIN. FT.	253	-	-	-	-	-	253	-	-
066212	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN AND SEWER PIPE, CLASS II, 18"	LIN. FT.	110	-	-	-	-	-	110	-	-
066280	STORM SEWERS, TYPE 3, REINFORCED CONCRETE CULVERT, STORM DRAIN AND SEWER PIPE, CLASS III, 15"	LIN. FT.	220	-	-	-	-	-	220	-	-
075017	CATCH BASIN, TYPE A, 4' DIAMETER, TYPE 3 FRAME	EACH	8	-	2	-	-	-	6	-	-
075021	CATCH BASIN, TYPE A, 4' DIAMETER, TYPE 8 GRATE	EACH	4	-	-	-	-	-	4	-	-
075081	MANHOLES, TYPE A, 4' DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	-	1	-	-	-	1	-	-
075100	INLETS, TYPE A, TYPE 3 FRAME	EACH	3	-	2	-	-	-	1	-	-
075105	INLETS, TYPE A, TYPE 10 FRAME	EACH	3	-	1	-	-	-	2	-	-
076003	MANHOLES TO BE ADJUSTED	EACH	6	-	-	-	-	-	6	-	-
076004	MANHOLES TO BE RECONSTRUCTED	EACH	1	-	1	-	-	-	-	-	-
076015	INLETS TO BE ADJUSTED WITH NEW TYPE 3 FRAME	EACH	1	-	-	-	-	-	1	-	-
079003	FILLING EXISTING INLETS	EACH	3	-	1	-	-	-	2	-	-
080092	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	LIN. FT.	3,957	-	1,209	-	-	-	2,748	-	-
080094	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.06	LIN. FT.	58	-	-	-	-	-	58	-	-
080095	CONCRETE CURB, TYPE B	LIN. FT.	50	-	-	-	-	-	50	-	-
080106	CONCRETE CURB, TYPE B (MOD)	LIN. FT.	35	-	-	-	-	-	35	-	-
083002	SLOPE WALL 4 INCH	SQ. YD.	774	774	-	-	-	-	-	-	-
085016	PAVEMENT REMOVAL AND BITUMINOUS REPLACMENT, TYPE I, 8 INCH.	SQ. YD.	14	-	-	-	-	-	14	-	-
085019	PAVEMENT REMOVAL AND BITUMINOUS REPLACEMENT, TYPE III, 8 INCHES	SQ. YD.	19	-	19	-	-	-	-	-	-
089003	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	SQ. FT.	3,289	-	84	-	-	-	3,205	-	-

LEGEND FOR "LOCATION OF WORK"

R=ROADWAY

Goudrich-Piggott Connector
Sta. 3+82 to Sta. 9 +84

Tudor-Piggott Connector
Sta. 4+78 to Sta. 13+85

Roadway A
Sta. 93+8.49 to Sta. 103+75

Roadway D
Sta. 81+80; Sta. 92+94.23 to Sta. 102+36

Ramp T
Sta. 9+65; Sta. 11+88 to Sta. 12+27.83

Temporary Roadway A
Sta. 93+49.75 to Sta. 103+32

Temporary Roadway D
Sta. 9+10.81 to Sta. 101+93

B=BRIDGE

Roadway A
Sta. 78+44 to Sta. 93+81.48

Roadway D
Sta. 81+63 to Sta. 92+94.23

Ramp S
Sta. 20+42 to Sta. 34+52.41

Ramp T
Sta. 0+00 to Sta. 11+88

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

SUMMARY OF QUANTITIES

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

Revised 5-18-67
" 7-25-67 - Quant' 016001, 052016, 059001 066095, 066211, 066280

CEM REV. 8-1-67 Removed Proj. No. from Summary of Quant.

(AS REVISED)

SUMMARY OF QUANTITIES

SECTION 82-3HVB-3

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	FEDERAL PARTICIPATION B X531 QUANTITY	FEDERAL PARTICIPATION R 7223 QUANTITY	FEDERAL PARTICIPATION R Y002 QUANTITY	FEDERAL PARTICIPATION R Y030 QUANTITY	STATE WORK B X531 QUANTITY	STATE WORK R 7223 QUANTITY	STATE WORK R Y002 QUANTITY	STATE WORK R Y030 QUANTITY
010001	TREE REMOVAL (6 TO 15) INCH DIAMETER)	IN. DIA.	2,072	-	880	-	-	-	1,192	-	-
010002	TREE REMOVAL (OVER 15 INCH DIAMETER)	IN. DIA.	1,070	-	526	-	-	-	544	-	-
014001	SPECIAL EXCAVATION	CU. YD.	6,083	-	986	-	-	-	5,097	-	-
016001	EMBANKMENT	CU. YD.	26,591	-	177	-	-	-	26,414	-	-
020001	TRENCH BACKFILL	CU. YD.	257	-	58	-	-	-	199	-	-
024016	STABILIZED SUB-BASE 4"	SQ. YD.	13,049	-	2,047	-	-	-	11,002	-	-
024018	SUB-BASE, GRANULAR MATERIAL, TYPE C	TON	1,323	-	22	-	-	-	1,301	-	-
027001	TOP SOIL	CU. YD.	358	-	6	-	-	-	352	-	-
029001	GRAVEL OR CRUSHED STONE BASE COURSE, TYPE A	TON	22	-	6	-	-	-	16	-	-
032004	PORTLAND CEMENT CONCRETE ~~BASE COURSE, 7"~~	~~SQ. YD.~~	~~749~~	-	-	-	-	-	749	-	-
046001	BITUMINOUS MATERIALS (PRIME COAT)	GAL.	252	-	-	-	-	-	252	-	-
046003	MIXTURE FOR CRACKS, JOINTS AND FLANGEWAYS	TON	5	-	-	-	-	-	5	-	-
046004	LEVELING BINDER (MACHINE METHOD)	TON	10	-	-	-	-	-	10	-	-
046005	LEVELING BINDER (HAND METHOD)	TON	10	-	-	-	-	-	10	-	-
046006	BITUMINOUS CONCRETE BINDER COURSE	TON	367	-	-	-	-	-	367	-	-
046007	BITUMINOUS CONCRETE SURFACE COURSE, SUB-CLASS I-11	TON	322	-	-	-	-	-	322	-	-
048006	PORTLAND CEMENT CONCRETE PAVEMENT, 8"	SQ. YD.	3,981	-	1803	-	-	-	2,178	-	-
048008	PORTLAND CEMENT CONCRETE PAVEMENT, 10"	SQ. YD.	1,841	-	-	-	-	-	1,841	-	-
048011	PORTLAND CEMENT CONCRETE PAVEMENT 16 1/2 - 10 1/2 - 16 1/2	SQ. YD.	294	-	-	-	-	-	294	-	-
048012	PORTLAND CEMENT CONCRETE PAVEMENT 16 1/2 - 12 - 16 1/2	SQ. YD.	71	-	71	-	-	-	-	-	-
048019	PAVEMENT FABRIC	SQ. YD.	5,822	-	1,803	-	-	-	4,019	-	-
048027	CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT, 8"	SQ. YD.	4,866	-	-	-	-	-	4,866	-	-
048043	~~PAVEMENT REINFORCEMENT (8")~~	~~SQ. YD.~~	~~4,866~~	-	-	-	-	-	4,866	-	-
050001	CLASS A EXCAVATION FOR STRUCTURES	CU. YD.	5,551	5,551	-	-	-	-	-	-	-
052003	CLASS X CONCRETE	CU. YD.	9,893	9,887	1	-	-	-	5	-	-
052016	CLASS X CONCRETE (HEADWALL)	CU. YD.	1	-	-	-	-	-	1	-	-
052021	PROTECTIVE COAT	SQ. YD.	31,012	18,860	2,210	-	-	-	9,942	-	-
054002	FURNISHING STRUCTURAL STEEL	POUND	5,381,570	5,381,570	-	-	-	-	-	-	-
054003	ERECTING STRUCTURAL STEEL	POUND	5,381,570	5,381,570	-	-	-	-	-	-	-
059001	REINFORCEMENT BARS	POUND	1,969,842	1,948,310	5,713	-	-	-	15,819	-	-
060004	FURNISHING CREOSOTED PILES (UP TO 20')	LIN. FT.	496	256	-	-	-	-	240	-	-
060005	FURNISHING CREOSOTED PILES 20.1 TO 38 FEET	LIN. FT.	104	104	-	-	-	-	-	-	-
060008	DRIVING TIMBER PILES	LIN. FT.	600	360	-	-	-	-	240	-	-
060043	DRIVING CONCRETE PILES	LIN. FT.	45,113	45,113	-	-	-	-	-	-	-
060044	FURNISHING CONCRETE PILES	LIN. FT.	45,113	45,113	-	-	-	-	-	-	-
060047	TEST PILE CONCRETE	EACH	39	39	-	-	-	-	-	-	-
060106	PILE SPLICES FOR CONCRETE PILES	EACH	300	300	-	-	-	-	-	-	-
061001	NAME PLATES	EACH	1	1	-	-	-	-	-	-	-
063003	CORRUGATED METAL PIPE 12"	LIN. FT.	196	-	91	-	-	-	105	-	-

Rev. 7-10-68 added 7 Cu. Yds Class X Conc. and 660 lbs. reinf. S.F.M.

SUMMARY OF QUANTITIES

SECTION 82-3HVB-3

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	FEDERAL PARTICIPATION B X531 QUANTITY	FEDERAL PARTICIPATION R 7223 QUANTITY	FEDERAL PARTICIPATION R Y002 QUANTITY	FEDERAL PARTICIPATION R Y030 QUANTITY	STATE WORK B X531 QUANTITY	STATE WORK R 7223 QUANTITY	STATE WORK R Y002 QUANTITY	STATE WORK R Y030 QUANTITY
066095	STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN AND SEWER PIPE, CLASS III, 12"	LIN. FT.	27	-	-	-	-	-	27	-	-
066210	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN AND SEWER PIPE, CLASS II, 12"	LIN. FT.	252	-	158	-	-	-	94	-	-
066211	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN AND SEWER PIPE, CLASS II, 15"	LIN. FT.	253	-	-	-	-	-	253	-	-
066212	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN AND SEWER PIPE, CLASS II, 18"	LIN. FT.	110	-	-	-	-	-	110	-	-
066280	STORM SEWERS, TYPE 3, REINFORCED CONCRETE CULVERT, STORM DRAIN AND SEWER PIPE, CLASS III, 15"	LIN. FT.	220	-	-	-	-	-	220	-	-
075017	CATCH BASIN, TYPE A, 4' DIAMETER, TYPE 3 FRAME	EACH	8	-	2	-	-	-	6	-	-
075021	CATCH BASIN, TYPE A, 4' DIAMETER, TYPE 8 GRATE	EACH	4	-	-	-	-	-	4	-	-
075051	MANHOLES, TYPE A, 4' DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	-	1	-	-	-	1	-	-
075100	INLETS, TYPE A, TYPE 3 FRAME	EACH	3	-	2	-	-	-	1	-	-
075105	INLETS, TYPE A, TYPE 10 FRAME	EACH	3	-	1	-	-	-	2	-	-
076003	MANHOLES TO BE ADJUSTED	EACH	6	-	-	-	-	-	6	-	-
076004	MANHOLES TO BE RECONSTRUCTED	EACH	1	-	1	-	-	-	-	-	-
076015	INLETS TO BE ADJUSTED WITH NEW TYPE 3 FRAME	EACH	1	-	-	-	-	-	1	-	-
079003	FILLING EXISTING INLETS	EACH	3	-	1	-	-	-	2	-	-
080092	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	LIN. FT.	3,957	-	1,209	-	-	-	2,748	-	-
080094	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.06	LIN. FT.	58	-	-	-	-	-	58	-	-
080095	CONCRETE CURB, TYPE B	LIN. FT.	50	-	-	-	-	-	50	-	-
080106	CONCRETE CURB, TYPE B (MOD)	LIN. FT.	35	-	-	-	-	-	35	-	-
083002	SLOPE WALL 4 INCH	SQ. YD.	774	774	-	-	-	-	-	-	-
085016	PAVEMENT REMOVAL AND BITUMINOUS REPLACEMENT, TYPE I, 8 INCH.	SQ. YD.	14	-		-	-	-	14	-	-
085019	PAVEMENT REMOVAL AND BITUMINOUS REPLACEMENT, TYPE III, 8 INCHES	SQ. YD.	19	-	19	-	-	-		-	-
089003	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	SQ. FT.	3,289	-	84	-	-	-	3,205	-	-

LEGEND FOR "LOCATION OF WORK"

R=ROADWAY

Goodrich-Piggott Connector
Sta. 3+82 to Sta. 9+64

Tudor-Piggott Connector
Sta. 4+78 to Sta. 13+65

Roadway A
Sta. 93+8.49 to Sta. 103+75

Roadway D
Sta. 81+80; Sta. 92+94.23 to Sta. 102+36

Ramp T
Sta. 9+65; Sta. 11+88 to Sta. 12+27.83

Temporary Roadway A
Sta. 95+49.75 to Sta. 103+32

Temporary Roadway D
Sta. 94+10.81 to Sta. 101+93

B=BRIDGE

Roadway A
Sta. 78+44 to Sta. 93+81.49

Roadway D
Sta. 81+63 to Sta. 92+94.23

Ramp S
Sta. 20+42 to Sta. 34+52.41

Ramp T
Sta. 0+00 to Sta. 11+88

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

SUMMARY OF QUANTITIES

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

Revised 5-18-67
" 7-25-67 - Quant. 016001, 052016, 059001, 066095, 066211, 066280

CEM Rev. 8-1-67 Removed Proj. No. from Summary of Quant.

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.T.70	82-3HVB-3	ST. CLAIR	262	4A
FED. ROAD DIV. N. 4	ILLINOIS	PROJECT		

(AS REVISED)

SUMMARY OF QUANTITIES

SECTION 82-3HVB-3

LOCATION OF WORK (See Legend)											
			FEDERAL PARTICIPATION				STATE WORK			
			B	R			B	R		
CONSTRUCTION TYPE CODE			X531	7223	Y002	Y030	X531	7223	Y002	Y030
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
				-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-
066095	STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN AND SEWER PIPE, CLASS III, 12"	LIN. FT.	27	-	-	-	-	-	27	-	-
066219	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN AND SEWER PIPE, CLASS II, 12"	LIN. FT.	252	-	158	-	-	-	94	-	-
066211	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN AND SEWER PIPE, CLASS II, 15"	LIN. FT.	253	-	-	-	-	-	253	-	-
066212	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN AND SEWER PIPE, CLASS II, 18"	LIN. FT.	110	-	-	-	-	-	110	-	-
066260	STORM SEWERS, TYPE 3, REINFORCED CONCRETE CULVERT, STORM DRAIN AND SEWER PIPE, CLASS III, 15"	LIN. FT.	220	-	-	-	-	-	220	-	-
075017	CATCH BASIN, TYPE A, 4' DIAMETER, TYPE 3 FRAME	EACH	8	-	2	-	-	-	6	-	-
075021	CATCH BASIN, TYPE A, 4' DIAMETER, TYPE 8 GRATE	EACH	4	-	-	-	-	-	4	-	-
076031	MANHOLES, TYPE A, 4' DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	-	1	-	-	-	1	-	-
076100	INLETS, TYPE A, TYPE 3 FRAME	EACH	3	-	2	-	-	-	1	-	-
075105	INLETS, TYPE A, TYPE 10 FRAME	EACH	3	-	1	-	-	-	2	-	-
076003	MANHOLES TO BE ADJUSTED	EACH	6	-	-	-	-	-	6	-	-
076004	MANHOLES TO BE RECONSTRUCTED	EACH	1	-	1	-	-	-	-	-	-
076015	INLETS TO BE ADJUSTED WITH NEW TYPE 3 FRAME	EACH	1	-	-	-	-	-	1	-	-
079003	FILLING EXISTING INLETS	EACH	3	-	1	-	-	-	2	-	-
080092	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	LIN. FT.	3,957	-	1,209	-	-	-	2,748	-	-
080094	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.06	LIN. FT.	58	-	-	-	-	-	58	-	-
080095	CONCRETE CURB, TYPE B	LIN. FT.	50	-	-	-	-	-	50	-	-
080106	CONCRETE CURB, TYPE B (MOD)	LIN. FT.	35	-	-	-	-	-	35	-	-
083002	SLOPE WALL 4 INCH	SQ. YD.	774	774	-	-	-	-	-	-	-
085016	PAVEMENT REMOVAL AND BITUMINOUS REPLACEMENT, TYPE I, 9" HIGH.	SQ. YD.	14	-	-	-	-	-	14	-	-
085019	PAVEMENT REMOVAL AND BITUMINOUS REPLACEMENT, TYPE III, 8 INCHES	SQ. YD.	19	-	19	-	-	-	-	-	-
089003	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	SQ. FT.	3,289	-	84	-	-	-	3,205	-	-

LEGEND FOR "LOCATION OF WORK"

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Sta. 3+62 to Sta. 9+64

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Roadway D
Sta. 81+80; Sta. 92+94.23 to Sta. 102+36

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Sta. 9+65; Sta. 11+88 to Sta. 12+27.83

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

SUMMARY OF QUANTITIES

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

QUANTITIES

SECTION 82-3HVB-3

(See Legend)			FEDERAL PARTICIPATION				STATE WORK			
			B	R			B	R		
TYPE CODE			X531	7223	Y002	Y030	X531	7223	Y002	Y030
	UNIT	TOTAL QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
CH	IN. DIA.	2,072	-	880	-	-	-	1,192	-	-
ICH	IN. DIA.	1,070	-	526	-	-	-	544	-	-
	CU. YD.	6,083	-	986	-	-	-	5,097	-	-
	CU. YD.	26,591	-	177	-	-	-	26,414	-	-
	CU. YD.	257	-	58	-	-	-	199	-	-
	SQ. YD.	13,049	-	2,017	-	-	-	11,062	-	-
	TON	1,323	-	22	-	-	-	1,301	-	-
	CU. YD.	358	-	6	-	-	-	352	-	-
	TON	22	-	6	-	-	-	16	-	-
TE	SQ. YD.	749	-	-	-	-	-	749	-	-
	GAL.	252	-	-	-	-	-	252	-	-
	TON	5	-	-	-	-	-	5	-	-
	TON	10	-	-	-	-	-	10	-	-
	TON	10	-	-	-	-	-	10	-	-
DER	TON	367	-	-	-	-	-	367	-	-
FACE	TON	322	-	-	-	-	-	322	-	-
TE	SQ. YD.	3,981	-	1803	-	-	-	2,178	-	-
TE	SQ. YD.	1,841	-	-	-	-	-	1,841	-	-
TE	SQ. YD.	294	-	-	-	-	-	294	-	-
TE 6 1/2	SQ. YD.	71	-	71	-	-	-	-	-	-
	SQ. YD.	5,822	-	1,803	-	-	-	4,019	-	-
	SQ. YD.	4,866	-	-	-	-	-	4,866	-	-
	SQ. YD.	4,866	-	-	-	-	-	4,866	-	-
	CU. YD.	5,551	5,551	-	-	-	-	-	-	-
	CU. YD.	9,893	9,887	1	-	-	-	5	-	-
ALL)	CU. YD.	1	-	-	-	-	-	1	-	-
	SQ. YD.	31,012	18,860	2,210	-	-	-	9,942	-	-
	POUND	5,381,570	5,381,570	-	-	-	-	-	-	-
	POUND	5,381,570	5,381,570	-	-	-	-	-	-	-
	POUND	1,969,862	1,948,810	5,713	-	-	-	15,819	-	-
ES	LIN. FT.	496	256	-	-	-	-	240	-	-
ES	LIN. FT.	104	104	-	-	-	-	-	-	-
	LIN. FT.	600	360	-	-	-	-	240	-	-
	LIN. FT.	45,113	45,113	-	-	-	-	-	-	-
S	LIN. FT.	45,113	45,113	-	-	-	-	-	-	-
	EACH	39	39	-	-	-	-	-	-	-
PILES	EACH	300	300	-	-	-	-	-	-	-
	EACH	1	1	-	-	-	-	-	-	-
12"	LIN. FT.	196	-	91	-	-	-	105	-	-

Class X Conc. and 600 lbs. reinf. S.F.M.

Revised 5-18-67
" 7-25-67 - Quant. 016001, 052016, 053001, 066095, 066211, 066280

CEM REV. 8-1-67 Removed Proj. No. From Summary of Quant.

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F. A. I. 70	82-3HVB-3	ST. CLAIR	262	5
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		

* CONSTRUCTION TYPE CODE: Y005
** CONSTRUCTION TYPE CODE: CE 58

SUMMARY OF QUANTITIES

SECTION 82-3HVB-3

	LOCATION OF WORK (See Legend)				FEDERAL PARTICIPATION B	FEDERAL PARTICIPATION R			STATE WORK B	STATE WORK R		
	CONSTRUCTION TYPE CODE				X531	7223	Y002	Y030	X531	7223	Y002	Y030
	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
	094001	STEEL PLATE BEAM GUARD RAIL	LIN. FT.	762.5	-	512.5	-	-	-	250	-	-
	075111	INLET (STD. 1258R-1)	EACH	1	-	-	-	-	-	1	-	-
	094026	DOUBLE STEEL PLATE BEAM GUARD RAIL	LIN. FT.	612.5	-	-	-	-	-	612.5	-	-
	095015	CHAIN LINK FENCE, 4'	LIN. FT.	105	-	105	-	-	-	-	-	-
S	106036	ELECTRIC CABLE IN CONDUIT, 600 V (NEOPRENE-RUBBER INSULATED) 1/C NO. 10	LIN. FT.	3,032	-	-	-	2,358	-	-	-	674
S	106038	ELECTRIC CABLE IN CONDUIT, 600 V (NEOPRENE-RUBBER INSULATED 1/C NO. 6	LIN. FT.	11,721	-	-	-	11,721	-	-	-	-
	110025	. SEEDING, CLASS II*	ACRE	0.2	-	-	-	-	-	0.2	-	-
	113014 113015 113016	NITROGEN FERTILIZER NUTRIENTS PHOSPHORUS FERTILIZER *NUTRIENTS POTASSIUM FERTILIZER NUTRIENTS	POUNDS POUNDS POUNDS	24 14 10	-	-	-	-	-	24 14 10	-	-
	111002	STRAW FOR ASPHALT-COATED MULCH *	TON	0.4	-	-	-	-	-	0.4	-	-
	111003	EMULSIFIED ASPHALT *	GAL.	30	-	-	-	-	-	30	-	-
	112001	SODDING *	SQ. YD.	14,345	-	40	-	-	-	14,305	-	-
	112002	SUPPLEMENTAL WATERING *	UNIT	119	-	4	-	-	-	115	-	-
	058964	PIPE CULVERTS, TYPE 1A, RCCP 24"	LIN. FT.	55	-	-	-	-	-	55	-	-
S	L00006	CONDUIT IN TRENCH, 2" DIA. GALVANIZED STEEL	LIN. FT.	33	-	-	-	33	-	-	-	-
S	L00008	CONDUIT IN TRENCH, 3" DIA. GALVANIZED STEEL	LIN. FT.	292	-	-	-	140	-	-	-	152
S	L00052	CONDUIT ATTACHED TO STRUCTURE, 3/4" DIA., GALVANIZED STEEL	LIN. FT.	50	-	-	-	50	-	-	-	-
S	L00053	CONDUIT ATTACHED TO STRUCTURE, 1" DIA., GALVANIZED STEEL	LIN. FT.	170	-	-	-	170	-	-	-	-
S	L00054	CONDUIT ATTACHED TO STRUCTURE, 1 1/4" DIA., GALVANIZED STEEL	LIN. FT.	130	-	-	-	130	-	-	-	-
S	L00056	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL	LIN. FT.	4,080	-	-	-	4,080	-	-	-	-
S	L00057	CONDUIT ATTACHED TO STRUCTURE, 2 1/2" DIA., GALVANIZED STEEL	LIN. FT.	70	-	-	-	70	-	-	-	-
S	L00058	CONDUIT ATTACHED TO STRUCTURE, 3" DIA., GALVANIZED STEEL	LIN. FT.	8	-	-	-	8	-	-	-	-
S	L00110	CONDUIT IN CONCRETE, 1" DIA., GALVANIZED STEEL	LIN. FT.	102	-	-	-	102	-	-	-	-
S	L01254	POLE, ALUMINUM, ANCHOR BASE, 34 FT MH 4 FT MAST ARM	EACH	17	-	-	-	17	-	-	-	-
S	L05114	POLE, ALUMINUM, TRANSFORMER BASE, 36 FT MH 15 FT MAST ARM	EACH	5	-	-	-	-	-	-	-	5
S	L05130	POLE, ALUMINUM, TRANSFORMER BASE, 36 FT MH, 12 FT MAST ARM	EACH	2	-	-	-	-	-	-	-	2
S	L02200	POLE FOUNDATION	EACH	7	-	-	-	-	-	-	-	7
S	L02403	LUMINAIRE, MERCURY VAPOR, WITH BUILT-IN REGULATOR BALLAST 400 WATTS	EACH	24	-	-	-	17	-	-	-	7
S	L02812	LAMP, MERCURY VAPOR 400 WATTS, TYPE H33-1-CD	EACH	24	-	-	-	17	-	-	-	7
S	L05171	CONTROL INSTALLATION (CONTROL CENTER NO. 4)	L. SUM	1	-	-	-	1	-	-	-	-

SUMMARY OF QUANTITIES

SECTION 82-3HVB-3

	LOCATION OF WORK (See Legend)				FEDERAL PARTICIPATION B	FEDERAL PARTICIPATION R			STATE WORK B	STATE WORK R		
	CONSTRUCTION TYPE CODE				X531	7222	Y002	Y030	X531	7223	Y002	Y030
	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
S	L04300	TRENCH AND BACKFILL	LIN. FT.	1,575	-	-	-	-	-	-	-	1,575
S	L04915	LAMP, MERCURY VAPOR, 250 WATTS, TYPE H37-5KB	EACH	3	-	-	-	3	-	-	-	-
S	106163	ELECTRIC CONDUCTOR IN TRENCH (BARE ANNEALED COPPER) NO. 6	LIN. FT.	380	-	-	-	-	-	-	-	380
S	106174	ELECTRIC CONDUCTOR IN CONDUIT (BARE ANNEALED COPPER) NO. 6	LIN. FT.	602	-	-	-	602	-	-	-	-
S	L05172	LUMINAIRE, MERCURY VAPOR, UNDERPASS TYPE, 250 WATTS	EACH	3	-	-	-	3	-	-	-	-
S	L05077	ELECTRIC CABLE, UNIT DUCT, 2-600V THW #6 1" POLYETHYLENE	LIN. FT.	618	-	-	-	-	-	-	-	618
S	L05078	ELECTRIC CABLE, UNIT DUCT, 3-600V THW #6 1" POLYETHYLENE	LIN. FT.	1,098	-	-	-	-	-	-	-	1,098
S	L05066	SYSTEM GROUNDING	L. SUM	1	-	-	-	1	-	-	-	-
	Z00004	ALUMINUM HANDRAIL	LIN. FT.	7,585	7,585	-	-	-	-	-	-	-
	Z01382	STABILIZED SHOULDERS (10")	SQ. YD.	2,110	-	70	-	-	-	2,040	-	-
	Z01394	STABILIZED SHOULDERS (8")	SQ. YD.	2,892	-	-	-	-	-	2,892	-	-
	Z01023	BRIDGE SEAT SEALANT	L. SUM	1	1	-	-	-	-	-	-	-
	Z01065	RAILROAD PROTECTIVE SERVICES	L. SUM	1	1	-	-	-	-	-	-	-
	Z01296	BITUMINOUS CONCRETE CURB	LIN. FT.	464	-	-	-	-	-	464	-	-
	Z01356	LUGS	EACH	8	-	-	-	-	-	8	-	-
	Z01398	ENGINEER'S FIELD OFFICE, TYPE A **	EACH	1	1	-	-	-	-	-	-	-
	Z01379	ENGINEER'S FIELD LABORATORY**	EACH	1	1	-	-	-	-	-	-	-
S	Z20199	SIGN PANEL, REFLECTORIZED	SQ. FT.	524	-	-	524	-	-	-	-	-
S	Z20208	CAPITAL LETERS AND NUMERALS 16"	EACH	8	-	-	8	-	-	-	-	-
S	Z20228	LOWER CASE LETTERS 12"	EACH	36	-	-	36	-	-	-	-	-
S	Z20253	BORDER 2"	LIN. FT.	179	-	-	179	-	-	-	-	-
S	Z20274	CONCRETE FOUNDATIONS	CU. YD.	24.4	-	-	24.4	-	-	-	-	-
S	Z20316	~~STANDARD SIGNS R1-1-30~~	EACH	11	-	-	-	-	-	-	11	-
S	Z20326	STANDARD SIGNS R2-1-4860	EACH	8	-	-	6	-	-	-	2	-
S	Z20355	STANDARD SIGNS R3-1-2430	EACH	2	-	-	-	-	-	-	2	-
S	Z20356	STANDARD SIGNS R3-1-3648	EACH	1	-	-	-	-	-	-	1	-
S	Z20358	STANDARD SIGNS R3-2-2430	EACH	6	-	-	-	-	-	-	6	-
S	Z20393	STANDARD SIGNS R5-1-3636	EACH	5	-	-	2	-	-	-	3	-
S	Z20400	STANDARD SIGNS R6-2-1824	EACH	9	-	-	-	-	-	-	9	-
S	Z20402	STANDARD SIGNS R6-4-2430	EACH	1	-	-	-	-	-	-	1	-
S	Z20951	STANDARD SIGNS R6-6-3624	EACH	6	-	-	6	-	-	-	-	-
S	Z20494	STANDARD SIGNS W4-1-48	EACH	2	-	-	2	-	-	-	-	-
S	Z20575	STANDARD SIGNS M1-2-2424	EACH	1	-	-	-	-	-	-	1	-
S	Z20589	STANDARD SIGNS M1-3-2424	EACH	4	-	-	-	-	-	-	4	-
S	Z20966	STANDARD SIGNS M1-30(1)-3636	EACH	8	-	-	8	-	-	-	-	-

S - *INDICATES SPECIALTY ITEMS*

LEGEND FOR "LOCATION OF WORK"

R=ROADWAY

Goodrich-Piggott Connector
Sta. 3+82 to Sta. 9+84

Tudor-Piggott Connector
Sta. 4+78 to Sta. 13+85

Roadway A
Sta. 93+8.49 to Sta. 103+75

Roadway D
Sta. 81+80; Sta. 92+94.23 to Sta. 102+36

Ramp T
Sta. 9+65; Sta. 11+88 to Sta. 12+27.83

Temporary Roadway A
Sta. 95+49.75 to Sta. 103+32

Temporary Roadway D
Sta. 94+10.81 to Sta. 101+93

B=BRIDGE

Roadway A
Sta. 78+44 to Sta. 93+81.49

Roadway D
Sta. 81+63 to Sta. 92+94.23

Ramp S
Sta. 20+42 to Sta. 34+52.41

Ramp T
Sta. 0+00 to Sta. 11+88

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

SUMMARY OF QUANTITIES

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

CBM 7-25-67 Revised Items 094001, 106036, 110025, 113014, 113015, 113016, 112001, Z01382, Z01394, Z20920, Z20[illegible]
DELETED Items 110026, L01249, L01227, L01246, L01269
Added Items 075111, L01254, L05114, L05130

CBM Rev. 8-1-67 Rem. Proj. No. From Summary of Quant.

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB-3	ST. CLAIR	262	6
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		

SUMMARY OF QUANTITIES

SECTION 82-3HVB-3

					FEDERAL PARTICIPATION				STATE WORK			
	LOCATION OF WORK (See Legend)				B	R			B	R		
	CONSTRUCTION TYPE CODE				X531	7223	Y002	Y030	X531	7223	Y002	Y030
	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
S	Z20651	STANDARD SIGNS M4-2BL-2115	EACH	2	-	-	-	-	-	-	2	-
S	Z20707	STANDARD SIGNS M6-1-219	EACH	1	-	-	-	-	-	-	1	-
S	Z20965	STANDARD SIGNS M7-1B-1812	EACH	2	-	-	-	-	-	-	2	-
S	Z20786	STANDARD SIGNS I3-20-2424	EACH	1	-	-	-	-	-	-	1	-
S	Z20787	STANDARD SIGNS I3-21-2424	EACH	2	-	-	-	-	-	-	2	-
S	Z20807	WOOD SIGN POSTS - 6", 14'	EACH	8	-	-	-	-	-	-	8	-
S	Z20808	WOOD SIGN POSTS - 6", 16'	EACH	21	-	-	8	-	-	-	13	-
S	Z20809	WOOD SIGN POSTS - 6", 18'	EACH	12	-	-	2	-	-	-	10	-
S	Z20810	WOOD SIGN POSTS - 6", 20'	EACH	2	-	-	-	-	-	-	2	-
S	Z20820	ARROW SYMBOL 22" X 32"	EACH	4	-	-	4	-	-	-	-	-
S	Z20823	ARROW SYMBOL 35 5/8" X 22 1/4"	EACH	1	-	-	1	-	-	-	-	-
S	Z20937	SIGN TRUSS LIGHTING	L. SUM	1	-	-	1	-	-	-	-	-
		ALTERNATE 'A'										
S	Z20854	OVERHEAD SIGN STRUCTURE TYPE II-A (4'-6" X 5'-3")	LIN. FT.	63.6	-	-	63.6	-	-	-	-	-
S	Z20920	OVERHEAD SIGN STRUCTURE TYPE III-A (4'-6" X 6'-0")	LIN. FT.	64	-	-	64	-	-	-	-	-
S	Z20855	OVERHEAD SIGN WALKWAY, TYPE A	LIN. FT.	79	-	-	79	-	-	-	-	-
		ALTERNATE 'B'										
S	Z20856	OVERHEAD SIGN STRUCTURE TYPE II-S (4'-6" X 5'-3")	LIN. FT.	63.6	-	-	63.6	-	-	-	-	-
S	Z20921	OVERHEAD SIGN STRUCTURE TYPE III-S (4'-6" X 6'-0")	LIN. FT.	64	-	-	64	-	-	-	-	-
S	Z20857	OVERHEAD SIGN WALKWAY, TYPE S	LIN. FT.	79	-	-	79	-	-	-	-	-

S- INDICATES SPECIALTY ITEMS

LEGEND FOR "LOCATION OF WORK"

R=ROADWAY

Goodrich-Piggott Connector
Sta. 3+82 to Sta. 9 +84

Tudor-Piggott Connector
Sta. 4+78 to Sta. 13+85

Roadway A
Sta. 93+8.49 to Sta. 103+75

Roadway D
~~Sta. 81+80;~~ Sta. 92+94.23 to Sta. 102+36

Ramp T
Sta. 9+65; Sta. 11+88 to Sta. 12+27.83

Temporary Roadway A
Sta. 95+49.75 to Sta. 103+52

Temporary Roadway D
Sta. 94+10.81 to Sta. 101+95

B=BRIDGE

Roadway A
Sta. 73+44 to Sta. 93+81.49

Roadway D
Sta. 81+63 to Sta. 92+94.23

Ramp S
Sta. 20+42 to Sta. 34+52.11

Ramp T
Sta. 0+00 to Sta. 11+88

BITUMINOUS MATERIALS

SHEET NO.	LOCATION DESCRIPTION	Bituminous Materials (Prime Coat)	Bituminous Concrete Binder Course	Bituminous Concrete Surface Course Subclass I-11	Leveling Binder (Machine Method)	Leveling Binder (Hand Method)	Mixture for Cracks, Joints and Flangeways
		Gals.	Tons	Tons	Tons	Tons	Tons
MAIN LINE SHEET 9	TEMPORARY ROADWAY A STA. 95+49.75 TO STA. 98+05	0/14	0/87	0/54			0/0.5
	TEMPORARY ROADWAY A STA. 101+43 TO STA. 102+87	0/10	0/11	0/11		0/2	0/0.5
	TEMPORARY ROADWAY D STA. 94+10.81 TO STA. 96+66	0/14	0/107	0/54			0/0.5
	TEMPORARY ROADWAY D STA. 100+10 TO STA. 101+45	0/9	0/9	0/9		0/2	0/0.5
TUDOR AVE. TO PIGGOTT AVE. CONNECTOR SHEET 11	TUDOR-PIGGOTT CON. STA. 4+78 TO STA. 8+38	0/175	0/150	0/162	0/10	0/4	0/2
	TUDOR-PIGGOTT CON. STA. 11+78 TO STA. 13+85	0/30	0/3	0/32		0/2	0/1
	TOTALS	0/252	0/367	0/322	0/10	0/10	0/5

APPROACH SLAB QUANTITIES STANDARD PARTICIPATION 2138-4 (METHOD II)

APPROACH SLAB NO.	LOCATION	STATION TO STATION	PAVEMENT – ONE END OF BRIDGE: SKEW ANGLE	TRANSVERSE BARS #5 NO.	TRANSVERSE BARS #5 LENGTH	LONGITUDINAL BARS #9 NO. LENGTH	TOTAL WEIGHT OF BARS LBS.	PAVEMENT 16½"–12"–5½" SQ.YDS	DIMENSION 'A' L'TH	R.C. CAP – ONE CAP: LENGTH FT.	NET VOLUME CU.YDS	STIRRUP BARS #4 5FT. LONG NO.	BEAM BARS #8 NO	BEAM BARS #8 LENGTH	TOTAL WEIGHT OF BARS LBS.
10	Ramp "T"	11+88.00 to 12+27.50	0°	66	15'-6"	42 of 21'-6" lg. 20 of 17'-6" lg.	5325	70.5	6'-0"	16.00	1.11	14	8	15'-9"	388

APPROACH SLAB QUANTITIES STANDARD NONPARTICIPATION 1909-6 (METHOD II)

APPROACH SLAB NO.	LOCATION	STATION TO STATION	PAVEMENT – ONE END OF BRIDGE: SKEW ANGLE	TRANSVERSE BARS #5 NO.	TRANSVERSE BARS #5 LENGTH	LONGITUDINAL BARS #8 NO. LENGTH	TOTAL WEIGHT OF BARS LBS.	PAVEMENT 16½"–10½"–16½" SQ.YDS	DIMENSION 'A' L'TH	R.C. CAP – ONE CAP: LENGTH FT.	NET VOLUME CU.YDS	STIRRUP BARS #4 5FT. LONG NO.	BEAM BARS #8 NO	BEAM BARS #8 LENGTH	TOTAL WEIGHT OF BARS LBS.
31	Rdwy "A"	93+81.49 to 94+36.67	52°	84	19'-9"	62 of 21'-4" lg. 36 of 17'-4" lg.	6936	147.8	8'-0"	38.69	2.69	30	16	20'-3"	970
32	Rdwy "D"	92+94.23 to 93+49.11	51°	86	19'-4"	62 of 21'-4" lg. 36 of 17'-4" lg.	6930	146.3	8'-0"	38.24	2.65	30	16	20'-0"	948

SCHEDULE OF CLASS X CONCRETE AND REINFORCEMENT BARS

LOCATION	ITEM	CU. YDS.	LBS.
* ROADWAY A STA. 93+73 LT.	1-HDWL. STD. 1973-D12-2	0/0.5	0/0
* ROADWAY A STA. 93+06 RT.	1-HDWL. STD. 1973-D12-2	0/0.5	0/0
* ROADWAY A STA. 103+00 ℄	1-HDWL. STD. 1976-D24-2	0/1.0	0/35
RAMP T STA. 11+80 TO STA. 12+27.50	APPROACH SLAB PIPE CAPS	1/0	5,713/0
ROADWAY A STA. 93+81.49 TO STA. 94+36.67	APPROACH SLAB PILE CAPS	0/2.5	0/7,906
ROADWAY D STA. 92+94.23 TO STA. 93+49.11	APPROACH SLAB PILE CAPS	0/2.5	0/7,678
	BRIDGES	9,880/0	1,947,650/0
	*CLASS X CONCRETE (HDWL) =	0/2	0/35
	CLASS X CONCRETE =	9,881/5	1,953,363/15,819
	TOTAL CLASS X CONCRETE (HDWL) =	2	
	TOTAL CLASS X CONCRETE =	9,886	
	TOTAL REINFORCEMENT BARS =		1,969,182

NOTE: 6 PARTICIPATION OF INTERSTATE FUNDS / 16 NON-PARTICIPATION OF INTERSTATE FUNDS

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

SUMMARY OF QUANTITIES
SCHEDULE OF QUANTITIES
APPROACH SLABS, BITUMINOUS MATERIALS, CLASS 'X' CONCRETE & REIFORCEMENT BARS

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

CEM 8-2-67 Rev. Wood sign posts -18' from 17 to 12 each

CEM Rev. 7-25-67

CEM Rev. 8-1-67 Rem. Proj. No. From Summary of Quant.

CEM 8-3-67 Pay Item - Std. Signs From M7-18-1812 to M7-1B-1812

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB-3	St. CLAIR	262	7
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		

CURB, GUTTER, SIDEWALK & MISC.

SHEET NO.	LOCATION DESCRIPTION	Steel Plate Beam Guard Rail (S.B.)	Chain Link Fence, 4'	Portland Cement Concrete Sidewalk 5 Inch	Combination Concrete Curb & Gutter Type B-6.24	Combination Concrete Curb & Gutter Type M-6.06	Concrete Curb Type B (Mod.)	Steel Plate Beam Guard Rail (Double Beam)	Bituminous Concrete Barrier Curb	Concrete Curb Type B
		Lin.Ft.	Lin.Ft.	Sq. Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin. Ft.	Lin.Ft.	Lin.Ft.
MAIN LINE SHEET 8	RAMP T STA. 9+65 RT.	25/0								
	RAMP T STA. 11+85 RT.		105/0							
	RAMP T STA. 12+05 LT. & RT.	437.5/0								
	ROADWAY D STA. 81+80 RT.	50/0								
	ROADWAY D STA. 87+30 RT.	0/25								
	ROADWAY D STA. 88+40 RT.	0/25								
MAIN LINE SHEET 9	ROADWAY A STA. 94+00 RT.							0/537.5		
	ROADWAY A STA. 95+24 LT.	0/75								
	TEMPORARY ROADWAY A STA. 96+38 TO STA. 98+70 RT.								0/232	
	TEMPORARY ROADWAY A STA. 99+38 TO STA. 103+32 RT. AND LT.				0/589					
	TEMPORARY ROADWAY A STA. 98+94 LT.	0/37.5								
	TEMPORARY ROADWAY D STA. 95+00 TO STA. 97+32 LT.								0/232	
	TEMPORARY ROADWAY D STA. 98+61 TO STA. 101+93 RT. AND LT.				0/525					
	TEMPORARY ROADWAY D STA. 98+06 RT.	0/50								
	ROADWAY A STA. 93+50 LT.	0/37.5								
	ROADWAY D									
GOODRICH AVE. TO PIGGOTT AVE. CONNECTOR SHEET 10	GOODRICH-PIGGOTT CON. STA. 3+82 TO STA. 9+84 RT. AND LT.				1209/0					
	GOODRICH-PIGGOTT CON. STA. 9+73 RT.			84/0						
TUDOR AVE. TO PIGGOTT AVE. CONNECTOR SHEET 11	TUDOR-PIGGOTT CON. STA. 5+07 TO STA. 13+66 RT. AND LT.				0/1634					0/50
	TUDOR-PIGGOTT CON. STA. 6+05 TO STA. 6+33 RT.					0/58				
	TUDOR-PIGGOTT CON. STA. 6+05 TO STA. 6+15 RT.						0/35			
	TUDOR-PIGGOTT CON. STA. 7+63 LT.							0/75		
	TUDOR-PIGGOTT CON. STA. 5+90 TO STA. 7+41 LT.			0/1035						
	TUDOR-PIGGOTT CON. STA. 7+50 TO STA. 11+77 RT.			0/2170						
	SUB-TOTALS	512.5/2500	105/0	84/3205	1209/2748	0/58	0/35	0/612.5	0/464	0/50
	TOTALS	762.5	105	3289	3957	58	35	612.5	464	50

SUB-BASE, SHOULDERS, PAVEMENT & MISC.

SHEET NO.	LOCATION DESCRIPTION	Stabilized Shoulders	Sub-base, Granular Material, Type C	Stabilized Sub-base 4"	Gravel or Crushed Stone Base Course - Type A	Portland Cement Concrete Base Course 9"	Portland Cement Concrete Pavement 8"	Portland Cement Concrete Pavement 10"	Continuously Reinforced Portland Cement Concrete Pavement 8"	Topsoil
		Sq. Yds.	Tons	Sq. Yds.	Tons	Sq. Yds.	Sq. Yds.	Sq. Yds.	Sq. Yds.	Cu. Yds.
MAIN LINE SHEET 8	RAMP T STA. 11+88 TO STA. 12+28	**70/0	22/0	42/0						6/0
MAIN LINE SHEET 9	ROADWAY A STA. 93+82 TO STA.103+75	0/*1506	0/458	0/2875					0/2502	0/123
	ROADWAY D STA. 92+94 TO STA.102+36	0/*1586	0/427	0/2718					0/2364	0/117
	TEMPORARY ROADWAY A STA. 95+75 TO STA. 103+32	0/**1020	0/208	0/1439		0/328		0/919		0/56
	TEMPORARY ROADWAY D STA. 94+36 TO STA. 101+93	0/**1020	0/208	0/1421		0/307		0/922		0/56
GOODRICH AVE. TO PIGGOTT AVE. CONNECTOR SHEET 10	GOODRICH-PIGGOTT CON. STA. 3+82 TO STA. 9+84			2005/0	6/0		1801/0			
TUDOR AVE. TO PIGGOTT AVE. CONNECTOR SHEET 11	TUDOR-PIGGOTT CON. STA. 5+07 TO STA. 13+66			0/2549	0/16	0/114	0/2178			
	SUB-TOTALS	70/4932	22/1301	3047/11002	6/16	0/749	1803/2178	0/1841	0/4866	6/352
	TOTALS	5002	1323	13049	22	749	3981	1841	4866	358

* 8"
** 10"

NOTE: 6/16 PARTICIPATION OF INTERSTATE FUNDS
NON-PARTICIPATION OF INTERSTATE FUNDS

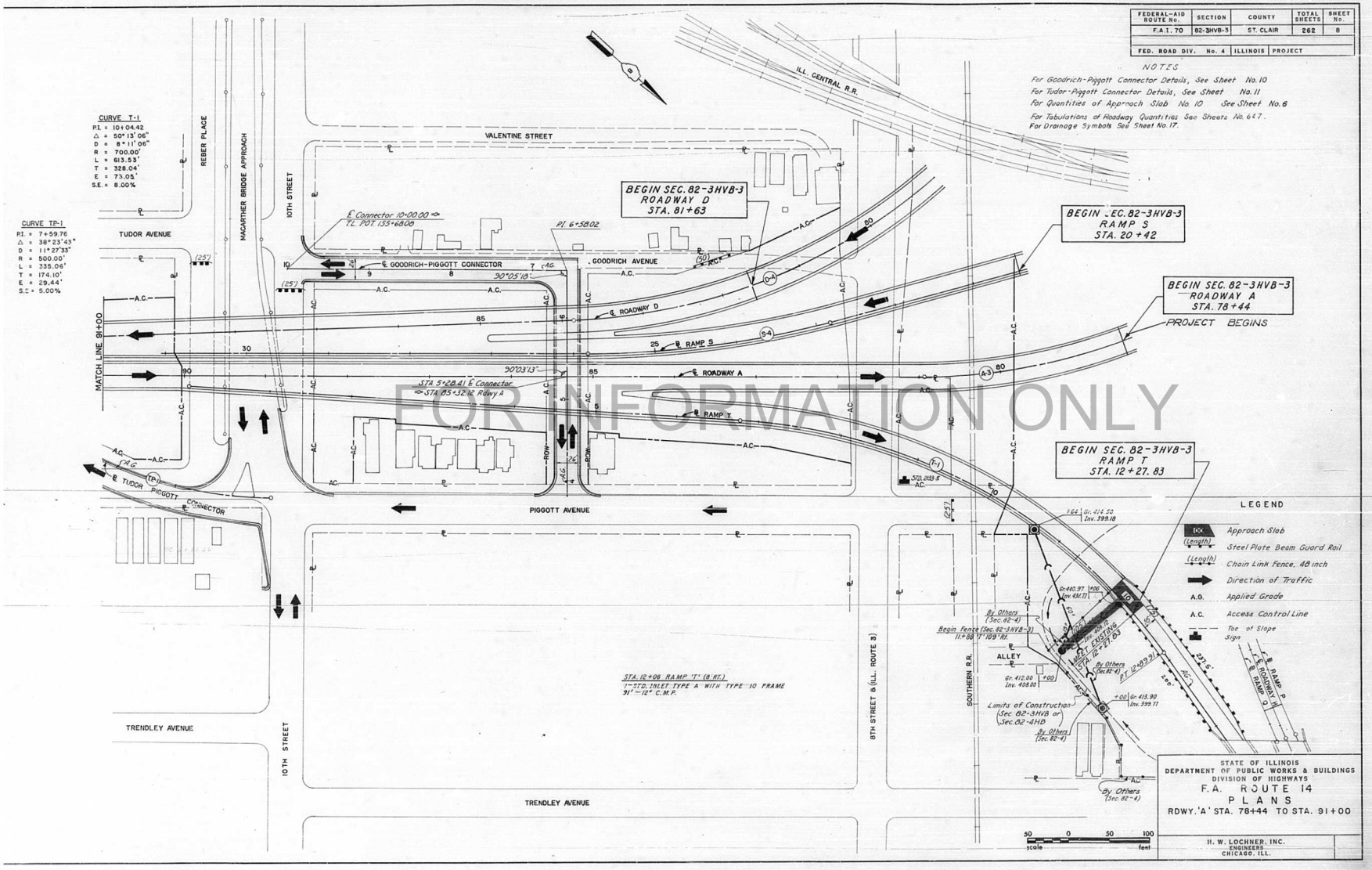
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

SCHEDULE OF QUANTITIES

CURB, GUTTER, SIDEWALK & MISC.
SUBASE, SHOULDERS, PAVEMENT & MISC.

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

CEM - 7-25-67 Revised


NOTES
For Goodrich-Piggott Connector Details, See Sheet No.10
For Tudor-Piggott Connector Details, See Sheet No.11
For Quantities of Approach Slab No.10 See Sheet No.6
For Tabulations of Roadway Quantities See Sheets No.6&7.
For Drainage Symbols See Sheet No.17.
FEDERAL-AID ROUTE No. | SECTION | COUNTY | TOTAL SHEETS | SHEET No.
F.A.I. 70 | 82-3HVB-3 | ST. CLAIR | 262 | 8
FED. ROAD DIV. No. 4 | ILLINOIS | PROJECT
CURVE T-1
P.I. = 10+04.42
Δ = 50°13'06"
D = 8°11'06"
R = 700.00'
L = 613.53'
T = 328.04'
E = 73.05'
S.E. = 8.00%
CURVE TP-1
P.I. = 7+59.76
Δ = 38°23'43"
D = 11°27'33"
R = 500.00'
L = 335.06'
T = 174.10'
E = 29.44'
S.E. = 5.00%
MATCH LINE 91+00
TUDOR AVENUE
REBER PLACE
MACARTHER BRIDGE APPROACH
10TH STREET
VALENTINE STREET
ILL. CENTRAL R.R.
BEGIN SEC. 82-3HVB-3 ROADWAY D STA. 81+63
BEGIN SEC. 82-3HVB-3 RAMP S STA. 20+42
BEGIN SEC. 82-3HVB-3 ROADWAY A STA. 78+44
PROJECT BEGINS
BEGIN SEC. 82-3HVB-3 RAMP T STA. 12+27.83
℄ Connector 10+00.00 ⇨ TL POT. 135+68.08
PI 6+58.02
℄ GOODRICH-PIGGOTT CONNECTOR
GOODRICH AVENUE
℄ ROADWAY D
℄ RAMP S
℄ ROADWAY A
℄ RAMP T
STA 5+28.41 ℄ Connector ⇨ STA 85+32.12 Rdwy A
TUDOR PIGGOTT CONNECTOR
PIGGOTT AVENUE
TRENDLEY AVENUE
10TH STREET
8TH STREET (ILL. ROUTE 3)
SOUTHERN R.R.
ALLEY
STA. 12+06 RAMP "T" (8' RT.)
1-STD. INLET TYPE A WITH TYPE 10 FRAME
91"-12" C.M.P.
Begin Fence (Sec. 82-3HVB-3) 11+88.7' 109' Rt.
Limits of Construction (Sec. 82-3HVB or Sec. 82-4HB)
By Others (Sec. 82-4)
Gr. 440.97 Inv. 434.71
Gr. 414.50 Inv. 399.18
Gr. 412.00 Inv. 408.80
Gr. 413.90 Inv. 399.71
237.5'
LEGEND
Approach Slab
Steel Plate Beam Guard Rail
Chain Link Fence, 48 inch
Direction of Traffic
A.G. Applied Grade
A.C. Access Control Line
Toe of Slope
Sign
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS
F.A. ROUTE 14
PLANS
RDWY. 'A' STA. 78+44 TO STA. 91+00
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILL.
scale 50 0 50 100 feet
FOR INFORMATION ONLY

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB-3	ST. CLAIR	262	9
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		

CURVE A-4
P.I. = 97+74.81
Δ = 2°08'54"
D = 0°32'13"
R = 10,670.00'
L = 400.08'
T = 200.06'
E = 1.88'
S = NORMAL CROWN

CURVE A-5
P.I. = 101+74.89
Δ = 2°08'54"
D = 0°32'13"
R = 10,670.00'
L = 400.08'
T = 200.06'
E = 1.88'
S = NORMAL CROWN

CURVE A-6
P.I. = 97+06.40
Δ = 15°00'00"
D = 5°43'46"
R = 1000.00'
L = 261.80'
T = 131.65'
E = 8.63'

CURVE A-7
P.I. = 102+01.72
Δ = 14°59'51"
D = 5°43'46"
R = 1,000.00'
L = 261.76'
T = 131.63'
E = 8.63'

CURVE D-5
P.I. = 92+35.85
Δ = 1°59'12"
D = 0°29'48"
R = 11,535.00'
L = 399.96'
T = 200.00'
E = 1.73'

CURVE D-6
P.I. = 96+35.87
Δ = 2°08'54"
D = 0°32'13"
R = 10,670.00'
L = 400.08'
T = 200.06'
E = 1.88'
S = NORMAL CROWN

CURVE D-7
P.I. = 100+35.95
Δ = 2°08'54"
D = 0°32'13"
R = 10,670.00'
L = 400.08'
T = 200.06'
E = 1.88'
S = NORMAL CROWN

CURVE D-8
P.I. = 95+67.46
Δ = 15°00'00"
D = 5°43'46"
R = 1,000.00'
L = 261.80'
T = 131.65'
E = 8.63'

CURVE D-9
P.I. = 100+62.83
Δ = 14°59'31"
D = 5°43'46"
R = 1,000.00'
L = 261.66'
T = 131.58'
E = 8.62'

CURVE TP-1
P.I. = 7+59.76
Δ = 38°23'44"
D = 11°27'33"
R = 500.00'
L = 335.06'
T = 174.10'
E = 29.44'

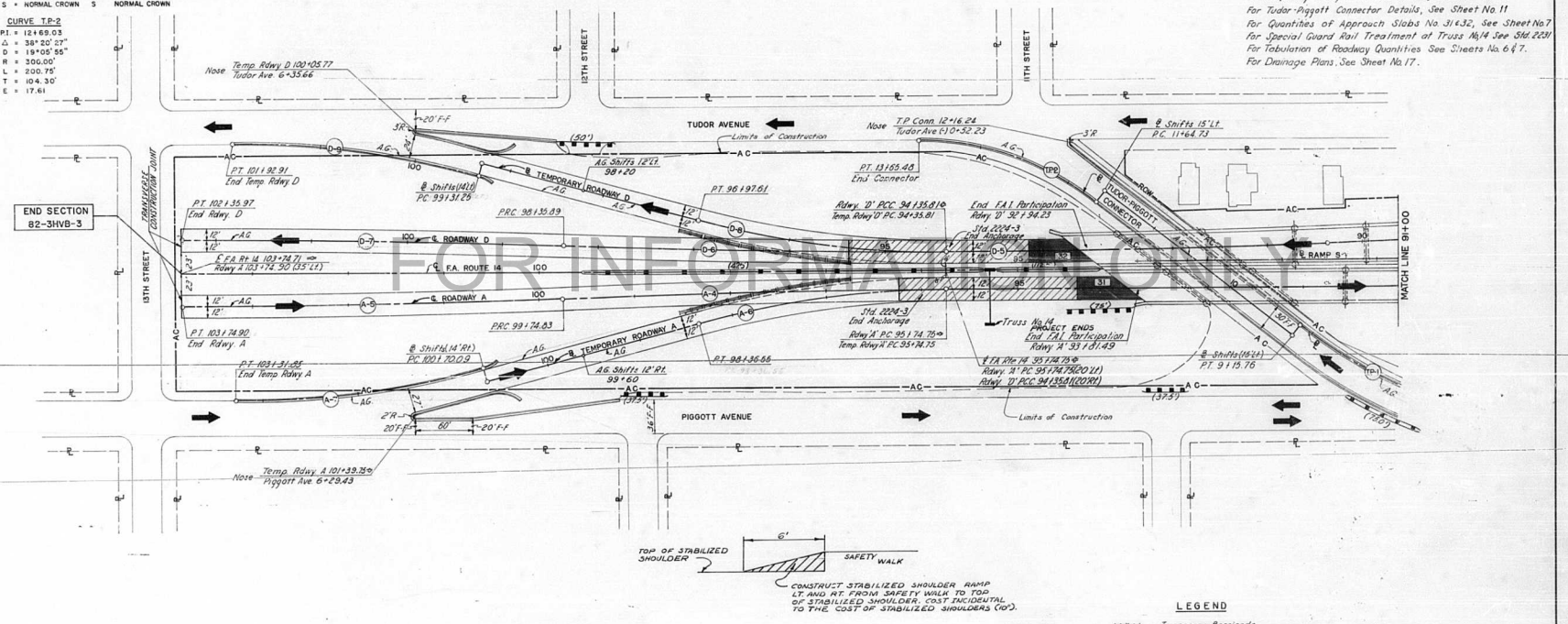
CURVE TP-2
P.I. = 12+69.03
Δ = 38°20'27"
D = 19°05'55"
R = 300.00'
L = 200.75'
T = 104.30'
E = 17.61

TABULATION OF EARTHWORK QUANTITIES
Roadway A Sta. 91+00 to 103+81

Special Excavation	3,702 Cu.Yds.
Embankment	28,176 Cu.Yds.

NOTES

For Temporary Rdwy A & D Nose Details, See Sheet No. 19
For Tudor-Piggott Connector Details, See Sheet No. 11
For Quantities of Approach Slabs No. 31&32, See Sheet No. 7
For Special Guard Rail Treatment at Truss No. 14 See Std. 2231
For Tabulation of Roadway Quantities See Sheets No. 6 & 7.
For Drainage Plans, See Sheet No. 17.



CONSTRUCT STABILIZED SHOULDER RAMP LT. AND RT. FROM SAFETY WALK TO TOP OF STABILIZED SHOULDER. COST INCIDENTAL TO THE COST OF STABILIZED SHOULDERS (10').

LEGEND

- Temporary Barricade
- (LENGTH) Steel Plate Beam Guard Rail, Double Beam
- Approach Slab
- (LENGTH) Steel Plate Beam Guard Rail, Single Beam
- (LENGTH) Chain Link Fence, 48 inch
- Direction of Traffic
- A.G. Applied Grade
- A.C. Access Control Line
- Toe of Slope

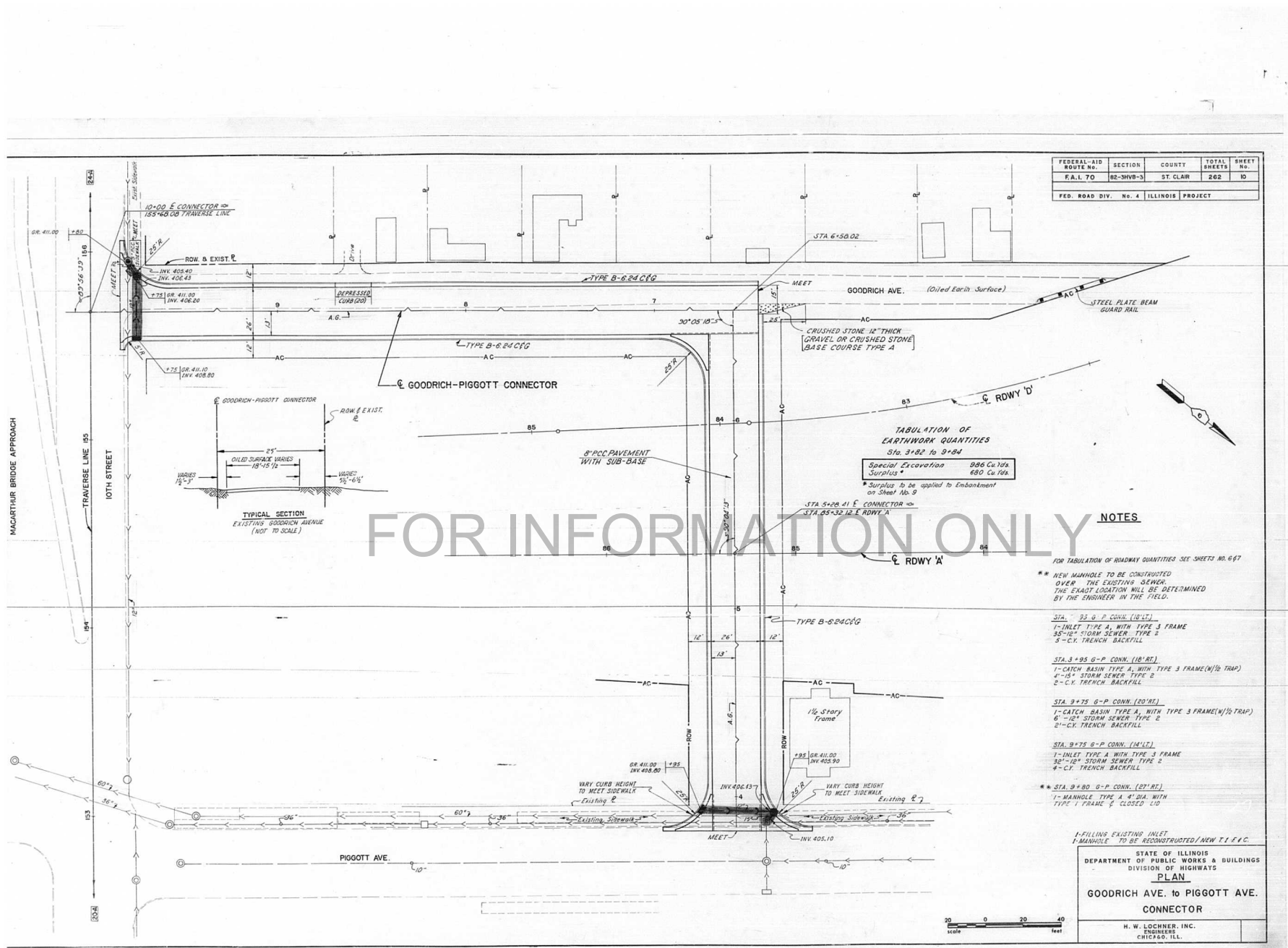
50 0 50 100 scale feet

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS
F.A. ROUTE 14
PLANS
RDWY. 'A' STA. 91+00 TO STA. 103+74.90

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

com 8-3-67 Added Detail For Temp. from Safety walk to Shoulder.

com 7-25-67 Rev. Guardrail & Relocated Truss No. 14



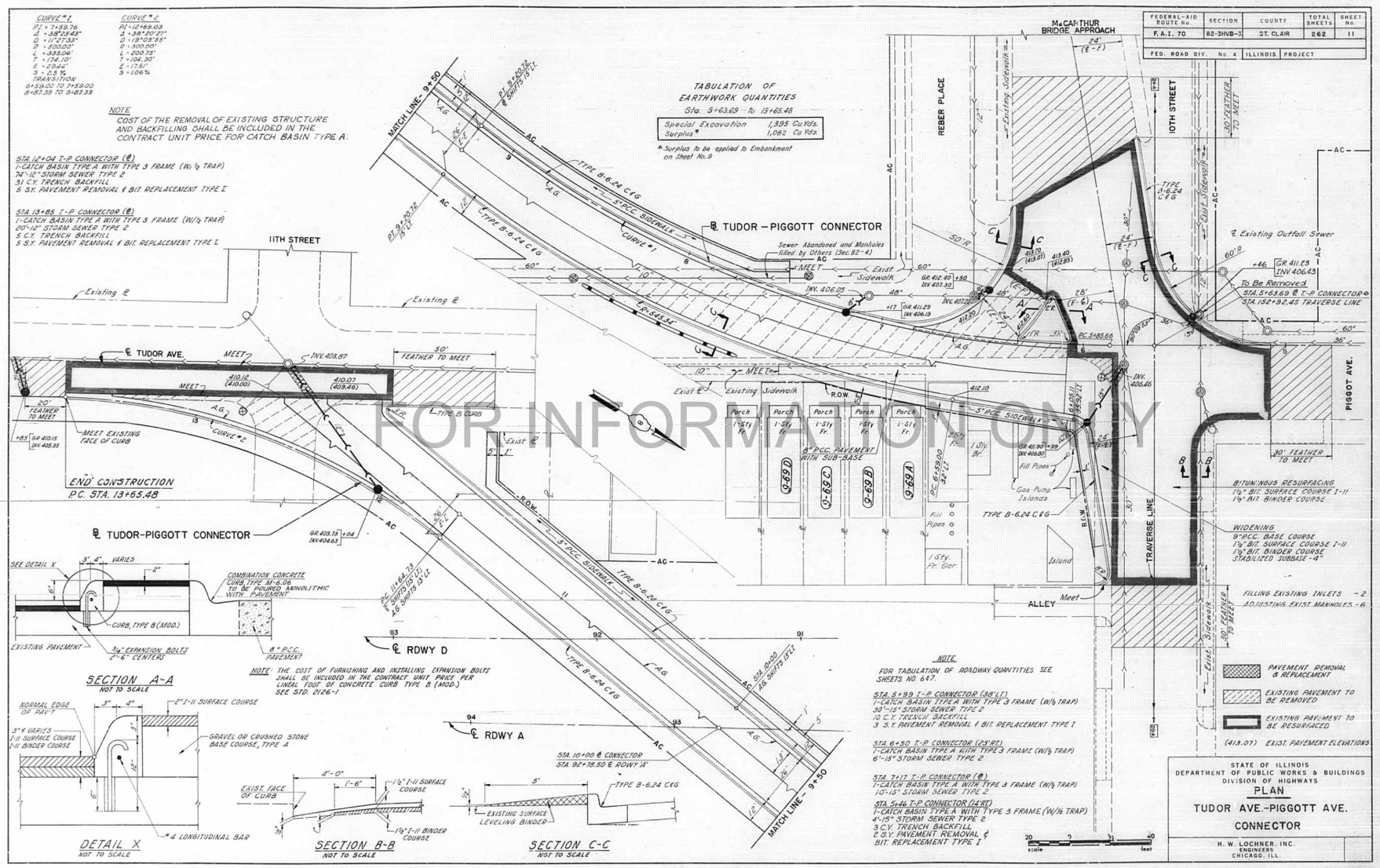
FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB-3	ST. CLAIR	262	10
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		

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

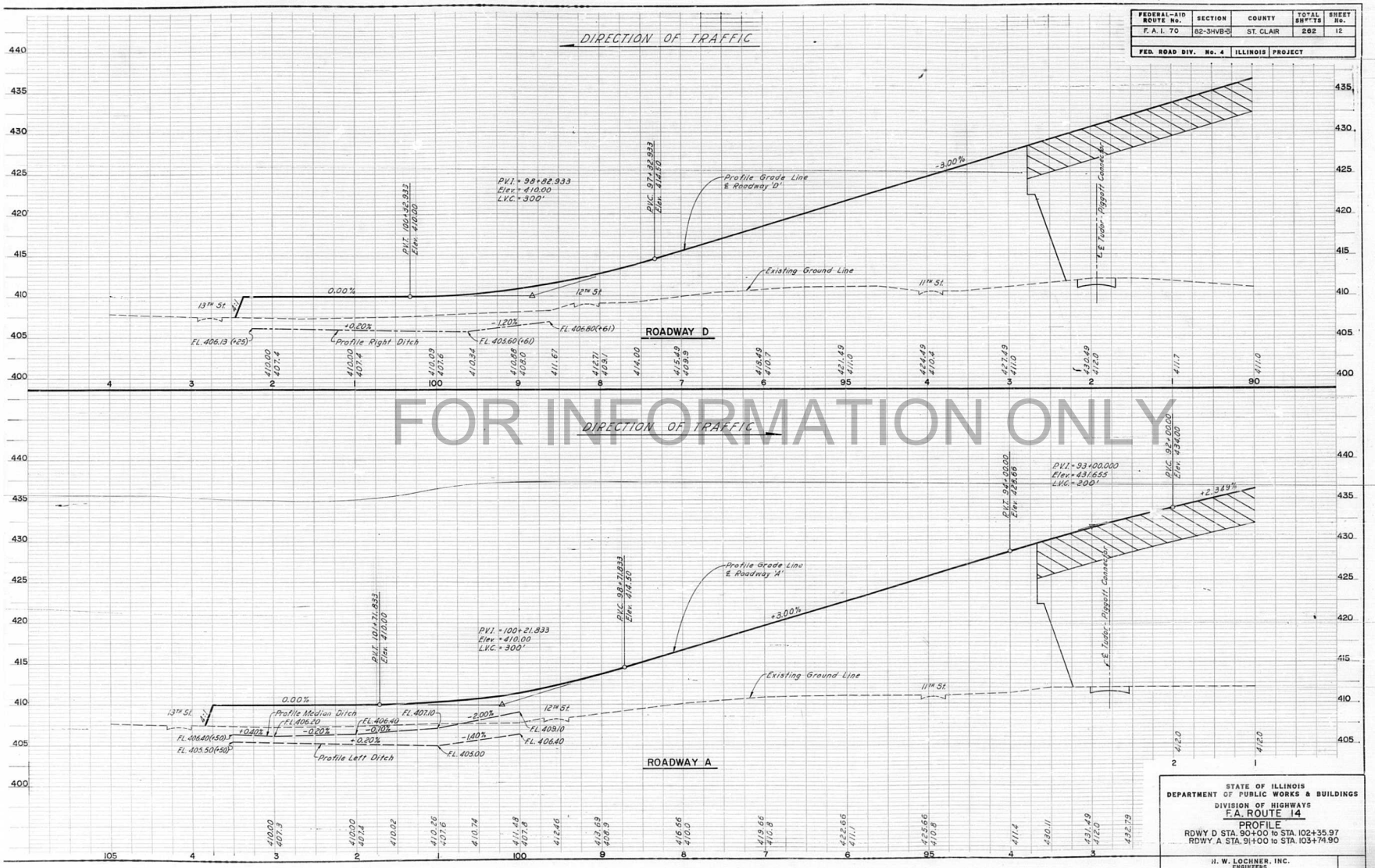
PLAN

GOODRICH AVE. to PIGGOTT AVE. CONNECTOR

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



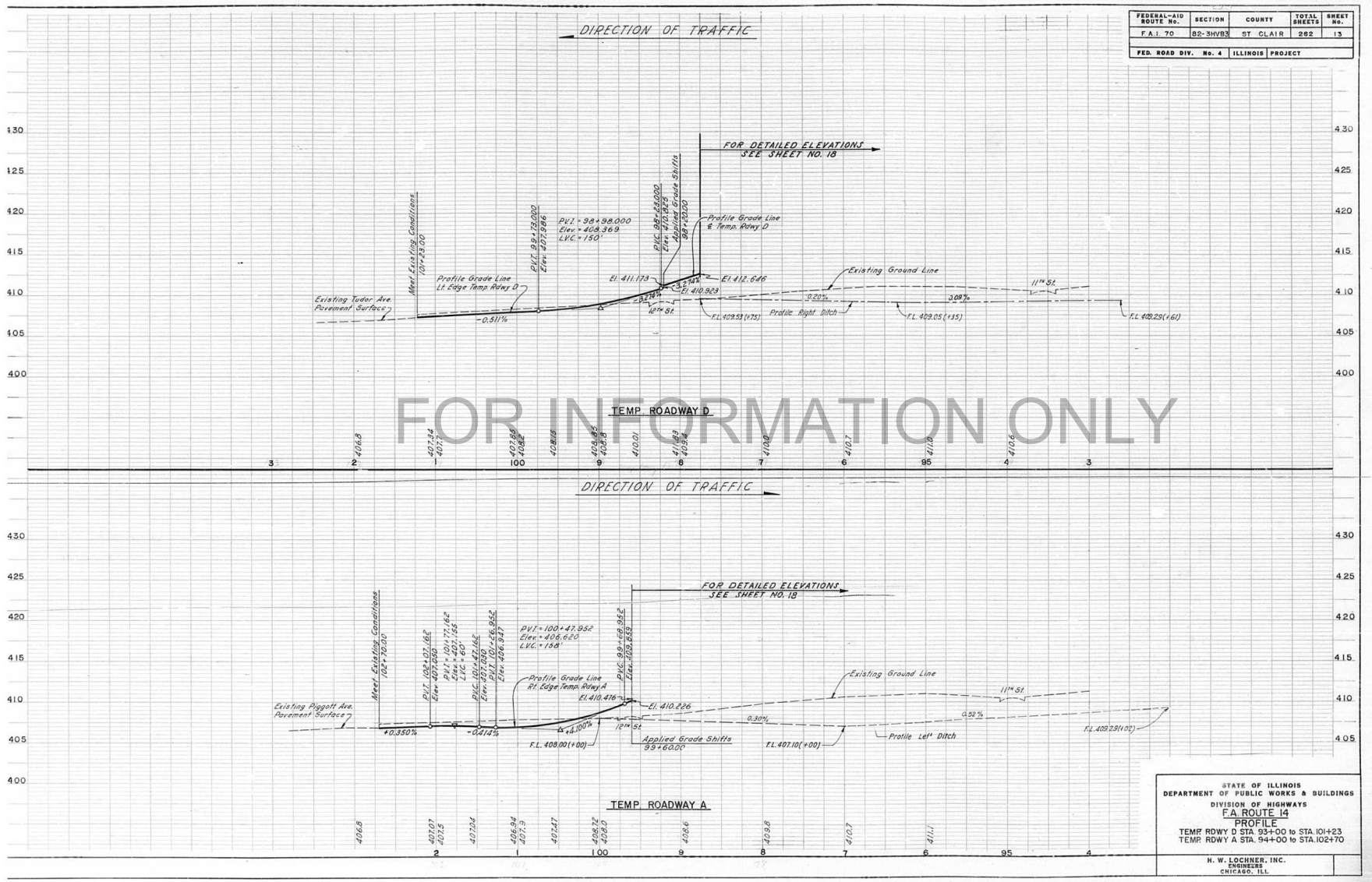
FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F. A. I. 70	82-3HVB-8	ST. CLAIR	262	12
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		



STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS
F.A. ROUTE 14
PROFILE
RDWY D STA. 90+00 to STA. 102+35.97
RDWY A STA. 91+00 to STA. 103+74.90

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

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB3	ST CLAIR	282	13
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		

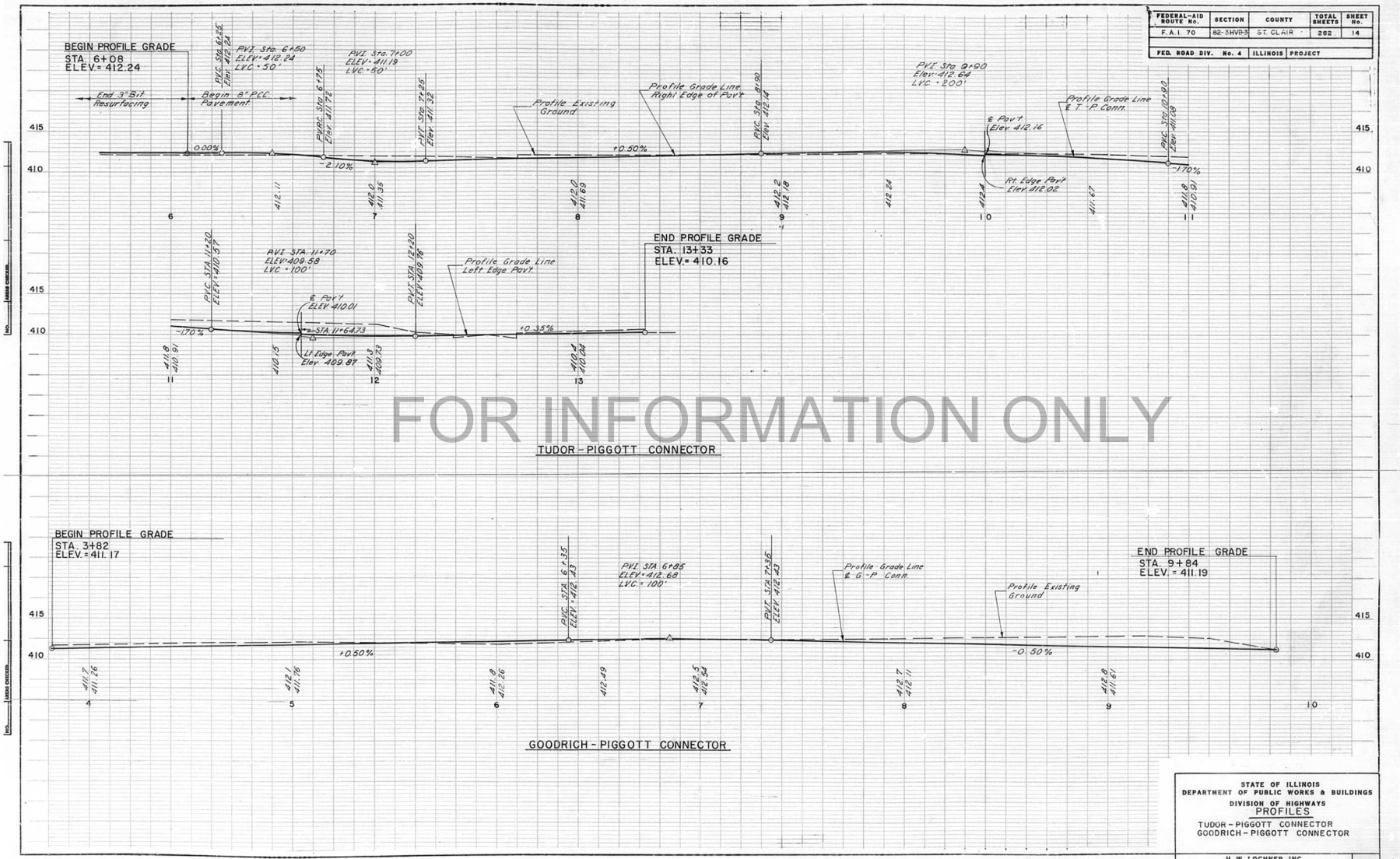


FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS
F.A. ROUTE 14
PROFILE
TEMP. RDWY D STA. 93+00 to STA. 101+23
TEMP. RDWY A STA. 94+00 to STA. 102+70

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

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB-3	ST. CLAIR	282	14
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		



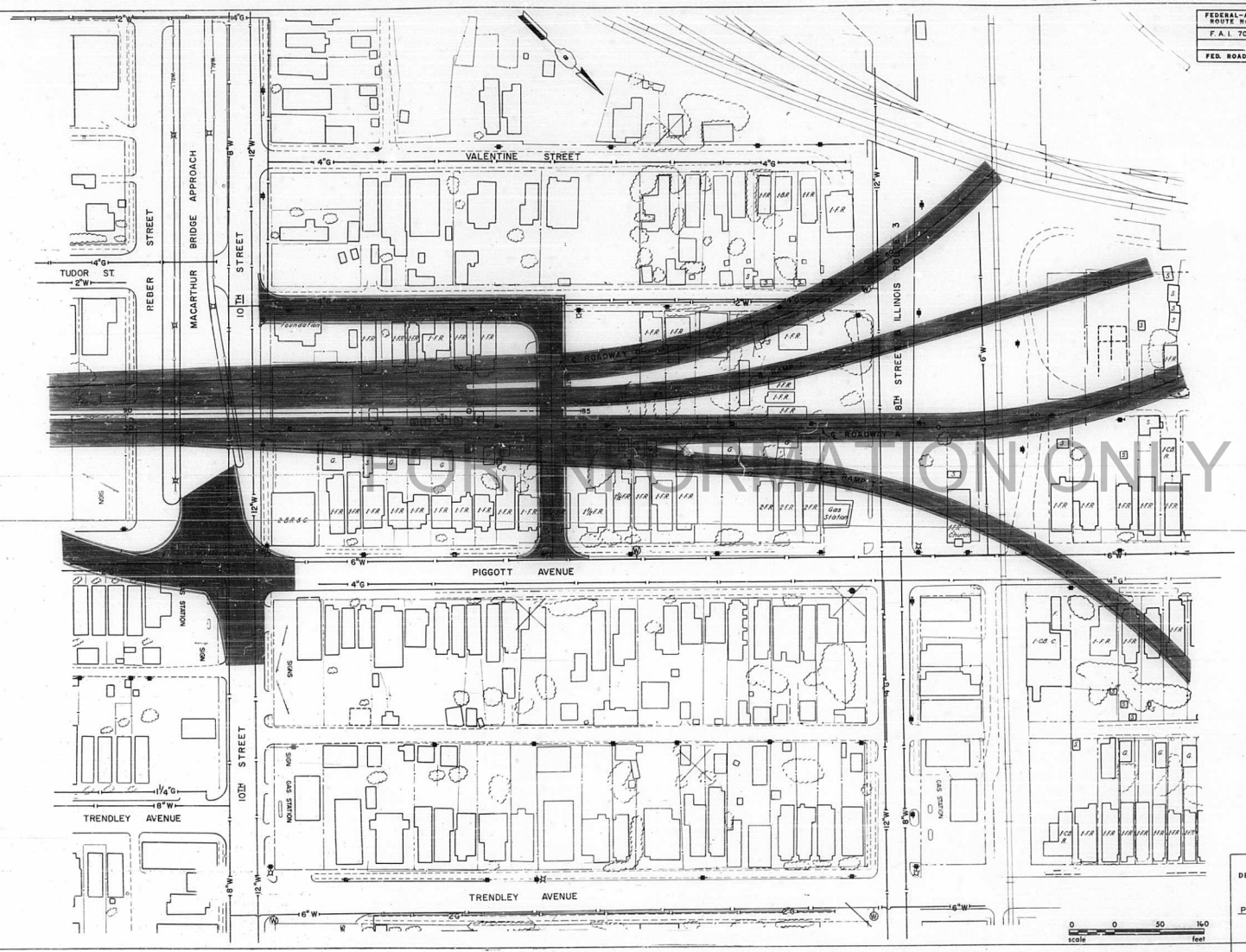
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

PROFILES

TUDOR - PIGGOTT CONNECTOR
GOODRICH - PIGGOTT CONNECTOR

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

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB-3	ST. CLAIR	262	15
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		



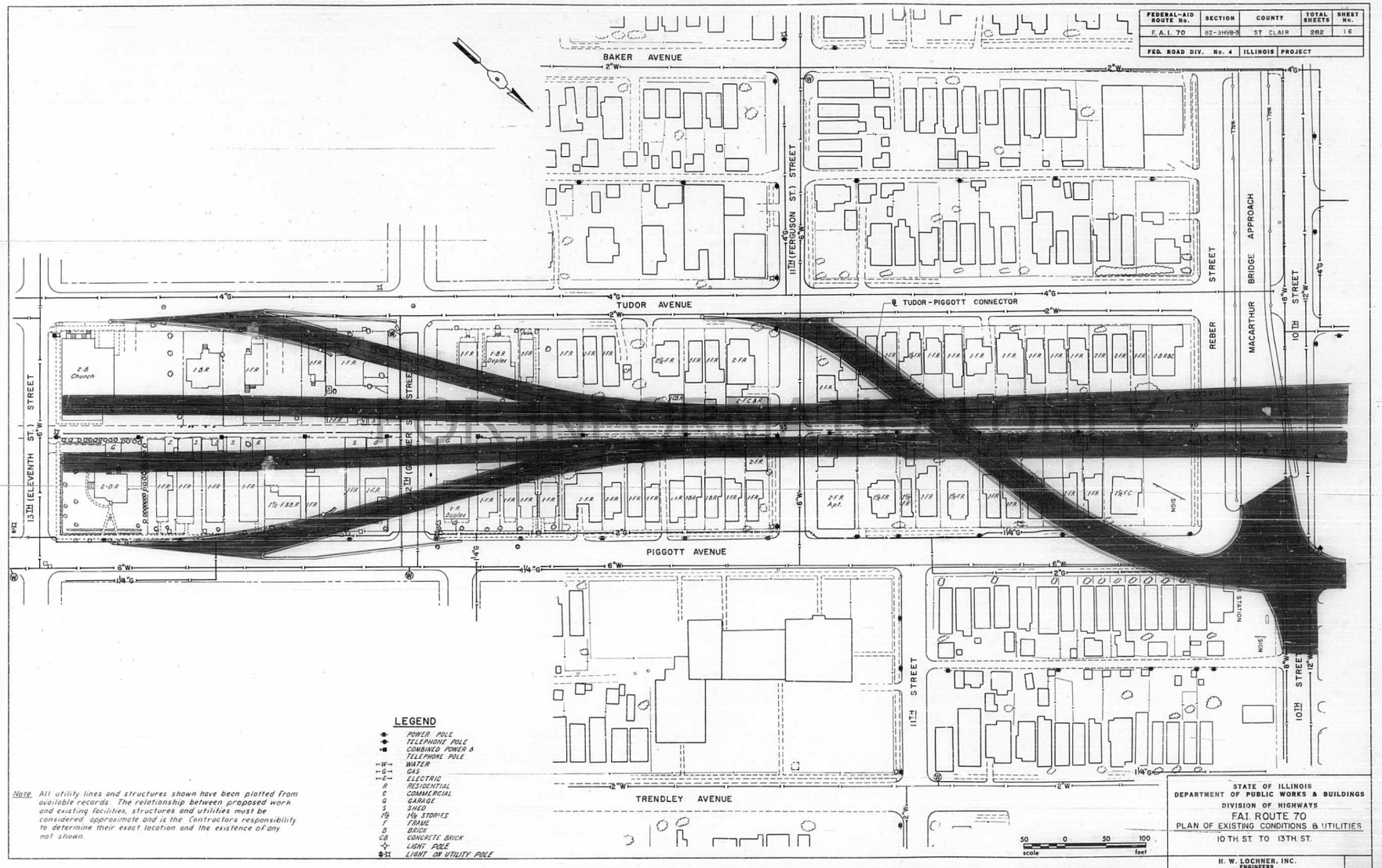
LEGEND

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

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

F.A.I. ROUTE 70
PLAN OF EXISTING CONDITIONS & UTILITIES
8TH. ST. TO 10TH. ST.

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



FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB-3	ST. CLAIR	262	16
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		

LEGEND

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

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.

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

FAI ROUTE 70
PLAN OF EXISTING CONDITIONS & UTILITIES
10TH ST. TO 13TH ST.

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

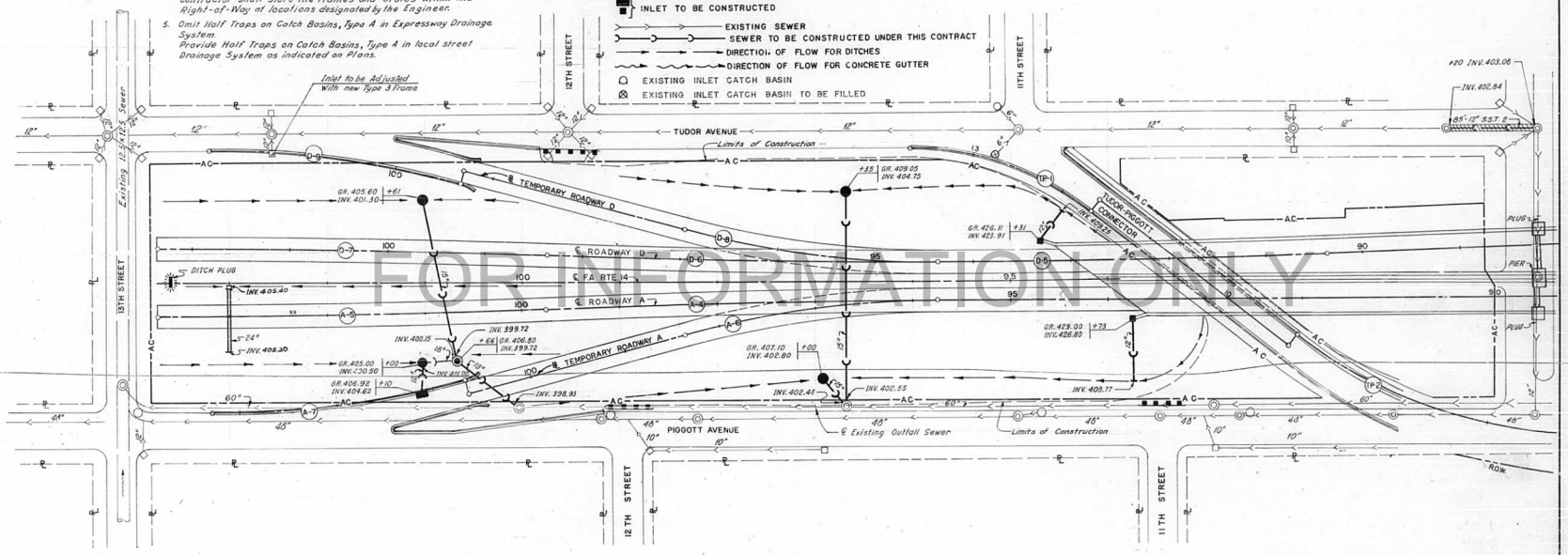
GENERAL DRAINAGE NOTES

1. 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 directed by the Engineer. Cost of such work shall be considered incidental to the contract.
2. Added expense which will be involved in connecting Proposed Sewers to Existing Structures shall be considered incidental to the cost of the Proposed Sewer.
3. 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.
4. 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. The Contractor shall store the frames and Grates within the Right-of-Way at locations designated by the Engineer.
5. 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 UNDER THIS CONTRACT
- DIRECTION OF FLOW FOR DITCHES
- DIRECTION OF FLOW FOR CONCRETE GUTTER
- EXISTING INLET CATCH BASIN
- EXISTING INLET CATCH BASIN TO BE FILLED

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB-3	ST. CLAIR	282	17
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		



STA. 95+35 TEMP. RDWY. D (67' RT.)
1 - CATCH BASIN TYPE A, WITH TYPE B GRATE
220' - 15" STORM SEWER TYPE 2 (RCCP CLASS III)
90 C.Y. TRENCH BACKFILL

STA. 97+00 TEMP. RDWY. A (73' LT.)
1 - CATCH BASIN TYPE A, WITH TYPE B GRATE
34' - 15" STORM SEWER TYPE 2 (RCCP CLASS II)

STA. 100+66 RDWY. A (50' LT.)
1 - MANHOLE TYPE A 4' DIA. WITH TYPE 1 FRAME & CLOSED LID
75' - 18" STORM SEWER TYPE 2 (RCCP CLASS II)
22 C.Y. TRENCH BACKFILL

STA. 99+61 RDWY. D (47' RT.)
1 - CATCH BASIN TYPE A, WITH TYPE B GRATE
145' - 15" STORM SEWER TYPE 2 (RCCP CLASS II)
41 C.Y. TRENCH BACKFILL

STA. 101+00 RDWY. A (53' LT.)
1 - CATCH BASIN TYPE A, WITH TYPE B GRATE
33' - 18" STORM SEWER TYPE 2 (RCCP CLASS II)

STA. 101+10 TEMP. RDWY. A (℄)
1 - INLET TYPE A, WITH TYPE 3 FRAME
21' - 12" STORM SEWER TYPE 1 (RCCP CLASS III)

STA. 103+00 RDWY. A ℄
80' - 24" PIPE CULVERTS, TYPE 1 A RCCP
1 - HDWL. STD. 1976 D.44 - 2.
1.8 C.Y. CLASS X CONCRETE (HDWL.)
36 - LB. REINFORCEMENT BARS
1 - INLET (STD. 128BR-1)

STA. 88+20 RDWY. D (118' RT.)
85' - 12" STORM SEWER TYPE 2 (RCCP CLASS II)
45 C.Y. TRENCH BACKFILL
19 S.Y. PAVEMENT REMOVAL & BIT. REPLACEMENT TYPE III

STA. 93+31 RDWY. D (20' RT.)
1 - INLET TYPE A
WITH TYPE 10 FRAME
40' - 12" C.M.P.
1 - HDWL. STD. 1973 D12-2
0.5 C.Y. CLASS X CONCRETE (HDWL.)

STA. 93+73 RDWY. A (20' LT.)
1 - INLET TYPE A
WITH TYPE 10 FRAME
65' - 12" C.M.P.
1 - HDWL. STD. 1973 D12-2
0.5 C.Y. CLASS X CONCRETE (HDWL.)

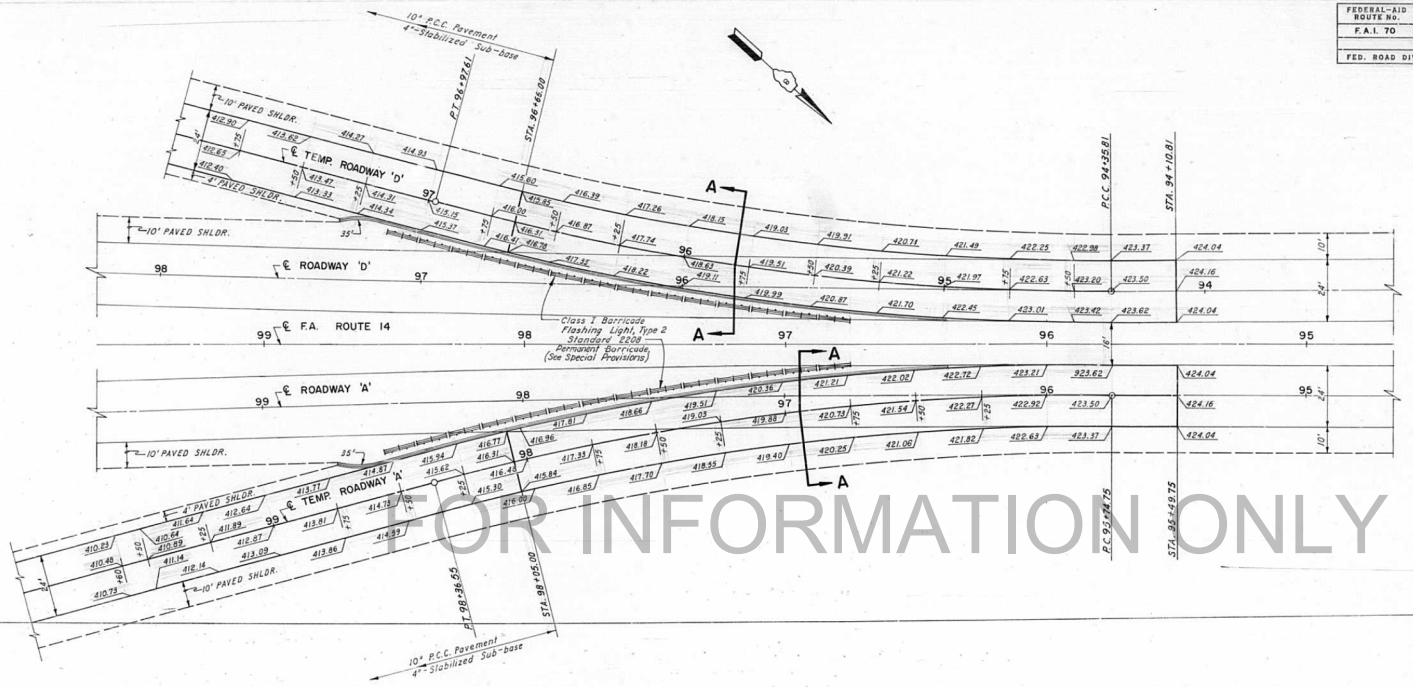
LEGEND
PAVEMENT REMOVAL & REPLACEMENT

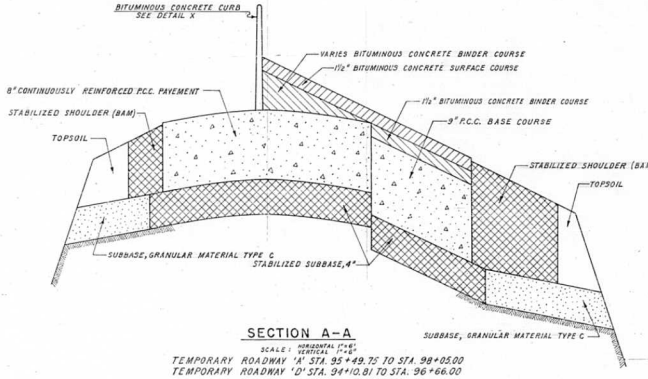
50 0 50 100
scale feet

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS
F.A.I. ROUTE 14
DRAINAGE PLANS
RDWY. 'A' STA. 89 + 50 TO STA. 103+75
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILL.

CEM - 7-25-67 - Revised Quant. Relocated Catch Basins

FEDERAL-AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVB-3	ST. CLAIR	262	18
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		

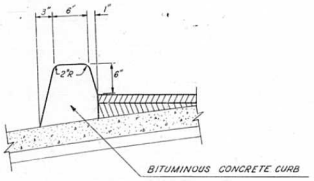




SECTION A-A

SCALE: HORIZONTAL 1"=6" VERTICAL 1"=6"

TEMPORARY ROADWAY 'A' STA. 95+49.75 TO STA. 98+05.00
TEMPORARY ROADWAY 'D' STA. 94+10.81 TO STA. 96+66.00



DETAIL X
NOT TO SCALE

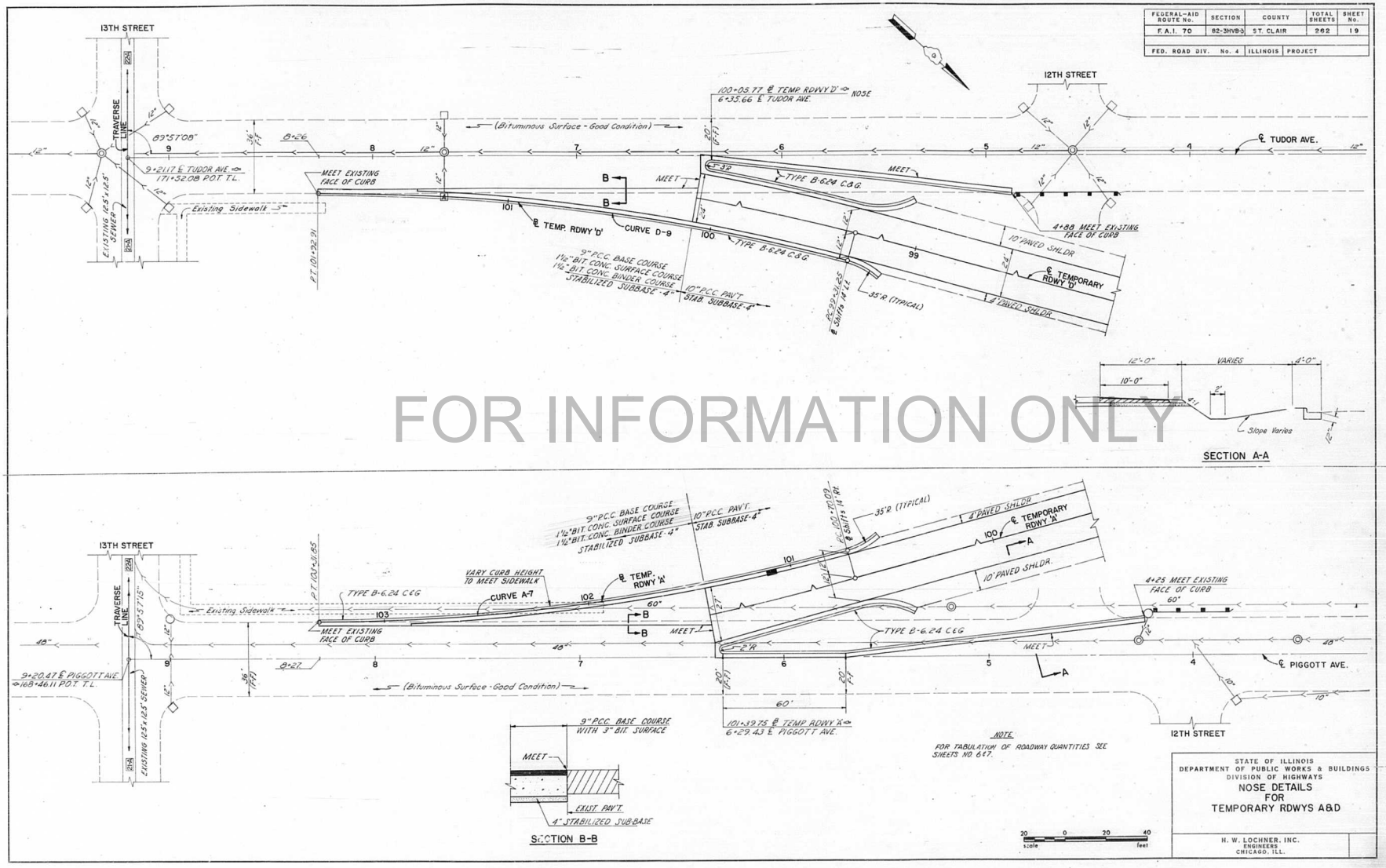
20 0 20 40
scale feet

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

DETAILED ELEVATIONS
FOR
TEMP. RDWY. 'A' STA. 95+50 TO STA. 99+60
TEMP. RDWY. 'D' STA. 94+11 TO STA. 97+75

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

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB-3	ST. CLAIR	262	19
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		



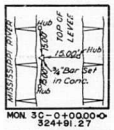
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

NOSE DETAILS FOR TEMPORARY RDWYS A&D

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

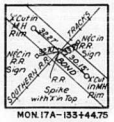
Com. F.)-67 Removed Note. - No Pvmt Removal Quantity

REFERENCE TIES TO TRAVERSE LINE



MON. 3C-0+00.00 ◇ 324+91.27

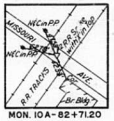
MON. 9A-74+48.66



MON.17A-133+44.75

MON.25A-199+95.30

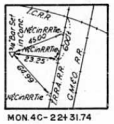
MON. 4A-5+99.85



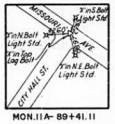
MON. 10A-82+71.20

MON.18A-140+65.73

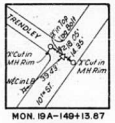
MON.26A-208+30.32



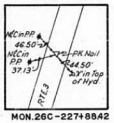
MON.4C-22+31.74



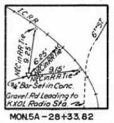
MON.11A-89+41.11



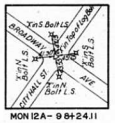
MON.19A-149+13.87



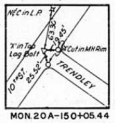
MON.26C-227+88.42



MON.5A-28+33.62

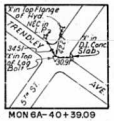


MON 12A-98+24.11

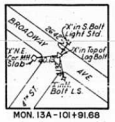


MON.20A-150+05.44

MON.1A-259+44.75



MON 6A-40+39.09

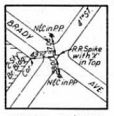


MON. 13A-101+91.68

MON.21A-165+46.42

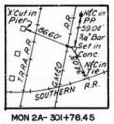
MON. 1C-28+52.71

MON 7A-46+65.51

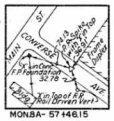


MON. 14A-111+76.44

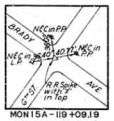
MON. 22A-174+48.71



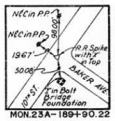
MON 2A-301+76.45



MON.8A-57+46.15

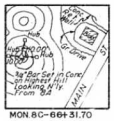


MON 15A-119+09.19

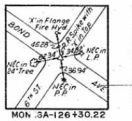


MON.23A-189+90.22

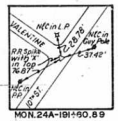
MON 3A-318+79.22



MON.8C-66+31.70



MON. 3A-126+30.22



MON.24A-191+60.89

LIST OF BENCH MARKS

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 W. ST 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.

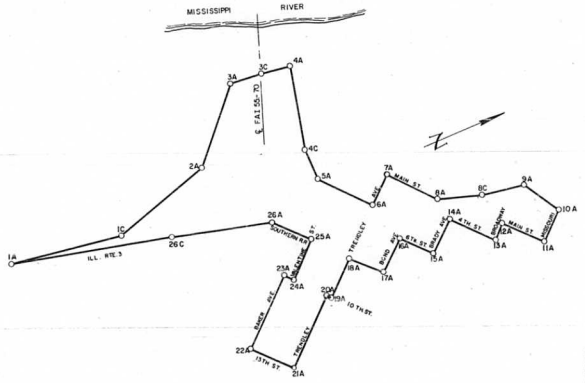
B.M. #23 ELEV. 420.307
X-CUT IN TOP R.R. RAIL DRIVEN VERTICALLY & MARKED MH6 (41.50' E. OF CONC. MON. 25A)

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

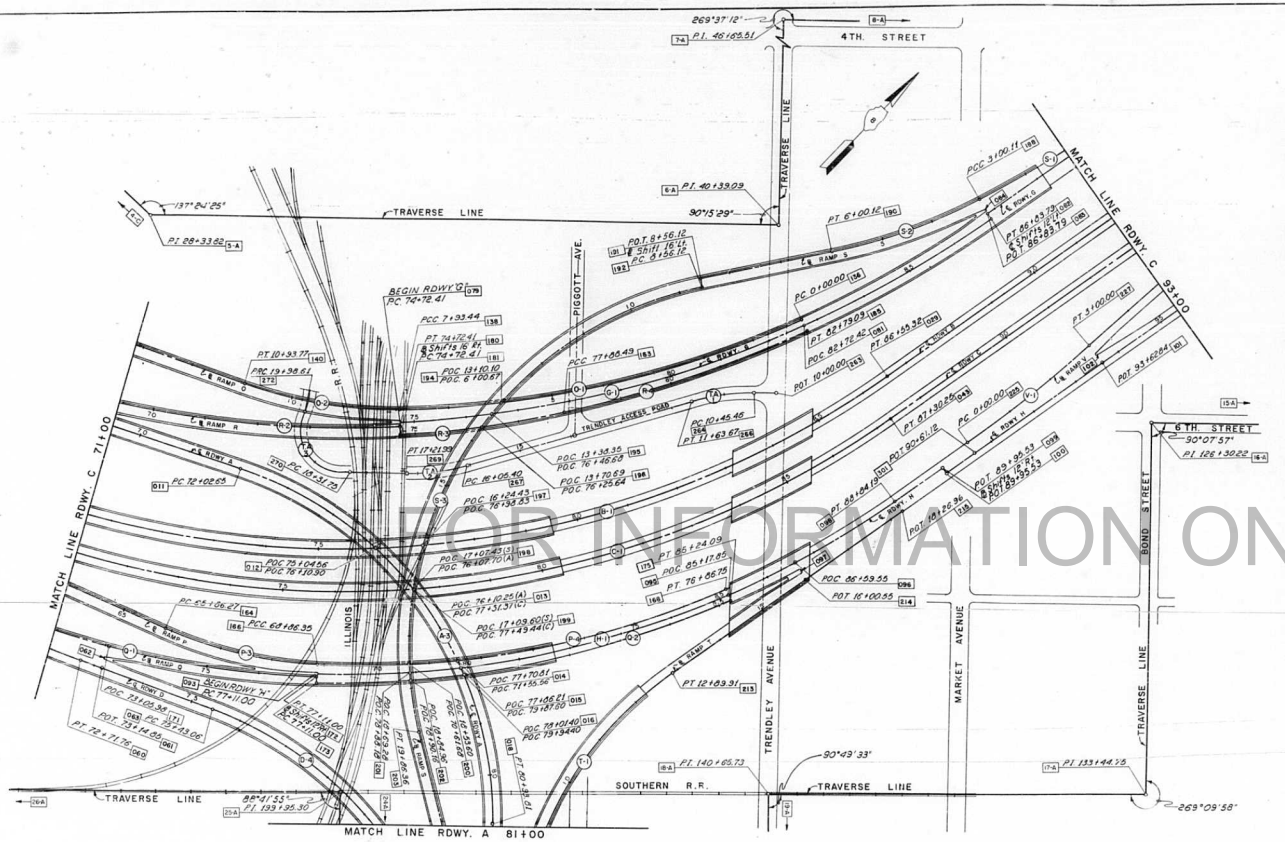
1000 0 1000 2000
scale feet

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB-3	ST. CLAIR	262	20
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		

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.



FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB-3	ST. CLAIR	262	21
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		

CURVE A-3
P.I. = 77+20.08
Δ = 72°56'32"
D = 8°11'06"
R = 700.00'
L = 891.16'
T = 517.45'
E = 170.48'
S = 8.00%

CURVE B-1
P.I. = 76+37.10
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
P.I. = 77+12.03
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
P.I. = 80+23.30
Δ = 68°54'17"
D = 8°11'06"
R = 700.00'
L = 841.83'
T = 480.24'
E = 148.0'
S = 8.00%

CURVE G-1
P.I. = 80+94.76
Δ = 32°22'22"
D = 2°40'26"
R = 2,142.90'
L = 1,211.39'
T = 622.36'
E = 88.35'
S = 8.00%

CURVE H-1
P.I. = 83+18.82
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
P.I. = 4+02.17
Δ = 23°05'03"
D = 2°54'34"
R = 1,969.33'
L = 793.44'
T = 402.17'
E = 40.65'

CURVE O-2
P.I. = 9+45.26
Δ = 20°42'27"
D = 6°53'47"
R = 831.00'
L = 300.33'
T = 151.82'
E = 13.76'
S = 8.00%

CURVE P-3
P.I. = 67+38.03
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
P.I. = 72+93.70
Δ = 26°15'16"
D = 3°16'49"
R = 1,746.72'
L = 800.40'
T = 407.35'
E = 46.87'

CURVE Q-1
P.I. = 71+34.70
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
P.I. = 81+23.90
Δ = 24°35'11"
D = 3°01'26"
R = 1,894.81'
L = 813.09'
T = 412.90'
E = 44.47'

CURVE R-2
P.I. = 71+47.17
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
P.I. = 76+30.85
Δ = 10°03'40"
D = 3°10'59"
R = 1,800.00'
L = 316.08'
T = 158.45'
E = 6.96

CURVE R-4
P.I. = 80+34.59
Δ = 11°19'45"
D = 2°18'33"
R = 2,481.19'
L = 490.60'
T = 246.10'
E = 12.18'

CURVE S-1
P.I. = 1+50.27
Δ = 7°34'04"
D = 2°31'18"
R = 2,272.14'
L = 300.11'
T = 150.27'
E = 4.96'

CURVE S-2
P.I. = 4+51.12
Δ = 16°11'09"
D = 3°23'42"
R = 1,062.00'
L = 300.01'
T = 151.01'
E = 10.68'
S = 8.00%

CURVE S-3
P.I. = 15+87.49
Δ = 92°30'40"
D = 8°11'06"
R = 700.00'
L = 1,130.24'
T = 725.37'
E = 312.38'
S = 8.00%

CURVE T-1
P.I. = 10+04.42
Δ = 50°13'06"
D = 8°11'06"
R = 700.00'
L = 613.53'
T = 328.04'
E = 73.05'
S = 8.00%

CURVE V-1
P.I. = 1+50.16
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
P.I. = 11+05.00
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
P.I. = 16+64.11
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
P.I. = 19+46.25
Δ = 100°38'00"
D = 60°18'41"
R = 95.00'
L = 166.86'
T = 114.50'
E = 53.76'
S = NORMAL CROWN

100 0 100 200
scale feet

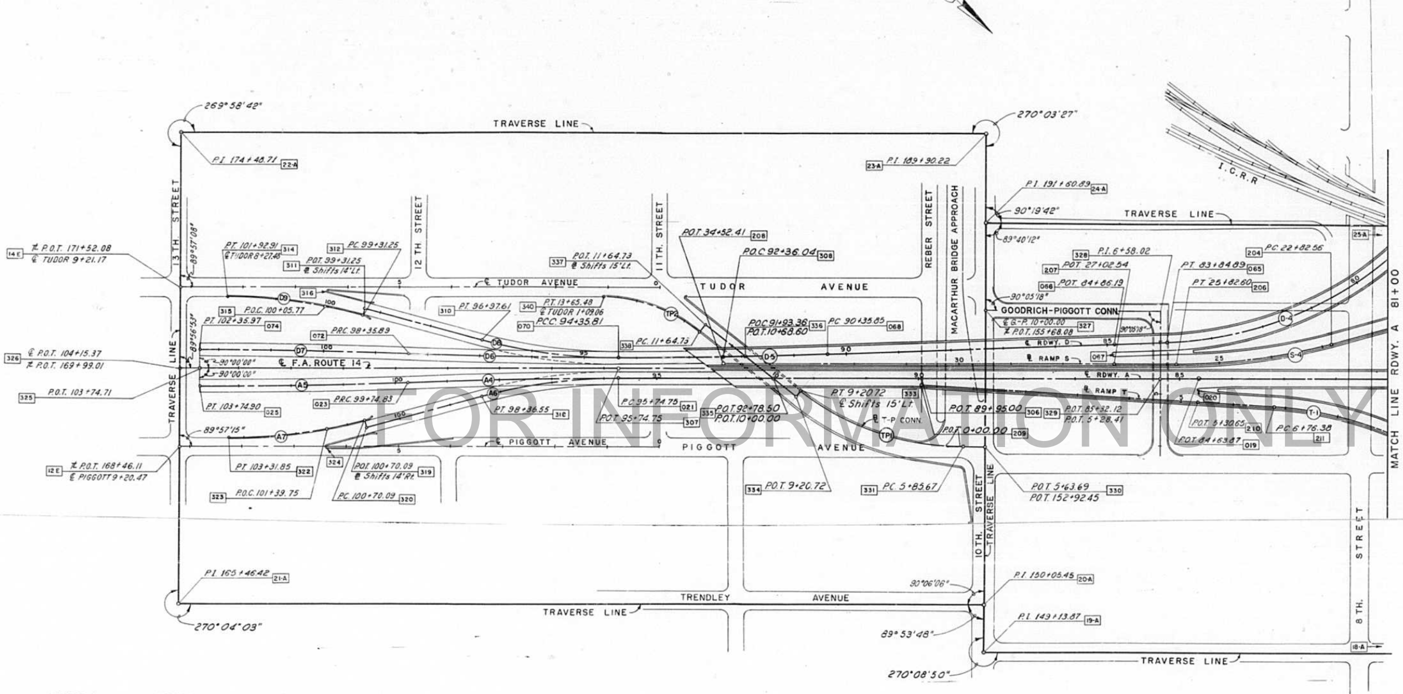
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ALIGNMENT PLAN
ROADWAY C STA. 71+00 TO STA. 93+00

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

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB-3	ST. CLAIR	262	22
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		

CURVE D-4 [064]	CURVE D-5 [069]	CURVE S-4 [205]	CURVE T-1 [212]
P.I. = 80+23.30	P.I. = 92+35.85	P.I. = 24+33.45	P.I. = 10+04.42
Δ = 68°54'17"	Δ = 1°59'12"	Δ = 15°05'12"	Δ = 50°13'06"
D = 8°11'06"	D = 0°29'48"	D = 5°01'41"	D = 8°11'06"
R = 700.00'	R = 11,535.00'	R = 1,139.50'	R = 700.00'
L = 841.83'	L = 399.96'	L = 300.04'	L = 613.53'
T = 480.24'	T = 200.00'	T = 150.89'	T = 328.04'
E = 148.90'	E = 1.73'	E = 9.95'	E = 73.05'
S = 8.00%		S = 8.00%	S = 8.00%



CURVE D-6 [071]	CURVE D-8 [309]	CURVE A-4 [022]	CURVE A-6 [317]	CURVE T.P.-1 [332]
P.I. = 96+35.87	P.I. = 95+67.46	P.I. = 97+74.81	P.I. = 97+06.40	P.I. = 7+59.76
Δ = 2°-08'-54"	Δ = 15°-00'-00"	Δ = 2°-08'-54"	Δ = 15°-00'-00"	Δ = 38°-23'-43"
D = 0°-32'-13"	D = 5°-43'-46"	D = 0°-32'-13"	D = 5°-43'-46"	D = 11°-27'-33"
R = 10,670.00'	R = 1,000.00'	R = 10,670.00'	R = 1,000.00'	R = 500.00'
L = 400.08'	L = 261.80'	L = 400.08'	L = 261.80'	L = 335.06
T = 200.06'	T = 131.65'	T = 200.06'	T = 131.65'	T = 174.10
E = 1.88'	E = 8.63'	E = 1.88'	E = 8.63'	E = 29.44
S = NORMAL CROWN		S = NORMAL CROWN		

CURVE TP-2 [339]	CURVE D-7 [073]	CURVE D-9 [313]	CURVE A-5 [024]	CURVE A-7 [321]
P.I. = 12+69.03	P.I. = 100+35.95	P.I. = 100+62.83	P.I. = 101+74.89	P.I. = 102+01.72
Δ = 38°-20'-27"	Δ = 2°-08'-54"	Δ = 14°-59'-31"	Δ = 2°-08'-54"	Δ = 14°-59'-51"
D = 19°-05'-55"	D = 0°-32'-13"	D = 5°-43'-46"	D = 0°-32'-13"	D = 5°-43'-46"
R = 300.00'	R = 10,670.00'	R = 1,000.00'	R = 10,670.00'	R = 1000.00'
L = 200.75'	L = 400.08'	L = 261.66'	L = 400.08'	L = 261.76'
T = 104.30'	T = 200.06'	T = 131.58'	T = 200.06'	T = 131.63'
E = 17.61'	E = 1.88'	E = 8.62'	E = 1.88'	E = 8.63'
	S = NORMAL CROWN		S = NORMAL CROWN	

100 0 100 200
scale feet

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

ALIGNMENT PLAN
ROADWAY A STA. 81+00 TO STA. 103+74.90

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

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB-3	ST. CLAIR	262	23
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		

POINT CODE NO	COORDINATE NORTH	COORDINATE EAST	DESCRIPTION
TRAVERSE POINT LOCATIONS			
1-A	3,585.015	31,748.167	TRAVERSE POINT
1-C	5,770.707	32,060.956	TRAVERSE POINT
2-A	7,707.391	31,473.777	TRAVERSE POINT
3-A	8,827.340	30,191.148	TRAVERSE POINT
3-C	9,438.510	30,227.520	TRAVERSE POINT
4-A	10,030.665	30,323.293	TRAVERSE POINT
4-C	9,673.297	31,915.572	TRAVERSE POINT
5-A	9,676.088	32,517.645	TRAVERSE POINT
6-A	10,495.902	33,401.150	TRAVERSE POINT
7-A	10,957.004	32,977.137	TRAVERSE POINT
8-A	11,693.731	33,767.717	TRAVERSE POINT
8-C	12,543.360	34,017.374	TRAVERSE POINT
9-A	13,343.702	34,181.317	TRAVERSE POINT
10-A	13,769.335	34,885.169	TRAVERSE POINT
11-A	13,276.149	35,338.540	TRAVERSE POINT
12-A	12,677.995	34,689.002	TRAVERSE POINT
13-A	12,406.926	34,937.255	TRAVERSE POINT
14-A	11,741.037	34,211.759	TRAVERSE POINT
15-A	11,203.440	34,709.666	TRAVERSE POINT
16-A	10,714.228	34,179.991	TRAVERSE POINT
17-A	10,188.208	34,663.578	TRAVERSE POINT
18-A	9,692.583	34,139.968	TRAVERSE POINT
19-A	9,068.283	34,714.069	TRAVERSE POINT
20-A	9,006.467	34,646.499	TRAVERSE POINT
21-A	7,871.390	35,688.703	TRAVERSE POINT
22-A	7,261.928	35,023.359	TRAVERSE POINT
23-A	8,398.236	33,981.698	TRAVERSE POINT
24-A	8,513.438	34,107.622	TRAVERSE POINT
25-A	9,132.298	33,547.932	TRAVERSE POINT
26-A	8,558.278	32,941.500	TRAVERSE POINT
26-C	6,654.239	32,484.566	TRAVERSE POINT
	(CONTINUED ON SHEET)		
ROADWAY "A"			
001	9,554.488	30,010.739	P.C. CURVE A-1
002	9,441.860	30,341.898	P.I. CURVE A-1
003	9,340.648	30,676.723	P.T. CURVE A-1
004	9,209.599	31,110.253	P.O.T. RDWY. "A" NOSE 19' LT.
005	9,227.787	31,115.751	NOSE RDWY."A" & RAMP "M"
006	9,181.391	31,203.570	P.C. CURVE A-2
007	8,955.809	31,949.832	P.I. CURVE A-2
008	9,286.586	32,643.747	P.O.C. RDWY. "A" NOSE 19' LT.
009	9,303.782	32,635.665	NOSE RDWY."A" & RAMP "R"
010	9,291.246	32,653.592	P.T. CURVE A-2
011	9,448.297	32,983.090	P.C. CURVE A-3
012	9,516.340	33,274.838	P.O.C. INT. ℄'s RDWY. "A" & RDWY. "B"
013	9,509.797	33,380.223	P.O.C. INT. ℄'s RDWY."A" & RDWY. "C"
014	9,469.823	33,535.360	P.O.C. INT. ℄'s RDWY. "A" & RAMP "P"
015	9,464.140	33,549.676	P.O.C. INT. ℄'s RDWY. "A" & RDWY. "H"
016	9,458.229	33,563.668	P.O.C. INT. ℄'s RDWY. "A" & RAMP "O"

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	33,800.021	P.T. CURVE A-3
019	9,017.044	34,050.227	P.O.T. RDWY. "A" NOSE 20' LT.
020	9,030.564	34,064.963	NOSE RDWY."A" & RAMP "T"
021	8,198.565	34,801.328	P.C. CURVE A-4 & 6
022	8,051.162	34,936.596	P.I. CURVE A-4
023	7,908.935	35,077.295	P.R. C. CURVE A-4 & 5
024	7,766.707	35,217.993	P.I. CURVE A-5
025	7,619.305	35,353.261	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	30,361.427	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	33,262.474	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 & 8
071	8,024.117	34,907.125	P.I. CURVE D-6
072	7,871.748	35,036.772	P.R. C. CURVE D-6 & 7
073	7,719.379	35,166.419	P.I. CURVE D-7
074	7,571.977	35,301.687	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	8,357.75-	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	33,871.447	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 H-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	31,671.8-	P.T. CURVE M-2 ℄ SHIFTS 16' 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-3	ST. CLAIR	282	24
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		

POINT CODE NO	COORDINATE NORTH	COORDINATE EAST	DESCRIPTION
			RAMP "O"
136	10,395.424	33,560.033	P.C. CURVE O-1 BEGIN RAMP "O"
137	10,022.872	33,408.543	P.I. CURVE O-1
138	9,739.548	33,123.112	P.C.C. CURVE O-1 & 2 NOSE 24' LT.
139	9,632.592	33,015.360	P.I. CURVE O-2
140	9,570.645	32,876.749	P.T. CURVE O-2
141	9,442.932	32,590.979	P.O.T. RAMP "O" ℄ SHIFTS 16' LT.
142	9,428.325	32,597.507	P.C. CURVE O-3
143	9,186.777	32,306.954	P.O.C. INT. ℄'s RAMP "O" & RAMP "R"
144	9,158.717	32,288.570	P.O.C. INT. ℄'s RAMP "O" RDWY. "A"
145	9,251.777	32,202.466	P.I. CURVE O-3
146	8,980.104	32,209.641	P.O.C. INT. ℄'s RAMP "O" & RDWY "B"
147	8,917.304	32,194.932	P.O.C. INT. ℄'s RAMP "O" & RDWY "C"
148	8,819.484	32,183.772	P.T. CURVE O-3
149	8,787.628	32,182.395	P.O.T. INT. ℄'s RAMP "O" & RDWY. "D"
150	8,062.128	32,151.022	P.O.T. RAMP "O" NOSE 18' RT.
151	7,562.677	32,129.424	P.C. CURVE O-4
152	7,412.815	32,122.943	P.I. CURVE O-4
153	7,262.899	32,117.846	P.T. CURVE O-4 END RAMP "O"
			RAMP "P"
154	7,558.702	32,240.890	P.C. CURVE P-1 BEGIN RAMP "P"
155	7,758.061	32,252.608	P.I. CURVE P-1
156	7,957.140	32,268.612	P.T. CURVE P-1
157	8,355.830	32,300.663	P.O.T. RAMP "P" NOSE 24' LT.
158	8,388.180	32,303.263	P.C. CURVE P-2
159	8,836.115	32,339.273	P.I. CURVE P-2
160	8,816.372	32,495.573	P.O.C. INT. ℄'s RAMP "P" & RDWY. "D"
161	8,834.512	32,513.601	P.O.C. INT. ℄'s RAMP "P" & RAMP "Q"
162	8,989.851	32,761.538	P.T. CURVE P-2 ℄ SHIFTS 16' LT. TO 163
163	9,004.885	32,756.064	P.O.T. RAMP "P"
164	9,126.399	33,089.826	P.C. CURVE P-3
165	9,178.316	33,232.426	P.I. CURVE P-3
166	9,278.028	33,346.825	P.C.C. CURVE P-3&4 NOSE 18' RT.
167	9,545.681	33,653.904	P.I. CURVE 4
168	9,921.561	33,810.904	P.T. CURVE 4; END RAMP "P"
			RAMP "Q"
169	8,803.341	32,277.908	P.C. CURVE Q-1; BEGIN RAMP "Q"
170	8,844.037	32,899.272	P.I. CURVE Q-1
171	9,025.489	33,033.488	P.O.C. RAMP "Q" NOSE 24' RT.
172	9,259.994	33,362.660	P.T. CURVE Q-1 NOSE 6' LT., ℄ SHIFTS 12' RT. TO 173
173	9,251.064	33,370.676	P.C. CURVE Q-2
174	9,531.309	33,673.910	P.I. CURVE Q-2
175	9,912.311	33,833.050	P.T. CURVE Q-2 END RAMP "Q"
			RAMP "R"
176	9,108.250	31,721.614	P.C. CURVE R-1 BEGIN RAMP "R"
177	9,092.630	32,202.669	P.I. CURVE R-1
178	9,320.493	32,626.624	P.C.C. CURVE R-1 & 2
179	9,477.110	32,918.022	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,[illegible]0.889	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.O.C. INT. ℄'s RAMP "S" & RDWY "C"
200	9,399.660	33,472.994	P.O.C. INT. ℄'s RAMP "S" & RAMP "P"
201	9,389.047	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	11,655.332	33,898.189	P.O.T. ℄ SHIFTS 16' LT. TO 1220
1220	11,650.802	33,913.534	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	33,991.898	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	34,785.931	P.O.T. BEGIN COLLINSVILLE EXT.
245	12,428.411	34,469.657	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	34,230.483	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	34,645.288	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	13,531.733	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.

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB-3	ST. CLAIR	262	25
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		

POINT CODE NO	COORDINATE NORTH	COORDINATE EAST	DESCRIPTION
			MISCELLANEOUS POINTS
301	10,438.148	33,974.214	P.O.T. RDWY "H" BEGIN RAMP "V" 24' LT.
302	11,079.811	33,734.558	P.O.T. RDWY. "G" END RAMP "U" 24' RT.
303	11,083.501	33,735.284	P.O.T. RDWY. "G" BEGIN RAMP "S" 12' LT.
304	11,908.111	34,114.581	P.O.T. RDWY. "C" END RAMP "V" 24' RT.
305	12,517.397	34,163.095	P.O.T. RDWY. "B" BEGIN RAMP "U" 24' LT.
306	8,825.713	34,409.343	P.O.T. RDWY. "A" BEGIN RAMP "T" 12' LT.
307	8,185.042	34,786.593	℄ F.A. 14, 20' LT. OF P.C.C. D-5 & 6
308	8,317.532	34,635.516	P.O.C. RDWY. "D" END RAMP 13.73'LT.
			TEMPORARY ROADWAY "D"
309	8,074.520	34,860.871	P.I. CURVE D-8 TEMP. RDWY. "D"
310	7,957.787	34,921.747	P.T. CURVE D-8 TEMP. RDWY. "D"
311	7,750.626	35,029.782	P.O.T. TEMP. RDWY. "D" ℄ SHIFTS 14' LT.
312	7,757.099	35,042.195	P.C. CURVE D-9 TEMP. RDWY. D
313	7,640.430	35,103.038	P.I. CURVE D-9 TEMP. RDWY. "D"
314	7,543.471	35,191.990	P.T. CURVE D-9 TEMP. RDWY. "D"
315	7,692.366	35,079.084	P.O.C. TEMP. RDWY. "D" NOSE 31' RT.
316	7,676.025	35,052.740	NOSE TEMP. RDWY. "D" & TUDOR AVE.
			TEMPORARY ROADWAY "A"
317	8,101.565	34,890.343	PI. CURVE A-6 TEMP. RDWY. "A"
318	8,030.910	35,001.429	P.T. CURVE A-6 TEMP. RDWY. "A"
319	7,905.572	35,198.489	P.O.T. TEMP. RDWY. "A" ℄ SHIFTS 14' RT.
320	7,893.759	35,190.975	P.C. CURVE A-7 TEMP. RDWY. "A"
321	7,823.115	35,302.043	P.I. CURVE A-7 TEMP. RDWY. "A"
322	7,726.136	35,391.046	P.T. CURVE A-7 TEMP. RDWY. "A"
323	7,854.355	35,248.407	P.O.C. TEMP. RDWY. "A" NOSE 33' LT.
324	7,880.900	35,268.013	NOSE TEMP. RDWY. "A" & PIGGOTT AVE.
			MISCELLANEOUS POINTS
325	7,595.641	35,327.474	℄ F.A.14, 35' RT. OF P.T. A-5
326	7,565.683	35,354.966	℄ F.A. 14, P.O.T. TRAVERSE LINE
			GOODRICH-PIGGOTT CONNECTOR
327	8,626.676	34,231.330	P.O.T. G-P CONN., P.O.T. TRAVERSE LINE
328	8,879.209	34,000.796	P.I. GOODRICH-PIGGOTT CONNECTOR
329	8,966.756	34,096.375	P.O.T. G-P CONN., P.O.T. ROADWAY 'A'

POINT CODE NO.	COORDINATE NORTH	COORDINATE EAST	DESCRIPTION
			TUDOR - PIGGOTT CONNECTOR
330	8,812.736	34,434.751	℄ T-P CONNECTOR AND TRAVERSE LINE INTERSECTION
331	8,796.566	34,449.623	P.C. CURVE T-P-1
332	8,668.423	34,567.472	P.I. CURVE T-P-1
333	8,494.797	34,580.249	P.T. CURVE T-P-1 ℄ SHIFTS 15' LT.
334	8,495.898	34,595.208	P.O.T. T-P CONNECTER
335	8,416.835	34,601.026	P.T. CONNECTOR AND ROADWAY "A" INTERSECTION
336	8,348.420	34,606.061	P.T. CONNECTOR AND ROADWAY "D" INTERSECTION
337	8,252.547	34,613.116	P.O.T. T-P CONNECTOR ℄ SHIFTS 15' LT.
338	8,253.648	34,628.075	P.C. CURVE T-P-2
339	8,149.632	34,635.729	P.I. CURVE T-P-2
340	8,072.796	34,706.258	P.C. CURVE T-P-2

POINT CODE NO.	COORDINATE NORTH	COORDINATE EAST	DESCRIPTION
			ROADWAY "E"
400	6,436.555	32,077.745	P.C. CURVE E-1
401	6,436.963	32,065.752	P.C. CURVE E-2 (12' RT.)
402	6,267.475	32,071.997	P.I. CURVE E-1
403	6,160.533	32,056.354	P.I. CURVE E-2
404	6,098.821	32,085.294	P.T. CURVE E-1
405	5,884.799	32,078.094	P.T. CURVE E-2 (24' RT.)
406	5,763.001	32,111.771	P.O.T. END RDWY "E"
			ROADWAY "F"
407	5,765.359	32,141.678	P.C. CURVE F-1 BEGIN RDWY "F"
408	5,873.528	32,159.836	P.C. CURVE F-2 (24' RT.)
409	5,917.916	32,129.650	P.I. CURVE F-1
410	6,104.930	32,152.946	P.I. CURVE F-2
411	6,070.668	32,138.859	P.T. CURVE F-1
412	6,336.015	32,166.878	P.T. CURVE F-2 (12' RT.)
			ROADWAY "EF"
413	5,764.180	32,126.725	P.O.T. BEGIN RDWY "EF"
414	5,751.221	32,127.746	P.O.T. NOSE POINT
415	5,744.242	32,128.297	℄ INTS. OF RDWY "EF" AND RAMP "W"
416	5,676.837	32,133.611	P.O.T. NOSE 1' LT.
417	5,676.916	32,134.608	NOSE POINT
418	5,496.057	32,186.985	P.C. CURVE EF-3 (39' LT.)
419	5,466.207	32,150.218	P.C. CURVE EF-1
420	5,373.200	32,118.430	P.C. CURVE EF-2
1440	5,318.320	32,150.626	P.O.T. NOSE POINT 0.283' RT.
1441	5,256.985	32,144.744	P.O.T. NOSE 0.565' RT.
1442	5,257.059	32,144.184	NOSE POINT
421	5,369.741	32,196.944	P.I. CURVE EF-3
422	5,308.313	32,162.667	P.I. CURVE EF-1
423	5,246.530	32,167.382	P.T. CURVE EF-3
424	5,246.884	32,128.389	P.I. CURVE EF-2
425	5,154.299	32,125.714	P.T. CURVE EF-1
426	5,123.673	32,098.827	P.T. CURVE EF-2
427	5,040.192	32,098.336	P.O.T. LEFT CORNER OF 4' STUB 29' LT.
428	4,524.620	31,974.635	P.O.T. END RDWY "EF"

	TRAVERSE POINT LOCATION (CONTINUED FROM SHEET No.)		
12-E	7,668.961	35,467.713	TRAVERSE POINT
14-E	7,462.290	35,242.093	TRAVERSE POINT

POINT CODE NO.	COORDINATE NORTH	COORDINATE EAST	DESCRIPTION
			RAMP "X"
440	4,519.954	31,994.083	P.O.T. BEGIN RAMP "X"
441	5,028.024	32,144.752	P.O.T. LEFT CORNER 4' STUB 19' RT
442	5,033.426	32,126.536	LEFT CORNER 4' STUB
443	5,155.018	32,182.412	P.C. CURVE X-1
444	5,268.426	32,216.043	P.I. CURVE X-1
445	5,376.457	32,264.227	P.R.C. CURVE X-1/X-2
446	5,503.273	32,320.788	P.I. CURVE X-2
447	5,641.095	32,303.856	P.R.C. CURVE X-2/X-3
448	5,639.144	32,287.975	P.R.C. CURVE X-4 16' LT.
449	5,730.818	32,292.833	P.I. CURVE X-3
450	5,743.076	32,275.206	P.I. CURVE X-4
451	5,818.720	32,313.923	P.T. CURVE X-3
452	5,844.900	32,299.637	P.T. CURVE X-4 20' LT.
			RAMP "W"
460	5,991.868	32,307.130	P.C. CURVE W-1 BEGIN RAMP "W"
461	5,970.358	32,320.480	P.C. CURVE W-2 18.38' LT.
462	5,841.034	32,289.451	P.I. CURVE W-2
463	5,842.560	32,271.306	P.I. CURVE W-1
1443	5,850.145	32,241.824	P.C.C. BEGIN 100-30'-100 COMPOUND CURVE
464	5,756.877	32,186.471	P.T. CURVE W-2 24' LT.
465	5,755.573	32,144.777	P.T. CURVE W-1

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

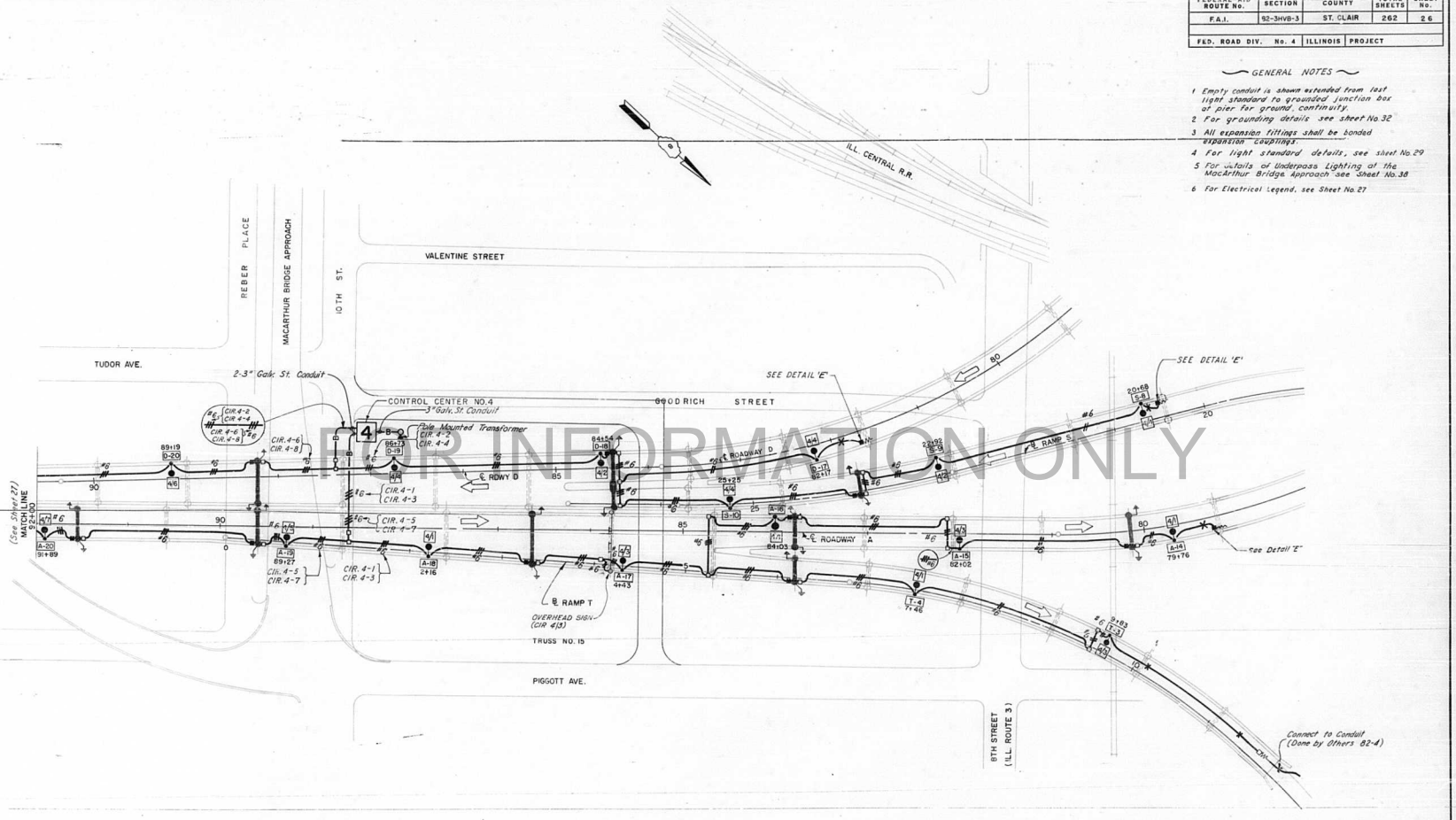
LIST OF COORDINATE POINTS AND DESCRIPTIONS

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

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I.	52-3HV8-3	ST. CLAIR	262	26
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		

GENERAL NOTES

1 Empty conduit is shown extended from last light standard to grounded junction box at pier for ground continuity.
2 For grounding details see sheet No. 32
3 All expansion fittings shall be bonded expansion couplings
4 For light standard details, see sheet No. 29
5 For details of Underpass Lighting at the MacArthur Bridge Approach see Sheet No. 38
6 For Electrical Legend, see Sheet No. 27



50 0 50 100
scale feet

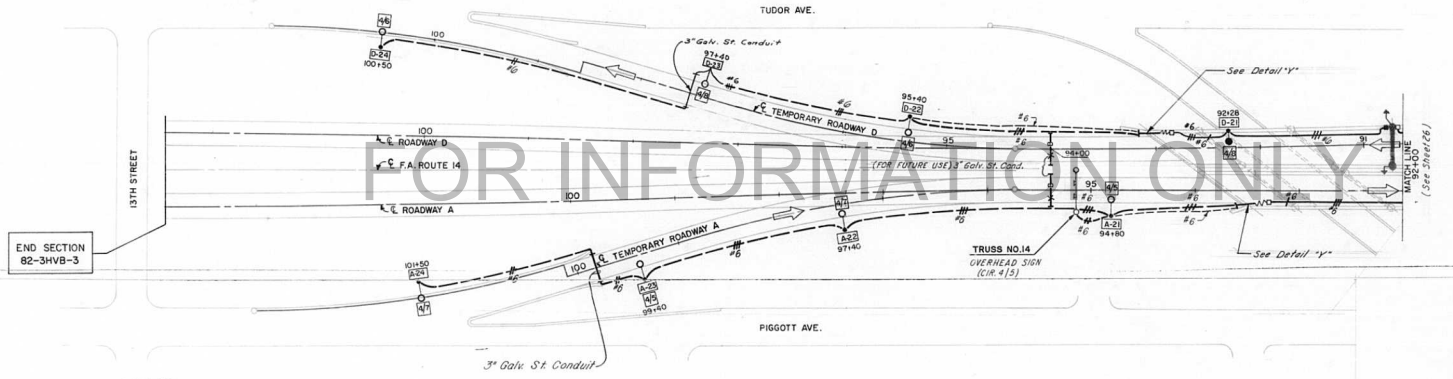
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS
F.A. ROUTE 14

ELECTRICAL PLANS

RDWY 'A' STA. 79+00 to STA. 92+00

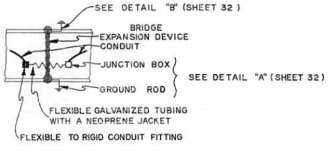
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILL.

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB-3	ST. CLAIR	262	27
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		



LEGEND

- 48+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
- CONDUIT STUBBED & CAPPED
- BARE THINNED STANDARD COPPER GROUND CABLE IN CONDUIT
- #6 — NUMBER OF CABLES & SIZE
- B — 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
- PAD MOUNTED TRANSFORMER
- POLE MOUNTED TRANSFORMER
- DIRECTION OF TRAFFIC
- #6 GROUND CONDUCTOR IN TRENCH
- UNDERPASS LIGHT



Note
All Standards have a TYPE II LIGHT PATTERN except for Standards A-22, D-22 & T-4 which have a TYPE I LIGHT PATTERN

50 0 50 100
scale feet

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS
F.A. ROUTE 14

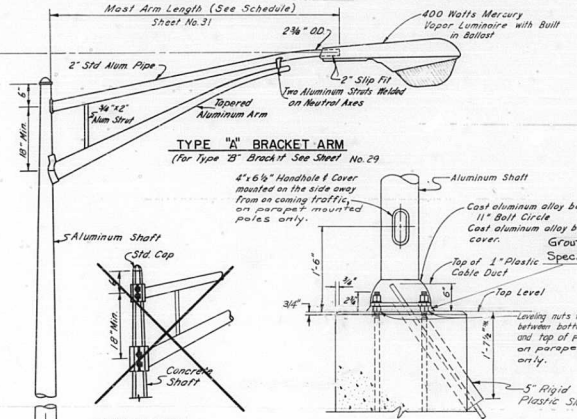
ELECTRICAL PLANS

RDWY 'A' STA. 92+00 to 13TH STREET

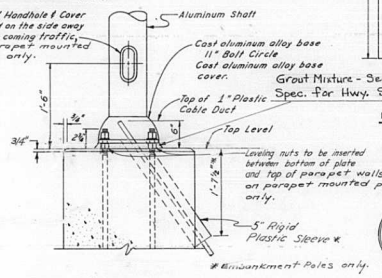
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILL.

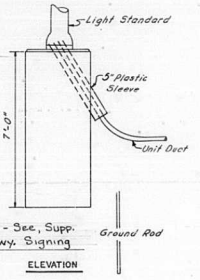
cem 7-25-67 Relocated luminaire No. 97+40

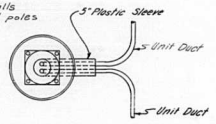
FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB-3	ST. CLAIR	262	2-8
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		



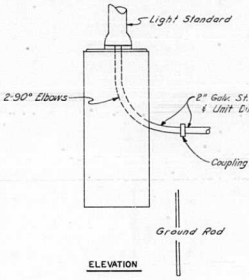
TYPE "A" BRACKET ARM
(for Type "B" Bracket See Sheet No. 29

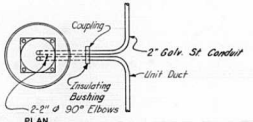




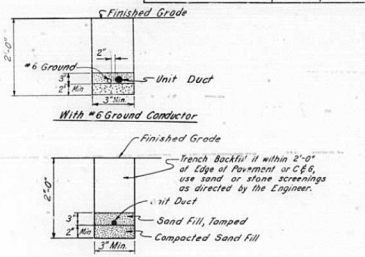


UNIT DUCT & UNIT DUCT IN FOUNDATION

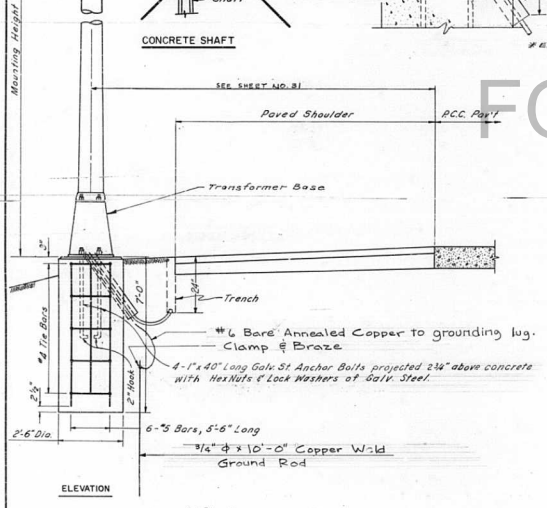


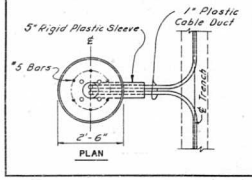


CONDUIT & UNIT DUCT IN FOUNDATION

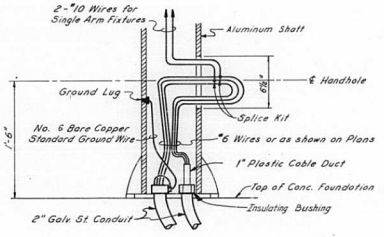


UNIT DUCT TRENCH
(Without #6 Ground Conductor)

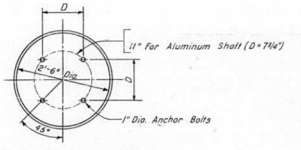




DETAILS OF LIGHT STANDARD ON EMBANKMENT WITH UNIT DUCT & UNIT DUCT IN FOUNDATION



POLE BASE WIRING DIAGRAM
(Steel Conduit and Unit Duct Illustrated)



DETAIL OF BOLT CIRCLE

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

ELECTRICAL DETAILS

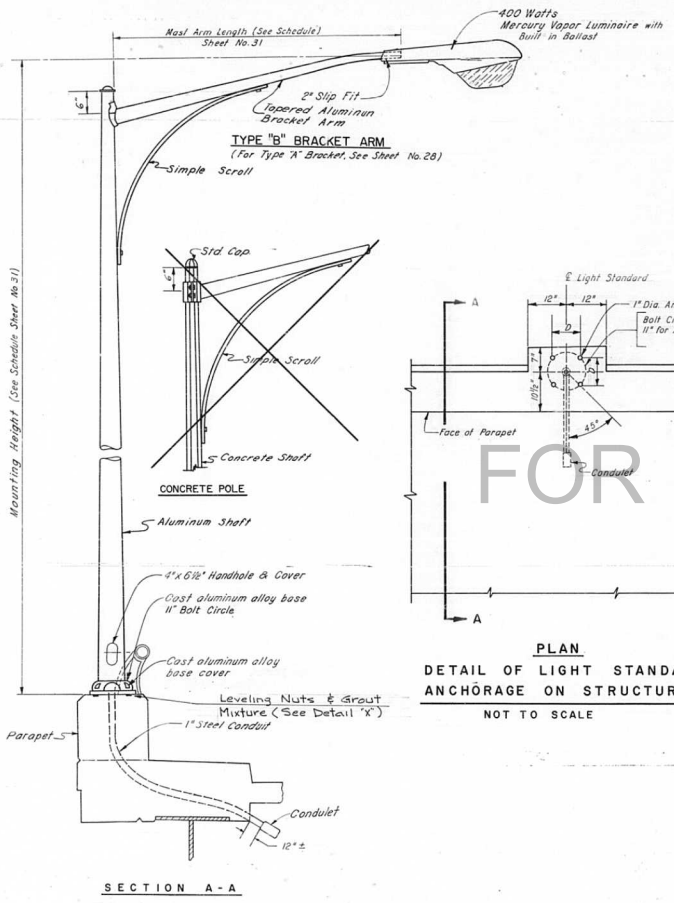
LIGHT STANDARD ON EMBANKMENT & CONDUIT ARRANGEMENTS

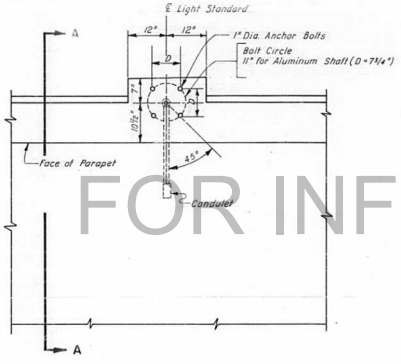
NOT TO SCALE

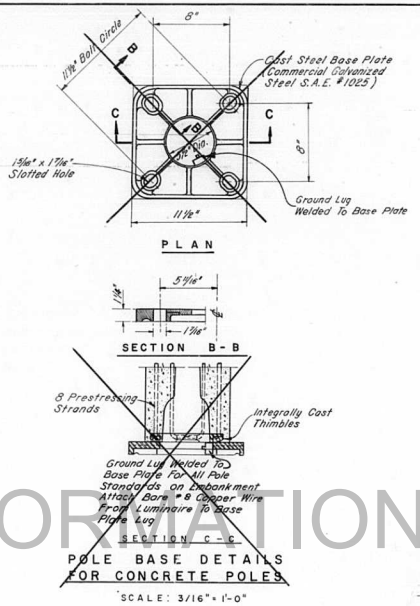
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILL.

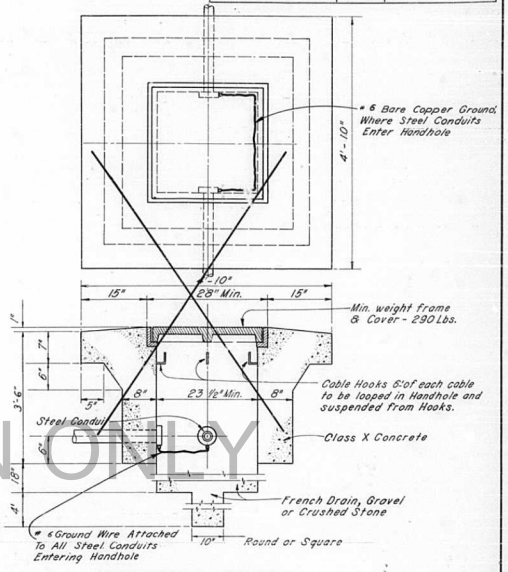
CEM 7-25-67 Rev. Anchor Base fs Transformer Base

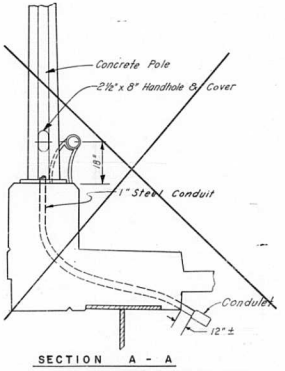
FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
FAI 70	82-3HVB-3	ST. CLAIR	262	29
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		











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

ELECTRICAL DETAILS

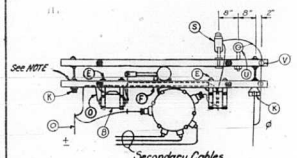
LIGHT STANDARDS ON BRIDGES

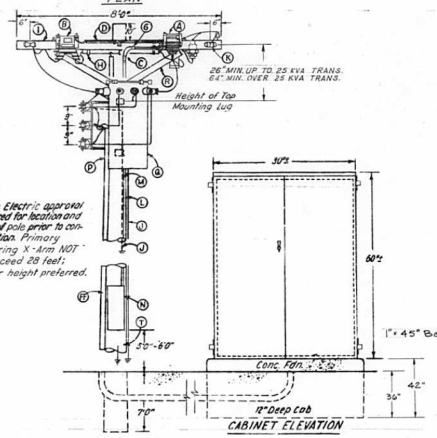
SCALE AS NOTED

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

CEM Rev. 7-25-67 Removed "Length of Shaft" Note from Detail A-A

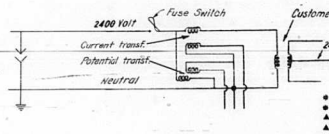
FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
FAI 70	82-3HVB-3	ST CLAIR	262	30
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		





NOTE:
Union Electric approval required for location and size of pole prior to construction. Primary Metering X-Arm NOT TO exceed 28 feet; Lower height preferred.

TRANSFORMER & PRIMARY METERING POLE 2400/240/480V
ELEVATION

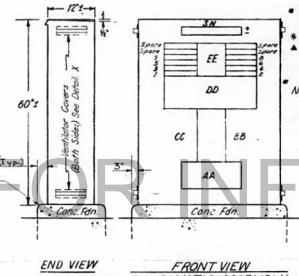


AA 100A,480V,2P 3"I" Frame Main Brkr.

DD 100A 2P 480V. Mech. held Contactor w/2#1 240V. Relay & Control Fuses.
EE 3ϕ 240/480 V. Dist. Panel w/EH Frame Brkrs.
FF #1 Wire Conduit. (See P)

- ● A Current Transformer.
- ● B Potential Transformer.
- ▲ C Service Entrance Cable #8-3/c ; 5KV
- ▲ D Service Entrance. #6-2/c ; 5KV
- ▲ E Machine Bolt - 3/8" x 8"
- F 2" Fibre Conduit.
- G Lead Cleat
- H Conduit Strap
- I Double #8 Crossarm.
- J #6 Ground Wire & 15'-0" Ground Rod
- K Clevis Type Insulators (Pri. for ϕ Sec. for 1ϕ)
- ▲ L Wood Moulding - 3/4"
- ▲ M Copper covered Staple.
- ● N Meter Enclosure.
- O 5000 Volt Insulated Wire.
- P Customer Conduit w/Wc. Entrance Cap.
- Q Transformer - 25 KVA at C.C. # A. Oil filled
- R "Y" Brace - 60"
- S 5 KV Fuse Switch
- T 35', Class 2, Butt treated Pole
- ● U 3000 V. Lightning Arrester
- V 5 KV. Pin Insulator

* Furnished by Utility & Installed by Contractor
▲ Furnished & Installed by Utility

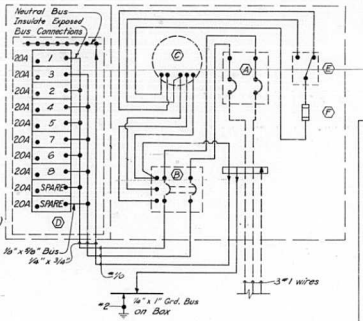


Note: Union Electric to provide Watthour meter & install & connect watthour meter. Union Electric will terminate primary supply in customer's sheed end insulator & clamp (K). Contractor to provide & install all other equipment shown on drawing. Contractor to ground instrument transformer case, single phase transformer case & meter enclosure.

All pole line equipment shall be in accordance with NEMA Standards and shall be approved by the Engineer.

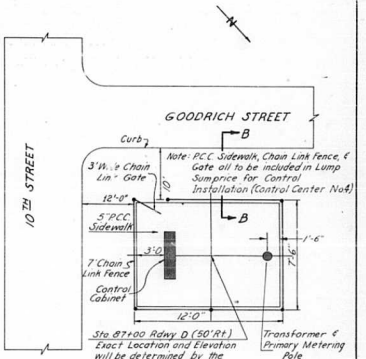
Note: Provide 4-2½% Taps on Single ϕ Transformer 2-2½% Taps above and 2-2½% Taps below normal.

DETAILS FOR CONTROL CENTER #4
(Feeder Conduits from Control Centers Not Shown)

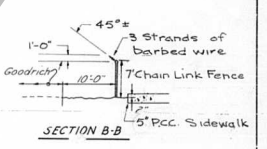


CONTROL CENTER No. 4
WIRING DIAGRAM
1ϕ 240/480 V. 3 WIRE DISTRIBUTION

DEVICE SCHEDULE		
Mark	Quantity	Description
(A)	1	100A.-2 Pole- 480V. J' Frame Main Breaker
(B)	1	100A.-2 Pole-480V. Mech. Held Contactor with 2W, 240V. Relay and Control Fuses. On Ebony Base 1" t. x 9" W. x 12" H. with 1/8" Back Insulating Panel.
(C)	1	Time Switch, 240V.-60~ S.P.D.T. (Break Before Make) Astronomic Dial-Spring Carry Over.
(D)	10-C.C.#2	Type "EH" Frame Circuit Breaker, Single Pole, 277 Volt, 50 Ampere Rating., Trip Size as Shown
(E)	1	Toggle Switch, 20A. 250V. A.C. 3 Way with 4"-x 2 1/8" x 1/16" Bar and Switch Cover.
(F)	1	Open Fuse Cutout Block, 30A.-250V. I.P. with 15A. One Time Fuse.

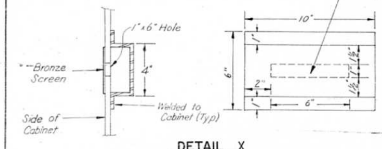


PLAN

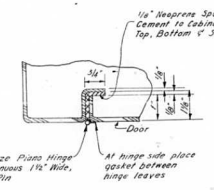


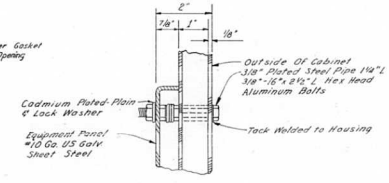
SECTION B-B

TREATMENT AROUND CONTROL CENTER NO. 4



DETAIL X
ALUMINUM VENTILATOR COVER
(1/8" x 8" x 12" Bent Plate)
Not to Scale





CONTROL CENTER CABINET DETAILS
CONTROL CENTER NO. 4

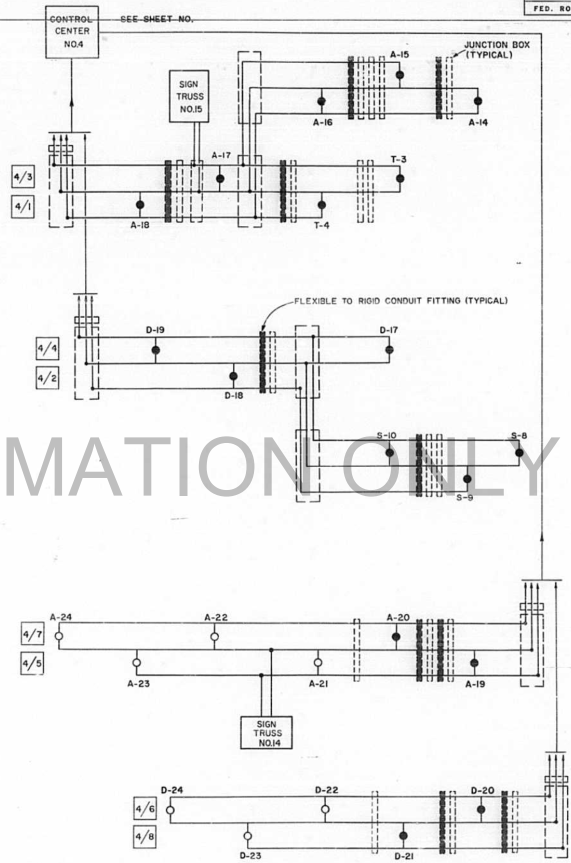
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS
ELECTRICAL DETAILS FOR
TRANSFORMER & PRIMARY METERING POLE & CONTROL CENTER 4
NOT TO SCALE
H. W. LOCHNER, INC. ENGINEERS CHICAGO, ILL.

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB-3	ST. CLAIR	262	31
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		

SCHEDULE OF LIGHT STANDARDS

CONTROL CENTER	CIRCUIT NO.	SHEET NO.	STANDARD NO.	LOCATION STATION REFERENCE	LIGHT PATTERN	LEFT OR RIGHT OF PAVEMENT EDGE (DIRECTION OF STA.)	BRIDGE	MOUNTING HEIGHT 34'	MOUNTING HEIGHT 36'	MOUNTING HEIGHT SPECIAL	~~NOMINAL POLE HEIGHT~~ ~~27'-3"~~	~~28'-6"~~	~~29'-3"~~	~~SPECIAL~~	BRACKET LENGTH 4'	6'	8'	15'	12'	REMARKS*
4	1		A-14	79+76 Rdwy. A	II	LT.	X	X			X				X					
4	3		A-15	82+02 Rdwy. A	II	LT.	X	X			X				X					
4	1		A-16	84+03 Rdwy. A	II	RT.	X	X			X				X					
4	3		A-17	4+43 Ramp T	II	RT.	X	X			X				X					
4	1		A-18	2+16 Ramp T	II	RT.	X	X			X				X					
4	3		T-3	9+83 Ramp T	II	LT.	X	X			X				X					
4	1		T-4	7+46 Ramp T	I	RT.	X	X			X				X					
4	5		A-19	89+27 Rdwy. A	II	LT.	X	X			X				X					
4	7		A-20	91+89 Rdwy. A	II	LT.	X	X			X				X					
4	5		A-21	94+80 Rdwy. A	II	LT.			X			X						X		18' From Edge of Pavement
4	7		A-22	97+40 Rdwy. A	I	LT.			X			X						X		18' From Edge of Pavement
4	5		A-23	99+40 Rdwy. A	II	LT.			X			X						X		18' From Edge of Pavement
4	7		A-24	101+50 Rdwy. A	II	RT.			X			X							X	Back of Curb Face
4	4		D-17	82+17 Rdwy. D	II	LT.	X	X			X				X					
4	2		D-18	84+54 Rdwy. D	II	RT.	X	X			X				X					
4	4		D-19	86+73 Rdwy. D	II	RT.	X	X			X				X					
4	4		S-8	20+68 Ramp S	II	RT.	X	X			X				X					
4	2		S-9	22+92 Ramp S	II	RT.	X	X			X				X					
4	4		S-10	25+25 Ramp S	II	LT.	X	X			X				X					
4	6		D-20	89+19 Rdwy. D	II	RT.	X	X			X				X					
4	8		D-21	92+28 Rdwy. D	II	RT.	X	X			X				X					
4	6		D-22	95+40 Rdwy. D	I	RT.			X			X						X		18' From Edge of Pavement
4	8		D-23	97+40 Rdwy. D	II	LT.			X			X						X		18' From Edge of Pavement
4	6		D-24	100+50 Rdwy. D	II	LT.			X			X							X	Back of Curb Face

* REMARKS REFER TO POLE LOCATIONS



SCHEMATIC WIRING DIAGRAM
(240/480V., 1Ø 3WIRE)

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

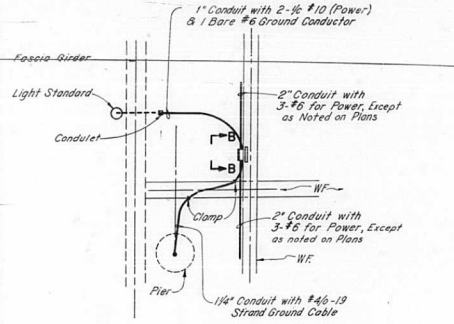
ELECTRICAL DETAILS

SCHEMATIC WIRING DIAGRAMS
CONTROL CENTER NO.4
SCHEDULE OF LIGHT STANDARDS

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

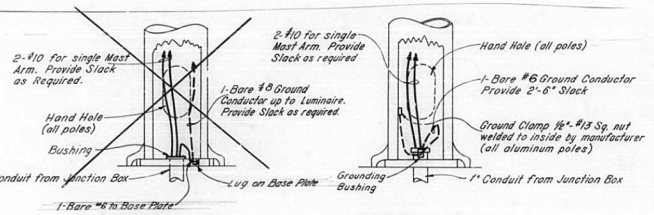
CEM 7-25-67 Rev. Schedule of Light Stds.

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
FAI 70	82-3HVB-3	ST. CLAIR	262	32
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		



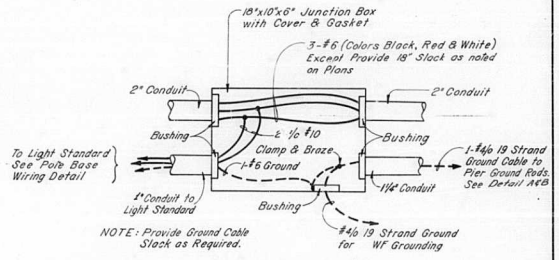
SECTION A - A

PLAN



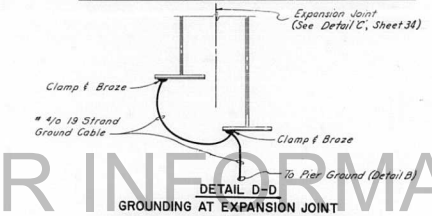
CONCRETE POLE ALUMINUM POLE

POLE BASE WIRING DETAILS



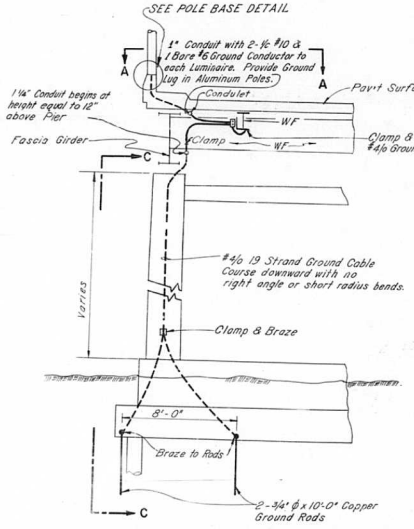
SECTION B - B*

TYPICAL JUNCTION BOX DETAIL AT LIGHT STANDARD GROUNDED THRU EXPANSION PIER



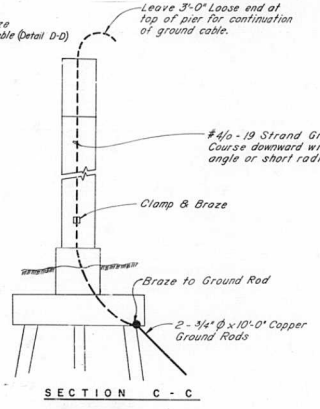
DETAIL D-D

GROUNDING AT EXPANSION JOINT WITHOUT CONDUIT & JUNCTION BOX



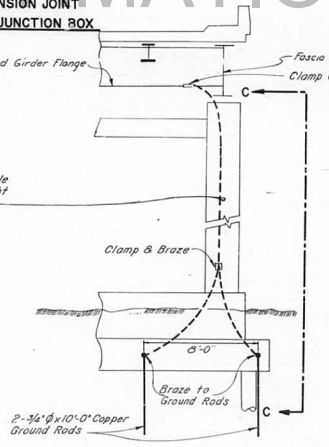
FRONT ELEVATION OF TYPICAL GROUNDING AT EXPANSION PIER WITH LIGHT STANDARD

DETAIL 'A'



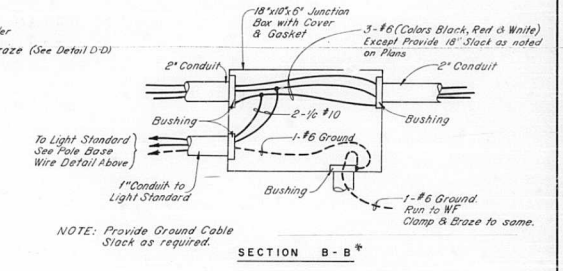
SECTION C - C

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 WF

*Junction Boxes located 10' or less from a grounded expansion pier shall be grounded through the expansion pier. Junction Boxes located more than 10' from a grounded expansion pier shall be grounded at a WF beam.

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

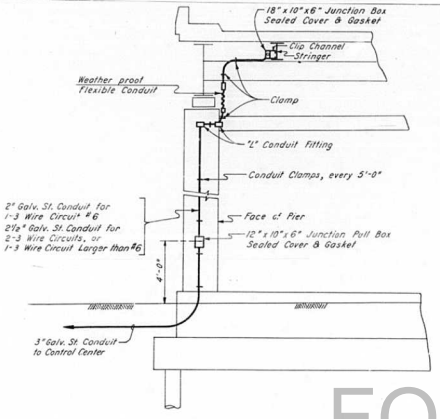
ELECTRICAL

TYPICAL GROUNDING DETAILS
FOR BEAMS, JUNCTION BOXES & POLES

NOT TO SCALE

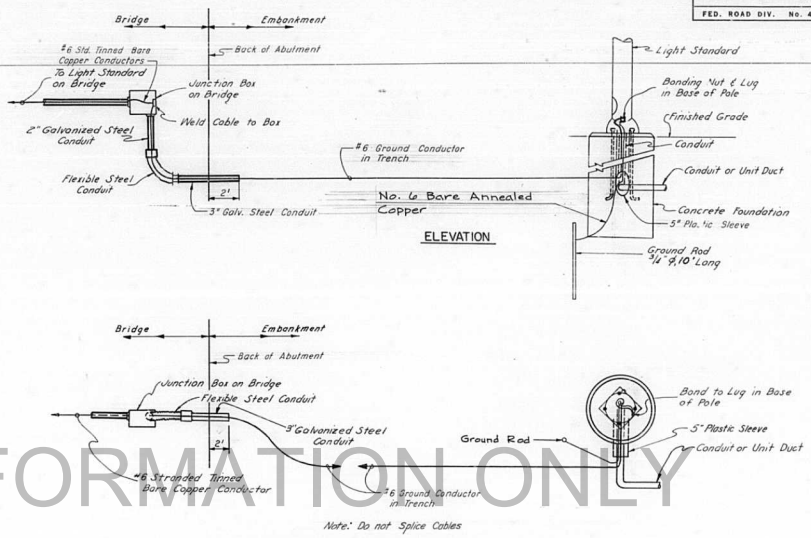
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILL.

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB-3	ST. CLAIR	262	33
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		



TYPICAL SERVICE FEED AT PIER

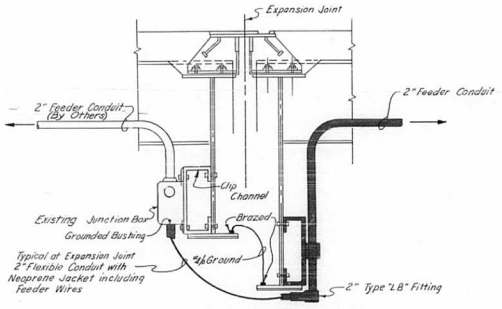
DETAIL G



Note: Do not Splice Cables

GROUNDING & ARRANGEMENT OF CONDUIT THRU ABUTMENT

DETAIL Y



TYPICAL DETAIL FOR FEEDER CONDUIT RUN AT EXPANSION JOINT WITH EXISTING JUNCTION BOX

DETAIL E

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

ELECTRICAL DETAILS

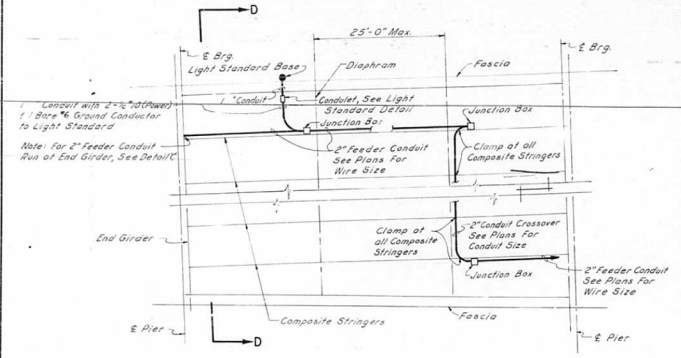
DETAIL 'E'

TYPICAL SERVICE FEED AT PIER (DETAIL G)
GROUNDING & ARRANGEMENT OF CONDUIT THRU ABUTMENT (DETAIL Y)

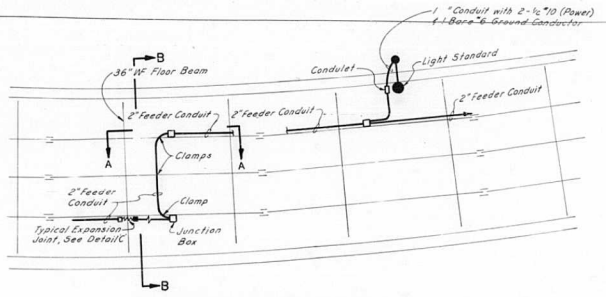
NOT TO SCALE

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

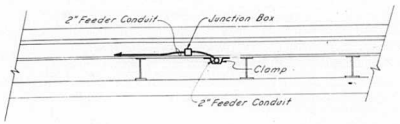
FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB-3	ST. CLAIR	262	34
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		



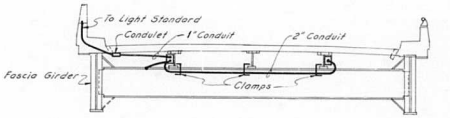
ARRANGEMENT OF CONDUIT AND JUNCTION BOXES FOR SIMPLE SPAN FRAMING
(VARYING ROADWAY WIDTH)



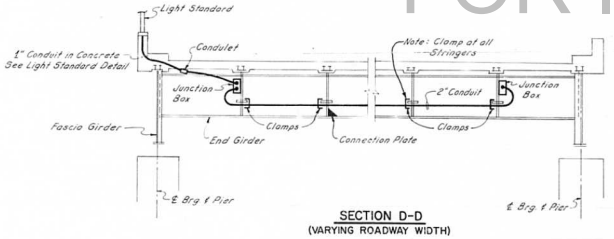
ARRANGEMENT OF CONDUIT AND JUNCTION BOXES FOR CONTINUOUS SPAN FRAMING
(CONSTANT ROADWAY WIDTH)



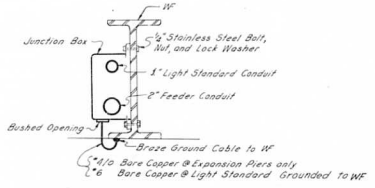
SECTION A-A



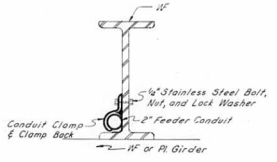
SECTION B-B



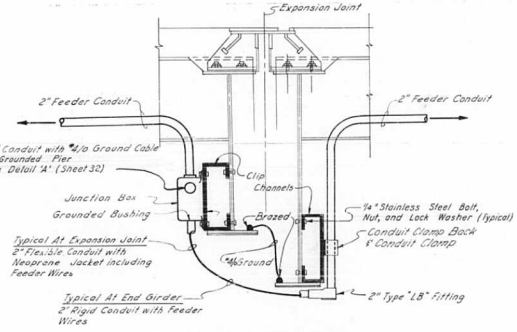
SECTION D-D
(VARYING ROADWAY WIDTH)



DETAIL OF JUNCTION BOX MOUNTING ON BRIDGE



DETAIL OF FEEDER CONDUIT SUPPORT



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

DETAIL C

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.

SIGN TRUSS SCHEDULE

TRUSS NO.	RDWY. OR RAMP NO. STATION	LOCATION B=BRIDGE, E=EARTH	NO. OF SIGNS ON TRUSS	SIGN NUMBER ON TRUSS	ELEC. LOAD (WATTS)	CIRCUIT NUMBER
1	RDWY. "A" 20+52.92	B	2	DONE BY OTHERS	720 720	CIR 1-17 CIR 1-15
2	RDWY. "D" 98+19	B	3	DONE BY OTHERS	720 720	CIR 1-15 CIR 1-14
3	RDWY "D" 72+50	B	2	DONE BY OTHERS	960	CIR 1-8
4	RAMP "T" RDWY "H" 16+83	E	2	DONE BY OTHERS	960	CIR 2-8
5	RDWY "H" 92+61	E	2	DONE BY OTHERS	960	CIR 2-8
7	RDWY "B" 106+70	B	2	DONE BY OTHERS	720 720	CIR 3-5 CIR 3-7
8	RDWY "G" 32+41	B	3	DONE BY OTHERS	720 720	CIR 2-5 CIR 2-7
9	RDWY "G" 87+35	B	3	DONE BY OTHERS	720 720	CIR 2-5 CIR 2-7
10	RDWY "G" 77+68	B	2	DONE BY OTHERS	960	CIR 2-5
11	RDWY "F" 52+55	B	2	DONE BY OTHERS	960	CIR 1-12
12	RDWY "F" 42+55	E	2	DONE BY OTHERS	960	CIR 5-2
13	ILL ROUTE 3	E	2	DONE BY OTHERS	720 480	CIR 5-6
14	RDWY "A" 95+30	E	2	SE 7 - SE 2	960	CIR 4-5
15	RDWY "A" 85+77	B	2	SE-19, SE-18	960	CIR 4-3
16	MAIN STREET 17+00	E	1	DONE BY OTHERS	450	CIR 3-6

FIXTURE NOTES

Lighting fixture shall be fabricated of 0.064" Aluminum sheet as per specification A.S.T.M. B-209-58T-MIA-H14. This includes Support Clips, Reflector Tabs, Hinges and Locking Latch.

Machine screws shall be #8-32 with nuts and lock washer made of aluminum or stainless steel unless noted.

Other metal parts shall be made of Bronze, Brass, Copper Beryllium with non corrosive finish when necessary.

Reflector shall be made of .020" (Min.) Aluminum lighting sheet with specular finish and shall be 69" long.

Reflector shall be removable for cleaning without causing permanent distortion of Reflector shape. The reflecting surface shall have a dense protective coating of oxide not less than 7.5 milligrams per square inch. The Reflector shall be given a sealing treatment such that there will no staining when subject to a water solution (1 gram per 50 c.c.) of Anthraquinone violet R at room temperature. One drop of the solution shall be allowed to remain in contact with the surface for five minutes and wash away with running water. After drying with soft Cloth Observe for stain.

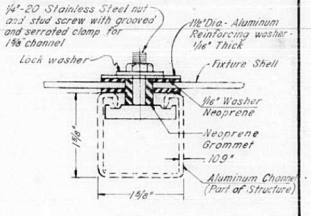
Ballast shall be rated at 1000 MA, 240 Volt and designed for Cold Weather reliable starting at -20°F, in conjuction with rapid start flourescent lamps T2T12-H.O.

Lamps to be mounted in fixture within 1" of grounded metal reflector which is full length of lamps.

Ballast and terminal blocks shall be marked with legible symbols. Conductors shall be tagged and their corresponding identification marked on the terminal board.

The Contractor shall aim and space the lighting fixture under night conditions to provide the most advantageous light distribution over the sign surface to be illuminated. Final aiming of the fixture shall be approved by the Engineer.

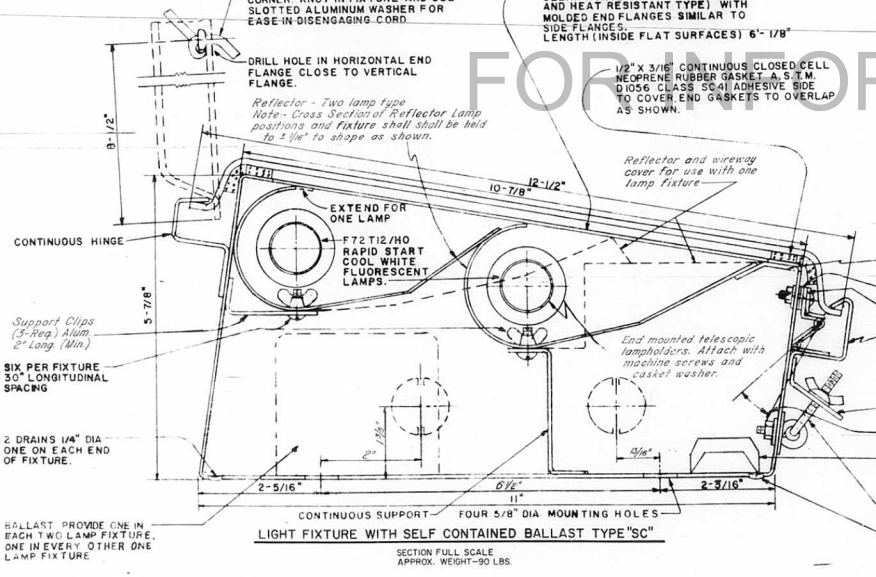
FEDERAL-AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVB-3	ST. CLAIR	262	35
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



FIXTURE MOUNT DETAIL

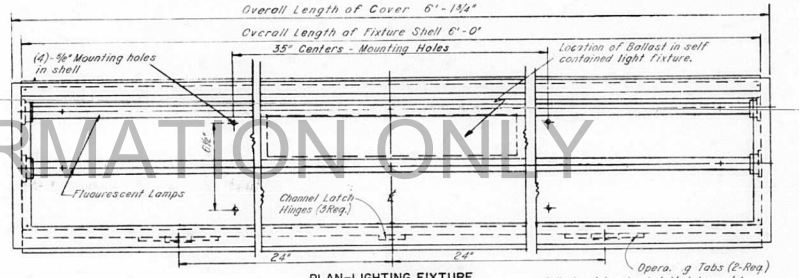
SECTION FULL SCALE

Furnish four sets of mounting hardware as shown. Attach to fixture.



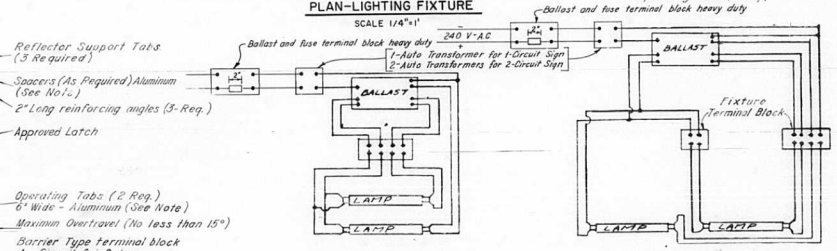
LIGHT FIXTURE WITH SELF CONTAINED BALLAST TYPE "SC"

SECTION FULL SCALE
APPROX. WEIGHT-90 LBS.



PLAN-LIGHTING FIXTURE

SCALE 1/4"=1'



TYPICAL FIXTURE WIRING CIRCUITS

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

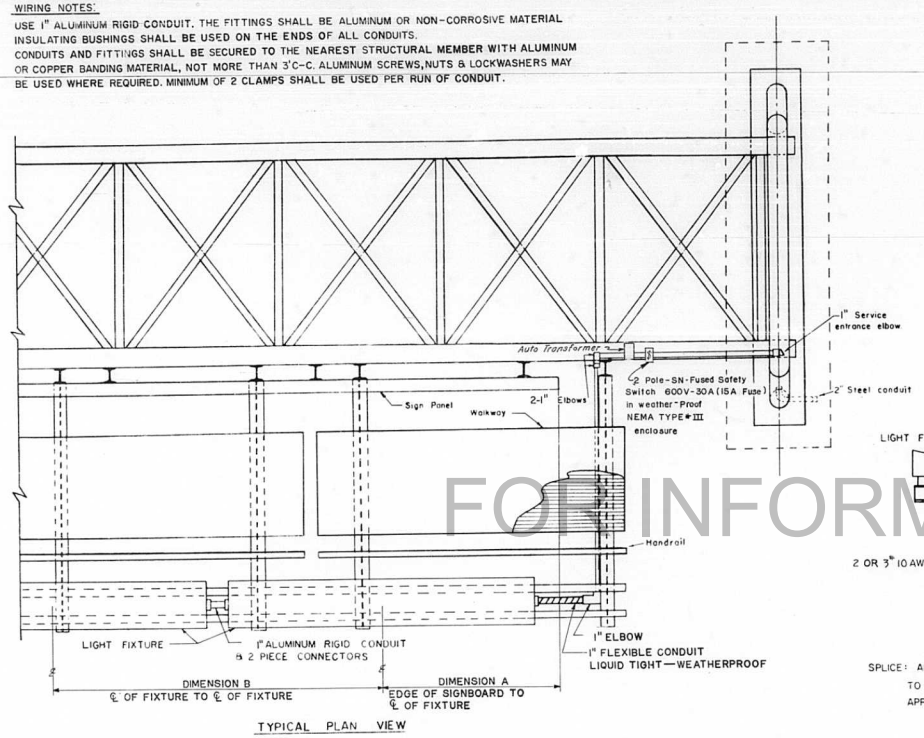
ELECTRICAL DETAIL FOR
FLUORESCENT SIGN
LIGHTING FIXTURES

SCALE AS NOTED

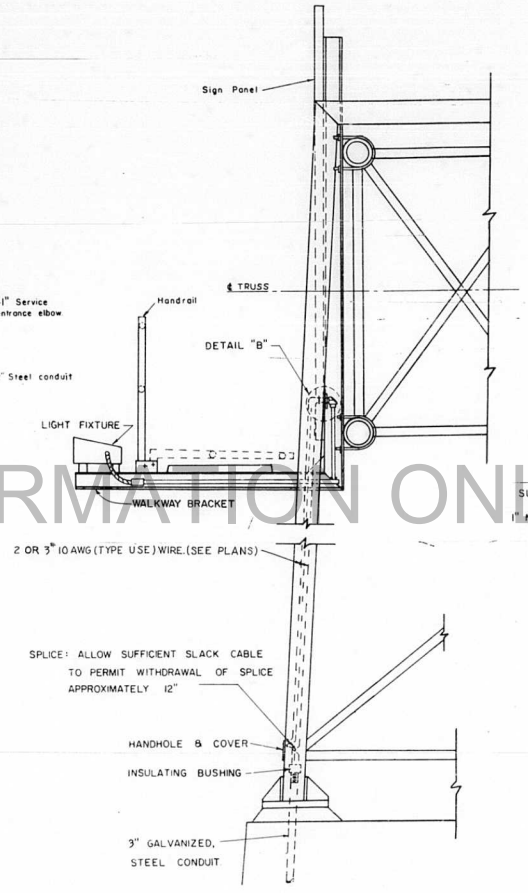
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILL.

WIRING NOTES:
USE 1" ALUMINUM RIGID CONDUIT. THE FITTINGS SHALL BE ALUMINUM OR NON-CORROSIVE MATERIAL
INSULATING BUSHINGS SHALL BE USED ON THE ENDS OF ALL CONDUITS.
CONDUITS AND FITTINGS SHALL BE SECURED TO THE NEAREST STRUCTURAL MEMBER WITH ALUMINUM OR COPPER BANDING MATERIAL, NOT MORE THAN 3'C-C. ALUMINUM SCREWS, NUTS & LOCKWASHERS MAY BE USED WHERE REQUIRED. MINIMUM OF 2 CLAMPS SHALL BE USED PER RUN OF CONDUIT.

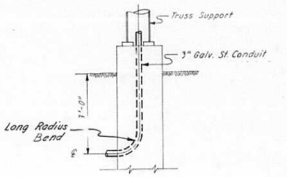
FEDERAL-AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVB-3	ST. CLAIR	262	36
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



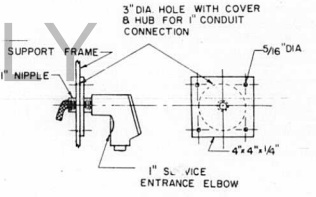
TYPICAL PLAN VIEW



TYPICAL SIDE ELEVATION



CONDUIT DETAILS FOR SIGN FOUNDATION ON EMBANKMENT



DETAIL "B"

SIGN SCHEDULE

(See Sheet No. for Truss Schedule)

SIGN NUMBER	NO. OF SIGNS	TYPE OF FIXTURE	LENGTH OF SIGN PANEL (FT)	HEIGHT OF SIGN PANEL (IN)	NO. OF FIXTURES PER SIGN	NO. OF LAMPS PER SIGN	FIXTURE SPACING SEE PLAN VIEW DIM. A	FIXTURE SPACING SEE PLAN VIEW DIM. B
~~SE-1~~	~~1~~	~~S.C.~~	~~24'~~	~~138"~~	~~4~~	~~8~~	~~30"~~	~~76"~~
SE-2	1	S.C.	12'	120"	2	4	34"	76"
SE-18	1	S.C.	12'	120"	2	4	34"	76"
SE-7	1	S.C.	12'	144"	2	4	34"	76"
~~SE-10~~ *	~~2~~	~~S.C.~~	~~13'-6"~~	~~108"~~	~~2~~	~~4~~	~~10"~~	~~82"~~
~~SE-11~~ *	~~1~~	~~S.C.~~	~~13'-6"~~	~~126"~~	~~2~~	~~4~~	~~38"~~	~~82"~~
~~SE-12~~ *	~~1~~	~~S.C.~~	~~15'-0"~~	~~84"~~	~~2~~	~~4~~	~~41"~~	~~98"~~
SE-19	1	S.C.	14'-0"	120"	2	4	40"	88"
~~SE-20~~ *	~~2~~	~~S.C.~~	~~14'-0"~~	~~108~~	~~2~~	~~4~~	~~46"~~	~~88"~~

SIGN NUMBER	NO. OF SIGNS	TYPE OF FIXTURE	LENGTH OF SIGN PANEL (FT)	HEIGHT OF SIGN PANEL (IN)	NO. OF FIXTURES PER SIGN	NO. OF LAMPS PER SIGN	FIXTURE SPACING SEE PLAN VIEW DIM. A	FIXTURE SPACING SEE PLAN VIEW DIM. B
~~SE-23~~ *	~~1~~	~~S.C.~~	~~16'-0"~~	~~96"~~	~~2~~	~~4~~	~~41"~~	~~98"~~
~~SE-24~~ *	~~2~~	~~S.C.~~	~~11'-0"~~	~~108"~~	~~2~~	~~4~~	~~28"~~	~~76"~~
~~SE-26~~ *	~~1~~	~~S.C.~~	~~14'-0"~~	~~96"~~	~~2~~	~~4~~	~~46"~~	~~88"~~
~~SE-27~~ *	~~1~~	~~S.C.~~	~~14'-6"~~	~~108"~~	~~2~~	~~4~~	~~41"~~	~~92"~~
~~SE-28~~ *	~~1~~	~~S.C.~~	~~12'-6"~~	~~120"~~	~~2~~	~~4~~	~~32"~~	~~76"~~
~~SE-29~~ *	~~1~~	~~S.C.~~	~~15'-0"~~	~~120"~~	~~2~~	~~4~~	~~41"~~	~~98"~~
~~SE-8~~ *	~~1~~	~~S.C.~~	~~10'-6"~~	~~36"~~	~~2~~	~~4~~	~~26"~~	~~76"~~
~~SE-9~~ *	~~1~~	~~S.C.~~	~~17'-0"~~	~~84"~~	~~3~~	~~6~~	~~26"~~	~~76"~~
~~SE-21~~ *	~~1~~	~~S.C.~~	~~11'-6"~~	~~108"~~	~~2~~	~~4~~	~~28"~~	~~76"~~

* DONE BY OTHERS

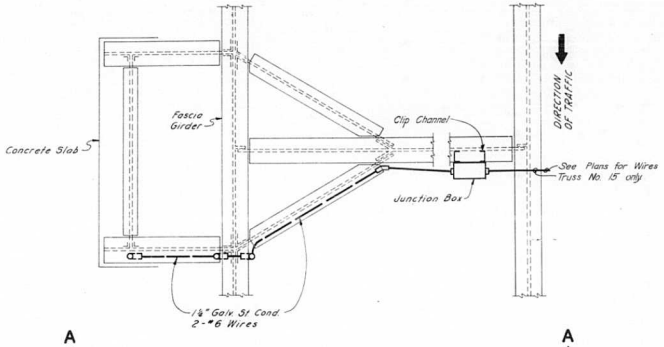
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ELECTRICAL DETAILS FOR SIGN TRUSSES

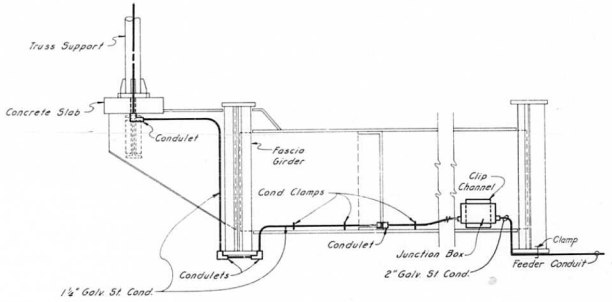
NOT TO SCALE

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

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB-3	ST. CLAIR	262	37
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		



PLAN



ELEVATION
VIEW A-A

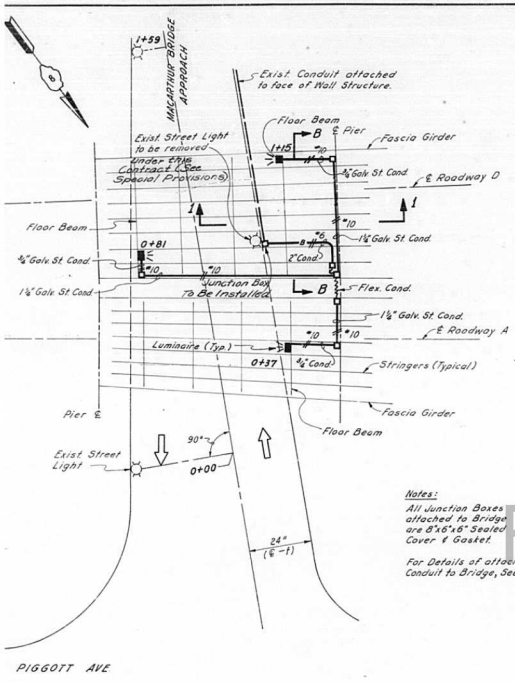
SIGN TRUSS NO. 15
Right Side of Bridge

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

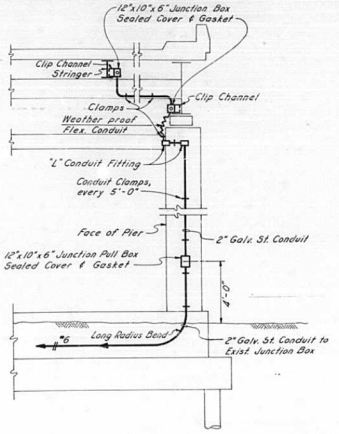
ELECTRICAL DETAILS
ATTACHING CONDUIT TO BRIDGE FOR SIGN TRUSS

NOT TO SCALE

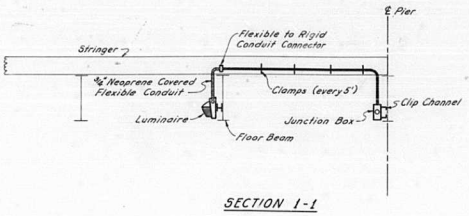
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILL.



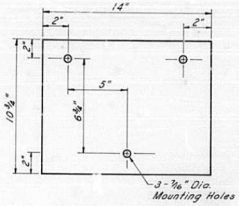
PLAN



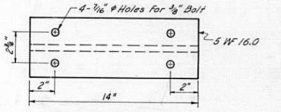
SECTION B-B



SECTION 1-1



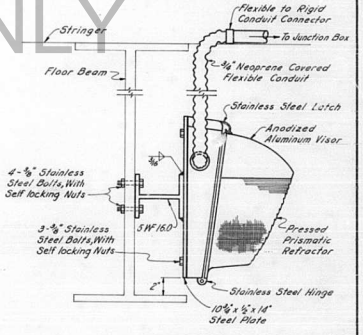
DETAIL OF STEEL PLATE
(3 Required)



DETAIL OF 5 WF
(3 Required)

Notes:
All Junction Boxes attached to Bridge are 8"x6"x6" Sealed Cover & Gasket.

For Details of attaching Conduit to Bridge, See Sheet No. 34



ELEVATION

UNDERPASS LUMINAIRE
(MERCURY VAPOR W/BUILT IN TAPPED BALLAST; 250 W)
ATTACHED TO BRIDGE

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB-3	ST. CLAIR	262	38
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		

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

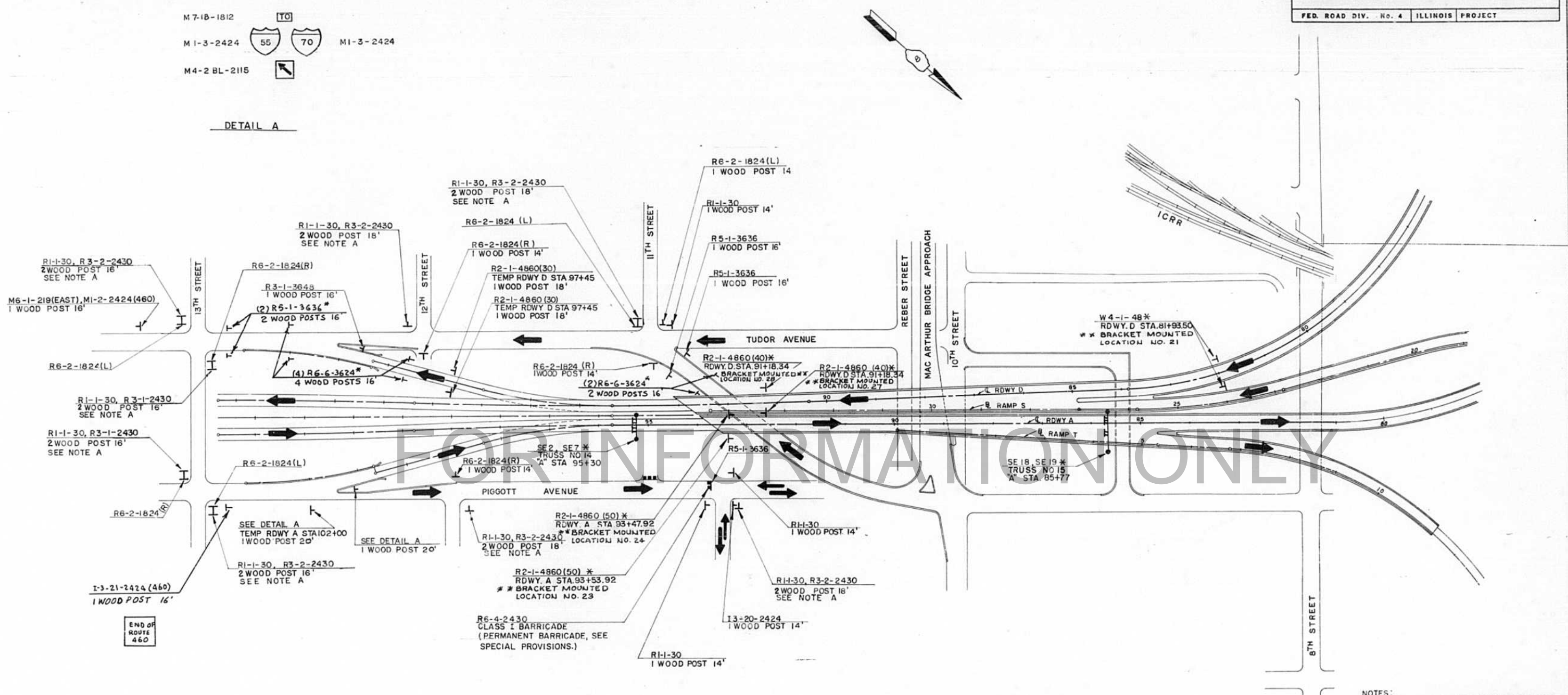
LOCATION & DETAILS FOR UNDERPASS LUMINAIRES

NOT TO SCALE

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

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
FAI 70	82-3HVB-3	ST. CLAIR	262	39

FED. ROAD DIV. No. 4 ILLINOIS PROJECT



* * For Bracket Mounting Details see Sheet No. 176.

NOTES:

A. WHEN ONE OR MORE SIGNS ARE USED WITH A STOP SIGN (R1-30), THEY SHALL BE PLACED BESIDE THE STOP SIGN ON A SEPARATE POST.

B. THE DESIGNATION (R) OR (L) AFTER STANDARD SIGN R6-2-1824 SHALL DENOTE THE DIRECTION OF THE ARROW.

C. ASTERISK (*) INDICATES FEDERAL PARTICIPATION.

WOOD POSTS - 6"	
NUMBER	LENGTH
8	14'
21	16'
12	18'
2	20'

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

SIGNING PLAN

00 0 100 200
scale feet

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

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB-7	ST. CLAIR	262	40
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		

SE 7

TRUSS NO.14

SE 2

TRUSS NO.14

SE 18

TRUSS NO.15

SE 19

TRUSS NO.15

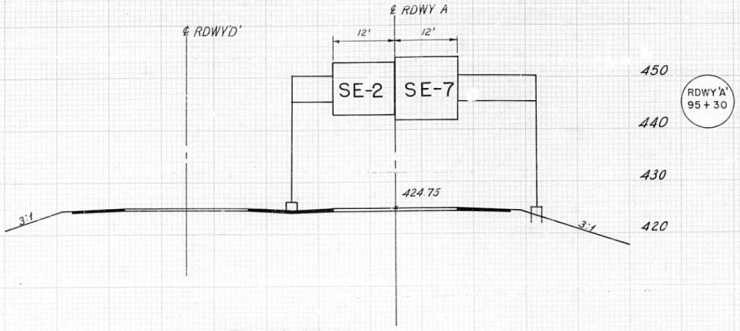
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

SPECIAL SIGNS

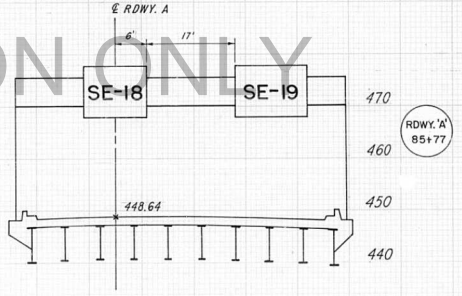
SE-2, SE-7, SE-18 AND SE-19

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

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB-3	ST CLAIR	262	41
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		



TRUSS NO 14



TRUSS NO. 15

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

LOCATION OF SIGNS ON TRUSS NO. 14 & 15

SCALE: 1"=10' VERT.
1"=10' HORIZ.

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

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB-3	ST. CLAIR	262	42
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		

QUANTITIES FOR SPECIAL SIGNS

	Dimension	LOCATION	LOWER CASE LETTERS 18	15	12	10	CAPITAL LETTERS & NUMBERS 16	13½	12	ARROW SYMBOLS 32×22	35½×27½	ROUTE MARKERS M1-30(12)	36-36	BORDER 3"	2"	SIGN PANEL REFLECTORIZED
			Each	Each	Each	Each	Each	Each	Each	Each	Each	Each		Lin.Ft.	Lin.Ft.	Square Feet
SE 2	12'-0" x 10'-0"	TRUSS 14			5		2			1		2			42.7	120
SE 7	12'-0" x 12'-0"				13		2			1		2			46.7	144
SE 18	12'-0" x 10'-0"	TRUSS 15			5		2			2		2			42.7	120
SE 19	14'-0" x 10'-0"				13		2				1	2			46.7	180
		TOTALS			36		8			4	1	8			178.8	524

GENERAL NOTES

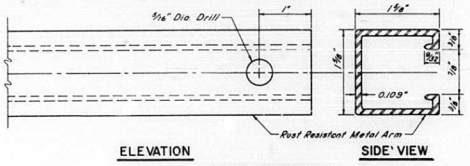
1. A wind pressure of 30 lbs./sq. ft. shall be used in determining the maximum spacing of the horizontal girts for sign mounting (See Standard 2151-9)
2. Wherever in these plans reference is made to the "Standard Specifications", it is understood to include the "Supplemental Specifications," effective January 3, 1966 and the supplemental Specifications for Highway Signing," effective March 1, 1963
4. The demountable letter used in the make-up of the Special Signs should be series E of the Standard Alphabets for Highway Signs modified by widening the stroke width of the upper case letter to approximately one fifth the capital letter or numeral height.
5. All Signs included in this contract shall be reflectorized.
6. The minimum dimensions from the edge of a Standard Arrow Symbol to the inside edge of the border shown are Standard 2140-3 shall be considered Standard unless otherwise specified.
7. Any Standard Signs indicated on the plans but not shown on the accompanying Standards, may be found in the State of Illinois Manual of Uniform Traffic Control Devices for Streets and Highways.
8. Sign panels shall be installed in accordance with Article H.S. 4.3 of the Supplemental Specifications.
9. The high point of the pavement at each location for Overhead Truss Signs shall be determined and this point shall be used as Elevation "A" for the Bench Mark in staking Truss foundations.
10. All standard signs shall be made of metal.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS
SPECIAL SIGN QUANTITIES

GENERAL NOTES

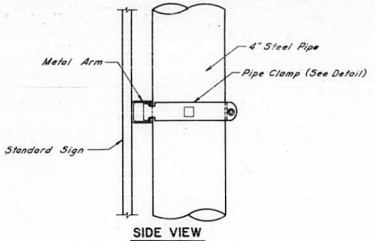
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILL.

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB-3	ST. CLAIR	202	43
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		

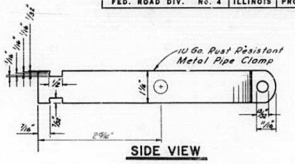


ELEVATION SIDE VIEW

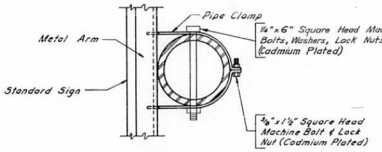
METAL ARM DETAIL
FULL SCALE



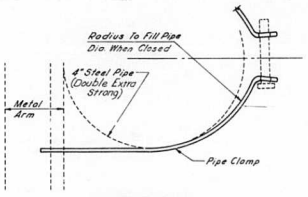
SIDE VIEW



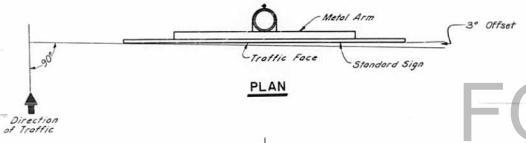
SIDE VIEW



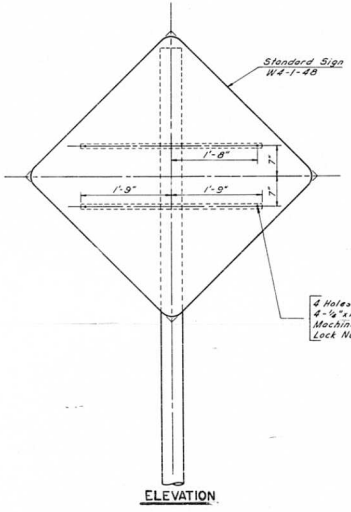
PLAN
CLAMP DETAIL
SCALE: 11/4"=1'-0"



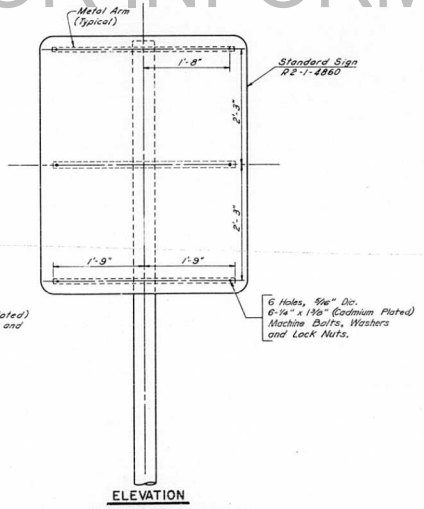
PIPE CLAMP
SCALE: 1"=2"



PLAN



ELEVATION



ELEVATION

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

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

For lengths of 4" Steel Pipe & Bracket Details See Bridge Plans.

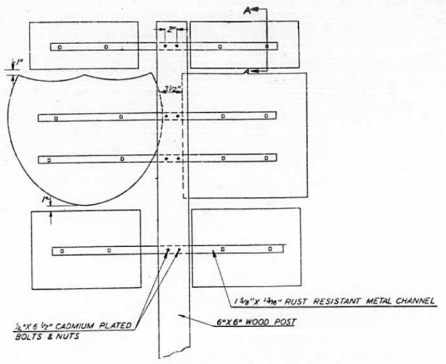
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

SIGN MOUNTING DETAILS

SCALE AS NOTED

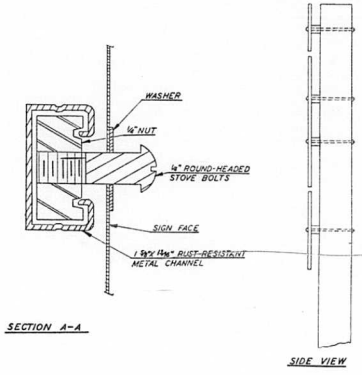
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILL.

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB-3	ST. CLAIR	262	44
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		



REAR VIEW

NOTE: ALL MATERIAL USED IN THIS TYPE INSTALLATION SHALL HAVE THE APPROVAL OF THE ENGINEER. THE SPACING OF THE METAL CHANNELS AND SIGN MOUNTING HOLES MUST MEET WITH THE APPROVAL OF THE ENGINEER.



SECTION A-A

SIDE VIEW

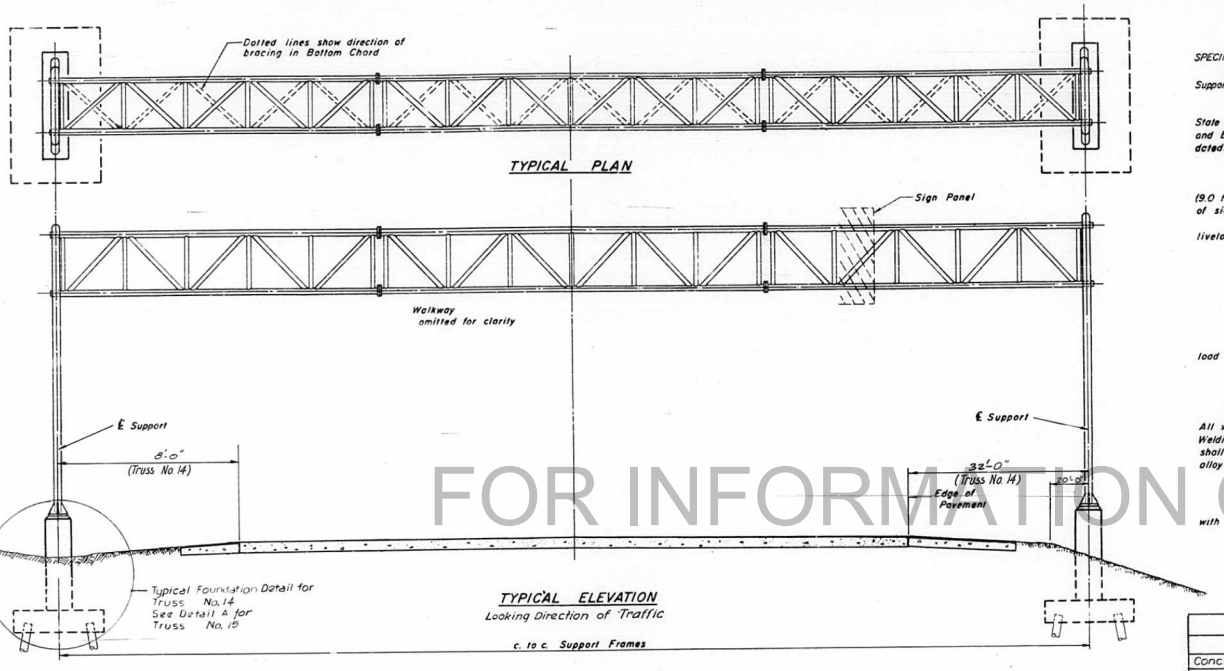
TYPICAL DETAIL OF
ROUTE MARKER ASSEMBLY

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

TYPICAL DETAIL OF
ROUTE MARKER ASSEMBLY

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

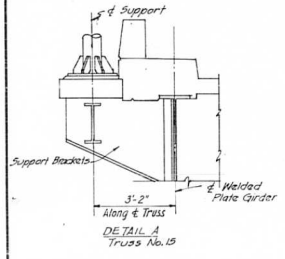
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82-3HVB-3	ST. CLAIR	262	45
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



TYPICAL PLAN

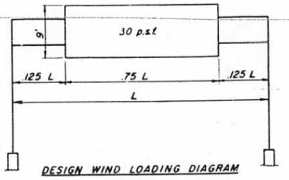
TYPICAL ELEVATION
Looking Direction of Traffic
c. to c. Support Frames

Elev. A = Elev. High Point of Roadway.



DETAIL A
Truss No. 15

TRUSS NO.	STATION	C. to C. SUPPONT	ELEV. A
14	95+30.00 ℄ Rdwy "A"	64'-0"	424.75
15	85+77.00 ℄ Rdwy "A"	63'-6⅝"	448.64



DESIGN WIND LOADING DIAGRAM

GENERAL NOTES

SPECIFICATIONS:

DESIGN: AASHO Specifications for the Design and Construction of Structural Supports for Highway Signs, dated November, 1960.

CONSTRUCTION: Standard Specifications for Road and Bridge Construction, State of Illinois, dated January 2, 1958, Supplemental Specifications for Road and Bridge Construction, Supplemental Specifications for Highway Signing dated March 1, 1963 and Special Provisions.

LOADING:

WIND LOADING: 30 p.s.f. normal to Sign Panel Area (9.0 ft. Sign Height x 75 % Design Span) plus 7.5 p.s.f. normal to remainder of sign truss area.

WALKWAY LOADING: Dead Load + 500 # concentrated liveload

UNIT STRESSES:

Structural Steel - 18,000 p.s.i.
Reinforcing Steel - 20,000 p.s.i
Class X Concrete - 1,400 p.s.i.

Structural Aluminum - per AASHO Specifications for Highway Signs, Nov 1960.

Allowable unit stresses due to wind load in combination with other forces, are increased 1.45.

MINIMUM CLEARANCE: Vertical Roadway Clearance = 17'-3" (All Obstructions)

SIGN TRUSS UNITS shall be all welded construction.

WELDING: All welding to be continuous unless otherwise shown. All welding to be made in accordance with current AWS Specifications. Welding on ASTM A-36 Plates and Shapes or ASTM A-53 Grade B Pipe or Tube shall conform to ASTM 233 using E6010, 11 or 27 electrodes. Aluminum alloy filler wire for welding aluminum shall conform to ASTM B-285 ER 5356.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A-53 Grade B with a minimum yield of 35,000 p.s.i.

All cross-reference sheet numbers shown on plans are the numbers located in the lower right hand corner.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Foundations	Cu. Yd.	26.9
Overhead Sign Walkway (Aluminum)	Lin. Ft.	79.0
Overhead Sign Structure Type II-A (4'-6" x 5'-3")	Lin. Ft.	63.6
Overhead Sign Structure Type III - A (4'-6"x6'-0")	Lin. Ft.	64'-0"
Furnishing Creosoted Piles up 20'	Lin. Ft.	240.0
Driving Timber Piles	Lin. Ft.	240.0

DESIGNED BY P.K.
DRAWN BY
CHECKED BY P.K.
APPROVED BY K.A.

ALTERNATE "A"

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

GENERAL PLAN AND ELEVATION ALUMINUM TRUSS AND STEEL SUPPORTS

F.A.I. ROUTE 70
OVERHEAD SIGN STRUCTURES

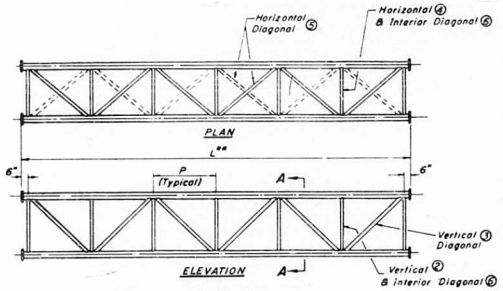
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-3

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

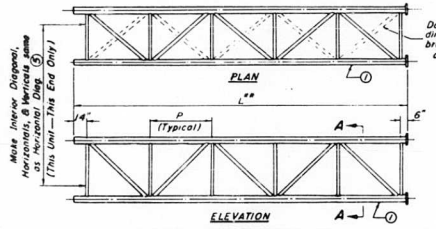
SHEET 1 OF 13

cem 7-25-67 Rev. Dimensions on Typical & Bill of Matl. Schedule.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I-70	82-3HVB-3	ST CLAIR	262	46
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

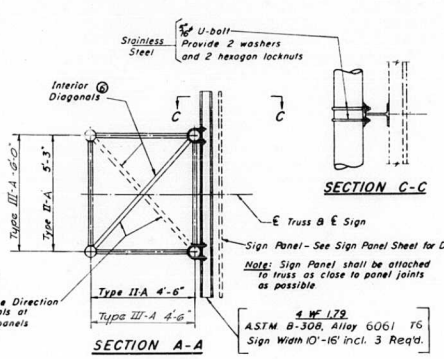


TYPICAL INTERIOR UNIT



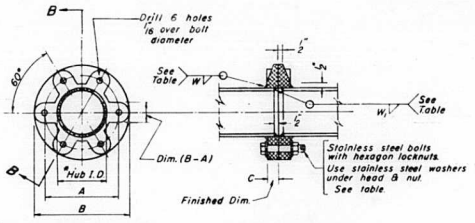
TYPICAL END UNIT

**Dimension "L" of top chord of truss unit shall be increased ⅛ per 20'-0" of truss and bottom chord shall be decreased ⅛ per 20'-0" of truss unit



SECTION A-A

SECTION C-C

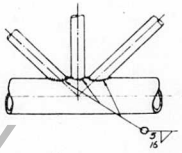


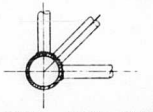
SPLICING FLANGE
A.S.T.M. B-26, Alloy SG-70A Temper T6
or
A.S.T.M. B-247 Alloy 6061 Temper T6
* To fit O.D. of Chord

SECTION B-B
Note: Flanges shall be given additional finish if necessary to insure full contact between plates.

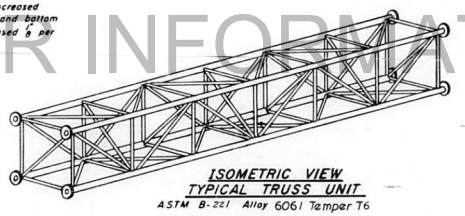
SPLICING FLANGE TABLE

Truss Number	Bolts No.	Bolts Size	W	W1	A	B	C
14	48	¾"	¼"	3/16"	8½"	11½"	1½"
15	48	¾"	¼"	3/16"	8½"	11½"	1½"

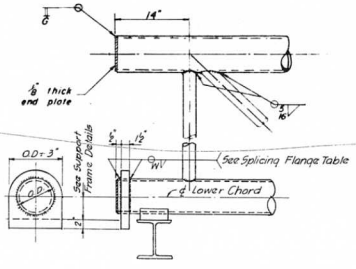




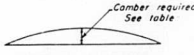
TYPICAL JOINT DETAILS
Note: All members shall fit snugly before welding



ISOMETRIC VIEW
TYPICAL TRUSS UNIT
A.S.T.M. B-221 Alloy 6061 Temper T6



END DETAIL for END UNIT



CAMBER DIAGRAM

TRUSS UNIT TABLE

Truss Number	Station	Truss Type	End Units (2) No. Panels per Unit	End Units (2) Unit Lgth (L)	End Units (2) Panel Lgth (P)	Interior Unit No. Req'd	Interior Unit No. Panels per Unit	Interior Unit Unit Lgth (L)	Interior Unit Panel Lgth (P)	Top & Btm Chord ① O.D.	Top & Btm Chord ① Wall	Vertical ② O.D.	Vertical ② Wall	Vertical Diag ③ O.D.	Vertical Diag ③ Wall	Horizontal ④ O.D.	Horizontal ④ Wall	Horizontal Diag ⑤ O.D.	Horizontal Diag ⑤ Wall	Interior Diag ⑥ O.D.	Interior Diag ⑥ Wall	Camber at ℄
14	95+30.00 ± Rdwy A	III-A	4	22'-0"	5'-1"	1	4	21'-9"	5'-1"	4½"	3/16"	2"	3/16"	2½"	3/16"	2"	3/16"	2½"	3/16"	2½"	3/16"	3/8"
15	85+77.00 ± Rdwy A	II-A	4	21'-10"	5'-0½"	1	4	21'-3"	5'-0½"	4½"	3/16"	1¾"	3/16"	2½"	3/16"	1¾"	3/16"	2½"	3/16"	2¼"	5/16"	1½"

ALTERNATE "A"

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

ALUMINUM TRUSS DETAILS

F.A.I. ROUTE 70
OVERHEAD SIGN STRUCTURES

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

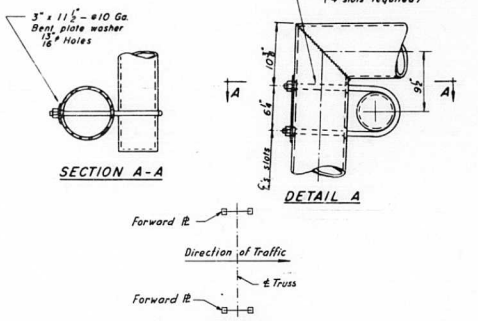
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

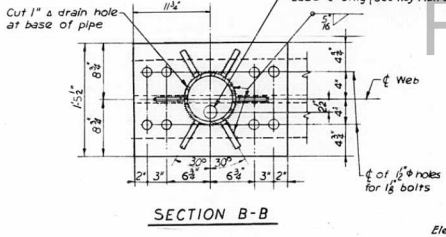
SHEET 2 OF 13

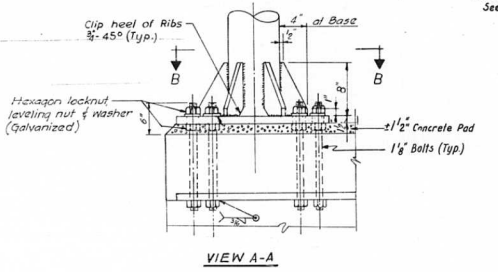
DESIGNED BY P.K.
DRAWN BY V.T.
CHECKED BY P.K.
APPROVED BY K.A.

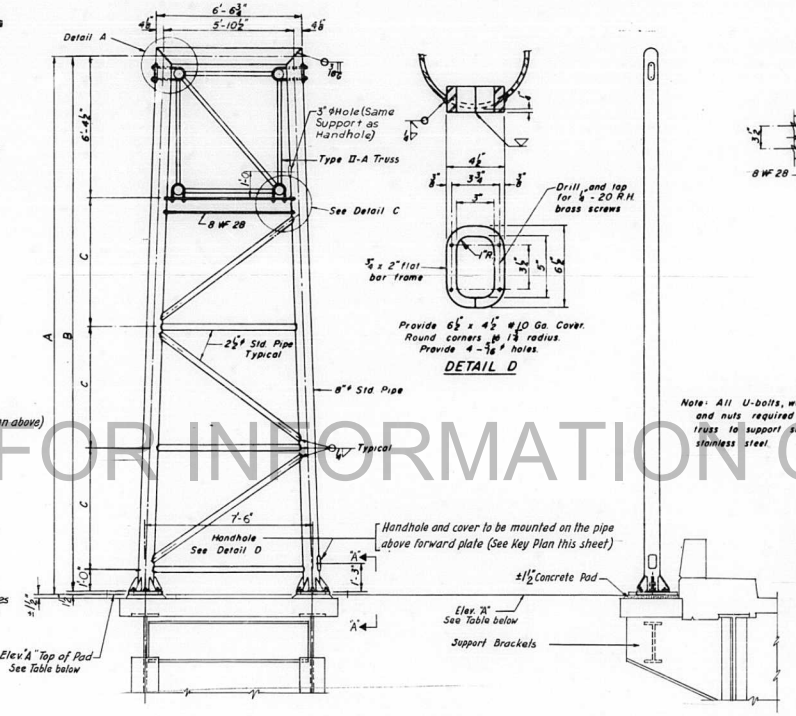
CEM 7-25-67 REV. TRUSS UNIT TABLE

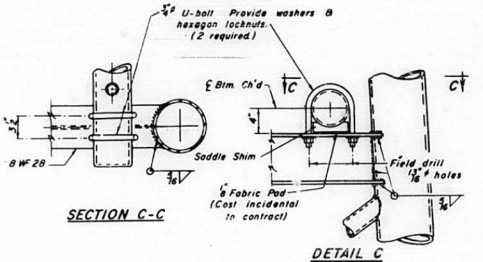
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	47
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

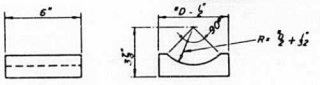












SADDLE SHIM DETAIL

ASTM B-26 Alloy SG-70A (As Cast) or ASTM B-209 Alloy 6061-T6

4 required per sign truss.

"D" = Outside Diameter of Chord

Note: All U-bolts, washers and nuts required to attach truss to support shall be stainless steel.

TRUSS No.	STATION	DIMENSION	LEFT SIDE	RIGHT SIDE
15	85+77.00 ℄ Rdwy "A"	A	27'-0"	27'-6"
		B	26'-10½"	27'-4½"
		C	6'-6"	6'-8"

Left Side / Right Side → Direction of Traffic

ELEVATION "A"

TRUSS No.	Left Side	Right Side
15	448.56	448.06

TRUSS SUPPORT DETAILS
(8" Std. Pipe - Type II-A

Wall Thickness 0.277"

ALTERNATE "A"

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

SUPPORT FRAME FOR ALUMINUM TRUSS
TYPE II-A
F.A.I. ROUTE 70
OVERHEAD SIGN STRUCTURES
TRUSS No. 15
F.A.I RT. 70 ST. CLAIR CO. SECTION 82-3HVB-3

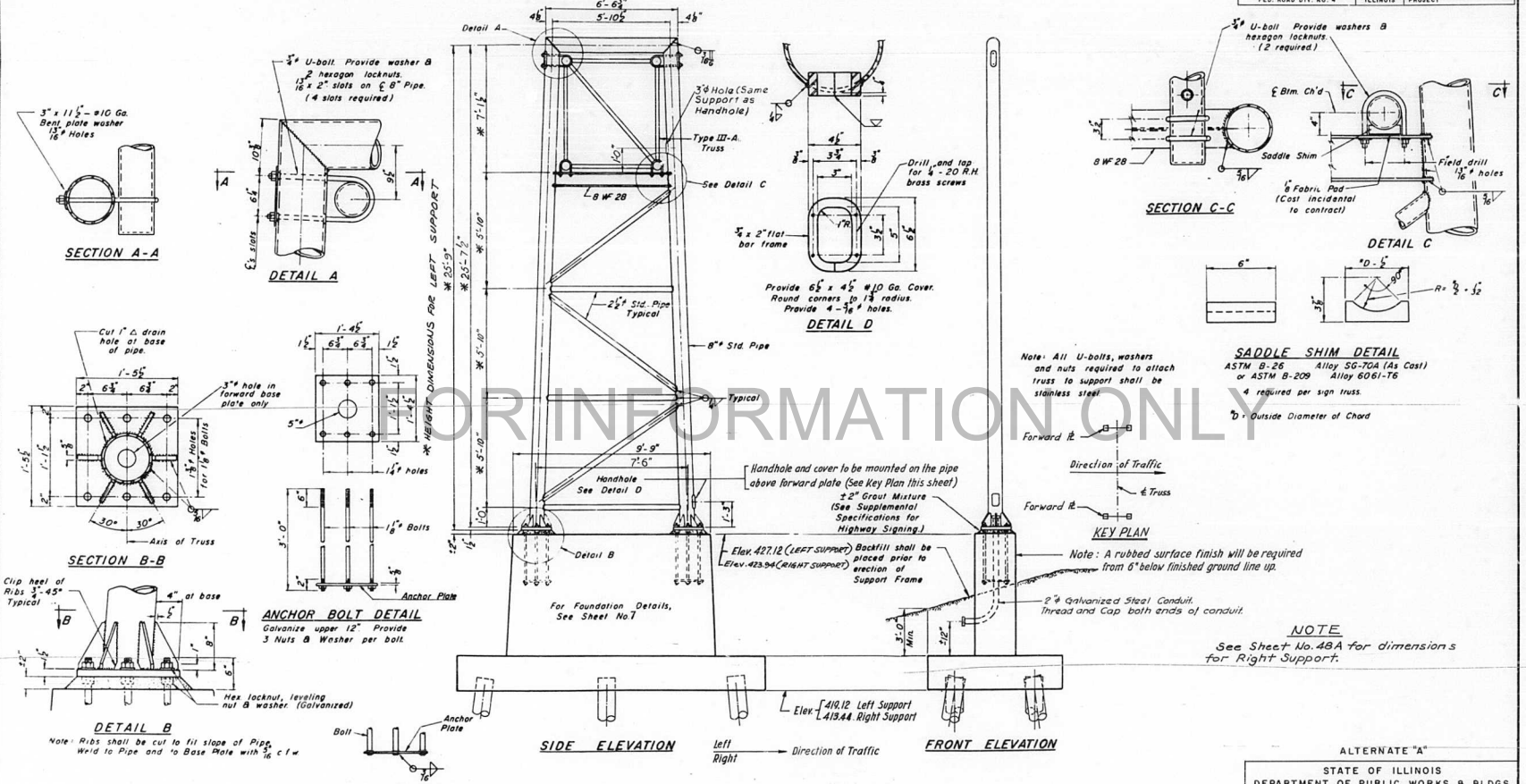
H. W. LOCHNER, INC. ENGINEERS
CHICAGO, ILLINOIS

SHEET 3 of 13

DESIGNED BY P.K.
DRAWN BY VF
CHECKED BY P.K.
APPROVED BY K.A.

Note: Ribs shall be cut to fit Slope of Pipe. Weld to Pipe and to Base Plate with 5/16" c.f.w.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F. A. I.–70	82-3HVB-3	ST. CLAIR	262	48
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



NOTE

See Sheet No. 48A for dimensions for Right Support.

TRUSS SUPPORT DETAILS
(8" Std. Pipe – Type III-A TRUSS

Wall Thickness 0.277"

ALTERNATE "A"

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
SUPPORT FRAME FOR ALUMINUM TRUSS
TYPE III-A
F.A.I. ROUTE 70
OVERHEAD SIGN STRUCTURES
TRUSS No. 14

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

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

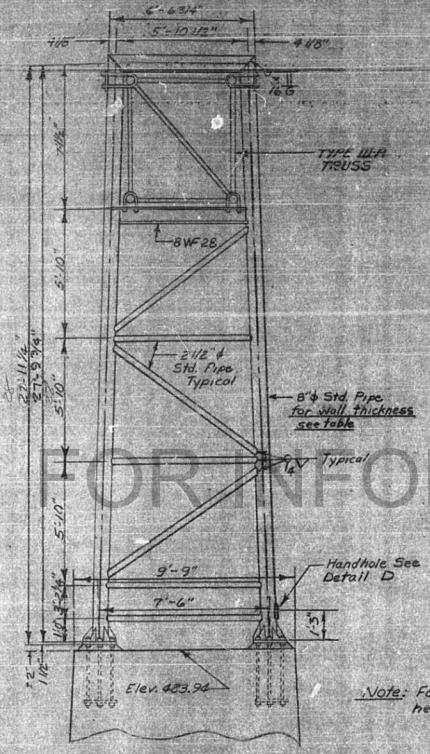
SHEET 4 OF 13

DESIGNED BY P.K.
DRAWN BY
CHECKED BY P.K.
APPROVED BY K.A.

cem 7-25-67 Added data for Lt. & Rt. Support.

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 70	82-3HVB	St Clair	262	43A

FED. ROAD DIST. NO. 7 | ILLINOIS | PROJECT

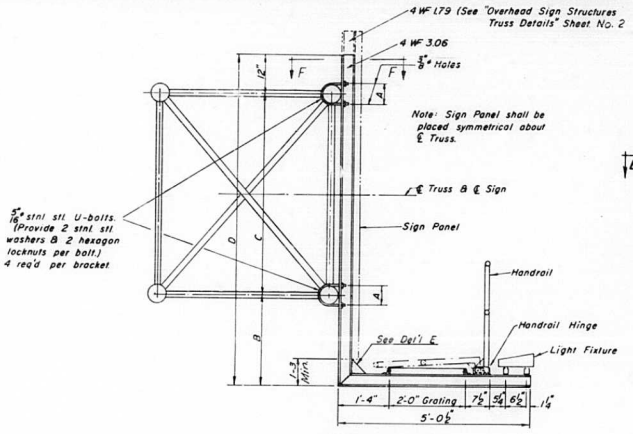


Note: For all details not shown here see sheet 48

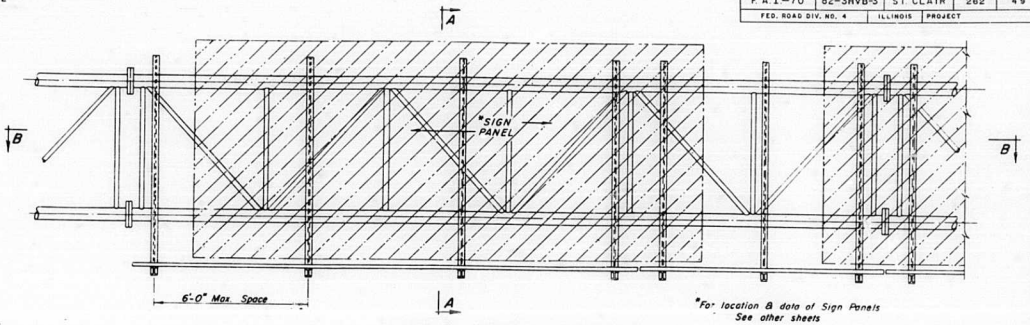
TRUSS 14
RIGHT SUPPORT FRAME ONLY

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
SUPPORT FRAME FOR ALUMINUM TRUSS
TYPE III-A
F.A.I. ROUTE 70
OVERHEAD SIGN STRUCTURES
TRUSS NO. 14
F.A.I. RT. 70 ST. CLAIR COUNTY
SECTION 82-3HVB-3

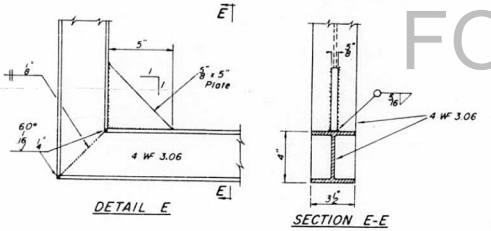
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82-3HVB-3	ST. CLAIR	262	49
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



SECTION A-A



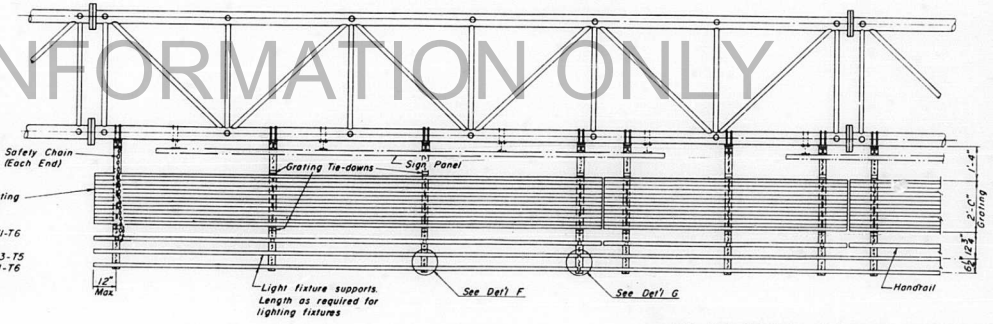
TYPICAL FRONT ELEVATION
(With Lights & Handrail omitted for clarity)



DETAIL E

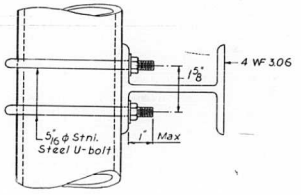
SECTION E-E

BRACKET DETAILS



SECTION B-B

Note: Handrail & Grating shall span a minimum of three brackets
Place all sign and walkway brackets as close to panel points as possible.
For Details 'F' and 'G' see Sheet No. 6.



SECTION F-F

TRUSS NUMBER	STATION	A	B	C	D
14	25+30.00 ℄ Rdwy "A"	3 7/16"	4'-3"	6'-0"	11'-3"
15	85+77.00 ℄ Rdwy "A"	3 7/16"	3'-7 5/8"	5'-3"	9'-10 1/2"

ALTERNATE "A"

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

ALUMINUM WALKWAY DETAILS

F.A.I. ROUTE 70
OVERHEAD SIGN STRUCTURES

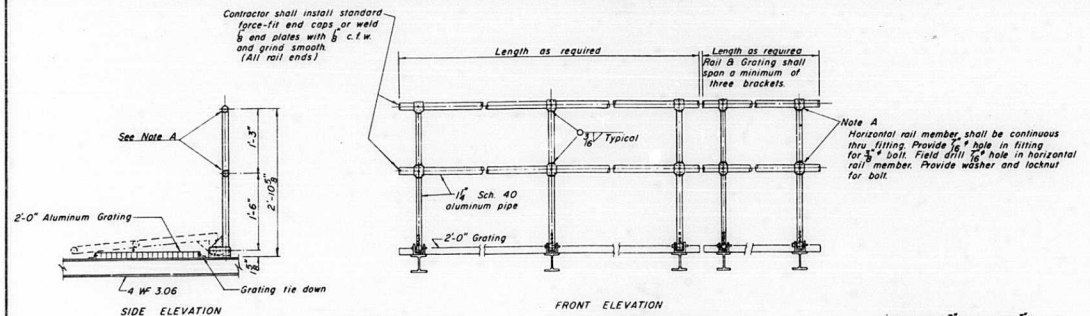
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-3

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

SHEET 5 OF 13

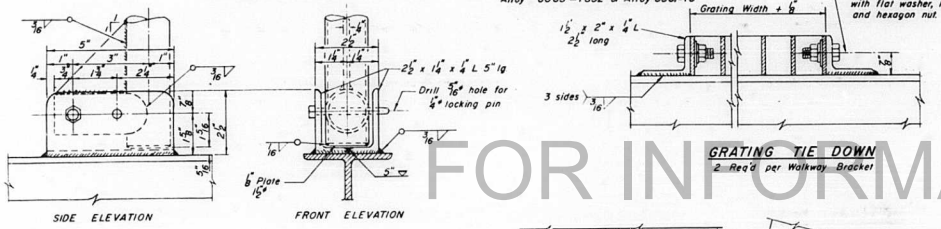
DESIGNED BY P.K.
DRAWN BY L.Z.
CHECKED BY P.K.
APPROVED BY K.A.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	50
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

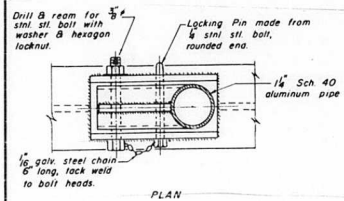


TYPICAL HANDRAIL DETAIL

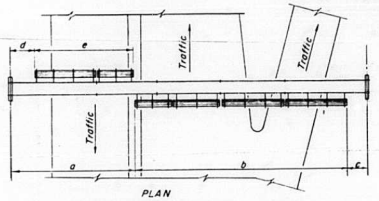
Note: Handrail Pipe shall be ASTM B241 Alloy 6063-T832 or Alloy 6061-T6



GRATING TIE DOWN
2 Req'd per Walkway Bracket

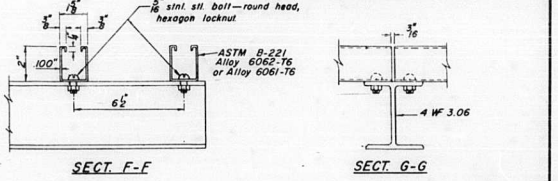


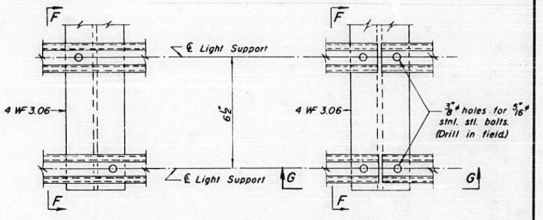
DETAILS OF HANDRAIL HINGE



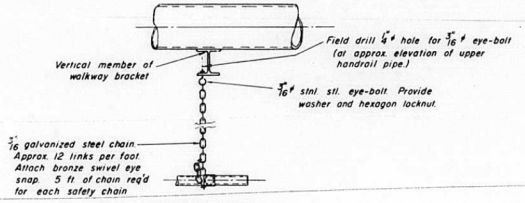
WALKWAY AND HANDRAIL SKETCH
Note: Road Plan shown beneath truss just typical.

Truss Number	Station	a	b	c	d	e	Grating & Handrail Lengths
14	85+30.00 ℄ Rdwy "A"	–	30'-0"	26'-0"	–	–	30'-0"
15	85+77.00 ℄ Rdwy "A"	–	49'-0"	2'-0"	–	–	49'-0"





LIGHTING FIXTURE MOUNTS



SAFETY CHAIN
One (1) required for each end of each walkway.

ALTERNATE "A"

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

ALUMINUM WALKWAY DETAILS

F.A.I. ROUTE 70
OVERHEAD SIGN STRUCTURES

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

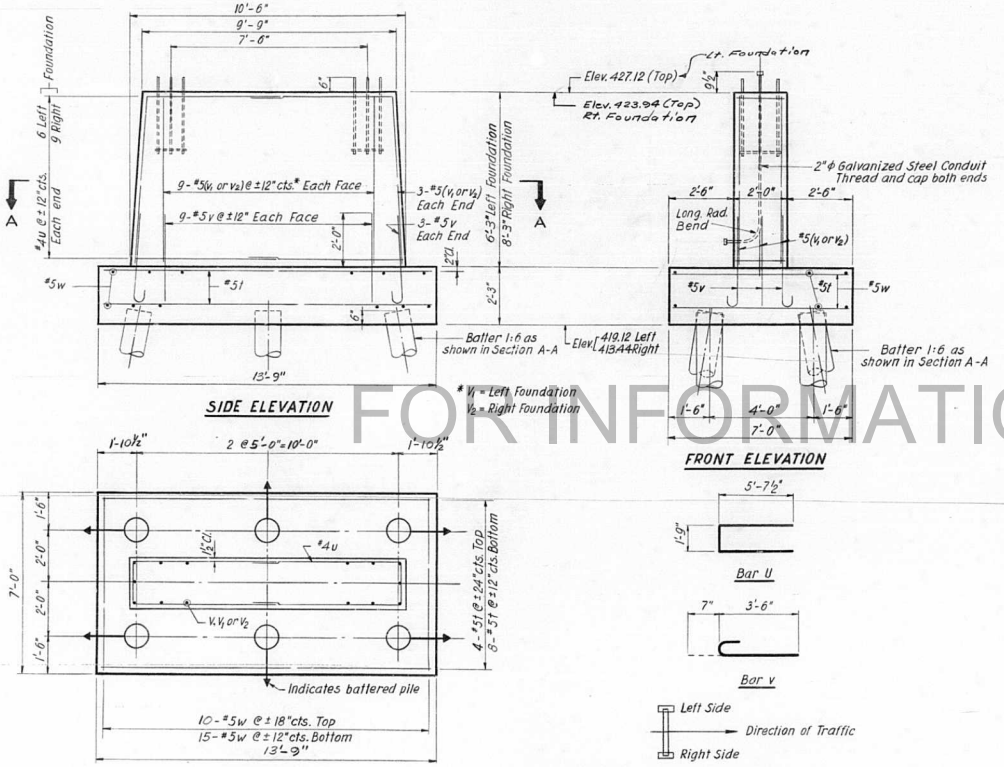
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 6 OF 13

DESIGNED BY PK.
DRAWN BY [illegible]
CHECKED BY PK
APPROVED BY K.A.

cem 7-28-67 Revise dimension on truss No. 14

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.–70	82-3HVB-3	ST. CLAIR	262	51
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



SIDE ELEVATION

* V1 = Left Foundation
V2 = Right Foundation

FRONT ELEVATION

SECTION A-A

PILE DATA

Type	:	Creosoted Timber Piles
Capacity	:	13 Tons
Estimated Length	:	20 Ft

BAR LIST

BAR	No	SIZE	LENGTH	SHAPE
t	24	#5	13'-3"	
v	48	#5	4'-1"	
V_1	24	#5	6'-0"	
V_2	24	#5	8'-0"	
U	30	#4	13'-0"	
W	50	#5	6'-9"	
Concrete Foundations				26.9 Cu. Yds.
Creosoted Timber Piles				240 Lin. Ft.

DESIGNED BY P.V.
DRAWN BY L.S.
CHECKED BY P.V.
APPROVED BY K.A.

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

FOUNDATION DETAILS FOR TRUSS No. 14

F.A.I. ROUTE 70
OVERHEAD SIGN STRUCTURES

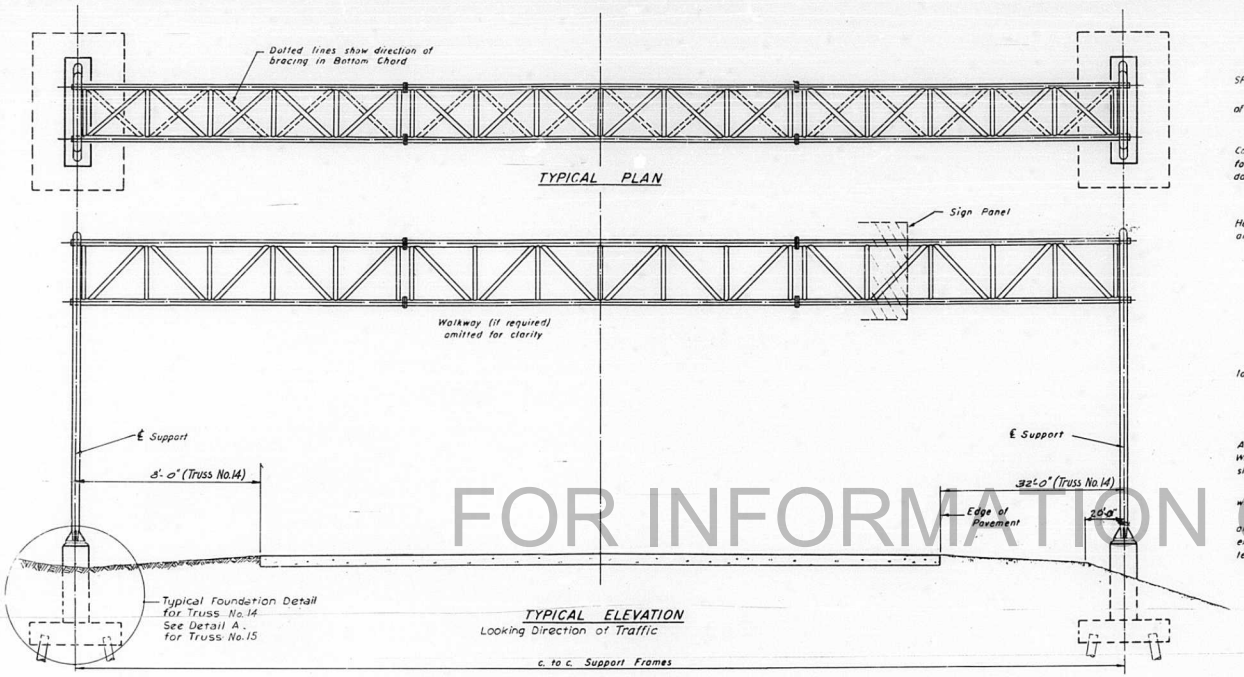
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-3

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

SHEET 7 OF 1[illegible]

cem 7-25-67 Rev. Dimensions & Bar List

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. – 70	82-3HVB-3	ST. CLAIR	262	52
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



GENERAL NOTES

SPECIFICATIONS:

DESIGN: AASHO Specifications for the Design and Construction of Structural Supports for Highway Signs, dated November, 1960

CONSTRUCTION: Standard Specifications for Road and Bridge Construction, State of Illinois, dated January 2, 1958 Supplemental Specifications for Road and Bridge Construction, Supplemental Specifications for Highway Signing dated March 1, 1963 and Special Provisions.

LOADING:

WIND LOADING: 30 p.s.f. normal to Sign Panel Area (90 ft Sign Height x 75% Design Span) plus 7.5 p.s.f. normal to remainder of sign truss area

WALKWAY LOADING: Dead Load + 500# concentrated liveload

UNIT STRESSES:

Structural Steel - per AASHO Specifications for Highway Signs, dated November, 1960
Reinforcing Steel - 20,000 p.s.i.
Class X Concrete - 1,400 p.s.i.

Allowable unit stresses due to wind, or wind load in combination with other forces, are increased 1/4.

MINIMUM CLEARANCE: Vertical Roadway Clearance = 17'-3" (All Obstructions)

SIGN TRUSS UNITS shall be all welded construction.

WELDING: All welding to be continuous unless otherwise shown. All welding to be made in accordance with current AWS Specifications. Welding on ASTM A-36 Plates and Shapes, or ASTM A-53 Grade B Pipe or Tube shall conform to ASTM 233 using E6010,11 or 27 electrodes.

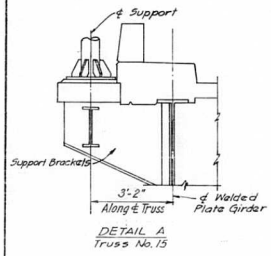
MATERIALS: All Structural Steel Pipe shall be ASTM A-53 Grade B with a minimum yield of 35,000 p.s.i.

All Structural Steel Tube shall be new prime product and shall conform to the applicable requirements of ASTM A-53, Grade B, except for size as indicated in Tables IV & V of Appendix I and hydrostatic test, and shall have a minimum yield of 35,000 p.s.i.

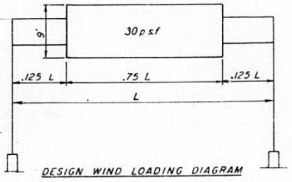
TOTAL BILL OF MATERIAL		
Item	Unit	Total
Concrete Foundations	Cu.Yd.	26.9
Overhead Sign Walkway (Steel)	Lin. Ft.	79.0
Overhead Sign Struct. Type II-S(4'-4"-5'-3")	Lin. Ft.	63.6
Overhead Sign Struct. Type III-S(4'-6"-6'-8")	Lin. Ft.	64'-6"
Furnishing Creos. Piles up 20'	Lin. Ft.	240.0
Driving Timber Piles	Lin. Ft.	240.0

Elev. A = Elev. High Point of Roadway

Truss No.	Station	C. to C. Support	Elev. A
#14	95+30.00 ℄ Rdwy "A"	64'-0"	424.75
#15	85+77.00 ℄ Rdwy "A"	63'-6 11/16"	448.64



DETAIL A
Truss No.15



DESIGN WIND LOADING DIAGRAM

DESIGNED BY P.K.
DRAWN BY V.F.
CHECKED BY P.K.
APPROVED BY K.A.

ALTERNATE "B"

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

GENERAL PLAN AND ELEVATION STEEL TRUSS AND STEEL SUPPORTS

F.A.I. ROUTE 70
OVERHEAD SIGN STRUCTURES

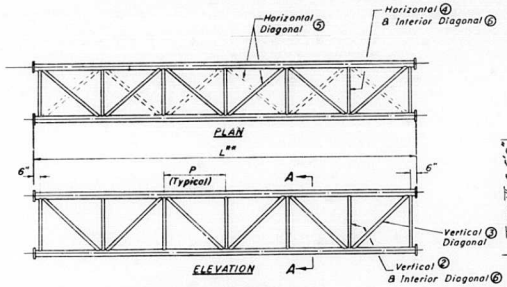
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-3

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

SHEET 8 OF 13

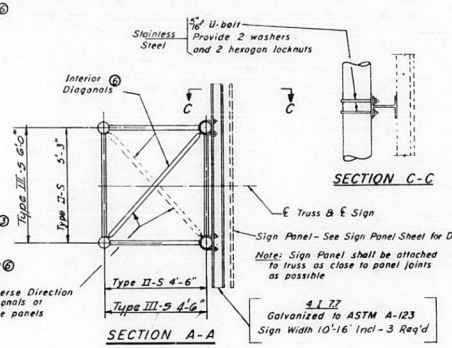
CBM 7-25-67 Rev. Dimensions "E" of Note to ℄ Support and Bill of Matl.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	53
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



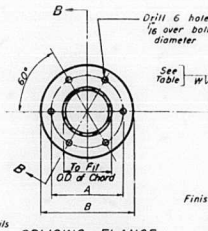
TYPICAL INTERIOR UNIT

Note: Reverse Direction of Diagonals at alternate panels

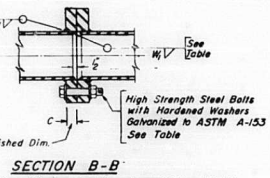


SECTION C-C

SECTION A-A

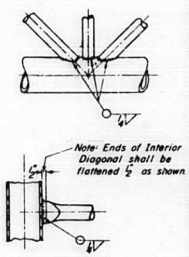


SPLICING FLANGE
ASTM A-36

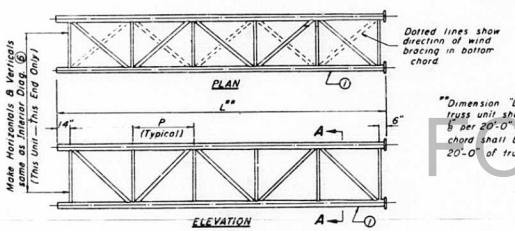


SECTION B-B

Note Flanges shall be given additional finish if necessary to insure full contact between plates.

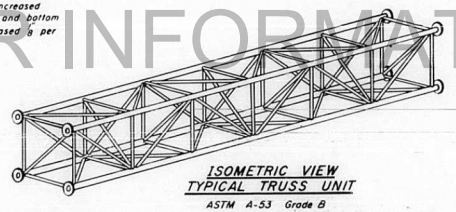


SEC. D-D



TYPICAL END UNIT

**Dimension "L" of top chord of truss unit shall be increased ⅛" per 20'-0" of truss and bottom chord shall be decreased ⅛" per 20'-0" of truss unit

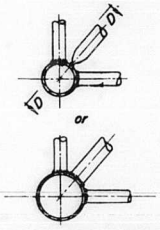


ISOMETRIC VIEW
TYPICAL TRUSS UNIT

ASTM A-53 Grade B

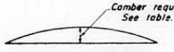
SPLICING FLANGE TABLE

Truss Number	Bolts No.	Bolts Size	W	W1	A	B	C
14	48	⅝"	1¼"	3/16"	6½"	9½"	11¼"
15	48	⅝"	1¼"	3/16"	6½"	9½"	11¼"

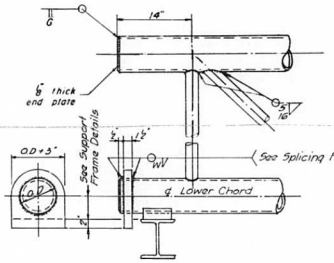


TYPICAL JOINT DETAILS

Note: All members shall fit snugly before welding.



CAMBER DIAGRAM



END DETAIL for END UNIT

The steel overhead sign trusses shall be hot-dipped galvanized after fabrication is completed in accordance with A.S.T.M. Designations A-123 and A-385. All closed or blind tubes or pipes of the trusses shall be vented with two one-half inch (2-½") holes located in such position that the tubes or pipes will not retain water after erection.

During shipment to and storage at the site the trusses shall be blocked and any portions which could be damaged shall be wrapped with tough, non-staining paper to preserve finish. The exposed surfaces of the trusses shall be of even texture, free from damage, marks, and imperfections.

Poor appearance or damage to the galvanizing surfaces of the trusses shall be sufficient cause for rejection. The cost of galvanizing the trusses shall be included in the contract unit price per lineal foot for OVERHEAD SIGN STRUCTURES.

TRUSS UNIT TABLE

Truss Number	Station	Truss Type	End Units (2) No. Panels per Unit	End Units (2) Unit Lgth (L)	End Units (2) Panel Lgth (P)	Interior Unit No. Reqd	Interior Unit No. Panels per Unit	Interior Unit Unit Lgth (L)	Interior Unit Panel Lgth (P)	Top & Btm Chord ① O.D.	Top & Btm Chord ① Wall	Vertical ② O.D.	Vertical ② Wall	Vertical Diag. ③ O.D.	Vertical Diag. ③ Wall	Horizontal ④ O.D.	Horizontal ④ Wall	Horizontal Diag. ⑤ O.D.	Horizontal Diag. ⑤ Wall	Interior Diag. ⑥ O.D.	Interior Diag. ⑥ Wall	Camber at ℄
14	95+30.00 ℄ Rdwy "A"	III-S	4	22'-0"	5'-1"	1	4	21'-6"	5'-1"	3½"	5/16"	2"	5/16"	2⅜"	5/16"	1½"	5/16"	2½"	5/16"	2"	5/16"	1⅝"
15	85+77.00 ℄ Rdwy "A"	II-S	4	21'-10"	5'-0½"	1	4	21'-3"	5'-0⅜"	3½"	5/16"	1¾"	5/16"	2⅜"	5/16"	1½"	5/16"	2¼"	5/16"	1⅞"	5/16"	1⅜"

ALTERNATE "B"

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

STEEL TRUSS DETAILS
F.A.I. ROUTE 70
OVERHEAD SIGN STRUCTURES

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

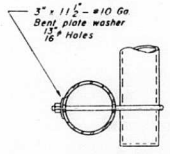
H.W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 9 OF 13

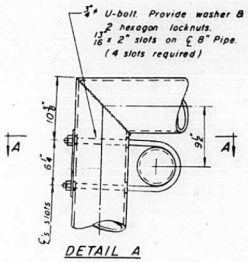
DESIGNED BY P.K.
DRAWN BY E.F.
CHECKED BY P.Y.
APPROVED BY K.A.

CEM 7-25-67 Rev. Dimensions in Truss Unit Table

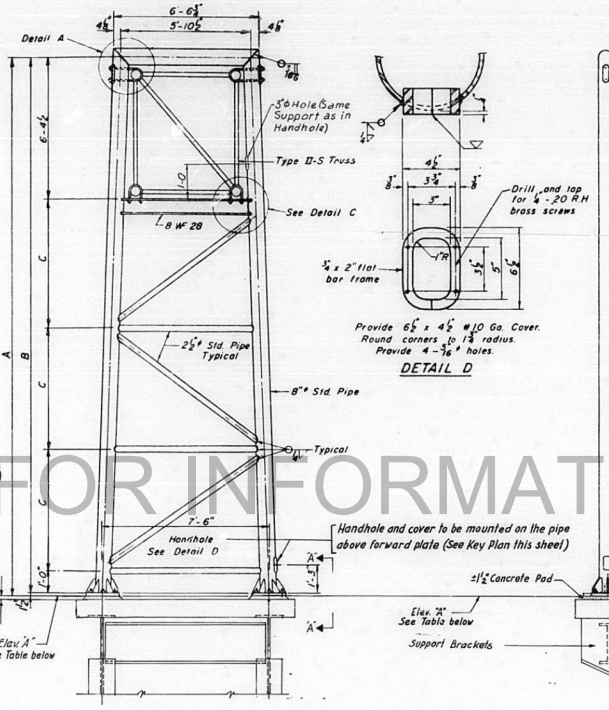
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	54
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



SECTION A-A

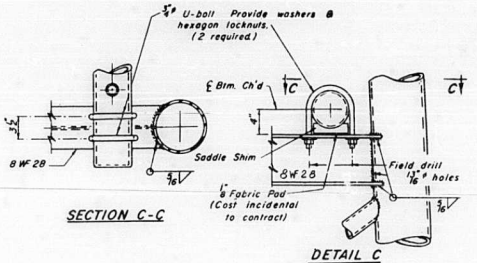


DETAIL A



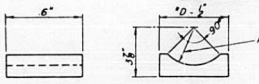
Provide 6½" x 4½" #10 Ga. Cover. Round corners to 1⅜" radius. Provide 4 - 9/16" ϕ holes.

DETAIL D



SECTION C-C

DETAIL C

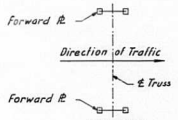


SADDLE SHIM DETAIL

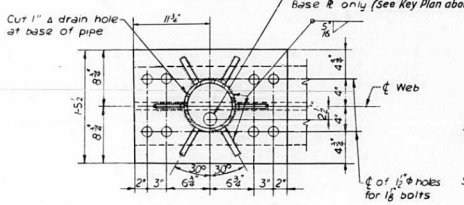
Malleable Iron Casting shall conform to Article 1006.15 of Std. Specs. 4 required per sign truss.

"D" = Outside Diameter of Chord

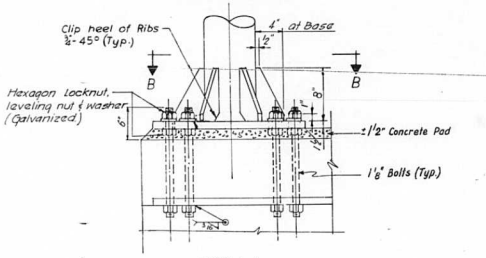
Note: All U-bolts, washers and nuts required to attach truss to support shall be stainless steel



KEY PLAN



SECTION B-B



VIEW A-A

Note: Ribs shall be cut to fit slope of Pipe. Weld to Pipe and to Base Plate with 5/16" c.f.w.

SIDE ELEVATION

FRONT ELEVATION

Left Side / Right Side → Direction of Traffic

ELEVATION "A"

TRUSS No.	Left Side	Right Side
15	448.56	448.06

TRUSS No.	STATION	DIMENSION	LEFT SIDE	RIGHT SIDE
15	83+7700 ℄ Rdwy "A"	A	27'-0"	27'-6"
		B	26'-10½"	27'-4½"
		C	6'-6"	6'-8"

TRUSS SUPPORT DETAILS

(18" Std. Pipe - Type II-S

Wall Thickness .0277"

ALTERNATE "B"

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

SUPPORT FRAME FOR STEEL TRUSS TYPE II-S

F.A.I. ROUTE 70
OVERHEAD SIGN STRUCTURES
TRUSS No. 15

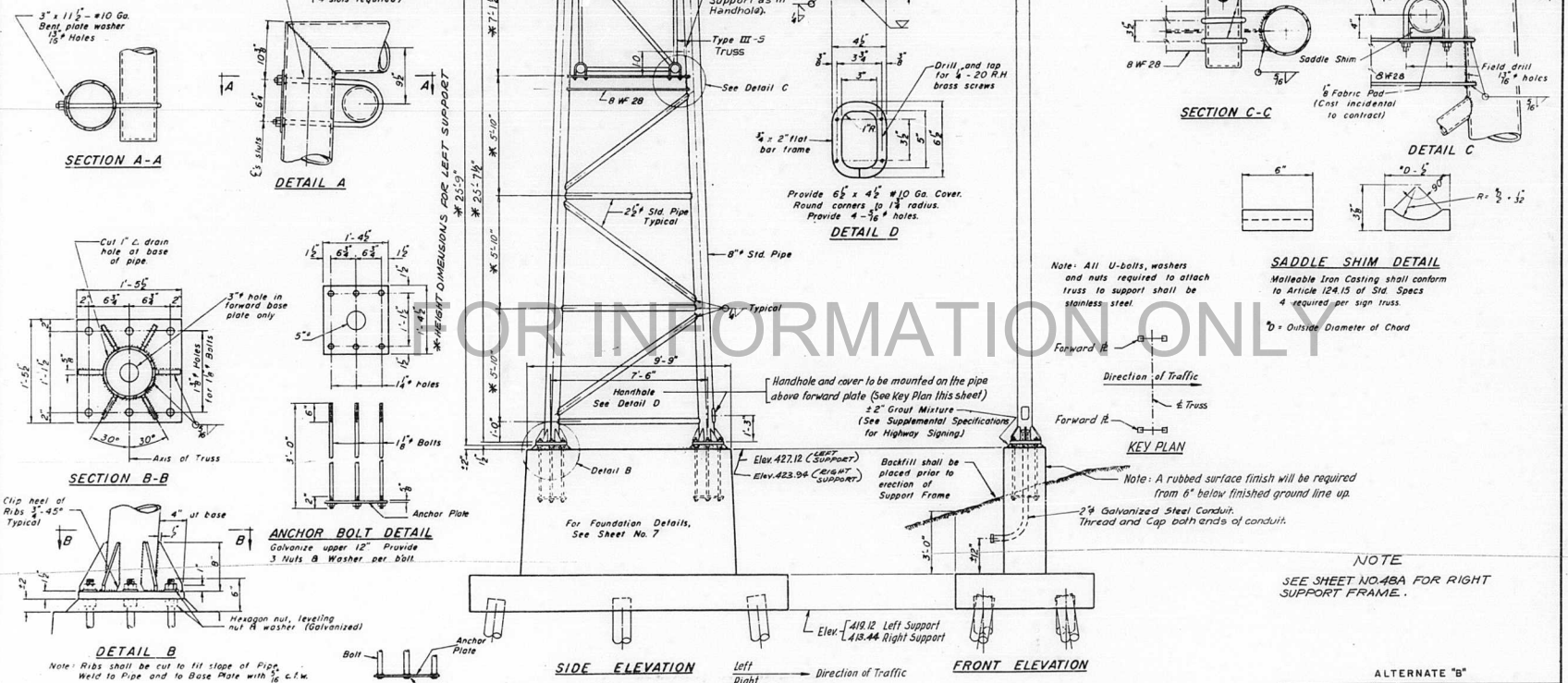
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-3

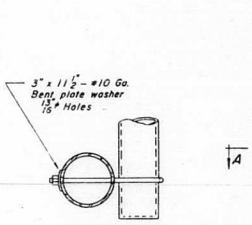
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 10 OF 13

DESIGNED BY RX
DRAWN BY VC
CHECKED BY RX
APPROVED BY K.A.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	55
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		





SECTION A-A

DETAIL A

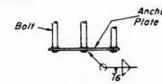
SECTION B-B

DETAIL B

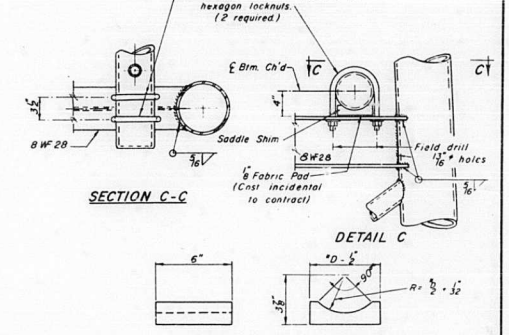
Note: Ribs shall be cut to fit slope of Pipe. Weld to Pipe and to Base Plate with ⅝" c.f.w.

ANCHOR BOLT DETAIL

Galvanize upper 12" Pruvide 3 Nuts & Washer per bolt.



Note: Anchor Plate may be attached as shown in above sketch.



SECTION C-C

DETAIL C

SADDLE SHIM DETAIL

Malleable Iron Casting shall conform to Article 1241.15 of Std. Specs 4 required per sign truss.

"D" = Outside Diameter of Chord

DETAIL D

Note: All U-bolts, washers and nuts required to attach truss to support shall be stainless steel.

KEY PLAN

NOTE

SEE SHEET NO.48A FOR RIGHT SUPPORT FRAME.

TRUSS SUPPORT DETAILS
(8" Std. Pipe - Type III-S TRUSS

WALL THICKNESS = 0.277"

ALTERNATE "B"

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

SUPPORT FRAME FOR STEEL TRUSS
TYPE III-S
F.A.I. ROUTE 70
OVERHEAD SIGN STRUCTURES
TRUSS No. 14

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

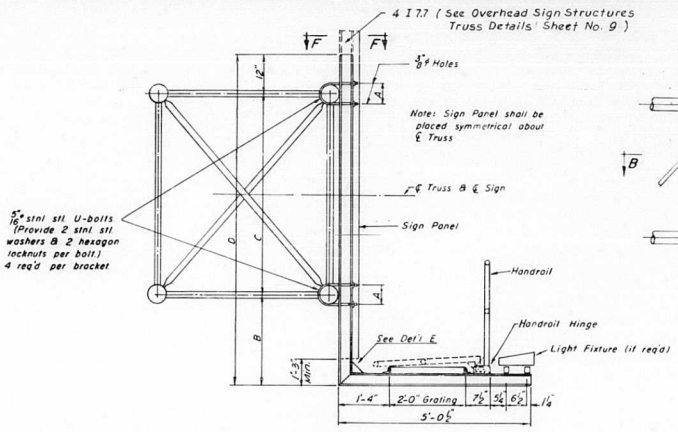
H. W. LOCHNER, INC
ENGINEERS
CHICAGO, ILLINOIS

SHEET 11 OF 13

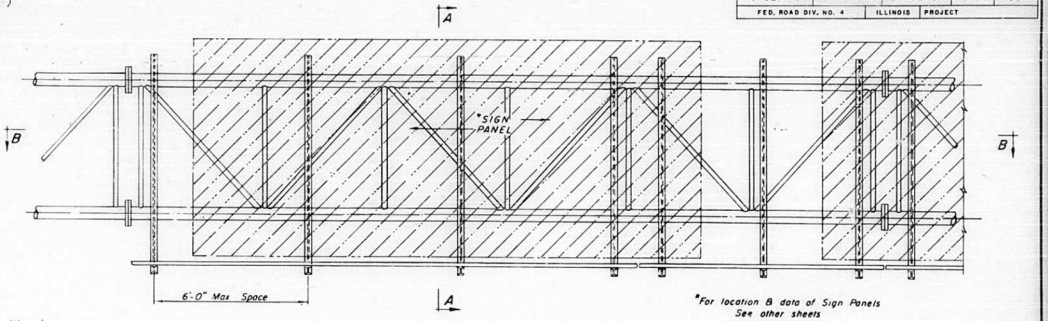
DESIGNED BY P.K.
DRAWN BY CJ
CHECKED BY P.K.
APPROVED BY K.A.

cem 7-25-67 Add data for Lt. & Rt. Support.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	56
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

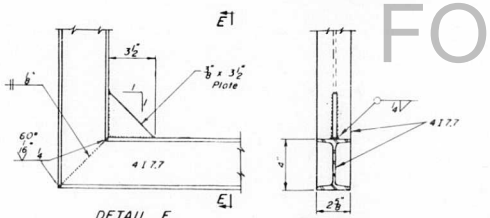


SECTION A-A



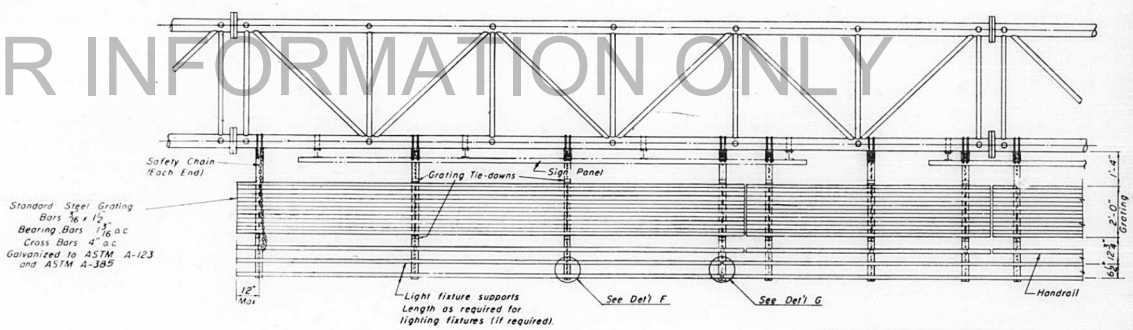
*For location & data of Sign Panels See other sheets

TYPICAL FRONT ELEVATION
(With Lights & Handrail omitted for clarity)



DETAIL E

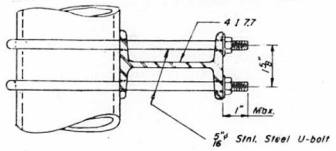
SECTION E-E



SECTION B-B

Note: Handrail & Grating shall span a minimum of three brackets. Place all sign and walkway brackets as close to panel points as possible

BRACKET DETAILS
Galvanized to ASTM A-123 & A-385



SECTION F-F

NOTES: Stainless steel hardware shall not be galvanized
For Detail F & G see Sheet No. 13

TRUSS NUMBER	STATION	A	B	C	D
14	92+30.00 ℄ Rdwy "A"	3 15/16"	4'-3"	6'-0"	11'-3"
15	87+77.00 ℄ Rdwy "A"	3 15/16"	3'-7½"	5'-3"	9'-10½"

ALTERNATE "B"

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

STEEL WALKWAY DETAILS

F.A.I. ROUTE 70
OVERHEAD SIGN STRUCTURES

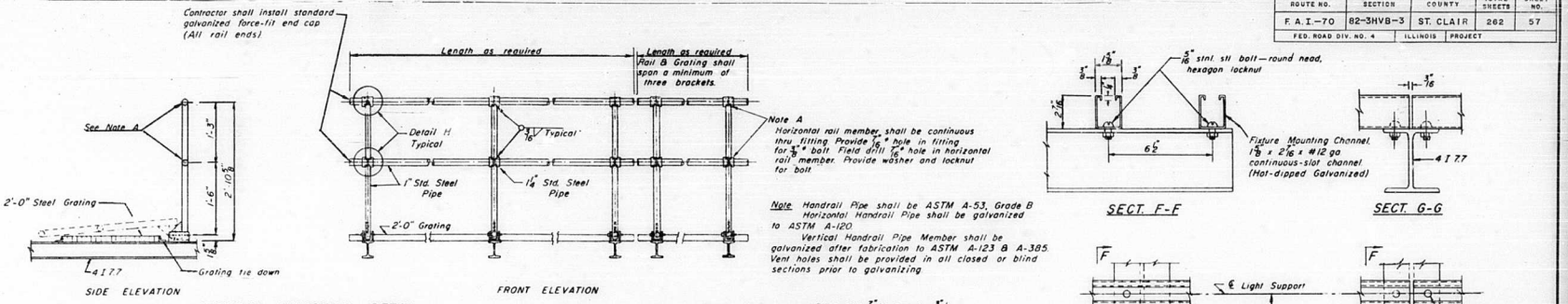
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-3

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

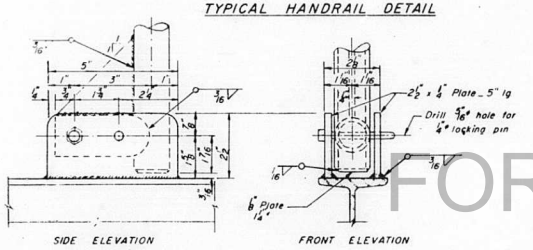
SHEET OF 13

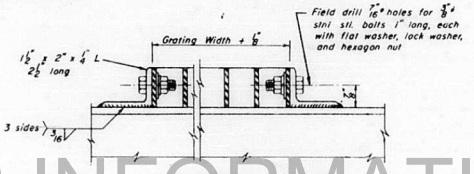
DESIGNED BY P.K.
DRAWN BY L.T.
CHECKED BY P.K.
APPROVED BY K.A.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.–70	82-3HVB-3	ST. CLAIR	262	57
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

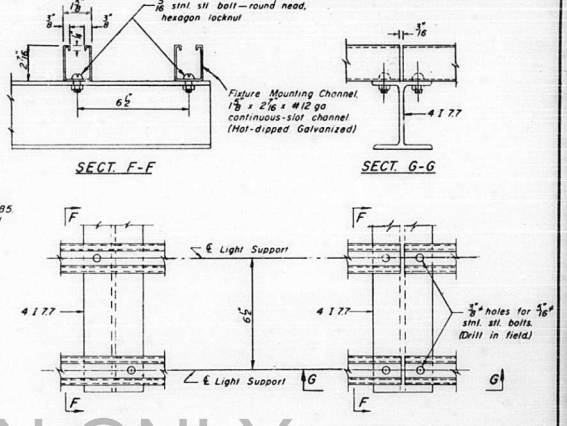


TYPICAL HANDRAIL DETAIL

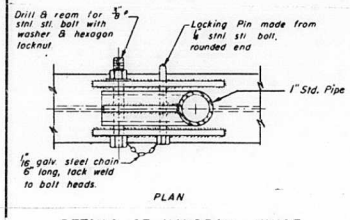




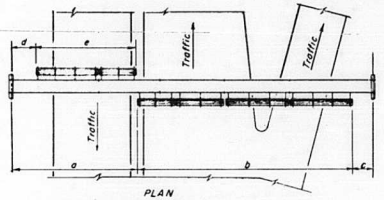
GRATING TIE DOWN
2 Req'd per Walkway Bracket



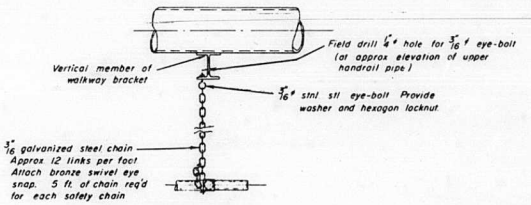
LIGHTING FIXTURE MOUNTS (IF REQ'D.)



DETAILS OF HANDRAIL HINGE

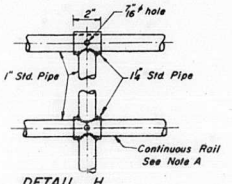


WALKWAY AND HANDRAIL SKETCH
Note: Road Plan shown beneath truss just typical.



SAFETY CHAIN
One (1) required for each end of each walkway.

Truss Number	Station	a	b	c	d	e	Grating & Handrail Lengths
14	85+30.00℄ Rdwy "A"	–	30'-0"	2'-0"	–	–	30'-0"
15	85+77.00℄ Rdwy "A"	–	49'-0"	2'-0"	–	–	49'-0"



DETAIL H
Welds 5/16 continuous

Note: All bolts, nuts, and washers shall be stainless steel.

ALTERNATE "B"

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

STEEL WALKWAY DETAILS

F.A.I. ROUTE 70
OVERHEAD SIGN STRUCTURES

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

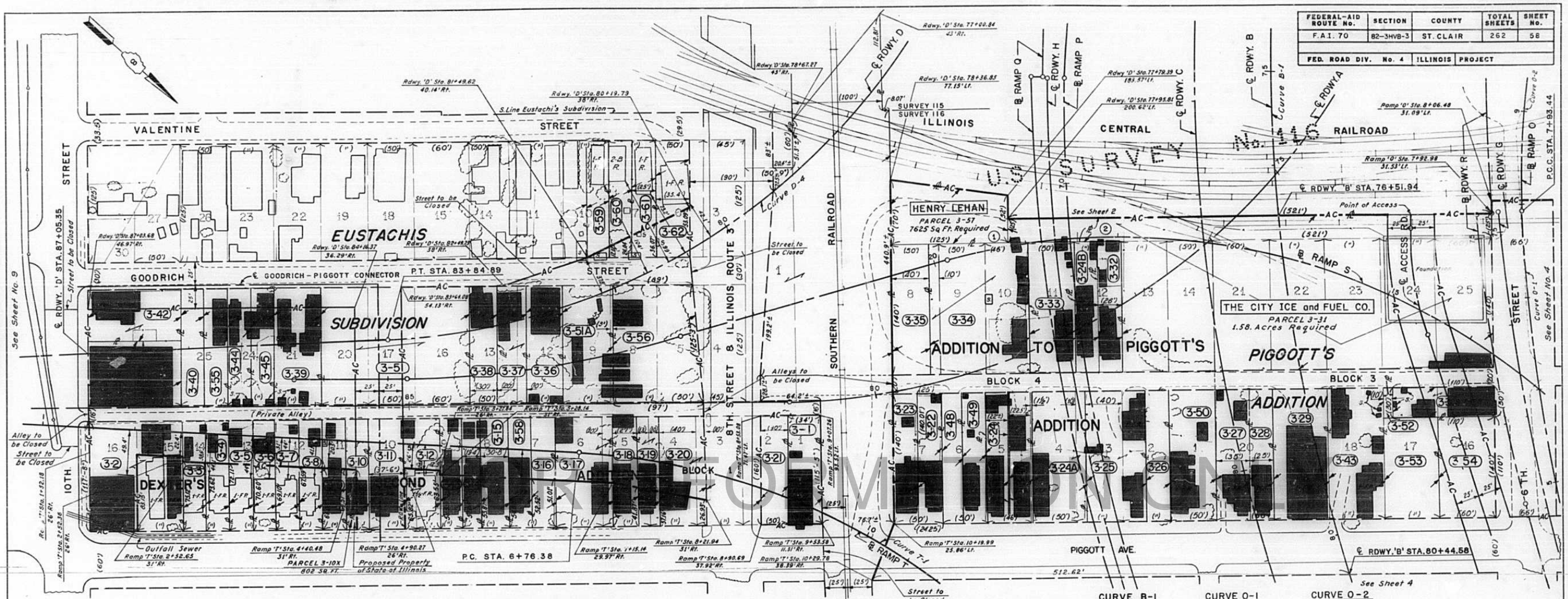
DESIGNED BY	P.K.
DRAWN BY	
CHECKED BY	P.K.
APPROVED BY	K.A.

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

SHEET 13 OF 13

CEM 7-25-67 Rev. Dim. on Truss 16 in Box.

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB-3	ST. CLAIR	262	58
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		



PIGGOTT'S ADDITION TO TOWN OF ILLINOIS (1)

PARCEL NO	LOT NO.	BLOCK NO.	OWNER	AREA REQ'D SQ. FT.	REMAINDER SQ. FT.
3-27	pt.20	3	WILLIAM A. KOPP and ANITA E. KOPP, his wife	4,900	0
3-28	pt.20	3	GEORGE NELSON and LEONA NELSON, his wife	3,500	0
3-29	19	3	MODERN ENGINEERING COMPANY, INC.	8,400	0
3-30	pt.17 pt.16	3	ESAU FUNCHES and NETTIE FUNCHES, his wife	3,300	0
3-52	pt.17	3	EMMA L. VEACH	300	0
3-43	18	3	JIM MADISON and CREALOR MADISON, his wife	8,400	0
3-53	pt.17	3	GROVER C. SIBLEY	6,600	0
3-54	pt.16	3	HARRY ELDRIDGE and GEORGIA L. ELDRIDGE, his wife	6,600	0

(1) BOOK OF PLATS 'T', PAGE 117

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

PARCEL NO.	LOT NO.	BLOCK NO.	OWNER	AREA REQ'D SQ. FT.	REMAINDER SQ. FT.
3-23	pt.7	4	JESSE NUNN and IDELLA NUNN, his wife	3,553	0
3-24 3-24A 3-24B	pt.3 pt.4 pt.5, pt.6	4	ANGELO E. CASTELLANI and ANNA N CASTELLANI, his wife	[illegible]	0 0 0
3-25	pt.3, pt.2	4	PHILLIP H. COHN Jr.	9,100	0
3-26	pt.2	4	MYRTLE SURATT RANDLE	3,500	0
3-22	pt.7	4	FRITZ SILBERMAN and FLORENCE E. SILBERMAN, his wife	3,447	0
3-32	pt.12	4	MAHALIE WOODS	3,640	0
3-33	11	4	FLOYD HAWKINS and NANCY HAWKINS, his sister	7,000	0
3-34	pt.8, 9, 10	4	PHILIP DAVIS	14,840	0
3-35	pt.8	4	BRUCE H. LEW and LOUIS E. MITAUER	5,600	0
3-46	pt.5	4	SAMMY CONNOR Sr., MATTIE CONNOR, his wife and, SAMMY CONNOR Jr.	3,080	0
3-47	pt.4, pt.5	4	SIMON HOUSTON and ANNIE C. HOUSTON, his wife	3,360	0
3-48	pt.6	4	EUGENE and ROBERT MAULE and EUGENIA SICKAGE	3,500	0
3-49	pt.6	4	MICHAEL KLOVANICH and FRANK NALIVAYKO	3,500	0
3-50	1	4	HENRY A. HOOVER and ERISENE HOOVER, his wife	7,000	0

(2) 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	7,671	4,082
3-3	pt.14	1	LEON THOMPSON and SAVANAH THOMPSON, his wife	1,075	1,659
3-4	pt.14	1	CORNELL DAUGHERTY and 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 and MARGERET BOGDAN, his wife	1,183	1,746
3-7	pt.12	1	MILES HOWARD and SAVANNAH 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 and MARGARET COLEMAN, his wife	1,291	1,633
3-10	pt.11	1	LOUIS STREETER and CORNELIA STREETER, his wife	2,120	0
3-11	pt.10	1	HAZEL HOLLIS	4,379	0
3-12	pt.10, pt.9	1	HENRY LOUIS DOWELL and SARAH DOWELL, his wife	1,948	2,426
3-13	pt.9	1	JAMES A. TOLSON and ADA TOLSON, his wife	1,470	1,445
3-14	pt.8	1	EARNEST OUTLAW and VERTIE MAE OUTLAW, his wife	1,162	1,091
3-15	pt.8	1	ANNIE L. BALL and 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.3, pt.4	1	MARY E. GEROLD	1,759	909
3-20	pt.3, pt.4	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 SECOLA WHITE	1,578	1,332
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 and MABEL BANKS, his wife	5,000	0
3-37	pt.12, pt.13		MAGGIE TATE	3,750	0
3-38	pt.13		ARTHUR P. MEYER and ELNORA B. MEYER, his wife	3,750	0
3-39	21		ERNEST J. HOPFINGER and RAYMOND HOPFINGER	6,250	0
3-40	pt.25		ALEX DOMYAN and SHIRLEY M. DOMYAN, his wife	3,125	0
3-41	pt.28, pt.29		ROSE DOMYAN	7,000	0
3-42	pt.28, pt.29		ARTHUR C. DOUGLAS and BESSIE DOUGLAS, his wife	5,500	0
3-44	pt.24		EDWARD P. HOLLMAN and DOROTHY LEE HOLLMAN, his wife	3,125	0
3-45	pt.24		CHARLES DOMYAN Jr. and ALEX DOMYAN	3,125	0
3-51	16, 17, 20		ESTATE of GEORGE SCHAUB	20,000	0
3-51A	pt.8, 9		ESTATE of GEORGE SCHAUB	6,625	0
3-56	pt.5, pt.8		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'

scale 50 0 50 100 feet

LEGEND
- AC — Access Control and Right of Way Line
- Property line
- Same Ownership
- Existing R.O.W. line
- (100') Recorded dimension
- 100' Measured dimension
- (1), 10 Lot Number
- R Residential
- C Commercial
- G Garage
- S Shed
- 1½ 1½-Stories
- F Frame
- B Brick
- Proposed R.O.W. Line
- AC 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 # 885 Date

Approved ______________________ ________
District Engineer Date

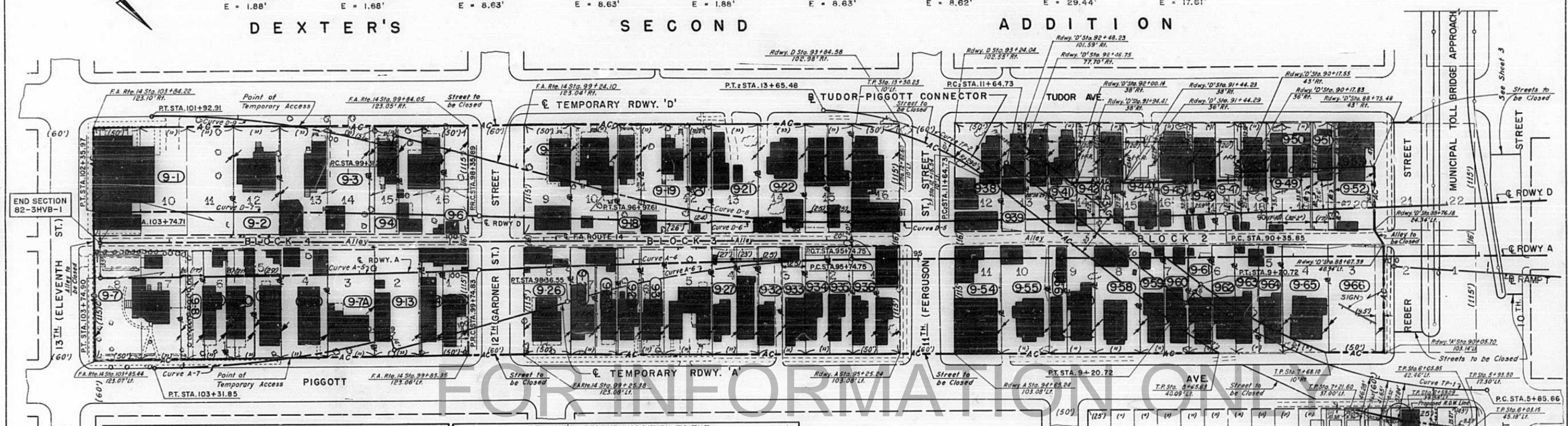
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS
F.A.I. ROUTE 70
RIGHT OF WAY PLAN
10TH STREET TO 6TH STREET

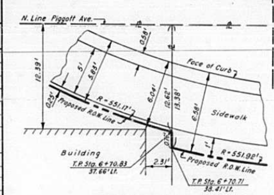
FOR INFORMATION ONLY

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

	CURVE A-4	CURVE A-5	CURVE A-6	CURVE A-7	CURVE D-7	CURVE D-8	CURVE D-9	CURVE T.P.-1	CURVE T.P.-2
P.I.	97+74.81	101+74.89	97+06.40	102+01.72	100+35.95	95+67.46	100+62.83	7+59.76	12+69.03
Δ	2°08'54"	2°08'54"	15°00'00"	14°59'51"	2°08'54"	15°00'00"	14°59'31"	38°23'43"	38°20'27"
D	0°32'13"	0°32'13"	5°43'46"	5°43'46"	0°32'13"	5°43'46"	5°43'46"	11°27'33"	19°05'55"
R	10,670.00'	10,670.00'	1,000.00'	1,000.00'	10,670.00'	1,000.00'	1,000.00'	500.00'	300.00'
L	400.08'	400.08'	261.80'	261.76'	400.08'	261.80	261.66'	335.06'	200.75'
T	200.06'	200.06'	131.65'	131.63'	200.06'	131.65'	131.58'	174.10'	104.30'
E	1.88'	1.68'	8.63'	8.63'	1.88'	8.63'	8.62'	29.44'	17.61'

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB-3	ST. CLAIR	262	59
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		





DETAIL 'A'

Not to Scale

DEXTER'S SECOND ADDITION TO THE CITY OF EAST ST. LOUIS (1)					
PARCEL NO.	LOT NO.	BLOCK NO.	OWNER	AREA REQ'D SQ. FT.	REMAINDER SQ. FT
9-1	9,10,11	4	MT. ZION BAPTIST CHURCH	17,250	0
9-2	12	4	ALICE ROBINSON	5,750	0
9-3	13, pt.14	4	WILLIAM H. NICHOLSON and FANNIE NICHOLSON, his wife	10,925	0
9-4	pt.14, pt.15	4	D.KENNETH RANK and MILDRED RANK, his wife	3,450	0
9-5	pt.15, pt.16	4	MARCH CALMESE and WILLIE LEE CALMESE, his wife	5,750	0
9-6	pt.16	4	MARCH CALMES	2,875	0
9-7	8, pt.7	4	WILLIAM THOMAS GUENO and MARTHA ANN GUENO, his wife	10,580	0
9-7A	3	4	WILLIAM THOMAS GUENO and MARTHA ANN GUENO, his wife	5,750	0
9-9	pt. 6	4	LEE D. BROWN and FLOSSIE BROWN, his wife	2,875	0
9-10	pt.5, pt.6	4	P.Q. CRIGGLER and MARY ANN CRIGGLER, his wife	3,335	0
9-11	pt.5	4	MARY RAINEY and VIRGINIA RAINEY, her daughter	3,335	0
9-12	4	4	MATTIE LEWIS and FRANK LEWIS, her husband	5,750	0
9-13	2	4	JOHN ANDERSON and MYRTLE LEE ANDERSON, his wife	5,750	0
9-14	pt.1	4	ETHEL D. ROOSE and ROBERT H. ROOSE	2,760	0
9-15	pt.1	4	IDA HERRON BOYD	2,990	0
9-16	9	3	FRANK JAMES WITHERSPOON and MARY WITHERSPOON, his wife	5,750	0
9-17	10	3	MINNIE CLAIBORNE	5,750	0
9-18	pt.11	3	LOUIS N. RANK	2,875	0
9-19	pt.11, pt.12	3	MARILLYN E. WATTS	5,865	0
9-20	pt.12	3	JESSE P. GURLEY and MARTHA GURLEY, his wife	2,760	0
9-21	13	3	ROBERT WOODS and MARIE WOODS, his wife	5,750	0
9-22	14	3	CANARY B. HUMPHREY	5,750	0
9-23	pt.15	3	BEN SMITH and CLAUDIA SMITH, his wife	2,875	0
9-24	pt.15	3	WESLEY B. WITHERSPOON and CLEADITH MAY WITHERSPOON, his wife	2,875	0
9-25	16	3	MARGARET L. JONES	5,750	0
9-26	8	3	MARIA O'BRIEN	5,750	0
9-27	pt.4	3	W. ELMER RANK and LORETTA RANK, his wife	3,105	0
9-27A	pt.7	3	W. ELMER RANK and LORETTA RANK, his wife	2,875	0
9-29	pt.6	3	CHRIS McKINNEY and CLARA McKINNEY, his wife	2,875	0
9-30	pt.6	3	PAUL W. DAVIS and ROZELIA DAVIS, his wife	2,875	0
9-31	5	3	BISHOP HOLMES and JOELLA HOLMES, his wife	5,750	0
9-32	pt.3	3	McKINLEY JONES and ANNIE PEARL JONES, his wife	2,875	0
9-33	pt.3	3	MILTON HORNE and MARY LEE HORNE, his wife	2,875	0
9-28	pt.4	3	LEO L. RANK and ANTOINETTE his wife	2,645	0
9-28A	pt.7	3	LEO L. RANK and ANTOINETTE his wife	2,875	0

DEXTER'S SECOND ADDITION TO THE CITY OF EAST ST. LOUIS (1)					
PARCEL NO.	LOT NO	BLOCK NO.	OWNER	AREA REQ'D SQ. FT.	REMAINDER SQ. FT.
9-34	pt.2	3	ANNA KELLER	2,875	0
9-35	pt.2	3	BEATRICE WEST	2,875	0
9-36	pt 1	3	ELLIOTT BROWN and ELVIRA BROWN, his wife	2,875	0
9-37	pt.1	3	DOUGLAS HOOKS and RUSSIA B. HOOKS, his wife	2,875	0
9-38	12	2	JOHN O. GOLLIDAY and DOLLIE GOLLIDAY	5,750	0
9-39	pt.13	2	GEORGE HENRY HAWKINS and IDA MAY HAWKINS, his wife	2,875	0
9-40	pt.13	2	ESTATE of PHILIP H. COHN Jr.	2,032	843
9-41	pt.14	2	CURTIS JACKSON and ANNIE BELLE JACKSON, his wife	1,799	1,651
9-42	pt.14, pt.15	2	D. KENNETH RANK and MILDRED RANK, his wife	1,318	1,557
9-43	pt.15	2	WILLIAM P.A. RANK	1,332	1,543
9-44	pt.15, pt.16	2	EPHRAIM THOMAS Jr. and ADA THOMAS, his wife	1,955	2,357.5
9-45	pt.16, pt.17	2	CLAUDE JONES and DOROTHY MAE JONES, his wife	1,998	2,314.5
9-46	pt.17	2	LEWIS R. LYONS and ALTHA PAULINE LYONS, his wife	1,354	1,521
9-47	pt.17, pt.18	2	GENERAL SKINNER	1,431	1,564
9-48	pt.18	2	LEROY TAYLOR and ESTELLA TAYLOR, his wife	1,642	1,362
9-49	pt.18, pt.19	2	D.J. BEAM	3,209	2,541
9-50	pt.19	2	HENRY T. RENSHAW and wife	54	42
9-51	pt.19, pt.20	2	JAMES HOPKINS and MARJORIE HOPKINS, his wife	1,572	1,188
9-52	pt.20	2	CHARLES O. McCASLAND	11	8
9-53	pt.20	2	FRITZ SILBERMAN and FLORENCE E. SILBERMAN, his wife	2,855	2,071
9-54	11	2	WILLIAM F. BRENNAN and MARY A. BRENNAN, his wife	5,750	0
9-55	10	2	RUTH MERRITT	5,750	0
9-56	pt.9	2	FRITZ SILBERMAN	2,415	0
9-57	pt 9	2	WILLIE HENRY and MYRTLE HENRY	3,335	0
9-58	8	2	HATTIE FORD and WILLIE FORD, her husband	5,750	0
9-59	pt.7	2	STOKES WHITE and FANNIE WHITE, his wife, and EDGAR WHITE and MARY WHITE, his wife	2,875	0
9-60	pt.7	2	FRANK WILLIAMS	2,875	0
9-61	pt.6	2	ELLA BOLDEN	2,875	0
9-62	pt.6	2	ANDREW BAILEY	2,875	0
9-63	pt.5	2	LEO L. RANK and ANTOINETTE RANK, his wife	2,875	0
9-64	pt.5	2	W. ELMER RANK and LORETTA RANK, his wife	2,875	0
9-65	4	2	MARVIN H. SIMS	5,750	0
9-66	3 pt.2	2	GRIESEDIECK BROS. BREWERY Co.	6,843	0
9-8	pt.6 pt.7	4	EMIL MASTIS	2,875	0

(1) BOOK OF PLATS 'F', PAGE 1

CURVE D-5

P.I. = 92+35.85
Δ = 1°59'12"
D = 0°29'48"
R = 11,535.00'
L = 399.96'
T = 200.00'
E = 1.73'

CURVE D-6

P.I. = 96+35.87
Δ = 2°08'54"
D = 0°32'13"
R = 10,670.00'
L = 400.08'
T = 200.06'
E = 1.88'

DENVERSIDE

50 0 50 100 scale feet

DENVERSIDE CITY OF EAST ST. LOUIS					
PARCEL NO.	LOT NO.	BLOCK NO.	OWNER	AREA REQ'D SQ. FT.	REMAINDER SQ. FT.
9-67	pt.32	121	HAZEL DRIEMEYER	966	1334
9-68	pt.31 pt.32	121	ANTON THEODOROFF and FETKA A. THEODOROFF his wife	1103	4897
9-69A	pt.30 pt.29	121	DOUGLAS and LOVIE M. CLARK	211	1789
9-69B	pt.29 pt.28	121	JAMES O. THOMPSON and LADY DEL THOMPSON, his wife	122	1878
9-69C	pt. 28	121	LEROY and ERMA CHILDRESS	33	1967
9-69D	pt. 27	121	JOE and CARRY THOMAS	20	1980

(2) BOOK OF PLATS 'F', PAGE 39 & 40

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 depcrtment of Public Works and Buildings of the State of Illinois

by [signature] Illinois Land Surveyor #885 — 3-8-1965 Date

Approved ______ District Engineer ______ Date

HARRY W. LOCHNER 885 REGISTERED LAND SURVEYOR OF ILLINOIS

LEGEND

- AC — Access Control and Right of Way Line
- AC — Access Control Line
- Property Line
- Same Ownership
- Existing R.O.W. Line
- (100') Recorded Dimmention
- 100' Measured Dimmention
- 40 Lot Number
- R Residential
- C Commercial
- G Garage
- S Shed
- Apt. Apartment
- C.P. Car Port
- 1½ 1½ - Stories
- F Frame
- B Brick
- C.B. Concrete Block
- Right of Way Line

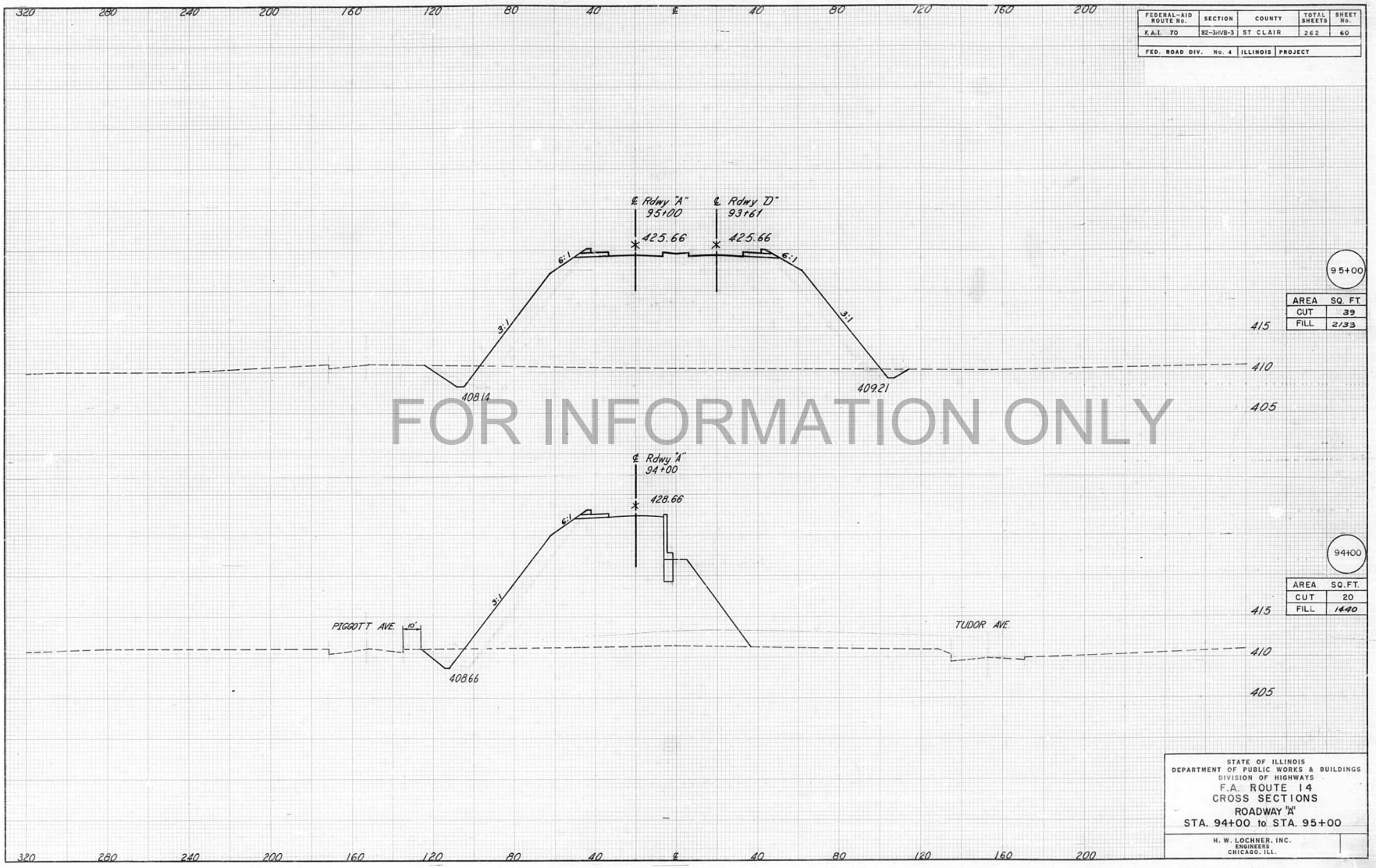
Rev. 3-8-1965
Rev. 5-4-1964

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

F.A.I ROUTE 70
RIGHT OF WAY PLAN
13TH STREET TO 10TH STREET

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

FOR INFORMATION ONLY

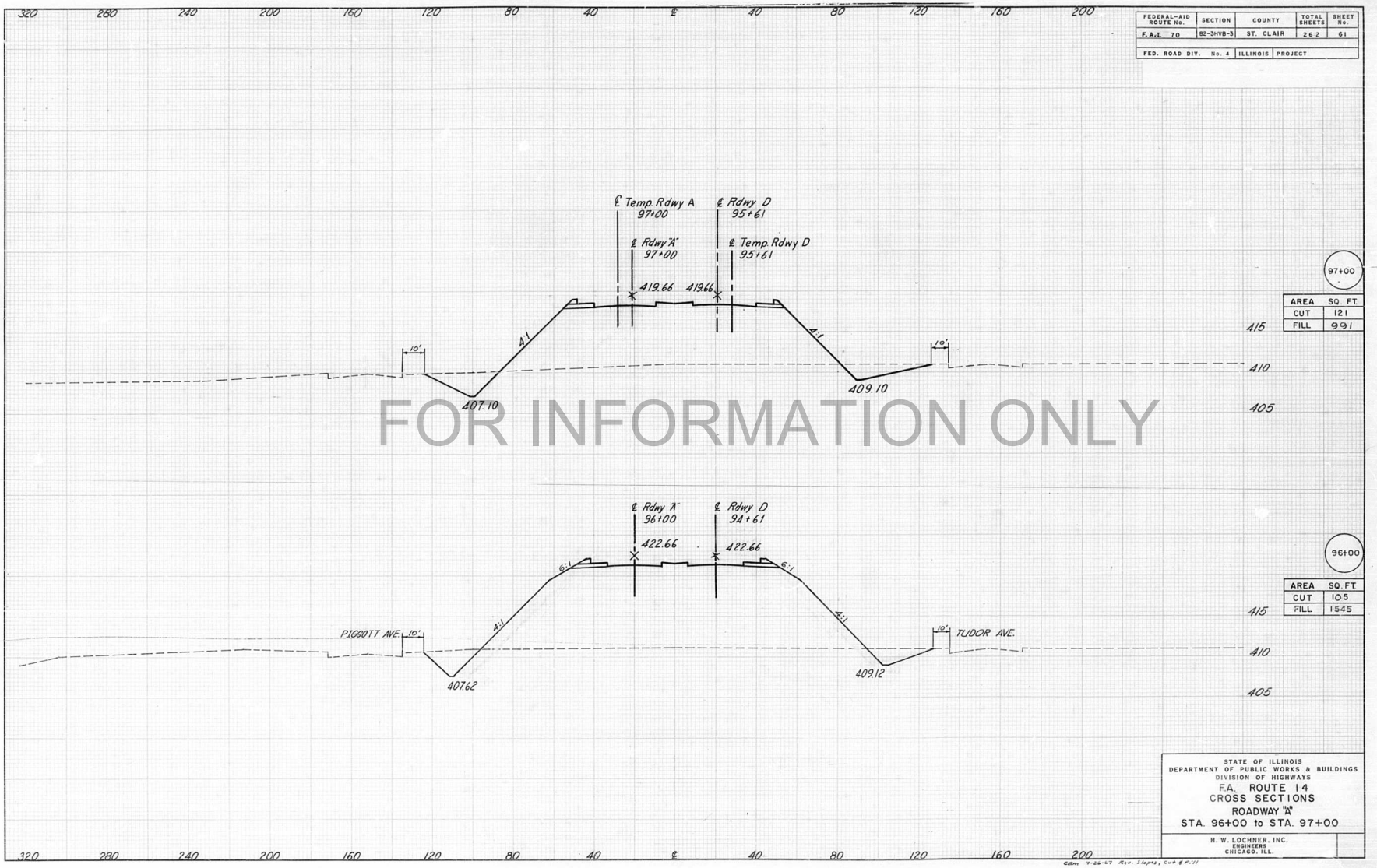


FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB-3	ST CLAIR	262	60
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS
F.A. ROUTE 14
CROSS SECTIONS
ROADWAY "A"
STA. 94+00 to STA. 95+00

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

cem 7-26-67 Rev. Slopes & Cut & Fill



FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB-3	ST. CLAIR	262	61
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		

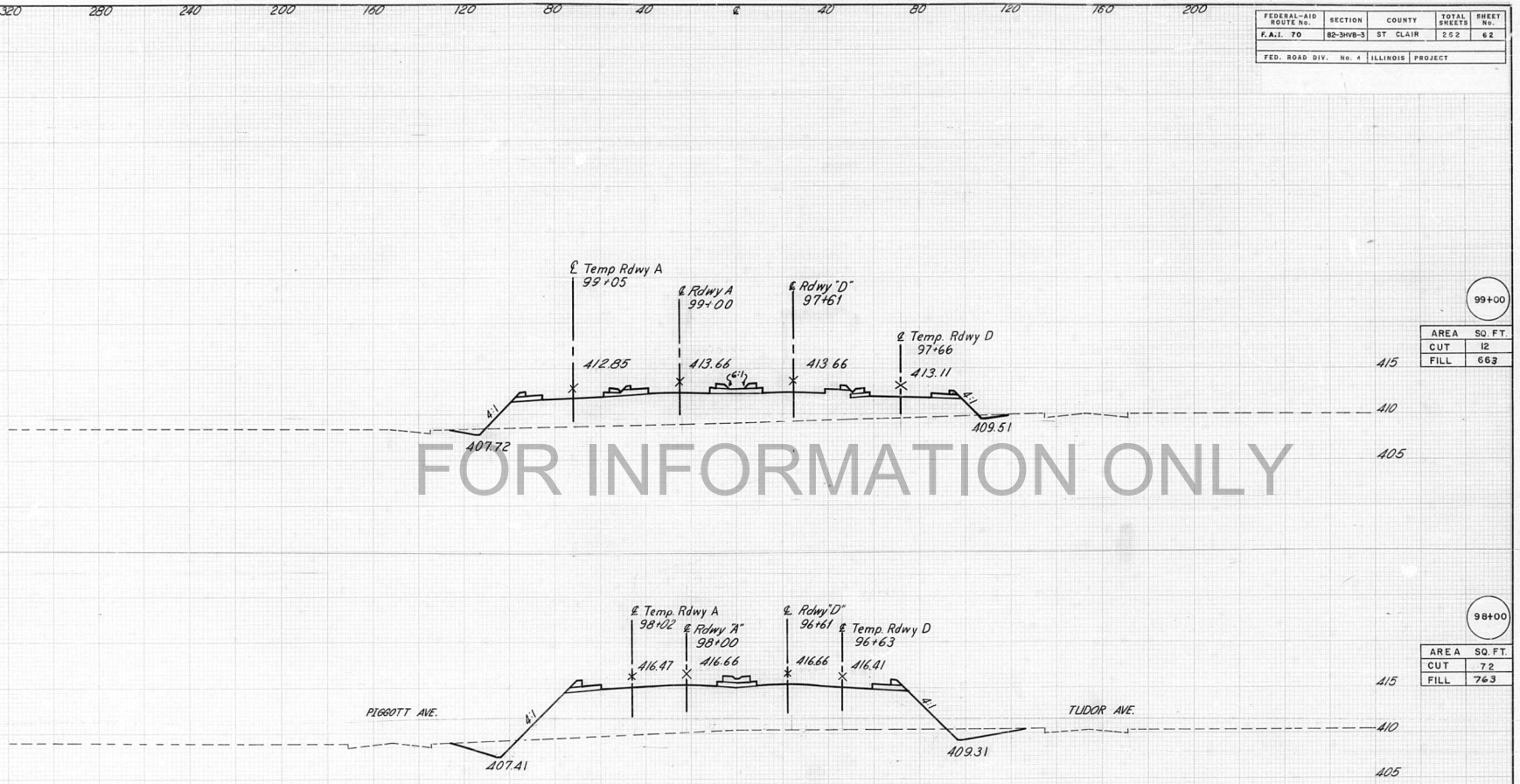
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

F.A. ROUTE 14
CROSS SECTIONS
ROADWAY "A"
STA. 96+00 to STA. 97+00

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

CEM 7-26-67 Rev. Slopes, Cut & Fill

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB-3	ST CLAIR	252	62
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		

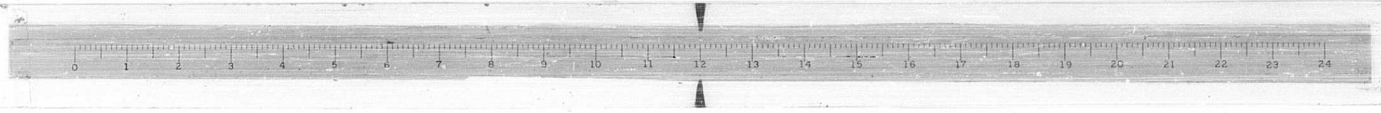


STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

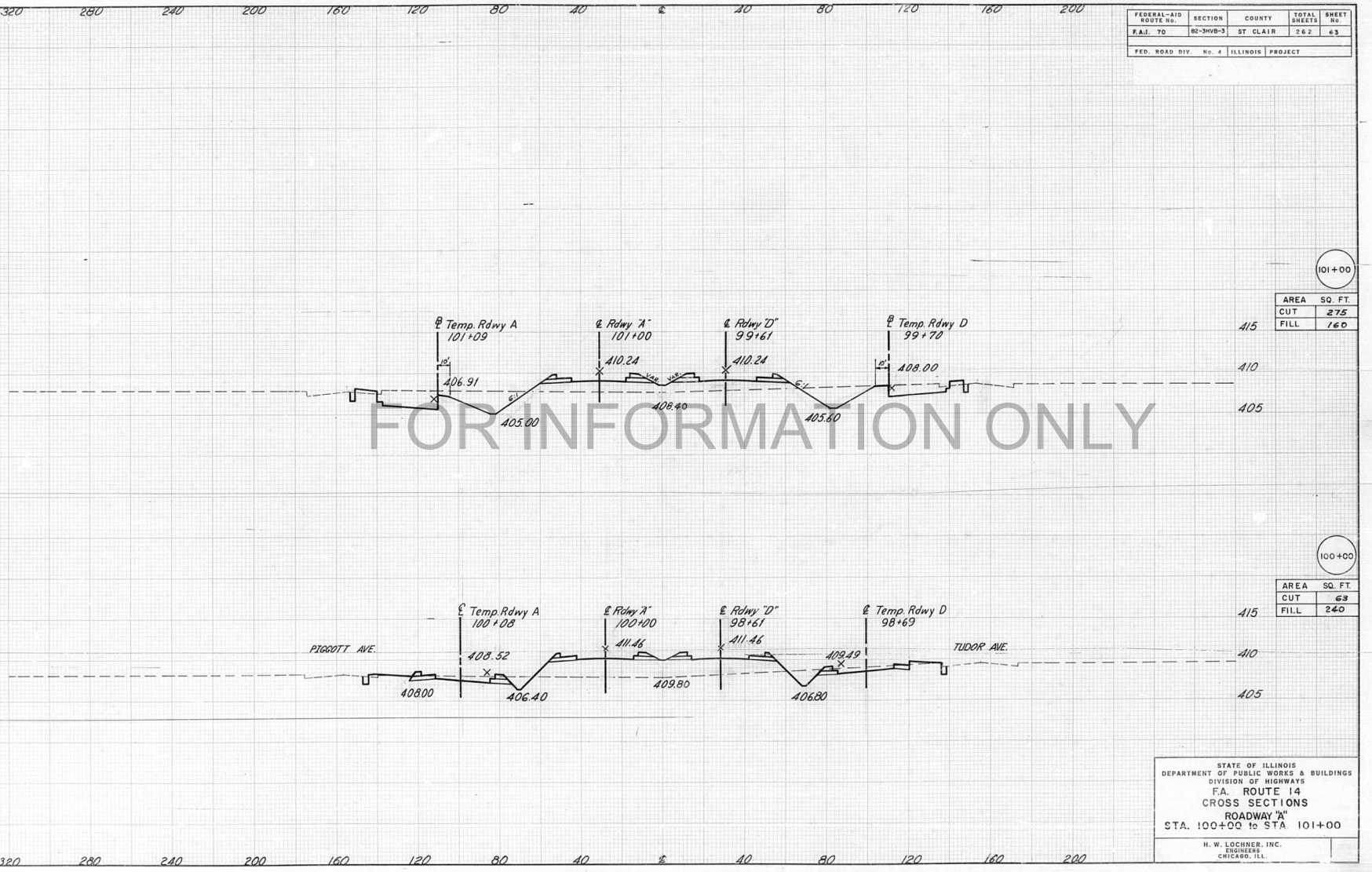
F.A. ROUTE 14
CROSS SECTIONS
ROADWAY "A"
STA. 98+00 to STA. 99+00

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

CEM 7-26-67 Rev. Shields, Slope, Cut, Fill



FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB-3	ST CLAIR	262	63
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		

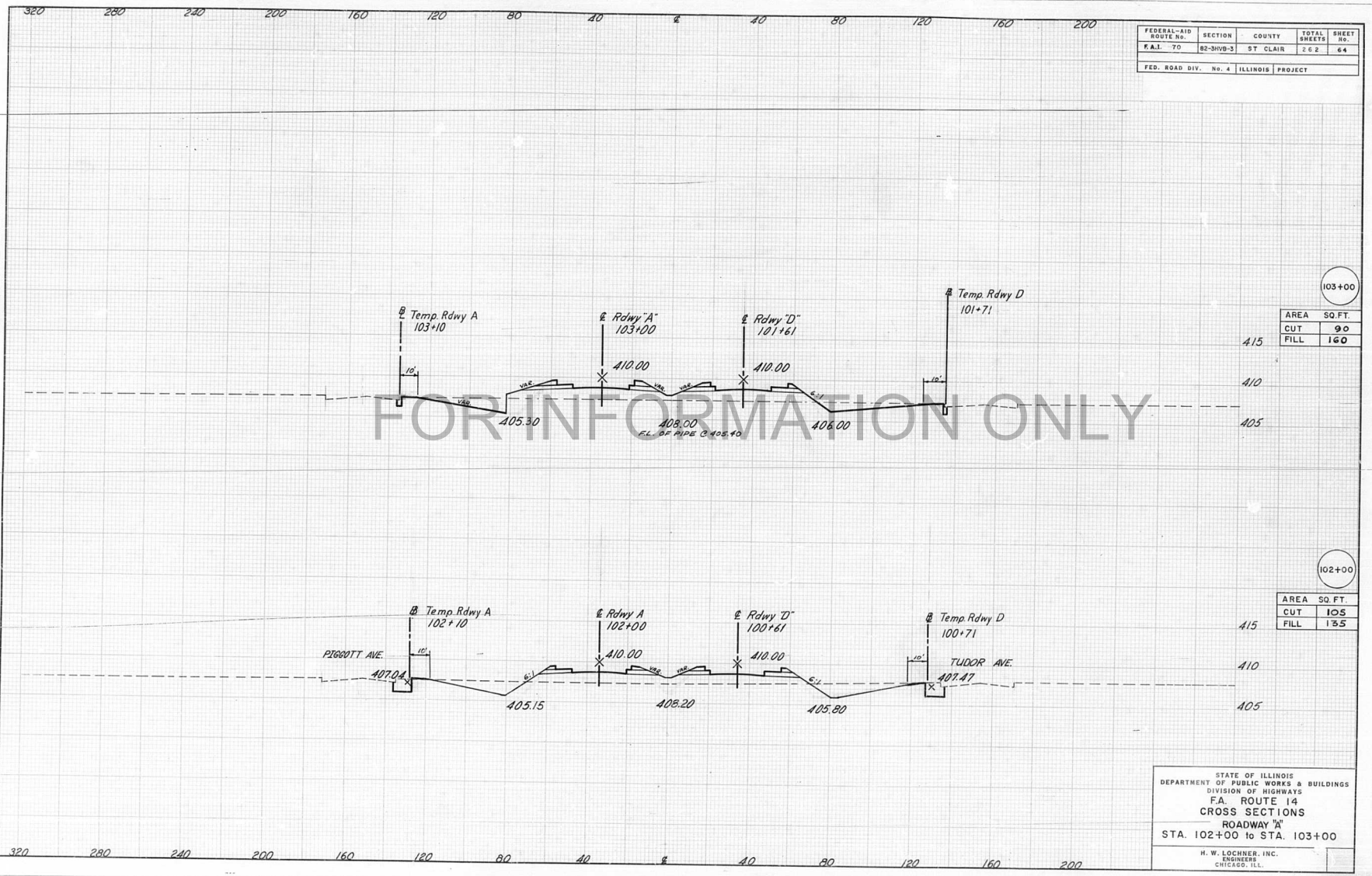


STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS
F.A. ROUTE 14
CROSS SECTIONS
ROADWAY "A"
STA. 100+00 to STA 101+00

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

CCM 7-2667 Rev. Shield, Slope, Cut, Fill

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB-3	ST CLAIR	262	64
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		



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

F.A. ROUTE 14

CROSS SECTIONS

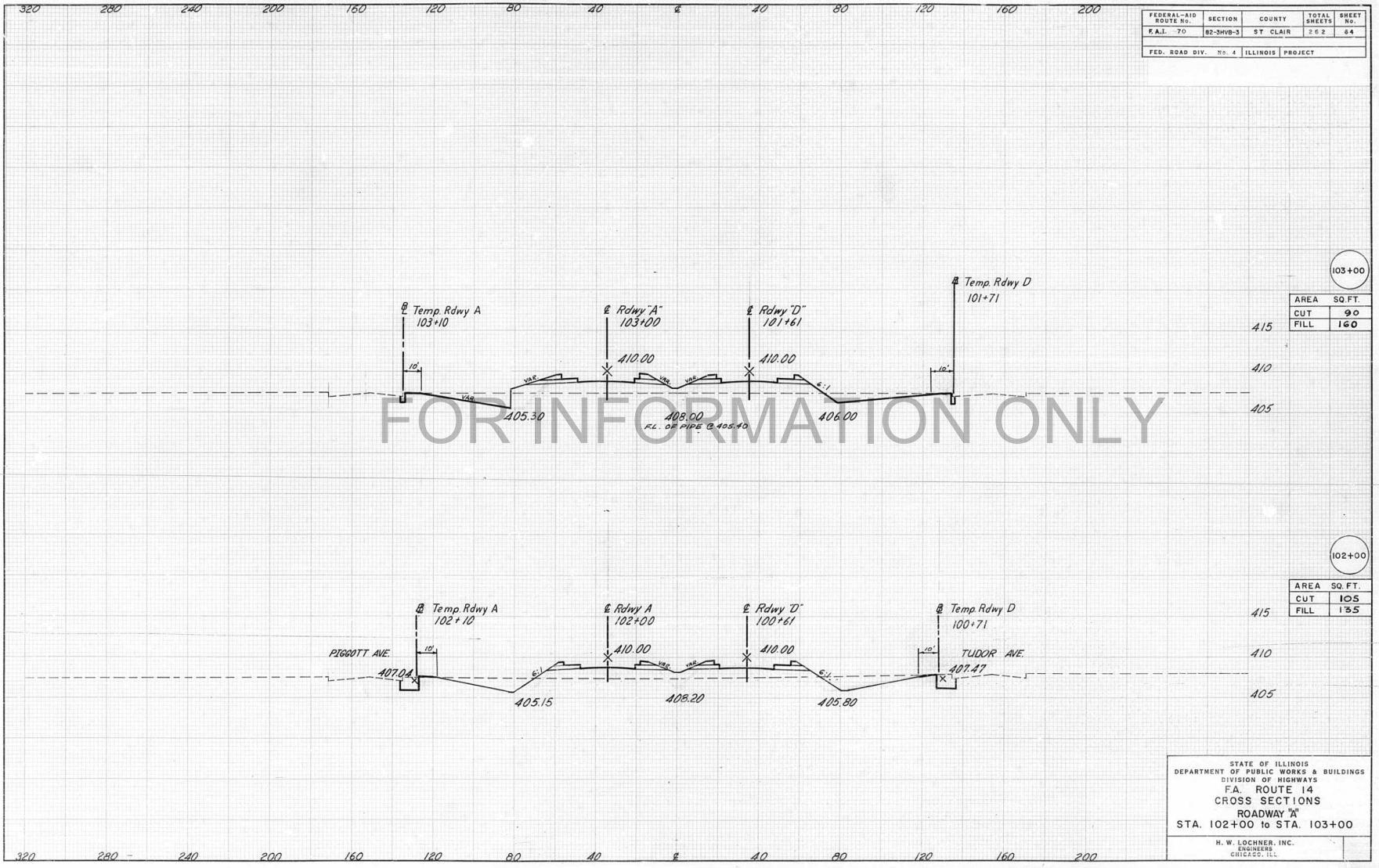
ROADWAY "A"

STA. 102+00 to STA. 103+00

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

CEM 7-26-67 Rev. Shld., Slope, Cut, Fill

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB-3	ST. CLAIR	262	64
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		



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

F.A. ROUTE 14
CROSS SECTIONS
ROADWAY "A"
STA. 102+00 to STA. 103+00

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

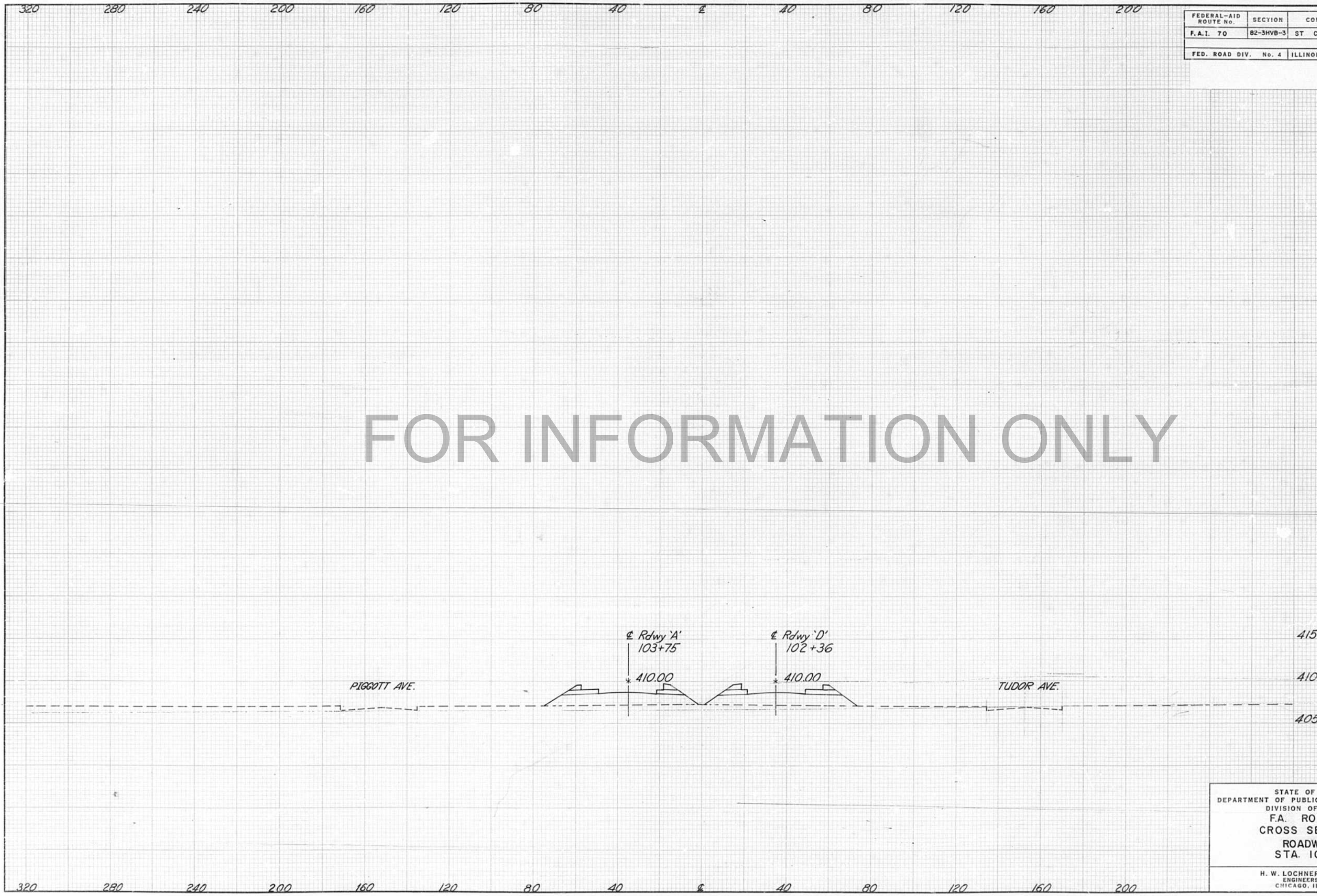
CEM 7-26-67 Rev. Shlds., Slope, Cut, Fill

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB-3	ST CLAIR	262	65
FED. ROAD DIV. No. 4		ILLINOIS	PROJECT	

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

103+75

AREA	SQ. FT.
CUT	0
FILL	196

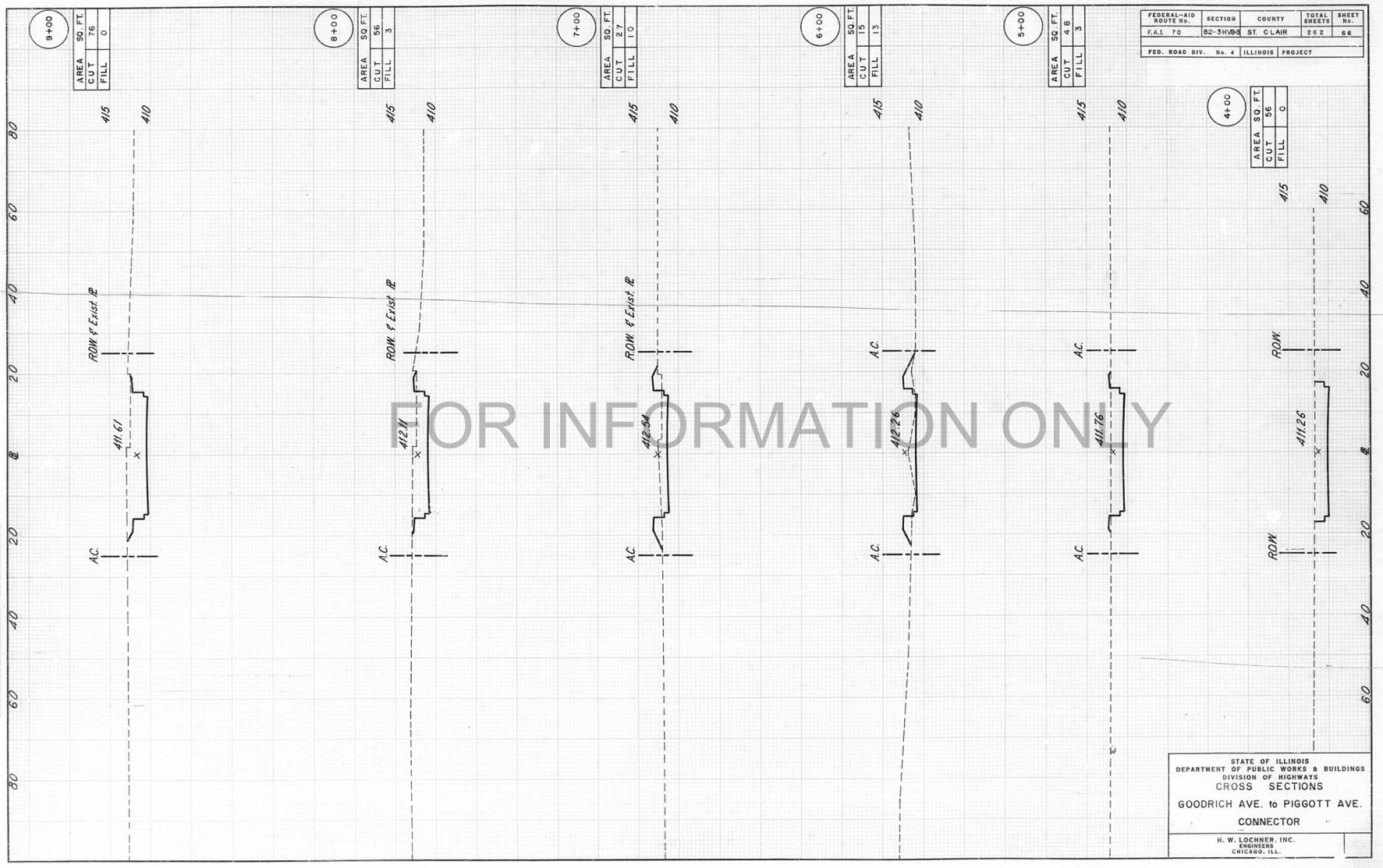


ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS
F.A. ROUTE 14
CROSS SECTIONS
ROADWAY "A"
STA. 103+75

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

cem 7-26-67 Rev. shlds, slope, Cut,



FOR INFORMATION ONLY

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HV93	ST. CLAIR	262	66
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		

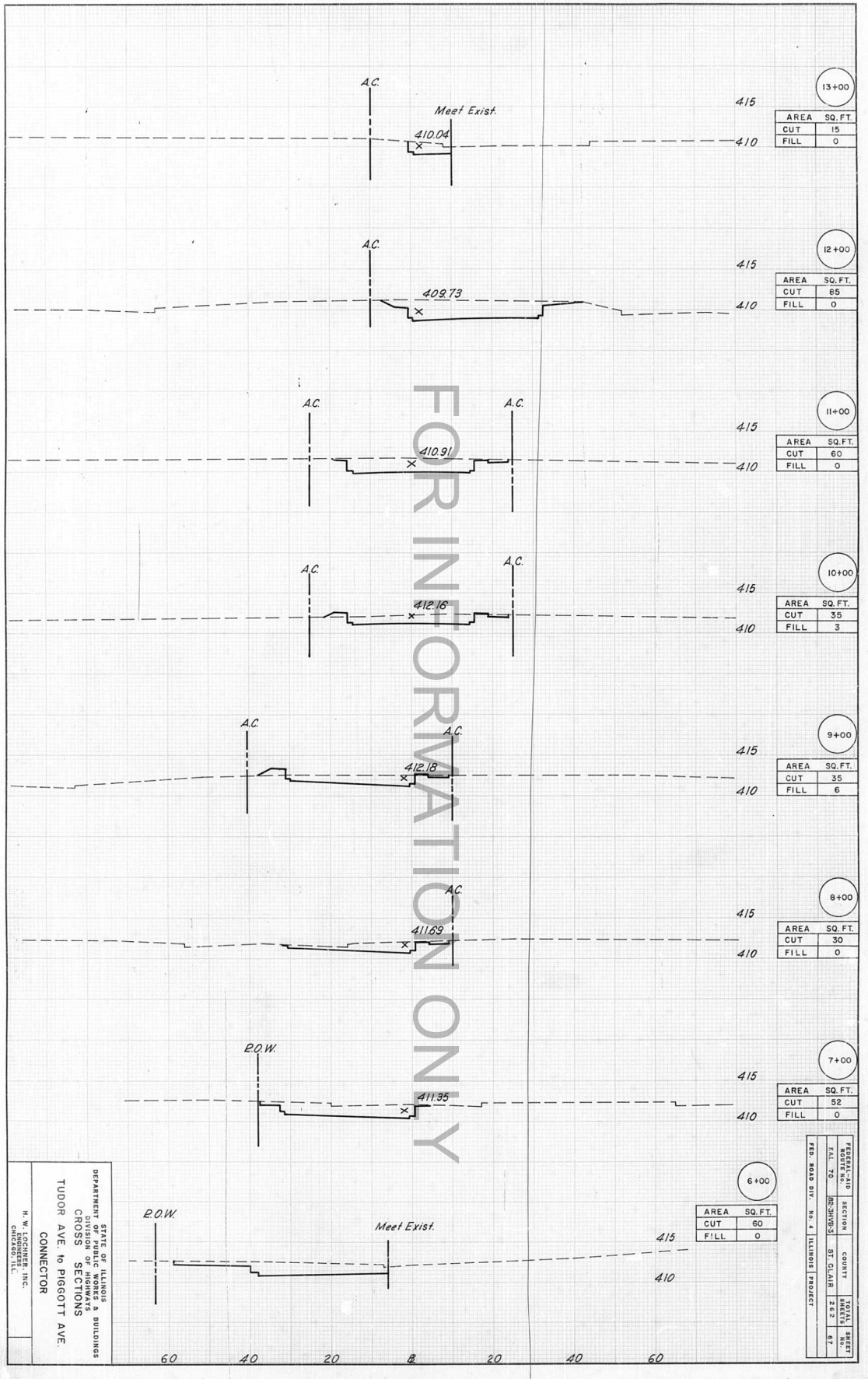
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

CROSS SECTIONS

GOODRICH AVE. to PIGGOTT AVE.

CONNECTOR

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



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

CROSS SECTIONS

TUDOR AVE. to PIGGOTT AVE.

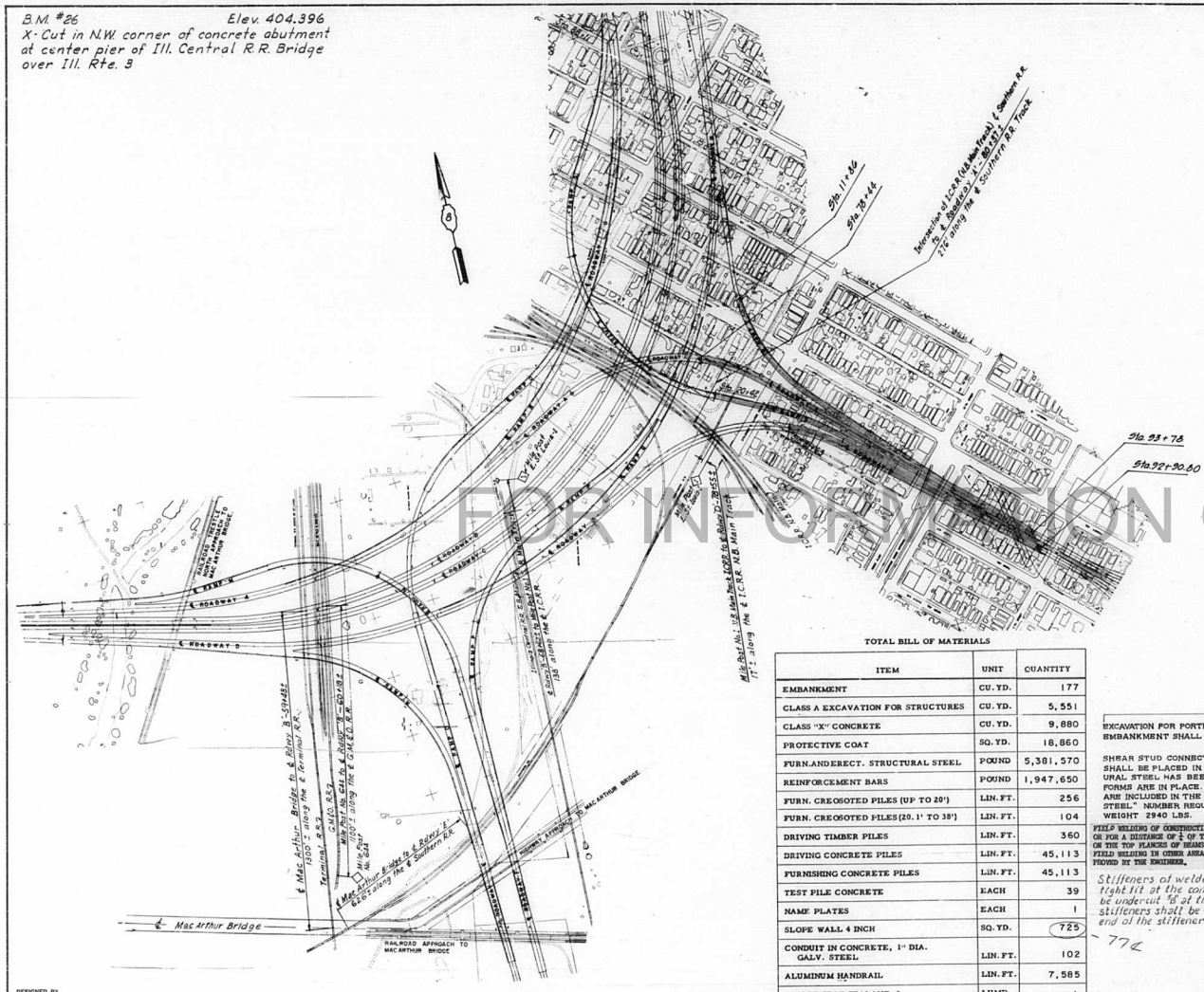
CONNECTOR

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

FED. ROAD DIV.	FEDERAL AID ROUTE NO.	SECTION
No. 4	F.A.I. 70	RS-3(H)B-3
ILLINOIS	COUNTY	
PROJECT	ST. CLAIR	
	TOTAL SHEETS	SHEET NO.
	262	67

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	202	68
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



KEY PLAN

TOTAL BILL OF MATERIALS

ITEM	UNIT	QUANTITY
EMBANKMENT	CU. YD.	177
CLASS A EXCAVATION FOR STRUCTURES	CU. YD.	5,551
CLASS "X" CONCRETE	CU. YD.	9,880
PROTECTIVE COAT	SQ. YD.	18,860
FURN. AND ERECT. STRUCTURAL STEEL	POUND	5,381,570
REINFORCEMENT BARS	POUND	1,947,650
FURN. CREOSOTED PILES (UP TO 20')	LIN. FT.	256
FURN. CREOSOTED PILES (20.1' TO 38')	LIN. FT.	104
DRIVING TIMBER PILES	LIN. FT.	360
DRIVING CONCRETE PILES	LIN. FT.	45,113
FURNISHING CONCRETE PILES	LIN. FT.	45,113
TEST PILE CONCRETE	EACH	39
NAME PLATES	EACH	1
SLOPE WALL 4 INCH	SQ. YD.	725
CONDUIT IN CONCRETE, 1" DIA. GALV. STEEL	LIN. FT.	102
ALUMINUM HANDRAIL	LIN. FT.	7,585
BRIDGE SEAT SEALANT *	LUMP SUM	1
PILE SPLICES FOR CONCRETE PILES	EACH	300

CLASS A EXCAVATION FOR STRUCTURES INCLUDES EXCAVATION FOR SLOPE WALL.
* BRIDGE SEAT SEALANT TO BE USED AT ABUTMENTS AND PIERS WITH OPEN DECK JOINTS.

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 WELDING SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR WELDED HIGHWAY AND RAILWAY BRIDGES OF THE AMERICAN WELDING SOCIETY, AWS D2. 0-63.

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.

HIGH STRENGTH STEEL BOLT CONNECTIONS SHALL BE IN ACCORDANCE WITH ART. 54.5g OF THE STANDARD SPECS.

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 SURFACES 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 65,010 LBS.

EXCEPT AS OTHERWISE PROVIDED, ALL STRUCTURAL STEEL SHALL RECEIVE ONE SHOP COATS 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 END 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.

EXCAVATION FOR PORTIONS OF STRUCTURES IN THE EMBANKMENT SHALL NOT BE CLASSIFIED.

SHEAR STUD CONNECTORS ON THE BEAM FLANGES SHALL BE PLACED IN FIELD AFTER THE STRUCTURAL STEEL HAS BEEN ERECTED AND THE DECK FORMS ARE IN PLACE. THE SHEAR CONNECTORS ARE INCLUDED IN THE QUANTITY OF "STRUCTURAL STEEL." NUMBER REQUIRED 3525, ESTIMATED WEIGHT 2940 LBS.

FIELD WELDING OF CONSTRUCTION ACCESSORIES TO THE BOTTOM FLANGES OR FOR A DISTANCE OF $\frac{1}{4}$ OF THE SPAN EACH WAY FROM PIER SUPPORTS OR THE TOP FLANGES OF BEAMS OR GIRDERS WILL NOT BE PERMITTED. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.

Stiffeners of welded plate girder to be tight fit at the compression flange, and to be undercut $\frac{1}{2}$" at the tension flange. Bearing stiffeners shall be milled on the bearing end of the stiffeners.

DESIGN STRESSES
f_c = 1400 p.s.i. Super and Sub.
f_s = 20,000 p.s.i. Reinforcement
f_s = 20,000 p.s.i. Struct. (A-36 Steel)
V_c = 75 p.s.i. Footings
n = 10
LOADING HS20 & 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.

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-3

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

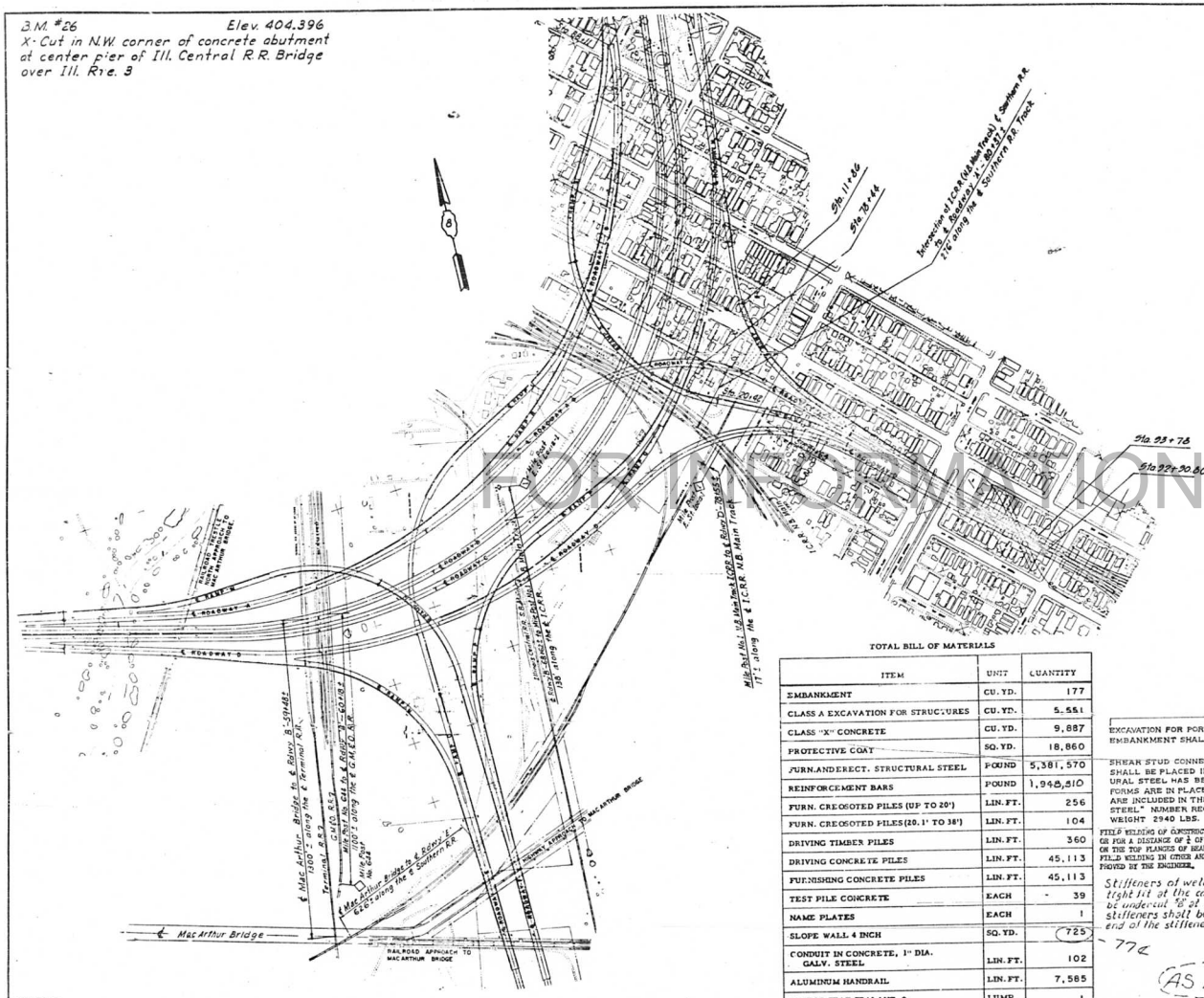
SHEET 1 OF 163

DESIGNED BY
DRAWN BY
CHECKED BY
APPROVED BY

Revised 5-18-67

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	68A
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



TOTAL BILL OF MATERIALS

ITEM	UNIT	QUANTITY
EMBANKMENT	CU. YD.	177
CLASS A EXCAVATION FOR STRUCTURES	CU. YD.	5,551
CLASS "X" CONCRETE	CU. YD.	9,887
PROTECTIVE COAT	SQ. YD.	18,860
FURN. AND ERECT. STRUCTURAL STEEL	POUND	5,381,570
REINFORCEMENT BARS	POUND	1,948,810
FURN. CREOSOTED PILES (UP TO 20')	LIN. FT.	256
FURN. CREOSOTED PILES (20.1' TO 38')	LIN. FT.	104
DRIVING TIMBER PILES	LIN. FT.	360
DRIVING CONCRETE PILES	LIN. FT.	45,113
FURNISHING CONCRETE PILES	LIN. FT.	45,113
TEST PILE CONCRETE	EACH	39
NAME PLATES	EACH	1
SLOPE WALL 4 INCH	SQ. YD.	725
CONDUIT IN CONCRETE, 1" DIA. GALV. STEEL	LIN. FT.	102
ALUMINUM HANDRAIL	LIN. FT.	7,585
BRIDGE SEAT SEALANT *	LUMP SUM	1
PILE SPLICES FOR CONCRETE PILES	EACH	300

CLASS A EXCAVATION FOR STRUCTURES INCLUDES EXCAVATION FOR SLOPE WALL.
* BRIDGE SEAT SEALANT TO BE USED AT ABUTMENTS AND PIERS WITH OPEN DECK JOINTS.

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 WELDING SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR WELDED HIGHWAY AND RAILWAY BRIDGES OF THE AMERICAN WELDING SOCIETY, AWS D2. 0-63.

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.

HIGH STRENGTH STEEL BOLT CONNECTIONS SHALL BE IN ACCORDANCE WITH ART. 54.5g OF THE STANDARD SPECS.

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 SURFACES 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 65,010 LBS.

EXCEPT AS OTHERWISE PROVIDED, ALL STRUCTURAL STEEL SHALL RECEIVE ONE SHOP COATS 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 PRECORED THROUGH THE EMBANKMENT IN ACCORDANCE WITH ARTICLE 60.9 (c) OF THE STANDARD SPECIFICATIONS.

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

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

EXCAVATION FOR PORTIONS OF STRUCTURES IN THE EMBANKMENT SHALL NOT BE CLASSIFIED.

SHEAR STUD CONNECTORS ON THE BEAM FLANGES SHALL BE PLACED IN FIELD AFTER THE STRUCTURAL STEEL HAS BEEN ERECTED AND THE DECK FORMS ARE IN PLACE. THE SHEAR CONNECTORS ARE INCLUDED IN THE QUANTITY OF "STRUCTURAL STEEL" NUMBER REQUIRED 3525, ESTIMATED WEIGHT 2940 LBS.

FIELD WELDING OF CONSTRUCTION ACCESSORIES TO THE BOTTOM FLANGES OR FOR A DISTANCE OF 1/4 OF THE SPAN EACH WAY FROM PIER SUPPORTS OR THE TOP FLANGES OF BEAMS OR GIRDERS WILL NOT BE PERMITTED. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.

Stiffeners of welded plate girder to be tight fit at the compression flange, and to be undercut 1/8" at the tension flange. Bearing stiffeners shall be milled on the bearing end of the stiffeners.

77c

(AS REVISED)

DESIGN STRESSES

f_c = 1400 p.s.i. Super and Sub.
f_s = 20,000 psi Reinforcement
f_s = 20,000 psi Struct. (A-36 Steel)
v_c = 75 p.s.i. Footings
n = 10
LOADING HS20 & 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.

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-3

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

SHEET 4 OF 163

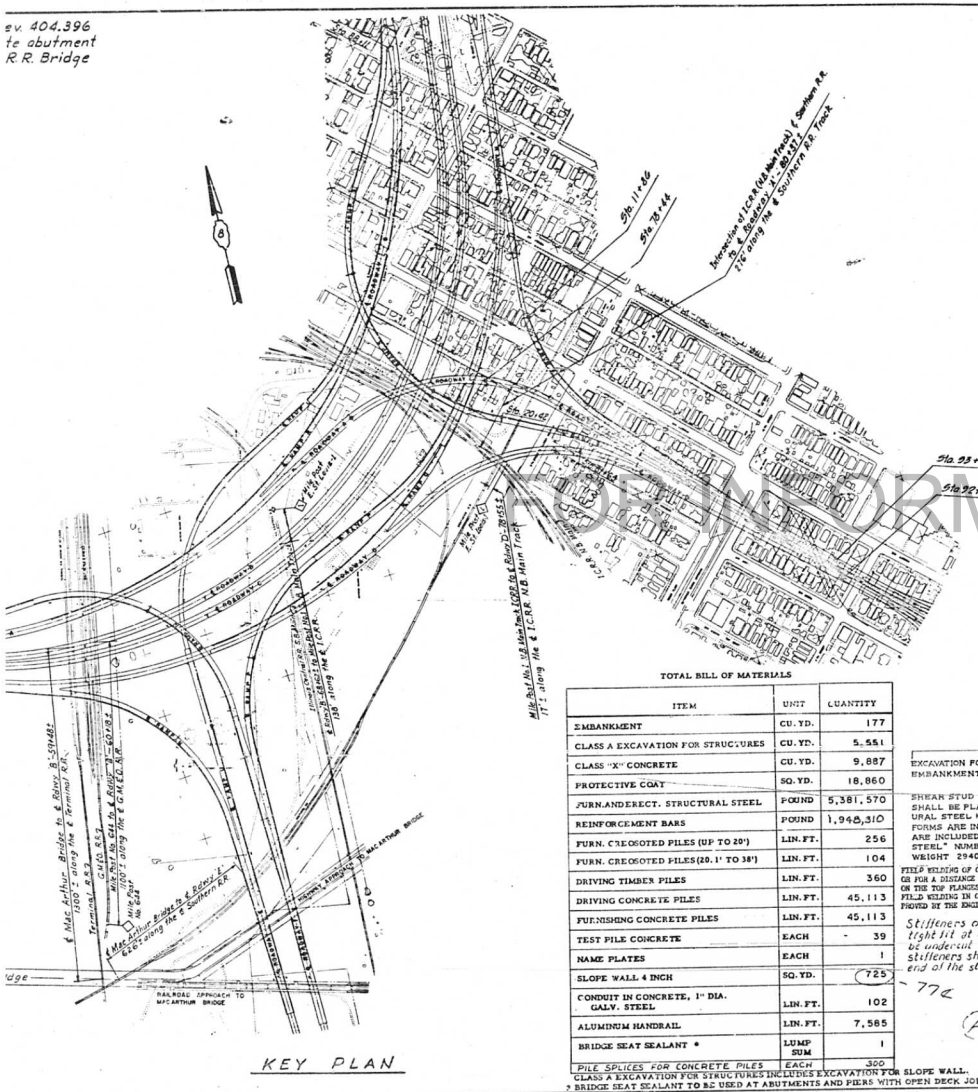
DESIGNED BY
DRAWN BY
CHECKED BY
APPROVED BY

Rev. 7-10-68 added 7 Cu. Yds. Class X Conc. and 660 lbs reinf. S.F.M.

Revised 5-18-67

ev. 404.396
te abutment
R.R. Bridge

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I-70	82-3HV8-3	ST. CLAIR	262	68A
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



TOTAL BILL OF MATERIALS

ITEM	UNIT	QUANTITY
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CLASS "X" CONCRETE	CU. YD.	9,887
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REINFORCEMENT BARS	POUND	1,948,310
FURN. CREOSOTED PILES (UP TO 20')	LIN. FT.	256
FURN. CREOSOTED PILES (20.1' TO 38')	LIN. FT.	104
DRIVING TIMBER PILES	LIN. FT.	360
DRIVING CONCRETE PILES	LIN. FT.	45,113
FURNISHING CONCRETE PILES	LIN. FT.	45,113
TEST PILE CONCRETE	EACH	39
NAME PLATES	EACH	1
SLOPE WALL 4 INCH	SQ. YD.	725
CONDUIT IN CONCRETE, 1" DIA. GALV. STEEL	LIN. FT.	102
ALUMINUM HANDRAIL	LIN. FT.	7,585
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PILE SPLICES FOR CONCRETE PILES	EACH	300

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GENERAL NOTES

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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 WELDING SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR WELDED HIGHWAY AND RAILWAY BRIDGES OF THE AMERICAN WELDING SOCIETY, AWS D2. 0-63.

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.

HIGH STRENGTH STEEL BOLT CONNECTIONS SHALL BE IN ACCORDANCE WITH ART. 54.5g OF THE STANDARD SPECS.

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 SURFACES 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 65,010 LBS.

EXCEPT AS OTHERWISE PROVIDED, ALL STRUCTURAL STEEL SHALL RECEIVE ONE SHOP COATS 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 END 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.

EXCAVATION FOR PORTIONS OF STRUCTURES IN THE EMBANKMENT SHALL NOT BE CLASSIFIED.

SHEAR STUD CONNECTORS ON THE BEAM FLANGES SHALL BE PLACED IN FIELD AFTER THE STRUCTURAL STEEL HAS BEEN ERECTED AND THE DECK FORMS ARE IN PLACE. THE SHEAR CONNECTORS ARE INCLUDED IN THE QUANTITY OF "STRUCTURAL STEEL" NUMBER REQUIRED 3525, ESTIMATED WEIGHT 2940 LBS.

FIELD WELDING OF CONSTRUCTION ACCESSORIES TO THE BOTTOM FLANGES OR FOR A DISTANCE OF ¼ OF THE SPAN EACH WAY FROM PIER SUPPORTS OR ON THE TOP FLANGES OF BEAMS OR GIRDERS WILL NOT BE PERMITTED, FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.

Stiffeners of welded plate girder to be tight fit at the compression flange, and to be undercut ⅛" at the tension flange. Bearing stiffeners shall be milled on the bearing end of the stiffeners.

77c

(AS REVISED)

DESIGN STRESSES

f_c = 1400 p.s.i. Super and Sub.
f_s = 20,000 psi Reinforcement
f_s = 20,000 psi Struct. (A-36 Steel)
V_c = 75 p.s.i. Footings
n = 10

LOADING HS20 & 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.

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 82-3HV8-3

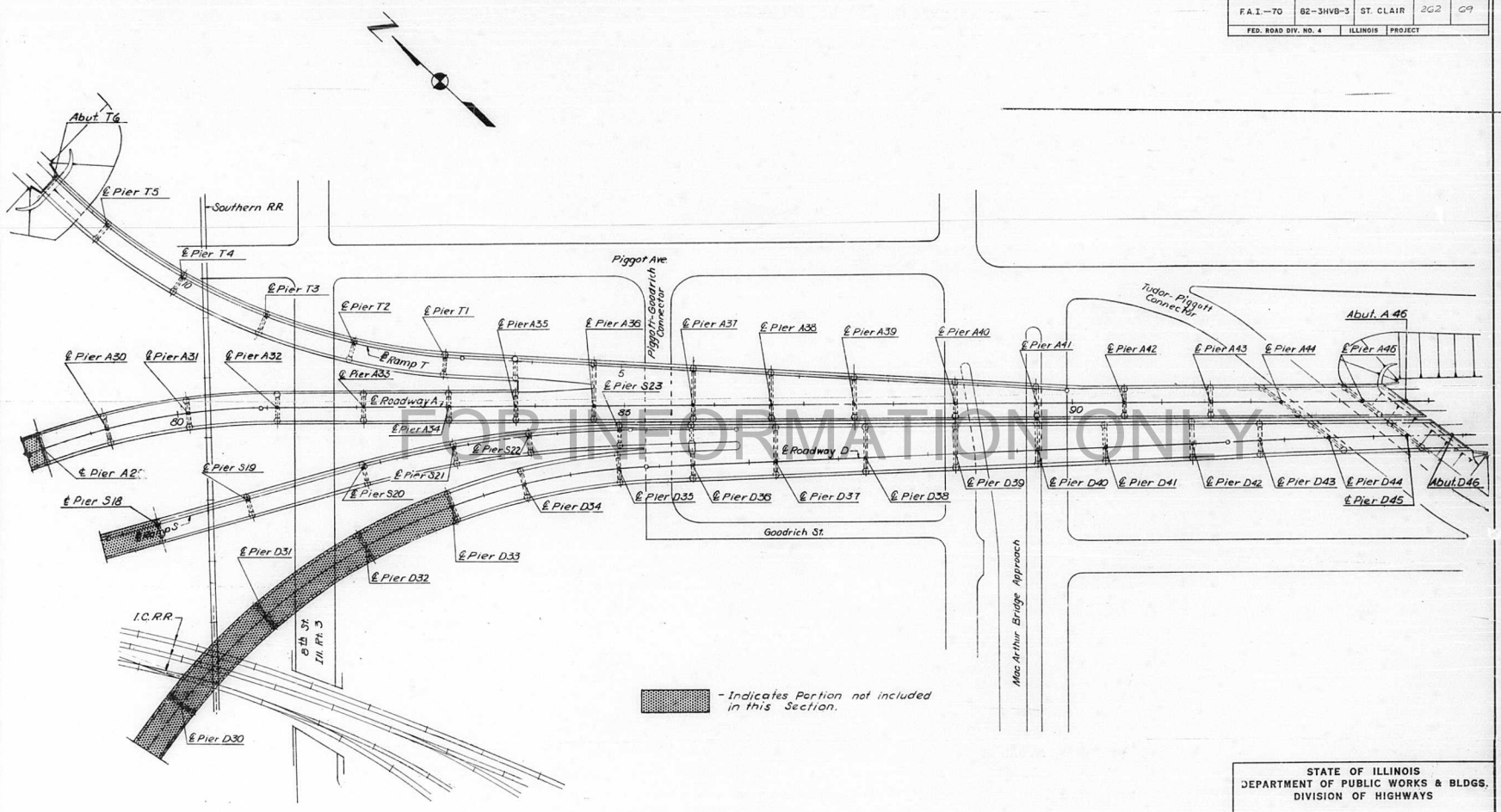
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET A 1 OF 163

Class X Conc. and 660 lbs reinf. S.F.M.

Revised 5-18-67

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82-3HVB-3	ST. CLAIR	202	69
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



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

GENERAL PLAN

POPLAR STREET BRIDGE APPROACHES

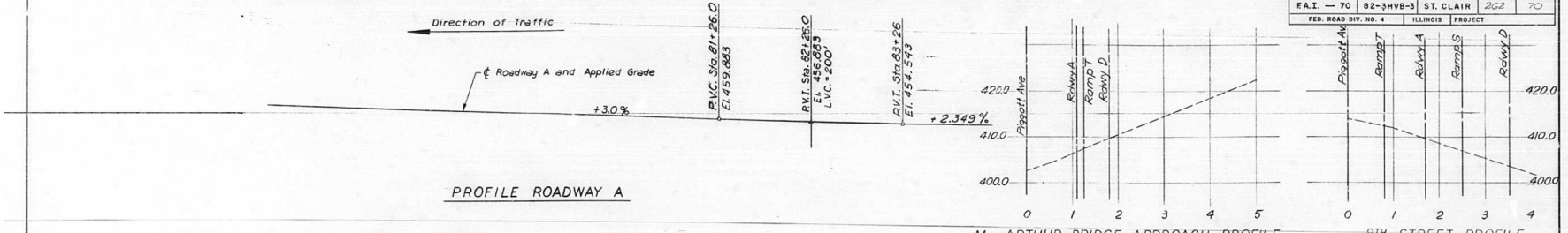
F. A. I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-3

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

SHEET 2 of 163

DESIGNED BY RMR
DRAWN BY ---
CHECKED BY A.C.
APPROVED BY K.A.

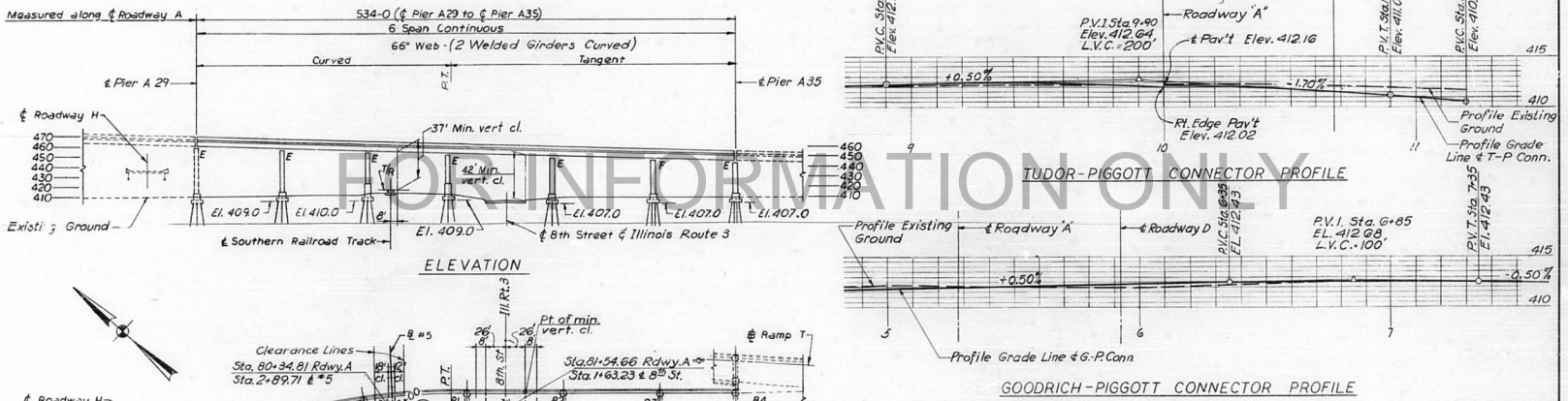
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. — 70	82-3HVB-3	ST. CLAIR	262	70
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	



PROFILE ROADWAY A

MAC ARTHUR BRIDGE APPROACH PROFILE

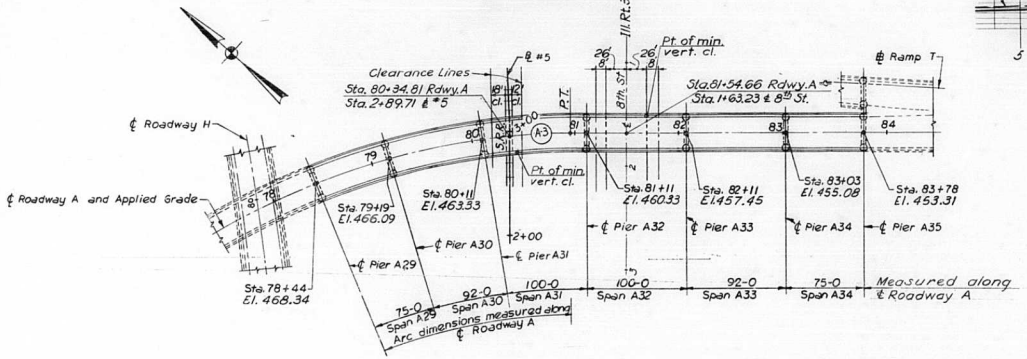
8TH STREET PROFILE



ELEVATION

TUDOR-PIGGOTT CONNECTOR PROFILE

GOODRICH-PIGGOTT CONNECTOR PROFILE



PLAN

STA.
BUILT 196 BY
STATE OF ILLINOIS
F.A.I. RT. 70 SEC. 82-3HVB-3
F.A. PROJ. I-70-1(80)
LOADING HS20 & ALT.

NAME PLATE

Note:
Name Plate to be placed at location shown on sheet No. 4
See Std. 2113-1 for additional information

Notes:
For Curve Data see Sh. No.
For Railroad Profiles see Sh. No. 133
Pier A29 by others

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

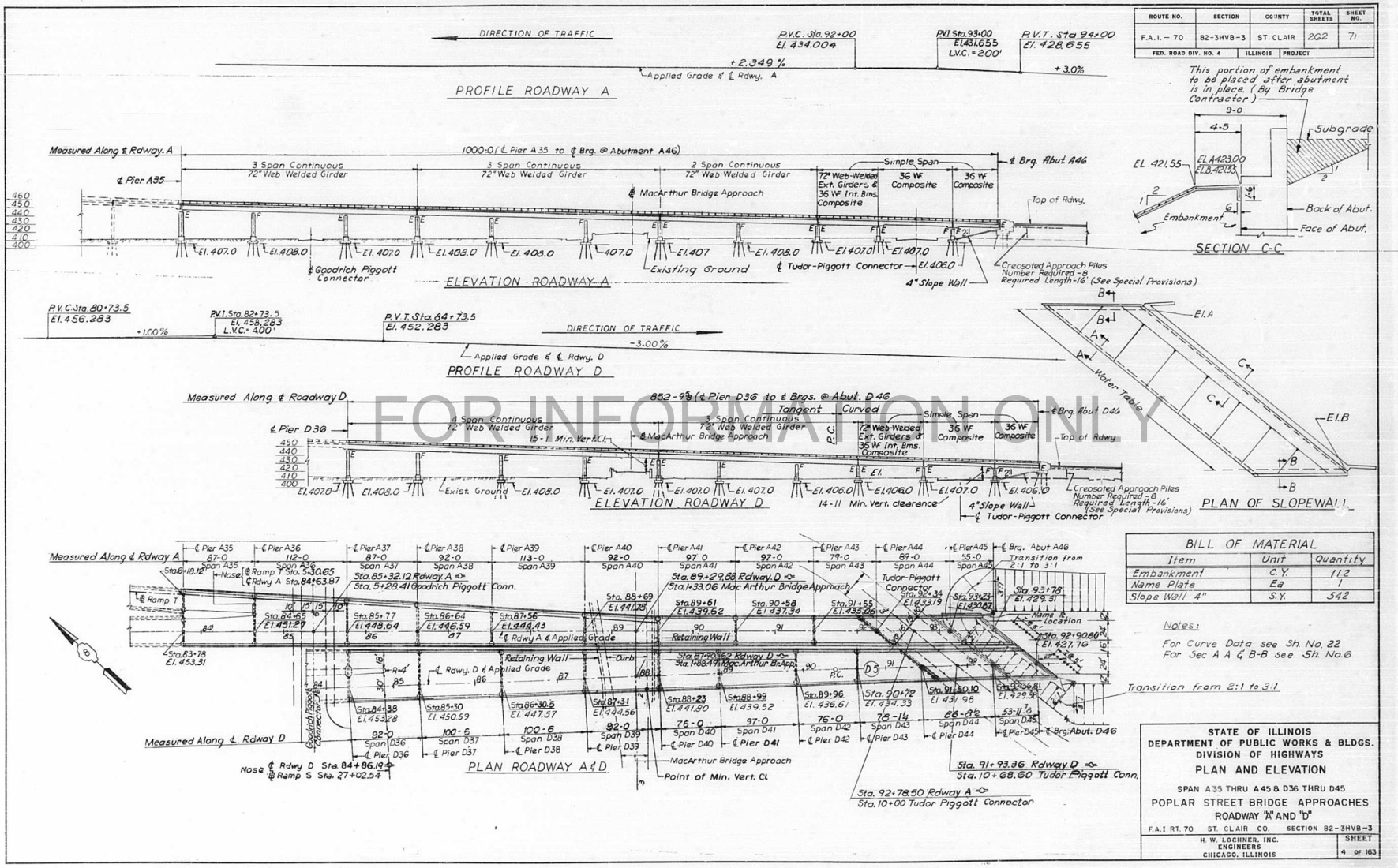
PLAN AND ELEVATION
SPANS A29 THRU A34
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

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

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

SHEET 3 OF 163

DESIGNED BY J.J.N.
DRAWN BY P.S.
CHECKED BY A.S.
APPROVED BY K.A.



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. – 70	82-3HVB-3	ST. CLAIR	262	71
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL		
Item	Unit	Quantity
Embankment	C.Y.	112
Name Plate	Ea	1
Slope Wall 4"	S.Y.	542

Notes:

For Curve Data see Sh. No. 22
For Sec A A & B-B see Sh. No. 6

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

PLAN AND ELEVATION

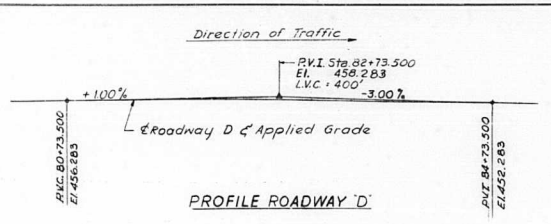
SPAN A35 THRU A45 & D36 THRU D45
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A" AND "D"

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

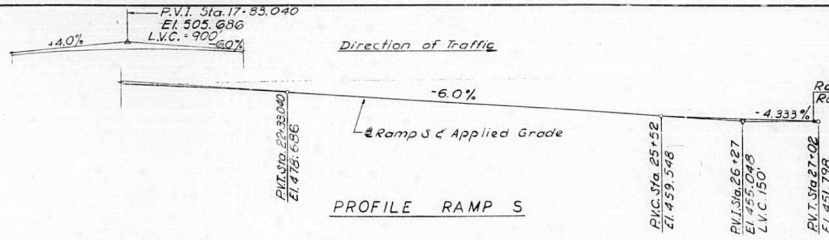
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 4 OF 163

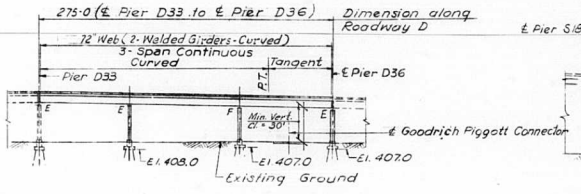
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. - 70	82-3HVB-3	ST. CLAIR	262	72
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



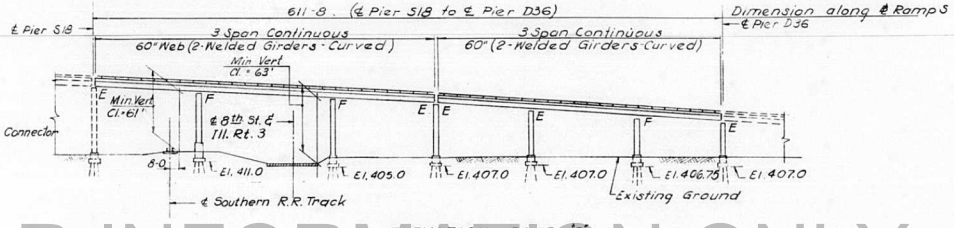
PROFILE ROADWAY 'D'



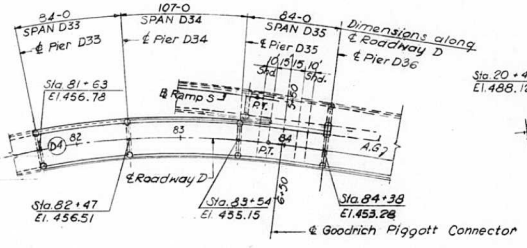
PROFILE RAMP S



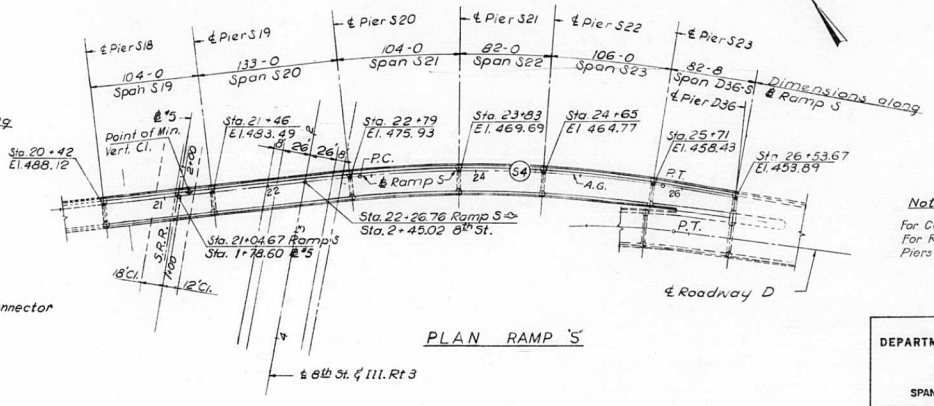
ELEVATION ROADWAY 'D'



ELEVATION RAMP 'S'



PLAN ROADWAY 'D'



PLAN RAMP 'S'

Notes:

For Curve Data see Sh. No. 22
For Railroad Profile see Sh. No. 133
Piers D33 & S18 by others

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

PLAN AND ELEVATION

SPANS D33 THRU D36 & S19 THRU D36S

POPLAR STREET BRIDGE APPROACHES

ROADWAY 'D' & RAMP 'S'

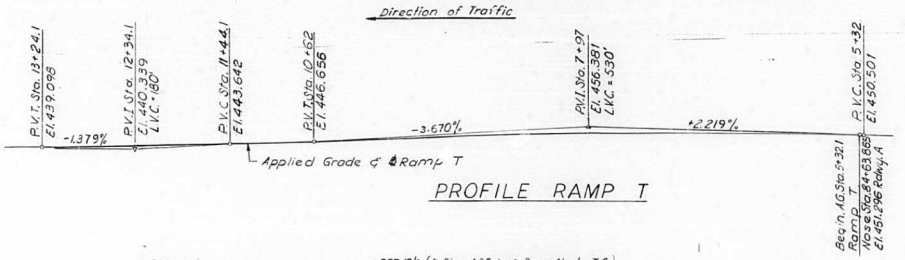
F.A.I. Rt. 70 ST. CLAIR SECTION 82-3HVB-3

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

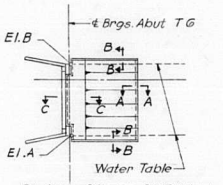
SHEET 5 OF 163

DESIGNED BY T.J.N.
DRAWN BY I.M.
CHECKED BY A.C.
APPROVED BY K.A.

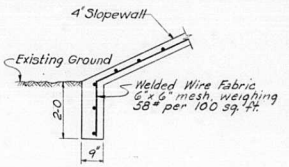
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. — 70	82-3HVB-3	ST. CLAIR	202	73
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



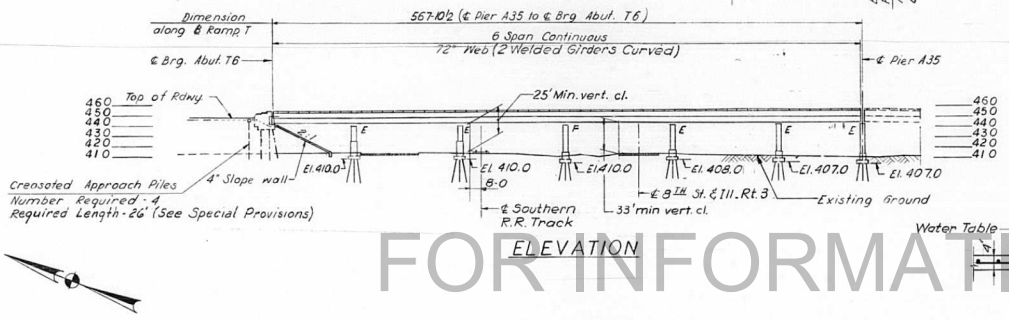
PROFILE RAMP T



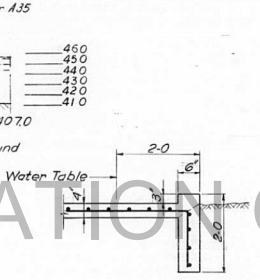
PLAN OF SLOPEWALL



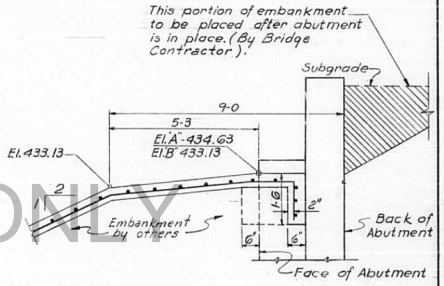
SECTION A-A



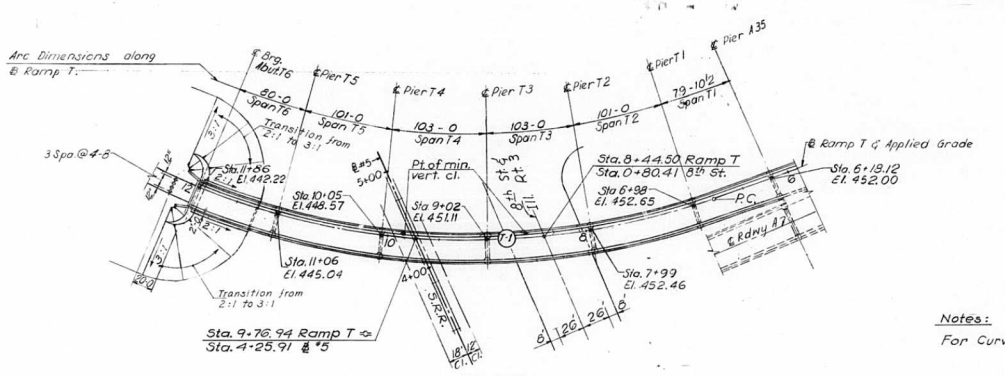
ELEVATION



SECTION B-B



SECTION C-C



PLAN

BILL OF MATERIAL		
Item	Unit	Quantity
Embankment	C.Y.	65
Slope Wall 4"	S.Y.	232

Notes:

For Curve Data see Sh. No.

DESIGNED BY JJK
DRAWN BY I.A.M.
CHECKED BY A.S.
APPROVED BY K.A.

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

PLAN AND ELEVATION
SPANS T1 THRU T6
POPLAR STREET BRIDGE APPROACHES
RAMP "T"

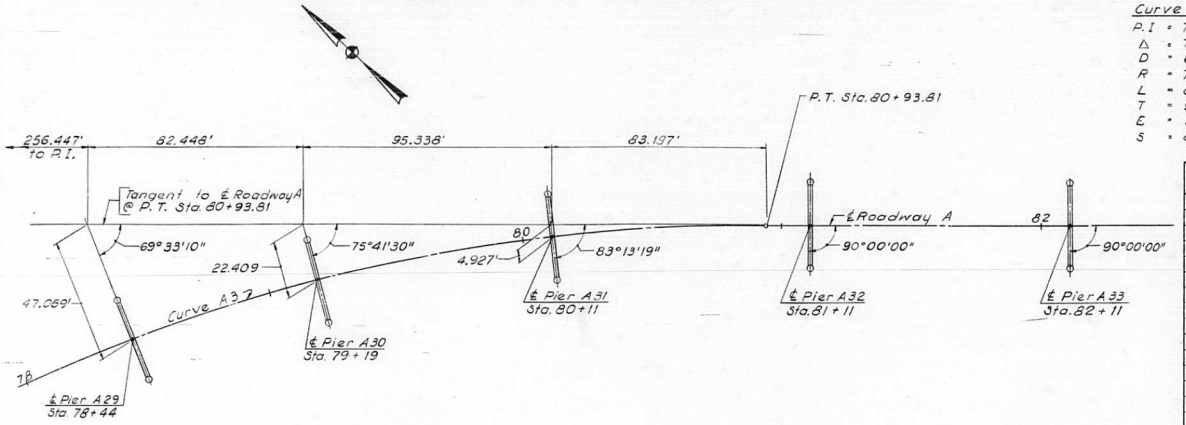
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-3

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

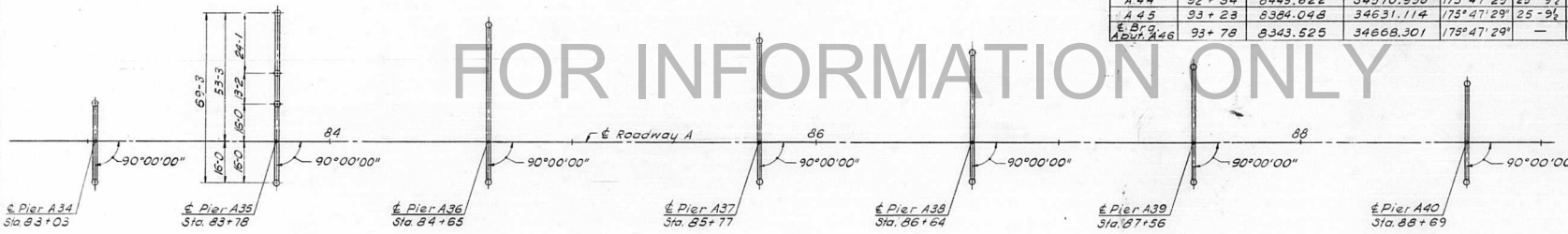
SHEET 6 OF 163

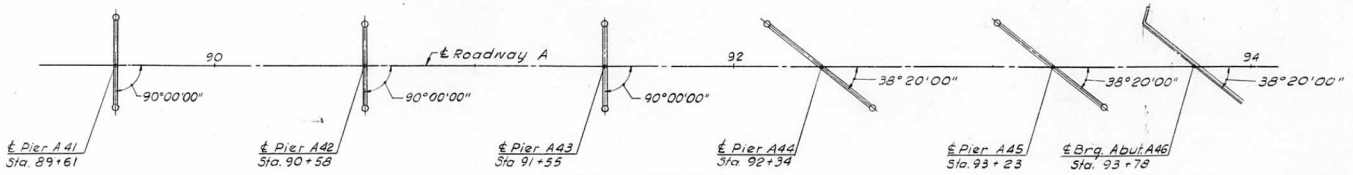
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I — 70	82-3HVB-3	ST. CLAIR	262	74
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

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%



Pier No.	℄ Roadway A Sta.	N. Coordinate	E. Coordinate	Azimuth	Right Col Offset	Left Col Offset
A29	78+44	9440.048	33602.186	27°00'39"	16-0	16-0
A30	79+19	9402.475	33667.054	33°08'59"	16-0	16-0
A31	80+11	9347.257	33740.556	40°40'48"	16-0	16-0
A32	81+11	9277.029	33811.645	47°27'29"	16 0	16-0
A33	82+11	9203.351	33879.258	↑	16 0	16-0
A34	83+03	9135.567	33941.462		16 0	16-0
A35	83+78	9080.308	33992.171		16 0	53-3
A36	84+65	9016.208	34050.995		16 0	48-0
A37	85+77	8933.688	34126.721		16 0	41-3
A38	86+64	8869.588	34185.544		16 0	36-0
A39	87+56	8801.804	34247.748		16 0	30-5
A40	88+69	8718.548	34324.151		16 0	23-7
A41	89+61	8650.764	34386.355		16 0	18-1
A42	90+58	8579.296	34451.940		16 0	16-0
A43	91+55	8507.828	34517.524	47°27'29"	16-0	16-0
A44	92+34	8449.622	34570.938	175°47'29"	25-9½	25-9½
A45	93+23	8384.048	34631.114	175°47'29"	25-9½	25-9½
℄ Brg. Abut. A46	93+78	8343.525	34668.301	175°47'29"	—	—





DESIGNED BY J.J.N
DRAWN BY I.M.
CHECKED BY S.A.
APPROVED BY K.A

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

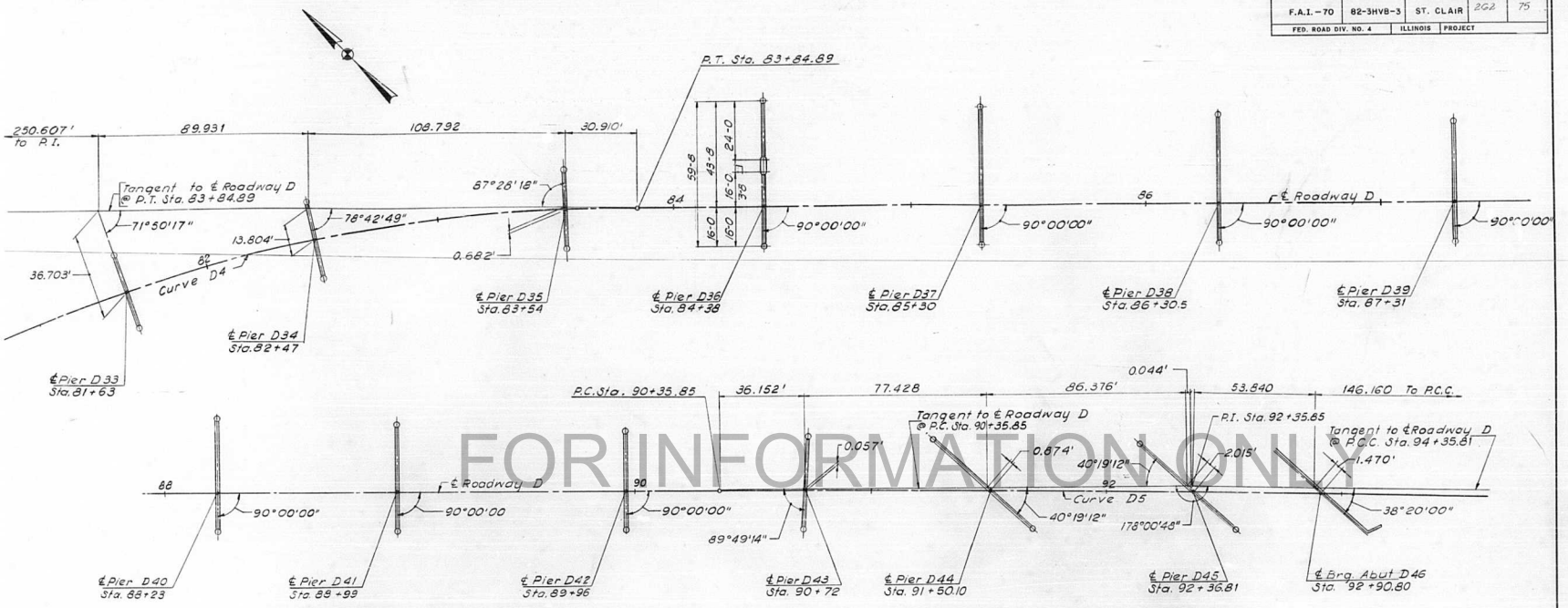
GEOMETRIC LAYOUT
PIER A 29 TO ABUTMENT A 46
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

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

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

SHEET 7 of 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	75
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



Curve D4
PI = 80+23.30
Δ = 68°54'17"
D = 8°11'06"
R = 700.00'
L = 841.83'
T = 480.24'
E = 148.90
S = 8%

Pier No.	℄ Roadway D Sta.	N. Coordinate	E. Coordinate	Azimuth	Right Col. Offset	Left Col. Offset
D 33	81+63	9056.620	33862.008	27°18'34"	16-0	16-0
D 34	82+47	9013.701	33934.157	34°11'05"	16-0	16-0
D 35	83+54	8947.063	34017.740	42°56'35"	16-0	16-0
D 36	84+38	8887.665	34077.125	45°28'17"	16-0	43-8
D 37	85+30	8822.078	34141.642	↓	16-0	40-6
D 38	86+30.5	8750.432	34212.119		16-0	37-0
D 39	87+31	8678.785	34282.596		16-0	33-6
D 40	88+23	8613.198	34347.112		16-0	30-4
D 41	88+99	8559.018	34400.409	↓	16-0	27-8
D 42	89+96	8489.867	34468.431	45°28'17"	16-0	24-4
D 43	90+72	8435.646	34521.688	45°39'03"	16-0	21-9
D 44	91+50.1	8379.615	34576.090	175°47'29"	24-3	30-8
D 45	92+36.81	8316.971	34636.050	175°47'29"	23-10	27-9
℄ Brg. Abut. D46	92+90.80	8277.742	34673.142	175°47'29"	—	—

Curve D5
P.I = 92+35.85
Δ = 1°59'12"
D = 0°29'48"
R = 11,535.00'
L = 399.96'
T = 200.00'
E = 1.73'
S = Normal Crown

ED BY J.T.N
BY I.M.
D BY S.A.
IED BY K.A

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

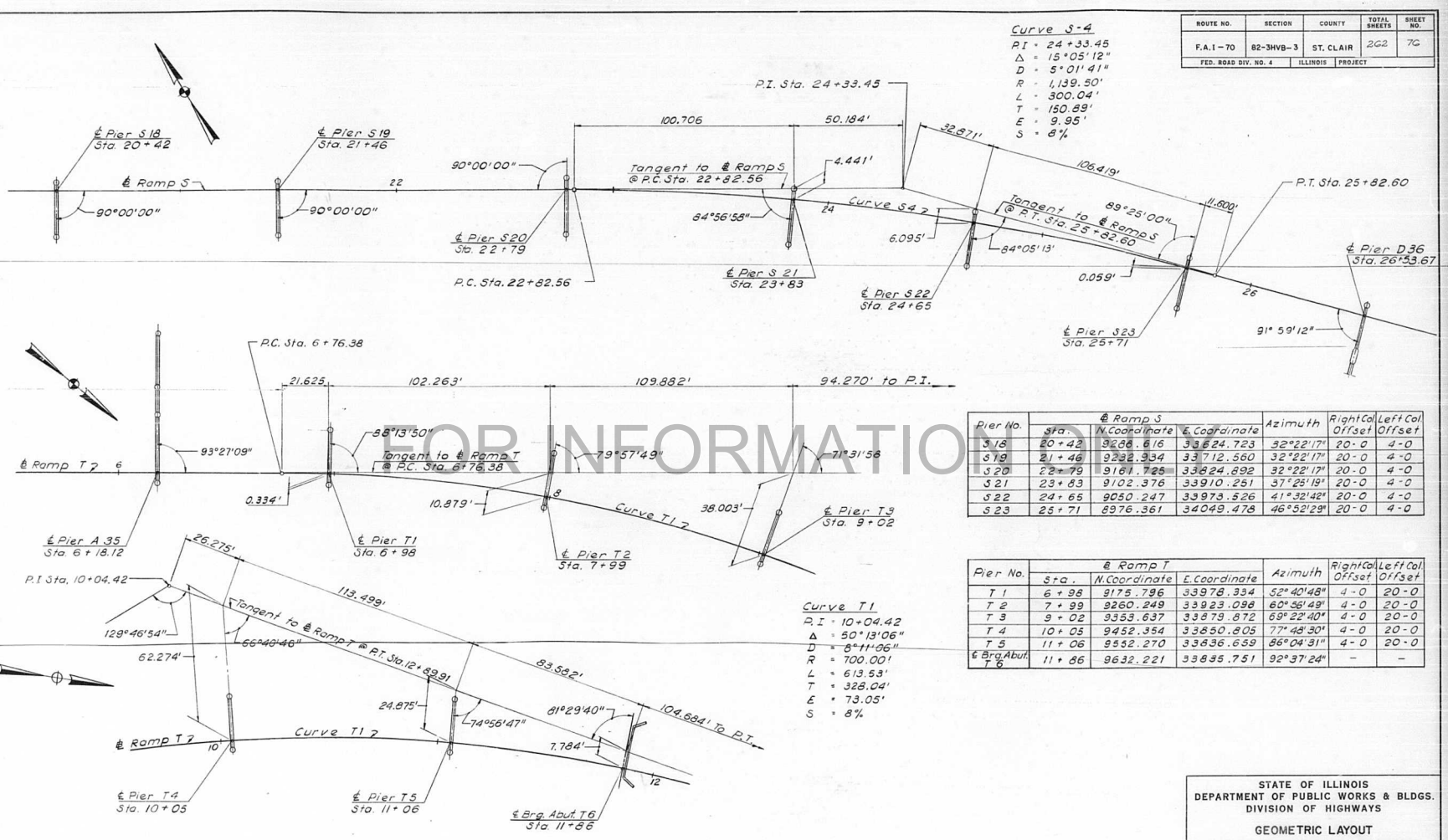
GEOMETRIC LAYOUT
PIER D33 TO ABUTMENT D36
POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

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

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

SHEET 8 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I – 70	82-3HVB-3	ST. CLAIR	262	76
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



Pier No.	℄ Ramp S			Azimuth	Right Col Offset	Left Col Offset
	Sta.	N. Coordinate	E. Coordinate			
S 18	20+42	9288.616	33624.723	32°22'17"	20-0	4-0
S 19	21+46	9232.934	33712.560	32°22'17"	20-0	4-0
S 20	22+79	9161.725	33824.892	32°22'17"	20-0	4-0
S 21	23+83	9102.376	33910.251	37°25'19"	20-0	4-0
S 22	24+65	9050.247	33973.526	41°32'42"	20-0	4-0
S 23	25+71	8976.361	34049.478	46°52'29"	20-0	4-0

Pier No.	℄ Ramp T			Azimuth	Right Col Offset	Left Col Offset
	Sta.	N. Coordinate	E. Coordinate			
T 1	6+98	9175.796	33978.334	52°40'48"	4-0	20-0
T 2	7+99	9260.249	33923.098	60°36'49"	4-0	20-0
T 3	9+02	9353.637	33879.872	69°22'40"	4-0	20-0
T 4	10+05	9452.354	33850.805	77°48'30"	4-0	20-0
T 5	11+06	9552.270	33836.659	86°04'31"	4-0	20-0
℄ Brg Abut. T6	11+86	9632.221	33835.751	92°37'24"	–	–

Curve T1
P.I. = 10+04.42
Δ = 50°13'06"
D = 8°11'06"
R = 700.00'
L = 613.53'
T = 328.04'
E = 73.05'
S = 8%

DESIGNED BY T.J.N.
DRAWN BY I.M.
CHECKED BY S.A.
APPROVED BY K.A.

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

GEOMETRIC LAYOUT

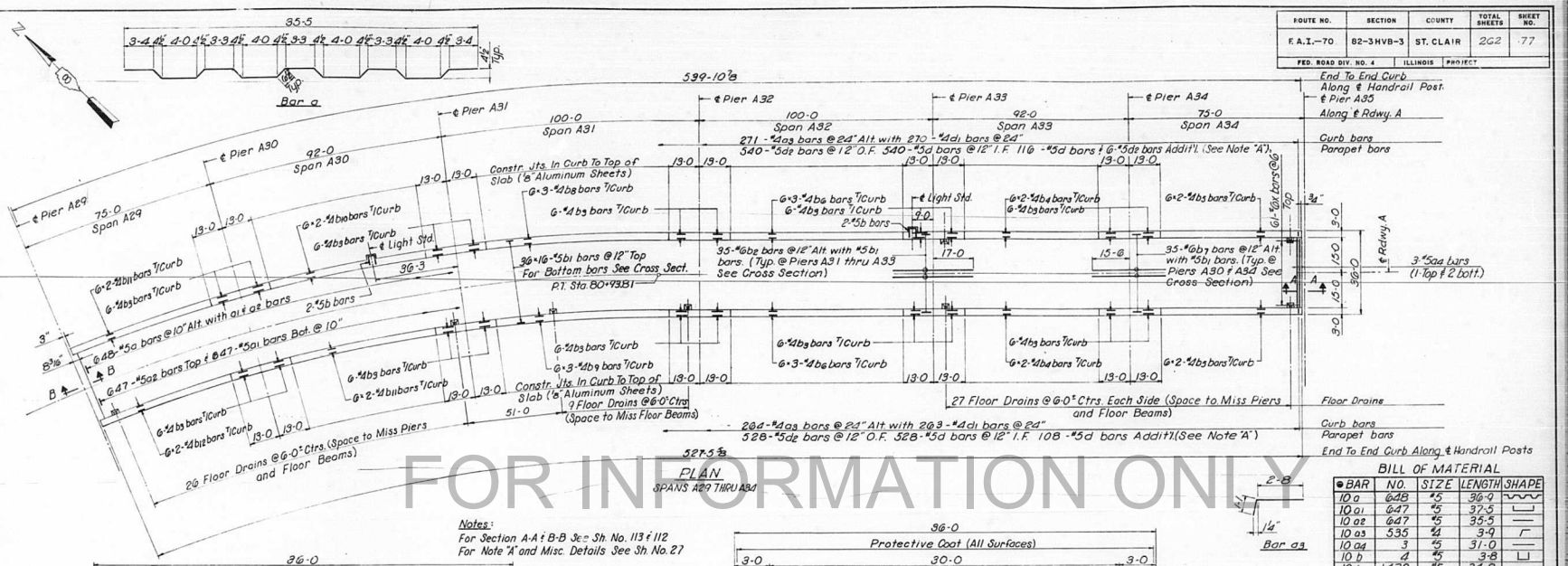
PIER S18 TO D36 AND PIER A35 TO ABUTMENT T6
POPLAR STREET BRIDGE APPROACHES
RAMPS "S" AND "T"

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

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

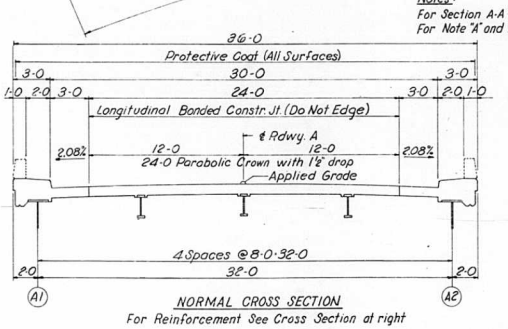
SHEET 9 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82-3HVB-3	ST. CLAIR	262	177
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

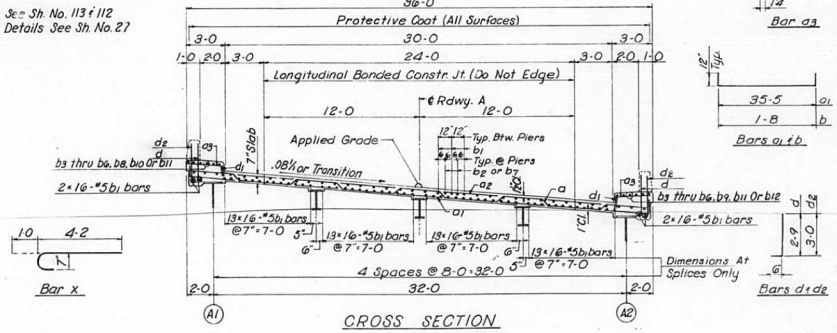


PLAN
SPANS A29 THRU A34

Notes:
For Section A-A ℄ B-B See Sh. No. 113 ℄ 112
For Note "A" and Misc. Details See Sh. No. 27

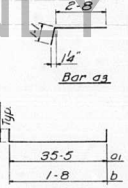


NORMAL CROSS SECTION
For Reinforcement See Cross Section at right



CROSS SECTION
FULL SUPER OR TRANSITION

Bar x

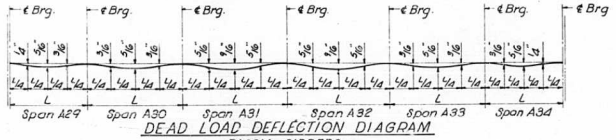


Bars d1 ℄ d2

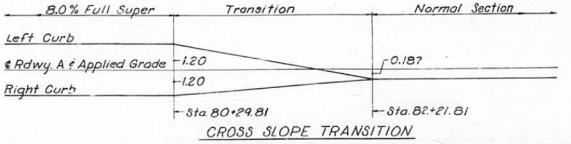
BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
10 a	648	#5	36-9	
10 a1	647	#5	37-5	
10 a2	647	#5	35-5	
10 a3	535	#4	3-9	
10 a4	3	#5	31-0	
10 b	4	#5	3-8	
10 b1	1472	#5	34-8	
10 b2	105	#6	34-0	
10 b3	120	#4	12-9	
10 b4	24	#4	33-6	
10 b5	24	#4	31-4	
10 b6	36	#4	25-3	
10 b7	70	#6	31-0	
10 b8	18	#4	26-0	
10 b9	18	#4	24-7	
10 b10	12	#4	34-8	
10 b11	24	#4	32-3	
10 b12	12	#4	30-5	
10 x	61	#6	5-2	
10 d	1292	#5	3-3	
10 d1	533	#4	1-1	
10 d2	1074	#5	3-6	
See Note "X" Sh. No. 27				

ITEM	UNIT	TOTAL
Class "X" Concrete	CU. Yds.	542.8
Reinforcement Bars	Lbs.	150,760
Protective Coat	Sq. Yds.	2372



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



CROSS SLOPE TRANSITION

DESIGNED BY A. T.
DRAWN BY HAMILTON
CHECKED BY E.W.H. W.J.K.
APPROVED BY K. A.

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

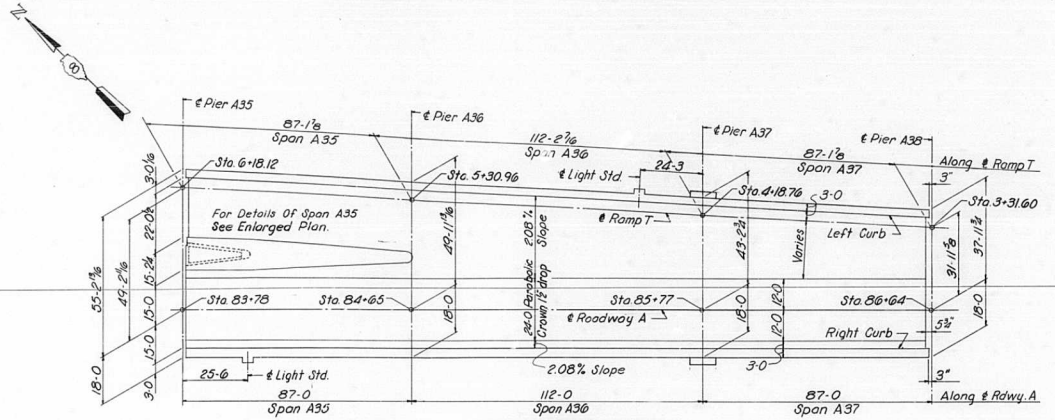
SLAB
SPANS A29 THRU A34
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

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

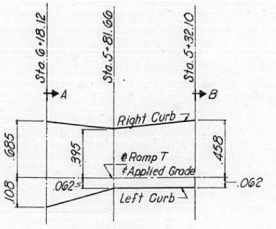
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 10 OF 163

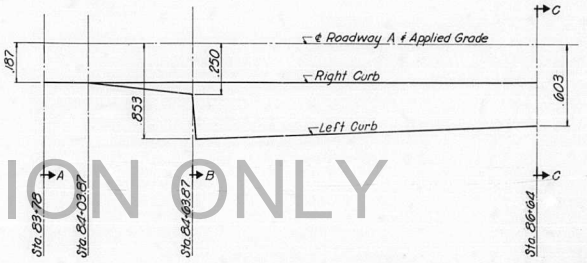
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.–70	82–3HVB–3	ST. CLAIR	262	78
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



GEOMETRIC LAYOUT
Spans A35 thru A37

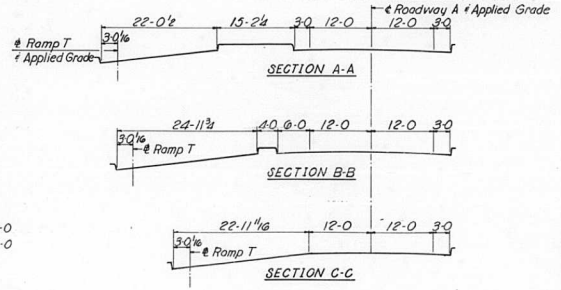


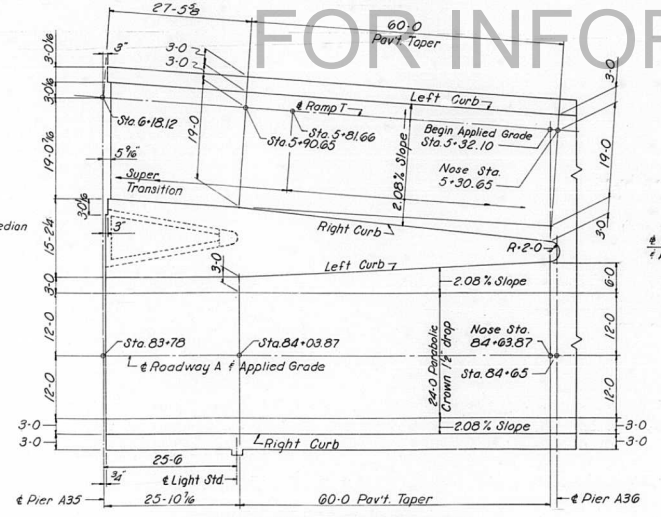
RAMP T



ROADWAY A

CROSS SLOPE TRANSITIONS





ENLARGED PLAN SPAN A35

Note
For Details of Parapet Wall on Median see Detail 'A' Sh. No. 29

DESIGNED BY A.T.
DRAWN BY HAMILTON
CHECKED BY E.W. & M.J.F.
APPROVED BY K.A.

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

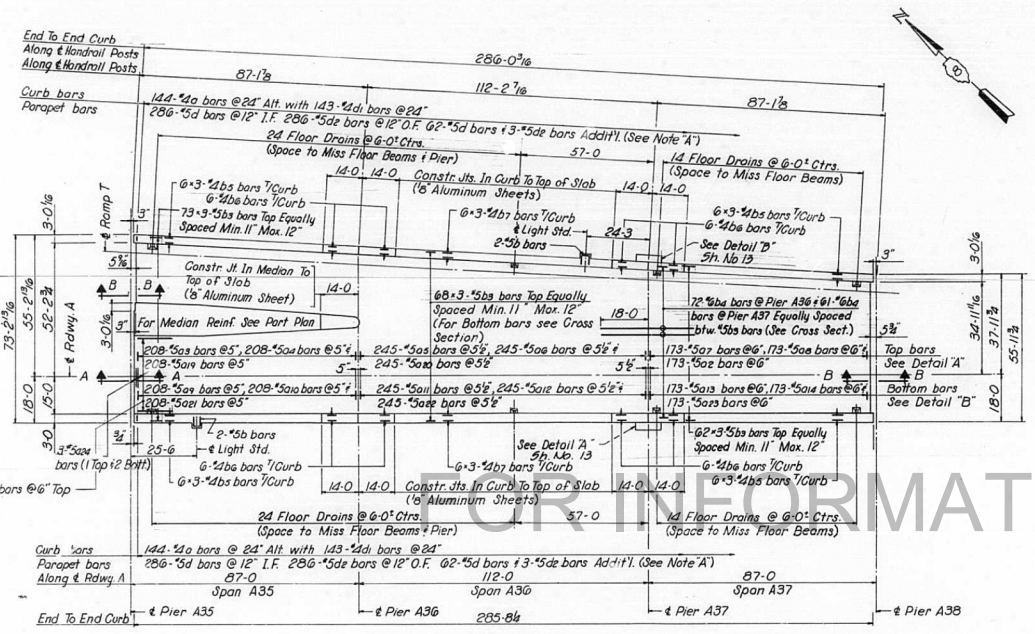
DIMENSION PLAN
SPANS A35 THRU A37
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

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

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

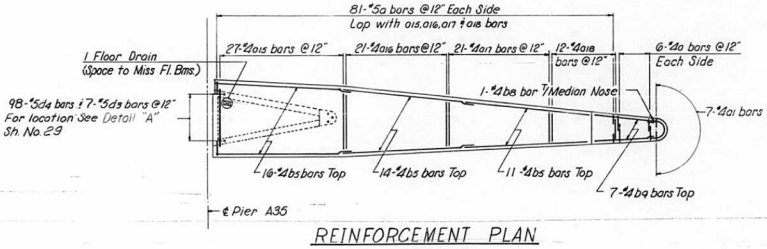
SHEET
11 of 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	79
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

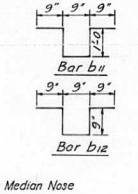


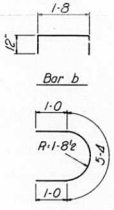
PLAN

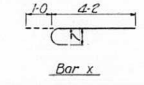
Spans A35 thru A37

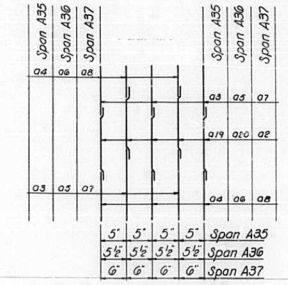


REINFORCEMENT PLAN MEDIAN



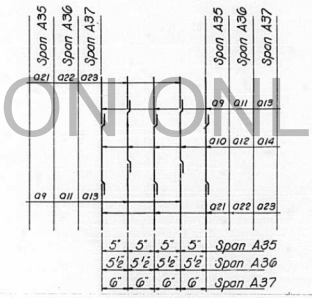






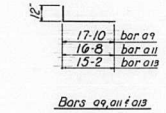
DETAIL "A"

Arrangement of Main Reinforcing Bars in Top of Slab. Reinforcing is perpendicular to the ℄ of Roadway A.

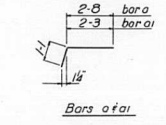


DETAIL "B"

Arrangement of Main Reinforcing Bars in Bottom of Slab. Reinforcing is perpendicular to the ℄ of Roadway A.



Bars a9, a11 & a13



Bars a & a1

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
12a	462	#4	3-9	
12a1	7	#4	3-4	
12a2	173	#5	21-0	
12a3	208	#5	29-3	
12a4	208	#5	21-7	
12a5	245	#5	27-3	
12a6	245	#5	20-2	
12a7	173	#5	24-8	
12a8	173	#5	18-4	
12a9	208	#5	18-10	
12a10	208	#5	24-8	
12a11	245	#5	17-8	
12a12	245	#5	22-11	
12a13	173	#5	16-2	
12a14	173	#5	20-8	
12a15	27	#4	11-3	
12a16	21	#4	9-3	
12a17	21	#4	6-3	
12a18	50	#4	3-0	
12a19	208	#5	25-0	
12a20	245	#5	23-3	
12a21	208	#5	33-4	
12a22	245	#5	30-11	
12a23	173	#5	27-11	
12a24	3	#5	31-0	
12a25	38	#5	7-2	
12b	4	#5	37-8	
12b1	540	#5	29-8	
12b2	360	#5	29-5	
12b3	645	#5	32-9	
12b4	133	#6	36-0	
12b5	113	#4	24-11	
12b6	48	#4	13-4	
12b7	30	#4	28-8	
12b8	1	#4	3-4	
12b9	7	#4	12-10	
12b10	20	#5	9-3	
12b11	855	#4	4-3	
12b12	855	#4	3-9	
12b13	108	#4	32-5	
12d	696	#5	3-3	
12d1	286	#4	1-1	
12d2	578	#5	3-6	
12d3	9	#5	4-3	
12d4	98	#5	3-1	
12x	61	#6	2-2	
See Note "X" Sh. No. 27				

ITEM	UNIT	TOTAL
Class "X" Concrete	Cu. Yds.	502
Reinforcement Bars	Lbs.	167,430
Protective Coat	Sq. Yds.	2,276

Notes:

For Dimension Plan See Sh. No. 11
For Cross Sections See Sh. No. 13
For Section A-A & B-B See Sh. No. 113 & 112
For Note "A" and Misc. Details See Sh. No. 27
For Dead Load Deflection Diagram See Sh. No. 13

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

SLAB

SPANS A35 THRU A37

POPLAR STREET BRIDGE APPROACHES

ROADWAY "A"

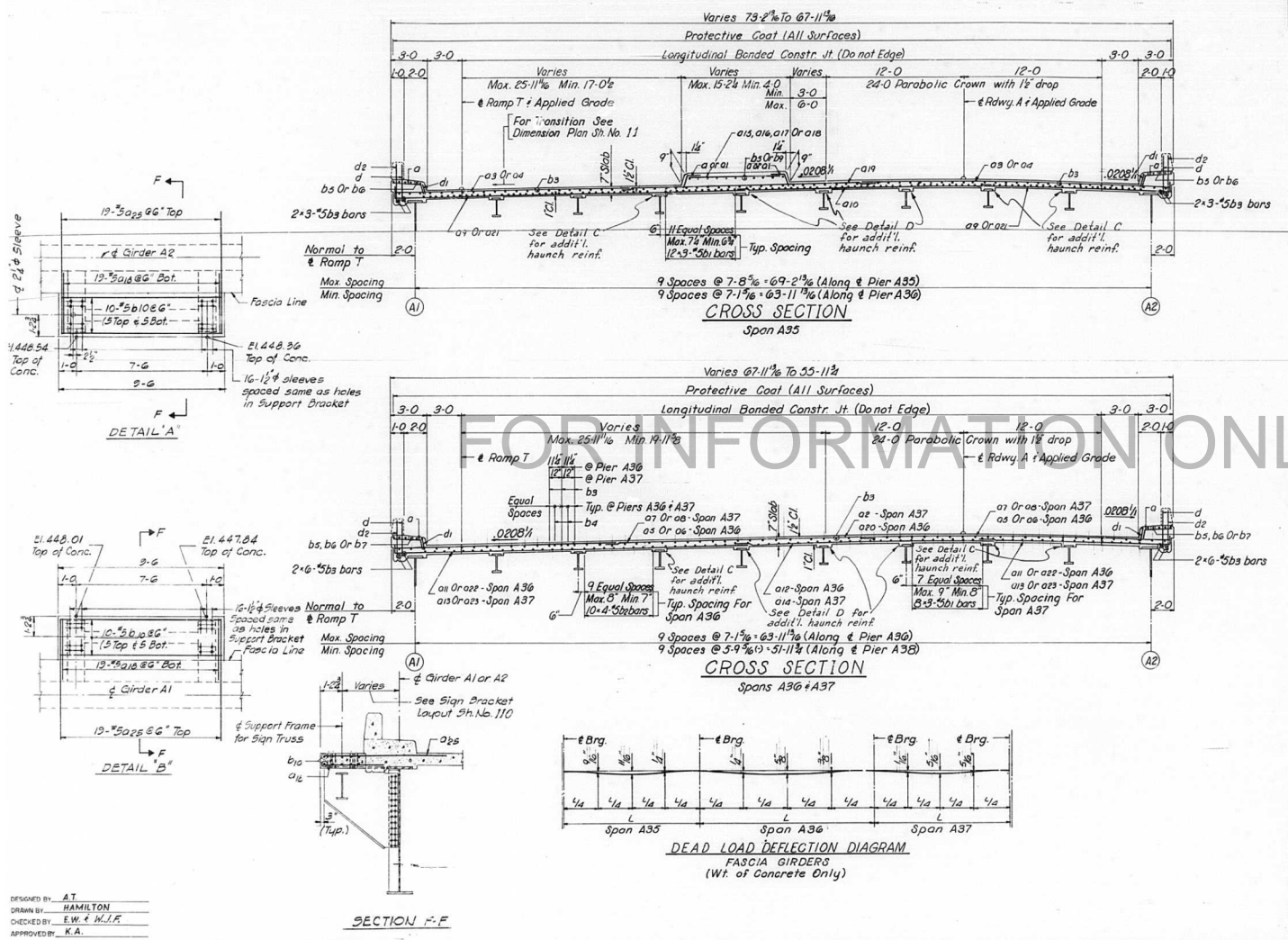
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-3

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

SHEET 12 OF 163

DESIGNED BY	A.T.
DRAWN BY	HAMILTON
CHECKED BY	E.W. & W.J.F.
APPROVED BY	K.A.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I.—70	82-3HVB-3	ST. CLAIR	262	80
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	



Note: Details C & D show additional haunch reinforcement within limits shown and at stringers indicated in Cross Section. Stirrup bars may be placed on slant to provide 1½" min. clearance on top of slab.

Notes:
For Notes and Location of Cross Sections See Sh. No. 12
The cost of Sleeves is incidental to the cost of concrete.

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

SLAB

SPANS A35 THRU A37

POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

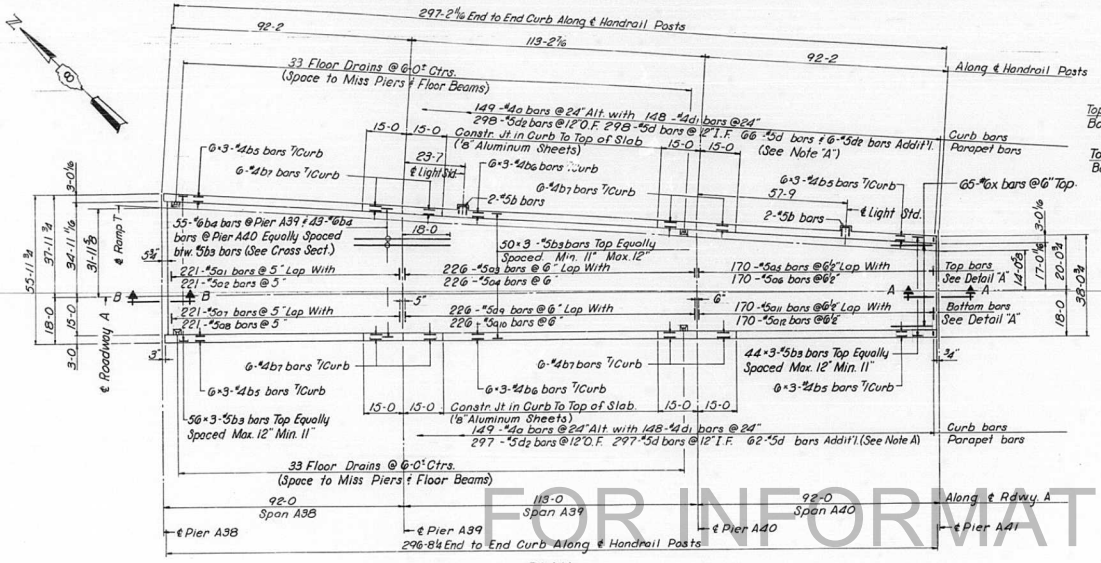
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-3

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

SHEET 13 of 163

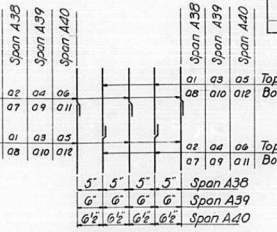
DESIGNED BY A.T.
DRAWN BY HAMILTON
CHECKED BY E.W. & W.J.F.
APPROVED BY K.A.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	202	81
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



PLAN

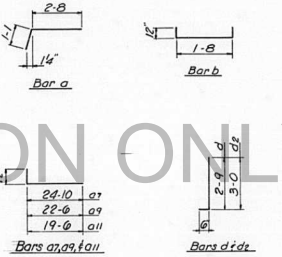
Spans A38 thru A40

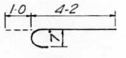


DETAIL "A"

Arrangement of Main Reinforcement

Reinforcement is Perpendicular to the ℄ of Roadway A.



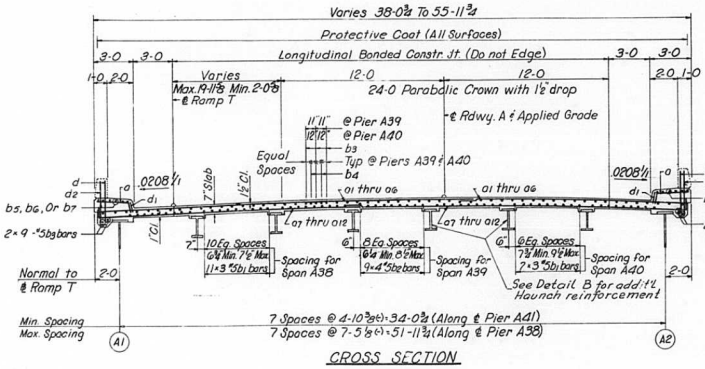


BILL OF MATERIAL

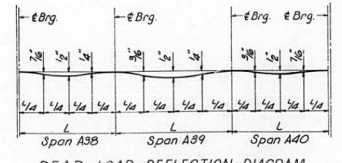
● BAR	NO.	SIZE	LENGTH	SHAPE
14 a	298	#4	3-9	
14 a1	221	#5	36-0	
14 a2	221	#5	21-?	
14 a3	226	#5	32-1	
14 a4	226	#5	19-2	
14 a5	170	#5	28-0	
14 a6	170	#5	16-9	
14 a7	221	#5	25-10	
14 a8	221	#5	32-4	
14 a9	226	#5	29-6	
14 a10	226	#5	29-0	
14 a11	170	#5	20-6	
14 a12	170	#5	25-3	
14 b	4	#5	3-8	
14 b1	378	#5	31-4	
14 b2	252	#5	29-8	
14 b3	456	#5	33-11	
14 b4	98	#6	36-0	
14 b5	72	#4	26-3	
14 b6	36	#4	28-4	
14 b7	48	#4	14-9	
14 b8	408	#4	3-11	
14 b9	24	#4	35-0	
14 d	723	#5	3-3	
14 d1	296	#4	1-1	
14 d2	601	#5	3-6	
14 x	65	#6	5-2	

● See Note "X" Sh. No. 27

ITEM	UNIT	TOTAL
Class "X" Concrete	Cu. Yds.	379.5
Reinforcement Bars	Lbs.	119,960
Protective Coat	Sq. Yds.	1622



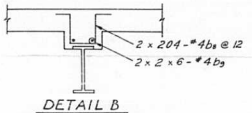
CROSS SECTION



DEAD LOAD DEFLECTION DIAGRAM

FASCIA GIRDERS

(Wt. of Concrete Only)



DETAIL B

From Pier A38 to Pier A40

Note: Detail B shows additional haunch reinforcement within limits shown and at stringers indicated in Cross Section. Stirrup bars may be placed on slant to provide 1½" min. clearance on top of slab.

Notes:

For Section A-A & B-B See Sh. No. 113 & 112

For Note "A" and Misc. Details See Sh. No. 27

DESIGNED BY A.J.
DRAWN BY HAMILTON
CHECKED BY E.W. & W.J.F.
APPROVED BY K.A.

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

SLAB

SPANS A38 THRU A40

POPLAR STREET BRIDGE APPROACHES

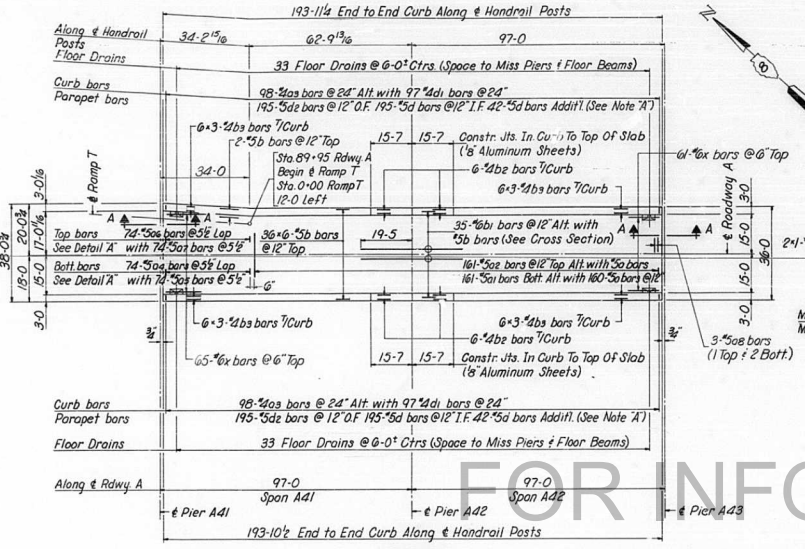
ROADWAY "A"

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

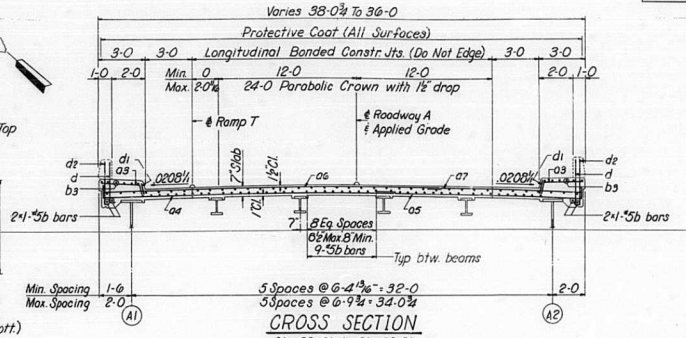
H. W. LOCHNER, INC. ENGINEERS CHICAGO, ILLINOIS

SHEET 14 OF 163

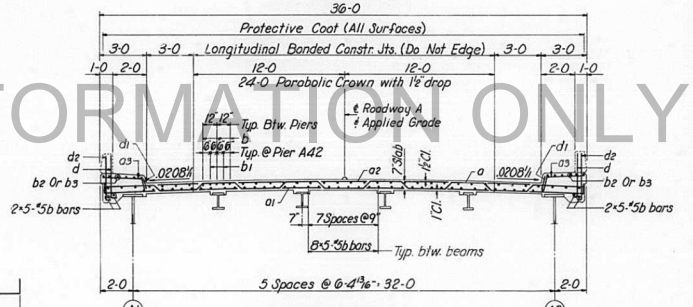
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.- 70	82-3HVB-3	ST. CLAIR	2G2	82
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



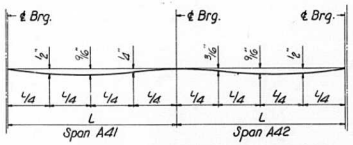
PLAN
Span A41 ℄ A42



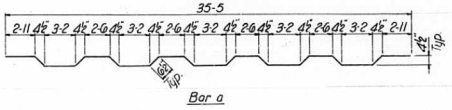
CROSS SECTION
Sta. 89+61 to Sta. 89+95

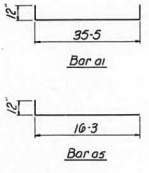


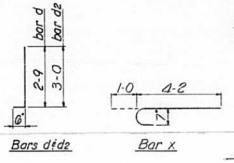
CROSS SECTION
Sta. 89+95 to Sta. 91+55

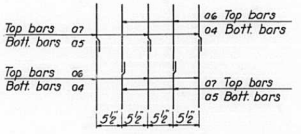


DEAD LOAD DEFLECTION DIAGRAM
FASCIA GIRDERS
(Wt. Of Concrete Only)









DETAIL "A"
Arrangement of Main Reinforcement from Sta. 89+61 to Sta. 89+95. Reinforcement is Perpendicular to the ℄ of Roadway A.

BILL OF MATERIAL

● BAR	NO.	SIZE	LENGTH	SHAPE
15 a	160	#5	37-1	
15 a1	161	#5	37-5	
15 a2	161	#5	35-5	
15 a3	196	#4	3-9	
15 a4	74	#5	23-0	
15 a5	74	#5	17-3	
15 a6	74	#5	26-5	
15 a7	74	#5	12-10	
15 a8	3	#5	31-0	
15 b	487	#5	33-1	
15 b1	35	#6	38-10	
15 b2	24	#4	15-3	
15 b3	12	#4	27-9	
15 d	474	#5	3-3	
15 d1	194	#4	1-1	
15 d2	390	#5	3-6	
15 x	126	#6	5-2	
● See Note "X" Sh. No. 27				

ITEM	UNIT	TOTAL
Class "X" Concrete	Cu. Yds.	199.0
Reinforcement Bars	Lbs.	49720
Protective Coat	Sq. Yds.	871

Notes :
For Section A-A See Sh. No. 113
For Note "A" and Misc. Details See Sh. No. 27

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

SLAB
SPANS A41 AND A42
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

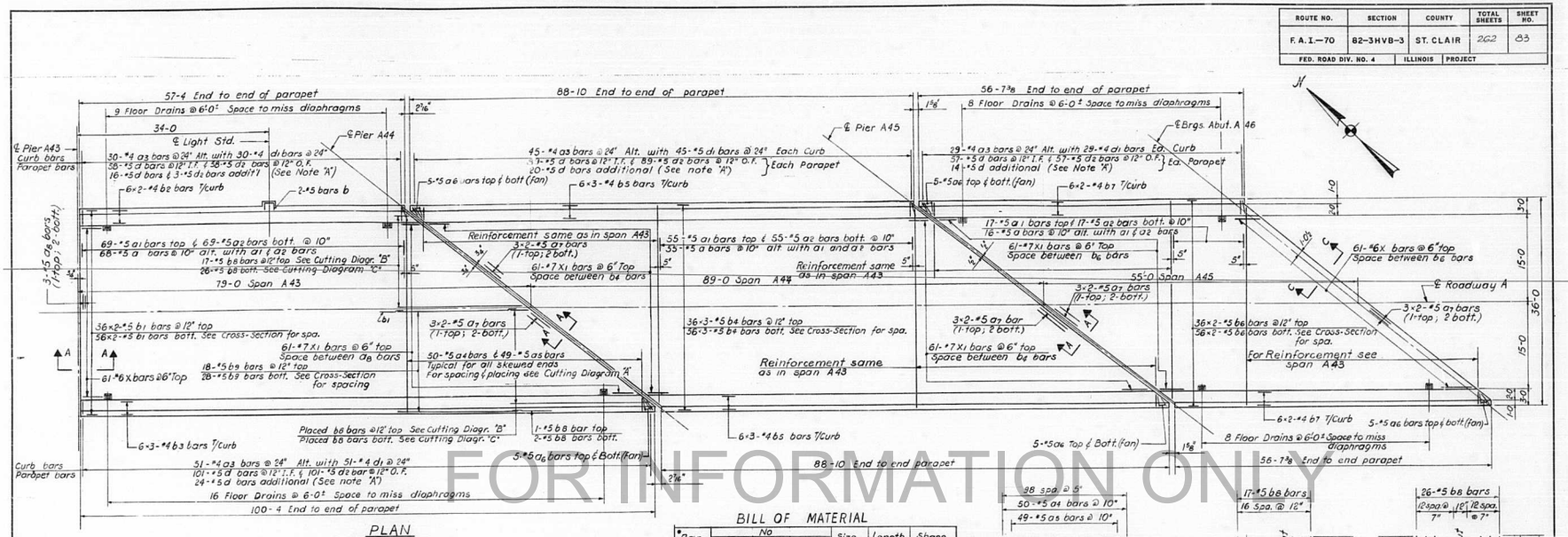
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-3

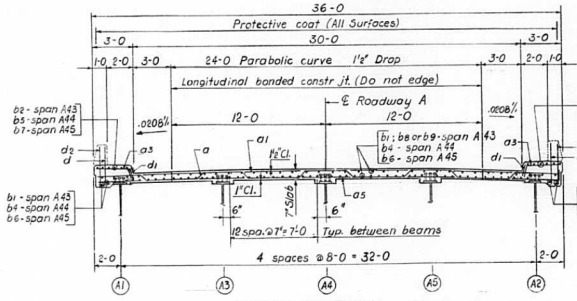
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

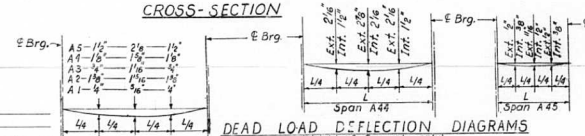
SHEET 15 OF 163

DESIGNED BY A.T.
DRAWN BY HAMILTON
CHECKED BY W.J.F.
APPROVED BY K.A.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82-3HVB-3	ST. CLAIR	262	83
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		







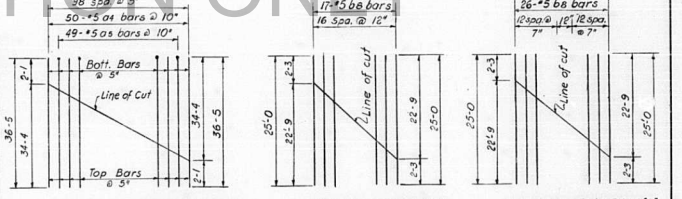
DESIGNED BY A.T.
DRAWN BY E.N.
CHECKED BY W.W.F.
APPROVED BY K.A.

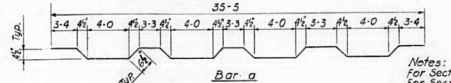
BILL OF MATERIAL

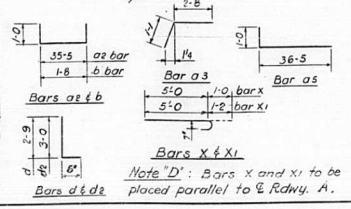
*Bar	No Span A43	No Span A44	No Span A45	Size	Length	Shape
a	68	55	16	#5	36-9	
16 a1	69	55	17	#5	35-5	
16 a2	69	55	17	#5	37-5	
16 a3	81	90	58	#4	3-9	
16 a4	50	100	100	#5	36-5	
16 a5	49	98	98	#5	37-5	
16 a6	10	20	20	#5	6-0	
16 a7	6	12	12	#5	25-6	
16 a8	3	—	—	#5	31-0	
16 b	2	—	—	#5	3-8	
16 b1	184	—	—	#5	29-1	
16 b2	12	—	—	#4	30-0	
16 b3	18	—	—	#4	34-0	
16 b4	—	276	—	#5	30-3	
16 b5	—	36	—	#4	30-3	
16 b6	—	—	184	#5	28-9	
16 b7	—	—	24	#4	28-7	
16 b8	46	—	—	#5	25-0	
16 b9	46	—	—	#5	23-0	
16 d	199	218	142	#5	3-3	
16 d1	81	90	58	#4	1-1	
16 d2	162	178	114	#5	3-6	
16 X	61	—	61	#6	6-0	
16 X1	61	122	61	#7	6-2	

* See Note "X" sheet No 27

ITEM	UNIT	TOTAL A43	TOTAL A44	TOTAL A45
Class "X" Concrete	Cu. Yds.	80.2	90.4	60.1
Reinforcement Bars	Lbs.	23,370	27,010	19,350
Protective Coat	Sq. Yds.	352	374	238







Note "D": Bars X and X1 to be placed parallel to ℄ Rdwy. A.

Notes:
For Section C-C see sheet No. 113
For Section A-A see sheet No. 113
For Note "A" and Misc. Details see sheet No 27

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

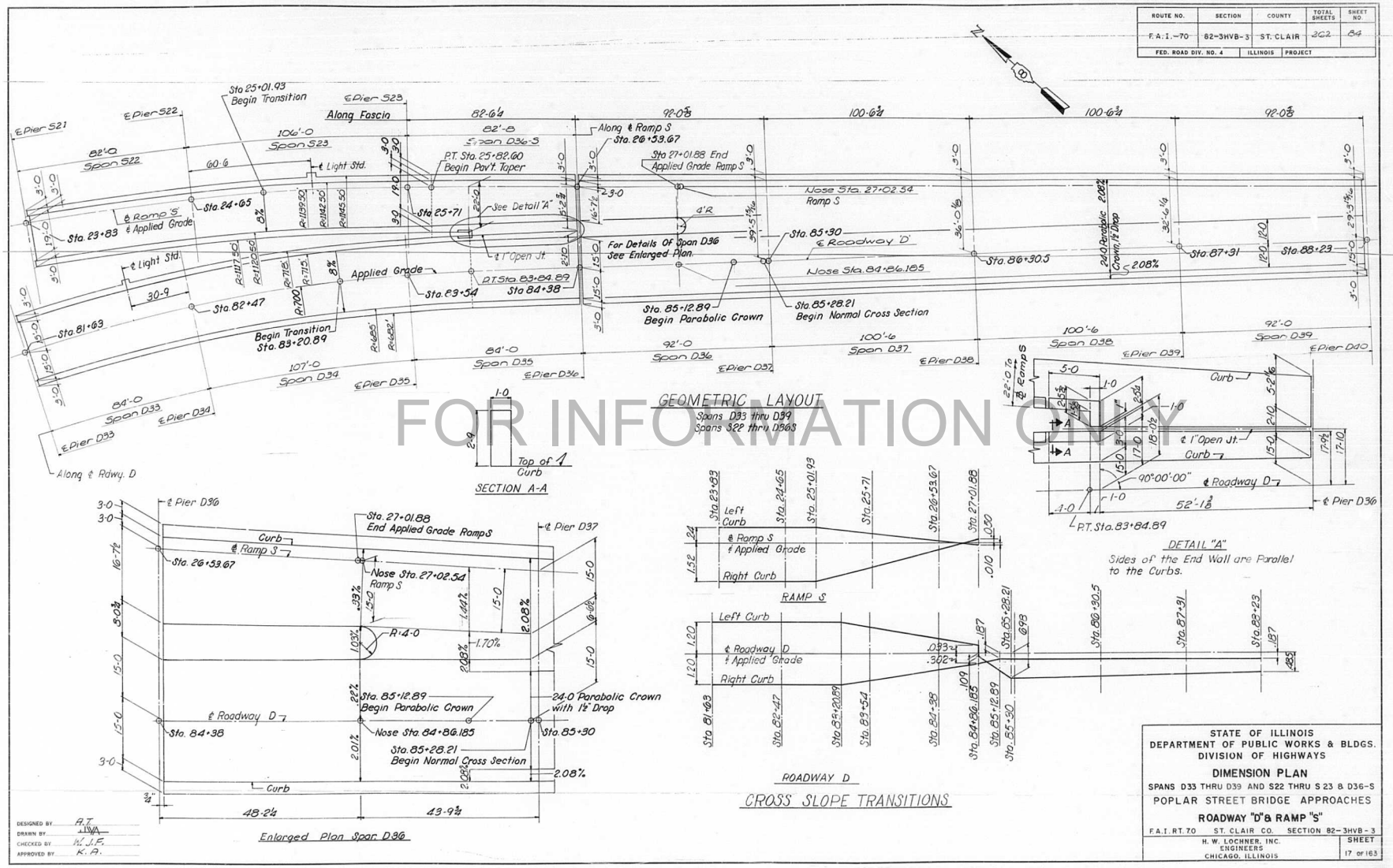
SLAB
SPANS A43 THRU A45
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

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

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

SHEET 16 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	84
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



DESIGNED BY A.T.
DRAWN BY J.W.A.
CHECKED BY W.J.F.
APPROVED BY K.A.

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

DIMENSION PLAN

SPANS D33 THRU D39 AND S22 THRU S 23 & D36-S

POPLAR STREET BRIDGE APPROACHES

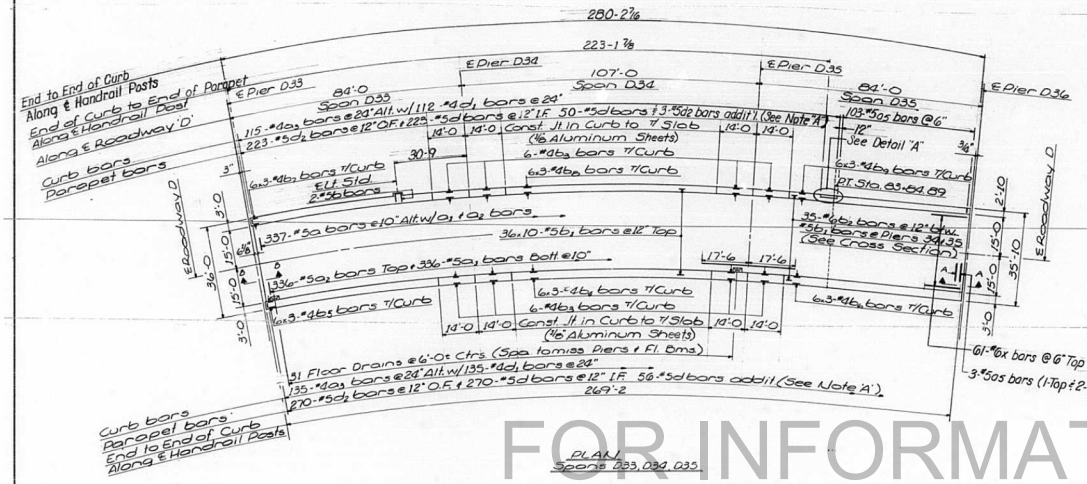
ROADWAY "D" & RAMP "S"

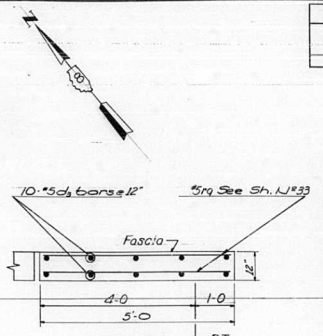
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-3

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

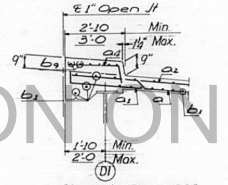
SHEET 17 of 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	85
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	





Detail 'A'
For Elevation of Parapet Wall
See Detail 'A' Sh. No. 33



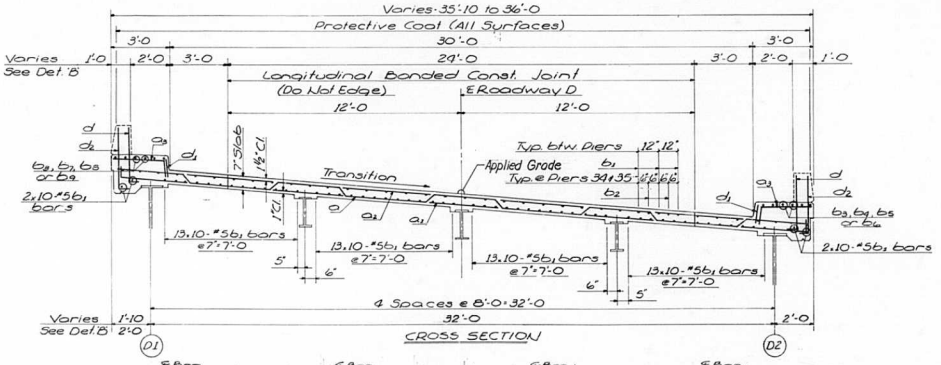
Left Curb - Span D35
Detail 'D'
(Sta. 83+85.89 to Sta. 84+38)

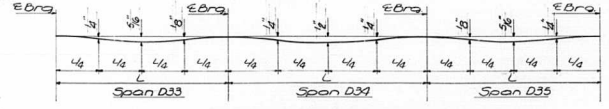
BILL OF MATERIAL

• Bar	No.	Size	Length	Shape
18 a	337	#5	36-9	
18 a_1	336	#5	37-5	
18 a_2	336	#5	35-5	
18 a_3	250	#4	3-9	
18 a4	103	#5	3-7	
18 a5	3	#5	31-0	
18 b	2	#5	3-6	
18 b_1	920	#5	29-0	
18 b_2	70	#6	35-0	
18 b_3	48	#4	13-9	
18 b_4	18	#4	26-2	
18 b_5	18	#4	25-3	
18 b_6	18	#4	25-9	
18 b_7	18	#4	24-8	
18 b_8	18	#4	27-11	
18 b_9	18	#4	24-4	
18 d	599	#5	3-3	
18 d_1	247	#4	1-1	
18 d_2	496	#5	3-6	
18 d_3	10	#5	4-3	
18 x	61	#6	5-2	

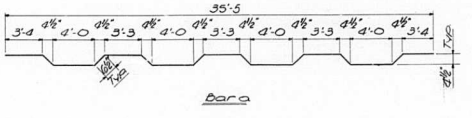
ITEM	UNIT	TOTAL
Class 'X' Concrete	Cu. Yds.	278.7
Reinforcement bars	Lbs.	77,850
Protective Coat	Sq. Yds.	1224

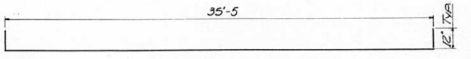
• See Note 'X' Sh. No. 87

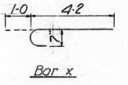




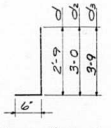
DEAD LOAD DEFLECTION DIAGRAM
Fascia Girders (Wt. of Conc. only)

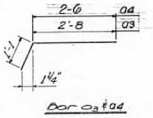


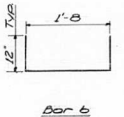




Note:
For Section A-A & B-B See Sh. No. 112 & 113
For Note 'A' & Misc. Details See Sh. No. 27







DESIGNED BY A.T.
DRAWN BY W.J.F.
CHECKED BY W.J.F.
APPROVED BY K.A.

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

SLAB

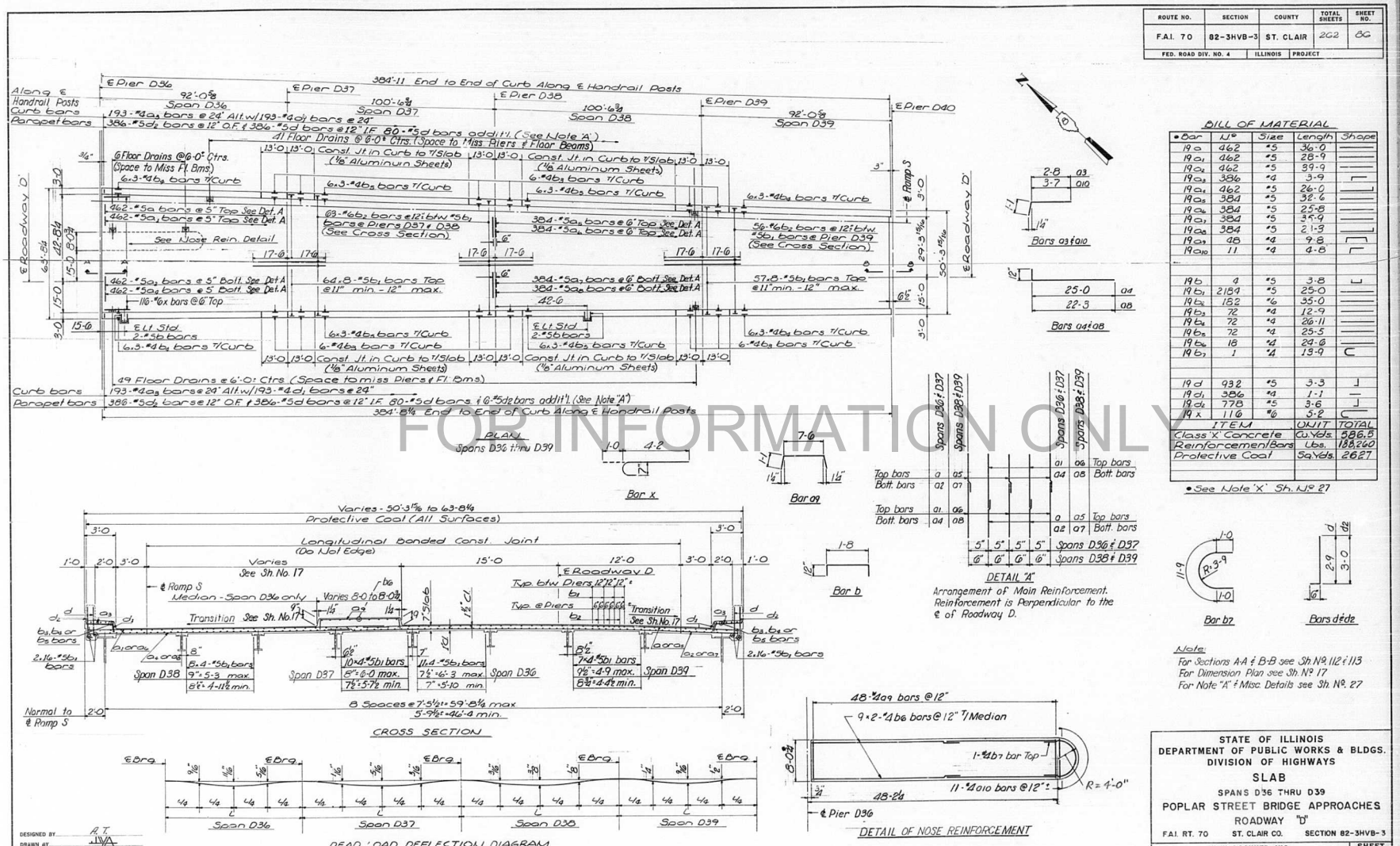
SPANS D33 THRU D35
POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

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

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

SHEET 18 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVB-3	ST. CLAIR	262	86
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



BILL OF MATERIAL

• Bar	No.	Size	Length	Shape
19a	462	#5	36-0	
19a1	462	#5	28-9	
19a2	462	#5	39-9	
19a3	386	#4	3-9	
19a4	462	#5	26-0	
19a5	384	#5	32-6	
19a6	384	#5	25-8	
19a7	384	#5	39-9	
19a8	384	#5	21-3	
19a9	48	#4	9-8	
19a10	11	#4	4-8	
19b	4	#5	3-8	
19b1	2189	#5	25-0	
19b2	182	#6	35-0	
19b3	72	#4	12-9	
19b4	72	#4	26-11	
19b5	72	#4	25-5	
19b6	18	#4	24-8	
19b7	1	#4	13-9	
19d	932	#5	3-3	
19d1	386	#4	1-1	
19d2	778	#5	3-6	
19x	116	#6	5-2	

ITEM	UNIT	TOTAL
Class 'X' Concrete	Cu. Yds.	586.5
Reinforcement Bars	Lbs.	188,260
Protective Coat	Sq. Yds.	2627

• See Note 'X' Sh. No. 27

Note:
For Sections A-A & B-B see Sh. No. 112 & 113
For Dimension Plan see Sh. No. 17
For Note 'A' & Misc. Details see Sh. No. 27

DESIGNED BY A.T.
DRAWN BY J.W.A.
CHECKED BY W.J.F.
APPROVED BY K.A.

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

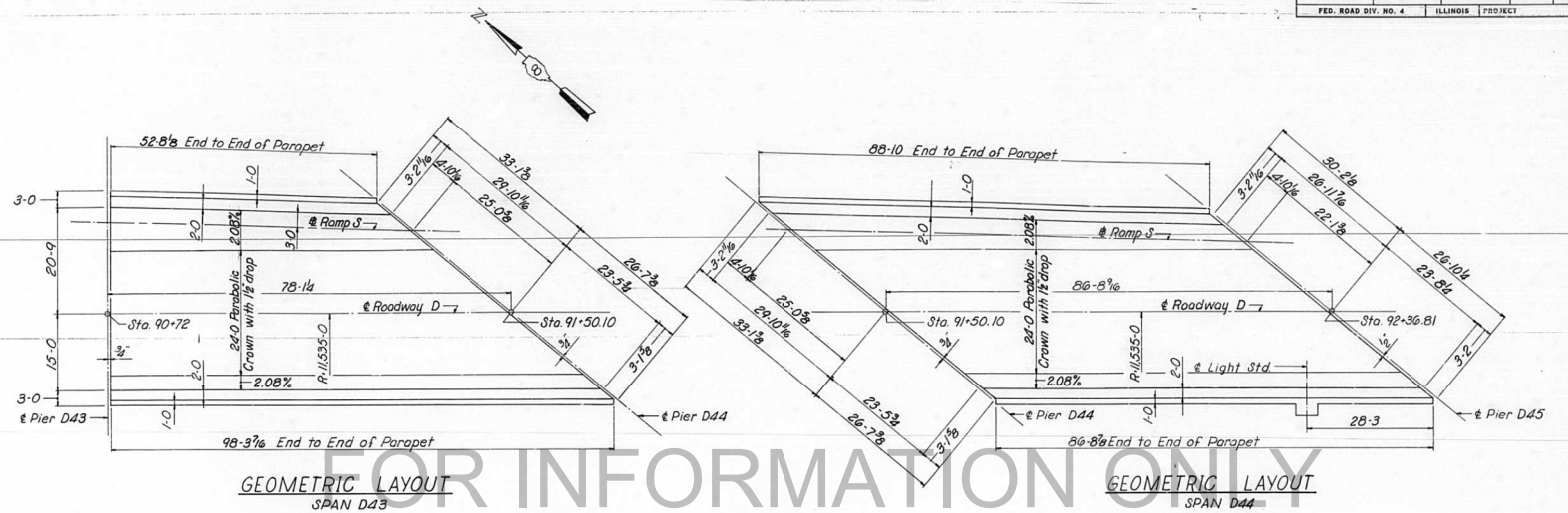
SLAB
SPANS D36 THRU D39
POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

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

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

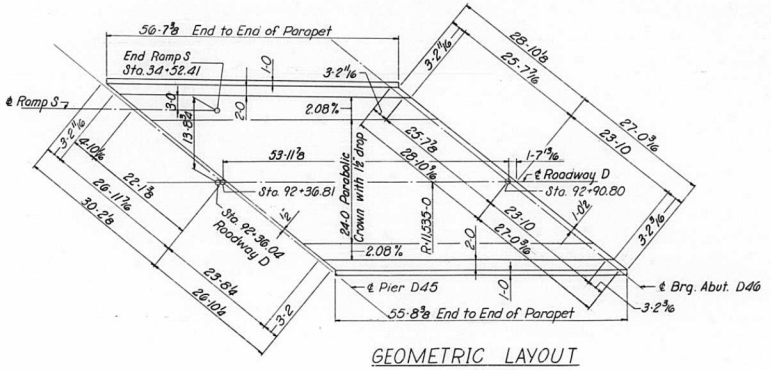
SHEET 19 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	87
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



GEOMETRIC LAYOUT
SPAN D43

GEOMETRIC LAYOUT
SPAN D44



GEOMETRIC LAYOUT
SPAN D45

FOR INFORMATION ONLY

DESIGNED BY A.T.
DRAWN BY HAMILTON
CHECKED BY W.J.K.
APPROVED BY K.A.

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

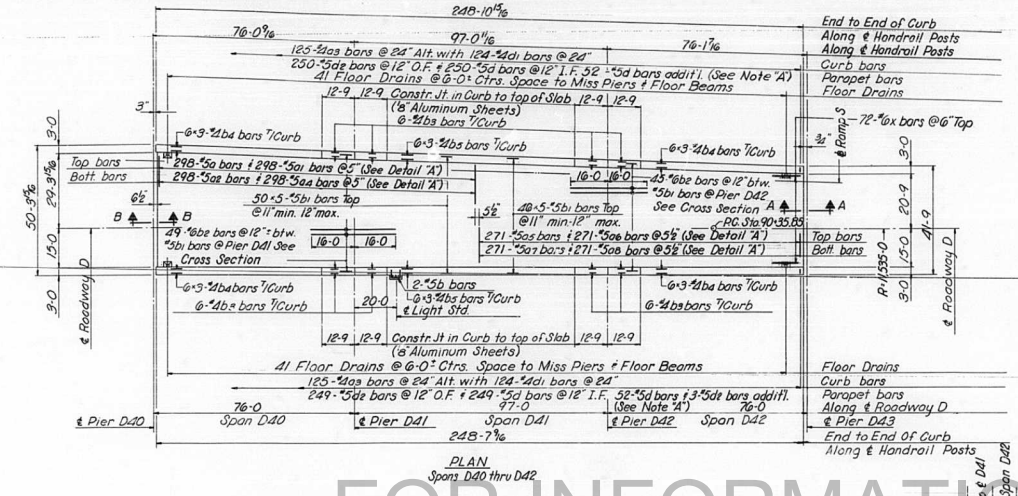
DIMENSION PLAN
SPANS D43 THRU D45
POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

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

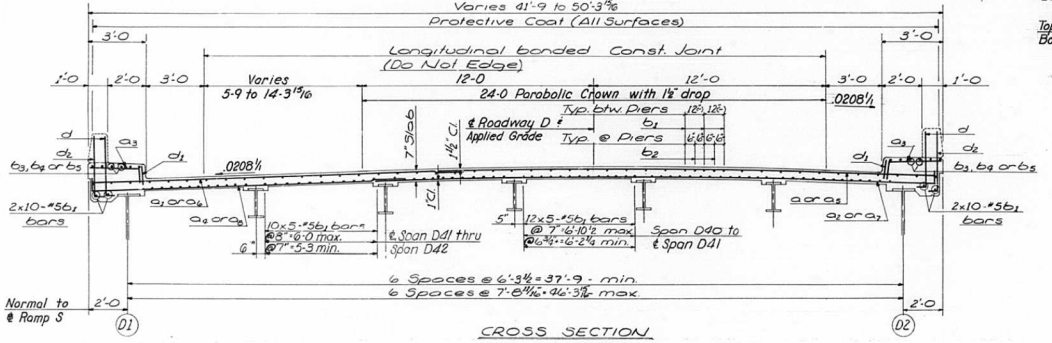
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET
21 OF 136

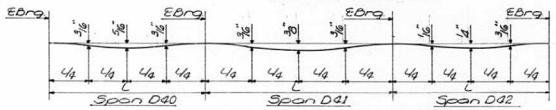
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82-3HVB-3	ST. CLAIR	202	88
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



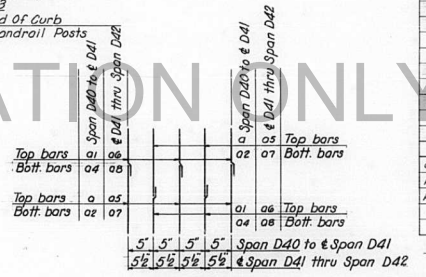
PLAN
Spans D40 thru D42



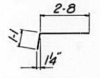
CROSS SECTION



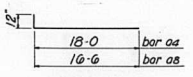
DEAD LOAD DEFLECTION DIAGRAM
Fascia Girders (Wt. of Conc. only)



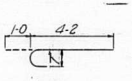
DETAIL "A"
Arrangement of Main Reinforcement. Reinforcement is Perpendicular to the ℄ of Roadway D.



Bar a3

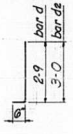


Bars a4 & a8



Bar x

Bar b



Bars d & d2

BILL OF MATERIAL

●Bar	No	Size	Length	Shape
20a	298	#5	29-7	
20a1	298	#5	21-10	
20a2	298	#5	33-6	
20a3	250	#4	3-9	
20a4	298	#5	19-0	
20a5	271	#5	27-1	
20a6	271	#5	20-0	
20a7	271	#5	30-7	
20a8	271	#5	17-6	
20b	2	#5	3-8	
20b1	1180	#5	25-9	
20b2	94	#6	32-0	
20b3	48	#4	12-6	
20b4	72	#4	21-9	
20b5	36	#4	24-5	
20d	603	#5	3-3	
20d1	248	#4	1-1	
20d2	502	#5	3-6	
20x	72	#6	5-2	

ITEM	UNIT	TOTAL
Class X Concrete	Cu. Yds.	309.6
Reinforcement bars	Lbs.	102,690
Protective Coat	Sq. Yds.	1387

● See Note 'X' Sh. No. 27

Notes:
For Section A-A & B-B See Sh. No. 112 & 113
For Note "A" and Misc. Details See Sh. No. 27

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

SLAB
SPANS D40 THRU D42
POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

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

DESIGNED BY	A.T.
DRAWN BY	W.A.
CHECKED BY	W.J.F.
APPROVED BY	K.A.

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

SHEET 20 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	89
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

BAR	NO D43	NO D44	SIZE	LENGTH	SHAPE
22a	126	—	#5	13-10	—
22a1	132	12	#5	29-0	—
22a2	126	—	#5	17-9	—
22a3	76	89	#4	3-9	⌐
22a4	126	—	#5	26-1	⌐
22a5	54	—	#5	41-0	⌐
22a6	54	—	#5	42-0	⌐
22a7	—	49	#5	39-9	⌐
22a8	—	49	#5	40-9	⌐
22a9	—	92	#5	26-11	⌐
22a10	—	92	#5	13-2	⌐
22a11	—	92	#5	23-6	⌐
22a12	—	92	#5	17-6	⌐
22a13	—	46	#5	38-6	⌐
22a14	—	47	#5	39-6	⌐
22a15	5	10	#5	6-0	⌐
22b	—	2	#5	3-8	⌐
22b1	192	—	#5	26-9	⌐
22b2	12	—	#4	26-9	—
22b3	18	—	#4	33-4	—
22b4	—	18	#4	30-2	—
22b5	—	18	#4	29-6	—
22b6	48	—	#5	25-0	—
22b7	—	282	#5	30-4	—
22b8	41	—	#5	28-0	—
22d	192	223	#5	3-3	J
22d1	75	89	#4	1-1	—
22d2	152	180	#5	3-6	J
22x	72	—	#6	6-0	∩
22x1	68	132	#7	6-2	∩

● See Note "X" Sh No. 27

ITEM	UNIT	TOTAL D43	TOTAL D44
Class "X" Concrete	Cu. Yds.	98.7	109.3
Reinforcement Bars	Lbs.	27,660	28,480
Protective Coat.	Sq. Yds.	382	414

Notes:
For Section A-A See Sh. No 113
For Note "A" and Misc. Details See Sh. No. 27
For Dimension Plan See Sh. No. 21

PLAN

Spans D43 & D44
Transverse bars to be placed Normal to ℄ Ramp S

CROSS SECTION

DETAIL "A"

5-#5a15 bars Top & Bott. of Slab. (fanned)

CUTTING DIAGRAM "A"

(See Note "D")

CUTTING DIAGRAM "B"

(See Note "D")

CUTTING DIAGRAM "C"

(See Note "D")

CUTTING AND PLACING DIAGRAM "D"

(See Note "D")

Remainder of bars to be spaced alternately, as shown, with cut bar.

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

SLAB
SPANS D43 AND D44
POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

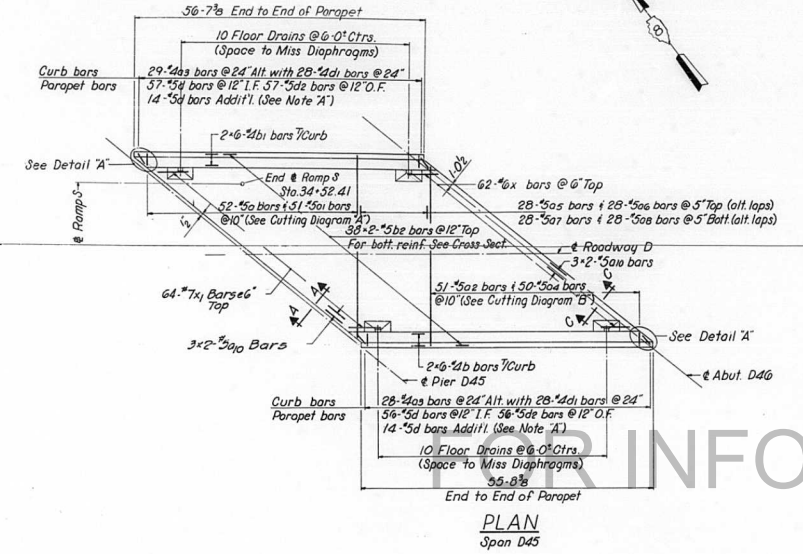
F.A.I. RT. 70 ST. CLAIR CO SECTION 82-3HVB-3

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

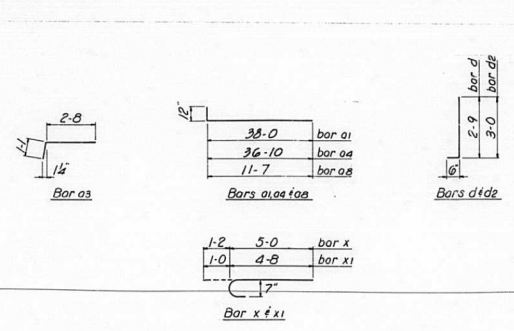
SHEET 22 OF 163

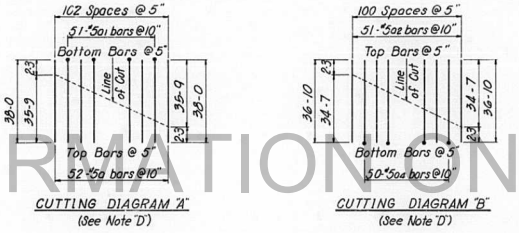
DRAWN BY AT
CHECKED BY HAMILTON
APPROVED BY W. J. F.
APPROVED BY K.A.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82-3HVB-3	ST. CLAIR	2G2	90
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



PLAN
Span D45





BILL OF MATERIAL

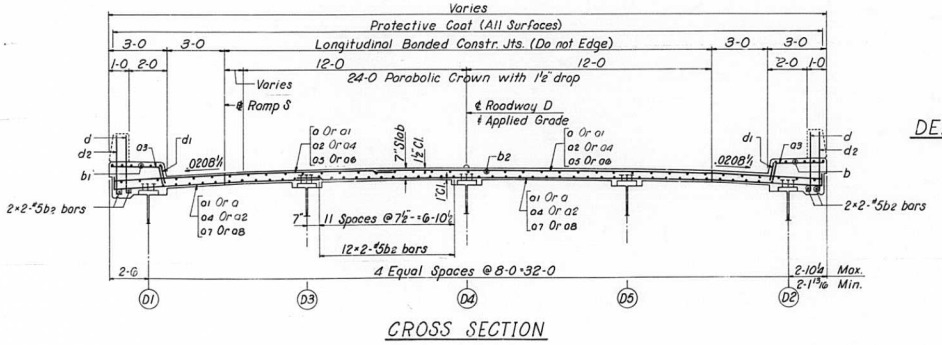
• BAR	NO.	SIZE	LENGTH	SHAPE
23a	52	#5	38-0	—
23a1	51	#5	34-0	L
23a2	51	#5	36-10	L
23a3	57	#4	3-4	⌐
23a4	50	#5	37-10	L
23a5	28	#5	15-7	—
23a6	28	#5	23-0	—
23a7	28	#5	27-0	—
23a8	28	#5	12-7	L
23a9	10	#5	6-0	—
23a10	12	#5	25-0	—
23b	12	#4	28-2	—
23b1	12	#4	28-8	—
23b2	180	#5	28-8	—
23d	141	#5	3-3	⌋
23d1	56	#4	1-1	—
23d2	113	#5	3-6	⌋
23x	62	#7	6-2	⊂
23x1	64	#6	5-8	⊂

• See Note "X" Sh. No. 27

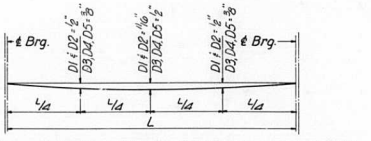
ITEM	UNIT	TOTAL
Class "X" Concrete	Cu. Yds.	65.7
Reinforcement Bars	Lbs.	18,370
Protective Coat	Sq. Yds.	255

Notes:
For Dimension Plan See Sh. No. 21
For Note "A" and Misc. Details See Sh. No. 27
For Section A-A and C-C See Sh. No. 112 & 113

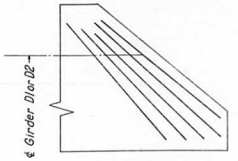
Note "D":
Order bars a, a1, a2 and a4 full length, cut in field, and place as shown.



CROSS SECTION



DEAD LOAD DEFLECTION DIAGRAM
(Wt. of Concrete Only)



DETAIL "A"
5-#5a9 bars Top & Batt. of Slab. (Fanned)

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

SLAB
SPAN D45
POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

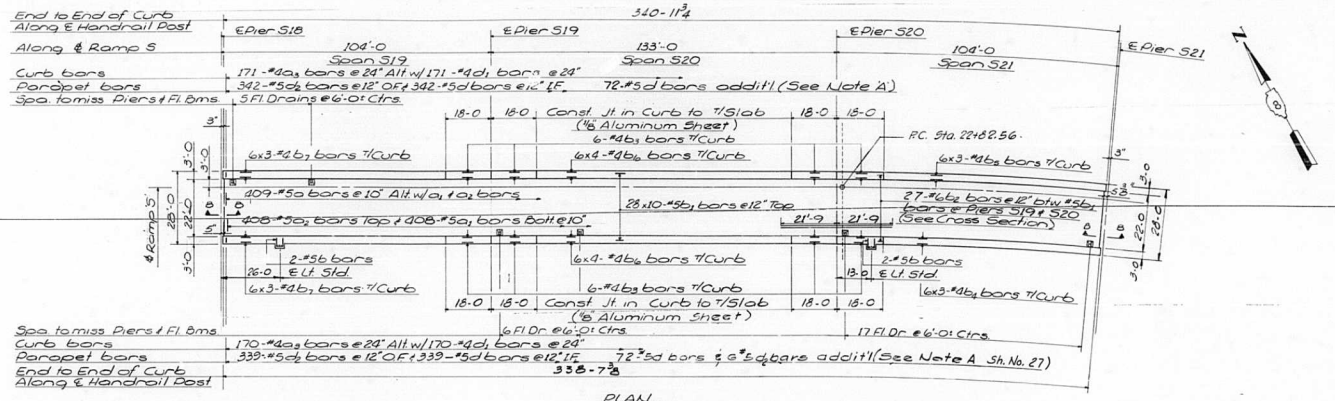
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-3

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

SHEET 23 OF 163

DESIGNED BY A.T.
DRAWN BY HAMILTON
CHECKED BY W.J.F.
APPROVED BY K.A.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82-3HVB-3	ST. CLAIR	262	91
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



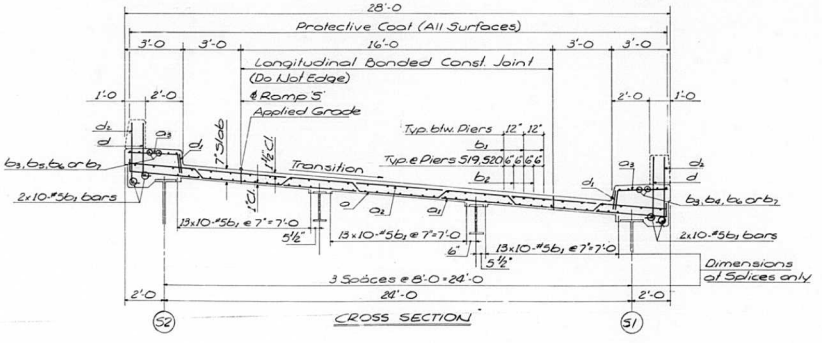
PLAN
Spans S19, S20, S21

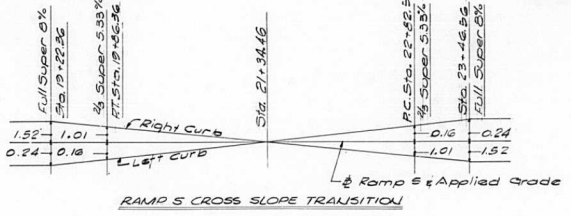
BILL OF MATERIAL

•Bar	No	Size	Length	Shape
24a	409	#5	28-5	
24a1	408	#5	29-5	
24a2	408	#5	27-5	
24a3	341	#4	3-9	
24b	4	#5	3-8	
24b1	710	#5	33-0	
24b2	54	#6	45'-6	
24b3	48	#4	17-8	
24b4	18	#4	28-9	
24b5	18	#4	29-7	
24b6	48	#4	25-0	
24b7	36	#4	29-4	
24d	825	#5	3-3	
24d1	341	#4	1-1	
24d4	687	#5	3-6	

ITEM	UNIT	TOTAL
Class X Concrete	Cu. Yds.	317.4
Reinforcement bars	Lbs.	74,950
Protective Coat	Sq. Yds.	1271

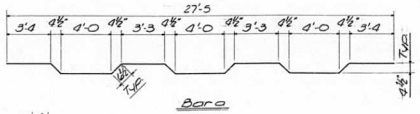
• See Note 'X' Sh. No. 27

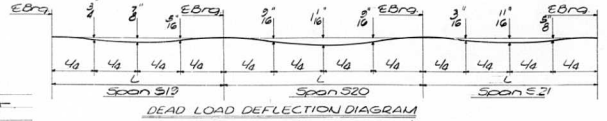




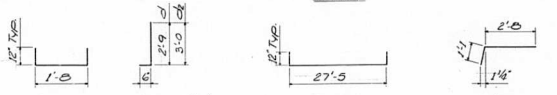
RAMP S CROSS SLOPE TRANSITION

NOTE:
For Section B-B, See Sheet No. 112
For Misc. Details see Sh. No. 27





DEAD LOAD DEFLECTION DIAGRAM
Fascia Girders (Wt. of Conc. only)



DESIGNED BY R.T.
DRAWN BY J.W.A.
CHECKED BY W.J.F.
APPROVED BY H.A.

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

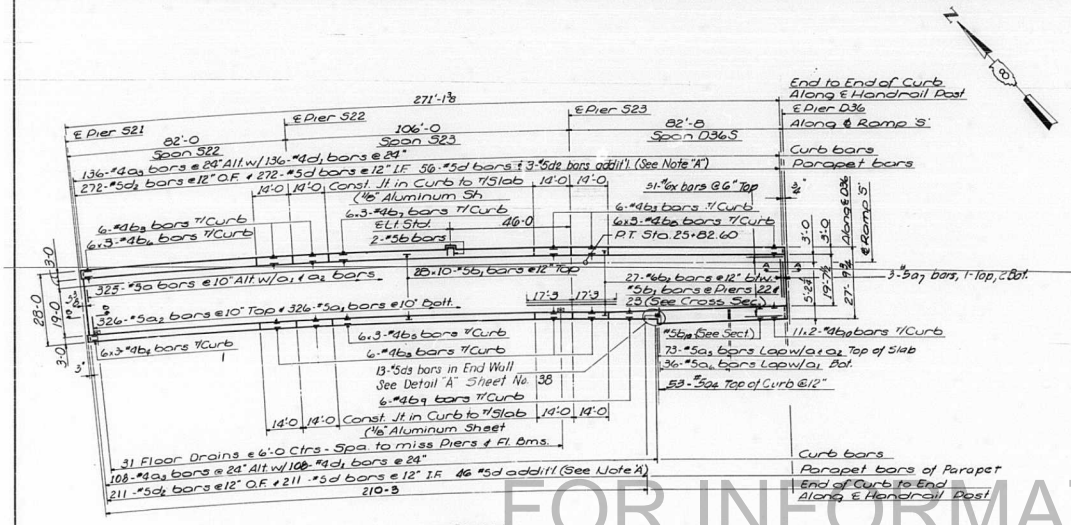
SLAB
SPANS S19 THRU S21
POPLAR STREET BRIDGE APPROACHES
RAMP "S"

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

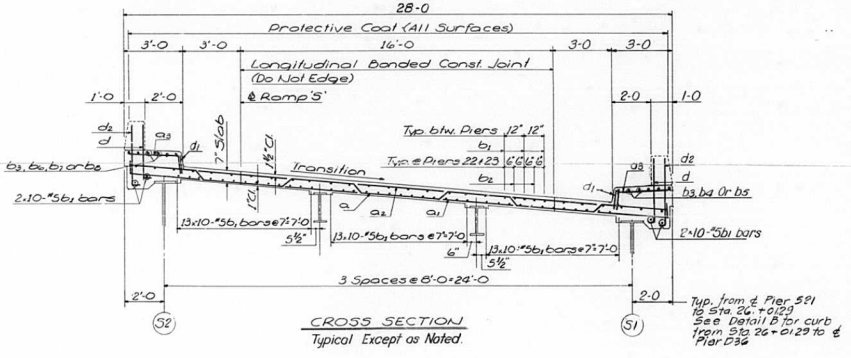
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 24 OF 163

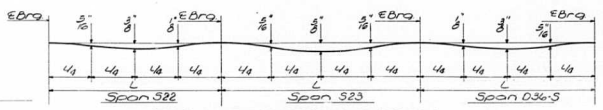
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.–70	82–3HVB–3	ST. CLAIR	262	92
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



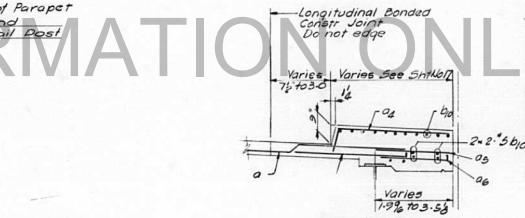
PLAN
Spans S22, S23, D36-S



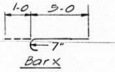
CROSS SECTION
Typical Except as Noted.

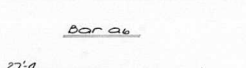


DEAD LOAD DEFLECTION DIAGRAM
Fascia Girders (Wt. of Conc. only)

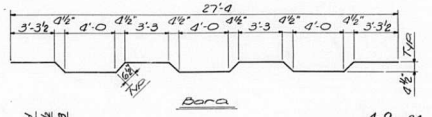


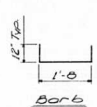
DETAIL 'B'

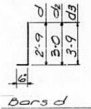


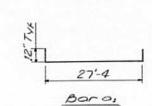


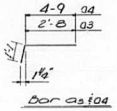
Bar a6











BILL OF MATERIAL

•Bar	No.	Size	Length	Shape
25a	325	#5	28-4	
25a1	326	#5	29-4	
25a2	326	#5	27-4	
25a3	244	#4	3-9	
25a4	53	#5	5-10	
25a5	73	#5	4-8	
25a6	36	#5	5-8	
25a7	3	#5	25-6	
25b	2	#5	3-8	
25b1	710	#5	28-0	
25b2	54	#6	34-6	
25b3	48	#4	13-9	
25b4	18	#4	22-9	
25b5	18	#4	24-0	
25b6	18	#4	23-4	
25b7	18	#4	26-10	
25b8	18	#4	23-6	
25b9	22	#4	13-8	
25b10	30	#5	27-0	
25d	585	#5	3-3	
25d1	244	#4	1-1	
25d2	486	#5	3-6	
25d3	13	#5	4-3	
25X	31	#6	6-0	

ITEM	UNIT	TOTAL
Class X Concrete	Cu. Yds.	257.3
Reinforcement bars	Lbs.	61,400
Protective Coat	Sq. Yds.	1019

•See Note 'X' Sh. No. 27

Note:
For Note 'A' & Misc. Details See Sh. No. 27
For Section A-A & B-B See Sh. No. 113 & 112
For Cross Slope Transitions See Sh. No. 17
For Dimension Plan See Sh. No. 17
For Detail 'A' See Sh. No. 17

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

SLAB
SPANS S22 THRU S23 AND D36–S
POPLAR STREET BRIDGE APPROACHES
RAMP "S"

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

DESIGNED BY	A.T.
DRAWN BY	D.H.
CHECKED BY	M.J.F.
APPROVED BY	K.A.

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

SHEET 25 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I—70	82-3HVB-3	ST. CLAIR	262	93
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

Bar	NO.	SIZE	LENGTH	SHAPE
26a	701	#5	28-5	
26a1	701	#5	29-5	
26a2	701	#5	27-5	
26a3	570	#4	3-9	
26b	4	#5	3-8	
26b1	1207	#5	33-5	
26b2	108	#6	33-0	
26b3	120	#4	13-2	
26b4	36	#4	22-8	
26b5	36	#4	25-0	
26b6	27	#6	35-0	
26b7	36	#4	23-9	
26b8	36	#4	25-8	
26b9	36	#4	26-4	
26b10	36	#4	27-0	
26d	1392	#5	3-3	
26d1	575	#4	1-1	
26d2	1156	#5	3-6	
● See Note "X" Sh. No. 27				

ITEM	UNIT	TOTAL
Class "X" Concrete	Cu. Yds.	531.2
Reinforcement Bars	Lbs.	129,170
Protective Coat	Sq. Yds.	2175

PLAN
Spans T1 thru T6

CROSS SECTION

Bar a

Bars a1 & b

Bar a3

DEAD LOAD DEFLECTION DIAGRAM
FASCIA GIRDERS
(Wt. of Concrete only)

RAMP T CROSS SLOPE TRANSITION

Notes:
For Note "A" & Misc. Details See Sh. No. 27
For Section B-B See Sh. No. 112
For Section D-D See Finger Plate at Abutment T6 Sh. No. 112.

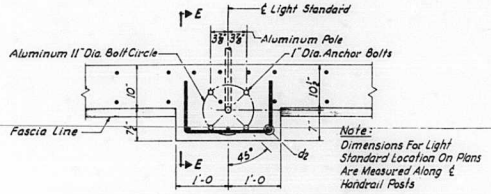
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
SLAB
SPANS T1 THRU T6
POPLAR STREET BRIDGE APPROACHES
RAMP "T"
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-3

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

SHEET 26 of 163

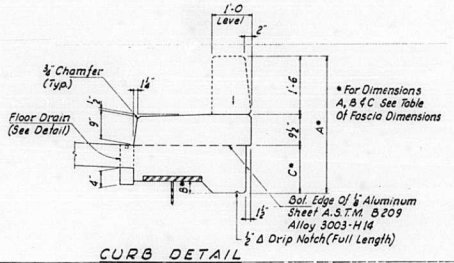
DESIGNED BY A.T
DRAWN BY HAMILTON
CHECKED BY W.J.F.
APPROVED BY K.A.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I.—70	82-3HVB-3	ST. CLAIR	262	94
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



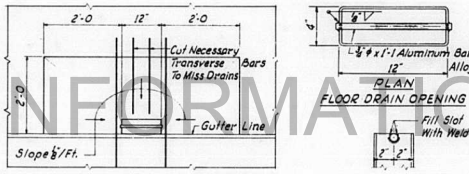
LIGHT STANDARD ANCHORAGE DETAIL

Note:
Dimensions For Light Standard Location On Plans Are Measured Along ℄ Handrail Posts



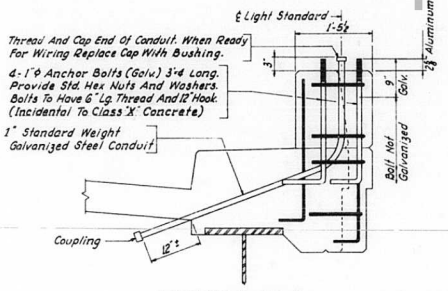
CURB DETAIL

TABLE OF FASCIA DIMENSIONS								
LOCATION	SPAN	GIRDER A1				GIRDER A2			
		A	B Min.	B Max.	C	A	B Min.	B Max.	C
Roadway 'A'	A29 thru A34	3-4½	¾	2	1-1	3-3½	⅜	1	1-0
	A35 thru A37	3-4½	¼	2	1-1	3-3½	¼	1	1-0
	A38 thru A40	3-3½	⅜	1	1-0	3-3½	⅜	1	1-0
	A41 & A42	3-3½	⅜	1	1-0	3-3½	⅜	1	1-0
	A43	3-3½	⅜	1	1-0	3-5½	⅝	3	1-2
	A44	3-5¼	⅝	4	1-1⅞	3-5¼	⅝	4	1-1⅝
	A45	3-2¾	1⅛	2	11⅛	3-2¾	1⅛	2	11⅛
		GIRDER D1				GIRDER D2			
Roadway 'D'	D33 thru D35	3-4½	⅜	2	1-1	3-4½	1	2	1-1
	D36 thru D39	3-4½	¼	2	1-1	3-4½	¼	2	1-1
	D40 thru D42	3-3½	½	1	1-0	3-3½	½	1	1-0
	D43	3-3½	⅜	1	1-0	3-5½	⅝	3	1-2
	D44	3-4⅝	¼	3½	1-1⅛	3-4⅝	⅝	3½	1-1⅛
	D45	3-2⅝	1⅛	2	11⅛	3-2⅝	1⅛	2	11⅛
		GIRDER S1				GIRDER S2			
Ramp 'S'	S19 thru S21	3-5½	¼	3	1-2	3-5½	1⅜	3	1-2
	S22, S23, D345	3-5½	½	3	1-2	3-5½	½	3	1-2
		GIRDER T1				GIRDER T2			
Ramp 'T'	T1 thru T6	3-4½	⅜	1⅛	1-1	3-4½	⅜	1⅛	1-1

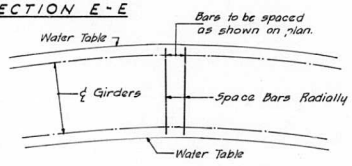


4"x12" Drains To Be Fabricated From ⅜" Welded Sheets Of Material Conforming To A.S.T.M. B209 Alloy 3003-H14 Or A.S.T.M. B209 Alloy 6061-T6 (For Spacing See Plans)

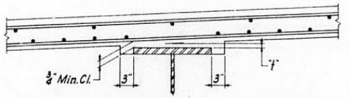
FLOOR DRAIN DETAILS



SECTION E-E



BAR SPACING DIAGRAM
See Note 'C'



METHOD OF DETERMINING FILLET HEIGHTS "f"

After All Structural Steel Has Been Erected, Elevations Of The Top Flanges Of The Beams Shall Be Taken At Intervals Shown On Sheets 41 Thru 55 These Elevations Subtracted From The Theoretical Grade Elevations Adjusted For Dead Load Deflection Shown On Sheets 41 Thru 55 Minus Slab Thickness (7) Equals The Fillet Heights Above Top Of Beams.

GENERAL SLAB NOTES

Note 'A' 2-Additional #5d Bars Inside Face Of Parapet At Each Handrail Post And Light Standard. 3-Additional #5d₂ Bars In Outside Face At Light Standard. Space bars to miss parapet joints.

Note 'B' Bars Indicated Thus 5x4-#5 Etc. Indicates 5 Lines Of Bars With 4 Lengths Per Line. Min. Bar Laps = 20 Dia. (Transverse Slab Bars Shall Have A Min. Lap Of 30 Dia.)

Note 'C' Transverse Bars In Horizontally Curved Slab Shall Be Spaced Radially. See Bar Spacing Diagram.

• 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.

DESIGNED BY DWR
DRAWN BY GBRIZ
CHECKED BY DWR
APPROVED BY RA

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

SLAB DETAILS

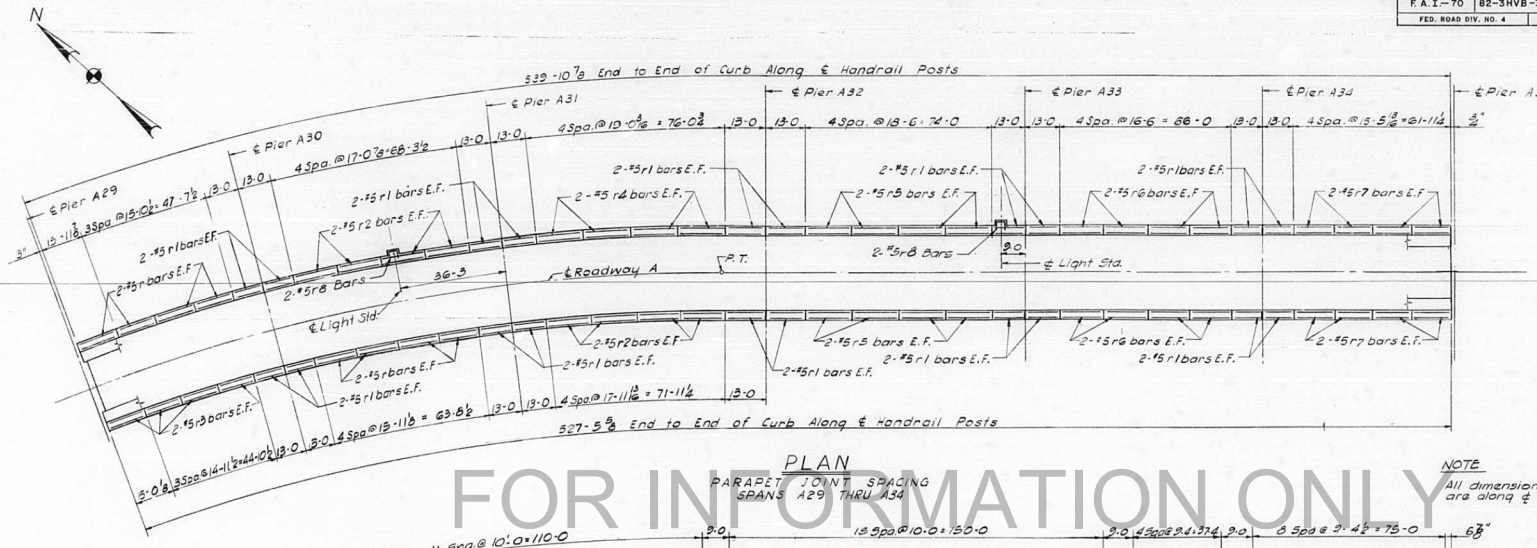
POPLAR STREET BRIDGE APPROACHES

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

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

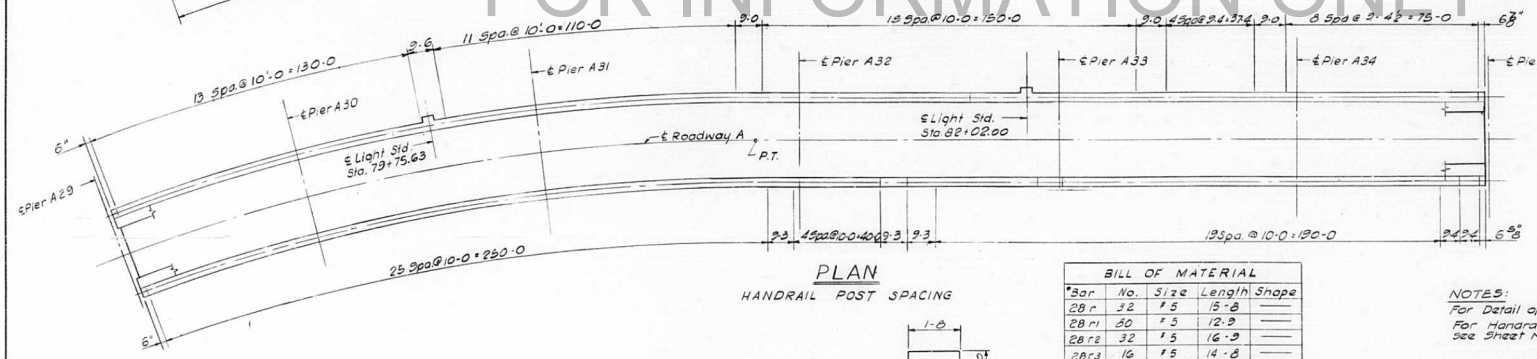
SHEET 27 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	95
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



PLAN
PARAPET JOINT SPACING
SPANS A29 THRU A34

NOTE
All dimensions in plan are along ℄ of posts.



PLAN
HANDRAIL POST SPACING

BILL OF MATERIAL				
*Bar	No.	Size	Length	Shape
28 r	32	# 5	15'-8	
28 r1	60	# 5	12'-9	
28 r2	32	# 5	16'-9	
28 r3	16	# 5	14'-8	
28 r4	16	# 5	18'-3	
28 r5	32	# 5	18'-3	
28 r6	32	# 5	16'-3	
28 r7	32	# 5	15'-3	
28 r8	4	# 5	3'-8	⊓

Item	Unit	Total
Class 'X' Concrete	Cu. Yds.	54.4
Reinforcement Bars	Lbs.	4380
Aluminum Handrail	Lin. Ft.	1068

*See Note X Sheet No. 27

NOTES:
For Detail of Light Std. see Sheet No. 27
For Handrail & Parapet Joint Detail see Sheet No. 40

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

PARAPET AND HANDRAIL
SPANS A29 THRU A34
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

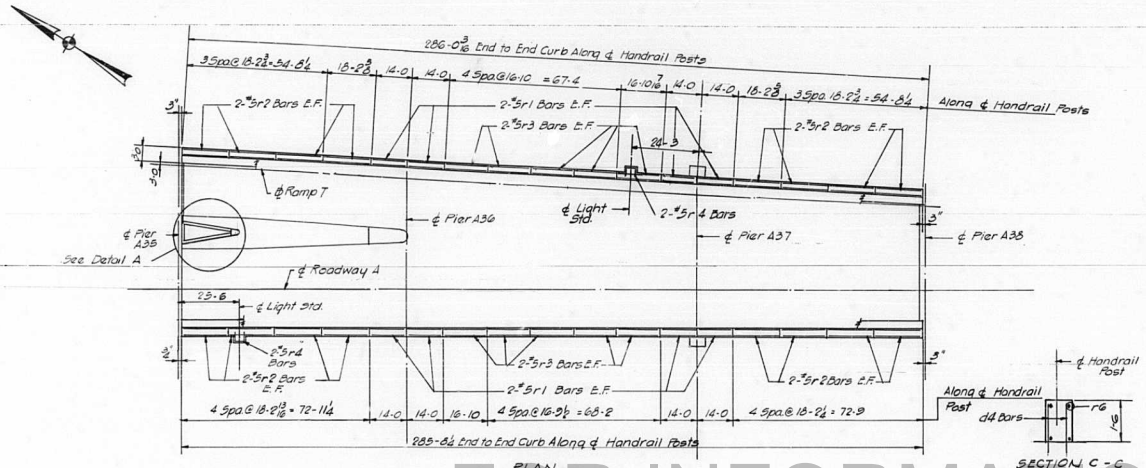
F.A.I RT. 70 ST. CLAIR CO. SECTION 82-3HVB-3

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

SHEET 28 of 167

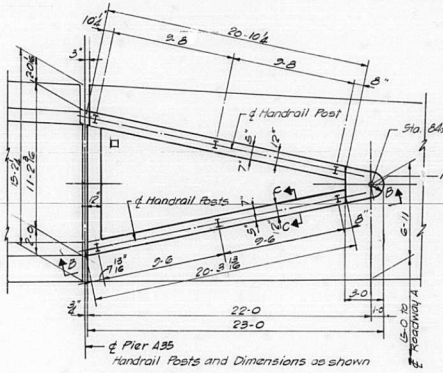
DESIGNED BY A.T.
DRAWN BY I.M.
CHECKED BY W.J.F.
APPROVED BY K.A.

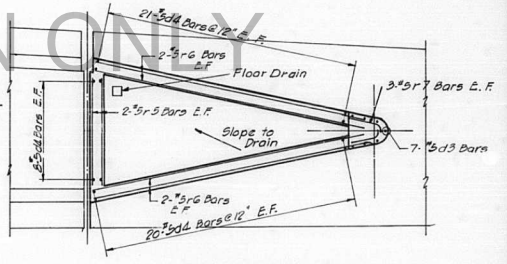
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	2G2	9G
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	



PLAN
Parapet Joint Spacing
Spans A35 thru A37

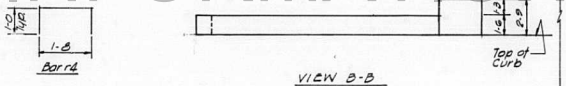
SECTION C-C

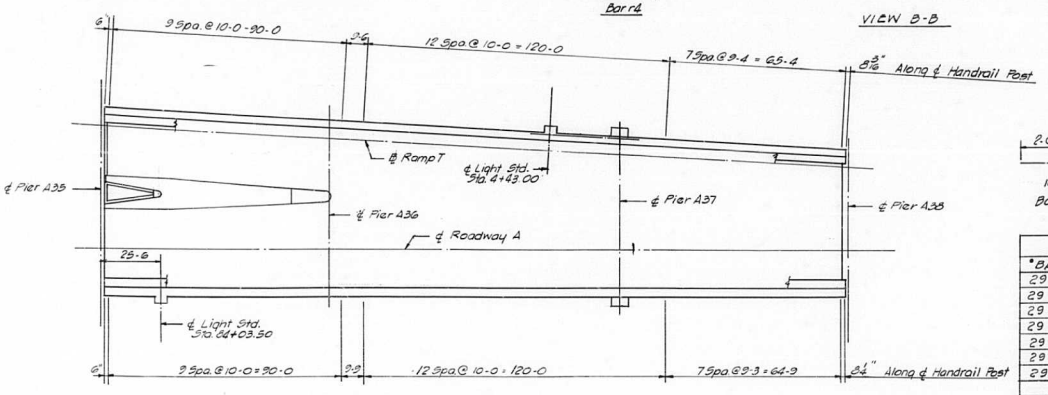




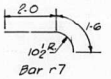
Reinforcement Bars as shown

DETAIL A





PLAN
Handrail Post Spacing



BILL OF MATERIAL				
*BAR	NO	SIZE	LENGTH	SHAPE
29 r1	32	#5	13-8	—
29 r2	64	#5	17-11	—
29 r3	40	#5	16-6	—
29 r4	4	#5	3-8	⊓
29 r5	4	#5	10-0	—
29 r6	8	#5	22-0	—
29 r7	6	#5	3-6	⌒
ITEM			UNIT	TOTAL
Class X Concrete			Cu.Yd.	29.1
Reinforcement Bars			Lbs.	2600
Aluminum Handrail			Lin.Ft.	573

*See Note 'X' Sheet No. 27

NOTES:
For Detail at Light Std. see Sheet No. 27
For Handrail and Parapet Joint Detail see Sheet No. 40
For Dowel Details d3 & d4 see Sheet No. 12

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

PARAPET AND HANDRAIL

SPANS A35 THRU A37
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

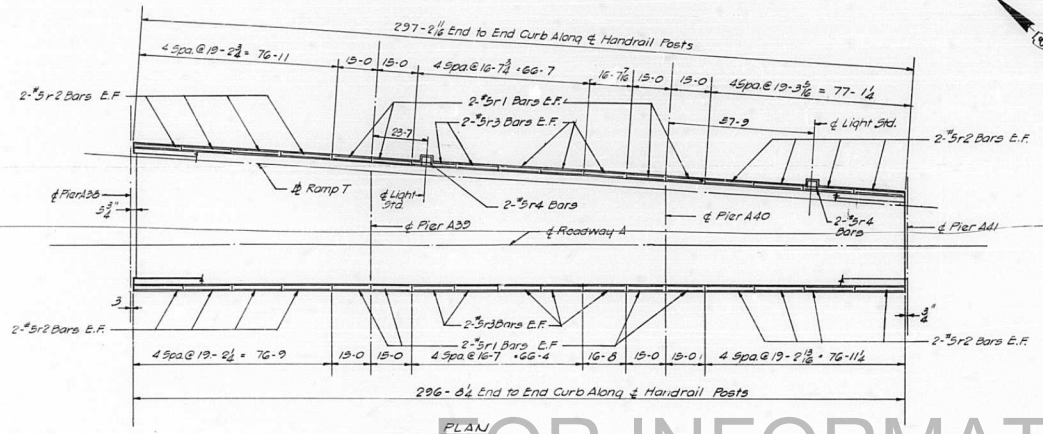
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-3

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

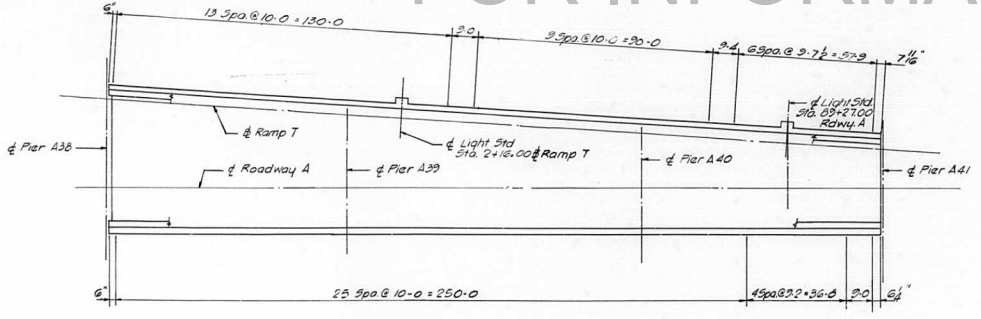
SHEET 29 OF 163

DESIGNED BY A.T.
DRAWN BY V.T.
CHECKED BY W.J.F.
APPROVED BY K.A.

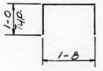
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	97
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	



PLAN
Parapet Joint Spacing
Spans A38 thru A40



PLAN
Handrail Post Spacing



NOTE:
All dimensions in plan are along ℄ of posts

BILL OF MATERIAL				
*BAR	NO	SIZE	LENGTH	SHAPE
30 r1	32	#5	14-8	—
30 r2	64	#5	18-11	—
30 r3	40	#5	16-4	—
30 r4	4	#5	3-8	⊓
ITEM			UNIT	TOTAL
Class X Concrete			Cu.Yds.	30.2
Reinforcement Bars			Lbs.	2450
Aluminum Handrail			Lin Ft.	395

*See Note 'X' Sheet No. 27

NOTES:
For Detail at Light Std. see Sheet No. 27
For Handrail and Parapet Joint Details see Sheet No. 40

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

PARAPET AND HANDRAIL

SPANS A38 THRU A40
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

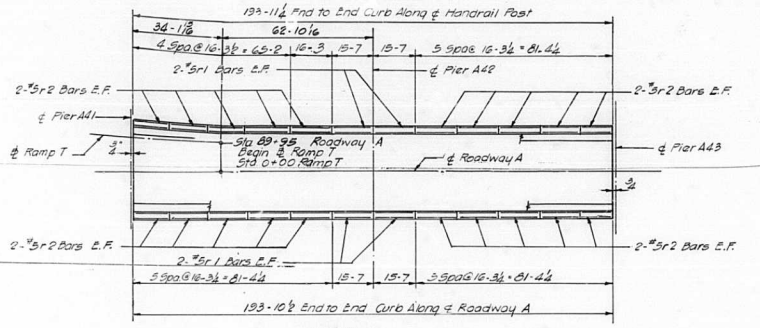
F.A.I.RT.70 ST. CLAIR CO. SECTION 82-3HVB-3

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

SHEET 30 OF 163

DESIGNED BY A.T.
DRAWN BY T.T.
CHECKED BY W.J.F.
APPROVED BY K.A.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82-3HVB-3	ST. CLAIR	262	98
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

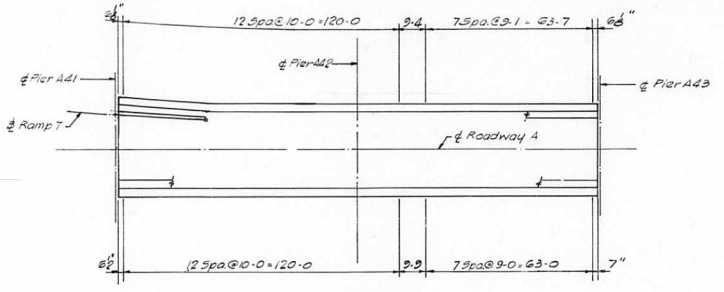


PLAN
Parapet Joint Spacing
Spans A41 & A42

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

BILL OF MATERIAL				
*BAR	NO	SIZE	LENGTH	SHAPE
31 r1	16	#3	13-4	—
31 r2	80	#5	16-0	—
ITEM			UNIT	TOTAL
Class X Concrete			Cu. Yds	19.7
Reinforcement Bars			Lbs	1590
Aluminum Handrail			Lin. Ft.	388

*See Note 'X' Sheet No. 27



PLAN
Handrail Post Spacing

NOTES:
For Handrail and Parapet Joint Details see Sheet No. 40

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

PARAPET AND HANDRAIL
SPANS A41 AND A42
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

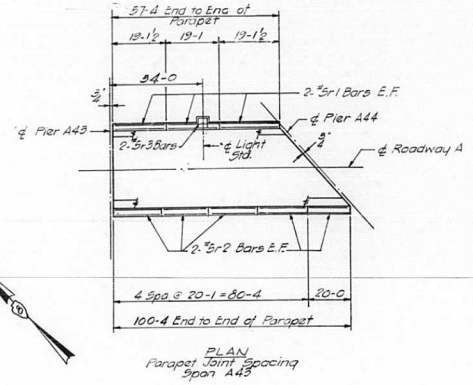
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-3

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

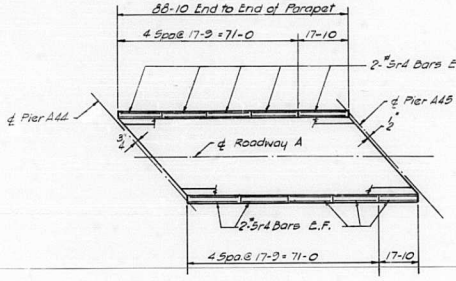
SHEET
31 OF 163

DESIGNED BY R.T.
DRAWN BY V.E.
CHECKED BY W.J.F.
APPROVED BY K.A.

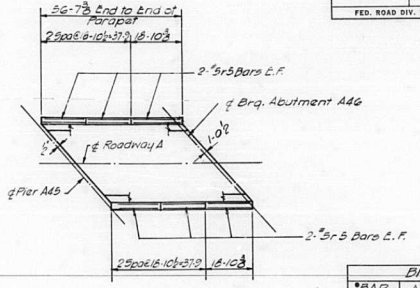
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. – 70	82–3HVB–3	ST. CLAIR	262	99
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



PLAN
Parapet Joint Spacing
Span A43



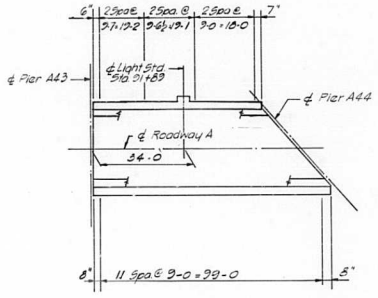
PLAN
Parapet Joint Spacing
Span A44



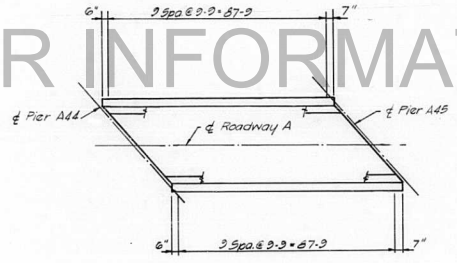
PLAN
Parapet Joint Spacing
Span A45

BILL OF MATERIAL				
*BAR	NO	SIZE	LENGTH	SHAPE
32r1	12	#5	18-10	——
32r2	20	#5	19-9	——
32r3	2	#5	3-8	⊓
32r4	40	#5	17-5	——
32r5	24	#5	18-7	——
ITEM			UNIT	TOTAL
Class X Concrete			Cu. Yds.	22.8
Reinforcement Bars			Lbs.	1850
Aluminum Handrail			Lin. Ft.	449

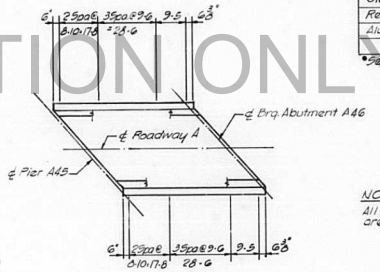
*See Note x Sheet No. 27



PLAN
Handrail Post Spacing

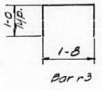


PLAN
Handrail Post Spacing



PLAN
Handrail Post Spacing

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



Bar r3

NOTES:
For Detail at Light Std. see Sheet No. 27
For Handrail and Parapet Joint Details see Sheet No. 40

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

PARAPET AND HANDRAIL

SPANS A43 THRU A45

POPLAR STREET BRIDGE APPROACHES

ROADWAY "A"

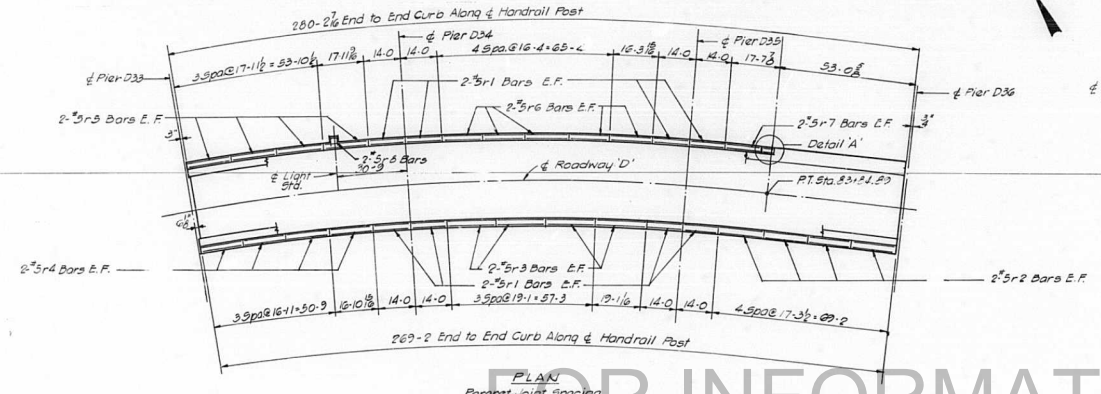
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-3

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

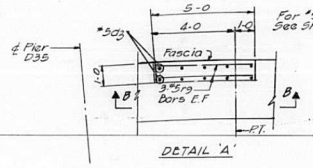
SHEET 32 OF 163

DESIGNED BY A.T.
DRAWN BY V.T.
CHECKED BY W.J.F.
APPROVED BY K.A.

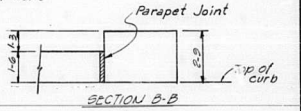
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82-3HVB-3	ST. CLAIR	262	100
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



PLAN
Parapet Joint Spacing
Spans D33 thru D36



DETAIL 'A'



SECTION B-B

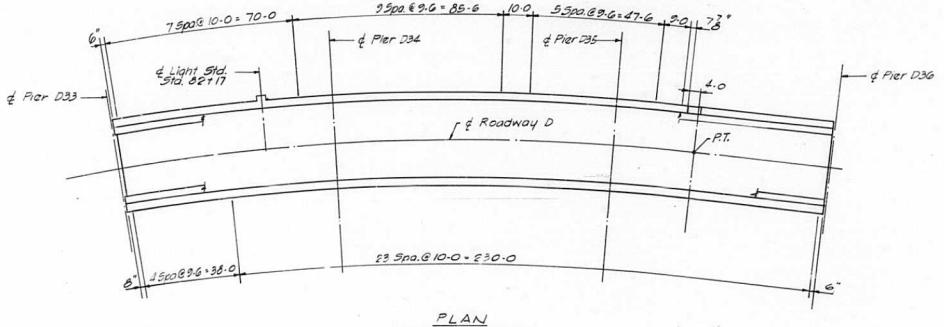
NOTE: All dimensions in plan are along ℄ of post.

BILL OF MATERIAL

*BAR	NO	SIZE	LENGTH	SHAPE
33r1	32	#5	19-8	—
33r2	16	#5	17-0	—
33r3	16	#5	18-9	—
33r4	16	#5	16-7	—
33r5	16	#5	17-7	—
33r6	20	#5	16-0	—
33r7	4	#5	17-4	—
33r8	2	#6	3-8	□
33r9	6	#5	4-8	—

ITEM	UNIT	TOTAL
Class X Concrete	Cu Yds	28.0
Reinforcement Bars	Lbs.	2070
Aluminum Handrail	Lin. Ft.	493

* See Note 'X' Sheet No. 27



PLAN
Handrail Post Spacing

NOTES:
For Detail at Light Std. See Sheet No. 27
For Handrail and Parapet Joint Details see Sheet No. 40

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

PARAPET AND HANDRAIL

SPANS D33 THRU D35
POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

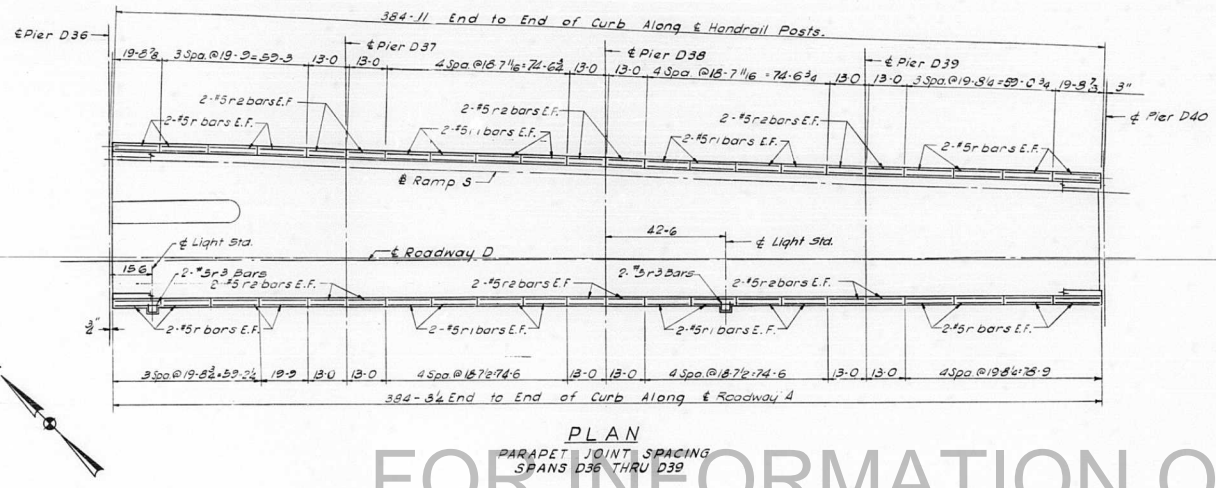
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-3

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

SHEET 33 of 163

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82-3HVB-3	ST. CLAIR	262	101
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



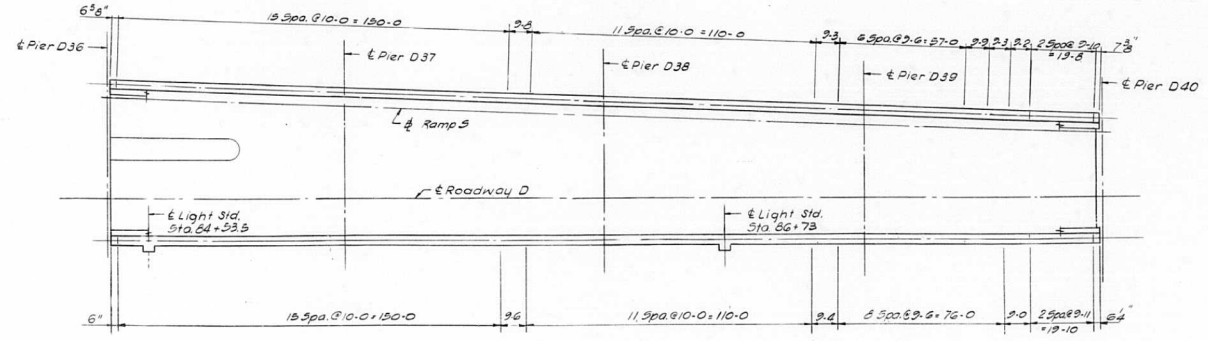
PLAN
PARAPET JOINT SPACING
SPANS D36 THRU D39

BILL OF MATERIAL

*Bar	No.	Size	Length	Shape
34 r	64	#5	13'-5	——
34 r1	64	#5	13'-4	——
34 r2	48	#5	12'-8	——
34 r3	4	#3	3'-8	⌴

Item	Unit	Total
Class "K" Concrete	Cu.Yds.	39.2
Reinforcement Bars	Lbs.	3170.0
Aluminum Handrail	Lin. Ft.	770.0

*See Note "K" Sheet No. 27



PLAN
HANDRAIL POST SPACING
SPANS D36 THRU D39

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

NOTES:
For Detail of Light Std. see Sheet No. 27
For Handrail & Parapet Joint Details see Sheet No. 40

DESIGNED BY A.T.
DRAWN BY I.M.
CHECKED BY W.J.F.
APPROVED BY K.A.

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

PARAPET AND HANDRAIL

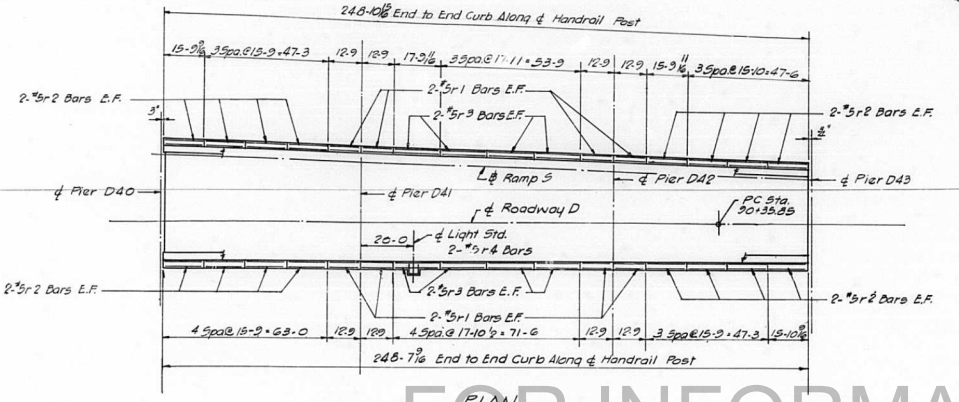
SPANS D36 THRU D39
POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

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

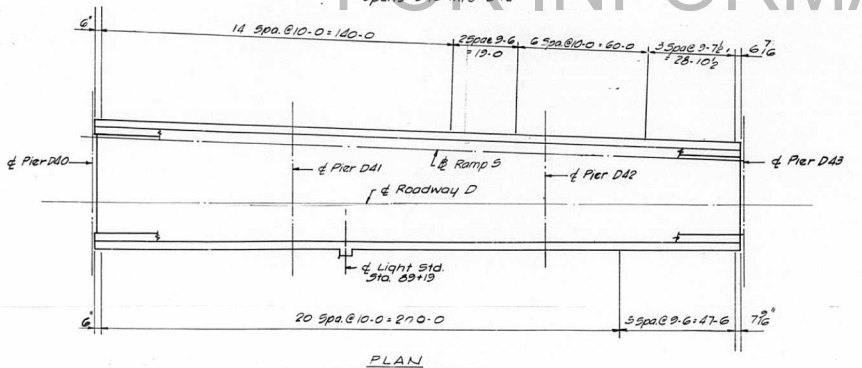
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 34 OF 163

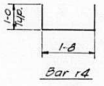
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	102
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	



PLAN
Parapet Joint Spacing
Spans D40 thru D42



PLAN
Handrail Post Spacing
Spans D40 thru D42



Bar r4

BILL OF MATERIAL				
*BAR	NO	SIZE	LENGTH	SHAPE
35 r1	32	#5	12-5	—
35 r2	64	#5	15-6	—
35 r3	32	#5	17-6	—
35 r4	2	#5	3-8	⌴
ITEM			UNIT	TOTAL
Class X Concrete			Cu Yd.	25.3
Reinforcement Bars			Lbs	2040
Aluminum Handrail			Lin. Ft.	498

* See Note X Sheet No. 27

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

NOTES:
For Detail at Light Std. see Sheet No. 27
For Handrail and Parapet Joint Details see Sheet No. 40

DESIGNED BY R.M.R
DRAWN BY V.P.
CHECKED BY W.M.F
APPROVED BY K.A.

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

PARAPET AND HANDRAIL

SPANS D40 THRU D42

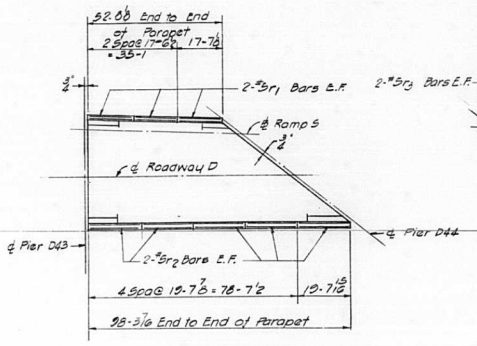
POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

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

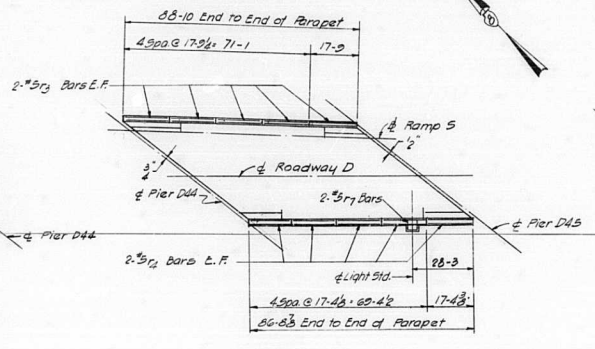
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 35 of 163

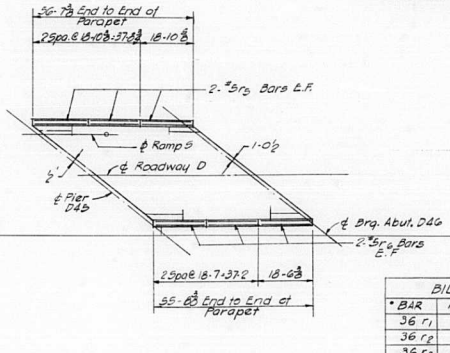
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82-3HVB-3	ST. CLAIR	262	103
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



PLAN
Parapet Joint Spacing
Span D43



PLAN
Parapet Joint Spacing
Span D44



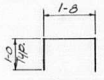
PLAN
Parapet Joint Spacing
Span D45

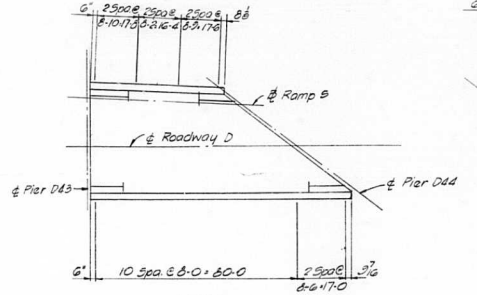
BILL OF MATERIAL

*BAR	NO	SIZE	LENGTH	SHAPE
36 r1	12	#5	17-2	——
36 r2	20	#5	19-2	——
36 r3	20	#5	17-5	——
36 r4	20	#5	17-0	——
36 r5	12	#5	18-6	——
36 r6	12	#5	18-3	——
36 r7	2	#5	3-8	⊓
ITEM		UNIT	TOTAL	
Class X Concrete		Cu.Yds	22.5	
Reinforcement Bars		Lbs	1800	
Aluminum Handrail		Lin.Ft.	439	

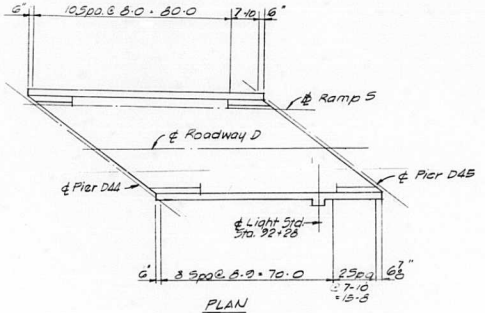
*See Note 'X' Sheet No. 27

NOTE:
All dimensions in plan are along ℄ of posts.

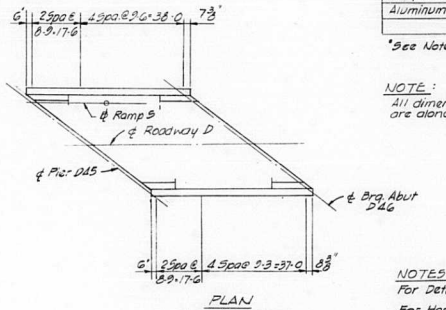




PLAN
Handrail Post Spacing
Span D43



PLAN
Handrail Post Spacing
Span D44



PLAN
Handrail Post Spacing
Span D45

NOTES:
For Detail of Light Std. see Sheet No. 27
For Handrail and Parapet Joint Details see Sheet No. 40

DESIGNED BY A.T.
DRAWN BY V.T.
CHECKED BY W.J.F.
APPROVED BY E.A.

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

PARAPET AND HANDRAIL

SPANS D43 THRU D45

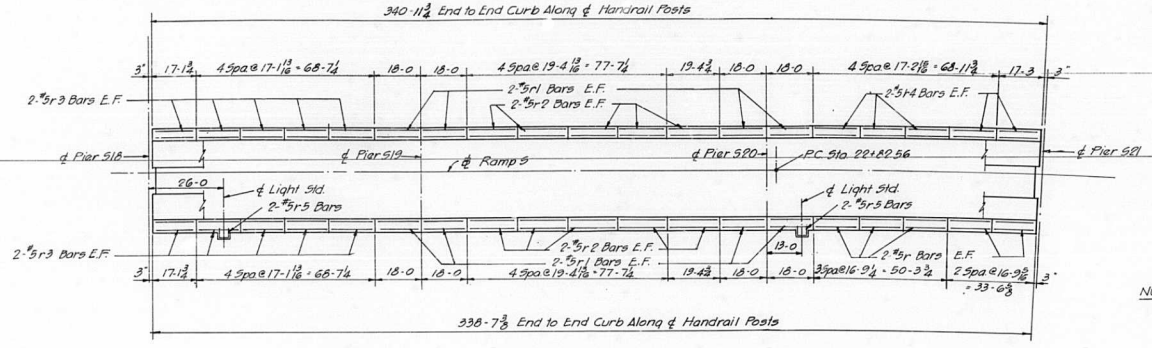
POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

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

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

SHEET
36 of 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	2G2	104
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



PLAN
Parapet Joint Spacing
Spans 519 thru 521

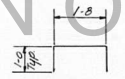
NOTE: All dimensions in plan are along ℄ of post.

BILL OF MATERIAL

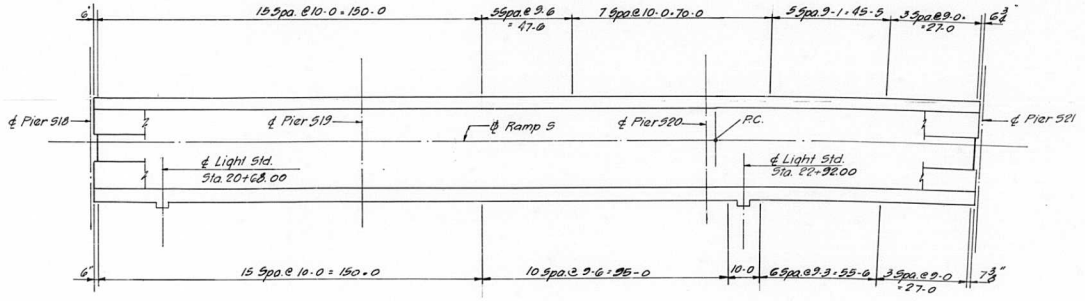
* BAR	NO	SIZE	LENGTH	SHAPE
37 r	20	#5	16-5	——
37 r1	32	#5	17-3	——
37 r2	40	#5	19-1	——
37 r3	40	#5	16-10	——
37 r4	20	#5	16-11	——
37 r5	4	#5	3-8	⊓

ITEM	UNIT	TOTAL
Class 'X' Concrete	Cu. Yds.	34.7
Reinforcement Bars	Lbs.	2800
Aluminum Handrail	Lin. Ft.	681

* See Note 'X' Sheet No. 27



Bar r5



PLAN
Handrail Post Spacing

NOTES:
For Details at Light Std. see Sheet No. 27
For Handrail & Parapet Joint Details see Sheet No. 40

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

PARAPET AND HANDRAIL
SPANS S19 THRU S21
POPLAR STREET BRIDGE APPROACHES
RAMP "S"

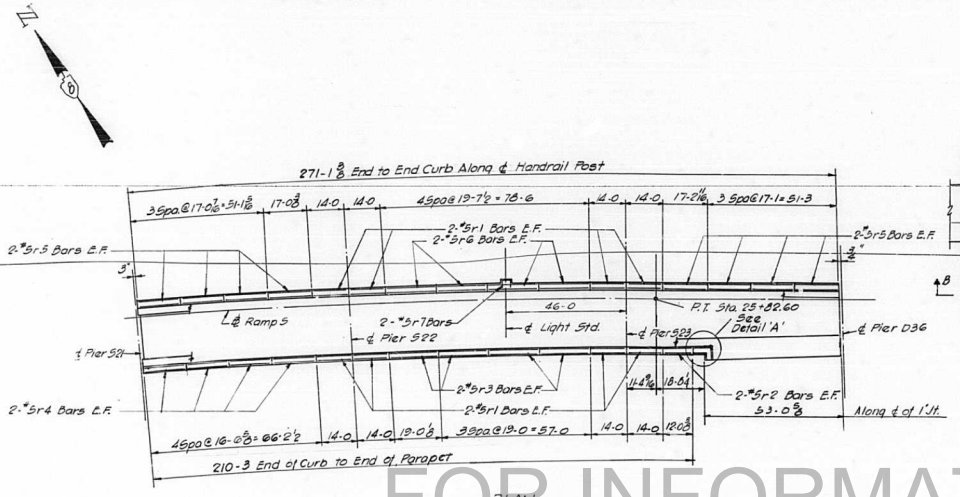
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-3

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

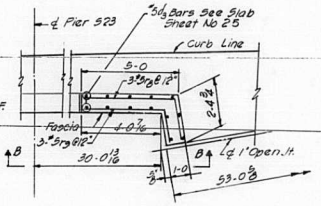
SHEET 37 OF 163

DESIGNED BY A.T.
DRAWN BY V.T.
CHECKED BY W.J.F.
APPROVED BY K.A.

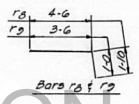
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I.–70	82–3HVB–3	ST. CLAIR	202	105
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



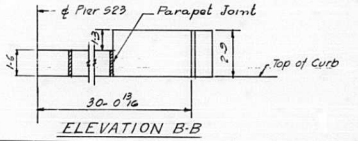
PLAN
Parapet Joint Spacing
Spans S22, S23, & D36S



DETAIL 'A'



Bars r8 & r9

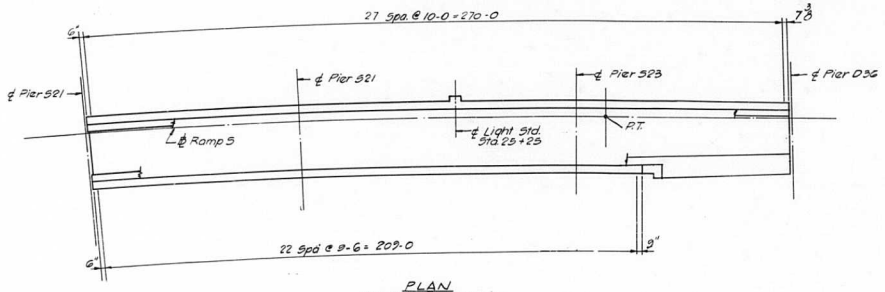


ELEVATION B-B

BILL OF MATERIAL				
*BAR	NO	SIZE	LENGTH	SHAPE
38r1	32	#5	13-8	—
38r2	4	#5	11-8	—
38r3	16	#5	18-8	—
38r4	16	#5	16-2	—
38r5	32	#5	16-9	—
38r6	16	#5	19-3	—
38r7	2	#5	3-8	⊓
38r8	3	#5	6-4	⌐
38r9	3	#5	4-6	⌐
ITEM			UNIT	TOTAL
Class X Concrete			Cu. Yd.	15.1
Reinforcement Bars			LDS	2,010
Aluminum Handrail			Lin. Ft.	482

* See Note 'x' Sheet No. 27

Bar r7



PLAN
Handrail Post Spacing

NOTE:
All dimensions in plan are along ℄ post except as noted.

NOTES:
For Detail at Light Std. see Sheet. No. 27
For Handrail and Parapet Joint Detail see Sheet No. 40

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

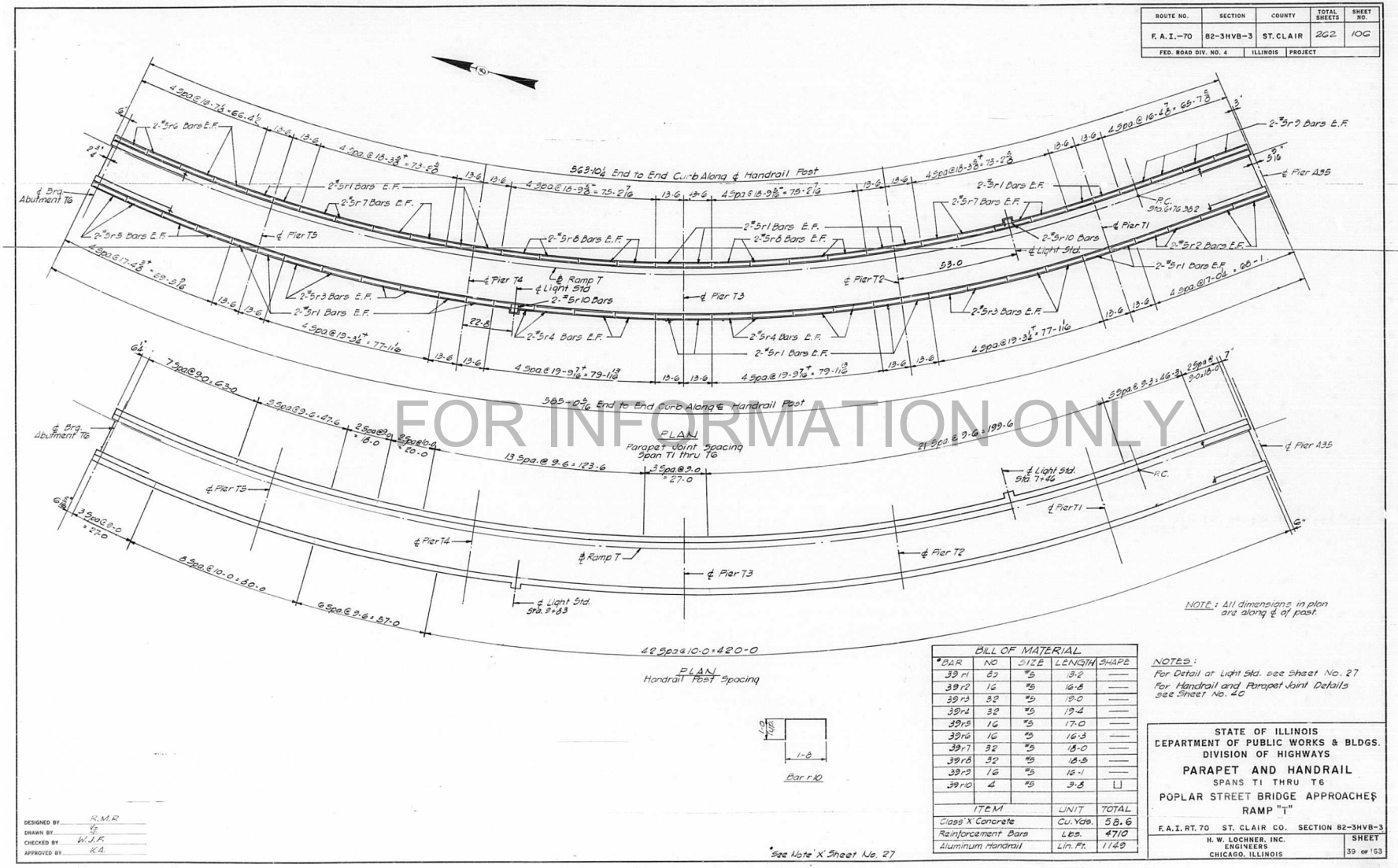
PARAPET AND HANDRAIL
SPANS S22, S23 AND D36S
POPLAR STREET BRIDGE APPROACHES
RAMP "S"

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

H. W. LOCHNER, INC. ENGINEERS CHICAGO, ILLINOIS	SHEET 38 OF 163

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I.—70	82-3HVB-3	ST. CLAIR	262	106
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



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

BILL OF MATERIAL				
*BAR	NO	SIZE	LENGTH	SHAPE
39r1	62	#5	13-2	—
39r2	16	#5	16-8	—
39r3	32	#5	19-0	—
39r4	32	#5	19-4	—
39r5	16	#5	17-0	—
39r6	16	#5	16-3	—
39r7	32	#5	18-0	—
39r8	32	#5	18-9	—
39r9	16	#5	18-1	—
39r10	4	#5	3-8	⊔
ITEM			UNIT	TOTAL
Class 'X' Concrete			Cu. Yds.	58.6
Reinforcement Bars			Lbs.	4710
Aluminum Handrail			Lin. Ft.	1149

*See Note 'X' Sheet No. 27

NOTES:
For Detail at Light Std. see Sheet No. 27
For Handrail and Parapet Joint Details see Sheet No. 20

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

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

PARAPET AND HANDRAIL

SPANS T1 THRU T6

POPLAR STREET BRIDGE APPROACHES

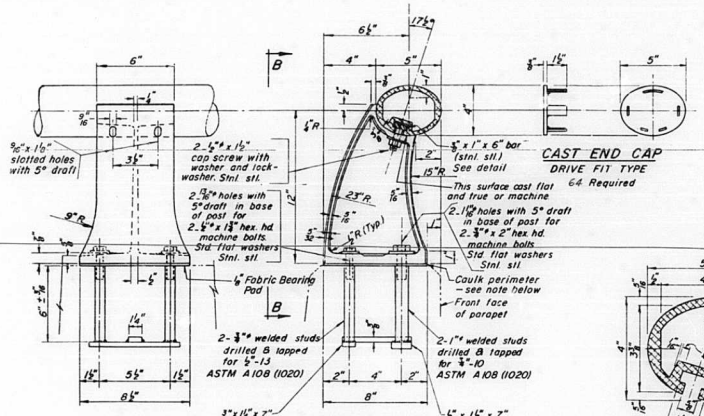
RAMP "T"

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

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

SHEET 39 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.–70	82-3HVB-3	ST. CLAIR	202	107
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

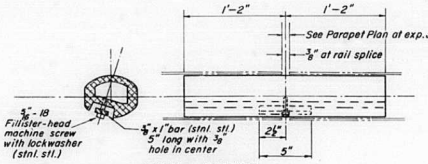


VIEW B-B

SECTION A-A

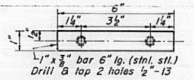
RAIL POST DETAILS

CAST END CAP
DRIVE FIT TYPE
64 Required

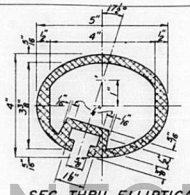


RAIL SPLICE

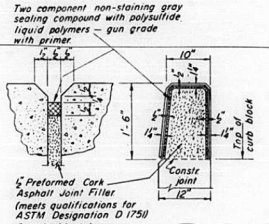
Notch abutting ends of rails to clear ⅜" screw



DETAIL OF CLAMP BAR

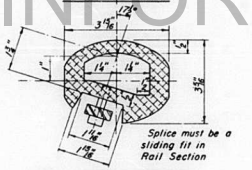


SEC. THRU ELLIPTICAL RAIL SECTION



PARAPET JOINT DETAIL

Cost incidental.



SEC. THRU SPLICE

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.

NOTES

All Posts shall be normal to parapet.

All Aluminum Alloy Extruded Rail shall conform to ASTM specification B-221 alloy 6061-T6 and shall extend a minimum of 2 panel lengths (attached to 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.

See Special Provisions for following Material Specifications:

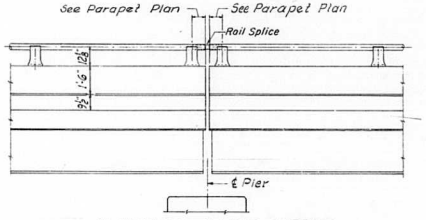
Cast Aluminum Alloy Bridge Post– Alloy A344–T4.
Stainless Steel Bars, Cap Screws, Washers and Lockwashers.
Fabric Bearing Pad.

METHOD of MEASUREMENT: Aluminum handrail shall be measured in lineal feet. The length paid for shall be the over all length along the top longitudinal railing member thru all posts and gaps.

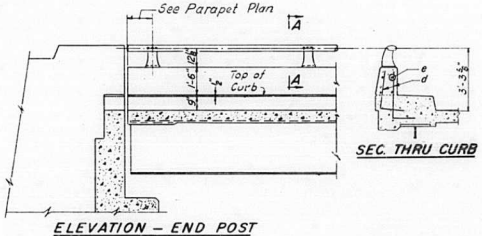
BASIS of PAYMENT: Aluminum handrail shall be paid for at the contract unit price per lineal foot for ALUMINUM HANDRAIL, measured as specified, which price shall be payment in full for all materials, fabrication, transportation, and erection.

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.



ELEVATION AT EXP. PIERS



SEC. THRU CURB

ELEVATION – END POST

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

ALUMINUM HANDRAIL

POPLAR STREET BRIDGE APPROACHES

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

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

SHEET 40 OF 163

DESIGNED BY CMR
DRAWN BY JW
CHECKED BY CMR
APPROVED BY KA

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVB-3	ST. CLAIR	262	108
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
1.0	7845.304	- 16.000	469.584	469.584
	7845.319	- 8.000	468.943	468.943
	7845.334	- .000	468.303	468.303
	7845.350	8.000	467.663	467.663
	7845.366	16.000	467.022	467.022
1.5	7853.667	- 16.000	469.333	469.345
	7853.667	- 7.926	468.687	468.699
	7853.667	.073	468.047	468.059
	7853.667	8.072	467.407	467.419
	7853.667	16.000	466.773	466.785
2.0	7862.000	- 16.000	469.083	469.105
	7862.000	- 7.952	468.439	468.461
	7862.000	.048	467.799	467.821
	7862.000	8.047	467.159	467.181
	7862.000	16.000	466.523	466.545
2.5	7871.500	- 16.000	468.798	468.826
	7871.500	- 7.946	468.154	468.181
	7871.500	.053	467.514	467.542
	7871.500	8.052	466.874	466.902
	7871.500	16.000	466.238	466.266
3.0	7881.000	- 16.000	468.513	468.541
	7881.000	- 7.957	467.870	467.898
	7881.000	.043	467.230	467.258
	7881.000	8.042	466.590	466.618
	7881.000	16.000	465.953	465.981
3.5	7890.500	- 16.000	468.228	468.251
	7890.500	- 7.978	467.586	467.609
	7890.500	.022	466.946	466.969
	7890.500	8.021	466.306	466.329
	7890.500	16.000	465.668	465.691
4.0	7900.000	- 16.000	467.943	467.957
	7900.000	- 7.934	467.298	467.312
	7900.000	.068	466.658	466.672
	7900.000	8.065	466.018	466.032
	7900.000	16.000	465.383	465.397
4.5	7909.500	- 16.000	467.658	467.663
	7909.500	- 7.868	467.007	467.013
	7909.500	.130	466.368	466.373
	7909.500	8.129	465.728	465.733
	7909.500	16.000	465.098	465.103
5.0	7919.000	- 16.000	467.373	467.373
	7919.000	- 7.934	466.728	466.728
	7919.000	.066	466.088	466.088
	7919.000	8.065	465.448	465.448
	7919.000	16.000	464.813	464.813
5.5	7928.200	- 16.000	467.097	467.101
	7928.200	- 7.950	466.453	466.458
	7928.200	.049	465.813	465.818
	7928.200	8.048	465.173	465.178
	7928.200	16.000	464.537	464.541
6.0	7937.400	- 16.000	466.821	466.833
	7937.400	- 7.958	466.178	466.190
	7937.400	.041	465.538	465.550
	7937.400	8.041	464.898	464.910
	7937.400	16.000	464.261	464.273
6.5	7946.600	- 16.000	466.545	466.565
	7946.600	- 7.911	465.898	465.918
	7946.600	.088	465.258	465.278
	7946.600	8.087	464.618	464.638
	7946.600	16.000	463.985	464.005
7.0	7955.800	- 16.000	466.269	466.295
	7955.800	- 7.850	465.617	465.643
	7955.800	.148	464.977	465.004
	7955.800	8.146	464.337	464.364
	7955.800	16.000	463.709	463.735
7.5	7965.000	- 16.000	465.993	466.021
	7965.000	- 7.911	465.346	465.374
	7965.000	.088	464.706	464.734
	7965.000	8.087	464.066	464.095
	7965.000	16.000	463.433	463.461
8.0	7974.200	- 16.000	465.717	465.743
	7974.200	- 7.958	465.074	465.099
	7974.200	.041	464.434	464.459
	7974.200	8.041	463.794	463.819
	7974.200	16.000	463.157	463.183
8.5	7983.400	- 16.000	465.441	465.480
	7983.400	- 7.950	464.797	464.816
	7983.400	.049	464.157	464.176
	7983.400	8.048	463.517	463.536
	7983.400	16.000	462.881	462.900
9.0	7992.600	- 16.000	465.165	465.176
	7992.600	- 7.935	464.520	464.531
	7992.600	.064	463.880	463.891
	7992.600	8.063	463.240	463.251
	7992.600	16.000	462.605	462.616
9.5	8001.800	- 16.000	464.889	464.893
	8001.800	- 7.874	464.239	464.243
	8001.800	.124	463.599	463.603
	8001.800	8.123	462.959	462.963
	8001.800	16.000	462.329	462.333
10.0	8011.000	- 16.000	464.613	464.613
	8011.000	- 7.935	463.968	463.968
	8011.000	.064	463.328	463.328
	8011.000	8.063	462.688	462.688
	8011.000	16.000	462.053	462.053
10.5	8021.000	- 16.000	464.313	464.321
	8021.000	- 7.939	463.668	463.676
	8021.000	.060	463.028	463.036
	8021.000	8.059	462.388	462.396
	8021.000	16.000	461.753	461.761
11.0	8031.000	- 16.000	464.004	464.023
	8031.000	- 7.954	463.365	463.384
	8031.000	.046	462.729	462.749
	8031.000	8.045	462.093	462.112
	8031.000	16.000	461.460	461.479
11.5	8041.000	- 16.000	463.626	463.657
	8041.000	- 7.939	463.028	463.059
	8041.000	.060	462.428	462.459
	8041.000	8.059	461.823	461.853
	8041.000	16.000	461.215	461.246
12.0	8051.000	- 16.000	463.249	463.288
	8051.000	- 7.954	462.693	462.732
	8051.000	.046	462.130	462.169
	8051.000	8.045	461.554	461.593
	8051.000	16.000	460.971	461.010
12.5	8061.000	- 16.000	462.871	462.913
	8061.000	- 7.939	462.356	462.398
	8061.000	.060	461.829	461.871
	8061.000	8.059	461.284	461.326
	8061.000	16.000	460.727	460.769
13.0	8071.000	- 16.000	462.494	462.532
	8071.000	- 7.954	462.021	462.059
	8071.000	.046	461.530	461.568
	8071.000	8.045	461.015	461.054
	8071.000	16.000	460.483	460.521
13.5	8081.000	- 16.000	462.116	462.146
	8081.000	- 7.974	461.688	461.716
	8081.000	.026	461.232	461.261
	8081.000	8.025	460.747	460.777
	8081.000	16.000	460.239	460.268
14.0	8091.000	- 16.000	461.739	461.757
	8091.000	- 7.975	461.350	461.368
	8091.000	.025	460.932	460.950
	8091.000	8.024	460.478	460.496
	8091.000	16.000	459.995	460.013
14.5	8101.000	- 16.000	461.361	461.368
	8101.000	- 7.976	461.014	461.021
	8101.000	.023	460.632	460.639
	8101.000	8.023	460.208	460.216
	8101.000	16.000	459.750	459.758

NOTES

Girders and Stringers are identified in the Tables by Offset.
Floor Beam 1.5 indicates a line half way between Floor Beam 1 and Floor Beam 2.
Elevations in the Tables are given to the extended roadway when the points are at the curb or median.

DESIGNED BY
DRAWN BY A.C.
CHECKED BY A.J.C.
APPROVED BY K.A.

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

TABLES OF ELEVATIONS
SPANS A29 THRU A31
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

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

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

SHEET 41 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVB-3	ST. CLAIR	262	109
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
15.0	8111.000	- 16.000	460.984	460.984
	8111.000	- 7.983	460.678	460.678
	8111.000	.016	460.332	460.332
	8111.000	8.016	459.939	459.939
	8111.000	16.000	459.506	459.506

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
15.5	8121.000	- 16.000	460.606	460.617
	8121.000	- 7.990	460.342	460.353
	8121.000	.010	460.033	460.043
	8121.000	8.010	459.670	459.681
	8121.000	16.000	459.262	459.273

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
16.0	8131.000	- 16.000	460.229	460.254
	8131.000	- 7.997	460.007	460.032
	8131.000	.003	459.733	459.758
	8131.000	8.003	459.401	459.426
	8131.000	16.000	459.018	459.043

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
16.5	8141.000	- 16.000	459.855	459.895
	8141.000	- 8.000	459.674	459.714
	8141.000	- .000	459.437	459.477
	8141.000	8.000	459.135	459.175
	8141.000	16.000	458.777	458.818

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
17.0	8151.000	- 16.000	459.484	459.536
	8151.000	- 8.000	459.344	459.396
	8151.000	- .000	459.143	459.195
	8151.000	8.000	458.872	458.924
	8151.000	16.000	458.540	458.592

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
17.5	8161.000	- 16.000	459.116	459.174
	8161.000	- 8.000	459.018	459.075
	8161.000	- .000	458.853	458.910
	8161.000	8.000	458.612	458.670
	8161.000	16.000	458.305	458.363

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
18.0	8171.000	- 16.000	458.752	458.805
	8171.000	- 8.000	458.695	458.748
	8171.000	- .000	458.566	458.619
	8171.000	8.000	458.356	458.409
	8171.000	16.000	458.074	458.128

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
18.5	8181.000	- 16.000	458.391	458.433
	8181.000	- 8.000	458.375	458.417
	8181.000	- .000	458.282	458.325
	8181.000	8.000	458.103	458.145
	8181.000	16.000	457.846	457.889

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
19.0	8191.000	- 16.000	458.033	458.060
	8191.000	- 8.000	458.058	458.085
	8191.000	- .000	458.002	458.029
	8191.000	8.000	457.853	457.880
	8191.000	16.000	457.622	457.649

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
19.5	8201.000	- 16.000	457.678	457.689
	8201.000	- 8.000	457.744	457.756
	8201.000	- .000	457.725	457.736
	8201.000	8.000	457.606	457.617
	8201.000	16.000	457.400	457.412

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
20.0	8211.000	- 16.000	457.326	457.326
	8211.000	- 8.000	457.434	457.434
	8211.000	- .000	457.451	457.451
	8211.000	8.000	457.362	457.362
	8211.000	16.000	457.182	457.182

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
20.5	8220.200	- 16.000	457.006	457.011
	8220.200	- 8.000	457.152	457.157
	8220.200	- .000	457.201	457.206
	8220.200	8.000	457.141	457.146
	8220.200	16.000	456.984	456.989

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
21.0	8229.400	- 16.000	456.747	456.761
	8229.400	- 8.000	456.900	456.913
	8229.400	- .000	456.955	456.969
	8229.400	8.000	456.900	456.913
	8229.400	16.000	456.747	456.761

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
21.5	8238.600	- 16.000	456.503	456.527
	8238.600	- 8.000	456.656	456.680
	8238.600	- .000	456.711	456.735
	8238.600	8.000	456.656	456.680
	8238.600	16.000	456.503	456.527

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
22.0	8247.800	- 16.000	456.262	456.294
	8247.800	- 8.000	456.415	456.447
	8247.800	- .000	456.470	456.502
	8247.800	8.000	456.415	456.447
	8247.800	16.000	456.262	456.294

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
22.5	8257.000	- 16.000	456.024	456.060
	8257.000	- 8.000	456.177	456.212
	8257.000	- .000	456.232	456.268
	8257.000	8.000	456.177	456.212
	8257.000	16.000	456.024	456.060

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
23.0	8266.200	- 16.000	455.789	455.822
	8266.200	- 8.000	455.941	455.974
	8266.200	- .000	455.997	456.030
	8266.200	8.000	455.941	455.974
	8266.200	16.000	455.789	455.822

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
23.5	8275.400	- 16.000	455.556	455.582
	8275.400	- 8.000	455.709	455.734
	8275.400	- .000	455.764	455.790
	8275.400	8.000	455.709	455.734
	8275.400	16.000	455.556	455.582

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
24.0	8284.600	- 16.000	455.326	455.342
	8284.600	- 8.000	455.479	455.495
	8284.600	- .000	455.534	455.550
	8284.600	8.000	455.479	455.495
	8284.600	16.000	455.326	455.342

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
24.5	8293.800	- 16.000	455.099	455.105
	8293.800	- 8.000	455.252	455.258
	8293.800	- .000	455.307	455.313
	8293.800	8.000	455.252	455.258
	8293.800	16.000	455.099	455.105

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
25.0	8303.000	- 16.000	454.875	454.875
	8303.000	- 8.000	455.027	455.027
	8303.000	- .000	455.083	455.083
	8303.000	8.000	455.027	455.027
	8303.000	16.000	454.875	454.875

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
25.5	8312.500	- 16.000	454.646	454.653
	8312.500	- 8.000	454.799	454.806
	8312.500	- .000	454.854	454.861
	8312.500	8.000	454.799	454.806
	8312.500	16.000	454.646	454.653

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
26.0	8322.000	- 16.000	454.420	454.438
	8322.000	- 8.000	454.573	454.590
	8322.000	- .000	454.628	454.646
	8322.000	8.000	454.573	454.590
	8322.000	16.000	454.420	454.438

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
26.5	8331.500	- 16.000	454.197	454.224
	8331.500	- 8.000	454.349	454.377
	8331.500	- .000	454.405	454.432
	8331.500	8.000	454.349	454.377
	8331.500	16.000	454.197	454.224

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
27.0	8341.000	- 16.000	453.974	454.007
	8341.000	- 8.000	454.126	454.160
	8341.000	- .000	454.182	454.215
	8341.000	8.000	454.126	454.160
	8341.000	16.000	453.974	454.007

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
27.5	8350.500	- 16.000	453.751	453.784
	8350.500	- 8.000	453.903	453.936
	8350.500	- .000	453.959	453.992
	8350.500	8.000	453.903	453.936
	8350.500	16.000	453.751	453.784

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
28.0	8360.000	- 16.000	453.527	453.553
	8360.000	- 8.000	453.680	453.706
	8360.000	- .000	453.735	453.761
	8360.000	8.000	453.680	453.706
	8360.000	16.000	453.527	453.553

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
28.5	8368.333	- 16.000	453.332	453.346
	8368.333	- 8.000	453.484	453.498
	8368.333	- .000	453.540	453.554
	8368.333	8.000	453.484	453.498
	8368.333	16.000	453.332	453.346

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
29.0	8376.666	- 16.000	453.136	453.136
	8376.666	- 8.000	453.288	453.288
	8376.666	- .000	453.344	453.344
	8376.666	8.000	453.288	453.288
	8376.666	16.000	453.136	453.136

Note
For Notes see Sh. No. 41

DESIGNED BY
DRAWN BY A.C.
CHECKED BY A.J.C.
APPROVED BY K.A.

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

TABLES OF ELEVATIONS
SPANS A 32 THRU A34
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

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

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

SHEET
42 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	110
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
30.0	8379.334	- 53.151	451.844	451.844
	8379.334	- 45.467	452.110	452.110
	8379.334	- 37.784	452.372	452.372
	8379.334	- 30.100	452.632	452.632
	8379.334	- 22.417	452.940	452.940
	8379.334	- 14.734	453.100	453.100
	8379.334	- 7.050	453.238	453.238
	8379.334	.633	453.281	453.281
	8379.334	8.317	453.221	453.221
	8379.334	16.000	453.073	453.073

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
30.5	8384.833	- 52.619	451.781	451.796
	8384.833	- 45.172	452.028	452.043
	8384.833	- 37.526	452.272	452.287
	8384.833	- 29.879	452.513	452.527
	8384.833	- 22.233	452.814	452.829
	8384.833	- 14.586	452.973	452.988
	8384.833	- 6.940	453.110	453.125
	8384.833	.707	453.152	453.167
	8384.833	8.353	453.092	453.106
	8384.833	16.000	452.944	452.959

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
31.0	8390.333	- 52.487	451.715	451.743
	8390.333	- 44.877	451.943	451.971
	8390.333	- 37.268	452.168	452.196
	8390.333	- 29.658	452.390	452.418
	8390.333	- 22.048	452.689	452.717
	8390.333	- 14.439	452.847	452.876
	8390.333	- 6.829	452.982	453.011
	8390.333	.781	453.022	453.051
	8390.333	8.390	452.962	452.990
	8390.333	16.000	452.815	452.843

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
31.5	8399.667	- 51.924	451.595	451.642
	8399.667	- 44.377	451.791	451.838
	8399.667	- 36.830	451.985	452.032
	8399.667	- 29.283	452.175	452.222
	8399.667	- 21.736	452.476	452.523
	8399.667	- 14.188	452.633	452.680
	8399.667	- 6.641	452.765	452.812
	8399.667	.906	452.803	452.850
	8399.667	8.453	452.742	452.789
	8399.667	16.000	452.596	452.643

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
32.0	8409.000	- 51.361	451.465	451.522
	8409.000	- 43.676	451.630	451.687
	8409.000	- 36.392	451.793	451.849
	8409.000	- 28.907	451.952	452.009
	8409.000	- 21.423	452.264	452.320
	8409.000	- 13.938	452.419	452.476
	8409.000	- 6.454	452.548	452.605
	8409.000	1.031	452.583	452.640
	8409.000	8.515	452.522	452.578
	8409.000	16.000	452.376	452.433

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
32.5	8419.333	- 50.798	451.320	451.377
	8418.333	- 43.376	451.466	451.523
	8418.333	- 35.954	451.613	451.670
	8418.333	- 28.532	451.759	451.816
	8418.333	- 21.110	452.051	452.108
	8418.333	- 13.688	452.205	452.262
	8418.333	- 6.266	452.331	452.388
	8418.333	1.156	452.364	452.421
	8418.333	8.578	452.301	452.358
	8418.333	16.000	452.157	452.214

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
33.0	8427.667	- 50.235	451.155	451.204
	8427.667	- 42.875	451.300	451.349
	8427.667	- 35.516	451.445	451.494
	8427.667	- 28.157	451.589	451.638
	8427.667	- 20.797	451.838	451.887
	8427.667	- 13.438	451.991	452.040
	8427.667	- 6.078	452.114	452.163
	8427.667	1.281	452.144	452.193
	8427.667	8.641	452.081	452.130
	8427.667	16.000	451.938	451.987

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
33.5	8437.000	- 49.672	450.981	451.015
	8437.000	- 42.375	451.124	451.158
	8437.000	- 35.078	451.267	451.301
	8437.000	- 27.781	451.410	451.444
	8437.000	- 20.484	451.625	451.660
	8437.000	- 13.187	451.777	451.812
	8437.000	- 5.891	451.897	451.931
	8437.000	1.406	451.925	451.959
	8437.000	8.703	451.861	451.895
	8437.000	16.000	451.719	451.753

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
34.0	8446.333	- 49.109	450.797	450.815
	8446.333	- 41.874	450.938	450.956
	8446.333	- 34.640	451.080	451.098
	8446.333	- 27.406	451.221	451.239
	8446.333	- 20.171	451.413	451.431
	8446.333	- 12.937	451.563	451.581
	8446.333	- 5.703	451.679	451.697
	8446.333	1.531	451.705	451.724
	8446.333	8.766	451.641	451.659
	8446.333	16.000	451.499	451.518

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
34.5	8455.667	- 48.546	450.603	450.609
	8455.667	- 41.374	450.743	450.749
	8455.667	- 34.202	450.883	450.888
	8455.667	- 27.030	451.022	451.028
	8455.667	- 19.859	451.200	451.206
	8455.667	- 12.687	451.349	451.356
	8455.667	- 5.515	451.462	451.467
	8455.667	1.657	451.486	451.491
	8455.667	8.828	451.421	451.426
	8455.667	16.000	451.280	451.286

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
35.0	8465.000	- 47.982	450.396	450.396
	8465.000	- 40.873	450.544	450.544
	8465.000	- 33.764	450.691	450.691
	8465.000	- 26.655	450.839	450.839
	8465.000	- 19.546	450.987	450.987
	8465.000	- 12.437	451.135	451.135
	8465.000	- 5.327	451.244	451.244
	8465.000	1.782	451.266	451.266
	8465.000	8.891	451.200	451.200
	8465.000	16.000	451.061	451.061

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
35.5	8474.333	- 47.419	450.188	450.189
	8474.333	- 40.373	450.335	450.336
	8474.333	- 33.326	450.481	450.482
	8474.333	- 26.280	450.628	450.629
	8474.333	- 19.233	450.774	450.775
	8474.333	- 12.186	450.921	450.922
	8474.333	- 5.140	451.027	451.028
	8474.333	1.907	451.047	451.047
	8474.333	8.953	450.980	450.981
	8474.333	16.000	450.842	450.843

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
36.0	8483.667	- 46.856	449.981	449.990
	8483.667	- 39.872	450.126	450.135
	8483.667	- 32.888	450.271	450.280
	8483.667	- 25.904	450.416	450.426
	8483.667	- 18.920	450.562	450.571
	8483.667	- 11.936	450.707	450.716
	8483.667	- 4.952	450.809	450.818
	8483.667	2.032	450.827	450.836
	8483.667	9.016	450.760	450.769
	8483.667	16.000	450.622	450.632

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
36.5	8493.000	- 46.293	449.773	449.786
	8493.000	- 39.372	449.917	449.940
	8493.000	- 32.450	450.061	450.084
	8493.000	- 25.529	450.205	450.228
	8493.000	- 18.607	450.349	450.372
	8493.000	- 11.686	450.493	450.516
	8493.000	- 4.764	450.592	450.614
	8493.000	2.157	450.607	450.630
	8493.000	9.079	450.540	450.562
	8493.000	16.000	450.403	450.426

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
37.0	8502.333	- 45.730	449.566	449.603
	8502.333	- 38.871	449.708	449.745
	8502.333	- 32.012	449.851	449.888
	8502.333	- 25.153	449.994	450.031
	8502.333	- 18.295	450.136	450.173
	8502.333	- 11.436	450.279	450.316
	8502.333	- 4.577	450.374	450.411
	8502.333	2.282	450.387	450.425
	8502.333	9.141	450.320	450.357
	8502.333	16.000	450.184	450.221

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
37.5	8511.667	- 45.167	449.358	449.407
	8511.667	- 38.371	449.499	449.548
	8511.667	- 31.574	449.641	449.689
	8511.667	- 24.778	449.782	449.831
	8511.667	- 17.982	449.924	449.972
	8511.667	- 11.185	450.064	450.113
	8511.667	- 4.389	450.156	450.205
	8511.667	2.407	450.168	450.216
	8511.667	9.204	450.099	450.148
	8511.667	16.000	449.965	450.013

NOTE: For Notes See Sh. No. 41

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

TABLES OF ELEVATIONS

SPANS A35 AND A 36
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

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

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

SHEET 43 OF 163

DESIGNED BY
DRAWN BY I.M.
CHECKED BY A.J.C.
APPROVED BY K.A.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	202	111
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
38.0	8521.000	- 44.604	449.151	449.205
	8521.000	- 37.870	449.291	449.345
	8521.000	- 31.136	449.431	449.485
	8521.000	- 24.403	449.571	449.625
	8521.000	- 17.669	449.711	449.765
	8521.000	- 10.935	449.850	449.904
	8521.000	- 4.201	449.938	449.993
	8521.000	2.532	449.948	450.002
	8521.000	9.266	449.879	449.933
	8521.000	16.000	449.746	449.800

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
38.5	8530.333	- 44.041	448.943	448.996
	8530.333	- 37.370	449.082	449.135
	8530.333	- 30.698	449.221	449.274
	8530.333	- 24.027	449.359	449.413
	8530.333	- 17.356	449.498	449.551
	8530.333	- 10.685	449.635	449.689
	8530.333	- 4.014	449.720	449.774
	8530.333	2.658	449.728	449.781
	8530.333	9.329	449.659	449.712
	8530.333	16.000	449.526	449.579

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
39.0	8539.667	- 43.478	448.736	448.781
	8539.667	- 36.869	448.873	448.918
	8539.667	- 30.260	449.010	449.056
	8539.667	- 23.652	449.148	449.193
	8539.667	- 17.043	449.285	449.331
	8539.667	- 10.435	449.421	449.466
	8539.667	- 3.826	449.502	449.548
	8539.667	2.783	449.508	449.554
	8539.667	9.391	449.439	449.484
	8539.667	16.000	449.307	449.353

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
39.5	8549.000	- 42.915	448.528	448.581
	8549.000	- 36.369	448.664	448.697
	8549.000	- 29.823	448.800	448.833
	8549.000	- 23.276	448.936	448.969
	8549.000	- 16.730	449.073	449.106
	8549.000	- 10.184	449.206	449.239
	8549.000	- 3.638	449.284	449.317
	8549.000	2.908	449.288	449.322
	8549.000	9.454	449.218	449.251
	8549.000	16.000	449.088	449.121

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
40.0	8558.333	- 42.352	448.320	448.339
	8558.333	- 35.868	448.455	448.474
	8558.333	- 29.385	448.590	448.609
	8558.333	- 22.901	448.725	448.744
	8558.333	- 16.418	448.860	448.879
	8558.333	- 9.934	448.991	449.010
	8558.333	- 3.451	449.066	449.085
	8558.333	3.033	449.069	449.087
	8558.333	9.516	448.998	449.017
	8558.333	16.000	448.869	448.887

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
40.5	8567.667	- 41.789	48.113	448.120
	8567.667	- 35.368	448.246	448.253
	8567.667	- 28.947	448.380	448.387
	8567.667	- 22.526	448.514	448.520
	8567.667	- 16.105	448.647	448.654
	8567.667	- 9.684	448.776	448.783
	8567.667	- 3.263	448.848	448.855
	8567.667	3.158	448.849	448.856
	8567.667	9.579	448.778	448.785
	8567.667	16.000	448.649	448.656

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
41.0	8577.000	- 41.225	447.905	447.905
	8577.000	- 34.867	448.038	448.038
	8577.000	- 28.509	448.170	448.170
	8577.000	- 22.150	448.302	448.302
	8577.000	- 15.792	448.434	448.434
	8577.000	- 9.434	448.561	448.561
	8577.000	- 3.075	448.630	448.630
	8577.000	3.283	448.629	448.629
	8577.000	9.642	448.558	448.558
	8577.000	16.000	448.430	448.430

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
41.5	8586.333	- 40.662	447.698	447.696
	8586.333	- 34.367	447.829	447.827
	8586.333	- 28.071	447.960	447.958
	8586.333	- 21.775	448.091	448.089
	8586.333	- 15.479	448.222	448.220
	8586.333	- 9.183	448.346	448.344
	8586.333	- 2.887	448.412	448.410
	8586.333	3.408	448.409	448.407
	8586.333	9.704	448.337	448.336
	8586.333	16.000	448.211	448.209

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
42.0	8595.667	- 40.099	447.490	447.493
	8595.667	- 33.866	447.620	447.623
	8595.667	- 27.633	447.750	447.753
	8595.667	- 21.400	447.879	447.882
	8595.667	- 15.166	448.009	448.012
	8595.667	- 8.933	448.130	448.133
	8595.667	- 2.700	448.193	448.196
	8595.667	3.533	448.189	448.192
	8595.667	9.767	448.117	448.120
	8595.667	16.000	447.992	447.995

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
42.5	8605.000	- 39.536	447.283	447.295
	8605.000	- 33.365	447.411	447.423
	8605.000	- 27.195	447.540	447.552
	8605.000	- 21.024	447.668	447.680
	8605.000	- 14.853	447.796	447.808
	8605.000	- 8.683	447.915	447.927
	8605.000	- 2.512	447.975	447.987
	8605.000	3.659	447.969	447.981
	8605.000	9.829	447.897	447.909
	8605.000	16.000	447.772	447.784

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
43.0	8614.333	- 38.973	447.075	447.097
	8614.333	- 32.865	447.202	447.224
	8614.333	- 26.757	447.329	447.351
	8614.333	- 20.649	447.456	447.478
	8614.333	- 14.541	447.584	447.605
	8614.333	- 8.432	447.700	447.722
	8614.333	- 2.324	447.756	447.778
	8614.333	3.784	447.749	447.771
	8614.333	9.892	447.676	447.698
	8614.333	16.000	447.553	447.575

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
43.5	8623.667	- 38.410	446.868	446.897
	8623.667	- 32.364	446.994	447.022
	8623.667	- 26.319	447.119	447.148
	8623.667	- 20.273	447.245	447.274
	8623.667	- 14.228	447.371	447.400
	8623.667	- 8.182	447.484	447.513
	8623.667	- 2.137	447.538	447.567
	8623.667	3.909	447.529	447.558
	8623.667	9.954	447.456	447.485
	8623.667	16.000	447.334	447.363

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
44.0	8633.000	- 37.847	446.660	446.691
	8633.000	- 31.864	446.785	446.815
	8633.000	- 25.881	446.909	446.940
	8633.000	- 19.898	447.034	447.064
	8633.000	- 13.915	447.158	447.189
	8633.000	- 7.932	447.268	447.299
	8633.000	- 1.949	447.319	447.350
	8633.000	4.034	447.309	447.339
	8633.000	10.017	447.236	447.266
	8633.000	16.000	447.115	447.145

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
44.5	8642.333	- 37.284	446.453	446.479
	8642.333	- 31.363	446.576	446.602
	8642.333	- 25.443	446.699	446.725
	8642.333	- 19.523	446.822	446.849
	8642.333	- 13.602	446.945	446.972
	8642.333	- 7.682	447.052	447.079
	8642.333	- 1.761	447.101	447.127
	8642.333	4.159	447.088	447.115
	8642.333	10.080	447.015	447.042
	8642.333	16.000	446.895	446.922

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
45.0	8651.667	- 36.721	446.245	446.262
	8651.667	- 30.863	446.367	446.383
	8651.667	- 25.005	446.489	446.505
	8651.667	- 19.147	446.611	446.627
	8651.667	- 13.289	446.733	446.749
	8651.667	- 7.431	446.836	446.853
	8651.667	- 1.574	446.882	446.898
	8651.667	4.284	446.868	446.885
	8651.667	10.142	446.795	446.811
	8651.667	16.000	446.676	446.693

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
45.5	8657.167	- 36.389	446.123	446.132
	8657.167	- 30.568	446.244	446.253
	8657.167	- 24.747	446.365	446.374
	8657.167	- 18.926	446.486	446.495
	8657.167	- 13.105	446.607	446.616
	8657.167	- 7.284	446.709	446.718
	8657.167	- 1.463	446.753	446.762
	8657.167	4.358	446.739	446.747
	8657.167	10.179	446.665	446.674
	8657.167	16.000	446.547	446.556

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
46.0	8662.666	- 36.057	446.001	446.001
	8662.666	- 30.273	446.121	446.121
	8662.666	- 24.489	446.241	446.241
	8662.666	- 18.705	446.362	446.362
	8662.666	- 12.921	446.482	446.482
	8662.666	- 7.137	446.582	446.582
	8662.666	- 1.352	446.624	446.624
	8662.666	4.432	446.609	446.609
	8662.666	10.216	446.535	446.535
	8662.666	16.000	446.418	446.418

NOTE: For Notes See Sh. No. 41

DESIGNED BY
DRAWN BY I.M.
CHECKED BY A.J.C.
APPROVED BY K.A.

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

TABLES OF ELEVATIONS

SPANS A 36 AND A 37
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

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

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

SHEET
44 of 163

L EM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
47.0	8665.334	- 35.896	445.941	445.941
	8665.334	- 28.482	446.096	446.096
	8665.334	- 21.069	446.250	446.250
	8665.334	- 13.655	446.404	446.404
	8665.334	- 6.241	446.529	446.529
	8665.334	1.173	446.562	446.562
	8665.334	8.586	446.499	446.499
	8665.334	15.000	446.355	446.355

L EM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
47.5	8673.000	- 35.434	445.771	445.787
	8673.000	- 28.086	445.924	445.939
	8673.000	- 20.738	446.077	446.092
	8673.000	- 13.391	446.229	446.245
	8673.000	- 6.043	446.351	446.367
	8673.000	1.305	446.382	446.397
	8673.000	8.652	446.318	446.334
	8673.000	16.000	446.175	446.191

L EM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
48.0	8680.667	- 34.971	445.600	445.629
	8680.667	- 27.690	445.752	445.781
	8680.667	- 20.408	445.903	445.932
	8680.667	- 13.126	446.055	446.084
	8680.667	- 5.845	446.173	446.202
	8680.667	1.437	446.201	446.230
	8680.667	8.718	446.137	446.166
	8680.667	16.000	445.995	446.024

L EM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
48.5	8690.083	- 34.403	445.391	445.432
	8690.083	- 27.203	445.541	445.581
	8690.083	- 20.002	445.691	445.731
	8690.083	- 12.802	445.840	445.881
	8690.083	- 5.601	445.955	445.995
	8690.083	1.599	445.980	446.020
	8690.083	8.800	445.915	445.955
	8690.083	16.000	445.774	445.814

L EM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
49.0	8699.500	- 33.835	445.182	445.227
	8699.500	- 26.716	445.330	445.376
	8699.500	- 19.596	445.478	445.521
	8699.500	- 12.477	445.626	445.672
	8699.500	- 5.358	445.736	445.782
	8699.500	1.761	445.758	445.804
	8699.500	8.881	445.692	445.738
	8699.500	16.000	445.553	445.599

FL EM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
49.5	8708.917	- 33.267	444.972	445.017
	8708.917	- 26.229	445.119	445.163
	8708.917	- 19.191	445.265	445.310
	8708.917	- 12.152	445.411	445.456
	8708.917	- 5.114	445.517	445.561
	8708.917	1.924	445.536	445.581
	8708.917	8.962	445.470	445.515
	8708.917	16.000	445.331	445.376

FL EM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
50.0	8718.333	- 32.699	444.763	444.800
	8718.333	- 25.742	444.908	444.945
	8718.333	- 18.785	445.052	445.090
	8718.333	- 11.828	445.197	445.235
	8718.333	- 4.871	445.298	445.335
	8718.333	2.086	445.314	445.352
	8718.333	9.043	445.247	445.285
	8718.333	16.000	445.110	445.148

FL EM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
50.5	8727.750	- 32.131	444.553	444.579
	8727.750	- 25.255	444.697	444.722
	8727.750	- 18.379	444.840	444.866
	8727.750	- 11.503	444.982	445.008
	8727.750	- 4.627	445.078	445.104
	8727.750	2.248	445.093	445.119
	8727.750	9.124	445.025	445.051
	8727.750	16.000	444.889	444.915

FL EM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
51.0	8737.167	- 31.562	444.344	444.358
	8737.167	- 24.768	444.485	444.499
	8737.167	- 17.973	444.627	444.640
	8737.167	- 11.179	444.768	444.781
	8737.167	- 4.384	444.859	444.873
	8737.167	2.411	444.871	444.884
	8737.167	9.205	444.802	444.816
	8737.167	16.000	444.668	444.681

FL EM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
51.5	8746.583	- 30.994	444.135	444.139
	8746.583	- 24.281	444.274	444.279
	8746.583	- 17.567	444.414	444.418
	8746.583	- 10.854	444.553	444.557
	8746.583	- 4.140	444.640	444.644
	8746.583	2.573	444.649	444.653
	8746.583	9.287	444.580	444.584
	8746.583	16.000	444.447	444.451

FL EM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
52.0	8756.000	- 30.426	443.925	443.925
	8756.000	- 23.794	444.063	444.063
	8756.000	- 17.162	444.201	444.201
	8756.000	- 10.529	444.337	444.337
	8756.000	- 3.897	444.420	444.420
	8756.000	2.735	444.427	444.427
	8756.000	9.368	444.357	444.357
	8756.000	16.000	444.225	444.225

FL EM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
52.5	8765.417	- 29.858	443.716	443.717
	8765.417	- 23.307	443.852	443.853
	8765.417	- 16.756	443.989	443.989
	8765.417	- 10.205	444.122	444.123
	8765.417	- 3.653	444.201	444.201
	8765.417	2.898	444.205	444.206
	8765.417	9.449	444.135	444.136
	8765.417	16.000	444.004	444.005

FL EM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
53.0	8774.833	- 29.290	443.507	443.514
	8774.833	- 22.820	443.641	443.648
	8774.833	- 16.350	443.776	443.783
	8774.833	- 9.880	443.906	443.914
	8774.833	- 3.410	443.981	443.988
	8774.833	3.060	443.983	443.990
	8774.833	9.530	443.912	443.919
	8774.833	16.000	443.783	443.790

FL EM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
53.5	8784.250	- 28.722	443.297	443.315
	8784.250	- 22.333	443.430	443.448
	8784.250	- 15.944	443.563	443.580
	8784.250	- 9.555	443.691	443.708
	8784.250	- 3.167	443.761	443.779
	8784.250	3.222	443.761	443.779
	8784.250	9.611	443.690	443.707
	8784.250	16.000	443.562	443.579

FL EM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
54.0	8793.667	- 28.154	443.088	443.116
	8793.667	- 21.846	443.219	443.248
	8793.667	- 15.538	443.350	443.379
	8793.667	- 9.231	443.475	443.503
	8793.667	- 2.923	443.541	443.570
	8793.667	3.385	443.539	443.567
	8793.667	9.692	443.467	443.496
	8793.667	16.000	443.341	443.369

FL EM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
54.5	8803.083	- 27.586	442.878	442.915
	8803.083	- 21.359	443.008	443.045
	8803.083	- 15.133	443.137	443.174
	8803.083	- 8.906	443.259	443.296
	8803.083	- 2.680	443.321	443.358
	8803.083	3.547	443.317	443.353
	8803.083	9.773	443.245	443.282
	8803.083	16.000	443.119	443.156

L EM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
55.0	8812.500	- 27.018	442.669	442.709
	8812.500	- 20.872	442.797	442.837
	8812.500	- 14.727	442.925	442.965
	8812.500	- 8.581	443.042	443.083
	8812.500	- 2.436	443.101	443.141
	8812.500	3.709	443.094	443.135
	8812.500	9.855	443.022	443.062
	8812.500	16.000	442.898	442.939

FL EM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
55.5	8821.917	- 26.449	442.460	442.498
	8821.917	- 20.385	442.586	442.624
	8821.917	- 14.321	442.712	442.750
	8821.917	- 8.257	442.826	442.864
	8821.917	- 2.193	442.881	442.919
	8821.917	3.872	442.872	442.910
	8821.917	9.936	442.800	442.838
	8821.917	16.000	442.677	442.715

FL EM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
56.0	8831.333	- 25.881	442.250	442.281
	8831.333	- 19.898	442.375	442.406
	8831.333	- 13.915	442.499	442.530
	8831.333	- 7.932	442.609	442.640
	8831.333	- 1.949	442.661	442.692
	8831.333	4.034	442.650	442.681
	8831.333	10.017	442.577	442.608
	8831.333	16.000	442.456	442.487

FL EM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
56.5	8840.750	- 25.313	442.041	442.061
	8840.750	- 19.411	442.164	442.184
	8840.750	- 13.509	442.286	442.307
	8840.750	- 7.608	442.393	442.413
	8840.750	- 1.706	442.440	442.461
	8840.750	4.196	442.427	442.448
	8840.750	10.098	442.354	442.375
	8840.750	16.000	442.235	442.255

FL EM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
57.0	8850.167	- 24.745	441.832	441.841
	8850.167	- 18.924	441.953	441.962
	8850.167	- 13.104	442.074	442.083
	8850.167	- 7.283	442.176	442.185
	8850.167	- 1.462	442.220	442.229
	8850.167	4.359	442.205	442.215
	8850.167	10.179	442.132	442.141
	8850.167	16.000	442.013	442.023

FL EM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
57.5	8859.583	- 24.177	441.622	441.624
	8859.583	- 18.437	441.742	441.744
	8859.583	- 12.698	441.861	441.863
	8859.583	- 6.958	441.958	441.960
	8859.583	- 1.219	441.999	442.001
	8859.583	4.521	441.983	441.985
	8859.583	10.260	441.909	441.911
	8859.583	16.000	441.792	441.794

L EM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
58.0	8869.000	- 23.609	441.413	441.413
	8869.000	- 17.950	441.531	441.531
	8869.000	- 12.292	441.648	441.648
	8869.000	- 6.634	441.741	441.741
	8869.000	- .975	441.778	441.778
	8869.000	4.683	441.760	441.760
	8869.000	10.342	441.686	441.686
	8869.000	16.000	441.571	441.571

FL EM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
58.5	8878.417	- 23.041	441.203	441.206
	8878.417	- 17.464	441.319	441.322
	8878.417	- 11.886	441.435	441.438
	8878.417	- 6.309	441.523	441.526
	8878.417	- .732	441.557	441.560
	8878.417	4.845	441.538	441.540
	8878.417	10.423	441.464	441.467
	8878.417	16.000	441.350	441.353

FL EM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
59.0	8887.833	- 22.473	440.994	441.005
	8887.833	- 16.977	441.108	441.120
	8887.833	- 11.480	441.222	441.234
	8887.833	- 5.984	441.306	441.317
	8887.833	- .488	441.336	441.348
	8887.833	5.008	441.315	441.326
	8887.833	10.504	441.241	441.252
	8887.833	16.000	441.129	441.140

FL EM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
59.5	8897.250	- 21.905	440.785	440.808
	8897.250	- 16.490	440.897	440.920
	8897.250	- 11.075	441.009	441.032
	8897.250	- 5.660	441.088	441.111
	8897.250	- .245	441.115	441.139
	8897.250	5.170	441.092	441.115
	8897.250	10.585	441.018	441.041
	8897.250	16.000	440.908	440.931

FL EM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
60.0	8906.667	- 21.336	440.575	440.610
	8906.667	- 16.003	440.686	440.721
	8906.667	- 10.669	440.796	440.830
	8906.667	- 5.335	440.870	440.904
	8906.667	- .001	440.894	440.929
	8906.667	5.332	440.870	440.904
	8906.667	10.666	440.796	440.831
	8906.667	16.000	440.686	440.721

FL EM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
60.5	8916.083	- 20.768	440.366	440.408
	8916.083	- 15.516	440.475	440.518
	8916.083	- 10.263	440.582	440.624
	8916.083	- 5.010	440.651	440.694
	8916.083	.242	440.673	440.715
	8916.083	5.495	440.647	440.689
	8916.083	10.747	440.573	440.615
	8916.083	16.000	440.465	440.508

FL EM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
61.0	8925.500	- 20.200	440.157	440.201
	8925.500	- 15.029	440.264	440.308
	8925.500	- 9.857	440.368	440.412
	8925.500	- 4.686	440.433	440.477
	8925.500	.486	440.452	440.496
	8925.500	5.657	440.424	440.468
	8925.500	10.829	440.350	440.394
	8925.500	16.000	440.244	440.288

FL EM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
61.5	8934.917	- 19.632	439.947	439.967
	8934.917	- 14.542	440.053	440.092
	8934.917	- 9.452	440.153	440.193
	8934.917	- 4.361	440.214	440.254
	8934.917	.729	440.230	440.270
	8934.917	5.819	440.201	440.241
	8934.917	10.910	440.128	440.167
	8934.917	16.000	440.023	440.062

FL EM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
62.0	8944.333	- 19.064	439.738	439.766
	8944.333	- 14.055	439.842	439.870
	8944.333	- 9.046	439.939	439.967
	8944.333	- 4.037	439.995	440.024
	8944.333	.973	440.009	440.037
	8944.333	5.982	439.979	440.007
	8944.333	10.991	439.905	439.933
	8944.333	16.000	439.802	439.830

FL EM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
62.5	8952.000	- 18.601	439.567	439.583
	8952.000	- 13.658	439.670	439.685
	8952.000	- 8.715	439.764	439.779
	8952.000	- 3.772	439.817	439.832
	8952.000	1.171	439.828	439.843
	8952.000	6.114	439.797	439.812
	8952.000	11.057	439.723	439.739
	8952.000	16.000	439.621	439.637

FL EM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
63.0	8959.666	- 18.139	439.397	439.397
	8959.666	- 13.262	439.498	439.498
	8959.666	- 8.385	439.588	439.588
	8959.666	- 3.508	439.639	439.639
	8959.666	1.369	439.648	439.648
	8959.666	6.246	439.616	439.616
	8959.666	11.123	439.542	439.542
	8959.666	16.000	439.441	439.441

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	112
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

NOTE: For Notes See Sh. No. 41

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

TABLES OF ELEVATIONS
SPANS A38 THRU A40
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

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

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

SHEET 45 OF 163

DESIGNED BY
DRAWN BY I.M.
CHECKED BY A.C.
APPROVED BY K.A

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVB-3	ST. CLAIR	202	113
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
64.0	8962.334	- 17.978	439.338	439.338
	8962.334	- 11.183	439.478	439.478
	8962.334	- 4.387	439.570	439.570
	8962.334	2.409	439.562	439.562
	8962.334	9.204	439.513	439.513
	8962.334	16.000	439.379	439.379

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
64.5	8970.167	- 17.538	439.163	439.180
	8970.167	- 10.897	439.300	439.317
	8970.167	- 4.173	439.388	439.405
	8970.167	2.552	439.397	439.414
	8970.167	9.276	439.328	439.345
	8970.167	16.000	439.195	439.212

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
65.0	8978.000	- 17.152	438.987	439.019
	8978.000	- 10.611	439.121	439.153
	8978.000	- 3.958	439.205	439.237
	8978.000	2.694	439.212	439.244
	8978.000	9.347	439.143	439.175
	8978.000	16.000	439.011	439.043

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
65.5	8988.000	- 16.741	438.760	438.806
	8988.000	- 10.247	438.893	438.938
	8988.000	- 3.685	438.972	439.017
	8988.000	2.877	438.977	439.022
	8988.000	9.438	438.907	438.952
	8988.000	16.000	438.776	438.8[illegible]

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
66.0	8998.000	- 16.421	438.532	438.584
	8998.000	- 9.990	438.662	438.714
	8998.000	- 3.493	438.738	438.790
	8998.000	3.005	438.741	438.792
	8998.000	9.502	438.671	438.722
	8998.000	16.000	438.541	438.592

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
66.5	9008.000	- 16.190	438.302	438.352
	9008.000	- 9.881	438.429	438.479
	9008.000	- 3.411	438.504	438.554
	9008.000	3.059	438.506	438.556
	9008.000	9.530	438.435	438.485
	9008.000	16.000	438.306	438.356

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
67.0	9018.000	- 16.050	438.070	438.112
	9018.000	- 9.772	438.196	438.238
	9018.000	- 3.329	438.270	438.311
	9018.000	3.114	438.271	438.313
	9018.000	9.557	438.200	438.242
	9018.000	16.000	438.071	438.113

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
67.5	9028.000	- 16.000	437.836	437.865
	9028.000	- 9.663	437.963	437.992
	9028.000	- 3.247	438.035	438.064
	9028.000	3.169	438.036	438.064
	9028.000	9.584	437.965	437.993
	9028.000	16.000	437.836	437.865

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
68.0	9038.000	- 16.000	437.601	437.616
	9038.000	- 9.600	437.729	437.744
	9038.000	- 3.200	437.800	437.815
	9038.000	3.200	437.800	437.815
	9038.000	9.600	437.729	437.744
	9038.000	16.000	437.601	437.616

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
68.5	9048.000	- 16.000	437.366	437.371
	9048.000	- 9.600	437.495	437.499
	9048.000	- 3.200	437.566	437.570
	9048.000	3.200	437.566	437.570
	9048.000	9.600	437.495	437.499
	9048.000	16.000	437.366	437.371

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
69.0	9058.000	- 16.000	437.132	437.132
	9058.000	- 9.600	437.260	437.260
	9058.000	- 3.200	437.331	437.331
	9058.000	3.200	437.331	437.331
	9058.000	9.600	437.260	437.260
	9058.000	16.000	437.132	437.132

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
69.5	9068.000	- 16.000	436.897	436.900
	9068.000	- 9.600	437.025	437.028
	9068.000	- 3.200	437.096	437.099
	9068.000	3.200	437.096	437.099
	9068.000	9.600	437.025	437.028
	9068.000	16.000	436.897	436.900

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
70	9078.000	- 16.000	436.662	436.674
	9078.000	- 9.600	436.790	436.803
	9078.000	- 3.200	436.861	436.874
	9078.000	3.200	436.861	436.874
	9078.000	9.600	436.790	436.803
	9078.000	16.000	436.662	436.674

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
70.5	9088.000	- 16.000	436.427	436.453
	9088.000	- 9.600	436.555	436.581
	9088.000	- 3.200	436.626	436.652
	9088.000	3.200	436.626	436.652
	9088.000	9.600	436.555	436.581
	9088.000	16.000	436[illegible]	436.453

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
71.0	9098.000	- 16.000	436.192	436.231
	9098.000	- 9.600	436.320	436.359
	9098.000	- 3.200	436.391	436.430
	9098.000	3.200	436.391	436.430
	9098.000	9.600	436.320	436.359
	9098.000	16.000	436.192	436.231

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
71.5	9108.000	- 16.000	435.957	436.004
	9108.000	- 9.600	436.085	436.132
	9108.000	- 3.200	436.156	436.203
	9108.000	3.200	436.156	436.203
	9108.000	9.600	436.085	436.132
	9108.000	16.000	435.957	436.004

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
72.0	9118.000	- 16.000	435.722	435.771
	9118.000	- 9.600	435.850	435.899
	9118.000	- 3.200	435.921	435.970
	9118.000	3.200	435.921	435.970
	9118.000	9.600	435.850	435.899
	9118.000	16.000	435.722	435.771

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
72.5	9128.000	- 16.000	435.487	435.530
	9128.000	- 9.600	435.615	435.658
	9128.000	- 3.200	435.686	435.729
	9128.000	3.200	435.686	435.729
	9128.000	9.600	435.615	435.658
	9128.000	16.000	435.487	435.530

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
73.0	9138.000	- 16.000	435.252	435.283
	9138.000	- 9.600	435.380	435.411
	9138.000	- 3.200	435.451	435.482
	9138.000	3.200	435.451	435.482
	9138.000	9.600	435.380	435.411
	9138.000	16.000	435.252	435.283

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
73.5	9145.833	- 16.000	435.068	435.085
	9145.833	- 9.600	435.196	435.213
	9145.833	- 3.200	435.267	435.284
	9145.833	3.200	435.267	435.284
	9145.833	9.600	435.196	435.213
	9145.833	16.000	435.068	435.085

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
74.0	9153.666	- 16.000	434.884	434.884
	9153.666	- 9.600	435.012	435.012
	9153.666	- 3.200	435.083	435.083
	9153.666	3.200	435.083	435.083
	9153.666	9.600	435.012	435.012
	9153.666	16.000	434.884	434.884

Note: For Notes see Sh. No. 41

DESIGNED BY
DRAWN BY A.C.
CHECKED BY A.J.C.
APPROVED BY K.A.

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

TABLES OF ELEVATIONS
SPANS A 41 AND A 42
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

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

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

SHEET 46 OF 163

SPAN A43

STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.	FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.	FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
9156.334	– 16.000	434.822	434.822	75+50	9206.333	– 16.000	433.647	433.655	76	9211.615	– 16.000	433.521	433.521
9156.334	– 8.000	434.974	434.974		9206.333	– 8.000	433.799	433.809		9221.733	– 8.000	433.430	433.430
9156.334	– .000	435.030	435.030		9206.333	– .000	433.855	433.965		9231.850	– .000	433.239	433.239
9156.334	8.000	434.974	434.974		9206.333	8.000	433.799	433.969		9241.968	8.000	432.934	432.934
9156.334	16.000	434.822	434.822		9206.333	16.000	433.647	433.823		9252.086	16.000	432.528	432.528

STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.	FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
9166.333	– 16.000	434.587	434.596	75+60				
9166.333	– 8.000	434.739	434.792		9216.333	– 8.000	433.561	433.581
9166.333	– .000	434.795	434.845		9216.333	– .000	433.616	433.706
9166.333	8.000	434.739	434.783		9216.333	8.000	433.561	433.721
9166.333	16.000	434.587	434.645		9216.333	16.000	433.408	433.571

STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.	FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
9176.333	– 16.000	434.352	434.372	75+70				
9176.333	– 8.000	434.504	434.574					
9176.333	– .000	434.560	434.650		9226.333	– .000	433.374	433.404
9176.333	8.000	434.504	434.604		9226.333	8.000	433.219	433.429
9176.333	16.000	434.352	434.461		9226.333	16.000	433.166	433.266

STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.	FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
9186.333	– 16.000	434.117	434.137	75+80				
9186.333	– 8.000	434.270	434.350					
9186.333	– .000	434.325	434.435					
9186.333	8.000	434.270	434.430		9236.333	8.000	433.074	433.124
9186.333	16.000	434.117	434.265		9236.333	16.000	432.921	433.002

STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.	FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
9196.333	– 16.000	433.882	433.908	75+90				
9196.333	– 8.000	434.035	434.115					
9196.333	– .000	434.090	434.220					
9196.333	8.000	434.035	434.205					
9196.333	16.000	433.882	434.054		9245.333	16.000	432.673	432.704

SPAN A44

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.	FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
77	9215.915	– 16.000	433.418	433.418	77+50	9265.914	– 16.000	432.177	432.406
	9226.033	– 8.000	433.326	433.326		9276.032	– 8.000	432.068	432.234
	9236.151	– .000	433.134	433.134		9286.150	– .000	431.860	432.025
	9246.268	8.000	432.827	432.827		9296.267	8.000	431.536	431.702
	9256.386	16.000	432.420	432.420		9306.385	16.000	431.113	431.342

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.	FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
77+10	9225.914	– 16.000	433.176	433.265	77+60	9275.914	– 16.000	431.919	432.109
	9236.032	– 8.000	433.081	433.144		9286.032	– 8.000	431.807	431.944
	9246.150	– .000	432.885	432.948		9296.150	– .000	431.595	431.732
	9256.267	8.000	432.575	432.638		9306.267	8.000	431.269	431.405
	9266.385	16.000	432.165	432.253		9316.385	16.000	430.842	431.031

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.	FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
77+20	9235.914	– 16.000	432.931	433.094	77+70	9285.914	– 16.000	431.658	431.784
	9246.032	– 8.000	432.833	432.950		9296.032	– 8.000	431.543	431.633
	9256.150	– .000	432.634	432.751		9306.150	– .000	431.327	431.418
	9266.267	8.000	432.320	432.438		9316.267	8.000	430.997	431.088
	9276.385	16.000	431.907	432.070		9326.385	16.000	430.567	430.694

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.	FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
77+30	9245.914	– 16.000	432.683	432.897	77+80	9295.914	– 16.000	431.393	431.424
	9256.032	– 8.000	432.581	432.736		9306.032	– 8.000	431.275	431.305
	9266.150	– .000	432.379	432.533		9316.150	– .000	431.056	431.087
	9276.267	8.000	432.062	432.217		9326.267	8.000	430.723	430.754
	9286.385	16.000	431.645	431.859		9336.385	16.000	430.290	430.320

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.	FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
77+40	9255.914	– 16.000	432.432	432.668	78	9300.614	– 16.000	431.268	431.268
	9266.032	– 8.000	432.326	432.497		9310.732	– 8.000	431.148	431.148
	9276.150	– .000	432.121	432.292		9320.849	– .000	430.928	430.928
	9286.267	8.000	431.801	431.972		9330.967	8.000	430.593	430.593
	9296.385	16.000	431.381	431.617		9341.085	16.000	430.158	430.158

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	114
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

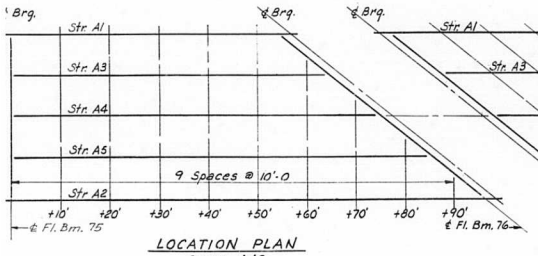
SPAN A45

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.	FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
79	9304.915	– 16.000	431.152	431.152	79+40	9344.914	– 16.000	430.050	430.087
	9315.033	– 8.000	431.031	431.031		9355.032	– 8.000	429.916	429.942
	9325.151	– .000	430.809	430.809		9365.150	– .000	429.681	429.707
	9335.268	8.000	430.473	430.473		9375.267	8.000	429.332	429.358
	9345.386	16.000	430.037	430.037		9385.385	16.000	428.882	428.919

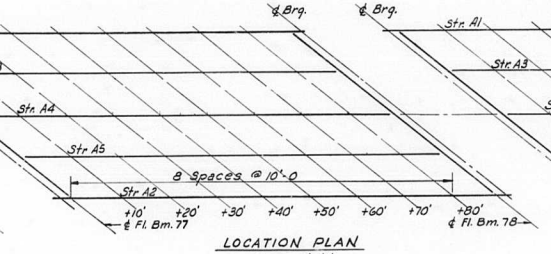
FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.	FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
79+10	9314.914	– 16.000	430.882	430.904	79+50	9354.914	– 16.000	429.767	429.771
	9325.032	– 8.000	430.757	430.780		9365.032	– 8.000	429.629	429.633
	9335.150	– .000	430.532	430.555		9375.150	– .000	429.391	429.395
	9345.267	8.000	430.193	430.216		9385.267	8.000	429.038	429.043
	9355.385	16.000	429.753	429.776		9395.385	16.000	428.585	428.590

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.	℄ BRG. ABUT. A-46	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
79+20	9324.914	– 16.000	430.608	430.645		9357.764	– 16.000	429.685	429.685
	9335.032	– 8.000	430.480	430.517		9367.882	– 8.000	429.547	429.547
	9345.150	– .000	430.252	430.288		9377.999	.000	429.308	429.308
	9355.267	8.000	429.909	429.946		9388.117	8.000	428.955	428.955
	9365.385	16.000	429.465	429.503		9398.235	16.000	428.500	428.500

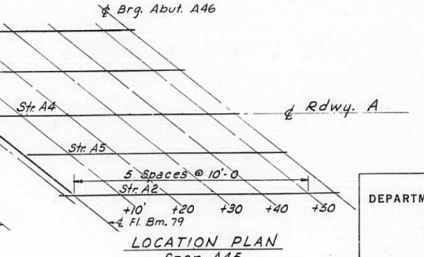
FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
79+30	9334.914	– 16.000	430.331	430.384
	9345.032	– 8.000	430.199	430.238
	9355.150	– .000	429.968	430.006
	9365.267	8.000	429.622	429.660
	9375.385	16.000	429.176	429.229



LOCATION PLAN
Span A43



LOCATION PLAN
Span A44



LOCATION PLAN
Span A45

NOTE:
Stringers are identified in the Tables by their offset.

D BY
BY A.C.
D BY A.J.C.
ED BY K.A.

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

TABLES OF ELEVATIONS
SPANS A43 THRU A45

POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

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

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

SHEET
47 of 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVB-3	ST. CLAIR	202	115
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
1.0	8164.304	- 16.000	458.059	458.059
	8164.319	- 8.000	457.419	457.419
	8164.334	- .000	456.779	456.779
	8164.350	8.000	456.139	456.139
	8164.366	16.000	455.499	455.499

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
1.5	8170.000	- 16.000	458.062	458.071
	8170.000	- 7.919	457.416	457.424
	8170.000	.080	456.776	456.784
	8170.000	8.078	456.136	456.144
	8170.000	16.000	455.502	455.511

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
2.0	8175.667	- 16.000	458.063	458.078
	8175.667	- 7.885	457.414	457.429
	8175.667	.114	456.774	456.789
	8175.667	8.112	456.134	456.149
	8175.667	16.000	455.503	455.518

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
2.5	8184.583	- 16.000	458.057	458.081
	8184.583	- 7.925	457.411	457.435
	8184.583	.074	456.771	456.795
	8184.583	8.073	456.131	456.156
	8184.583	16.000	455.497	455.521

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
3.0	8193.500	- 16.000	458.043	458.072
	8193.500	- 7.962	457.400	457.429
	8193.500	.037	456.760	456.789
	8193.500	8.037	456.120	456.149
	8193.500	16.000	455.483	455.512

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
3.5	8202.417	- 16.000	458.021	458.050
	8202.417	- 7.953	457.377	457.406
	8202.417	.046	456.737	456.766
	8202.417	8.046	456.098	456.126
	8202.417	16.000	455.461	455.490

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
4.0	8211.333	- 16.000	457.991	458.015
	8211.333	- 7.962	457.348	457.372
	8211.333	.037	456.708	456.732
	8211.333	8.037	456.068	456.092
	8211.333	16.000	455.431	455.455

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
4.5	8220.250	- 16.000	457.954	457.970
	8220.250	- 7.953	457.310	457.326
	8220.250	.046	456.670	456.686
	8220.250	8.046	456.030	456.046
	8220.250	16.000	455.394	455.410

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
5.0	8229.167	- 16.000	457.908	457.916
	8229.167	- 7.962	457.265	457.273
	8229.167	.037	456.625	456.633
	8229.167	8.037	455.985	455.993
	8229.167	16.000	455.348	455.356

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
5.5	8238.083	- 16.000	457.854	457.856
	8238.083	- 7.953	457.211	457.213
	8238.083	.046	456.571	456.573
	8238.083	8.046	455.931	455.933
	8238.083	16.000	455.294	455.296

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
6.0	8247.000	- 16.000	457.793	457.793
	8247.000	- 7.942	457.148	457.148
	8247.000	.057	456.508	456.508
	8247.000	8.057	455.868	455.868
	8247.000	16.000	455.233	455.233

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
6.5	8255.917	- 16.000	457.723	457.727
	8255.917	- 7.885	457.074	457.077
	8255.917	.114	456.434	456.437
	8255.917	8.113	455.794	455.798
	8255.917	16.000	455.163	455.167

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
7.0	8264.833	- 16.000	457.646	457.657
	8264.833	- 7.942	457.001	457.012
	8264.833	.057	456.361	456.372
	8264.833	8.057	455.721	455.732
	8264.833	16.000	455.086	455.097

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
7.5	8273.750	- 16.000	457.561	457.581
	8273.750	- 7.953	456.917	456.937
	8273.750	.046	456.277	456.297
	8273.750	8.046	455.637	455.657
	8273.750	16.000	455.001	455.021

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
8.0	8282.667	- 16.000	457.467	457.497
	8282.667	- 7.962	456.824	456.853
	8282.667	.037	456.184	456.214
	8282.667	8.037	455.544	455.574
	8282.667	16.000	454.907	454.937

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
8.5	8291.583	- 16.000	457.366	457.402
	8291.583	- 7.915	456.719	456.755
	8291.583	.084	456.079	456.115
	8291.583	8.083	455.439	455.475
	8291.583	16.000	454.806	454.842

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
9.0	8300.500	- 16.000	457.257	457.295
	8300.500	- 7.857	456.605	456.643
	8300.500	.141	455.965	456.003
	8300.500	8.140	455.325	455.364
	8300.500	16.000	454.697	454.735

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
9.5	8309.417	- 16.000	457.139	457.175
	8309.417	- 7.915	456.492	456.528
	8309.417	.084	455.853	455.889
	8309.417	8.083	455.213	455.249
	8309.417	16.000	454.579	454.615

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
10.0	8318.333	- 16.000	457.014	457.044
	8318.333	- 7.962	456.371	456.401
	8318.333	.037	455.731	455.761
	8318.333	8.037	455.091	455.121
	8318.333	16.000	454.454	454.484

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
10.5	8327.250	- 16.000	456.833	456.854
	8327.250	- 7.953	456.213	456.234
	8327.250	.046	455.597	455.618
	8327.250	8.046	454.976	454.997
	8327.250	16.000	454.358	454.379

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
11.0	8336.167	- 16.000	456.625	456.636
	8336.167	- 7.962	456.040	456.051
	8336.167	.037	455.457	455.468
	8336.167	8.037	454.862	454.873
	8336.167	16.000	454.269	454.280

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
11.5	8345.083	- 16.000	456.409	456.412
	8345.083	- 7.953	455.857	455.860
	8345.083	.046	455.308	455.311
	8345.083	8.046	454.738	454.741
	8345.083	16.000	454.171	454.175

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
12.0	8354.000	- 16.000	456.185	456.185
	8354.000	- 7.942	455.666	455.666
	8354.000	.057	455.150	455.150
	8354.000	8.057	454.606	454.606
	8354.000	16.000	454.066	454.066

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
12.5	8362.917	- 16.000	455.953	455.954
	8362.917	- 7.885	455.464	455.465
	8362.917	.114	454.982	454.983
	8362.917	8.113	454.464	454.465
	8362.917	16.000	453.953	453.954

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
13.0	8371.833	- 16.000	455.713	455.719
	8371.833	- 7.942	455.261	455.268
	8371.833	.057	454.813	454.820
	8371.833	8.057	454.320	454.327
	8371.833	16.000	453.832	453.838

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
13.5	8380.750	- 16.000	455.465	455.479
	8380.750	- 7.968	455.048	455.063
	8380.750	.031	454.634	454.648
	8380.750	8.031	454.167	454.182
	8380.750	16.000	453.702	453.717

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
14.0	8389.667	- 16.000	455.209	455.230
	8389.667	- 7.987	454.827	454.849
	8389.667	.013	454.446	454.468
	8389.667	8.013	454.005	454.027
	8389.667	16.000	453.565	453.587

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
14.5	8398.583	- 16.000	454.945	454.971
	8398.583	- 8.000	454.597	454.624
	8398.583	- .000	454.250	454.276
	8398.583	8.000	453.835	453.861
	8398.583	16.000	453.420	453.447

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
15.0	8407.500	- 16.000	454.673	454.700
	8407.500	- 8.000	454.359	454.386
	8407.500	- .000	454.045	454.072
	8407.500	8.000	453.656	453.683
	8407.500	16.000	453.267	453.294

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
15.5	8416.417	- 16.000	454.393	454.416
	8416.417	- 8.000	454.113	454.136
	8416.417	- .000	453.833	453.855
	8416.417	8.000	453.470	453.492
	8416.417	16.000	453.106	453.129

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
16.0	8425.333	- 16.000	454.105	454.120
	8425.333	- 8.000	453.859	453.873
	8425.333	- .000	453.612	453.626
	8425.333	8.000	453.275	453.289
	8425.333	16.000	452.938	452.952

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
16.5	8431.000	- 16.000	453.918	453.926
	8431.000	- 8.000	453.693	453.701
	8431.000	- .000	453.468	453.475
	8431.000	8.000	453.147	453.155
	8431.000	16.000	452.826	452.834

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
17.0	8436.666	- 16.000	453.728	453.728
	8436.666	- 8.000	453.524	453.524
	8436.666	- .000	453.320	453.320
	8436.666	8.000	453.016	453.016
	8436.666	16.000	452.711	452.711

Note: For Notes see Sh. No. 41

SIGNED BY
DRAWN BY A.C.
CHECKED BY A.J.C.
APPROVED BY K.A.

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

TABLES OF ELEVATIONS

SPANS D33 THRU D35

POPLAR STREET BRIDGE APPROACHES

ROADWAY "D"

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

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

SHEET 48 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVB-3	ST. CLAIR	262	116
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
18.0	8439.334	- 43.639	454.029	454.029
	8439.334	- 36.184	453.896	453.896
	8439.334	- 28.729	453.764	453.764
	8439.334	- 21.274	453.709	453.709
	8439.334	- 13.819	453.585	453.585
	8439.334	- 6.365	453.404	453.404
	8439.334	1.090	453.209	453.209
	8439.334	8.545	452.933	452.933
	8439.334	16.000	452.656	452.656

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
18.5	8446.167	- 43.402	453.688	453.705
	8446.167	- 35.977	453.577	453.593
	8446.167	- 28.551	453.467	453.483
	8446.167	- 21.126	453.452	453.469
	8446.167	- 13.701	453.354	453.370
	8446.167	- 6.276	453.198	453.214
	8446.167	1.150	453.026	453.042
	8446.167	8.575	452.769	452.785
	8446.167	16.000	452.512	452.529

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
19.0	8453.000	- 43.165	453.353	453.384
	8453.000	- 35.769	453.263	453.294
	8453.000	- 28.374	453.174	453.206
	8453.000	- 20.978	453.191	453.222
	8453.000	- 13.582	453.119	453.150
	8453.000	- 6.187	452.987	453.018
	8453.000	1.209	452.838	452.869
	8453.000	8.604	452.600	452.632
	8453.000	16.000	452.363	452.394

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
19.5	8461.350	- 42.875	452.949	452.995
	8461.350	- 35.516	452.886	452.932
	8461.350	- 28.156	452.824	452.869
	8461.350	- 20.797	452.867	452.913
	8461.350	- 13.438	452.827	452.873
	8461.350	- 6.078	452.724	452.770
	8461.350	1.281	452.603	452.649
	8461.350	8.641	452.389	452.434
	8461.350	16.000	452.174	452.220

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
20.0	8469.700	- 42.586	452.554	452.609
	8469.700	- 35.262	452.516	452.571
	8469.700	- 27.939	452.480	452.535
	8469.700	- 20.616	452.538	452.593
	8469.700	- 13.293	452.529	452.584
	8469.700	- 5.970	452.456	452.511
	8469.700	1.354	452.361	452.416
	8469.700	8.677	452.170	452.225
	8469.700	16.000	451.979	452.034

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
20.5	8479.750	- 42.237	452.088	452.144
	8479.750	- 34.957	452.082	452.138
	8479.750	- 27.678	452.077	452.133
	8479.750	- 20.398	452.137	452.195
	8479.750	- 13.119	452.164	452.222
	8479.750	- 5.839	452.126	452.184
	8479.750	1.441	452.063	452.121
	8479.750	8.720	451.900	451.957
	8479.750	16.000	451.736	451.794

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
21.0	8489.800	- 41.888	451.618	451.671
	8489.800	- 34.652	451.653	451.705
	8489.800	- 27.416	451.689	451.741
	8489.800	- 20.180	451.742	451.794
	8489.800	- 12.944	451.799	451.851
	8489.800	- 5.708	451.801	451.853
	8489.800	1.528	451.767	451.819
	8489.800	8.764	451.633	451.685
	8489.800	16.000	451.488	451.540

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
21.5	8499.850	- 41.540	451.141	451.181
	8499.850	- 34.347	451.205	451.245
	8499.850	- 27.155	451.269	451.310
	8499.850	- 19.962	451.347	451.387
	8499.850	- 12.770	451.434	451.474
	8499.850	- 5.577	451.485	451.525
	8499.850	1.615	451.475	451.516
	8499.850	8.808	451.372	451.412
	8499.850	16.000	451.229	451.269

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
22.0	8509.900	- 41.191	450.664	450.688
	8509.900	- 34.042	450.756	450.780
	8509.900	- 26.893	450.849	450.874
	8509.900	- 19.745	450.951	450.975
	8509.900	- 12.596	451.072	451.097
	8509.900	- 5.447	451.169	451.194
	8509.900	1.702	451.185	451.209
	8509.900	8.851	451.111	451.135
	8509.900	16.000	450.970	450.995

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
22.5	8519.950	- 40.843	450.246	450.255
	8519.950	- 33.737	450.368	450.378
	8519.950	- 26.632	450.492	450.502
	8519.950	- 19.527	450.620	450.629
	8519.950	- 12.421	450.756	450.766
	8519.950	- 5.316	450.865	450.875
	8519.950	1.789	450.887	450.896
	8519.950	8.895	450.821	450.831
	8519.950	16.000	450.681	450.691

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
23.0	8530.000	- 40.494	449.870	449.870
	8530.000	- 33.432	450.017	450.017
	8530.000	- 26.371	450.164	450.164
	8530.000	- 19.309	450.311	450.311
	8530.000	- 12.247	450.458	450.458
	8530.000	- 5.185	450.565	450.565
	8530.000	1.876	450.585	450.585
	8530.000	8.938	450.519	450.519
	8530.000	16.000	450.380	450.380

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
23.5	8540.050	- 40.145	449.576	449.573
	8540.050	- 33.127	449.722	449.719
	8540.050	- 26.109	449.868	449.865
	8540.050	- 19.091	450.014	450.011
	8540.050	- 12.073	450.160	450.157
	8540.050	- 5.055	450.264	450.261
	8540.050	1.964	450.283	450.280
	8540.050	8.982	450.216	450.213
	8540.050	16.000	450.078	450.075

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
24.0	8550.100	- 39.797	449.282	449.283
	8550.100	- 32.822	449.427	449.428
	8550.100	- 25.848	449.572	449.573
	8550.100	- 18.873	449.717	449.718
	8550.100	- 11.898	449.862	449.863
	8550.100	- 4.924	449.964	449.965
	8550.100	2.051	449.981	449.982
	8530.100	9.025	449.914	449.915
	8550.100	16.000	449.777	449.778

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
24.5	8560.150	- 39.448	448.988	448.997
	8560.150	- 32.517	449.132	449.141
	8560.150	- 25.586	449.276	449.285
	8560.150	- 18.655	449.420	449.430
	8560.150	- 11.724	449.564	449.574
	8560.150	- 4.793	449.663	449.673
	8560.150	2.138	449.679	449.689
	8560.150	9.069	449.612	449.622
	8560.150	16.000	449.475	449.485

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
25.0	8570.200	- 39.100	448.693	448.712
	8570.200	- 32.212	448.837	448.855
	8570.200	- 25.325	448.980	448.998
	8570.200	- 18.437	449.123	449.142
	8570.200	- 11.550	449.266	449.285
	8570.200	- 4.662	449.363	449.381
	8570.200	2.225	449.378	449.396
	8570.200	9.113	449.310	449.328
	8570.200	16.000	449.174	449.192

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
25.5	8580.250	- 38.751	448.399	448.423
	8580.250	- 31.907	448.541	448.565
	8580.250	- 25.063	448.684	448.708
	8580.250	- 18.219	448.826	448.850
	8580.250	- 11.375	448.968	448.992
	8580.250	- 4.532	449.063	449.086
	8580.250	2.312	449.076	449.099
	8580.250	9.156	449.008	449.031
	8580.250	16.000	448.872	448.896

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
26.0	8590.300	- 38.402	448.105	448.128
	8590.300	- 31.602	448.246	448.269
	8590.300	- 24.802	448.389	448.411
	8590.300	- 18.001	448.529	448.552
	8590.300	- 11.201	448.670	448.693
	8590.300	- 4.401	448.762	448.785
	8590.300	2.399	448.774	448.797
	8590.300	9.200	448.705	448.729
	8590.300	16.000	448.571	448.594

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
26.5	8600.350	- 38.054	447.811	447.828
	8600.350	- 31.297	447.951	447.969
	8600.350	- 24.540	448.092	448.109
	8600.350	- 17.784	448.232	448.250
	8600.350	- 11.027	448.372	448.389
	8600.350	- 4.270	448.462	448.479
	8600.350	2.487	448.472	448.490
	8600.350	9.243	448.403	448.421
	8600.350	16.000	448.269	448.287

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
27.0	8610.400	- 37.705	447.516	447.526
	8610.400	- 30.992	447.656	447.665
	8610.400	- 24.279	447.796	447.805
	8610.400	- 17.566	447.935	447.945
	8610.400	- 10.853	448.074	448.083
	8610.400	- 4.139	448.161	448.170
	8610.400	2.574	448.170	448.180
	8610.400	9.287	448.101	448.111
	8610.400	16.000	447.968	447.977

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
27.5	8620.450	- 37.356	447.222	447.225
	8620.450	- 30.687	447.361	447.363
	8620.450	- 24.017	447.500	447.502
	8620.450	- 17.348	447.638	447.641
	8620.450	- 10.678	447.775	447.778
	8620.450	- 4.009	447.860	447.863
	8620.450	2.661	447.868	447.871
	8620.450	9.330	447.799	447.801
	8620.450	16.000	447.666	447.669

NOTE: For Notes see Sh. No. 41

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

TABLES OF ELEVATIONS
SPANS D36 AND D37
POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

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

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

SHEET 49 OF 163

SIGNED BY
DRAWN BY A.C.
CHECKED BY A.J.C.
APPROVED BY K.A.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVB-3	ST. CLAIR	202	117
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
28.0	8630.500	– 37.008	446.928	446.928
	8630.500	– 30.382	447.066	447.066
	8630.500	– 23.756	447.203	447.203
	8630.500	– 17.130	447.341	447.341
	8630.500	– 10.504	447.477	447.477
	8630.500	– 3.878	447.560	447.560
	8630.500	2.748	447.566	447.566
	8630.500	9.374	447.497	447.497
	8630.500	16.000	447.365	447.365

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
28.5	8640.550	– 36.659	446.634	446.637
	8640.550	– 30.077	446.771	446.774
	8640.550	– 23.494	446.907	446.911
	8640.550	– 16.912	447.044	447.048
	8640.550	– 10.330	447.179	447.182
	8640.550	– 3.747	447.259	447.263
	8640.550	2.835	447.264	447.268
	8640.550	9.418	447.194	447.198
	8640.550	16.000	447.063	447.067

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
29.0	8650.600	– 36.311	446.339	446.351
	8650.600	– 29.772	446.475	446.487
	8650.600	– 23.233	446.611	446.623
	8650.600	– 16.694	446.747	446.759
	8650.600	– 10.155	446.880	446.892
	8650.600	– 3.616	446.958	446.970
	8650.600	2.922	446.962	446.974
	8650.600	9.461	446.892	446.904
	8650.600	16.000	446.762	446.774

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
29.5	8660.650	– 35.962	446.045	446.066
	8660.650	– 29.467	446.180	446.201
	8660.650	– 22.972	446.315	446.336
	8660.650	– 16.476	446.450	446.471
	8660.650	– 9.981	446.582	446.603
	8660.650	– 3.486	446.658	446.679
	8660.650	3.009	446.660	446.682
	8660.650	9.505	446.590	446.611
	8660.650	16.000	446.460	446.481

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
30.0	8670.700	– 35.613	445.751	445.779
	8670.700	– 29.102	445.885	445.913
	8670.700	– 22.710	446.019	446.047
	8670.700	– 16.258	446.153	446.181
	8670.700	– 9.807	446.283	446.311
	8670.700	– 3.355	446.357	446.385
	8670.700	3.097	446.358	446.386
	8670.700	9.548	446.288	446.316
	8670.700	16.000	446.159	446.187

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
30.5	8680.750	– 35.265	445.457	445.486
	8680.750	– 28.857	445.590	445.620
	8680.750	– 22.449	445.723	445.753
	8680.750	– 16.041	445.856	445.886
	8680.750	– 9.632	445.985	446.015
	8680.750	– 3.224	446.056	446.086
	8680.750	3.184	446.056	446.086
	8680.750	9.592	445.986	446.015
	8680.750	16.000	445.857	445.887

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
31.0	8690.800	– 34.916	445.162	445.188
	8690.800	– 28.552	445.295	445.320
	8690.800	– 22.187	445.427	445.452
	8690.800	– 15.823	445.559	445.585
	8690.800	– 9.458	445.686	445.711
	8690.800	– 3.094	445.755	445.781
	8690.800	3.271	445.755	445.780
	8690.800	9.635	445.683	445.709
	8690.800	16.000	445.556	445.581

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
31.5	8700.850	– 34.568	444.868	444.884
	8700.850	– 28.247	445.000	445.016
	8700.850	– 21.926	445.131	445.147
	8700.850	– 15.605	445.262	445.279
	8700.850	– 9.284	445.388	445.404
	8700.850	– 2.963	445.455	445.471
	8700.850	3.358	445.453	445.469
	8700.850	9.679	445.381	445.397
	8700.850	16.000	445.254	445.271

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
32.0	8710.900	– 34.219	444.574	444.580
	8710.900	– 27.942	444.704	444.711
	8710.900	– 21.664	444.835	444.842
	8710.900	– 15.387	444.966	444.972
	8710.900	– 9.109	445.089	445.095
	8710.900	– 2.832	445.154	445.160
	8710.900	3.445	445.150	445.157
	8710.900	9.723	445.079	445.085
	8710.900	16.000	444.953	444.959

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
32.5	8720.950	– 33.870	444.280	444.280
	8720.950	– 27.637	444.409	444.409
	8720.950	– 21.403	444.539	444.539
	8720.950	– 15.169	444.669	444.669
	8720.950	– 8.935	444.790	444.790
	8720.950	– 2.701	444.853	444.853
	8720.950	3.532	444.848	444.849
	8720.950	9.766	444.777	444.777
	8720.950	16.000	444.651	444.651

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
33.0	8731.000	– 33.522	443.985	443.985
	8731.000	– 27.332	444.114	444.114
	8731.000	– 21.141	444.243	444.243
	8731.000	– 14.951	444.372	444.372
	8731.000	– 8.761	444.491	444.491
	8731.000	– 2.571	444.552	444.552
	8731.000	3.620	444.546	444.546
	8731.000	9.810	444.474	444.474
	8731.000	16.000	444.350	444.350

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
33.5	8741.050	– 33.173	443.691	443.698
	8741.050	– 27.027	443.819	443.826
	8741.050	– 20.880	443.947	443.954
	8741.050	– 14.733	444.075	444.082
	8741.050	– 8.587	444.192	444.199
	8741.050	– 2.440	444.251	444.258
	8741.050	3.707	444.244	444.251
	8741.050	9.853	444.172	444.179
	8741.050	16.000	444.048	444.055

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
34.0	8751.100	– 32.825	443.397	443.416
	8751.100	– 26.721	443.524	443.543
	8751.100	– 20.618	443.651	443.670
	8751.100	– 14.515	443.778	443.797
	8751.100	– 8.412	443.893	443.913
	8751.100	– 2.309	443.950	443.969
	8751.100	3.794	443.942	443.962
	8751.100	9.897	443.870	443.889
	8751.100	16.000	443.747	443.766

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
34.5	8761.150	– 32.476	443.103	443.136
	8761.150	– 26.416	443.229	443.262
	8761.150	– 20.357	443.355	443.388
	8761.150	– 14.297	443.481	443.514
	8761.150	– 8.238	443.594	443.628
	8761.150	– 2.178	443.649	443.682
	8761.150	3.881	443.640	443.674
	8761.150	9.941	443.568	443.601
	8761.150	16.000	443.445	443.479

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
35.0	8771.200	– 32.127	442.808	442.853
	8771.200	– 26.111	442.933	442.978
	8771.200	– 20.095	443.059	443.103
	8771.200	– 14.080	443.184	443.228
	8771.200	– 8.064	443.295	443.340
	8771.200	– 2.048	443.348	443.393
	8771.200	3.968	443.338	443.383
	8771.200	9.984	443.265	443.310
	8771.200	16.000	443.144	443.188

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
35.5	8781.250	– 31.779	442.514	442.564
	8781.250	– 25.806	442.638	442.688
	8781.250	– 19.834	442.762	442.813
	8781.250	– 13.862	442.887	442.937
	8781.250	– 7.889	442.996	443.046
	8781.250	– 1.917	443.047	443.097
	8781.250	4.055	443.036	443.086
	8781.250	10.028	442.963	443.013
	8781.250	16.000	442.842	442.892

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
36.0	8791.300	– 31.430	442.220	442.268
	8791.300	– 25.501	442.343	442.392
	8791.300	– 19.573	442.466	442.515
	8791.300	– 13.644	442.590	442.638
	8791.300	– 7.715	442.697	442.746
	8791.300	– 1.786	442.746	442.794
	8791.300	4.142	442.734	442.782
	8791.300	10.071	442.661	442.709
	8791.300	16.000	442.541	442.589

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
36.5	8799.650	– 31.140	441.975	442.016
	8799.650	– 25.248	442.098	442.138
	8799.650	– 19.356	442.220	442.261
	8799.650	– 13.463	442.343	442.384
	8799.650	– 7.570	442.449	442.489
	8799.650	– 1.678	442.496	442.536
	8799.650	4.215	442.483	442.523
	8799.650	10.107	442.410	442.450
	8799.650	16.000 –	442.290	442.331

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
37.0	8808.000	– 30.851	441.731	441.759
	8808.000	– 24.994	441.853	441.880
	8808.000	– 19.138	441.974	442.002
	8808.000	– 13.282	442.096	442.124
	8808.000	– 7.425	442.200	442.228
	8808.000	– 1.569	442.246	442.273
	8808.000	4.287	442.232	442.260
	8808.000	10.144	442.159	442.186
	8808.000	16.000	442.040	442.068

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
37.5	8814.833	– 30.614	441.531	441.546
	8814.833	– 24.787	441.652	441.667
	8814.833	– 18.960	441.773	441.788
	8814.833	– 13.134	441.894	441.909
	8814.833	– 7.307	441.996	442.011
	8814.833	– 1.480	442.041	442.056
	8814.833	4.347	442.026	442.041
	8814.833	10.173	441.953	441.968
	8814.833	16.000	441.835	441.850

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
38.0	8821.666	– 30.377	441.331	441.331
	8821.666	– 24.580	441.451	441.451
	8821.666	– 18.783	441.572	441.572
	8821.666	– 12.985	441.692	441.692
	8821.666	– 7.188	441.793	441.793
	8821.666	– 1.391	441.836	441.836
	8821.666	4.406	441.821	441.821
	8821.666	10.203	441.748	441.748
	8821.666	16.000	441.630	441.630

NOTE: For Notes see Sh No. 41

DESIGNED BY
DRAWN BY A.C.
CHECKED BY A.J.C.
APPROVED BY R.A.

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

TABLES OF ELEVATIONS
SPANS D38 AND D39
POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

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

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

SHEET
50 OF 163

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
39.0	8824.334	- 30.284	441.253	441.253
	8824.334	- 22.570	441.413	441.413
	8824.334	- 14.856	441.573	441.573
	8824.334	- 7.142	441.713	441.713
	8824.334	.572	441.757	441.757
	8824.334	8.286	441.698	441.698
	8824.334	16.000	441.550	441.550
39.5	8832.567	- 29.999	441.012	441.024
	8832.567	- 22.332	441.171	441.183
	8832.567	- 14.666	441.330	441.342
	8832.567	- 6.999	441.468	441.480
	8832.567	.667	441.510	441.522
	8832.567	8.334	441.451	441.463
	8832.567	16.000	441.303	441.315
40.0	8840.800	- 29.713	440.770	440.792
	8840.800	- 22.094	440.929	440.950
	8840.800	- 14.475	441.087	441.109
	8840.800	- 6.857	441.223	441.244
	8840.800	.762	441.263	441.285
	8840.800	8.381	441.203	441.224
	8840.800	16.000	441.056	441.077
40.5	8850.500	- 29.377	440.486	440.514
	8850.500	- 21.814	440.644	440.671
	8850.500	- 14.251	440.80	440.829
	8850.500	- 6.688	440.934	440.961
	8850.500	.874	440.972	441.000
	8850.500	8.437	440.911	440.939
	8850.500	16.000	440.765	440.792
41.0	8860.200	- 29.040	440.202	440.229
	8860.200	- 21.533	440.359	440.385
	8860.200	- 14.027	440.515	440.541
	8860.200	- 6.520	440.645	440.672
	8860.200	.987	440.681	440.708
	8860.200	8.493	440.619	440.646
	8860.200	16.000	440.474	440.500
41.5	8869.900	- 28.704	439.918	439.939
	8869.900	- 21.253	440.073	440.094
	8869.900	- 13.802	440.228	440.249
	8869.900	- 6.352	440.356	440.376
	8869.900	1.099	440.390	440.410
	8869.900	8.549	440.327	440.348
	8869.900	16.000	440.183	440.203

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
42.0	8879.600	- 28.367	439.634	439.646
	8879.600	- 20.973	439.788	439.799
	8879.600	- 13.578	439.942	439.953
	8879.600	- 6.184	440.067	440.078
	8879.600	1.211	440.098	440.110
	8879.600	8.605	440.035	440.047
	8879.600	16.000	439.892	439.903
42.5	8889.300	- 28.031	439.350	439.354
	8889.300	- 20.692	439.503	439.506
	8889.300	- 13.354	439.656	439.659
	8889.300	- 6.015	439.777	439.781
	8889.300	1.323	439.807	439.811
	8889.300	8.662	439.744	439.747
	8889.300	16.000	439.601	439.604
43.0	8899.000	- 27.694	439.066	439.066
	8899.000	- 20.412	439.218	439.218
	8899.000	- 13.129	439.369	439.369
	8899.000	- 5.847	439.488	439.488
	8899.000	1.435	439.516	439.516
	8899.000	8.718	439.452	439.452
	8899.000	16.000	439.310	439.310
43.5	8908.700	- 27.358	438.782	438.786
	8908.700	- 20.131	438.933	438.936
	8908.700	- 12.905	439.083	439.086
	8908.700	- 5.679	439.199	439.202
	8908.700	1.547	439.225	439.228
	8908.700	8.774	439.160	439.163
	8908.700	16.000	439.019	439.022
44.0	8918.400	- 27.021	438.498	438.510
	8918.400	- 19.851	438.648	438.659
	8918.400	- 12.681	438.797	438.808
	8918.400	- 5.511	438.909	438.921
	8918.400	1.660	438.933	438.945
	8918.400	8.830	438.868	438.880
	8918.400	16.000	438.728	438.739
44.5	8928.100	- 26.685	438.214	438.236
	8928.100	- 19.571	438.362	438.384
	8928.100	- 12.457	438.510	438.532
	8928.100	- 5.342	438.620	438.641
	8928.100	1.772	438.642	438.663
	8928.100	8.886	438.576	438.598
	8928.100	16.000	438.437	438.458

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
45.0	8937.800	- 26.345	437.930	437.960
	8937.800	- 19.290	438.077	438.107
	8937.800	- 12.232	438.224	438.253
	8937.800	- 5.174	438.330	438.360
	8937.800	1.884	438.351	438.380
	8937.800	8.942	438.284	438.314
	8937.800	16.000	438.146	438.175
45.5	8947.500	- 26.012	437.646	437.679
	8947.500	- 19.010	437.792	437.825
	8947.500	- 12.008	437.938	437.971
	8947.500	- 5.006	438.041	438.074
	8947.500	1.996	438.059	438.092
	8947.500	8.998	437.992	438.025
	8947.500	16.000	437.855	437.887
46.0	8957.200	- 25.675	437.362	437.392
	8957.200	- 18.729	437.507	437.537
	8957.200	- 11.784	437.651	437.681
	8957.200	- 4.838	437.751	437.781
	8957.200	2.108	437.768	437.798
	8957.200	9.054	437.701	437.731
	8957.200	16.000	437.564	437.594
46.5	8966.900	- 25.339	437.078	437.101
	8966.900	- 18.449	437.222	437.244
	8966.900	- 11.559	437.365	437.387
	8966.900	- 4.669	437.462	437.484
	8966.900	2.220	437.476	437.499
	8966.900	9.110	437.409	437.431
	8966.900	16.000	437.273	437.295
47.0	8976.600	- 25.002	436.784	436.807
	8976.600	- 18.169	436.937	436.949
	8976.600	- 11.335	437.078	437.091
	8976.600	- 4.501	437.172	437.185
	8976.600	2.333	437.185	437.198
	8976.600	9.166	437.117	437.130
	8976.600	16.000	436.982	436.994
47.5	8986.300	- 24.666	436.510	436.515
	8986.300	- 17.888	436.651	436.656
	8986.300	- 11.111	436.782	436.796
	8986.300	- 4.333	436.882	436.887
	8986.300	2.445	436.893	436.898
	8986.300	9.222	436.825	436.829
	8986.300	16.000	436.691	436.695

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
48.0	8996.000	- 24.329	436.226	436.226
	8996.000	- 17.608	436.366	436.366
	8996.000	- 10.886	436.505	436.505
	8996.000	- 4.165	436.593	436.593
	8996.000	2.557	436.602	436.602
	8996.000	9.278	436.533	436.533
	8996.000	16.000	436.400	436.400
48.5	9005.700	- 23.993	435.942	435.944
	9005.700	- 17.328	436.081	436.083
	9005.700	- 10.662	436.218	436.220
	9005.700	- 3.997	436.303	436.305
	9005.700	2.669	436.310	436.312
	9005.700	9.334	436.241	436.243
	9005.700	16.000	436.109	436.110
49.0	9015.400	- 23.657	435.658	435.667
	9015.400	- 17.047	435.795	435.804
	9015.400	- 10.438	435.931	435.940
	9015.400	- 3.828	436.013	436.021
	9015.400	2.781	436.019	436.027
	9015.400	9.391	435.949	435.958
	9015.400	16.000	435.818	435.826
49.5	9025.100	- 23.320	435.374	435.391
	9025.100	- 16.766	435.511	435.528
	9025.100	- 10.211	435.644	435.661
	9025.100	- 3.657	435.723	435.740
	9025.100	2.897	435.727	435.744
	9025.100	9.452	435.657	435.674
	9025.100	16.000	435.527	435.544
50.0	9034.800	- 22.984	435.090	435.113
	9034.800	- 16.484	435.226	435.249
	9034.800	- 9.984	435.357	435.380
	9034.800	- 3.484	435.433	435.456
	9034.800	3.016	435.436	435.459
	9034.800	9.516	435.365	435.388
	9034.800	16.000	435.236	435.259
50.5	9044.500	- 22.650	434.806	434.830
	9044.500	- 16.204	434.940	434.964
	9044.500	- 9.759	435.070	435.094
	9044.500	- 3.313	435.143	435.167
	9044.500	3.132	435.144	435.168
	9044.500	9.577	435.073	435.097
	9044.500	16.000	434.945	434.969

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
51.0	9054.200	- 22.324	434.522	434.541
	9054.200	- 15.933	434.655	434.674
	9054.200	- 9.542	434.783	434.802
	9054.200	- 3.151	434.853	434.872
	9054.200	3.239	434.852	434.872
	9054.200	9.630	434.781	434.800
	9054.200	16.000	434.654	434.673
51.5	9062.433	- 22.054	434.281	434.291
	9062.433	- 15.709	434.413	434.423
	9062.433	- 9.365	434.539	434.549
	9062.433	- 3.020	434.607	434.617
	9062.433	3.324	434.605	434.616
	9062.433	9.669	434.534	434.544
	9062.433	16.000	434.407	434.417
52.0	9070.668	- 21.790	434.039	434.039
	9070.667	- 15.491	434.170	434.170
	9070.667	- 9.193	434.294	434.294
	9070.666	- 2.895	434.360	434.360
	9070.665	3.403	434.358	434.358
	9070.665	9.702	434.286	434.286
	9070.664	16.000	434.160	434.160

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVB-3	ST. CLAIR	262	118
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

Note:
For Notes see Sh. No. 41

DESIGNED BY
DRAWN BY I.M.
CHECKED BY A.J.C.
APPROVED BY K.A.

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

TABLES OF ELEVATIONS
SPANS D40 THRU D42
POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

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

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

SHEET
51 OF 163

SPAN D43

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
53.0	9073.332	- 21.693	433.961	433.961
	9073.323	- 14.144	434.118	434.118
	9073.334	- 6.594	434.250	434.250
	9073.334	.955	434.287	434.287
	9073.335	8.505	434.225	434.225
	9073.336	15.999	434.080	434.080
53+10	9083.304	- 21.292	433.677	433.677
	9083.312	- 13.743	433.827	433.851
	9083.319	- 6.193	433.955	433.990
	9083.326	1.356	433.986	434.022
	9083.334	8.906	433.919	433.971
	9083.341	15.983	433.780	433.815
53+20	9093.278	- 20.900	433.379	433.382
	9093.292	- 13.350	433.536	433.579
	9093.306	- 5.801	433.659	433.726
	9093.320	1.749	433.685	433.752
	9093.334	9.298	433.613	433.710
	9093.346	15.959	433.440	433.571
53+30	9103.253	- 20.516	433.088	433.105
	9103.273	- 12.966	433.244	433.303
	9103.294	- 5.417	433.363	433.453
	9103.314	2.133	433.381	433.495
	9103.335	9.682	433.348	433.437
	9103.352	15.927	433.181	433.302
53+40	9113.228	- 20.140	432.797	432.816
	9113.255	- 12.591	432.953	433.019
	9113.282	- 5.041	433.067	433.168
	9113.309	2.509	433.083	433.207
	9113.336	10.058	433.000	433.146
	9113.357	15.885	432.881	433.017
53+50	9123.238	- 12.224	432.661	432.727
	9123.271	- 4.675	432.770	432.871
	9123.305	2.875	432.781	432.905
	9123.339	10.424	432.693	432.840
	9123.363	15.835	432.582	432.718
53+60				
	9133.261	- 4.317	432.474	432.563
	9133.301	3.233	432.479	432.590
	9133.341	10.782	432.387	432.516
	9133.368	15.776	432.283	432.404
53+70				
	9143.298	3.582	432.177	432.244
	9143.345	11.131	432.080	432.176
	9143.373	15.709	431.984	432.075
53+80				
	9153.349	11.472	431.773	431.825
	9153.378	15.633	431.686	431.735
53+90				
	9163.383	15.548	431.387	431.387
54.0	9124.367	- 19.731	432.471	432.471
	9133.800	- 11.846	432.352	432.352
	9143.246	- 3.968	432.177	432.177
	9152.704	3.903	431.893	431.893
	9162.176	11.765	431.502	431.502
	9166.704	15.518	431.288	431.288

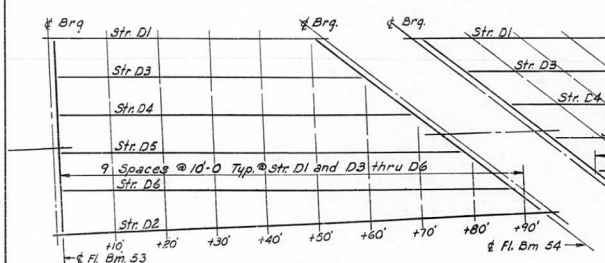
SPAN D44

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
55.0	9128.684	- 19.595	432.344	432.344
	9137.029	- 12.624	432.239	432.239
	9145.384	- 5.658	432.098	432.098
	9153.749	1.302	431.874	431.874
	9162.125	8.256	431.565	431.565
	9170.866	15.498	431.164	431.164
55+10	9136.663	- 19.334	432.050	432.135
	9147.014	- 12.369	431.945	431.999
	9155.376	- 5.410	431.801	431.855
	9163.747	1.542	431.573	431.627
	9172.128	8.489	431.261	431.315
	9180.584	15.482	430.873	430.945
55+20	9148.643	- 19.080	431.756	431.912
	9157.001	- 12.123	431.650	431.750
	9165.368	- 5.172	431.503	431.604
	9173.746	1.774	431.272	431.373
	9182.133	8.713	430.958	431.058
	9190.304	15.458	430.582	430.717
55+30	9158.624	- 18.836	431.462	431.666
	9166.988	- 11.886	431.355	431.488
	9175.361	- 4.941	431.206	431.338
	9183.745	1.996	430.972	431.104
	9192.139	8.928	430.654	430.786
	9200.023	15.427	430.291	430.468
55+40	9168.605	- 18.600	431.167	431.393
	9176.975	- 11.657	431.061	431.207
	9185.355	- 4.720	430.908	431.054
	9193.744	2.211	430.671	430.817
	9202.144	9.135	430.351	430.497
	9209.743	15.387	430.000	430.196
55+50	9178.587	- 18.372	430.673	431.091
	9186.963	- 11.437	430.765	430.907
	9195.348	- 4.507	430.609	430.751
	9203.744	2.416	430.370	430.512
	9212.150	9.333	430.047	430.189
	9219.462	15.338	429.709	429.899
55+60	9188.569	- 18.154	430.578	430.758
	9196.951	- 11.225	430.470	430.587
	9205.343	- 4.303	430.311	430.428
	9213.745	2.613	430.069	430.186
	9222.157	9.523	429.744	429.861
	9229.181	15.282	429.419	429.576
55+70	9198.551	- 17.944	430.283	430.403
	9206.939	- 11.023	430.174	430.251
	9215.337	- 4.108	430.013	430.090
	9223.745	2.801	429.768	429.846
	9232.164	9.704	429.441	429.518
	9238.900	15.217	429.129	429.233
55+80	9208.533	- 17.762	429.987	430.028
	9216.928	- 10.829	429.878	429.904
	9225.332	- 3.921	429.714	429.740
	9233.746	2.981	429.467	429.493
	9242.171	9.876	429.138	429.164
	9248.619	15.144	428.839	428.874
56.0	9213.224	- 17.651	428.848	428.848
	9221.621	- 10.740	429.739	429.739
	9230.028	- 3.836	429.574	429.574
	9238.446	3.062	429.326	429.326
	9246.873	9.954	428.995	428.995
	9253.186	15.107	428.702	428.702

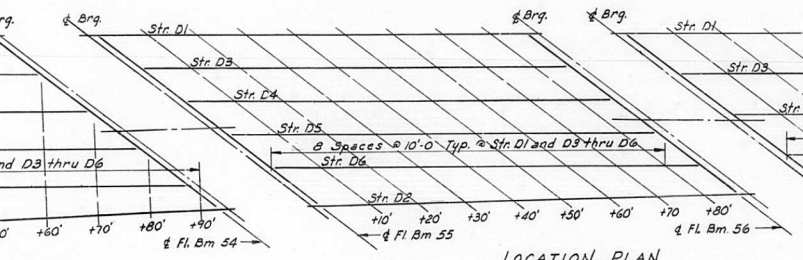
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	119
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

SPAN D45

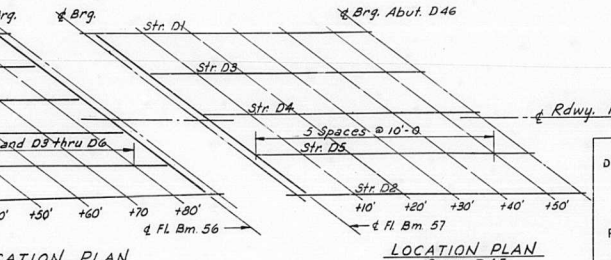
FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
57.0	9217.518	- 17.569	429.721	429.721
	9227.475	- 9.383	429.587	429.587
	9237.445	- 1.206	429.363	429.363
	9247.430	6.963	429.023	429.023
	9257.428	15.123	428.575	428.575
57+10	9227.500	- 17.384	429.426	429.450
	9237.464	- 9.207	429.290	429.314
	9247.442	- 1.038	429.063	429.087
	9257.433	7.122	428.721	428.745
	9267.439	15.273	428.271	428.295
57+20	9237.484	- 17.207	429.130	429.184
	9247.455	- 9.039	428.993	429.032
	9257.440	- .879	428.764	428.803
	9267.439	7.272	428.418	428.457
	9277.452	15.414	427.968	428.022
57+30	9247.468	- 17.040	428.834	428.890
	9257.446	- 8.880	428.696	428.736
	9267.438	- .729	428.464	428.504
	9277.444	7.414	428.117	428.157
	9287.464	15.547	427.665	427.721
57+40	9257.548	- 16.879	428.535	428.573
	9267.533	- 8.728	428.395	428.423
	9277.532	- .586	428.161	428.189
	9287.546	7.548	427.812	427.839
	9297.573	15.673	427.359	427.397
57+50	9267.436	- 16.731	428.241	428.246
	9277.429	- 8.588	428.101	428.106
	9287.435	- .454	427.864	427.869
	9297.456	7.671	427.513	427.518
	9307.490	15.787	427.059	427.064
℄ BRG. ABUT. D46	9270.281	- 16.689	428.156	428.156
	9280.276	- 8.554	428.015	428.015
	9290.284	- .428	427.778	427.778
	9300.307	7.698	427.426	427.426
	9310.344	15.818	426.972	426.972



LOCATION PLAN
Span D43



LOCATION PLAN
Span D44



LOCATION PLAN
Span D45

NOTE Stringers are identified in the Tables by their offset.

DESIGNED BY
DRAWN BY A.C.
CHECKED BY A.J.C.
APPROVED BY K.A.

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

TABLES OF ELEVATIONS
SPANS D43 THRU D45

POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

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

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

SHEET 52 OF 163

FL EM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
1.0	2043.334	- 4.000	487.938	487.938
	2043.334	4.000	488.200	488.200
	2043.334	12.000	488.462	488.462
	2043.334	20.000	488.725	488.725
1.5	2048.667	- 4.000	487.736	487.752
	2048.667	4.000	487.983	487.999
	2048.667	12.000	488.230	488.246
	2048.667	20.000	488.477	488.493
2.0	2054.000	- 4.000	487.532	487.563
	2054.000	4.000	487.763	487.795
	2054.000	12.000	487.995	488.026
	2054.000	20.000	488.227	488.258
2.5	2062.000	- 4.000	487.219	487.270
	2062.000	4.000	487.427	487.478
	2062.000	12.000	487.636	487.687
	2062.000	20.000	487.845	487.896
3.0	2070.000	- 4.000	486.899	486.964
	2070.000	4.000	487.084	487.150
	2070.000	12.000	487.270	487.336
	2070.000	20.000	487.455	487.521
3.5	2079.500	- 4.000	486.509	486.584
	2079.500	4.000	486.668	486.742
	2079.500	12.000	486.826	486.900
	2079.500	20.000	486.984	487.059
4.0	2089.000	- 4.000	486.110	486.184
	2089.000	4.000	486.241	486.315
	2089.000	12.000	486.372	486.446
	2089.000	20.000	486.503	486.577
4.5	2098.500	- 4.000	485.701	485.766
	2098.500	4.000	485.804	485.869
	2098.500	12.000	485.908	485.973
	2098.500	20.000	486.011	486.076
5.0	2108.000	- 4.000	485.282	485.331
	2108.000	4.000	485.358	485.407
	2108.000	12.000	485.434	485.483
	2108.000	20.000	485.510	485.559

FL EM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
5.5	2117.500	- 4.000	484.852	484.883
	2117.500	4.000	484.901	484.932
	2117.500	12.000	484.950	484.981
	2117.500	20.000	484.999	485.029
6.0	2127.000	- 4.000	484.413	484.42
	2127.000	4.000	484.434	484.448
	2127.000	12.000	484.456	484.469
	2127.000	20.000	484.477	484.491
6.5	2136.500	- 4.000	483.953	483.966
	2136.500	4.000	483.958	483.960
	2136.500	12.000	483.952	483.954
	2136.500	20.000	483.946	483.948
7.0	2146.000	- 4.000	483.504	483.504
	2146.000	4.000	483.471	483.471
	2146.000	12.000	483.437	483.437
	2146.000	20.000	483.404	483.404
7.5	2155.500	- 4.000	483.031	483.039
	2155.500	4.000	482.974	482.979
	2155.500	12.000	482.913	482.918
	2155.500	20.000	482.853	482.858
8.0	2165.000	- 4.000	482.555	482.572
	2165.000	4.000	482.467	482.484
	2165.000	12.000	482.379	482.396
	2165.000	20.000	482.291	482.309
8.5	2174.500	- 4.000	482.065	482.100
	2174.500	4.000	481.950	481.985
	2174.500	12.000	481.835	481.870
	2174.500	20.000	481.720	481.754
9.0	2184.000	- 4.000	481.566	481.620
	2184.000	4.000	481.423	481.477
	2184.000	12.000	481.281	481.335
	2184.000	20.000	481.138	481.192
9.5	2193.500	- 4.000	481.056	481.127
	2193.500	4.000	480.886	480.957
	2193.500	12.000	480.716	480.787
	2193.500	20.000	480.546	480.617

FL EM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
10.0	2203.000	- 4.000	480.537	480.620
	2203.000	4.000	480.339	480.422
	2203.000	12.000	480.142	480.225
	2203.000	20.000	479.945	480.028
10.5	2212.500	- 4.000	480.007	480.095
	2212.500	4.000	479.782	479.870
	2212.500	12.000	479.558	479.646
	2212.500	20.000	479.333	479.421
11.0	2222.000	- 4.000	479.467	479.550
	2222.000	4.000	479.215	479.298
	2222.000	12.000	478.963	479.046
	2222.000	20.000	478.711	478.794
11.5	2231.500	- 4.000	478.918	478.989
	2231.500	4.000	478.638	478.709
	2231.500	12.000	478.359	478.430
	2231.500	20.000	478.080	478.150
12.0	2241.000	- 4.000	478.362	478.415
	2241.000	4.000	478.055	478.109
	2241.000	12.000	477.748	477.802
	2241.000	20.000	477.441	477.495
12.5	2250.500	- 4.000	477.805	477.840
	2250.500	4.000	477.471	477.506
	2250.500	12.000	477.137	477.172
	2250.500	20.000	476.803	476.838
13.0	2260.000	- 4.000	477.249	477.267
	2260.000	4.000	476.887	476.905
	2260.000	12.000	476.526	476.544
	2260.000	20.000	476.165	476.182
13.5	2269.500	- 4.000	476.693	476.698
	2269.500	4.000	476.304	476.309
	2269.500	12.000	475.915	475.920
	2269.500	20.000	475.526	475.532
14.0	2279.000	- 4.000	476.136	476.136
	2279.000	4.000	475.720	475.720
	2279.000	12.000	475.304	475.304
	2279.000	20.000	474.888	474.888

FL EM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
14.5	2288.500	- 4.000	475.581	475.582
	2288.500	4.059	475.132	475.133
	2288.500	12.059	474.686	474.686
	2288.500	20.000	474.243	474.243
15.0	2298.000	- 4.000	475.027	475.037
	2298.000	4.098	474.543	474.553
	2298.000	12.098	474.065	474.075
	2298.000	20.000	473.593	473.603
15.5	2307.500	- 4.000	474.473	474.496
	2307.500	4.059	473.960	473.983
	2307.500	12.059	473.450	473.473
	2307.500	20.000	472.944	472.967
16.0	2317.000	- 4.000	473.919	473.957
	2317.000	4.059	473.373	473.412
	2317.000	12.059	472.832	472.871
	2317.000	20.000	472.295	472.333
16.5	2326.500	- 4.000	473.365	473.416
	2326.500	4.145	472.781	472.833
	2326.500	12.144	472.208	472.260
	2326.500	20.000	471.645	471.697
17.0	2336.000	- 4.000	472.811	472.870
	2336.000	4.151	472.194	472.253
	2336.000	12.150	471.590	471.649
	2336.000	20.000	470.996	471.055
17.5	2345.500	- 4.000	472.256	472.316
	2345.500	4.078	471.614	471.674
	2345.500	12.078	470.977	471.037
	2345.500	20.000	470.347	470.407
18.0	2355.000	- 4.000	471.688	471.741
	2355.000	4.047	471.044	471.097
	2355.000	12.046	470.404	470.457
	2355.000	20.000	469.768	469.821
18.5	2363.000	- 4.000	471.208	471.249
	2363.000	4.098	470.560	470.602
	2363.000	12.097	469.920	469.962
	2363.000	20.000	469.288	469.329

FL EM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.I.
19.0	2371.000	- 4.000	470.728	470.754
	2371.000	4.093	470.081	470.106
	2371.000	12.092	469.441	469.466
	2371.000	20.000	468.808	468.834
19.5	2376.333	- 4.000	470.408	470.421
	2376.333	4.059	469.763	469.777
	2376.333	12.059	469.123	469.137
	2376.333	20.000	468.488	468.501
20.0	2381.670	- 4.000	470.088	470.088
	2381.661	4.000	469.448	469.448
	2381.651	12.000	468.809	468.809
	2381.642	20.000	468.170	468.170

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	120
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

NOTE: For Notes See Sh. No. 41

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

TABLES OF ELEVATIONS

SPANS S19 THRU S21

POPLAR STREET BRIDGE APPROACHES
RAMP "S"

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

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

SHEET 53 OF 163

DESIGNED BY
DRAWN BY I.M.
CHECKED BY A.C.
APPROVED BY K.A.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	121
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
21.0	2384.330	- 4.000	469.928	469.928
	2384.339	4.000	469.288	469.288
	2384.349	12.000	468.647	468.647
	2384.358	20.000	468.007	468.007
21.5	2392.867	- 4.000	469.416	469.430
	2392.867	4.047	468.772	468.786
	2392.867	12.045	468.132	468.146
	2392.867	20.000	467.496	467.510
22.0	2401.400	- 4.000	468.904	468.929
	2401.400	4.030	468.262	468.286
	2401.400	12.030	467.622	467.646
	2401.400	20.000	466.984	467.009
22.5	2412.000	- 4.000	468.268	468.300
	2412.000	4.080	467.622	467.654
	2412.000	12.080	466.982	467.014
	2412.000	20.000	466.348	466.380
23.0	2422.600	- 4.000	467.632	467.663
	2422.600	4.129	466.982	467.012
	2422.600	12.128	466.342	466.372
	2422.600	20.000	465.712	465.743
23.5	2433.200	- 4.000	466.996	467.018
	2433.200	4.080	466.350	466.372
	2433.200	12.080	465.710	465.732
	2433.200	20.000	465.076	465.098
24.0	2443.800	- 4.000	466.360	466.371
	2443.800	4.030	465.718	465.728
	2443.800	12.030	465.078	465.088
	2443.800	20.000	464.440	464.451
24.5	2454.400	- 4.000	465.724	465.726
	2454.400	4.042	465.081	465.083
	2454.400	12.042	464.441	464.443
	2454.400	20.000	463.804	463.806
25.0	2465.000	- 4.000	465.088	465.088
	2465.000	4.044	464.445	464.445
	2465.000	12.044	463.805	463.805
	2465.000	20.000	463.168	463.168

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
25.5	2475.600	- 4.000	464.452	464.459
	2475.600	4.093	463.805	463.811
	2475.600	12.093	463.165	463.171
	2475.600	20.000	462.532	462.539
26.0	2486.200	- 4.000	463.816	463.835
	2486.200	4.044	463.173	463.192
	2486.200	12.044	462.533	462.552
	2486.200	20.000	461.896	461.915
26.5	2496.800	- 4.000	463.180	463.214
	2496.800	4.042	462.537	462.570
	2496.800	12.042	461.897	461.930
	2496.800	20.000	461.260	461.294
27.0	2507.400	- 4.000	462.535	462.580
	2507.400	4.030	461.911	461.956
	2507.400	12.030	461.289	461.334
	2507.400	20.000	460.670	460.715
27.5	2518.000	- 4.000	461.881	461.931
	2518.000	4.080	461.289	461.339
	2518.000	12.080	460.703	460.753
	2518.000	20.000	460.122	460.172
28.0	2528.600	- 4.000	461.228	461.273
	2528.600	4.129	460.668	460.713
	2528.600	12.128	460.116	460.162
	2528.600	20.000	459.574	459.620
28.5	2539.200	- 4.000	460.574	460.606
	2539.200	4.080	460.053	460.087
	2539.200	12.080	459.537	459.572
	2539.200	20.000	459.027	459.061
29.0	2549.800	- 4.000	459.920	459.940
	2549.800	4.044	459.437	459.457
	2549.800	12.044	458.957	458.977
	2549.800	20.000	458.479	458.499
29.5	2560.400	- 4.000	459.271	459.278
	2560.400	4.093	458.820	458.827
	2560.400	12.093	458.375	458.382
	2560.400	20.000	457.935	457.942

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
30.0	2571.000	- 4.000	458.633	458.633
	2571.000	4.044	458.221	458.221
	2571.000	12.044	457.811	457.811
	2571.000	20.000	457.403	457.403
30.5	2581.600	- 4.000	458.008	458.010
	2581.600	4.017	457.633	457.634
	2581.600	12.017	457.258	457.260
	2581.600	20.000	456.884	456.886
31.0	2592.200	- 4.000	457.395	457.407
	2592.200	4.005	457.056	457.068
	2592.200	12.005	456.717	456.728
	2592.200	20.000	456.378	456.389
31.5	2602.800	- 4.000	456.795	456.820
	2602.800	4.000	456.491	456.516
	2602.800	12.000	456.188	456.212
	2602.800	20.000	455.884	455.908
32.0	2613.400	- 4.000	456.206	456.241
	2613.400	4.000	455.939	455.972
	2613.400	12.000	455.671	455.704
	2613.400	20.000	455.402	455.435
32.5	2624.000	- 4.000	455.633	455.667
	2624.000	4.000	455.399	455.434
	2624.000	12.000	455.166	455.201
	2624.000	20.000	454.933	454.968
33.0	2634.600	- 4.000	455.070	455.097
	2634.600	4.000	454.872	454.899
	2634.600	12.000	454.674	454.702
	2634.600	20.000	454.476	454.504
33.5	2643.467	- 4.000	454.609	454.624
	2643.467	4.000	454.441	454.456
	2643.467	12.000	454.272	454.288
	2643.467	20.000	454.104	454.120
34.0	2652.194	- 4.000	454.164	454.164
	2652.471	4.000	454.011	454.011
	2652.749	12.000	453.861	453.861
	2653.026	20.000	453.712	453.712

NOTE: For Notes See Sh. No. 41

DESIGNED BY
DRAWN BY I.M.
CHECKED BY A.C.
APPROVED BY K.A.

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

TABLES OF ELEVATIONS
SPANS S 22 THRU D 36-S
POPLAR STREET BRIDGE APPROACHES
RAMP "S"

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

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

SHEET 54 of 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVB-3	ST. CLAIR	2G2	122
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

FL BM NO.	STATION	OFFSET	THEO. TOP OF ROAD	THEO. ADJ. FOR D.L.
1.0	618.250	- 20.000	452.722	452.722
	618.733	- 12.000	452.442	452.442
	619.215	- 4.000	452.159	452.159
	619.698	4.000	451.873	451.873
1.5	627.628	- 20.000	452.917	452.930
	627.628	- 12.000	452.597	452.610
	627.628	- 4.000	452.277	452.289
	627.628	4.000	451.957	451.968
2.0	636.200	- 20.000	453.080	453.102
	636.200	- 12.000	452.732	452.753
	636.200	- 4.000	452.384	452.405
	636.200	4.000	452.035	452.056
2.5	646.500	- 20.000	453.269	453.297
	646.500	- 12.000	452.887	452.914
	646.500	- 4.000	452.504	452.531
	646.500	4.000	452.122	452.149
3.0	656.800	- 20.000	453.447	453.473
	656.800	- 12.000	453.030	453.056
	656.800	- 4.000	452.613	452.640
	656.800	4.000	452.196	452.223
3.5	667.100	- 20.000	453.612	453.632
	667.100	- 12.000	453.161	453.181
	667.100	- 4.000	452.710	452.730
	667.100	4.000	452.259	452.279
4.0	677.400	- 20.000	453.766	453.777
	677.400	- 11.930	453.276	453.287
	677.400	- 3.930	452.791	452.802
	677.400	4.000	452.310	422.320
4.5	687.700	- 20.000	453.908	453.911
	687.700	- 11.850	453.379	453.381
	687.700	- 3.851	452.859	452.862
	687.700	4.000	452.349	452.352
5.0	698.000	- 20.000	454.039	454.039
	698.000	- 11.923	453.479	453.479
	698.000	- 3.924	452.925	452.925
	698.000	4.000	452.376	452.376
5.5	708.100	- 20.000	454.155	454.159
	708.100	- 11.939	453.563	453.567
	708.100	- 3.940	452.975	452.979
	708.100	4.000	452.391	452.395
6.0	718.200	- 20.000	454.260	454.272
	718.200	- 11.950	453.635	453.647
	718.200	- 3.951	453.013	453.026
	718.200	4.000	452.395	452.408
6.5	728.300	- 20.000	454.316	454.338
	728.300	- 11.939	453.671	453.693
	728.300	- 3.940	453.031	453.053
	728.300	4.000	452.396	452.418
7.0	738.400	- 20.000	454.314	454.344
	738.400	- 11.950	453.670	453.700
	738.400	- 3.951	453.030	453.060
	738.400	4.000	452.394	452.424
7.5	748.500	- 20.000	454.301	454.335
	748.500	- 11.939	453.656	453.690
	748.500	- 3.940	453.016	453.050
	748.500	4.000	452.381	452.415
8.0	758.600	- 20.000	454.276	454.307
	758.600	- 11.950	453.632	453.663
	758.600	- 3.951	452.992	453.024
	758.600	4.000	452.356	452.387
8.5	768.700	- 20.000	454.240	454.264
	768.700	- 11.976	453.598	453.622
	768.700	- 3.976	452.958	452.982
	768.700	4.000	452.320	452.344
9.0	778.800	- 20.000	454.193	454.207
	778.800	- 11.923	453.547	453.561
	778.800	- 3.924	452.907	452.921
	778.800	4.000	452.273	452.287
9.5	788.900	- 20.000	454.135	454.140
	788.900	- 11.849	453.482	453.487
	788.900	- 3.851	452.843	452.848
	788.900	4.000	452.215	452.220
10.0	799.000	- 20.000	454.065	454.065
	799.000	- 11.923	453.419	453.419
	799.000	- 3.924	452.779	452.779
	799.000	4.000	452.145	452.145
10.5	809.300	- 20.000	453.[illegible]	453.991
	809.300	- 11.936	453.337	453.345
	809.300	- 3.937	452.697	452.705
	809.300	4.000	452.062	452.071
11.0	819.600	- 20.000	453.887	453.909
	819.600	- 11.949	453.243	453.264
	819.600	- 3.950	452.603	452.625
	819.600	4.000	451.967	451.989
11.5	829.900	- 20.000	453.781	453.815
	829.900	- 11.936	453.136	453.170
	829.900	- 3.937	452.496	452.530
	829.900	4.000	451.861	451.895
12.0	840.200	- 20.000	453.662	453.706
	840.200	- 11.949	453.018	453.062
	840.200	- 3.950	452.378	452.422
	840.200	4.000	451.742	451.786
12.5	850.500	- 20.000	453.532	453.580
	850.500	- 11.936	452.887	452.935
	850.500	- 3.937	452.247	452.295
	850.500	4.000	451.612	451.660
13.0	860.800	- 20.000	453.390	453.434
	860.800	- 11.949	452.746	452.790
	860.800	- 3.950	452.106	452.150
	860.800	4.000	451.470	451.514
13.5	871.100	- 20.000	453.237	453.270
	871.100	- 11.974	452.595	452.628
	871.100	- 3.974	451.955	451.988
	871.100	4.000	451.317	451.350
14.0	881.400	- 20.000	453.071	453.092
	881.400	- 11.922	452.425	452.446
	881.400	- 3.923	451.785	451.806
	881.400	4.000	451.151	451.172
14.5	891.700	- 20.000	452.894	452.902
	891.700	- 11.845	452.242	452.250
	891.700	- 3.847	451.602	451.610
	891.700	4.000	450.974	450.982
15.0	902.000	- 20.000	452.705	452.705
	902.000	- 11.922	452.059	452.059
	902.000	- 3.923	451.419	451.419
	902.000	4.000	450.785	450.785
15.5	912.300	- 20.000	452.504	452.513
	912.300	- 11.936	451.859	451.868
	912.300	- 3.937	451.219	451.228
	912.300	4.000	450.584	450.593
16.0	922.600	- 20.000	452.292	452.313
	922.600	- 11.949	451.648	451.669
	922.600	- 3.950	451.008	451.029
	922.600	4.000	450.372	450.393
16.5	932.900	- 20.000	452.067	452.102
	932.900	- 11.936	451.422	451.457
	932.900	- 3.937	450.782	450.817
	932.900	4.000	450.147	450.182
17.0	943.200	- 20.000	451.831	451.875
	943.200	- 11.949	451.187	451.231
	943.200	- 3.950	450.547	450.591
	943.200	4.000	449.911	449.955
17.5	953.500	- 20.000	451.583	451.631
	953.500	- 11.936	450.938	450.986
	953.500	- 3.937	450.298	450.346
	953.500	4.000	449.663	449.711
18.0	963.800	- 20.000	451.324	451.367
	963.800	- 11.949	450.679	450.723
	963.800	- 3.950	450.039	450.083
	963.800	4.000	449.404	449.447
18.5	974.100	- 20.000	451.052	451.086
	974.100	- 11.974	450.410	450.444
	974.100	- 3.974	449.770	449.804
	974.100	4.000	449.132	449.166
19.0	984.400	- 20.000	450.769	450.789
	984.400	- 11.922	450.122	450.143
	984.400	- 3.923	449.483	449.503
	984.400	4.000	448.849	448.869
19.5	994.700	- 20.000	450.474	450.482
	994.700	- 11.845	449.821	449.829
	994.700	- 3.847	449.181	449.190
	994.700	4.000	448.554	448.562
20.0	1005.000	- 20.000	450.167	450.167
	1005.000	- 11.922	449.520	449.520
	1005.000	- 3.923	448.881	448.881
	1005.000	4.000	448.247	448.247
20.5	1015.100	- 20.000	449.854	449.858
	1015.100	- 11.939	449.209	449.213
	1015.100	- 3.940	448.570	448.573
	1015.100	4.000	447.934	447.938
21.0	1025.200	- 20.000	449.531	449.543
	1025.200	- 11.950	448.887	448.899
	1025.200	- 3.951	448.247	448.259
	1025.200	4.000	447.611	447.623
21.5	1035.300	- 20.000	449.196	449.218
	1035.300	- 11.939	448.551	448.573
	1035.300	- 3.940	447.911	447.933
	1035.300	4.000	447.276	447.298
22.0	1045.400	- 20.000	448.849	448.880
	1045.400	- 11.950	448.205	448.236
	1045.400	- 3.951	447.565	447.596
	1045.400	4.000	446.929	446.960
22.5	1055.500	- 20.000	448.491	448.526
	1055.500	- 11.939	447.847	447.881
	1055.500	- 3.940	447.207	447.241
	1055.500	4.000	446.571	446.606
23.0	1065.600	- 20.000	448.123	448.154
	1065.600	- 11.950	447.479	447.510
	1065.600	- 3.951	446.839	446.871
	1065.600	4.000	446.203	446.234
23.5	1075.700	- 20.000	447.752	447.776
	1075.700	- 11.976	447.110	447.134
	1075.700	- 3.976	446.471	446.494
	1075.700	4.000	445.832	445.856
24.0	1085.800	- 20.000	447.382	447.396
	1085.800	- 11.923	446.736	446.750
	1085.800	- 3.924	446.096	446.110
	1085.800	4.000	445.462	445.476
24.5	1095.900	- 20.000	447.011	447.016
	1095.900	- 11.849	446.359	446.364
	1095.900	- 3.851	445.719	445.724
	1095.900	4.000	445.091	445.096
25.0	1106.000	- 20.000	446.640	446.640
	1106.000	- 11.923	445.994	445.994
	1106.000	- 3.924	445.354	445.354
	1106.000	4.000	444.720	444.720
25.5	1116.300	- 20.000	446.262	446.276
	1116.300	- 11.936	445.617	445.631
	1116.300	- 3.937	444.977	444.991
	1116.300	4.000	444.342	444.356
26.0	1126.600	- 20.000	445.884	445.908
	1126.600	- 11.949	445.240	445.264
	1126.600	- 3.950	444.600	444.624
	1126.600	4.000	443.964	443.988
26.5	1136.900	- 20.000	445.506	445.534
	1136.900	- 11.936	444.861	444.889
	1136.900	- 3.937	444.221	444.249
	1136.900	4.000	443.[illegible]	443.614
27.0	1147.200	- 20.000	445.129	445.154
	1147.200	- 11.949	444.485	444.510
	1147.200	- 3.950	443.845	443.870
	1147.200	4.000	443.209	443.234
27.5	1157.500	- 20.000	444.762	444.779
	1157.500	- 11.971	444.119	444.137
	1157.500	- 3.972	443.479	443.497
	1157.500	4.000	442.842	442.859
28.0	1167.800	- 20.000	444.408	444.416
	1167.800	- 11.953	443.764	443.772
	1167.800	- 3.953	443.124	443.132
	1167.800	4.000	442.488	442.496
28.5	1176.608	- 20.000	444.116	444.118
	1176.608	- 11.920	443.470	443.472
	1176.608	- 3.921	442.830	442.832
	1176.608	4.000	442.196	442.198
29.0	1185.432	- 20.000	443.834	443.834
	1185.426	- 12.000	443.194	443.194
	1185.419	- 4.000	442.554	442.554
	1185.412	4.000	441.914	441.914

Note

For Notes see Sh. No. 41

DESIGNED BY
DRAWN BY A.C.
CHECKED BY A.J.C.
APPROVED BY K.A.

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

TABLES OF ELEVATIONS

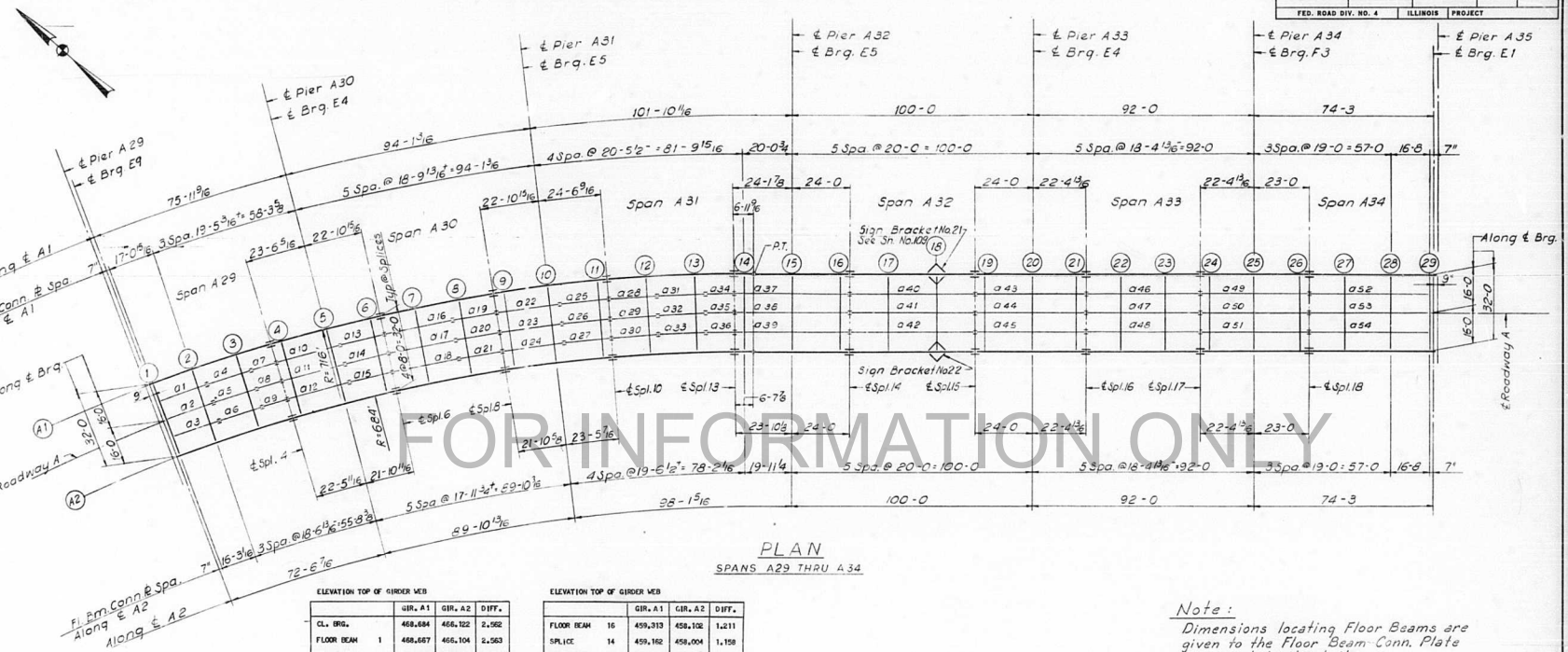
SPANS T1 THRU T6
POPLAR STREET BRIDGE APPROACHES
RAMP "T"

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

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

SHEET
55 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVB-3	ST. CLAIR	262	123
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	



PLAN

SPANS A29 THRU A34

ELEVATION TOP OF GIRDER WEB

		GIR. A1	GIR. A2	DIFF.
CL. BRG.		468.684	466.122	2.562
FLOOR BEAM	1	468.667	466.104	2.563
FLOOR BEAM	2	468.166	465.606	2.560
FLOOR BEAM	3	467.596	465.036	2.560
SPLICE	4	467.146	464.586	2.560
FLOOR BEAM	4	467.026	464.466	2.560
FLOOR BEAM	5	466.456	463.896	2.560
FLOOR BEAM	6	465.904	463.344	2.560
SPLICE	6	465.784	463.224	2.560
FLOOR BEAM	7	465.352	462.792	2.560
FLOOR BEAM	8	464.800	462.240	2.560
SPLICE	8	464.368	461.808	2.560
FLOOR BEAM	9	464.245	461.691	2.554
FLOOR BEAM	10	463.676	461.150	2.526
FLOOR BEAM	11	463.059	460.562	2.497
SPLICE	10	462.935	460.444	2.491
FLOOR BEAM	12	462.331	460.054	2.277
FLOOR BEAM	13	461.576	459.566	2.010
SPLICE	13	460.972	459.175	1.797
FLOOR BEAM	14	460 919	459.080	1.739
FLOOR BEAM	15	460.064	458.592	1.472

ELEVATION TOP OF GIRDER WEB

		GIR. A1	GIR. A2	DIFF.
FLOOR BEAM	16	459.313	458.102	1.211
SPLICE	14	459.162	458.004	1.158
FLOOR BEAM	17	458.551	457.632	.919
FLOOR BEAM	18	457.786	457.167	.619
SPLICE	15	457.175	456.794	.380
FLOOR BEAM	19	457.050	456.702	.348
FLOOR BEAM	20	456.424	456.240	.184
FLOOR BEAM	21	455.848	455.816	.032
SPLICE	16	455.723	455.723	.000
FLOOR BEAM	22	455.053	455.353	.000
FLOOR BEAM	23	454.680	454.680	.000
SPLICE	17	454.509	454.509	.000
FLOOR BEAM	24	454.412	454.412	.000
FLOOR BEAM	25	453.967	453.967	.000
FLOOR BEAM	26	453.506	453.505	.000
SPLICE	18	453.409	453.409	.000
FLOOR BEAM	27	453.057	453.057	.000
FLOOR BEAM	28	452.611	452.611	.000
FLOOR BEAM	29	452.219	452.219	.000
CL. BRG.		452.205	452.205	.000

Note:
Dimensions locating Floor Beams are given to the Floor Beam Conn. Plate see Sketch Sheet No. 60

BILL OF MATERIAL		
*Structural Steel	Lbs.	658,520

* Weight of Bearing Assemblies with Lead Plates and Anchor Bolts are Included as Structural Steel Est. Wt. 16,150 Lbs.

DESIGNED BY A.T.
DRAWN BY I.M.
CHECKED BY S.A.B.
APPROVED BY K.A.

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

FRAMING PLAN
SPANS A29 THRU A34
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-3

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

SHEET
56 OF 163

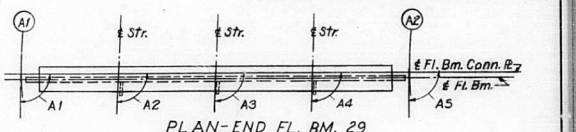
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. – 70	82–3HVB–3	ST. CLAIR	262	124
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

STRINGER DIMENSIONS

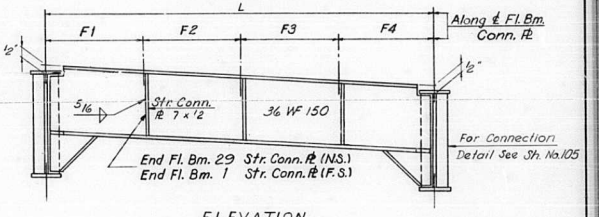
STR	L	S1	S2	S3	S4	B1	B2
1	20'-11"	16'-10" 7/16	○	○	4 – 9/16"	90.57.16'	90.50.47'
2	20 8	16 8	↑	↑	4	90.57.18	90.50.45
3	20 5	16 5 1/2	↑	↑	3 11 7/16	90.57.20	90.50.43
4	19 2 5/8	15 2 1/16	↑	↑	4 9/16	90.46.39	90.46.39
5	19	15	↑	↑	4	90.46.39	90.46.39
6	18 9 3/8	14 9 15/16	↑	↑	3 11 7/16	90.46.39	90.46.39
7	11 1 1/2	○	↑	↑	○	90.27.01	90.27.01
8	11	↓	↑	↑	↓	90.27.01	90.27.01
9	10 10 1/2	○	○	↑	○	90.27.01	90.27.01
10	27 3 11/16	4 9/16	19 2 9/16	↑	4 9/16	91.06.18	91.06.18
11	27	4	19	↑	4	91.06.18	91.06.18
12	26 8 1/4	3 11 7/16	18 9 3/8	↑	3 11 7/16	91.06.18	91.06.18
13	18 7 5/16	14 6 3/4	○	↑	4 9/16	90.45.11	90.45.11
14	18 4 13/16	14 4 13/16	↑	↑	4	90.45.11	90.45.11
15	18 2 1/4	14 2 13/16	↑	↑	3 11 7/16	90.45.11	90.45.11
16	29 1 1/2	14 6 3/4	↑	↑	14 6 3/4	91.10.43	91.10.43
17	28 9 9/16	14 4 13/16	↑	↑	14 4 13/16	91.10.43	91.10.43
18	28 5 5/8	14 2 13/16	↑	↑	14 2 13/16	91.10.43	91.10.43
19	18 7 5/16	4 9/16	↑	↑	14 6 3/4	90.45.11	90.45.11
20	18 4 13/16	4	↑	↑	14 4 13/16	90.45.11	90.45.11
21	18 2 1/4	3 11 7/16	○	↑	14 2 13/16	90.45.11	90.45.11
22	26 8 3/8	4 9/16	18 7 5/16	↑	4 9/16	91.04.50	91.04.50
23	26 4 13/16	4	18 4 3/4	↑	4	91.04.50	91.04.50
24	26 1 3/16	3 11 7/16	18 2 1/4	↑	3 11 7/16	91.04.50	91.04.50
25	20 2 3/4	16 2 3/16	○	↑	4 9/16	90.49.07	90.49.07
26	20	16	↑	↑	4	90.49.07	90.49.07
27	19 9 1/4	15 9 13/16	↑	↑	3 11 7/16	90.49.07	90.49.07
28	20 2 3/4	16 2 3/16	↑	↑	4 9/16	90.49.07	90.49.07
29	20	16	↑	↑	4	90.49.07	90.49.07
30	19 9 1/4	15 9 13/16	↑	↑	3 11 7/16	90.49.07	90.49.07
31	20 2 3/4	16 2 3/16	↑	↑	4 9/16	90.49.07	90.49.07
32	20	16	↑	↑	4	90.49.07	90.49.07
33	19 9 1/4	15 9 13/16	↑	↑	3 11 7/16	90.49.07	90.49.07
34	12 1 5/8	○	↑	↑	○	90.29.28	90.29.28
35	12	↓	↑	↑	↓	90.29.28	90.29.28
36	11 10 3/8	○	○	○	○	90.29.28	90.29.28
37	48 15/16	4 9/16	20 3/8	20	4	90.31.03	90.02.24
38	48	4	20	20	4	90.31.04	90.02.22
39	47 11 1/16	3 11 7/16	19 11 5/8	20	4	90.31.05	90.02.21
40	52	16	20	○	16	90.00.00	90.00.00
41	52	16	20	↑	16	90.00.00	90.00.00
42	52	16	20	↑	16	90.00.00	90.00.00
43	46 4 13/16	4	20	18 4 13/16	4	90.00.00	90.00.00
44	46 4 13/16	4	20	18 4 13/16	4	90.00.00	90.00.00
45	46 4 13/16	4	20	18 4 13/16	4	90.00.00	90.00.00
46	47 2 3/8	14 4 13/16	18 4 13/16	↑	14 4 13/16	90.00.00	90.00.00
47	47 2 3/8	14 4 13/16	18 4 13/16	↑	14 4 13/16	90.00.00	90.00.00
48	47 2 3/8	14 4 13/16	18 4 13/16	○	14 4 13/16	90.00.00	90.00.00
49	45 4 13/16	4	18 4 13/16	19	4	90.00.00	90.00.00
50	45 4 13/16	4	18 4 13/16	19	4	90.00.00	90.00.00
51	45 4 13/16	4	18 4 13/16	19	4	90.00.00	90.00.00
52	50 8	15	19	↑	16 8	90.00.00	90.00.00
53	50 8	15	19	↑	16 8	90.00.00	90.00.00
54	50 8	15	19	○	16 8	90.00.00	90.00.00

FLOOR BEAM DIMENSIONS

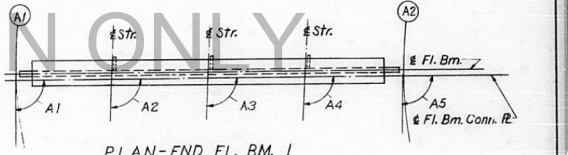
FL BM	L	F1	F2	F3	F4	A1	A2	A3	A4	A5
1	32'-0"	8'-0"	8'-0"	8'-0"	8'-0"	90.06.84'	90.57.16'	90.57.18'	90.57.20'	90.06.42'
2	32	8 9/16	8	8	7 11 7/16	90.00.00	89.28.52	89.28.54	89.28.56	90.00.00
3	32	8 1/2	8	8	7 11 1/2	90.00.00	89.32.59	89.32.59	89.32.59	90.00.00
4	32	8 13/16	8	8	7 11 1/4	90.00.00	90.46.39	90.46.39	90.46.39	90.00.00
5	32	8 13/16	8	8	7 11 1/4	90.00.00	89.13.21	89.13.21	89.13.21	90.00.00
6	32	8 1/2	8	8	7 11 1/2	90.00.00	89.34.28	89.34.28	89.34.28	90.00.00
7	32	8 1 13/16	8	8	7 10 1/4	90.00.00	90.00.00	90.00.00	90.00.00	90.00.00
8	32	8 1/2	8	8	7 11 1/2	90.00.00	90.25.32	90.25.32	90.25.32	90.00.00
9	32	8 3/4	8	8	7 11 1/4	90.00.00	90.45.11	90.45.11	90.45.11	90.00.00
10	32	8 3/4	8	8	7 11 1/4	90.00.00	89.14.49	89.14.49	89.14.49	90.00.00
11	32	8 9/16	8	8	7 11 7/16	90.00.00	89.30.32	89.30.32	89.30.32	90.00.00
12	32	8 9/16	8	8	7 11 7/16	90.00.00	89.30.32	89.30.32	89.30.32	90.00.00
13	32	8 9/16	8	8	7 11 7/16	90.00.00	89.30.32	89.30.32	89.30.32	90.00.00
14	32	8 5/16	8	8	7 11 11/16	90.00.00	90.11.24	90.11.25	90.11.27	90.00.00
15	32	8 3/16	8	8	7 11 13/16	90.00.00	89.57.36	89.57.36	89.57.39	90.00.00
16	32	8 1/16	8	8	7 11 15/16	90.00.00	89.57.36	89.57.38	89.57.39	90.00.00
17	32	8	8	8	8	90.00.00	90.00.00	90.00.00	90.00.00	90.00.00
18	32	8	8	8	8	90.00.00	90.00.00	90.00.00	90.00.00	90.00.00
19	32	8	8	8	8	90.00.00	90.00.00	90.00.00	90.00.00	90.00.00
20	32	8	8	8	8	90.00.00	90.00.00	90.00.00	90.00.00	90.00.00
21	32	8	8	8	8	90.00.00	90.00.00	90.00.00	90.00.00	90.00.00
22	32	8	8	8	8	90.00.00	90.00.00	90.00.00	90.00.00	90.00.00
23	32	8	8	8	8	90.00.00	90.00.00	90.00.00	90.00.00	90.00.00
24	32	8	8	8	8	90.00.00	90.00.00	90.00.00	90.00.00	90.00.00
25	32	8	8	8	8	90.00.00	90.00.00	90.00.00	90.00.00	90.00.00
26	32	8	8	8	8	90.00.00	90.00.00	90.00.00	90.00.00	90.00.00
27	32	8	8	8	8	90.00.00	90.00.00	90.00.00	90.00.00	90.00.00
28	32	8	8	8	8	90.00.00	90.00.00	90.00.00	90.00.00	90.00.00
29	32	8	8	8	8	90.00.00	90.00.00	90.00.00	90.00.00	90.00.00



PLAN-END FL. BM. 29

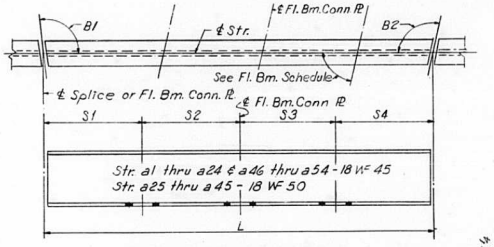


ELEVATION

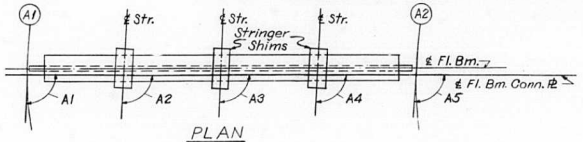


PLAN-END FL. BM. 1

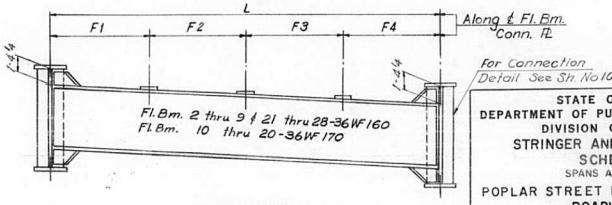
END FLOOR BEAM 1 AND 29



TYPICAL STRINGER



PLAN



ELEVATION

INTERIOR FLOOR BEAM 2 THRU 28

Notes:
Length L of Stringers and Fl. Bms. is correct as given in the table except the increment lengths are given to the nearest 1/16".
All dimensions are in the horizontal plane.
For Connection Plate Details see Sheet No. 106

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
STRINGER AND FLOOR BEAM
SCHEDULE
SPANS A29 THRU A34
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82–3HVB–3

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

SHEET 57 of 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	125
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

FLOOR BEAM 2 & 3	T1	T2	T3	T4
STR. 1 THRU 8	1	1 5/8	3/8	1

FLOOR BEAM 4 THRU 6	T1	T2	T3	T4
STR. 10 THRU 15	1	1 5/8	3/8	1

FLOOR BEAM 7 AND 8	T1	T2	T3	T4
STR. 16 THRU 21	1	1 5/8	3/8	1

FLOOR BEAM 9 THRU 11	T1	T2	T3	T4
STR. 22 THRU 27	1 1/16	1 5/8	3/8	15/16

FLOOR BEAM 12	T1	T2	T3	T4
STR.				
28	1 1/8	1 5/8	3/8	7/8
29	1 1/16	1 5/8	3/8	15/16
30	1 1/16	1 9/16	7/16	15/16

FLOOR BEAM 13	T1	T2	T3	T4
STR.				
31	1 1/8	1 5/8	3/8	7/8
32	1 1/8	1 9/16	7/16	7/8
33	1 1/16	1 9/16	7/16	15/16

FLOOR BEAM 14	T1	T2	T3	T4
STR.				
37	1 3/16	1 9/16	7/16	13/16
38	1 1/8	1 9/16	7/16	7/8
39	1 1/8	1 1/2	1/2	7/8

FLOOR BEAM 15	T1	T2	T3	T4
STR.				
37	1 3/16	1 9/16	7/16	13/16
38	1 3/16	1 1/2	1/2	13/16
39	1 1/8	1 1/2	1/2	7/8

FLOOR BEAM 16	T1	T2	T3	T4
STR.				
37	1 1/4	1 1/2	1/2	3/4
38	1 3/16	1 1/2	1/2	13/16
39	1 3/16	1 7/16	9/16	13/16

FLOOR BEAM 17	T1	T2	T3	T4
STR.				
40	1 1/4	1 1/2	1/2	3/4
41	1 1/4	1 7/16	9/16	3/4
42	1 3/16	1 3/8	5/8	13/16

FLOOR BEAM 18	T1	T2	T3	T4
STR.				
40	1 5/16	1 7/16	9/16	11/16
41	1 1/4	1 7/16	9/16	3/4
42	1 1/4	1 3/8	5/8	3/4

FLOOR BEAM 19	T1	T2	T3	T4
STR.				
43	1 1/4	1 3/8	5/8	3/4
44	1 1/4	1 5/16	11/16	3/4
45	1 1/4	1 5/16	11/16	3/4

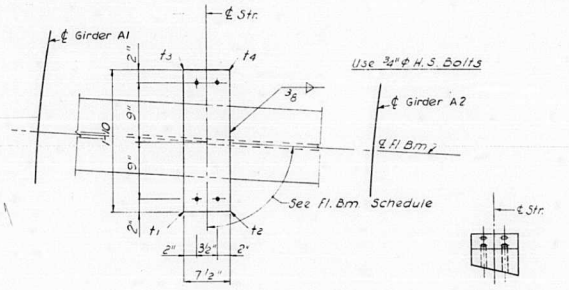
FLOOR BEAM 20	T1	T2	T3	T4
STR.				
43	1 5/16	1 5/16	11/16	11/16
44	1 1/4	1 5/16	11/16	3/4
45	1 1/4	1 5/16	11/16	3/4

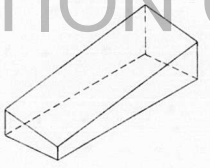
FLOOR BEAM 21	T1	T2	T3	T4
STR.				
43	1 5/16	1 5/16	11/16	11/16
44	1 5/16	1 5/16	11/16	11/16
45	1 1/4	1 1/4	3/4	3/4

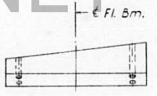
FLOOR BEAM 22 AND 23	T1	T2	T3	T4
STR. 46 THRU 48	1 5/16	1 5/16	11/16	11/16

FLOOR BEAM 24 THRU 26	T1	T2	T3	T4
STR. 49 THRU 51	1 1/4	1 1/4	3/4	3/4

FLOOR BEAM 27 & 28	T1	T2	T3	T4
STR. 52 THRU 54	1 1/4	1 1/4	3/4	3/4




ISOMETRIC VIEW



SHIM DETAIL

Shim thickness t1, t2, t3 & t4 shown in the Table are orientated with the Plan View shown above.

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

STRINGER SHIMS

SPANS A29 THRU 34

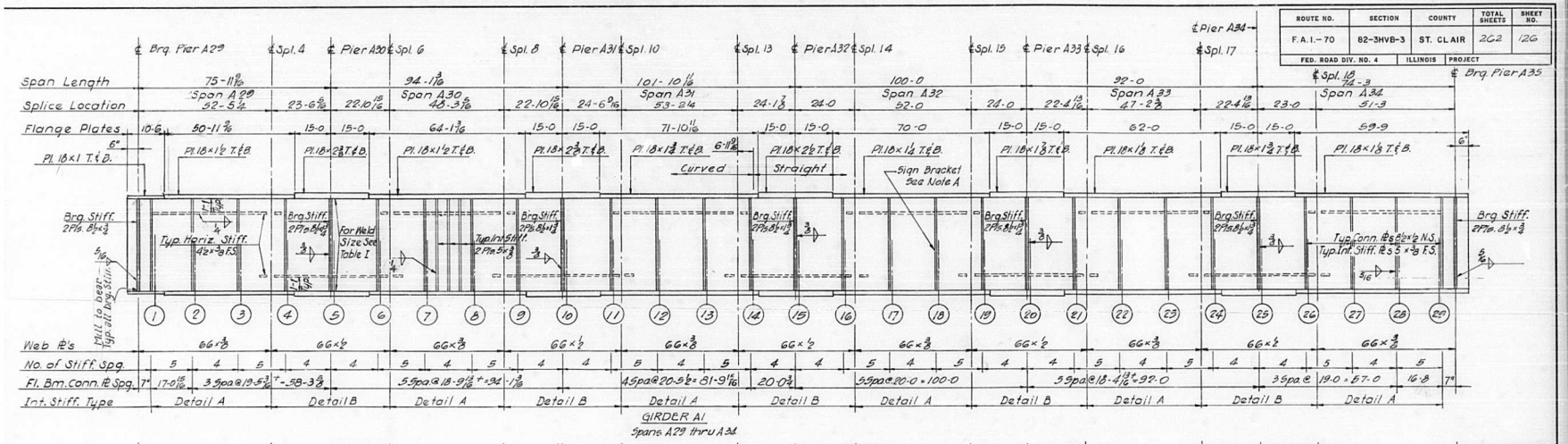
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

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

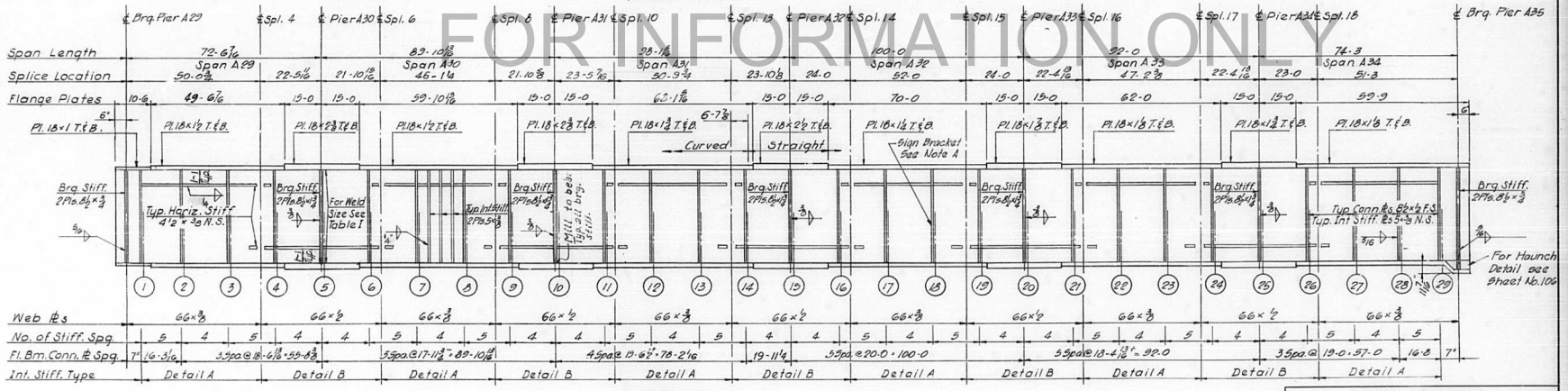
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET
58 OF 103

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	126
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



GIRDER A1
Spans A29 thru A34



GIRDER A2
Spans A29 thru A34

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

NOTES:
All longitudinal dimensions shown are given along ℄ of web see Sheet No. 56.
All Bearing Stiffeners and Connection Plates to be vertical.
For Splice, Stiffener, Connection Plate Details and Table I see Sheet No. 106 & 107

DESIGNED BY S.K.
DRAWN BY S.K.
CHECKED BY A.T.
APPROVED BY K.A.

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

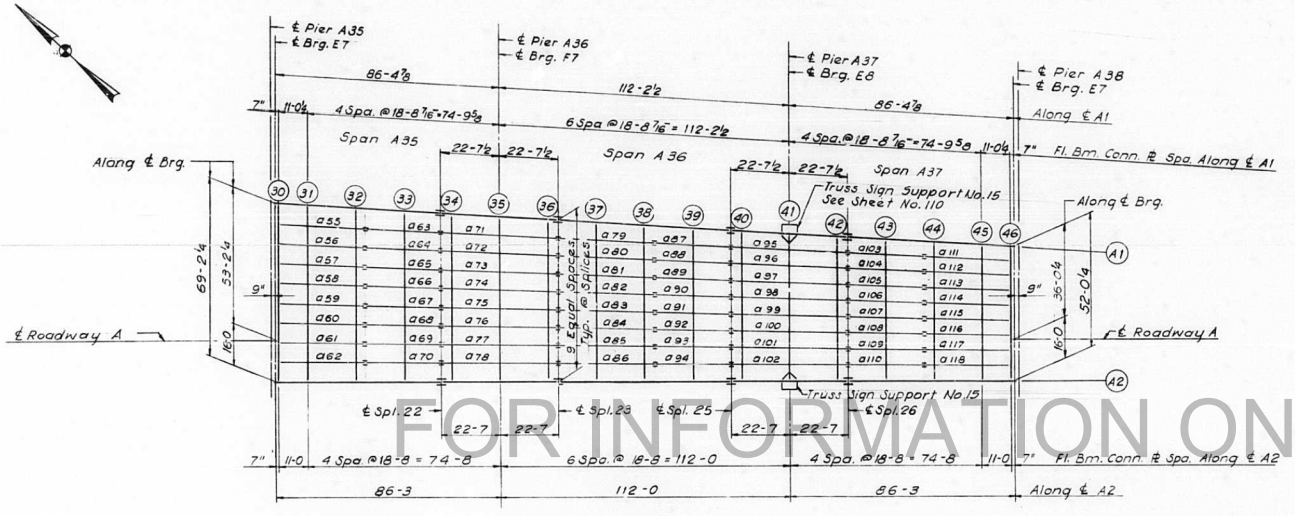
GIRDERS A1 AND A2
SPANS A29 THRU A34
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

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

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

SHEET 59 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	127
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

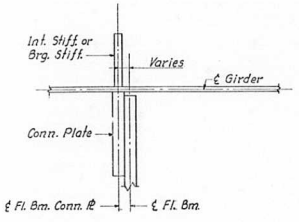


PLAN

SPANS A35 THRU A37

ELEVATION TOP OF GIRDER WEB

	GIR. A1	GIR. A2	DIFF.
CL. BRG.	450.933	452.169	1.236
FLOOR BEAM 30	450.924	452.156	1.232
FLOOR BEAM 31	450.756	451.897	1.141
FLOOR BEAM 32	450.470	451.459	.989
FLOOR BEAM 33	450.184	451.021	.837
SPLICE 22	449.958	450.674	.716
FLOOR BEAM 34	449.873	450.582	.709
FLOOR BEAM 35	449.467	450.144	.677
FLOOR BEAM 36	449.061	449.705	.644
SPLICE 23	448.976	449.613	.637
FLOOR BEAM 37	448.646	449.267	.619
FLOOR BEAM 38	448.233	448.828	.595
FLOOR BEAM 39	447.818	448.390	.572
SPLICE 25	447.490	448.043	.553
FLOOR BEAM 40	447.403	447.951	.548
FLOOR BEAM 41	446.988	447.513	.525
FLOOR BEAM 42	446.573	447.074	.501
SPLICE 26	446.486	446.982	.496
FLOOR BEAM 43	446.158	446.636	.478
FLOOR BEAM 44	445.743	446.198	.455
FLOOR BEAM 45	445.328	445.759	.431
FLOOR BEAM 46	445.083	445.501	.418
CL. BRG.	445.070	445.487	.417



FLOOR BEAM LOCATION SKETCH

BILL OF MATERIAL		
*Structural Steel	Lbs.	669,730

* Weight of Bearing Assemblies with Lead Plates and Anchor Bolts are Included as Structural Steel Est. Wt. 16,600 Lbs.

DESIGNED BY A.T.
DRAWN BY E.M.
CHECKED BY S.A.B.
APPROVED BY K.A.

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

FRAMING PLAN
SPANS A35 THRU A37
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

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

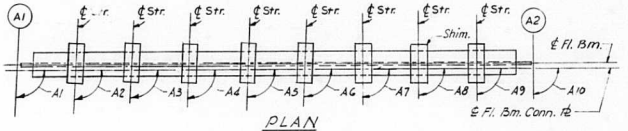
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 60 OF 163

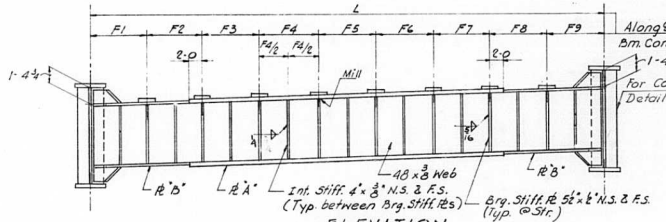
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.–70	82-3HVB-3	ST. CLAIR	262	128
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

FLOOR BEAM DIMENSIONS

FL BM	L	F1	F2	F3	F4	F5	F6	F7	F8	F9	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	PLATE A TOP & BOTT.	PLATE B TOP & BOTT.
30	69'-1 13/16"	7'-8 3/16"	7'-8 3/16"	7'-8 3/16"	7'-8 3/16"	7'-8 3/16"	7'-8 3/16"	7'-8 3/16"	7'-8 3/16"	7'-8 3/16"	93.27.09'	93.04.11'	92.41.12'	92.18.12'	91.55.11'	91.32.09'	91.09.07'	90.46.05'	90.23.03'	90.00.00'	12×2¼	12×1
31	68 5 7/8	7 7 5/16	7 7 5/16	7 7 5/16	7 7 5/16	7 7 5/16	7 7 5/16	7 7 5/16	7 7 5/16	7 7 5/16	93.27.09	93.04.11	92.41.12	92.18.12	91.55.11	91.32.09	91.09.07	90.46.05	90.23.03	90.00.00	12×2⅜	12×1½
32	67 4 5/16	7 5 13/16	7 5 13/16	7 5 13/16	7 5 13/16	7 5 13/16	7 5 13/16	7 5 13/16	7 5 13/16	7 5 13/16	93.27.09	93.04.11	92.41.12	92.18.12	91.55.11	91.32.09	91.09.07	90.46.05	90.23.03	90.00.00	12×2⅞	12×1⅝
33	66 2 13/16	7 4 5/16	7 4 5/16	7 4 5/16	7 4 5/16	7 4 5/16	7 4 5/16	7 4 5/16	7 4 5/16	7 4 5/16	93.27.09	93.04.11	92.41.12	92.18.12	91.55.11	91.32.09	91.09.07	90.46.05	90.23.03	90.00.00	12×2⅜	12×1¾
34	65 1 5/16	7 2 13/16	7 2 13/16	7 2 13/16	7 2 13/16	7 2 13/16	7 2 13/16	7 2 13/16	7 2 13/16	7 2 13/16	93.27.09	93.04.11	92.41.12	92.18.12	91.55.11	91.32.09	91.09.07	90.46.05	90.23.03	90.00.00	12×2¾	12×1½
35	63 11 13/16	7 1 5/16	7 1 5/16	7 1 5/16	7 1 5/16	7 1 5/16	7 1 5/16	7 1 5/16	7 1 5/16	7 1 5/16	93.27.09	93.04.11	92.41.12	92.18.12	91.55.11	91.32.09	91.09.07	90.46.05	90.23.03	90.00.00	12×2⅞	12×1⅞
36	62 10 1/4	6 11 13/16	6 11 13/16	6 11 13/16	6 11 13/16	6 11 13/16	6 11 13/16	6 11 13/16	6 11 13/16	6 11 13/16	93.27.09	93.04.11	92.41.12	92.18.12	91.55.11	91.32.09	91.09.07	90.46.05	90.23.03	90.00.00	12×2⅝	12×1⅞
37	61 8 3/4	6 10 5/16	6 10 5/16	6 10 5/16	6 10 5/16	6 10 5/16	6 10 5/16	6 10 5/16	6 10 5/16	6 10 5/16	93.27.09	93.04.11	92.41.12	92.18.12	91.55.11	91.32.09	91.09.07	90.46.05	90.23.03	90.00.00	12×2⅝	12×1⅞
38	60 7 1/4	6 8 13/16	6 8 13/16	6 8 13/16	6 8 13/16	6 8 13/16	6 8 13/16	6 8 13/16	6 8 13/16	6 8 13/16	93.27.09	93.04.11	92.41.12	92.18.12	91.55.11	91.32.09	91.09.07	90.46.05	90.23.03	90.00.00	12×2⅝	12×1⅝
39	59 5 3/4	6 7 5/16	6 7 5/16	6 7 5/16	6 7 5/16	6 7 5/16	6 7 5/16	6 7 5/16	6 7 5/16	6 7 5/16	93.27.09	93.04.11	92.41.12	92.18.12	91.55.11	91.32.09	91.09.07	90.46.05	90.23.03	90.00.00	12×2½	12×1¼
40	58 4 1/4	6 5 13/16	6 5 13/16	6 5 13/16	6 5 13/16	6 5 13/16	6 5 13/16	6 5 13/16	6 5 13/16	6 5 13/16	93.27.09	93.04.11	92.41.12	92.18.12	91.55.11	91.32.09	91.09.07	90.46.05	90.23.03	90.00.00	12×2½	12×1¼
41	57 2 11/16	6 4 5/16	6 4 5/16	6 4 5/16	6 4 5/16	6 4 5/16	6 4 5/16	6 4 5/16	6 4 5/16	6 4 5/16	93.27.09	93.04.11	92.41.12	92.18.12	91.55.11	91.32.09	91.09.07	90.46.05	90.23.03	90.00.00	12×2½	12×1¼
42	56 1 3/16	6 2 13/16	6 2 13/16	6 2 13/16	6 2 13/16	6 2 13/16	6 2 13/16	6 2 13/16	6 2 13/16	6 2 13/16	93.27.09	93.04.11	92.41.12	92.18.12	91.55.11	91.32.09	91.09.07	90.46.05	90.23.03	90.00.00	12×2⅜	12×1⅛
43	54 11 11/16	6 1 5/16	6 1 5/16	6 1 5/16	6 1 5/16	6 1 5/16	6 1 5/16	6 1 5/16	6 1 5/16	6 1 5/16	93.27.09	93.04.11	92.41.12	92.18.12	91.55.11	91.32.09	91.09.07	90.46.05	90.23.03	90.00.00	12×2⅜	12×1⅛
44	53 10 3/16	5 11 13/16	5 11 13/16	5 11 13/16	5 11 13/16	5 11 13/16	5 11 13/16	5 11 13/16	5 11 13/16	5 11 13/16	93.27.09	93.04.11	92.41.12	92.18.12	91.55.11	91.32.09	91.09.07	90.46.05	90.23.03	90.00.00	12×2⅜	12×1⅛
45	52 8 5/8	5 10 5/16	5 10 5/16	5 10 5/16	5 10 5/16	5 10 5/16	5 10 5/16	5 10 5/16	5 10 5/16	5 10 5/16	93.27.09	93.04.11	92.41.12	92.18.12	91.55.11	91.32.09	91.09.07	90.46.05	90.23.03	90.00.00	12×2¼	12×1
46	52 11/16	5 9 7/16	5 9 7/16	5 9 7/16	5 9 7/16	5 9 7/16	5 9 7/16	5 9 7/16	5 9 7/16	5 9 7/16	93.27.09	93.04.11	92.41.12	92.18.12	91.55.11	91.32.09	91.09.07	90.46.05	90.23.03	90.00.00	12×2	12×⅝

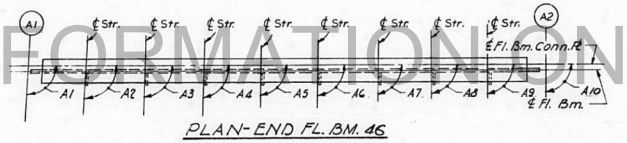


PLAN

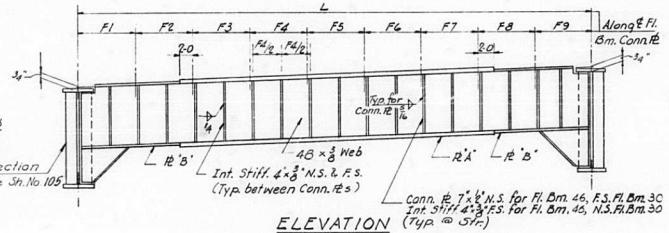


ELEVATION

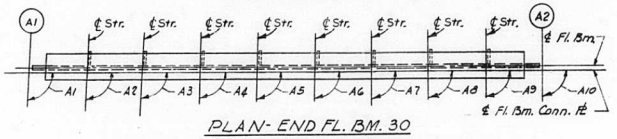
INTERIOR FLOOR BEAM 31 THRU 45



PLAN-END FL. BM. 46



ELEVATION



PLAN-END FL. BM. 30

END FLOOR BEAM 30 AND 46

NOTES: Length "L" of Floor Beams is correct as given in the table, except the increment lengths are given to the nearest ½".
All dimensions are in the horizontal plane.
For Intermediate Stiffener, Brg. Stiffener and Connection Plate Details see Sh. No. 106

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

FLOOR BEAM SCHEDULE

SPANS A35 THRU A37
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

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

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

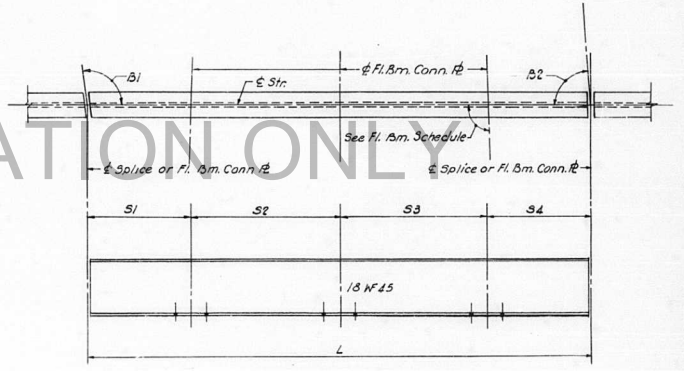
SHEET 61 of 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	129
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

STRINGER DIMENSIONS

STR	L	S1	S2	S3	S4	B1	B2
55	33'-7 9/16"	11' - 3/16"	○	18'-8 5/16"	3'-11 1/16"	93.04.11'	86.55.49'
56	33 7 7/16	11 1/8	↕	18 8 1/4	3 11 1/16	92.41.12	87.18.48
57	33 7 5/16	11 1/8	↕	18 8 3/16	3 11 1/16	92.18.12	87.41.48
58	33 7 1/4	11 1/16	↕	18 8 1/8	3 11	91.55.11	88.04.49
59	33 7 1/8	11 1/16	↕	18 8 1/16	3 11	91.32.09	88.27.51
60	33 7 1/16	11	↕	18 8 1/16	3 11	91.09.07	88.50.53
61	33 7 1/16	11	↕	18 8	3 11	90.46.05	89.13.55
62	33 7	11	↕	18 8	3 11	90.23.03	89.36.57
63	29 6 1/2	14 9 1/4	↕	○	14 9 1/4	93.04.11	86.55.49
64	29 6 3/8	14 9 3/16	↕	↕	14 9 3/16	92.41.12	87.18.48
65	29 6 5/16	14 9 1/8	↕	↕	14 9 1/8	92.18.12	87.41.48
66	29 6 3/16	14 9 1/8	↕	↕	14 9 1/8	91.55.11	88.04.49
67	29 6 1/8	14 9 1/16	↕	↕	14 9 1/16	91.32.09	88.27.51
68	29 6 1/16	14 9 1/16	↕	↕	14 9 1/16	91.09.07	88.50.53
69	29 6 1/16	14 9	↕	↕	14 9	90.46.05	89.13.55
70	29 6	14 9	○	○	14 9	90.23.03	89.36.57
71	45 2 3/4	3 11 1/16	18 8 5/16	18 8 5/16	3 11 1/16	93.04.11	86.55.49
72	45 2 5/8	3 11 1/16	18 8 1/4	18 8 1/4	3 11 1/16	92.41.12	87.18.48
73	45 2 7/16	3 11 1/16	18 8 3/16	18 8 3/16	3 11 1/16	92.18.12	87.41.48
74	45 2 5/16	3 11	18 8 1/8	18 8 1/8	3 11	91.55.11	88.04.49
75	45 2 3/16	3 11	18 8 1/16	18 8 1/16	3 11	91.32.09	88.27.51
76	45 2 1/8	3 11	18 8 1/16	18 8 1/16	3 11	91.09.07	88.50.53
77	45 2 1/16	3 11	18 8	18 8	3 11	90.46.05	89.13.55
78	45 2	3 11	18 8	18 8	3 11	90.23.03	89.36.57
79	37 4 5/8	14 9 1/4	18 8 5/16	○	3 11 1/16	93.04.11	86.55.49
80	37 4 1/2	14 9 3/16	18 8 1/4	↕	3 11 1/16	92.41.12	87.18.48
81	37 4 3/8	14 9 1/8	18 8 3/16	↕	3 11 1/16	92.18.12	87.41.48
82	37 4 1/4	14 9 1/8	18 8 1/8	↕	3 11	91.55.11	88.04.49
83	37 4 3/16	14 9 1/16	18 8 1/16	↕	3 11	91.32.09	88.27.51
84	37 4 1/16	14 9 1/16	18 8 1/16	↕	3 11	91.09.07	88.50.53
85	37 4 1/16	14 9	18 8	↕	3 11	90.46.05	89.13.55
86	37 4	14 9	18 8	○	3 11	90.23.03	89.36.57

STR	L	S1	S2	S3	S4	B1	B2
87	29'-6 1/2"	14'-9 1/4"	○	○	14'-9 1/4"	93.04.11'	86.55.49'
88	29 6 3/8	14 9 3/16	↕	↕	14 9 3/16	92.41.12	87.18.48
89	29 6 5/16	14 9 1/8	↕	↕	14 9 1/8	92.18.12	87.41.48
90	29 6 3/16	14 9 1/8	↕	↕	14 9 1/8	91.55.11	88.04.49
91	29 6 1/8	14 9 1/16	↕	↕	14 9 1/16	91.32.09	88.27.51
92	29 6 1/16	14 9 1/16	↕	↕	14 9 1/16	91.09.07	88.50.53
93	29 6 1/16	14 9	↕	↕	14 9	90.46.05	89.13.55
94	29 6	14 9	○	○	14 9	90.23.03	89.36.57
95	45 2 3/4	3 11 1/16	18 8 5/16	18 8 5/16	3 11 1/16	93.04.11	86.55.49
96	45 2 5/8	3 11 1/16	18 8 1/4	18 8 1/4	3 11 1/16	92.41.12	87.18.48
97	45 2 7/16	3 11 1/16	18 8 3/16	18 8 3/16	3 11 1/16	92.18.12	87.41.48
98	45 2 5/16	3 11	18 8 1/8	18 8 1/8	3 11	91.55.11	88.04.49
99	45 2 3/16	3 11	18 8 1/16	18 8 1/16	3 11	91.32.09	88.27.51
100	45 2 1/8	3 11	18 8 1/16	18 8 1/16	3 11	91.09.07	88.50.53
101	45 2 1/16	3 11	18 8	18 8	3 11	90.46.05	89.13.55
102	45 2	3 11	18 8	18 8	3 11	90.23.03	89.36.57
103	29 6 1/2	14 9 1/4	↕	○	14 9 1/4	93.04.11	86.55.49
104	29 6 3/8	14 9 3/16	↕	↕	14 9 3/16	92.41.12	87.18.48
105	29 6 5/16	14 9 1/8	↕	↕	14 9 1/8	92.18.12	87.41.48
106	29 6 3/16	14 9 1/8	↕	↕	14 9 1/8	91.55.11	88.04.49
107	29 6 1/8	14 9 1/16	↕	↕	14 9 1/16	91.32.09	88.27.51
108	29 6 1/16	14 9 1/16	↕	↕	14 9 1/16	91.09.07	88.50.53
109	29 6 1/16	14 9	↕	↕	14 9	90.46.05	89.13.55
110	29 6	14 9	○	○	14 9	90.23.03	89.36.57
111	33 7 9/16	3 11 1/16	18 8 5/16		11 3/16	93.04.11	86.55.49
112	33 7 7/16	3 11 1/16	18 8 1/4		11 1/8	92.41.12	87.18.48
113	33 7 5/16	3 11 1/16	18 8 3/16		11 1/8	92.18.12	87.41.48
114	33 7 1/4	3 11	18 8 1/8		11 1/16	91.55.11	88.04.49
115	33 7 1/8	3 11	18 8 1/16		11 1/16	91.32.09	88.27.51
116	33 7 1/16	3 11	18 8 1/16		11	91.09.07	88.50.53
117	33 7 1/16	3 11	18 8		11	90.46.05	89.13.55
118	33 7	3 11	18 8	○	11	90.23.03	89.36.57



TYPICAL STRINGER

Notes:
Length L of Stringer is correct as given in the Table, except the increment lengths are given to the nearest 1/16".
All dimensions are in the Horizontal Plane.

DESIGNED BY A.T.
DRAWN BY I.M.
CHECKED BY S.B.
APPROVED BY K.A.

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

STRINGER SCHEDULE
SPANS A35 THRU A37
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

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

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

SHEET 62 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. — 70	82-3HVB-3	ST. CLAIR	262	130
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

FLOOR BEAM 31	T1	T2	T3	T4
STR.				
55	15/16	13/16	9/16	7/16
56	15/16	13/16	9/16	7/16
57	15/16	13/16	9/16	7/16
58	15/16	13/16	9/16	7/16
59	15/16	13/16	9/16	7/16
60	1	7/8	1/2	3/8
61	1	7/8	1/2	3/8
62	1	7/8	1/2	3/8

FLOOR BEAM 32	T1	T2	T3	T4
STR.				
55	15/16	13/16	9/16	7/16
56	15/16	13/16	9/16	7/16
57	15/16	13/16	9/16	7/16
58	15/16	13/16	9/16	7/16
59	15/16	7/8	1/2	7/16
60	1	7/8	1/2	3/8
61	1	7/8	1/2	3/8
62	1	7/8	1/2	3/8

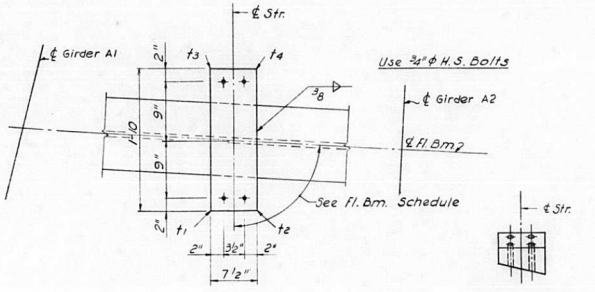
FLOOR BEAM 33	T1	T2	T3	T4
STR.				
63	15/16	13/16	9/16	7/16
64	15/16	13/16	9/16	7/16
65	15/16	13/16	9/16	7/16
66	15/16	7/8	1/2	7/16
67	15/16	7/8	1/2	7/16
68	15/16	7/8	1/2	7/16
69	1	7/8	1/2	3/8
70	1	7/8	1/2	3/8

FLOOR BEAM 34 THRU 36	T1	T2	T3	T4
STR. 71 THRU 78	1	7/8	1/2	3/8

FLOOR BEAM 37 THRU 39	T1	T2	T3	T4
STR. 79 THRU 94	1	7/8	1/2	3/8

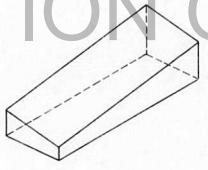
FLOOR BEAM 40 THRU 42	T1	T2	T3	T4
STR. 95 THRU 102	15/16	7/8	1/2	7/16

FLOOR BEAM 43 THRU 45	T1	T2	T3	T4
STR. 103 THRU 118	15/16	7/8	1/2	7/16

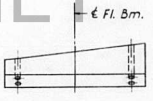


PLAN

END VIEW



ISOMETRIC VIEW



SIDE VIEW

SHIM DETAIL

Shim thickness t_1, t_2, t_3 & t_4 shown in the Table are orientated with the Plan View shown above.

DESIGNED BY A.T.
DRAWN BY I.M.
CHECKED BY S.B.
APPROVED BY K.A.

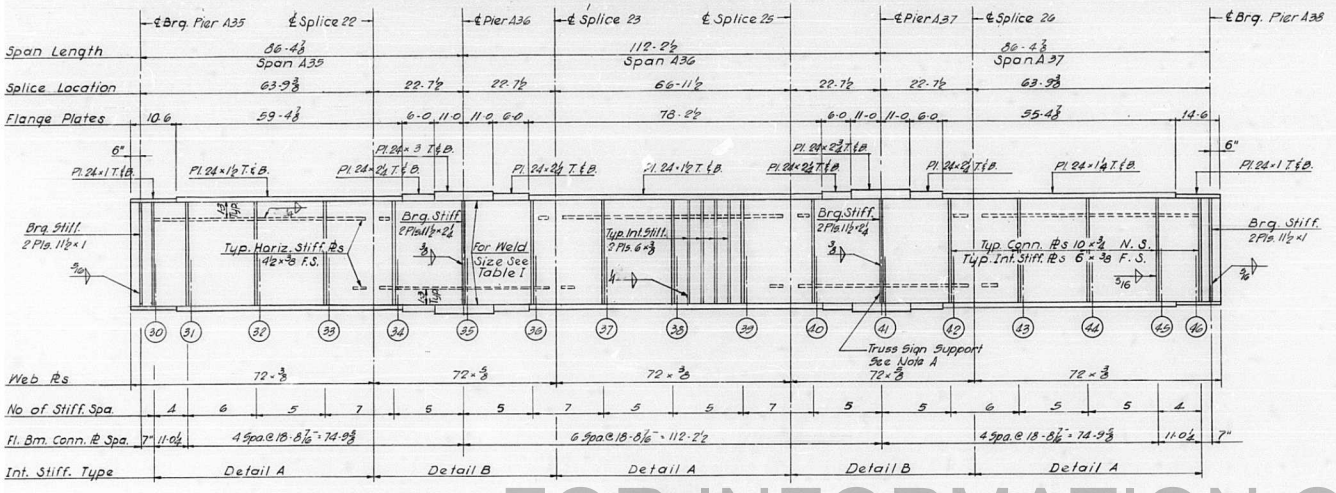
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS

STRINGER SHIMS
SPANS A35 THRU A37
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-3

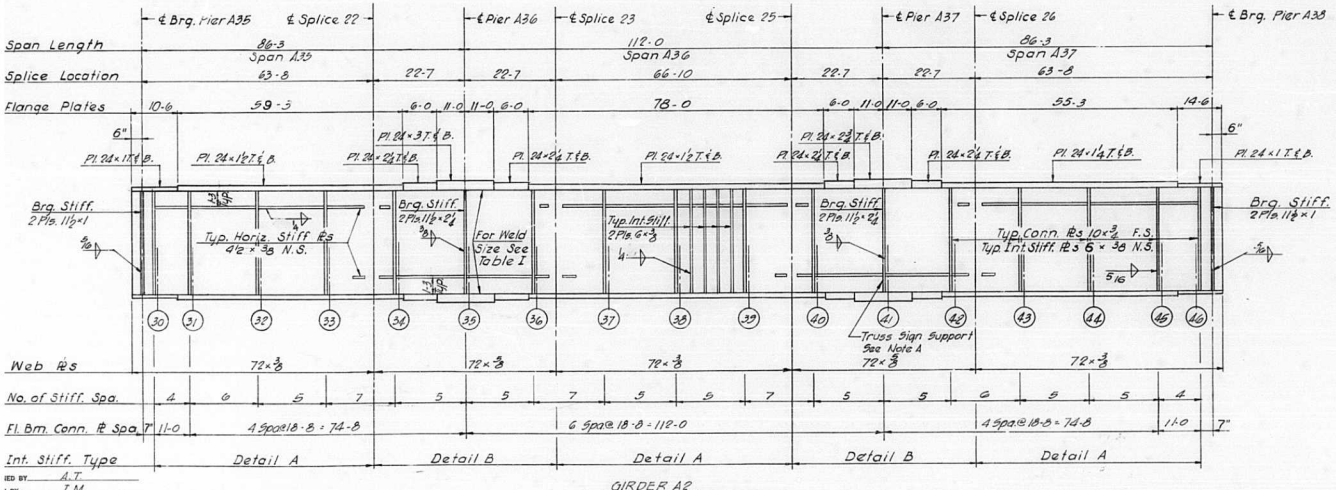
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 63 of 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVB-3	ST. CLAIR	262	131
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



GIRDER A1
Spans A35 thru A37



GIRDER A2
Spans A35 thru A37

NOTES:
All longitudinal dimensions shown are given along ℄ of Web see Sheet No. 60
All Bearing Stiffeners and Connection Plates to be vertical.
For Splice Stiffener, Connection Plate Details and Table I see Sheet No. 105, 106 & 107

NOTE A:
Intermediate Stiffener should be moved if necessary to clear Truss Sign Support connection plates.

DRAWN BY A.T.
TRACED BY I.M.
CHECKED BY S.B.
APPROVED BY K.A.

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

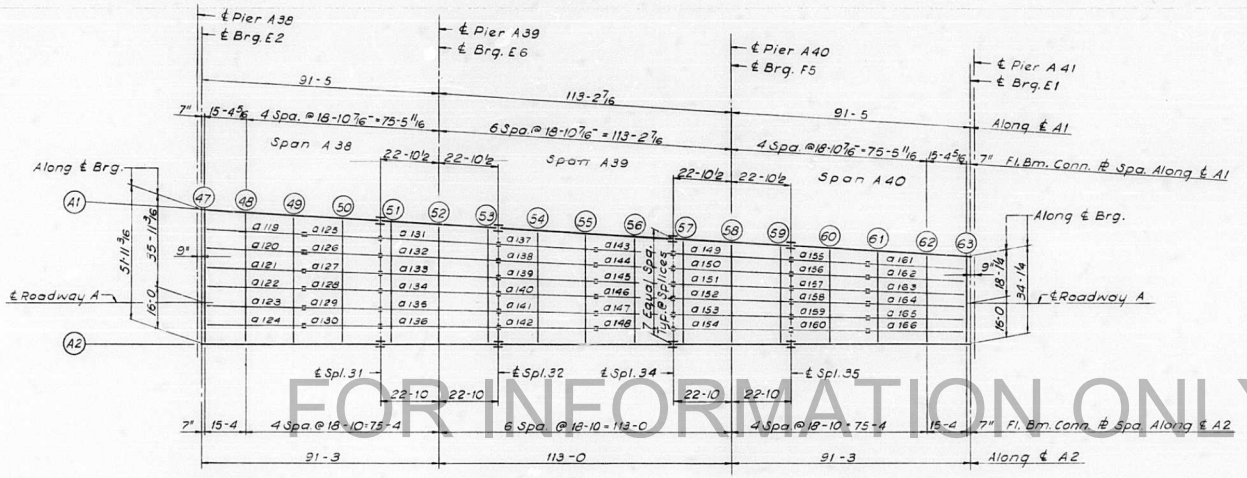
GIRDERS A1 AND A2
SPANS A35 THRU A37
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

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

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

SHEET 64 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. — 70	82–3HVB–3	ST. CLAIR	262	132
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



PLAN

SPANS A38 THRU A40

ELEVATION TOP OF GIRDER WEB

		GIR. A1	GIR. A2	DIFF.
CL. BRG.		445.037	445.451	.414
FLOOR BEAM	47	445.024	445.438	.414
FLOOR BEAM	48	444.683	445.077	.393
FLOOR BEAM	49	444.265	444.635	.370
FLOOR BEAM	50	443.846	444.193	.347
SPLICE	31	443.516	443.844	.328
FLOOR BEAM	51	443.427	443.750	.323
FLOOR BEAM	52	443.008	443.308	.300
FLOOR BEAM	53	442.589	442.866	.277
SPLICE	32	442.500	442.772	.272
FLOOR BEAM	54	442.171	442.424	.253
FLOOR BEAM	55	441.752	441.981	.229
FLOOR BEAM	56	441.333	441.539	.206
SPLICE	34	441.003	441.190	.187
FLOOR BEAM	57	440.914	441.096	.182
FLOOR BEAM	58	440.496	440.654	.157
FLOOR BEAM	59	440.077	440.211	.134
SPLICE	35	439.988	440.117	.129
FLOOR BEAM	60	439.658	439.769	.111
FLOOR BEAM	61	439.239	439.327	.087
FLOOR BEAM	62	438.820	438.884	.064
FLOOR BEAM	63	438.479	438.524	.045
CL. BRG.		438.466	438.510	.043

Note

Dimensions locating Floor Beams are given to the Floor Beam Conn. Plate see Sketch Sheet No. 60

BILL OF MATERIAL		
*Structural Steel	Lbs.	469,950

*Weight of Bearing Assemblies with Lead Plates and Anchor Bolts are Included as Structural Steel Est. Wt. 10,160 Lbs.

DESIGNED BY A.T
DRAWN BY I.M.
CHECKED BY S.A.B
APPROVED BY K.A

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

FRAMING PLAN
SPANS A38 THRU A40
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-3

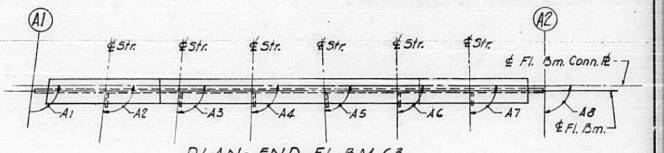
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 65 OF 163

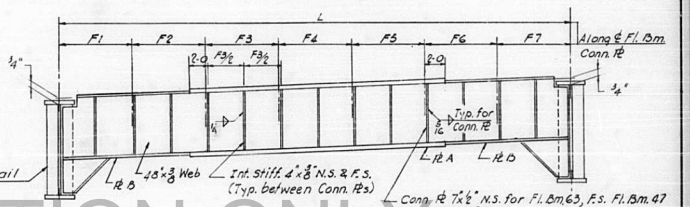
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.–70	82-3HVB-3	ST. CLAIR	262	133
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

FLOOR BEAM DIMENSIONS

FL. BM	L	F1	F2	F3	F4	F5	F6	F7	A1	A2	A3	A4	A5	A6	A7	A8	Plate A Top & Btm.	Plate B Top & Btm.
47	51'-10 3/4"	7'-4 15/16"	7'-4 15/16"	7'-4 15/16"	7'-4 15/16"	7'-4 15/16"	7'-4 15/16"	7'-4 15/16"	93.27.09	92.57.37	92.28.03	91.58.28	91.28.52	90.59.15	90.29.38	90.00.00	12 × 1¼	12 × ⅜
48	50 11 5/8	7 3 3/8	7 3 3/8	7 3 3/8	7 3 3/8	7 3 3/8	7 3 3/8	7 3 3/8	93 27.09	92.57.37	92.28.03	91.58.28	91.28.52	90.59.15	90.29.38	90.00.00	12 × 1⅜	12 × ½
49	49 10	7 1 7/16	7 1 7/16	7 1 7/16	7 1 7/16	7 1 7/16	7 1 7/16	7 1 7/16	93.27.09	92.57.37	92.28.03	91.58.28	91.28.52	90.59.15	90.29.38	90.00.00	12 × 1⅜	12 × ½
50	48 8 3/8	6 11 1/2	6 11 1/2	6 11 1/2	6 11 1/2	6 11 1/2	6 11 1/2	6 11 1/2	93.27.09	92.57.37	92.28.03	91.58.28	91.28.52	90.59.15	90.29.38	90.00.00	12 × 1⅜	12 × ½
51	47 6 3/4	6 9 9/16	6 9 9/16	6 9 9/16	6 9 9/16	6 9 9/16	6 9 9/16	6 9 9/16	93.27.09	92.57.37	92.28.03	91.58.28	91.28.52	90.59.15	90.29.38	90.00.00	12 × 1½	12 × 1
52	46 5 1/8	6 7 9/16	6 7 9/16	6 7 9/16	6 7 9/16	6 7 9/16	6 7 9/16	6 7 9/16	93.27.09	92.57.37	92.28.03	91.58.28	91.28.52	90.59.15	90.29.38	90.00.00	12 × 1½	12 × 1
53	45 3 1/2	6 5 5/8	6 5 5/8	6 5 5/8	6 5 5/8	6 5 5/8	6 5 5/8	6 5 5/8	93.27.09	92.57.37	92.28.03	91.58.28	91.28.52	90.59.15	90.29.38	90.00.00	12 × 1½	12 × 1
54	44 1 7/8	6 3 11/16	6 3 11/16	6 3 11/16	6 3 11/16	6 3 11/16	6 3 11/16	6 3 11/16	93.27.09	92.57.37	92.28.03	91.58.28	91.28.52	90.59.15	90.29.38	90.00.00	12 × 1⅜	12 × ⅝
55	43 3/16	6 1 3/4	6 1 3/4	6 1 3/4	6 1 3/4	6 1 3/4	6 1 3/4	6 1 3/4	93.27.09	92.57.37	92.28.03	91.58.28	91.28.52	90.59.15	90.29.38	90.00.00	12 × 1¼	12 × ⅝
56	41 10 9/16	5 11 13/16	5 11 13/16	5 11 13/16	5 11 13/16	5 11 13/16	5 11 13/16	5 11 13/16	93.27.09	92.57.37	92.28.03	91.58.28	91.28.52	90.59.15	90.29.38	90.00.00	12 × 1¼	12 × ⅝
57	40 8 15/16	5 9 7/8	5 9 7/8	5 9 7/8	5 9 7/8	5 9 7/8	5 9 7/8	5 9 7/8	93.27.09	92.57.37	92.28.03	91.58.28	91.28.52	90.59.15	90.29.38	90.00.00	12 × 1¼	12 × ⅝
58	39 7 5/16	5 7 7/8	5 7 7/8	5 7 7/8	5 7 7/8	5 7 7/8	5 7 7/8	5 7 7/8	93.27.09	92.57.37	92.28.03	91.58.28	91.28.52	90.59.15	90.29.38	90.00.00	12 × 1⅛	12 × ⅝
59	38 5 11/16	5 5 15/16	5 5 15/16	5 5 15/16	5 5 15/16	5 5 15/16	5 5 15/16	5 5 15/16	93.27.09	92.57.37	92.28.03	91.58.28	91.28.52	90.59.15	90.29.38	90.00.00	12 × 1⅛	12 × ⅝
60	37 4 1/16	5 4	5 4	5 4	5 4	5 4	5 4	5 4	93.27.09	92.57.37	92.28.03	91.58.28	91.28.52	90.59.15	90.29.38	90.00.00	12 × 1⅛	12 × ⅝
61	36 2 3/8	5 2 1/16	5 2 1/16	5 2 1/16	5 2 1/16	5 2 1/16	5 2 1/16	5 2 1/16	93.27.09	92.57.37	92.28.03	91.58.28	91.28.52	90.59.15	90.29.38	90.00.00	12 × 1⅛	12 × ⅝
62	35 3/4	5 1/8	5 1/8	5 1/8	5 1/8	5 1/8	5 1/8	5 1/8	93.27.09	92.57.37	92.28.03	91.58.28	91.28.52	90.59.15	90.29.38	90.00.00	12 × 1⅛	12 × ⅝
63	34 1 11/16	4 10 1/2	4 10 1/2	4 10 1/2	4 10 1/2	4 10 1/2	4 10 1/2	4 10 1/2	93.27.09	92.57.37	92.28.03	91.58.28	91.28.52	90.59.15	90.29.38	90.00.00	12 × 1⅛	12 × ⅝

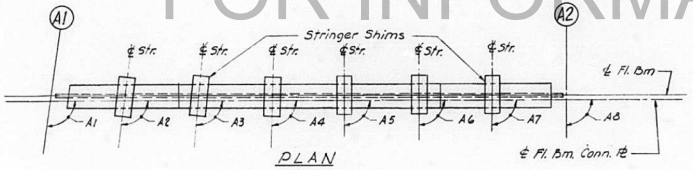


PLAN- END FL. BM. 63

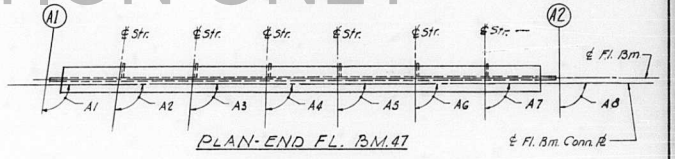


For Connection Detail
See Sh. No. 105

ELEVATION

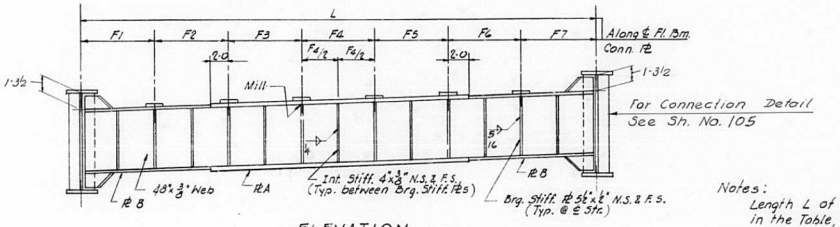


PLAN



PLAN- END FL. BM. 47

END FLOOR BEAM 47 AND 63



ELEVATION

INTERIOR FLOOR BEAM 48 THRU 62

Notes:
Length L of Floor Beam is Correct as given in the Table, except the increment lengths are given to the nearest ⅛".
All dimensions are in the horizontal plane.
For Intermediate Stiffener, Bearing Stiffener and Connection Plate Details see Sheet No. 106 & 107

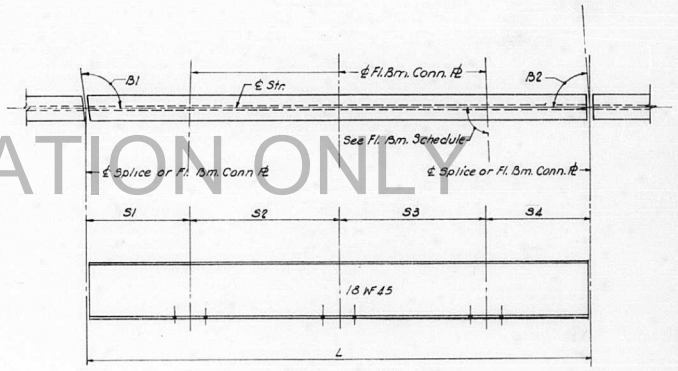
DESIGNED BY A.T.
DRAWN BY I.M.
CHECKED BY S.B.
APPROVED BY K.A.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
FLOOR BEAM SCHEDULE
SPANS A38 THRU A40
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-3
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS
SHEET 66 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVB-3	ST. CLAIR	202	134
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

STRINGER DIMENSIONS

STR	L	S1	S2	S3	S4	B1	B2
119	38'- 2 5/8"	15'-4 1/4"	○	18'-10 5/16"	4'- 1/16"	92.57.37	87.02.23
120	38 2 7/16	15 4 3/16	↑	18 10 3/16	4 1/16	92.28.03	87.31.57
121	38 2 1/4	15 4 1/8	↑	18 10 1/8	4	91.58.28	88.01.32
122	38 2 1/8	15 4 1/16	↑	18 10 1/16	4	91.28.52	88.31.08
123	38 2 1/16	15 4	↑	18 10 1/16	4	90.59.15	89.00.45
124	38 2	15 4	↑	18 10	4	90.29.38	89.30.22
125	29 8 1/2	14 10 1/4	↑	○	14 10 1/4	92.57.37	87.02.23
126	29 8 5/16	14 10 3/16	↑	↑	14 10 3/16	92.28.03	87.31.57
127	29 8 3/16	14 10 1/8	↑	↑	14 10 1/8	91.58.28	88.01.32
128	29 8 1/8	14 10 1/16	↑	↑	14 10 1/16	91.28.52	88.31.08
129	29 8 1/16	14 10	↑	↑	14 10	90.59.15	89.00.45
130	29 8	14 10	○	○	14 10	90.29.38	89.30.22
131	45 8 3/4	4 1/16	18 10 5/16	18 10 5/16	4 1/16	92.57.37	87.02.23
132	45 8 1/2	4 1/16	18 10 3/16	18 10 3/16	4 1/16	92.28.03	87.31.57
133	45 8 5/16	4	18 10 1/8	18 10 1/8	4	91.58.28	88.01.32
134	45 8 3/16	4	18 10 1/16	18 10 1/16	4	91.28.52	88.31.08
135	45 8 1/16	4	18 10 1/16	18 10 1/16	4	90.59.15	89.00.45
136	45 8	4	18 10	18 10	4	90.29.38	89.30.22
137	37 8 5/8	14 10 1/4	18 10 5/16	○	4 1/16	92.57.37	87.02.23
138	37 8 7/16	14 10 3/16	18 10 3/16	↑	4 1/16	92.28.03	87.31.57
139	37 8 1/4	14 10 1/8	18 10 1/8	↑	4	91.58.28	88.01.32
140	37 8 1/8	14 10 1/16	18 10 1/16	↑	4	91.28.52	88.31.08
141	37 8 1/16	14 10	18 10 1/16	↑	4	90.59.15	89.00.45
142	37 8	14 10	18 10	↑	4	90.29.38	89.30.22
143	29 8 1/2	14 10 1/4	○	↑	14 10 1/4	92.57.37	87.02.23
144	29 8 5/16	14 10 3/16	↑	↑	14 10 3/16	92.28.03	87.31.57
145	29 8 3/16	14 10 1/8	↑	↑	14 10 1/8	91.58.28	88.01.32
146	29 8 1/8	14 10 1/16	↑	↑	14 10 1/16	91.28.52	88.31.08
147	29 8 1/16	14 10	↑	↑	14 10	90.59.15	89.00.45
148	29 8	14 10	○	○	14 10	90.29.38	89.30.22
149	45 8 3/4	4 1/16	18 10 5/16	18 10 5/16	4 1/16	92.57.37	87.02.23
150	45 8 1/2	4 1/16	18 10 3/16	18 10 3/16	4 1/16	92.28.03	87.31.57
151	45 8 5/16	4	18 10 1/8	18 10 1/8	4	91.58.28	88.01.32
152	45 8 3/16	4	18 10 1/16	18 10 1/16	4	91.28.52	88.31.08
153	45 8 1/16	4	18 10 1/16	18 10 1/16	4	90.59.15	89.00.45
154	45 8	4	18 10	18 10	4	90.29.38	89.30.22
155	29 8 1/2	14 10 1/4	○	○	14 10 1/4	92.57.37	87.02.23
156	29 8 5/16	14 10 3/16	↑	↑	14 10 3/16	92.28.03	87.31.57
157	29 8 3/16	14 10 1/8	↑	↑	14 10 1/8	91.58.28	88.01.32
158	29 8 1/8	14 10 1/16	↑	↑	14 10 1/16	91.28.52	88.31.08
159	29 8 1/16	14 10	↑	↑	14 10	90.59.15	89.00.45
160	29 8	14 10	○	↑	14 10	90.29.38	89.30.22
161	38 2 5/8	4 1/16	18 10 5/16	↑	15 4 1/4	92.57.37	87.02.23
162	38 2 7/16	4 1/16	18 10 3/16	↑	15 4 3/16	92.28.03	87.31.57
163	38 2 1/4	4	18 10 1/8	↑	15 4 1/8	91.58.28	88.01.32
164	38 2 1/8	4	18 10 1/16	↑	15 4 1/16	91.28.52	88.31.08
165	38 2 1/16	4	18 10 1/16	↑	15 4	90.59.15	89.00.45
166	38 2	4	18 10	○	15 4	90.29.38	89.30.22



TYPICAL STRINGER

Notes:
Length L of Stringer is correct as given in the Table, except the increment lengths are given to the nearest 1/16".
All dimensions are in the Horizontal Plane.

DESIGNED BY A.T.
DRAWN BY I.M.
CHECKED BY S.B.
APPROVED BY K.A.

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

STRINGER SCHEDULE
SPANS A38 THRU A40
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

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

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

SHEET 67 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.- 70	82-3HVB-3	ST. CLAIR	262	186
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

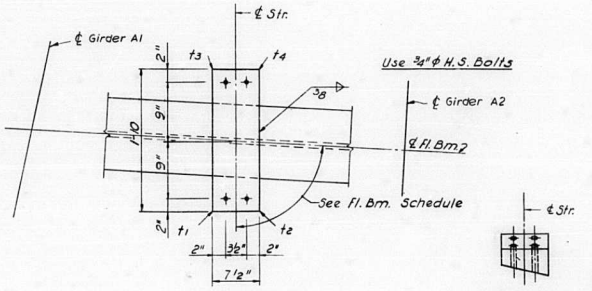
FLOOR BEAM 48 THRU 50	T1	T2	T3	T4
STR. 119 THRU 130	7/8	13/16	7/16	3/8

FLOOR BEAM 51 THRU 53	T1	T2	T3	T4
STR. 131 THRU 136	7/8	7/8	3/8	3/8

FLOOR BEAM 54 THRU 56	T1	T2	T3	T4
STR. 137 THRU 148	7/8	7/8	3/8	3/8

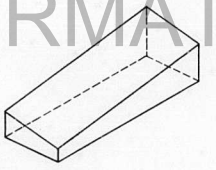
FLOOR BEAM 57 THRU 59	T1	T2	T3	T4
STR. 149 THRU 154	7/8	7/8	3/8	3/8

FLOOR BEAM 60 THRU 62	T1	T2	T3	T4
STR. 155 THRU 166	7/8	7/8	3/8	3/8

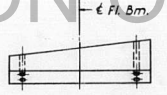


PLAN

END VIEW



ISOMETRIC VIEW



SIDE VIEW

SHIM DETAIL

Shim thickness t1, t2, t3 & t4 shown in the Table are orientated with the Plan View shown above.

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

STRINGER SHIMS

SPANS A38 THRU A40

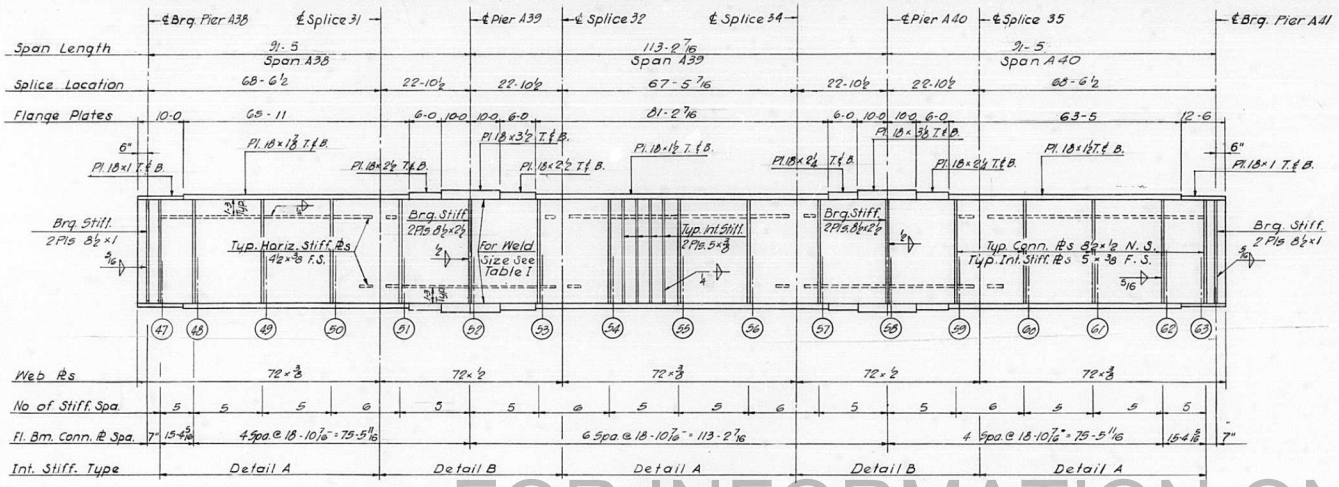
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

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

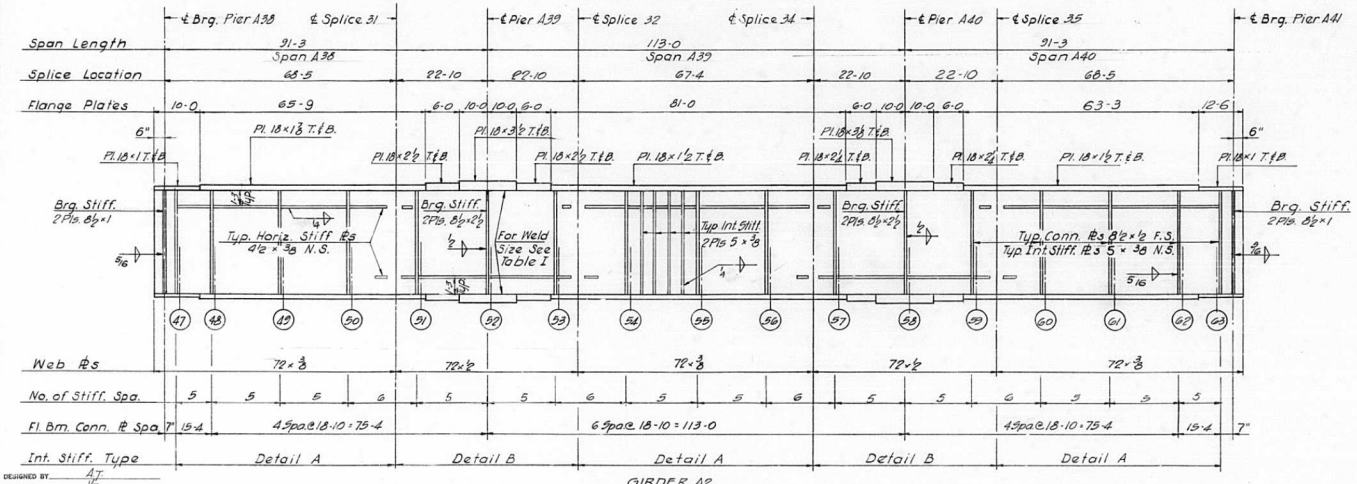
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET
68 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVB-3	ST. CLAIR	262	136
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



GIRDER A1
Spans A38 thru A40



GIRDER A2
Spans A38 thru A40

NOTES:
All longitudinal dimensions shown are given along ℄ of Web see Sheet No. 65
All Bearing Stiffeners and Connection Plates to be vertical.
For Splice, Stiffener, Connection Plate Details and Table I see Sheet No. 106 & 107

DESIGNED BY A.T.
DRAWN BY V.T.
CHECKED BY S.B.
APPROVED BY K.A.

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

GIRDERS A1 AND A2

SPANS A38 THRU A40

POPLAR STREET BRIDGE APPROACHES

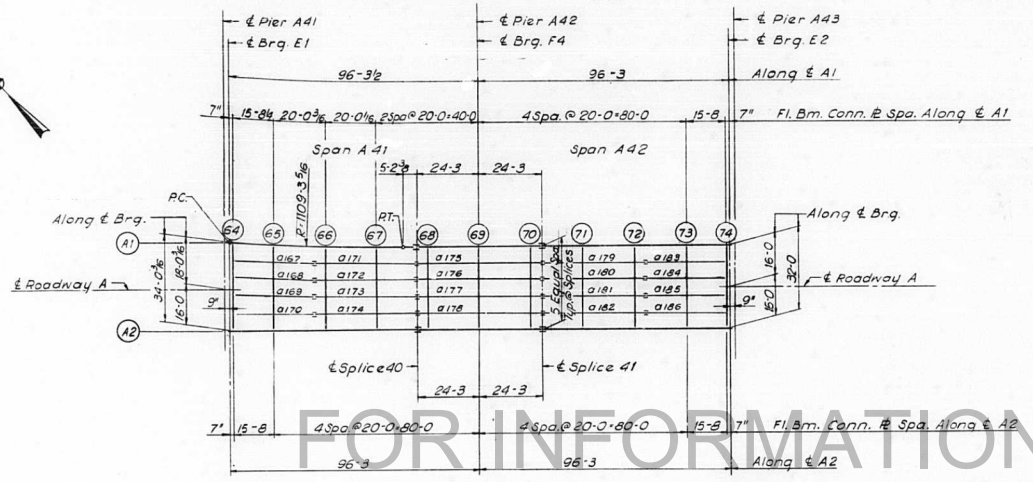
ROADWAY "A"

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

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

SHEET 69 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. – 70	82-3HVB-3	ST. CLAIR	262	137
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



PLAN

SPANS A41 AND A42

ELEVATION TOP OF GIRDER WEB

	GIR. A1	GIR. A2	DIFF.
CL. BRG.	438.430	438.475	.045
FLOOR BEAM 64	438.417	438.462	.045
FLOOR BEAM 65	438.058	438.094	.036
FLOOR BEAM 66	437.601	437.624	.023
FLOOR BEAM 67	437.144	437.154	.010
SPLICE 40	436.784	436.784	.000
FLOOR BEAM 68	436.684	436.684	.000
FLOOR BEAM 69	436.214	436.214	.000
FLOOR BEAM 70	435.744	435.744	.000
SPLICE 41	435.644	435.644	.000
FLOOR BEAM 71	435.274	435.274	.000
FLOOR BEAM 72	434.805	434.805	.000
FLOOR BEAM 73	434.335	434.335	.000
FLOOR BEAM 74	433.967	433.967	.000
CL. BRG.	433.953	433.953	.000

Note:
Dimensions locating Floor Beams are given to the Floor Beam Conn. Plate see Sketch Sheet No. 60

BILL OF MATERIAL		
*Structural Steel	Lbs.	244,460

* Weight of Bearing Assemblies with Lead Plates and Anchor Bolts are Included as Structural Steel Est. Wt. 5490 Lbs.

DESIGNED BY A.T.
DRAWN BY I.M.
CHECKED BY S.A.B
APPROVED BY K.A.

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

FRAMING PLAN
SPANS A41 AND A42
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

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

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

SHEET
70 OF 163

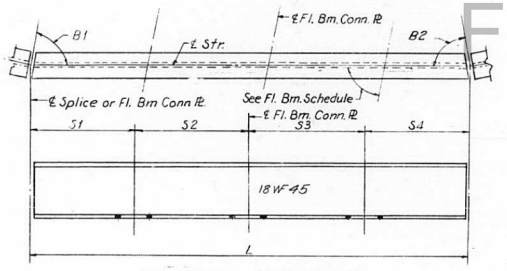
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. - 70	82-3HVB-3	ST. CLAIR	262	138
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

STRINGER DIMENSIONS

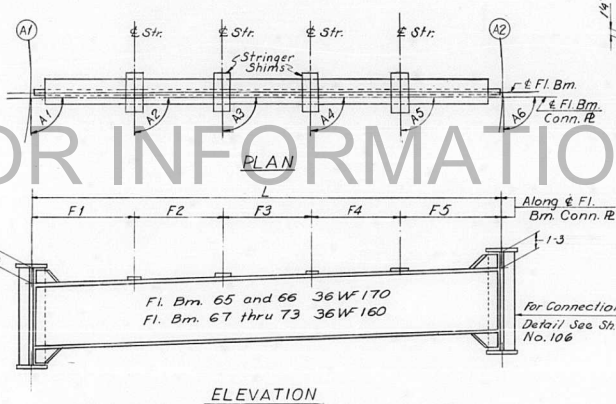
STR	L	S1	S2	S3	S4	B1	B2
167	31'-5 1/4"	15'-8 1/8"	○	○	15'-9 1/8"	92°05'19"	87°54'41"
168	31 5 1/8	15-8 1/16	↓	↓	15 9 1/16	91.34.00	88.26.00
169	31 5 1/16	15 8	↓	↓	15 9 1/16	91.02.41	88.57.19
170	31 5	15 8	○	↓	15 9	90.31.21	89.28.39
171	40	4 3	20	↓	15 9	90.37.33	89.22.27
172	40	4 3	20	↓	15 9	90.28.09	89.31.51
173	40	4 3	20	↓	15 9	90.18.46	89.41.14
174	40	4 3	20	○	15 9	90.09.23	89.50.37
175	48 6	4 3	20	20	4 3	90.00.00	90.00.00
176	48 6	4 3	20	20	4 3	90.00.00	90.00.00
177	48 6	4 3	20	20	4 3	90.00.00	90.00.00
178	48 6	4 3	20	20	4 3	90.00.00	90.00.00
179	40	15 9	20	○	4 3	90.00.00	90.00.00
180	40	15 9	20	↓	4 3	90.00.00	90.00.00
181	40	15 9	20	↓	4 3	90.00.00	90.00.00
182	40	15 9	20	↓	4 3	90.00.00	90.00.00
183	31 5	15 9	○	↓	15 8	90.00.00	90.00.00
184	31 5	15 9	↓	↓	15 8	90.00.00	90.00.00
185	31 5	15 9	↓	↓	15 8	90.00.00	90.00.00
186	31 5	15 9	○	○	15 8	90.00.00	90.00.00

FLOOR BEAM DIMENSIONS

FL BM	L	F1	F2	F3	F4	F5	A1	A2	A3	A4	A5	A6
64	33'-11 3/4"	6'-9 9/16"	6'-9 9/16"	6'-9 9/16"	6'-9 9/16"	6'-9 9/16"	92°25'20"	92°05'19"	91°34.00"	91°02.41"	90°31.21"	90°00.00"
65	33 1 13/16	6 6 1/2	6 7 13/16	6 7 13/16	6 7 13/16	6 7 13/16	92.36.43	92.05.19	91.34.00	91.02.41	90.31.21	90.00.00
66	32 5 1/16	6 5 3/16	6 6	6 6	6 6	6 6	91.34.42	90.37.33	90.28.09	90.18.46	90.09.23	90.00.00
67	32 5/8	6 3 5/16	6 5 5/16	6 5 5/16	6 5 5/16	6 5 5/16	90.32.42	90.37.33	90.28.09	90.18.46	90.09.23	90.00.00
68	32	6 4 13/16	6 4 13/16	6 4 13/16	6 4 13/16	6 4 13/16	90.00.00	90.00.00	90.00.00	90.00.00	90.00.00	90.00.00
69	32	6 4 13/16	6 4 13/16	6 4 13/16	6 4 13/16	6 4 13/16	90.00.00	90.00.00	90.00.00	90.00.00	90.00.00	90.00.00
70	32	6 4 13/16	6 4 13/16	6 4 13/16	6 4 13/16	6 4 13/16	90.00.00	90.00.00	90.00.00	90.00.00	90.00.00	90.00.00
71	32	6 4 13/16	6 4 13/16	6 4 13/16	6 4 13/16	6 4 13/16	90.00.00	90.00.00	90.00.00	90.00.00	90.00.00	90.00.00
72	32	6 4 13/16	6 4 13/16	6 4 13/16	6 4 13/16	6 4 13/16	90.00.00	90.00.00	90.00.00	90.00.00	90.00.00	90.00.00
73	32	6 4 13/16	6 4 13/16	6 4 13/16	6 4 13/16	6 4 13/16	90.00.00	90.00.00	90.00.00	90.00.00	90.00.00	90.00.00
74	32	6 4 13/16	6 4 13/16	6 4 13/16	6 4 13/16	6 4 13/16	90.00.00	90.00.00	90.00.00	90.00.00	90.00.00	90.00.00

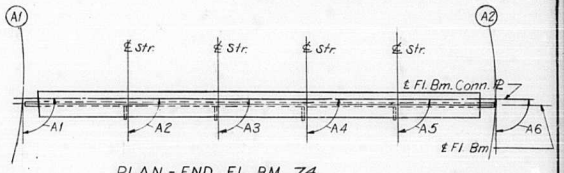


TYPICAL STRINGER

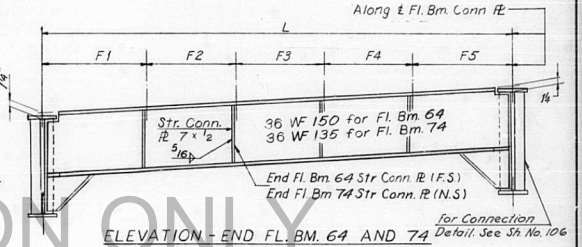


ELEVATION

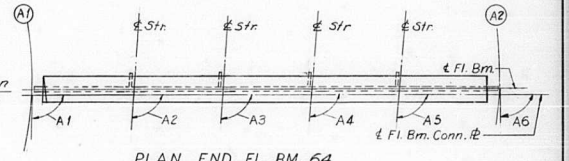
INTERIOR FLOOR BEAM 65 THRU 73



PLAN - END FL. BM. 74



ELEVATION - END FL. BM. 64 AND 74



PLAN END FL. BM. 64

END FLOOR BEAM 64 AND 74

Notes:

Length L of stringers and Fl. Bms. is correct as given in the Table except the increment lengths are given to the nearest 1/16".
All dimensions are in the horizontal plane.
For Connection Plate Details see Sh. No. 106

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

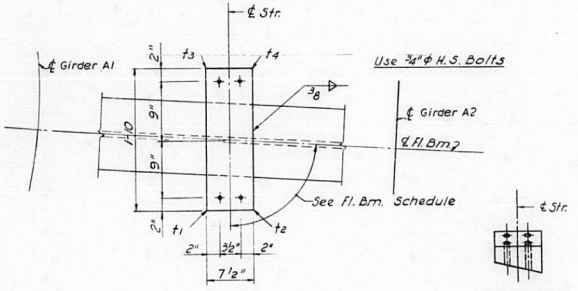
STRINGER AND FLOOR BEAM SCHEDULE
SPANS A41 AND A 42
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

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

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

SHEET 71 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. – 70	82–3HVB–3	ST. CLAIR	262	139
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



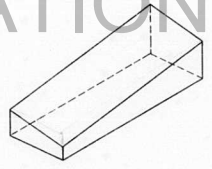
PLAN

END VIEW

FLOOR BEAM 65 THRU 67	T1	T2	T3	T4
STR. 167 THRU 174	7/8	7/8	3/8	3/8

FLOOR BEAM 68 THRU 70	T1	T2	T3	T4
STR. 175 THRU 178	7/8	7/8	3/8	3/8

FLOOR BEAM 71 THRU 73	T1	T2	T3	T4
STR. 179 THRU 186	7/8	7/8	3/8	3/8



ISOMETRIC VIEW

SIDE VIEW

SHIM DETAIL

Shim thickness t1, t2, t3 & t4 shown in the Table are orientated with the Plan View shown above.

DESIGNED BY A.T.
DRAWN BY I.M.
CHECKED BY C.O.B.
APPROVED BY K.A.

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

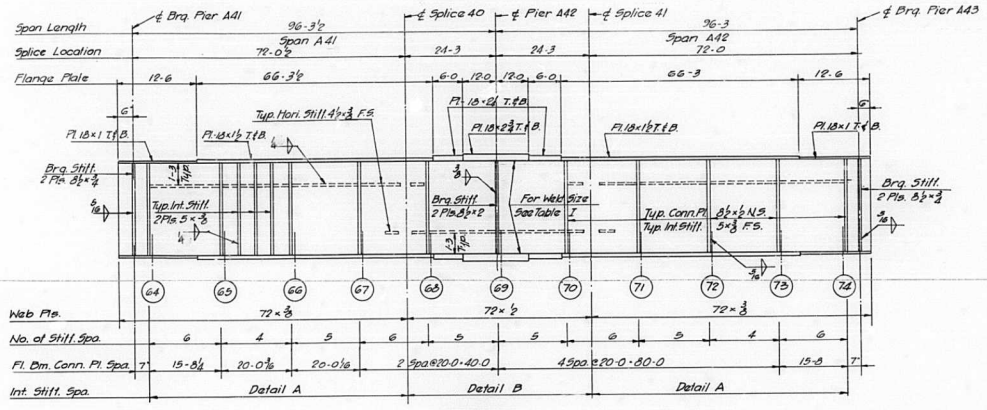
STRINGER SHIMS
SPANS A41 THRU A42
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

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

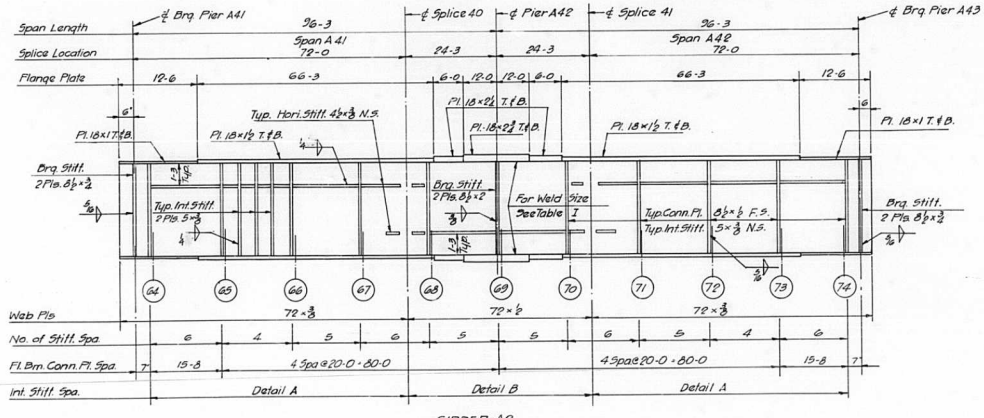
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET
72 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	140
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



GIRDER A1
Spans A41 & A42



GIRDER A2
Spans A41 & A42

NOTES:
All longitudinal Dimensions shown are given along ℄ of Web. See Sheet No. 70
All Bearing Stiffeners and Connection Plates are to be vertical.
For Splice, Stiffener, Connection Plates and Table I See Sheet No. 106 & 107

DESIGNED BY A.T.
DRAWN BY I.M.
CHECKED BY S.A.B.
APPROVED BY K.A.

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

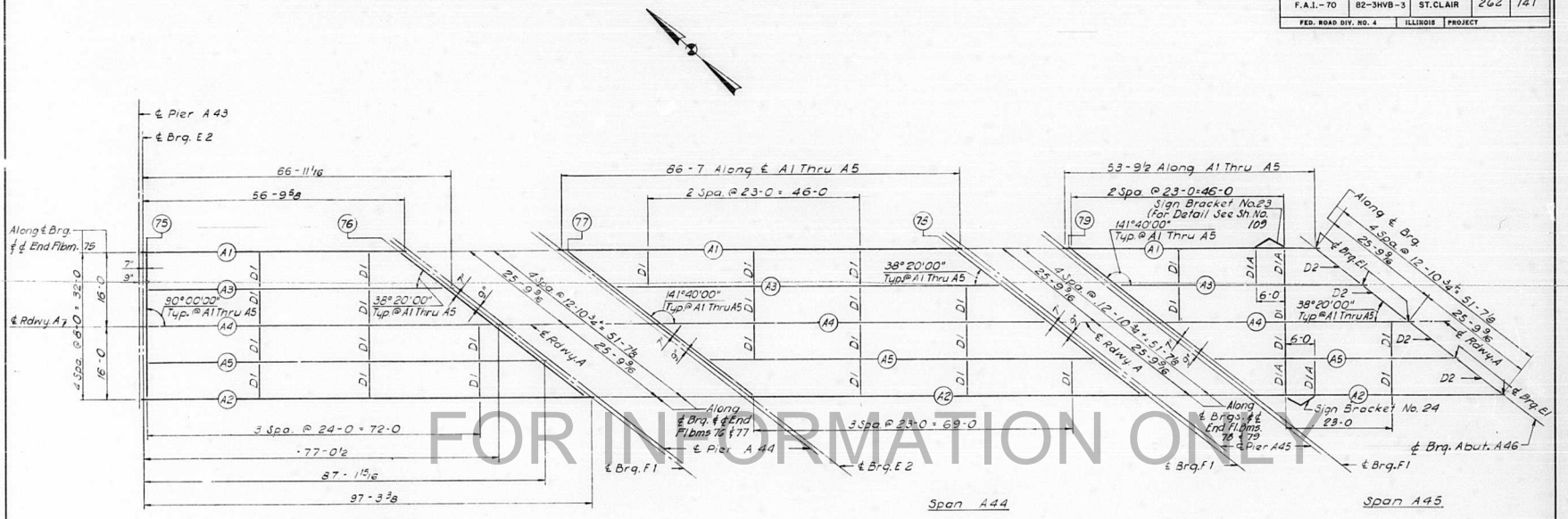
GIRDERS A1 AND A2
SPANS A41 AND A42
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

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

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

SHEET 73 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	141
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



PLAN
SPAN A43 THRU A45

ELEVATION TOP OF GIRDER WEB SPAN A43
ELEVATION TOP OF FLANGE SPANS A44 & A45

		GIR. A1	GIR. A2	DIFF.
CL. BRG.		433.918	433.918	.000
FLOOR BEAM	75	433.905	433.904	.001
FLOOR BEAM	76	432.603	431.610	.993
CL. BRG.		432.581	431.587	.994
CL. BRG.		432.732	431.735	.997
FLOOR BEAM	77	432.708	431.710	.998
FLOOR BEAM	78	430.558	429.448	1.110
CL. BRG.		430.534	429.423	1.111
CL. BRG.		430.469	429.355	1.114
FLOOR BEAM	79	430.443	429.327	1.116
		429.003	427.819	1.184
CL. BRG.		428.977	427.792	1.185

BILL OF MATERIAL		
*Structural Steel	Lbs.	326,990

*Weight of Bearing Assemblies with Lead Plates and Anchor Bolts are Included as Structural Steel Est. Wt. 11970 Lbs.

DESIGNED BY A.T.
DRAWN BY I.M.
CHECKED BY S.A.B
APPROVED BY K.A.

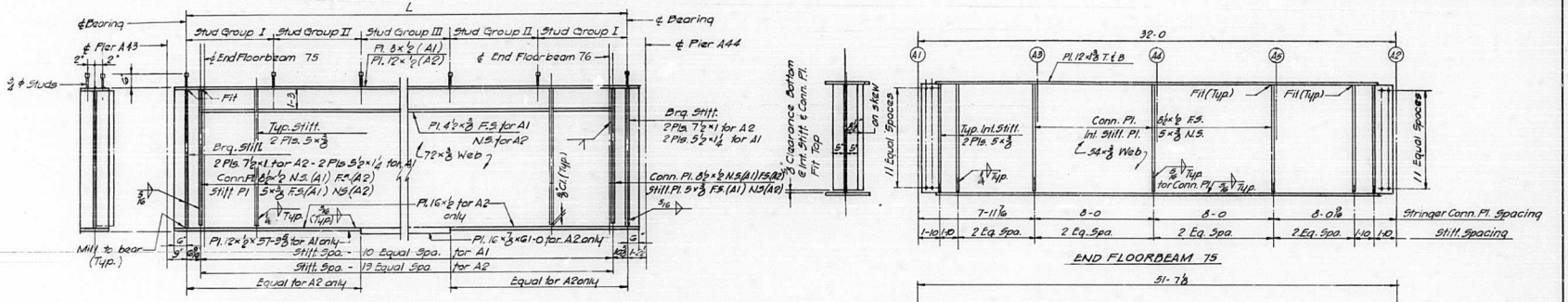
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS

FRAMING PLAN
SPANS A43 THRU A45
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"
F.A.I. RT. 70 ST. CLAIR CO SECTION 82-3HVB-3

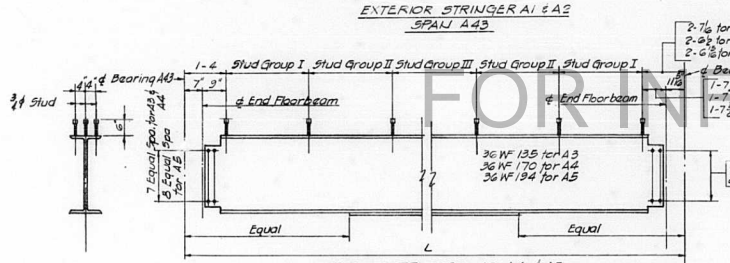
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 74 OF 163

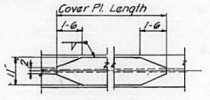
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	142
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



EXTERIOR STRINGER A1 & A2
SPAN A43

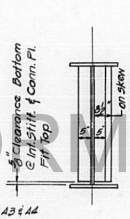


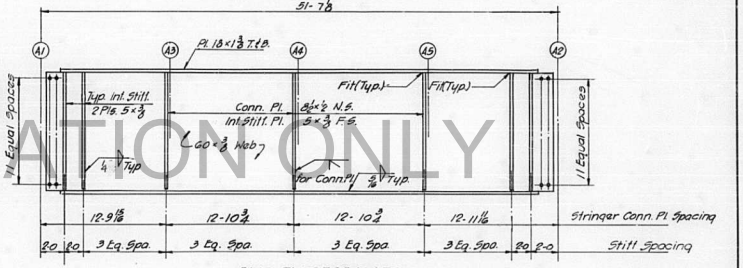
INTERIOR STRINGER A3, A4, & A5
SPAN A43



COVER PLATE DETAIL

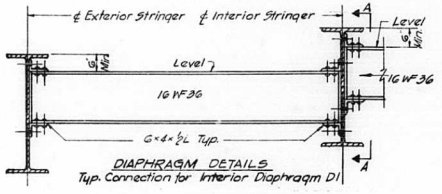
END FLOORBEAM 75



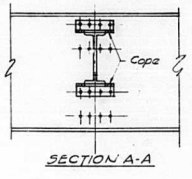


END FLOORBEAM 76

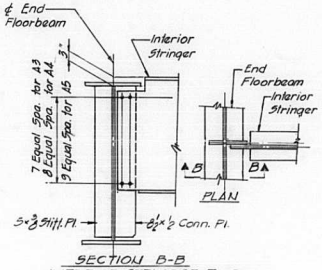
STRINGER & COVER PL. LENGTHS - SHEAR CONN. SPACING				
STRINGER	LENGTH (L)	BOTTOM COVER PL.	STUD GROUP I	STUD GROUP II	STUD GROUP III
A1	56-9⅜	See Stringer Detail	12 Spa @ 11"	7 Spa @ 16"	8 Spa @ 24"
A2	57-3⅜		24 Spa @ 10"	13 Spa @ 14"	11 Spa @ 24"
A3	66-11⅛	1 1/4 x 52'-0	34 Spa @ 8½"	20 Spa @ 9½"	21 Spa @ 9"
A4	77-0½	1 1¼ x 60'-0	28 Spa @ 8⅜"	32 Spa @ 9½"	28 Spa @ 9½"
A5	87-1⅛	1 1⅜ x 68'-0	28 Spa @ 8⅜"	40 Spa @ 9½"	27 Spa @ 9½"



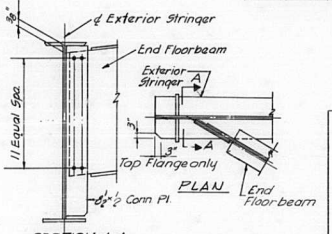
DIAPHRAGM DETAILS
Typ. Connection for Interior Diaphragm DI



SECTION A-A



SECTION B-B
INTERIOR STRINGER TO END FLOORBEAM CONNECTION



SECTION A-A
END FLOORBEAM TO EXTERIOR STRINGER CONNECTION

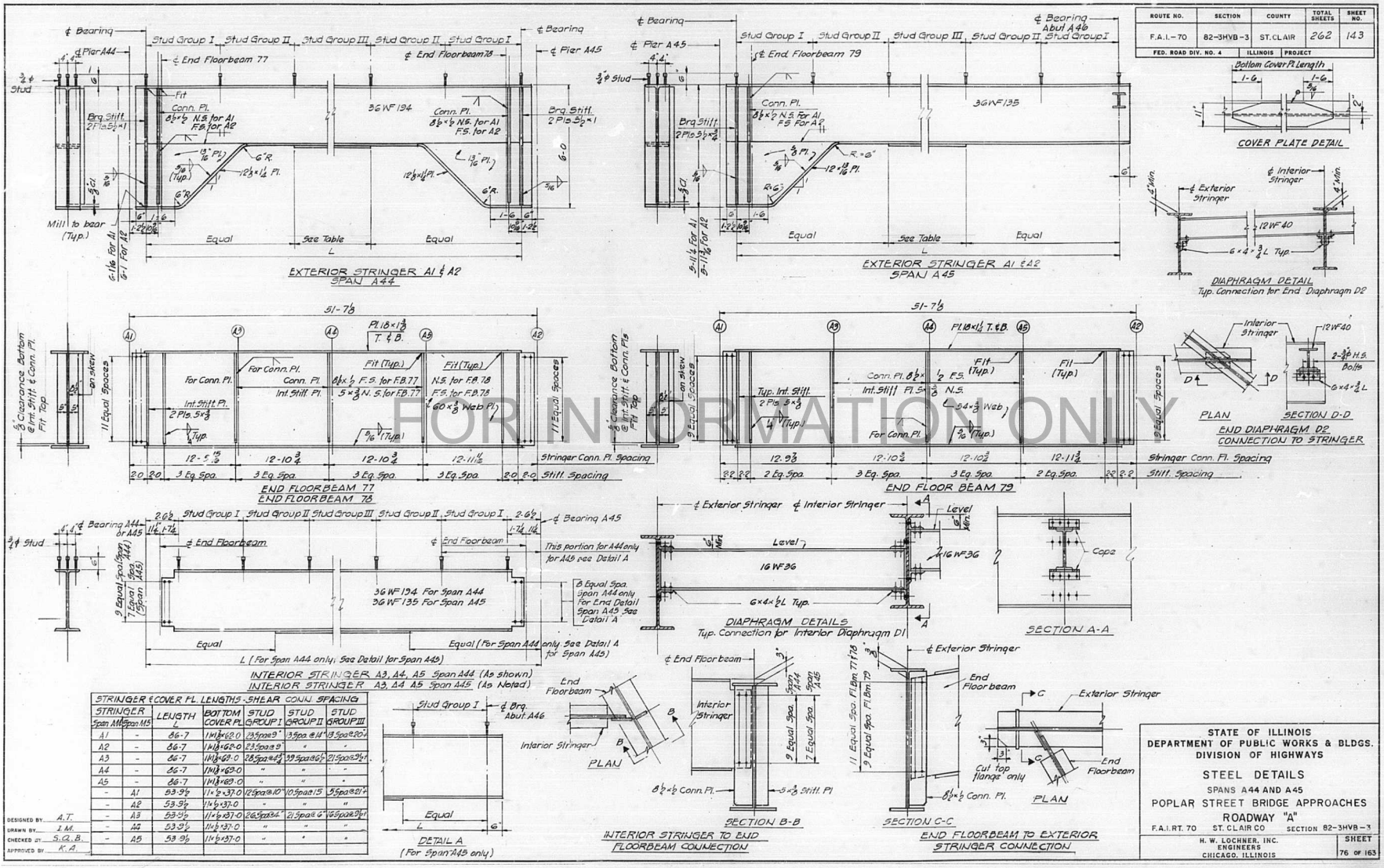
DESIGNED BY A.T.
DRAWN BY T.M.
CHECKED BY S.Q.B.
APPROVED BY K.A.

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

STEEL DETAILS
SPAN A43
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"
F.A.I. RT. 70 ST. CLAIR CO SECTION 82-3HVB - 3

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

SHEET 75 OF 163



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	143
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

STRINGER & COVER PL. LENGTHS - SHEAR CONN. SPACING

STRINGER Span A44	STRINGER Span A45	LENGTH L	BOTTOM COVER PL.	STUD GROUP I	STUD GROUP II	STUD GROUP III
A1	-	86-7	1W1⅜×62-0	13 Spa @ 9"	35 Spa @ 14"	18 Spa @ 20"
A2	-	86-7	1W1⅜×62-0	23 Spa @ 9"	"	"
A3	-	86-7	1W1⅜×63-0	28 Spa @ 4½"	39 Spa @ 6½"	21 Spa @ 9½"
A4	-	86-7	1W1⅜×63-0	"	"	"
A5	-	86-7	1W1⅜×63-0	"	"	"
-	A1	53-9½	1×½×37-0	12 Spa @ 9.10"	10 Spa @ 15"	5 Spa @ 21½"
-	A2	53-9½	1×½×37-0	"	"	"
-	A3	53-9½	1W1⅛×37-0	26 Spa @ 4½"	21 Spa @ 6½"	16 Spa @ 9½"
-	A4	53-9½	1W1⅛×37-0	"	"	"
-	A5	53-9½	1W1⅛×37-0	"	"	"

DESIGNED BY A.T.
DRAWN BY L.M.
CHECKED BY S.Q.B.
APPROVED BY K.A.

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

STEEL DETAILS

SPANS A44 AND A45

POPLAR STREET BRIDGE APPROACHES

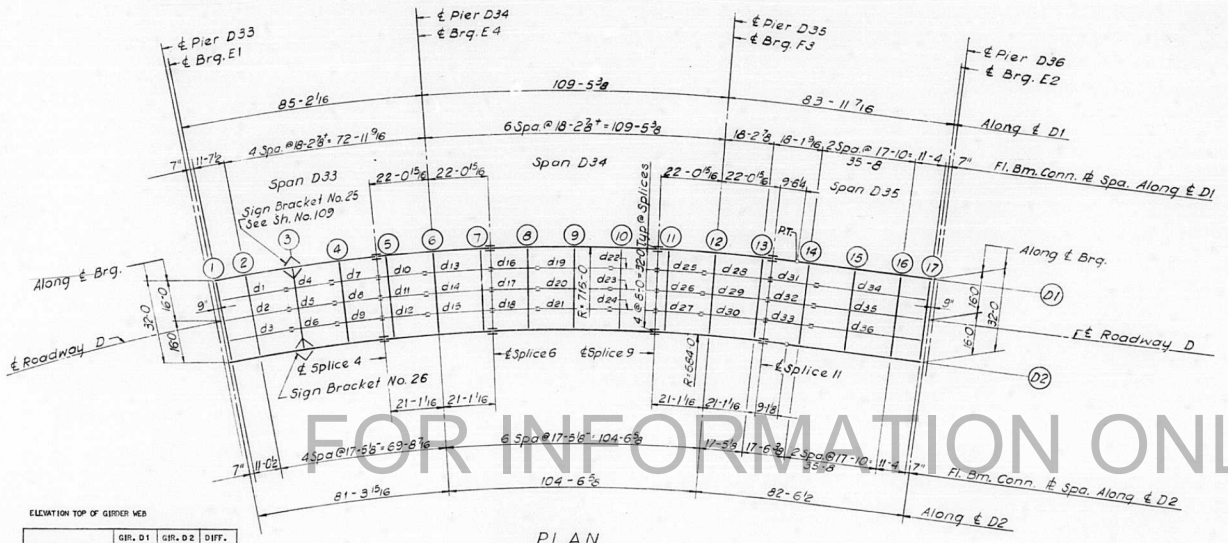
ROADWAY "A"

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

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

SHEET 76 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.–70	82–3HVB–3	ST. CLAIR	262	144
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



PLAN

SPANS D33 THRU D35

ELEVATION TOP OF GIRDER WEB

		GIR. D1	GIR. D2	DIFF.
CL. BRG.		457.141	454.581	2.560
FLOOR BEAM	1	457.140	454.580	2.560
FLOOR BEAM	2	457.116	454.556	2.560
FLOOR BEAM	3	457.079	454.519	2.560
FLOOR BEAM	4	457.041	454.481	2.560
SPLICE	4	457.011	454.451	2.560
FLOOR BEAM	5	456.984	454.424	2.560
FLOOR BEAM	6	456.852	454.292	2.560
FLOOR BEAM	7	456.721	454.161	2.560
SPLICE	6	456.693	454.133	2.560
FLOOR BEAM	8	456.495	453.969	2.526
FLOOR BEAM	9	456.245	453.762	2.483
FLOOR BEAM	10	455.994	453.554	2.440
SPLICE	9	455.796	453.390	2.406
FLOOR BEAM	11	455.700	453.344	2.356
FLOOR BEAM	12	455.244	453.126	2.118
FLOOR BEAM	13	454.788	452.907	1.881
SPLICE	11	454.692	452.861	1.831
FLOOR BEAM	14	454.253	452.618	1.635
FLOOR BEAM	15	453.705	452.305	1.400
FLOOR BEAM	16	453.157	451.992	1.165
FLOOR BEAM	17	452.809	451.793	1.016
CL. BRG.		452.791	451.782	1.009

Note

Dimensions locating Floor Beams are given to the Floor Beam Conn. Plate see Sketch Sheet No. 60

BILL OF MATERIAL		
*Structural Steel	Lbs.	356,270

* Weight of Bearing Assemblies with Lead Plates and Anchor Bolts are Included as Structural Steel Est. Wt. 7980 Lbs.

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

FRAMING PLAN
SPANS D33 THRU D35
POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

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

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

SHEET 77 OF 163

SIGNED BY A.T.
DWN BY I.M.
CHKD BY S.A.B.
APPROVED BY K.A.

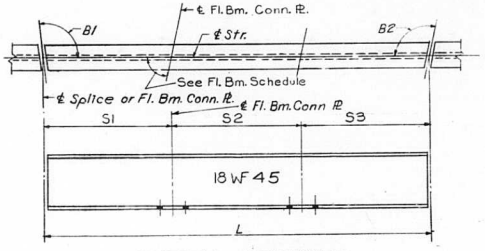
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	145
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

STRINGER DIMENSIONS

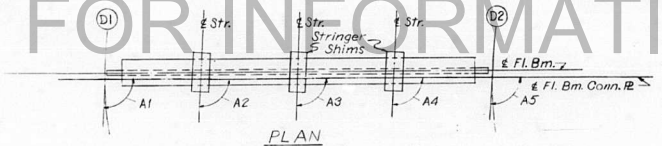
STR	L	S1	S2	S3	B1	B2
1	25'-8 5/8"	11'-5 3/4"	○	14'-2 15/16"	91.08.55"	91.02.27"
2	25 5	11 4	↑	14 1	91.08.58	91.02.25
3	25 1 5/16	11 2 1/4	↑	13 11 1/16	91.09.00	91.02.22
4	18 7/16	3 9 1/2	↑	14 2 15/16	90.43.47	90.43.47
5	17 10	3 9	↑	14 1	90.43.47	90.43.47
6	17 7 9/16	3 8 1/2	↑	13 11 1/16	90.43.47	90.43.47
7	18 7/16	3 9 1/2	↑	14 2 15/16	90.43.47	90.43.47
8	17 10	3 9	↑	14 1	90.43.47	90.43.47
9	17 7 9/16	3 8 1/2	↑	13 11 1/16	90.43.47	90.43.47
10	18 7/16	3 9 1/2	↑	14 2 15/16	90.43.47	90.43.47
11	17 10	3 9	↑	14 1	90.43.47	90.43.47
12	17 7 9/16	3 8 1/2	○	13 11 1/16	90.43.47	90.43.47
13	25 7 7/16	3 9 1/2	18 7/16	3 9 1/2	91.02.12	91.02.12
14	25 4	3 9	17 10	3 9	91.02.12	91.02.12
15	25 1/2	3 8 1/2	17 7 1/2	3 8 1/2	91.02.12	91.02.12
16	18 7/16	14 2 15/16	○	3 9 1/2	90.43.47	90.43.47
17	17 10	14 1	↑	3 9	90.43.47	90.43.47
18	17 7 9/16	13 11 1/16	↑	3 8 1/2	90.43.47	90.43.47
19	28 5 13/16	14 2 15/16	↑	14 2 15/16	91.09.10	91.09.10
20	28 2	14 1	↑	14 1	91.09.10	91.09.10
21	27 10 1/8	13 11 1/16	↑	13 11 1/16	91.09.10	91.09.10
22	18 7/16	3 9 1/2	↑	14 2 15/16	90.43.47	90.43.47
23	17 10	3 9	↑	14 1	90.43.47	90.43.47
24	17 7 9/16	3 8 1/2	↑	13 11 1/16	90.43.47	90.43.47
25	18 7/16	3 9 1/2	↑	14 2 15/16	90.43.47	90.43.47
26	17 10	3 9	↑	14 1	90.43.47	90.43.47
27	17 7 9/16	3 8 1/2	○	13 11 1/16	90.43.47	90.43.47
28	25 7 7/16	3 9 1/2	18 7/16	3 9 1/2	91.02.12	91.02.12
29	25 4	3 9	17 10	3 9	91.02.12	91.02.12
30	25 1/2	3 8 1/2	17 7 1/2	3 8 1/2	91.02.12	91.02.12
31	17 11 1/4	14 2 1/4	○	3 9	90.33.43	90.12.00
32	17 10	14 1	↑	3 9	90.33.47	90.11.56
33	17 8 3/4	13 11 3/4	○	3 9	90.33.51	90.11.52
34	43 3	14 1	17 10	11 4	90.00.00	90.00.00
35	43 3	14 1	17 10	11 4	90.00.00	90.00.00
36	43 3	14 1	17 10	11 4	90.00.00	90.00.00

FLOOR BEAM DIMENSIONS

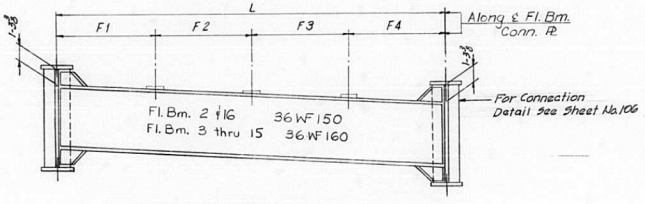
FL BM	L	F1	F2	F3	F4	A1	A2	A3	A4	A5
1	32'-0"	8'-0"	8'-0"	8'-0"	8'-0"	90.06.24"	91.08.55"	91.08.58"	91.09.00"	90.06.42"
2	32	8 1 3/8	8	8	7 10 5/8	90.00.00	90.06.43	90.06.45	90.06.47	90.00.00
3	32	8 7/16	8	8	7 11 9/16	90.00.00	90.25.22	90.25.22	90.25.22	90.00.00
4	32	8 7/16	8	8	7 11 9/16	90.00.00	90.25.22	90.25.22	90.25.22	90.00.00
5	32	8 7/16	8	8	7 11 9/16	90.00.00	90.25.22	90.25.22	90.25.22	90.00.00
6	32	8 11/16	8	8	7 11 5/16	90.00.00	90.43.47	90.43.47	90.43.47	90.00.00
7	32	8 11/16	8	8	7 11 5/16	90.00.00	89.16.13	89.16.13	89.16.13	90.00.00
8	32	8 7/16	8	8	7 11 9/16	90.00.00	89.34.38	89.34.38	89.34.38	90.00.00
9	32	8 1 3/4	8	8	7 10 5/16	90.00.00	90.00.00	90.00.00	90.00.00	90.00.00
10	32	8 7/16	8	8	7 11 9/16	90.00.00	90.25.22	90.25.22	90.25.22	90.00.00
11	32	8 7/16	8	8	7 11 9/16	90.00.00	90.25.22	90.25.22	90.25.22	90.00.00
12	32	8 11/16	8	8	7 11 5/16	90.00.00	90.43.47	90.43.47	90.43.47	90.00.00
13	32	8 11/16	8	8	7 11 5/16	90.00.00	89.16.13	89.16.13	89.16.13	90.00.00
14	32	8 3/16	8	8	7 11 7/8	90.00.00	89.48.00	89.48.04	89.48.08	90.00.00
15	32	8	8	8	8	90.00.00	90.00.00	90.00.00	90.00.00	90.00.00
16	32	8	8	8	8	90.00.00	90.00.00	90.00.00	90.00.00	90.00.00
17	32	8	8	8	8	90.00.00	90.00.00	90.00.00	90.00.00	90.00.00



TYPICAL STRINGER

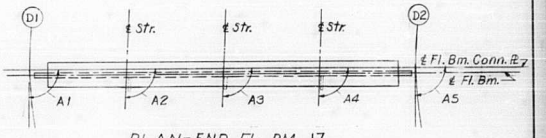


PLAN

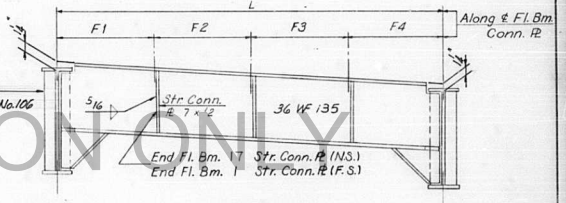


ELEVATION

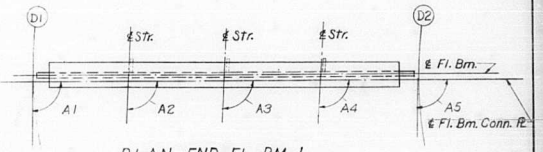
INTERIOR FLOOR BEAM 2 THRU 16



PLAN-END FL. BM. 17



ELEVATION



PLAN-END FL. BM. 1

END FLOOR BEAM 1 AND 17

Notes:
Length L of Stringers and Fl. Bms. is correct as given in the table except the increment lengths are given to the nearest 1/16".
All dimensions are in the horizontal plane.
For Connection Plate Details see Sheet No. 106

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
STRINGER AND FLOOR BEAM SCHEDULE
SPANS D33 THRU D35
POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-3

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

SHEET 78 OF 163

D BY A.T.
BY D.C.H.
D BY S.A.B.
ED BY K.A.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	146
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

FLOOR BEAM 2 THRU 4	T1	T2	T3	T4
STR. 1 THRU 9	5/8	1 3/16	9/16	1 1/8

FLOOR BEAM 5 THRU 7	T1	T2	T3	T4
STR. 10 THRU 15	5/8	1 1/4	1/2	1 1/8

FLOOR BEAM 8 THRU 10	T1	T2	T3	T4
STR. 16 THRU 24	3/4	1 5/16	7/16	1

FLOOR BEAM 11	T1	T2	T3	T4
STR.				
25	13/16	1 3/8	3/8	15/16
26	13/16	1 3/8	3/8	15/16
27	3/4	1 5/16	7/16	1

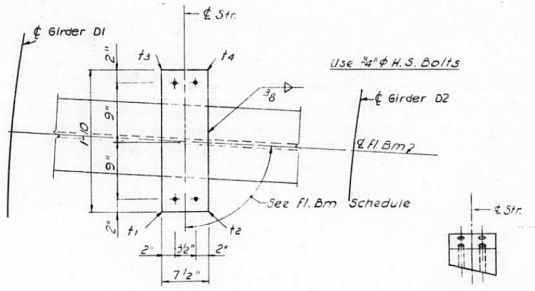
FLOOR BEAM 12	T1	T2	T3	T4
STR.				
28	7/8	1 3/8	3/8	7/8
29	13/16	1 5/16	7/16	15/16
30	13/16	1 5/16	7/16	15/16

FLOOR BEAM 13	T1	T2	T3	T4
STR.				
28	7/8	1 5/16	7/16	7/8
29	7/8	1 5/16	7/16	7/8
30	13/16	1 1/4	1/2	15/16

FLOOR BEAM 14	T1	T2	T3	T4
STR.				
31	1	1 3/8	3/8	3/4
32	15/16	1 5/16	7/16	13/16
33	15/16	1 5/16	7/16	13/16

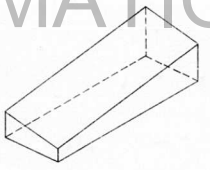
FLOOR BEAM 15	T1	T2	T3	T4
STR.				
34	1	1 5/16	7/16	3/4
35	1	1 5/16	7/16	3/4
36	15/16	1 1/4	1/2	13/16

FLOOR BEAM 16	T1	T2	T3	T4
STR.				
34	1 1/16	1 5/16	7/16	11/16
35	1	1 1/4	1/2	3/4
36	15/16	1 1/4	1/2	13/16

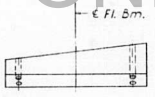


PLAN

END VIEW



ISOMETRIC VIEW



SIDE VIEW

SHIM DETAIL

Shim thickness t_1, t_2, t_3 & t_4 shown in the Table are orientated with the Plan View shown above.

DESIGNED BY A.T
DRAWN BY I.M.
CHECKED BY S.A.B.
APPROVED BY K.A.

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

STRINGER SHIMS

SPANS D33 THRU D35

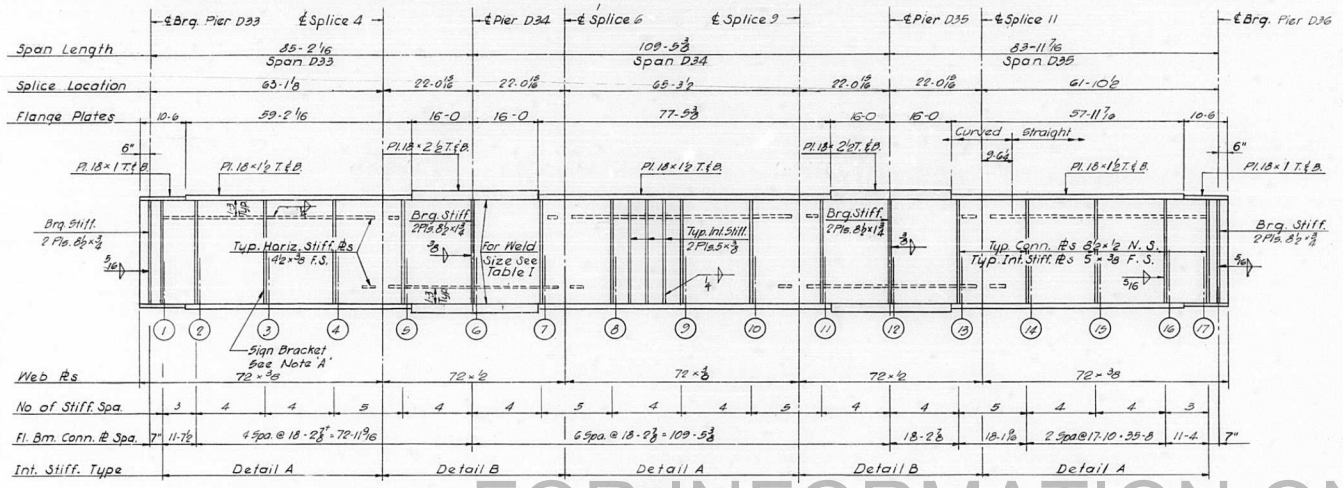
POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

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

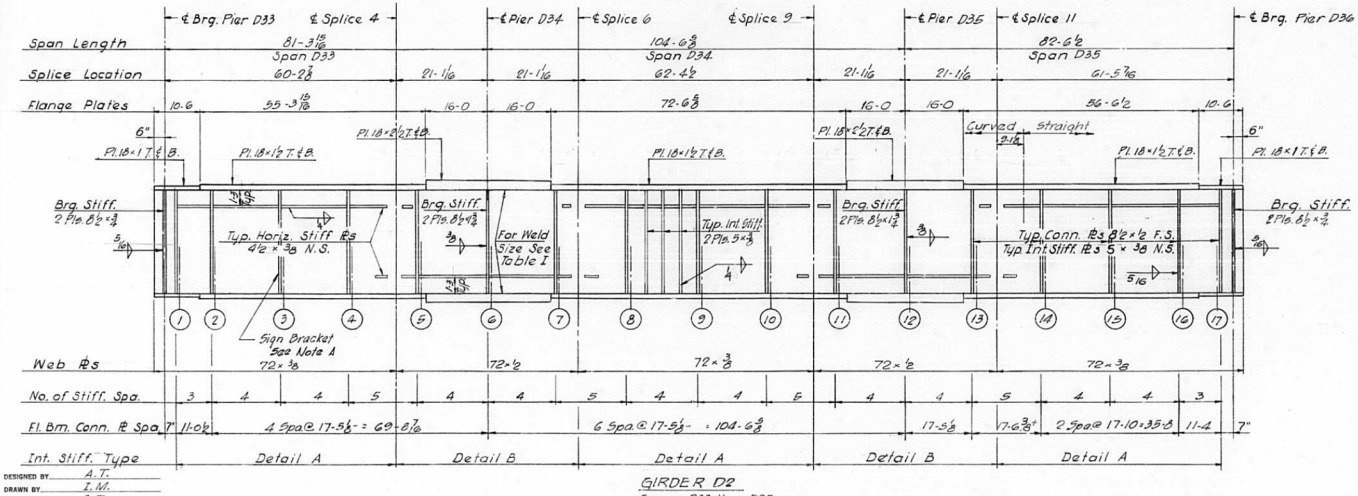
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 79 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVB-3	ST. CLAIR	262	147
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



GIRDER D1
Spans D33 thru D35



GIRDER D2
Spans D33 thru D35

NOTES:
All longitudinal dimensions shown are given along ℄ of Web see Sheet No. 77
All Bearing Stiffeners and Connection Plates to be vertical.
For Splice Stiffener, Connection Plate Details and Table I see Sheet No. 106 & 107

NOTE A
Intermediate Stiffeners should be moved if necessary to clear sign bracket connection plates

DESIGNED BY A. T.
DRAWN BY I. M.
CHECKED BY A. T.
APPROVED BY K. A.

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

GIRDERS D1 AND D2

SPANS D33 THRU D35

POPLAR STREET BRIDGE APPROACHES

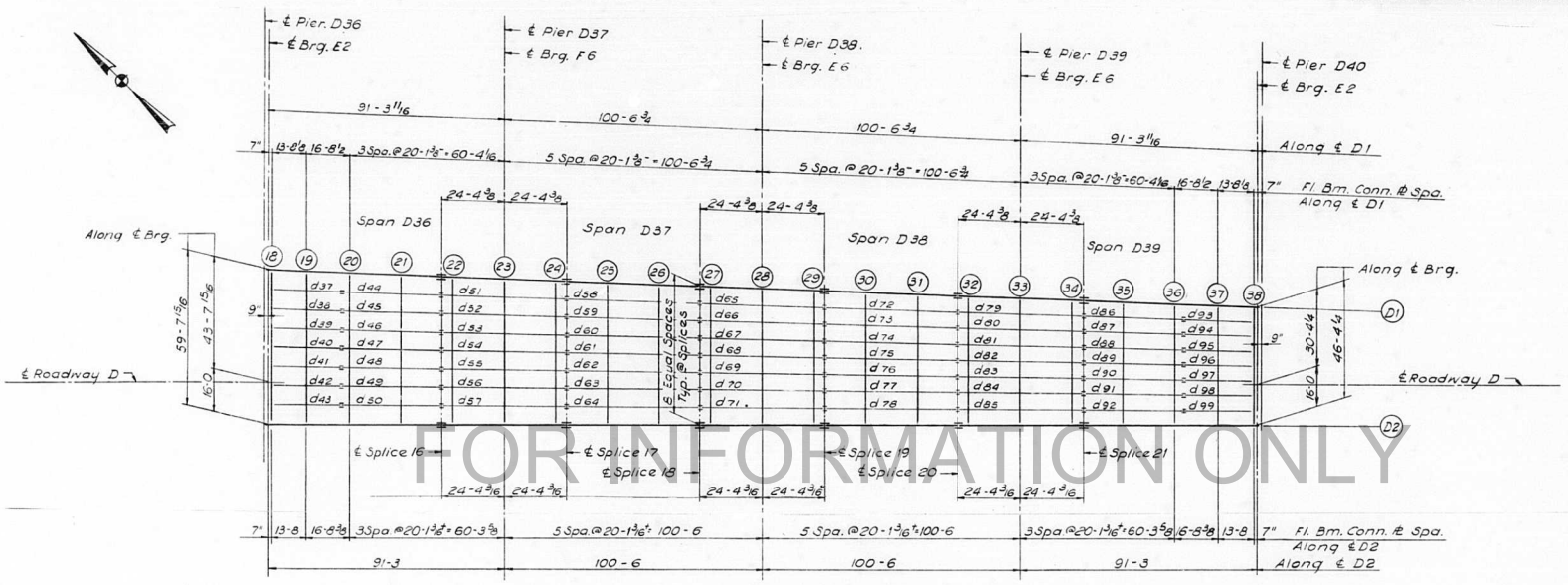
ROADWAY "D"

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

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

SHEET 80 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.–70	82–3HVB–3	ST. CLAIR	262	148
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



PLAN

SPANS D36 THRU D39

ELEVATION TOP OF GIRDER WEB

		GIR. D1	GIR. D2	DIFF.		
CL. BRG.		453.141	451.751	1.390		
FLOOR BEAM	18	453.113	451.737	1.376	.583	.583
FLOOR BEAM	19	452.443	451.413	1.030	13.675	13.667
FLOOR BEAM	20	451.626	451.016	.610	16.710	16.700
FLOOR BEAM	21	450.641	450.539	.102	20.112	20.100
SPLICE	16	449.865	450.162	.297	66.940	66.900
FLOOR BEAM	22	449.709	450.038	.329	4.253	4.250
FLOOR BEAM	23	448.969	449.447	.477	20.112	20.100
FLOOR BEAM	24	448.230	448.857	.627	20.112	20.100
SPLICE	17	448.074	448.732	.658	48.730	48.700
FLOOR BEAM	25	447.660	448.257	.597	15.860	15.850
FLOOR BEAM	26	447.137	447.654	.517	20.112	20.100
SPLICE	18	446.723	447.178	.455	51.832	51.800
FLOOR BEAM	27	446.599	447.051	.452	4.253	4.250

		GIR. D1	GIR. D2	DIFF.		
FLOOR BEAM	28	446.010	446.448	.438	20.112	20.100
FLOOR BEAM	29	445.422	445.845	.423	20.112	20.100
SPLICE	19	445.297	445.717	.420	48.730	48.700
FLOOR BEAM	30	444.833	445.242	.409	15.860	15.850
FLOOR BEAM	31	444.245	444.639	.393	20.112	20.100
SPLICE	20	443.781	444.163	.382	51.832	51.800
FLOOR BEAM	32	443.657	444.036	.379	4.253	4.250
FLOOR BEAM	33	443.068	443.433	.365	20.112	20.100
FLOOR BEAM	34	442.480	442.830	.350	20.112	20.100
SPLICE	21	442.355	442.702	.347	48.730	48.700
FLOOR BEAM	35	441.891	442.227	.336	15.860	15.850
FLOOR BEAM	36	441.303	441.624	.321	20.112	20.100
FLOOR BEAM	37	440.814	441.123	.309	16.710	16.700
FLOOR BEAM	38	440.413	440.713	.300	13.675	13.667
CL. BRG.		440.396	440.695	.299	66.940	66.900

Note

Dimensions locating Floor Beams are given to the Floor Beam Conn. Plate see Sketch Sheet No. 60

BILL OF MATERIAL		
*Structural Steel	Lbs.	727,470

*Weight of Bearing Assemblies with Lead Plates and Anchor Bolts are Included as Structural Steel Est. Wt. 15,810 Lbs.

DESIGNED BY A. T.
DRAWN BY I. M.
CHECKED BY A. T.
APPROVED BY K. A.

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

FRAMING PLAN
SPANS D36 THRU D39
POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-3

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

SHEET
81 OF 103

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82-3HVB-3	ST. CLAIR	262	149
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

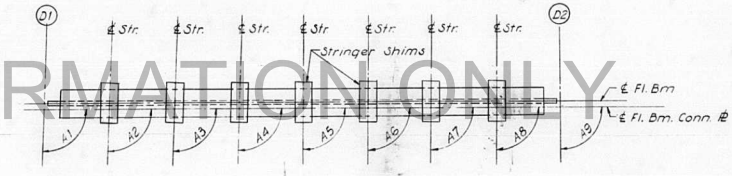
FLOOR BEAM DIMENSIONS

Fl. Bm	L	F1	F2	F3	F4	F5	F6	F7	F8	A1	A2	A3	A4	A5	A6	A7	A8	A9	Plate 'A' Top ℄ Bot.	Plate 'B' Top ℄ Bot.
18	59'-7 11/16"	7'-5 7/16"	7'-5 7/16"	7'-5 7/16"	7'-5 7/16"	7'-5 7/16"	7'-5 7/16"	7'-5 7/16"	7'-5 7/16"	91°59.12"	91°44.19"	91°29.25"	91°14.31"	90°59.37"	90°44.43"	90°29.49"	90°14.54"	90°00.00"	12 × 1 3/4	12 × 1
19	59 2	7 4 3/4	7 4 3/4	7 4 3/4	7 4 3/4	7 4 3/4	7 4 3/4	7 4 3/4	7 4 3/4	91.59.12	91.44.19	91.29.25	91.14.31	90.59.37	90.44.43	90.29.49	90.14.54	90.00.00	12 × 2 1/8	12 × 1 3/8
20	58 7	7 3 7/8	7 3 7/8	7 3 7/8	7 3 7/8	7 3 7/8	7 3 7/8	7 3 7/8	7 3 7/8	91.59.12	91.44.19	91.29.25	91.14.31	90.59.37	90.44.43	90.29.49	90.14.54	90.00.00	12 × 2 3/8	12 × 1 5/8
21	57 10 11/16	7 2 13/16	7 2 13/16	7 2 13/16	7 2 13/16	7 2 13/16	7 2 13/16	7 2 13/16	7 2 13/16	91.59.12	91.44.19	91.29.25	91.14.31	90.59.37	90.44.43	90.29.49	90.14.54	90.00.00	12 × 2 5/8	12 × 1 5/8
22	57 2 5/16	7 1 13/16	7 1 13/16	7 1 13/16	7 1 13/16	7 1 13/16	7 1 13/16	7 1 13/16	7 1 13/16	91.59.12	91.44.19	91.29.25	91.14.31	90.59.37	90.44.43	90.29.49	90.14.54	90.00.00	12 × 2 3/8	12 × 1 5/8
23	56 5 15/16	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	91.59.12	91.44.19	91.29.25	91.14.31	90.59.37	90.44.43	90.29.49	90.14.54	90.00.00	12 × 2 3/8	12 × 1 5/8
24	55 9 9/16	6 11 11/16	6 11 11/16	6 11 11/16	6 11 11/16	6 11 11/16	6 11 11/16	6 11 11/16	6 11 11/16	91.59.12	91.44.19	91.29.25	91.14.31	90.59.37	90.44.43	90.29.49	90.14.54	90.00.00	12 × 2 1/4	12 × 1 1/2
25	55 1 3/16	6 10 5/8	6 10 5/8	6 10 5/8	6 10 5/8	6 10 5/8	6 10 5/8	6 10 5/8	6 10 5/8	91.59.12	91.44.19	91.29.25	91.14.31	90.59.37	90.44.43	90.29.49	90.14.54	90.00.00	12 × 2 1/4	12 × 1 1/2
26	54 4 13/16	6 9 5/8	6 9 5/8	6 9 5/8	6 9 5/8	6 9 5/8	6 9 5/8	6 9 5/8	6 9 5/8	91.59.12	91.44.19	91.29.25	91.14.31	90.59.37	90.44.43	90.29.49	90.14.54	90.00.00	12 × 2 1/4	12 × 1 1/2
	8 7/16	6 8 9/16	6 8 9/16	6 8 9/16	6 8 9/16	6 8 9/16	6 8 9/16	6 8 9/16	6 8 9/16	91.59.12	91.44.19	91.29.25	91.14.31	90.59.37	90.44.43	90.29.49	90.14.54	90.00.00	12 × 2 1/8	12 × 1 3/8
28	53 1/8	6 7 1/2	6 7 1/2	6 7 1/2	6 7 1/2	6 7 1/2	6 7 1/2	6 7 1/2	6 7 1/2	91.59.12	91.44.19	91.29.25	91.14.31	90.59.37	90.44.43	90.29.49	90.14.54	90.00.00	12 × 2 0	12 × 1 3/8
29	52 3 3/4	6 6 7/16	6 6 7/16	6 6 7/16	6 6 7/16	6 6 7/16	6 6 7/16	6 6 7/16	6 6 7/16	91.59.12	91.44.19	91.29.25	91.14.31	90.59.37	90.44.43	90.29.49	90.14.54	90.00.00	12 × 2 0	12 × 1 3/8
30	51 7 3/8	6 5 7/16	6 5 7/16	6 5 7/16	6 5 7/16	6 5 7/16	6 5 7/16	6 5 7/16	6 5 7/16	91.59.12	91.44.19	91.29.25	91.14.31	90.59.37	90.44.43	90.29.49	90.14.54	90.00.00	12 × 2	12 × 1 1/4
31	50 11	6 4 3/8	6 4 3/8	6 4 3/8	6 4 3/8	6 4 3/8	6 4 3/8	6 4 3/8	6 4 3/8	91.59.12	91.44.19	91.29.25	91.14.31	90.59.37	90.44.43	90.29.49	90.14.54	90.00.00	12 × 2	12 × 1 1/4
32	50 2 5/8	6 3 5/16	6 3 5/16	6 3 5/16	6 3 5/16	6 3 5/16	6 3 5/16	6 3 5/16	6 3 5/16	91.59.12	91.44.19	91.29.25	91.14.31	90.59.37	90.44.43	90.29.49	90.14.54	90.00.00	12 × 1 7/8	12 × 1 1/8
33	49 6 1/4	6 2 5/16	6 2 5/16	6 2 5/16	6 2 5/16	6 2 5/16	6 2 5/16	6 2 5/16	6 2 5/16	91.59.12	91.44.19	91.29.25	91.14.31	90.59.37	90.44.43	90.29.49	90.14.54	90.00.00	12 × 1 7/8	12 × 1 1/8
34	48 9 7/8	6 1 1/4	6 1 1/4	6 1 1/4	6 1 1/4	6 1 1/4	6 1 1/4	6 1 1/4	6 1 1/4	91.59.12	91.44.19	91.29.25	91.14.31	90.59.37	90.44.43	90.29.49	90.14.54	90.00.00	12 × 1 7/8	12 × 1 1/8
35	48 1 1/2	6 3/16	6 3/16	6 3/16	6 3/16	6 3/16	6 3/16	6 3/16	6 3/16	91.59.12	91.44.19	91.29.25	91.14.31	90.59.37	90.44.43	90.29.49	90.14.54	90.00.00	12 × 1 3/4	12 × 1
36	47 5 3/16	5 11 1/8	5 11 1/8	5 11 1/8	5 11 1/8	5 11 1/8	5 11 1/8	5 11 1/8	5 11 1/8	91.59.12	91.44.19	91.29.25	91.14.31	90.59.37	90.44.43	90.29.49	90.14.54	90.00.00	12 × 1 3/4	12 × 1
37	46 10 3/16	5 10 1/4	5 10 1/4	5 10 1/4	5 10 1/4	5 10 1/4	5 10 1/4	5 10 1/4	5 10 1/4	91.59.12	91.44.19	91.29.25	91.14.31	90.59.37	90.44.43	90.29.49	90.14.54	90.00.00	12 × 1 5/8	12 × 7/8
38	46 4 1/2	5 9 9/16	5 9 9/16	5 9 9/16	5 9 9/16	5 9 9/16	5 9 9/16	5 9 9/16	5 9 9/16	91.59.12	91.44.19	91.29.25	91.14.31	90.59.37	90.44.43	90.29.49	90.14.54	90.00.00	12 × 1 1/2	12 × 3/4

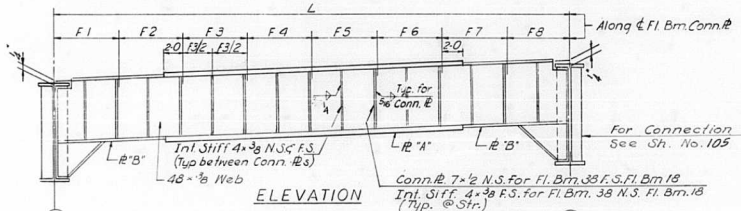
NOTES:

Length L of Fl. Bms is correct as given in the table, except the increment lengths are given to the nearest 1/16".
All dimensions are in the horizontal plane.
For Intermediate Stiffener, Brg. Stiffener and Connection Plate Details see Sh. No. 106

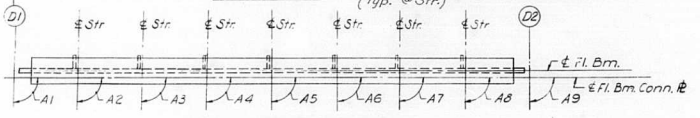
PLAN - END FL. BM. 38



PLAN

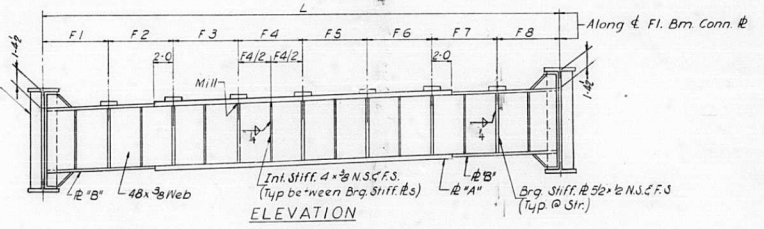


ELEVATION



PLAN END FL BM 18

END FLOOR BEAM 18 AND 38



ELEVATION

INTERIOR FLOOR BEAM 19 THRU 37

DESIGNED BY A.T.
DRAWN BY I.M.
CHECKED BY A.T.
APPROVED BY K.A.

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

FLOOR BEAM SCHEDULE

SPANS D36 THRU D39

POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

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

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

SHEET
82 OF 163

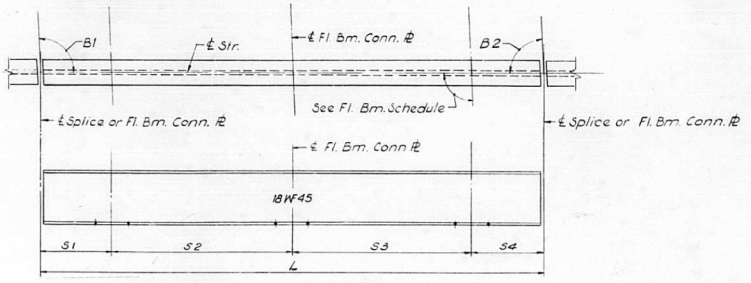
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82-3HVB-3	ST. CLAIR	262	150
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

STRINGER DIMENSIONS

STR	L	S1	S2	S3	S4	B1	B2
37	26'-10 9/16"	13'-8 1/16"	○	○	13'-2 1/2"	91°44.19"	88°15.41"
38	26 10 1/2	13 8 1/16	↓	↓	13 2 7/16	91.29.25	88.30.35
39	26 10 1/2	13 8			13 2 7/16	91.14.31	88.45.29
40	26 10 7/16	13 8			13 2 7/16	90.59.37	89.00.23
41	26 10 7/16	13 8			13 2 7/16	90.44.43	89.15.17
42	26 10 7/16	13 8			13 2 3/8	90.29.49	89.30.11
43	26 10 3/8	13 8	○		13 2 3/8	90.14.54	89.45.06
44	39 5 5/8	3 6	20 1 5/16		15 10 5/16	91.44.19	88.15.41
45	39 5 9/16	3 6	20 1 5/16		15 10 1/4	91.29.25	88.30.35
46	39 5 1/2	3 6	20 1 1/4		15 10 1/4	91.14.31	88.45.29
47	39 5 1/2	3 6	20 1 1/4		15 10 1/4	90.59.37	89.00.23
48	39 5 7/16	3 6	20 1 1/4		15 10 3/16	90.44.43	89.15.17
49	39 5 7/16	3 6	20 1 3/16		15 10 3/16	90.29.49	89.30.11
50	39 5 3/8	3 6	20 1 3/16	○	15 10 3/16	90.14.54	89.45.06
51	48 8 11/16	4 3	20 1 5/16	20 1 5/16	4 3	91.44.19	88.15.41
52	48 8 5/8	4 3	20 1 5/16	20 1 5/16	4 3	91.29.25	88.30.35
53	48 8 9/16	4 3	20 1 1/4	20 1 1/4	4 3	91.14.31	88.45.29
54	48 8 1/2	4 3	20 1 1/4	20 1 1/4	4 3	90.59.37	89.00.23
55	48 8 7/16	4 3	20 1 1/4	20 1 1/4	4 3	90.44.43	89.15.17
56	48 8 7/16	4 3	20 1 3/16	20 1 3/16	4 3	90.29.49	89.30.11
57	48 8 3/8	4 3	20 1 3/16	20 1 3/16	4 3	90.14.54	89.45.06
58	51 9 7/8	15 10 5/16	20 1 5/16	○	15 10 5/16	91.44.19	88.15.41
59	51 9 13/16	15 10 1/4	20 1 5/16	↓	15 10 1/4	91.29.25	88.30.35
60	51 9 3/4	15 10 1/4	20 1 1/4		15 10 1/4	91.14.31	88.45.29
61	51 9 11/16	15 10 1/4	20 1 1/4		15 10 1/4	90.59.37	89.00.23
62	51 9 5/8	15 10 3/16	20 1 1/4		15 10 3/16	90.44.43	89.15.17
63	51 9 5/8	15 10 3/16	20 1 3/16		15 10 3/16	90.29.49	89.30.11
64	51 9 5/8	15 10 3/16	20 1 3/16	○	15 10 3/16	90.14.54	89.45.06
65	48 8 11/16	4 3	20 1 5/16	20 1 5/16	4 3	91.44.19	88.15.41
66	48 8 5/8	4 3	20 1 5/16	20 1 5/16	4 3	91.29.25	88.30.35
67	48 8 9/16	4 3	20 1 1/4	20 1 1/4	4 3	91.14.31	88.45.29
68	48 8 1/2	4 3	20 1 1/4	20 1 1/4	4 3	90.59.37	89.00.23

STRINGER DIMENSIONS

STR	L	S1	S2	S3	S4	B1	B2
69	48'-8 7/16"	4'-3"	20'-1 1/4"	20'-1 1/4"	4'-3"	90°44.43"	89°15.17"
70	48 8 7/16	4 3	20 1 3/16	20 1 3/16	4 3	90.29.49	89.30.11
71	48 8 3/8	4 3	20 1 3/16	20 1 3/16	4 3	90.14.54	89.45.06
72	51 9 7/8	15 10 5/16	20 1 5/16	○	15 10 5/16	91.44.19	88.15.41
73	51 9 13/16	15 10 1/4	20 1 5/16	↓	15 10 1/4	91.29.25	88.30.35
74	51 9 3/4	15 10 1/4	20 1 1/4		15 10 1/4	91.14.31	88.45.29
75	51 9 11/16	15 10 1/4	20 1 1/4		15 10 1/4	90.59.37	89.00.23
76	51 9 5/8	15 10 3/16	20 1 1/4		15 10 3/16	90.44.43	89.15.17
77	51 9 5/8	15 10 3/16	20 1 3/16		15 10 3/16	90.29.49	89.30.11
78	51 9 5/8	15 10 3/16	20 1 3/16	○	15 10 3/16	90.14.54	89.45.06
79	48 8 11/16	4 3	20 1 5/16	20 1 5/16	4 3	91.44.19	88.15.41
80	48 8 5/8	4 3	20 1 5/16	20 1 5/16	4 3	91.29.25	88.30.35
81	48 8 9/16	4 3	20 1 1/4	20 1 1/4	4 3	91.14.31	88.45.29
82	48 8 1/2	4 3	20 1 1/4	20 1 1/4	4 3	90.59.37	89.00.23
83	48 8 7/16	4 3	20 1 1/4	20 1 1/4	4 3	90.44.43	89.15.17
84	48 8 7/16	4 3	20 1 3/16	20 1 3/16	4 3	90.29.49	89.30.11
85	48 8 3/8	4 3	20 1 3/16	20 1 3/16	4 3	90.14.54	89.45.06
86	39 5 5/8	15 10 5/16	20 1 5/16	○	3 6	91.44.19	88.15.41
87	39 5 9/16	15 10 1/4	20 1 5/16	↓	3 6	91.29.25	88.30.35
88	39 5 1/2	15 10 1/4	20 1 1/4		3 6	91.14.31	88.45.29
89	39 5 1/2	15 10 1/4	20 1 1/4		3 6	90.59.37	89.00.23
90	39 5 7/16	15 10 3/16	20 1 1/4		3 6	90.44.43	89.15.17
91	39 5 7/16	15 10 3/16	20 1 3/16		3 6	90.29.49	89.30.11
92	39 5 3/8	15 10 3/16	20 1 3/16		3 6	90.14.54	89.45.06
93	26 10 9/16	13 2 1/2	○		13 8 1/16	91.44.19	88.15.41
94	26 10 1/2	13 2 7/16	↓		13 8 1/16	91.29.25	88.30.35
95	26 10 1/2	13 2 7/16			13 8	91.14.31	88.45.29
96	26 10 7/16	13 2 7/16			13 8	90.59.37	89.00.23
97	26 10 7/16	13 2 7/16			13 8	90.44.43	89.15.17
98	26 10 7/16	13 2 3/8			13 8	90.29.49	89.30.11
99	26 10 3/8	13 2 3/8	○	○	13 8	90.14.54	89.45.06



TYPICAL STRINGER

NOTES:
Length L of Stringer is correct as given in the table, except the increment lengths are given to the nearest 1/16".
All dimensions are in the horizontal plane.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
STRINGER SCHEDULE
SPANS D36 THRU D39
POPLAR STREET BRIDGE APPROACHES
ROADWAY "b"
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-3
H. W. LOCHNER, INC. ENGINEERS
CHICAGO, ILLINOIS
SHEET 83 OF 163

DESIGNED BY A.T.
DRAWN BY I.M.
CHECKED BY A.T.
APPROVED BY K.A.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. – 70	82–3HVB–3	ST. CLAIR	262	151
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

FLOOR BEAM 19	T1	T2	T3	T4
STR.				
37	1 3/8	1 1/2	3/8	1/2
38	1 5/16	1 1/2	3/8	9/16
39	1 5/16	1 7/16	7/16	9/16
40	1 1/4	1 3/8	1/2	5/8
41	1 1/4	1 3/8	1/2	5/8
42	1 3/16	1 5/16	9/16	11/16
43	1 3/16	1 5/16	9/16	11/16

FLOOR BEAM 20	T1	T2	T3	T4
STR.				
44	1 3/8	1 1/2	3/8	1/2
45	1 3/8	1 7/16	7/16	1/2
46	1 5/16	1 7/16	7/16	9/16
47	1 5/16	1 3/8	1/2	9/16
48	1 1/4	1 5/16	9/16	5/8
49	1 1/4	1 5/16	9/16	5/8
50	1 3/16	1 1/4	5/8	11/16

FLOOR BEAM 21	T1	T2	T3	T4
STR.				
44	1 7/16	1 7/16	7/16	7/16
45	1 3/8	1 7/16	7/16	1/2
46	1 3/8	1 3/8	1/2	1/2
47	1 7/16	1 3/8	1/2	9/16
48	1 5/16	1 5/16	9/16	9/16
49	1 1/4	1 1/4	5/8	5/8
50	1 1/4	1 1/4	5/8	5/8

FLOOR BEAM 22	T1	T2	T3	T4
STR.				
51	1 3/8	1 5/16	9/16	1/2
52	1 5/16	1 5/16	9/16	9/16
53	1 5/16	1 5/16	9/16	9/16
54	1 5/16	1 1/4	5/8	9/16
55	1 5/16	1 1/4	5/8	9/16
56	1 5/16	1 1/4	5/8	9/16
57	1 5/16	1 1/4	5/8	9/16

FLOOR BEAM 23	T1	T2	T3	T4
STR.				
51	1 3/8	1 5/16	9/16	1/2
52	1 3/8	1 5/16	9/16	1/2
53	1 5/16	1 1/4	5/8	9/16
54	1 5/16	1 1/4	5/8	9/16
55	1 5/16	1 1/4	5/8	9/16
56	1 5/16	1 1/4	5/8	9/16
57	1 5/16	1 1/4	5/8	9/16

FLOOR BEAM 24	T1	T2	T3	T4
STR.				
51	1 3/8	1 5/16	9/16	1/2
52	1 3/8	1 1/4	5/8	1/2
53	1 3/8	1 1/4	5/8	1/2
54	1 5/16	1 1/4	5/8	9/16
55	1 5/16	1 1/4	5/8	9/16
56	1 5/16	1 1/4	5/8	9/16
57	1 5/16	1 1/4	5/8	9/16

FLOOR BEAM 25	T1	T2	T3	T4
STR.				
58	1 1/4	1 3/16	11/16	5/8
59	1 1/4	1 3/16	11/16	5/8
60	1 1/4	1 3/16	11/16	5/8
61	1 5/16	1 3/16	11/16	9/16
62	1 5/16	1 3/16	11/16	9/16
63	1 5/16	1 3/16	11/16	9/16
64	1 5/16	1 1/4	5/8	9/16

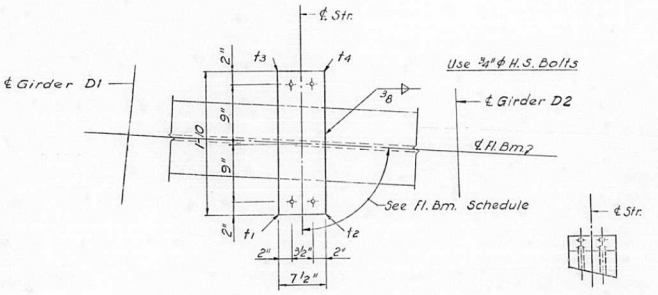
FLOOR BEAM 26	T1	T2	T3	T4
STR.				
58	1 1/4	1 3/16	11/16	5/8
59	1 1/4	1 3/16	11/16	5/8
60	1 1/4	1 3/16	11/16	5/8
61	1 5/16	1 3/16	11/16	9/16
62	1 5/16	1 3/16	11/16	9/16
63	1 5/16	1 1/4	5/8	9/16
64	1 5/16	1 1/4	5/8	9/16

FLOOR BEAM 27 THRU 29	T1	T2	T3	T4
STR. 65 THRU 71	1 5/16	1 1/4	5/8	9/16

FLOOR BEAM 30 THRU 31	T1	T2	T3	T4
STR. 72 THRU 78	1 5/16	1 1/4	5/8	9/16

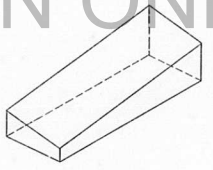
FLOOR BEAM 32 THRU 34	T1	T2	T3	T4
STR. 79 THRU 85	1 5/16	1 1/4	5/8	9/16

FLOOR BEAM 35 THRU 37	T1	T2	T3	T4
STR. 86 THRU 99	1 5/16	1 1/4	5/8	9/16

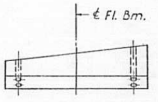


PLAN

END VIEW



ISOMETRIC VIEW



SIDE VIEW

SHIM DETAIL

Shim thickness t1, t2, t3 & t4 shown in the Table are orientated with the Plan View shown above.

DESIGNED BY A.T.
DRAWN BY I.M.
CHECKED BY A.T.
APPROVED BY K.A.

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

STRINGER SHIMS

SPANS D36 THRU 39

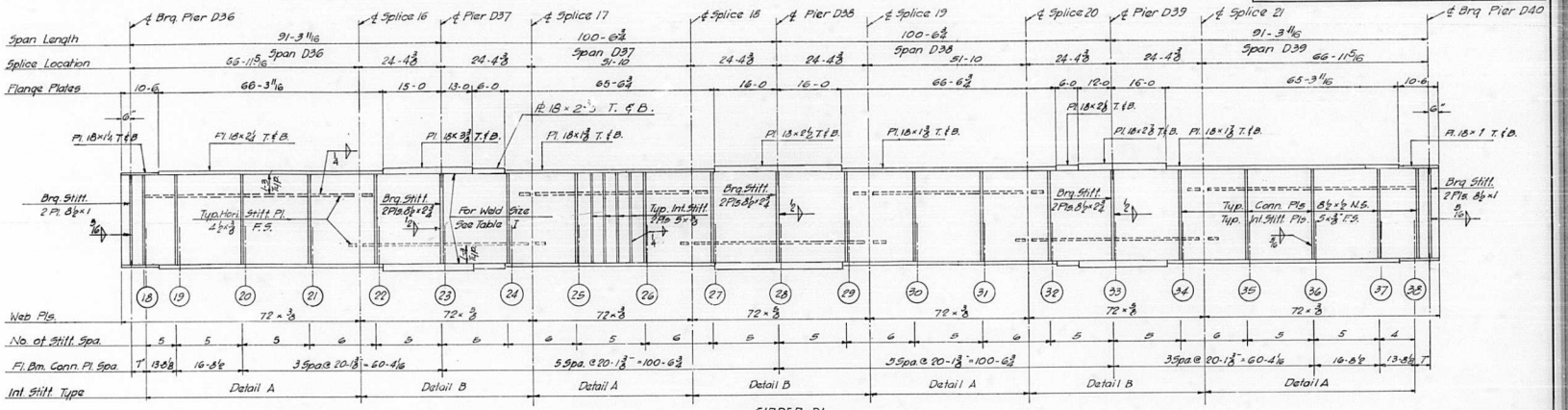
POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

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

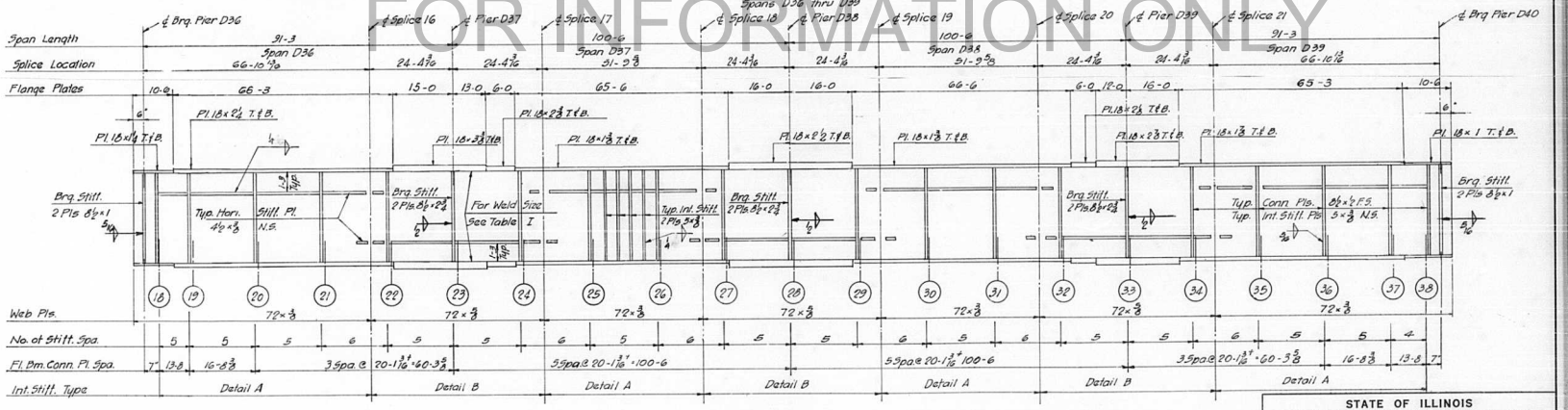
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET
84 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVB-3	ST. CLAIR	262	152
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



GIRDER D1
Spans D36 thru D39



GIRDER D2
Spans D36 thru D39

NOTES:
All Longitudinal Dimensions shown are given along ℄ of web. See Sheet No. 81
All Bearing Stiffeners and Connection Plates to be vertical.
For Splice, Stiffener, Connection Plate Details and Table I see Sheet No. 105, 106, & 107

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

GIRDERS D1 AND D2

SPANS D36 THRU D39

POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

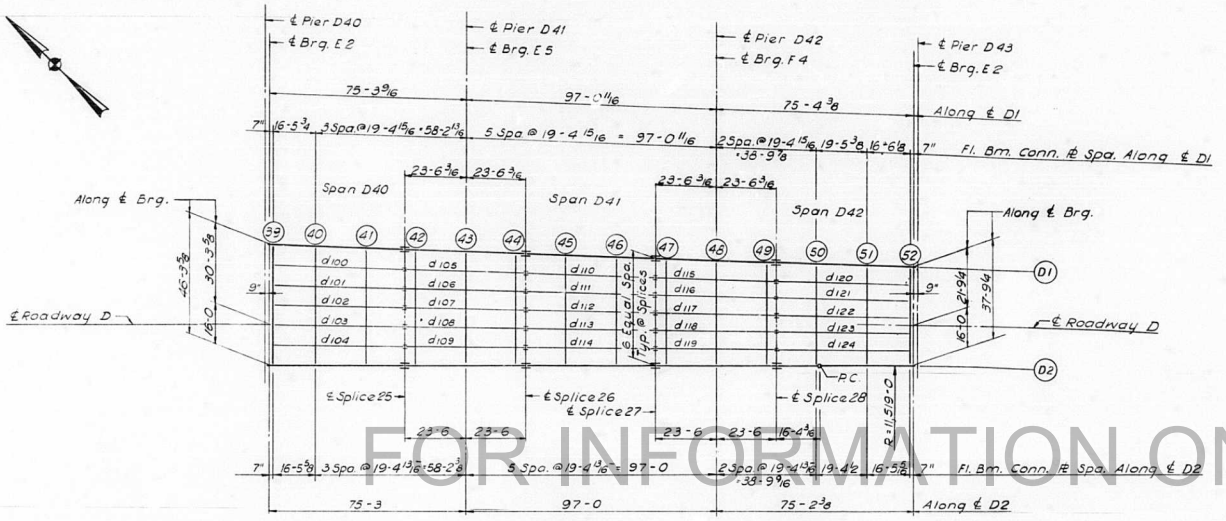
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-3

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

SHEET 85 OF 163

DESIGNED BY A.T.
DRAWN BY V.F.
CHECKED BY A.T.
APPROVED BY K.A.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	153
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	



PLAN

SPANS D40 THRU D42

ELEVATION TOP OF GIRDER WEB

		GIR. D1	GIR. D2	DIFF.
CL. BRG.		440.352	440.650	.298
FLOOR BEAM	39	440.335	440.633	.298
FLOOR BEAM	40	439.853	440.139	.285
FLOOR BEAM	41	439.285	439.556	.271
SPLICE	25	438.837	439.097	.260
FLOOR BEAM	42	438.717	438.974	.257
FLOOR BEAM	43	438.149	438.392	.243
FLOOR BEAM	44	437.581	437.810	.229
SPLICE	26	437.461	437.687	.226
FLOOR BEAM	45	437.013	437.228	.215
FLOOR BEAM	46	436.445	436.646	.201
SPLICE	27	435.997	436.187	.190
FLOOR BEAM	47	435.877	436.064	.187
FLOOR BEAM	48	435.309	435.482	.173
FLOOR BEAM	49	434.741	434.900	.159
SPLICE	28	434.621	434.777	.156
FLOOR BEAM	50	434.173	434.318	.145
FLOOR BEAM	51	433.604	433.736	.132
FLOOR BEAM	52	433.121	433.243	.121
CL. BRG.		433.104	433.225	.121

Note

Dimensions locating Floor Beams are given to the Floor Beam Conn. Plate See Sketch Sheet No. 60

BILL OF MATERIAL		
*Structural Steel	Lbs.	347,470

* Weight of Bearing Assemblies with Lead Plates and Anchor Bolts are Included as Structural Steel Est. Wt. 9540 Lbs.

DESIGNED BY A.T.
DRAWN BY I.M.
CHECKED BY A.T.
APPROVED BY K.A.

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

FRAMING PLAN
SPANS D40 THRU D42
POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-3

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

SHEET
86 OF 163

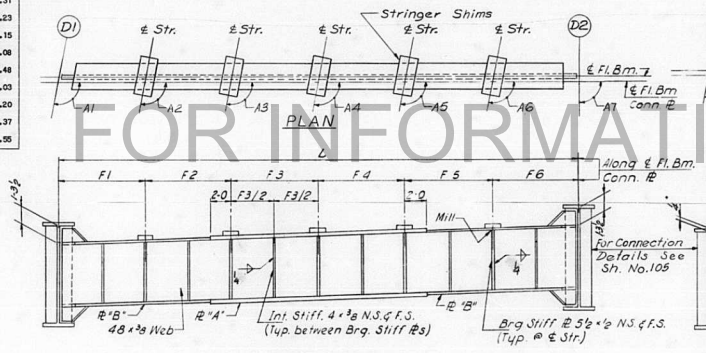
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82-3HVB—3	ST. CLAIR	262	154
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

STRINGER DIMENSIONS

STR	L	S1	S2	S3	S4	B1	B2
100	51'- 2 1/4"	16'- 5 11/16"	○	19'- 4 7/8"	15'- 3 11/16"	91.39.21'	88.20.39'
101	51 2 3/16	16 5 5/8	|	19 4 7/8	15 3 5/8	91.19.29	88.40.31
102	51 2 1/16	16 5 5/8	|	19 4 13/16	15 3 5/8	90.59.37	89.00.23
103	51 2 1/16	16 5 5/8	|	19 4 13/16	15 3 5/8	90.39.45	89.20.15
104	51 2	16 5 9/16	○	19 4 13/16	15 3 5/8	90.19.52	89.40.08
105	47 1/4	4 1 1/4	19 4 7/8	19 4 7/8	4 1 1/4	91.39.21	88.20.39
106	1/8	4 1 3/16	19 4 7/8	19 4 7/8	4 1 3/16	91.19.29	88.40.31
107	47 1/16	4 1 3/16	19 4 13/16	19 4 13/16	4 1 3/16	90.59.37	89.00.23
108	47 1/16	4 1 3/16	19 4 13/16	19 4 13/16	4 1 3/16	90.39.45	89.20.15
109	47	4 1 3/16	19 4 13/16	19 4 13/16	4 1 3/16	90.19.52	89.40.08
110	50 1/4	15 3 11/16	19 4 7/8	○	15 3 11/16	91.39.21	88.20.39
111	50 3/16	15 3 5/8	19 4 7/8	|	15 3 5/8	91.19.29	88.40.31
112	50 1/16	15 3 5/8	19 4 13/16	|	15 3 5/8	90.59.37	89.00.23
113	50 1/16	15 3 5/8	19 4 13/16	|	15 3 5/8	90.39.45	89.20.15
114	50	15 3 5/8	19 4 13/16	○	15 3 5/8	90.19.52	89.40.08
115	47 1/4	4 1 1/4	19 4 7/8	19 4 7/8	4 1 1/4	91.39.21	88.20.39
116	47 1/8	4 1 3/16	19 4 7/8	19 4 7/8	4 1 3/16	91.19.29	88.40.31
117	47 1/16	4 1 3/16	19 4 13/16	19 4 13/16	4 1 3/16	90.59.37	89.00.23
118	47 1/16	4 1 3/16	19 4 13/16	19 4 13/16	4 1 3/16	90.39.45	89.20.15
119	47	4 1 3/16	19 4 13/16	19 4 13/16	4 1 3/16	90.19.52	89.40.08
120	51 2 13/16	15 3 11/16	19 5 3/16	○	16 5 15/16	91.39.58	88.30.48
121	51 2 1/2	15 3 5/8	19 5 1/16	|	16 5 13/16	91.20.43	88.50.03
122	51 2 3/16	15 3 5/8	19 4 7/8	|	16 5 11/16	91.01.27	89.09.20
123	51 1 15/16	15 3 5/8	19 4 3/4	|	16 5 9/16	90.42.10	89.28.37
124	51 1 5/8	15 3 5/8	19 4 5/8	○	16 5 7/16	90.22.51	89.47.55

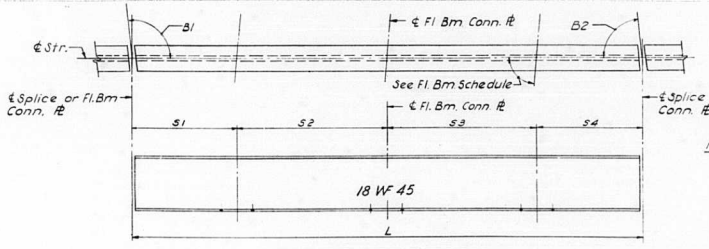
FLOOR BEAM DIMENSIONS

FL BM	L	F1	F2	F3	F4	F5	F6	A1	A2	A3	A4	A5	A6	A7	Plate A Top f Bm.	Plate B Top f Bm.
39	46'- 3 7/16"	7'- 8 9/16"	7'- 8 9/16"	7'- 8 9/16"	7'- 8 9/16"	7'- 8 9/16"	7'- 8 9/16"	91.59.12'	91.39.21'	91.19.29'	90.59.37'	90.39.45'	90.19.52'	90.00.00'	12 × 1 5/8	12 × 1
40	45 8 9/16	7 7 7/16	7 7 7/16	7 7 7/16	7 7 7/16	7 7 7/16	7 7 7/16	91.59.12	91.39.21	91.19.29	90.59.37	90.39.45	90.19.52	90.00.00	12 × 1 5/8	12 × 1 1/4
41	45 1/2	7 6 1/16	7 6 1/16	7 6 1/16	7 6 1/16	7 6 1/16	7 6 1/16	91.59.12	91.39.21	91.19.29	90.59.37	90.39.45	90.19.52	90.00.00	12 × 1 5/8	12 × 1 1/4
42	44 4 3/8	7 4 3/4	7 4 3/4	7 4 3/4	7 4 3/4	7 4 3/4	7 4 3/4	91.59.12	91.39.21	91.19.29	90.59.37	90.39.45	90.19.52	90.00.00	12 × 1 5/8	12 × 1 1/4
43	43 8 5/16	7 3 3/8	7 3 3/8	7 3 3/8	7 3 3/8	7 3 3/8	7 3 3/8	91.59.12	91.39.21	91.19.29	90.59.37	90.39.45	90.19.52	90.00.00	12 × 1 1/2	12 × 1 1/8
44	43 1/4	7 2 1/16	7 2 1/16	7 2 1/16	7 2 1/16	7 2 1/16	7 2 1/16	91.59.12	91.39.21	91.19.29	90.59.37	90.39.45	90.19.52	90.00.00	12 × 1 1/2	12 × 1 1/8
45	42 4 3/16	7 11/16	7 11/16	7 11/16	7 11/16	7 11/16	7 11/16	91.59.12	91.39.21	91.19.29	90.59.37	90.39.45	90.19.52	90.00.00	12 × 1 1/2	12 × 1 1/8
46	41 8 1/8	6 11 3/8	6 11 3/8	6 11 3/8	6 11 3/8	6 11 3/8	6 11 3/8	91.59.12	91.39.21	91.19.29	90.59.37	90.39.45	90.19.52	90.00.00	12 × 1 1/2	12 × 1 1/8
47	41	6 10	6 10	6 10	6 10	6 10	6 10	91.59.12	91.39.21	91.19.29	90.59.37	90.39.45	90.19.52	90.00.00	12 × 1 5/8	12 × 1
48	40 3 15/16	6 8 11/16	6 8 11/16	6 8 11/16	6 8 11/16	6 8 11/16	6 8 11/16	91.59.12	91.39.21	91.19.29	90.59.37	90.39.45	90.19.52	90.00.00	12 × 1 5/8	12 × 1
49	39 7 7/8	6 7 5/16	6 7 5/16	6 7 5/16	6 7 5/16	6 7 5/16	6 7 5/16	91.59.12	91.39.21	91.19.29	90.59.37	90.39.45	90.19.52	90.00.00	12 × 1 5/8	12 × 1
50	38 11 13/16	6 6	6 6	6 6	6 6	6 6	6 6	91.59.12	91.39.58	91.20.43	91.01.27	90.42.10	90.22.51	90.00.00	12 × 1 5/8	12 × 1
51	38 3 7/8	6 4 11/16	6 4 11/16	6 4 11/16	6 4 11/16	6 4 11/16	6 4 11/16	91.59.12	91.34.30	91.15.15	90.55.59	90.36.41	90.17.23	90.00.00	12 × 1 1/4	12 × 1 5/8
52	37 9 1/2	6 3 9/16	6 3 9/16	6 3 9/16	6 3 9/16	6 3 9/16	6 3 9/16	91.48.26	91.29.12	91.09.57	90.50.40	90.31.23	90.12.05	89.59.36	12 × 1 1/4	12 × 1 5/8

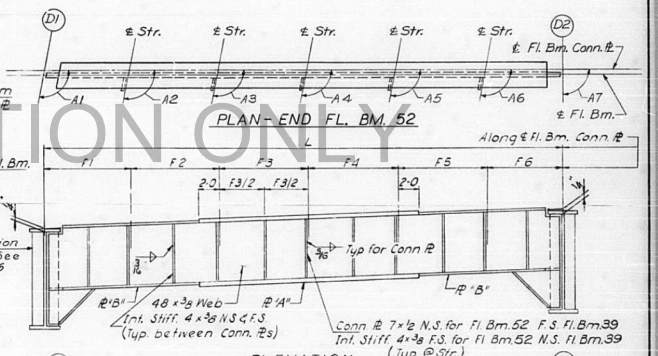


ELEVATION

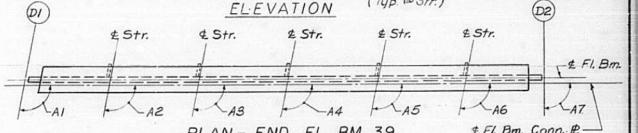
INTERIOR FLOOR BEAM 40 THRU 51



TYPICAL STRINGER



ELEVATION



END FLOOR BEAM 39 AND 52

Notes:

Length L of Stringers and Fl. Bms. is correct as given in the table except the increment lengths are given to the nearest 1/16":
All dimensions are in the horizontal plane.
For Intermediate Stiffener, End Stiffener and Connection Plate Details see Sh. No. 106

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

STRINGER AND FLOOR BEAM SCHEDULE
SPANS D40 THRU D 42
POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

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

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

SHEET 97 OF 163

SIGNED BY A.T.
AWN BY I.M.
ECKED BY S.A.B.
PROVED BY K.A.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. – 70	82-3HVB – 3	ST. CLAIR	262	155
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

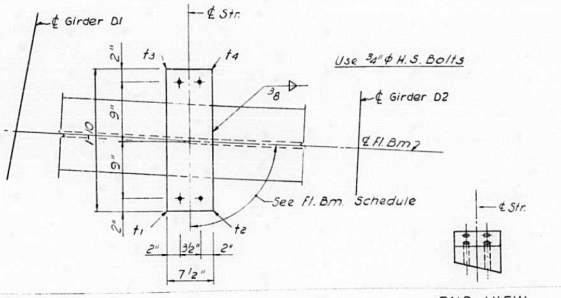
FLOOR BEAM 40 ℄ 41	T1	T2	T3	T4
STR. 100 THRU 104	1 1/8	1 1/16	7/16	3/8

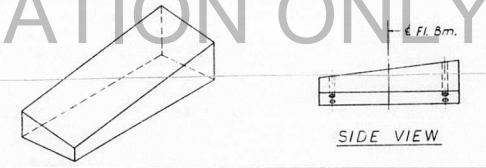
FLOOR BEAM 42 THRU 44	T1	T2	T3	T4
STR. 105 THRU 109	1 1/8	1 1/16	7/16	3/8

FLOOR BEAM 45 THRU 46	T1	T2	T3	T4
STR. 110 THRU 114	1 1/16	1 1/16	7/16	7/16

FLOOR BEAM 47 THRU 49	T1	T2	T3	T4
STR. 115 THRU 119	1 1/16	1 1/16	7/16	7/16

FLOOR BEAM 50 ℄ 51	T1	T2	T3	T4
STR. 120 THRU 124	1 1/16	1 1/16	7/16	7/16





ISOMETRIC VIEW

SHIM DETAIL

Shim thickness t1, t2, t3 & t4 shown in the Table are orientated with the Plan View shown above.

DRAWN BY A.T.
TRACED BY I.M.
CHECKED BY A.T.
APPROVED BY R.A.

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

STRINGER SHIMS

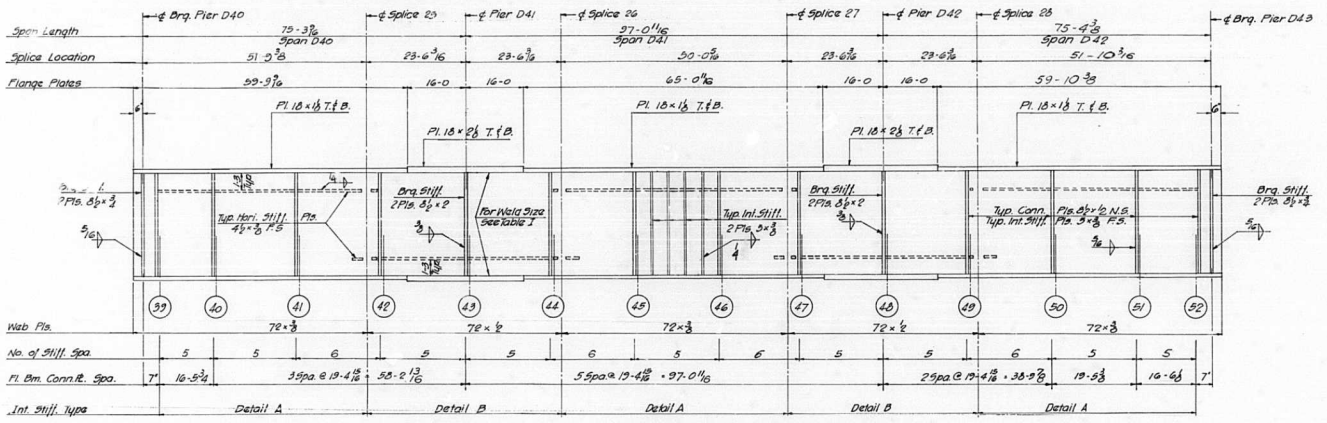
SPANS D40 THRU D42
POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

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

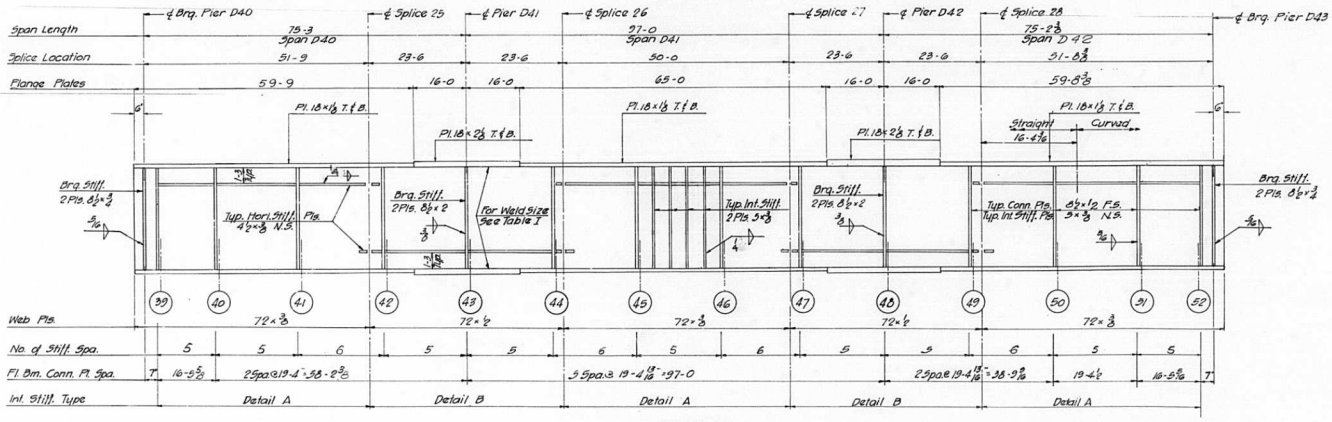
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 88 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	156
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



GIRDER D1
Spans D40 thru D42



GIRDER D2
Spans D40 thru D42

NOTES:
All longitudinal dimensions shown are given along ℄ of web see Sheet No. 86
All Bearing Stiffeners and Connection Plates to be vertical.
For Splice, Stiffener, Connection Plate Details and Table I see Sheet No. 106, 106, & 107

DESIGNED BY A.T.
DRAWN BY V.C.
CHECKED BY A.T.
APPROVED BY K.A.

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

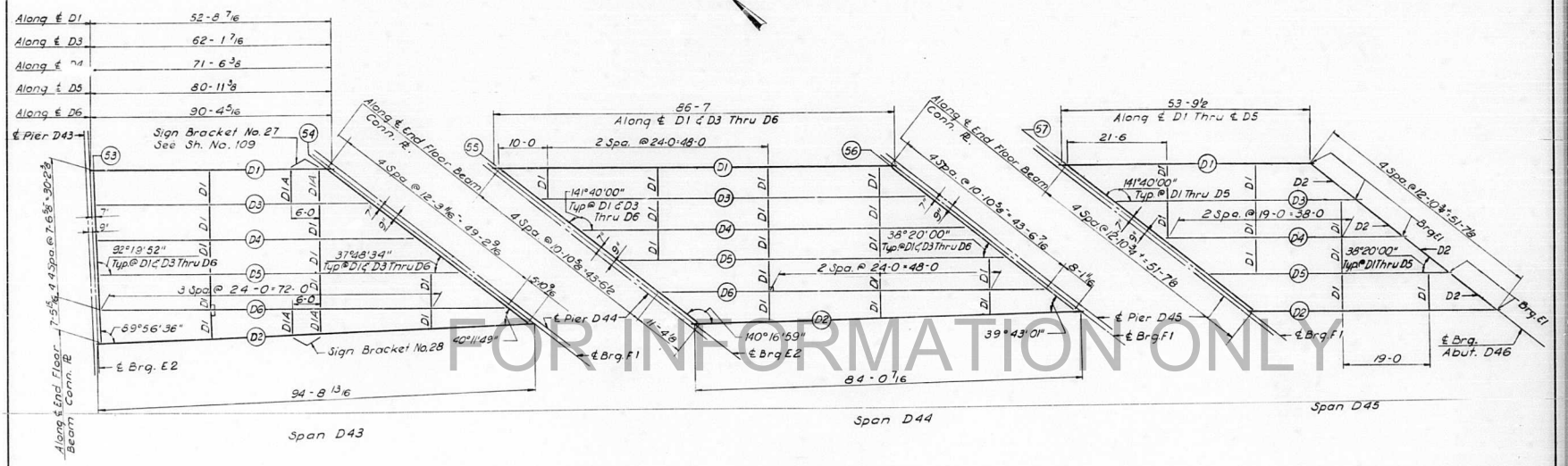
GIRDERS D1 AND D2
SPANS D40 THRU D42
POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

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

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

SHEET 89 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82-3HVB-3	ST. CLAIR	262	157
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



ELEVATION TOP OF GIRDER WEB SPAN D43
ELEVATION TOP OF FLANGE SPANS D44 & D45

		GIR. D1	GIR. D2	DIFF.
CL. BRG.		433.061	433.180	.119
FLOOR BEAM	53	433.044	433.163	.119
FLOOR BEAM	54	431.554	430.371	1.183
CL. BRG.		431.526	430.344	1.182
CL. BRG.		431.663	430.483	1.180
FLOOR BEAM	55	431.635	430.456	1.179
FLOOR BEAM	56	429.139	427.993	1.146
CL. BRG.		429.112	427.967	1.145
CL. BRG.		429.061	427.895	1.166
FLOOR BEAM	57	429.013	427.866	1.147
CL. BRG.		427.448	426.264	1.184

PLAN

SPANS D43 THRU D45

BILL OF MATERIAL		
*Structural Steel	Lbs.	355,670

*Weight of Bearing Assemblies with Lead Plates and Anchor Bolts are Included as Structural Steel Est. Wt. 11,930 Lbs.

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

FRAMING PLAN

SPANS D43 THRU D45

POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

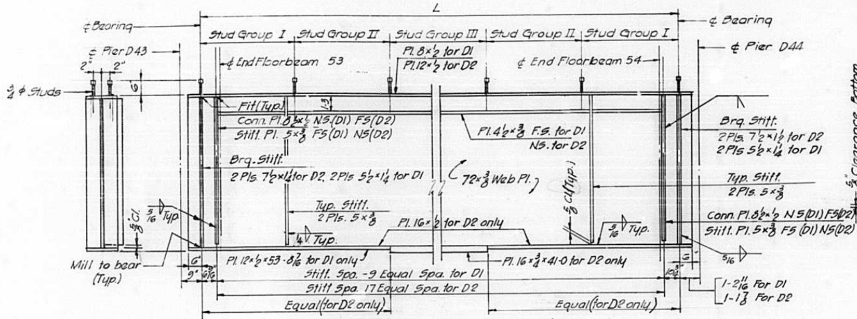
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB--3

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

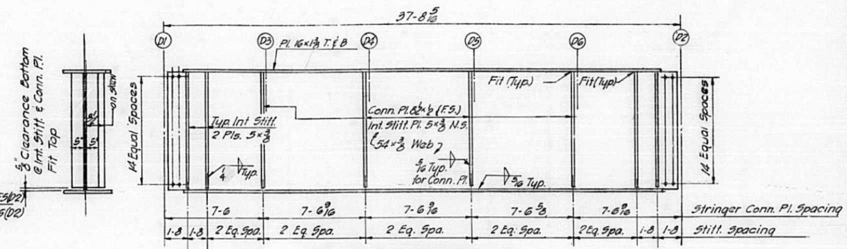
SHEET 90 OF 163

DESIGNED BY A.T.
DRAWN BY I.M.
CHECKED BY A.T.
APPROVED BY K.A.

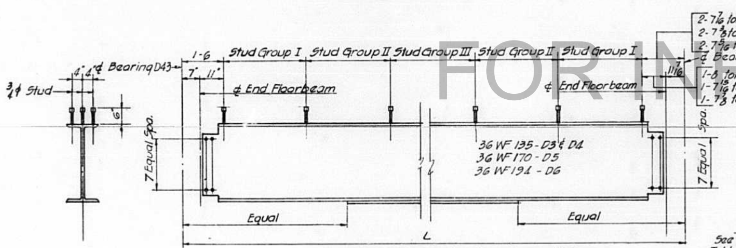
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	158
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



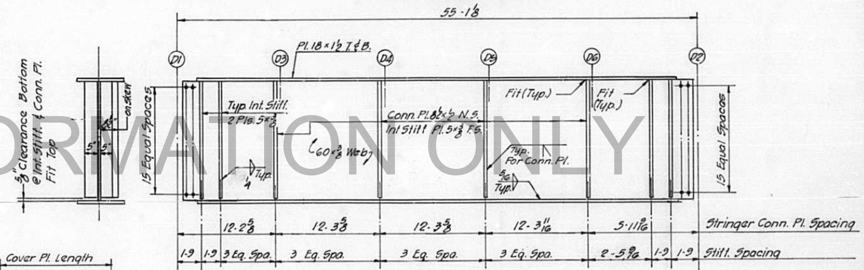
EXTERIOR STRINGER D1 & D2
SPAN D43



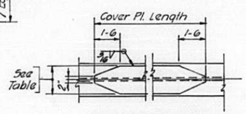
END FLOORBEAM 53



INTERIOR STRINGER D3, D4, D5, & D6
SPAN D43

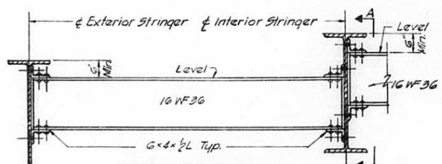


END FLOORBEAM 54

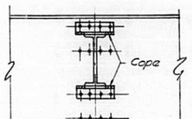


COVER PLATE DETAIL

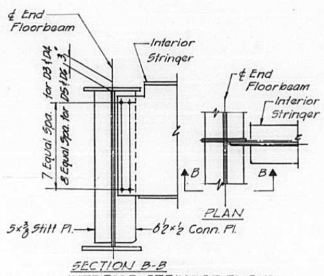
STRINGER & COVER PL. LENGTHS - SHEAR CONN. SPACING					
STRINGER	LENGTH (L)	BOTTOM COVER PL.	STUD GROUP I	STUD GROUP II	STUD GROUP III
D1	52-8 7/16	See Stringer Detail	12 Spa. @ 11"	7 Spa. @ 16"	6 Spa. @ 24"
D2	94-8 13/16		24 Spa. @ 11"	11 Spa. @ 17"	10 Spa. @ 23"
D3	62-1 7/16	11×5/8×45-0	28 Spa. @ 4 3/4"	20 Spa. @ 7"	16 Spa. @ 9 1/2"
D4	71-6 3/8	11×1 1/8×57-0	32 Spa. @ 4 3/4"	24 Spa. @ 7"	17 Spa. @ 9 1/2"
D5	80-11 3/8	11×1 3/8×63-0	31 Spa. @ 5"	27 Spa. @ 7"	24 Spa. @ 10"
D6	90-4 5/16	11×1 3/4×70-6	32 Spa. @ 5 1/4"	24 Spa. @ 7 1/2"	34 Spa. @ 10"



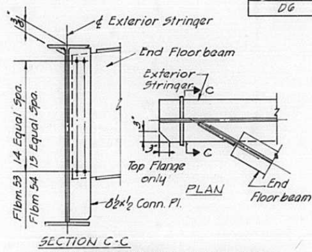
DIAPHRAGM DETAILS
Typ. Connection for Interior Diaphragm D1



SECTION A-A



SECTION B-B
INTERIOR STRINGER TO END FLOORBEAM CONNECTION



SECTION C-C
END FLOORBEAM TO EXTERIOR STRINGER CONNECTION

FOR INFORMATION ONLY

DESIGNED BY A.T.
DRAWN BY V.T.
CHECKED BY A.T.
APPROVED BY K.A.

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

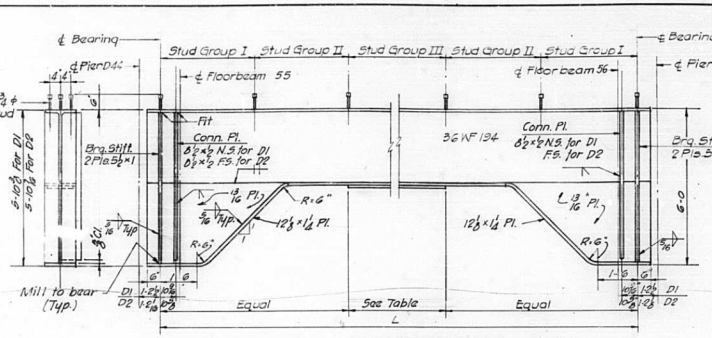
STEEL DETAILS
SPAN D43
POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

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

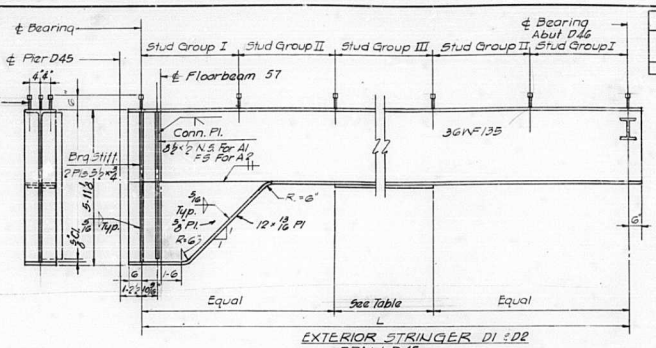
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 91 of 103

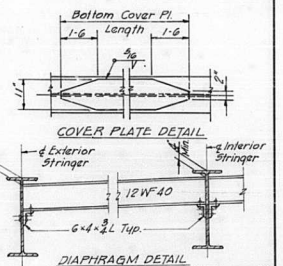
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	159
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



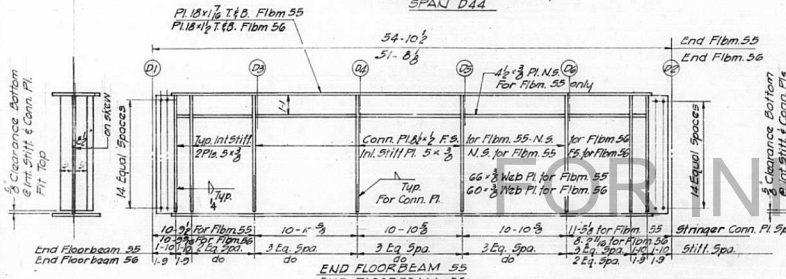
EXTERIOR STRINGER D1 & D2
SPAN D44



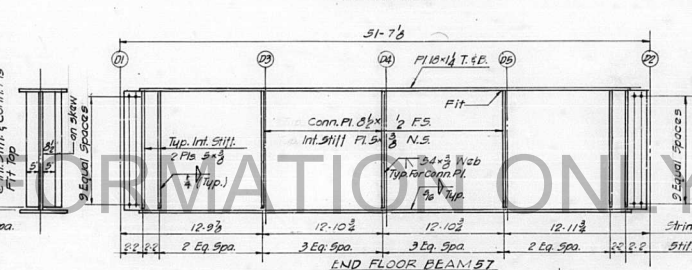
EXTERIOR STRINGER D1 & D2
SPAN D45



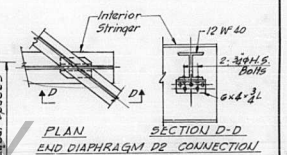
DIAPHRAGM DETAIL
Typ Connection for End Diaphragm D2

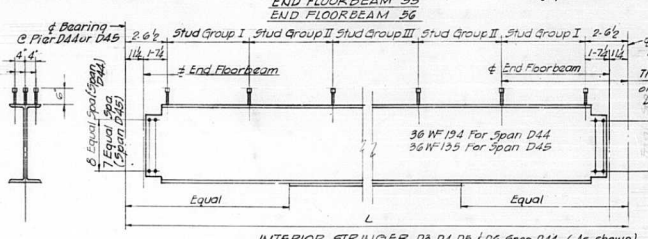


END FLOORBEAM 55
END FLOORBEAM 56

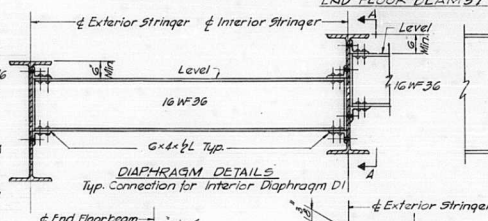


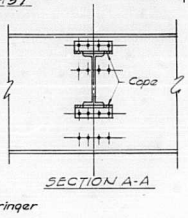
END FLOOR BEAM 57



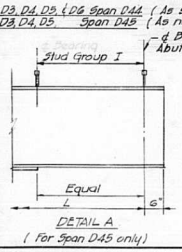


INTERIOR STRINGER D3, D4, D5 & D6 Span D44 (As shown)
INTERIOR STRINGER D3, D4, D5 Span D45 (As noted)

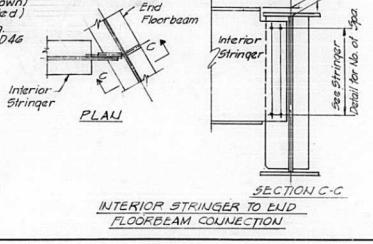


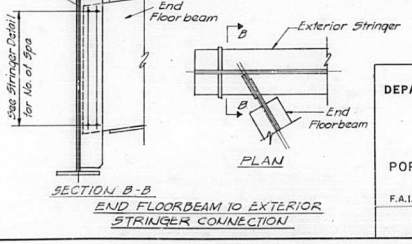


STRINGER & COVER PL. LENGTHS - SHEAR CONN. SPACING						
STRINGER Span D44	Span D45	LENGTH	BOTTOM COVER PL.	STUD GROUP I	STUD GROUP II	STUD GROUP III
D1	-	86-7	1 1/16 × 62-0	235 spa @ 9"	135 spa @ 14"	13 spa @ 20"
D2	-	84-0 7/16	1 1/16 × 59-6	"	"	105 spa @ 23"
D3	-	86-7	1 1/16 × 69-0	285 spa @ 9½"	235 spa @ 12"	215 spa @ 9½"
D4	-	86-7	"	"	"	"
D5	-	86-7	"	"	"	"
D6	-	86-7	"	"	"	"
-	D1	53-3½	1 1/16 × 37-0	125 spa @ 10"	105 spa @ 15"	55 spa @ 20"
-	D2	53-3½	"	"	"	"
-	D3	53-3½	"	265 spa @ 4"	215 spa @ 6"	165 spa @ 8"
-	D4	53-3½	"	"	"	"
-	D5	53-3½	"	"	"	"



DETAIL A
(For Span D45 only)





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

STEEL DETAILS

SPANS D44 AND D45

POPLAR STREET BRIDGE APPROACHES

ROADWAY "D"

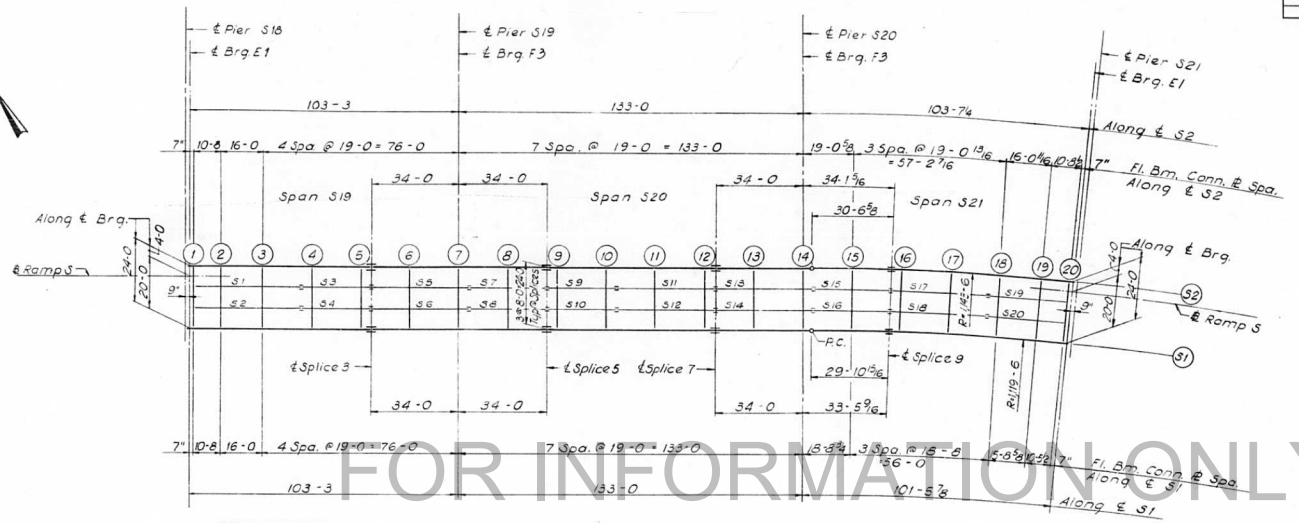
F.A.I. RT. 70 ST. CLAIR CO SECTION 82-3HVB-3

DESIGNED BY	A.T.
DRAWN BY	V.T.
CHECKED BY	A.T.
APPROVED BY	K.A.

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

SHEET 92 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVB-3	ST. CLAIR	262	160
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



ELEVATION TOP OF GIRDER WEB

		GIR. S2	GIR. S1	DIFF.
CL. BRG.		487.042	487.834	.792
FLOOR BEAM	1	487.018	487.805	.786
FLOOR BEAM	2	486.578	487.273	.695
FLOOR BEAM	3	485.918	486.474	.556
FLOOR BEAM	4	485.134	485.526	.392
FLOOR BEAM	5	484.349	484.578	.229
SPLICE	3	484.184	484.378	.194
FLOOR BEAM	6	483.451	483.516	.064
FLOOR BEAM	7	482.522	482.423	.099
FLOOR BEAM	8	481.594	481.330	.264
SPLICE	5	480.860	480.467	.393
FLOOR BEAM	9	480.636	480.208	.428
FLOOR BEAM	10	479.569	478.977	.592
FLOOR BEAM	11	478.502	477.746	.756
FLOOR BEAM	12	477.435	476.514	.921
SPLICE	7	477.210	476.255	.955
FLOOR BEAM	13	476.335	475.232	1.103
FLOOR BEAM	14	475.226	473.935	1.291
FLOOR BEAM	15	474.114	472.657	1.457
SPLICE	9	473.235	471.651	1.584
FLOOR BEAM	16	472.998	471.395	1.603
FLOOR BEAM	17	471.874	470.178	1.696
FLOOR BEAM	18	470.749	468.961	1.788
FLOOR BEAM	19	469.801	467.936	1.865
FLOOR BEAM	20	469.170	467.254	1.916
CL. BRG.		469.130	467.216	1.914

PLAN

SPANS S19 THRU S21

Note

Dimensions locating Floor Beams are given to the Floor Beam Conn. Plate see Sketch Sheet No. 60

BILL OF MATERIAL		
*Structural Steel	Lbs.	367270

*Weight of Bearing Assemblies with Lead Plates and Anchor Bolts are Included as Structural Steel Est. Wt. 6780 Lbs

DESIGNED BY A.T.
DRAWN BY I.M.
CHECKED BY S.A.B.
APPROVED BY K.A.

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

FRAMING PLAN

SPANS S19 THRU S21

POPLAR STREET BRIDGE APPROACHES

RAMP "S"

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

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

SHEET 93 OF 163

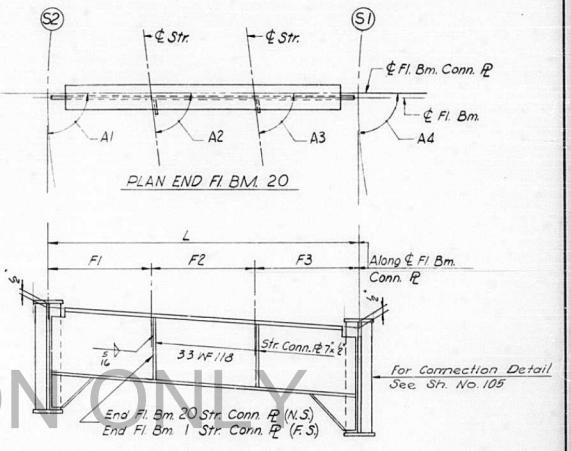
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.– 70	82-3HVB – 3	ST. CLAIR	262	161
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

STRINGER DIMENSIONS

STR	L	S1	S2	S3	B1	B2
1	41'-8"	10'-8"	16'-0"	15'-0"	90°00'.00"	90°00'.00"
2	41 8	10 8	16	15	90.00.00	90.00.00
3	27	4	19	4	90.00.00	90.00.00
4	27	4	19	4	90.00.00	90.00.00
5	38	15	19	4	90.00.00	90.00.00
6	38	15	19	4	90.00.00	90.00.00
7	30	15	0	15	90.00.00	90.00.00
8	30	15	0	15	90.00.00	90.00.00
9	27	4	19	4	90.00.00	90.00.00
10	27	4	19	4	90.00.00	90.00.00
1.	38	15	19	4	90.00.00	90.00.00
12	38	15	19	4	90.00.00	90.00.00
13	38	15	19	4	90.00.00	90.01.20
14	37 11 15/16	15	19	3 11 15/16	90.00.00	90.01.20
15	29 10 3/4	14 11 3/8	0	14 11 3/8	90.45.15	90.45.15
16	29 8 3/16	14 10 1/8	0	14 10 1/8	90.45.15	90.45.15
17	37 10 3/8	3 11 13/16	18 11 3/16	14 11 3/8	90.57.19	90.57.19
18	37 7 3/16	3 11 1/2	18 9 9/16	14 10 1/8	90.57.19	90.57.19
19	32 6 5/8	3 11 13/16	15 11 5/16	10 7 1/2	90.46.15	90.50.17
20	30 3 15/16	3 11 1/2	15 9 15/16	10 6 1/2	90.46.14	90.50.18

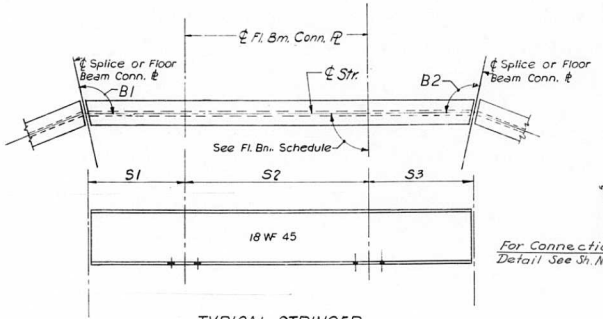
FLOOR BEAM DIMENSIONS

FL BM	L	F1	F2	F3	A1	A2	A3	A4
1	24'-0"	8'-0"	8'-0"	8'-0"	90°00'.00"	90°00'.00"	90°00'.00"	90°00'.00"
2	24	8	8	8	90.00.00	90.00.00	90.00.00	90.00.00
3	24	8	8	8	90.00.00	90.00.00	90.00.00	90.00.00
4	24	8	8	8	90.00.00	90.00.00	90.00.00	90.00.00
5	24	8	8	8	90.00.00	90.00.00	90.00.00	90.00.00
6	24	8	8	8	90.00.00	90.00.00	90.00.00	90.00.00
7	24	8	8	8	90.00.00	90.00.00	90.00.00	90.00.00
8	24	8	8	8	90.00.00	90.00.00	90.00.00	90.00.00
9	24	8	8	8	90.00.00	90.00.00	90.00.00	90.00.00
10	24	8	8	8	90.00.00	90.00.00	90.00.00	90.00.00
11	24	8	8	8	90.00.00	90.00.00	90.00.00	90.00.00
12	24	8	8	8	90.00.00	90.00.00	90.00.00	90.00.00
13	24	8	8	8	90.00.00	90.00.00	90.00.00	90.00.00
14	24	8	8	8	90.00.00	90.00.00	90.00.00	90.00.00
15	24	8 1 3/16	8	7 10 13/16	90.00.00	90.00.00	90.00.00	90.00.00
16	24	8 11/16	8	7 11 5/16	90.00.00	90.45.15	90.45.15	90.00.00
17	24	8 1 13/16	8	7 10 3/16	90.00.00	89.47.56	89.47.56	90.00.00
18	24	8 9/16	8	7 11 7/16	90.00.00	90.34.11	90.34.10	90.00.00
19	24	8 1 1/8	8	7 10 7/8	90.00.00	89.45.55	89.45.54	90.00.00
20	24	8	8	8	89.55.59	89.09.43	89.09.42	89.55.54

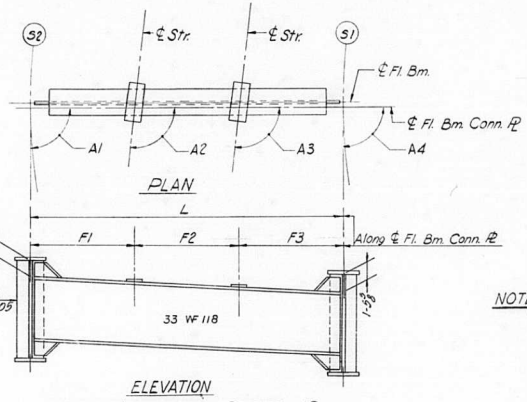


PLAN END FL BM. 20

ELEVATION



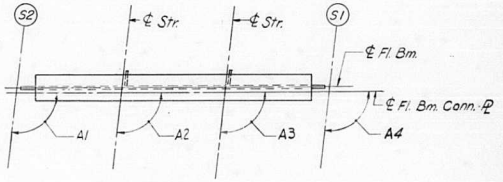
TYPICAL STRINGER



PLAN

ELEVATION

INTERIOR FLOOR BEAM 2 THRU 19



PLAN-END FL. BM. 1
END FLOOR BEAM 1 AND 20

NOTES:

Length L of Stringers and Fl. Bms. is correct as given in the table except the increment lengths are given to the nearest '16'.
All dimensions are in the horizontal plane.
For Connection Plate Def. see Sht. No. 106

DESIGNED BY A.T.
DRAWN BY L.M.
CHECKED BY A.T.
APPROVED BY K.A.

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

STRINGER AND FLOOR BEAM SCHEDULE

SPANS S19 THRU S21
POPLAR STREET BRIDGE APPROACHES
RAMP "S"

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

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

SHEET 94 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. - 70	82-3HVB-3	ST. CLAIR	262	162
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

FLOOR BEAM 2	T1	T2	T3	T4
STR.				
1	2	1 3/4	1	3/4
2	2	1 13/16	15/16	3/4

FLOOR BEAM 3	T1	T2	T3	T4
STR.				
1	1 15/16	1 3/4	1	13/16
2	2	1 13/16	15/16	3/4

FLOOR BEAM 4	T1	T2	T3	T4
STR.				
3	1 15/16	1 13/16	15/16	13/16
4	1 15/16	1 13/16	15/16	13/16

FLOOR BEAM 5	T1	T2	T3	T4
STR.				
3	1 7/8	1 13/16	15/16	7/8
4	1 15/16	1 7/8	7/8	13/16

FLOOR BEAM 6	T1	T2	T3	T4
STR.				
5	1 15/16	1 15/16	13/16	13/16
6	2	1 15/16	13/16	3/4

FLOOR BEAM 7	T1	T2	T3	T4
STR.				
5	1 15/16	1 15/16	13/16	13/16
6	1 15/16	2	3/4	13/16

FLOOR BEAM 8	T1	T2	T3	T4
STR.				
7	1 7/8	2	3/4	7/8
8	1 15/16	2	3/4	13/16

FLOOR BEAM 9	T1	T2	T3	T4
STR.				
9	1 15/16	2 1/16	11/16	13/16
10	2	2 1/8	5/8	3/4

FLOOR BEAM 10	T1	T2	T3	T4
STR.				
9	1 15/16	2 1/8	5/8	13/16
10	1 15/16	2 1/8	5/8	13/16

FLOOR BEAM 11	T1	T2	T3	T4
STR.				
11	1 7/8	2 1/8	5/8	7/8
12	1 15/16	2 3/16	9/16	13/16

FLOOR BEAM 12	T1	T2	T3	T4
STR.				
11	1 7/8	2 3/16	9/16	7/8
12	1 15/16	2 3/16	9/16	13/16

FLOOR BEAM 13	T1	T2	T3	T4
STR.				
13	1 7/8	2 1/4	1/2	7/8
14	1 15/16	2 1/4	1/2	13/16

FLOOR BEAM 14	T1	T2	T3	T4
STR.				
13	1 7/8	2 1/4	1/2	7/8
14	1 7/8	2 5/16	7/16	7/8

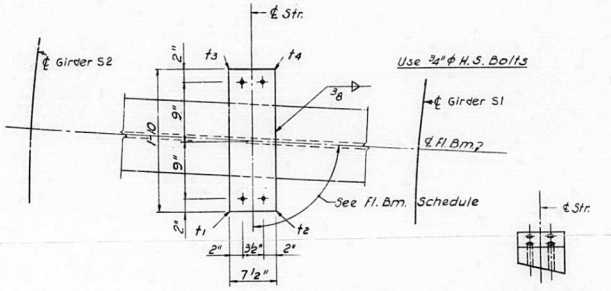
FLOOR BEAM 15	T1	T2	T3	T4
STR.				
15	1 13/16	2 1/4	1/2	15/16
16	1 7/8	2 5/16	7/16	7/8

FLOOR BEAM 16	T1	T2	T3	T4
STR.				
17	1 13/16	2 5/16	7/16	15/16
18	1 13/16	2 5/16	7/16	15/16

FLOOR BEAM 17	T1	T2	T3	T4
STR.				
17	1 13/16	2 5/16	7/16	15/16
18	1 13/16	2 5/16	7/16	15/16

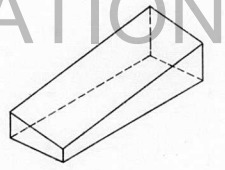
FLOOR BEAM 18	T1	T2	T3	T4
STR.				
19	1 3/4	2 5/16	7/16	1
20	1 13/16	2 3/8	3/8	15/16

FLOOR BEAM 19	T1	T2	T3	T4
STR.				
19	1 3/4	2 5/16	7/16	1
20	1 3/4	2 3/8	3/8	1

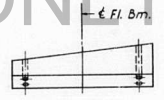


PLAN

END VIEW



ISOMETRIC VIEW



SIDE VIEW

SHIM DETAIL

Shim thickness t1, t2, t3 & t4 shown in the Table are orientated with the Plan View shown above.

DESIGNED BY A.T.
DRAWN BY I.M.
CHECKED BY S.A.B
APPROVED BY K.A.

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

STRINGER SHIMS

SPANS S19 THRU S21

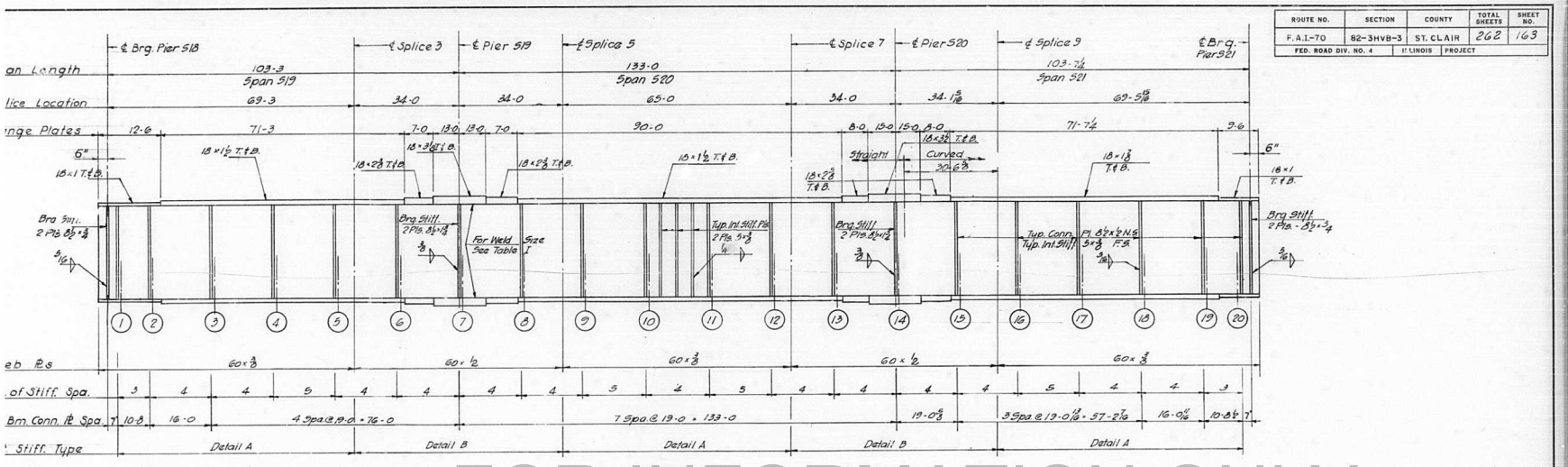
POPLAR STREET BRIDGE APPROACHES
RAMP "S"

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

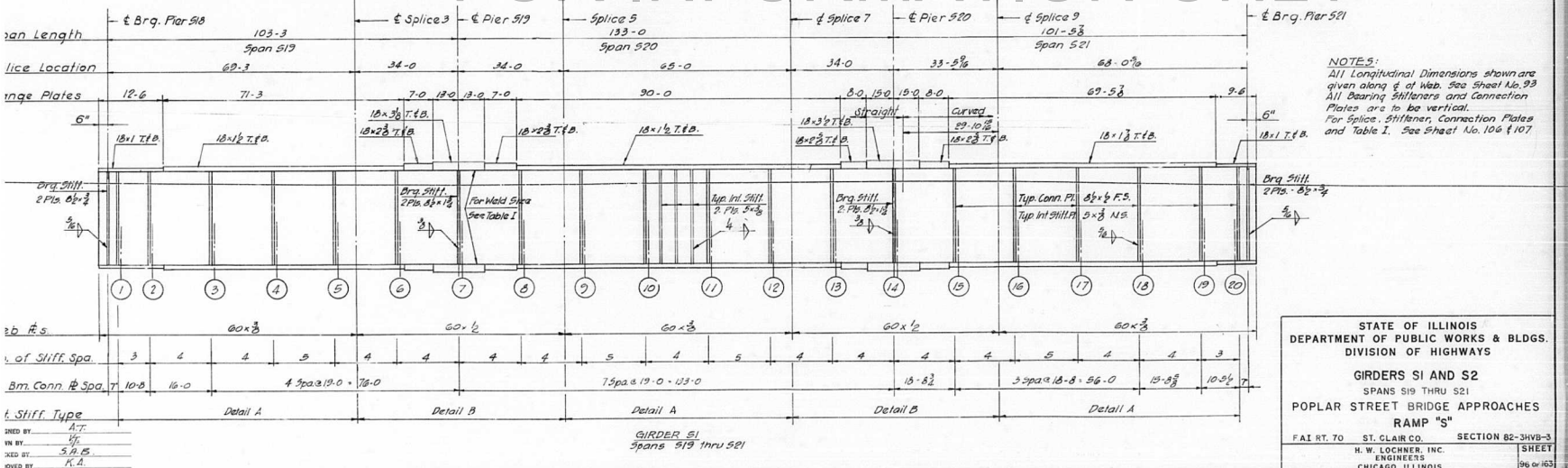
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET
95 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	163
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



GIRDER S2
Spans 519 thru 521



GIRDER S1
Spans 519 thru 521

NOTES:
All Longitudinal Dimensions shown are given along ℄ of Web. See Sheet No. 93
All Bearing Stiffeners and Connection Plates are to be vertical.
For Splice, Stiffener, Connection Plates and Table I. See Sheet No. 106 & 107

DESIGNED BY A.T.
DRAWN BY V.F.
CHECKED BY S.A.B.
APPROVED BY K.A.

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

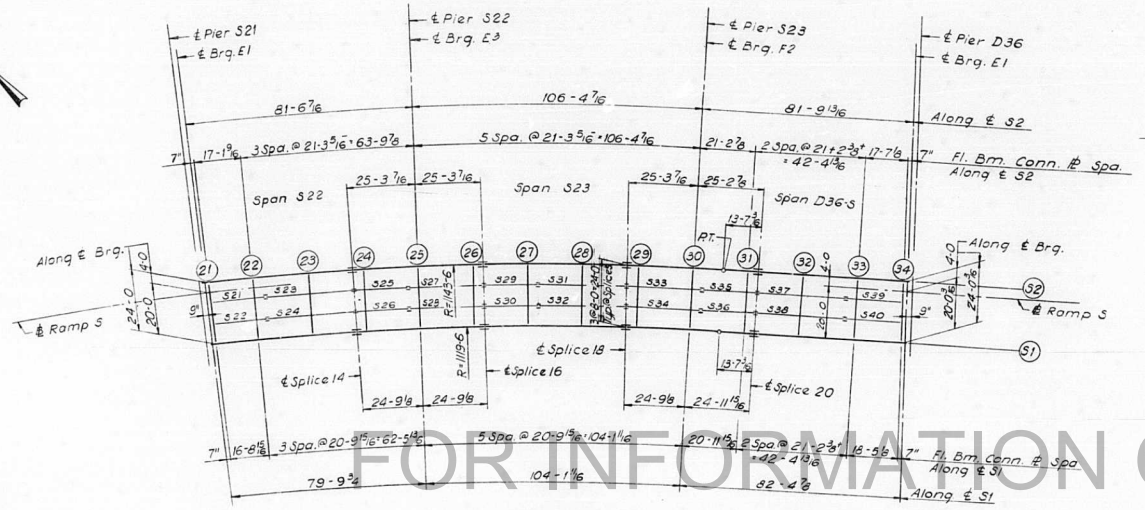
GIRDERS S1 AND S2
SPANS S19 THRU S21
POPLAR STREET BRIDGE APPROACHES
RAMP "S"

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

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

SHEET 96 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	164
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



PLAN

SPANS S22 THRU D36-S

ELEVATION TOP OF GIRDER WEB

		GIR. S2	GIR. S1	DIFF.
CL. BRG.		469.046	467.125	1.921
FLOOR BEAM	21	469.011	467.090	1.921
FLOOR BEAM	22	467.987	466.067	1.920
FLOOR BEAM	23	466.715	464795	1.920
SPLICE	14	465.683	463.763	1.920
FLOOR BEAM	24	465.443	463.523	1.920
FLOOR BEAM	25	464.171	462.251	1.920
FLOOR BEAM	26	462.899	460.979	1.920
SPLICE	16	462.659	460.739	1.920
FLOOR BEAM	27	461.604	459.820	1.784
FLOOR BEAM	28	460.304	458.687	1.617
SPLICE	18	459.249	457.768	1.481
FLOOR BEAM	29	459.004	457.571	1.433
FLOOR BEAM	30	457.707	456.526	1.181
FLOOR BEAM	31	456.411	455.473	.938
SPLICE	20	456.167	455.272	.895
FLOOR BEAM	32	455.204	454.459	.745
FLOOR BEAM	33	454.017	453.457	.560
FLOOR BEAM	34	453.032	452.586	.446
CL. BRG.		452.999	452.558	.441

Note

Dimensions locating Floor Beams are given to the Floor Beam Conn. Plate see Sketch Sheet No. 60

BILL OF MATERIAL		
*Structural Steel	Lbs.	253,040

* Weight of Bearing Assemblies with Lead Plates and Anchor Bolts are Included as Structural Steel Est. Wt. 6540 Lbs.

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

FRAMING PLAN
SPANS S22 THRU D36-S

POPLAR STREET BRIDGE APPROACHES
RAMP "S"

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

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

SHEET 97 OF 163

DESIGNED BY A.T.
DRAWN BY I.M.
CHECKED BY A.T.
APPROVED BY K.A.

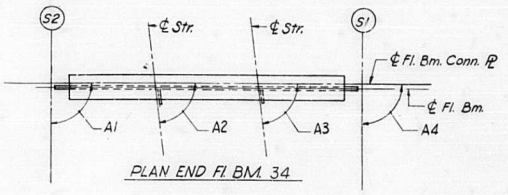
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82-3HVB-3	ST. CLAIR	262	165
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

STRINGER DIMENSIONS

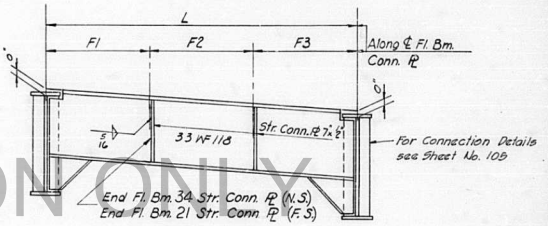
STR	L	S1	S2	S3	B1	B2
21	20'-11 7/8"	17'-0"	0	3'-11 13/16"	90°35'48"	90°31'46"
22	20 9 15/16	16 10 7/16		3 11 1/2	90.35.49	90.31.45
23	34 3 5/16	17 1 11/16		17 1 11/16	90.51.53	90.51.53
24	34 7/16	17 3/16		17 3/16	90.51.53	90.51.53
25	21 1 1/2	3 11 13/16		17 1 11/16	90.31.59	90.31.59
26	20 11 11/16	3 11 1/2	0	17 1/4	90.31.59	90.31.59
27	29 1 3/16	3 11 13/16	21'-1 1/2"	3 11 13/16	90.44.03	90.44.03
28	28 10 11/16	3 11 1/2	20 11 11/16	3 11 1/2	90.44.03	90.44.03
29	21 1 1/2	17 1 11/16	0	3 11 13/16	90.31.59	90.31.59
30	20 11 11/16	17 1/4		3 11 1/2	90.31.59	90.31.59
31	34 3 5/16	17 1 11/16		17 1 11/16	90.51.53	90.51.53
32	34 7/16	17 3/16	0	17 3/16	90.51.53	90.51.53
33	29 1 3/16	3 11 13/16	21 1 1/2	3 11 13/16	90.44.03	90.44.03
34	28 10 11/16	3 11 1/2	20 11 11/16	3 11 1/2	90.44.03	90.44.03
35	21 2 1/16	17 2 1/16	0	4	90.18.50	90.04.06
36	21 1 7/16	17 1 7/16		4	90.18.51	90.04.05
37	34 4 13/16	17 2 3/8		17 2 3/8	90.00.00	90.00.00
38	34 4 13/16	17 2 3/8		17 2 3/8	90.00.00	90.00.00
39	21 10 7/16	4		17 10 7/16	90.00.00	88.00.48
40	22 1 13/16	4	0	18 1 13/16	90.00.00	88.00.48

FLOOR BEAM DIMENSIONS

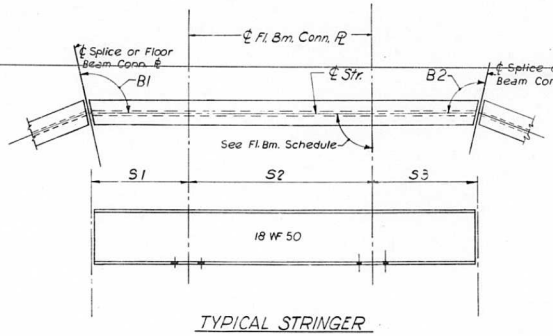
FL BM	L	F1	F2	F3	A1	A2	A3	A4
21	24'-0"	8'-0"	8'-0"	8'-0"	90°04.01"	90°35.48"	90°35.49"	90°04.06"
22	24	8 3/8	8	7 11 5/8	90.00.00	89.40.18	89.40.19	90.00.00
23	24	8 1 9/16	8	7 10 7/16	90.00.00	90.00.00	90.00.00	90.00.00
24	24	8 3/8	8	7 11 5/8	90.00.00	90.19.55	90.19.55	90.00.00
25	24	8 1/2	8	7 11 1/2	90.00.00	90.31.59	90.31.59	90.00.00
26	24	8 1/2	8	7 11 1/2	90.00.00	89.28.01	89.28.01	90.00.00
27	24	8 3/8	8	7 11 5/8	90.00.00	89.40.05	89.40.05	90.00.00
28	24	8 1 9/16	8	7 10 7/16	90.00.00	90.00.00	90.00.00	90.00.00
29	24	8 1/2	8	7 11 1/2	90.00.00	90.31.59	90.31.59	90.00.00
30	24	8 1/2	8	7 11 1/2	90.00.00	89.28.01	89.28.01	90.00.00
31	24	8 1/16	8	7 11 15/16	90.00.00	89.55.54	89.55.55	90.00.00
32	24	8	8	8	90.00.00	90.00.00	90.00.00	90.00.00
33	24	8	8	8	90.00.00	90.00.00	90.00.00	90.00.00
34	24 3/16	8 1/16	8 1/16	8 1/16	91.59.12	91.59.12	91.59.12	91.59.12



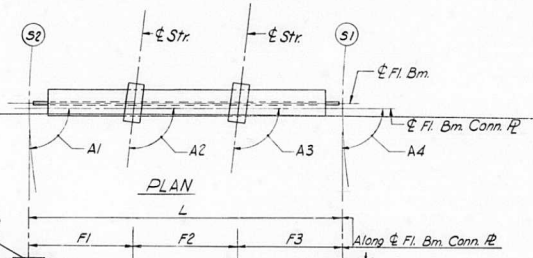
PLAN END FL BM. 34



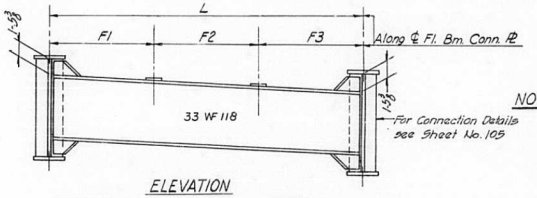
ELEVATION



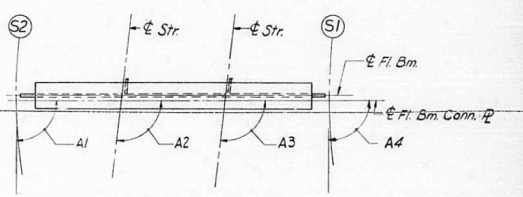
TYPICAL STRINGER



PLAN



ELEVATION
INTERIOR FLOOR BEAM 22 THRU 33



PLAN-END FL. BM. 21
END FLOOR BEAM 21 AND 34

NOTES:
Length L of Stringers and Fl. Bms. is correct as given in the Table except the increment lengths are given to the nearest '16'.
All dimensions are in the horizontal plane.
For Connection Plate Def. see Sht No. 106

DESIGNED BY A.T.
DRAWN BY I.M.
CHECKED BY A.T.
APPROVED BY K.A.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
STRINGER AND FLOOR BEAM SCHEDULE
SPANS S22 THRU D36-S
POPLAR STREET BRIDGE APPROACHES
RAMP "S"
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-3

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

SHEET 98 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.- 70	82-3HVB-3	ST. CLAIR	262	166
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

FLOOR BEAM 22 THRU 23	T1	T2	T3	T4
STR. 21 THRU 24	1 11/16	2 1/4	3/8	15/16

FLOOR BEAM 24 THRU 26	T1	T2	T3	T4
STR. 25 THRU 28	1 11/16	2 1/4	3/8	15/16

FLOOR BEAM 27 THRU 28	T1	T2	T3	T4
STR. 29 THRU 32	1 11/16	2 1/4	3/8	15/16

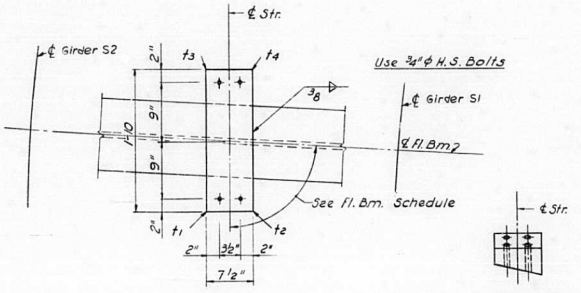
FLOOR BEAM 29	T1	T2	T3	T4
STR.				
33	1 3/4	2 3/16	7/16	7/8
34	1 11/16	2 1/8	1/2	15/16

FLOOR BEAM 30	T1	T2	T3	T4
STR.				
33	1 3/4	2 1/8	1/2	7/8
34	1 3/4	2 1/16	9/16	7/8

FLOOR BEAM 31	T1	T2	T3	T4
STR.				
35	1 13/16	2 1/16	9/16	13/16
36	1 3/4	2 1/16	9/16	7/8

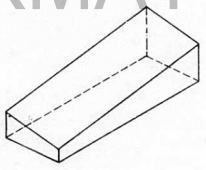
FLOOR BEAM 32	T1	T2	T3	T4
STR.				
37	1 3/4	2	5/8	7/8
38	1 3/4	2	5/8	7/8

FLOOR BEAM 33	T1	T2	T3	T4
STR.				
39	1 13/16	2	5/8	13/16
40	1 3/4	1 15/16	11/16	7/8

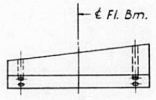


PLAN

END VIEW



ISOMETRIC VIEW



SIDE VIEW

SHIM DETAIL

Shim thickness t1, t2, t3 & t4 shown in the Table are orientated with the Plan View shown above.

DESIGNED BY A.T.
DRAWN BY I.M.
CHECKED BY S.A.B.
APPROVED BY K.A.

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

STRINGER SHIMS

SPANS S22 THRU D36S

POPLAR STREET BRIDGE APPROACHES

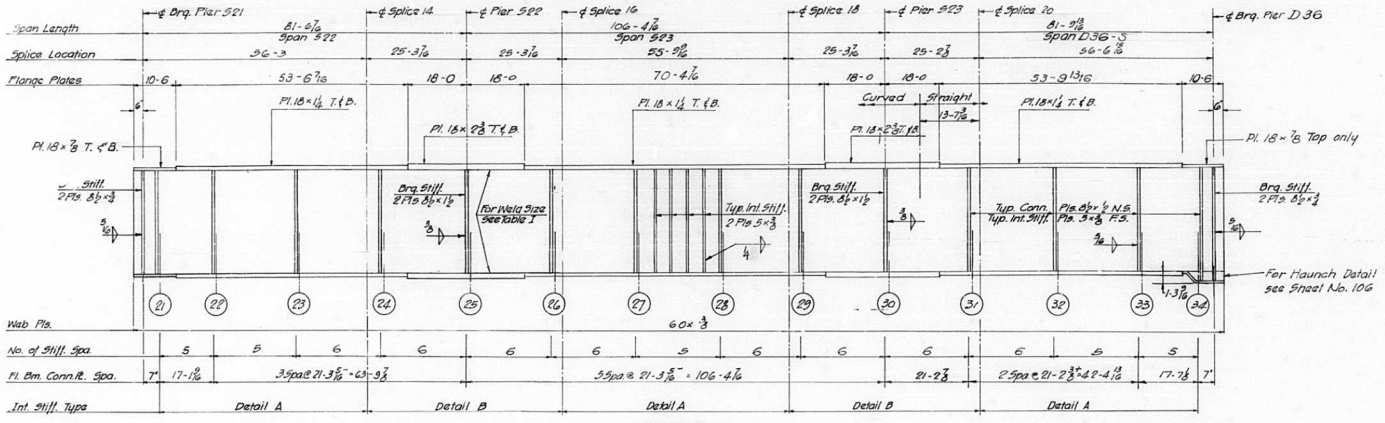
RAMP "S"

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

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

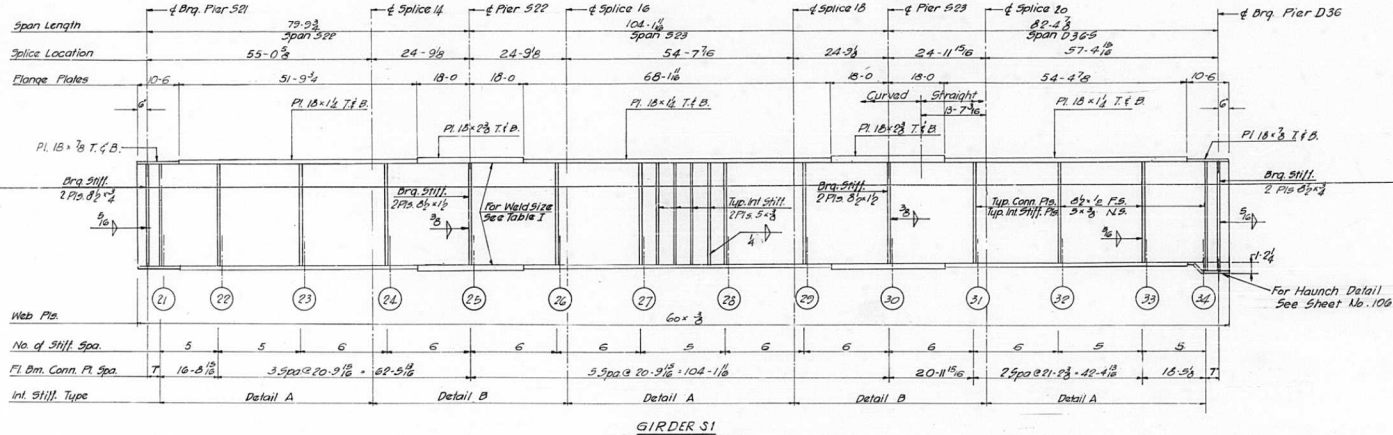
SHEET 99 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVB-3	ST. CLAIR	262	167
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



GIRDER S2
Spans S22 thru D36-S

NOTES:
All longitudinal dimensions shown are given along ℄ of web see Sheet No. 97
All Bearing Stiffeners and Connection Plates to be vertical.
For Splice, Stiffener, Connection Plate Details and Table I see Sheet No. 106 & 107



GIRDER S1
Spans S22 thru D36-S

DESIGNED BY A.T.
DRAWN BY P.C.
CHECKED BY S.A.B.
APPROVED BY R.A.

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

GIRDERS S1 AND S2
SPANS S22 THRU D36-S

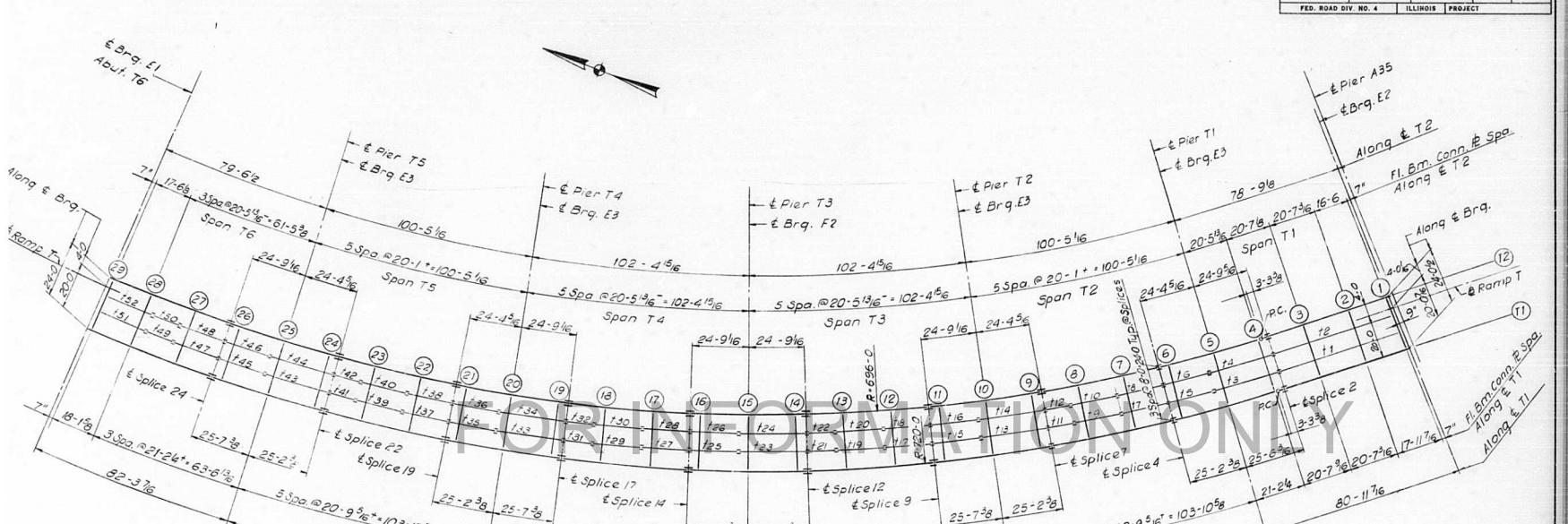
POPLAR STREET BRIDGE APPROACHES
RAMP "S"

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

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

SHEET 100 of 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.–70	82–3HVB–3	ST. CLAIR	262	168
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



ELEVATION TOP OF GIRDER WEB

		GIR. T1	GIR. T2	DIFF.
CL. BRG.		451.792	450.949	.843
FLOOR BEAM	1	451.803	450.954	.849
FLOOR BEAM	2	452.125	451.083	1.042
FLOOR BEAM	3	452.494	451.245	1.249
SPLICE	2	452.786	451.372	1.414
FLOOR BEAM	4	452.837	451.381	1.456
FLOOR BEAM	5	453.087	451.425	1.662
FLOOR BEAM	6	453.732	451.467	1.865
SPLICE	4	453.384	451.476	1.908
FLOOR BEAM	7	453.358	451.446	1.912
FLOOR BEAM	8	453.324	451.408	1.916
SPLICE	7	453.297	451.377	1.920
FLOOR BEAM	9	453.265	451.345	1.920
FLOOR BEAM	10	453.114	451.194	1.920

		GIR. T1	GIR. T2	DIFF.
FLOOR BEAM	11	452.960	451.040	1.920
SPLICE	9	452.927	451.007	1.920
FLOOR BEAM	12	452.712	450.792	1.920
FLOOR BEAM	13	452.440	450.520	1.920
SPLICE	12	452.224	450.304	1.920
FLOOR BEAM	14	452.143	450.223	1.920
FLOOR BEAM	15	451.753	449.833	1.920
FLOOR BEAM	16	451.364	449.444	1.920
SPLICE	14	451.282	449.362	1.920
FLOOR BEAM	17	450.881	448.961	1.920
FLOOR BEAM	18	450.373	448.453	1.920
SPLICE	17	449.971	448.051	1.920
FLOOR BEAM	19	449.842	447.922	1.920
FLOOR BEAM	20	449.224	447.304	1.920

		GIR. T1	GIR. T2	DIFF.
FLOOR BEAM	21	448.617	448.697	1.920
SPLICE	19	448.488	446.568	1.920
FLOOR BEAM	22	447.918	445.998	1.920
FLOOR BEAM	23	447.193	445.273	1.920
SPLICE	22	446.622	444.702	1.920
FLOOR BEAM	24	446.464	444.545	1.919
FLOOR BEAM	25	445.723	443.803	1.920
FLOOR BEAM	26	444.967	443.047	1.920
SPLICE	24	444.809	442.889	1.920
FLOOR BEAM	27	444.244	442.324	1.920
FLOOR BEAM	28	443.530	441.610	1.920
FLOOR BEAM	29	442.919	441.000	1.919
CL. BRG.		442.899	440.979	1.920

PLAN

SPANS T1 THRU T6

Note :

Dimensions locating Floor Beams are given to the Floor Beam Conn. Plate see Sketch Sheet No. 60

BILL OF MATERIAL		
*Structural Steel	Lbs.	539,720

* Weight of Bearing Assemblies with Lead Plates and Anchor Bolts are Included as Structural Steel Est. Wt. 14240 Lbs.

DESIGNED BY A.T.
DRAWN BY I.M.
CHECKED BY S.A.B.
APPROVED BY K.A.

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

FRAMING PLAN

SPANS T1 THRU T6

POPLAR STREET BRIDGE APPROACHES

RAMP "T"

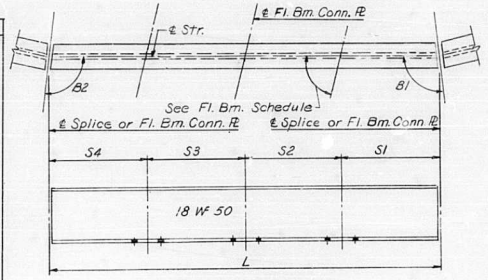
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82–3HVB–3

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

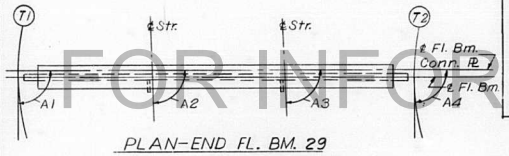
SHEET 101 OF 163

STRINGER DIMENSIONS

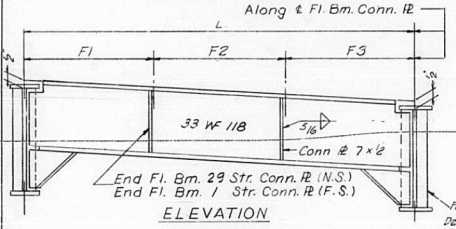
STR	L	S1	S2	S3	S4	B1	B2
1	54'-0 7/16"	17'- 5 5/8"	0	20'- 7 3/16"	16'- 3 5/8"	93.27.09"	90.00.00"
2	53 10 5/8	16 11 13/16	0	20 7 3/16	16 3 5/8	93.27.09	90.00.00
3	29 7 11/16	4 3 13/16	20 11 3/8	0	4 4 1/2	90.56.36	91.10.41
4	29 4 1/8	4 3 11/16	20 8 9/16		4 3 7/8	90.56.32	91.10.46
5	20 6 9/16	16 2 1/16	0		4 4 1/2	90.49.36	90.49.36
6	20 3 3/4	15 11 7/8			4 3 7/8	90.49.36	90.49.36
7	20 6 9/16	16 2 1/16			4 4 1/2	90.49.36	90.49.36
8	20 3 3/4	15 11 7/8			4 3 7/8	90.49.36	90.49.36
9	20 6 9/16	16 2 1/16			4 4 1/2	90.49.36	90.49.36
10	20 3 3/4	15 11 7/8			4 3 7/8	90.49.36	90.49.36
11	11 9 9/16	0			0	90.28.29	90.28.29
12	11 8	0	0		0	90.28.29	90.28.29
13	29 3 1/2	4 4 1/2	20 6 1/2		4 4 1/2	91.10.43	91.10.43
14	28 11 9/16	4 3 7/8	20 3 3/4		4 3 7/8	91.10.43	91.10.43
15	20 11 7/16	16 6 15/16	0		4 4 1/2	90.50.35	90.50.35
16	20 8 5/8	16 4 11/16			4 3 7/8	90.50.35	90.50.35
17	20 11 7/16	16 6 15/16			4 4 1/2	90.50.35	90.50.35
18	20 8 5/8	16 4 11/16			4 3 7/8	90.50.35	90.50.35
19	20 11 7/16	16 6 15/16			4 4 1/2	90.50.35	90.50.35
20	20 8 5/8	16 4 11/16			4 3 7/8	90.50.35	90.50.35
21	12 2 7/16	0			0	90.29.28	90.29.28
22	12 13/16	0	0		0	90.29.28	90.29.28
23	29 8 3/8	4 4 1/2	20 11 3/8		4 4 1/2	91.11.42	91.11.42
24	29 4 3/8	4 3 7/8	20 8 9/16		4 3 7/8	91.11.42	91.11.42
25	20 11 7/16	16 6 15/16	0		4 4 1/2	90.50.35	90.50.35
26	20 8 5/8	16 4 11/16			4 3 7/8	90.50.35	90.50.35
27	20 11 7/16	16 6 15/16			4 4 1/2	90.50.35	90.50.35
28	20 8 5/8	16 4 11/16			4 3 7/8	90.50.35	90.50.35
29	20 11 7/16	16 6 15/16			4 4 1/2	90.50.35	90.50.35
30	20 8 5/8	16 4 11/16			4 3 7/8	90.50.35	90.50.35
31	12 2 7/16	0			0	90.29.28	90.29.28
32	12 13/16	0	0		0	90.29.28	90.29.28
33	29 8 3/8	4 4 1/2	20 11 3/8		4 4 1/2	91.11.42	91.11.42
34	29 4 3/8	4 3 7/8	20 8 9/16		4 3 7/8	91.11.42	91.11.42
35	20 6 9/16	16 2 1/16	0		4 4 1/2	90.49.36	90.49.36
36	20 3 3/4	15 11 7/8			4 3 7/8	90.49.36	90.49.36
37	20 6 9/16	16 2 1/16			4 4 1/2	90.49.36	90.49.36
38	20 3 3/4	15 11 7/8			4 3 7/8	90.49.36	90.49.36
39	20 6 9/16	16 2 1/16			4 4 1/2	90.49.36	90.49.36
40	20 3 3/4	15 11 7/8			4 3 7/8	90.49.36	90.49.36
41	11 9 5/16	0			0	90.28.29	90.28.29
42	11 8	0	0		0	90.28.29	90.28.29
43	29 3 1/2	4 4 1/2	20 6 1/2		4 4 1/2	91.10.43	91.10.43
44	28 11 9/16	4 3 7/8	20 3 3/4		4 3 7/8	91.10.43	91.10.43
45	20 11 7/16	16 6 15/16	0		4 4 1/2	90.50.35	90.50.35
46	20 8 5/8	16 4 11/16			4 3 7/8	90.50.35	90.50.35
47	20 11 7/16	16 6 15/16			4 4 1/2	90.50.35	90.50.35
48	20 8 5/8	16 4 11/16			4 3 7/8	90.50.35	90.50.35
49	12 9 13/16	0	0		0	90.30.56	90.30.56
50	12 8 1/16	0			0	90.30.56	90.30.56
51	21 8 5/16	3 9 3/16			17 11 1/8	90.52.22	90.55.11
52	21 5 5/16	3 8 5/8	0	0	17 8 5/8	90.52.21	90.55.12



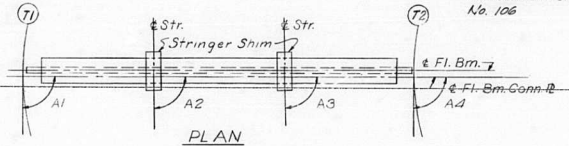
TYPICAL STRINGER



PLAN-END FL. BM. 29

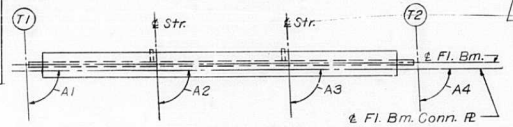


ELEVATION

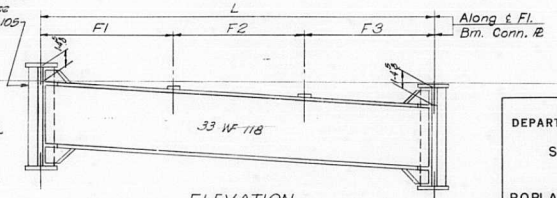


PLAN

END FLOOR BEAM 1 AND 29



PLAN-END FL. BM. 1



ELEVATION

INTERIOR FLOOR BEAM 2 THRU 28

FLOOR BEAM DIMENSIONS

FL. BM	L	F1	F2	F3	A1	A2	A3	A4
1	24'-0 1/2"	8'-0 3/16"	8'-0 3/16"	8'-0 3/16"	93.27.09"	93.27.09"	93.27.09"	93.27.09"
2	24	8	8	8	90.00.00	90.00.00	90.00.00	90.00.00
3	24	8	8	8	90.00.00	90.00.00	90.00.00	90.00.00
4	24	8 7/8	8	7 11 3/16	90.00.00	90.51.36	90.51.32	90.00.00
5	24	8 15/16	8	7 11 1/16	90.00.00	89.10.28	89.10.21	90.00.00
6	24	8 5/8	8	7 11 7/16	90.00.00	89.31.31	89.31.31	90.00.00
7	24	8 5/8	8	7 11 7/16	90.00.00	89.31.31	89.31.31	90.00.00
8	24	8 5/8	8	7 11 7/16	90.00.00	89.31.31	89.31.31	90.00.00
9	24	8 15/16	8	7 11 1/16	90.00.00	90.49.36	90.49.36	90.00.00
10	24	8 15/16	8	7 11 1/16	90.00.00	89.10.24	89.10.24	90.00.00
11	24	8 5/8	8	7 11 3/8	90.00.00	89.30.32	89.30.32	90.00.00
12	24	8 5/8	8	7 11 3/8	90.00.00	89.30.32	89.30.32	90.00.00
13	24	8 5/8	8	7 11 3/8	90.00.00	89.30.32	89.30.32	90.00.00
14	24	8 15/16	8	7 11 1/16	90.00.00	90.50.35	90.50.35	90.00.00
15	24	8 15/16	8	7 11 1/16	90.00.00	89.09.25	89.09.25	90.00.00
16	24	8 5/8	8	7 11 3/8	90.00.00	89.30.32	89.30.32	90.00.00
17	24	8 5/8	8	7 11 3/8	90.00.00	89.30.32	89.30.32	90.00.00
18	24	8 5/8	8	7 11 3/8	90.00.00	89.30.32	89.30.32	90.00.00
19	24	8 15/16	8	7 11 1/16	90.00.00	90.50.35	90.50.35	90.00.00
20	24	8 15/16	8	7 11 1/16	90.00.00	89.09.25	89.09.25	90.00.00
21	24	8 5/8	8	7 11 7/16	90.00.00	89.31.31	89.31.31	90.00.00
22	24	8 5/8	8	7 11 7/16	90.00.00	89.31.31	89.31.31	90.00.00
23	24	8 5/8	8	7 11 7/16	90.00.00	89.31.31	89.31.31	90.00.00
24	24	8 15/16	8	7 11 1/16	90.00.00	90.49.36	90.49.36	90.00.00
25	24	8 15/16	8	7 11 1/16	90.00.00	89.10.24	89.10.24	90.00.00
26	24	8 5/8	8	7 11 3/8	90.00.00	89.30.32	89.30.32	90.00.00
27	24	8 5/8	8	7 11 3/8	90.00.00	89.30.32	89.30.32	90.00.00
28	24	8 9/16	8	7 11 7/16	90.00.00	90.34.12	90.34.11	90.00.00
29	24	8	8	8	89.57.13	89.04.48	89.04.48	89.57.07

NOTES:

Length L of Stringers and Fl. Bms. is correct as given in the table except the increment lengths are given to the nearest "16". All dimensions are in the horizontal plane.

For Connection Plate Detail see Sheet No. 106

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. – 70	82-3HVB-3	ST. CLAIR	262	169
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
STRINGER AND FLOOR BEAM
SCHEDULE
SPANS T1 THRU T6
POPLAR STREET BRIDGE APPROACHES
RAMP "T"

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

H. W. LOCHNER, INC
ENGINEERS
CHICAGO, ILLINOIS

SHEET 102 OF 163

DESIGNED BY A.T.
DRAWN BY D.H.
CHECKED BY A.T.
APPROVED BY K.A.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	170
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

FLOOR BEAM 2	T1	T2	T3	T4
STR.				
1	3/4	1 1/16	1 1/16	1 3/8
2	3/4	1 1/8	1	1 3/8

FLOOR BEAM 3	T1	T2	T3	T4
STR.				
1	11/16	1 1/8	1	1 7/16
2	3/4	1 1/8	1	1 3/8

FLOOR BEAM 4	T1	T2	T3	T4
STR.				
3	3/4	1 3/16	15/16	1 3/8
4	3/4	1 1/4	7/8	1 3/8

FLOOR BEAM 5	T1	T2	T3	T4
STR.				
3	11/16	1 1/4	7/8	1 7/16
4	3/4	1 1/4	7/8	1 3/8

FLOOR BEAM 6	T1	T2	T3	T4
STR.				
5	11/16	1 1/4	7/8	1 7/16
6	11/16	1 5/16	13/16	1 7/16

FLOOR BEAM 7 THRU 8	T1	T2	T3	T4
STR. 7 THRU 10	13/16	1 3/8	3/4	1 5/16

FLOOR BEAM 9 THRU 11	T1	T2	T3	T4
STR. 13 THRU 16	13/16	1 7/16	11/16	1 5/16

FLOOR BEAM 12 THRU 13	T1	T2	T3	T4
STR. 17 THRU 20	7/8	1 1/2	5/8	1 1/4

FLOOR BEAM 14 THRU 16	T1	T2	T3	T4
STR. 23 THRU 26	15/16	1 9/16	9/16	1 3/16

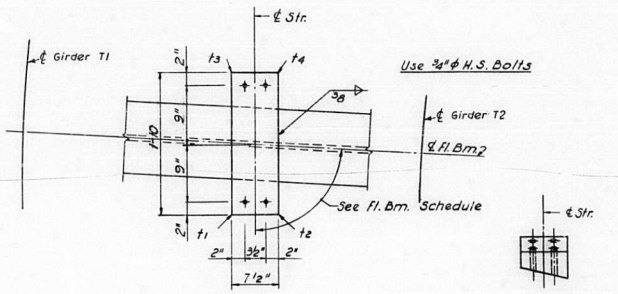
FLOOR BEAM 17 THRU 18	T1	T2	T3	T4
STR. 27 THRU 30	1	1 5/8	1/-	1 1/8

FLOOR BEAM 19 THRU 21	T1	T2	T3	T4
STR. 33 THRU 36	1 1/16	1 11/16	7/16	1 1/16

FLOOR BEAM 22 THRU 23	T1	T2	T3	T4
STR. 37 THRU 40	1 1/8	1 3/4	3/8	1

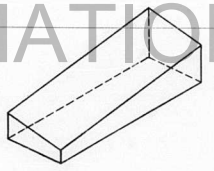
FLOOR BEAM 24 THRU 26	T1	T2	T3	T4
STR. 43 THRU 46	1 3/16	1 3/4	3/8	15/16

FLOOR BEAM 27 & 28	T1	T2	T3	T4
STR. 47 THRU 52	1 1/8	1 3/4	3/8	1

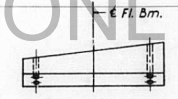


PLAN

END VIEW



ISOMETRIC VIEW



SIDE VIEW

SHIM DETAIL

Shim thickness t1, t2, t3 & t4 shown in the table are orientated with the Plan View shown above.

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

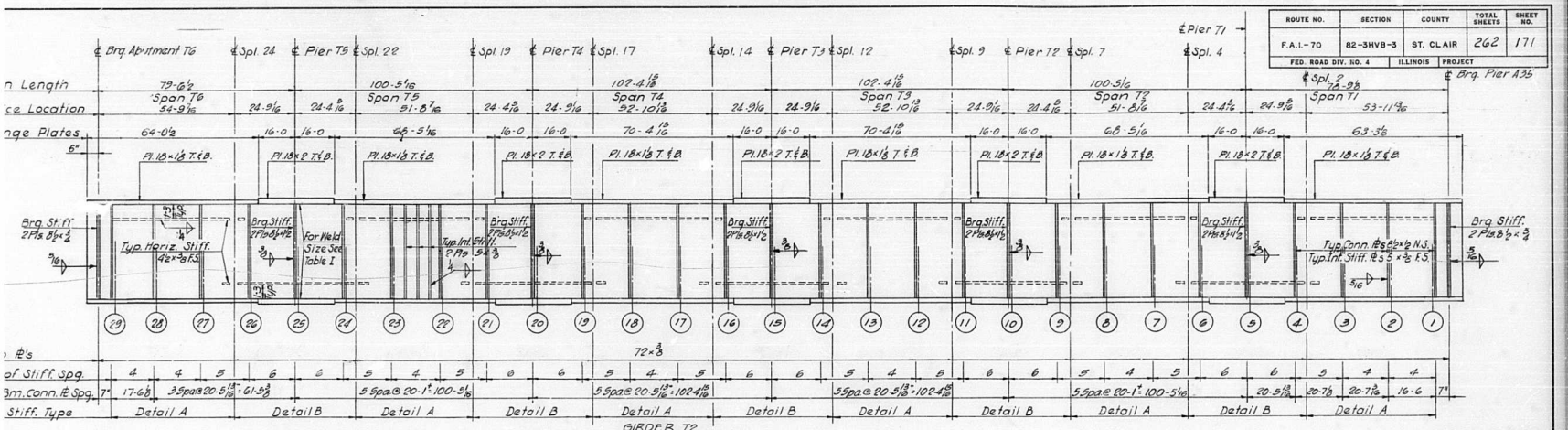
STRINGER SHIMS
SPANS T1 THRU T6
POPLAR STREET BRIDGE APPROACHES
RAMP "T"

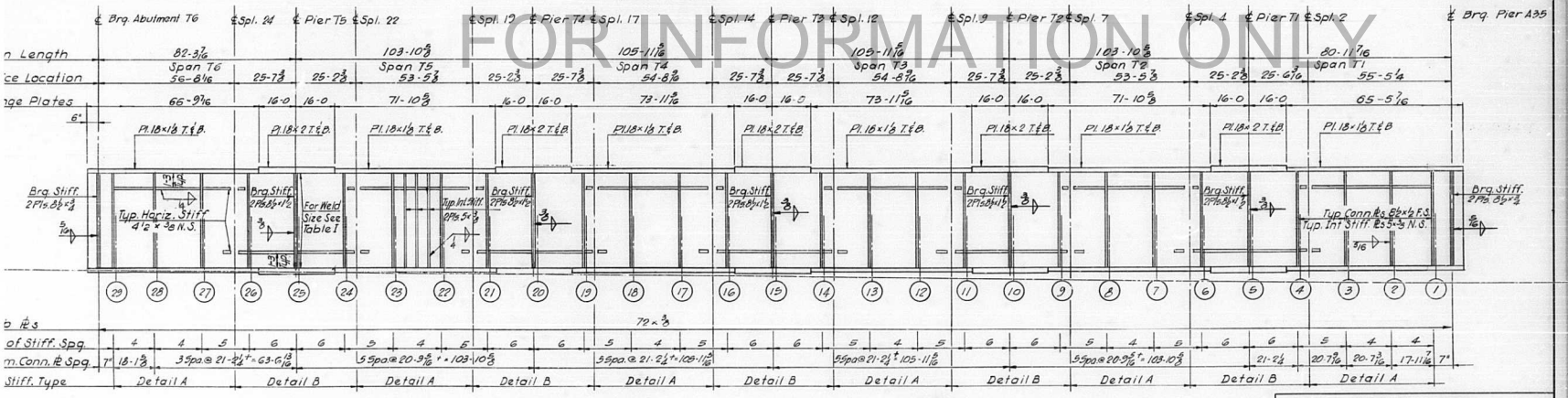
F.A.I. RT.-70 ST. CLAIR CO SECTION 82-3HVB - 3

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

SHEET 103 OF 163

ED BY A.T.
I BY I.M.
ED BY S.A.B.
VED BY K.A.





NOTES:
All longitudinal dimensions shown are given along ℄ of web see Sheet No. 101
All Bearing Stiffeners and Connection plates to be vertical.
For Splice, Stiffener, Connection Plate Details and Table I see Sheet No. 103, 106, & 107

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	171
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

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

GIRDERS T1 AND T2
SPANS T1 THRU T6
POPLAR STREET BRIDGE APPROACHES
RAMP "T"

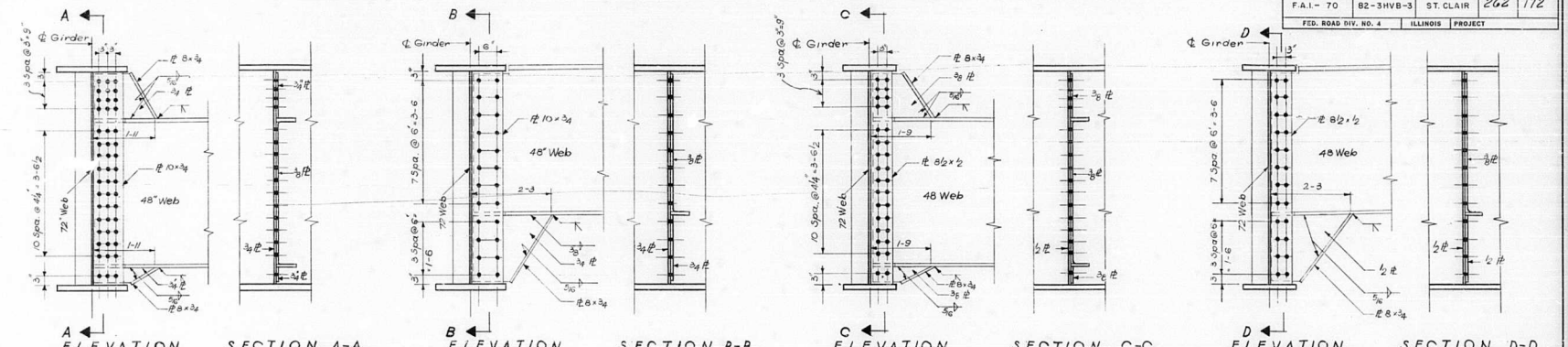
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-3

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

SHEET
104 or 163

A.T.
V.T.
S.A.B.
K.A.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.- 70	82-3HVB-3	ST. CLAIR	262	172
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



ELEVATION SECTION A-A — SPANS A35 THRU A37

INTERIOR FLOOR BEAM TO GIRDER CONNECTION

ELEVATION SECTION B-B

END FLOOR BEAM TO GIRDER CONNECTION

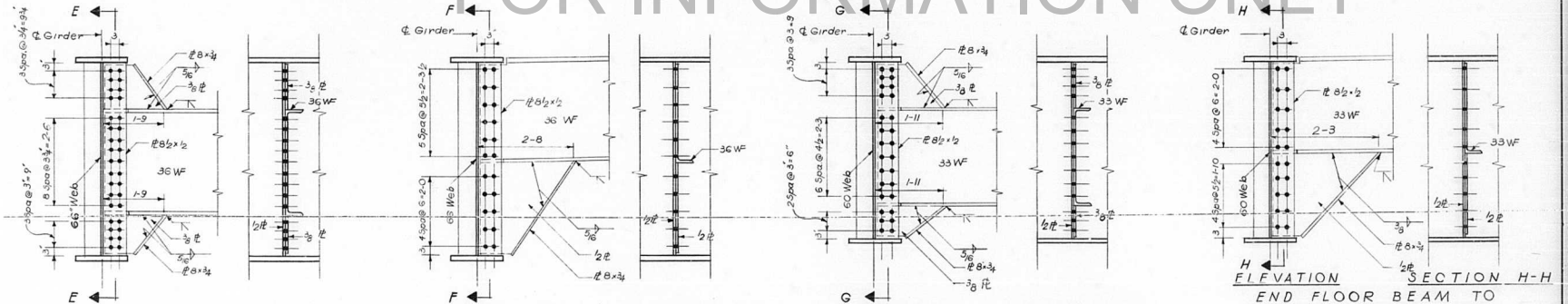
ELEVATION SECTION C-C — SPANS A38 THRU A40 AND D36 THRU D42

INTERIOR FLOOR BEAM TO GIRDER CONNECTION

ELEVATION SECTION D-D

END FLOOR BEAM TO GIRDER CONNECTION

72 WEB GIRDER



ELEVATION SECTION E-E — SPANS A29 THRU A34

INTERIOR FLOOR BEAM TO GIRDER CONNECTION

ELEVATION SECTION F-F

END FLOOR BEAM TO GIRDER CONNECTION

66 WEB GIRDER

ELEVATION SECTION G-G — SPANS S18 THRU D36-S

INTERIOR FLOOR BEAM TO GIRDER CONNECTION

ELEVATION SECTION H-H

END FLOOR BEAM TO GIRDER CONNECTION

60 WEB GIRDER

For Notes see Sh. No. 106

SIGNED BY A.A.
DRAWN BY E.C.
CHECKED BY A.T.
APPROVED BY K.A.

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

STEEL FRAMING DETAILS

SPAN A29 THRU A41 - D36 THRU D43 & S18 THRU D36S

POPLAR STREET BRIDGE APPROACHES

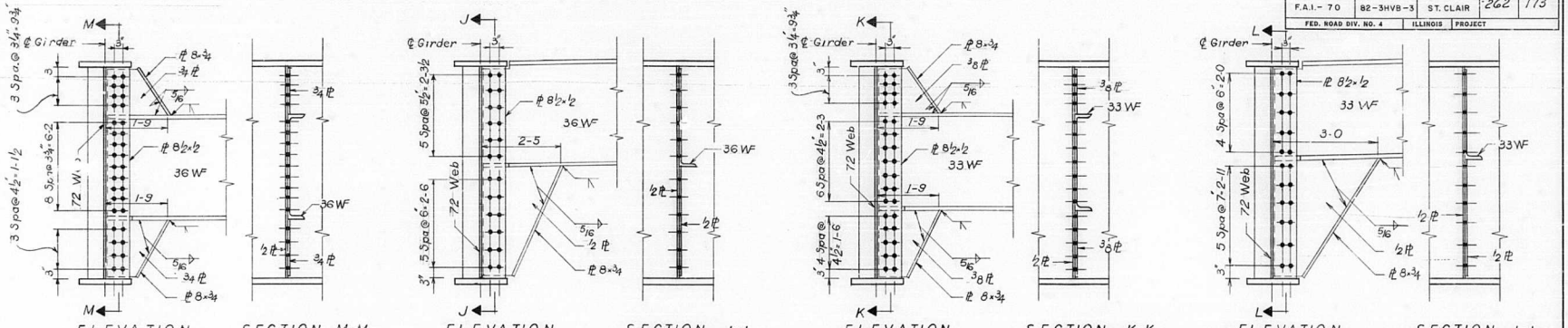
ROADWAY 'A' & 'D' - RAMP "S"

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

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

SHEET 105 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.- 70	82-3HVB-3	ST. CLAIR	262	173
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



ELEVATION — SECTION M-M
INTERIOR FLOOR BEAM TO GIRDER CONNECTION

ELEVATION — SECTION J-J
END FLOOR BEAM TO GIRDER CONNECTION

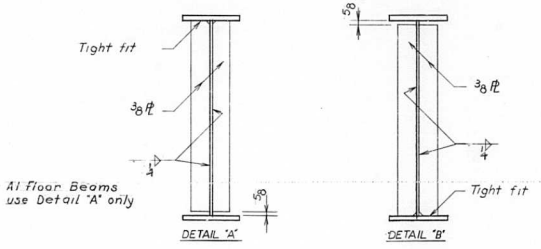
SPANS A41 THRU A42 AND D33 THRU D35

ELEVATION — SECTION K-K
INTERIOR FLOOR BEAM TO GIRDER CONNECTION

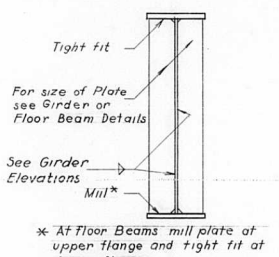
ELEVATION — SECTION L-L
END FLOOR BEAM TO GIRDER CONNECTION

SPANS T1 THRU T6

72 WEB GIRDER

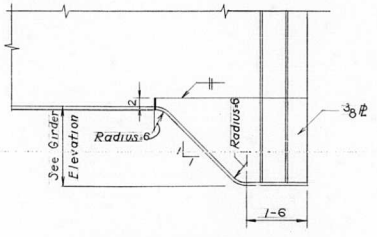


INTERMEDIATE STIFFENERS
FOR GIRDERS AND FLOOR BEAMS

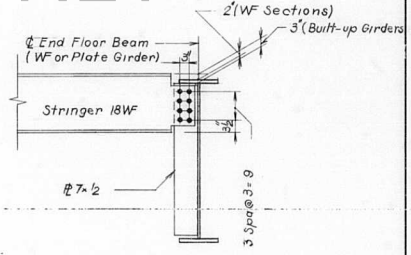


* At Floor Beams mill plate at upper flange and tight fit at lower flange

BEARING STIFFENERS
FOR GIRDERS AND FLOOR BEAMS



HAUNCH DETAIL
FOR LOCATION SEE GIRDER ELEVATION



STRINGER TO END FLOOR BEAM CONN.

NOTES

For size of flange plate welds see table I Sh. No. 107
Weld Connection PL's to the top flange and tight fit at the bottom flange in areas designated as Detail 'A'.
Weld Connection PL's to the bottom flange and tight fit at the top flange in areas designated as Detail 'B'.
For limits of Detail 'A' or Detail 'B' see the Girder Elevation Drawings.

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

STEEL FRAMING DETAILS

SPAN A41 THRU A43-D33 THRU D36 & T1 THRU T6
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A" & "D" - RAMP "T"

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

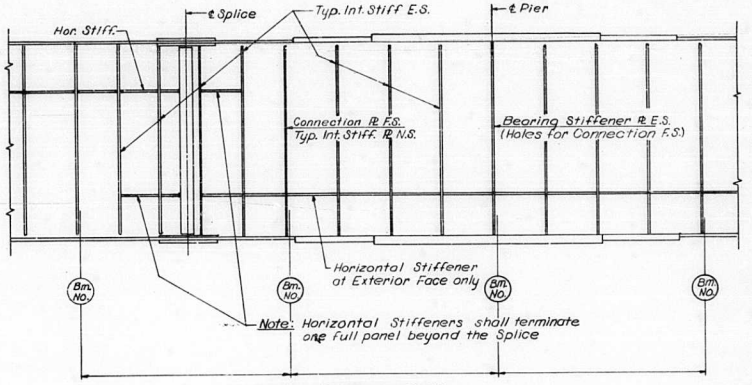
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 106 OF 163

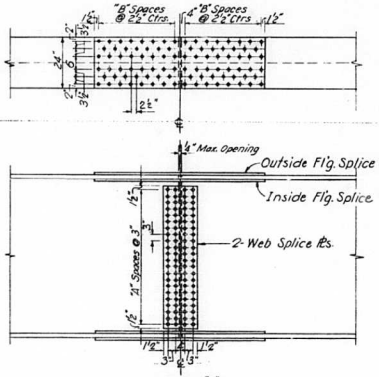
DESIGNED BY A.A
DRAWN BY E.C
CHECKED BY A.T
APPROVED BY K.A

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. – 70	82-3HVB-3	ST. CLAIR	262	174
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

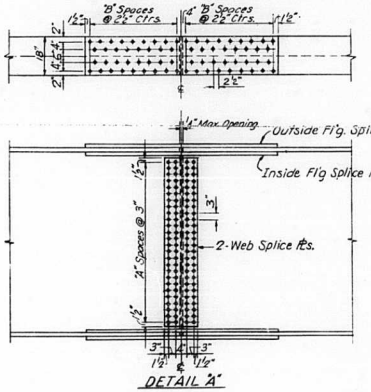
LOCATION	SPLICE NO.	LNG NO.	DETAIL	GIRDER SECTION		WEB SPLICE			FLANGE SPLICE		
				WEB PLATE	FLANGE PLATES	FILL PLATES	SPLICE PLATES	A	OUTSIDE PLATES	INSIDE PLATS	B
	1, 6, 8	59	A	3/8 C 1/2 x 66	18 x 1 1/2	2-64 x 1/16 x 5'-0	2-13 x 3/8 x 5'-0	19	2-18 x 7/8 x 6'-5	4-8 x 1 x 6-5	14
RDWY. "A"	10, 13	59	A	3/8 C 1/2 x 66	18 x 1 3/4	2-64 x 1/16 x 5'-0	2-13 x 3/8 x 5'-0	19	2-18 x 1 x 7-3	4-8 x 1/4 x 7-3	16
	14, 15	59	A	3/8 C 1/2 x 66	18 x 1'4	2-64 x 1/16 x 5'-0	2-13 x 3/8 x 5'-0	19	2-18 x 3/4 x 5-7	4-8 x 7/8 x 5-7	12
	16, 17, 18	59	A	3/8 C 1/2 x 66	18 x 1 1/2	2-64 x 1/16 x 5'-0	2-13 x 3/8 x 5'-0	19	2-18 x 5/8 x 4-9	4-8 x 3/4 x 4-9	10
	22, 23, 25	64	B	3/8 C 3/8 x 72	24 x 1 1/2	2-64 x 1/8 x 5'-6	2-13 x 3/8 x 5'-6	21	2-24 x 3/4 x 4-9	4-11 x 7/8 x 4-9	10
	26	64	D	3/8 C 3/8 x 72	24 x 1'4	2-64 x 1/8 x 5'-6	2-13 x 3/8 x 5'-6	21	2-24 x 3/4 x 4-9	4-11 x 7/8 x 4-9	10
	31	69	A	3/8 C 1/2 x 72	18 x 1'8	2-64 x 1/16 x 5'-6	2-13 x 3/8 x 5'-6	21	2-18 x 1 x 7-3	4-8 x 1/8 x 7-3	16
	32, 34	69	A	3/8 C 1/2 x 72	18 x 1 1/2	2-64 x 1/16 x 5'-6	2-13 x 3/8 x 5'-6	21	2-18 x 7/8 x 6-5	4-8 x 1 x 6-5	14
	40, 41	73	A	3/8 C 1/2 x 72	18 x 1 1/2	2-64 x 1/16 x 5'-6	2-13 x 3/8 x 5'-6	21	2-18 x 3/4 x 5-7	4-8 x 7/8 x 5-7	12
RDWY. "D"	4, 6, 9, 11	80	A	3/8 C 1/2 x 72	18 x 1 1/2	2-64 x 1/16 x 5'-6	2-13 x 3/8 x 5-6	21	2-18 x 7/8 x 6-5	4-8 x 1 x 6-5	14
	16	85	A	3/8 F 5/8 x 72	18 x 2'4	2-64 x 1/8 x 5'-6	2-13 x 3/8 x 5 - 6	21	2-18 x 1/8 x 8-1	4-8 x 1/4 x 8-1	18
	17, 18, 19, 20	85	A	3/8 C 3/8 x 72	18 x 1 3/8	2-64 x 1/8 x 5'-6	2-13 x 3/8 x 5 - 6	21	2-18 x 3/4 x 5-7	4-8 x 7/8 x 5-7	12
	21	85	A	3/8 C 3/8 x 72	18 x 1'8	2-64 x 1/8 x 5'-6	2-13 x 3/8 x 5 - 6	21	2-18 x 1 x 7-3	4-8 x 1/8 x 7-3	16
	25, 26, 27, 28	89	A	3/8 C 1/2 x 72	18 x 1'8	2-64 x 1/16 x 5'-6	2-13 x 3/8 x 5 - 6	21	2-18 x 5/8 x 4-9	4-8 x 3/4 x 4-9	10
	3, 5, 7	96	A	3/8 C 1/2 x 60	18 x 1 1/2	2-64 x 1/16 x 4-6	2-13 x 3/8 x 4-6	17	2-18 x 3/4 x 5-7	4-8 x 7/8 x 5-7	12
RAMP "S"	9	96	A	3/8 C 1/2 x 60	18 x 1'8	2-64 x 1/16 x 4-6	2-13 x 3/8 x 4-6	17	2-18 x 1 x 7-3	4-8 x 1/4 x 7-3	16
	14, 16, 18, 20	100	A	3/8 x 60	18 x 1/4	——	2-13 x 3/8 x 4-6	17	2-18 x 3/4 x 5-7	4-8 x 7/8 x 5-7	12
RAMP "T"	2, 4, 7, 9, 12, 14, 17, 19, 22, 24	104	A	5/8 x 72	18 x 1'8	——	2-13 x 3/8 x 5-6	21	2-18 x 3/4 x 5-7	4-8 x 7/8 x 5-7	12



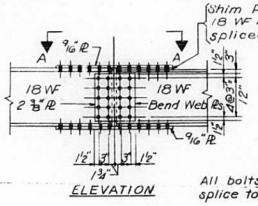
TYPICAL GIRDER DETAILS
(Exterior Face Shown)
Note: All Bearing Stiff. & Conn. Pls to be Vertical.



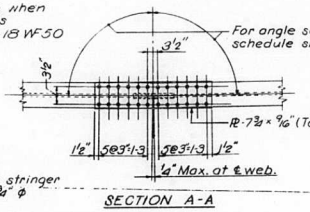
DETAIL "B"



DETAIL "A"



ELEVATION



All bolts for stringer splice to be 3/4" ϕ

SECTION A-A

STRINGER SPLICE

TABLE I	
Plate Size	Min. Weld
up to 3/4"	1/4"
Over 3/4" to 1 1/2"	5/16"
Over 1 1/2" to 2 1/4"	3/8"
Over 2 1/4" to 6"	1/2"

DESIGNED BY A. A.
DRAWN BY E. C.
CHECKED BY A. T.
APPROVED BY K. A.

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

GIRDER SPLICES

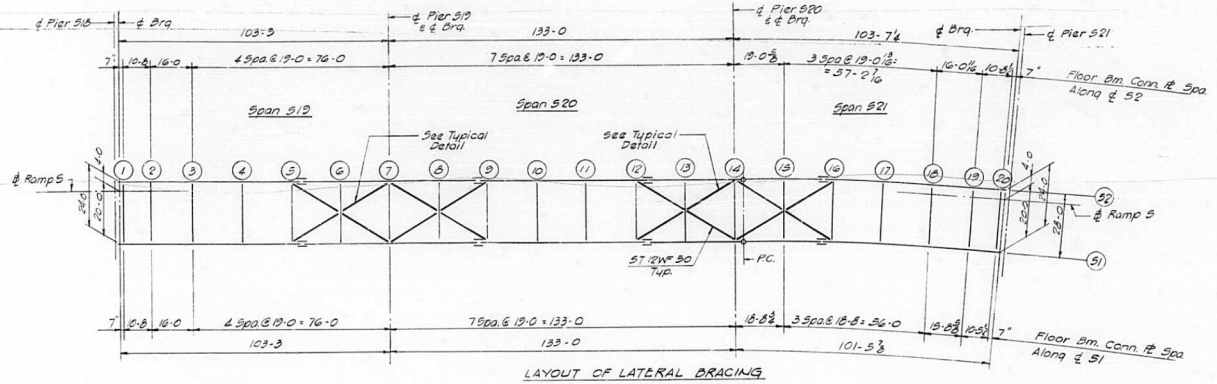
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A" & "D" – RAMP "S" & "T"

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

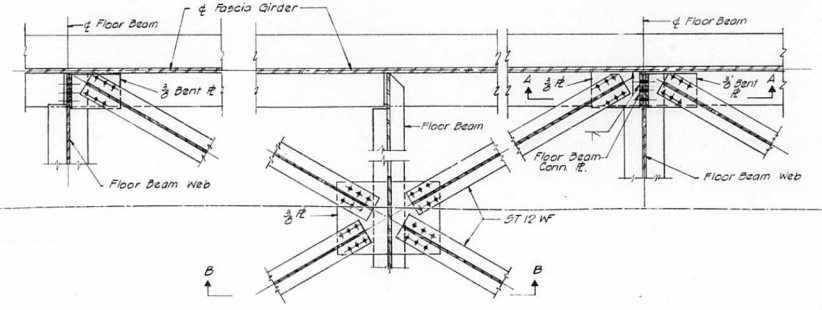
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 107 OF 163

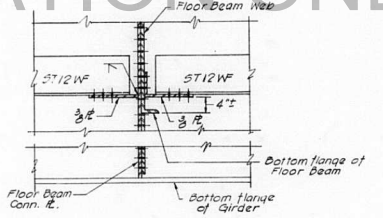
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. – 70	82-3HVB-3	ST. CLAIR	262	175
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



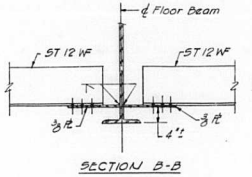
LAYOUT OF LATERAL BRACING



TYPICAL DETAIL



SECTION A-A



SECTION B-B

NOTE:
Weight of Bracing is included with Quantity for Structural Steel

DESIGNED BY A.T.
DRAWN BY V.T.
CHECKED BY A.T.
APPROVED BY K.A.

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

LATERAL BRACING

SPANS S19 THRU S21

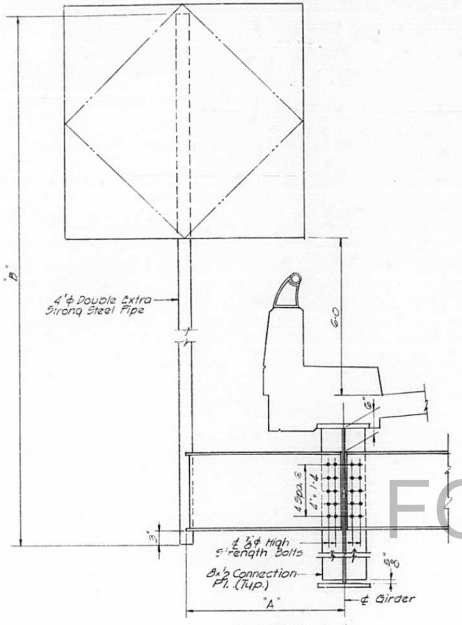
POPLAR STREET BRIDGE APPROACHES
RAMP "S"

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

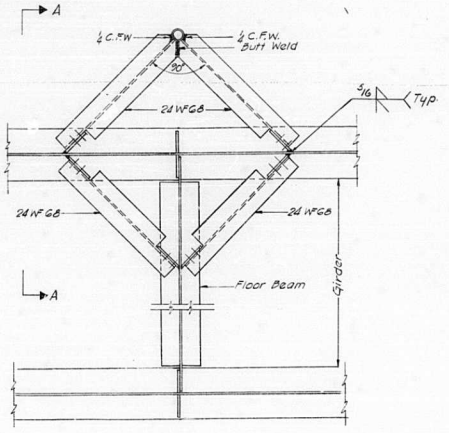
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET
108 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.- 70	82-3HVB-3	ST. CLAIR	262	176
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



SECTION A-A

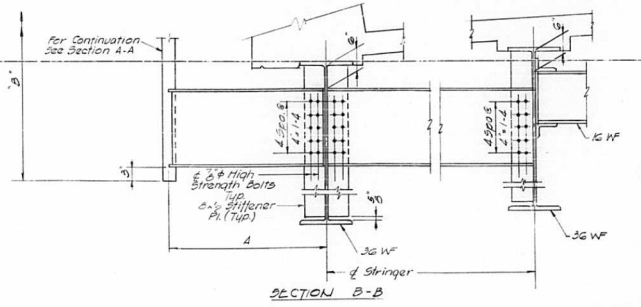


PLAN
FOR SIGN BRACKET
NO. 21, 22, 25, & 26

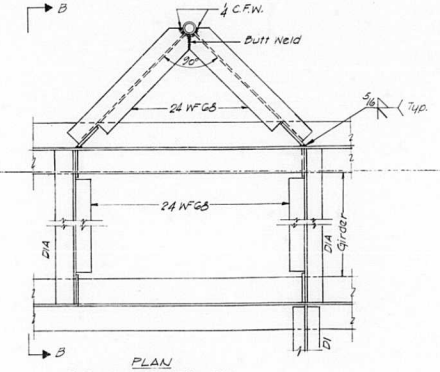
Table For Sign Bracket Dimensions

Sign Bracket	"A"	"B"	For Location See Sheet No.
No. 21	3-0	14-8	56
No. 22	3-0	14-8	56
No. 23	3-0	14-6	74
No. 24	3-0	14-6	74
No. 25	3-10	15-4	77
No. 26	3-10	15-4	77
No. 27	3-0	14-8	90
No. 28	3-0	14-8	90

NOTES:
Weight of Sign Bracket is included with Quantity for Structural Steel.



SECTION B-B



PLAN
FOR SIGN BRACKET
NO. 23, 24, 27, & 28

SIGN BRACKET DETAILS

DESIGNED BY A.T.
DRAWN BY T.T.
CHECKED BY A.T.
APPROVED BY K.A.

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

SIGN BRACKET DETAILS

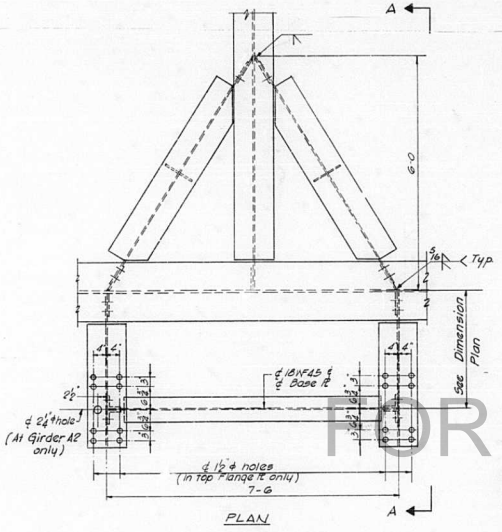
POPLAR STREET BRIDGE APPROACHES

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

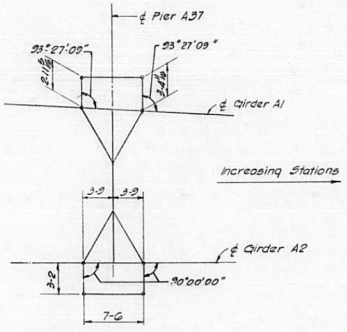
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET
109 OF 163

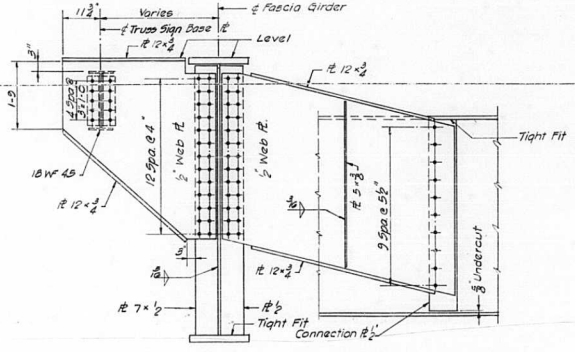
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.- 70	82-3HVB-3	ST. CLAIR	262	177
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	



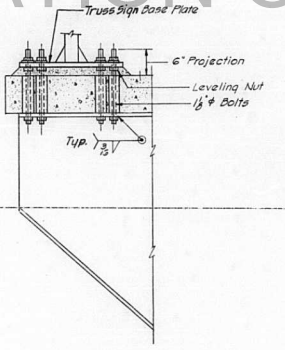
PLAN



DIMENSION PLAN
TRUSS SIGN SUPPORT
BRACKET NO. 15



SECTION A-A



DETAIL OF TRUSS SIGN
BASE PLATE

NOTES:
For location of Truss Sign Support Bracket see Sheet No. 60. Weight of Truss Sign Support Bracket is included with Quantity for Structural Steel.

DESIGNED BY A.T.
DRAWN BY V.T.
CHECKED BY A.T.
APPROVED BY K.A.

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

TRUSS SIGN SUPPORT

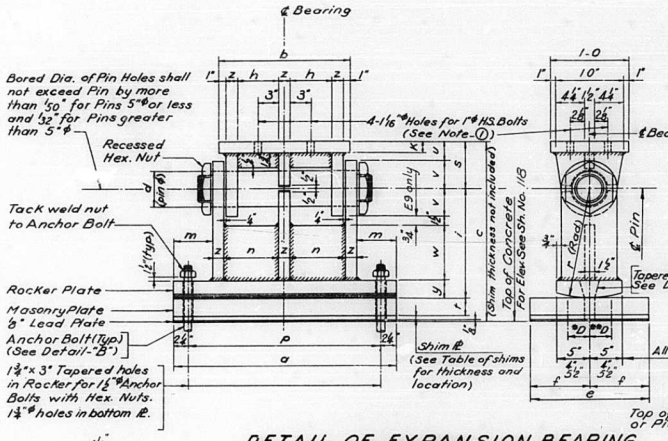
POPLAR STREET BRIDGE APPROACHES

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

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

SHEET
110 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	178
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



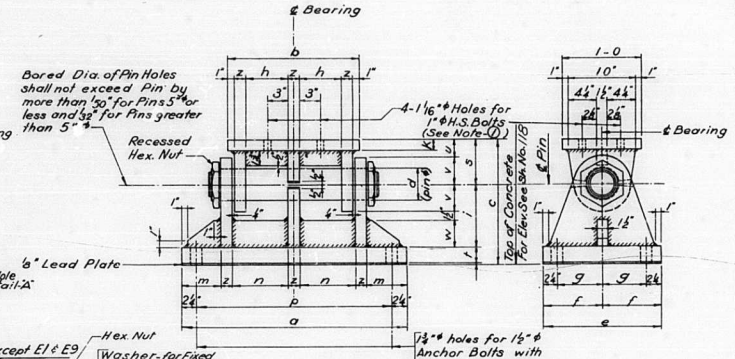


TABLE OF SHIMS

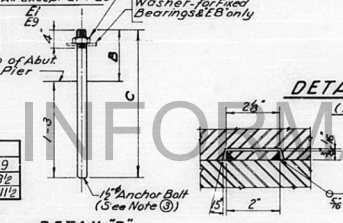
LOCATION		GIRDER	SHIM THICKNESS
PIER	SPAN		
A38	A37	A1 A2	3/8" 1/2"
A41	A40	A1 & A2	1/16"
A43	A43	A1 & A2	1/16"
A29	A29	A1 & A2	1/8"
D36	D35	D2	3/8"
D40	D39	D1 & D2	1/16"
D43	D43	D1 & D2	2 9/16"
S18	S19	S2	3/16"
S21	S21	S1 & S2	15/16"

Length and Width of Shims to be the same as the corresponding Base Plate.

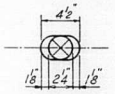
DETAIL OF EXPANSION BEARING

(For Dimensions See Table)

E1 Thru E7 & E9



ANCHOR BOLT DIMENSIONS								
Dimension	F1 thru F4	F5 thru F7	E1 & E2	E7	E3 thru E5	E6	E8	E9
B	5½	6½	7½		9½	11	6	8½
C	1'-8½	1'-9½	1'-10½		2'-0½	2'-2	1'-9	1'-11½



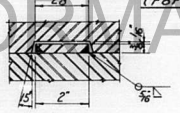
DETAIL-"A"

DETAIL-"B"

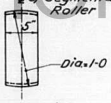
DETAIL OF FIXED BEARING

(For Dimensions See Table)

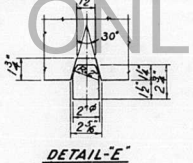
F1 Thru F7



DETAIL-"C"



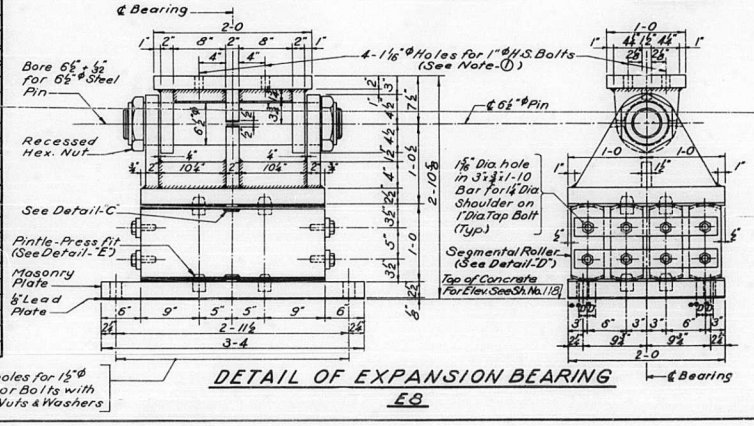
DETAIL-"D"



DETAIL-"E"

TYPE OF BEARING ASSEMBLY DIMENSIONS

TYPE OF BEARING	NO. REQ'D.	Dimension																				
		a	b	c	d	e	f	g	h	i	K	m	n	p	r	s	t	U	V	W	y	z
F1	12	2'-7	1'-8	1'-5⅛	5"	1'-0	6"	3⅜"	6⅜"	9⅛"	1⅜"	4⅝"	8⅝"	2'-2⅛"		6⅝"	2"	2⅜"	3⅜"	4"		1⅜"
F2	2	2'-8	1'-8	1'-6⅛	5"	1'-2	7"	4⅜"	6⅜"	9⅛"	1⅜"	5"	8⅝"	2'-3⅛"		6½"	2⅛"	2⅜"	3⅜"	4"		1⅜"
F3	8	2'-10	1'-8	1'-6⅛	5"	1'-4	8"	5⅜"	6⅜"	9⅛"	1⅜"	6"	8⅝"	2'-5⅛"		6½"	2⅝"	2⅜"	3⅜"	4"		1⅜"
F4	4	2'-10	1'-8	1'-6⅛	5½"	1'-6	9"	6⅜"	6⅜"	9⅝"	1⅜"	6"	8⅝"	2'-5⅛"		6⅜"	2⅝"	2⅜"	4"	4"		1⅜"
F5	2	3'-0	1'-8	1'-7⅛	6"	1'-8	10"	7⅜"	6⅜"	9⅜"	2"	7"	8⅝"	2'-7⅛"		7¼"	2⅜"	3"	4⅜"	4"		1⅜"
F6	2	3'-2	1'-8	1'-8⅜"	6"	1'-10	11"	8⅜"	6⅜"	9⅜"	2"	8"	8⅝"	2'-9⅛"		7¼"	3¼"	3"	4⅝"	4"		1⅜"
F7	2	3'-4	2'-0	1'-8⅜"	6½"	2'-0	1'-0	9⅜"	8"	10"	2"	6½"	10⅛"	2'-11⅛"		7½"	3¼"	3"	4⅝"	4"		2"
E1	26	2'-4	1'-6	1'-3⅜"	3⅝"	9"	4⅝"		5⅜"	7⅝"	1¼"	4"	7⅜"	1'-1⅛"	7⅝"	5½"	2"	2⅝"	3"	1'-5"	1⅜"	1⅜"
E2	26	2'-7	1'-8	1'-7⅛	5"	1'-0	6"		6½"	10"	1⅜"	4⅝"	8⅝"	2'-2⅛"	10"	6½"	2⅝"	2⅜"	3⅜"	2'-1"		1⅜"
E3	10	2'-8	1'-8	1'-8⅜"	5"	1'-2	7"		6⅜"	11"	1¼"	5"	8⅝"	2'-3⅛"	11"	6½"	3"	2⅜"	3⅜"	2'-5"		1⅜"
E4	6	2'-10	1'-10	1'-10⅜"	5"	1'-4	8"		7⅜"	1'-0⅛"	1⅜"	5"	9⅜"	2'-5⅛"	1'-0⅛"	6⅝"	3⅛"	2⅜"	3⅜"	2'-5½"		1⅜"
E5	6	2'-10	1'-10	2'-0⅜"	5½"	1'-6	9"		7⅜"	1'-5"	1⅜"	5"	9⅜"	2'-5⅛"	1'-5"	6⅜"	3½"	2⅜"	4"	2'-6½"		1⅜"
E6	6	3'-0	2'-0	2'-3⅜"	6"	1'-8	10"		8⅜"	1'-10"	2"	5"	10⅜"	2'-7⅛"	1'-10"	7⅛"	4"	3"	4½"	1'-1"	3⅛"	1⅜"
E7	4	2'-10	2'-0	1'-7⅛	5"	1'-0	6"		8⅜"	10"	1⅜"	4"	10⅜"	2'-5⅛"	10"	6½"	2⅝"	2⅜"	3⅜"	2'-2"		1⅜"
E8	2	(See Detail)																				
E9	2	2'-4	1'-6	1'-3⅜"	3½"	1'-2	7"		5⅜"	7⅝"	1¼"	4"	7⅜"	1'-1⅛"	7⅝"	5½"	2"	2⅜"	2⅜"	1'-4"	2⅜"	1⅜"



DETAIL OF EXPANSION BEARING

E8

NOTES:

① The 1"ϕ H.S. Bolts to be Bearing Type. Threads to be excluded from the contact surfaces.

② ⅝" Continuous Fillet Welds throughout for all Expansion & Fixed Bearings.

③ Anchor Bolts to be grouted into drilled holes after beams are in place.

*D = 1/100 ft. of expansion for every 15° below the normal temperature of 50°F.

**D = 1/100 ft. of expansion for every 15° above the normal temperature of 50°F.

DESIGNED BY A.T. & R.M.R.
DRAWN BY S.Q.B.
CHECKED BY R.M.R.
APPROVED BY K.A.

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

BEARING DETAILS

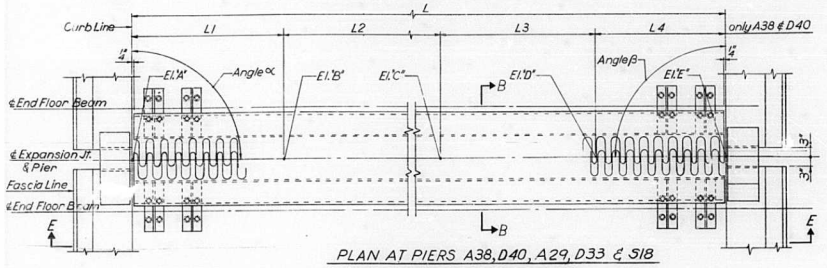
POPLAR STREET BRIDGE APPROACHES

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

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

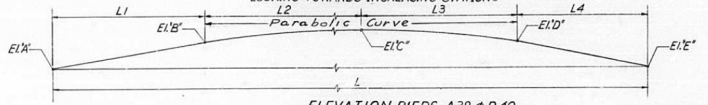
SHEET 111 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I — 70	82-3HVB-3	ST. CLAIR	262	179
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

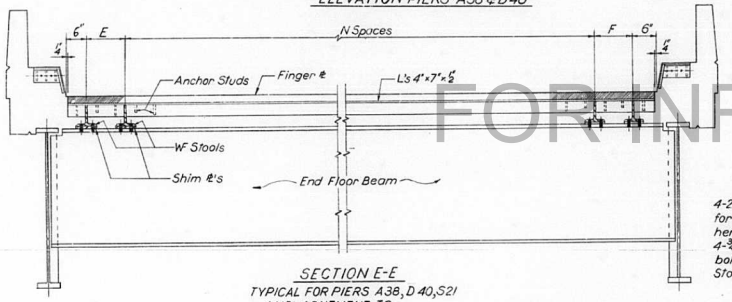


PLAN AT PIERS A38, D40, A29, D33 & S18

LOOKING TOWARDS INCREASING STATIONS

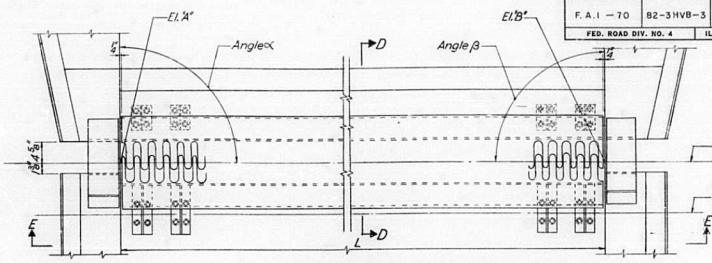


ELEVATION PIERS A38 & D40



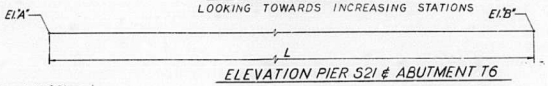
SECTION E-E

TYPICAL FOR PIERS A38, D40, S21 AND ABUTMENT T6

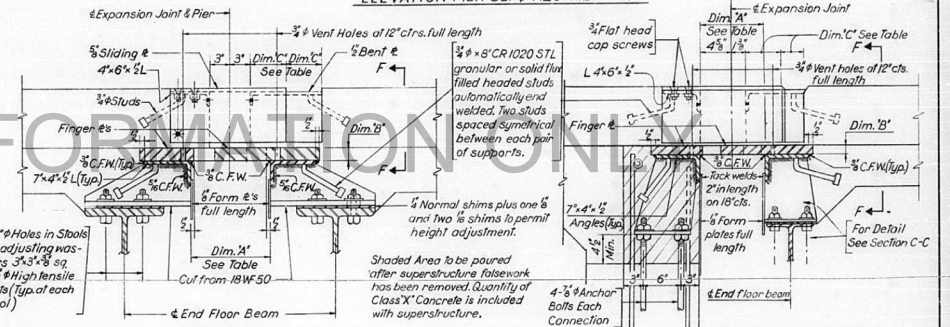


PLAN AT ABUTMENT T6

LOOKING TOWARDS INCREASING STATIONS

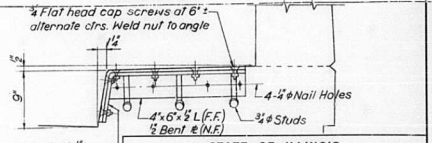


ELEVATION PIER S21 & ABUTMENT T6

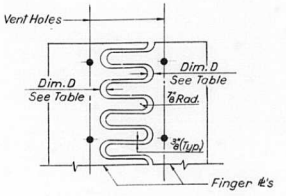


SECTION B-B

SECTION D-D



SECTION F-F



FINGER ℄ CUTTING DETAIL

TABLE OF ELEVATIONS, LENGTHS, ANGLES AND WEIGHTS OF FINGER EXPANSION DEVICES

LOCATION	ANGLE ∝	ANGLE β	ELEV.'A'	ELEV.'B'	ELEV.'C'	ELEV.'D'	ELEV.'E'	L1	L2	L3	L4	L	E	F	N SPACES	WEIGHT
Pier A38	86°-32'-51"	90°-00'-00"	445.99	446.47	446.59	446.47	446.41	22'-11⅝"	12'-0	12'-0	3'-0	49'-11⅝"	1'-6	1'-5⅛"	23@2'-0"=46'-0	15,610
Pier D40	88°-00'-48"	90°-00'-00"	441.31	441.67	441.80	441.67	441.61	17'-4	12'-0	12'-0	3'-0	44'-4	1'-8	1'-8	20@2'-0"=40'-0	15,310
Pier S21	90°-00'-00"	90°-00'-00"	469.93	468.17	—	—	—	—	—	—	—	22'-0	1'-6	1'-6	9@2'-0"=18'-0	7,090
Abut. T6	90°-00'-00"	90°-00'-00"	443.72	441.96	—	—	—	—	—	—	—	22'-0	1'-6	1'-6	9@2'-0"=18'-0	6,030

EXPANSION DEVICE TABLE

Location	Dimen.'A' at 50°F.	Dimen.'B' ℄ Thickness at 50°F.	Dimen.'C' at 50°F.	Dimen.'D' at 50°F.
Pier A38	11½	1⅞	3½	3¼
Pier D40	13	1⅞	4	3¾
Pier S21	10¾	1⅞	3½	3
Abut. T6	9¼	1⅞	3	2½
Pier A35	11⅛	1⅞	3½	3⅛
Pier A29	16⅜	2¼	5½	4⅜
Pier D33	12¼	1⅞	4	3½
Pier S18	10	1⅞	3	2¾

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Steel	Lbs.	44,040

Part of expansion device for piers D33 & S18 is obtained from contractor for section 82-3HVF. Part of expansion device for Pier A29 is obtained from contractor for section 82-3 HVB See special provisions.

NOTE:
Stool spacing to be adjusted to miss stiffener & connection plates on floor beams.

DESIGNED BY A.C.
DRAWN BY H.B.
CHECKED BY A.T.
APPROVED BY K.A.

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

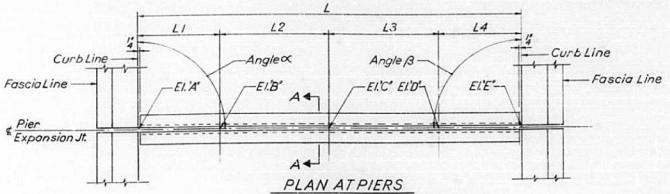
EXPANSION DEVICES

POPLAR STREET BRIDGE APPROACHES

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

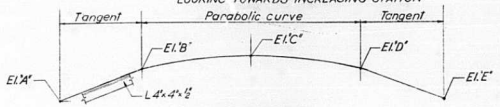
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 112 OF 163

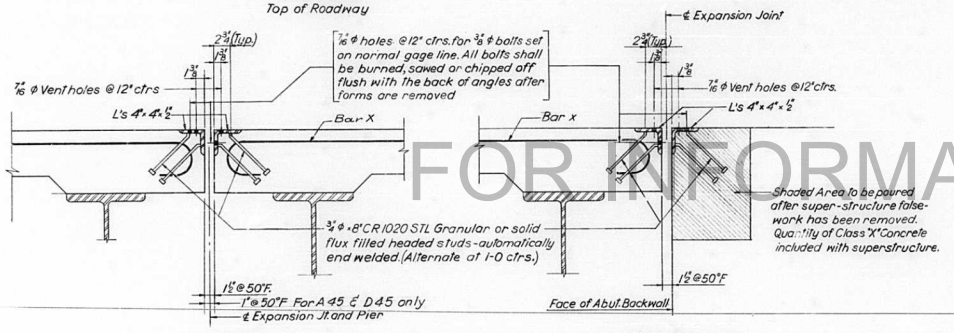


PLAN AT PIERS

A41, A43, A44, A45, D43, D44, D45
LOOKING TOWARDS INCREASING STATION



ELEVATION
Top of Roadway



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I — 70	82-3HVB-3	ST. CLAIR	262	180
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

TABLE
FOR ELEVATIONS, LENGTHS, ANGLES & WEIGHTS

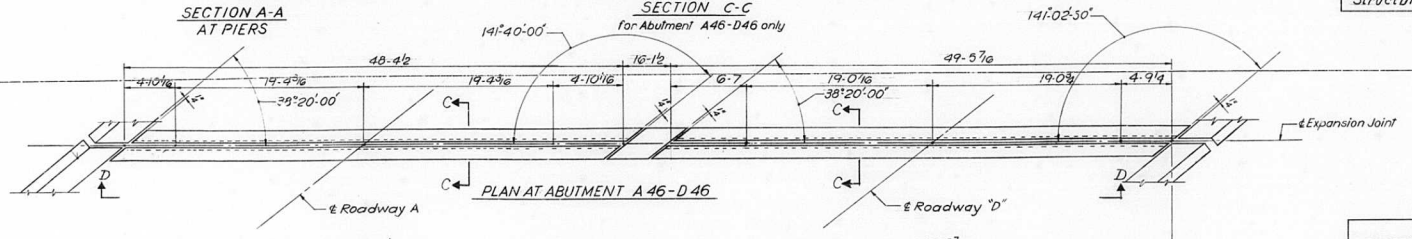
PIER NO.	ANGLE ∝	ANGLE β	ELEV. 'A'	ELEV. 'B'	ELEV. 'C'	ELEV. 'D'	ELEV. 'E'	L1	L2	L3	L4	L	WEIGHT
A 41	86°-32'-51"	90°-00'-00"	439.39	439.49	439.62	439.49	439.43	5-0 11/16	12-0	12-0	3-0	320 11/16	
A 43	90°-00'-00"	90°-00'-00"	434.87	434.94	435.06	434.94	434.87	3-0	12-0	12-0	3-0	30-0	
A 44	38°-20'-00"	141°-40'-00"	433.46	433.43	433.19	432.68	432.53	4-10 1/16	19-4 3/16	19-4 3/16	4-10 1/16	48-4½	
A 45	38°-20'-00"	141°-40'-00"	431.20	431.16	430.87	430.32	430.15	4-10 1/16	19-4 3/16	19-4 3/16	4-10 1/16	48-4½	
D 43	86°-11'-34"	90°-00'-00"	434.02	434.20	434.33	434.20	434.14	8-9	12-0	12-0	3-0	35-9	
D 44	38°-20'-00"	140°-20'-14"	432.40	432.29	431.98	431.43	431.26	11-1⅜	18-9	18-9⅜	4-8⅜	53-4⅜	
D 45	38°-20'-00"	140°-46'-10"	429.78	429.70	429.38	428.82	428.65	8-0⅜	18 11/16	18 11/16	4-8 3/16	50-7 1/16	

BILL OF MATERIAL

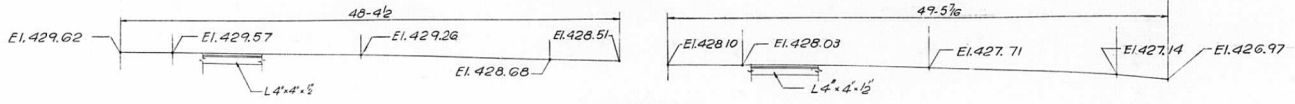
ITEM	UNIT	TOTAL
Structural steel	Lbs.	11,070

SECTION A-A
AT PIERS

SECTION C-C
for Abutment A46-D46 only



PLAN AT ABUTMENT A 46-D 46



SECTION D-D

DESIGNED BY A.C.
DRAWN BY H.B.
CHECKED BY A.T.
APPROVED BY K.A.

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

EXPANSION DEVICES

POPLAR STREET BRIDGE APPROACHES

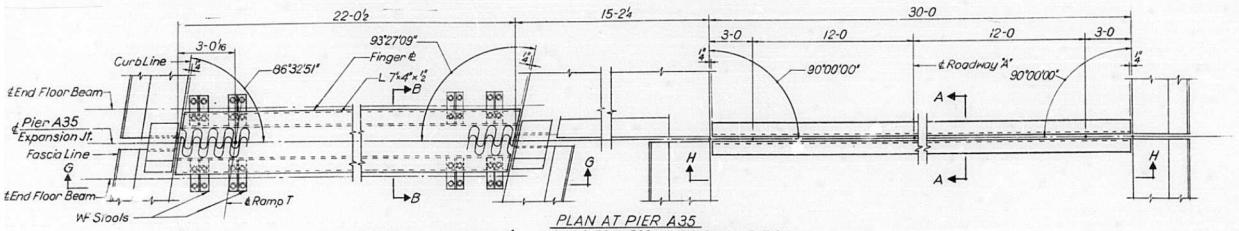
ABUTMENT "A" & "D"

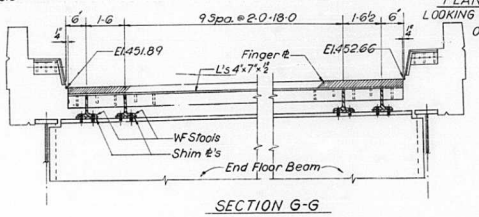
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-3

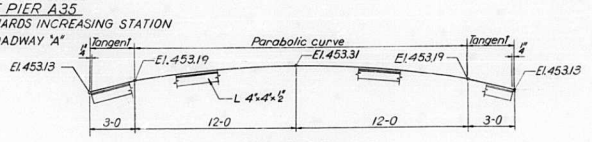
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 113 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I – 70	82-3HVB-3	ST. CLAIR	262	181
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

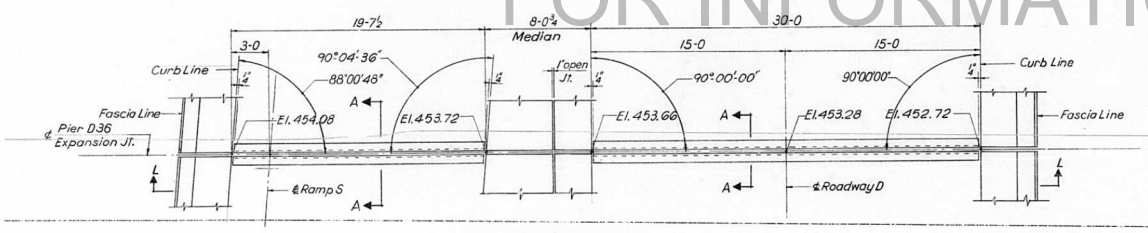


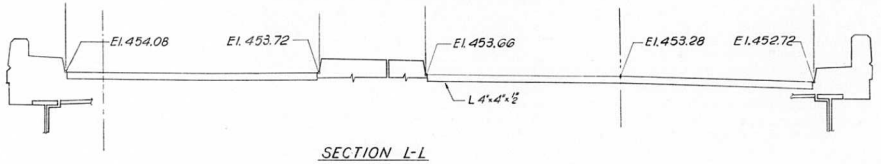




EXPANSION DEVICES PIER A35

BILL OF MATERIAL		
ITEM	UNIT	TOTAL
Structural Steel	Lbs.	9,300





EXPANSION DEVICES PIER D36

For Section A-A see sheet No. 113

For Section B-B see sheet No. 112

DESIGNED BY A.C.
DRAWN BY H.B.
CHECKED BY A.T.
APPROVED BY K.A.

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

EXPANSION DEVICES

POPLAR STREET BRIDGE APPROACHES
ROADWAY "A" & "D"

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

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

SHEET
114 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82-3HVB-3	ST. CLAIR	262	182
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

SPAN A43
SIMPLE SPAN COMPOSITE BEAM
TABLE OF MOMENTS AND SHEARS - STRINGER A1

	STEEL SECTION MAX. MOMENT
D.L.	488
	COMPOSITE SECTION MAX. MOMENT
S.D.L.	81
L.L.	9[illegible]
Imp.	64
Total	378

	SHEAR Supp't.	¼ point	½ point
S.D.L.	6	3	0
L.L.	19	13	8
Imp.	5	4	2
Total	30	20	10

PROPERTIES

Steel Section	
Is	24693
Sts	641
Sbs	715
Composite Section	
Ic	77688
Stc	24430
Sac	1113

SPAN A43
SIMPLE SPAN COMPOSITE BEAM
TABLE OF MOMENTS AND SHEARS - STRINGER A2

	STEEL SECTION MAX. MOMENT
D.L.	1293
	COMPOSITE SECTION MAX. MOMENT
S.D.L.	235
L.L.	459
Imp.	103
Total	794

	SHEAR Supp't.	¼ point	½ point
S.D.L.	10	5	—
L.L.	20	15	9
Imp.	5	3	3
Total	35	23	12

PROPERTIES

Steel Section	
Is	36328
Sts	1200
Sbs	842
Composite Section	
Ic	97349
Stc	22165
Sac	1258

SPAN A43
SIMPLE SPAN COMPOSITE BEAM
TABLE OF MOMENTS AND SHEARS - STRINGER A3

	STEEL SECTION MAX. MOMENT
D.L.	525
	COMPOSITE SECTION MAX. MOMENT
S.D.L.	119
L.L.	678
Imp.	176
Total	966

	SHEAR Supp't.	¼ point	½ point
S.D.L.	7	3	—
L.L.	45	33	20
Imp.	12	8	5
Total	64	44	25

PROPERTIES

Steel Section	
Is	10674
Sts	491
Sbs	721
Composite Section	
Ic	91346
Stc	4573
Sac	1036

SPAN A43
SIMPLE SPAN COMPOSITE BEAM
TABLE OF MOMENTS AND SHEARS - STRINGER A4

	STEEL SECTION MAX. MOMENT
D.L.	731
	COMPOSITE SECTION MAX. MOMENT
S.D.L.	145
L.L.	608
Imp.	200
Total	1156

	SHEAR Supp't.	¼ point	½ point
S.D.L.	8	4	—
L.L.	46	34	21
Imp.	11	8	5
Total	65	46	26

PROPERTIES

Steel Section	
Is	14265
Sts	644
Sbs	931
Composite Section	
Ic	88129
Stc	4445
Sac	1323

SPAN A43
SIMPLE SPAN COMPOSITE BEAM
TABLE OF MOMENTS AND SHEARS - STRINGER A5

	STEEL SECTION MAX. MOMENT
D.L.	986
	COMPOSITE SECTION MAX. MOMENT
S.D.L.	199
L.L.	939
Imp.	221
Total	1349

	SHEAR Supp't.	¼ point	½ point
S.D.L.	9	4	—
L.L.	47	33	22
Imp.	11	7	5
Total	67	46	27

PROPERTIES

Steel Section	
Is	17682
Sts	758
Sbs	1177
Composite Section	
Ic	96253
Stc	4360
Sac	1667

SPAN A44
SIMPLE SPAN COMPOSITE BEAM
TABLE OF MOMENTS AND SHEARS - STRINGERS A1 & A2

	STEEL SECTION MAX. MOMENT
D.L.	1131
	COMPOSITE SECTION MAX. MOMENT
S.D.L.	157
L.L.	397
Imp.	94
Total	678

	SHEAR Supp't.	¼ point	½ point
S.D.L.	9	4	—
L.L.	20	13	9
Imp.	5	3	2
Total	34	22	11

PROPERTIES

Steel Section	
Is	15943
Sts	721
Sbs	946
Composite Section	
Ic	102052
Stc	10042
Sac	1342

SPAN A44
SIMPLE SPAN COMPOSITE BEAM
TABLE OF MOMENTS AND SHEARS - STRINGERS A3, A4, & A5

	STEEL SECTION MAX. MOMENT
D.L.	386
	COMPOSITE SECTION MAX. MOMENT
S.D.L.	189
L.L.	939
Imp.	221
Total	1349

	SHEAR Supp't.	¼ point	½ point
S.D.L.	9	4	—
L.L.	47	33	22
Imp.	11	7	5
Total	67	46	27

PROPERTIES

Steel Section	
Is	17682
Sts	758
Sbs	1177
Composite Section	
Ic	96253
Stc	4360
Sac	1667

SPAN A45
SIMPLE SPAN COMPOSITE BEAM
TABLE OF MOMENTS AND SHEARS - STRINGERS A1 & A2

	STEEL SECTION MAX. MOMENT
D.L.	408
	COMPOSITE SECTION MAX. MOMENT
S.D.L.	73
L.L.	238
Imp.	66
Total	377

	SHEAR Supp't.	¼ point	½ point
S.D.L.	5	3	—
L.L.	20	13	8
Imp.	6	4	4
Total	31	20	12

PROPERTIES

Steel Section	
Is	9866
Sts	469
Sbs	582
Composite Section	
Ic	58939
Stc	4973
Sac	858

SPAN A45
SIMPLE SPAN COMPOSITE BEAM
TABLE OF MOMENTS AND SHEARS - STRINGERS A3, A4, & A5

	STEEL SECTION MAX. MOMENT
D.L.	333
	COMPOSITE SECTION MAX. MOMENT
S.D.L.	73
L.L.	599
Imp.	136
Total	765

	SHEAR Supp't.	¼ point	½ point
S.D.L.	5	3	—
L.L.	48	33	22
Imp.	13	10	6
Total	66	46	28

PROPERTIES

Steel Section	
Is	9866
Sts	469
Sbs	582
Composite Section	
Ic	58939
Stc	4973
Sac	858

SPAN D43
SIMPLE SPAN COMPOSITE BEAM
TABLE OF MOMENTS AND SHEARS - STRINGER D1

	STEEL SECTION MAX. MOMENT
D.L.	428
	COMPOSITE SECTION MAX. MOMENT
S.D.L.	81
L.L.	233
Imp.	64
Total	378

	SHEAR Supp't.	¼ point	½ point
S.D.L.	6	3	0
L.L.	19	13	8
Imp.	5	4	2
Total	30	20	10

PROPERTIES

Steel Section	
Is	24693
Sts	641
Sbs	715
Composite Section	
Ic	77688
Stc	24430
Sac	1113

SPAN D43
SIMPLE SPAN COMPOSITE BEAM
TABLE OF MOMENTS AND SHEARS - STRINGER D2

	STEEL SECTION MAX. MOMENT
D.L.	1225
	COMPOSITE SECTION MAX. MOMENT
S.D.L.	225
L.L.	416
Imp.	95
Total	736

	SHEAR Supp't.	¼ point	½ point
S.D.L.	10	5	—
L.L.	19	14	9
Imp.	4	3	2
Total	33	22	11

PROPERTIES

Steel Section	
Is	34807
Sts	822
Sbs	1078
Composite Section	
Ic	97800
Stc	19143
Sac	1259

SPAN D43
SIMPLE SPAN COMPOSITE BEAM
TABLE OF MOMENTS AND SHEARS - STRINGER D3

	STEEL SECTION MAX. MOMENT
D.L.	420
	COMPOSITE SECTION MAX. MOMENT
S.D.L.	90
L.L.	574
Imp.	154
Total	818

	SHEAR Supp't.	¼ point	½ point
S.D.L.	6	3	—
L.L.	42	30	18
Imp.	11	8	4
Total	59	41	22

PROPERTIES

Steel Section	
Is	29713
Sts	476
Sbs	618
Composite Section	
Ic	97800
Stc	19143
Sac	1259

SPAN D43
SIMPLE SPAN COMPOSITE BEAM
TABLE OF MOMENTS AND SHEARS - STRINGER D4

	STEEL SECTION MAX. MOMENT
D.L.	573
	COMPOSITE SECTION MAX. MOMENT
S.D.L.	120
L.L.	687
Imp.	175
Total	982

	SHEAR Supp't.	¼ point	½ point
S.D.L.	7	3	—
L.L.	43	31	19
Imp.	11	8	4
Total	61	42	23

PROPERTIES

Steel Section	
Is	10970
Sts	426
Sbs	754
Composite Section	
Ic	90549
Stc	4913
Sac	1105

SPAN D43
SIMPLE SPAN COMPOSITE BEAM
TABLE OF MOMENTS AND SHEARS - STRINGER D5

	STEEL SECTION MAX. MOMENT
D.L.	775
	COMPOSITE SECTION MAX. MOMENT
S.D.L.	194
L.L.	807
Imp.	196
Total	1157

	SHEAR Supp't.	¼ point	½ point
S.D.L.	8	4	—
L.L.	43	32	20
Imp.	11	7	5
Total	62	43	25

PROPERTIES

Steel Section	
Is	14068
Sts	548
Sbs	965
Composite Section	
Ic	93535
Stc	4817
Sac	1371

SPAN D43
SIMPLE SPAN COMPOSITE BEAM
TABLE OF MOMENTS AND SHEARS - STRINGER D6

	STEEL SECTION MAX. MOMENT
D.L.	965
	COMPOSITE SECTION MAX. MOMENT
S.D.L.	179
L.L.	883
Imp.	202
Total	1244

	SHEAR Supp't.	¼ point	½ point
S.D.L.	8	4	—
L.L.	41	30	19
Imp.	10	7	5
Total	59	41	24

PROPERTIES

Steel Section	
Is	17393
Sts	758
Sbs	1145
Composite Section	
Ic	81860
Stc	4027
Sac	1620

SPAN D44
SIMPLE SPAN COMPOSITE BEAM
TABLE OF MOMENTS AND SHEARS - STRINGERS D1 & D2

	STEEL SECTION MAX. MOMENT
D.L.	1152
	COMPOSITE SECTION MAX. MOMENT
S.D.L.	187
L.L.	397
Imp.	94
Total	678

	SHEAR Supp't.	¼ point	½ point
S.D.L.	9	4	—
L.L.	20	15	9
Imp.	5	3	2
Total	34	22	11

PROPERTIES

Steel Section	
Is	15843
Sts	721
Sbs	946
Composite Section	
Ic	102052
Stc	10042
Sac	1342

SPAN D44
SIMPLE SPAN COMPOSITE BEAM
TABLE OF MOMENTS AND SHEARS - STRINGERS D3 & D4

	STEEL SECTION MAX. MOMENT
D.L.	1152
	COMPOSITE SECTION MAX. MOMENT
S.D.L.	189
L.L.	939
Imp.	221
Total	1349

	SHEAR Supp't.	¼ point	½ point
S.D.L.	9	4	—
L.L.	47	35	22
Imp.	11	7	5
Total	67	46	27

PROPERTIES

Steel Section	
Is	17682
Sts	758
Sbs	1177
Composite Section	
Ic	96253
Stc	4360
Sac	1667

SPAN D44
SIMPLE SPAN COMPOSITE BEAM
TABLE OF MOMENTS AND SHEARS - STRINGER D5

	STEEL SECTION MAX. MOMENT
D.L.	986
	COMPOSITE SECTION MAX. MOMENT
S.D.L.	189
L.L.	939
Imp.	221
Total	1349

	SHEAR Supp't.	¼ point	½ point
S.D.L.	9	4	—
L.L.	47	35	22
Imp.	11	7	5
Total	67	46	27

PROPERTIES

Steel Section	
Is	17682
Sts	758
Sbs	1177
Composite Section	
Ic	96253
Stc	4360
Sac	1667

SPAN D44
SIMPLE SPAN COMPOSITE BEAM
TABLE OF MOMENTS AND SHEARS - STRINGER D6

	STEEL SECTION MAX. MOMENT
D.L.	986
	COMPOSITE SECTION MAX. MOMENT
S.D.L.	189
L.L.	939
Imp.	221
Total	1349

	SHEAR Supp't.	¼ point	½ point
S.D.L.	9	4	—
L.L.	47	35	22
Imp.	11	7	5
Total	67	46	27

PROPERTIES

Steel Section	
Is	17682
Sts	758
Sbs	1177
Composite Section	
Ic	96253
Stc	4360
Sac	1667

SPAN D45
SIMPLE SPAN COMPOSITE BEAM
TABLE OF MOMENTS AND SHEARS - STRINGERS D1 & D2

	STEEL SECTION MAX. MOMENT
D.L.	439
	COMPOSITE SECTION MAX. MOMENT
S.D.L.	73
L.L.	238
Imp.	66
Total	377

	SHEAR Supp't.	¼ point	½ point
S.D.L.	5	3	—
L.L.	20	14	9
Imp.	6	5	3
Total	31	22	12

PROPERTIES

Steel Section	
Is	9366
Sts	469
Sbs	582
Composite Section	
Ic	59000
Stc	25036
Sac	1012

SPAN D45
SIMPLE SPAN COMPOSITE BEAM
TABLE OF MOMENTS AND SHEARS - STRINGERS D3, D4, & D5

	STEEL SECTION MAX. MOMENT
D.L.	933
	COMPOSITE SECTION MAX. MOMENT
S.D.L.	73
L.L.	559
Imp.	136
Total	768

	SHEAR Supp't.	¼ point	½ point
S.D.L.	5	3	—
L.L.	48	33	22
Imp.	13	10	6
Total	66	46	28

PROPERTIES

Steel Section	
Is	9366
Sts	469
Sbs	582
Composite Section	
Ic	58939
Stc	4973
Sac	858

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
SIMPLE SPANS

POPLAR STREET BRIDGE APPROACHES

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

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

SHEET 115 OF 163

NED BY AT
N BY GG
IED BY AT
WED BY KA

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82–3HVB–3	ST. CLAIR	262	183
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

Table of Moments and Reactions
Spans A29 thru A34

		Moment											Reaction						
		.4 Span A29	.5 Span A30	.5 Span A31	.5 Span A32	.5 Span A33	.6 Span A34	Pier A30	Pier A31	Pier A32	Pier A33	Pier A34	Pier A29	Pier A30	Pier A31	Pier A32	Pier A33	Pier A34	Pier A35
Dead Load	Primary	1156	983	1049	986	938	1030	2529	2435	2522	2297	2451	86	301	353	298	345	295	83
	Secondary	33	28	30	—	—	—	58	56	58	—	—	2	2	3	2	3	2	2
Live Load	Primary	995	990	1110	1090	960	950	1100	1230	1290	1200	1070	71	112	123	118	122	111	70
	Secondary	28	28	31	—	—	—	25	26	30	—	—	2	1	1	1	1	1	2
Impact		244	222	240	214	223	236	266	272	286	270	254	18	27	28	26	28	27	18
Centrifugal Force		124	121	135	—	—	—	137	150	158	—	—	9	14	15	14	15	14	9
Total		2580	2372	2595	2320	2121	2276	4115	4171	4344	3767	3775	188	457	523	459	514	450	184
Section Modulus		2043	2043	2339	1746	1603	1603	3160	3160	3311	2576	2425	—	—	—	—	—	—	—
Torque Loading	Dead Load	11	9	12	—	—	—	20	21	23	—	—							
	Live Load	10	10	12	—	—	—	9	11	12	—	—							
	Impact	2	2	3	—	—	—	2	2	3	—	—							
	Total	23	21	27	—	—	—	31	34	38	—	—							
	Section Modulus	81	81	95	—	—	—	128	128	135	—	—							

Table of Moments and Reactions
Spans A35 thru A37

		Moment					Reaction			
		.4 Span A35	.5 Span A36	.6 Span A37	Pier A36	Pier A37	Pier A35	Pier A36	Pier A37	Pier A38
Dead Load	Primary	2620	2279	2032	5769	5189	171	586	530	138
	Secondary	—	—	—	—	—	—	—	—	—
Live Load	Primary	1800	1880	1640	2080	2000	111	187	180	103
	Secondary	—	—	—	—	—	—	—	—	—
Impact		418	398	380	463	456	26	42	40	24
Centrifugal Force		—	—	—	—	—	—	—	—	—
Total		4838	4557	4052	8312	7645	308	815	750	265
Section Modulus		2904	2904	2470	5691	5259	—	—	—	—

Table of Moments and Reactions
Spans A38 thru A40

		Moment					Reaction			
		.4 Span A38	.5 Span A39	.6 Span A40	Pier A39	Pier A40	Pier A38	Pier A39	Pier A40	Pier A41
Dead Load	Primary	2335	1705	1832	4746	4258	141	463	423	115
	Secondary	—	—	—	—	—	—	—	—	—
Live Load	Primary	1660	1600	1480	1850	1780	97	162	154	88
	Secondary	—	—	—	—	—	—	—	—	—
Impact		377	329	341	410	384	22	36	34	20
Centrifugal Force		—	—	—	—	—	—	—	—	—
Total		4372	3634	3653	7006	6422	260	666	611	223
Section Modulus		2743	2256	2256	4939	4458	—	—	—	—

Table of Moments and Reactions
Spans A41 & A42

		Moment			Reaction	
		.4 Span A41 .6 Span A42	Pier A42	—	Piers A41 & A43	Pier A42
Dead Load	Primary	1977	4259	—	114	401
	Secondary	—	—	—	—	—
Live Load	Primary	1365	1420		74	127
	Secondary	—	—	—	—	—
Impact		304	323		17	29
Centrifugal Force		—	—	—	—	—
Total		3636	6002	—	205	557
Section Modulus		2256	3970	—	—	—

Table of Moments and Reactions
Spans D33 thru D36

		Moment					Reaction			
		.4 Span D33	.5 Span D34	.6 Span D35	Pier D34	Pier D35	Pier D33	Pier D34	Pier D35	Pier D36
Dead Load	Primary	1400	1384	1330	3313	3295	94	344	342	92
	Secondary	40	40	38	76	75	3	3	3	3
Live Load	Primary	1152	1175	1118	1320	1300	72	120	119	72
	Secondary	33	34	32	30	30	2	1	1	2
Impact		272	251	264	291	300	17	27	27	17
Centrifugal Force		142	143	138	161	160	9	15	15	9
Total		3039	3027	2920	5191	5160	197	510	507	195
Section Modulus		2256	2256	2256	3648	3648	—	—	—	—
Torque Loading	Dead Load	12	11	11	23	23				
	Live Load	10	10	9	9	9				
	Impact	2	2	2	2	2				
	Total	24	23	22	34	34				
	Section Modulus	81	81	81	135	135				

Table of Moments and Reactions
Spans D36 thru D39

		Moment						Reaction				
		.4 Span D36	.5 Span D37	.5 Span D38	.6 Span D39	Pier D37	Pier D38	Pier D39	Pier D36	Pier D37	Pier D38	Pier D39	Pier D40
Dead Load	Primary	2920	1417	1455	2365	5072	3608	4477	170	525	424	466	141
	Secondary	—	—	—	—	—	—	—	—	—	—	—	—
Live Load	Primary	1785	1545	1475	1600	1895	1795	1760	105	174	165	162	94
	Secondary	—	—	—	—	—	—	—	—	—	—	—	—
Impact		405	345	331	369	425	402	400	24	39	37	37	22
Centrifugal Force		—	—	—	—	—	—	—	—	—	—	—	—
Total		5110	3307	3261	4334	7392	5805	6637	299	738	626	665	257
Section Modulus		3224	2090	2090	2743	4876	3749	4295	—	—	—	—	—

Table of Moments and Reactions
Span D40 thru D42

		Moment					Reaction			
		.4 Span D40	.5 Span D41	.6 Span D42	Pier D41	Pier D42	Pier D40	Pier D41	Pier D42	Pier D43
Dead Load	Primary	1420	1322	1240	3252	3114	108	381	363	96
	Secondary	—	—	—	—	—	—	—	—	—
Live Load	Primary	1230	1220	1205	1321	1320	87	135	134	87
	Secondary	—	—	—	—	—	—	—	—	—
Impact		306	272	303	310	310	22	32	32	22
Centrifugal Force		—	—	—	—	—	—	—	—	—
Total		2956	2814	2748	4883	4744	217	548	529	205
Section Modulus		1776	1776	1776	3168	3168	—	—	—	—

DESIGNED BY A.T.
DRAWN BY I.M.
CHECKED BY S.A.B.
APPROVED BY K.A.

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

STRESS TABLES

POPLAR STREET BRIDGE APPROACHES

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

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

SHEET 116 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82-3HVB-3	ST. CLAIR	262	184
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

Table of Moments and Reactions
Spans S19 thru S21

		Moment					Reaction			
		4 Span S19	5 Span S20	6 Span S21	Pier S19	Pier S20	Pier S18	Pier S19	Pier S20	Pier S21
Dead Load	Primary	1769	1711	1857	4212	4306	99	359	363	101
	Secondary	—	—	33	—	61	—	—	2	2
Live Load	Primary	940	950	958	1190	1205	48	90	90	48
	Secondary	—	—	17	—	17	—	—	1	1
Impact		203	183	205	246	246	10	18	18	10
Centrifugal force		--	—	92	—	114	—	—	9	5
Total		2912	2844	3162	5648	5949	157	467	483	167
Section Modulus		1835	1835	2242	3655	4060	—	—	—	—
Torque Loading	Dead Load	—	—	13	—	23				
	Live Load	—	—	6	—	7				
	Impact	—	—	1	—	1				
	Total	—	—	20	—	31				
	Section Modulus	—	—	101	—	190				

Table of Moments and Reactions
Spans S22, S23 & D36S

		Moment					Reaction			
		4 Span S22	5 Span S23	6 Span D36S	Pier S22	Pier S23	Pier S21	Pier S22	Pier S23	Pier D36S
Dead Load	Primary	1107	1174	1077	2773	2743	78	291	289	78
	Secondary	20	21	19	39	39	1	4	4	1
Live Load	Primary	716	735	710	825	814	46	76	76	46
	Secondary	13	13	13	12	12	1	1	1	1
Impact		172	158	170	187	193	11	17	17	11
Centrifugal force		75	76	74	86	85	5	7	7	5
Total		2103	2177	2063	3922	3886	142	396	394	142
Section Modulus		1567	1567	1567	2774	2774	—	—	—	—
Torque Loading	Dead Load	9	10	9	19	18				
	Live Load	6	6	6	6	6				
	Impact	1	1	1	1	1				
	Total	16.0	17	16	26	25				
	Section Modulus	68	68	68	128	128				

Table of Moments and Reactions
Spans T6 thru T1

		Moment						Reaction				
		4 Span T6 & Span T1	5 Span T5 & Span T2	5 Span T4 & Span T3	Piers T5 & T1	Piers T4 & T2	Pier T3	—	Piers T6 & A35	Piers T5 & T1	Piers T4 & T2	Pier T3	—
Dead Load	Primary	1134	1095	1150	2656	2450	2550	—	79	278	285	287	—
Load	Secondary	32	31	33	59	56	58	—	2	2	2	2	—
Live Load	Primary	708	715	740	827	905	905	—	46	77	79	80	—
Load	Secondary	20	20	21	19	21	21	—	1	5	5	5	—
Impact		170	156	160	187	195	195	—	11	18	17	17	—
Centrifugal force		118	117	122	137	149	149	—	8	13	13	13	—
Total		2182	2134	2226	3885	3776	3878	—	147	393	401	404	—
Section Modulus		1776	1776	1776	2901	2901	2901	—	—	—	—	—	—
Torque Loading	Dead Load	12	11	12	23	21	22	—					
	Live Load	7	8	8	7	8	8	—					
	Impact	2	2	2	2	2	2	—					
	Total	21	21	22	32	31	32	—					
	Section Modulus	61	61	61	108	108	108	—					

DESIGNED BY A.T.
DRAWN BY E.M.
CHECKED BY S.A.B.
APPROVED BY K.A.

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

STRESS TABLES

POPLAR STREET BRIDGE APPROACHES

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

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

SHEET 117 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I.-70	82-3HVB-3	ST. CLAIR	262	185
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

ROADWAY A

PIER NO.	GIRDER A1	GIRDER A2
A29 Span A29	461.83	459.27
A30	458.93	456.37
A31	455.70	453.17
A32	452.07	450.60
A33	448.90	448.72
A34	446.79	446.79
A35 Span A34	445.35	444.49
A35 Span A35	443.26	444.49
A36	441.48	442.15
A37	437.87	438.40
A38 Span A37	437.36	437.77
A38 Span A38	437.36	437.77
A39	433.94	434.24
A40	432.58	432.74
A41 Span A40	431.09	431.13
A41 Span A41	431.09	431.13
A42	428.41	428.41
A43 Span A42	426.28	426.28
A43 Span A43	426.28	426.28
A44 Span A43	425.05	424.06
A44 Span A44	425.05	424.06
A45 Span A44	423.04	421.93
A45 Span A45	423.04	421.93
A46 (Abutment)		

GIRDER A1	GIRDER A2	GIRDER A3	GIRDER A4	GIRDER A5
424.76	423.57	424.48	424.16	423.86

ROADWAY D

PIER NO.	GIRDER D1	GIRDER D2
D33 Span D33	449.80	447.24
D34	448.78	446.22
D35	447.50	445.39
D36 Span D35	445.11	444.05
D36 Span D36	445.44	444.05
D37	440.99	441.47
D38	437.02	437.46
D39	434.05	434.41
D40 Span D39	432.66	432.96
D40 Span D40	432.66	432.96
D41	429.69	429.93
D42	427.56	427.73
D43 Span D42	425.42	425.54
D43 Span D43	425.42	425.54
D44 Span D43	424.20	423.02
D44 Span D44	424.20	423.02
D45 Span D44	421.62	420.48
D45 Span D45	421.62	420.48
D46 (Abutment)		

GIRDER D1	GIRDER D2	GIRDER D3	GIRDER D4	GIRDER D5
423.23	422.05	422.93	422.63	422.33

RAMP S

PIER NO.	GIRDER S1	GIRDER S2
S18 Span S19	481.49	480.68
S19	475.63	475.73
S20	467.11	468.40
S21 Span S21	460.79	462.71
S21 Span S22	460.79	462.71
S22	455.33	457.25
S23	449.82	451.00
D36 Span D36S	445.11	445.44

RAMP T

PIER NO.	GIRDER T1	GIRDER T2
A35 Span T1	444.10	443.26
T1	445.20	443.54
T2	445.23	443.31
T3	444.08	442.16
T4	441.34	439.42
T5	437.84	435.92
T6 (Abutment)	435.55	433.63

Note:
Bearing elevations are to top of concrete Piers or Abutments.

DESIGNED BY A.T.
DRAWN BY E.C.
CHECKED BY A.T.
APPROVED BY K.A.

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

BEARING ELEVATIONS

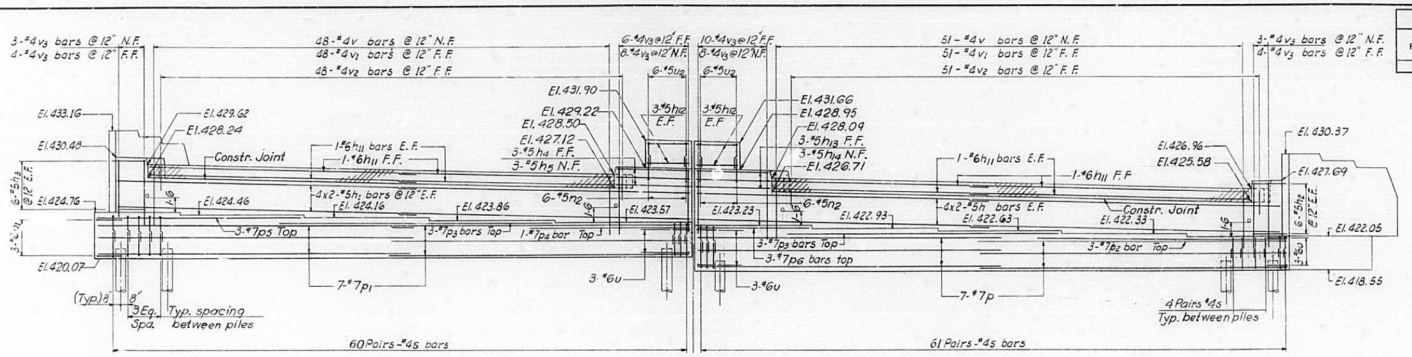
POPLAR STREET BRIDGE APPROACHES

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

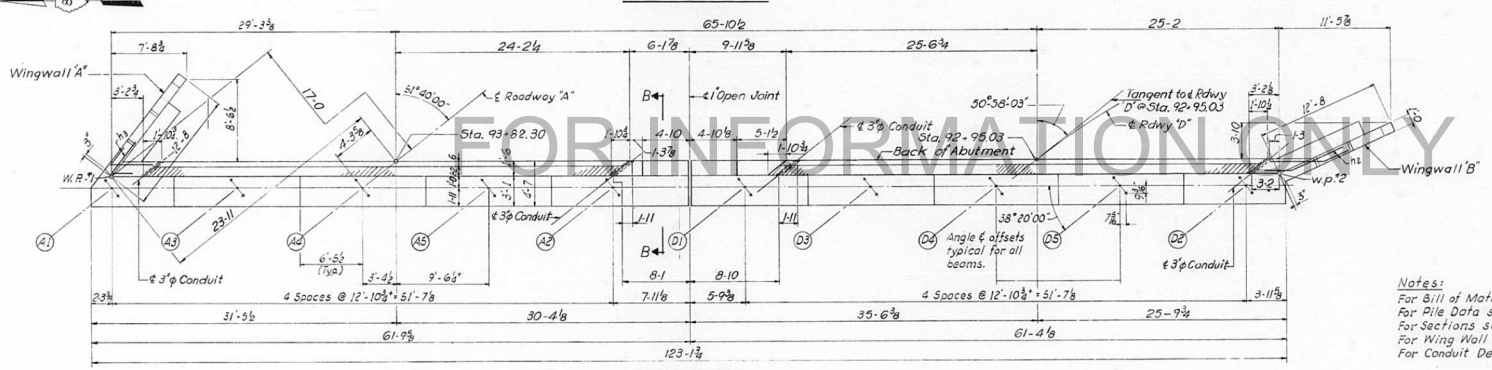
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 118 OF 163

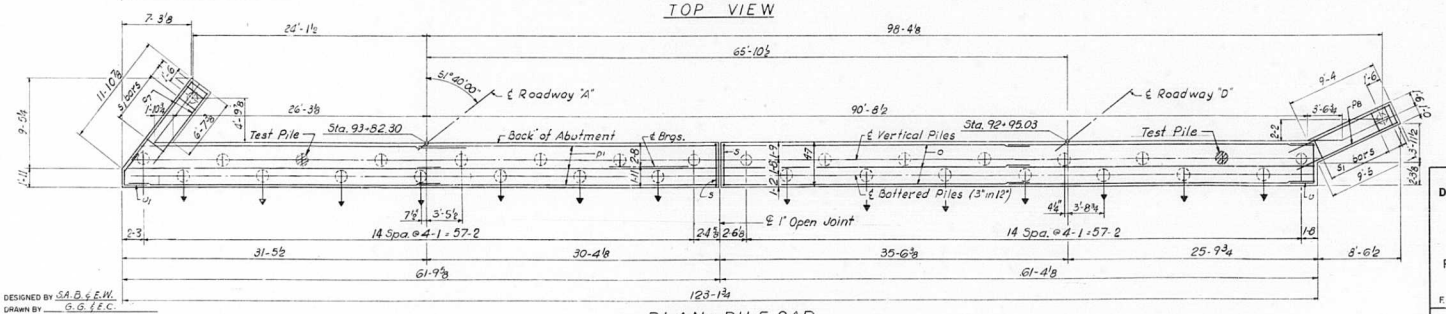
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	186
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



ELEVATION



TOP VIEW



PLAN - PILE CAP

Notes:
For Bill of Material see Sheet №120
For Pile Data see Sheet №120
For Sections see Sheet №120
For Wing Wall Elevations see Sheet №120
For Conduit Detail see Sh. No. 121

DESIGNED BY S.A.B. & E.W.
DRAWN BY G.G. & E.C.
CHECKED BY E.W. & A.J.C.
APPROVED BY K.A.

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

ABUTMENT A46 & D46

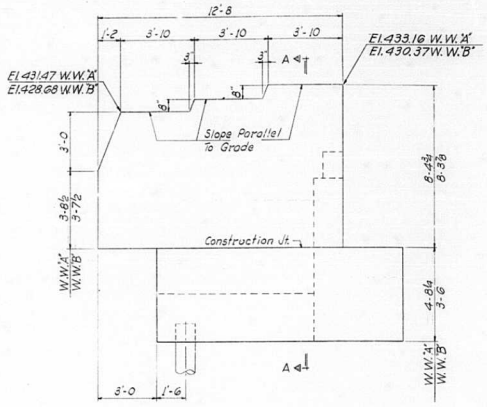
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A" & "D"

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

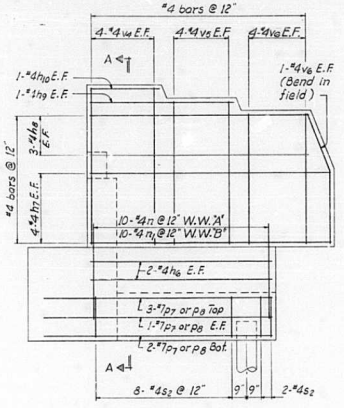
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET
119 OF 163

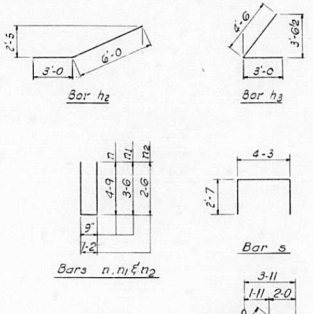
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	187
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



WING WALL ELEVATION
DIMENSIONS



WING WALL ELEVATION
REINFORCEMENT

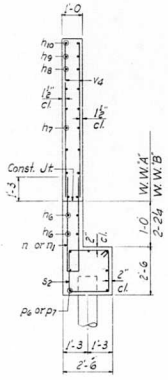


BILL OF MATERIAL

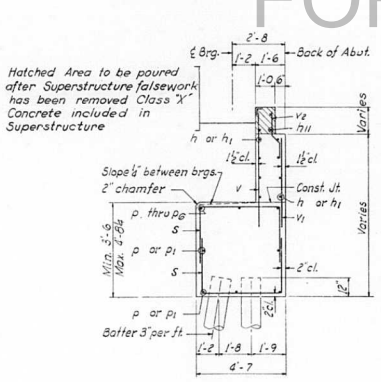
•BAR	NO.	SIZE	LENGTH	SHAPE
120 h	16	#5	31-0	
120 h1	16	5	30-6	
120 h2	12	5	9-0	
120 h3	12	5	7-3	
120 h4	3	5	5-9	
120 h5	3	5	7-8	
120 h6	8	4	10-0	
120 h7	16	4	12-1	
120 h8	12	4	11-0	
120 h9	4	4	7-2	
120 h10	4	4	3-4	
120 h11	12	6	25-8	
120 h12	12	5	4-6	
120 h13	3	5	8-7	
120 h14	3	5	6-9	
120 p	14	7	31-9	
120 p1	14	7	32-0	
120 p2	1	7	25-4	
120 p3	6	7	27-10	
120 p4	1	7	15-9	
120 p5	3	7	21-8	
120 p6	3	7	11-11	
120 p7	7	7	8-6	
120 p8	7	7	11-3	
120 s	242	4	9-5	
120 s1	20	4	9-6	
120 n	10	4	10-3	
120 n1	10	4	7-9	
120 n2	12	5	6-2	
120 u	9	6	8-3	
120 u1	3	6	8-11	
120 u2	12	12	5-2	
120 v	99	4	6-0	
120 v1	99	4	4-8	
120 v2	99	4	3-1	
120 v3	46	4	6-9	
120 v4	16	4	8-1	
120 v5	16	4	7-3	
120 v6	20	#4	6-4	

• See Note "X" Sh. № 27

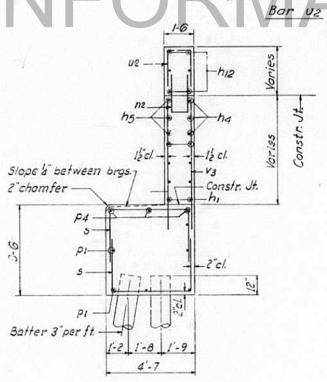
ITEM	UNIT	TOTAL
Class "X" Concrete	Cu. Yds.	123.6
Reinforcement Bars	Lbs.	8180
Concrete Piles	Lin. Ft.	1320
Test Piles (Concrete)	ea.	2



SECTION A-A



SECTION THRU ABUT.



SECTION B-B

PILE DATA

Type ..... Concrete
Capacity ..... 35 Tons
Est. Length 44-0
No. Required ..... 30 *
Test Pile 2
*Does not include test pile

Notes:
Work this sheet with sheet № 119

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

SECTIONS AND DETAILS

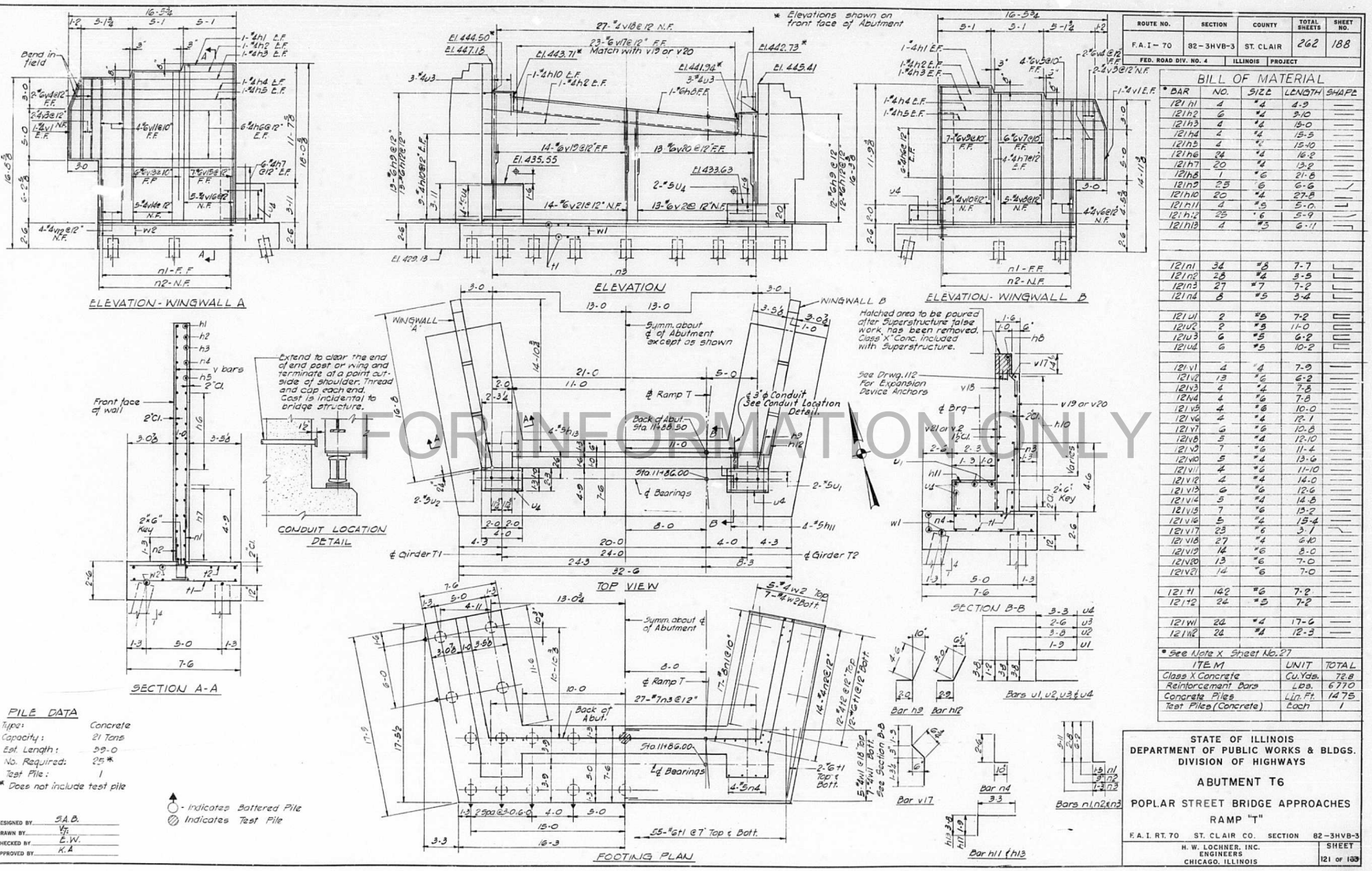
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A" & "D"

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

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

SHEET 120 OF 163

DESIGNED BY S.A.B. & E.W.
DRAWN BY G.G. & E.C.
CHECKED BY E.W. & A.J.C.
APPROVED BY K.A.



* Elevations shown on front face of Abutment

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I – 70	82 – 3HVB-3	ST. CLAIR	262	188
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

* BAR	NO.	SIZE	LENGTH	SHAPE
121 h1	4	#4	4-9	
121 h2	6	#4	5-10	
121 h3	4	#4	15-0	
121 h4	4	#4	15-5	
121 h5	4	#4	15-10	
121 h6	24	#4	16-2	
121 h7	20	#4	13-2	
121 h8	1	#6	21-6	
121 h9	23	6	6-6	
121 h10	20	#4	27-8	
121 h11	4	#6	5-0	
121 h12	25	#6	5-9	
121 h13	4	#5	6-11	
121 n1	36	#8	7-7	
121 n2	28	#4	3-5	
121 n3	27	#7	7-2	
121 n4	8	#5	3-4	
121 u1	2	#8	7-2	
121 u2	2	#8	11-0	
121 u3	6	#8	6-8	
121 u4	6	#8	10-2	
121 v1	4	#4	7-9	
121 v2	13	#6	6-2	
121 v3	4	#4	7-8	
12N4	4	#6	7-8	
121 v5	4	#6	10-0	
121 v6	4	#4	12-1	
121 v7	6	#6	10-8	
12N8	5	#4	12-10	
121 v9	7	#6	11-4	
121 v10	5	#4	13-6	
121 v11	4	#6	11-10	
121 v12	4	#4	14-0	
121 v13	6	#6	12-6	
121 v14	5	#4	14-8	
121 v15	7	#6	13-2	
121 v16	5	#4	15-4	
121 v17	23	#6	3-1	
121 v18	27	#4	6-10	
121 v19	16	#6	8-0	
121 v20	13	#6	7-0	
121 v21	14	#6	7-0	
121 t1	142	#6	7-9	
121 t2	24	#5	7-2	
121 w1	24	#4	17-6	
121 w2	24	#4	12-3	

* See Note X Sheet No. 27

ITEM	UNIT	TOTAL
Class X Concrete	Cu. Yds.	72.8
Reinforcement Bars	Lbs.	6770
Concrete Piles	Lin. Ft.	1475
Test Piles (Concrete)	Each	1

PILE DATA

Type:	Concrete
Capacity:	21 Tons
Est. Length:	39-0
No. Required:	25 *
Test Pile:	1

* Does not include test pile

DESIGNED BY S.A.B.
DRAWN BY T.T.
CHECKED BY E.W.
APPROVED BY K.A.

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

ABUTMENT T6

POPLAR STREET BRIDGE APPROACHES

RAMP "T"

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

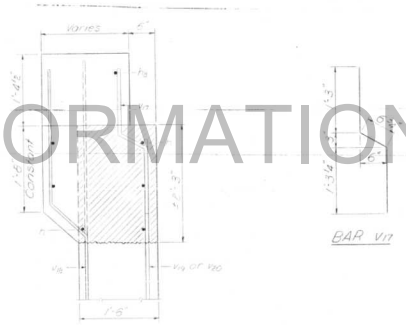
H. W. LOCHNER, INC. ENGINEERS CHICAGO, ILLINOIS

SHEET 121 OF 189

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVB-3	St Clair	162	159A
FED. ROAD DIST. NO. 9	ILLINOIS	FED. AID PROJECT		

SHEET NO. 121A
163 SHEETS



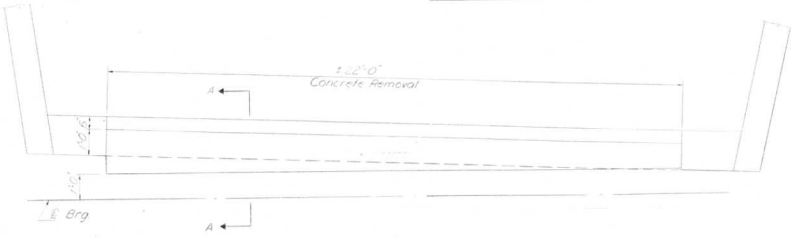
SECTION A-A

BAR V17

NOTES:
1) Hatched area to be removed.
2) Existing reinforcement bars designated V16, V18 and bar shall be cleaned and straightened or bent as shown in Section A-A and used in new concrete.
3) Existing anchor bolts shall be cleaned and re-set in the correct locations in the new portion of the abutment.
4) The north west curb portion of the superstructure shall be extended 3" to provide the proper clearance for the curb expansion device.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
n	6	#4	22'-0"	
V17	23	#6	3'-7"	
Item			Unit	Total
Reinforcement Bars			Lbs	190
Class X Concrete			Cu Yds	3.7
Concrete Removal			Cu Yds	2.8



PLAN VIEW

ABUTMENT T-6 ALTERATIONS
RAMP "T"
F.A.I. ROUTE 70
SECTION: 82-3HVB-3
ST. CLAIR COUNTY

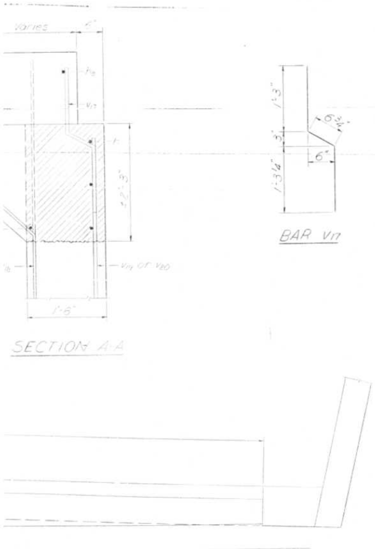
DESIGNED	
CHECKED	
DRAWN	
CHECKED	

19
EXAMINED
ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
PASSED
ENGINEER OF DESIGN
APPROVED
CHIEF HIGHWAY ENGINEER

& BUILDINGS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S. B. I. / F. A. I 70	82-3HVB-3	St Clair	262	188A
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 121A
163 SHEETS



SECTION A-A

BAR V_{17}

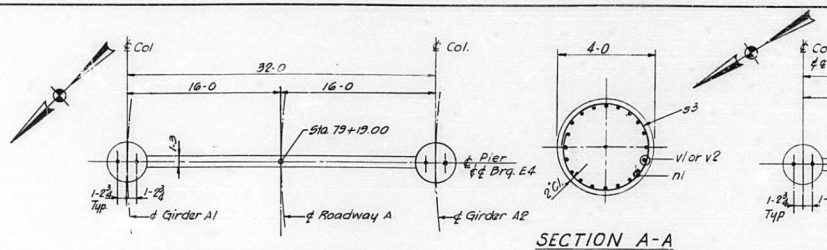
Notes:
1) Hatched area to be removed.
2) Existing reinforcement bars designated V_{18}, V_{19} and V_{20} shall be cleaned and straightened or bent as shown in Section A-A and used in new concrete.
3) Existing anchor bolts shall be cleaned and re-set in the correct locations in the new portion of the abutment.
4) The north west curb portion of the superstructure shall be extended ±8" to provide the proper clearance for the curb expansion device.

BILL OF MATERIAL

Bar	No	Size	Length	Shape
h	6	#4	22'-0"	
V_{17}	23	#6	3'-1"	

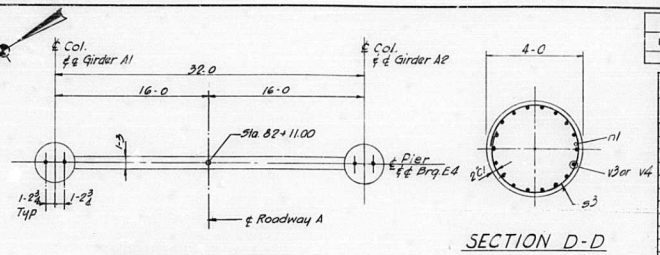
Item	Unit	Total
Reinforcement Bars	Lbs.	190
Class X Concrete	Cu. Yds.	3.7
Concrete Removal	Cu. Yds.	2.8

ABUTMENT T-6 ALTERATIONS
RAMP "T"
F.A.I. ROUTE 70
SECTION 82-3HVB-3
ST. CLAIR COUNTY



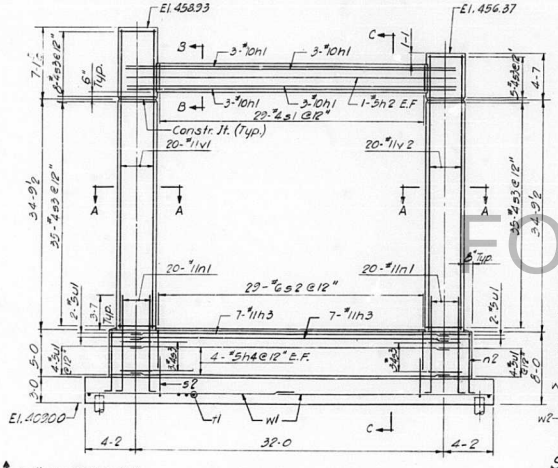
TOP PLAN - PIER A30

SECTION A-A



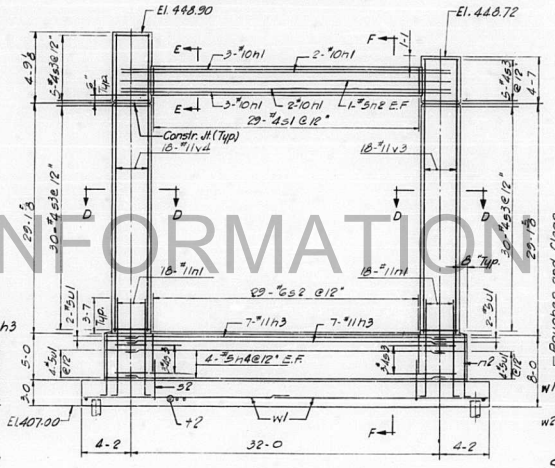
TOP PLAN - PIER A33

SECTION D-D

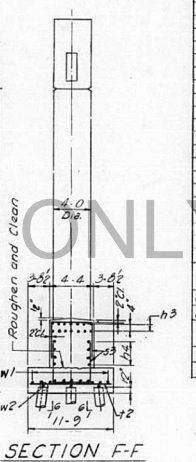


ELEVATION - PIER A30

SECTION C-C

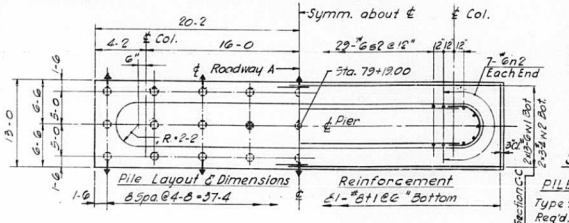


ELEVATION - PIER A33

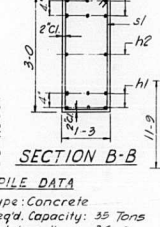


SECTION F-F

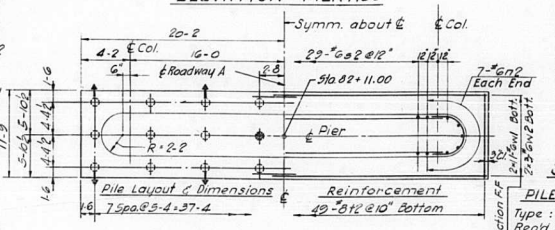
Ⓟ Indicates Battered Pile
◎ Indicates Test Pile



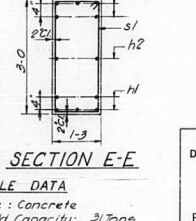
FOOTING PLAN - PIER A30



SECTION B-B



FOOTING PLAN - PIER A33



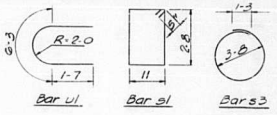
SECTION E-E

See Section C-C

PILE DATA
Type: Concrete
Req'd. Capacity: 35 Tons
Est. Length: 36-0
No. Req'd: 26*
Test Pile 1
* Does not include Test Pile

See Section F-F

PILE DATA
Type: Concrete
Req'd. Capacity: 31 Tons
Est. Length: 48-0
No. Req'd.: 23*
Test Pile: 1
* Does not include Test Pile.



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I—70	82—3HVB—3	ST. CLAIR	262	189
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

•Mark	No. Req'd. Pier A30	No. Req'd. Pier A33	Size	Length	Shape
122 h1	12	10	#10	32-4	—
122 h2	2	2	#3	30-6	—
122 h3	14	14	#11	33-0	—
122 h4	8	8	#5	33-0	—
122 n1	40	36	#11	12-9	⌊
122 n2	14	12	#6	7-9	⌊
122 s1	29	29	#4	8-0	□
122 s2	58	58	#6	12-8	□
122 s3	89	76	#4	12-9	○
122 t1	61	—	#8	12-8	—
122 t2	—	49	#8	11-5	—
122 u1	12	12	#3	3-3	⊂
122 v1	20	—	#11	21-8	—
122 v2	20	—	#11	39-1	—
122 v3	—	18	#11	33-6	—
122 v4	—	18	#11	33-8	—
122 w1	26	22	#6	21-0	—
122 n2	6	6	#4	20-6	—
•See Note "X" Sh. No. 27					

Item	Unit	Total Pier A30	Total Pier A33
Class "X" Concrete	C.Y.	128.4	116.5
Reinforcement Bars	Lbs.	21,800	17,590
Concrete Piles	L.F.	936	1104
Test Piles (concrete)	Ea.	1	1

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

PIERS A30 AND A33

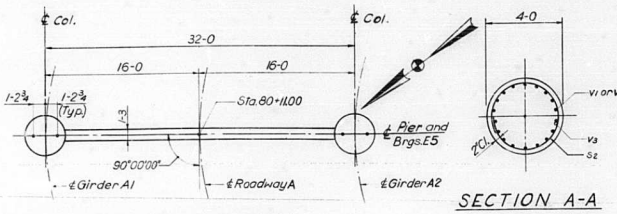
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

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

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

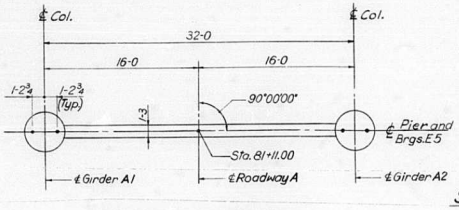
SHEET 122 OF 163

DESIGNED BY A.T.
DRAWN BY T.
CHECKED BY E.L.
APPROVED BY K.A.

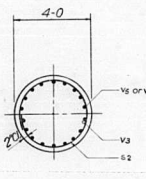


TOP PLAN - PIER A31

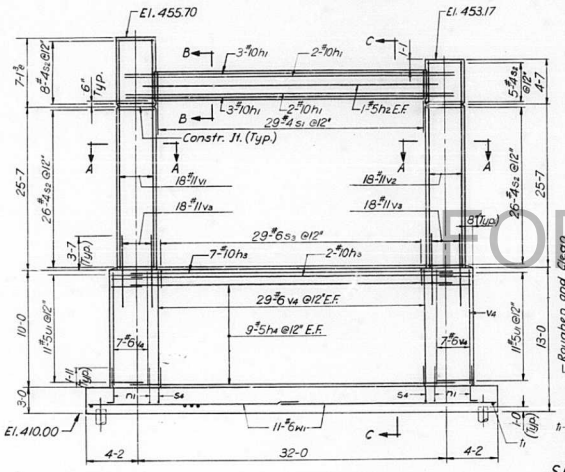
SECTION A-A



TOP PLAN - PIER A32

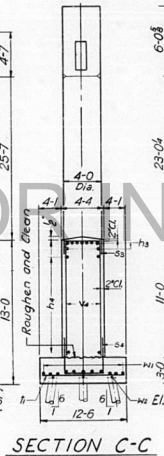


SECTION D-D

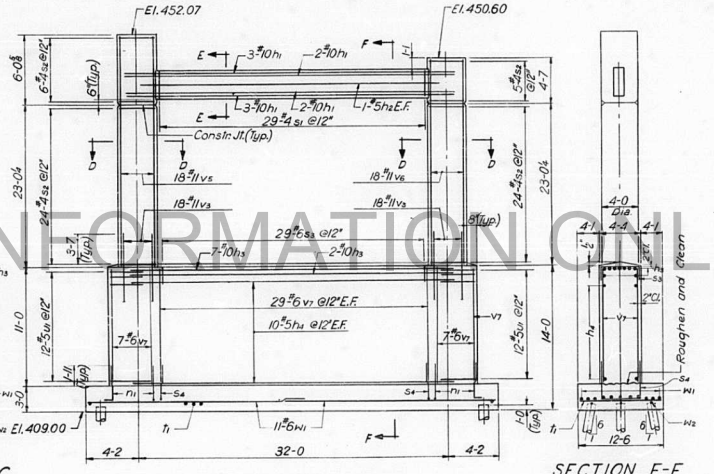


▲ Indicates Bolstered Pile
◉ Indicates Test Pile

ELEVATION - PIER A31

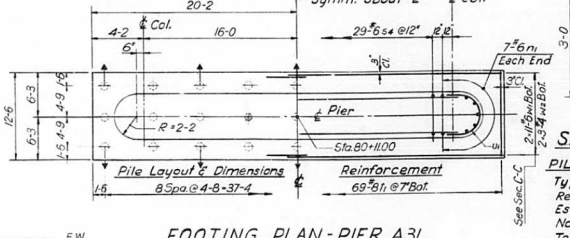


SECTION C-C

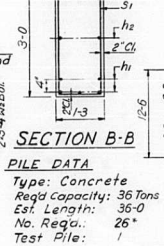


ELEVATION - PIER A32

SECTION F-F

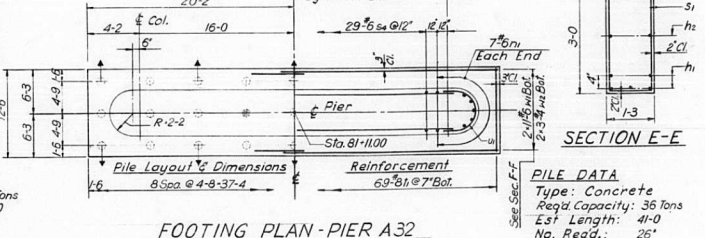


FOOTING PLAN - PIER A31



SECTION B-B

PILE DATA
Type: Concrete
Reqd Capacity: 36 Tons
Est. Length: 36-0
No. Req'd.: 26*
Test Pile: 1
*Does not include Test Pile.



FOOTING PLAN - PIER A32

SECTION E-E

PILE DATA
Type: Concrete
Reqd Capacity: 36 Tons
Est. Length: 41-0
No. Req'd.: 26*
Test Pile: 1
*Does not include Test Pile.

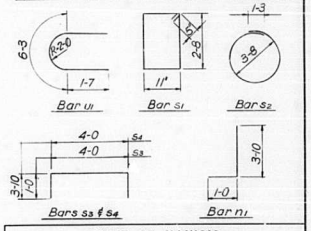
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	190
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

*Mark	No. Reqd. Pier A31	No. Reqd. Pier A32	Size	Length	Shape
123 h1	10	10	#10	34-4	
123 h2	2	2	#5	30-0	
123 h3	9	9	#10	33-0	
123 h4	18	20	#5	33-0	
123 n1	14	14	#6	4-10	
123 s1	29	29	#4	8-0	
123 s2	65	59	#4	12-3	
123 s3	29	29	#6	6-0	
123 s4	29	29	#6	11-8	
123 t1	69	69	#8	12-2	
123 u1	22	24	#5	9-5	
123 v1	18		#11	32-6	
123 v2	18		#11	30-0	
123 v3	36	36	#11	7-2	
123 v4	72		#6	9-10	
123 v5		18	#11	28-11	
123 v6		18	#11	27-5	
123 v7		72	#6	10-10	
123 w1	22	22	#6	21-0	
123 w2	6	6	#4	20-6	

*See Note "X" Sh. No. 27

Item	Unit	Total Pier A31	Total Pier A32
Class "X" Concrete	C.Y.	146.7	149.9
Reinforcement Bars	Lbs.	16,660	16,220
Concrete Piles	L.F.	1	1
Test Piles (Concrete)	Ea.	936	1066



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

PIERS A31 AND A32

POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

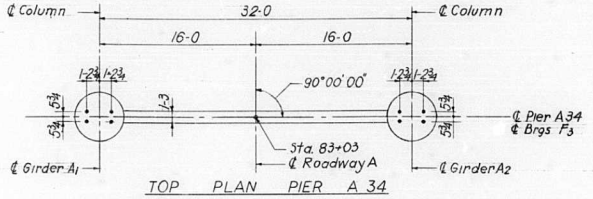
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-3

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

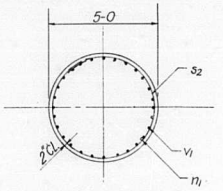
SHEET 123 of 163

DESIGNED BY E.W.
DRAWN BY H.B.
CHECKED BY S.K.
APPROVED BY K.A.

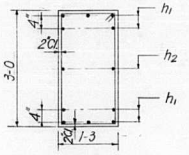
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82-3HVB-3	ST. CLAIR	262	191
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



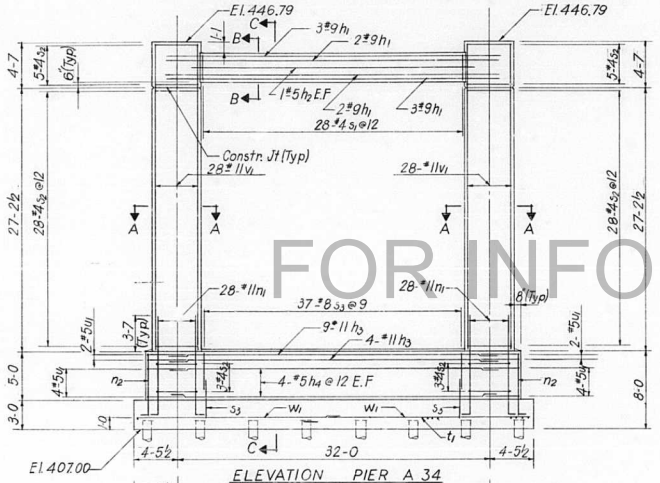
TOP PLAN PIER A 34



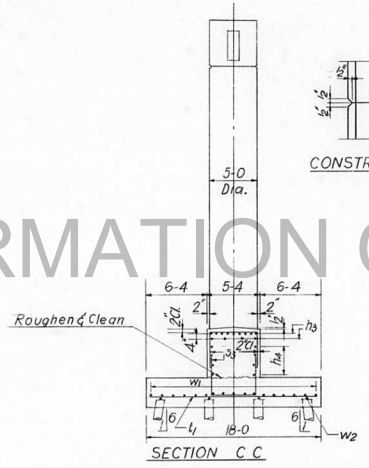
SECTION A--A



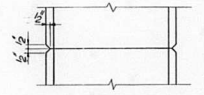
SECTION B-B



ELEVATION PIER A 34



SECTION C C

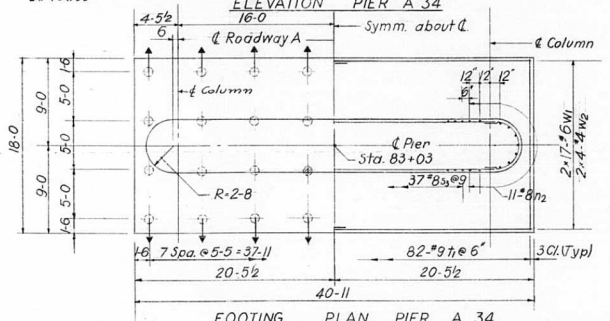


CONSTR. JOINT DETAIL

BILL OF MATERIAL				
*Mark	No. Reqd	Size	Length	Shape
124 h1	10	#9	34-4	
124 h2	2	#5	30-6	
124 h3	13	#11	33-0	
124 h4	8	#5	33-0	
124 n1	56	#11	12-8	
124 n2	22	#8	8-2	
124 s1	28	#4	8-0	
124 s2	72	#4	15-11	
124 s3	74	#8	14-4	
124 t1	82	#9	17-8	
124 w1	34	#6	21-3	
124 w2	8	#4	21-0	
124 u1	12	#5	11-0	
124 v1	56	#11	31-8	

*See Note 'X' Sheet No. 27

Item	Unit	Total.
Class 'X' Concrete	C.Y.	167.6
Reinforcement Bars	Lbs.	27,460
Concrete Piles	L.F	1240
Test Piles	Ea.	1



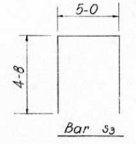
FOOTING PLAN PIER A 34

Pile layout & Dimensions

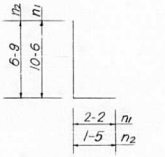
Reinforcement

⊘ Indicates test pile

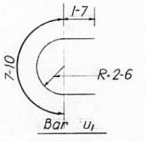
Indicates battered pile



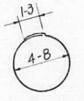
Bar s3



Bars n1 & n2



Bar u1

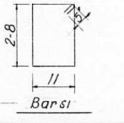


Bar s2

PILE DATA

Type:	Concrete
Required Capacity:	35 Tons
Est Length:	40-0
No Required:	31*
Test Pile:	1

* Does not include test pile



Bars s1

DESIGNED BY	E.W.
DRAWN BY	E.C.
CHECKED BY	S.K.
APPROVED BY	K.A.

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

PIER A34

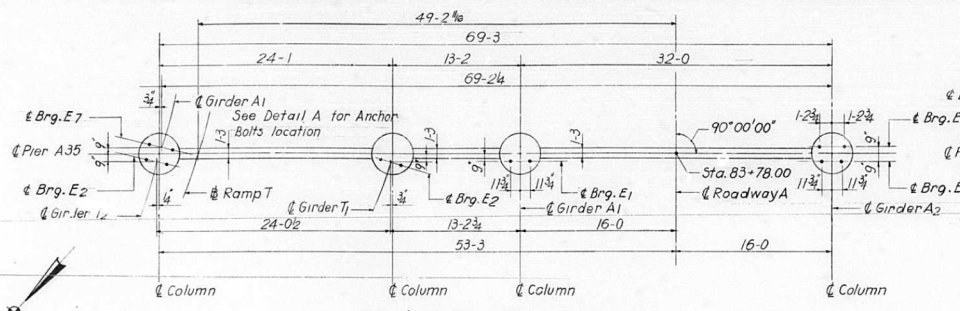
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

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

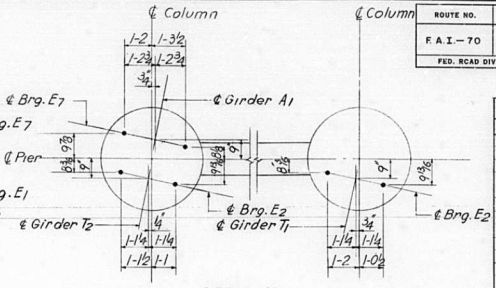
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 124 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	192
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



TOP PLAN PIER A 35

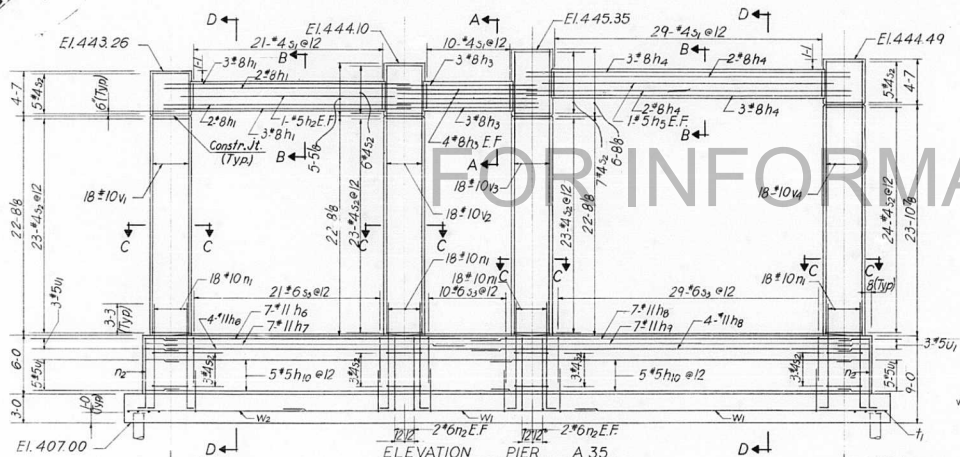


DETAIL "A"

BILL OF MATERIAL				
* Mark	No. Reqd	Size	Length	Shape
125 h1	10	#8	26-1	
125 h2	2	#5	22-7	
125 h3	14	#8	15-2	
125 h4	10	#8	34-0	
125 h5	2	#5	30-6	
125 h6	11	#11	35-6	
125 h7	7	#11	30-3	
125 h8	11	#11	38-3	
125 h9	7	#11	43-6	
125 h10	20	#5	36-2	
125 n1	72	#10	13-1	
125 n2	26	#6	8-9	
125 s1	60	#4	8-0	
125 s2	128	#4	12-9	
125 s3	120	#6	13-8	
125 t1	79	#7	10-8	
125 u1	16	#5	9-5	
125 v1	18	#10	27-1	
125 v2	18	#10	27-11	
125 v3	18	#10	29-2	
125 v4	18	#10	28-4	
125 w1	18	#10	32-5	
125 w2	9	#10	20-3	
125 w3	9	#4	27-0	

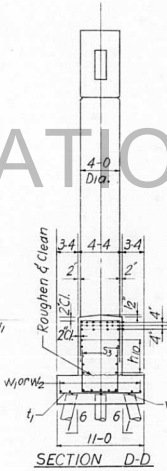
* See note "X" Sh No. 27

Item	Unit	Total
Class "X" Concrete	C.Y.	226.5
Reinforcement bars	Lbs.	32,410
Concrete Piles	L.F.	1540
Test Piles	Ea.	1

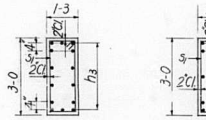


ELEVATION PIER A 35

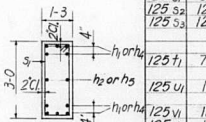
FOOTING PLAN PIER A 35



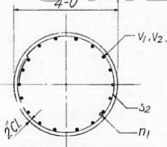
SECTION D-D



SECTION A-A



SECTION B-B



SECTION C-C

PILE DATA

Type: Concrete
Reqd. capacity: 27 Tons
Est. Length: 35-0
No. reqd. 44 *
Test Pile 1

* Does not include test pile

Indicates test pile

Indicates battered pile

Pile layout & Dimensions

Reinforcement

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

PIER A35

POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

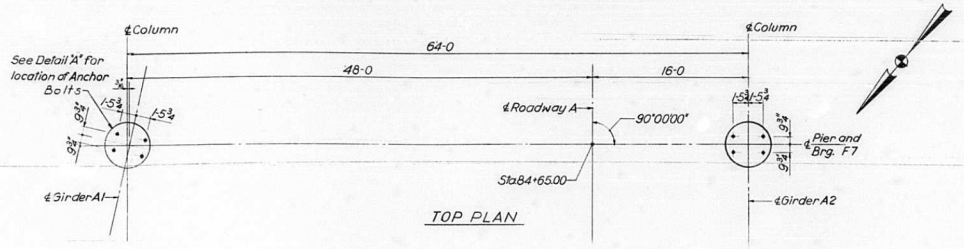
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-3

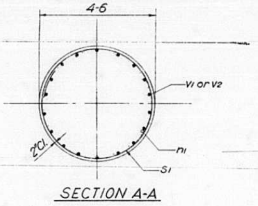
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

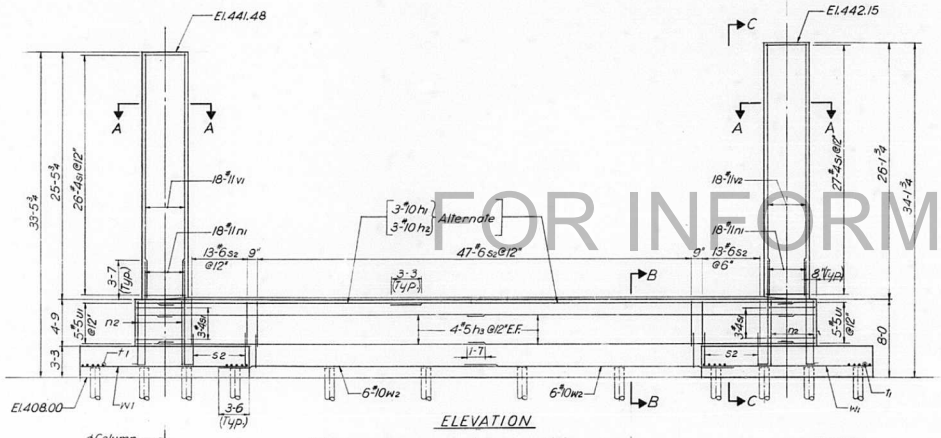
SHEET 125 or 163

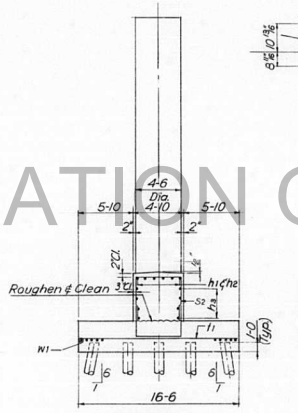
DESIGNED BY E.W.
DRAWN BY E.C.
CHECKED BY S.K.
APPROVED BY K.A.

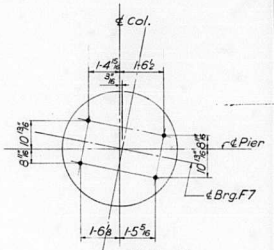
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	193
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

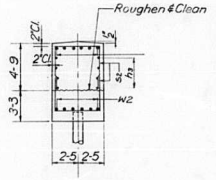








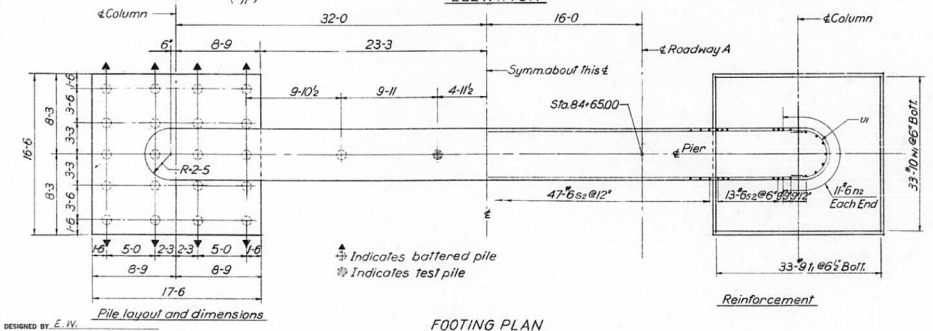


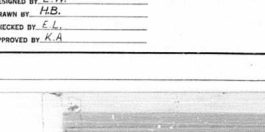


BILL OF MATERIAL				
•Mark	No. Reqd.	Size	Length	Shape
126 h1	6	#10	36-0	
126 h2	6	#10	32-3	
126 h3	16	#5	33-4	
126 n1	36	#11	12-8	
126 n2	22	#6	7-9	
126 S1	59	#4	14-4	
126 S2	146	#6	13-2	
126 t1	66	#9	16-0	
126 U1	10	#5	10-2	
126 V1	18	#11	25-3	
126 V2	18	#11	25-11	
126 W1	66	#10	17-0	
126 W2	12	#10	28-4	

•See Note 'X' Sheet No. 27

Item	Unit	Total
Class 'X' Concrete	C.Y.	184.1
Reinforcement Bars	Lbs.	23,330
Concrete Piles	L.F.	2064
Test Pile	Ea.	1

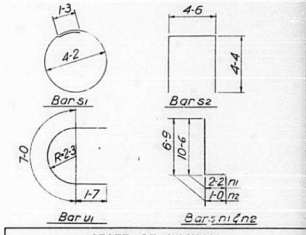




PILE DATA

Type: Concrete
Required Capacity: 33 Tons
Est. Length: 48-0
No. Required: 43*
Test Pile: 1

*Does not include test pile



DESIGNED BY E.W.
DRAWN BY H.B.
CHECKED BY E.L.
APPROVED BY K.A

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

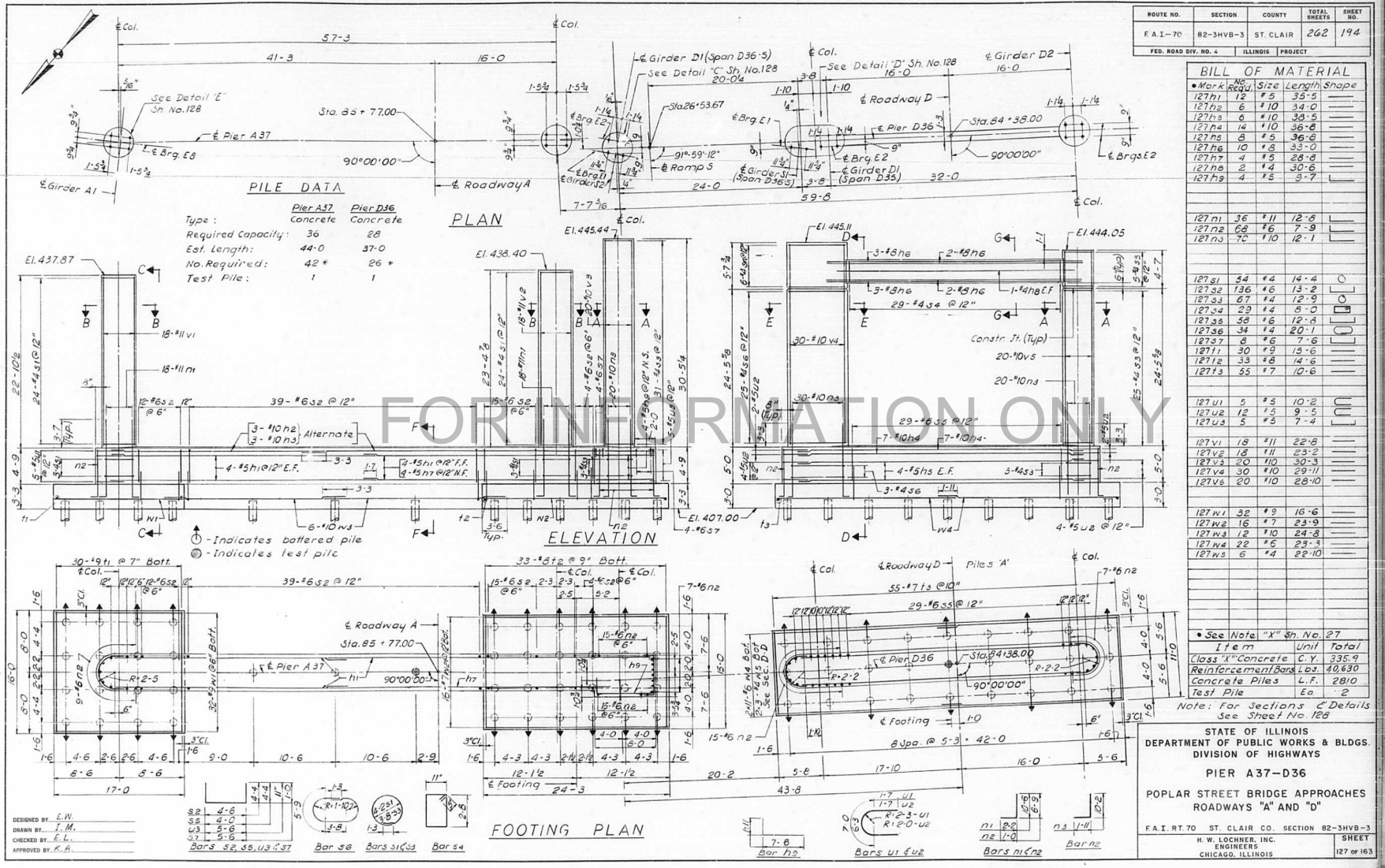
PIER A36

POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

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

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

SHEET 126 of 163



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.–70	82-3HVB-3	ST. CLAIR	262	194
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

BILL OF MATERIAL

• Mark	No. Req'd.	Size	Length	Shape
127 h1	12	# 5	35-5	
127 h2	6	# 10	34-0	
127 h3	6	# 10	38-5	
127 h4	14	# 10	36-6	
127 h5	8	# 5	36-6	
127 h6	10	# 8	33-0	
127 h7	4	# 5	28-8	
127 h8	2	# 4	30-6	
127 h9	4	# 5	9-7	
127 n1	36	# 11	12-6	
127 n2	66	# 6	7-9	
127 n3	70	# 10	12-1	
127 s1	54	# 4	14-4	
127 s2	136	# 6	13-2	
127 s3	67	# 4	12-9	
127 s4	23	# 4	8-0	
127 s5	58	# 6	12-6	
127 s6	34	# 4	20-1	
127 s7	8	# 6	7-6	
127 t1	30	# 9	15-6	
127 t2	33	# 8	14-6	
127 t3	55	# 7	10-6	
127 u1	5	# 5	10-2	
127 u2	12	# 5	9-5	
127 u3	5	# 5	7-4	
127 v1	18	# 11	22-8	
127 v2	18	# 11	23-2	
127 v3	20	# 10	30-3	
127 v4	30	# 10	29-11	
127 v5	20	# 10	28-10	
127 w1	32	# 9	16-6	
127 w2	16	# 7	23-9	
127 w3	12	# 10	24-8	
127 w4	22	# 6	23-4	
127 w5	6	# 4	22-10	

• See Note "X" Sh. No. 27

Item	Unit	Total
Class "X" Concrete	C.Y.	335.9
Reinforcement Bars	Lbs.	40,630
Concrete Piles	L.F.	2810
Test Pile	Ea.	2

Note: For Sections & Details See Sheet No. 128

DESIGNED BY E.W.
DRAWN BY T.M.
CHECKED BY E.L.
APPROVED BY K.A.

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

PIER A37–D36

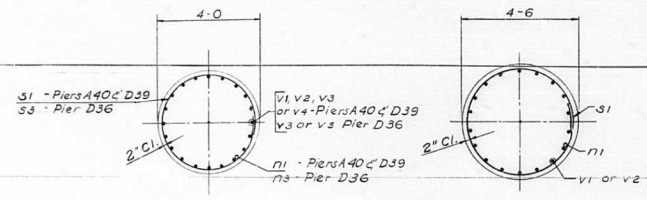
POPLAR STREET BRIDGE APPROACHES
ROADWAYS "A" AND "D"

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

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

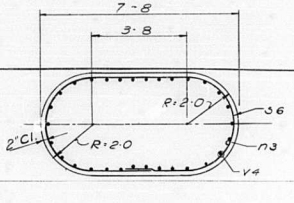
SHEET 127 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.–70	82–3HVB–3	ST. CLAIR	262	195
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

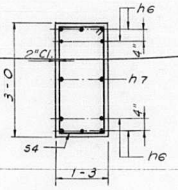


SECTION A-A

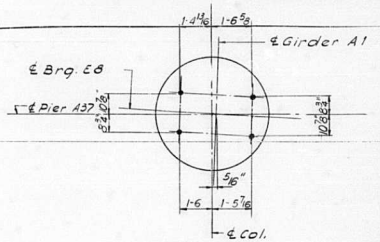
SECTION B B



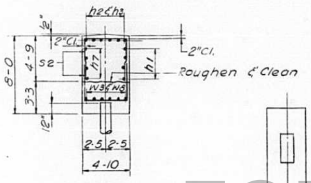
SECTION E-E



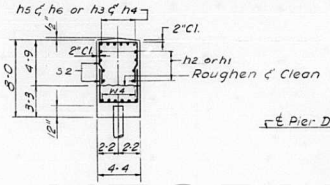
SECTION G-G



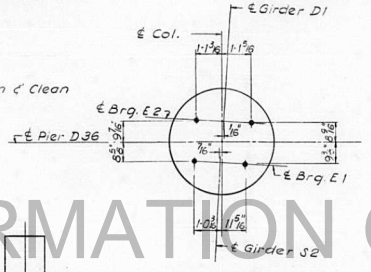
DETAIL "E"



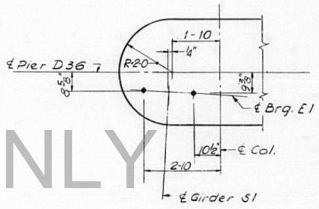
SECTION F-F



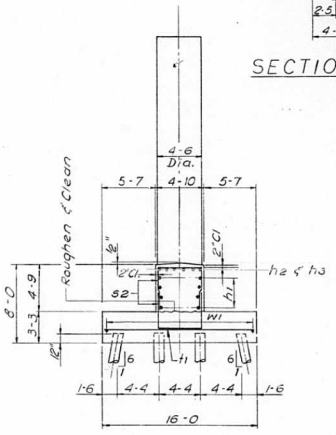
SECTION K-K



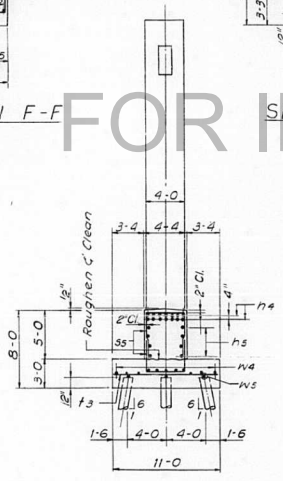
DETAIL "C"



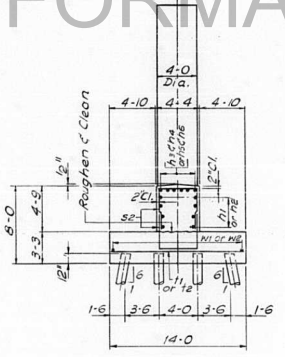
DETAIL "D"



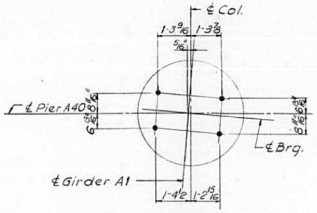
SECTION C-C



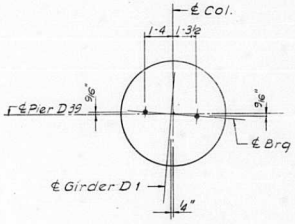
SECTION D-D



SECTION H-H



DETAIL "A"



DETAIL "B"

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

PIER A37-D36 AND A40-D39 DETAILS

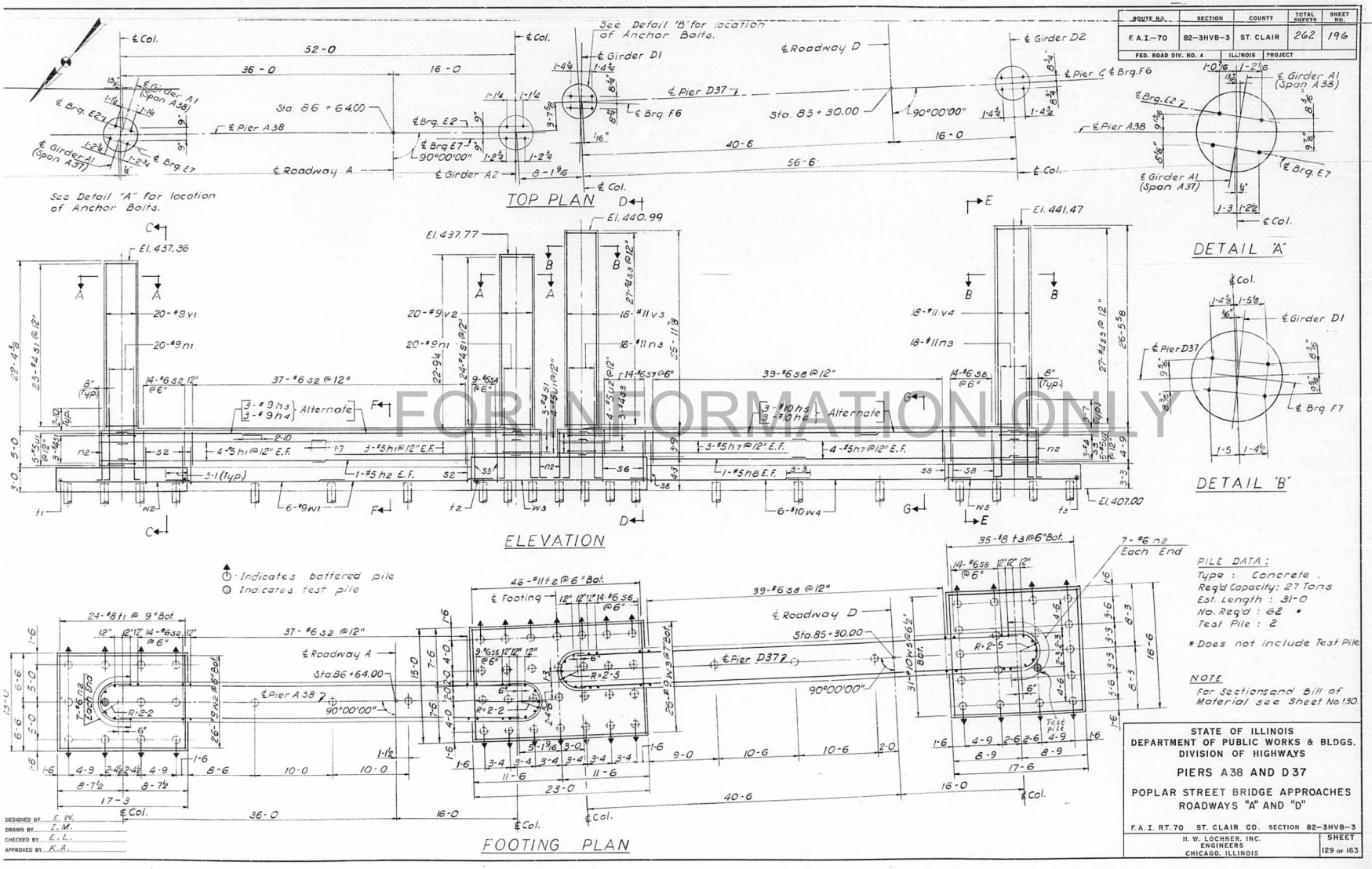
POPLAR STREET BRIDGE APPROACHES
ROADWAYS "A" AND "D"

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

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

SHEET 128 OF 163

DESIGNED BY F.W.
DRAWN BY I.M.
CHECKED BY E.L.
APPROVED BY K.A.



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82-3HVB-3	ST. CLAIR	262	196
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

PILE DATA:
Type : Concrete .
Req'd Capacity: 27 Tons
Est. Length : 31'-0
No. Req'd : 62 *
Test Pile : 2

* Does not include Test Pile

NOTE
For Sections and Bill of Material see Sheet No. 130.

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

PIERS A38 AND D37

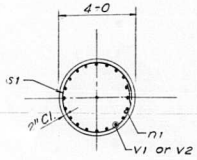
POPLAR STREET BRIDGE APPROACHES
ROADWAYS "A" AND "D"

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

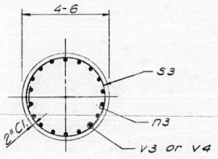
DESIGNED BY E.W.
DRAWN BY I.M.
CHECKED BY E.L.
APPROVED BY K.A.

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

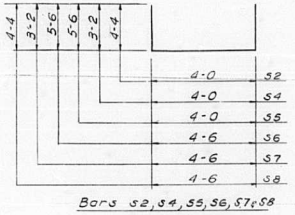
SHEET 129 OF 163



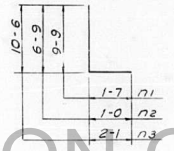
SECTION A-A



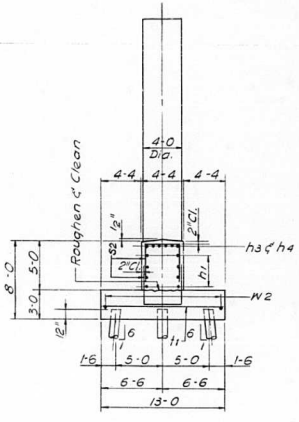
SECTION B-B



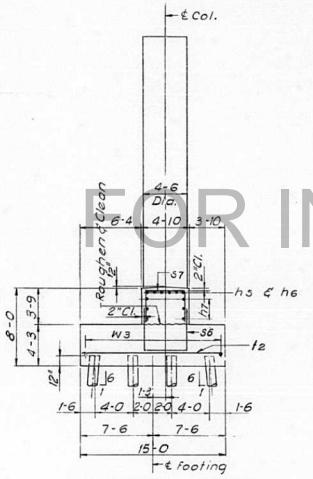
Bars s2, s4, s5, s6, s7 & s8



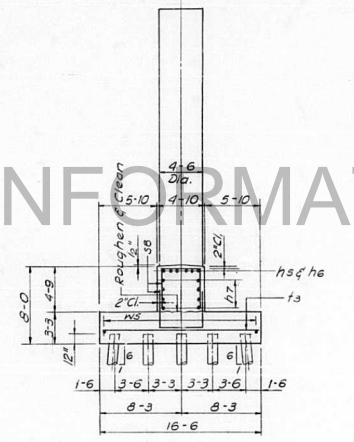
Bars n1, n2 & n3



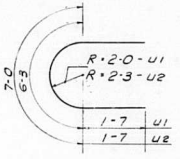
SECTION C-C



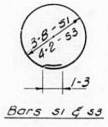
SECTION D-D



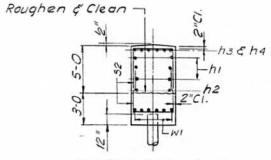
SECTION E-E



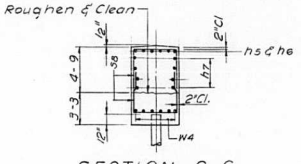
Bars u1 & u2



Bars s1 & s3



SECTION F-F



SECTION G-G

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I-70	82-3HVB-3	ST. CLAIR	262	197
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

• Mark	No. Reqd	Size	Length	Shape
130 h1	14	# 5	27-3	——
130 h2	2	# 5	20-10	——
130 h3	6	# 9	24-10	——
130 h4	6	# 9	31-0	——
130 h5	6	# 10	28-9	——
130 h6	6	# 10	32-0	——
130 h7	14	# 5	29-6	——
130 h8	2	# 5	20-5	——
130 n1	40	# 9	11-4	⌊
130 n2	28	# 6	7-9	⌊
130 n3	36	# 11	12-7	⌊
130 s1	53	# 4	12-9	○
130 s2	102	# 6	12-8	⌊
130 s3	60	# 4	14-4	○
130 s4	9	# 6	10-4	⌊
130 s5	9	# 6	15-0	⌊
130 s6	14	# 6	15-6	⌊
130 s7	14	# 6	10-10	⌊
130 s8	106	# 6	13-2	⌊
130 t1	24	# 8	12-6	——
130 t2	16	# 11	14-6	——
130 t3	35	# 8	16-0	——
130 u1	9	# 5	9-5	⊂
130 u2	9	# 5	10-2	⊂
130 v1	20	# 9	22-2	——
130 v2	20	# 9	22-7	——
130 v3	18	# 11	25-9	——
130 v4	18	# 11	26-3	——
130 w1	12	# 9	21-7	——
130 w2	26	# 9	16-9	——
130 w3	26	# 9	14-8	——
130 w4	12	# 10	22-0	——
130 w5	31	# 10	17-0	——
• See Note "X" Sh. No. 27				

Item	Unit	Total
Class "X" Concrete	C.Y.	298.3
Reinforcement Bars	Lbs.	34,940
Concrete Piles	L.F.	1922
Test Piles	Each	2

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

PIER A38 AND D37 DETAILS

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

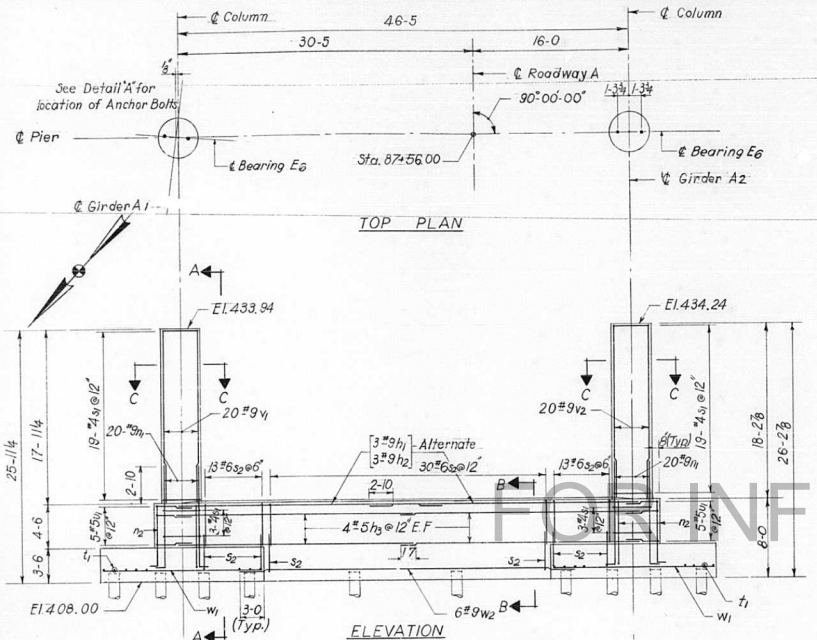
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-3

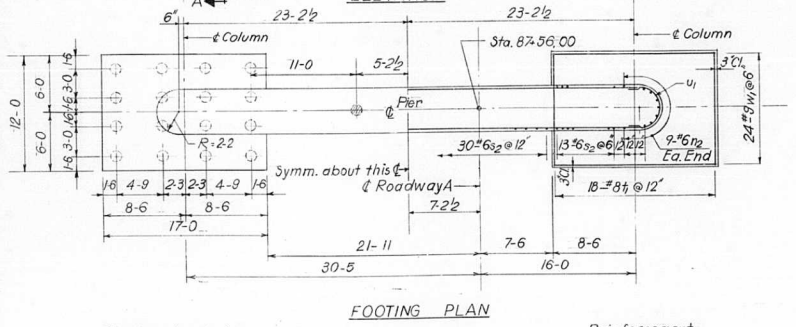
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 130 OF 163

DESIGNED BY E. W.
DRAWN BY I. M.
CHECKED BY E. L.
APPROVED BY K. A.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82-3HVB-3	ST. CLAIR	262	198
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

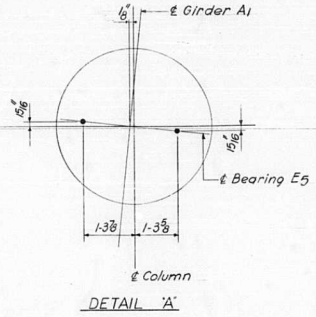


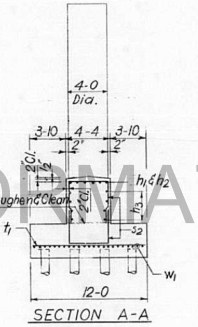


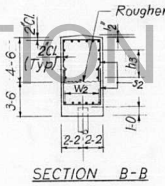
Pile layout and dimensions

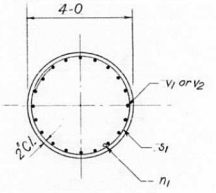
Reinforcement

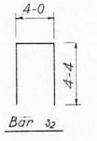
◎ Indicates test pile

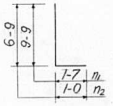


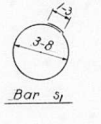


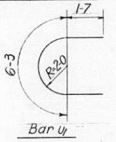












BILL OF MATERIAL

*Mark	No. reqd.	Size	Length	Shape
131 h1	6	#9	27-0	
131 h2	6	#9	23-3	
131 h3	16	#5	24-6	
131 n1	40	#9	11-4	
131 n2	18	#6	7-9	
131 s1	44	#4	12-9	
131 s2	112	#6	12-8	
131 t1	36	#8	11-8	
131 u1	10	#5	9-5	
131 v1	20	#9	17-9	
131 v2	20	#9	18-0	
131 w1	48	#9	16-8	
131 w2	6	#9	35-5	

* See Note 'X' Sheet No. 27

Item	Unit	Total
Class 'X' Concrete	C.Y.	121.9
Reinforcement Bars	Lbs.	12,780
Concrete Piles	L.F.	1353
Test Pile	Ea.	1

PILE DATA

Type :	Concrete
Required Capacity :	29 Tons
Est. Length :	41-0
No. Required.	33*
Test Pile.	1

* Does not include test pile

DESIGNED BY E.W.
DRAWN BY E.C.
CHECKED BY E.L.
APPROVED BY K.A.

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

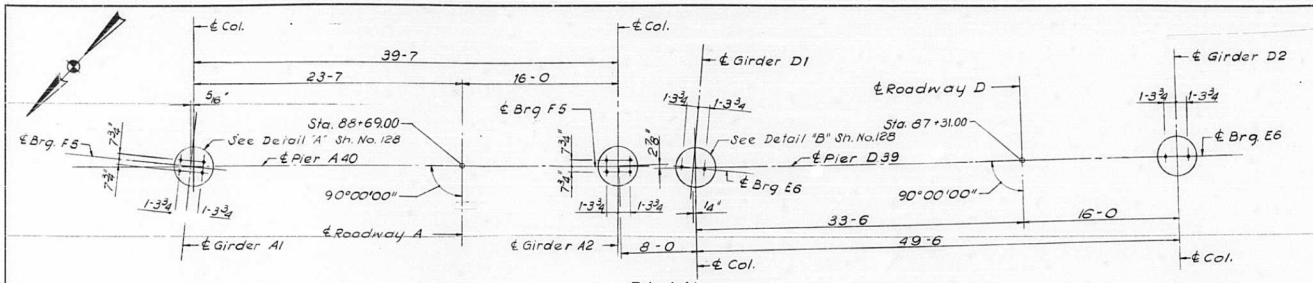
PIER A39

POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

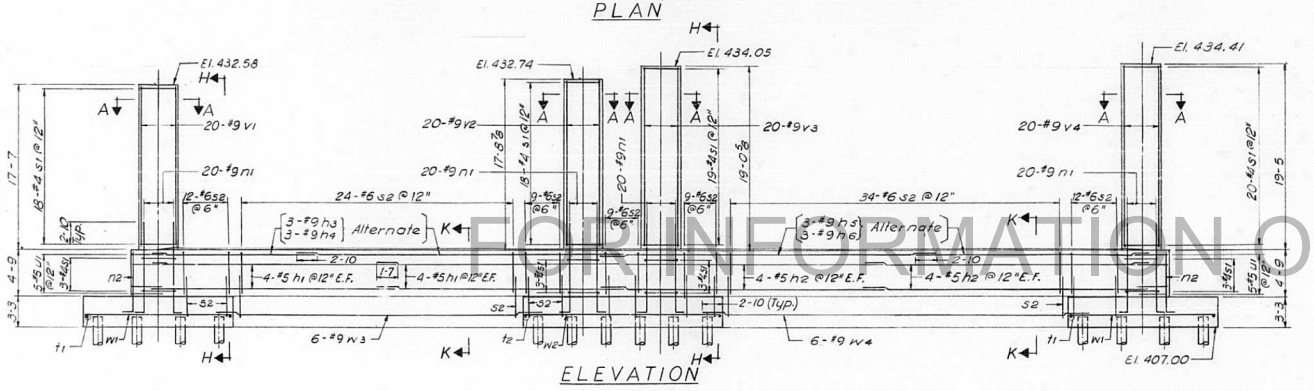
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-3

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

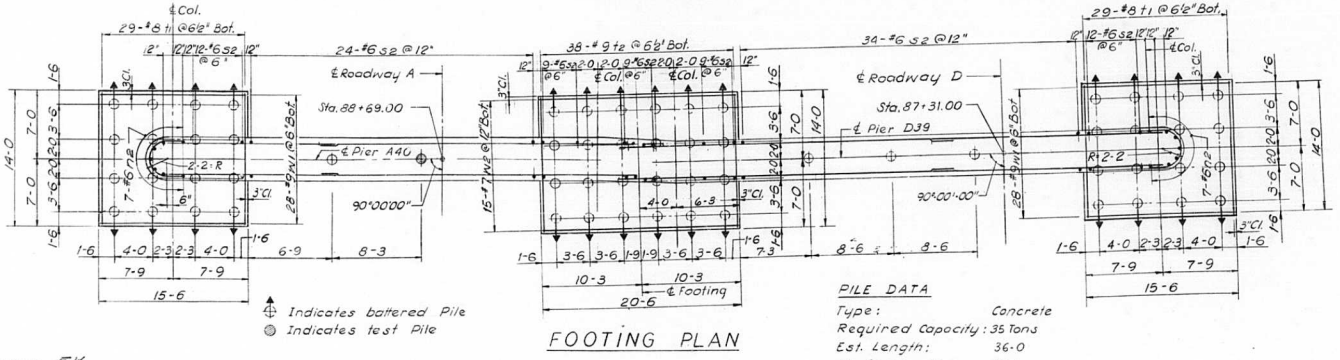
SHEET 131 OF 163



PLAN



ELEVATION



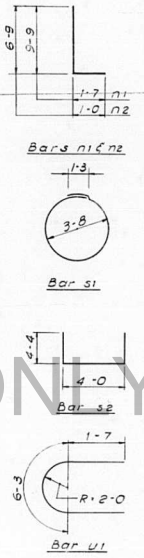
▲ Indicates battered Pile
◉ Indicates test Pile

FOOTING PLAN

PILE DATA

Type:	Concrete
Required Capacity:	35 Tons
Est. Length:	36·0
No. Required:	60 *
Test Pile:	1

* Does not include test pile



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	199
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

• Mark	No. Reqd.	Size	Length	Shape
132h1	16	#5	23·3	—
132h2	16	#5	28·3	—
132h3	3	#9	26·0	—
132h4	3	#9	20·4	—
132h5	3	#9	23·3	—
132h6	3	#9	35·0	—
132n1	80	#9	11·4	L
132n2	14	#6	7·9	L
132s1	87	#4	12·9	○
132s2	216	#6	12·8	⌊
132t1	58	#8	13·6	—
132t2	38	#9	13·6	—
132u1	10	#5	9·5	⊂
132v1	20	#9	17·5	—
132v2	20	#9	17·6	—
132v3	20	#9	18·10	—
132v4	20	#9	19·3	—
132w1	56	#9	15·0	—
132w2	15	#7	20·0	—
132w3	6	#9	29·7	—
132w4	6	#9	39·6	—

• See Note "X" Sh. No. 127

Item	Unit	Total
Class "A" Concrete	C.Y.	228.7
Reinforcement Bars	Lbs.	23,860
Concrete Piles	L.F.	2160
Test Piles	Each	1

Note: For Sections and Details see Sheet No. 128

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

PIER A40-D39

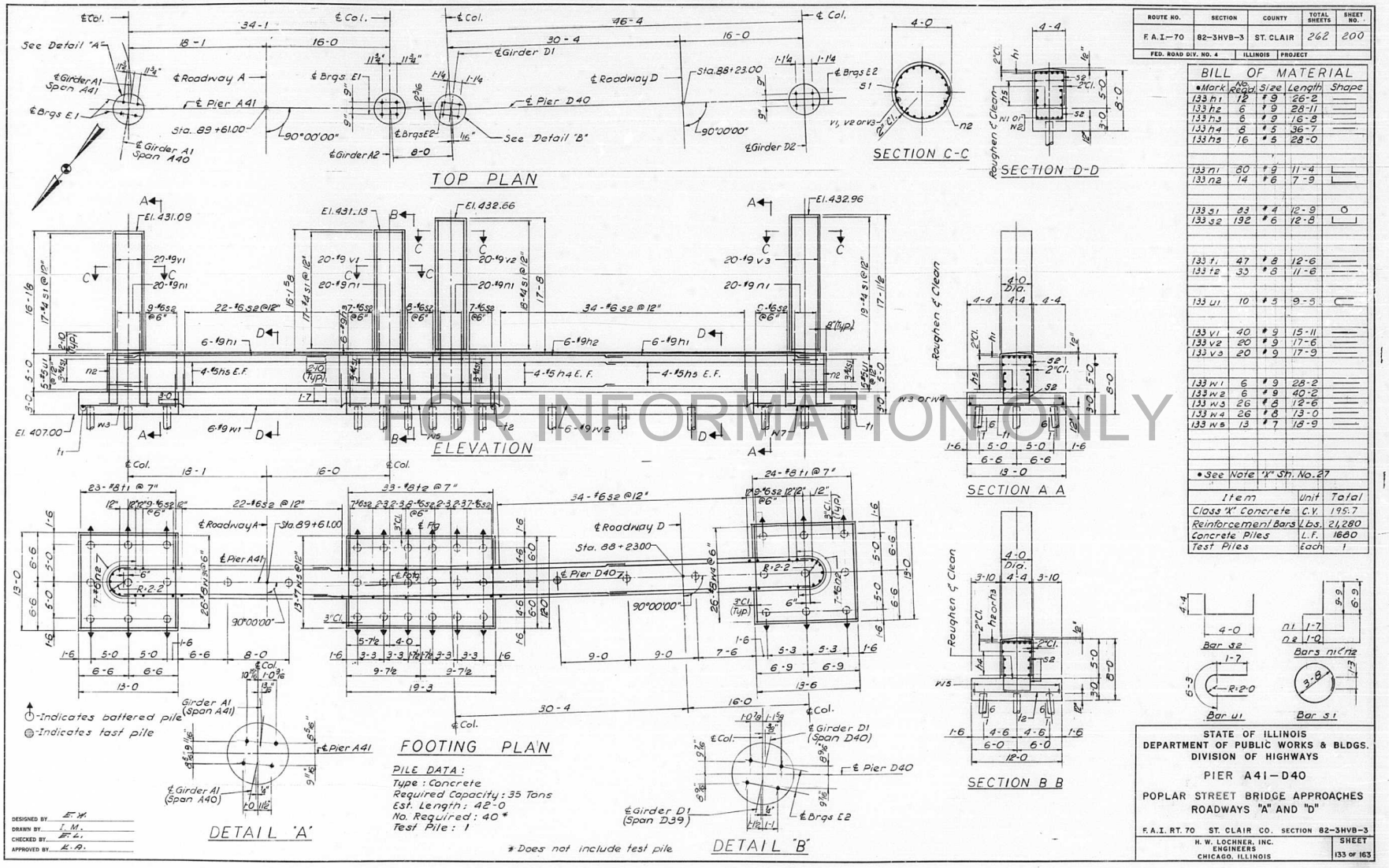
POPLAR STREET BRIDGE APPROACHES
ROADWAYS "A" AND "D"

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

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

SHEET 132 OF 163

DESIGNED BY F.W.
DRAWN BY I.M.
CHECKED BY F.L.
APPROVED BY K.A.



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82-3HVB-3	ST. CLAIR	262	200
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

•Mark	No. Reqd.	Size	Length	Shape
133 h1	72	# 9	26-2	
133 h2	6	# 9	28-11	
133 h3	6	# 9	16-8	
133 h4	8	# 5	36-7	
133 h5	16	# 5	28-0	
133 n1	80	# 9	11-4	
133 n2	14	# 6	7-9	
133 s1	63	# 4	12-9	
133 s2	192	# 6	12-8	
133 t1	47	# 8	12-6	
133 t2	33	# 8	11-6	
133 u1	10	# 5	9-5	
133 v1	40	# 9	15-11	
133 v2	20	# 9	17-6	
133 v3	20	# 9	17-9	
133 w1	6	# 9	28-2	
133 w2	6	# 9	40-2	
133 w3	26	# 8	12-6	
133 w4	26	# 8	13-0	
133 w5	13	# 7	18-9	

•See Note "X" Sh. No. 27

Item	Unit	Total
Class "X" Concrete	C.Y.	195.7
Reinforcement Bars	Lbs.	21,280
Concrete Piles	L.F.	1680
Test Piles	Each	1

* Does not include test pile.

PILE DATA:
Type: Concrete
Required Capacity: 35 Tons
Est. Length: 42-0
No. Required: 40 *
Test Pile: 1

DESIGNED BY E.W.
DRAWN BY I.M.
CHECKED BY E.L.
APPROVED BY K.A.

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

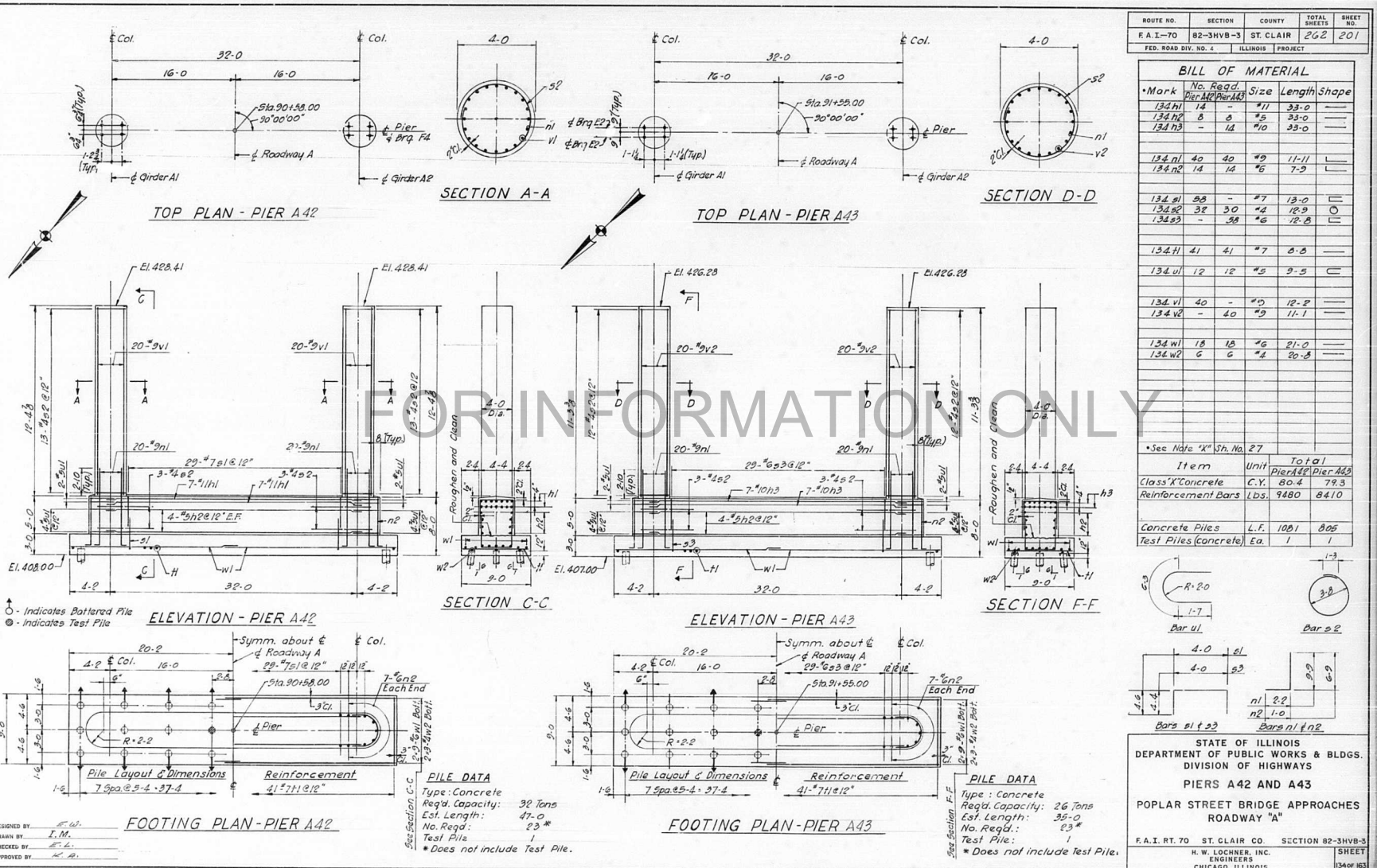
PIER A41—D40

POPLAR STREET BRIDGE APPROACHES
ROADWAYS "A" AND "b"

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

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

SHEET 133 OF 163



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82-3HVB-3	ST. CLAIR	262	201
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

•Mark	No. Reqd. Pier A42	No. Reqd. Pier A43	Size	Length	Shape
134 h1	14	-	#11	33-0	—
134 h2	8	8	#5	33-0	—
134 h3	-	14	#10	33-0	—
134 n1	40	40	#9	11-11	L
134 n2	14	14	#6	7-9	L
134 s1	98	-	#7	13-0	⊏
134 s2	32	30	#4	12-9	○
134 s3	-	98	#6	12-8	⊏
134 t1	41	41	#7	8-8	—
134 u1	12	12	#5	9-5	⊏
134 v1	40	-	#9	12-9	—
134 v2	-	40	#9	11-1	—
134 w1	18	18	#6	21-0	—
134 w2	6	6	#4	20-8	—

•See Note 'X' Sh. No. 27

Item	Unit	Total Pier A42	Total Pier A43
Class 'X' Concrete	C.Y.	80.4	79.3
Reinforcement Bars	Lbs.	9480	8410
Concrete Piles	L.F.	1081	805
Test Piles (concrete)	Ea.	1	1

PILE DATA

Type: Concrete
Reg'd. Capacity: 32 Tons
Est. Length: 47-0
No. Reqd: 23 *
Test Pile 1
* Does not include Test Pile.

See Section C-C

PILE DATA

Type: Concrete
Reqd. Capacity: 26 Tons
Est. Length: 36-0
No. Reqd.: 23 *
Test Pile: 1
* Does not include Test Pile.

See Section F-F

DESIGNED BY F. W.
DRAWN BY I. M.
CHECKED BY E. L.
APPROVED BY H. A.

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

PIERS A42 AND A43

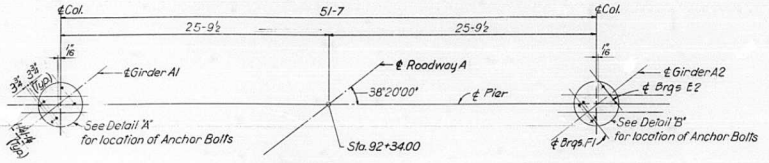
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

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

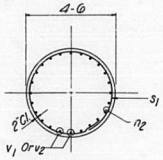
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 134 of 163

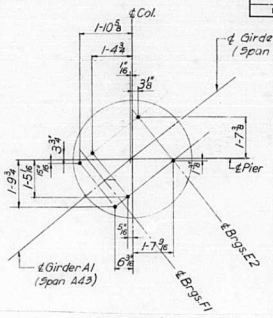
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82-3HVB-3	ST. CLAIR	262	202
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



TOP PLAN



SECTION B-B

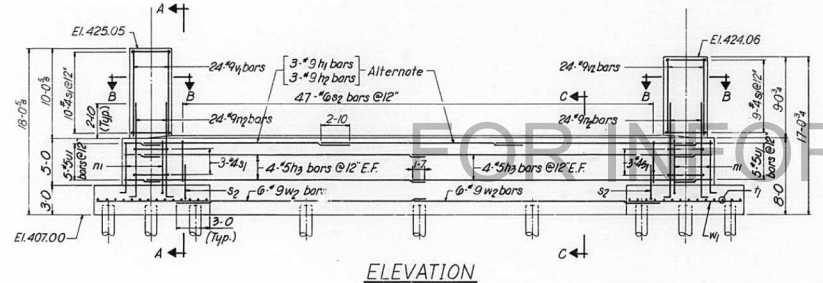


DETAIL 'A'

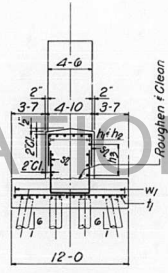
BILL OF MATERIAL

MARK	No. REQ'D	SIZE	LENGTH	SHAPE
135h1	3	#9	35-0	—
135h2	3	#9	20-5	—
135h3	16	#5	27-1	—
135n1	20	#6	7-9	L
135n2	22	#9	11-4	L
135s1	25	#4	14-4	O
135s2	94	#6	13-2	U
135t1	30	#8	11-8	—
135u1	10	#5	10-2	C
135v1	24	#9	9-10	—
135v2	24	#9	8-10	—
135w1	36	#8	11-8	—
135w2	12	#9	24-0	—
● See Note "X" Sh. No. 27				

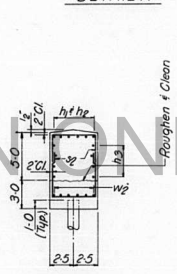
ITEM	UNIT	TOTAL
Class 'X' Concrete	Cu. Yds.	114.1
Reinforcement Bars	Lbs.	9890
Concrete Piles	L. F.	1092
Test Pile	Ea.	1



ELEVATION

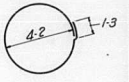


SECTION A-A

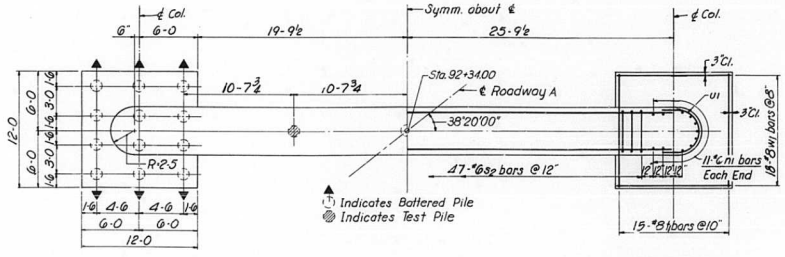


SECTION C-C

Bars n1 n2



Bar s1



PILE LAYOUT AND DIMENSIONS

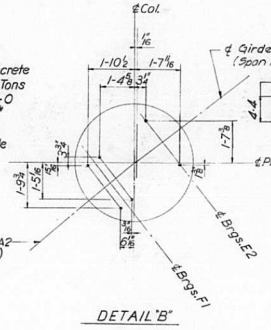
REINFORCEMENT

FOOTING PLAN

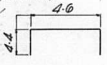
PILE DATA

Type:	Concrete
Required Capacity:	30 Tons
Estimated Length:	42'-0
No. Required:	26*
Test Pile:	1

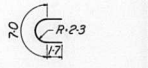
*Does not include Test Pile



DETAIL 'B'



Bar s2



Bar u1

DESIGNED BY E.W.
DRAWN BY HAMILTON
CHECKED BY E.L.
APPROVED BY K.A.

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

PIER A44

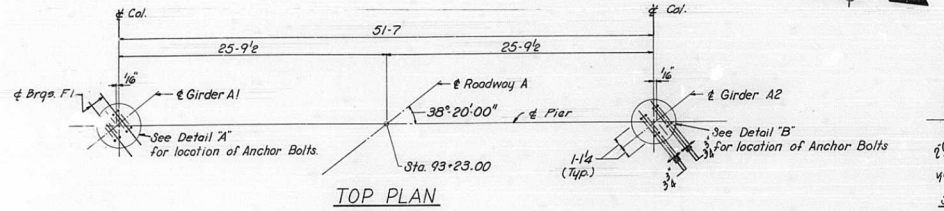
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

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

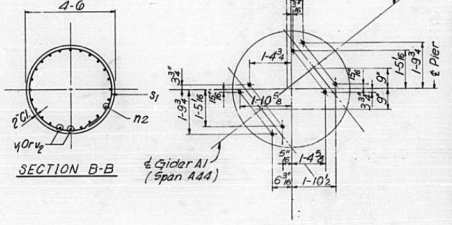
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 135 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82-3HVB-3	ST. CLAIR	262	203
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



TOP PLAN



SECTION B-B

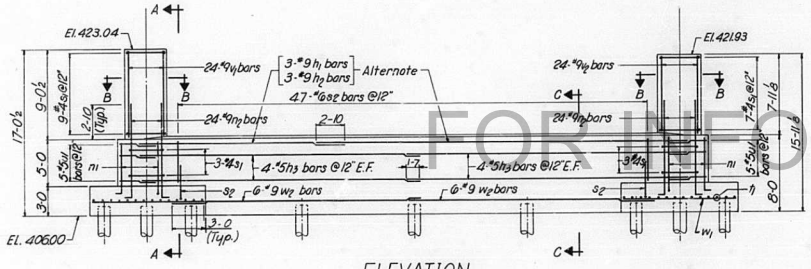
DETAIL "A"

BILL OF MATERIAL

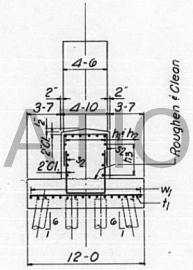
●MARK	No. REQD	SIZE	LENGTH	SHAPE
13Gh1	6	#9	35-0	—
13Gh2	6	#9	20-5	—
13Gh3	16	#5	27-1	—
13Gn1	22	#6	7-9	L
13Gn2	48	#9	11-4	L
13Gs1	22	#4	14-4	O
13Gs2	24	#6	13-8	U
13Gt1	30	#8	11-8	—
13Gu1	10	#5	10-2	C
13Gv1	24	#9	8-10	—
13Gv2	24	#9	7-9	—
13Gw1	36	#8	11-8	—
13Gw2	12	#9	24-0	—

● See Note "X" Sh. No. 27

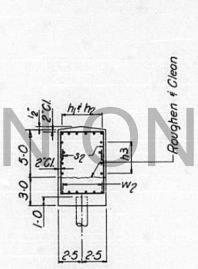
ITEM	UNIT	TOTAL
Class "X" Concrete	Cu. Yds.	112.9
Reinforcement Bars	Lbs.	19,250
Concrete Piles	L.F.	384
Test Pile	Ea.	1



ELEVATION

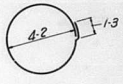


SECTION A-A

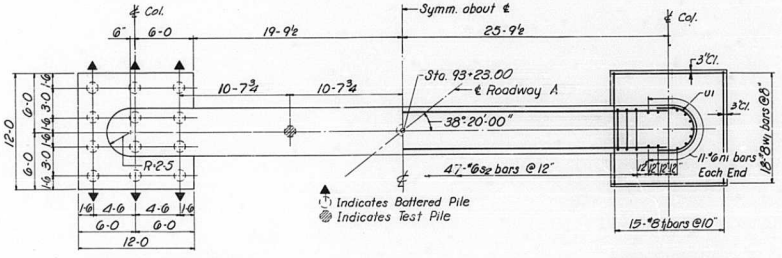


SECTION C-C

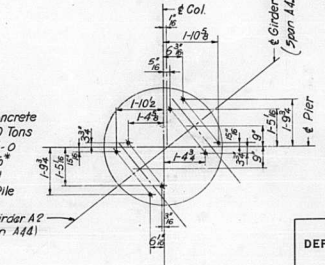
Bars n1 & n2



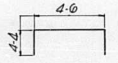
Bar s1



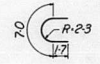
PILE LAYOUT AND DIMENSIONS



DETAIL "B"



Bar s2



Bar u1

PILE DATA

Type:	Concrete
Required Capacity:	30 Tons
Estimated Length:	34-0
No. Required:	26*
Test Pile:	1

*Does not include Test Pile

REINFORCEMENT

FOOTING PLAN

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

PIER A45

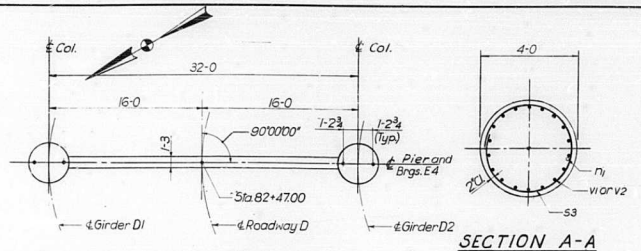
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

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

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

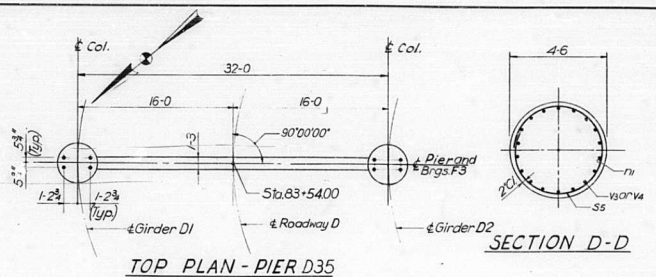
SHEET 136 OF 163

DESIGNED BY E.W.
DRAWN BY HAMILTON
CHECKED BY E.L.
APPROVED BY K.A.



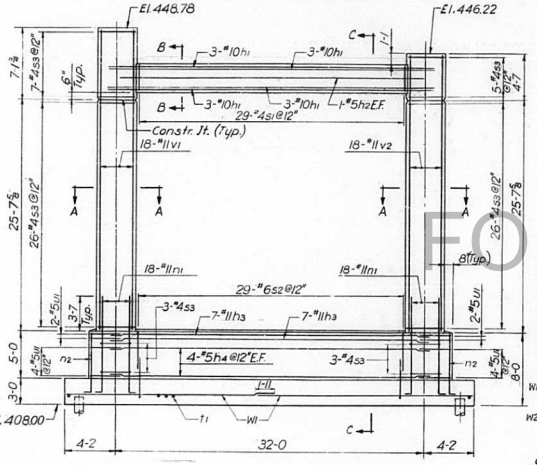
TOP PLAN - PIER D34

SECTION A-A

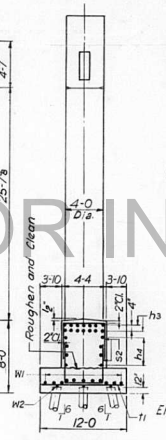


TOP PLAN - PIER D35

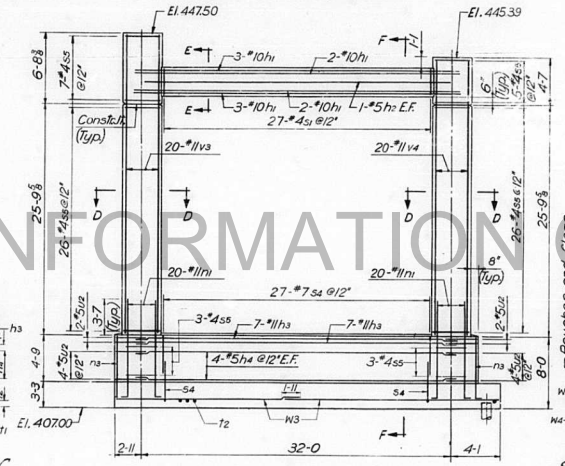
SECTION D-D



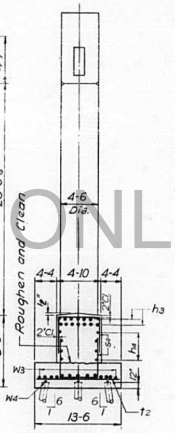
ELEVATION - PIER D34



SECTION C-C

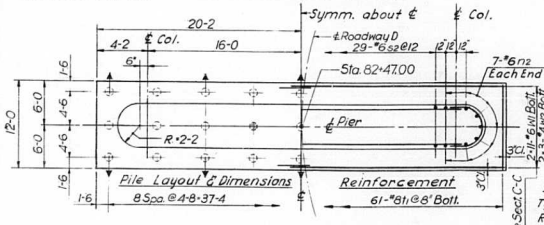


ELEVATION - PIER D35

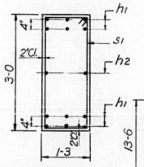


SECTION F-F

Indicates Battered Pile
Indicates Test Pile

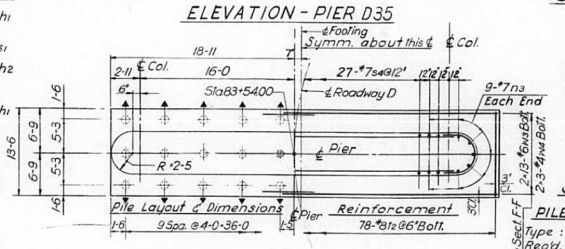


FOOTING PLAN - PIER D34

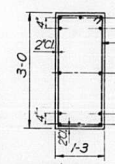


SECTION B-B

PILE DATA
Type: Concrete
Req'd. Capacity: 35 Tons
Est. Length: 42-0
No. Req'd: 26*
Test Pile 1
* Does not include Test Pile



FOOTING PLAN - PIER D35



SECTION E-E

PILE DATA
Type: Concrete
Req'd. Capacity: 36 Tons
Est. Length: 48-0
No. Req'd.: 29*
Test Pile: 1
* Does not include Test Pile

DESIGNED BY E.W.
DRAWN BY T.M.
CHECKED BY E.L.
APPROVED BY K.A.

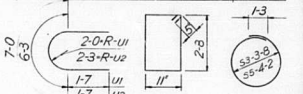
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I—70	82-3HVB-3	ST. CLAIR	262	204
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

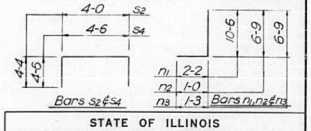
•Mark	No. Req'd. Pier D34	No. Req'd. Pier D35	Size	Length	Shape
137 h1	12	10	#10	34-4	
137 h2	2	2	#5	30-6	
137 h3	14	14	#11	33-0	
137 h4	8	8	#5	33-0	
137 n1	36	40	#11	12-8	
137 n2	14	-	#6	7-9	
137 n3	-	18	#7	8-0	
137 s1	29	27	#4	8-0	
137 s2	58	-	#6	12-8	
137 s3	70	-	#4	12-9	
137 s4	-	54	#7	13-6	
137 s5	-	70	#4	14-4	
137 t1	61	-	#8	11-8	
137 t2	-	78	#8	13-2	
137 u1	12	-	#5	9-5	
137 u2	-	12	#5	10-2	
137 v1	18	-	#11	32-7	
137 v2	18	-	#11	30-0	
137 v3	-	20	#11	32-4	
137 v4	-	20	#11	30-2	
137 w1	22	-	#6	21-0	
137 w2	6	-	#4	20-8	
137 w3	-	26	#6	20-3	
137 w4	-	6	#4	19-11	

•See Note "X" Sh. No. 27

Item	Unit	Total Pier D34	Total Pier D35
Class 'X' Concrete	C.Y.	115.4	129.7
Reinforcement Bars	Lbs.	17,790	19,940
Concrete Piles	L.F.	1092	1392
Test Piles (Concrete)	Ea.	1	1



Bars u1 & u2 Bar s1 Bars s3 & s5



Bars s2 & s4

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

PIERS D34 AND D35

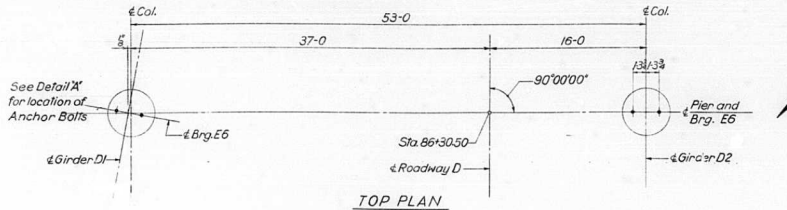
POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

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

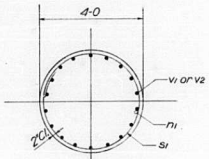
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 137 of 163

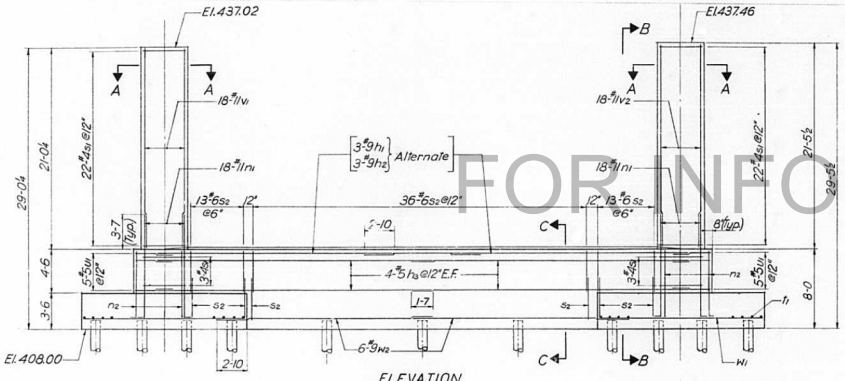
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	62-3HVB-3	ST. CLAIR	262	205
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



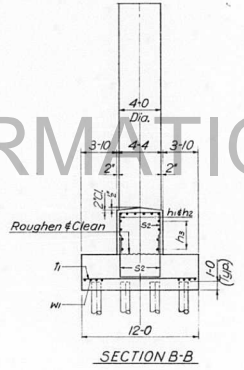
TOP PLAN



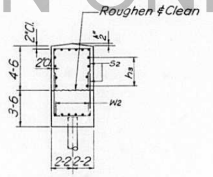
SECTION A-A



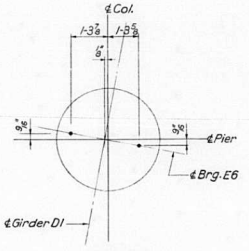
ELEVATION



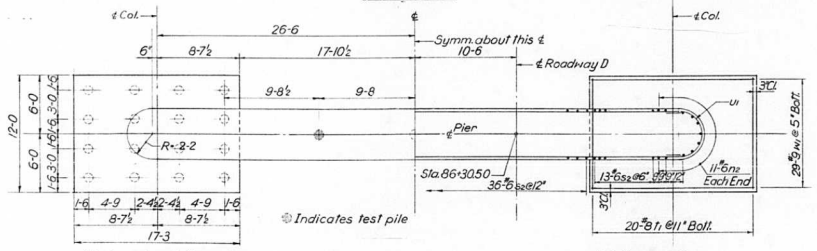
SECTION B-B



SECTION C-C



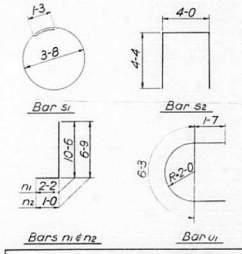
DETAIL 'A'



Pile layout and dimensions

Reinforcement

FOOTING PLAN



PILE DATA	
Type:	Concrete
Required Capacity:	29 Tons
Est. Length:	41-0
No. Required:	34*
Test Pile:	1

*Does not include test pile

BILL OF MATERIAL

*Mark	No. Reqd.	Size	Length	Shape
138 h1	6	#9	32'-6	
138 h2	6	#9	24'-4	
138 h3	16	#5	27'-10	
138 n1	36	#11	12'-8	
138 n2	22	#6	7'-9	
138 s1	50	#4	12'-9	
138 s2	124	#6	12'-8	
138 f1	40	#8	11'-6	
138 u1	19	#5	9'-5	
138 v1	18	#11	20'-10	
138 v2	18	#11	21'-3	
138 w1	58	#9	16'-9	
138 w2	12	#9	22'-2	

*See Note 'X' Sheet No. 27

Item	Unit	Total
Class 'X' Concrete	C.Y.	133.9
Reinforcement Bars	Lbs.	16,650
Concrete Piles	L.F.	1394
Test Pile	Ea.	1

DESIGNED BY E.W.
DRAWN BY H.B.
CHECKED BY E.L.
APPROVED BY K.A.

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

PIER D38

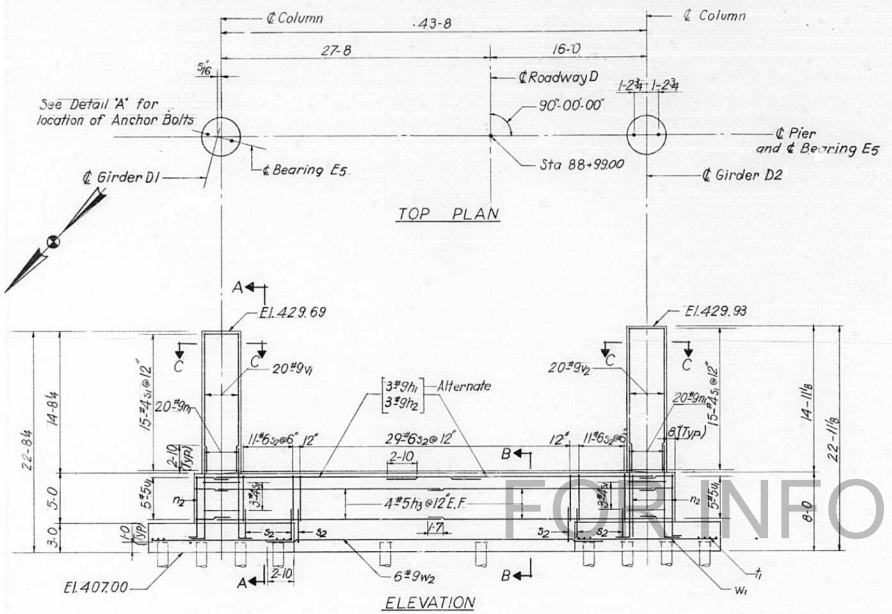
POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

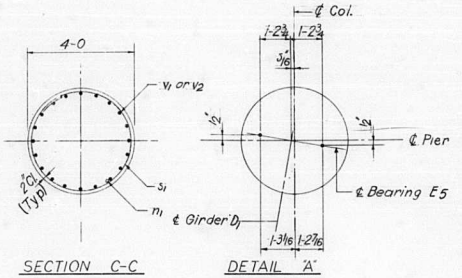
F.A.I. RT. 70 ST. CLAIR CO. SECTION 62-3HVB-3

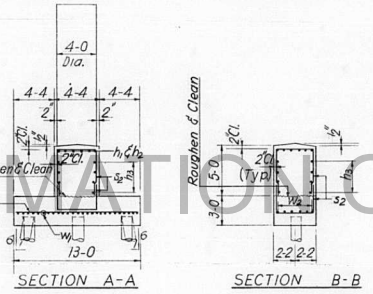
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 138 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I.—70	82-3HVB-3	ST. CLAIR	262	206
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



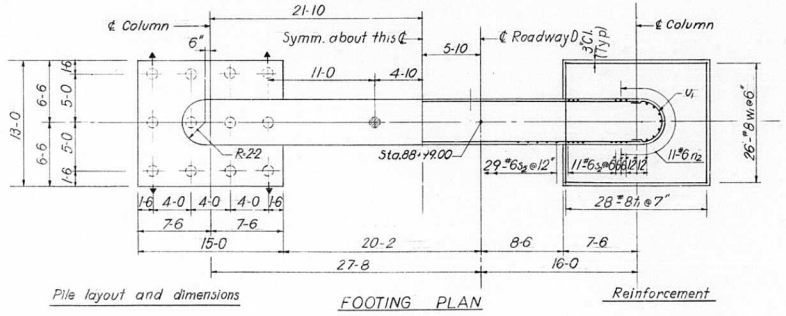


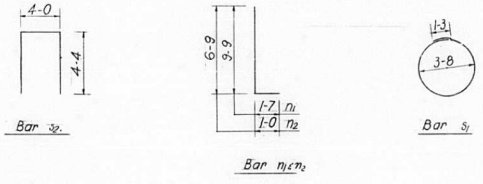


*Mark	No. reqd	Size	Length	Shape
139 h_1	6	#9	27-0	
139 h_2	6	#9	21-6	
139 h_3	16	#5	23-7	
139 n_1	40	#9	11-4	
139 n_2	22	#6	7-9	
139 s_1	36	#4	12-9	
139 s_2	102	#6	12-8	
139 t_1	56	#8	12-8	
139 u_1	10	#5	9-5	
139 v_1	20	#9	14-6	
139 v_2	20	#9	14-9	
139 w_1	52	#8	14-3	
139 w_2	6	#9	34-4	

*See note 'X' Sheet No. 27

Item	Unit	Total
Class 'X' Concrete	C.Y.	108.7
Reinforcement bars	Lbs.	12,150
Concrete Piles	L.F.	1025
Test Pile	Ea.	1





PILE DATA

Type:	Concrete
Required Capacity:	32 Tons
Est. Length	41-0
No. Required	25*
Test Pile	1

*Does not include test pile

○ Indicates test pile.

◉ Indicates battered piles.

DESIGNED BY E.W.
DRAWN BY E.C.
CHECKED BY E.L.
APPROVED BY K.A.

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

PIER D41

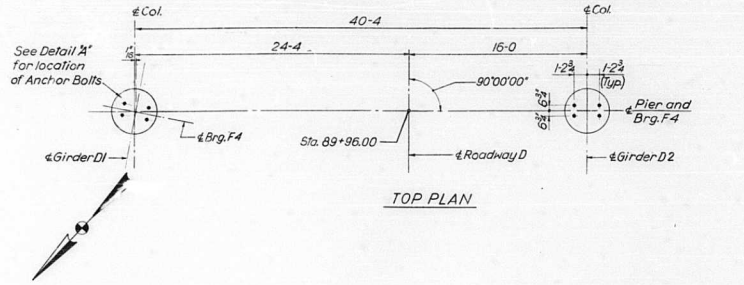
POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

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

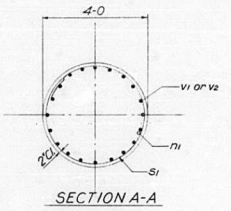
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 139 OF 163

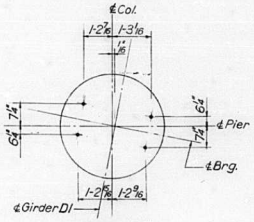
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82-3HVB-3	ST. CLAIR	262	207
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	



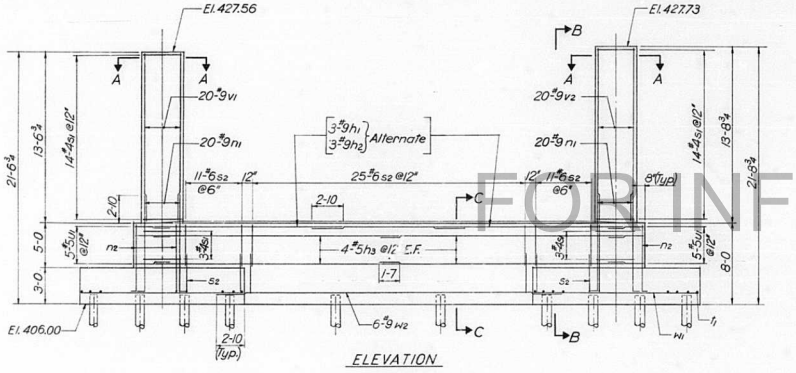
TOP PLAN



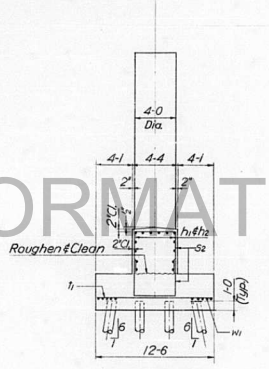
SECTION A-A



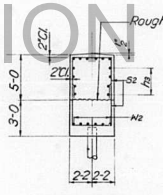
DETAIL 'A'



ELEVATION



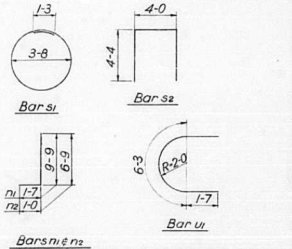
SECTION B-B

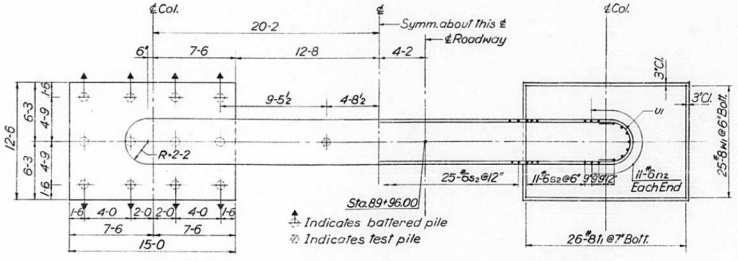


SECTION C-C

BILL OF MATERIAL				
•Mark	No.Reqd.	Size	Length	Shape
140 h1	6	#9	27-6	
140 h2	6	#9	16-8	
140 h3	16	#5	21-6	
140 n1	40	#9	11-4	
140 n2	22	#6	7-9	
140 S1	34	#4	12-9	
140 S2	94	#6	12-8	
140 f1	52	#8	12-2	
140 U1	10	#5	9-5	
140 V1	20	#9	13-4	
140 V2	20	#9	13-6	
140 W1	50	#8	14-8	
140 W2	6	#9	31-0	

•See Note 'X' Sheet No. 27		
Item	Unit	Total
Class 'X' Concrete	C.Y.	101.7
Reinforcement Bars	Lbs.	11,340
Concrete Piles	L.F.	1050
Test Pile	Ea.	1





Pile layout and dimensions

Reinforcement

FOOTING PLAN

Indicates battered pile
Indicates test pile

PILE DATA

Type:	Concrete
Required Capacity:	33 Tons
Est. Length:	42-0
No. Required:	25*
Test Pile:	1

*Does not include test pile

DESIGNED BY	E.W.
DRAWN BY	H.B.
CHECKED BY	E.L.
APPROVED BY	K.A.

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

PIER D42

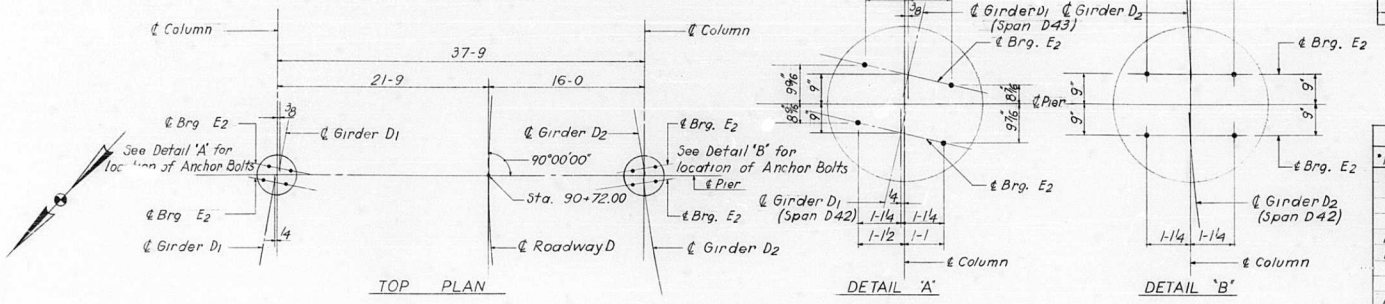
POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

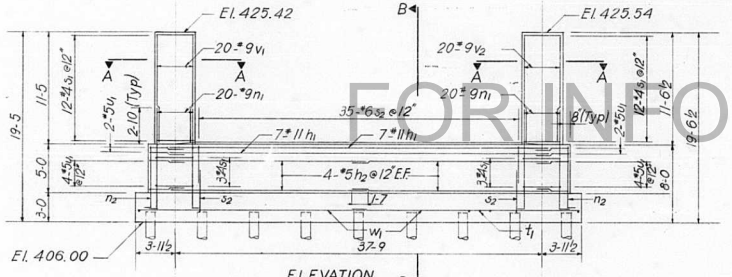
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-3

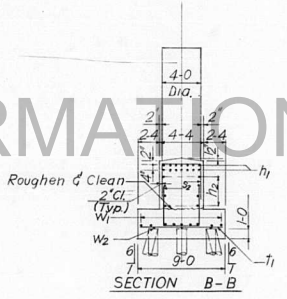
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

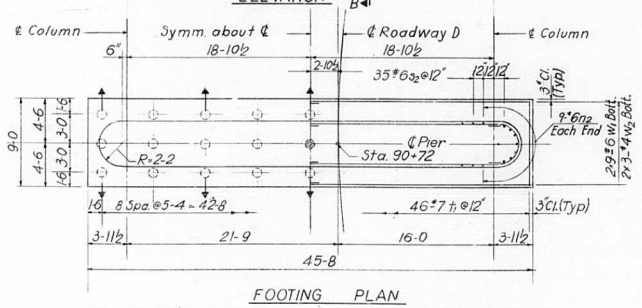
SHEET 140 OF 163

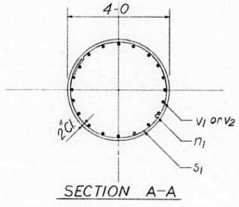
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.–70	82–3HVB–3	ST. CLAIR	262	208
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

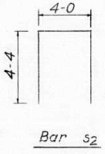


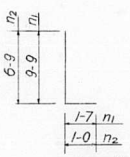


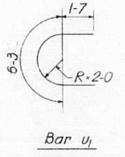


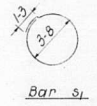












BILL OF MATERIAL

*Mark	No. reqd	Size	Length	Shape
141 h1	14	#11	39-0	
141 h2	16	#5	20-3	
141 n1	40	#9	11-4	
141 n2	18	#6	7-9	
141 s1	30	#4	12-9	
141 s2	70	#6	12-8	
141 t1	46	#7	8-8	
141 u1	12	#5	9-5	
141 v1	20	#9	11-2	
141 v2	20	#9	11-4	
141 w1	18	#6	23-8	
141 w2	6	#4	23-4	

*See note 'X' Sheet No. 27

Item	Unit	Total
Class 'X' Concrete	C.Y.	89.4
Reinforcement Bars	Lbs.	9,770
Concrete Piles	L.F.	988
Test Pile	Ea.	1

Indicates test pile
Indicates battered pile

PILE DATA

Type: Concrete
Required Capacity: 24 Tons
Est. Length: 38-0
No. Required 26*
Test Pile: 1

*Does not include test pile.

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

PIER D43

POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

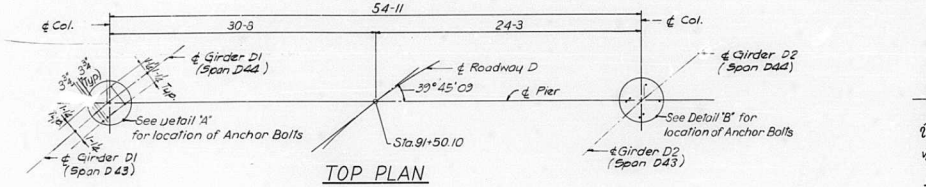
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82–3HVB–3

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

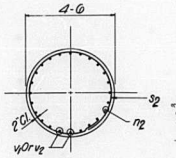
SHEET 141 OF 163

DESIGNED BY E.W.
DRAWN BY E.C.
CHECKED BY E.L.
APPROVED BY K.A.

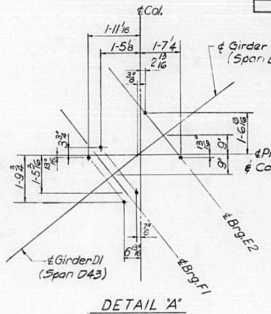
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I.—70	82-3HVB-3	ST. CLAIR	262	209
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



TOP PLAN



SECTION B-B



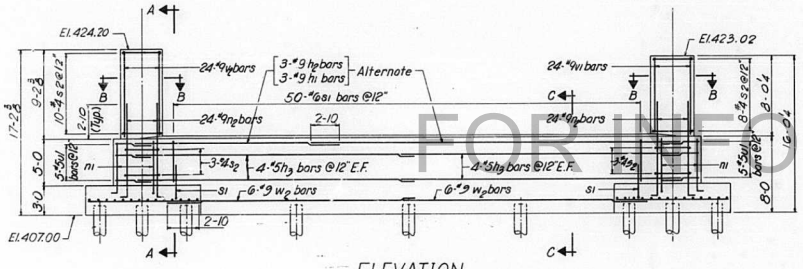
DETAIL 'A'

BILL OF MATERIAL

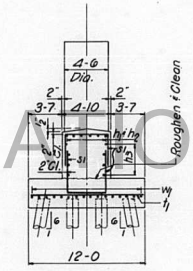
MARK	No. REQD	SIZE	LENGTH	SHAPE
142 h1	6	#7	36-0	—
142 h2	3	#7	22-9	—
142 h3	16	#5	28-11	—
142 n1	22	#6	7-9	L
142 n2	48	#9	11-4	L
142 s1	100	#6	13-2	○L
142 s2	24	#4	14-4	○L
142 t1	30	#8	11-8	—
142 u1	10	#5	10-2	C
142 v1	24	#9	7-10	—
142 v2	24	#9	9-0	—
142 w1	36	#8	11-8	—
142 w2	12	#9	8-2	—

● See Note "X" Sh. No. 27

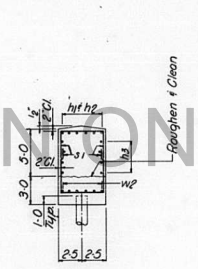
ITEM	UNIT	TOTAL
Class 'X' Concrete	Cu. Yds.	117.8
Reinforcement Bars	Lbs.	10,580
Concrete Piles	L. F.	1092
Test Pile	Ea.	1



ELEVATION

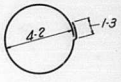


SECTION A-A

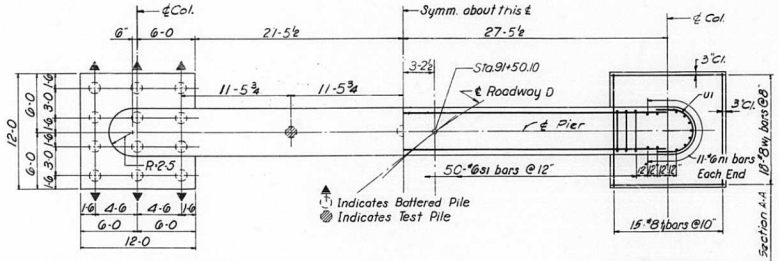


SECTION C-C

Bars n1 n2



Bar s2



PILE LAYOUT AND DIMENSIONS

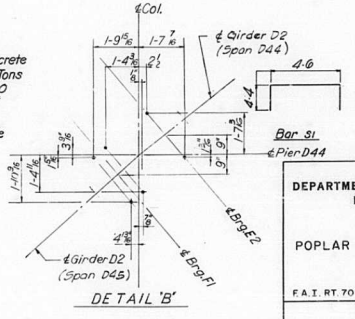
REINFORCEMENT

FOOTING PLAN

PILE DATA

Type:	Concrete
Required Capacity:	30 Tons
Estimated Length:	42·0
No. Required:	26*
Test Pile:	1

*Does not include Test Pile



Bar u1

DESIGNED BY E.W.
DRAWN BY HAMILTON
CHECKED BY E.L.
APPROVED BY K.A.

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

PIER D44

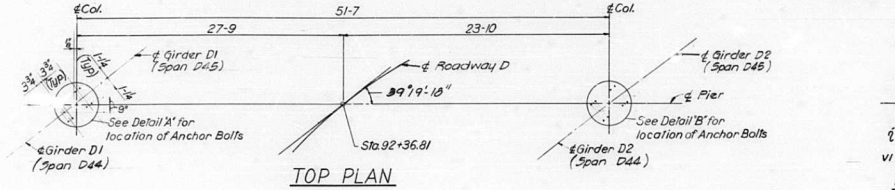
POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

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

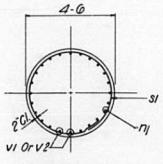
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET
142 OF 163

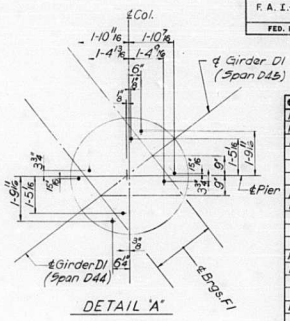
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I.—70	82-3HVB-3	ST. CLAIR	262	210
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



TOP PLAN



SECTION B-B



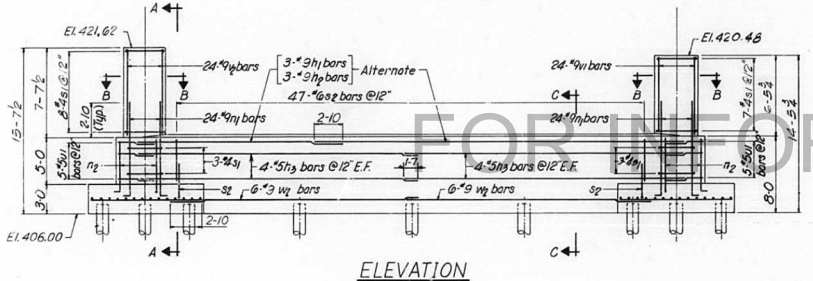
DETAIL 'A'

BILL OF MATERIAL

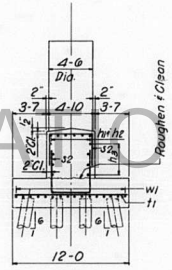
MARK	NO. REQD	SIZE	LENGTH	SHAPE
143 h1	6	#3	35-0	—
143 h2	6	#9	20-6	—
143 h3	16	#3	27-1	—
143 n1	48	#9	11-4	L
143 n2	22	#6	7-9	L
143 s1	21	#4	14-4	O
143 s2	24	#6	13-2	U
143 t1	30	#8	11-8	—
143 u1	10	#5	10-2	C
143 v1	24	#9	6-3	—
143 v2	24	#9	7-5	—
143 w1	36	#8	11-8	—
143 w2	12	#9	24-0	—

● See Note "X" Sh. No. 27

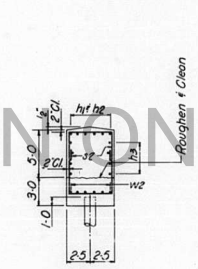
ITEM	UNIT	TOTAL
Class 'X' Concrete	Cu. Yds.	111.2
Reinforcement Bars	Lbs.	10,010
Concrete Piles	L. F.	806
Test Pile	Ea.	1



ELEVATION

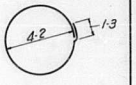


SECTION A-A

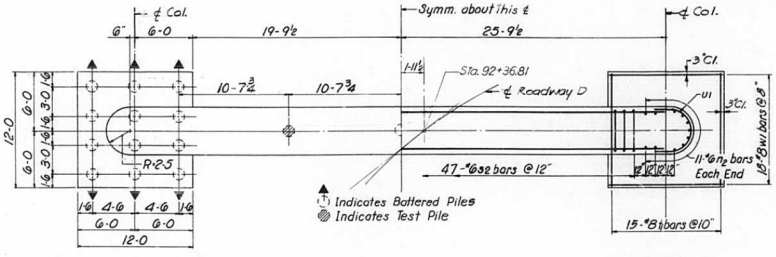


SECTION C-C

Bars n1 & n2



Bar s1



PILE LAYOUT AND DIMENSIONS

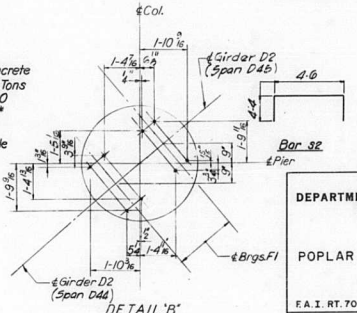
REINFORCEMENT

FOOTING PLAN

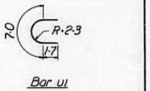
PILE DATA

Type:	Concrete
Required Capacity:	30 Tons
Estimated Length:	31-0
No. Required:	26*
Test Pile:	1

*Does not include Test Pile



DETAIL 'B'



Bar u1

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

PIER D45

POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

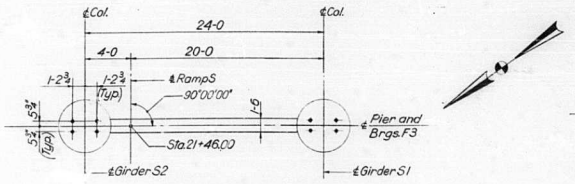
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-3

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

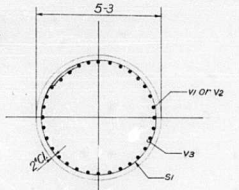
SHEET 143 OF 163

DESIGNED BY E.W.
DRAWN BY HAMILTON
CHECKED BY E.L.
APPROVED BY K.A.

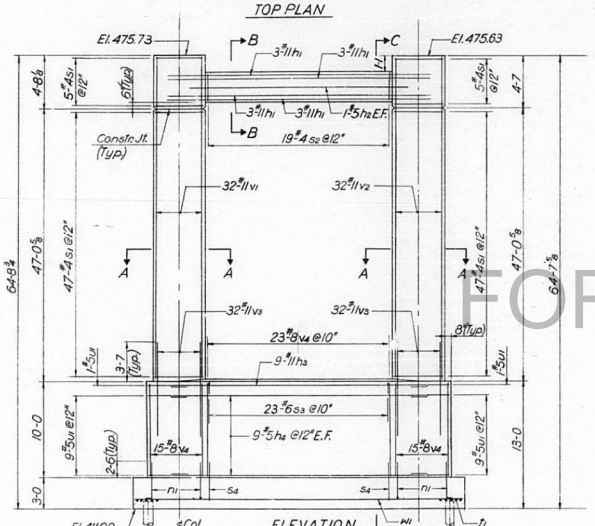
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I. — 70	82-3HVB-3	ST. CLAIR	262	211
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	



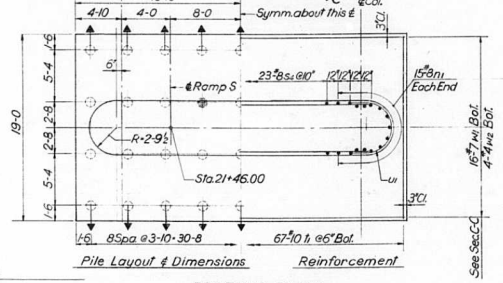
TOP PLAN



SECTION A-A

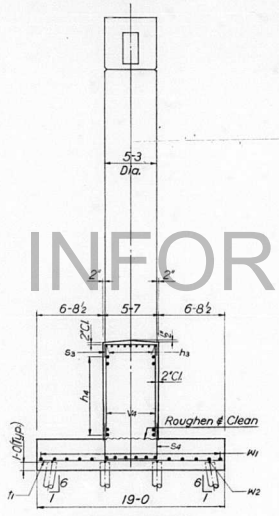


ELEVATION

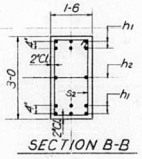


Pile Layout & Dimensions | Reinforcement

FOOTING PLAN



SECTION C-C



SECTION B-B

▲ Indicates battered pile
⊕ Indicates test pile

PILE DATA

Type:	Concrete
Required Capacity:	34 Tons
Est. Length:	42-0
No. Required:	35*
Test Pile:	1

* Does not include test pile.

BILL OF MATERIAL

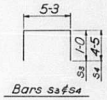
•Mark	No. Req'd.	Size	Length	Shape
144 h1	12	#11	26-6	
144 h2	2	#5	21-3	
144 h3	9	#11	25-1	
144 h4	18	#5	25-0	
144 n1	30	#8	5-10	
144 S1	104	#4	16-8	
144 S2	19	#4	8-6	
144 S3	23	#6	7-3	
144 S4	23	#8	14-1	
144 f1	67	#10	18-8	
144 u1	20	#5	11-5	
144 V1	32	#11	51-6	
144 V2	32	#11	51-4	
144 V3	64	#11	9-2	
144 V4	53	#8	9-10	
144 W1	16	#7	33-4	
144 W2	4	#4	33-4	

• See Note 'X' Sheet No. 27

Item	Unit	Total
Class 'X' Concrete	C.Y.	216.7
Reinforcement Bars	Lbs.	35,040
Concrete Piles	L.F.	1470
Test Pile	Ea.	1

Bar S1

Bar S2



Bars S3 & S4

Bar U1

Bar N1

DESIGNED BY. E.W.
DRAWN BY. H.B.
CHECKED BY. E.L.
APPROVED BY. K.A.

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

PIER S19

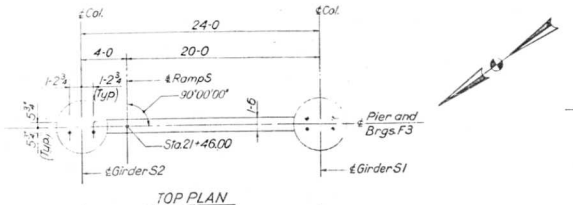
PORLAR STREET BRIDGE APPROACHES
RAMP "S"

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

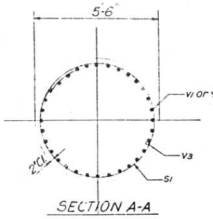
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 144 OF 163

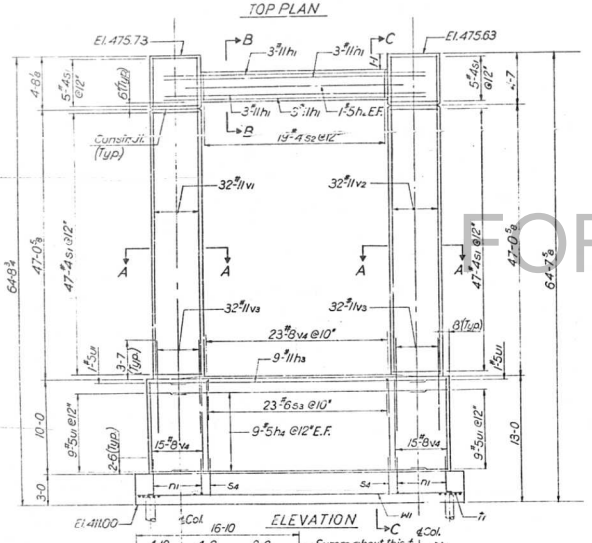
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I. — 70	82-3HVB-3	ST. CLAIR	262	211A
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

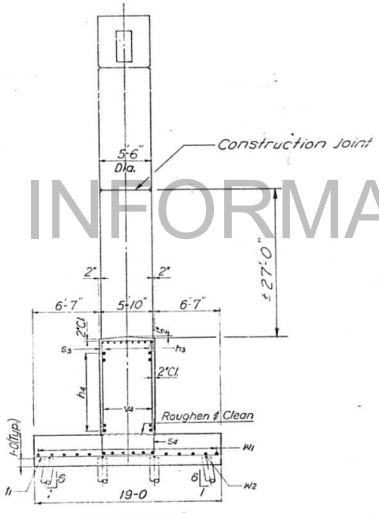


TOP PLAN

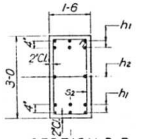


SECTION A-A

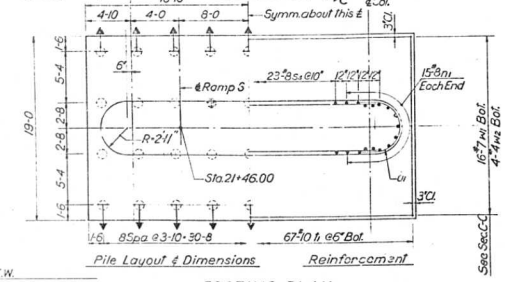




SECTION C-C



SECTION B-B



▲ Indicates battered pile
○ Indicates test pile

PILE DATA

Type:	Concrete
Required Capacity:	34 Tons
Est. Length:	42-0
No. Required:	35*
Test Pile:	1

*Does not include test pile.

"AS REVISED" (3-26-68)

Note: At the request of the Contractor the diameter of the pier columns were increased from 5'-3" to 5'-6" and the collision wall from 5'-7" to 5'-10" in width with the resulting revision in reinforcement.

A construction joint was added at ± 27'-0" above the collision wall.

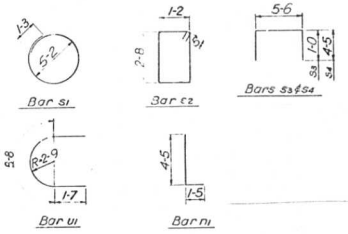
Quantities of Class X Concrete and Reinforcement have not been revised.

BILL OF MATERIAL

Mark	No. Reqd.	Size	Length	Shape
144 h1	12	#11	26-6	
144 h2	2	#5	21-3	
144 h3	9	#11	25-0	
144 h4	18	#5	25-0	
144 n1	30	#8	5-10	
144 S1	104	#4	17-6	
144 S2	19	#4	8-6	
144 S3	23	#6	7-6	
144 S4	23	#8	14-4	
144 t1	67	#10	18-8	
144 U1	20	#5	11-10	
144 V1	32	#11	51-6	
144 V2	32	#11	51-4	
144 V3	64	#11	9-2	
144 V4	53	#8	9-10	
144 W1	16	#7	33-4	
144 W2	4	#4	33-4	

*See Table 'X' Sheet No. 27

Item	Unit	Total
Class 'X' Concrete	C.Y.	216.7
Reinforcement Bars	Lbs.	35,040
Concrete Piles	L.F.	1470
Test Pile	Ea.	1



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

PIER S19

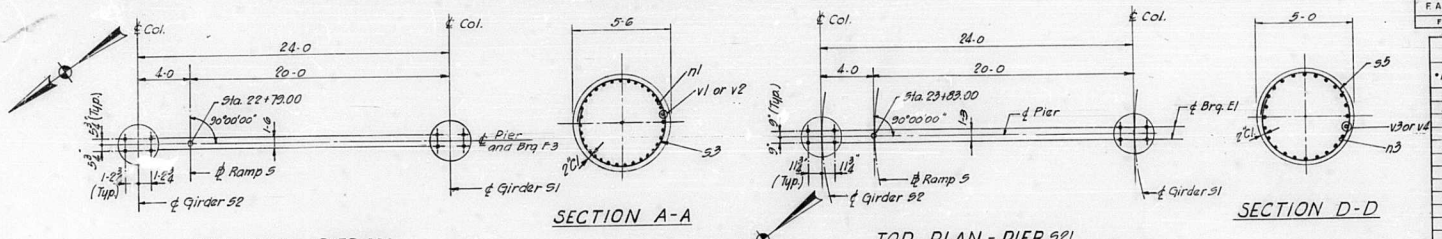
POPLAR STREET BRIDGE APPROACHES
RAMP "S"

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

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

SHEET 144 of 163

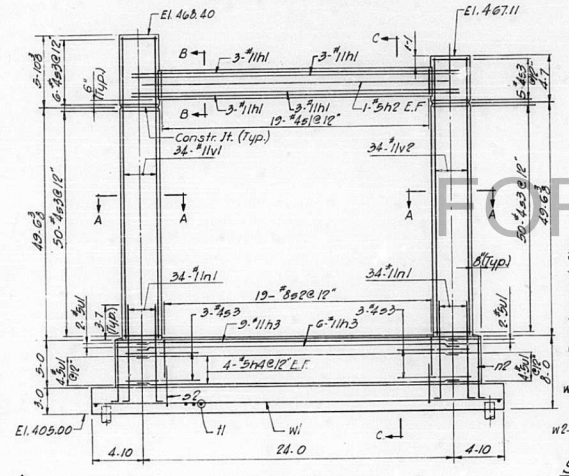
DESIGNED BY E.W.
DRAWN BY H.B.
CHECKED BY E.L.
APPROVED BY K.A.



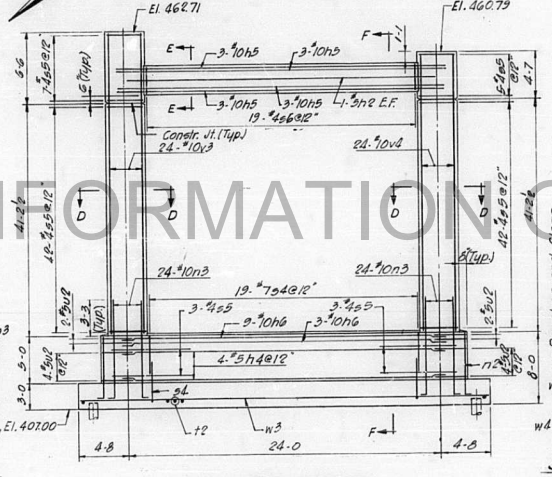
SECTION A-A

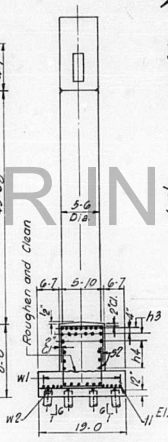
SECTION D-D

TOP PLAN - PIER S20

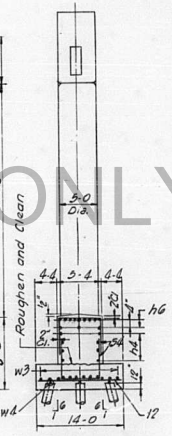


TOP PLAN - PIER S21





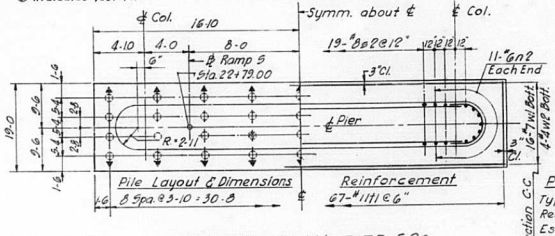
SECTION C-C



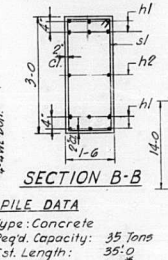
SECTION F-F

▲-Indicates Battered File
⊘-Indicates Test File

ELEVATION - PIER S20

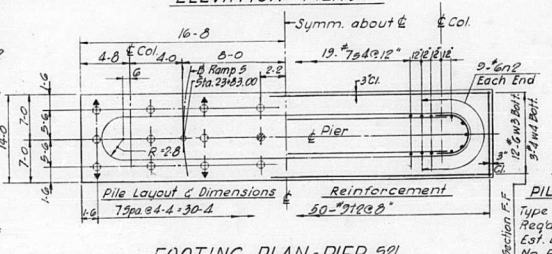


FOOTING PLAN - PIER S20

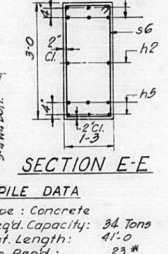


SECTION B-B

ELEVATION - PIER S21



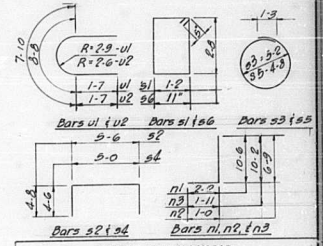
FOOTING PLAN - PIER S21



SECTION E-E

PILE DATA
Type: Concrete
Req'd. Capacity: 35 Tons
Est. Length: 35'-0
No. Req'd: 35 *
Test Pile 1
* Does not include Test Pile.
See Section C-C

PILE DATA
Type: Concrete
Req'd. Capacity: 34 Tons
Est. Length: 41'-0
No. Req'd.: 23 *
Test Pile: 1
* Does not include Test Pile.
See Section F-F



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	212
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

•Mark	No. Req'd. Pier S20	No. Req'd. Pier S21	Size	Length	Shape
145 h1	18	-	#11	26-4	
145 h2	2	2	#5	28-6	
145 h3	15	-	#11	25-0	
145 h4	8	8	#5	25-0	
145 h5	-	12	#10	26-4	
145 h6	-	12	#10	25-0	
145 n1	68	-	#11	12-8	
145 n2	22	8	#6	7-9	
145 n3	-	68	#10	12-1	
145 s1	19	-	#4	8-6	
145 s2	38	-	#8	14-10	
145 s3	117	-	#4	17-6	
145 s4	-	38	#7	14-0	
145 s5	-	102	#4	15-11	
145 s6	-	19	#4	8-0	
145 t1	67	-	#11	18-8	
145 t2	-	50	#9	13-8	
145 u1	18	-	#5	11-10	
145 u2	-	12	#5	11-0	
145 v1	34	-	#11	33-2	
145 v2	34	-	#11	33-11	
145 v3	-	24	#10	47-6	
145 v4	-	24	#10	45-7	
145 w1	16	-	#7	33-4	
145 w2	4	-	#4	33-4	
145 w3	-	12	#6	33-0	
145 w4	-	3	#4	33-0	
•See Note "X"	Sh. No. 27				

Item	Unit	Total Pier S20	Total Pier S21
Class 'X' Concrete	C.Y.	201.4	150.6
Reinforcement Bars	Lbs.	39,420	20,500
Concrete Piles	L.F.	1,225	943
Test Pile (Concrete)	Ea.	1	1

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

PIERS S20 AND S21

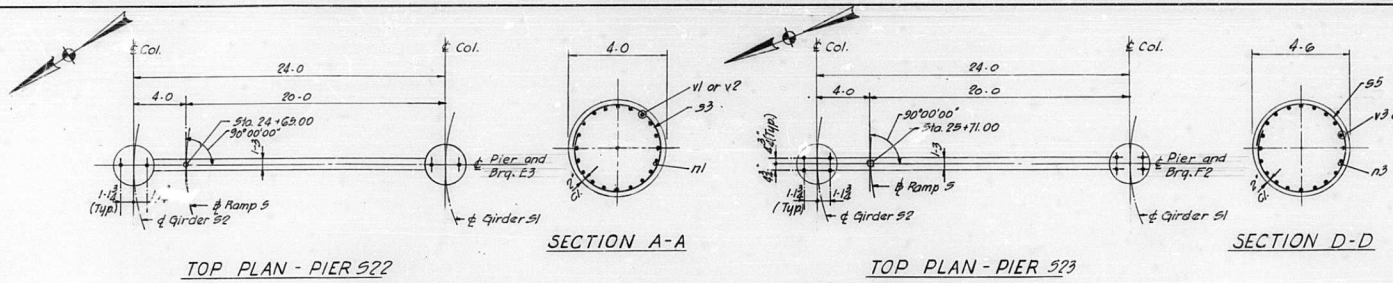
POPLAR STREET BRIDGE APPROACHES
RAMP "S"

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

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

SHEET 145 OF 163

DESIGNED BY E.W
DRAWN BY V.T.
CHECKED BY E.L.
APPROVED BY K.A.

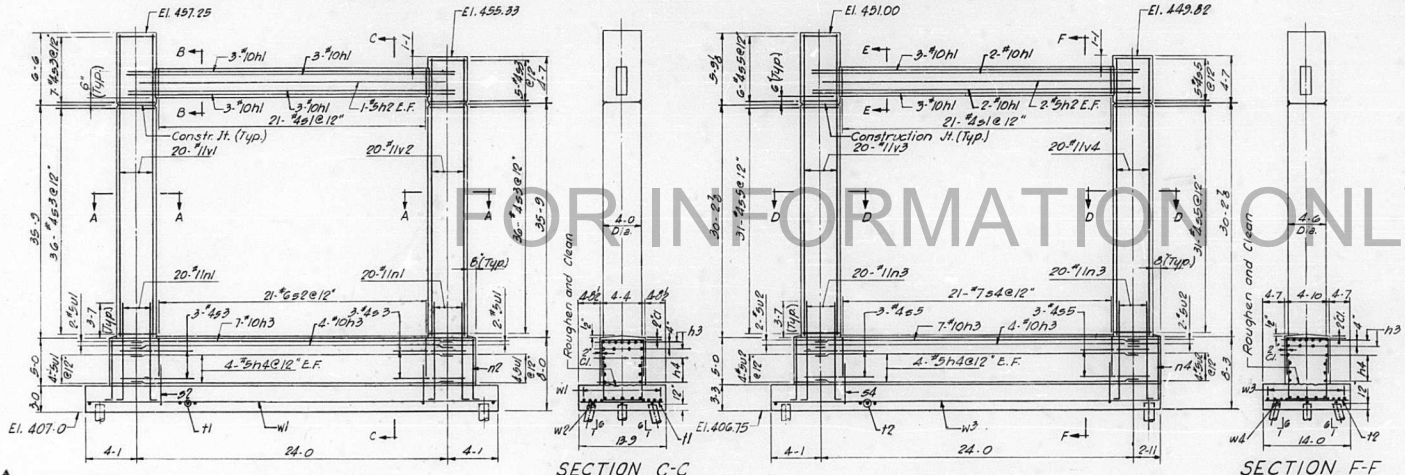


SECTION A-A

SECTION D-D

TOP PLAN - PIER S22

TOP PLAN - PIER S23



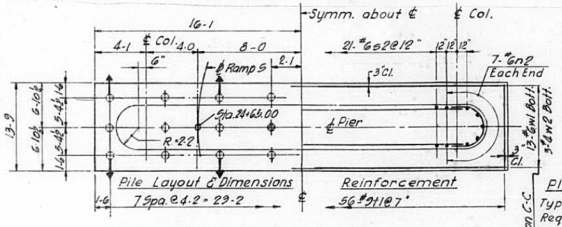
SECTION C-C

SECTION F-F

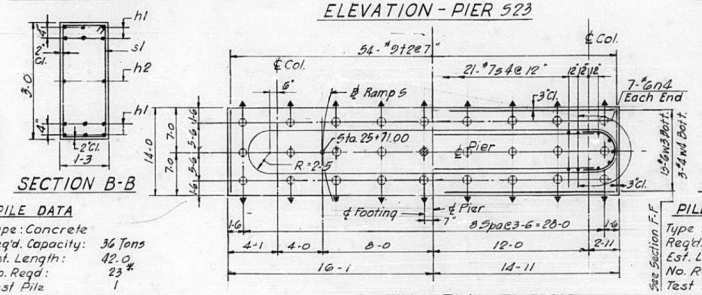
● - Indicates Battered Piles
⊙ - Indicates Test Pile

ELEVATION - PIER S22

ELEVATION - PIER S23



FOOTING PLAN - PIER S22



FOOTING PLAN - PIER S23

SECTION B-B

SECTION E-E

PILE DATA

Type: Concrete
Req'd. Capacity: 36 Tons
Est. Length: 42.0
No. Req'd: 23 *
Test Pile 1
* Does not include Test Pile.

See Section C-C

PILE DATA

Type: Concrete
Req'd. Capacity: 36 Tons
Est. Length: 46.0
No. Req'd.: 26 *
Test Pile: 1
* Does not include Test Pile.

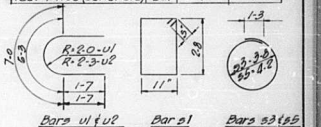
See Section F-F

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	213
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

•Mark	No. Reqd. Pier S22	No. Reqd. Pier S23	Size	Length	Shape
146h1	12	10	#10	26-4	——
146h2	2	2	#5	22-6	——
146 h3	11	11	#10	26-0	——
146h4	8	8	#5	26-0	——
146n1	40	-	#11	12-8	L
146n2	14	-	#6	7-9	L
146n3	-	40	#11	12-11	L
146n4	-	14	#6	8-0	L
146s1	21	21	#4	8-0	⊐
146s2	42	-	#6	12-8	⊓
146s3	90	-	#4	12-9	○
146s4	-	42	#7	13-10	⊓
146s5	-	79	#4	16-4	○
146t1	36	-	#9	13-5	——
146t2	-	54	#9	13-8	——
146u1	12	-	#5	9-5	⊂
146u2	-	12	#5	10-2	⊂
146v1	20	-	#11	42-0	——
146v2	20	-	#11	40-1	——
146v3	-	20	#11	35-9	——
146v4	-	20	#11	34-7	——
146w1	13	-	#6	31-10	——
146w2	3	-	#4	31-10	——
146w3	-	13	#6	30-8	——
146w4	-	3	#4	30-8	——
•See Note "X"	Sh. No.	27			

Item	Unit	Total Pier S22	Total Pier S23
Class 'X' Concrete	C.Y.	112.4	121.6
Reinforcement Bars	Lbs.	19,410	18,310
Concrete Piles	L.F.	966	1196
Test Piles (concrete)	Ea.	1	1



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

PIERS S22 AND S23

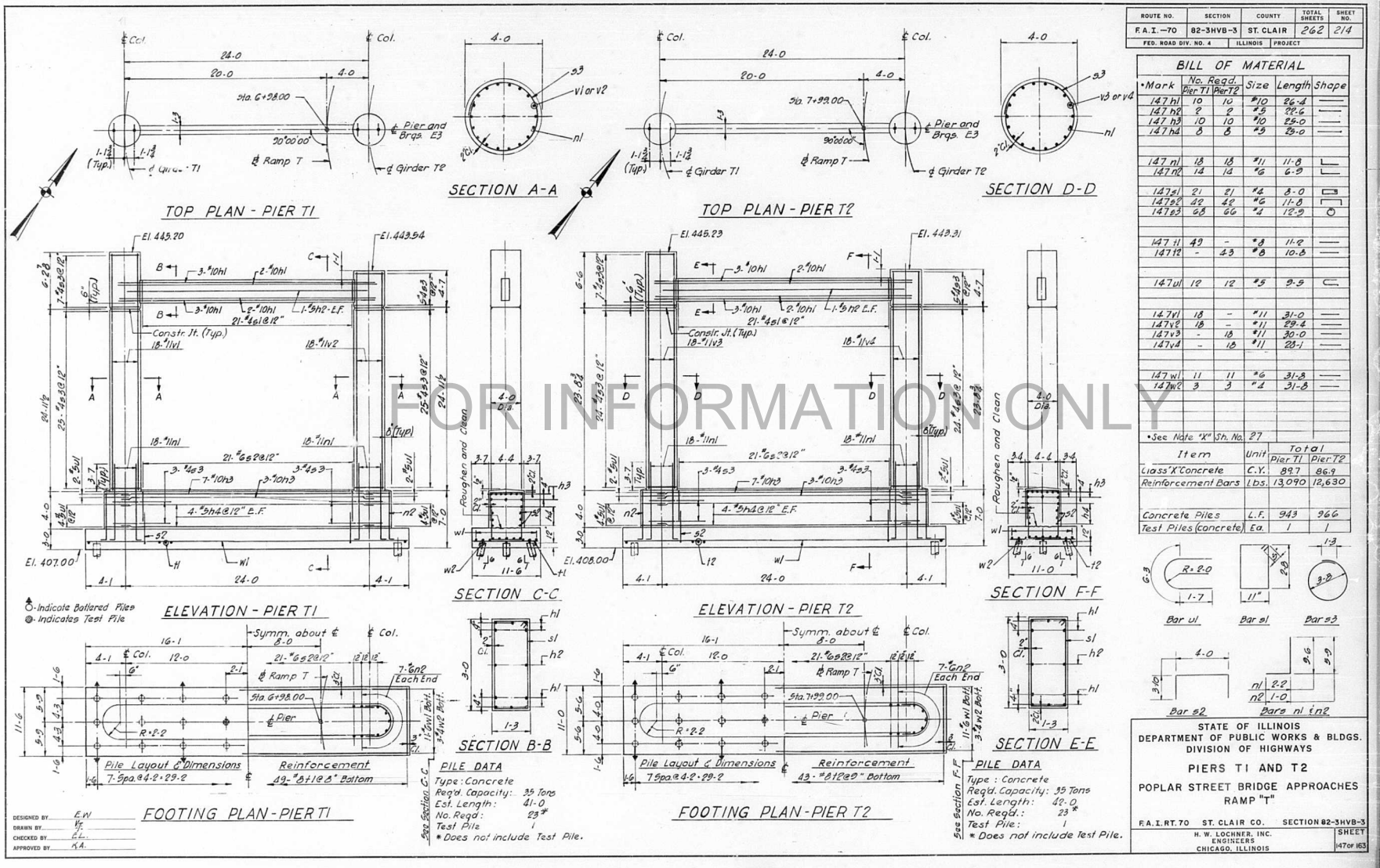
POPLAR STREET BRIDGE APPROACHES
RAMP "S"

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

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

SHEET 146 OF 163

DESIGNED BY E.W.
DRAWN BY V.K.
CHECKED BY E.L.
APPROVED BY K.A.



○-Indicate Battered Piles
◎-Indicates Test Pile

PILE DATA
Type: Concrete
Req'd. Capacity: 35 Tons
Est. Length: 41-0
No. Regd: 23*
Test Pile 1
* Does not include Test Pile.
See Section C-C

PILE DATA
Type: Concrete
Req'd. Capacity: 35 Tons
Est. Length: 42-0
No. Regd.: 23*
Test Pile: 1
* Does not include Test Pile.
See Section F-F

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82-3HVB-3	ST. CLAIR	262	214
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

•Mark	No. Reqd. Pier T1	No. Reqd. Pier T2	Size	Length	Shape
147h1	10	10	#10	26-4	
147h2	9	9	#8	99-6	
147h3	10	10	#10	25-0	
147h4	8	8	#3	25-0	
147n1	18	18	#11	11-8	
147n2	14	14	#6	6-9	
147s1	21	21	#4	8-0	
147s2	42	42	#6	11-8	
147s3	68	66	#4	12-9	
147u1	49	-	#8	11-8	
147u2	-	43	#8	10-8	
147v1	12	12	#5	9-5	
147v1	18	-	#11	31-0	
147v2	18	-	#11	29-4	
147v3	-	18	#11	30-0	
147v4	-	18	#11	28-1	
147w1	11	11	#6	31-8	
147w2	3	3	#4	31-8	

•See Note "X" Sh. No. 27

Item	Unit	Total Pier T1	Total Pier T2
Class 'X' Concrete	C.Y.	89.7	86.9
Reinforcement Bars	Lbs.	13,090	12,630
Concrete Piles	L.F.	943	966
Test Piles (concrete)	Ea.	1	1

DESIGNED BY E.W
DRAWN BY W.
CHECKED BY E.L.
APPROVED BY K.A.

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

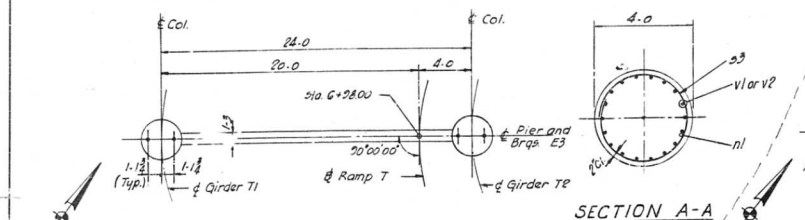
PIERS T1 AND T2

POPLAR STREET BRIDGE APPROACHES
RAMP "T"

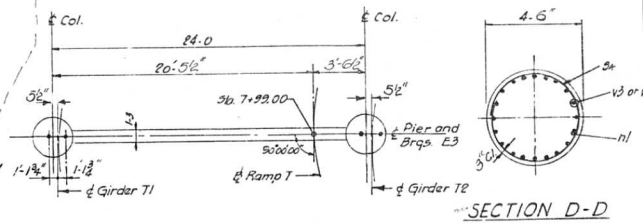
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-3

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

SHEET 147 OF 163

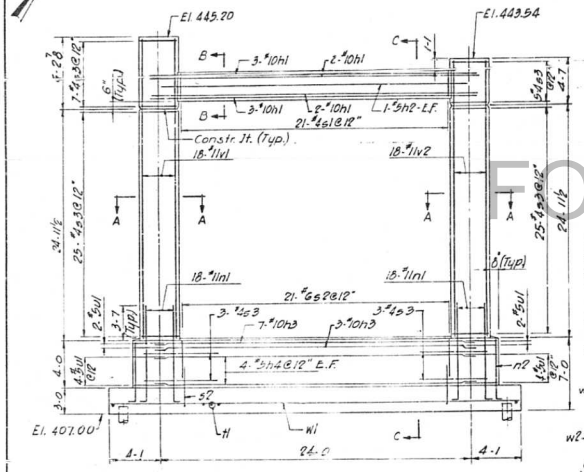


SECTION A-A

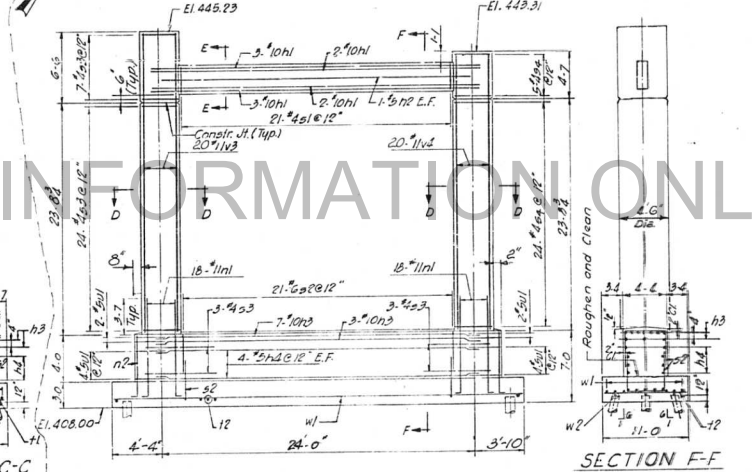


SECTION D-D

TOP PLAN - PIER T1



TOP PLAN - PIER T2

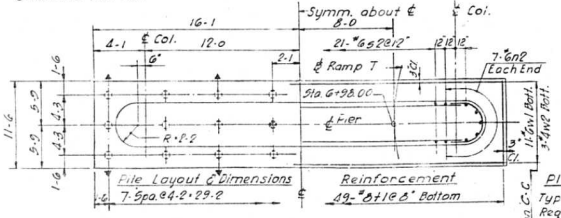


SECTION C-C

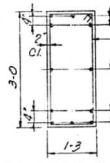
SECTION F-F

▲-Indicate Battered Piles
⊙-Indicates Test File

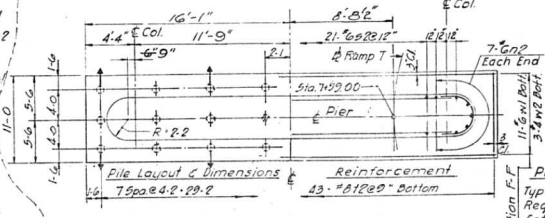
ELEVATION - PIER T1



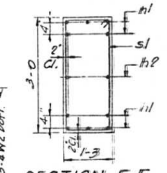
SECTION B-B



ELEVATION - PIER T2



SECTION E-E



FOOTING PLAN - PIER T1

PILE DATA
Type: Concrete
Reqd. Capacity: 35 Tons
Est. Length: 41-0
No. Reqd: 23*
Test Pile: 1
* Does not include Test Pile.

See Section C-C

FOOTING PLAN - PIER T2

(AS REVISED)

PILE DATA
Type: Concrete
Reqd. Capacity: 35 Tons
Est. Length: 42-0
No. Reqd.: 23*
Test Pile: 1
* Does not include Test Pile.

See Section F-F

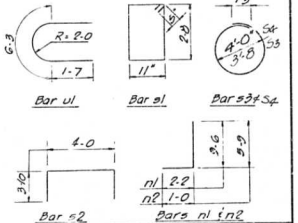
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	214
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

•Mark	No. Reqd. Pier T1	No. Reqd. Pier T2	Size	Length	Shape
147 h1	10	10	#10	26-4	—
147 h2	2	2	#5	22-6	—
147 h3	10	10	#10	25-0	—
147 h4	8	8	#5	25-0	—
147 n1	18	18	#11	11-8	L
147 n2	14	14	#6	6-9	L
147 s1	21	21	#4	8-0	□
147 s2	42	42	#6	11-8	□
147 s3	68	-	#4	12-9	○
147 s4	-	66	#4	13'-9"	○
147 s1	49	-	#8	11-2	—
147 t2	-	43	#8	10-8	—
147 u1	12	12	#5	3-5	⊂
147 v1	18	-	#11	31-0	—
147 v2	18	-	#11	29-4	—
147 v3	-	20	#11	30-0	—
147 v4	-	20	#11	28-1	—
147 w1	11	11	#6	31-8	—
147 w2	3	3	#4	31-8	—

•See Note 'X' Sh. No. 27

Item	Unit	Total Pier T1	Total Pier T2
Class 'X' Concrete	C.Y.	89.7	98.9
Reinforcement Bars	Lbs.	13,090	13290
Concrete Piles	L.F.	943	966
Test Piles (concrete)	Ea.	1	1



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

PIERS T1 AND T2

POPLAR STREET BRIDGE APPROACHES
RAMP "T"

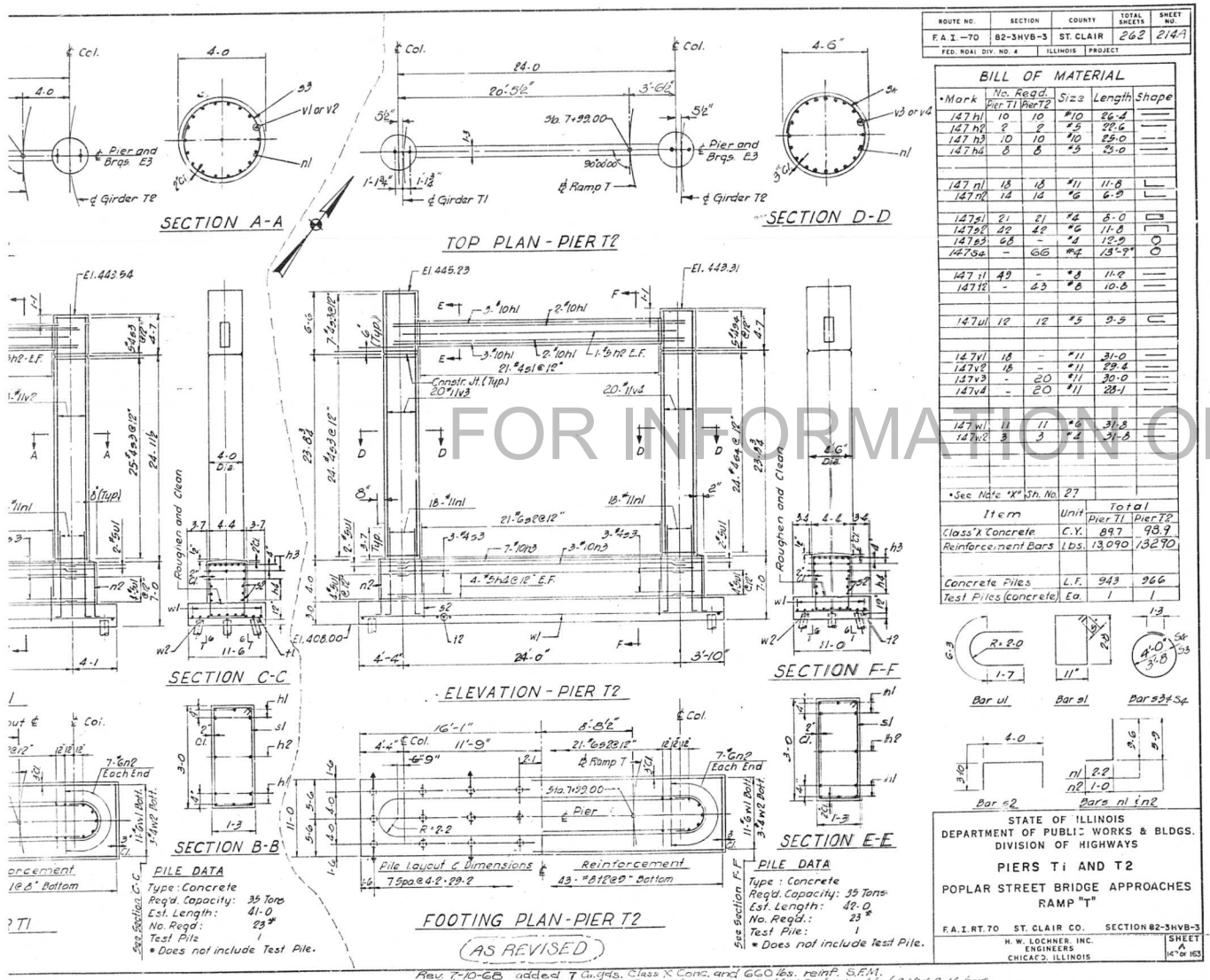
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-3

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

SHEET A 14 OF 163

DESIGNED BY E.W.
DRAWN BY V.T.
CHECKED BY L.L.
APPROVED BY K.A.

Rev. 7-10-68 added 7 Cu. yds. Class X Conc. and 660 lbs. reinf. S.F.M. Column Dia. from 4'-0" to 4'-6"; Removed 66 S3 bars & add 66 S4 bars; added 2-U4 & 2-U5 bars.



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82-3HVB-3	ST. CLAIR	262	214A
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

*Mark	No. Reqd. Pier T1	No. Reqd. Pier T2	Size	Length	Shape
147 h1	10	10	#10	26-4	
147 h2	8	8	#5	28.6	
147 h3	10	10	#10	25-0	
147 h4	8	8	#5	25-0	
147 n1	18	18	#11	11-8	
147 n2	14	14	#6	6-9	
147 s1	21	21	#4	5-0	
147 s2	42	42	#6	11-8	
147 s3	68	-	#4	12-9	
147 s4	-	66	#4	13'-9"	
147 v1	49	-	#8	11-8	
147 v2	-	43	#8	10-8	
147 u1	12	12	#5	9-5	
147 v1	18	-	#11	31-0	
147 v2	18	-	#11	29-4	
147 v3	-	20	#11	30-0	
147 v4	-	20	#11	28-1	
147 w1	11	11	#6	31-8	
147 w2	3	3	#4	31-8	

*See Note "X" Sh. No. 27

Item	Unit	Total Pier T1	Total Pier T2
Class 'X' Concrete	C.Y.	89.7	98.9
Reinforcement Bars	Lbs.	13,090	13270
Concrete Piles	L.F.	943	966
Test Piles (concrete)	Ea.	1	1

Bar u1 | Bar s1 | Bar s3 & s4 | Bar s2 | Bars n1 & n2

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

PIERS T1 AND T2

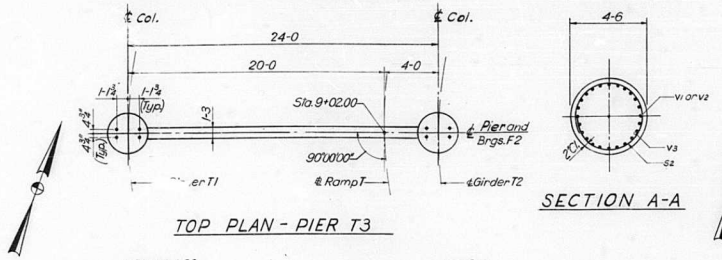
POPLAR STREET BRIDGE APPROACHES
RAMP "T"

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

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

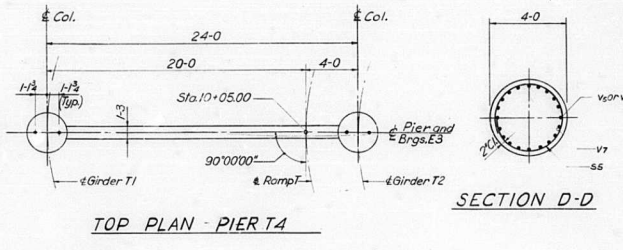
SHEET A 147 OF 163

Rev. 7-10-68 added 7 Cu.yds. Class X Conc. and 660 lbs. reinf. S.F.M. Column Dia. from 4'-0" to 4'-6"; Removed 66 s3 bars & add 66 s4 bars; added 2-u6 & 2-u6 bars.



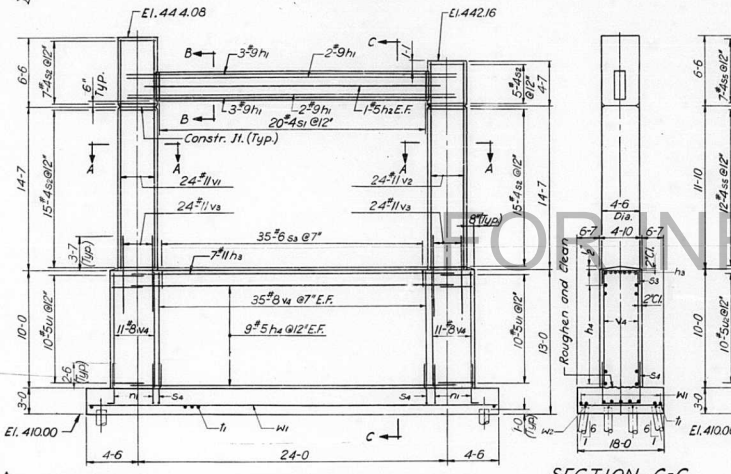
TOP PLAN - PIER T3

SECTION A-A



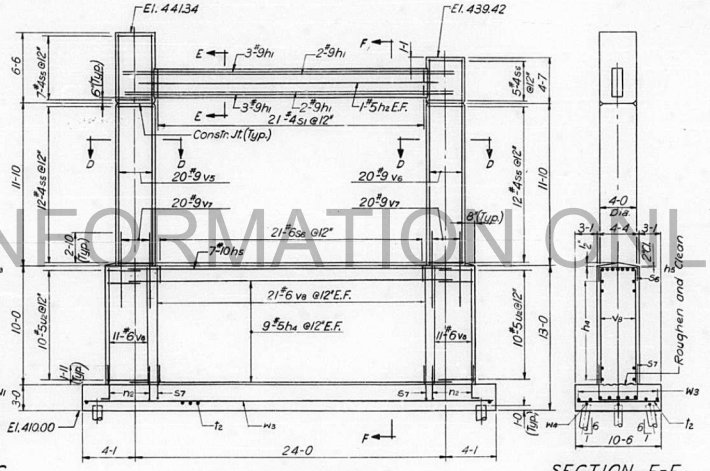
TOP PLAN - PIER T4

SECTION D-D



ELEVATION - PIER T3

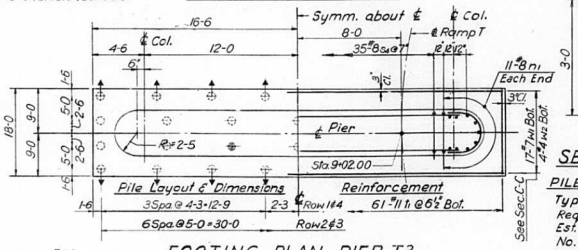
SECTION C-C



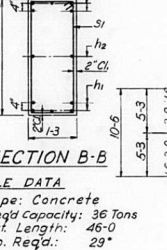
ELEVATION - PIER T4

SECTION F-F

▲ - Indicate Battered Pile
⊕ - Indicate Test Pile

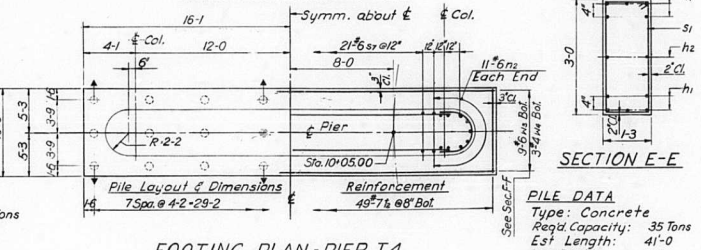


FOOTING PLAN - PIER T3



SECTION B-B

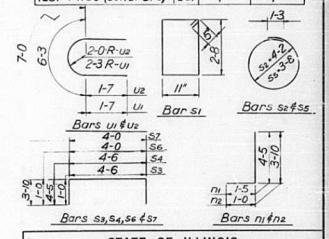
PILE DATA
Type: Concrete
Reqd Capacity: 36 Tons
Est. Length: 46-0
No. Reqd.: 29*
Test Pile: 1
*Does not include Test Pile.



FOOTING PLAN - PIER T4

SECTION E-E

PILE DATA
Type: Concrete
Reqd Capacity: 35 Tons
Est. Length: 41'-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-3	ST. CLAIR	262	215
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

* Mark	No. Reqd. Pier T3	No. Reqd. Pier T4	Size	Length	Shape
148 h1	10	10	#9	26-4	
148 h2	2	2	#5	22-6	
148 h3	7		#11	25-0	
148 h4	18	18	#5	25-0	
148 h5		7	#10	25-0	
148 n1	22		#8	5-10	
148 n2		22	#6	4-10	
148 S1	20	21	#4	8-0	
148 S2	42		#4	14-4	
148 S3	35		#5	6-6	
148 S4	35		#8	13-4	
148 S5		36	#4	12-9	
148 S6		21	#6	6-0	
148 S7		21	#6	11-8	
148 T1	61		#11	17-8	
148 T2		49	#7	10-2	
148 U1	20		#5	10-2	
148 U2		20	#5	9-3	
148 V1	24		#11	20-11	
148 V2	24		#11	19-0	
148 V3	48		#11	9-2	
148 V4	92		#8	9-10	
148 V5		20	#9	18-2	
148 V6		20	#9	16-3	
148 V7		40	#9	6-8	
148 V8		64	#6	9-10	
148 W1	17		#7	32-8	
148 W2	4		#4	32-8	
148 W3		9	#6	31-10	
148 W4		3	#4	31-10	

*See Note "X" Sh. No. 27

Item	Unit	Total Pier T3	Total Pier T4
Class "X" Concrete	C.Y.	143.1	101.3
Reinforcement Bars	Lbs.	21,780	9,670
Concrete Piles	L.F.	1334	943
Test Piles (Concrete)	Ea.	1	1

DESIGNED BY E.W.
DRAWN BY H.B.
CHECKED BY E.L.
APPROVED BY K.A.

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

PIERS T3 AND T4

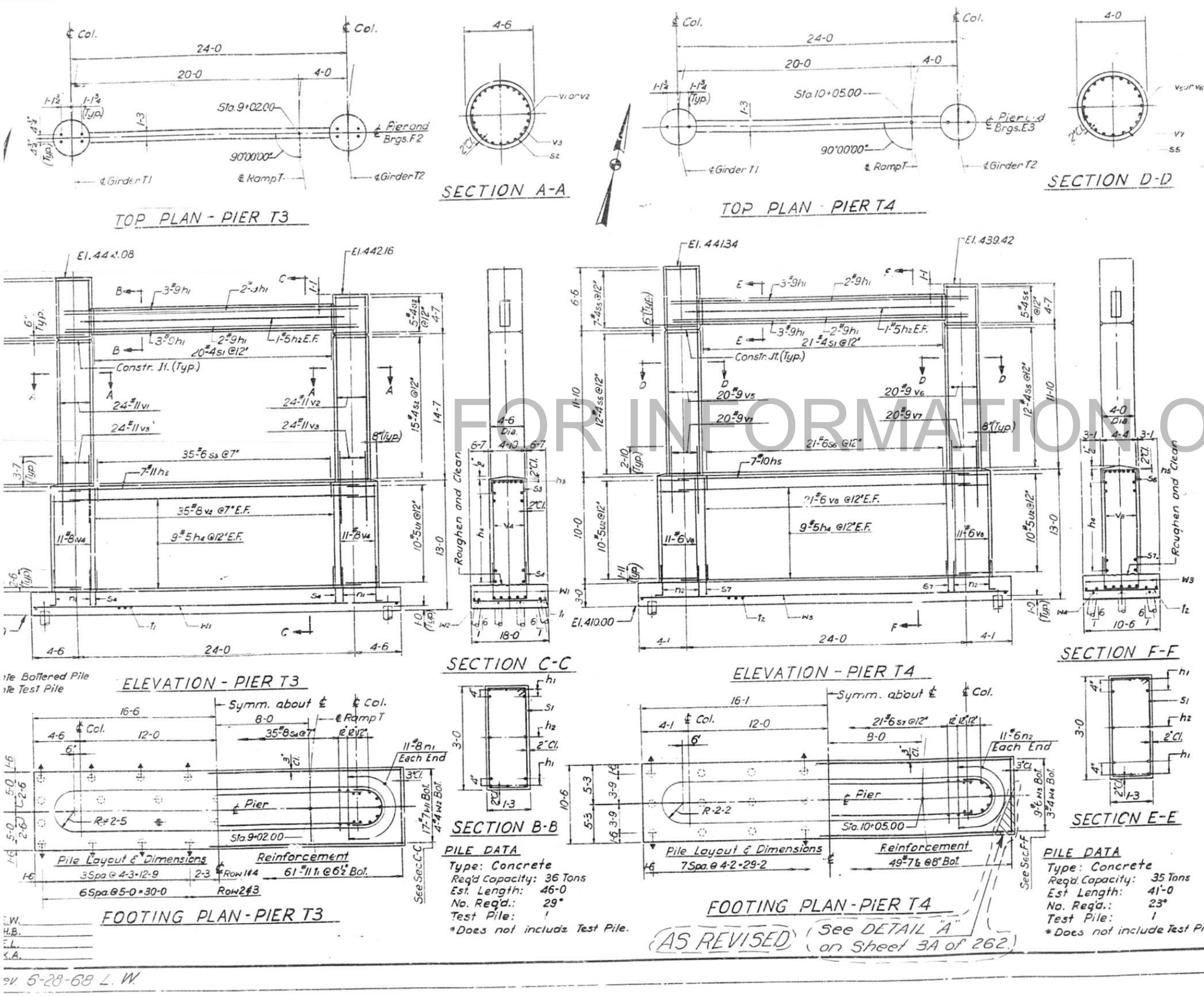
POPLAR STREET BRIDGE APPROACHES
RAMP "T"

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

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

SHEET 148 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	215A
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

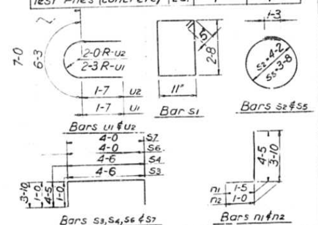


BILL OF MATERIAL

•Mark	No. Reqd. Pier T3	No. Reqd. Pier T4	Size	Length	Shape
148 h1	10	10	#9	26-4	
148 h2	2	2	#5	22-6	
148 h3	7		#11	25-0	
148 h4	18	18	#5	25-0	
148 h5		7	#10	25-0	
148 n1	22		#8	5-10	
148 n2		22	#6	4-10	
148 s1	20	21	#4	8-0	
148 s2	42		#4	14-4	
148 s3	35		#6	6-6	
148 s4	35		#8	13-4	
148 s5		36	#4	12-9	
148 s6		21	#6	6-0	
148 s7		21	#6	11-8	
148 t1	61		#11	17-8	
148 t2		49	#7	10-2	
148 u1	20		#5	10-2	
148 u2		20	#5	9-5	
148 v1	24		#11	20-11	
148 v2	24		#11	19-0	
148 v3	48		#11	9-2	
148 v4	92		#8	9-10	
148 v5		20	#9	18-2	
148 v6		20	#9	16-3	
148 v7		40	#9	6-8	
148 v8		64	#6	9-10	
148 w1	17		#7	32-8	
148 w2	4		#4	32-8	
148 w3		9	#6	31-10	
148 w4		3	#4	31-10	

•See Note "X" Sh. No. 27

Item	Unit	Total Pier T3	Total Pier T4
Class "X" Concrete	C.Y.	143.1	101.3
Reinforcement bars	Lbs.	21,780	9,670
Concrete Piles	L.F.	1334	943
Test Piles (Concrete)	Ea.	1	1



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

PIERS T3 AND T4

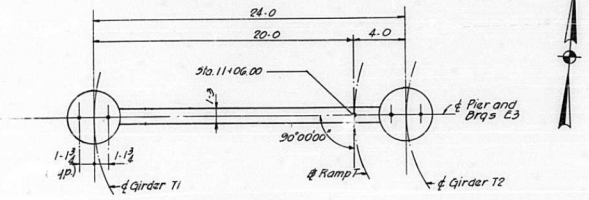
POPLAR STREET BRIDGE APPROACHES
RAMP "T"

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

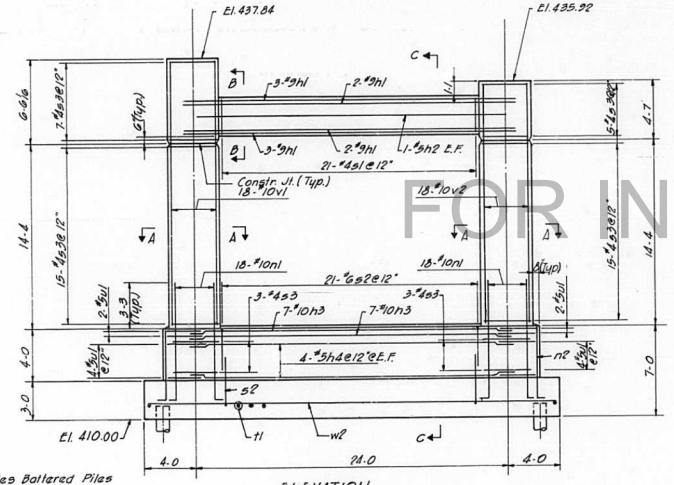
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 148A OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I. — 70	82-3HVB-3	ST. CLAIR	262	216
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

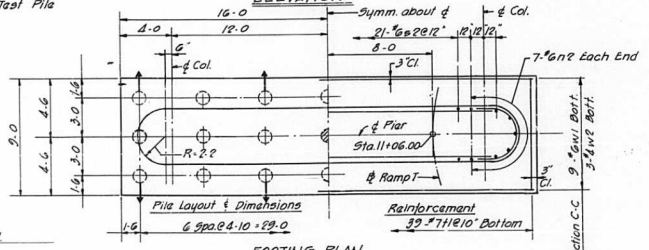


TOP PLAN

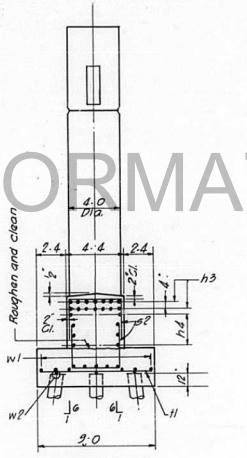


ELEVATION

△ Indicates Battered Piles
⊘ Indicates Test Pile



FOOTING PLAN

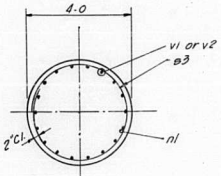


SECTION C-C

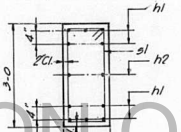
PILE DATA

Type: Concrete
Reqd. Capacity: 35 Tons
Est. Length: 41'-0
No. Reqd.: 20 *
Test Pile: 1

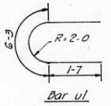
* Does not include Test Pile.



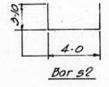
SECTION A-A



SECTION B-B

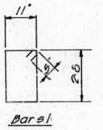


Bar u1

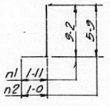


Bar s2

Bar e3



Bar s1



Bars n1 & n2

BILL OF MATERIAL				
* MARK	No REQD	SIZE	LENGTH	SHAPE
149 n1	10	#9	26-4	—
149 h2	2	#5	22-6	—
149 h3	14	#10	25-0	—
149 h4	8	#5	25-0	—
149 n1	36	#10	11-1	L
149 n2	14	#6	6-9	L
149 s1	21	#4	8-0	□
149 s2	42	#6	11-8	□
149 s3	48	#4	12-9	○
149 t1	39	#7	8-8	—
149 u1	12	#5	9-5	⊂
149 v1	18	#10	20-8	—
149 v2	18	#10	18-9	—
149 w1	9	#6	31-8	—
149 w2	3	#4	31-8	—

* See Note "X" Sheet No 27

ITEM	UNIT	TOTAL
Class X Concrete	Cu Yd.	70.9
Reinforcement Bars	Lbs.	10,130
Concrete Piles	Lin. Ft.	820
Test Piles (Concrete)	Ea.	1

DESIGNED BY E.W.
DRAWN BY U.T.
CHECKED BY E.L.
APPROVED BY K.A.

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

PIER T5

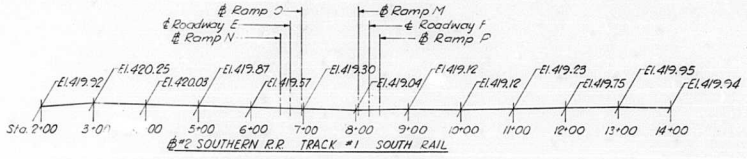
POPLAR STREET BRIDGE APPROACHES
RAMP "T"

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

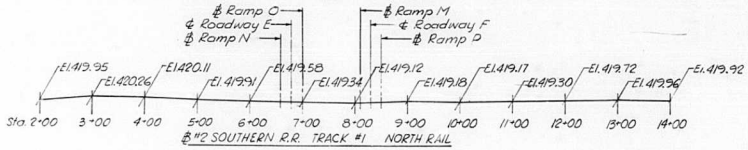
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET
149 OF 163

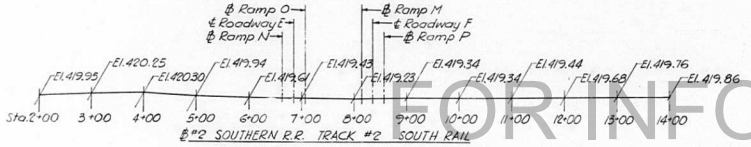
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. — 70	82-3HVB-3	ST. CLAIR	262	217
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



℄ #2 SOUTHERN R.R. TRACK #1 SOUTH RAIL



℄ #2 SOUTHERN R.R. TRACK #1 NORTH RAIL



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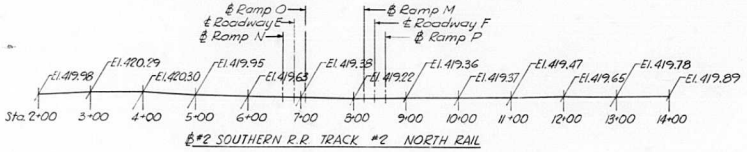

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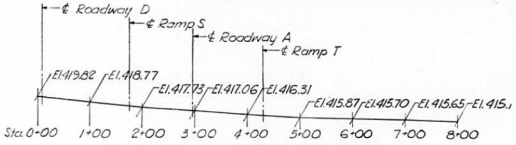
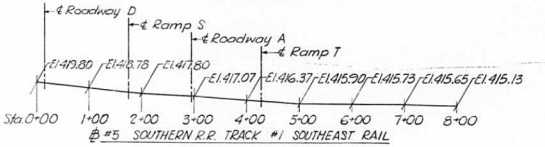
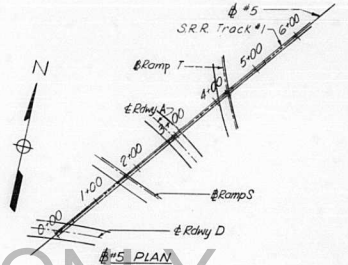


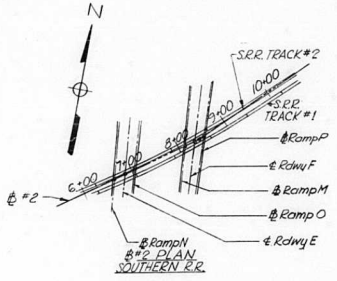
℄ #5 SOUTHERN R.R. TRACK #1 NORTHWEST RAIL



℄ #5 SOUTHERN R.R. TRACK #1 SOUTHEAST RAIL



℄ #5 PLAN SOUTHERN R.R.



℄ #2 PLAN SOUTHERN R.R.

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

SOUTHERN RAILROAD

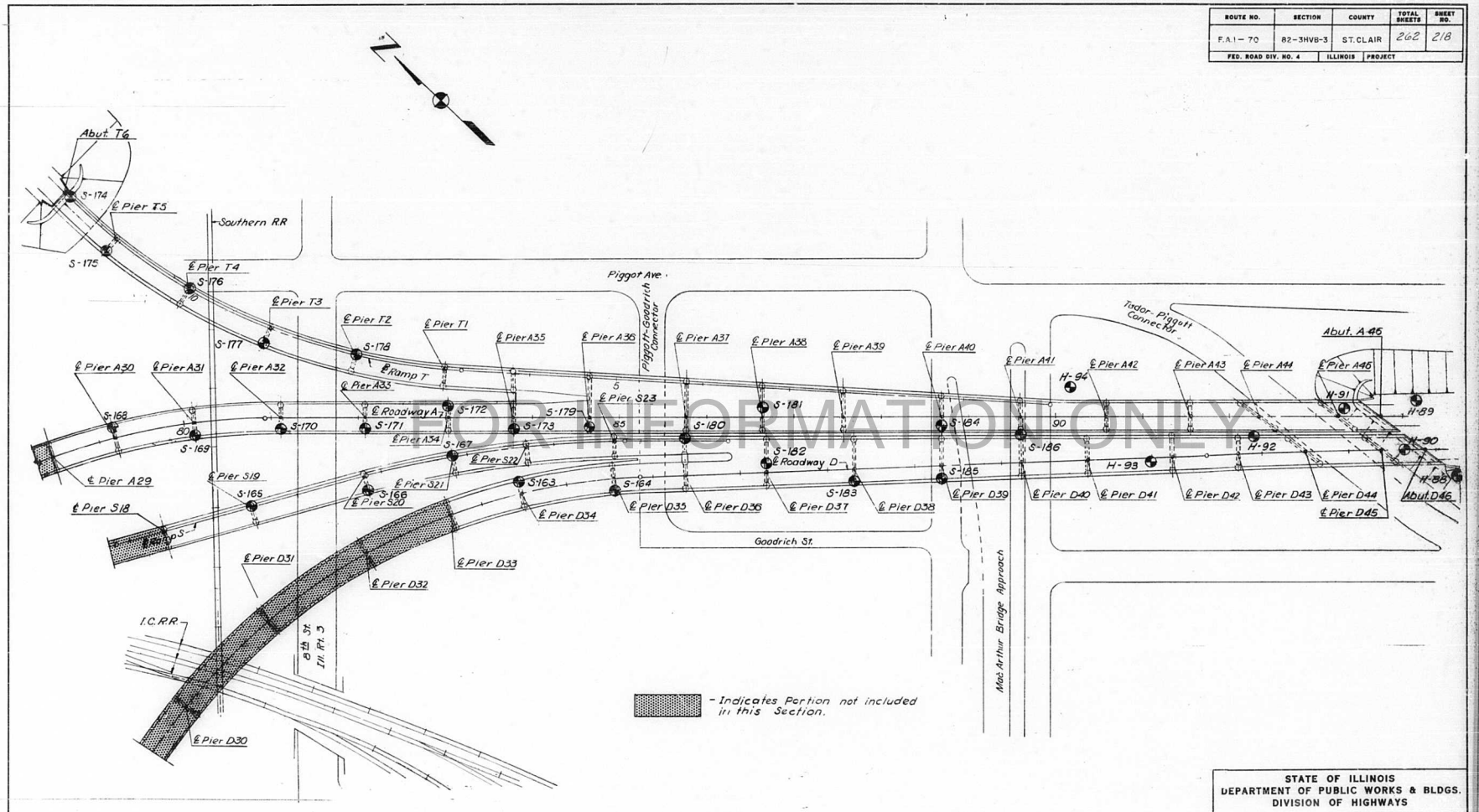
PROFILES

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

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

SHEET
150 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I – 70	82-3HVB-3	ST. CLAIR	262	218
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-3

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

SHEET 151 OF 163

DESIGNED BY ENR
DRAWN BY MR
CHECKED BY
APPROVED BY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.– 70	82-3HVB-3	ST. CLAIR	262	219
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

BORING No. S–163

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	413.1 0			
Topsoil, Cinders, and miscellaneous Fill	409.6	3		
Medium brown clayey silt, and very fine Sand.	400.1	5 6 7 10 7 8	1.5 1.5 2.0	24 27 24 27
Medium brown very fine Sand, some silt.	394.1	15 14 17		
Medium brown very fine Sand, trace silt.	382.1	20 18 12 25 20 30 10 16		
Medium gray very fine Sand, trace silt.	371.6	15 16 17 40 17		
Dense gray (continued)		29 45 58		

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
(continued)	47	38		
fine Sand, trace silt.	358.1	50 55 41		
Boring stopped by Inspector.	353.1	55 77		
WATER LEVEL 16.0 '				

BORING No. S–164

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	411.4 0			
Miscellaneous Fill	408.4	17		
Loose brown silty very fine Sand	403.4	5 7		
Soft brown silty Clay, some very fine sand.	390.4	10 7 8 15 8 20 7	1.3 1.2	30 34
Medium gray fine sand trace silt.	387.9	11		
Medium gray and brown fine Sand, trace silt.	382.9	21 13		
Medium loose gray fine Sand, some silt, trace organic matter.	376.4	30 19 8		33
Loose to medium gray very fine Sand and Silt	370.4	9 40		11
Dense to very (continued)		23 45		33

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
(continued)	47	45		
dense gray fine Sand, some silt and varied.	348.4	50 60 39 55 32 38 60 53 17		
Medium gray medium to coarse Sand, some silt.	341.4	65 16		
Medium gray very fine Sand, trace silt.	338.9	20 18 25		
Boring stopped by Inspector.				
WATER LEVEL 40.0				

BORING No. S–165

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	417.0 0			
Cinders, and topsoil Fill	413.5	2		
Soft brown Clay, some silt and trace fine sand.	406.0	5 6 10 8	1.5	27
Medium brown very fine Sand, some clay.	404.0	15		
Medium loose yellow & brown fine Sand, trace silt.	388.5	15 23 15 20 6 25 9 30 9		
Medium dense gray fine to medium Sand, some silt, trace gravel.	369.0	35 11 19 28 40 33 32 45 29		

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
(continued) silt.	47 369.0	39		
Medium gray medium to coarse Sand, some small gravel.	50 355.5	14 16 15 10 32		
Very dense gray fine Sand, trace silt.	351.0	113 43		
Very dense gray fine to med. Sand, some silt.	349.0	89		
Dense gray fine to coarse Sand	344.0	47		
Dense gray fine to medium Sand, trace silt.	337.0	75 40 44 53		
Boring stopped by inspector.				
WATER LEVEL 41.0				

N – STANDARD PENETRATION TEST NUMBER – BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 1'0" 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-3

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

SHEET 152 of 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.- 70	82-3HVB-3	ST. CLAIR	262	220
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-166

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	413.4 0			
Brown silty Clay topsoil	408.9			
Medium brown silt and very fine sand	406.9	12	1.0	30
Medium brown silty very fine Sand	403.4	5	9	
Medium brown		10	19	
and gray		15	13	
fine Sand, some silt.	386.9	20	12	
Medium gray fine Sand, some silt.	374.9	25	15	
		35	42	
Medium gray fine Sand, trace silt.	369.4	40	29	
Medium dense gray fine to coarse Sand, trace silt.	363.9	45	37	
		47	89	
Very dense gray fine Sand, some silt.	361.4			
Medium gray fine to coarse Sand, some small gravel and silt.	356.9	50	24	
			19	
		45	16	
Very dense gray fine Sand	352.9		82	
Boring stopped by Inspector.				
WATER LEVEL 36.0				

BORING No. S-167

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	412.1 0			
Topsoil, cinders Sand, Silt and Fill	410.1	5		
Brown Silt	408.1			
Soft to medium brown silty Clay	403.6	5	1.1	30
		10	1.5	28
Medium loose brown very fine Sand, with silt varied.	386.1	10	11	
			11	
		15	15	
			9	
		20	10	
			9	
		25	10	
Medium dense brown medium Sand, some silt.	380.1	30		
		30	16	
Loose to dense gray fine Sand, some silt & organic matter noted.	369.6	35	18	
			22	
			7	
		40	29	
			30	
Dense gray medium Sand, some (continued)		45	58	

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
(cont'd) silt.	365.1 47	54		
Dense gray fine Sand, some silt.	361.1 50	23		
Very loose to medium gray medium Sand, some Silt, trace organic matter.	55	2		
	356.1	18		
Medium gray coarse Sand, and medium gravel.	349.1 60	15		
		13		
Medium gray Silt, trace clay and very fine Sand.	65	8		
	339.1	13		
		32		
Dense to very dense gray, fine Sand, some Silt.	336.6 75	74		
Dense gray coarse Sand, some Silt.	334.1	43		
Dense		80	32	
gray			19	
coarse		85	31	
Sand			38	
and		90	36	
small			37	
gravel,		95	38	
trace			40	
silt.	312.1 100		65	
Boring stopped by Inspector.				
WATER LEVEL 36.0				

BORING No. S-168

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	413.4 0			
Cinders, Sand & Miscellaneous Fill	409.4	14		
Medium brown silty Clay	5	11	2.5	24
Medium brown silty very fine Sand.	405.4 10	25	1.5	24
	402.4	26		
Medium brown fine Sand, some silt.	15	12		20
	397.4	20		
Medium brown very fine Sand, trace silt.	393.4 20	11		10
Medium brown		12		
very fine Sand,		25	20	
trace silt,		30	24	
varied.	382.4		21	
Medium brown fine Sand, with silt varied.	377.4 35	13	26	
Dense gray and brown fine to medium Sand, trace (continued)	45	57	25	
		40	39	

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
(continued)	47			
silt.	365.4	19		
Dense gray medium to coarse Sand, trace silt & small gravel.	50	33		
	360.9	36		
Medium dense gray medium to coarse Sand, trace silt and small gravel.	55	21		
	348.4 65	19		
		42		
		47		
		61		
Boring stopped by Inspector.				
WATER LEVEL 16.0				

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-3

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

SHEET 153 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	221
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-169

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	415.8 0			
Topsoil, cinders, and miscellaneous Fill	407.8 8	7 8 4		
Medium brown very fine Sand & silt, trace clay	404.8 11	16		
Medium yellow and gray fine Sand, some silt	392.3 23	30 16 27 11 15		
Medium brown very fine Sand, trace silt.	389.8 25	11		
Medium yellow and brown fine to medium Sand, and Silt	379.3 35	36 23 27 27		
Dense gray fine (continued)	40 45	18 34 49 31		
(continued)	47	58		
Sand	50	41		
and Silt	55	33 21		
Loose gray medium to coarse Sand, trace silt.	358.3	15		
Boring stopped by Inspector.				
WATER LEVEL 38.0				

BORING No. S-170

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	414.4 0			
Topsoil, cinders, and miscellaneous Fill	406.9 5 8	4 34		
Medium brown very fine silty Sand.	403.4 10	19		
Medium yellow and brown fine Sand, trace silt,	379.9 30	33 15 17 16 20 12 15 10 19 16 16		
Medium loose gray very fine silty Sand	371.9 40	35 17 10 12		
Dense gray (continued)	45	57 62		
(continued)	47	72		
medium Sand, some silt	50 55	90 42 53 27		
silt trace clay.	60 351.9	53 57		
Boring stopped by Inspector.				
WATER LEVEL 34.0				

BORING No. S-171

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	411.5 0	10		
Topsoil, silty & cinder Fill	410.7 1			
Loose brown very fine Sand and silty, trace clay	5 405.5 8	10	4.5	21
Soft brown sandy Silty Clay	402.5 5	5	?	34
Loose to medium yellow and brown fine Sand, trace silt	380.5 10 15 20 30	11 5 11 7 9 20 10		
Medium gray very fine Sand some silt.	375.5 35	16 16		
Very loose gray very fine Sand, some silt.	372.5	4		
Medium gray fine Sand, some silt.	368.5 40	13 11		
Very dense gray fine to medium Sand, little silt	365.5 45	64		
Medium gray fine to medium Sand, some silt.	47 50 75 333.5	25 28 28 30 27		
Soft gray Silt, some clay and very fine Sand	347.5 60	8 16		
Soft to medium gray silty fine Sand, trace clay.	342.5 65	20 27		
Dense gray fine to medium Sand, some silt.	333.5 70 80	42 51 26 27		
Very dense gray medium to coarse Sand, small to large gravel, trace clay.	326.5 90	104 29 101		
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# 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-3

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

SHEET 154 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.- 70	82-3HVB-3	ST. CLAIR	262	222
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-172

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	412.3 0			
Topsoil, cinders and miscellaneous Fill	409.8	16		
Medium brown silt & very fine Sand, trace clay.	401.8 10	7		
Medium brown clayey Silt & very fine Sand.	394.8 15	15	1.5	27
Medium yellow & brown fine Sand, some silt.	387.3 25	27		
Medium yellow & brown fine to medium Sand, some silt.	378.3 30	27		
Medium gray fine silty Sand	374.3 35	16		
Gray silt	373.3			
Medium gray very fine Sand, some silt seams	371.3 40	17		
Dense gray fine (continued)	45	59		

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
(continued) to medium Sand, some silt.	47	58		
	50	35		
	359.8	39		
Boring stopped by Inspector.				
WATER LEVEL 16.0				

BORING No. S-173

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	411.9 0			
Topsoil, cinders, clay and miscellaneous Fill	408.4	3		
Soft brown Silt and very fine Sand, trace clay.	399.9 5	3	1.0	30
		4	1.0	30
	10	3	1.0	34
Soft brown clayey Silt, trace very fine sand.	15	5	1.0	30
	393.4	6		
Dense yellow and brown fine Sand, trace silt.	20	12		
		34		
	25	41		
	383.4	27		
Medium brown, fine Sand; some silt.	30	15		
	380.9	19		
Medium gray fine to coarse Sand, and silt.	35	14		
	40	12		
	368.4	24		
Dense gray (continued)	45	34		

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
(continued) fine Sand, some silt.	47	50		
	50	68		
		88		
	55	40		
	355.9			
Dense gray coarse Sand, some silt with trace small gravel.	60	31		
	350.4			
Soft gray Silt, some very fine sand, trace clay.	65	5		
		9		
	70	8		
	338.4	9		
Medium gray very fine silty Sand	75	22		
	335.9			
Very dense gray fine Sand, with small gravel.	333.9	20		
Dense gray fine to coarse Sand and small gravel.	80	19		
		26		
	85	35		
		52		
	90	45		
	320.9			
Dense gray fine to coarse Sand, trace silt & small gravel.	95	91		
	313.4	52		
Very dense gray coarse Sand, and small gravel.	311.9 100	122		
Boring stopped by inspector.				
WATER LEVEL 35.0				

BORING No. S-174

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	414.7 0			
Very loose brown clayey Silt, some cinders	412.2	2		
Soft brown silty Clay, trace fine sand.	5	3		
	407.7	2	.4	34
Medium brown silty Clay, trace fine Sand.	10	7	.75	26
	15	9	1.0	34
	397.7			
Medium brown fine Sand, trace silty, varied.	20	16		
	392.9			
Medium loose brown very fine silty Sand, varied.	25	12		
	387.5	9		
Medium dense gray very fine Sand, little silt, trace organic matter, noticed varied	30	11		
	382.7	32		
Medium gray very fine Sand, little silt, trace organic matter.	380.0 35	10		
Medium gray fine Sand, trace silt and organic matter.	40	17		
	372.2	11		
Dense gray fine to medium Sand	45	27		
	367.7 47	31		
Dense gray fine to medium Sand, trace small gravel.	50	21		
	362.7	34		
Med. gray fine to coarse Sand, trace small gravel and silt, organic matter noted.	360.2	24		

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
	55	39		
Dense gray fine Sand, trace silt.	354.7 60	26		
Medium dense gray fine to coarse Sand, trace silt and small gravel; organic matter noted.	65	22		
	345.0 70	23		
Medium gray fine to medium Sand and gravel, trace silt.	339.7 75	21		
Dense gray medium Sand, trace small gravel and silt.	80	29		
	334.2	22		
Medium dense gray fine to coarse Sand, some small gravel, trace silt.	85	25		
	329.2 90	18		
	95	36		
	319.2	44		
Boring stopped by Inspector.		35		
WATER LEVEL 31.0.		39		
		40		

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-3

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

SHEET
155 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-3	ST. CLAIR	262	223
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No.S-175

IDENTIFICATION	ELEV.	DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	414.8	0			
Cinders, sand, silt, brick, and miscellaneous Fill	408.8	5	12 20		
Loose brown silty Clay trace fine sand.	406.8		6	.8	30
Medium brown silty Clay, trace fine sand.	403.8	10	9	1.1	24
Medium very fine Sand, little silt.	401.8		11		
Medium brown silty very fine Sand, varied.	398.8	15	16		
Medium brown very fine Sand, little silt.	396.8		16		
Medium brown silty very fine Sand, trace organic matter varied.	388.8	20 25	13 14 15		
Medium gray fine Sand, trace silt.	378.8	30 35	15 18 36 16		
Medium gray Silt and very fine Sand	371.8	40	11 12 29		30
Very dense gray very fine Sand, trace silt	368.8	45	60		
Dense gray fine to coarse Sand, tr. sm. grvl.& silt, org.mat	366.8	47	30		
Dense gray fine Sand.	363.8	50	45		
Medium dense gray fine to medium Sand, trace silt.	359.3	55	26 40		
Dense gray fine to coarse Sand, trace small gravel and silt.	356.8		31		
Dense gray fine to medium Sand, trace silt.	353.8	60	37		
Medium gray fine Sand.	351.8		29		
Dense gray fine to medium Sand	348.8	65	33		
Dense gray fine to coarse Sand, trace (continued) small gravel and silt.	342.3	70 71	42 54 48		
Boring stopped by Inspector.					

BORING No.S-176

IDENTIFICATION	ELEV.	DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	414.8	0			
Cinders, topsoil, gravel and miscellaneous Fill	411.8		16		
Medium soft brown silty Clay	406.8	5	10 5	1.7 .8e	29 36
Stiff brown Clay, some silt	401.8	10	15 13	2.5e	27
Medium yellow and brown fine to very fine Sand, little silt.	390.3	15 20	25 20 13 10		
Medium dense gray fine Sand, some silt, (continued) trace organic matter.	355.8	25 30 35 40 45 47 50 55	23 11 15 39 26 21 2 16 31 40 43 46 13 44		
Dense gray fine to medium Sand, some silt and small gravel.	341.8	60 65 70	81 50 33 27 31 39		
Dense gray fine to medium Sand, little silt.	333.8	75 80	33 48 48		
Dense gray coarse Sand, with small to medium gravel.	327.3	85	87 31 18		
Boring stopped by Inspector.					
WATER LEVEL 36.0					

BORING No.S-177

IDENTIFICATION	ELEV.	DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	413.9	0			
Topsoil and cinders Fill	410.4		5		
Soft brown Clay, some silt and very fine sand.	407.9	5	4	.5e	30
Soft brown silty clay, some very fine Sand.	397.9	10 15	2 4 5 7	.3e .7e .9	36 34 32
Medium brown fine Sand, some silt.	386.9	20 25	7 18 22 16		
Medium gray fine Sand, some silt.	377.9	30 35	18 17 24 17		
Loose gray silty fine Sand	374.9		5		
Dense to very dense gray fine (continued) to medium Sand, some silt, trace organic matter.	354.9	40 45 47 50 55	25 31 56 31 59 61 36 29		
Dense gray fine to medium Sand, some silt, trace organic matter.	347.4	60 65	28 42 31		
Very dense fine Sand, some silt.	345.4		73		
Medium gray coarse Sand and small gravel, some silt.	343.9	70	16		
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# 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-3

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

SHEET 156 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.- 70	82-3HVB-3	ST. CLAIR	262	224
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No.S-178

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	413.0 0			
Black topsoil	411.7			
Brown silt & very fine Sand, trace Cinders Fill		12		
	2			
Soft brown clayey Silt, trace very fine sand.	5	5	0.5	30
		12	1.5	27
	10	5		
		7	1.5	27
	15	8		
	397.0			
Medium dense gray very fine Sand, trace silt.	20	16		
		13		
		18		
	25	35		
	386.9			
Medium gray fine Sand, and Silt, varied	30	18		
		24		
	35	22		
		8		
	40	25		
	371.5			
Dense gray		45		
	45	41		

IDENTIFICATION (CONTINUED)	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
fine	47	109		
Sand, some silt.	50	48		
		69		
	55	47		
	356.5			
Dense to very dense gray fine to medium Sand, some silt.		47		
	353.0	60		62
Boring stopped by Inspector.				
WATER LEVEL 16.0				

BORING No.S-179

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	411.6 0			
Topsoil		11		
and cinders Fill	5	12		
	403.6	6		
Loose brown very fine Sand and silt Clay	10	9		27
	398.6	7		
Medium brown very fine Sand, and Silt	15	11		
	393.1	12		
Very soft gray silty very fine Sand	20	4		
	390.6			
Loose gray fine Sand, and silty Clay	25	3		
	385.6	6		
Medium gray very fine Sand and Silt, some organic matter noted.	30	11		
	375.6	17		
Medium dense gray very fine (continued)	40	13		
		17		
	45	25		
		21		

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
	47	37		
Sand and Silt some organic matter noted.	50	63		
		45		
	55	41		
		24		
	60	31		
	348.6	29		
Soft gray clayey Silt and very fine Sand	65	8		
	341.6	9		
Medium gray silt and very fine Sand	70	14		
	335.6	18		
Medium gray medium to coarse Sand, little silt and small gravel.	80	166		
	328.1	18		
Gray dense coarse Sand, and small gravel.	85	23		
		72		
	90	43		
	318.6	26		
Dense gray medium to coarse Sand, and small gravel.	95	35		
		45		
	100	57		
	311.6	121		
Boring stopped by Inspector.				
WATER LEVEL 36.0				

BORING No.S-180

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	411.8 0			
Top soil	411.1			
Soft gray and brown Silt and very fine Sand	408.3	3		
Soft brown silty Clay, trace very fine sand.	5	6	1.0+	24
	400.8	10	1.5	27
Loose gray & brown very fine silty Sand.	397.3	6		
Soft gray and brown silty clay, trace very fine sand.	15	6		
	394.8			
Medium gray and brown fine Sand, some silt.	25	13		
	381.8	30		
Medium gray very fine Sand, and silt.	35	15		
	373.3	16		
Medium dense gray fine Sand,	45	45		
		37		
		30		

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
	47	25		
Sand some silt.	50	27		
	360.8			
Medium dense gray fine to coarse Sand,	55	20		
		16		
	60	23		
		22		
	65	34		
		18		
	70	32		
Sand	340.3	21		
Dense gray fine to coarse Sand, some silt and small to medium gravel.	75	31		
	335.8	36		
Dense wet gray fine to coarse Sand and fine to medium gravel, some rock fragments.	329.3	53		
	80	32		
Boring stopped by Inspector.		67		
	85			
WATER LEVEL 37.0				

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-3

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

SHEET 157 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.– 70	2-3HVB-3	ST. CLAIR	262	225
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No.S-181

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	412.5 0			
topsoil, cinders, and miscellaneous Fill	409.5	28		
Medium brown silty Clay, trace very fine sand.		5	4	.9	32
		9	1.6	25
		10	8	1.4	28
	400.0	8		
Loose brown very fine Sand and Silt, trace clay.	397.0	15	11		
Medium brown fine Sand, trace silt.	381.5	16	13		
		20	13		
		25	14		
			16		
		30	23		
Soft gray Silt and very fine Sand	379.5		13		
Medium dense gray fine Sand, trace silt.	369.5	35	23		
			68		
		40	57		
			83		
Medium dense gray		42	28		

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
(continued) fine to medium Sand, trace silt.	359.5	47	19	
		50	13	
Very dense gray fine Sand, trace silt.	355.0	50	43	
		50	86	
Boring stopped by Inspector.		50	117	
		60		

WATER LEVEL 32.0

BORING No.S-182

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	412.8 0			
top soil	411.8			
Very loose brown silt fill	409.8	3		
Medium brown Clay and Silt, trace fine sand.	404.8	5	7	1.2	26
		18	3.5e	22
Medium brown clayey Silt, trace very fine Sand	398.8	10	9	1.2	24
		8	1.2e	26
Dense to medium gray fine Sand, some silt.	374.8	15	30		
		20	31		
		25	23		
		30	20		
		35	24		
Dense gray fine to medium Sand, (continued)		40	54		
		45	33		

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
(continued) some silt.	362.8	47	38	
		50	62	
Boring stopped by Inspector.				

WATER LEVEL 16.0

BORING No.S-183

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	412.1 0			
Cinders and Br. clayey Silt	411.1			
Very loose brown silty fine Sand	407.4	2		
		9		
Loose brown clayey Silt, trace fine sand.	405.0	5		
		9	1.5	24
Stiff brown and gray clayey Silt, trace fine sand.	400.1	10	15	2.5	27
Stiff grey & brown silty Clay, trace fine sand.	398.1	9	1.5e	21
Medium brown fine Sand, trace silt, organic matter noted, varied.	386.1	15	29		
		25	14		
			10		
		30	13		
Medium yellow & brown fine Sand trace silt.	375.1	35	21		
			17		
		40	15		
Gray fine Sand, & Silt, tr. clay.	372.6		9		
Medium brown fine Sand, trace silt, organic matter noted.	370.1	40	22		
			24		
Very loose gray fine Sand, trace medium gravel decayed		45	17		
			13		

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
(continued) wood seams.	364.1	47	3		
Medium gray fine to coarse Sand, trace small gravel and silt.	360.1	50	19		
Loose grey fine to med. Sand, tr. sml. to med. gravel, tr. silt, org.mat noted.	358.1		9		
Medium gray fine to medium Sand, trace small gravel and silt.	352.7	55	27		
			54		
		60	43		
Dense gray medium to coarse Sand, trace silt, black org.matter noted.	350.6				
Dense to medium gray medium to coarse Sand, trace small gravel and silt.	345.1	65	33		
			15		
			49		
Dense gray medium to coarse Sand, trace small to medium gravel and silt.	330.6	70	24		
			41		
		75	32		
			102		
		80	35		
Very dense gray medium Sand, trace small gravel and silt.	327.1 ±s		76		
			53		
Boring stopped by Inspector.					

WATER LEVEL 36.5

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-3

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

SHEET 158 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.– 70	82-3HVB-3	ST. CLAIR	262	226
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No.S-184

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	412.0 0			
Brick Pavement	411.7			
Sand, crushed rock and brick fragment Fill	409.0	5		
Medium stiff gray silty Clay, trace fine sand.	400.0	5 8 6 8	2.0 2.0	24 24
Medium brown very fine Sand and Silt, varved.	389.0	11 10 12 13 4		
Dense to medium gray fine Sand, trace silt.	376.0	25 35 30 30 27 35		
Medium gray coarse Sand, trace small to large gravel, and silt.	368.5	12 40 16		
Very dense gray (continued)		45	55	

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
(continued) fine Sand, trace silt.	361.0	47 74 50	70	
Medium dense gray fine to coarse Sand, trace silt and small gravel.	345.0	55 60 65	29 31 25	
Very dense gray fine Sand, trace silt.	339.5	70	73	
Boring stopped by Inspector.		75		
WATER LEVEL 36.0				

BORING No.S-185

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	411.7 0			
Major Pavement	411.4			
Crushed Rock and miscellaneous Fill	408.7	5		
Medium gray silty Clay, trace fine sand.	399.7	5 6 10	.7 1.0 .8e	27 24 24
Medium brown fine Sand, trace silt.	390.2	10 6 13 20	12	
Medium dense gray fine Sand, trace silt; organic matter noted, varved.	375.7	12 25 32 30 37 15	26 33 27	
Very dense gray fine Sand, trace (continued)		31 40 72 45	62 62	

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
(continued) silt.	362.7	47 76		
Medium gray fine to coarse Sand, tr.sml. gravel and silt, org.matter noted.	360.7	50	23	
Very dense gray fine Sand, trace silt.	359.2	56		
Boring stopped by Inspector.		55		
WATER LEVEL 36.0				

BORING No.S-186

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Ground Surface	411.4 0			
Topsoil & Fill	410.6			
Loose gray and brown Clay, some silt	400.4	4 5 7 10	1.0 1.5	24 30
Medium yellow and brown very fine silty Sand	395.4	12 15		
Medium brown fine Sand & Silt	390.4	10 20		
Medium gray Silt and very fine Sand	388.4	10		
Medium gray very fine Sand, some silt.	384.9	25		
Medium yellow and brown very fine sandy Silt	383.4	11		
Medium gray very fine Sand, trace silt.	375.4	30 28 30	34	
Medium gray fine to medium Sand, and small gravel, trace silt.	372.4	28		
Medium gray medium to coarse Sand and small gravel, trace silt.	370.4	40	20	
Dense gray medium to coarse Sand, some silt.	365.4	45	49	

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T/S.F.	W %
Dense gray fine Sand, trace silt.	354.9	47 50 55	70 38 29 32	
Dense gray fine to medium Sand, trace silt.	351.4	60	41 56	
Boring stopped by Inspector.				
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
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-3

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

SHEET 159 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. – 70	82-3HVB-3	ST. CLAIR	262	227
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

BORING No. H-88

	Elevation	N	Qu t/s.f.	w (%)
Ground Surface	410.1	0		
Light Brown Alluvial Very Fine Sandy SILT	405.1	-5		
Dump-Loose	404.3	-6	NC	--
	402.8			
Dump-Loose	401.8	-7	NC	-
	400.3	-10		
Moist-Very Loose	399.3	-3	NC	-
Light Brown Alluvial Fine SAND	397.8			
Dump-Medium	396.8	-14	NC	-
	395.3	-15		
Dump-Medium	394.3	-14	NC	-
	392.8			
Dump-Medium	391.8	-14	NC	-
	390.3	-20		
Dump-Medium	389.3	-20	NC	-
	387.8			
Dump-Medium	386.8	-17	NC	--
	385.3	-25		
Dump-Medium	384.3	-10	NC	--
	382.8			
Dump-Medium	381.8	-12	NC	--
H_2O_V	380.3	-30		
Wet-Loose	379.3	-7	NC	--
	377.8			
Wet-Medium	376.8	-22	NC	--
	375.3	-35		
Wet-Dense	374.3	-44	NC	-
	372.8			
Wet-Dense	371.8	-29	NC	-
	370.3	-40		
Wet-Dense	369.3	-29	NC	-
	367.8			
Wet-Dense	366.8	-44	NC	-
		-45		

	Elevation	N	Qu t/s.f.	w (%)
Gray Alluvial Fine SAND				
	365.2	-45		
Wet-Medium	364.3	-19	NC	-
	362.8			
Wet-Medium	361.8	-22	NC	-
	360.3	-50		
Wet-Dense	359.3	-41	NC	-
	357.8			
Wet-Very Dense	356.8	-92	NC	-
	355.3	-55		
Wet-Dense	354.3	-39	NC	-
	352.8			
Wet-Dense	351.8	-42	NC	-
	350.3	-60		
Wet-Dense	349.3	-37	NC	-
	347.8			
Wet-Dense	346.8	-52	NC	-
	345.3	-65		
Wet-Medium	344.3	-21	NC	-
Gray Alluvial Medium to Coarse SAND				
	342.8			
Wet-Medium	341.8	-25	NC	-
	340.3	-70		
Gray Alluvial Fine SAND				
Wet-Dense	339.3	-43	NC	-
	339.0			
END OF BORING				

BORING No. H-89

	Elevation	N	Qu t/s.f.	w (%)
Ground Surface	411.7	0		
Light Brown Alluvial Clayey SILT	406.7	-5		
Moist-Stiff	405.7	4	1.4S	26
Light Brown Alluvial SILT	404.2			
Moist-Stiff	403.2	5	1.1S	30
	402.7			
Light Brown Alluvial Sandy SILT	401.7	-10		
Wet-Loose	400.7	3	NC	-
	398.2			
Dump-Medium	398.2	13	NC	-
	396.7	-15		
Dump-Medium	395.7	15	NC	-
Light Brown Alluvial Fine SAND	394.2			
Dump-Medium	393.2	11	NC	-
	391.7	-20		
Dump-Medium	390.7	19	NC	-
	389.2			
Dump-Medium	388.2	26	NC	-
	386.7	-25		
Dump-Medium	385.7	22	NC	-
	384.2			
Dump-Medium	383.2	29	NC	-
	381.7	-30		
Dump-Medium	380.7	14	NC	-
	379.2			
Moist-Medium	378.2	21	NC	-
H_2O_V	376.7	-35		
Wet-Medium	375.7	22	NC	-
	374.2			
Wet-Medium	373.2	24	NC	-
	372.2			
	371.7	-40		
Wet-Dense	370.7	36	NC	-
Gray Alluvial Fine SAND	369.2			
Wet-Very Dense	368.2	90	NC	-
		-45		

	Elevation	N	Qu t/s.f.	w (%)
	366.7	-45		
Wet-Medium	365.7	14	NC	-
	364.2			
Wet-Dense	363.2	37	NC	-
Gray Alluvial Fine SAND	361.7	-50		
Wet-Very Dense	360.7	70	NC	-
	359.2			
Wet-Very Dense	358.2	107	NC	-
	356.7	-55		
Wet-Very Dense	355.7	107	NC	-
	354.2			
Wet-Dense	353.2	37	NC	-
	351.7	-60		
Wet-Very Dense	350.7	72	NC	-
	346.7	-65		
Wet-Medium	345.7	21	NC	-
	341.7	-70		
Wet-Medium	340.7	18	NC	-
	340.6			
END OF BORING				

BORING No. H-90

	Elevation	N	Qu t/s.f.	w (%)
Ground Surface	411.5	0		
Fill Material Cinders & SILT	406.8	-5		
Dump-Loose	405.8	2	NC	-
Brown Alluvial CLAY	404.3			
Moist-Stiff	403.3	5	0.9S	35
	402.3			
Brown Alluvial Sandy CLAY	401.8	-10		
Moist-Loose	400.8	9	NC	-
	399.8			
Brown Alluvial Sandy SILT	399.3			
Moist-Loose	398.3	5	NC	-
Light Brown Alluvial Very Fine SAND	396.8	-15		
Dump-Loose	395.8	8	NC	-
	394.3			
Dump-Medium	393.3	11	NC	-
	391.8	-20		
Dump-Medium	390.8	26	NC	-
	389.3			
Dump-Dense	388.3	48	NC	-
	386.8	-25		
Dump	385.8	15	NC	-
	384.3			
Dump-Dense	383.3	32	NC	-
	381.8	-30		
Dump-Medium	380.8	27	NC	-
	379.3			
Moist-Medium	378.3	22	NC	-
H_2O_V	376.8	-35		
Wet-Medium	375.8	23	NC	-
	374.3			
Wet-Dense	373.3	32	NC	-
	371.8	-40		
Wet-Medium	370.8	20	NC	-
Gray Alluvial Fine SAND	369.3			
Wet-Dense	368.3	46	NC	-
	366.8	-45		

	Elevation	N	Qu t/s.f.	w (%)
	366.8	-45		
Wet-Dense	365.8	48	NC	-
	364.3			
Wet-Dense	363.3	48	NC	-
	361.8	-50		
Wet-Dense	360.8	25	NC	-
	359.3			
Wet-Dense	358.3	34	NC	-
	356.8	-55		
Wet-Dense	355.8	26	NC	-
	354.3			
Wet-Dense	353.3	44	NC	-
	351.8	-60		
Wet-Dense	350.8	28	NC	-
Gray Alluvial Medium SAND	349.3			
Wet-Dense	348.3	57	NC	-
	346.8	-65		
Wet-Dense	345.8	33	NC	-
	344.3			
Wet-Dense	343.3	22	NC	-
Gray Alluvial Fine SAND	341.8			
	341.8	-70		
Wet-Dense	340.8	21	NC	-
END OF BORING				

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
NC – NonCohesive
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-3

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

SHEET 160 or 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. -70	82-3HVB-3	ST. CLAIR	262	228
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. H-91

	Elevation	N	Qu t/s.f.	w (%)
Ground Surface 411.6	0			
Light ...uvial Sandy SILT				
	407.0			
	-5			
Moist-Loose	406.0	4	NC	28
Light Brown Alluvial CLAY	404.5			
Moist-Stiff	403.5	4	1.25S	33
Light Brown Alluvial Silty CLAY	402.0			
	-10			
Moist-Medium	401.0	4	0.60S	29
	400.0			
	399.5			
Damp-Loose	398.5	7	NC	-
Light Brown Alluvial Fine SAND	397.0			
	-15			
Damp-Medium	396.0	12	NC	-
	394.5			
Damp-Medium	393.5	13	NC	-
	392.0			
	-20			
Damp-Dense	391.0	42	NC	-
	389.5			
Damp-Dense	388.5	41	NC	-
	387.0			
	-25			
Damp-Dense	386.0	36	NC	-
	384.5			
Damp-Medium	383.5	21	NC	-
	382.0			
	-30			
Damp-Medium	381.0	21	NC	-
	379.5			
Moist-Medium	378.5	26	NC	-
H_2O	377.0			
	-25			
Wet-Medium	376.0	15	NC	-
	374.5			
Wet-Medium	373.5	23	NC	-
	372.0			
	-40			
Wet-Dense	371.0	34	NC	-
	370.0			
Gray Alluvial Fine SAND	369.5			
Wet-Very Dense	368.5	105	NC	-
	367.0			
	-45			
	367.0			
Wet-Dense	366.0	46	NC	-
	364.5			
Wet-Dense	363.5	41	NC	-
Gray Alluvial Fine SAND	362.0			
	-50			
Wet-Medium	361.0	27	NC	-
	359.5			
Wet-Dense	358.5	33	NC	-
	357.0			
	-55			
Wet-Dense	356.0	50	NC	-
	354.5			
Wet-Very Dense	353.5	56	NC	-
	352.0			
	-60			
Wet-Medium	351.0	23	NC	-
	349.5			
Wet-Dense	348.5	33	NC	-
	347.0			
	-65			
Wet Dense	346.0	48	NC	-
	344.5			
Wet-Medium	343.5	17	NC	-
	342.0			
	-70			
Wet-Dense	341.0	35	NC	-
END OF BORING				

BORING No. H-92

	Elevation	N	Qu t/s.f.	w (%)
Ground Surface	412.1	0		
Fill Cinders, Etc.				
	408.5			
Light Brown Alluvial Silty CLAY	407.5			
	-5			
Lost Sample	406.5	5	0.81E	-
	405.5			
Light Brown Alluvial Sandy SILT	405.0			
Moist-Loose	404.0	5	NC	-
	402.5			
	-10			
Moist-Stiff	401.5	7	0.92E	37
Light Brown Alluvial CLAY	400.0			
Moist-Medium	399.0	5	0.81S	31
	397.9			
Light Brown Alluvial Wet SILT	397.5			
	-15			
Wet-Soft	396.5	5	0.26S	37
	395.5			
Light Brown Alluvial Wet Sandy SILT	395.0			
Wet-Medium	394.0	6	0.33S	35
	393.4			
Gray Alluvial Sandy SILT	392.5			
	-20			
Wet-Loose	391.5	4	NC	-
	390.0			
Wet-Soft	389.0	3	0.23E	40
Gray Alluvial Silty CLAY	387.5			
	-25			
Wet-Soft	386.5	5	0.33E	40
Gray Alluvial CLAY	385.5			
	385.0			
Damp-Medium	384.0	12	NC	-
Gray Alluvial Fine SAND	382.5			
	-30			
Damp-Medium	381.5	10	NC	-
H_2O	380.0			
Wet-Medium	379.0	3	0.33E	36
	377.5			
	-35			
Wet-Medium	376.5	23	NC	-
	372.5			
	-40			
Wet-Very Dense	371.5	53	NC	-
	375.5			
	-45			
	367.5			
Wet-Medium	366.5	21	NC	-
Light Brown Alluvial Fine SAND				
	362.5			
	-50			
Wet-Dense	361.5	40	NC	-
	357.5			
	-55			
Wet-Medium	356.5	20	NC	-
Gray Alluvial Fine SAND with bits of wood				
	352.5			
	-60			
Wet-Medium	351.5	20	NC	-
	348.5			
	347.5			
	-65			
Wet-Medium	346.5	24	NC	-
Gray Alluvial Medium to Coarse SAND				
	342.5			
	-70			
Wet-Medium	341.5	12	NC	0
END OF BORING				

BORING No. H-93

	Elevation	N	Qu t/s.f.	w (%)
Ground Surface	410.2	0		
Brown Alluvial CLAY				
	405.2	-5		
Moist-Stiff	404.2	9	1.17S	32
	403.2			
Light Brown Alluvial Sandy SILT	402.7			
Moist-Loose	401.7	5	NC	-
	401.2			
	400.7	-10		
Damp-Loose	399.2	5	NC	-
Light Brown Alluvial Silty Fine SAND	397.7			
Damp-Loose	396.7	8	NC	-
	395.2	-15		
Damp-Loose	394.2	6	NC	-
Light Brown Alluvial Fine SAND	392.7			
Damp-Loose	391.7	12	NC	-
	390.2	-20		
Wet-Loose	389.2	10	NC	-
	387.7			
Damp-Loose	386.7	16	NC	-
Light Brown Alluvial Fine SAND	385.2	-25		
Damp-Medium	384.2	15	NC	-
	382.7			
Damp-Dense	381.7	34	NC	-
	380.2	-30		
Moist-Dense	379.2	30	NC	-
H_2O	377.7			
Wet-Medium	376.7	21	NC	-
	375.2	-35		
Wet-Medium	374.2	28	NC	-
	372.7			
Wet-Dense	371.7	36	NC	-
	370.2	-40		
Wet-Dense	369.2	35	NC	-
	368.2			
Gray Alluvial Fine SAND	367.7			
Wet-Medium	366.7	16	NC	-
	-45			
	365.4	-45		
Wet-Medium	364.2	22	NC	-
Gray Alluvial Fine SAND	362.7			
Wet-Medium	361.7	16	NC	-
	360.2	-50		
Wet-Medium	359.2	26	NC	-
	357.7			
Wet-Medium	356.7	21	NC	-
	355.2	-55		
Wet-Dense	354.2	33	NC	-1
	352.7			
Wet-Very Dense	351.7	57	NC	-
	350.2	-60		
Wet-Dense	349.2	35	NC	-
	347.7			
Wet-Medium	346.7	26	NC	-
Gray Alluvial Fine SAND	345.2	-65		
Wet-Very Dense	344.2	80	NC	-
	342.7			
Wet-Medium	341.7	45	NC	-
	340.2	-70		
Wet-Medium	339.2	26	NC	-
END OF BORING				

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 NC - Noncohesive

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-3

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

SHEET 161 OF 163

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.- 70	82-3HVB-3	ST. CLAIR	262	229
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. H-94

	Elevation	N	Qu t/s.f.	w (%)
Ground Surface	412.4	0		
Fill Cinders, Etc	407.9			
	407.4	-5		
Damp-Loose	406.4	4	NC	-
Light Brown Alluvial Very Fine Silty SAND	404.9			
Damp-Loose	403.9	4	NC	-
	402.9			
	402.4	-10		
Damp-Hard	401.9	5	1.148	34
Light Brown Alluvial CLAY	399.9			
Damp-Hard	398.9	6	0.688	35
	397.9			
	397.4	-15		
Damp-Stiff	396.4	5	0.528	30
Brown Sandy SILT mottled with Gray & Rust, Alluvial	394.9			
Wet-Loose	393.9	4	0.168	33
	390.9			
Dark Gray Alluvial SILT	392.4	-20		
Damp-Hard	391.4	5	0.208	56
Gray Alluvial Fine SAND	389.9			
Damp-Loose	388.9	11	NC	-
Dark Gray Alluvial Clayey SILT	387.4	-25		
Damp-Stiff	386.4	3	0.338	34
	385.4			
Gray Alluvial Fine SAND	384.9			
Damp-Loose	383.9	16	NC	-
	382.4	-30		
Damp-Medium	381.4	20	NC	-
	379.9			
Moist-Dense	378.9	30	NC	-
H_2O				
	377.4	-35		
Wet-Medium	376.4	21	NC	-
	374.9			
Wet-Medium	373.9	18	NC	-
	372.4	-40		
Wet-Dense	371.4	29	NC	-
	369.9			
Wet-Dense	368.9	34	NC	-
		-45		
	367.4	-45		
Wet-Medium	366.4	16	NC	-
	364.9			
Wet-Dense	363.9	34	NC	-
Gray Alluvial Fine SAND				
	362.4	-50		
Wet-Dense	361.4	456	NC	-
	359.9			
Wet-Medium	358.9	21	NC	-
	357.4	-55		
Wet-Dense	356.4	36	NC	-
	354.9			
Wet-Dense	353.9	46	NC	-
	352.4	-60		
Wet-Dense	351.4	32	NC	-
	349.9			
Wet-Medium	348.9	24	NC	-
	347.4	-65		
Wet-Dense	346.4	37	NC	-
	346.4			
	344.9			
Wet-Dense	343.9	29	NC	-
Black Alluvial Fine SAND with lots of Lignite	342.4	-70		
Wet-Medium	341.4	18	NC	-
END OF BORING				

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 NC - Noncohesive

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

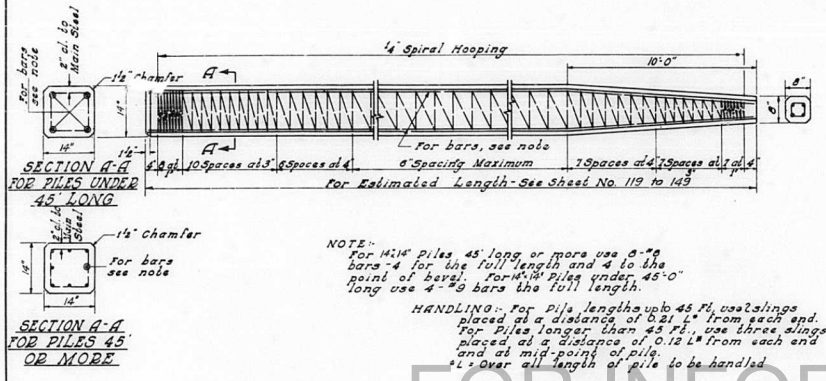
BORING LOGS

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

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

SHEET 162 OF 163

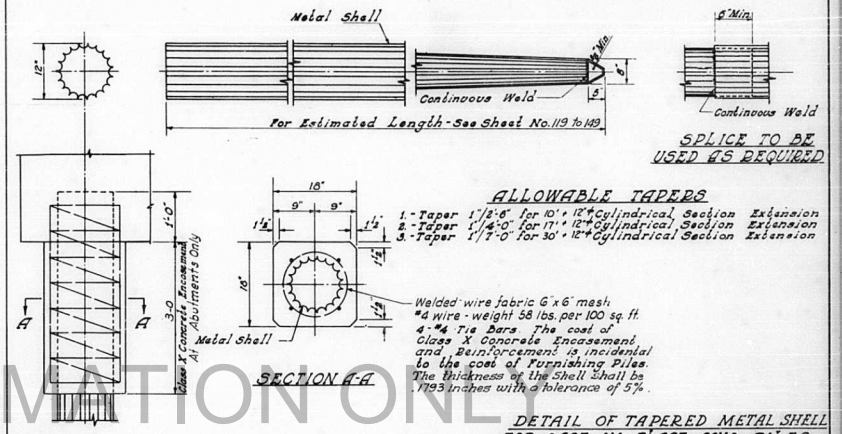
FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I – 70	82-3HVB-3	ST. CLAIR	262	230
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



NOTE:- For 14"x14" Piles 45' long or more use 6 - #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

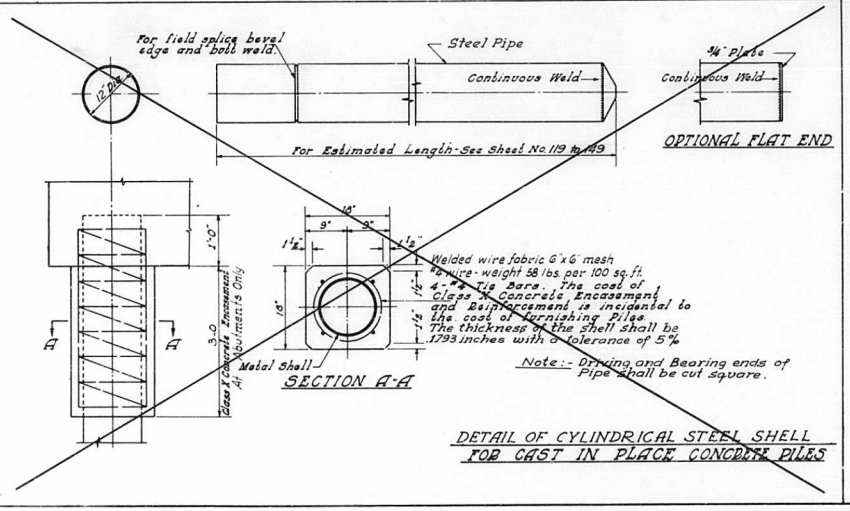
DETAIL OF PRECAST CONCRETE PILES



ALLOWABLE TAPERS

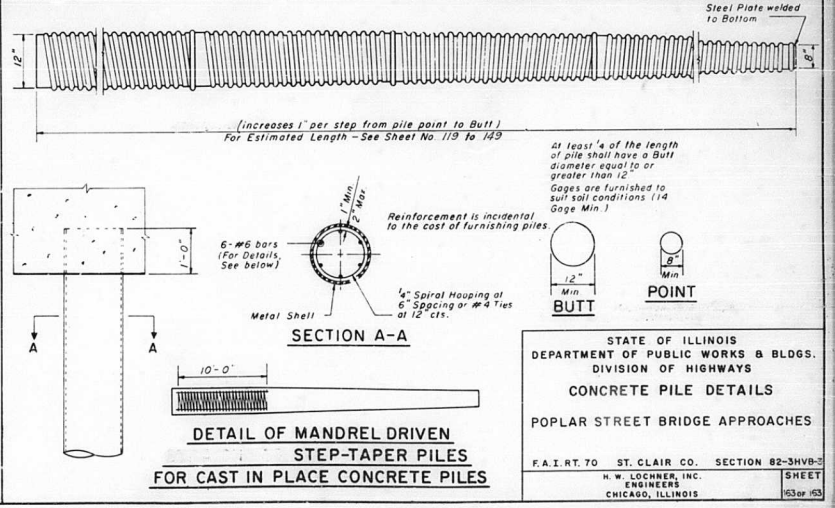
1 - Taper 1"/2'-8" for 10' + 12" Cylindrical Section Extension
2 - Taper 1"/4'-10" for 17' + 12" Cylindrical Section Extension
3 - Taper 1"/7'-0" for 30' + 12" Cylindrical Section Extension

DETAIL OF TAPERED METAL SHELL FOR CAST IN PLACE CONC. PILES.



Note:- Driving and Bearing ends of Pipe shall be cut square.

DETAIL OF CYLINDRICAL STEEL SHELL FOR CAST IN PLACE CONCRETE PILES



DETAIL OF MANDREL DRIVEN 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

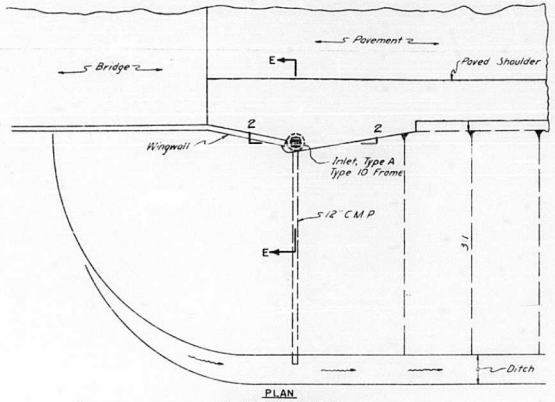
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-3

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

SHEET 163 OF 163

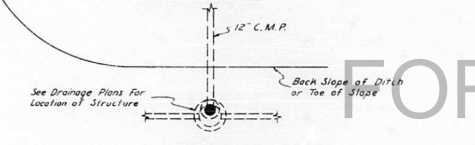
IDM Rev. 8-1-67 Detail of Precast Prestressed Driven Piles Removed Words "Steel at Bottom" from Detail

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB-3	ST. CLAIR	262	231
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		



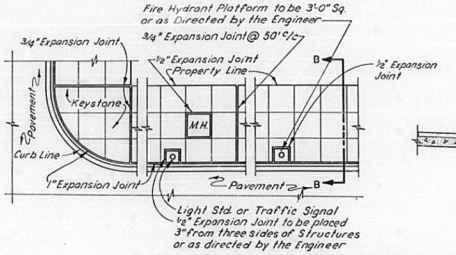
PLAN

OUTLET INTO DITCH



PLAN

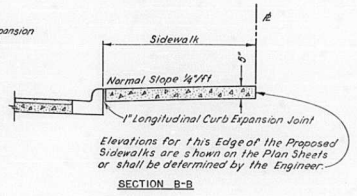
OUTLET INTO MANHOLE OR CATCH BASIN



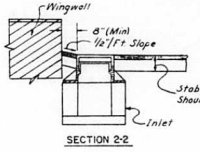
Note: When the back of a sidewalk is placed against the face of a building a 3/4" expansion joint shall be placed between the sidewalk and the face of the building flush with the finished sidewalk surface.

DETAIL OF SIDEWALK CONSTRUCTION

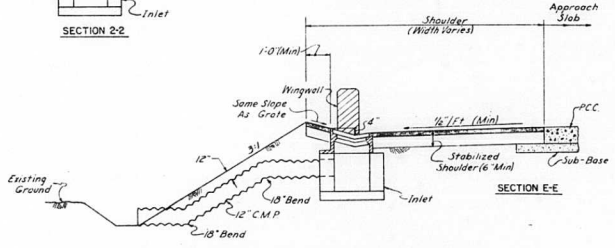
NOT TO SCALE



SECTION B-B

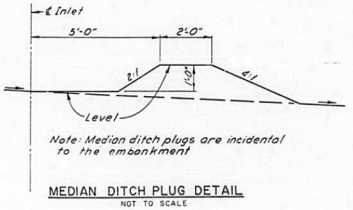


SECTION 2-2



SECTION E-E

DETAIL FOR DRAINAGE TREATMENT AT BRIDGE WINGWALLS



Note: Median ditch plugs are incidental to the embankment

MEDIAN DITCH PLUG DETAIL

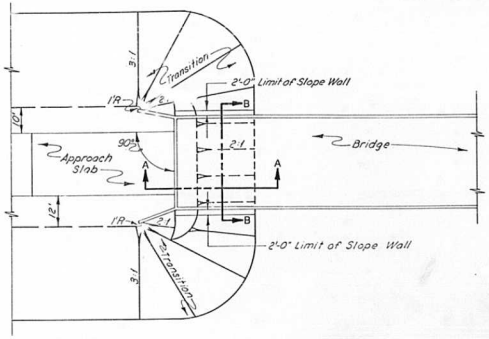
NOT TO SCALE

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

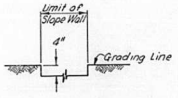
DETAILS FOR SIDEWALK CONSTRUCTION, DRAINAGE TREATMENT AT BRIDGE WINGWALLS & MEDIAN DITCH PLUG

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

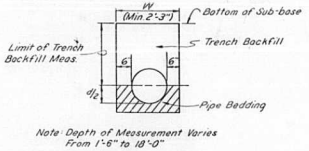
FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB-3	ST. CLAIR	262	232
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		



PLAN

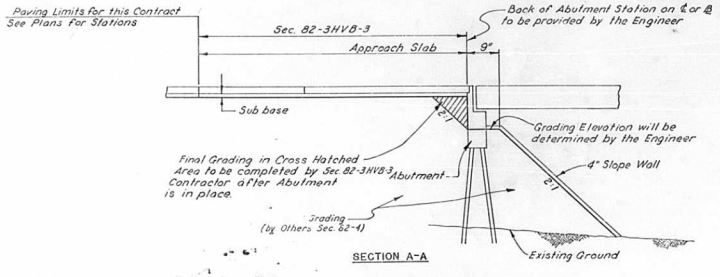


SECTION B-B



Note: Depth of Measurement Varies From 1'-6" to 18'-0"

DETAIL OF MEASUREMENT FOR TRENCH BACKFILL



SECTION A-A

GRADING DETAILS AT BRIDGE CONE FOR RAMP T

NOT TO SCALE

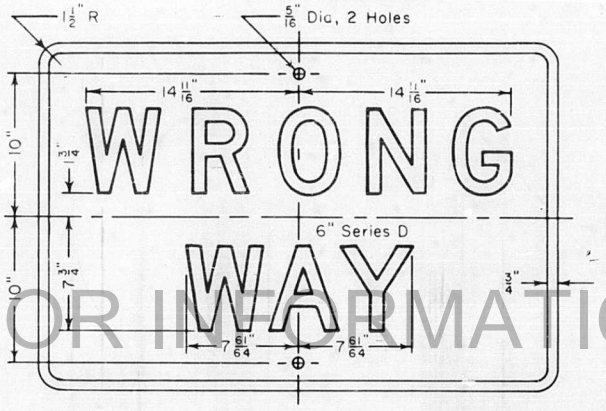
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

DETAILS FOR GRADING AT BRIDGE CONES, MEASUREMENT FOR TRENCH BACKFILL

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

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 70	*	ST. CLAIR	262	2628
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		

* 82-3HVB-3



ILLINOIS STANDARD

R6-6-3624

GENERAL NOTES

COLOR: Background, Red; Border & Letters, White.
LETTERS: Federal Standard Series, spaced as indicated.
DIMENSIONS: 36" x 24", outside.
LETTER SPACING: Space for 10" letter of the same series.

081265