ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I -70	82 3HVB-I	ST. CLAIR	207	1
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT I-IG-70-1(78)0		

P-98-087-00

DESCRIPTION OF PROJECT

SECTION 82-3HVB-1 INCLUDES THE COMPLETE CONSTRUCTION OF THE FOLLOWING:

ROADWAY A	23-REINFORCED CONCRETE PIERS
ROADWAY D	31-REINFORCED CONCRETE PIERS
ROADWAY G	12-REINFORCED CONCRETE PIERS 1-R.C. PILE BENT ABUTMENT
ROADWAY H	4-REINFORCED CONCRETE PIERS 1-R.C. PILE BENT ABUTMENT
RAMP M	8-REINFORCED CONCRETE PIERS
RAMP N	5-REINFORCED CONCRETE PIERS
RAMP O	12-REINFORCED CONCRETE PIERS 2-R.C. PILE BENT ABUTMENTS
RAMP P	12-REINFORCED CONCRETE PIERS
RAMP Q	2-REINFORCED CONCRETE PIERS
RAMP R	4-REINFORCED CONCRETE PIERS
RAMP S	12-REINFORCED CONCRETE PIERS

THE POPLAR STREET BRIDGE APPROACHES FOR THIS SECTION CARRY THE FOLLOWING:

ROADWAY A OVER THE TRACKS OF THE TERMINAL R.R. ASSOCIATION, GULF, MOBILE AND OHIO, AND ILLINOIS CENTRAL RAILROADS AND RAMP O;
ROADWAY D OVER THE TRACKS OF THE TERMINAL R.R. ASSOCIATION, GULF, MOBILE AND OHIO, ILLINOIS CENTRAL AND SOUTHERN RAILROADS, RAMP O AND ILLINOIS ROUTE 3;
ROADWAY G OVER TRENDLEY AND PIGGOTT AVENUES;
ROADWAY H OVER THE ILLINOIS CENTRAL RAILROAD;
RAMP M OVER ROADWAY A AND THE TRACKS OF THE TERMINAL R.R. ASSOCIATION AND THE GULF, MOBILE AND OHIO RAILROADS;
RAMP N OVER THE TRACKS OF THE TERMINAL R.R. ASSOCIATION AND GULF, MOBILE AND OHIO RAILROAD;
RAMP O OVER THE ILLINOIS CENTRAL RAILROAD;
RAMP P OVER ROADWAY D, FUTURE ACCESS ROADS AND THE ILLINOIS CENTRAL RAILROAD;
RAMP Q OVER THE ILLINOIS CENTRAL RAILROAD;
RAMP R OVER THE ILLINOIS CENTRAL RAILROAD AND A FUTURE ACCESS ROAD;
RAMP S OVER TRENDLEY AVENUE AND ROADWAY H.

THIS SECTION ALSO INCLUDES SYSTEM GROUNDING AND ALL APPURTENANT AND COLLATERAL WORK NECESSARY TO COMPLETE THE PROJECT AS SHOWN ON THE PLANS.

PIER D-17 & G-2 CONSTRUCTED UNDER SECTION 82-3HVB

NOTE:
FOR INDEX OF SHEETS AND SUMMARY OF QUANTITIES SEE SHEET NO. 2

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
FEDERAL AID HIGHWAY

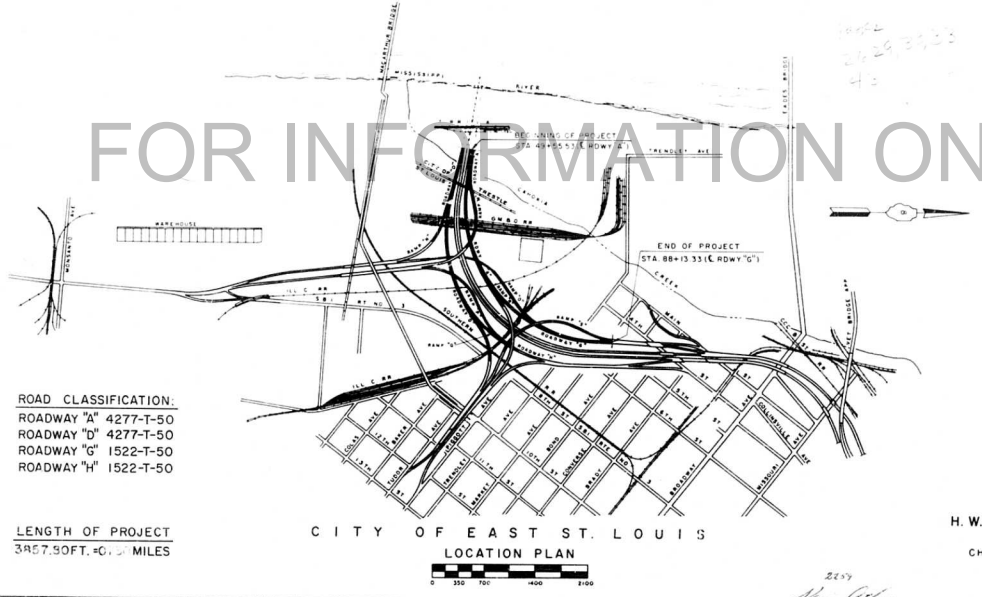
F.A.I. ROUTE 70 SECTION 82-3HVB-I

PROJECT I-IG-70-1(78)0

POPLAR STREET BRIDGE APPROACHES

ST. CLAIR COUNTY

C-98-010-65



CITY OF EAST ST. LOUIS
LOCATION PLAN
0 350 700 1400 2100

LOCATION OF SECTION INDICATED THUS:

ROAD CLASSIFICATION:

ROADWAY "A"	4277-T-50
ROADWAY "D"	4277-T-50
ROADWAY "G"	1522-T-50
ROADWAY "H"	1522-T-50

LENGTH OF PROJECT
3957.90FT. =0.7[illegible] MILES

APPROVED
[signature]
DIVISION OF HIGHWAYS

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

SUBMITTED 11-30-65
Robert E. Gnose
DISTRICT ENGINEER

EXAMINED January 21, 1966
C. William Bunhill
ENGINEER OF BRIDGES AND STRUCTURES

PASSED January 21, 1966
L. Pate
ENGINEER OF DESIGN

APPROVED January 21, 1966
[signature]

APPROVED January 21, 1966
Francis A. Lowy
CHIEF ENGINEER

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

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
APPROVED
DISTRICT ENGINEER DATE

CONTRACT NO. 24504

2257
Aug 27, 1965

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82 3HVB-1	ST. CLAIR	207	1
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT I-IG-70-1([illegible])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 SECTION 82-3HVB-1

PROJECT I-IG-70-1(78)0

POPLAR STREET BRIDGE APPROACHES

ST. CLAIR COUNTY

C-98-010-65

DESCRIPTION OF PROJECT

SECTION 82-3HVB-1 INCLUDES THE COMPLETE CONSTRUCTION OF THE FOLLOWING:

ROADWAY A	23-REINFORCED CONCRETE PIERS
ROADWAY D	31-REINFORCED CONCRETE PIERS
ROADWAY G	12-REINFORCED CONCRETE PIERS 1-R.C. PILE BENT ABUTMENT
ROADWAY H	4-REINFORCED CONCRETE PIERS 1-R.C. PILE BENT ABUTMENT
RAMP M	8-REINFORCED CONCRETE PIERS
RAMP N	5-REINFORCED CONCRETE PIERS
RAMP O	12-REINFORCED CONCRETE PIERS 2-R.C. PILE BENT ABUTMENTS
RAMP P	12-REINFORCED CONCRETE PIERS
RAMP Q	2-REINFORCED CONCRETE PIERS
RAMP R	4-REINFORCED CONCRETE PIERS
RAMP S	12-REINFORCED CONCRETE PIERS

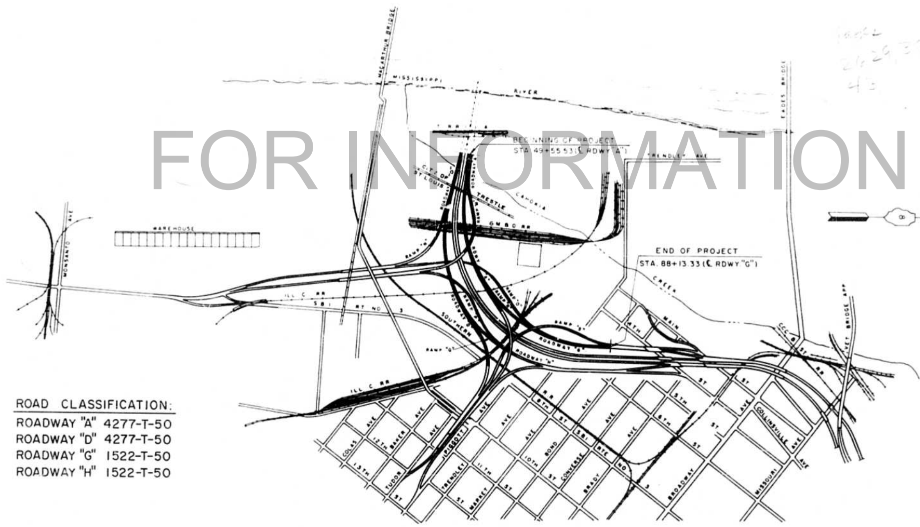
THE POPLAR STREET BRIDGE APPROACHES FOR THIS SECTION CARRY THE FOLLOWING:

ROADWAY A OVER THE TRACKS OF THE TERMINAL R.R. ASSOCIATION, GULF, MOBILE AND OHIO, AND ILLINOIS CENTRAL RAILROADS AND RAMP O;
ROADWAY D OVER THE TRACKS OF THE TERMINAL R.R. ASSOCIATION, GULF, MOBILE AND OHIO, ILLINOIS CENTRAL AND SOUTHERN RAILROADS, RAMP O AND ILLINOIS ROUTE 3;
ROADWAY G OVER TRENDLEY AND PIGGOTT AVENUES;
ROADWAY H OVER THE ILLINOIS CENTRAL RAILROAD;
RAMP M OVER ROADWAY A AND THE TRACKS OF THE TERMINAL R.R. ASSOCIATION AND THE GULF, MOBILE AND OHIO RAILROADS;
RAMP N OVER THE TRACKS OF THE TERMINAL R.R. ASSOCIATION AND GULF, MOBILE AND OHIO RAILROAD;
RAMP O OVER THE ILLINOIS CENTRAL RAILROAD;
RAMP P OVER ROADWAY D, FUTURE ACCESS ROADS AND THE ILLINOIS CENTRAL RAILROAD;
RAMP Q OVER THE ILLINOIS CENTRAL RAILROAD;
RAMP R OVER THE ILLINOIS CENTRAL RAILROAD AND A FUTURE ACCESS ROAD;
RAMP S OVER TRENDLEY AVENUE AND ROADWAY H.

THIS SECTION ALSO INCLUDES SYSTEM GROUNDING AND ALL APPURTENANT AND COLLATERAL WORK NECESSARY TO COMPLETE THE PROJECT AS SHOWN ON THE PLANS.

PIER D-17 & G-2 CONSTRUCTED UNDER SECTION 82-3HVB

NOTE:
FOR INDEX OF SHEETS AND SUMMARY OF QUANTITIES SEE SHEET NO. 2



ROAD CLASSIFICATION:
ROADWAY "A" 4277-T-50
ROADWAY "D" 4277-T-50
ROADWAY "G" 1522-T-50
ROADWAY "H" 1522-T-50

LENGTH OF PROJECT
3857.90FT. =0.[illegible] MILES

CITY OF EAST ST. LOUIS

LOCATION PLAN

0 350 700 1400 2100

LOCATION OF SECTION INDICATED THUS:

APPROVED
Carl E. Thunman Jr.
Engineer of Bridge & Traffic Structures

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

SUBMITTED 11 · 30 1965
Robert E. Kronat
DISTRICT ENGINEER

EXAMINED January 21 1966
A. V. Van Auxdall
ENGINEER OF ROAD PLANS AND CONTRACTS

PASSED January 21 1966
W. J. Allen
ENGINEER OF DESIGN

APPROVED January 21 1966
CHIEF HIGHWAY ENGINEER

APPROVED January 21 1966
Francis S. Lorenz
DIRECTOR

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

APPROVED

DISTRICT ENGINEER DATE

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

CONTRACT NO. 24504

2254
Allen
Aug 27, 1965

ST. CLAIR COUNTY SECTION 82-3HVB-1 F.A.I. ROUTE 70 PROJECT I-IG-70-1(78)0

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F A I 70	82-3HVB-1	ST. CLAIR	207	2
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

INDEX OF SHEETS
SECTION 82-3 HVB - 1

SHEET NO.	TITLE
1	TITLE SHEET
2	INDEX OF SHEETS, SUMMARY OF QUANTITIES, GENERAL NOTES
3	ELECTRICAL GROUNDING DETAILS
4 AND 5	PLAN OF EXISTING CONDITIONS AND UTILITIES
6 THRU 10	RIGHT OF WAY PLANS (FOR INFORMATION ONLY)
11	LIST OF BENCH MARKS, TIES TO TRAVERSE LINE AND GENERAL PLAN OF TRAVERSE LINE
12 THRU 16	ALIGNMENT PLANS
17 THRU 19	LIST OF COORDINATE POINTS AND DESCRIPTIONS
20	KEY PLAN, GENERAL NOTES AND BILL OF MATERIAL
21 THRU 25	GENERAL PLANS
26 THRU 44	PLAN AND ELEVATION
45 THRU 53	GEOMETRIC LAYOUTS
54	BEARING ELEVATIONS
55 THRU 58	ABUTMENTS
59 THRU 137	PIERS
138 THRU 141	RAILROAD PROFILES
142 THRU 203	BORING LOGS
204	CONCRETE PILE DETAILS
205	STANDARDS 1686-2, 2153-4
206	STANDARD 2113-1, 2114
207	STANDARD 1971-3

SUMMARY OF QUANTITIES
SECTION 82-3HVB-1

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	I 87.9%	II 12.1%
Z01598	ENGINEER'S FIELD OFFICE TYPE 'A'	EACH	1	0.9	0.1
Z01379	ENGINEER'S FIELD LABORATORY	EACH	1	0.9	0.1
010001	TREE REMOVAL (6 TO 15 INCH DIAMETER)	IN. DIA.	322	283	39
010002	TREE REMOVAL (OVER 15 INCH DIAMETER)	IN. DIA.	98	86	12
016001	EMBANKMENT	CU. YD.	354	311	43
050001	CLASS A EXCAVATION FOR STRUCTURES	CU. YD.	19,137	16,821	2,316
052003	CLASS "X" CONCRETE	CU. YD.	17,931.9	15,762.1	2,169.8
059001	REINFORCEMENT BARS	POUND	2,413,060	2,121,080	291,980
060004	FURNISHING CREOSOTED PILES (UP TO 20 FEET)	LIN. FT.	128	112	16
060005	FURNISHING CREOSOTED PILES (20.1 TO 38 FEET)	LIN. FT.	393	345	48
060008	DRIVING TIMBER PILES	LIN. FT.	521	458	63
060043	DRIVING CONCRETE PILES	LIN. FT.	148,118	130,196	17,922
060044	FURNISHING CONCRETE PILES	LIN. FT.	148,118	130,196	17,922
060047	TEST PILE CONCRETE	EACH	129	113	16
083002	SLOPE WALL 4 INCH	SQ. YD.	1,018	895	123
L05066	SYSTEM GROUNDING	LUMP SUM	1	0.9	0.1
Z01023	BRIDGE SEAT SEALANT	LUMP SUM	1	0.9	0.1
Z01065	RAILROAD PROTECTIVE SERVICES	LUMP SUM	1	0.9	0.1

GENERAL NOTES

- THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 2, 1958, THE SUPPLEMENTAL SPECIFICATIONS IN EFFECT ON DATE OF INVITATION FOR BIDS AND THE STANDARD SPECIFICATIONS FOR TRAFFIC SIGNALS, ADOPTED JUNE 1, 1959 SHALL GOVERN THIS CONSTRUCTION.
- ALL ELEVATIONS REFER TO U.S.G.S. MEAN SEA LEVEL DATUM.
- THE PROFILE GRADE LINE REFERS TO THE GRADE ELEVATION AT THE POINT SHOWN ON THE TYPICAL SECTIONS AND PLANS.
- POSITIVE PROFILE GRADES ARE IN THE DIRECTION OF TRAFFIC AND HIGHER ELEVATIONS.
- NEGATIVE PROFILE GRADES ARE IN THE DIRECTION OF TRAFFIC AND LOWER ELEVATIONS.
- BUILDINGS WITHIN R.O.W. LIMITS HAVE BEEN REMOVED OR ARE IN THE PROCESS OF BEING REMOVED DOWN TO EXISTING GROUND LEVEL AND BASEMENTS BACKFILLED WITH BRICK OR MASONRY RUBBLE AND SAND TO FILL THE VOIDS.
- 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
  WESTERN UNION TELEGRAPH COMPANY

- WHERE REINFORCING BAR MARKS ARE REFERENCED TO "NOTE X-SHEET 35" THE FIRST 2 OR 3 DIGITS CORRESPOND TO THE SHEET NUMBER AND ARE SHOWN ON THE DRAWING.
- WHERE SECTION OR SUB-SECTION STONES ARE ENCOUNTERED THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH STONES ARE REMOVED. THE CONTRACTOR SHALL PROTECT & CAREFULLY PRESERVE ALL PROPERTY MARKS UNTIL AN OWNER OR AUTHORIZED SURVEYER OR AGENT HAS WITNESSED OR OTHERWISE REFERANCE THERE LOCATION.

Excavation for portions of structures in the embankments shall not be classified.

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

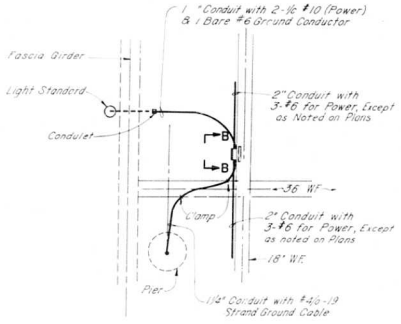
INDEX OF SHEETS
SUMMARY OF QUANTITIES
GENERAL NOTES

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

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

SHEET OF

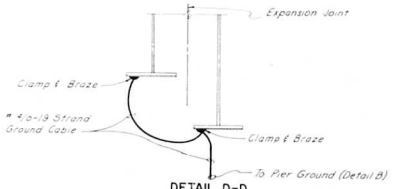
FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
FAI 70	82-3HVB-1	ST. CLAIR	207	5
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		



SECTION A - A

PLAN

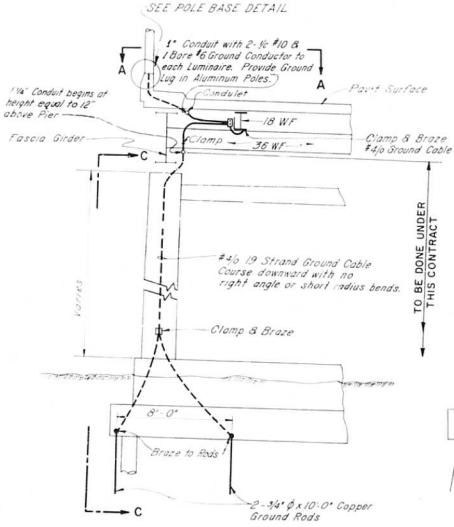
DONE BY OTHERS (SEC. 82-3HVD-1)



DETAIL D-D

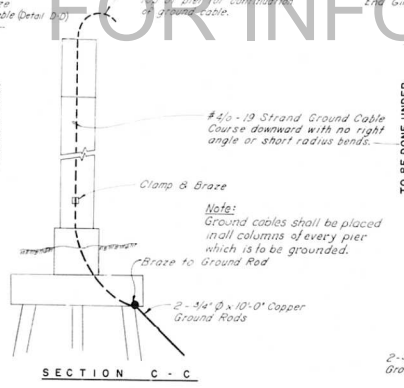
GROUNDING AT EXPANSION JOINT

WITHOUT CONDUIT & JUNCTION BOX



FRONT ELEVATION OF TYPICAL GROUNDING AT EXPANSION PIER WITH LIGHT STANDARD

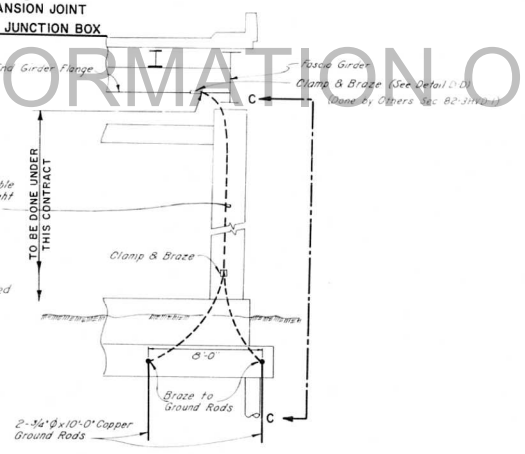
DETAIL 'A'



SECTION C - C

SIDE VIEW OF TYPICAL GROUNDING AT EXPANSION PIER

(TO BE DONE UNDER THIS CONTRACT)



FRONT ELEVATION OF TYPICAL GROUNDING AT EXPANSION PIER WITHOUT LIGHT STANDARD

DETAIL 'B'

SCHEDULE OF PIERS TO BE GROUNDED

Ramp A	Ramp D	Ramp G	Ramp H	Ramp M	Ramp N	Ramp O	Ramp P	Ramp R	Ramp S
A5	D5	G1	H1	M9	N1	O3	P4	R3	S3
A8	D8	G5	H2	M12	N5	O6	P7		S7
A11	D11	G9				O7	P10		S18
A12	D12	G12				O14	P14		
A15	D15						P15		
A18	D18								
A21	D21								
	D22								
	D26								
	D28								
	D33								

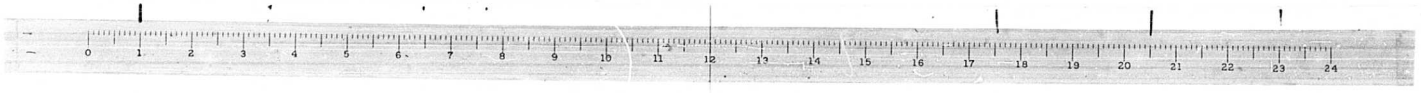
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

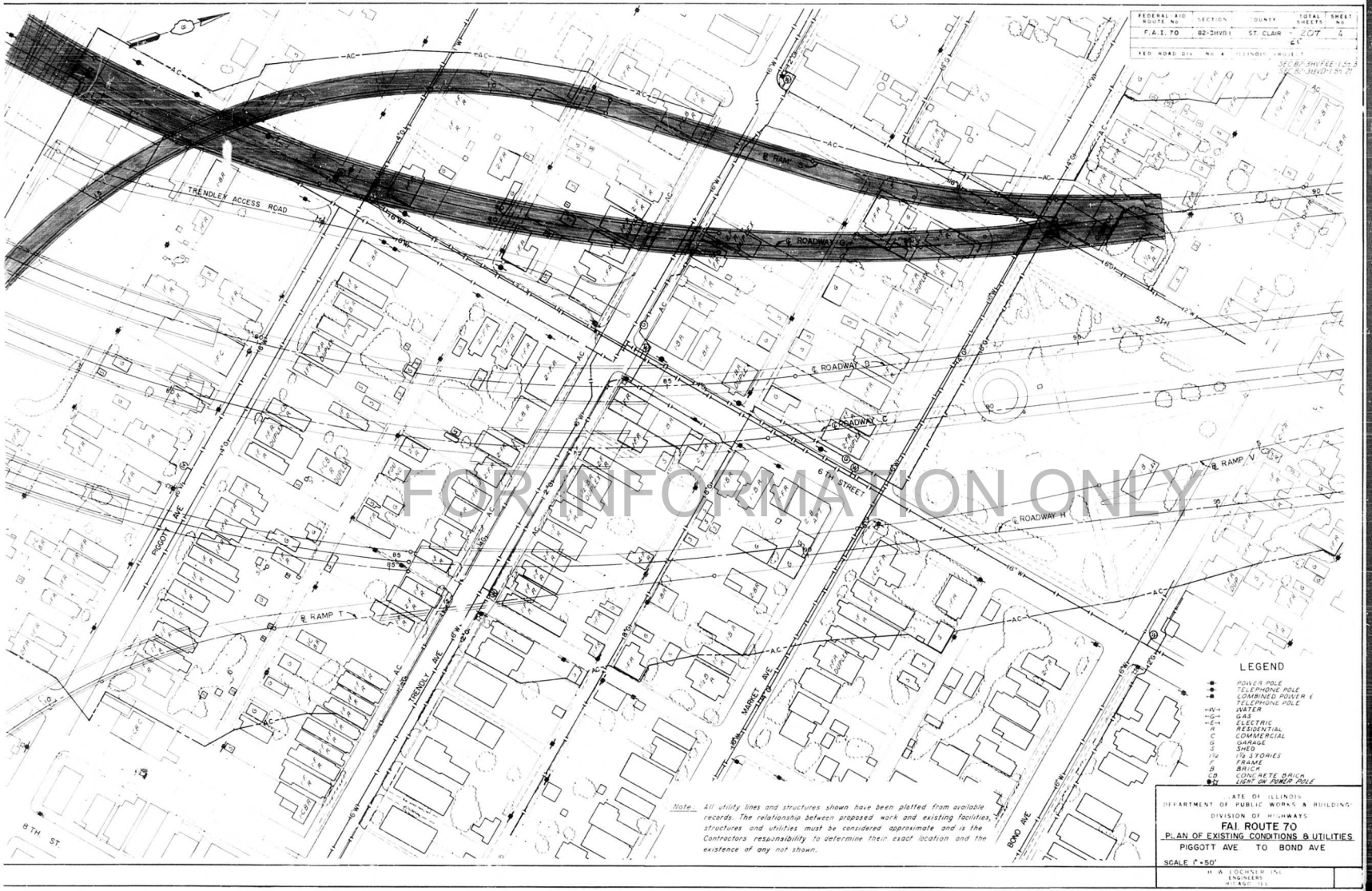
ELECTRICAL

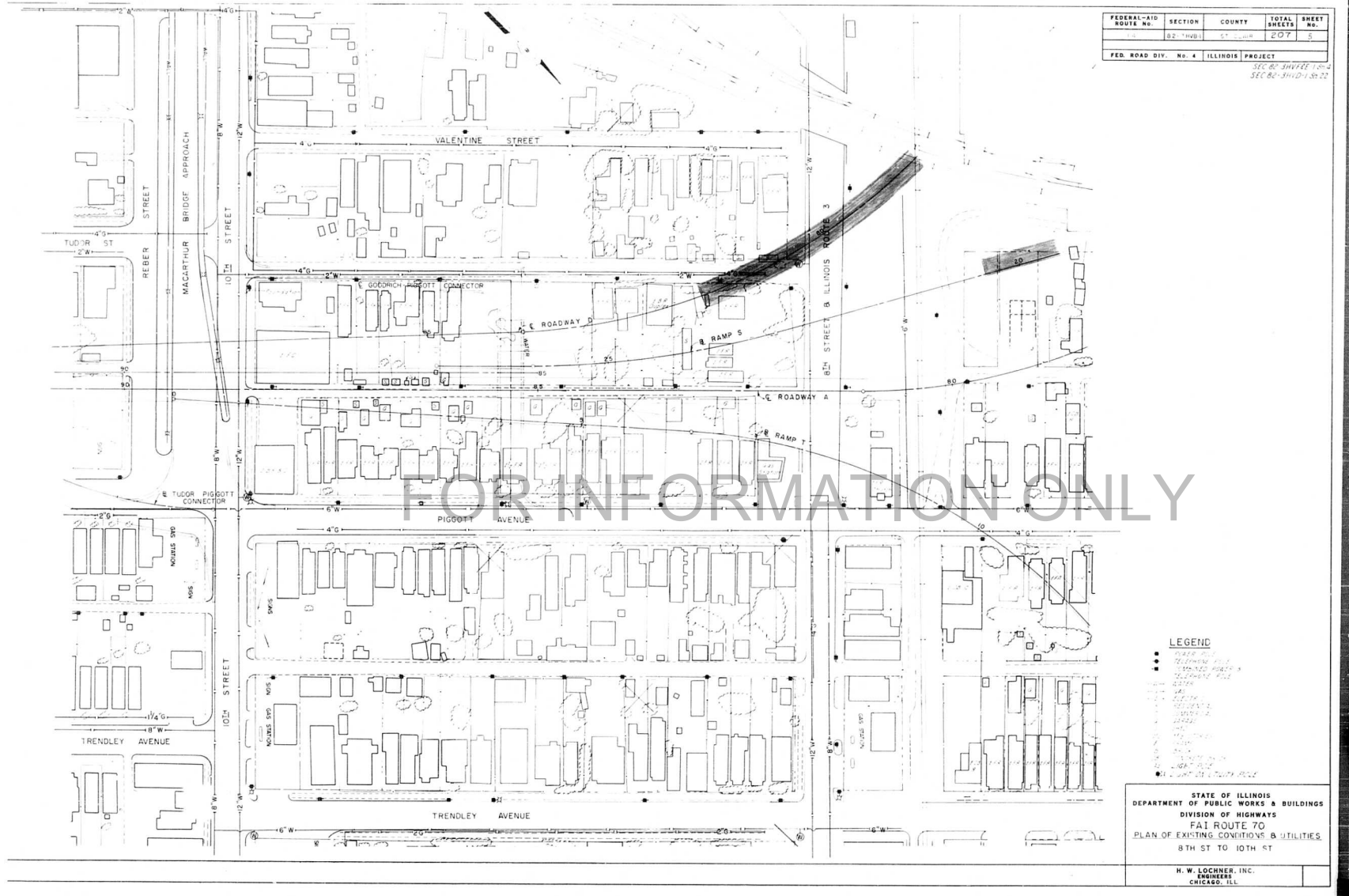
TYPICAL GROUNDING DETAILS

NOT TO SCALE

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







FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
FAI 90	82-1HVB1	ST. CLAIR	207	5
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		

SEC 82-3HVB1 (St-2
SEC 82-3HVD1 (St-2)

LEGEND

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS
FAI 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	82-3HV8-1	ST. CLAIR	207	6
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		

82-3HVFEE-1 Sht 5
82-3 HVD-1 Sht 23

CURVE A-1	
P.I.	= 44+49.79
Δ	= 1°57'51"
D	= 0°16'51"
R	= 20,405.00'
L	= 699.51'
T	= 349.79'
E	= 3.00'

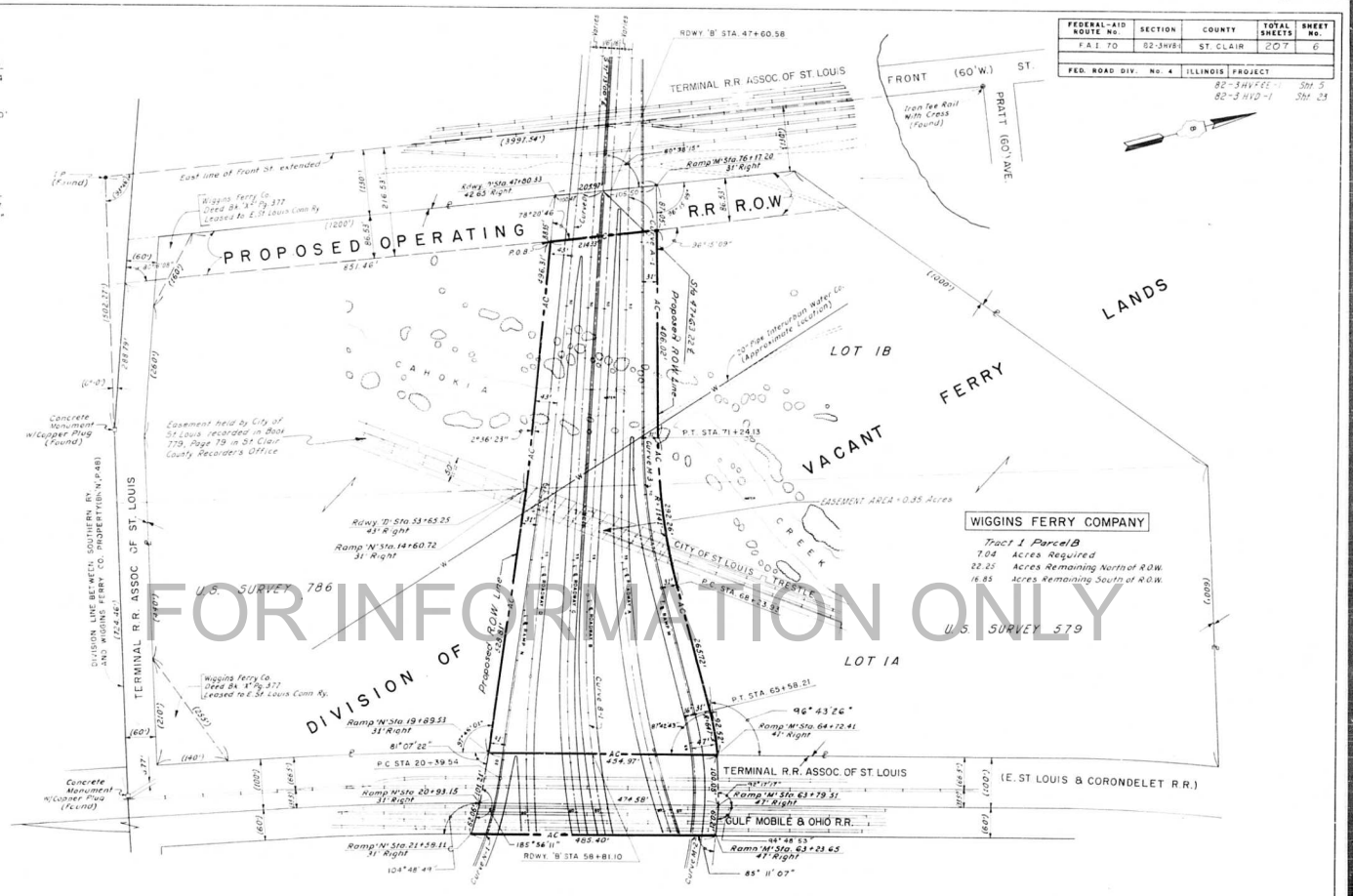
CURVE B-1	
P.I.	= 76+37.10
Δ	= 97°39'16"
D	= 3°09'24"
R	= 1815.00'
L	= 3093.47'
T	= 2075.25'
E	= 941.97'

CURVE D-1	
P.I.	= 44+99.74
Δ	= 2°17'29"
D	= 0°17'12"
R	= 19,988.00'
L	= 799.37'
T	= 399.74'
E	= 4.00'

CURVE M-2	
P.I.	= 62+15.89
Δ	= 91°18'24"
D	= 9°32'57"
R	= 600'
L	= 956.16'
T	= 613.84'
E	= 258.37'

CURVE M-3	
P.I.	= 69+74.86
Δ	= 14°40'3."
D	= 4°52'19"
R	= 1172'
L	= 300.20'
T	= 150.93'
E	= 9.68'

URVE N-1	
Γ	= 25+09.37
Δ	= 67°44'14"
D	= 8°11'06"
R	= 700'
L	= 827.57'
T	= 469.82'
E	= 143.05'



LEGEND

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

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

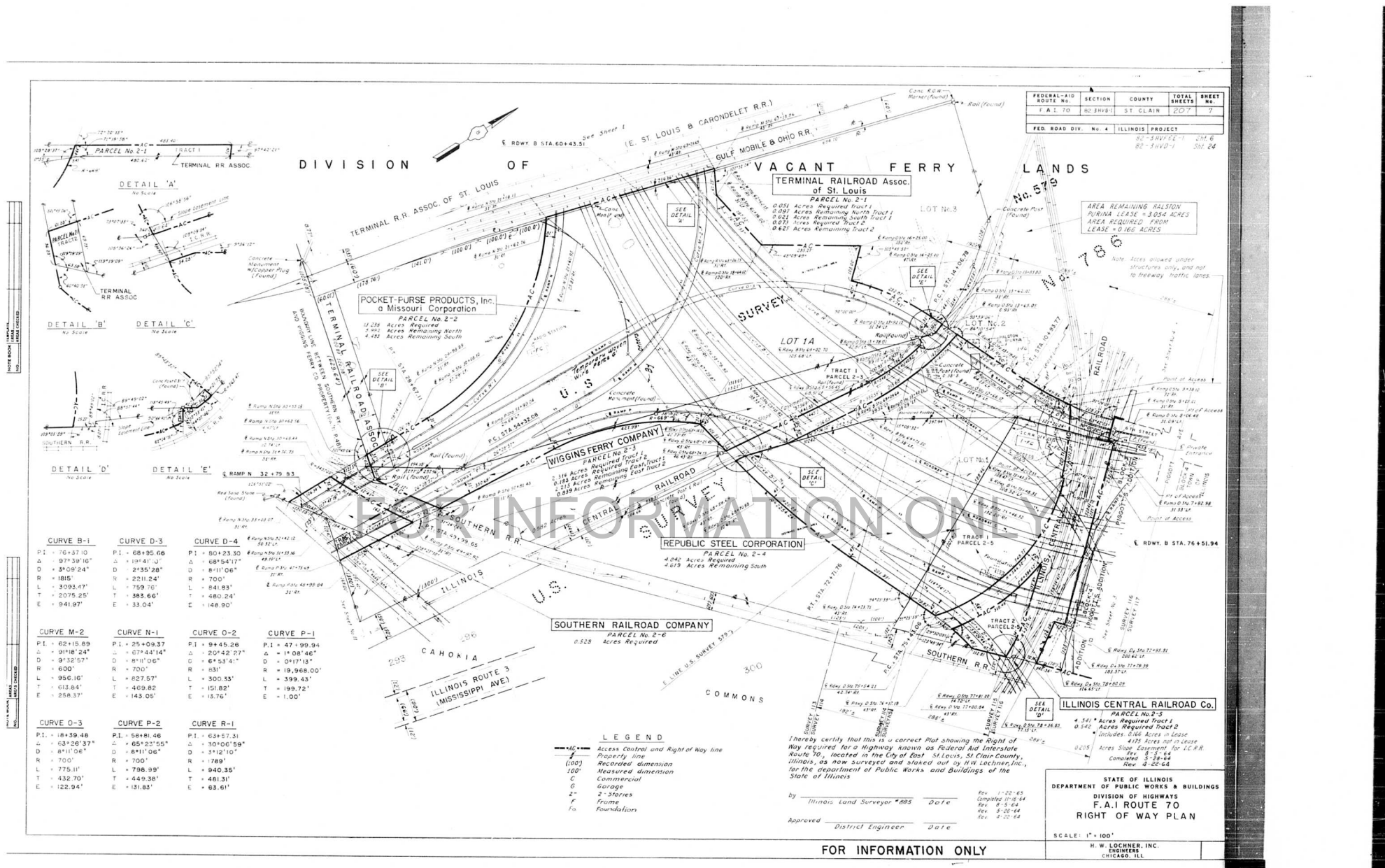
by _____ Illinois Land Surveyor #886 _____ Date

Approved _____ District Engineer _____ Date

Completed 5-28-64

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS
F.A.I ROUTE 70
RIGHT OF WAY PLAN
STA. 47+60.58 TO STA. 58+81.10
SCALE: 1" = 100'

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



FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVS-1	ST. CLAIR	207	7
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		

82-3HVFSE-1 Sht. 6
82-3HVD-1 Sht. 24

CURVE B-1		CURVE D-3		CURVE D-4	
P.I.	= 76+37.10	P.I.	= 68+95.66	P.I.	= 80+23.30
Δ	= 97°39'16"	Δ	= 19°41'.0"	Δ	= 68°54'17"
D	= 3°09'24"	D	= 2°35'28"	D	= 8°11'06"
R	= 1815'	R	= 2211.24'	R	= 700'
L	= 3093.47'	L	= 759.76'	L	= 841.83'
T	= 2075.25'	T	= 383.66'	T	= 480.24'
E	= 941.97'	E	= 33.04'	E	= 148.90'

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

CURVE O-3		CURVE P-2		CURVE R-1	
P.I.	= 18+39.48	P.I.	= 56+81.46	P.I.	= 63+57.31
Δ	= 63°26'37"	Δ	= 65°23'55"	Δ	= 30°06'59"
D	= 8°11'06"	D	= 8°11'06"	D	= 3°12'10"
R	= 700'	R	= 700'	R	= 1789'
L	= 775.11'	L	= 798.99'	L	= 940.35'
T	= 432.70'	T	= 449.38'	T	= 481.31'
E	= 122.94'	E	= 131.83'	E	= 63.61'

LEGEND

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

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

by _____ Illinois Land Surveyor #885 _____ Date

Approved _____ District Engineer _____ Date

Rev. 1-22-65
Completed 11-16-64
Rev. 6-5-64
Rev. 3-26-64
Rev. 4-20-64

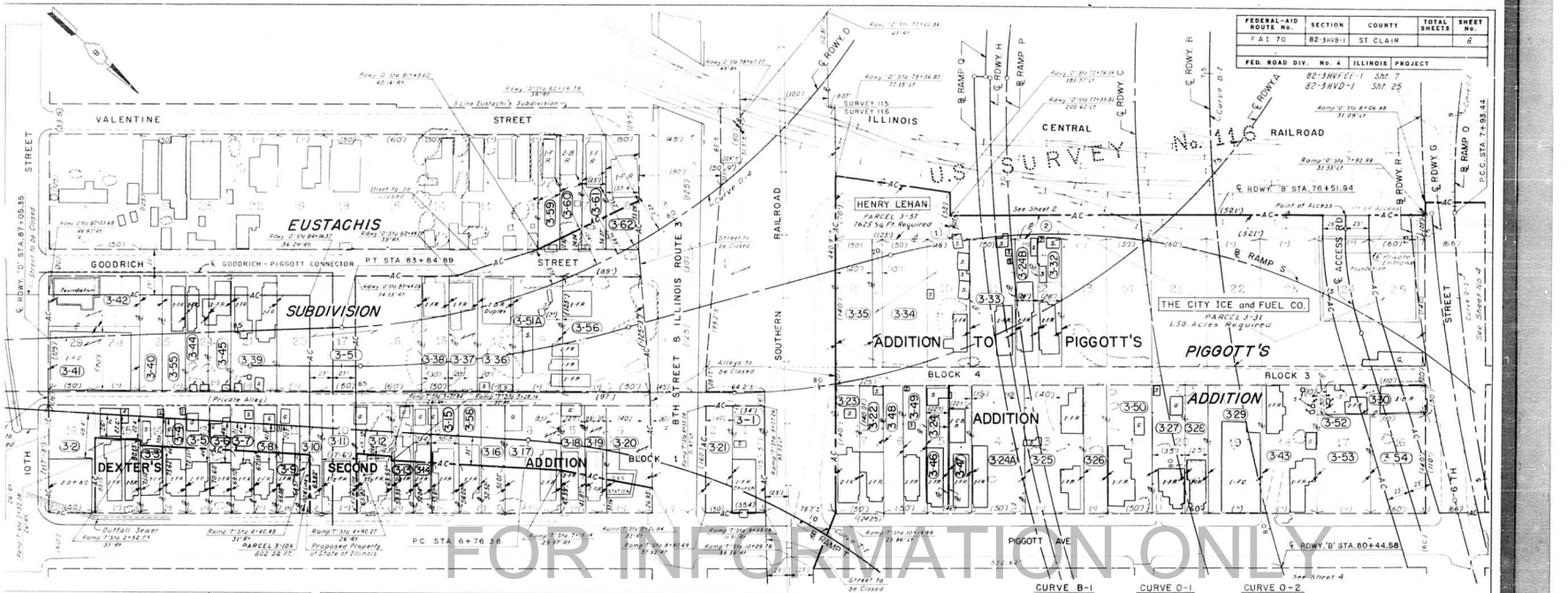
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS
F.A.I ROUTE 70
RIGHT OF WAY PLAN

SCALE: 1" = 100'

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

Rev. 5-3-64
Completed 5-28-64
Rev. 4-22-64

FOR INFORMATION ONLY



FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 70	82-3HVB-1	ST. CLAIR		8
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT	82-3HVF-EE-1 Sht. 7 82-3HVD-1 Sht. 25	

PIGGOTT'S ADDITION TO TOWN OF ILLINOIS (1)

LOT NO	BLOCK NO	OWNER	AREA REQ'D SQ. FT	REMAINDER SQ. FT.
20	3	WILLIAM A. KOPP & ANITA E. KOPP, his wife	4,900	0
20	3	GEORGE NELSON & LEONA NELSON, his wife	3,500	0
9	3	MODERN ENGINEERING COMPANY, INC	8,400	0
17	3	CLAUD FUNCHES & NETTIE FUNCHES, his wife	3,300	0
17	3	EMMA L. VEACH	3,00	0
5	3	JIM MADISON & CHARLOR MADISON, his wife	8,400	0
17	3	ORDIER C. SIBLEY	6,600	0
16	3	HARRY ELDRIDGE and GEORGIA L. ELDRIDGE, his wife	6,600	0

...K OF PLATS 'I', PAGE 117

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

LOT NO	BLOCK NO	OWNER	AREA REQ'D SQ. FT	REMAINDER SQ. FT.
7	4	JESSE NUNN & IDELLA NUNN, his wife	3,553	0
24 & 3	4	ANGELO E. CASTELLANI & ANNA N. CASTELLANI, his wife	5,775 & 1,925	0 & 0
2	4	PAUL H. W. COHN Jr.	9,100	0
4	4	MARTIN SURRATT RANDLE	3,500	0
7	4	FRITZ SILBERMAN and FLORENCE E. SILBERMAN, his wife	3,447	0
12	4	MAHALIE WOODS	3,640	0
1	4	FLOYD HAWKINS & NANCY HAWKINS, his sister	7,000	0
6	4	PHILIP DAVIS	14,840	0
11	4	BRUCE H. LEW and LOUIS E. MITAUER	5,600	0
5	4	SAMMY CONNOR Sr., MATTIE CONNOR, his wife and SAMMY CONNOR Jr.	3,080	0
10 & 3	4	SIMON HOUSTON and ANNIE HOUSTON, his wife	3,360	0
8	4	EUGENE and RUPERT MAULE and EUGENIA SKRAGE	3,500	0
6	4	MICHAEL ALOVANICH and FRANK NALIVAYAC	3,500	0
	4	HENRY A. HOOVER and ERISENE HOOVER, his wife	7,000	0

...K 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	13 1/6	1	THEODORE N. MARKULY	7,671	4,082
3-3	pt 14	1	LLON THOMPSON & SAVANAH THOMPSON, his wife	1,675	1,859
3-4	pt 14	1	CORNELL DAUGHERTY & GRACE KING, his mother	1,710	1,862
3-5	pt 13	1	CHARLES KLINE	1,147	1,784
3-6	pt 13	1	ALEXANDER J. BOGUN & MARGERET BOGAN, his wife	1,183	1,746
3-7	pt 12	1	MILES HOWARD & 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 & MARGARET COLEMAN, his wife	1,291	1,633
3-10	pt 11	1	LOUIS STREETER & CORNELIA STREETER, his wife	2,120	0
3-11	pt 10	1	HAZEL HOLLIS	4,379	0
3-12	pt 10, pt 9	1	HENRY LOUIS DOWELL & SARAH DOWELL, his wife	1,943	2,426
3-13	pt 9	1	JAMES A. TOLSON & ADA TOLSON, his wife	1,470	1,495
3-14	pt 8	1	EARNEST OUTLAW & VERTIE MAE OUTLAW, his wife	1,162	1,091
3-15	pt 8	1	ANNIE L. BALL & LEO BALL, her husband	1,885	1,685
3-16	pt 7	1	PAUL MEYER	1,614	1,294
3-17	6, pt 5	1	BERTHA GRENBERG	4,017	2,952
3-18	pt 6	1	ELLEN V. SHELTON	1,929	1,205
3-19	pt 5, pt 6	1	MARY E. GERLD	1,759	909
3-20	pt 3, pt 4	1	JOSEPH A. TROY, Jr	4,192	1,402
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	1,573	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 & MABEL BANKS, his wife	5,000	0
3-37	pt 13, pt 12		MAGGIE TATE	3,750	0
3-38	pt 13		ARTHUR P. MEYER & ELNORA B. MEYER, his wife	3,750	0
3-39	21		ERNEST J. HOFFINGER & RAYMOND HOFFINGER	6,250	0
3-40	pt 24		ALEX DOMYAN & SHIRLEY M. DOMYAN, his wife	3,125	0
3-41	pt 24, pt 23		ROSE DOMYAN	7,000	0
3-42	pt 23, pt 22		ARTHUR C. DOUGLAS & BESSIE DOUGLAS, his wife	5,500	0
3-44	pt 24		EDWARD R. HELLMAN and DOROTHY LEE HELLMAN, his wife	3,125	0
3-45	pt 24		CHARLES DOMYAN, Jr. and ALEX DOMYAN	3,125	0
3-47	16, pt 20		ESTATE of GEORGE SCHAUB	20,000	0
3-51A	pt 8, 9		ESTATE of GEORGE SCHAUB	6,625	0
3-51	15, pt 9		JEFF SMITH and BLALIAH SMITH, his wife	11,625	0
3-59	pt 10		D. KENNETH RANK and MILDRED RANK, his wife	150	2975
3-60	pt 7		LOUIS N. RANK	451	2674
3-61	pt 7		WILLIAM P.A. RANK	751	2374
3-62	pt 6		LEO L. RANK and ANTOINETTE RANK, his wife	1,578	2,847
3-55	pt 25		ARNOLD COHN	3,125	0

(4) BOOK OF PLATS 'D' PAGE 137

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

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

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

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

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

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

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

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

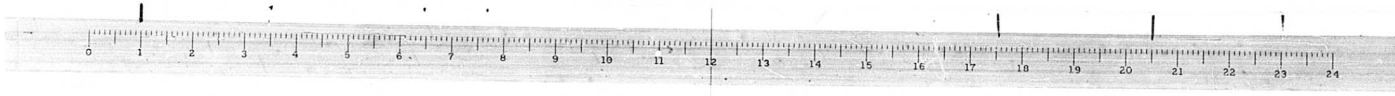
by _____ Illinois Land Surveyor # 885 Date

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
SCALE: 1" = 50'

FOR INFORMATION ONLY

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



TOWN OF ILLINOIS (1)

PARCEL NO.	LOT NO.	BLOCK NO.	OWNER	AREA REQ'D SQ. FT.	REMAINDER SQ. FT.
11	pt 10	4	PLEAS JONES and CLARA JONES, his wife	3,150	0
12	pt 10	4	JOSEPH L GEROLD and MARGARET L GEROLD, his wife	3,250	0
3	pt 8	4	JIMMIE WARE and LUEELLA WARE, his wife	2,800	0
4	pt 8	4	ETHEL STACK and CATHERINE IRENE O'LEARY	280	0
5	pt 8	4	REVETTER COLEMAN	5,320	0
6	pt 7	4	PEARL REASON MEALLISTER and PETE REASON, her son	4,900	0
7	pt 7	4	HARRY THOMAS and MAMIE THOMAS, his wife	3,500	0
8	6	4	FRITZ SILBERMAN	8,400	0
9	pt 1	4	VOICE PREATHER and CORA ANN PREATHER, his wife	2,100	0
10	pt 1	4	GASTON DIXON	2,100	0
11	pt 1	4	RICHARD PAYNE and PECOLA PAYNE, his wife	4,20	0
2	pt 2	4	CONSTANT HILL and REBECCA L HILL	2,10	0
3	pt 2	4	DAVID CONRAD and TRESSIE LEE CONRAD, his wife	4,200	0
4	pt 3	4	MAURICE COPILEVITZ and ROSE COPILEVITZ, his wife	4,200	0
5	pt 3	4	HERBERT E. HOTTES	4,200	0
6	pt 4, pt 5	4	JOSEPHINE HILL and EDGAR HILL, her husband, and ROBERT H REED and DARLINE K REED, his wife	4,800	0
7	pt 4, pt 5	4	JOHN LAMBERT	3,600	0
8	pt 1	3	ARNOLD COHN	2,400	0
9	pt 1	3	FRANK IRONS and DECILE IRONS, his wife	6,000	0
10	pt 2	3	FLORENCE T MEREDITH	4,200	0
1	pt 2, pt 3	3	ISIAH ANDERSON and LOU ANNA ANDERSON, his wife	5,040	0
2	pt 4	3	JOHN W. ATCHISON	4,480	0
3	pt 8	3	HERBERT E. HOTTES	4,200	0
8	pt 3	3	ALBERT JONES and MATTIE JONES, his wife	3,500	0
9	pt 3	3	EUGENIA SICKAGE	700	0
0	9	4	INTERSTATE BOND Co.	8,400	0
1	pt 2	4	ELIZABETH CAMPBELL, et. al.	2,100	0
2	pt 4, pt 5	4	BEN ROWRY and VERDA B ROWRY, his wife	3,600	0
3	pt 4, pt 5	4	SAM GOLDSTEIN and MINNIE GOLDSTEIN, his wife	4,800	0
4	pt 3	3	EDWARD P HOLLMAN and DOROTHY LEE HOLLMAN, his wife	3,360	0
5	pt 4	3	ROSHELLE MARIE NELSON	3,920	0
6	5	3	SYLVESTER COLEMAN and LILLIAN COLEMAN, his wife	3,291	5,109
7	pt 1-8	3	FRANK CASON and MARY LUE CASON, his wife	4,200	0

BOOK OF PLATS 'C', PAGES 314 & 315

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

PARCEL NO.	LOT NO.	BLOCK NO.	OWNER	AREA REQ'D SQ. FT.	REMAINDER SQ. FT.
	pt 13	1	LAFAYETTE WEBSTER and MARY E WEBSTER, his wife	3,500	0
	pt 13	1	SAM GOLDSTEIN	3,500	0
	pt 14	1	EDWARD KIMME and KATIE KIMME, his wife	3,500	0
	pt 14	1	ROBERT JONES and ANNA NESBITT	3,500	0
	pt 15	1	FRITZ SILBERMAN	3,500	0
	pt 15	1	ROBERT HUDSON Jr and MAGGIE HUDSON, his wife	3,500	0
	pt 16	1	WILLI MAE BROWN	3,500	0
	pt 16	1	ALBERTA M ELLIOTT and QUINTON ELLIOTT, her husband	3,500	0
	pt 2	1	PHILIP A. COHN Jr.	3,500	0
	1	1	STANLEY W GREGOROWICZ and VIOLA MAE GREGOROWICZ, his wife	7,000	
	pt 10	1	BRUCE H LEW and LOUIS F. M. TAUER	3,600	0
	pt 10	1	JEREMIAH LEHAN and MARY LEHAN, his wife	1,669	0
	11	1	ALBERT A. HEQUEMBOURG, and CATHERINE R HEQUEMBOURG, his wife	7,000	0
	pt 12	1	SAMUEL STEWART and MINNIE STEWART, his wife	3,500	0
	pt 12	1	E.J. SIERON	3,500	0
	pt 6	1	GILNAZ BAKAIAN and ARMAN BAKAIAN, her husband	347	3,153
	pt 5	1	DONNIE ELIZABETH PLAYER	647	1,775
	pt 5	1	EMMETT FARRELL and ETHEL FARRELL, his wife	1,026	1,494
	pt 4, pt 5	1	ROSETTA THOMAS	1,461	989
	pt 4	1	WILLIAM R WEIDMAN	2,520	0
	pt 4	1	JOSEPHINE DUPREE	2,520	0
	pt 3, pt 4	1	BURL NICHOLSON and VINNIE LEE NICHOLSON, his wife	2,478	0
	pt 3	1	CHARLIE ANN ROGERS and ELSIE DROGERS	2,394	0
	pt 2, pt 3	1	HAROLD G. BAKER	1,000	0

BOOK OF PLATS 'E' PAGE 40

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

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

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

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

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

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

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

CURVE O-1
P.I. = 44+02.17
Δ = 25°05'03"
D = 2°54'34"
R = 1969.33'
L = 793.44'
T = 402.17'
E = 40.65'

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

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

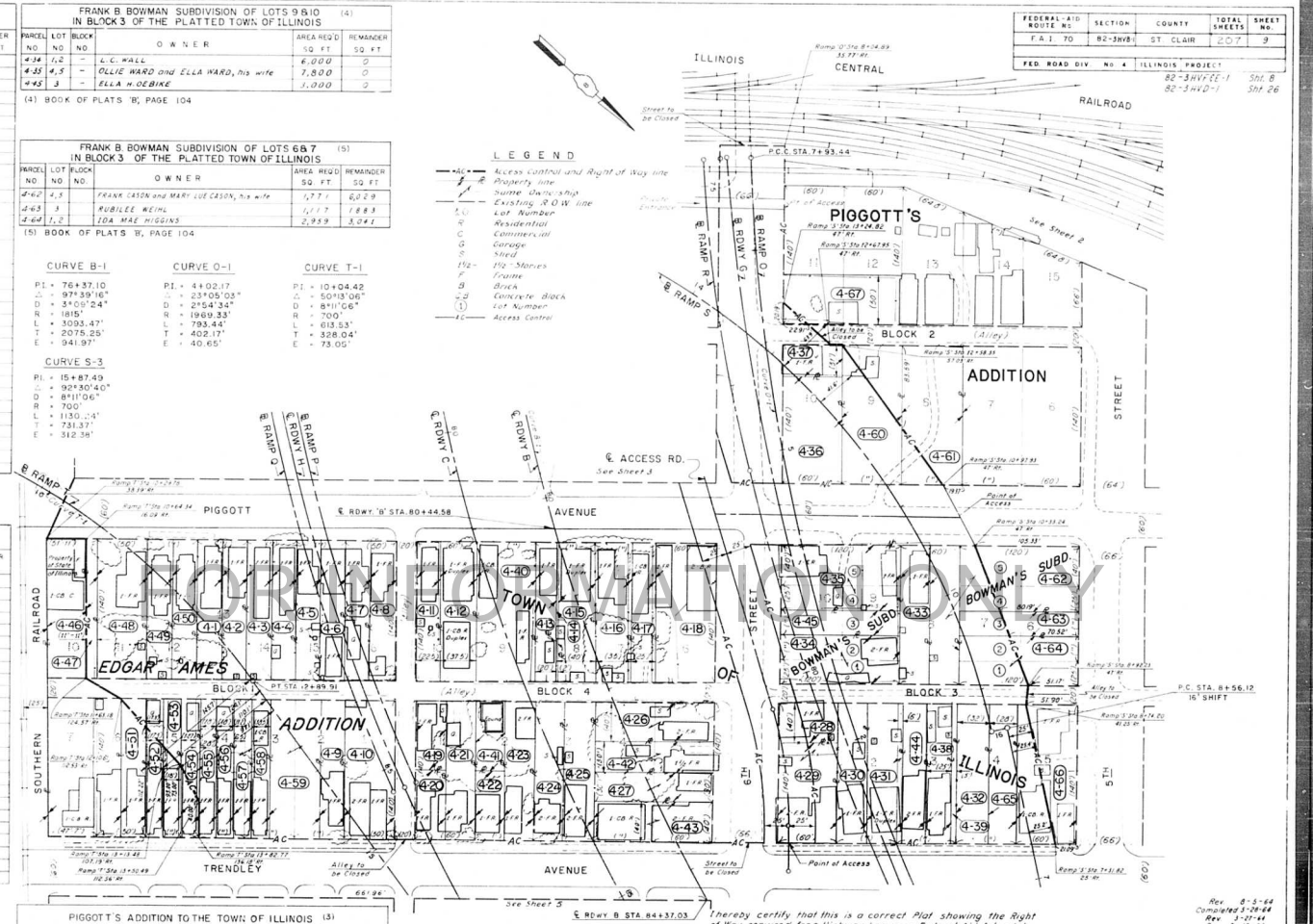
PIGGOTT'S ADDITION TO THE TOWN OF ILLINOIS (3)

PARCEL NO.	LOT NO.	BLOCK NO.	OWNER	AREA REQ'D SQ. FT.	REMAINDER SQ. FT.
4-36	pt 10	2	THOMAS LEWIS and JANICE LEWIS, his wife	6,540	0
4-37	pt 10	2	GEORGE WILEY and SARAH WILEY, his wife	1,860	0
4-60	9	2	ESTATE of P.J. PECAU	3,904	2,496
4-61	8	2	FRANK IRONS and DECILE IRONS, his wife	1,150	7,250
4-67	pt 8, pt 10	2	IRENE REEVES	231	5,769

(3) BOOK OF PLATS 'T' PAGE 117

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

FEDERAL-AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HV8	ST. CLAIR	207	9
FED. ROAD DIV. NO. 4	ILLINOIS PROJECT	82-3HV(EE-1 Sht. 8 82-3HV0-1 Sht. 26		



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 _____

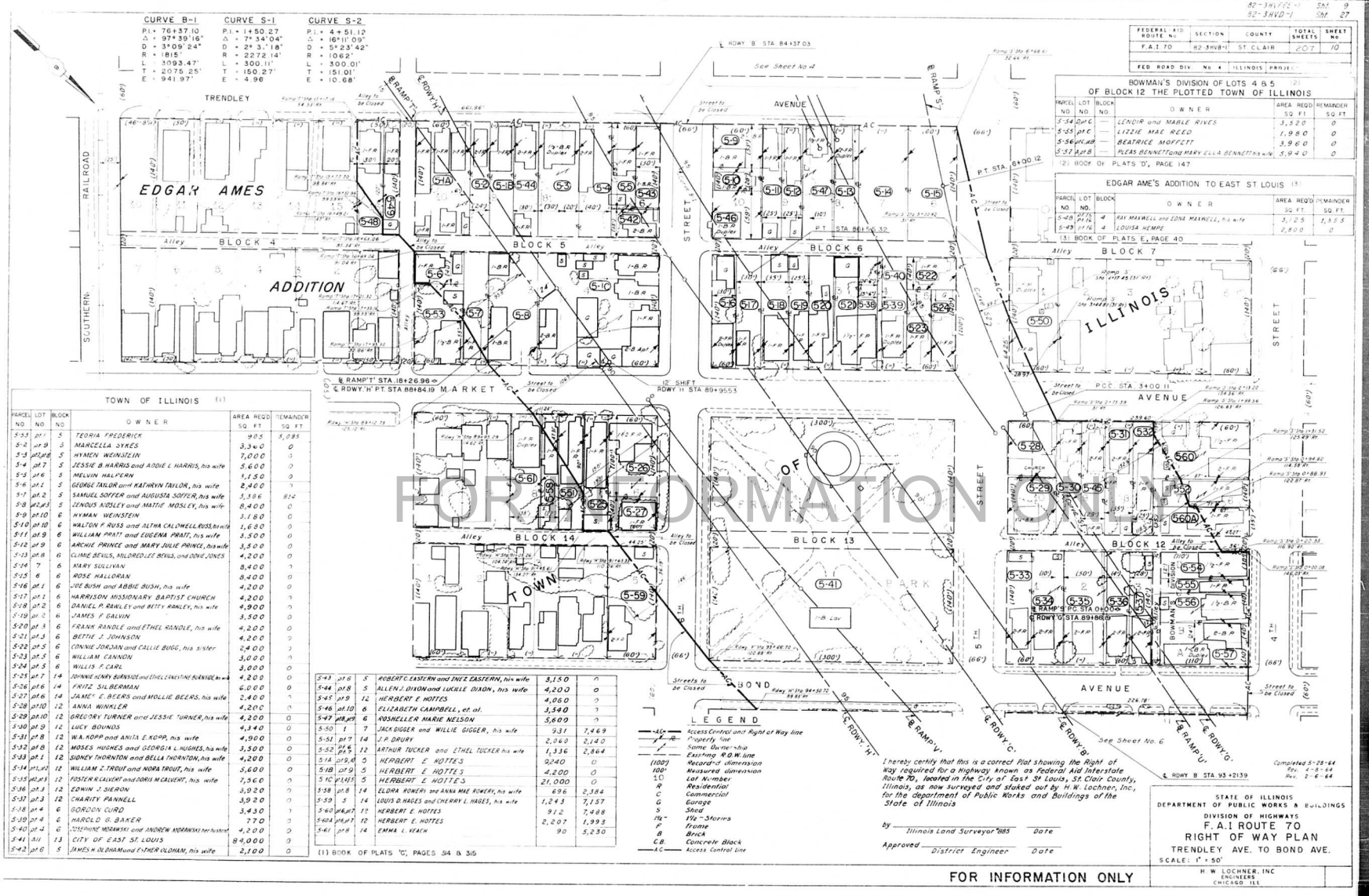
Approved _____ District Engineer Date _____

Rev. 8-5-64
Completed 5-26-64
Rev. 3-17-64
Rev. 3-18-64
Rev. 2-6-64

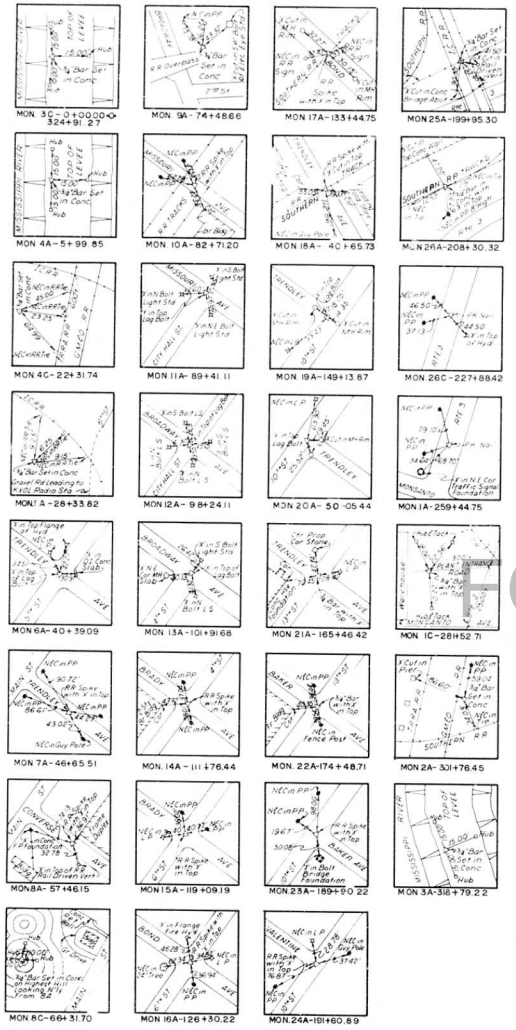
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS
F.A.I. ROUTE 70
RIGHT OF WAY PLAN
I.C.R.R. TO TRENDLEY AVENUE
SCALE: 1" = 50'

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

FOR INFORMATION ONLY



REFERENCE TIES TO TRAVERSE LINE



LIST OF BENCH MARKS

FEDERAL-AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVFEE-1 82-3HVD-1	ST. CLAIR	207	11
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

Sht. 10
Sht. 28

B.M. (S & P) ELEV. 411.010
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. 426.281
R.R. SPIKE IN EAST FACE OF POWER POLE 15' N.W. OF CONCRETE MONUMENT 9A.

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

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

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

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

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

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

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

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

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

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

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

B.M. #21 ELEV. 410.879
R.R. SPIKE IN WEST FACE OF POWER POLE ON N. W. CORNER OF 11TH ST. AND BAKER AVE.

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

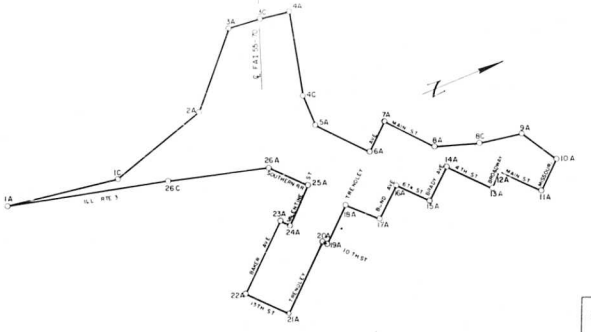
B.M. #23 ELEV. 420.307
X-CUT IN TOP R.R. RAIL DRIVEN VERTICALLY & MARKED MH#6 (41.50' E. OF CONC. MON. 25A)

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

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

B.M. #26 ELEV. 404.196
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	429.178
3A	434.060
3C	434.200
4A	434.537
5A	417.721
18A	415.048

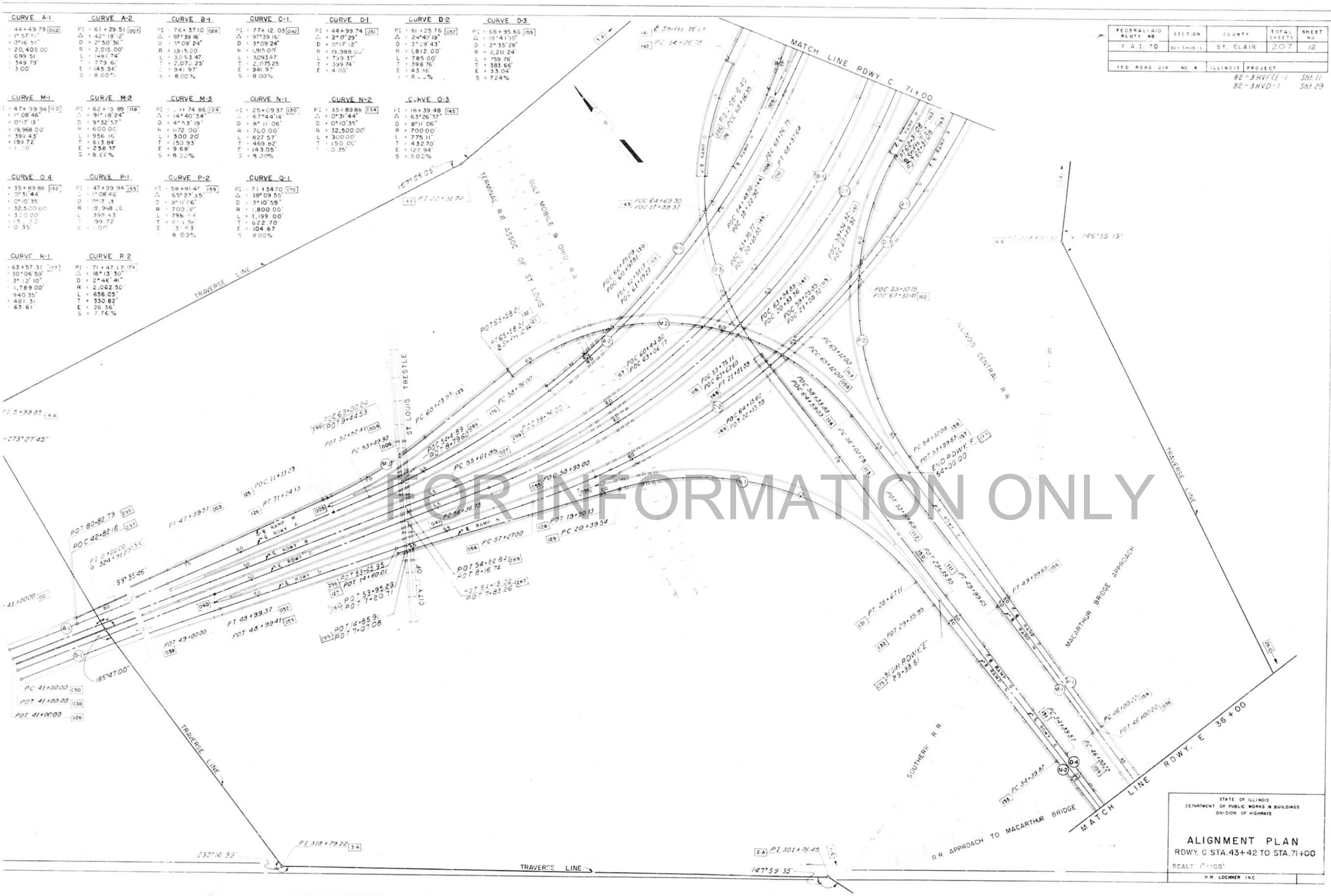


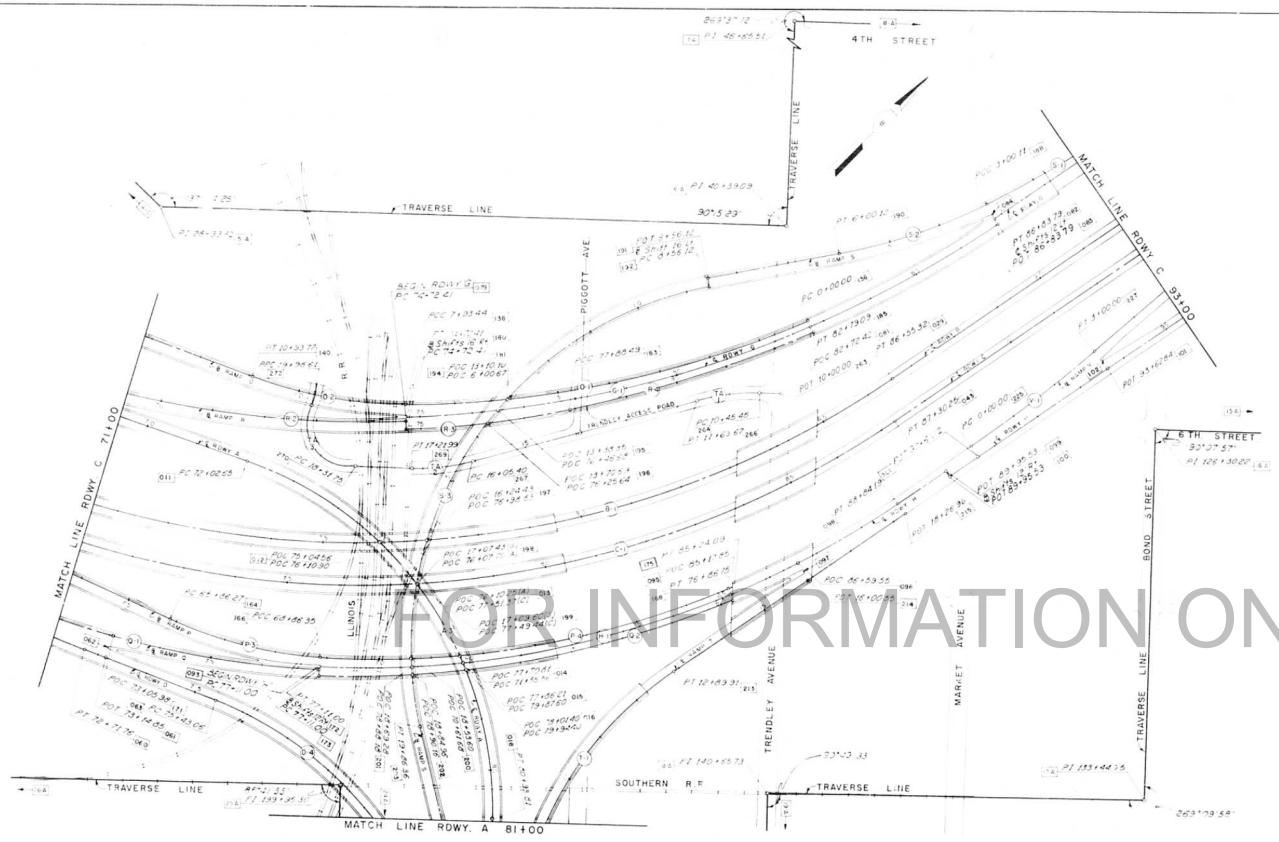
GENERAL PLAN OF TRAVERSE LINE
SCALE: 1" = 1000'

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

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

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





FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVFE-1	ST. CLAIR	207	13
FED. ROAD DIV. NO. 4 ILLINOIS PROJECT				

82-3HVFEE-1 Sht. 12
82-3HVD-1 Sht. 30

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

CURVE B-1
PI = 76+37.10 [018]
Δ = 97°39'16"
D = 3°09'24"
R = 1,815.00'
L = 3,093.47'
T = 2,075.25'
E = 941.97'
S = 8.00%

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

CURVE D-4
PI = 80+23.30 [064]
Δ = 68°54.17"
D = 8°11'06"
R = 700.00'
L = 841.83'
T = 480.24'
E = 148.90'
S = 8.00%

CURVE G-1
PI = 80+94.76 [090]
Δ = 32°23'22"
D = 2°40'26"
R = 2,142.90'
L = 1,211.39'
T = 622.36'
E = 88.55'
S = 8.00%

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

CURVE O-1
PI = 4+02.17 [137]
Δ = 23°05'03"
D = 2°54'34"
R = 1,969.33'
L = 793.44'
T = 402.17'
E = 40.65'

CURVE O-2
PI = 9+45.26 [139]
Δ = 20°42'27"
D = 6°53'44"
R = 831.00'
L = 300.33'
T = 151.82'
E = 13.76'
S = 8.00%

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

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

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

CURVE Q-2
PI = 81+23.90 [174]
Δ = 24°35'11"
D = 3°01'26"
R = 1,894.61'
L = 813.09'
T = 412.90'
E = 44.47'

CURVE R-2
PI = 71+47.17 [175]
Δ = 18°13'30"
D = 2°46'41"
R = 2,062.50'
L = 656.05'
T = 330.82'
E = 26.36'
S = 7.76%

CURVE R-3
PI = 76+30.85 [182]
Δ = 10°03'00"
D = 3°10'59"
R = 1,800.00'
L = 316.08'
T = 158.45'
E = 6.96

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

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

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

CURVE S-3
PI = 15+87.49 [193]
Δ = 92°30'40"
D = 8°11'06"
R = 700.00'
L = 1,130.24'
T = 731.37'
E = 312.38'
S = 8.00%

CURVE T-1
PI = 10+04.42 [212]
Δ = 50°13'06"
D = 8°11'06"
R = 700.00'
L = 613.53'
T = 328.04'
E = 73.05'
S = 8.00%

CURVE V-1
PI = 11+50.16 [220]
Δ = 6°26'56"
D = 2°08'59"
R = 2,665.15'
L = 300.00'
T = 150.16'
E = 4.23'

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

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

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

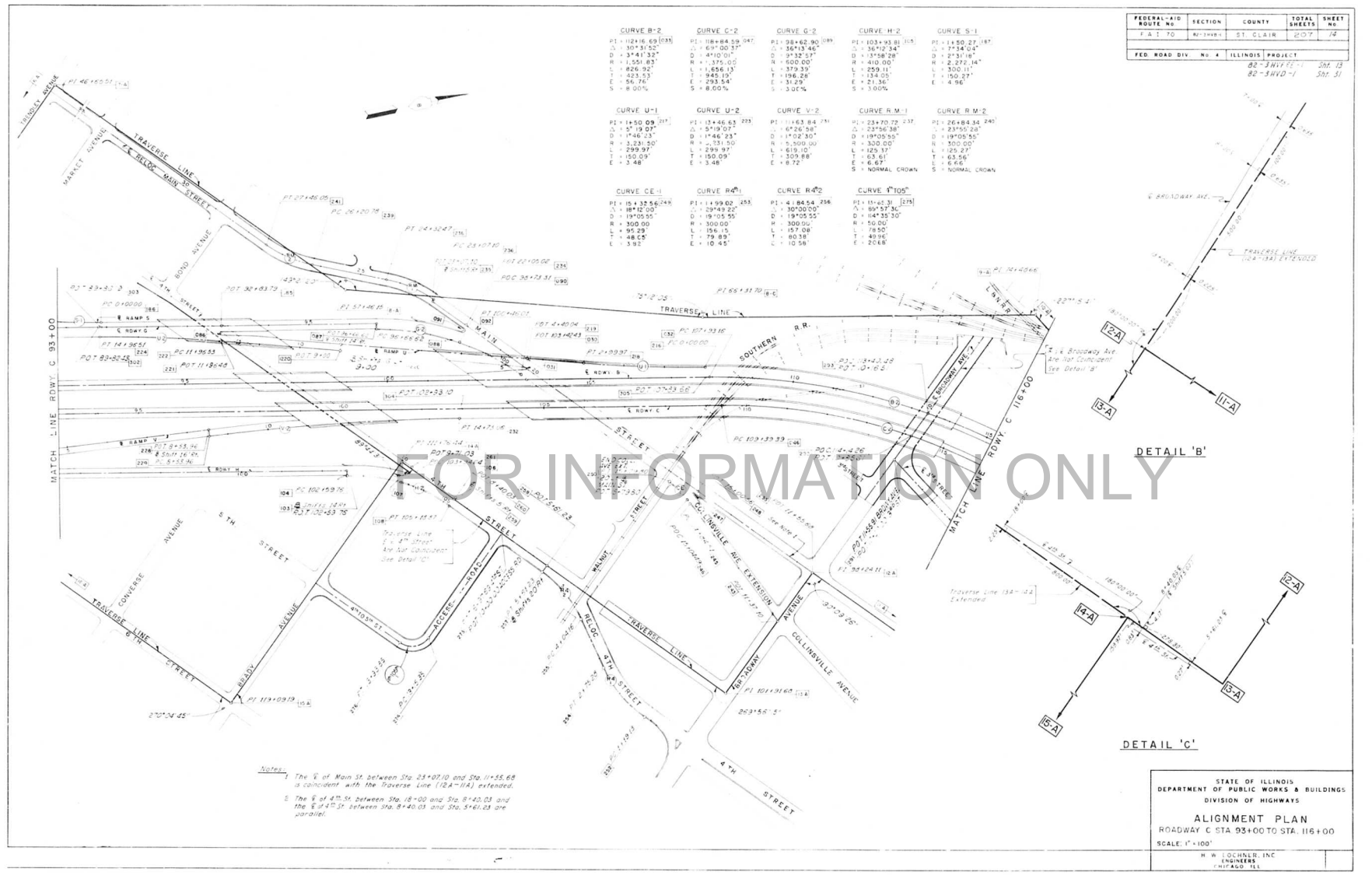
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ALIGNMENT PLAN

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

SCALE: 1" = 100'

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



FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F A I 70	82-3HVD-1	ST. CLAIR	207	14
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		

82-3HVFE-1 Sht. 13
82-3HVD-1 Sht. 31

Notes:
1. The ℄ of Main St. between Sta. 23+07.10 and Sta. 111+55.68 is coincident with the Traverse Line (12A-11A) extended.
2. The ℄ of 4TH St. between Sta. 18+00 and Sta. 8+40.03 and the ℄ of 4TH St. between Sta. 8+48.03 and Sta. 5+61.23 are parallel.

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

ALIGNMENT PLAN

ROADWAY C STA. 93+00 TO STA. 116+00

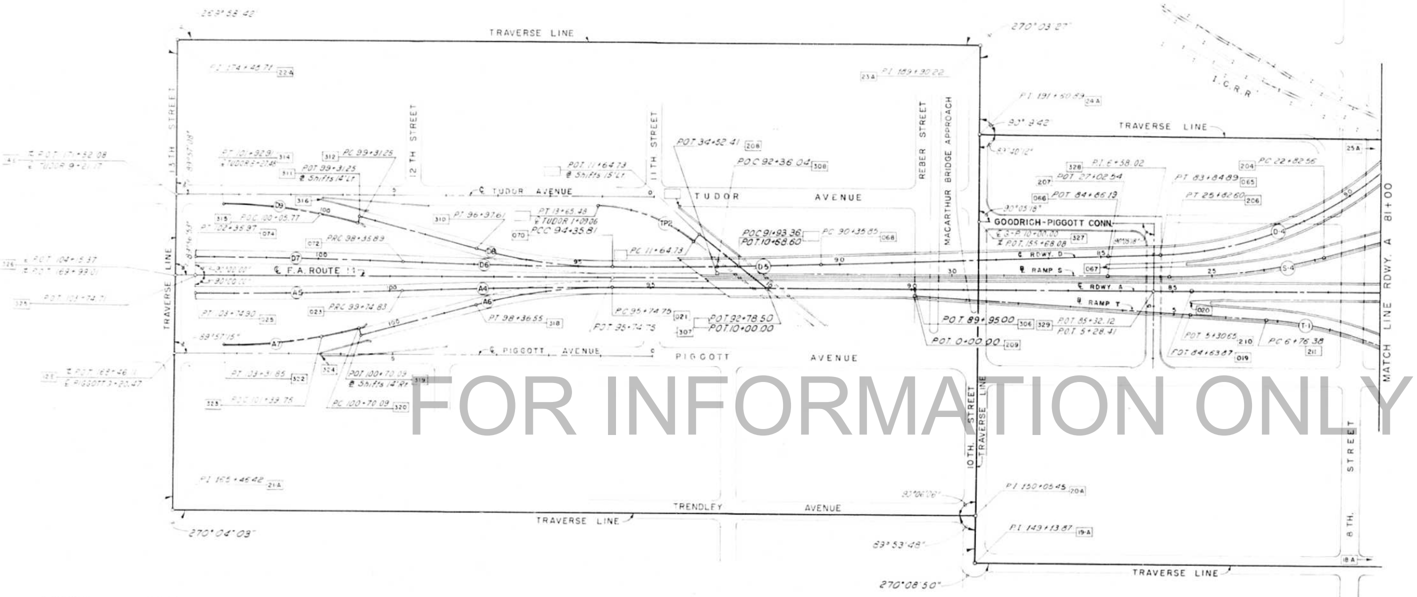
SCALE: 1" = 100'

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

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
F.A.I. 14	82-3HVB-1	ST. CLAIR	207	15
FED. ROAD DIV. No. 4		ILLINOIS	PROJECT	

82-3HVFEE-1 Sht. 14
82-3HVD-1 Sht. 32

CURVE D-4	CURVE D-5	CURVE S-4	CURVE T-1
PI = 80+23.30 [064]	PI = 92+35.85 [069]	PI = 24+33.45 [205]	PI = 10+04.42 [212]
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	CURVE D-8	CURVE A-4	CURVE A-6	CURVE TP-1
PI = 96+35.87 [071]	PI = 95+67.46 [309]	PI = 97+74.81 [022]	PI = 97+06.40 [317]	P.I. = 7+55.04
Δ = 2°-08'-54"	Δ = 15°-00'-00"	Δ = 2°-08'-54"	Δ = 15°-00'-00"	Δ = 38°-19'-51"
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 = 334.50'
T = 200.06'	T = 131.65'	T = 200.06'	T = 131.65'	T = 173.78'
E = 1.88	E = 8.63'	E = 1.88'	E = 8.63'	E = 29.34'
S = NORMAL CROWN		S = NORMAL CROWN		

CURVE TP-2	CURVE D-7	CURVE D-9	CURVE A-5	CURVE A-7
PI = 12+69.03	PI = 100+35.95 [073]	PI = 100+62.83 [313]	PI = 101+74.89 [024]	PI. = 102+01.72 [321]
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 = [illegible]	E = 1.88'	E = 8.62'	E = 1.88'	E = 8.63'
	S = NORMAL CROWN		S = NORMAL CROWN	

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

ALIGNMENT PLAN

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

SCALE: 1" = 100'

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

FEDERAL-AID ROUTE No	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
FAI 70	82-3HVFE-1	ST CLAIR	207	16
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		
		82-3HVFE-1	Sht 15	
		82-3HVD-1	Sht 23	

VE E-1
47+36.28 402
6°27'19"
1°54'35"
3,000.00'
338.00'
169.18'
4.77'

CURVE E-2
P.I. = P.O.C.48+41.82 403
Δ = 6°27'19"
D = 1°10'05"
R = 4,904.72'
L = 552.59'
T = 276.59'
E = 7.79'

CURVE F-1
P.I. = 29+56.22 309
Δ = 7°57'29"
= 2°36'16"
R = 2,200.00'
L = 305.57'
T = 153.03'
E = 5.32'

CURVE F-2
P.I.=POT. 31+43.81 310
Δ = 5°09'19"
D = 1°06'51"
R = 5,142.41'
L = 462.70'
T = 231.50'
E = 5.21

CURVE E.F-1
P.I. = 56+99.25 422
Δ = 18°00'00"
D = 5°43'46"
R = 1,000.00'
L = 314.16'
T = 158.38'
E = 12.47'

CURVE E.F-3
P.I.=P.O.C. 57+62.87 424
Δ = 18°00'00"
D = 7°09'43"
R = 800.00'
L = 251.33'
T = 126.71'
E = 9.97'

CURVE E.F-2
P.I.=P.O.C 56+36.66 421
Δ = 18°00'00"
D = 7°09'43"
R = 800.00'
L = 251.33'
T = 126.71'
E = 9.97'

CURVE N-2
P.I. = 35+89.88 134
Δ = 0°31'44"
D = 0°10'35"
R = 32,500.00
L = 300.00'
T = 150.00'
E = 0.35'

CURVE O-4
P.I. = 35+89.88 134
Δ = 0°31'44"
D = 0°10'35"
R = 32,500.00'
L = 300.00'
T = 150.00'
E = 0.35'

CURVE W-1
P.I. = 1+53.55 463
Δ = 42°00'00"
D = 14°19'26"
R = 400.00'
L = 293.22'
T = 153.55'
E = 28.46'

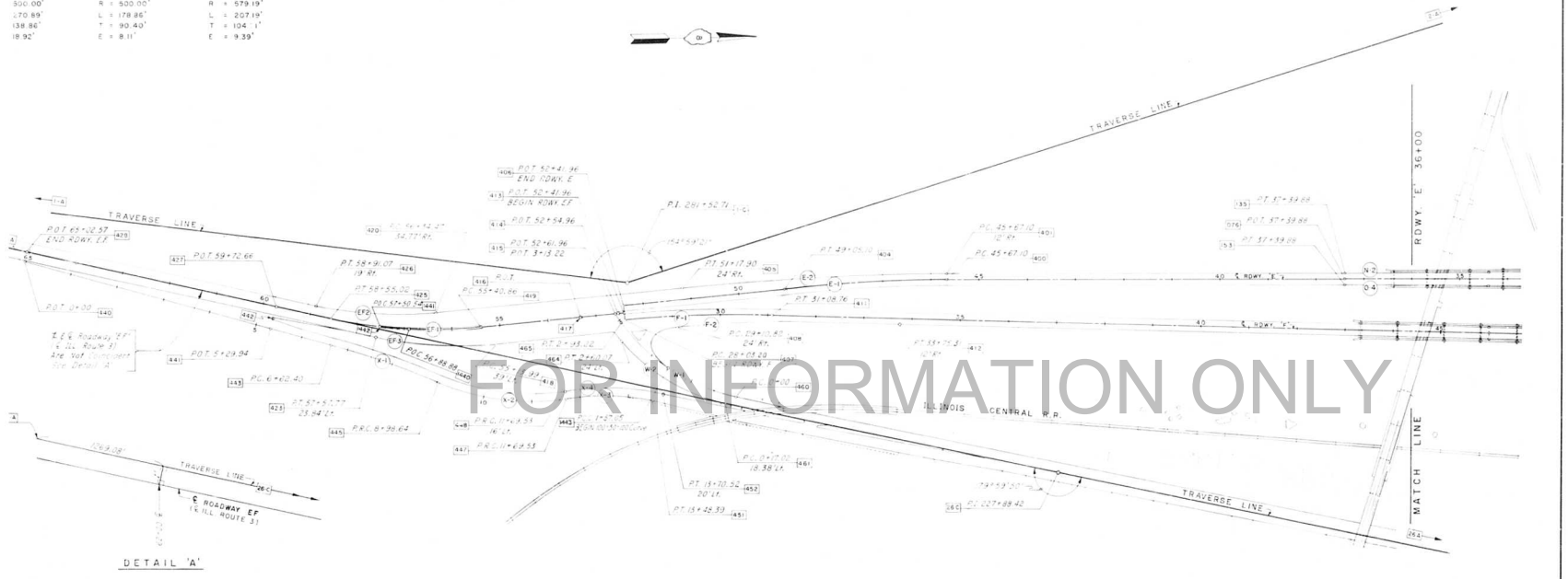
CURVE W-2
P.I.=P.O.C 1+38.49 462
Δ = 37°15'07"
D = 14°31'13"
R = 394.59'
L = 256.55'
T = 132.95'
E = 21.81'

CURVE X-1
P.I. = 7+80.69 444
Δ = 7°31'11"
D = 3°10'59"
R = 1,800.00'
L = 236.24'
T = 118.29'
E = 3.88'

VE X-2
10+37.50 446
31°02'30"
11°27'33"
500.00'
270.89'
138.86'
18.92'

CURVE X-3
P.I. = 12+59.93 449
Δ = 20°29'46"
D = 11°27'33"
R = 500.00'
L = 178.86'
T = 90.49'
E = 8.11'

CURVE X-4
P.I. = P.O.C.12+69.64 450
Δ = 20°29'46"
D = 9°55'33"
R = 579.19'
L = 207.19'
T = 104.1'
E = 9.39'



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

ALIGNMENT PLAN

ROADWAY E STA. 36+00 TO STA. 65+02.57

SCALE: 1"=100'

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

FEDERAL-AID ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
FAI 70	82-3HVB-1	ST CLAIR	207	17
			*	
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		

82-3HVFE-1 Sht. 16
82-3HVD-1 Sht. 34

TRAVERSE POINT LOCATIONS

POINT CODE NO	COORDINATE NORTH	COORDINATE EAST	DESCRIPTION
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	10,4[illegible].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	35,211.759	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"

POINT CODE NO	COORDINATE NORTH	COORDINATE EAST	DESCRIPTION
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	9,140.648	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	32,641.747	P.O.C. RDWY. "A" NOSE 19' LT.
009	9,103.782	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 "Q"
017	9,670.926	33,450.174	P.I. CURVE A-3
018	9,289.695	33,800.071	P.T. CURVE A-3
019	9,017.044	34,050.227	P.O.T. RDWY. "A" NOSE 20' LT.
020	9,030.566	34,064.963	NOSE RDWY. "A" & RAMP "T"
021	8,198.565	34,801.328	P.C. CURVE A-4 & 5
022	8,051.162	34,936.596	P.I. CURVE A-4
023	7,968.935	35,017.295	P.R. C. CURVE A-4 & 5
024	7,766.707	35,217.393	P.I. CURVE A-5
025	7,619.505	35,353.261	P.T. CURVE A-5

ROADWAY "B"

POINT CODE NO	COORDINATE NORTH	COORDINATE EAST	DESCRIPTION
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"

POINT CODE NO	COORDINATE NORTH	COORDINATE EAST	DESCRIPTION
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"

POINT CODE NO	COORDINATE NORTH	COORDINATE EAST	DESCRIPTION
050	9,478.749	29,984.979	P.C. CURVE D-1; BEGIN RDWY. "D"
051	9,350.038	30,363.427	P.I. CURVE D-1
052	9,206.298	30,736.426	P.T. CURVE D-1
053	9,206.281	30,736.470	P.O.T. RDWY. "D" NOSE 20' LT.
054	8,908.693	31,508.701	P.C. CURVE D-2
055	8,855.631	31,668.038	P.O.C. RDWY. "D" NOSE 20' RT.
056	8,836.384	31,662.605	NOSE RDWY "D" & RAMP "N"
057	8,765.306	31,880.787	P.I. CURVE D-2
058	8,791.367	32,278.692	P.C.C. CURVE D-2 & 3; BEGIN RAMP "Q" 12' LT.
059	8,816.441	32,661.531	P.I. CURVE D-3
060	8,969.015	33,013.548	P.T. CURVE D-3
061	8,986.151	33,053.085	P.O.T. RDWY "D" NOSE 20' LT.
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	7,571.577	35,301.687	P.T. CURVE D-7

ROADWAY "E"

POINT CODE NO	COORDINATE NORTH	COORDINATE EAST	DESCRIPTION
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"

POINT CODE NO	COORDINATE NORTH	COORDINATE EAST	DESCRIPTION
077	8,357.753	32,276.740	NOSE & END ROADWAY "F"
078	7,559.424	32,228.611	P.O.T. RDWY. "F" BEGIN RAMP "M" 12' LT. BEGIN RAMP "P" 12' RT.

ROADWAY "G"

POINT CODE NO	COORDINATE NORTH	COORDINATE EAST	DESCRIPTION
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"

POINT CODE NO	COORDINATE NORTH	COORDINATE EAST	DESCRIPTION
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
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	11,737.232	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"

POINT CODE NO	COORDINATE NORTH	COORDINATE EAST	DESCRIPTION
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	31,964.552	P.O.C. INT. ℄'s RAMP "M" & RDWY "A"
120	9,114.796	31,943.187	P.O.C. INT. ℄'s RAMP "M" & RAMP "R"
121	9,185.002	31,671.824	P.T. CURVE M-2 & SHIFTS 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"

POINT CODE NO	COORDINATE NORTH	COORDINATE EAST	DESCRIPTION
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	82-3HV8-1	ST. CLAIR	207	18
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		

82-3HVFEE-1 Sht. 17
82-3HVD-1 Sht. 35

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 6' LT.
142	9,428.325	32,597.507	P.C. CURVE O-3
143	9,186.777	32,306.954	P.O.C. INT. ℄ of RAMP "O" & RAMP "R"
144	9,158.117	32,288.570	P.O.C. INT. ℄ of 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. ℄ of RAMP "O" & RDWY "B"
147	8,917.104	32,194.932	P.O.C. INT. ℄ of RAMP "O" & RDWY "C"
148	8,819.184	32,183.772	P. T. CURVE O-3
149	8,787.628	32,182.395	P.O.C. INT. ℄ of RAMP "O" & RDWY. "D"
150	8,062.128	32,151.022	P.O.T. RAMP "O" NOSE 16' 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	32,240.590	P.C. CURVE P-1 BEGIN RAMP "P"
155	7,758.061	32,252.508	P.I. CURVE P-1
156	7,957.140	32,268.612	P. T. CURVE P-1
157	8,155.830	32,300.664	P.O.T. RAMP "P" NOSE 24' LT.
158	8,188.180	32,303.263	P.C. CURVE P-2
159	8,836.115	32,339.273	P.I. CURVE P-2
160	8,816.572	32,495.573	P.O.C. INT. ℄ of RAMP "P" & RDWY. "D"
161	8,814.512	32,513.601	P.O.C. INT. ℄ of RAMP "P" & RAMP "Q"
162	8,989.851	32,761.518	P. T. CURVE P-2 ℄ SHIFTS 16' LT. TO 173
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	9,278.026	33,346.825	P.C.C. CURVE P-3 & 4 NOSE 18' RT.
167	9,945.681	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	8,844.047	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	9,331.309	33,673.910	P.I. CURVE Q-2
175	9,412.311	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	9,592.630	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	32,918.922	P.I. CURVE R-2
180	9,717.006	33,145.821	RAMP "R" P.T. CURVE R-2 NOSE 8' LT. ℄ SHIFTS 16' RT. TO 181
181	9,705.989	33,157.423	P.C. CURVE R-3
182	9,820.889	33,266.529	P.I. CURVE R-3
183	9,953.082	33,353.884	P.C.C. CURVE R-3 & 4
184	10,158.406	33,489.564	P.I. CURVE R-4
185	10,386.383	33,582.266	P.T. CURVE R-4 END RAMP "R"
			RAMP "S"
186	11,085.817	33,723.510	P.C. CURVE S-1 BEGIN RAMP "S"
187	10,938.369	33,694.504	P.I. CURVE S-1
188	10,796.025	33,646.333	P.C.C. CURVE S-1 & 2 NOSE 24' LT.
189	10,652.983	33,597.925	P.I. CURVE S-2
190	10,529.104	33,511.562	P.T. CURVE S-2
191	10,319.101	33,365.157	P.O.T. ℄ SHIFTS 16' LT. TO 192
192	10,309.951	33,378.283	P.C. CURVE S-3
193	9,709.987	32,960.015	P.I. CURVE S-3
194	9,881.823	33,253.063	P.O.C. INT. ℄ of RAMP "S" & RAMP "O"
195	9,853.629	33,254.754	P.O.C. INT. ℄ of RAMP "S" & RDWY "G"
196	9,821.463	33,258.085	P.O.C. INT. ℄ of RAMP "S" & RAMP "R"
197	9,580.943	33,334.475	P.O.C. INT. ℄ of RAMP "S" & RDWY "B"
198	9,510.142	33,377.694	P.O.C. INT. ℄ of RAMP "S" & RDWY "A"
199	9,508.367	33,378.932	P.O.C. INT. ℄ of RAMP "S" & RDWY "C"
200	9,399.660	33,472.994	P.O.C. INT. ℄ of RAMP "S" & RAMP "P"
201	9,389.447	33,484.537	P.O.C. INT. ℄ of RAMP "S" & RDWY. "H"
202	9,378.639	33,496.311	P.O.C. INT. ℄ of RAMP "S" & RAMP "Q"
203	9,318.407	33,577.726	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	8,631.827	34,418.185	P.O.T. BEGIN RAMP "T"
210	9,015.699	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	33,846.181	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.
			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	34,451.758	P.O.C. COLLINSVILLE EXT. & NOSE 19° RT.
247	12,436.280	34,442.761	NOSE COLLINSVILLE EXT. & MAIN ST.
248	12,444.172	34,435.109	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	34,968.914	P.C. CURVE R4-1
253	12,140.700	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	9,754.163	33,289.097	P.C. CURVE T.A.-2
268	9,703.759	33,259.329	P.I. CURVE T.A.-2
269	9,653.844	33,216.275	P. T. CURVE T.A.-2
270	9,589.223	33,135.785	P.C. CURVE T.A.-3
271	9,511.381	33,051.821	P.I. CURVE T.A. -3
272	9,608.266	32,990.809	P.R.C. CURVE T.A.-3
			4TH TO 5TH STREET ACCESS ROAD
273	11,945.082	34,434.874	℄ INTS. OF 4TH ST. & 4TH TO 5TH ACCESS ROAD
274	11,712.879	34,648.240	P.C. 4TH TO 5TH ACCESS ROAD
275	11,676.088	34,682.046	P.I. 4TH TO 5TH ACCESS ROAD
276	11,642.256	34,645.280	P. T. 4TH TO 5TH ACCESS ROAD
			RELOCATED 2ND STREET
278	13,736.915	34,914.939	℄ INTS. OF MISSOURI & RELOC. 2ND ST.
279	13,671.814	34,806.155	P.C.-1 RELOCATED 2ND STREET
280	13,619.767	34,752.604	P.I. -1 RELOCATED 2ND STREET
281	13,575.693	34,721.147	P.T.-1 RELOCATED 2ND STREET
282	13,511.733	34,690.356	P.C.-2 RELOCATED 2ND STREET
283	13,461.896	34,650.117	P.I.-2 RELOCATED 2ND STREET
284	13,420.563	34,580.958	P.T.-2 RELOCATED 2ND STREET
			℄ INTERSECTIONS OF CITY OF ST LOUIS 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.
100	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	82-3HVD-1	ST. CLAIR	207	19
FED. ROAD DIV. No. 4	ILLINOIS	PROJECT		
		82-3HVFEE-1	Sht 18	
		82-3HVD-1	Sht 36	

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 "T" 24' RT.
303	11,083.501	33,735.284	P.O.T. RDWY. "G" BEGIN RAMP "S" 12' L
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 B.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	P.I. 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	34,231.390	P.O.T. G-P CONN., P.O.T. TRAVERSE LINE
328	8,879.209	34,000.796	P.I. GOODRICH-PIGGOTT CONNECTOR
329	8,960.756	34,096.375	P.O.T. G-P CONN., P.O.T. ROADWAY "A"

POINT CODE NO	COORDINATE NORTH	COORDINATE EAST	DESCRIPTION
			MISCELLANEOUS POINTS
500	9,997.956	33,609.579	P.O.C. RDWY "B" STA. 82+00
501	9,966.235	33,680.852	P.O.C. RDWY "C" STA. 83+00
502	10,816.335	33,828.469	P.O.T. RDWY "B" STA. 90+50
503	10,786.511	33,893.944	P.O.T. RDWY "C" STA. 91+50
504	11,248.061	33,913.397	P.O.T. RDWY "B" STA. 94+90
505	11,218.237	33,978.871	P.O.T. RDWY "C" STA. 95+90
506	11,699.411	34,002.184	P.O.T. RDWY "B" STA. 99+50
507	11,718.647	34,077.310	P.O.T. RDWY "C" STA. 101+00
508	12,140.949	34,089.042	P.O.T. RDWY "B" STA. 104+00
509	12,160.185	34,164.167	P.O.T. RDWY "C" STA. 105+50
510	12,911.113	34,294.588	P.O.C. RDWY "B" STA. 112+00
511	12,927.434	34,377.118	P.O.C. RDWY "C" STA. 113+50
512	13,282.307	34,650.548	P.O.C. RDWY "C" STA. 118+00
513	13,550.020	34,843.441	P.O.C. RDWY "B" STA. 120+50
514	13,509.079	34,978.343	P.O.C. RDWY "C" STA. 122+00
515	13,800.129	35,263.625	P.O.C. RDWY "B" STA. 125+40

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	℄ PTS. OF RDWY "EF" AND RAMP "W"
416	5,676.837	32,133.611	P.O.T. NOSE P.T. 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 (6 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

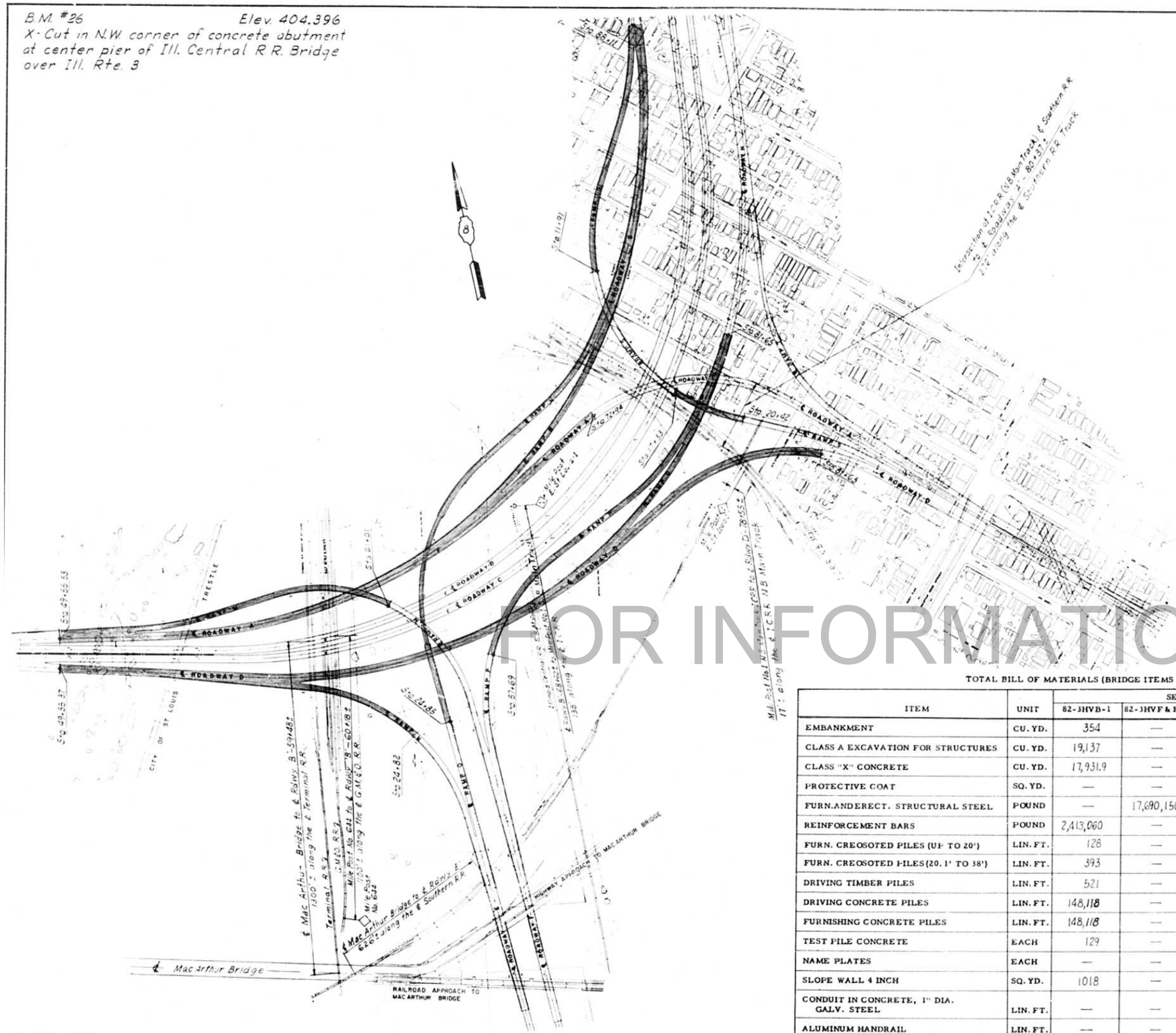
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILL.

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

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-1	ST. CLAIR	207	20
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		
	82-3HVF & E-1			19
	82-3HVD-1			54

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



KEY PLAN

DESIGNED BY RMR
DRAWN BY GWG
CHECKED BY RMR
APPROVED BY KA

TOTAL BILL OF MATERIALS (BRIDGE ITEMS ONLY)

ITEM	UNIT	SECTION 82-3HVB-1	SECTION 82-3HVF & E-1	SECTION 82-3HVD-1	TOTAL
EMBANKMENT	CU. YD.	354	—	—	354
CLASS A EXCAVATION FOR STRUCTURES	CU. YD.	19,137	—	—	19,137
CLASS "X" CONCRETE	CU. YD.	17,931.9	—	15,159.3	33,091.2
PROTECTIVE COAT	SQ. YD.	—	—	59,203	59,203
FURN. AND ERECT. STRUCTURAL STEEL	POUND	—	17,690,150	—	17,690,150
REINFORCEMENT BARS	POUND	2,413,060	—	3,956,230	6,369,290
FURN. CREOSOTED PILES (UP TO 20')	LIN. FT.	128	—	—	128
FURN. CREOSOTED PILES (20.1' TO 38')	LIN. FT.	393	—	—	393
DRIVING TIMBER PILES	LIN. FT.	521	—	—	521
DRIVING CONCRETE PILES	LIN. FT.	148,118	—	—	148,118
FURNISHING CONCRETE PILES	LIN. FT.	148,118	—	—	148,118
TEST PILE CONCRETE	EACH	129	—	—	129
NAME PLATES	EACH	—	—	4	4
SLOPE WALL 4 INCH	SQ. YD.	1018	—	—	1018
CONDUIT IN CONCRETE, 1" DIA. GALV. STEEL	LIN. FT.	—	—	364	364
ALUMINUM HANDRAIL	LIN. FT.	—	—	26,188	26,188
BRIDGE SEAT SEALANT •	L. SUM	1	—	—	1
PAINTING STRUCTURAL STEEL	POUND	—	—	17,690,150	17,690,150

CLASS A EXCAVATION FOR STRUCTURES INCLUDES EXCAVATION FOR SLOPE WALL.
• BRIDGE SEAT SEALANT TO BE USED AT ABUTMENTS AND PIERS AT EXPANSION 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 SURFACE OF THE EXPANSION GUARD INACCESSIBLE AFTER ERECTION SHALL BE GIVEN TWO SHOP COATS OF RED LEAD PAINT, THE CONTACT SURFACES SHALL BE GIVEN ONE COAT OF RED LEAD PAINT. ANCHOR STUDS SHALL NOT BE PAINTED.

EXPANSION GUARDS ARE INCLUDED IN THE QUANTITY OF STRUCTURAL STEEL. ESTIMATED WEIGHT 185,040 LBS.

EXCEPT AS OTHERWISE PROVIDED, ALL STRUCTURAL STEEL SHALL RECEIVE ONE (1) SHOP COAT OF RED LEAD PAINT AND TWO FIELD COATS OF GREEN PAINT. SEE ARTICLE 56.1 TO 56.5 INCLUSIVE OF THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

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

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

CURVED GIRDERS, INTERMEDIATE FLOOR BEAMS AND 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 FOR MS WILL NOT BE PERMITTED IN FORMING THE CONCRETE FLOOR.

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 HS20-44 & Alt.

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

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

KEY PLAN, GENERAL NOTES AND BILL OF MATERIAL

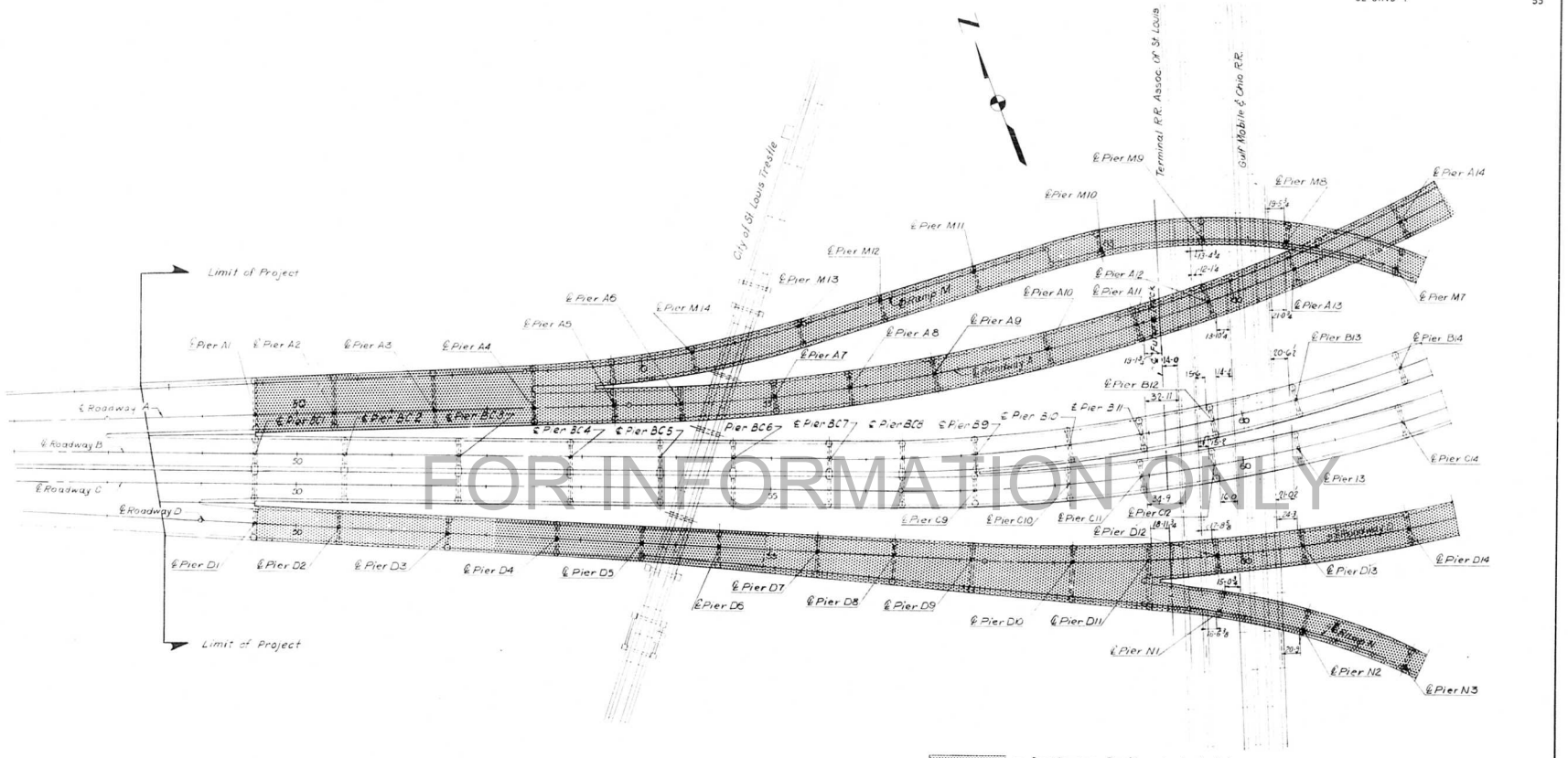
POPLAR STREET BRIDGE APPROACHES

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

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

SHEET 1 OF 526

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F A I — 70	82-3HVB-1	ST. CLAIR	207	21
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		
	82-3HVF & E-1			20
	82-3HVD-1			55



▨ – Indicates Portion included in Sections 82-3HVB-1, 82-3HVF & E-1 and 82-3HVD-1.

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

GENERAL PLAN

POPLAR STREET BRIDGE APPROACHES

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

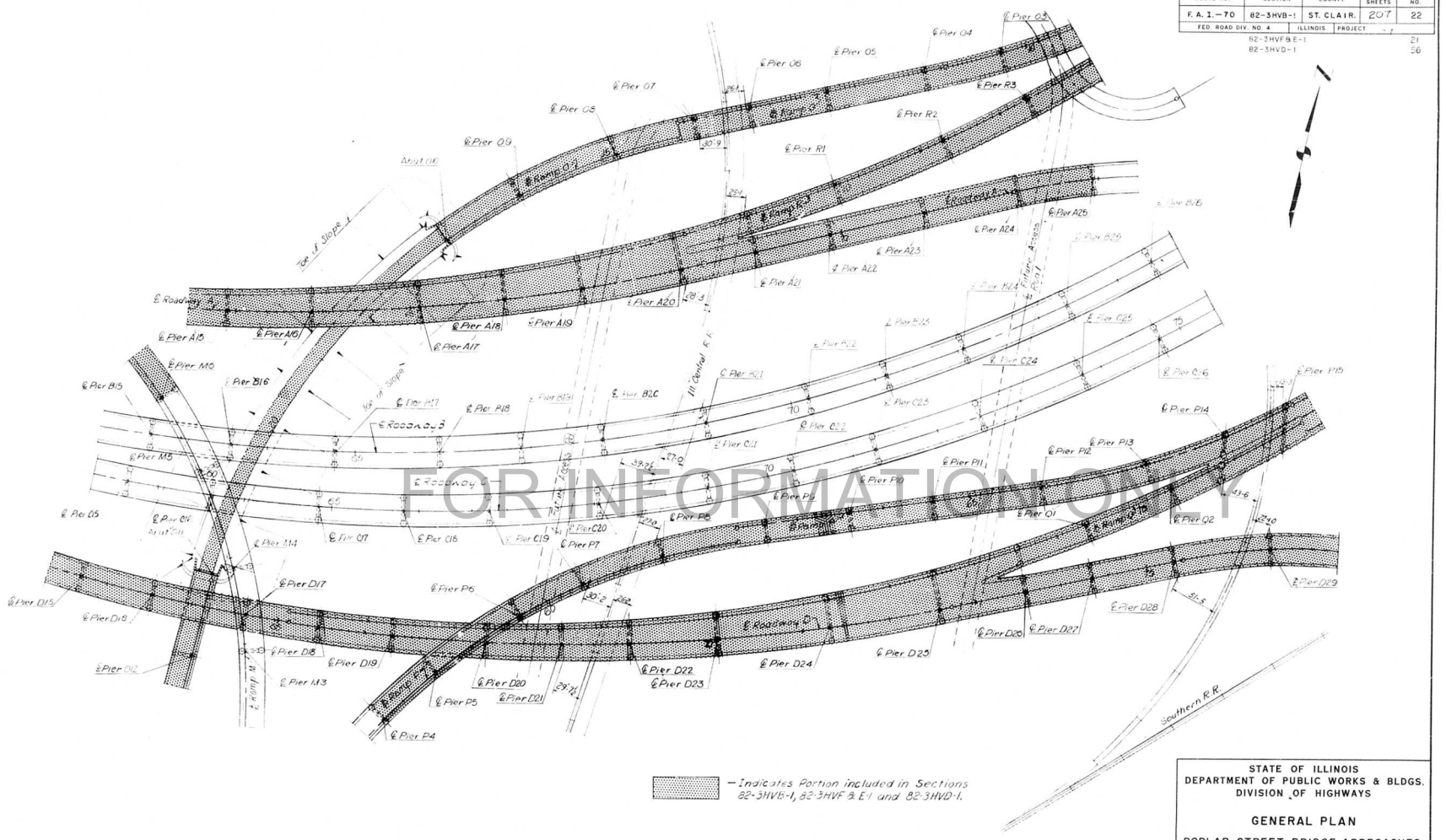
F. A. I. RT. 70 ST. CLAIR CO.

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

SHEET 2 OF 526

DESIGNED BY RMR
DRAWN BY JH
CHECKED BY RMR
APPROVED BY KA

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82-3HVB-1	ST. CLAIR	207	22
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		
	82-3HVF & E-1			21
	82-3HVD-1			56



— Indicates Portion included in Sections 82-3HVB-1, 82-3HVF & E-1 and 82-3HVD-1.

DESIGNED BY RMR
DRAWN BY RL
CHECKED BY RMR
APPROVED BY RA

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

GENERAL PLAN

POPLAR STREET BRIDGE APPROACHES

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

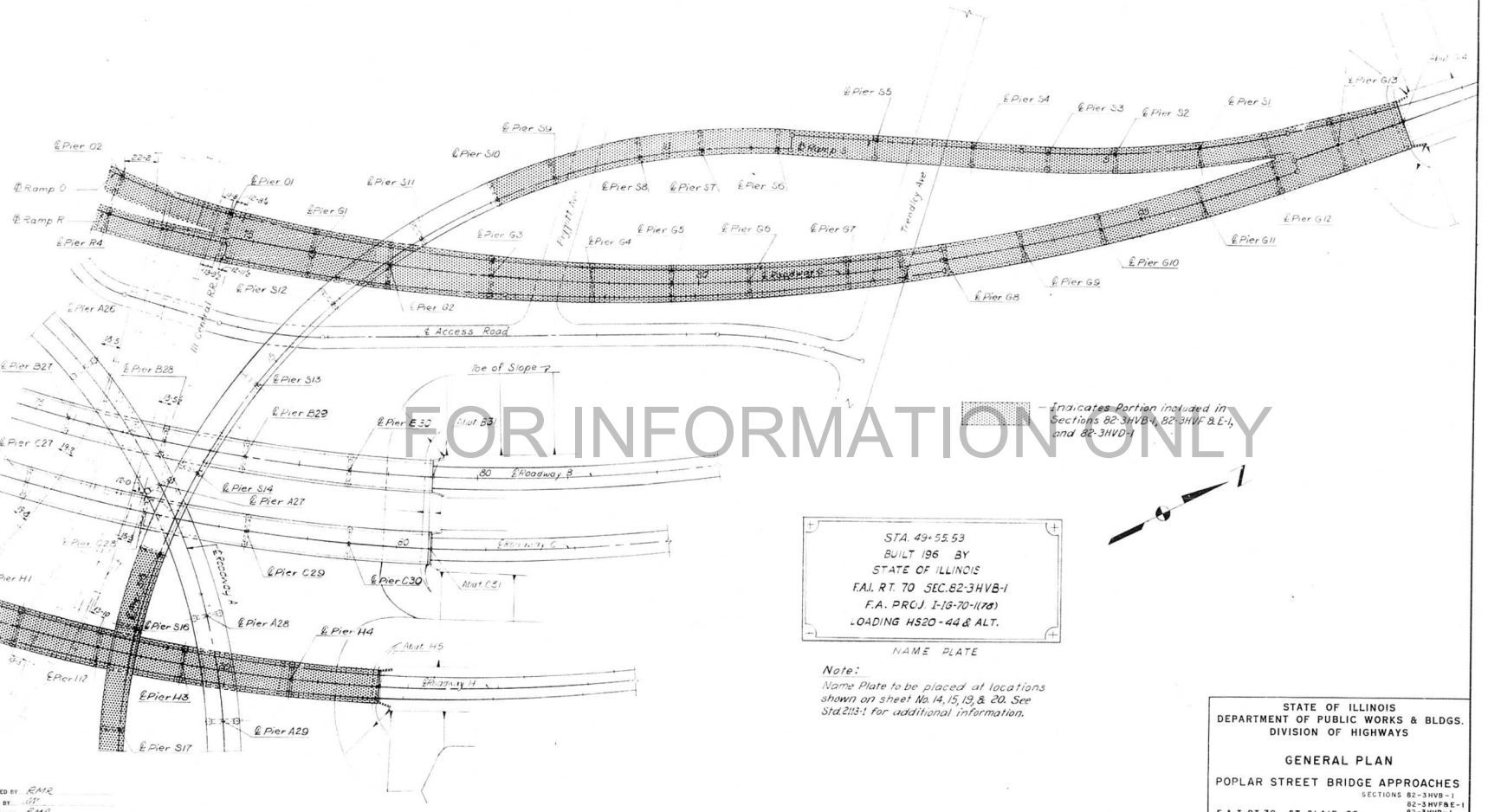
F.A.I. RT. 70 ST. CLAIR CO.

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

SHEET 3 OF 526

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I.—70	82-3HVB-1	ST. CLAIR	207	23
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

82-3HVF&E-1 22
82-3HVD-1 57



— Indicates Portion included in Sections 82-3HVB-1, 82-3HVF & E-1, and 82-3HVD-1

STA. 49+55.53
BUILT 196 BY
STATE OF ILLINOIS
F.A.I. RT. 70 SEC. 82-3HVB-1
F.A. PROJ. I-16-70-1(78)
LOADING HS20-44 & ALT.

NAME PLATE

Note:
Name Plate to be placed at locations shown on sheet No. 14, 15, 19, & 20. See Std. 2113-1 for additional information.

DESIGNED BY RMR
DRAWN BY
CHECKED BY RMR
APPROVED BY RA

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

GENERAL PLAN

POPLAR STREET BRIDGE APPROACHES

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

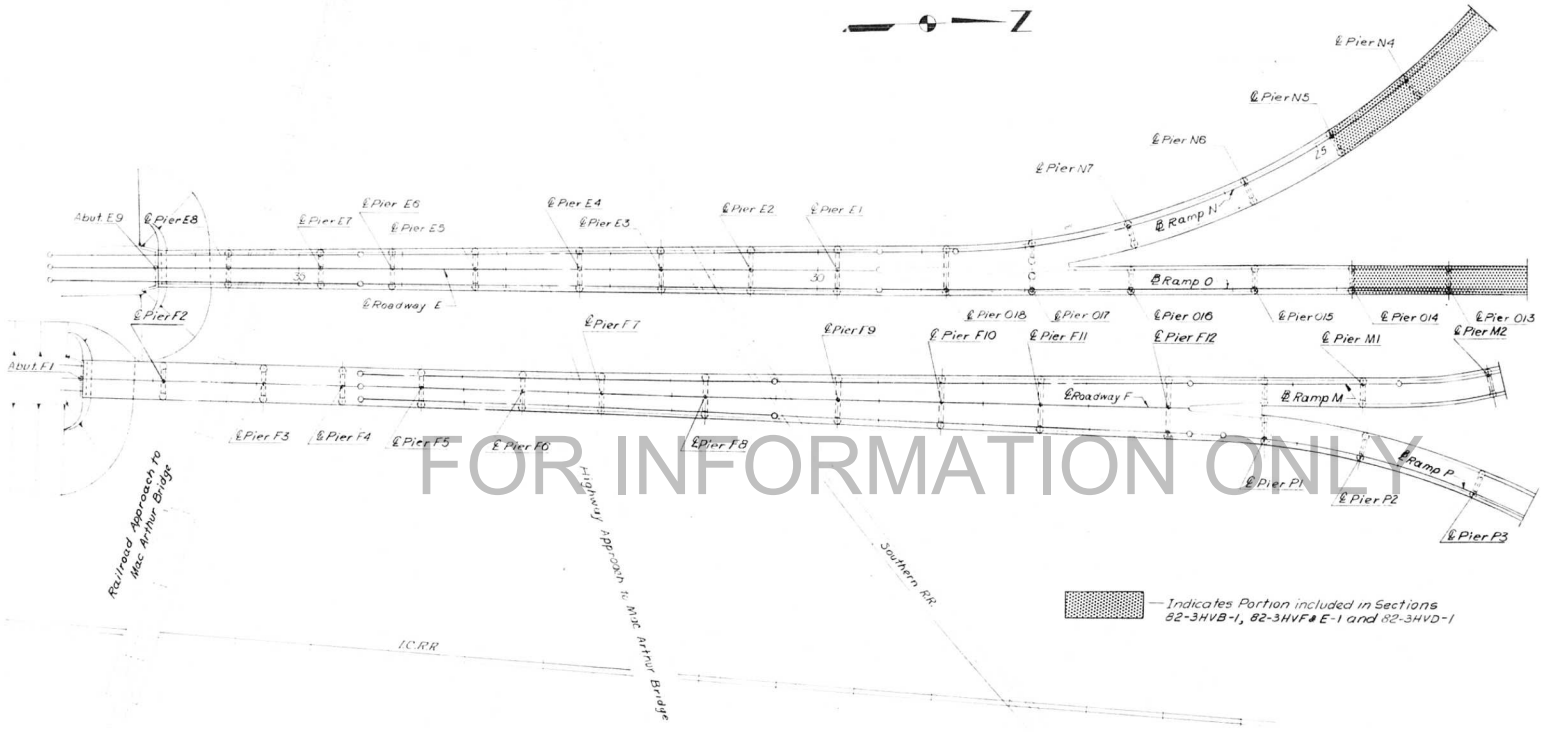
F. A. I. RT. 70 ST. CLAIR CO.

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

SHEET 4 OF 526

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F A I — 70	82-3HVB-1	ST. CLAIR	207	24
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

82-3HVF & E-1 23
82-3HVD-1 58



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

GENERAL PLAN

POPLAR STREET BRIDGE APPROACHES

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

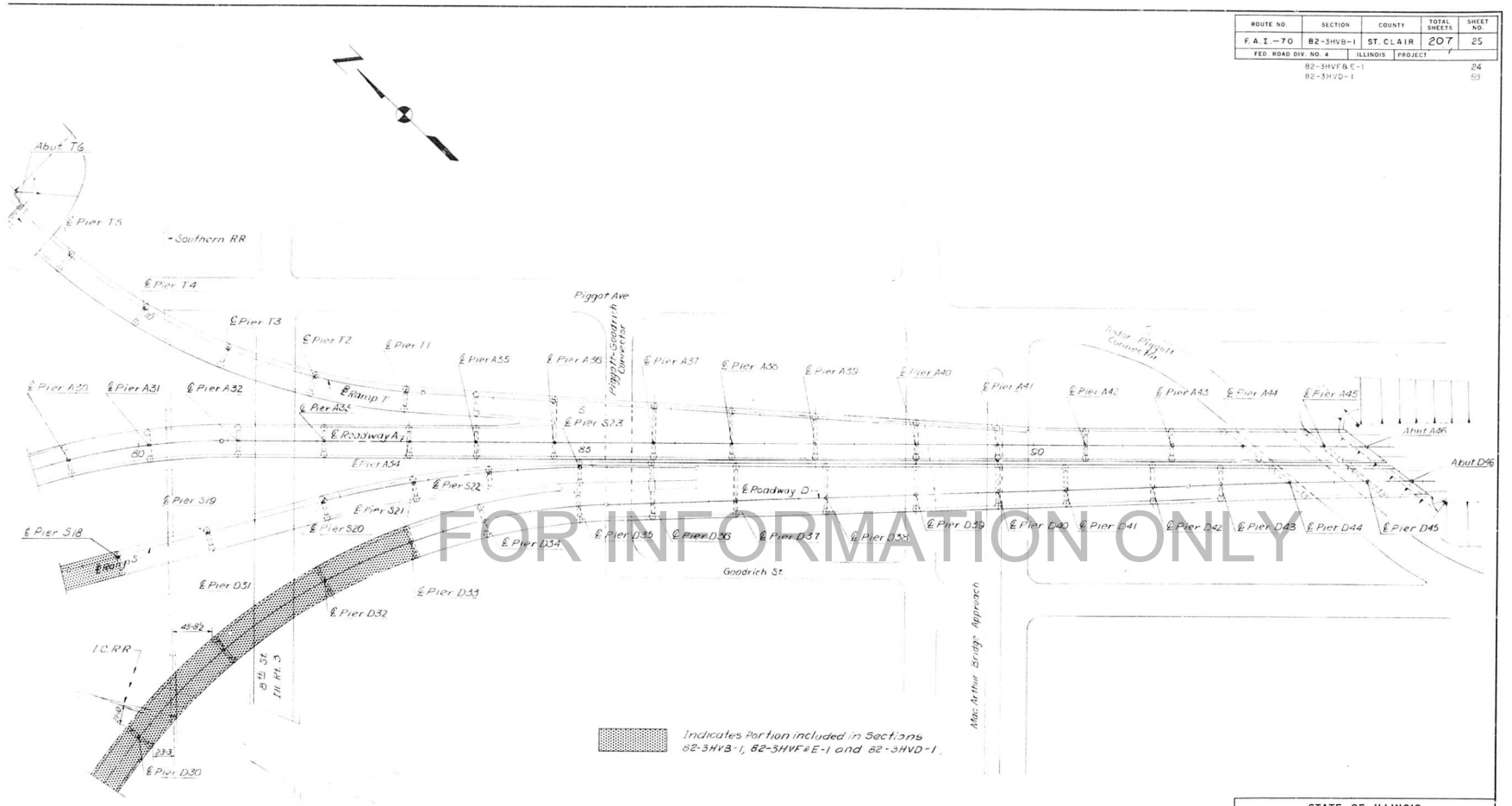
F.A.I. RT. 70 ST. CLAIR CO.

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

SHEET 5 of 526

DRAWN BY RMR
TRACED BY
CHECKED BY RMR
APPROVED BY KA

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.–70	82-3HVB-1	ST. CLAIR	207	25
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		
	82-3HVF&E-1			24
	82-3HVD-1			59



DESIGNED BY R.V.R.
DRAWN BY
CHECKED BY R.M.R.
APPROVED BY R.A.

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

GENERAL PLAN

POPLAR STREET BRIDGE APPROACHES

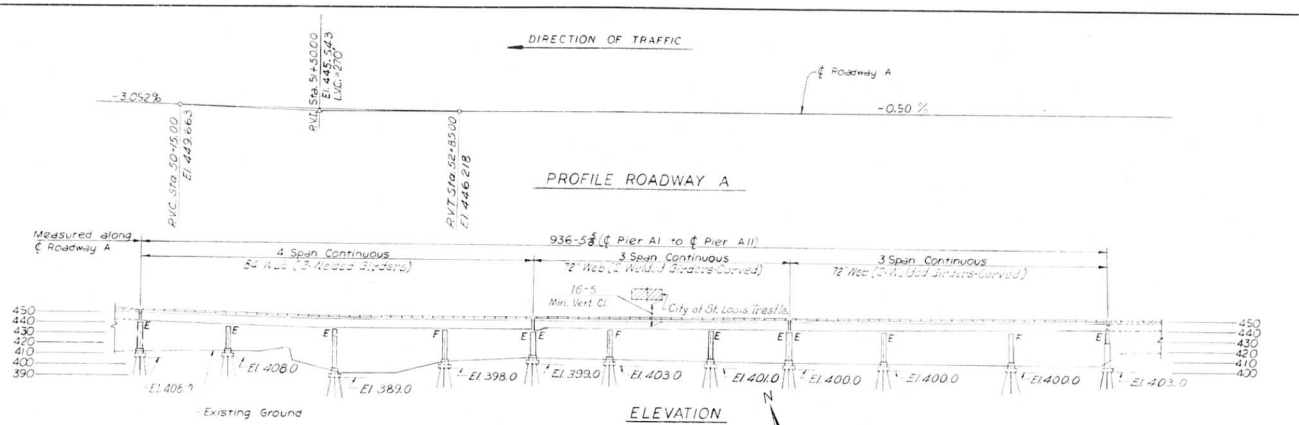
SECTIONS 82-3HVB-1
82-3HVF&E-1
82-3HVD-1

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

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

SHEET 6 of 526

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVB-1	ST. CLAIR	207	26
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		
	82-3HVFBE-1			25
	82-3HVD-1			60



THIS SECTION INCLUDES ALL ~~STEEL GIRDER~~ PIERS EXCEPT PIER A1. DATA FOR PIER A1 IS FOR REFERENCE ONLY.

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

PLAN AND ELEVATION

SPANS A1 THRU A10

POPLAR STREET BRIDGE APPROACHES ROADWAY "A"

SECTIONS 82-3HVB-1, 82-3HVFBE-1, 82-3HVD-1

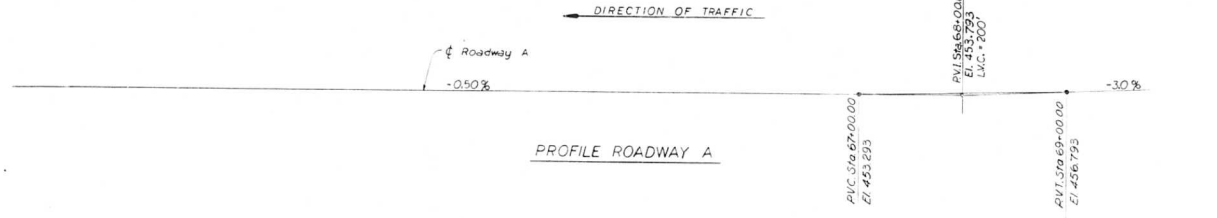
F.A.I. RT. 70 ST. CLAIR CO.

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

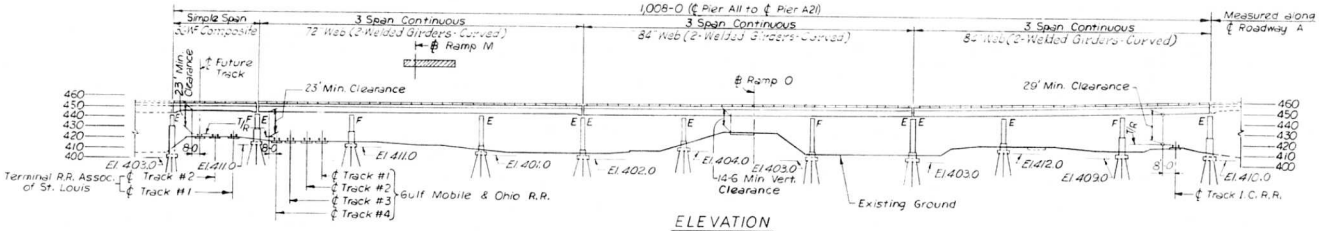
SHEET 7 OF 525

ED BY J.J.N.
Y BY P.S.
ED BY A.S.
VED BY K.A.

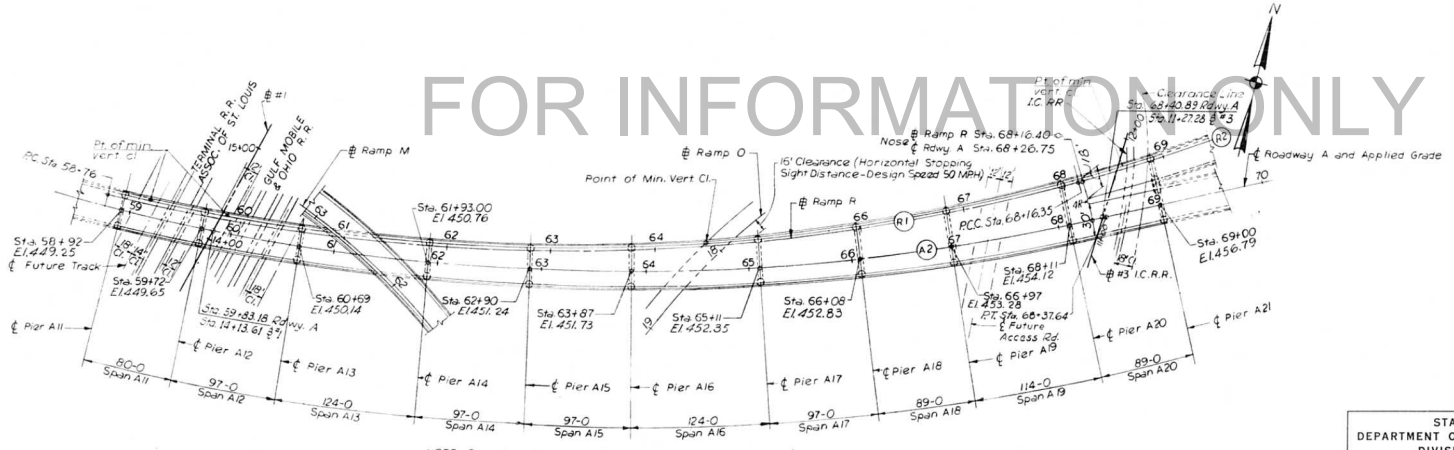
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.70	82-3HVB-1	ST. CLAIR	204	27
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		
	82-3HVFBE-1			26
	82-3HVD-1			61



PROFILE ROADWAY A



ELEVATION



NOTE: Span lengths are Arc Dimensions measured along ℄ Roadway A

PLAN

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

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
PLAN AND ELEVATION
SPANS A11 THRU A20
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

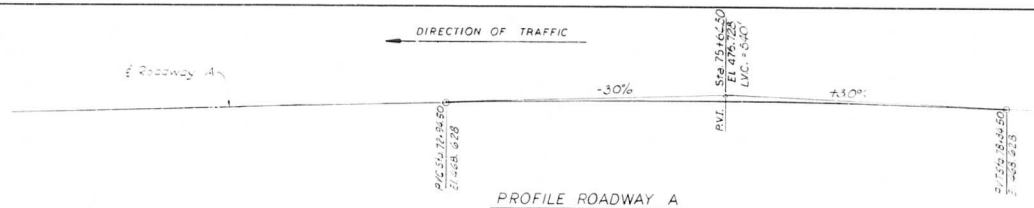
SECTIONS 82-3HVB-1
82-3HVFBE-1
82-3HVD-1

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

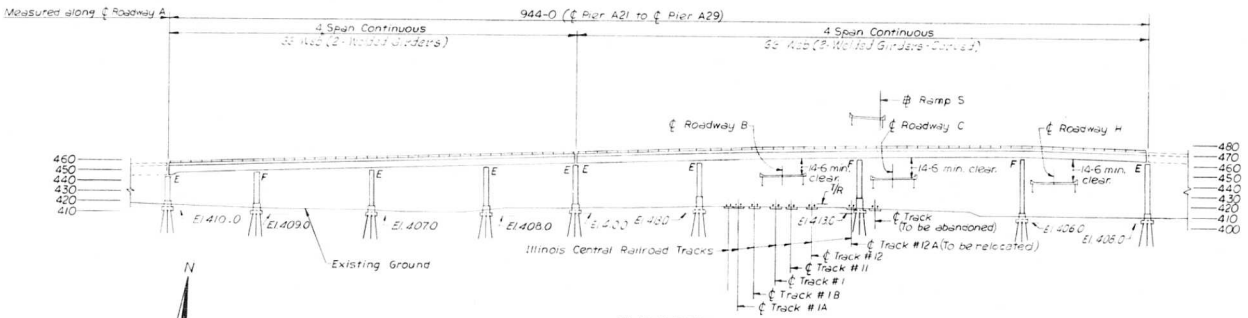
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 8 OF 526

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.–70	82–3HVB-1	ST. CLAIR	207	28
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		
	82-3HVFBE-1			27
	82-3HVD-1			62

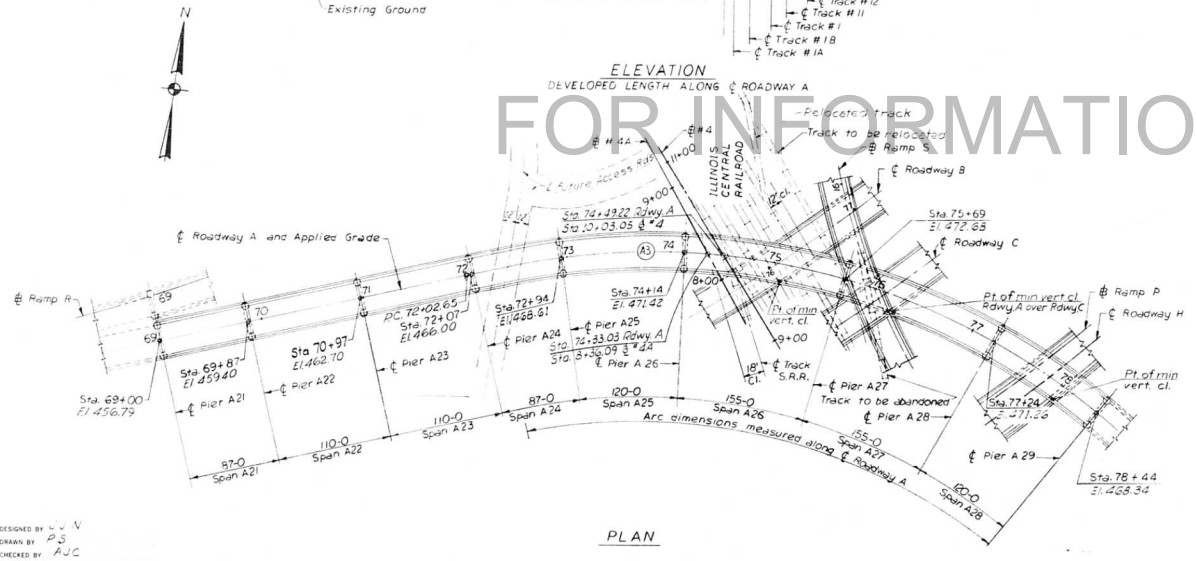


PROFILE ROADWAY A



ELEVATION

DEVELOPED LENGTH ALONG ℄ ROADWAY A



PLAN

THIS SECTION INCLUDES SPANS A21 THRU A24 ONLY. (PIER A25 NOT INCLUDED) OTHER DATA SHOWN ON THIS SHEET IS FOR REFERENCE ONLY.

DESIGNED BY [illegible]
DRAWN BY PS
CHECKED BY AJC
APPROVED BY [illegible]

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

PLAN AND ELEVATION
SPANS A21 THRU A28

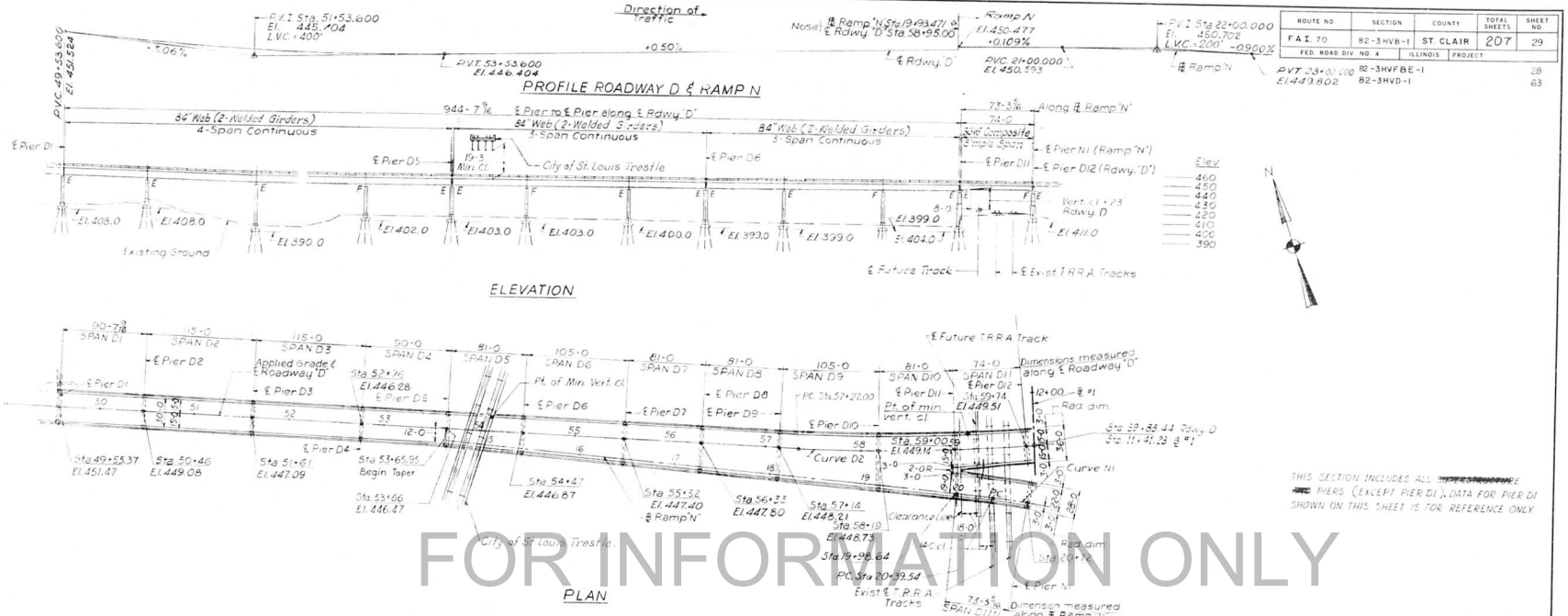
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

SECTIONS 82-3HVB-1, 82-3HVFBE-1, 82-3HVD-1

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

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

SHEET 9 OF 526



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVB-1	ST. CLAIR	207	29
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		
				28
	82-3HVFBE-1			63
	82-3HVD-1			

THIS SECTION INCLUDES ALL [redacted] PIERS (EXCEPT PIER D1). DATA FOR PIER D1 SHOWN ON THIS SHEET IS FOR REFERENCE ONLY.

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

PLAN AND ELEVATION

SPANS D1 THRU D11 & D11 N

POPLAR STREET BRIDGE APPROACHES
ROADWAY "D" AND RAMP "N"

SECTIONS 82-3HVB-1
82-3HVFBE-1
82-3HVD-1

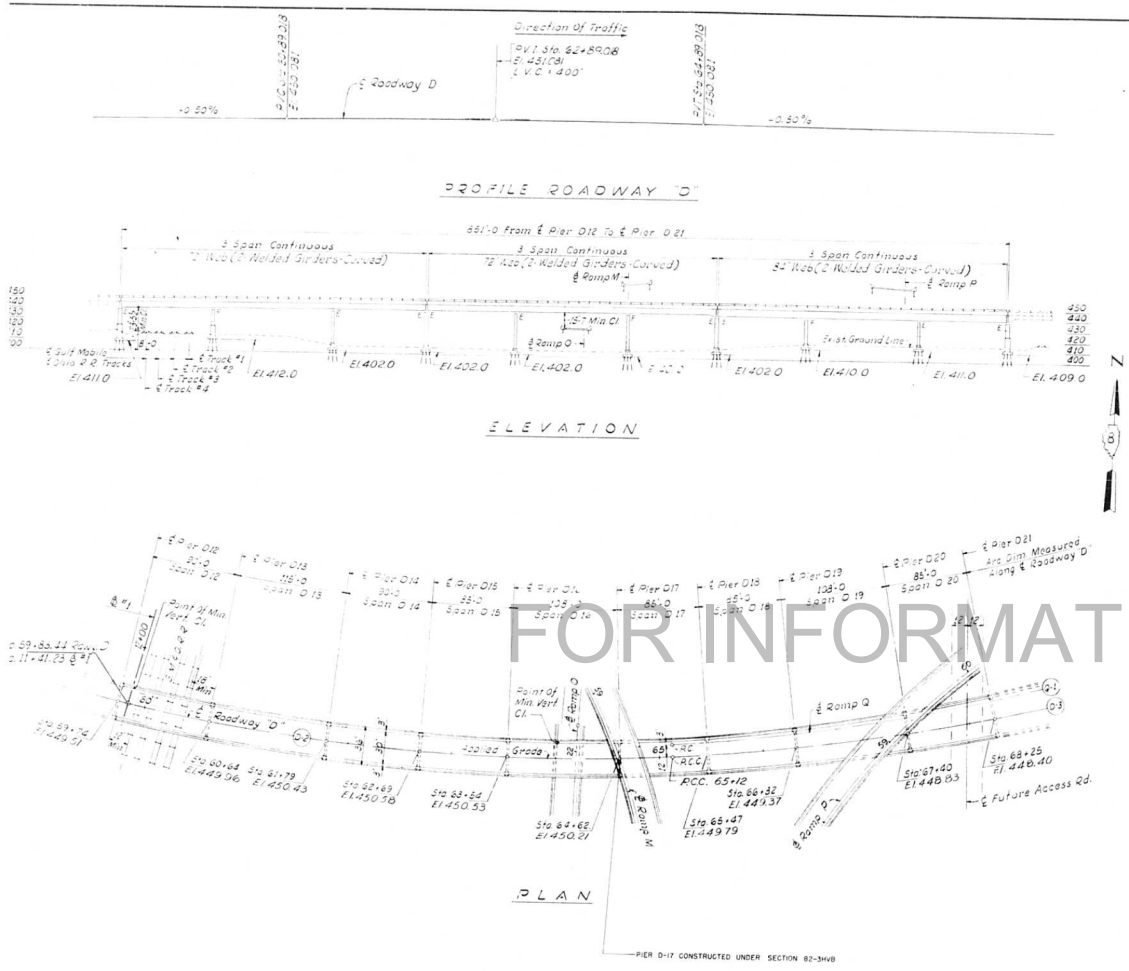
F.A.I. RT. 70 ST. CLAIR CO.

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

SHEET 10 of 506

DESIGNED BY J. N
DRAWN BY B
CHECKED BY B H
APPROVED BY K A

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F A I – 70	82-3HVB-1	ST. CLAIR	207	30
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		
	82-3HVFBE-1			29
	82-3HVD-1			64



THIS SHEET INCLUDES ALL [redacted] AND PIERS EXCEPT PIER D17. DATA FOR PIER D17 SHOWN ON THIS SHEET IS FOR REFERENCE ONLY.

SNED BY J J N
VN BY [illegible]
XED BY A J C
OVED BY K A

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

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

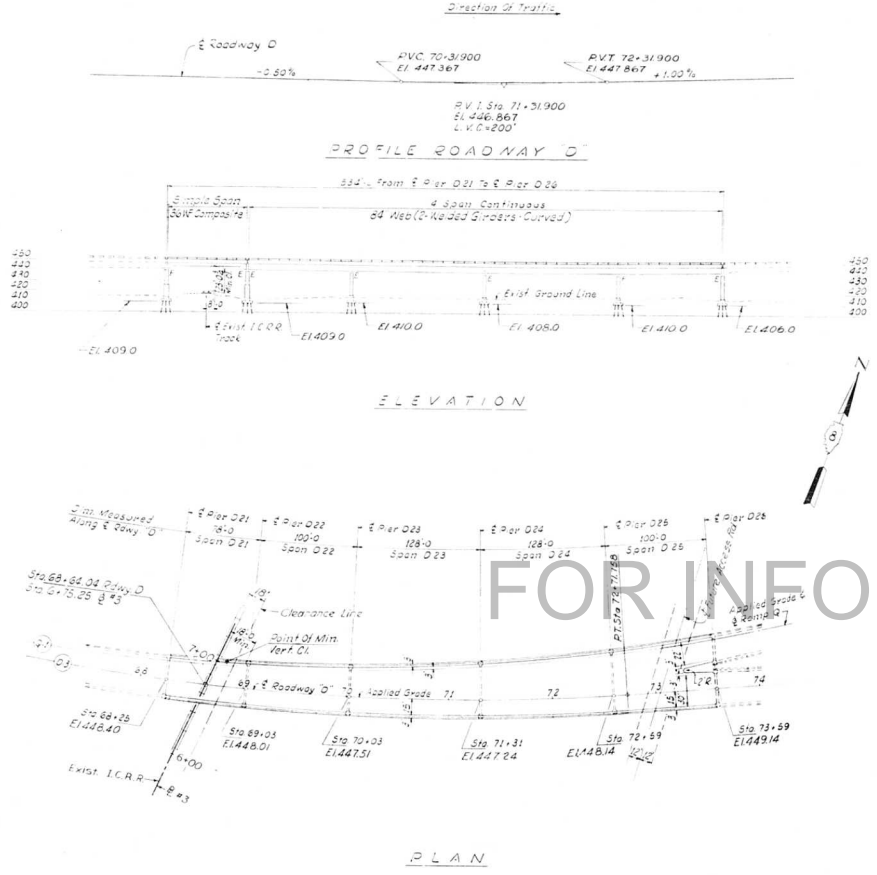
F.A.I. RT. 70 ST. CLAIR CO. SECTIONS 82-3HVB-1, 82-3HVFBE-1, 82-3HVD-1

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

SHEET 11 OF 526

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVB-1	ST. CLAIR	207	31
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

82-3HVFBE-1 30
82-3HVD-1 65



DESIGNED BY J.U.N.
DRAWN BY GRATZ
CHECKED BY B.H.
APPROVED BY K.A.

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

PLAN AND ELEVATION

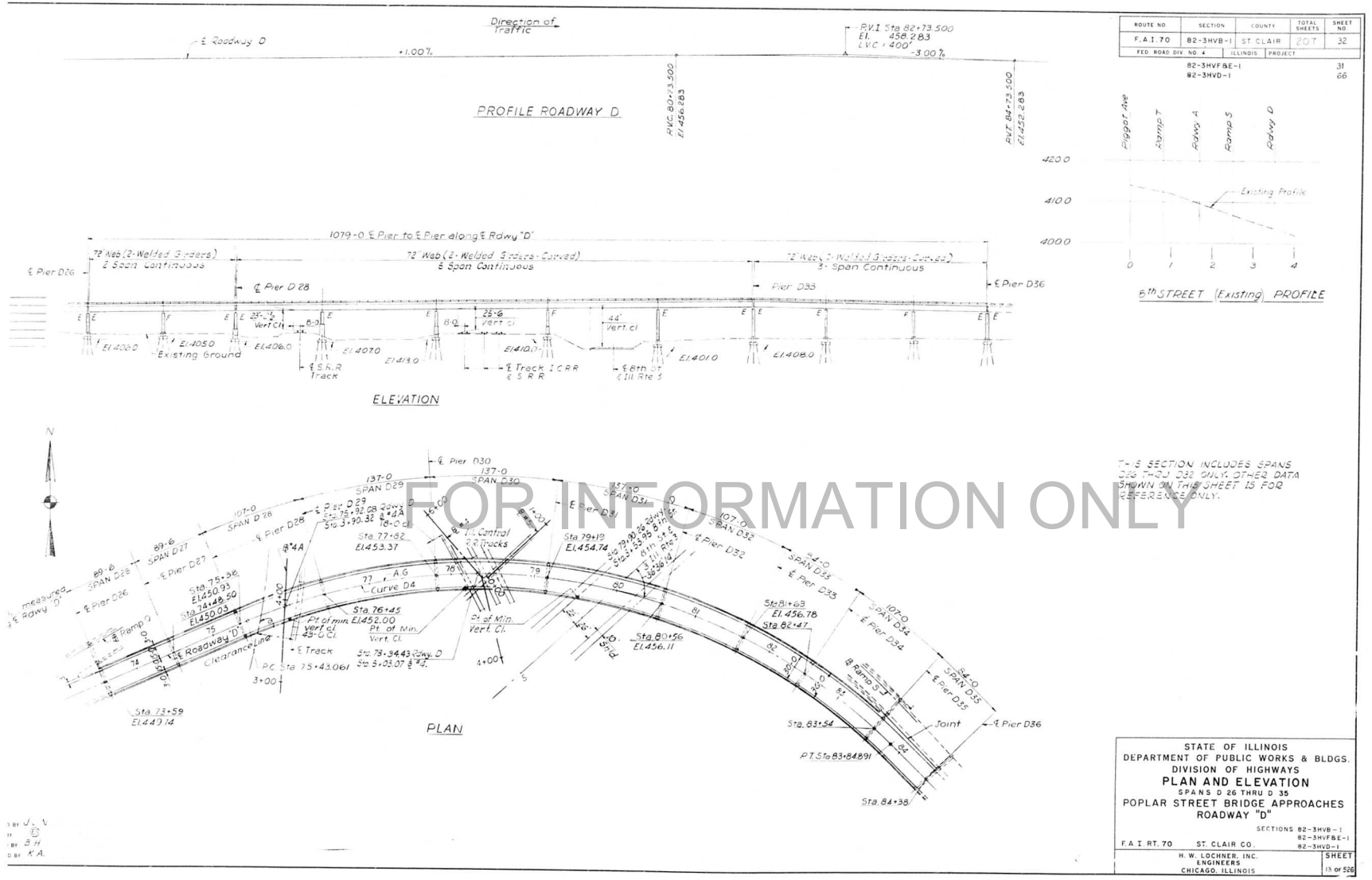
SPANS D21 THRU D25
POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

SECTIONS 82-3HVB-1
82-3HVFBE-1
82-3HVD-1

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

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

SHEET 12 OF 52



T-6 SECTION INCLUDES SPANS D26 THRU D32 ONLY. OTHER DATA SHOWN ON THIS SHEET IS FOR REFERENCE ONLY.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVB-1	ST. CLAIR	207	32
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		
	82-3HVF&E-1			31
	82-3HVD-1			66

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

PLAN AND ELEVATION

SPANS D 26 THRU D 35

POPLAR STREET BRIDGE APPROACHES ROADWAY "D"

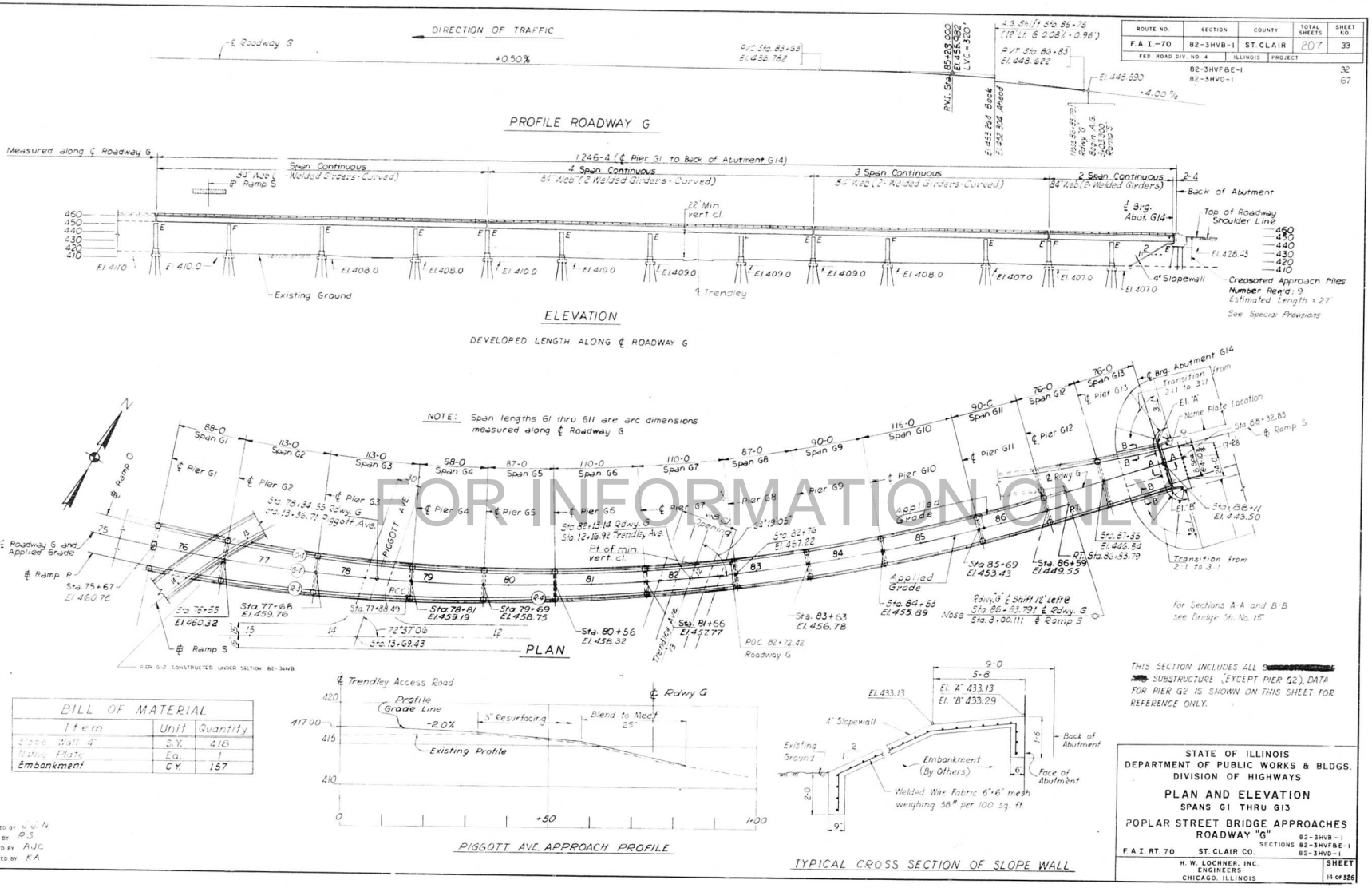
SECTIONS 82-3HVB-1, 82-3HVF&E-1, 82-3HVD-1

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

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

SHEET 13 OF 526

D BY J. V.
BY D
BY B.H.
D BY K.A.



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-1	ST. CLAIR	207	33
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		
	82-3HVF&E-1			32
	82-3HVD-1			67

BILL OF MATERIAL		
Item	Unit	Quantity
Slope Wall 4"	S.Y.	418
Name Plate	Ea.	1
Embankment	C.Y.	157

DESIGNED BY H.W.N.
DRAWN BY P.S.
CHECKED BY A.J.C.
APPROVED BY F.A.

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

PLAN AND ELEVATION
SPANS G1 THRU G13
POPLAR STREET BRIDGE APPROACHES
ROADWAY "G"

SECTIONS 82-3HVB-1, 82-3HVF&E-1, 82-3HVD-1
F.A.I. RT. 70 ST. CLAIR CO.

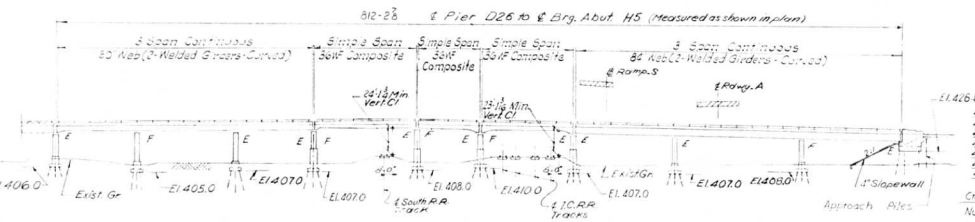
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 14 OF 326

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.I. 70	82-3HVB-1	ST. CLAIR	207	34
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

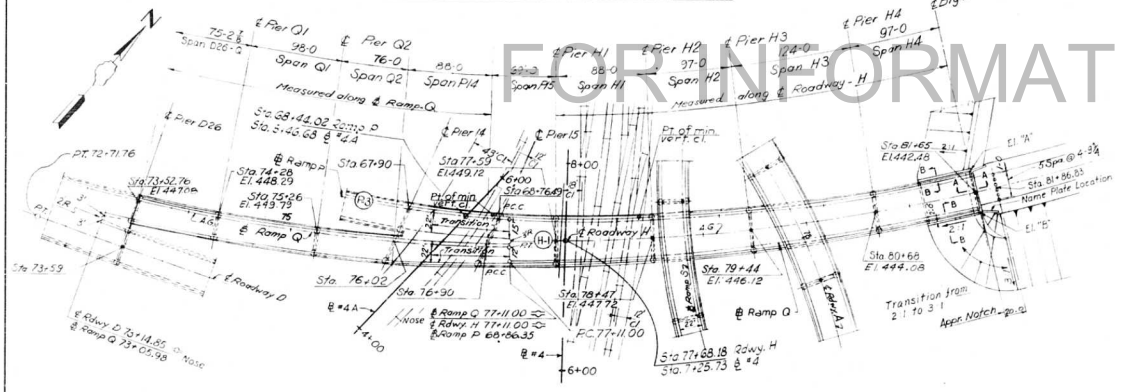
82-3HVFBE-1 33
82-3HVD-1 68

PROFILE RAMP-Q AND ROADWAY-H

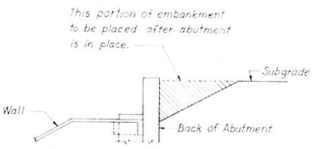


Creosoted Approach Piles
Number Required - 6
Estimated Length - 25'
See Special Provisions

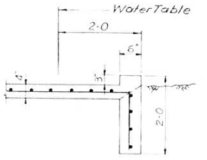
ELEVATION
DEVELOPED LENGTH ALONG ℄ RAMP Q & ℄ ROADWAY H



PLAN



SECTION A-A



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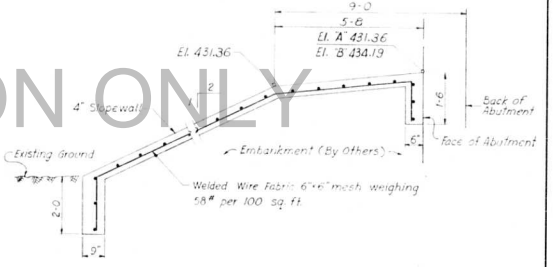


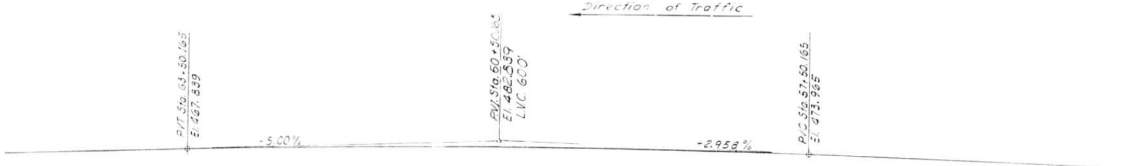
TYPICAL CROSS SECTION OF SLOPE WALL

BILL OF MATERIAL		
Item	Unit	Quantity
Slope Wall 4"	S.Y.	282
Name Plate	Ea.	1
Embankment	C.Y.	100

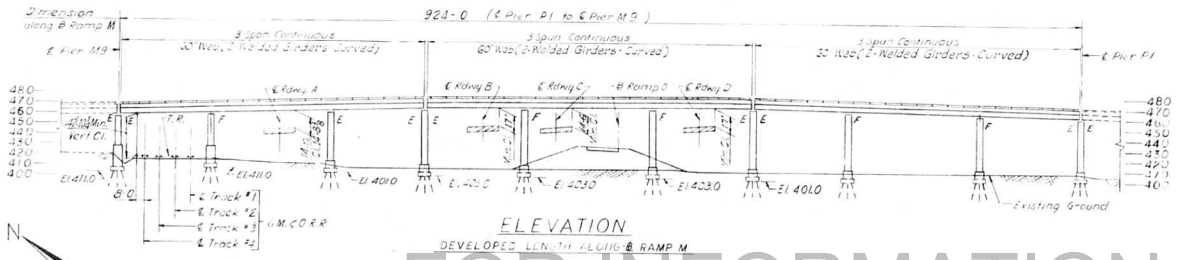
DESIGNED BY J.J.N.
DRAWN BY S.A.B.
CHECKED BY R.M.R.
APPROVED BY K.A.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
PLAN AND ELEVATION
SPANS D26-Q, Q1, Q2, P14, P15, H1 THRU H4
POPLAR STREET BRIDGE APPROACHES
ROADWAY "H" AND RAMP "Q"
SECTIONS 82-3HVB-1
82-3HVFBE-1
82-3HVD-1
F.A.I. RT. 70 ST. CLAIR CO.
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS
SHEET 15 OF 526

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-1	ST. CLAIR	207	35
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		
	82-3HVF.B.E-1			34
	82-3HVD-1			69

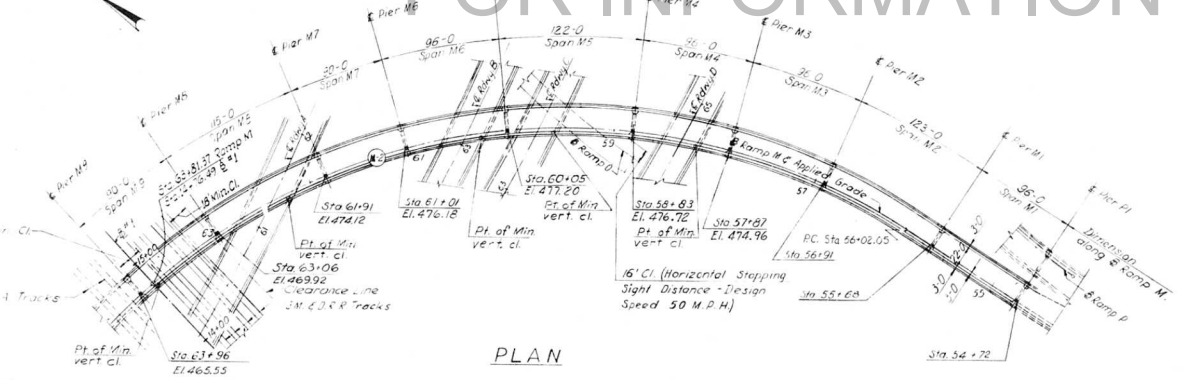


PROFILE RAMP M



ELEVATION

DEVELOPED LENGTH ALONG ℄ RAMP M



PLAN

THIS SECTION INCLUDES SPANS M7 THRU M9 ONLY. (PIER M6 NOT INCLUDED) OTHER DATA SHOWN ON THIS SHEET IS FOR REFERENCE ONLY.

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

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

PLAN AND ELEVATION
SPANS M1 THRU M9

POPLAR STREET BRIDGE APPROACHES
RAMP "M"

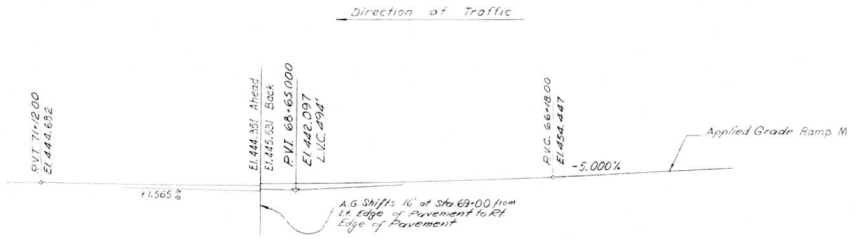
SECTIONS 82-3HVB-1, 82-3HVF.B.E-1, 82-3HVD-1

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

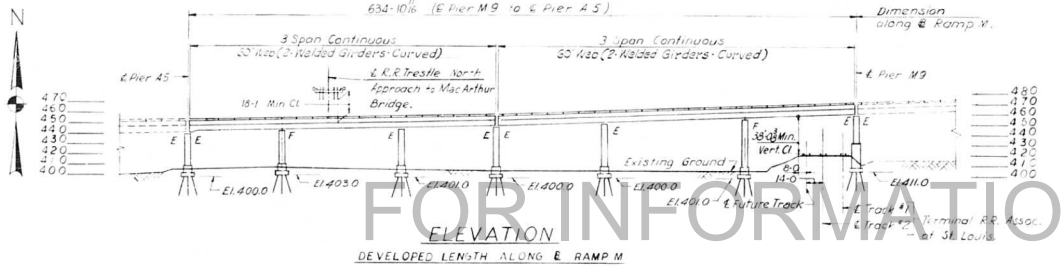
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS.

SHEET 16 OF 526

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVB-1	ST. CLAIR	207	36
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		
	82-3HVFBE-1			35
	82-3HVD-1			70

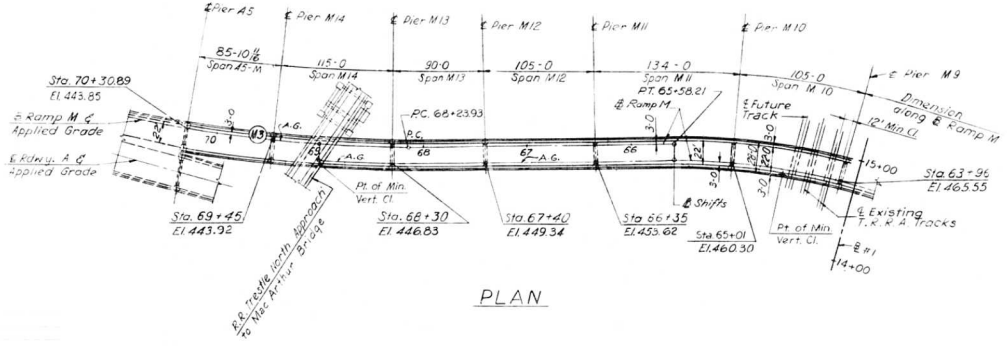


PROFILE RAMP M



ELEVATION

DEVELOPED LENGTH ALONG ℄ RAMP M



PLAN

DESIGNED BY J.J.N.
DRAWN BY E.A.M.
CHECKED BY B.H.
APPROVED BY K.A.

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

PLAN AND ELEVATION

SPANS M10 THRU M14 AND A5-M

POPLAR STREET BRIDGE APPROACHES

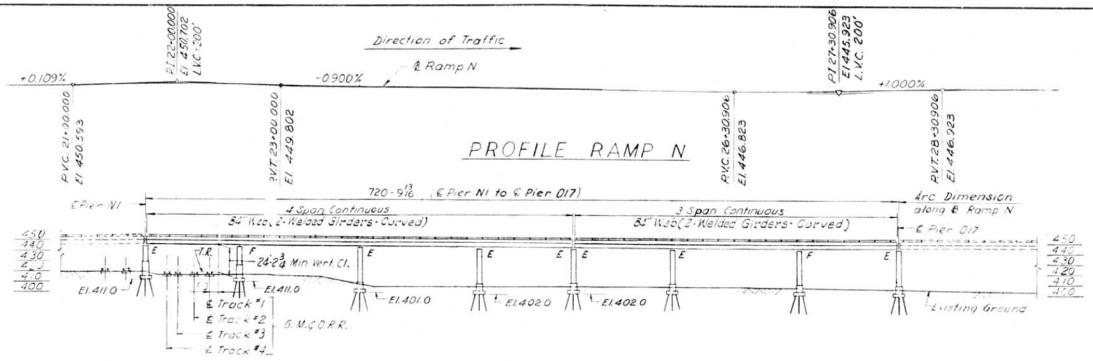
RAMP "M"

SECTIONS 82-3HVB-1, 82-3HVFBE-1, 82-3HVD-1

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

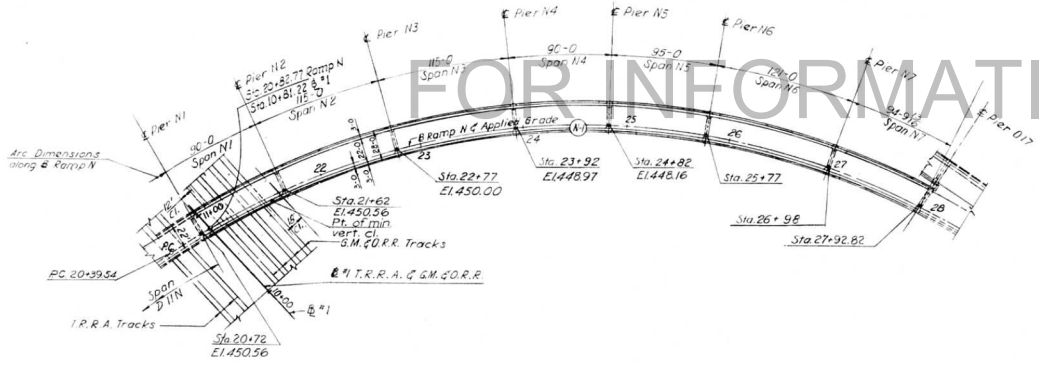
H. W. LOCHNER, INC. ENGINEERS CHICAGO, ILLINOIS

SHEET 17 OF 526



ELEVATION

DEVELOPED LENGTH ALONG ℄ RAMP N



PLAN

THIS SECTION INCLUDES SPANS N1 THRU N4 ONLY. OTHER DATA SHOWN ON THIS SHEET IS FOR REFERENCE ONLY.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.70	82-3HVB-1	ST. CLAIR	207	37
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		
	82-3HVFBE-1			36
	82-3HVD-1			71

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

PLAN AND ELEVATION

SPANS N1 THRU N7

POPLAR STREET BRIDGE APPROACHES

RAMP "N"

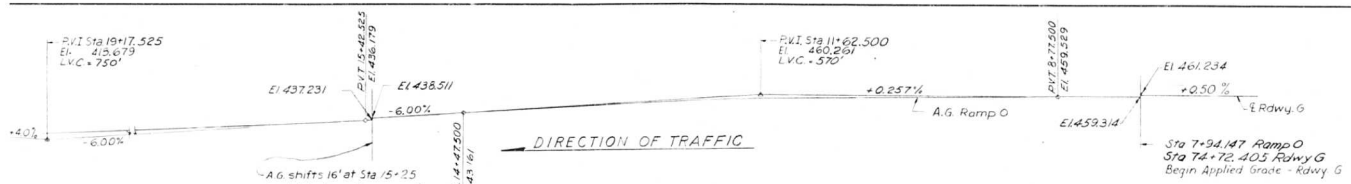
SECTIONS 82-3HVB-1, 82-3HVFBE-1, 82-3HVD-1

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

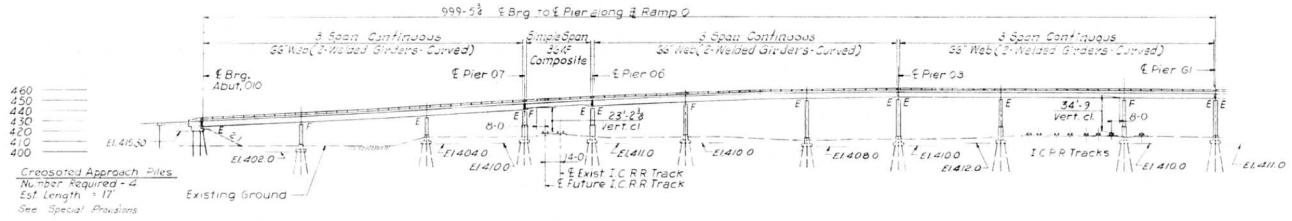
H. W. LOCHNER, INC. ENGINEERS CHICAGO, ILLINOIS

SHEET 18 of 526

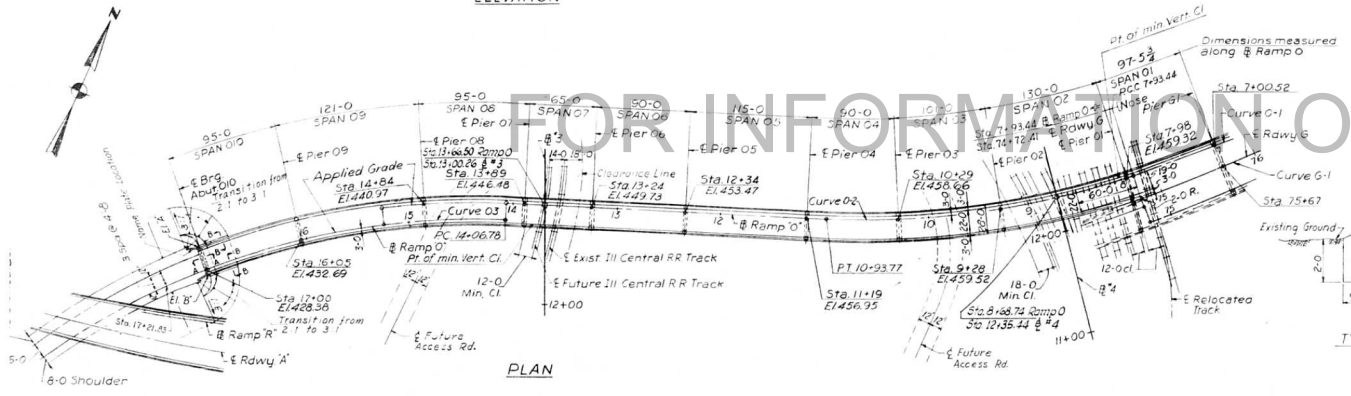
DESIGNED BY J.J.N.
DRAWN BY I.A.M.
CHECKED BY B.H.
APPROVED BY K.A.



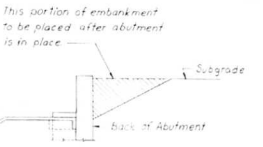
PROFILE RAMP O ℄ ROADWAY G



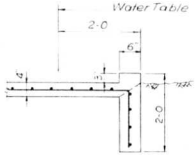
ELEVATION



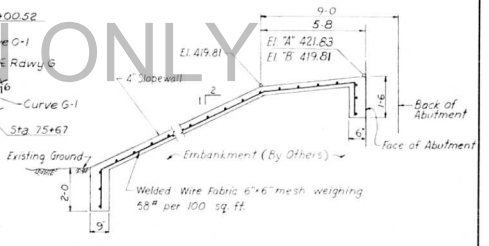
PLAN



SECTION A-A



SECTION B-B



TYPICAL CROSS SECTION OF SLOPE WALL

Note: Plan of Slope Wall similar to Plan shown for Abut 011 - sh no. 20

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVB-1	ST. CLAIR	207	38
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		
	82-3HVFBE-1			37
	82-3HVD-1			72

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

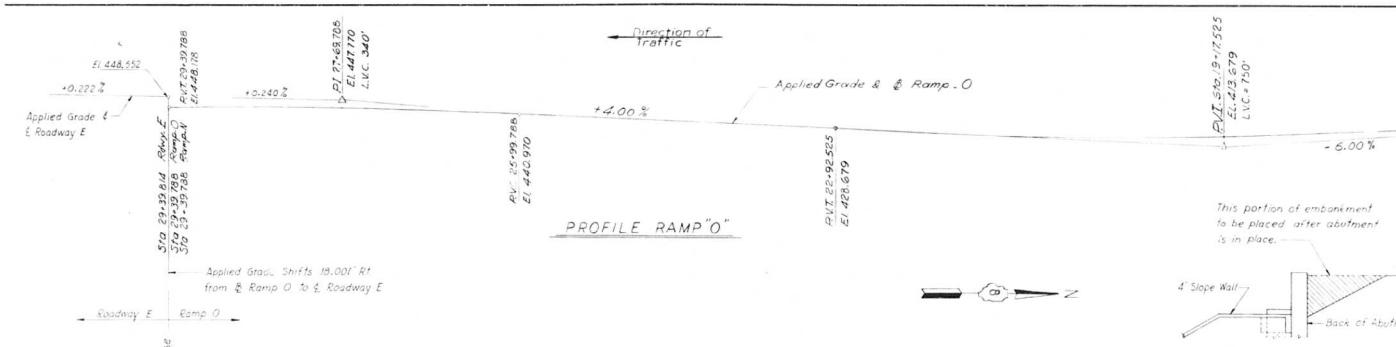
SECTIONS 82-3HVB-1, 82-3HVFBE-1, 82-3HVD-1
F.A.I. RT. 70 ST. CLAIR CO.

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

SHEET 19 OF 526

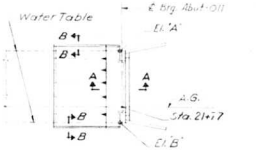
DESIGNED BY J.J.N.
DRAWN BY ©
CHECKED BY R.M.R.
APPROVED BY K.A.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I. 70	82-3HVB-1	ST. CLAIR	207	39
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		
	82-3HVFBE-1			38
	82-3HVD-1			73

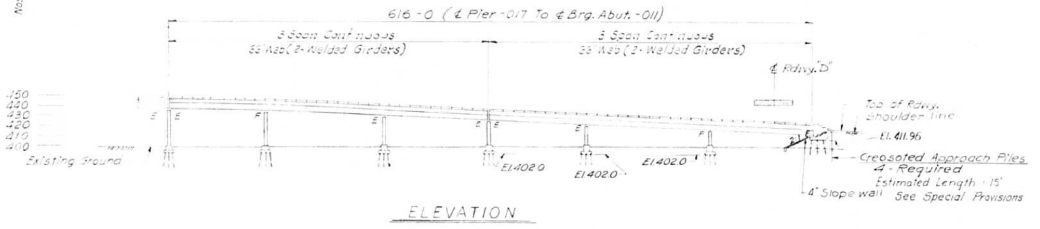


PROFILE RAMP "O"

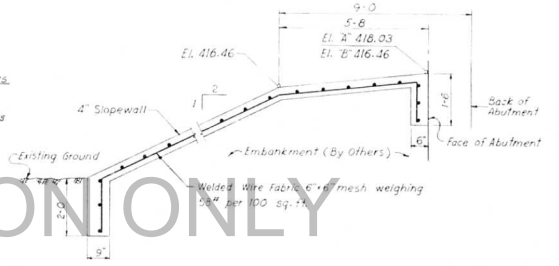
SECTION A-A



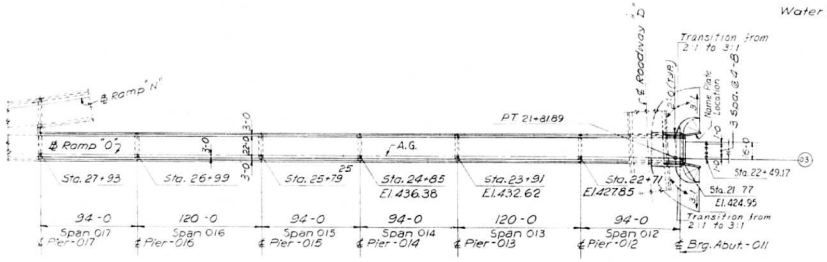
PLAN OF SLOPEWALL



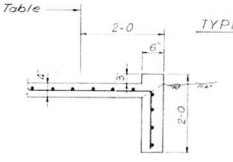
ELEVATION



TYPICAL CROSS SECTION OF SLOPE WALL



PLAN



SECTION B-B

THIS SECTION INCLUDES SPANS 012 THRU 014 ONLY. OTHER DATA SHOWN ON THIS SHEET IS FOR REFERENCE ONLY.

BILL OF MATERIAL		
Item	Unit	Quantity
Slope Wall 4"	S.Y.	141
Name Plate	Ea.	1
Embankment	C.Y.	50

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

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

PLAN AND ELEVATION

SPANS 012 THRU 017

POPLAR STREET BRIDGE APPROACHES

RAMP "O"

SECTIONS 82-3HVB-1, 82-3HVFBE-1, 82-3HVD-1

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

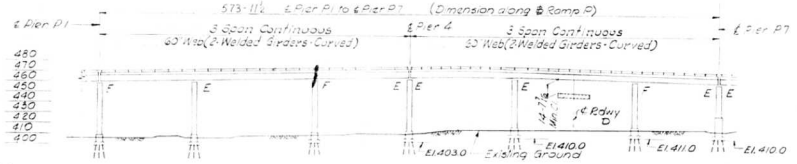
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 20 OF 526

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.70	82-3HVB-I	ST. CLAIR	207	40
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

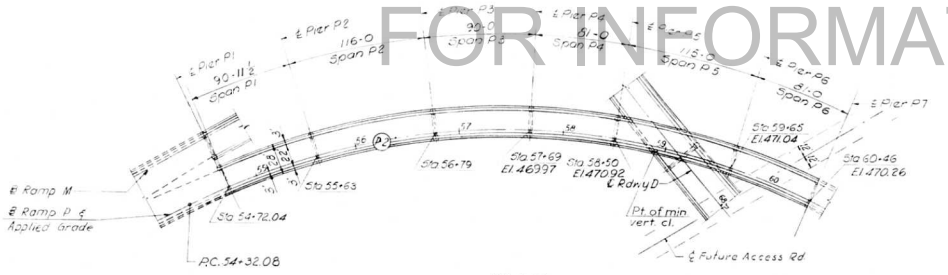
82-3HVFBE-I 39
82-3HVD-I 74

PROFILE RAMP P



ELEVATION

Developed Length along ℄ Ramp P



PLAN

THIS SECTION INCLUDES SPANS P4 THRU P6 ONLY. OTHER DATA SHOWN ON THIS SHEET IS FOR REFERENCE ONLY.

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

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

PLAN AND ELEVATION

SPANS P1 THRU P6

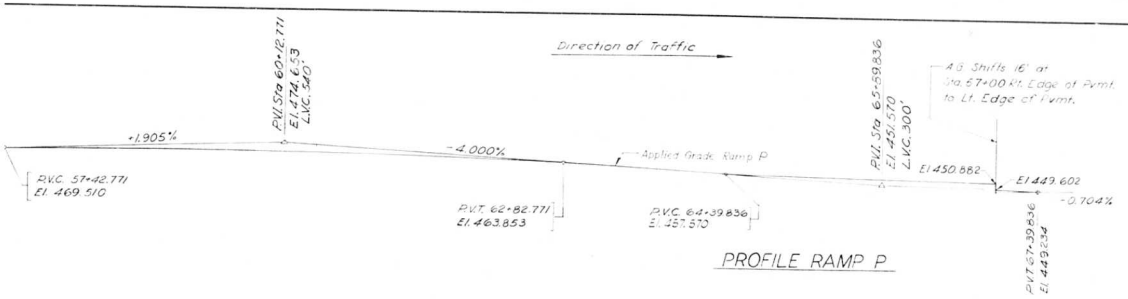
POPLAR STREET BRIDGE APPROACHES RAMP "P"

SECTIONS 82-3HVB-1
82-3HVFBE-1
82-3HVD-1

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

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

SHEET 21 OF 526



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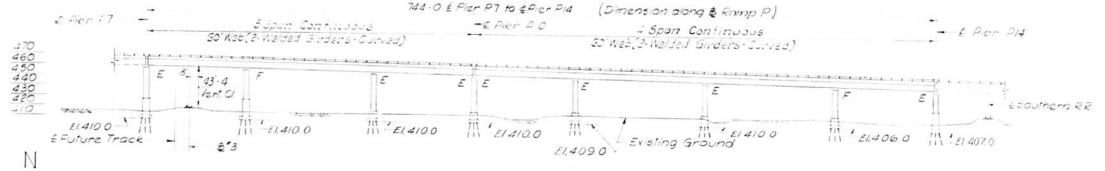
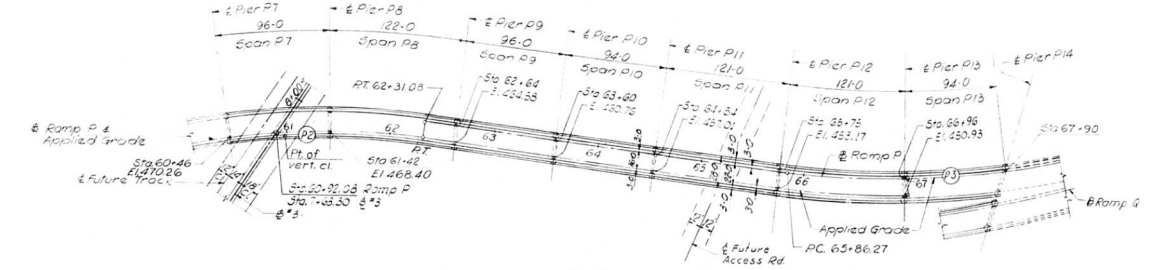


ELEVATION

Developed Length along ℄ Ramp P



PLAN

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVB-1	ST. CLAIR	207	41
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		
	82-3HVFBE-1			40
	82-3HVD-1			75

DRAWN BY J.J.N.
TRACED BY I.A.M.
CHECKED BY B.H.
APPROVED BY K.A.

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

PLAN AND ELEVATION

SPANS P7 THRU P13

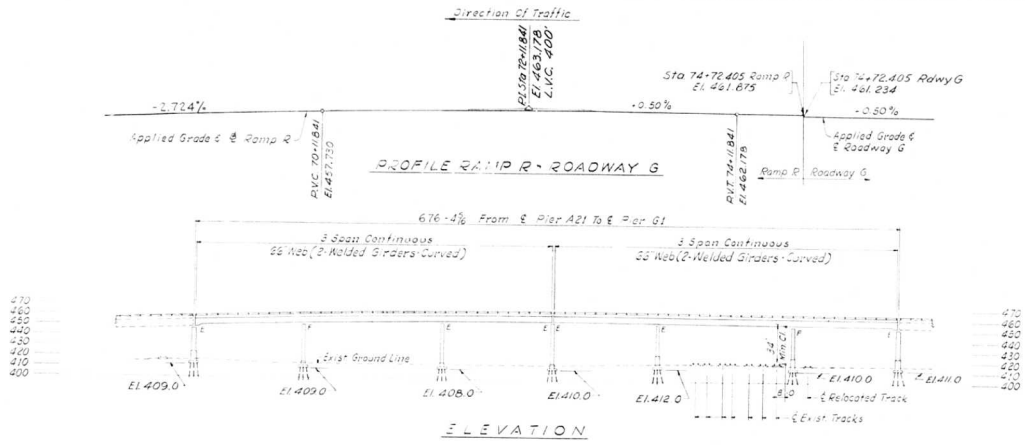
POPLAR STREET BRIDGE APPROACHES
RAMP "P"

SECTIONS 82-3HVB-1
82-3HVFBE-1
82-3HVD-1

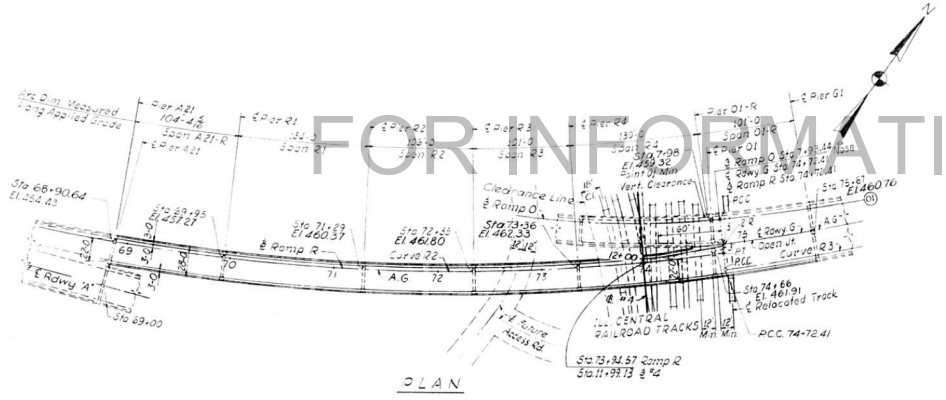
F.A.I. RT. 70 ST. CLAIR CO.

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

SHEET 22 OF 526



ELEVATION



PLAN

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVB-I	ST. CLAIR	207	42
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		
	82-3HVFBE-I			41
	82-3HVD-I			76

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

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

PLAN AND ELEVATION

SPANS A21-R, R1 THRU R4801-R

POPLAR STREET BRIDGE APPROACHES

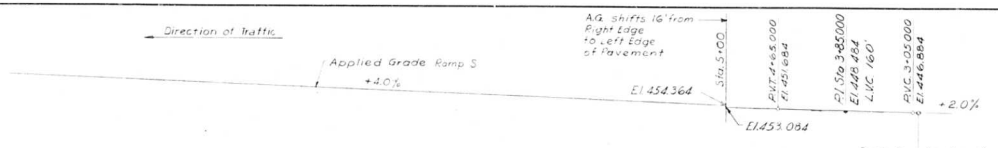
RAMP "R"

SECTIONS 82-3HVB-I
82-3HVFBE-I
82-3HVD-I

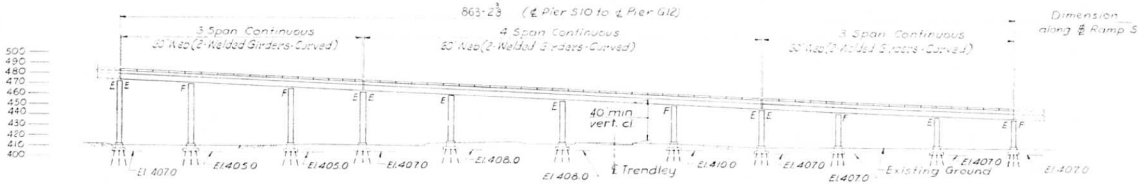
F.A.I RT. 70 ST. CLAIR CO.

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

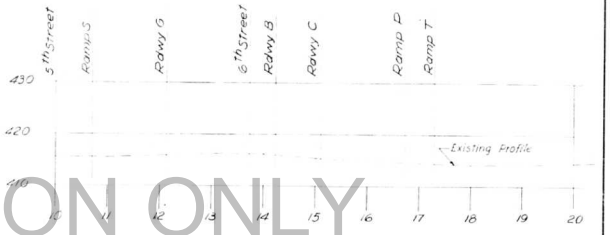
SHEET 23 OF 526



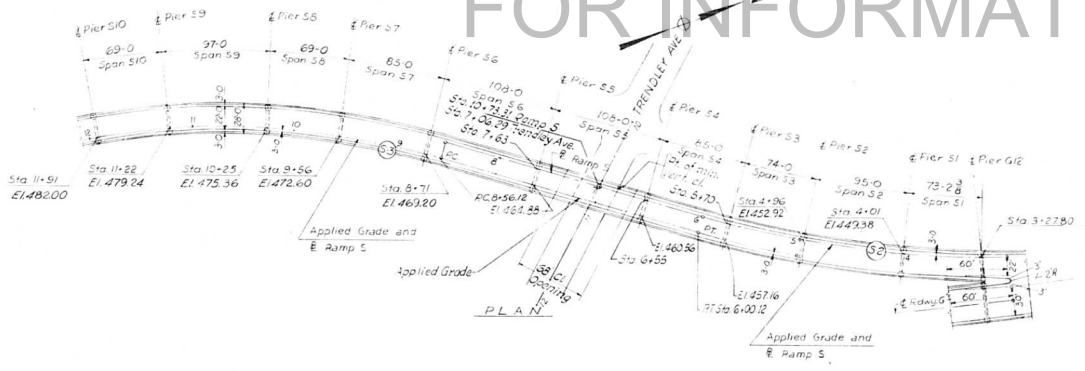
PROFILE RAMP S



ELEVATION
Developed Length along ℄ Ramp S



TRENDLEY AVE. (Existing) PROFILE



PLAN

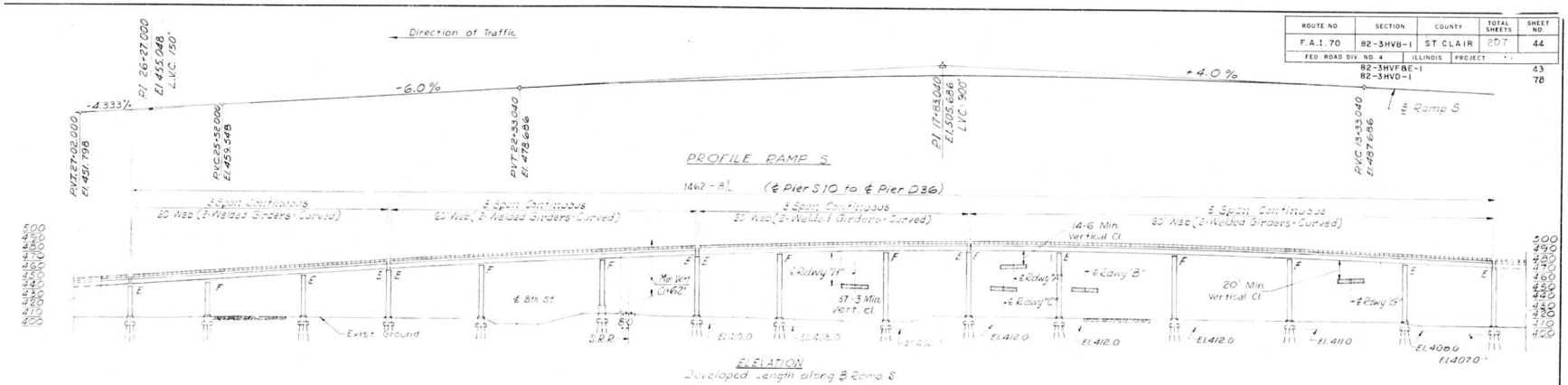
THIS SECTION INCLUDES ALL STRUCTURE PIERS EXCEPT PIER S10. DATA FOR PIER S10 SHOWN ON THIS SHEET IS FOR REFERENCE ONLY.

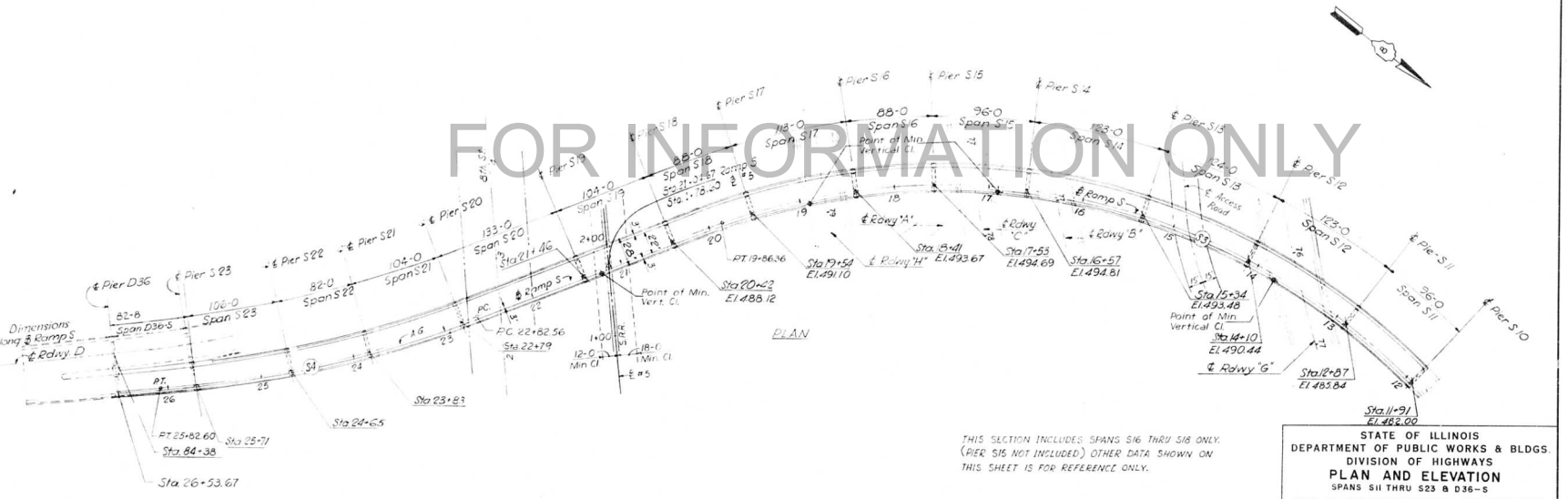
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.70	82-3HVB-1	ST. CLAIR	207	43
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		
	82-3HVFBE-1			42
	82-3HVD-1			77

DESIGNED BY J.J.N.
DRAWN BY B.B.
CHECKED BY B.H.
APPROVED BY K.A.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
PLAN AND ELEVATION
SPANS S1 THRU S10
POPLAR STREET BRIDGE APPROACHES
RAMP "S"
SECTIONS 82-3HVB-1, 82-3HVFBE-1, 82-3HVD-1
F.A.I. RT. 70 ST. CLAIR CO.
H. W. LOCHNER, INC. ENGINEERS
CHICAGO, ILLINOIS
SHEET 24 of 526

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVB-1	ST. CLAIR	207	44
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		
	82-3HVFBE-1			43
	82-3HVD-1			78





THIS SECTION INCLUDES SPANS S16 THRU S18 ONLY. (PIER S15 NOT INCLUDED) OTHER DATA SHOWN ON THIS SHEET IS FOR REFERENCE ONLY.

SIGNED BY J.J.N.
DRAWN BY Geo.S.P.
CHECKED BY S.H.
APPROVED BY K.A.

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

PLAN AND ELEVATION

SPANS S11 THRU S23 & D36-S

POPLAR STREET BRIDGE APPROACHES

RAMP "S"

SECTIONS 82-3HVB-1, 82-3HVFBE-1, 82-3HVD-1

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

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

SHEET 25 of 526

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVB-1	ST. CLAIR	207	45
FED. ROAD DIV. NO. 4	ILLINOIS PROJECT			
	82-3HVF&E-1			44
	82-3HVD-1			79

TABLE OF COORDINATES

Pier No.	℄ Roadway A			Azimuth	Right Col. Offset	Left Col. Offset
	Sta.	N. Coordinate	E. Coordinate			
A1	49+55.53	9295.502	30826.071	16°49'09"	16-0	36-0⅝
A2	50+39	9271.350	30905.971	16°49'09"	16-0	37-6
A3	51+45	9240.679	31007.436	16°49'09"	16-0	39-9
A4	52+5	9210.008	31108.902	16°49'09"	16-0	41-11
A5	53+3	9185.991	31188.351	16°49'09"	16-0	47-3¼
A6	54+09	9165.122	31260.336	15°08'18"	16-0	16-0
A7	55+05	9142.268	31353.616	12°24'32"	16-0	16-0
A8	55+80	9127.518	31427.147	10°16'35"	16-0	16-0
A9	56+75	9112.780	31520.988	7°34'30"	16-0	16-0
A10	57+97	9100.367	31642.336	4°06'22"	16-0	16-0
A11	58+92	9095.801	31737.218	1°24'17"	16-0	16-0
A12	59+72	9095.427	31817.2[illegible]	179°07'48"	16-0	16-3
A13	60+69	9099.234	31914.128	176°22'18"	16-0	17-1
A14	61+93	9110.882	32037.560	172°50'45"	16-0	18-11½
A15	62+90	9125.214	32133.476	170°05'16"	16-0	21-0½

Curve A2

P.I. = 61+29.51
Δ = 42°18'12"
D = 2°50'36"
R = 2015.00'
L = 1487.74'
T = 779.61
E = 145.56

DESIGNED BY R.M.Z.
DRAWN BY I.M.
CHECKED BY S.A.B.
APPROVED BY K.A.

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

GEOMETRIC LAYOUT

PIERS A1 THRU A15

POPLAR STREET BRIDGE APPROACHES ROADWAY "A"

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

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

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

SHEET 26 OF 526

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVB-1	ST. CLAIR	207	46
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		
	82-3HVFBE-1			45
	82-3HVD-1			80

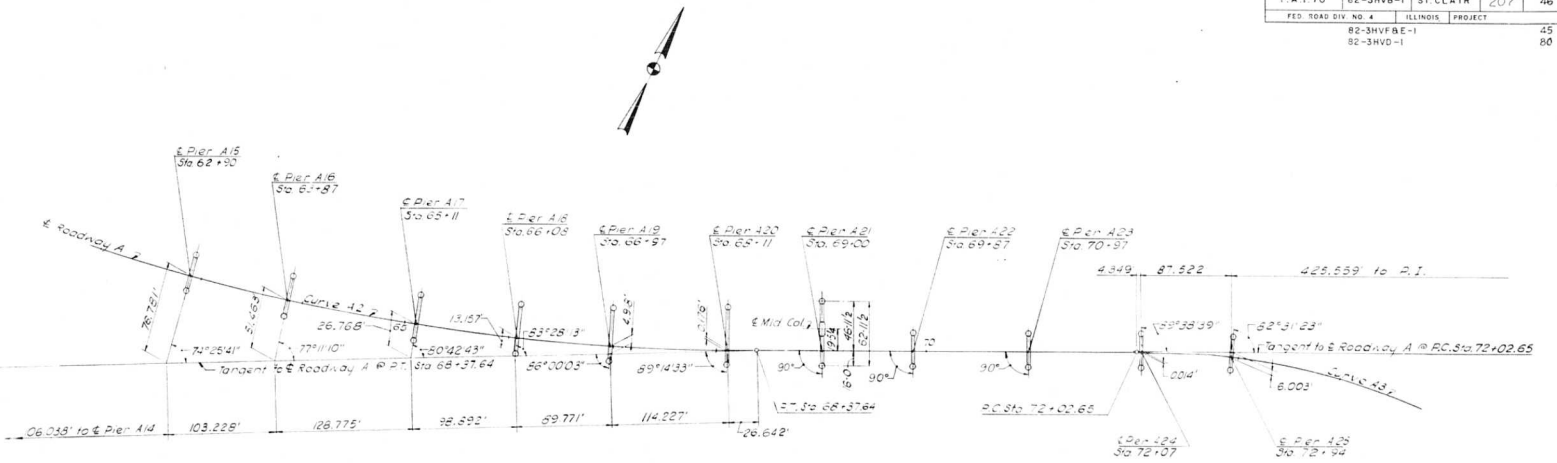


TABLE OF COORDINATES

Pier No.	Sta.	℄ Roadway A N. Coordinate	℄ Roadway A E. Coordinate	Azimuth	Right Col. Offset	Left Col. Offset
A 16	63+87	9144.265	32228.590	167° 19' 46"	16'-0	23'-8
A 17	65+11	9175.167	32348.657	163° 48' 13"	16'-0	27'-9
A 18	66+08	9204.454	32441.120	161° 02 44"	16'-0	31'-7
A 19	66+97	9235.212	32524.629	158° 30' 53"	16'-0	35'-6
A 20	68+11	9279.944	32629.470	155° 16' 24"	16'-0	41'-2
A 21	69+00	9318.078	32709.886	154° 30' 57"	16'-0	46'-11½
A 22	69+87	9355.511	32788.421	154° 30' 57"	16'-0	16'-0
A 23	70+97	9402.839	32887.716	154° 30' 57"	16'-0	16'-0
A 24	72+07	9450.156	32987.021	154° 52' 16"	16'-0	16'-0
A 25	72+94	9482.117	33067.675	161° 59' 34"	16'-0	16'-0

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'

DESIGNED BY R.M.R.
DRAWN BY I.M.
CHECKED BY S.Q.B.
APPROVED BY K.A.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
GEOMETRIC LAYOUT
PIERS A15 THRU A25
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"
SECTIONS 82-3HVB-1
82-3HVFBE-1
82-3HVD-1
F.A.I. RT. 70 ST. CLAIR CO.
H. W. LOCHNER, INC. ENGINEERS
CHICAGO, ILLINOIS
SHEET 27 OF 526

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVB-1	ST. CLAIR	207	47
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		
	82-3HVF&E-1			46
	82-3HVD-1			81

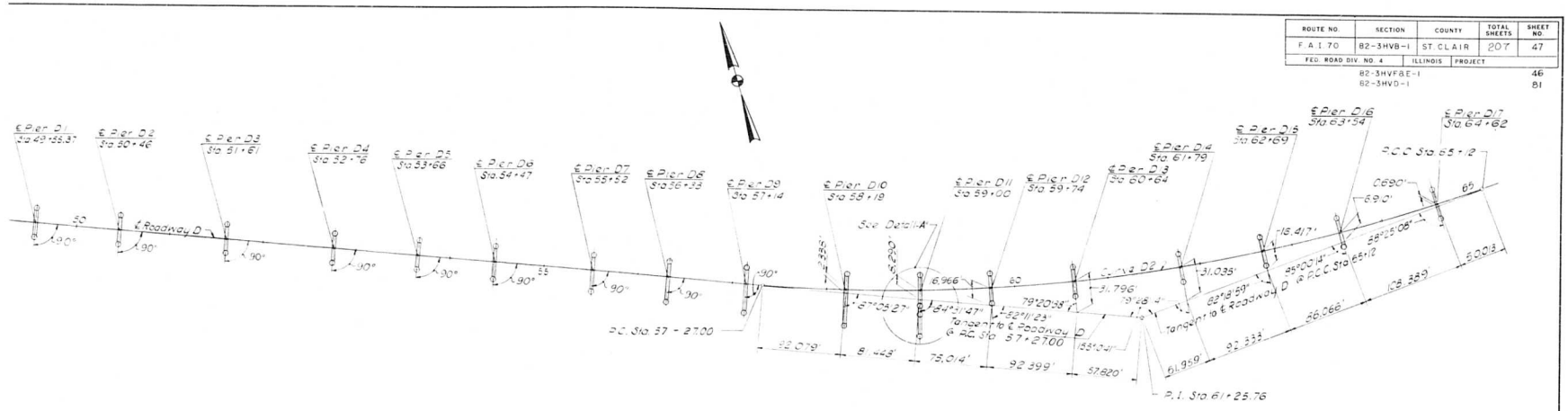
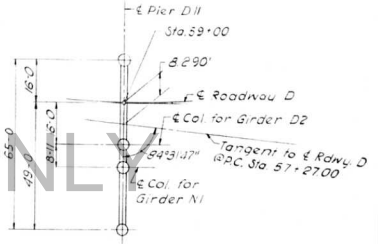


TABLE OF COORDINATES

Pier No.	℄ Roadway D Sta.	N Coordinate	E Coordinate	Azimuth	Fgr. Col Offset	Left Col Offset
D1	49+55.31	9186.160	30758.684	21°04'29"	16·0	16·0
D2	50+46	9153.571	30873.252	21°04'29"	16·0	16·0
D3	51+61	9112.219	30980.559	21°04'29"	16·0	16·0
D4	52+76	9070.866	31087.867	21°04'29"	16·0	16·0
D5	53+66	9036.504	31177.647	21°04'29"	16·0	16·0
D6	54+47	9009.377	31247.430	21°04'29"	19·8	16·0
D7	55+52	8971.621	31345.405	21°04'29"	24·6	16·0
D8	56+33	8942.494	31420.988	21°04'29"	28·2	16·0
D9	57+14	8913.368	31496.571	21°04'29"	31·10	16·0
D10	58+19	8877.805	31595.350	18°09'56"	39·1	16·0
D11	59+00	8854.290	31672.852	15°36'16"	49·0	16·0
D12	59+74	8835.835	31742.511	13°15'52"	16·0	16·0
D13	60+64	8817.368	31832.567	10°25'07"	16·0	16·0
D14	61+79	8800.173	31946.274	6°46'57"	16·0	16·0
D15	62+69	8791.768	32035.872	3°56'12"	16·0	16·0
D16	63+54	8787.923	32120.777	1°14'56"	16·0	16·0
D17	64+62	8788.798	32228.797	177°50'02"	16·0	16·0

Curve D2
P.I. = 61+25.76
Δ = 24°49'19"
D = 3°09'43"
R = 1,812.00'
L = 785.00'
T = 398.76'
E = 43.36'



DETAIL "A"

DRAWN BY R.M.R.
CHK'D BY I.M.
CHECKED BY S.A.B.
APPROVED BY K.A.

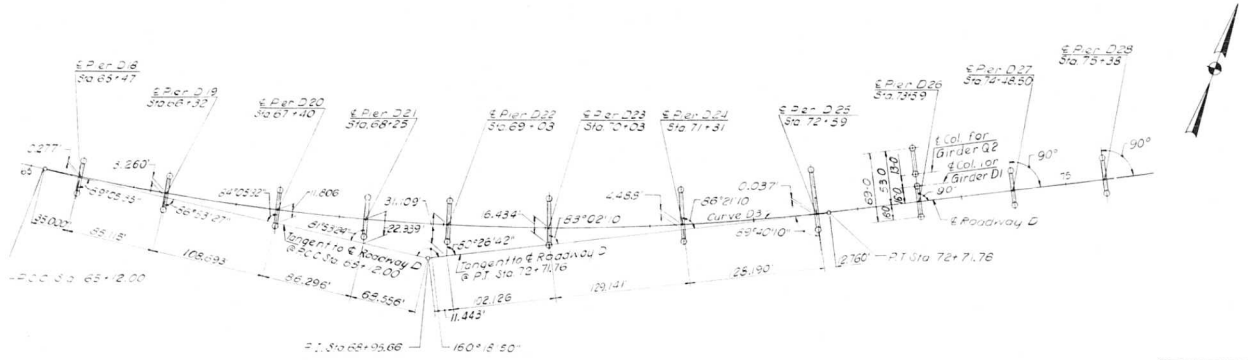
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
GEOMETRIC LAYOUT
PIERS D1 THRU D17
POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

SECTIONS 82-3HVB-1, 82-3HVF&E-1, 82-3HVD-1
F.A.I. RT. 70 ST. CLAIR CO.

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

SHEET 28 OF 526

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVB-1	ST. CLAIR	207	48
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		
	82-3HVFBE-1			47
	82-3HVD-1			82



Curve D 3
P.I. = 68 + 95.66
Δ = 19° 41' 10"
D = 2° 35' 28"
R = 2211.24'
L = 759.76'
T = 383.66'
E = 33.04'

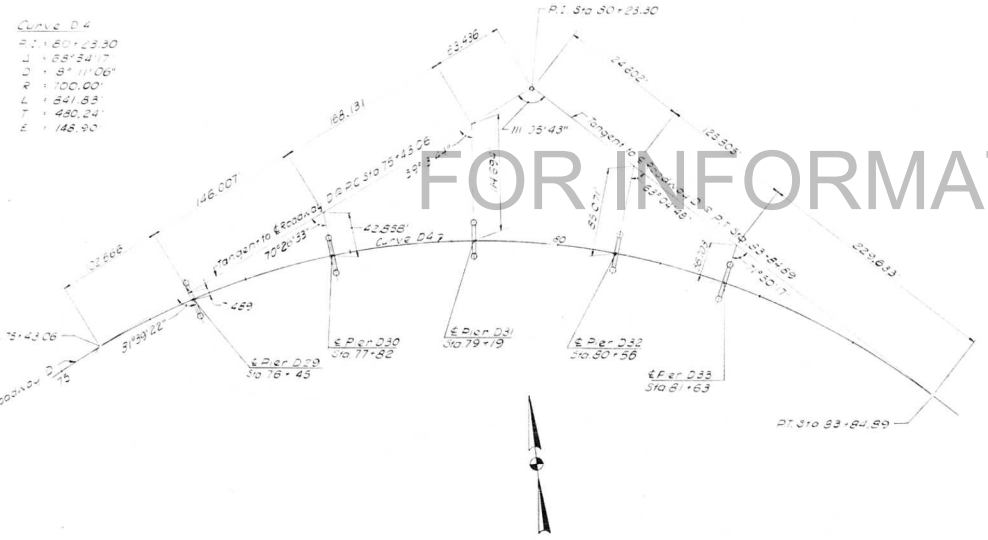


TABLE OF COORDINATES

Pier No.	℄ Roadway D Sta	N Coordinate	E Coordinate	Azimuth	Right Offset	Left Col. Offset
D 6	65+47	8798.330	32313.395	175° 20'45"	16·0	6·1
D 19	66+32	8802.453	32396.161	175° 08'37"	16·0	16·6
D 20	67+40	8817.960	32505.032	170° 20'42"	16·0	18·7
D 21	68+25	8833.822	32588.533	168° 08'34"	16·0	20·10½
D 22	69+03	8851.192	32664.570	166° 07' 8"	16·0	23·7
D 23	70+03	8877.365	32761.076	162° 31' 50"	16·0	27·11½
D 24	71+31	8917.183	32882.705	160° 12' 50"	16·0	34·11
D 25	72+59	8963.975	33001.627	156° 53' 50"	16·0	43·5
D 26	73+59	9003.709	33093.594	156° 34' 00"	16·0	53·0
D 27	74+48.50	9039.302	33175.713	156° 34' 00"	16·0	16·0
D 28	75+38	9074.894	33257.831	156° 34' 00"	16·0	16·0
D 29	76+45	9110.605	33358.622	164° 54' 38"	16·0	16·0
D 30	77+82	9133.040	33498.534	176° 07' 27"	16·0	16·0
D 31	79+19	9128.908	33630.254	7° 20' 16"	16·0	16·0
D 32	80+56	9095.268	33763.559	12° 33' 05"	16·0	16·0
D 33	81+63	9056.620	33862.008	27° 18' 34"	16·0	16·0

D BY R.M.R.
BY I.M.
D BY S.Q.B.
ED BY K.A.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
GEOMETRIC LAYOUT
PIERS D18 THRU D33
POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

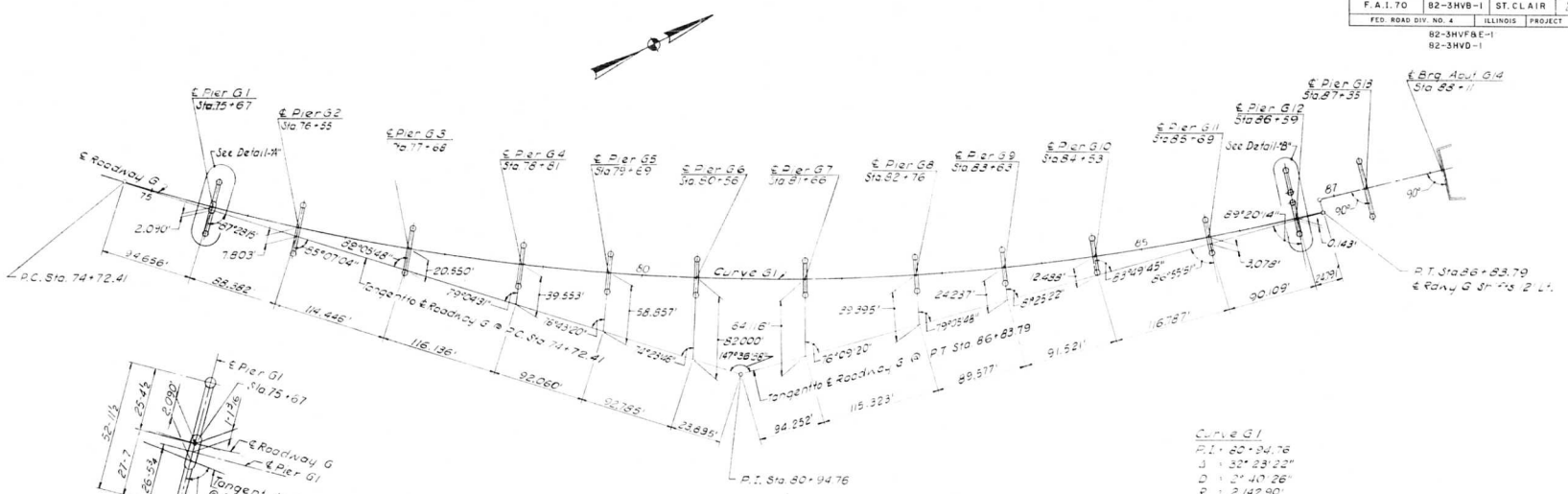
SECTIONS 82-3HVB-1
82-3HVFBE-1
82-3HVD-1

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

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

SHEET 29 OF 526

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVB-1	ST. CLAIR	207	49
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		
	82-3HVF&E-1			48
	82-3HVD-1			83

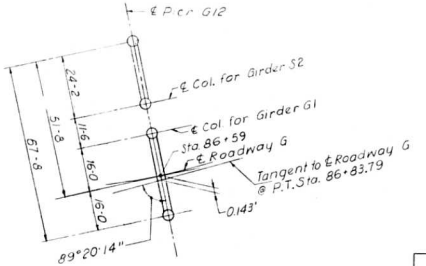


DETAIL - "A"

Curve G1
P.I. = 80+94.76
Δ = 32° 23' 22"
D = 2° 40' 26"
R = 2,142.90'
L = 1,211.39'
T = 622.36'
E = 88.55'

TABLE OF COORDINATES

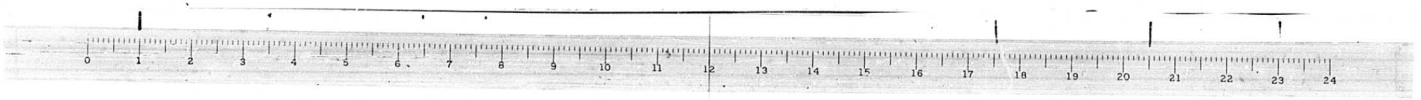
Pier No	℄ Roadway G Sta.	N. Coordinate	E. Coordinate	Azimuth	Right Col Offset	Left Col Offset
G 1	75+67	9792.526	33203.621	130°59'21"	27 - 7	25 - 4½
G 2	76+55	9860.118	33259.962	128°36'10"	26 - 4¹³/₁₆	23 - 2¾
G 3	77+68	9950.204	33328.157	125°36'54"	23 - 10	20 - 10
G 4	78+81	10043.759	33391.508	122°35'37"	20 - 9	18 - 11
G 5	79+69	10118.853	33437.376	120°14'26"	18 - 10	17 - 9
G 6	80+56	10194.882	33479.655	117°54'32"	17 - 5½	16 - 10½
G 7	81+66	10293.362	33528.635	114°55'24"	16 - 4	15 - 3
G 8	82+76	10394.226	33572.497	112°01'56"	16 - 0	15 - 0
G 9	83+63	10475.513	33603.487	109°42'22"	16 - 0	16 - 0
G 10	84+53	10560.854	33632.047	107°17'59"	16 - 0	16 - 0
G 11	85+69	10672.486	33663.528	104°11'53"	16 - 0	16 - 0
G 12	86+59	10760.174	33683.764	101°47'30"	16 - 0	51 - 8
G 13	87+35	10837.033	33686.800	101°07'44"	28 - 0	29 - 11
℄ Brg Abut G14	88+11	10911.604	33701.469	101°07'44"	28 - 0	22 - 9⅝



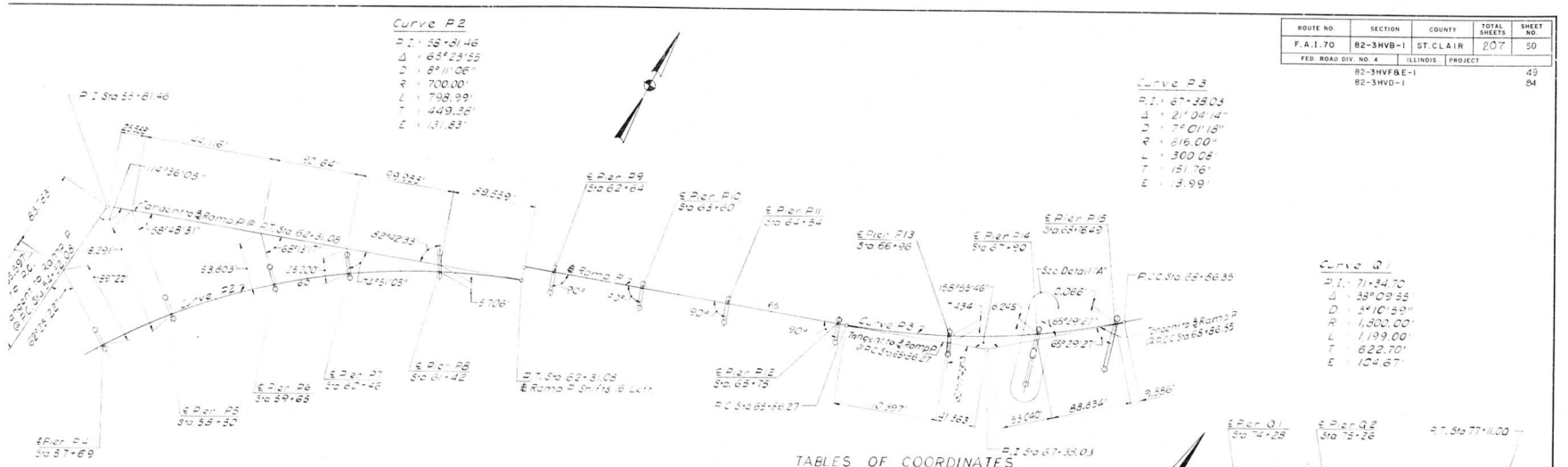
DETAIL - "B"

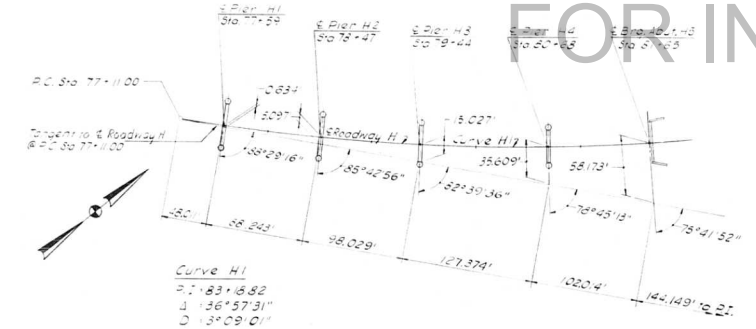
ED BY R.M.R.
I BY I.M.
ED BY S.A.Q.
VED BY K.A.

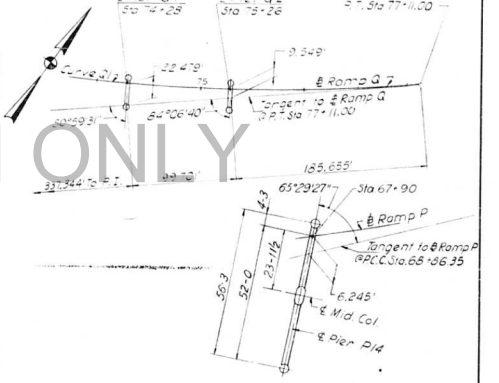
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
GEOMETRIC LAYOUT
PIERS G1 THRU G14
POPLAR STREET BRIDGE APPROACHES
ROADWAY "G"
SECTIONS 82-3HVB-1, 82-3HVF&E-1, 82-3HVD-1
F.A.I. RT. 70 ST. CLAIR CO.
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS
SHEET 30 of 52



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.70	82-3HVB-1	ST. CLAIR	207	50
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		
	82-3HVFBE-1			49
	82-3HVD-1			84







TABLES OF COORDINATES

Pier No.	℄ Ramp P			Azimuth	Right Col Offset	Left Col Offset
	Sta.	N. Coordinate	E. Coordinate			
P4	57+69	8704.826	32408.504	22°10'24"	4'-0	20'-0
P5	58+50	8770.742	32455.501	26°48'12"	4'-0	20'-0
P6	59+68	8854.053	32534.387	33°41'16"	4'-0	20'-0
P7	60+46	8924.414	32597.970	40°50'06"	4'-0	20'-0
P8	61+42	9004.141	32679.999	50°14'21"	4'-0	20'-0
P9	62+64	9096.149	32787.002	59°59'41"	20'-0	4'-0
P10	63+60	9048.991	32877.210	59°59'41"	20'-0	4'-0
P11	64+54	9081.149	32965.538	59°59'41"	20'-0	4'-0
P12	65+75	9122.544	33079.237	59°59'41"	20'-0	4'-0
P13	66+96	9170.748	33190.108	52°17'24"	20'-0	4'-0
P14	67+90	9219.149	33270.626	63°26'00"	52'-0	4'-3
P15	68+76.49	9271.396	33339.354	63°26'00"	45'-4	3'-4

Pier No.	℄ Roadway H			Azimuth	Right Col Offset	Left Col Offset
	Sta.	N. Coordinate	E. Coordinate			
H1	77+59	9296.990	33393.945	136°34'31"	21'-4	21'-4
H2	78+47	9359.004	33456.369	133°48'11"	20'-2	20'-2
H3	79+44	9430.767	33521.813	130°44'5"	19'-0½	19'-0½
H4	80+68	9527.394	33599.287	126°50'28"	17'-0½	17'-10½
℄ Brg. Abut. H5	81+65	9606.537	33655.351	123°47'07"	17'-1⅜	17'-2

Pier No.	℄ Ramp Q			Azimuth	Right Col Offset	Left Col Offset
	Sta.	N. Coordinate	E. Coordinate			
Q1	74+28	9088.251	33138.097	147°05'44"	20'-0	4'-0
Q2	75+26	9143.701	33218.886	143°58'35"	20'-0	4'-0

DETAIL - "A"

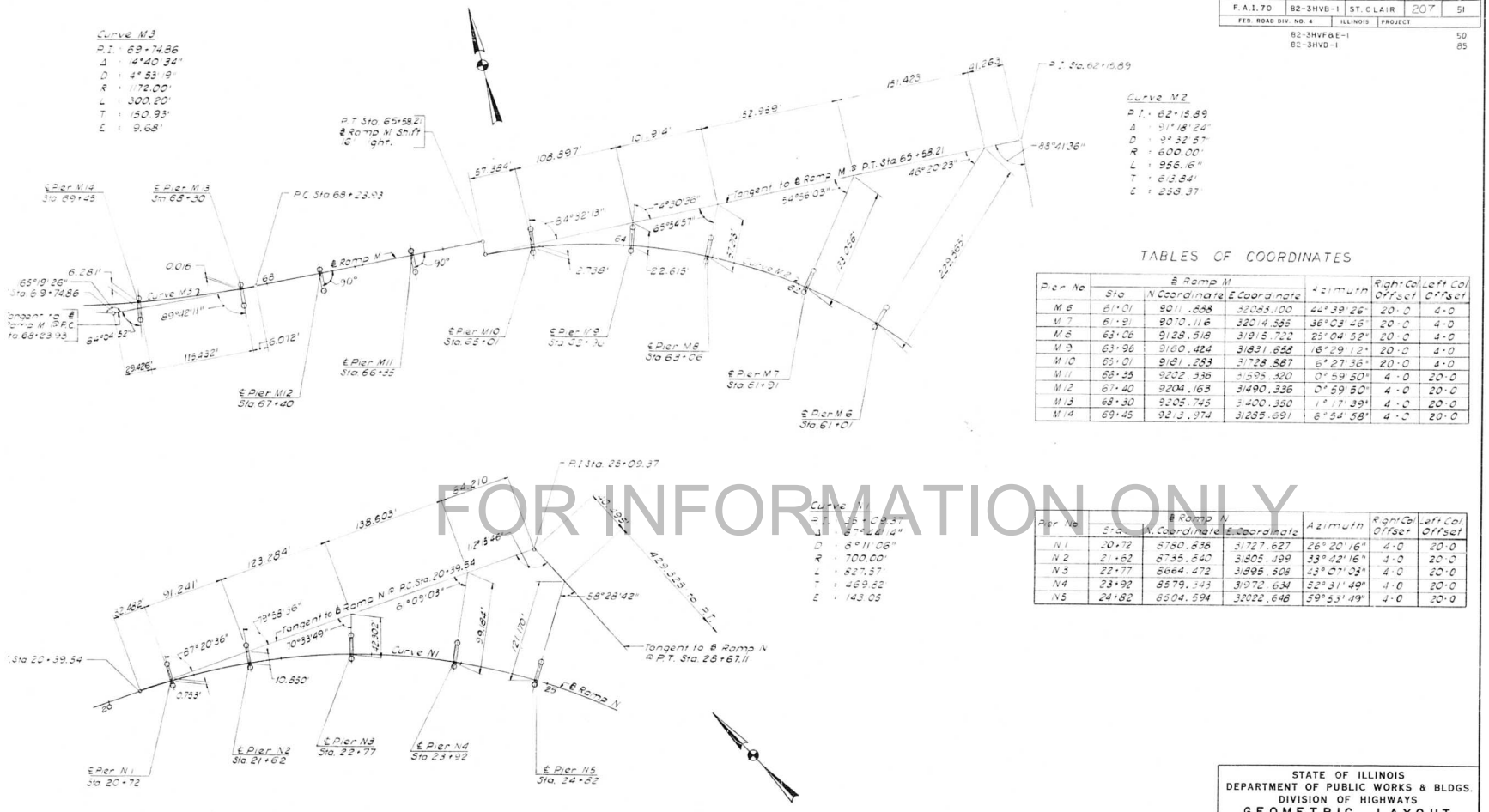
SIGNED BY R.M.R
DRAWN BY I.M.
CHECKED BY S.G.B.
APPROVED BY K.A.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
GEOMETRIC LAYOUT
PIERS P4 THRU P15, Q1 & Q2, H1 THRU H5
POPLAR STREET BRIDGE APPROACHES
RAMPS P & Q AND ROADWAY "H"
SECTIONS 82-3HVB-1
82-3HVFBE-1
82-3HVD-1
F.A.I. RT. 70 ST. CLAIR CO.

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

SHEET 31 OF 526

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVB-1	ST. CLAIR	207	51
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		
		82-3HVF&E-1		50
		82-3HVD-1		85



TABLES OF COORDINATES

Pier No	℄ Ramp M			Azimuth	Right Col Offset	Left Col Offset
	Sta	N Coordinate	E Coordinate			
M6	61+01	9011.888	32083.100	44°39'26"	20.0	4.0
M7	61+91	9070.116	32014.565	36°09'46"	20.0	4.0
M8	63+06	9128.518	31915.722	25°04'52"	20.0	4.0
M9	63+96	9160.424	31831.658	16°29'12"	20.0	4.0
M10	65+01	9161.283	31728.567	6°27'36"	20.0	4.0
M11	66+35	9202.936	31595.320	0°59'50"	4.0	20.0
M12	67+40	9204.163	31490.336	0°59'50"	4.0	20.0
M13	68+30	9205.745	31400.350	1°17'39"	4.0	20.0
M14	69+45	9213.971	31285.691	6°54'58"	4.0	20.0

Pier No	℄ Ramp N			Azimuth	Right Col Offset	Left Col Offset
	Sta	N Coordinate	E Coordinate			
N1	20+72	8780.836	31727.627	26°20'16"	4.0	20.0
N2	21+62	8735.640	31805.499	33°42'16"	4.0	20.0
N3	22+77	8664.472	31895.508	43°07'04"	4.0	20.0
N4	23+92	8579.343	31972.634	52°31'49"	4.0	20.0
N5	24+62	8504.594	32022.648	59°53'49"	4.0	20.0

ED BY R.M.R.
BY I.M.
D BY S.Q.B.
ED BY K.A.

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

GEOMETRIC LAYOUT

PIERS M6 THRU M14, N1 THRU N5

POPLAR STREET BRIDGE APPROACHES
RAMPS "M" & "N"

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

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

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

SHEET 32 OF 526

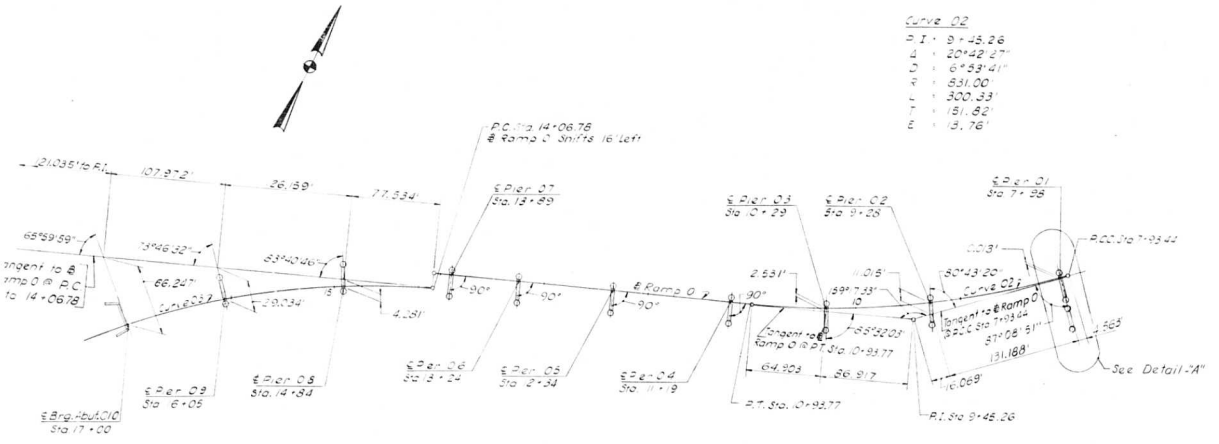
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVB-1	ST. CLAIR	207	52
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

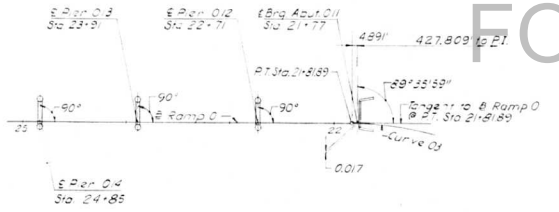
82-3HVFB E-1 51
82-3HVD-1 86

TABLES OF COORDINATES

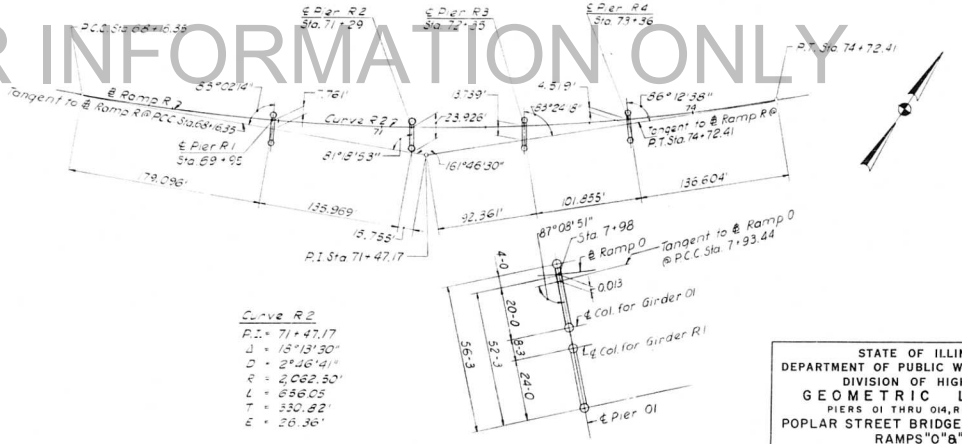
Pier No.	℄ Ramp O Sta.	N. Coordinate	E. Coordinate	Azimuth	Rdwy Col Offset	Left Col Offset
O 1	7+98	9736.343	33119.865	138°08'53"	4'-0	52'-3
O 2	9+28	9652.881	33020.368	144°29'24"	4'-0	20'-0
O 3	0+29	9599.350	32934.794	151°27'14"	4'-0	20'-0
O 4	11+19	9560.352	32853.716	155°55'11"	4'-0	20'-0
O 5	12+34	9513.430	32748.724	155°55'11"	4'-0	20'-0
O 6	13+24	9476.705	32666.556	155°55'11"	4'-0	20'-0
O 7	13+89	9450.187	32607.213	155°55'11"	4'-0	20'-0
O 8	14+84	9392.997	32528.887	149°35'57"	20'-0	4'-0
O 9	16+05	9323.073	32430.322	139°41'43"	20'-0	4'-0
℄ Brg Abut 010	17+00	9256.902	32362.259	131°55'10"	20'-0	4'-0
℄ Brg Abut 011	21+77	8824.370	32184.001	92°52'35"	20'-0	4'-0
O 12	22+71	8730.459	32179.923	92°28'34"	20'-0	4'-0
O 13	23+91	8610.571	32174.738	92°28'34"	20'-0	4'-0
O 14	24+85	8516.658	32170.677	92°28'34"	20'-0	4'-0

Pier No.	℄ Ramp R Sta.	N. Coordinate	E. Coordinate	Azimuth	Rdwy Col Offset	Left Col Offset
R 1	69+95	9411.773	32760.126	46°46'50"	20'-0	4'-0
R 2	71+29	9488.774	32869.764	43°03'29"	20'-0	4'-0
R 3	72+35	9554.629	32972.810	40°06'48"	20'-0	4'-0
R 4	73+36	9621.268	33048.693	37°18'28"	20'-0	4'-0





Curve O3
P.I. = 8+39.48
Δ = 63°26'37"
D = 8°11'06"
R = 700.00'
L = 775.11'
T = 432.70'
E = 122.94



Curve R2
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'

DETAIL - "A"

SIGNED BY R.M.R.
DRAWN BY I.M.
CHECKED BY S.Q.B.
PROVED BY K.A.

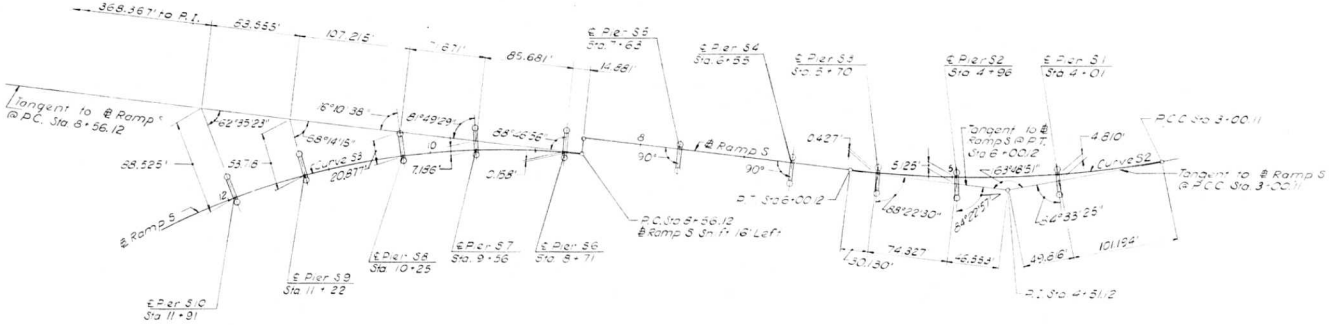
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
GEOMETRIC LAYOUT
PIERS O1 THRU O14, R1 THRU R4
POPLAR STREET BRIDGE APPROACHES
RAMPS "O" & "R"
SECTIONS 82-3HVB-1
82-3HVFB E-1
82-3HVD-1
F.A.I. RT. 70 ST. CLAIR CO.

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

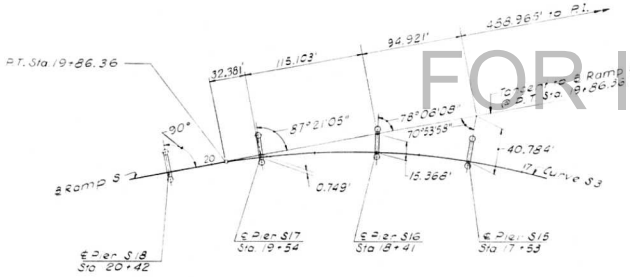
SHEET 33 OF 526

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVB-1	ST. CLAIR	207	53
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

82-3HVF&E-1 52
82-3HVD-1 87



Curve S2
P.I. = 4+51.12
Δ = 16°11'09"
D = 5°23'42"
R = 1062.00'
L = 300.01'
T = 151.01'
E = 10.66'



Curve S3
P.I. = 18+67.69
Δ = 93°30'00"
D = 5°11'06"
R = 700.00'
L = 1,180.24'
T = 731.47'
E = 312.38'

TABLE OF COORDINATES

Per No.	℄ Ramp S Sta.	N Coordinate	E Coordinate	Azimuth	Rt of Cl Offset	Left Cl Offset
S1	4+01	10702.138	33609.505	114°08'23"	4'-0	20'-0
S2	4+96	10617.298	33566.830	119°15'34"	4'-0	20'-0
S3	5+70	10554.055	33528.436	123°5'27"	4'-0	20'-0
S4	6+55	10484.086	33490.178	124°52'57"	4'-0	20'-0
S5	7+63	10395.491	33418.413	124°52'57"	4'-0	20'-0
S6	8+71	10297.656	33369.904	123°39'53"	20'-0	4'-0
S7	9+56	10224.227	33327.191	116°42'26"	20'-0	4'-0
S8	10+25	10161.161	33299.266	111°03'35"	20'-0	4'-0
S9	11+22	10068.518	33270.784	103°07'12"	20'-0	4'-0
S10	11+91	10000.657	33258.456	97°28'20"	20'-0	4'-0
S15	17+53	9473.396	33404.898	51°28'19"	20'-0	4'-0
S16	18+41	9408.375	33463.891	44°16'09"	20'-0	4'-0
S17	19+54	9336.357	33550.608	35°01'12"	20'-0	4'-0
S18	20+42	9288.616	33624.722	32°32'17"	20'-0	4'-0

DESIGNED BY R.M.R.
DRAWN BY I.M.
CHECKED BY S.Q.G.
APPROVED BY K.A.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
GEOMETRIC LAYOUT
PIERS S1 THRU S18
POPLAR STREET BRIDGE APPROACHES
RAMP "S"

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

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

SHEET 54 OF 526

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVB-1	ST. CLAIR	207	54
	82-3HVF 8E-1			246
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

ROADWAY A

Pier No.	Girder A1	Girder A2
A1 - Span A1	441.30	442.11
A2	437.51	438.35
A3	435.08	436.06
A4	434.50	436.54
A5 - Span A4	433.94	437.69
A5 Span A5	433.39	437.69
A6	437.02	439.47
A7	437.11	439.67
A8 - Span A7	438.17	440.73
A8 - Span A8	438.17	440.73
A9	437.44	440.00
A10	438.76	441.32
A11-Span A10	439.73	442.29
A11-Span A11	439.73	442.29
A12-Span A11	440.09	442.68
A12-Span A12	440.09	442.68
A13	440.03	442.68
A14	439.78	442.58
A15-Span A14	439.97	442.93
A15-Span A15	439.97	442.93
A16	438.89	442.06
A17	440.29	443.79
A18-Span A17	440.71	444.52
A18-Span A18	440.71	444.52
A19	439.40	443.52
A20	441.75	445.69
A21-Span A20	444.51	447.74
A21-Span A21	444.51	447.74
A22	451.09	451.80
A23	454.57	453.85
A24	458.39	456.60
A25-Span A24	458.10	459.54

RAMP M

Pier No.	Girder M1	Girder M2
M6 - Span M7	470.68	468.56
M7	467.78	465.86
M8	463.79	461.87
M9 - Span M9	459.85	457.93
M9 - Span M10	459.85	457.93
M10	454.00	452.30
M11	446.10	445.56
M12-Span M12	441.66	442.14
M12-Span M13	441.66	442.14
M13	437.90	439.25
M14	436.00	437.92
A5 - Span A5M	433.94	437.39

RAMP R

Pier No.	Girder R1	Girder R2
A21-Span A21-R	444.51	448.22
R1	448.74	450.60
R2	451.46	453.32
R3-Span R2	453.75	455.61
R3-Span R3	453.75	455.61
R4	453.46	456.32
O1	453.41	456.31
O1 - Span O1-R	452.69	453.38

ROADWAY D

Pier No	Girder D1	Girder D2
D1-Span D1	442.44	441.90
D2	438.99	438.49
D3	437.00	436.50
D4	436.90	436.40
D5 - Span D4	437.45	436.95
D5 - Span D5	437.45	436.95
D6	437.46	436.91
D7	437.26	436.64
D8-Span D7	438.07	438.68
D8 Span D8	438.07	438.68
D9	436.62	436.15
D10	437.64	440.55
D11-Span D10	438.26	440.85
D11-Span D11	438.26	441.09
D12-Span D11	439.99	442.55
D12-Span D12	439.99	442.55
D13	439.97	442.53
D14	439.73	442.29
D15-Span D14	441.06	443.62
D15-Span D15	441.06	443.62
D16	440.29	442.85
D17	440.20	443.76
D18-Span D17	439.36	441.61
D18-Span D18	439.36	441.61
D19	438.51	440.88
D20	437.12	439.63
D21-Span D20	437.63	440.89
D21-Span D21	437.63	440.89
D22-Span D21	436.70	439.57
D22-Span D22	436.70	439.57
D23	434.48	437.66
D24	433.61	437.36
D25	435.28	439.06
D26-Span D25	437.12	439.79
D26-Span D26	440.66	439.79
D27	441.71	441.13
D28-Span D27	443.50	441.85
D28-Span D28	443.50	441.85
D29	443.31	440.75
D30	444.67	442.11
D31	447.16	443.60
D32	447.42	444.86
D33-Span D32	449.80	447.24

RAMP N

Pier No	Girder N1	Girder N2
D11 Span D11-N	441.09	440.85
N1 - Span D11-N	442.09	441.13
N1-Span N1	442.09	441.13
N2	442.37	440.63
N3	441.61	439.69
N4	440.62	438.70
N5 - Span N4	440.46	438.54

RAMP Q

Pier No.	Girder Q1	Girder Q2
D26-Span D26Q	437.16	440.66
Q1	440.38	442.30
Q2	441.65	443.57
P14-Span Q2	442.80	443.63

ROADWAY G

Pier No.	Girder G1	Girder G2
G1 - Span G1	449.15	453.38
G2	448.64	452.61
G3	447.18	450.75
G4	447.29	450.47
G5 - Span G4	448.09	451.01
G5 - Span G5	448.09	451.01
G6	446.60	449.35
G7	446.09	448.70
G8	446.29	448.85
G9 - Span G8	446.26	448.82
G9 - Span G9	446.26	448.82
G10	444.90	447.46
G11	441.74	444.30
G12-Span G11	439.77	441.63
G12-Span G12	437.61	441.63
G13	434.63	436.43
G14 (Abutment)	433.68	433.84

RAMP S

Pier No.	Girder S1	Girder S2
G12 Span S1	437.61	441.43
S1	441.42	443.34
S2	445.03	446.96
S3 - Span S3	448.55	450.14
S3 - Span S4	448.55	450.14
S4	452.31	453.04
S5	457.31	456.96
S6	462.53	461.10
S7 - Span S7	466.93	465.01
S7 - Span S8	466.93	465.01
S8	469.43	467.51
S9	473.31	471.39
S10 - Span S10	476.32	473.40
S16 - Span S16	489.01	487.09
S16	487.55	485.63
S17	484.70	483.11
S18 - Span S18	481.49	480.68

RAMP O

Pier No.	Girder O1	Girder O2
G1 Span O1	452.89	449.15
O1	452.71	450.78
O2	452.51	450.59
O3 - Span O3	452.51	450.59
O3 - Span O4	452.51	450.59
O4	449.47	448.40
O5	445.44	445.30
O6 - Span O6	441.53	442.13
O6 - Span O7	441.53	442.13
O7 - Span O7	437.73	438.87
O7 - Span O8	437.73	438.87
O8	430.89	432.74
O9	424.22	426.14
O9 (Abutment)	420.30	422.22
O11 (Abutment)	419.96	418.45
O12	419.62	420.27
O13	420.05	420.54
O14 - Span O14	428.53	429.02

ROADWAY H

Pier No.	Girder H1	Girder H2
H1 - Span H1	439.71	443.12
H2 - Span H1	436.51	439.73
H2 - Span H2	436.51	439.73
H3	433.66	436.71
H4	432.84	435.70
H5 (Abutment)	431.86	434.61

RAMP P

Pier No.	Girder P1	Girder P2
P4 - Span P4	464.86	462.34
P5	461.48	462.56
P6	464.93	463.01
P7 - Span P6	464.59	462.67
P7 - Span P7	464.59	462.67
P8	462.25	460.33
P9	457.37	456.33
P10 - Span P9	453.77	453.43
P10 - Span P10	453.77	453.43
P11	448.73	449.07
P12	444.13	445.36
P13	441.66	443.58
P14 - Span P13	440.25	442.80
P14 - Span P14	440.11	443.76
P15 - Span P15	440.11	443.76
H1 - Span P15	439.71	443.12

Note: Bearing Elevations are to Top of Concrete Piers or Abutments.

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

BEARING ELEVATIONS

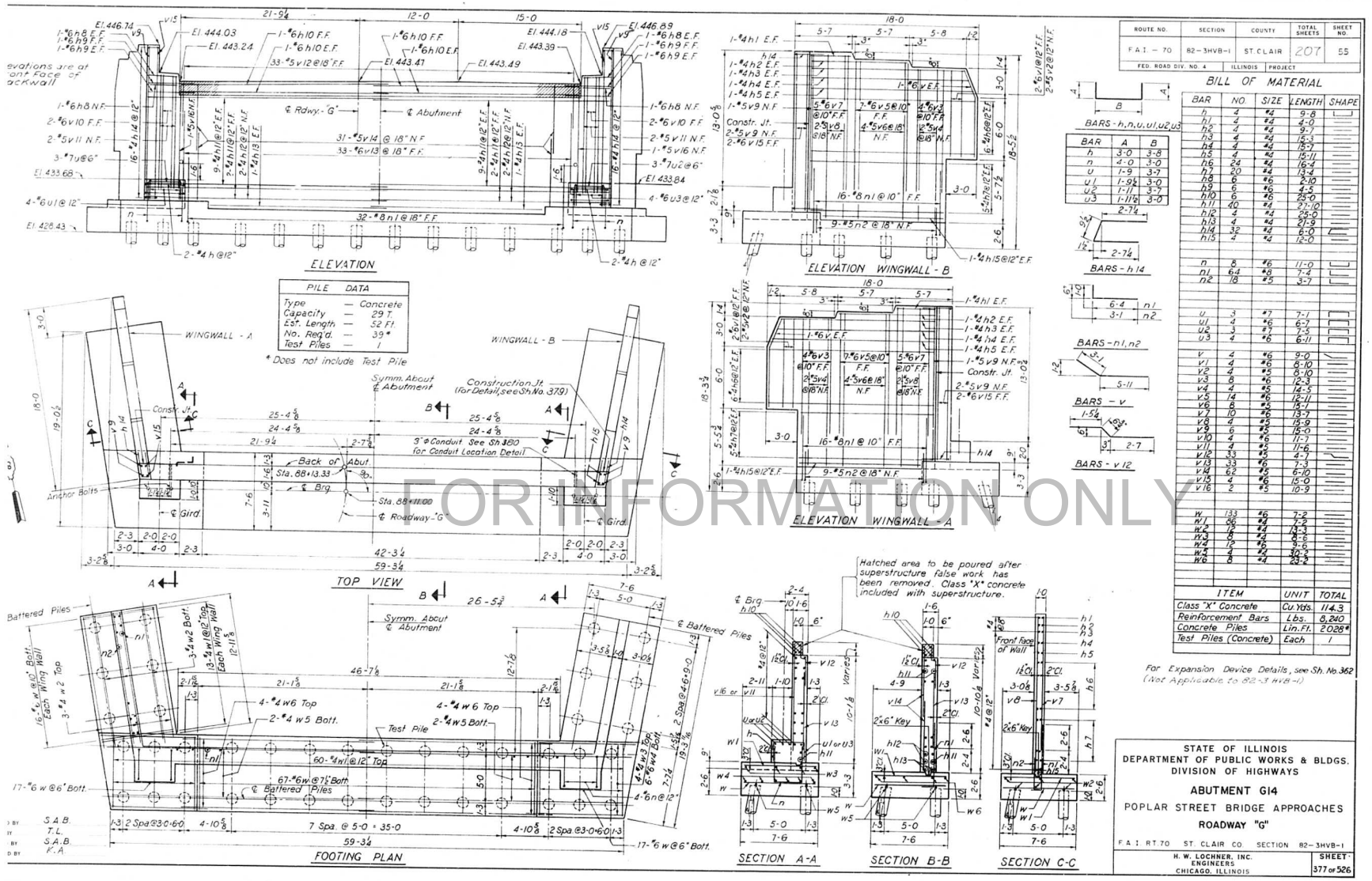
POPLAR STREET BRIDGE APPROACHES

F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-1 82-3HVF 8E-1

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

SHEET 376 of 526

BY D.C.
C.G.
Y E.T.
BY K.A.



PILE DATA	
Type	— Concrete
Capacity	— 29 T.
Est. Length	— 52 Ft.
No. Req'd.	— 39*
Test Piles	— 1

* Does not include Test Pile

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. - 70	82-3HVB-1	ST. CLAIR	207	55
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
h	4	#4	9-8	
h1	4	#4	4-0	
h2	4	#4	9-7	
h3	4	#4	12-3	
h4	4	#4	15-7	
h5	4	#4	15-11	
h6	24	#4	16-4	
h7	20	#4	13-4	
h8	6	#6	2-10	
h9	6	#6	4-5	
h10	6	#6	25-0	
h11	40	#4	27-10	
h12	4	#4	23-0	
h13	4	#4	21-9	
h14	32	#4	6-0	
h15	4	#4	12-0	
n	8	#6	11-0	
n1	64	#8	7-4	
n2	18	#5	3-7	
u	3	#7	7-1	
u1	4	#6	6-7	
u2	3	#7	7-5	
u3	4	#6	6-11	
v	4	#6	9-0	
v1	4	#6	6-10	
v2	4	#5	8-10	
v3	8	#6	12-3	
v4	4	#5	14-5	
v5	14	#6	12-11	
v6	8	#5	15-1	
v7	10	#6	13-7	
v8	4	#5	15-9	
v9	6	#5	15-0	
v10	4	#6	11-7	
v11	4	#5	11-6	
v12	33	#5	4-7	
v13	33	#6	7-3	
v14	62	#5	6-10	
v15	4	#6	15-0	
v16	2	#5	10-9	
w	133	#6	7-2	
w1	66	#8	7-2	
w2	18	#4	13-3	
w3	8	#4	9-8	
w4	12	#5	5-6	
w5	4	#4	30-4	
w6	8	#4	25-2	

ITEM	UNIT	TOTAL
Class "X" Concrete	Cu. Yds.	114.3
Reinforcement Bars	Lbs.	8,240
Concrete Piles	Lin. Ft.	2028*
Test Piles (Concrete)	Each	1

For Expansion Device Details, see Sh. No. 362 (Not Applicable to 82-3 HVB-1)

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

ABUTMENT G14

POPLAR STREET BRIDGE APPROACHES

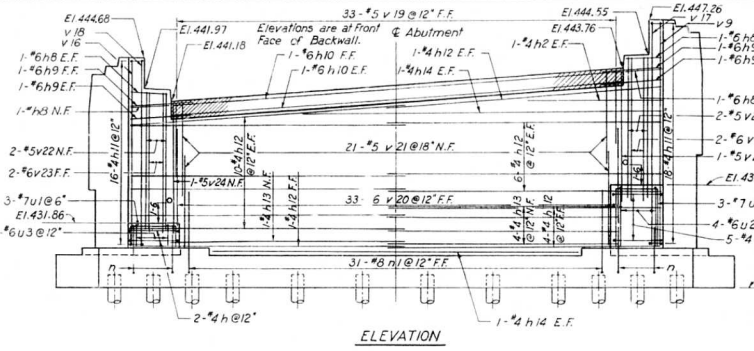
ROADWAY "G"

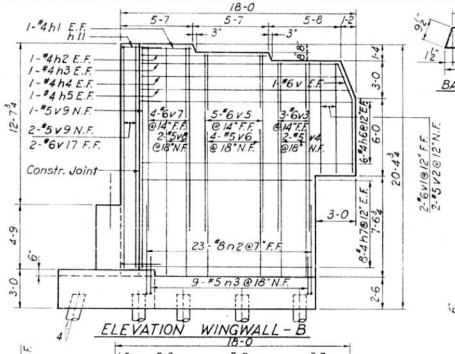
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-1

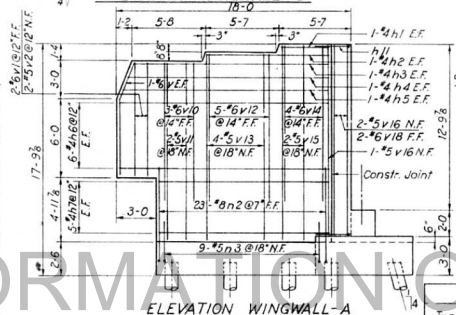
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

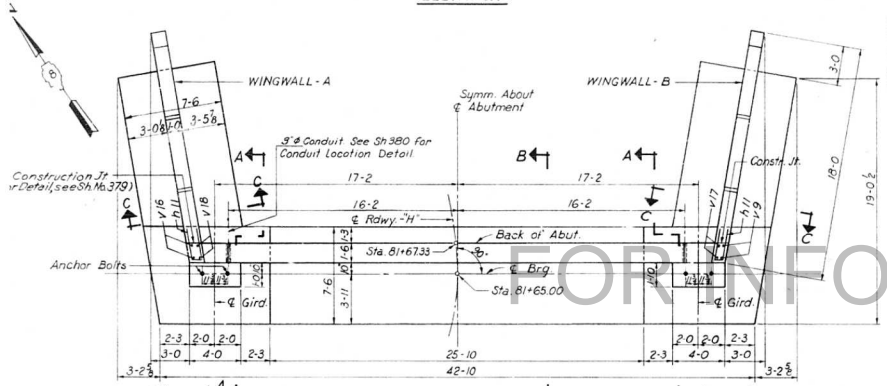
SHEET 377 of 526

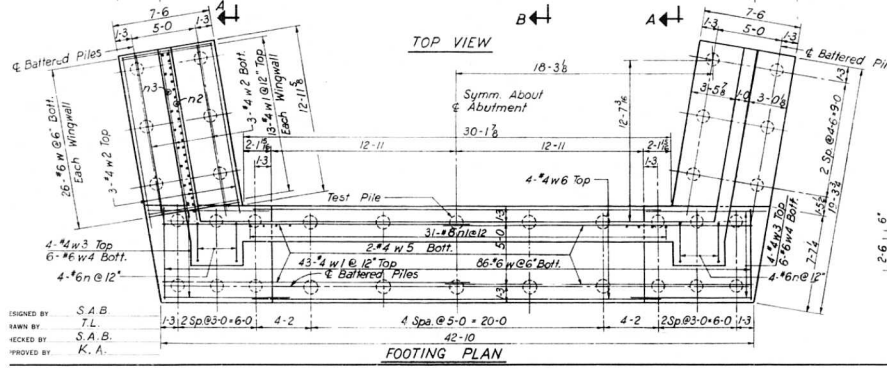
DESIGNED BY S.A.B.
DRAWN BY T.L.
CHECKED BY S.A.B.
QUANTITIES BY K.A.

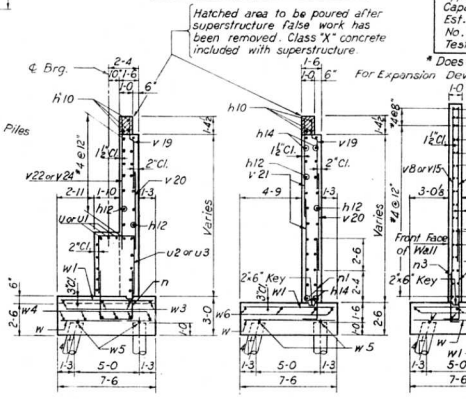


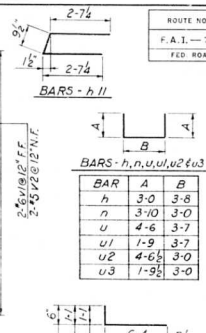












BAR	A	B
h	3-0	3-8
n	3-10	3-0
u	4-6	3-7
u1	1-9	3-7
u2	4-6½	3-0
u3	1-9½	3-0

PILE DATA		
Type	—	Concrete
Capacity	—	28 T.
Est. length	—	50 Ft.
No. Req'd.	—	33 *
Test Piles	—	1

* Does not include test pile.

For Expansion Device Details, see Sh. No. 362 (Not Applicable to 82-3HVB-1)

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. — 70	82-3HVB-1	ST. CLAIR	207	56
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
h	7	#4	9-8	
h1	4	#4	4-0	
h2	6	#4	9-7	
h3	4	#4	15-4	
h4	4	#4	15-7	
h5	4	#4	15-11	
h6	24	#4	16-4	
h7	26	#4	13-4	
h8	6	#6	5-10	
h9	6	#6	8-5	
h10	3	#6	32-2	
h11	34	#4	6-0	
h12	39	#4	19-7	
h13	5	#4	16-2	
h14	4	#4	25-7	
n	8	#6	10-8	
n1	31	#8	7-5	
n2	46	#8	6-2	
n3	18	#5	3-7	
u	3	#7	12-7	
u1	3	#7	9-1	
u2	4	#6	12-1	
u3	4	#6	6-7	
v	4	#6	9-0	
v1	4	#6	8-10	
v2	4	#5	8-10	
v3	3	#6	13-5	
v4	2	#5	16-6	
v5	5	#6	14-1	
v6	4	#5	17-2	
v7	4	#6	14-9	
v8	2	#5	17-10	
v9	3	#5	17-4	
v10	3	#6	10-10	
v11	2	#5	13-11	
v12	5	#6	11-6	
v13	4	#6	14-7	
v14	4	#6	12-7	
v15	2	#5	15-3	
v16	3	#5	14-9	
v17	2	#6	17-4	
v18	2	#6	14-9	
v19	33	#6	6-10	
v20	33	#6	7-9	
v21	42	#5	7-4	
v22	4	#6	11-6	
v23	4	#6	11-4	
v24	2	#5	10-4	
w	138	#6	7-3	
w1	69	#4	7-6	
w2	12	#4	13-3	
w3	8	#4	8-6	
w4	12	#6	9-6	
w5	4	#4	22-3	
w6	4	#4	28-10	

ITEM	UNIT	TOTAL
Class "X" Concrete	Cu. Yds.	94.9
Reinforcement Bars	Lbs.	6 130
Concrete Piles	Lin. Ft.	1,650*
Test Piles (Concrete)	Each	1

DESIGNED BY	S.A.B.
DRAWN BY	T.L.
CHECKED BY	S.A.B.
APPROVED BY	K.A.

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

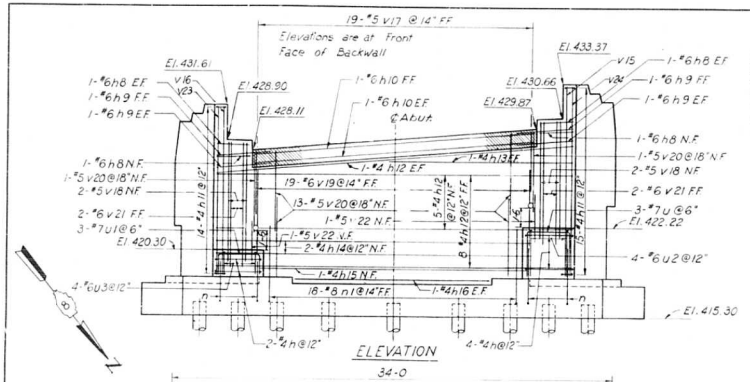
ABUTMENT H5

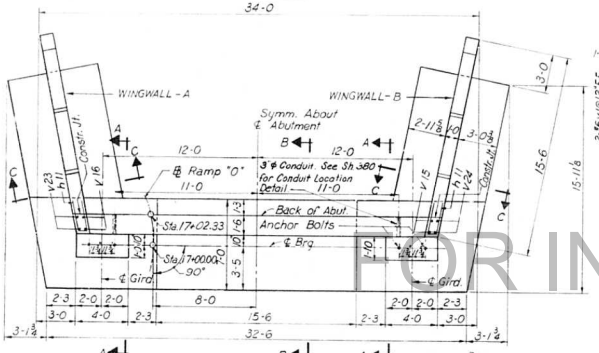
POPLAR STREET BRIDGE APPROACHES
ROADWAY "H"

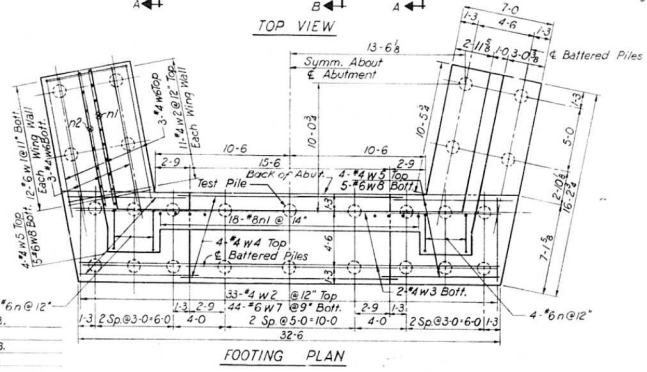
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-1

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

SHEET 378 OF 526



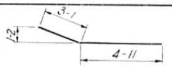


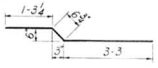


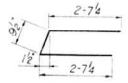
PILE DATA

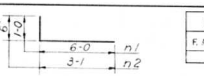
Type	— Concrete
Capacity	— 23 T.
Est. Length	— 42 Ft.
No. Req'd.	— 25 *
Test Piles	— 1

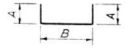
* Does not include Test Pile



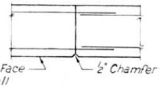


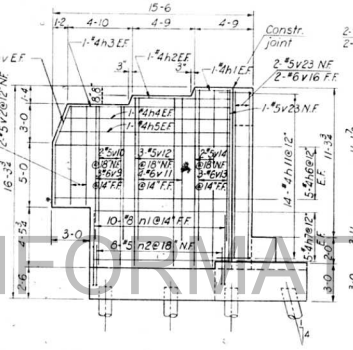




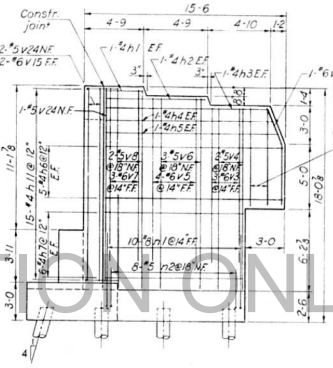


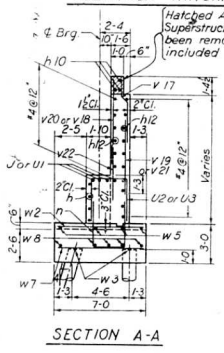
BAR	A	B
h	3-0	3-8
n	3-10	3-0
u	3-8	3-7
u1	1-9	3-7
u2	3-8½	3-0
u3	1-10	3-0

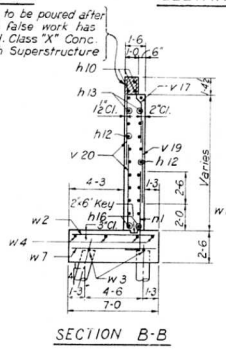


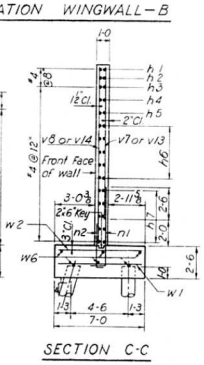


Hatched Area to be poured after Superstructure False work has been removed. Class "X" Conc. included with Superstructure









ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I. —70	82—3HVB—1	ST. CLAIR	207	57
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
h	6	#4	3-8	
h1	4	#4	3-2	
h2	4	#4	7-11	
h3	4	#4	12-9	
h4	4	#4	13-1	
h5	4	#4	13-5	
h6	20	#4	13-10	
h7	22	#4	10-10	
h8	6	#6	2-10	
h9	6	#6	5-2	
h10	3	#6	21-9	
h11	29	#4	6-0	
h12	15	#4	27-10	
h13	2	#4	14-0	
h14	2	#4	24-9	
h15	1	#4	21-8	
h16	2	#4	15-4	
n	5	#6	10-8	
n1	38	#8	7-0	
n2	16	#5	3-7	
u	3	#7	10-11	
u1	3	#7	7-1	
u2	4	#6	10-5	
u3	4	#6	6-8	
V	4	#6	6-0	
V1	4	#6	7-10	
V2	4	#6	7-10	
V3	3	#6	12-2	
V4	2	#5	14-2	
V5	4	#6	12-10	
V6	3	#5	14-10	
V7	3	#6	13-6	
V8	2	#5	15-6	
V9	3	#6	10-5	
V10	2	#5	12-5	
V11	4	#6	11-1	
V12	3	#5	13-1	
V13	3	#6	11-9	
V14	2	#6	13-9	
V15	2	#6	15-0	
V16	2	#6	13-3	
V17	19	#5	5-1	
V18	4	#5	9-7	
V19	19	#5	6-2	
V20	28	#5	6-4	
V21	4	#6	9-9	
V22	2	#5	3-5	
V23	3	#5	13-3	
V24	3	#5	15-0	
W1	24	#6	6-8	
W2	55	#4	6-8	
W3	2	#4	32-10	
W4	4	#4	17-2	
W5	8	#4	8-5	
W6	12	#4	11-0	
W7	44	#6	6-8	
W8	10	#6	9-6	

ITEM	UNIT	TOTAL
Class "X" Concrete	Cu. Yds.	67.1
Reinforcement Bars	Lbs.	5730
Concrete Piles	Lin. Ft.	1050
Test Piles (Concrete)	Each	1

For Expansion Device Details, See Sh. No. 362
(Not Applicable to B2-3 HVB-1)

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

ABUTMENT 010

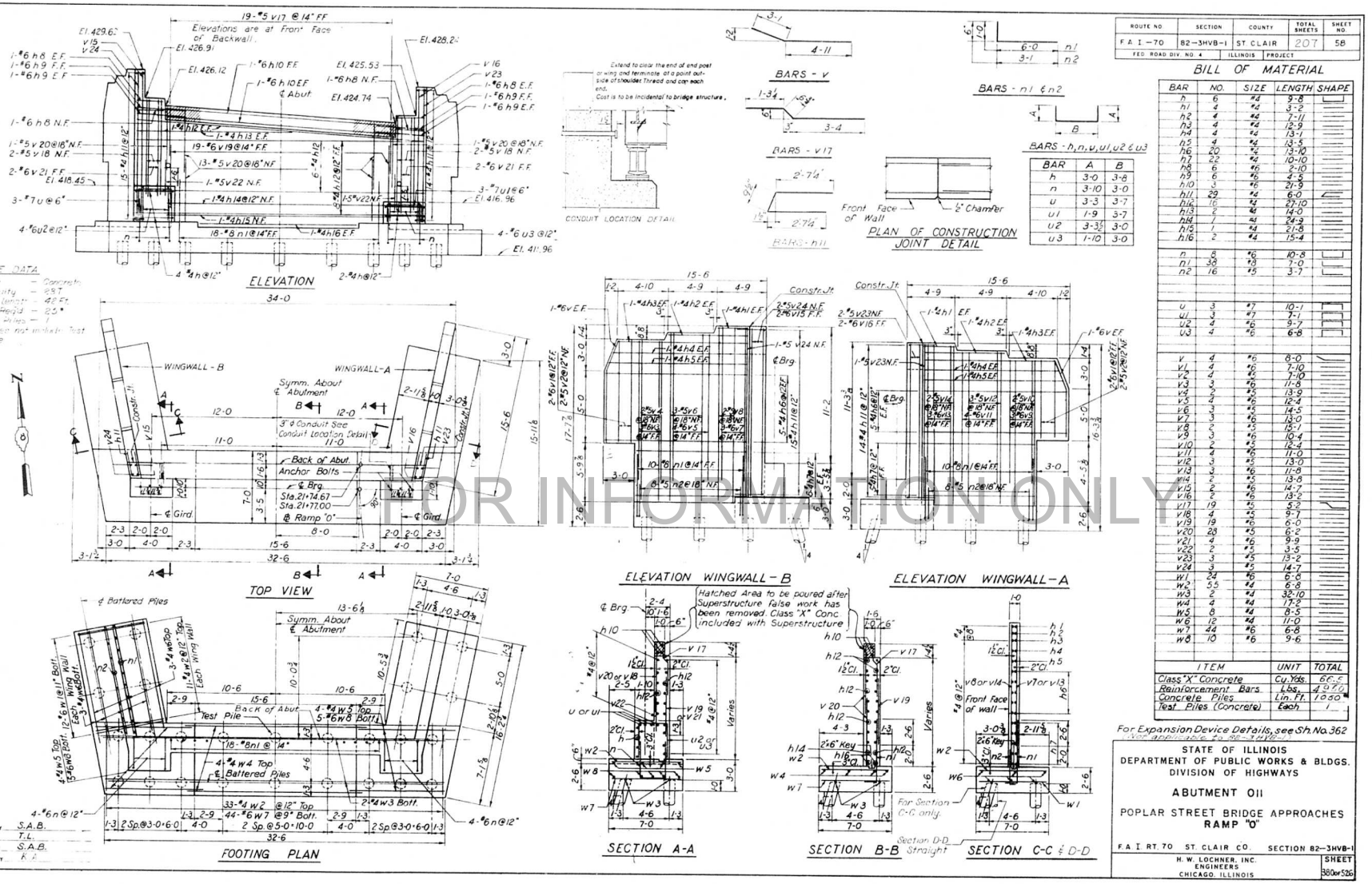
POPLAR STREET BRIDGE APPROACHES
RAMP "0"

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

DESIGNED BY S.A.B.
DRAWN BY T.L.
CHECKED BY S.A.B.
APPROVED BY K.A.

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

SHEET 57 OF 57 SHEETS



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I – 70	82–3HVB–I	ST. CLAIR	207	58
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
h	6	#4	3-8	
h1	4	#4	3-2	
h2	4	#4	7-11	
h3	4	#4	12-9	
h4	4	#4	13-1	
h5	4	#4	13-5	
h6	20	#4	13-10	
h7	22	#4	10-10	
h8	6	#6	2-10	
h9	6	#6	4-5	
h10	3	#6	21-9	
h11	29	#4	6-0	
h12	16	#4	27-10	
h13	2	#4	14-0	
h14	1	#4	24-3	
h15	1	#4	21-8	
h16	2	#4	15-4	
n	8	#6	10-8	
n1	38	#9	7-0	
n2	16	#5	3-7	
u	3	#7	10-1	
u1	3	#7	7-1	
u2	4	#6	9-7	
u3	4	#6	6-8	
v	4	#6	8-0	
v1	4	#6	7-10	
v2	4	#6	7-10	
v3	3	#6	11-8	
v4	5	#5	13-9	
v5	4	#6	12-4	
v6	3	#5	14-5	
v7	3	#6	13-0	
v8	2	#5	15-1	
v9	3	#6	10-4	
v10	2	#6	12-4	
v11	4	#6	11-0	
v12	3	#5	13-0	
v13	3	#6	11-8	
v14	2	#5	13-8	
v15	2	#6	14-7	
v16	2	#6	13-2	
v17	19	#5	5-2	
v18	4	#5	8-7	
v19	4	#6	6-0	
v20	28	#5	6-2	
v21	4	#6	9-9	
v22	2	#5	3-5	
v23	3	#5	13-2	
v24	3	#5	14-7	
w1	24	#6	6-8	
w2	55	#4	6-8	
w3	2	#4	32-10	
w4	4	#4	17-2	
w5	8	#4	8-5	
w6	12	#4	11-0	
w7	44	#6	6-8	
w8	10	#6	9-6	

ITEM	UNIT	TOTAL
Class "X" Concrete	Cu.Yds.	66.5
Reinforcement Bars	Lbs.	4970
Concrete Piles	Lin. Ft.	1050
Test Piles (Concrete)	Each	1

For Expansion Device Details, see Sh. No. 362
Not applicable to 82–3HVB–I

PILE DATA
Type — Concrete
Capacity — 98T.
Est. Length — 42'-0"
No. Req'd — 60 *
Test Piles — 1
* Does not include Test Pile

DESIGNED BY S.A.B.
DETAILED BY T.L.
CHECKED BY S.A.B.
QUANTITIES BY K.P.

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

ABUTMENT O11

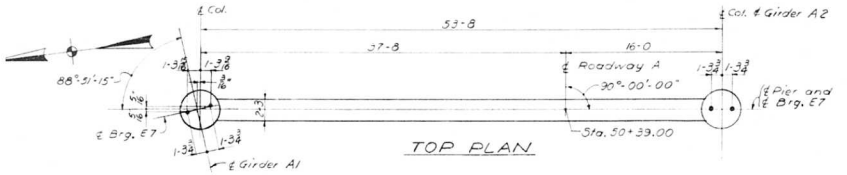
POPLAR STREET BRIDGE APPROACHES
RAMP "O"

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

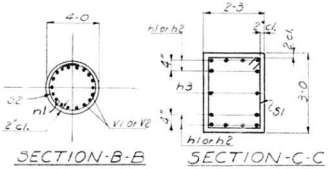
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 380F526

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. —70	82–3HVB–1	ST. CLAIR	207	59
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

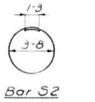


TOP PLAN



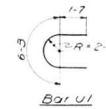
SECTION-B-B SECTION-C-C

Bar S1

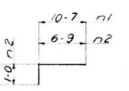


Bar S2

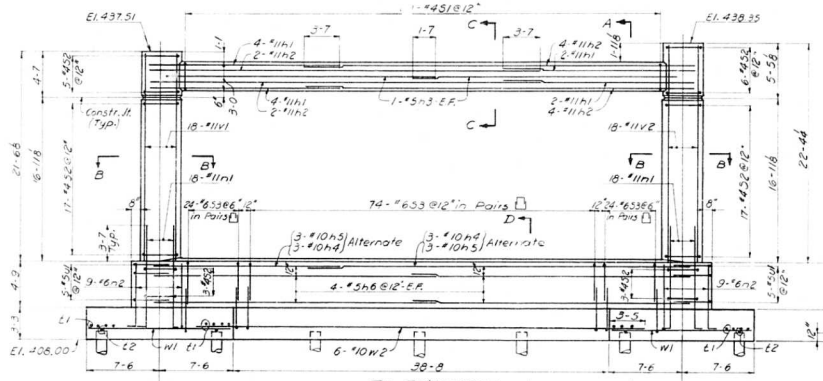
Bar S3



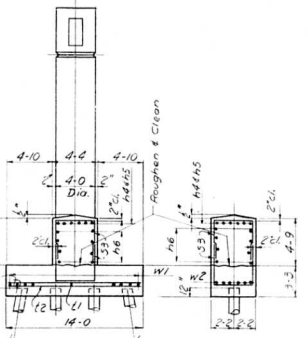
Bar U1



Bars n1 & n2

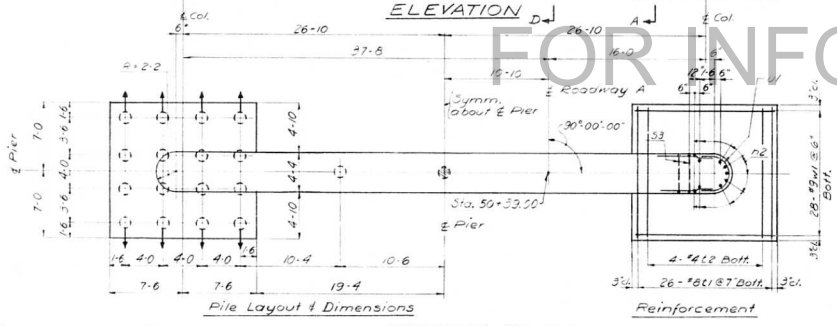


ELEVATION



SECTION-D-D

SECTION-A-A



Pile Layout & Dimensions

FOOTING PLAN

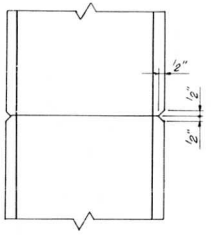
Reinforcement

BILL OF MATERIAL

• Mark	No. Reqd.	Size	Length	Shape
38Ih1	12	#11	20-0	
38Ih2	12	#11	39-8	
38Ih3	4	#5	26-11	
38Ih4	6	#10	19-4	
38Ih5	6	#10	38-8	
38Ih6	16	#5	28-2	
38In1	36	#11	12-9	
38In2	18	#6	7-9	
38IS1	50	#4	10-0	
38IS2	51	#4	12-9	
38IS3	122	#6	12-10	
38It1	52	#8	13-8	
38It2	8	#4	13-8	
38IU1	10	#5	9-5	
38Iv1	18	#11	21-4	
38Iv2	18	#11	22-2	
38Iw1	56	#9	14-8	
38Iw2	6	#10	45-6	

• See Note "X" Sheet No. 35.

Item	Unit	Total
Class "X" Concrete	CY	147.2
Reinforcement Bars	Lbs	21,850
Concrete Piles	L.F.	1394*
Test Pile (Concrete)	Each	1



CONSTRUCTION JOINT DETAIL

At Columns Only

Notes:
All edges shall have standard ¾" chamfers except as noted.

℄ Indicates battered pile.
℄ Indicates Test Pile

PILE DATA

Type	- Concrete
Regd. Cap.	- 32 T
Est. Length	- 41-0
No. Regd.	- 34 *
Test Pile	- 1

*Does not include Test Pile.

BY E.W.
BY D.Z.A.
BY E.W.
BY K.A.

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

PIER A2

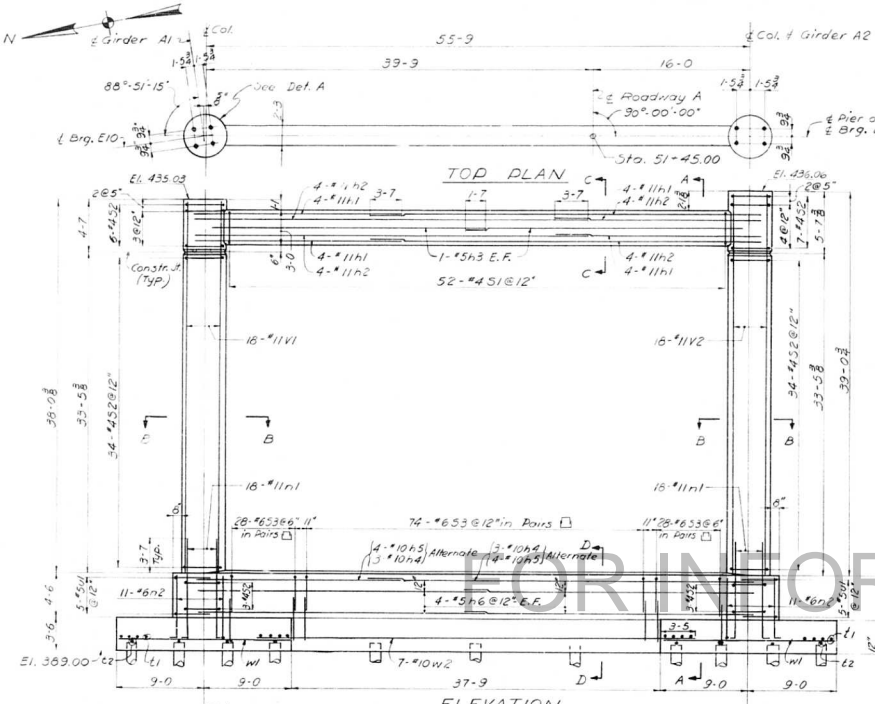
POPLAR STREET BRIDGE APPPOACHES
ROADWAY "A"

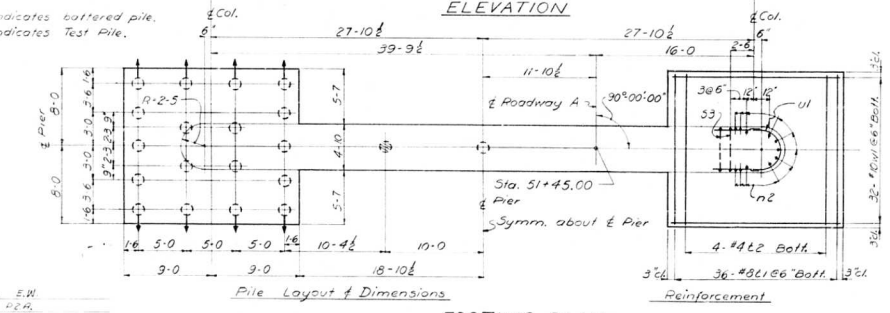
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82–3HVB–1

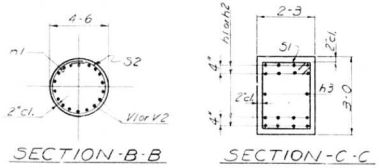
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

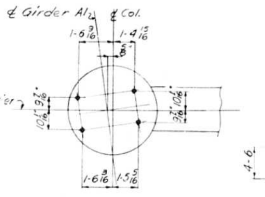
SHEET 38 OF 526

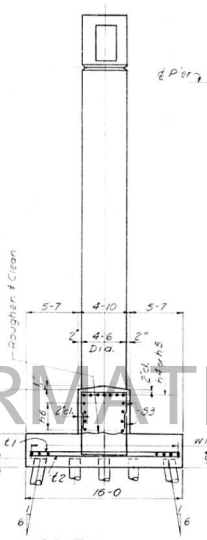
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82—3HVB-1	ST. CLAIR	207	60
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

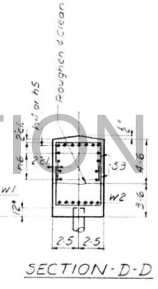


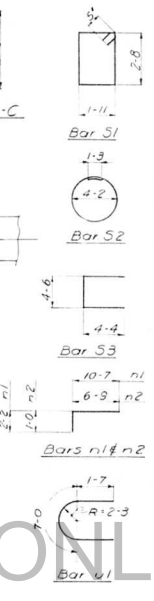












BILL OF MATERIAL

Mark	No. Reqd	Size	Length	Shape
382h1	16	#11	21-0	
382h2	18	#11	40-9	
382h3	4	#5	27-11	
382h4	7	#10	20-1	
382h5	7	#10	40-0	
382h6	16	#5	29-3	
382n1	36	#11	12-9	
382n2	22	#6	7-9	
382S1	52	#4	10-0	
382S2	87	#4	14-4	
382S3	130	#6	19-2	
382t1	72	#8	15-8	
382t2	8	#4	15-8	
382U1	10	#5	10-2	
382V1	18	#11	37-10	
382V2	18	#11	38-10	
382W1	64	#10	17-8	
382W2	7	#10	44-8	
* See note "X" Sheet No 35.				

Item	Unit	Total
Class X Concrete	C.Y.	204.4
Reinforcement Bars	LBS	30,850
Concrete Piles	L.F.	1748*
Test Pile (Concrete)	Each	1

PILE DATA:
Type - Concrete
Reqd. Cap. - 35 T.
Est. Length - 46-0
No. Reqd. - 38*
Test Pile - 1

* Does not include Test Pile.

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

PIER A3

POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

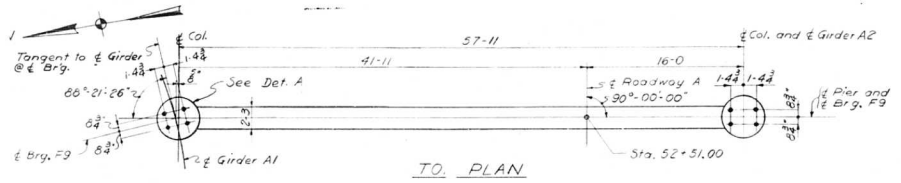
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB

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

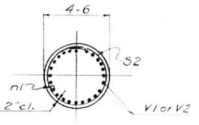
SHEET 36 OF 526

DRAWN BY E.W.
CHECKED BY P.E.R.
TRACED BY E.W.
APPROVED BY K.A.

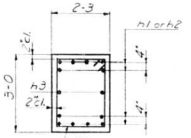
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I — 70	82-3HVB-1	ST. CLAIR	207	61
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



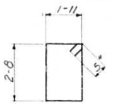
TO. PLAN



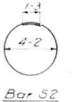
SECTION-B-B



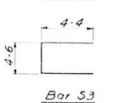
SECTION-C-C



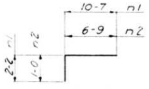
Bar S1



Bar S2



Bar S3



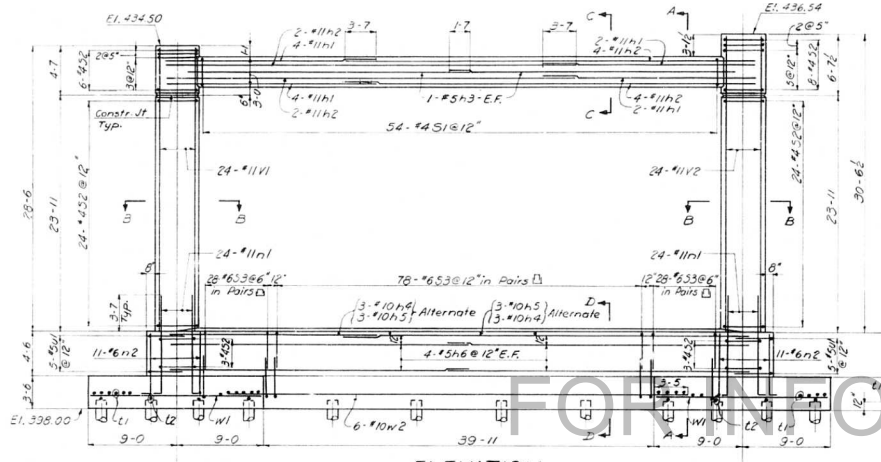
Bars n1 or n2

Bar U1

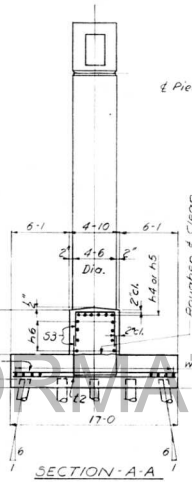
BILL OF MATERIAL

Mark	No. Reqd	Size	Length	Shape
383h1	12	#11	22-0	
383h2	12	#11	42-0	
383h3	4	#5	28-11	
383h4	6	#10	21-3	
383h5	8	#10	41-0	
383h6	16	#5	30-2	
383n1	48	#11	12-3	
383n2	22	#6	7-3	
383S1	54	#4	10-0	A
383S2	68	#4	14-4	
383S3	134	#6	13-2	
383t1	72	#9	16-8	
383t2	8	#4	16-8	
383U1	10	#5	10-2	
383V1	24	#11	28-4	
383V2	24	#11	30-5	
383W1	66	#10	17-6	
383W2	6	#10	46-10	
* See note "X"	Sheet	No 35.		

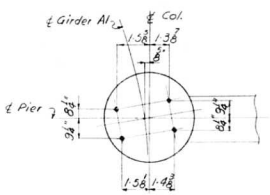
Item	Unit	Total
Class "X" Concrete	C.Y.	2020
Reinforcement Bars	Lbs	316,30
Concrete Piles	L.F.	1419*
Test Pile (Concrete)	Each	1

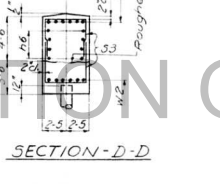


ELEVATION

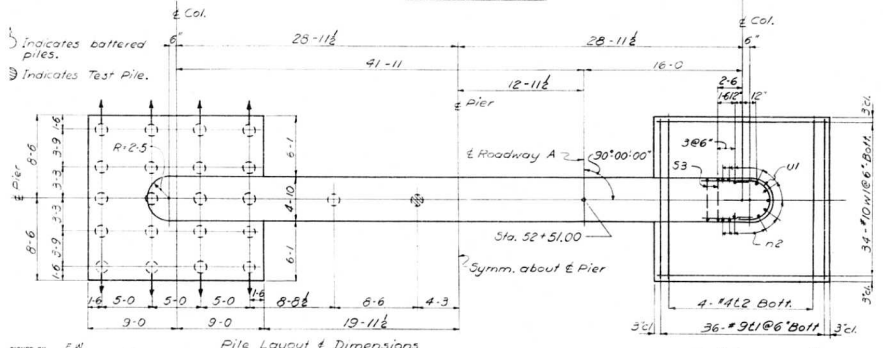


SECTION-A-A

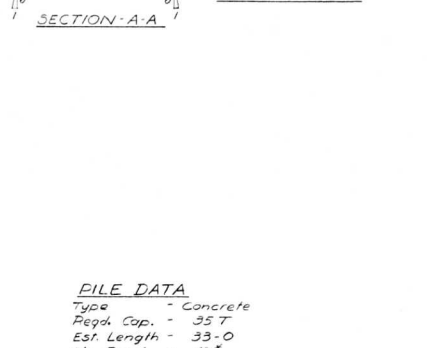




SECTION-D-D



Pile Layout & Dimensions



Reinforcement

FOOTING PLAN

PILE DATA

Type	- Concrete
Reqd. Cap.	- 35 T
Est. Length	- 33-0
No. Reqd.	- 43*
Test Pile	- 1

* Does not include Test Pile.

SIGNED BY	E.N.
DRAWN BY	P.E.A.
CHECKED BY	E.N.
APPROVED BY	K.A.

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

PIER A4

POPLAR STREET BRIDGE APPROACHES

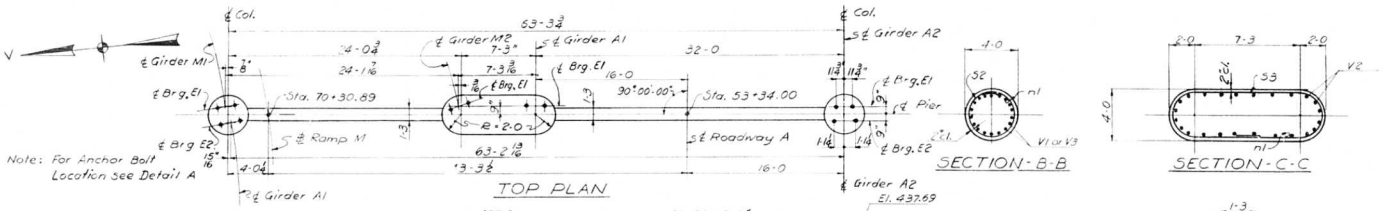
ROADWAY "A"

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

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

SHEET 383 OF 396

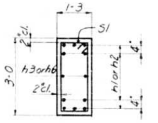
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. — 70	82—3HVB—1	ST. CLAIR	207	62
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



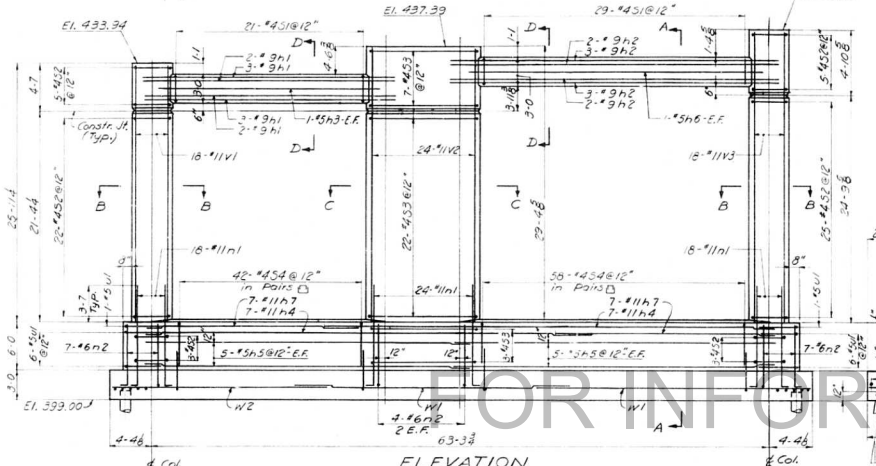
TOP PLAN

SECTION-B-B

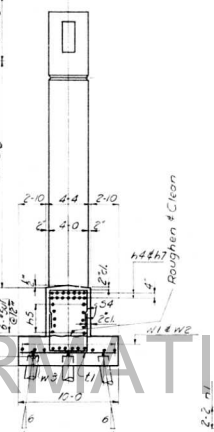
SECTION-C-C



SECTION-D-D



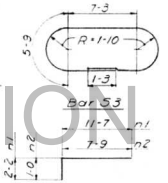
ELEVATION



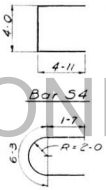
SECTION-A-A

Bar S1

Bar S2

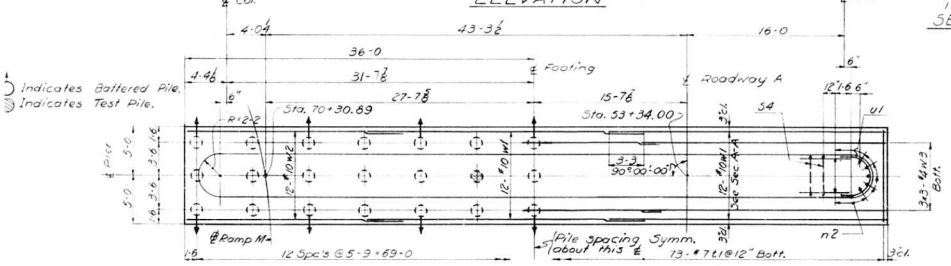


Bars n1 or n2

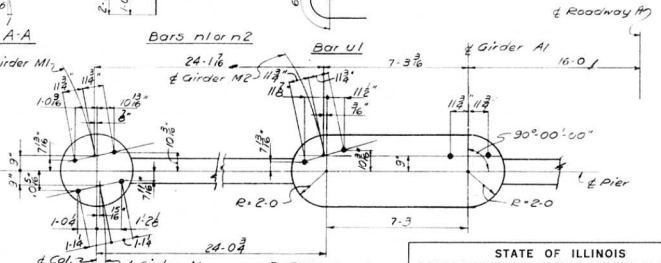


Bar S3

Bar S4



FOOTING PLAN



DETAIL A

Showing location of Anchor Bolts for north and middle column.

PILE DATA :

Type	- Concrete
Reqd. Cap.	- 30 T
Est. Length	- 35-0
No. Reqd.	- 38 *
Test Pile	- 1

*Does not include Test Pile.

BILL OF MATERIAL

• Mark	No. Reqd.	Size	Length	Shape
384 h1	10	#9	26-4	
384 h2	10	#9	34-4	
384 h3	2	#5	22-6	
384 h4	14	#11	45-6	
384 h5	20	#5	33-0	
384 h6	2	#5	30-6	
384 h7	14	#11	22-6	
384 n1	60	#11	13-9	
384 n2	18	#6	8-9	
384 S1	50	#4	8-0	
384 S2	63	#4	12-9	
384 S3	32	#4	27-3	
384 S4	100	#6	13-10	
384 t1	73	#7	9-8	
384 U1	14	#5	9-5	
384 V1	16	#11	25-9	
384 V2	24	#11	29-2	
384 V3	18	#11	29-6	
384 W1	24	#10	28-3	
384 W2	12	#10	21-8	
384 W3	9	#4	24-9	

• See Note 'X' Sheet No 35.

Item	Unit	Total
Class 'X' Concrete	C.Y.	2221
Reinforcement Bars	Lbs	30,770
Concrete Piles	L.F.	1330*
Test Pile (Concrete)	Each	1

DESIGNED BY E.W.
DRAWN BY P.E.A.
CHECKED BY E.H.
APPROVED BY K.A.

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

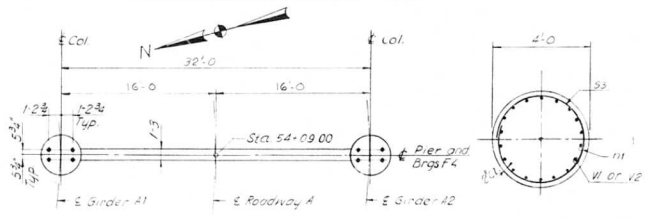
PIER A5

POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

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

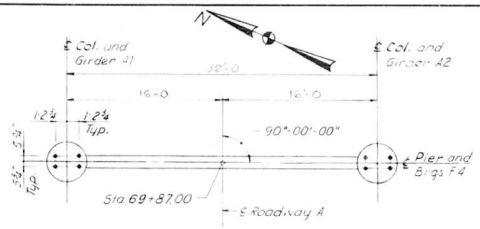
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 384 of 526

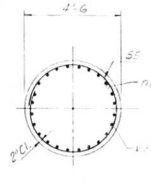


TOP PLAN - PIER A6

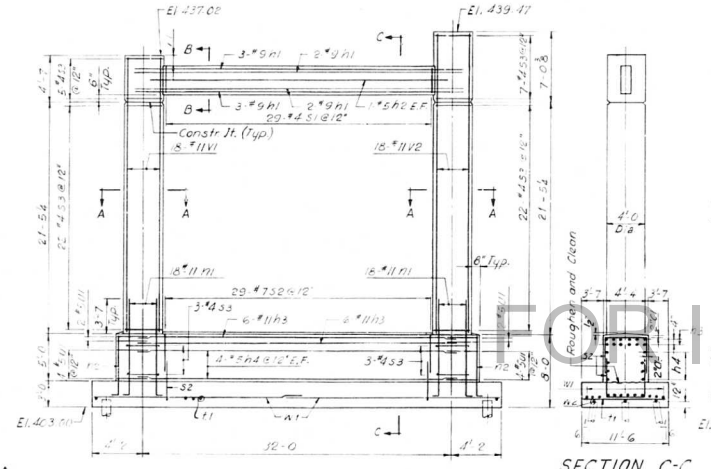
SECTION A-A



TOP PLAN - PIER A22

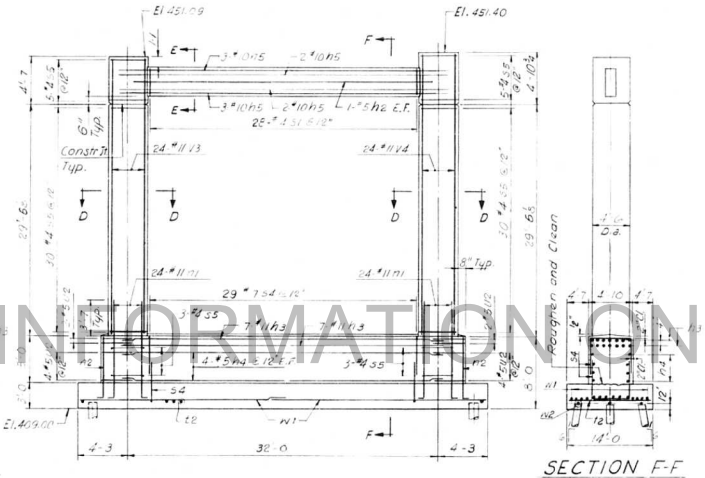


SECTION D-D



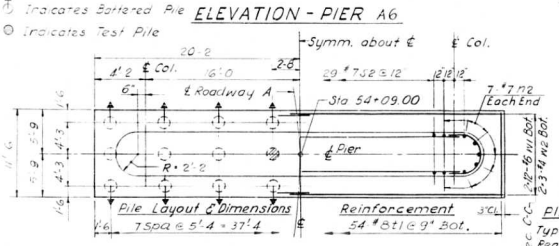
▲ Indicates Battered Pile
○ Indicates Test Pile

ELEVATION - PIER A6

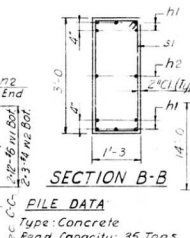


SECTION C-C

SECTION F-F

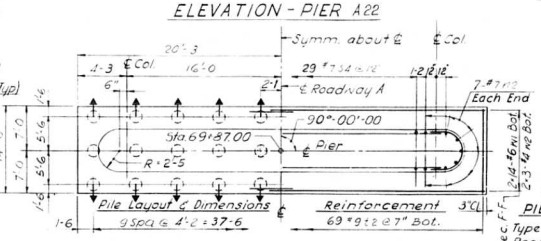


FOOTING PLAN - PIER A6

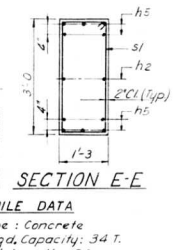


SECTION B-B

PILE DATA
Type: Concrete
Reqd. Capacity: 35 Tons
Est. Length: 41-0
No. Reqd.: 23 *
Test Pile: 1
* Does not include Test Pile

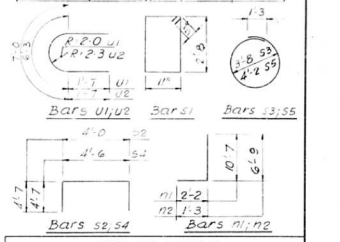


FOOTING PLAN - PIER A22



SECTION E-E

PILE DATA
Type: Concrete
Reqd. Capacity: 34 T.
Est. Length: 36-0
No. Reqd.: 29 *
Test Pile: 1
* Does not include Test Pile



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. — 70	82-3HVB-1	ST. CLAIR	207	63
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

*Mark	No. Reqd. Pier A6	No. Reqd. Pier A22	Size	Length	Shape
385 n1	10	—	#9	42-4	—
385 n2	2	2	#5	30-6	—
385 h3	12	14	#11	33-0	—
385 h4	8	8	#5	33-0	—
385 h5	—	10	#10	34-4	—
385 n1	10	48	#11	17-9	—
385 n2	14	14	#7	2-0	—
385 S1	29	28	#4	3-6	—
385 S2	58	—	#7	13-2	—
385 S3	62	—	#4	12-9	○
385 S4	—	58	#7	13-8	—
385 S5	—	76	#4	14-4	○
385 t1	42	—	#6	11-8	—
385 t2	—	69	#9	11-8	—
385 V1	12	—	#11	3-5	—
385 V2	—	12	#11	2-8	—
385 V3	8	—	#11	25-10	—
385 V4	—	8	#11	26-3	—
385 W1	—	24	#11	33-10	—
385 W2	24	28	#6	21-0	—
	2	6	#4	20-6	—

*See Note "K" Sh. No. 35.

Item	Unit	Total Pier A6	Total Pier A22
Class 'K' Concrete	C.Y.	109.4	139.5
Reinforcement Bars	Lbs.	16,260	23,230
Concrete Piles	L.F.	943 *	1044 *
Test Piles (concrete)	Ea.	1	1

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

PIERS A6 AND A22

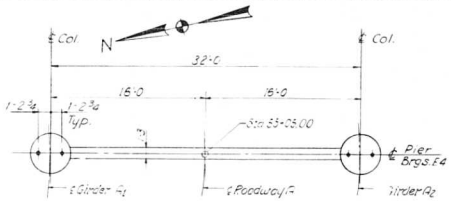
POPLAR STREET BRIDGE APPROACHES
ROADWAY 'A'

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

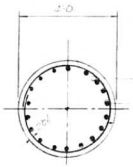
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 385 OF 526

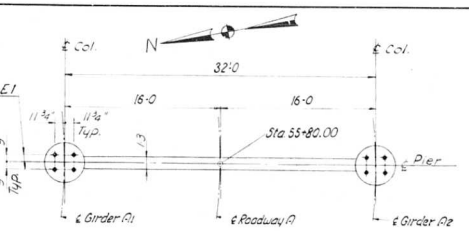
DESIGNED BY J.P.C. & E.N.
DRAWN BY A.B.
CHECKED BY E.N.
APPROVED BY K.A.



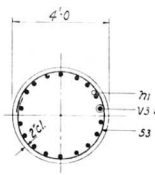
TOP PLAN - PIER A-7



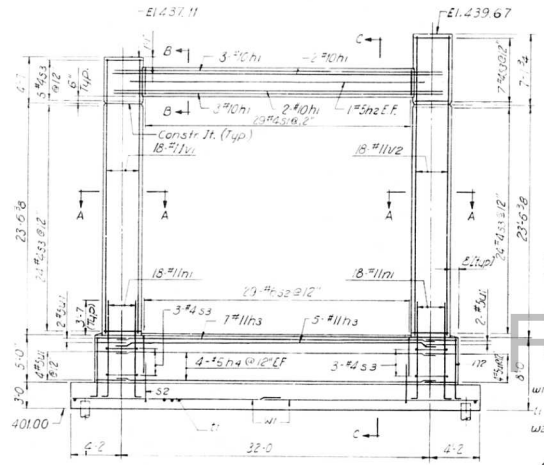
SECTION A-A

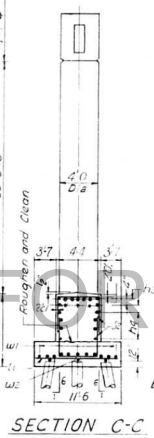


TOP PLAN - PIER A-8

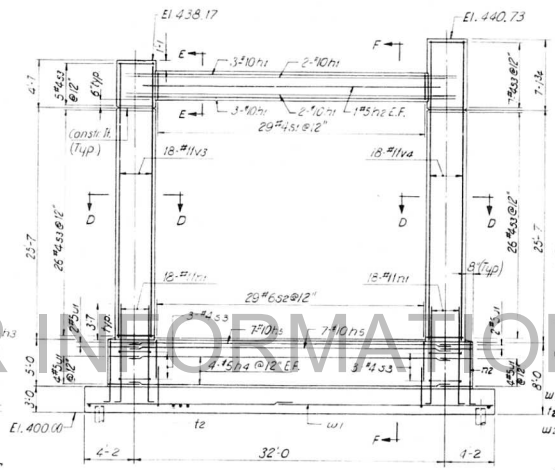


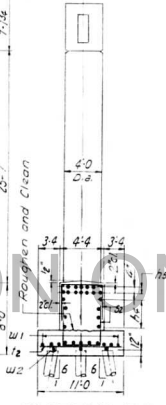
SECTION D-D



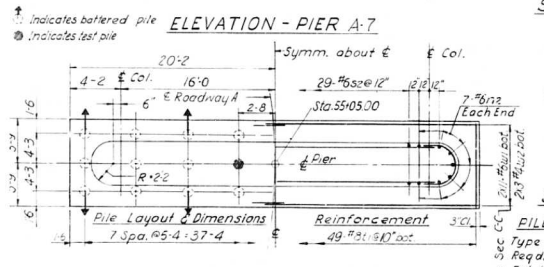


SECTION C-C

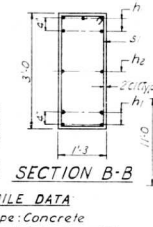




SECTION F-F

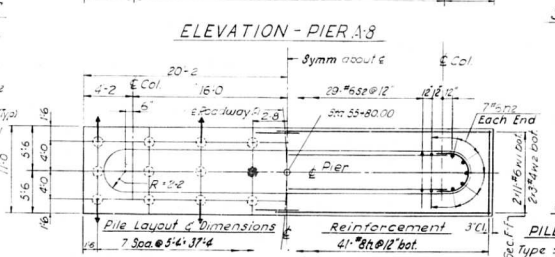


FOOTING PLAN - PIER A-7

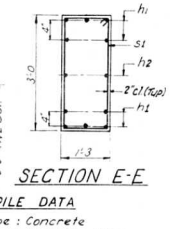


SECTION B-B

PILE DATA
Type: Concrete
Req'd. Capacity: 32 tons
Est. Length: 32'-0
No. Req'd.: 23*
Test Pile: 1
* Does not include Test Pile



FOOTING PLAN - PIER A-8



SECTION E-E

PILE DATA
Type: Concrete
Req'd. Capacity: 32 Tons
Est. Length: 36'-0
No. Req'd.: 23*
Test Pile: 1
* Does not include Test Pile

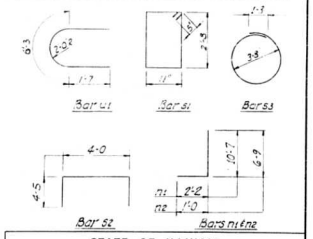
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82-3HVB-1	ST. CLAIR	207	64
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

• Mark	No. Req'd. Pier A7	No. Req'd. Pier A8	Size	Length	Shape
356 h1	10	10	#10	34'-4	
356 h2	2	2	#5	30'-6	
356 h3	12	—	#11	33'-0	
356 h4	8	8	#5	33'-0	
356 h5	—	14	#10	33'-0	
356 n1	36	36	#11	12'-9	
356 n2	14	14	#6	7'-9	
356 s1	29	29	#4	8'-0	
356 s2	58	58	#5	12'-10	
356 s3	66	70	#4	12'-9	
356 t1	49	—	#8	11'-2	
356 t2	—	41	#8	10'-8	
356 u1	12	12	#5	9'-5	
356 v1	22	22	#6	21'-0	
356 v2	6	6	#4	20'-7	
356 v3	18	—	#11	27'-11	
356 v4	—	18	#11	30'-6	
	—	18	#11	30'-0	
	—	18	#11	32'-6	

• See Note "X" Sh. No. 35.

Item	Unit	Total Pier A7	Total Pier A8
Class "X" Concrete	C.Y.	111.4	111.1
Reinforcement Bars	Lbs.	16,300	16,310
Concrete Piles	L.F.	736*	874*
Test Piles (concrete)	Ea.	1	1



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

PIERS A7 AND A8

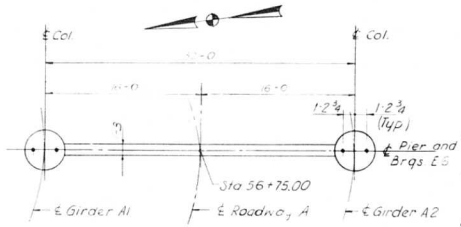
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

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

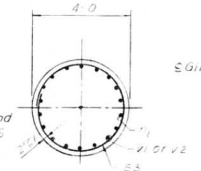
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 386 OF 526

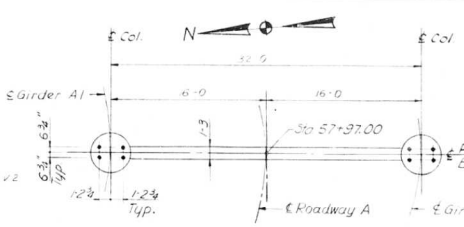
BY E.W.
BY P.J.L.
BY E.W.
BY K.A.



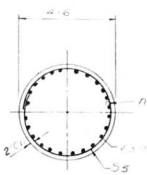
TOP PLAN - PIER A9



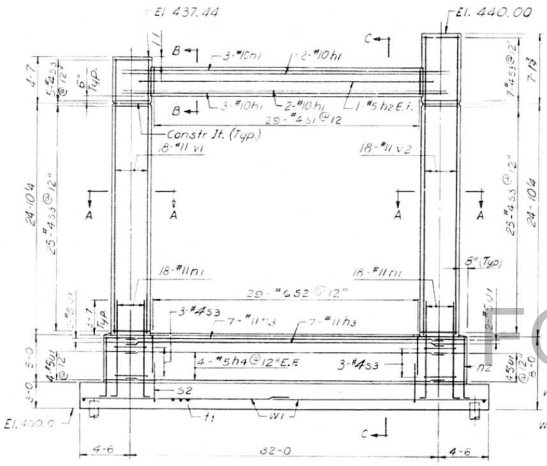
SECTION A-A



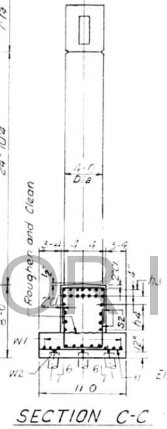
TOP PLAN - PIER A10



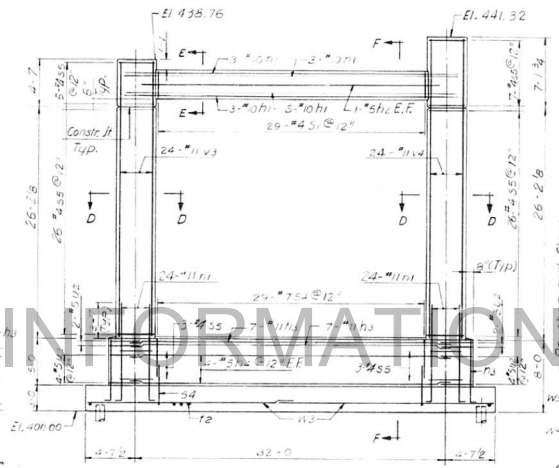
SECTION D-D



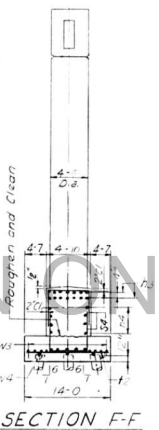
ELEVATION - PIER A9



SECTION C-C

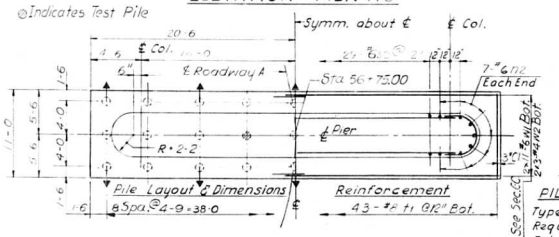


ELEVATION - PIER A10

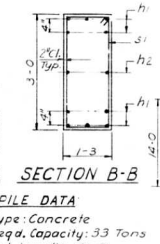


SECTION F-F

Indicates Battered Pile
Indicates Test Pile

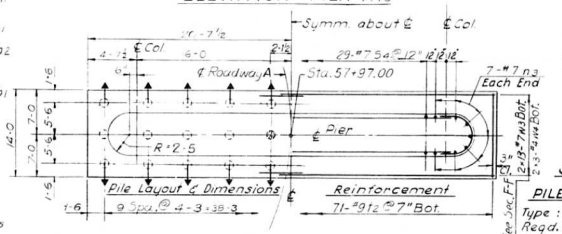


FOOTING PLAN - PIER A9

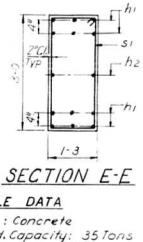


SECTION B-B

PILE DATA
Type: Concrete
Reqd. Capacity: 33 Tons
Est. Length: 41'-0
No. Reqd.: 26*
Test Pile 1
* Does not include Test Pile



FOOTING PLAN - PIER A10



SECTION E-E

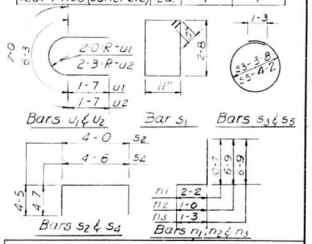
PILE DATA
Type: Concrete
Reqd. Capacity: 35 Tons
Est. Length: 39'-0
No. Reqd.: 29*
Test Pile: 1
* Does not include Test Pile

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-1	ST. CLAIR	207	65
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

*Mark	No. Reqd. Pier A9	No. Reqd. Pier A10	Size	Length	Shape
387 h1	10	12	#10	34-4	
387 h2	2	2	#5	30-6	
387 h3	14	14	#11	33-0	
387 h4	8	8	#5	33-0	
387 n1	36	48	#11	12-9	
387 n2	14	-	#6	7-9	
387 n3	-	14	#7	8-0	
387 S1	29	29	#4	6-0	
387 S2	58	-	#6	12-10	
387 S3	68	-	#4	12-9	
387 S4	-	58	#7	13-8	
387 S5	-	70	#4	12-4	
387 t1	43	-	#8	10-8	
387-2	-	71	#9	13-8	
387 V1	12	-	#5	9-5	
387 V2	-	12	#5	10-2	
387 V1	18	-	#11	29-3	
387 V2	18	-	#11	31-10	
387 V3	-	24	#11	30-7	
387 V4	-	24	#11	33-2	
387 W1	22	-	#6	21-4	
387 W2	6	-	#4	21-0	
387 W3	-	26	#7	21-6	
387 W4	-	6	#4	21-2	
*See Note "X" Sh. No. 35.					

Item	Unit	Total Pier A9	Total Pier A10
Class 'X' Concrete	C.Y.	111.1	138.1
Reinforcement Bars	Lbs.	16,700	23,280
Concrete Piles	L.F.	1066*	1131*
Test Piles (concrete)	Ea.	1	1



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

PIERS A9 AND A10

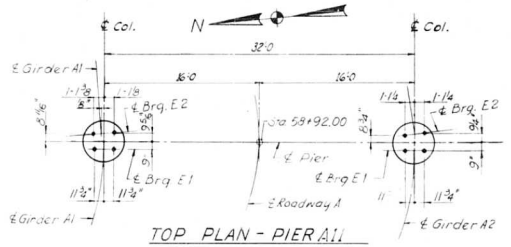
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

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

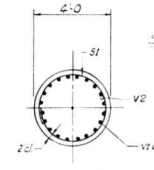
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 387 OF 526

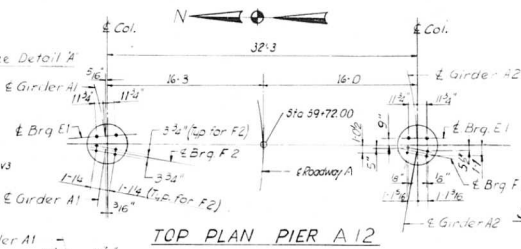
DESIGNED BY E.W.
DRAWN BY D.T.
CHECKED BY E.W.
APPROVED BY K.A.



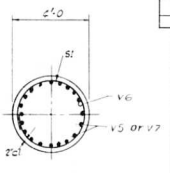
TOP PLAN - PIER A11



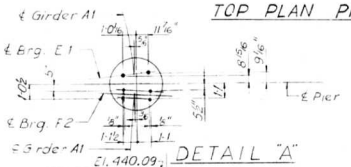
SECTION A-A

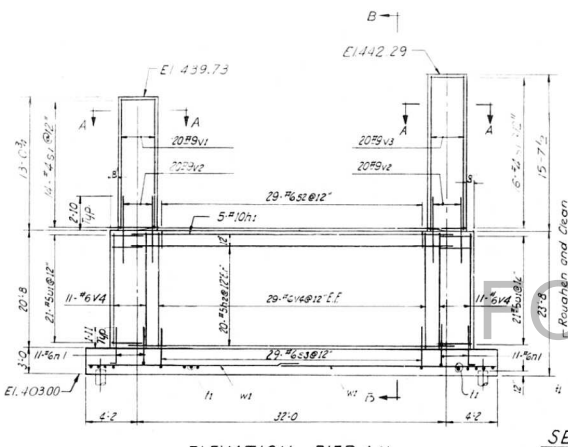


TOP PLAN PIER A12

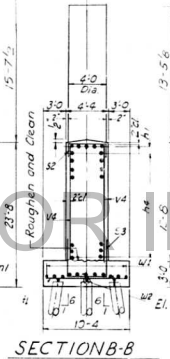


SECTION D-D



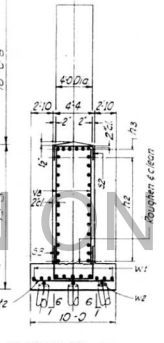


ELEVATION - PIER A11

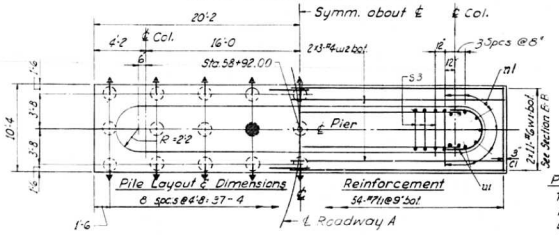


SECTION B-B

ELEVATION - PIER A12



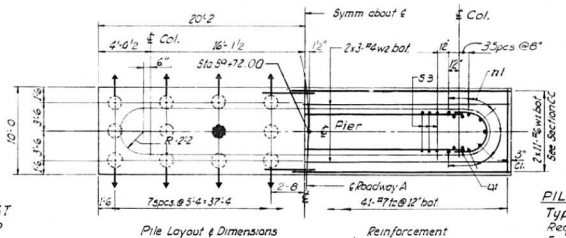
SECTION C-C



FOOTING PLAN - PIER A11

Indicates battered pile
Indicates test pile

PILE DATA
Type: Concrete
Reqd Capacity: 35T
Est. Length: 32'0
No. Reqd.: 26*
Test Pile: 1
*Does not include Test Pile.



FOOTING PLAN - PIER A12

Indicates battered pile
Indicates test pile

PILE DATA
Type: Concrete
Reqd Capacity: 31 Ton
Est. Length: 36'-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—1	ST. CLAIR	207	66
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

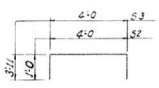
BILL OF MATERIAL

*Mark	No. Reqd. Pier A11	No. Reqd. Pier A12	Size	Length	Shape
388 h1	5	-	#10	33'-0	
388 h2	40	24	#5	33'-0	
388 h3	-	6	#10	33'-3	
388 n1	22	22	#6	4'-11	
388 S1	30	30	#4	12'-9	
388 S2	29	29	#6	6'-0	
388 S3	29	29	#6	11'-10	
388 f1	54	—	#7	10'-0	
388 f2	—	41	#7	9'-8	
388 V1	20	—	#9	17'-10	
388 V2	10	—	#9	6'-8	
388 V3	20	—	#9	15'-5	
388 V4	60	—	#6	20'-6	
388 V5	—	20	#9	13'-3	
388 V6	—	40	#9	6'-8	
388 V7	—	20	#9	15'-10	
388 V8	—	60	#6	12'-5	
388 w1	22	22	#6	21'-0	
388 w2	6	6	#4	20'-8	
388 U1	42	26	#5	9'-5	

*See Note "A" Sh. No. 35.

Item	Unit	Total Pier A11	Total Pier A12
Class "A" Concrete	C.Y.	179.7	132.4
Reinforcement Bars	Lbs.	10,870	9110
Concrete Piles	L.F.	832*	828*
Test Piles (Concrete)	Ea.	1	1

Bar U1



Bars S2 & S3

Bars S1

Bar n1

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

PIERS A11 AND A12

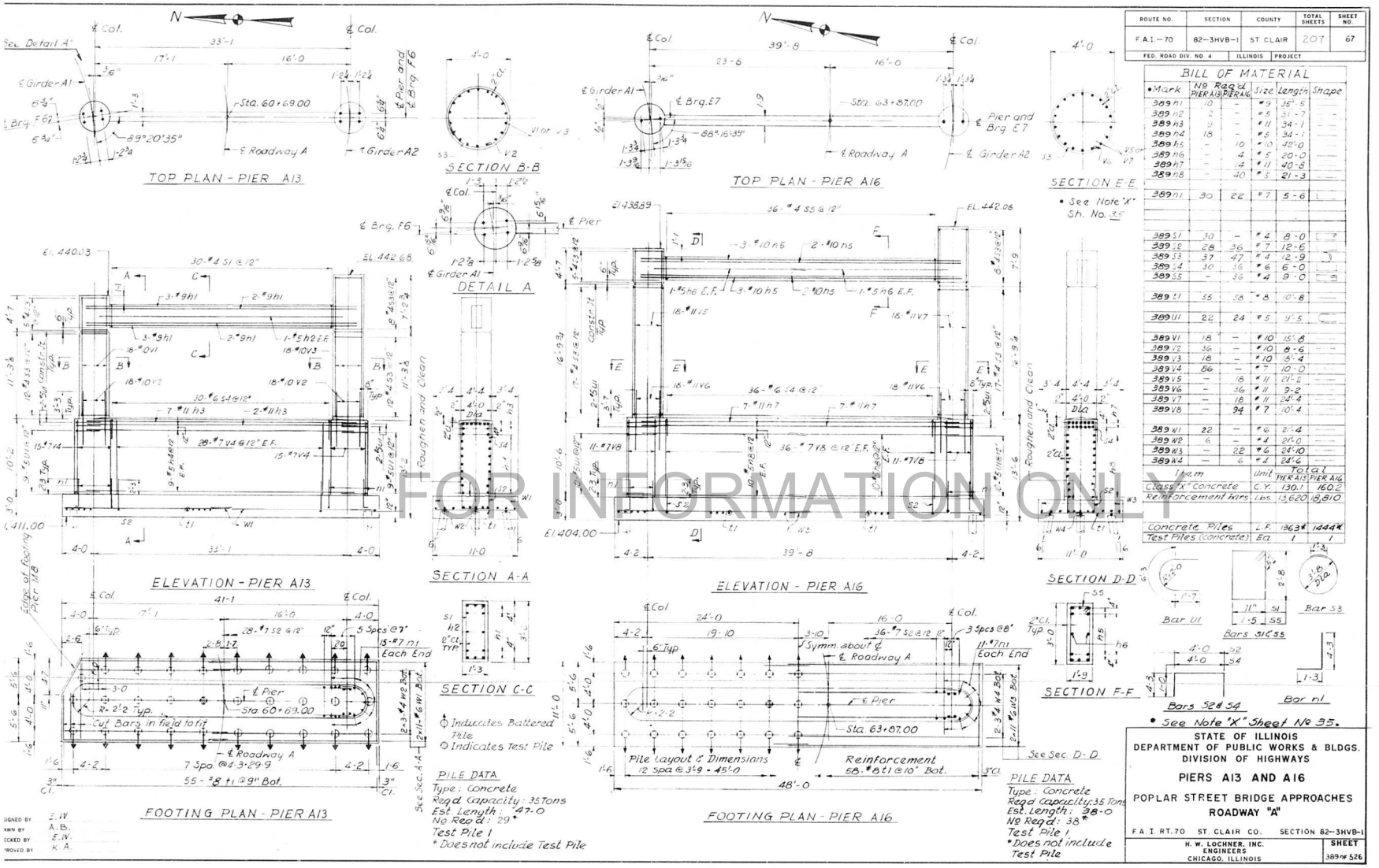
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

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

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

SHEET 388 of 526

DESIGNED BY E.W.
DRAWN BY R.J.L.
CHECKED BY E.W.
APPROVED BY K.A.



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82—3HVB—1	ST. CLAIR	207	67
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

•Mark	No Req'd PIER A13	No Req'd PIER A16	Size	Length	Shape
389 n1	10	–	#9	35'-5	
389 n2	2	–	#5	31'-7	
389 n3	9	–	#11	34'-1	
389 n4	18	–	#5	34'-1	
389 n5	–	10	#10	42'-0	
389 n6	–	4	#5	20'-0	
389 n7	–	14	#11	40'-8	
389 n8	–	40	#5	21'-3	
389 n1	30	22	#7	5'-6	L
389 S1	30	–	#4	8'-0	
389 S2	28	36	#7	12'-6	
389 S3	37	47	#4	12'-9	
389 S4	30	36	#6	6'-0	
389 S5	–	36	#4	9'-0	
389 t1	55	58	#8	10'-8	
389 W1	22	24	#5	9'-5	
389 V1	18	–	#10	15'-8	
389 V2	36	–	#10	8'-6	
389 V3	18	–	#10	15'-4	
389 V4	66	–	#7	10'-0	
389 V5	–	18	#11	27'-2	
389 V6	–	36	#11	9'-2	
389 V7	–	18	#11	24'-4	
389 V8	–	94	#7	10'-4	
389 W1	22	–	#6	21'-4	
389 W2	6	–	#4	20'-0	
389 W3	–	22	#6	24'-10	
389 W4	–	6	#4	24'-6	

Item	Unit	Total PIER A13	Total PIER A16
Class "X" Concrete	C.Y.	130.1	160.2
Reinforcement bars	Lbs.	13,620	15,810
Concrete Piles	L.F.	1363*	1444*
Test Piles (concrete)	Ea.	1	1

• See Note "X" Sheet No 35.

PILE DATA
Type: Concrete
Reqd Capacity: 35 Tons
Est. Length: 47'-0
No Req'd: 29*
Test Pile 1
*Does not include Test Pile

PILE DATA
Type: Concrete
Reqd Capacity: 35 Tons
Est. Length: 38'-0
No Req'd: 38*
Test Pile 1
*Does not include Test Pile

⊕ Indicates Battered Pile
⊙ Indicates Test Pile

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

PIERS A13 AND A16

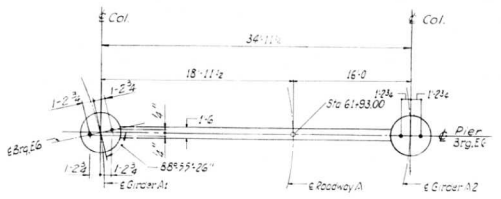
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

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

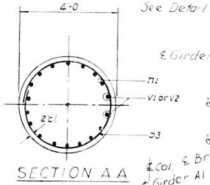
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 389 OF 526

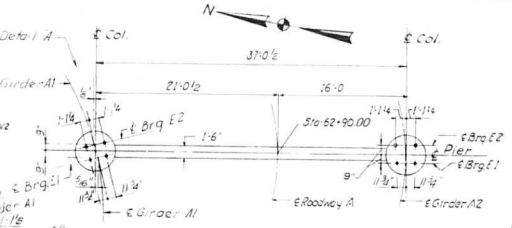
DESIGNED BY E.W.
DRAWN BY A.B.
CHECKED BY E.W.
APPROVED BY K.A.

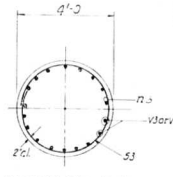


TOP PLAN - PIER A14

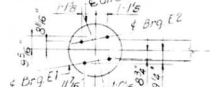


SECTION A-A



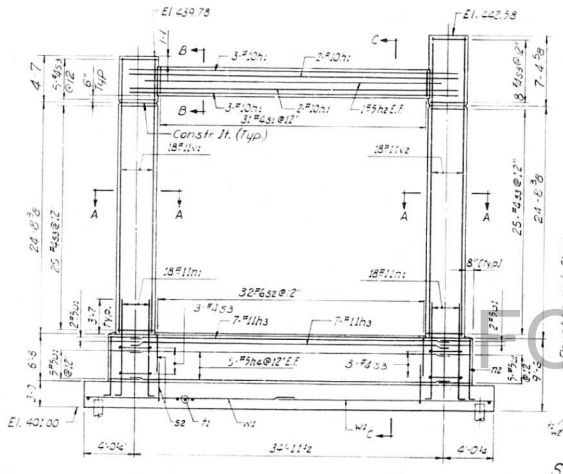


SECTION D-D

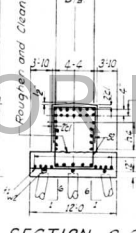


DETAIL "A"

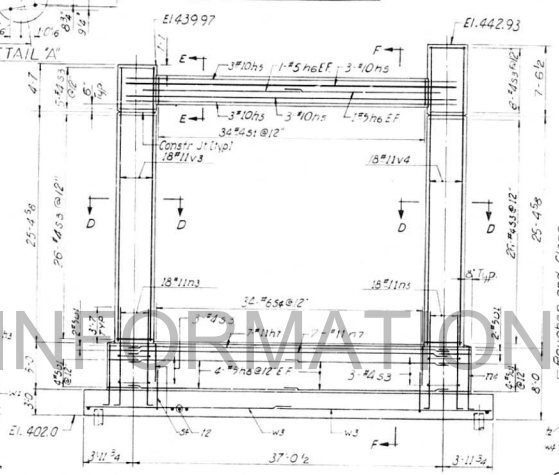
TOP PLAN - PIER A15



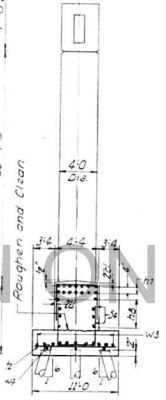
ELEVATION - PIER A14



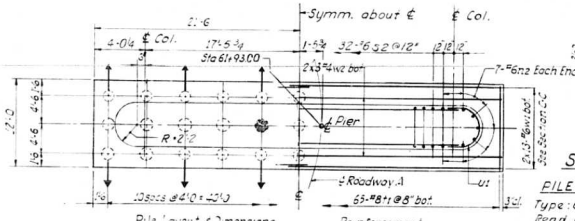
SECTION C-C



ELEVATION - PIER A15

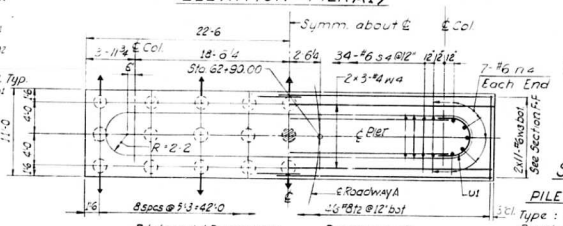


SECTION F-F



Pile Layout & Dimensions Reinforcement

FOOTING PLAN - PIER A14



Pile Layout & Dimensions Reinforcement

FOOTING PLAN - PIER A15

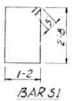
Indicates battered Pile
Indicates test pile

PILE DATA
Type: Concrete
Reqd. Capacity: 33 Tons
Est. Length: 42'-0
No. Reqd: 32*
Test Pile: 1
* Does not include Test Pile

SECTION E-E

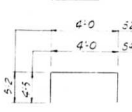
PILE DATA
Type: Concrete
Reqd. Capacity: 28 Tons
Est. Length: 34'-0
No. Reqd.: 26*
Test Pile: 1
* Does not include test Pile

BAR U1

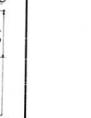


BAR S1

BAR S3



BAR S2 S4



BAR n1, n2, n3 & n4

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. — 70	82—3HVB-1	ST. CLAIR	207	68
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

*Mark	No. Reqd. Pier A14	No. Reqd. Pier A15	Size	Length	Shape
390 h1	10	—	#10	37-3	
390 h2	2	—	#5	33-5	
390 h3	14	—	#11	35-11	
390 n2	10	—	#5	35-11	
390 h5	—	12	#10	39-6	
390 h6	—	4	#5	18-7	
390 h7	—	14	#11	38-0	
390 h8	—	16	#5	19-10	
390 n1	36	—	#11	14-3	
390 n2	14	—	#6	9-4	
390 n3	—	36	#11	12-9	
390 n4	—	14	#6	7-9	
390 s1	31	34	#4	8-6	
390 s2	64	—	#6	14-6	
390 s3	65	71	#4	12-9	
390 s4	—	68	#6	12-10	
390 f1	64	—	#8	11-8	
390 f2	—	46	#8	10-8	
390 v1	18	—	#11	29-1	
390 v2	18	—	#11	31-11	
390 v3	—	18	#11	29-9	
390 v4	—	18	#11	32-9	
390 u1	14	12	#5	9-5	
390 w1	26	—	#6	22-4	
390 w2	6	—	#8	22-0	
390 w3	—	22	#6	23-4	
390 w4	—	6	#4	23-0	

*See Note "X" Sh. No. 35

Item	Unit	Total Pier A14	Total Pier A15
Class 'X' Concrete	C.Y.	131.3	102.3
Reinforcement Bars	Lbs.	16,740	13,250
Concrete Piles	L.F.	1344 *	684 *
Test Piles (concrete)	Ea.	1	

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

PIERS A14 AND A15

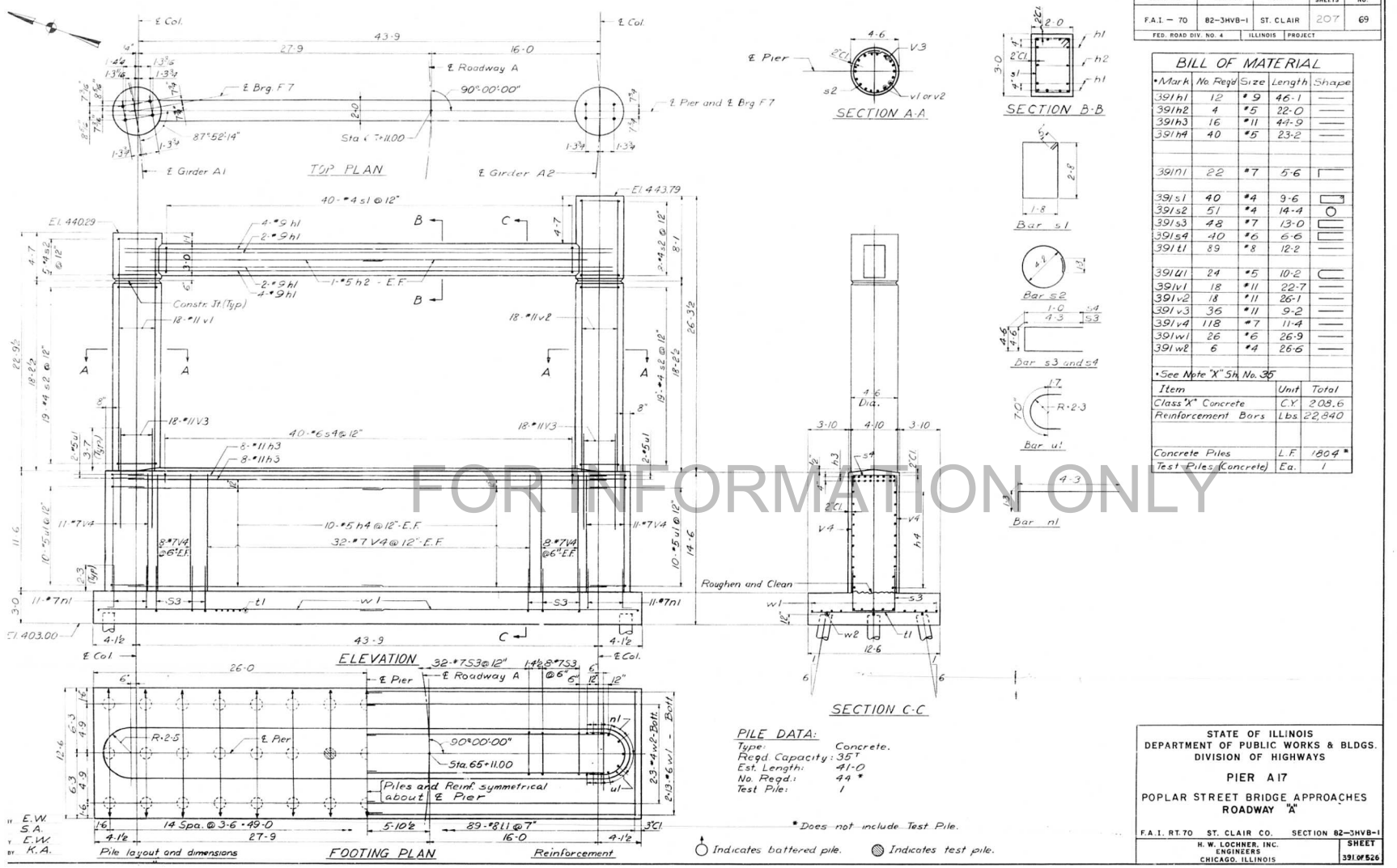
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

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

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

SHEET 390 OF 526

DESIGNED BY E.W.
DRAWN BY P.J.L.
CHECKED BY E.W.
APPROVED BY K.A.



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. – 70	82-3HVB-1	ST. CLAIR	207	69
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

*Mark	No. Reqd	Size	Length	Shape
391 h1	12	#9	46-1	
391 h2	4	#5	22-0	
391 h3	16	#11	44-9	
391 h4	40	#5	23-2	
391 n1	22	#7	5-6	
391 s1	40	#4	9-6	
391 s2	51	#4	14-4	
391 s3	48	#7	13-0	
391 s4	40	#6	6-6	
391 t1	89	#8	12-2	
391 u1	24	#5	10-2	
391 v1	18	#11	22-7	
391 v2	18	#11	26-1	
391 v3	36	#11	9-2	
391 v4	118	#7	11-4	
391 w1	26	#6	26-9	
391 w2	6	#4	26-6	

*See Note "X" Sh. No. 35

Item	Unit	Total
Class "X" Concrete	C.Y.	208.6
Reinforcement Bars	Lbs.	22,840
Concrete Piles	L.F.	1804 *
Test Piles (Concrete)	Ea.	1

PILE DATA:

Type: Concrete.
Reqd. Capacity: 35 T
Est. Length: 41-0
No. Reqd.: 44 *
Test Pile: 1

* Does not include Test Pile.

○ Indicates battered pile. ▨ Indicates test pile.

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

PIER A17

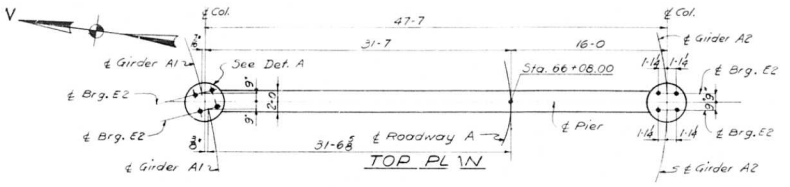
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

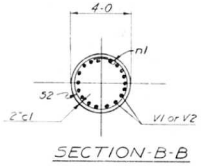
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-1

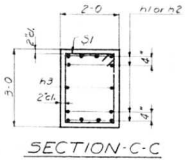
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

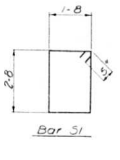
SHEET 391 OF 526

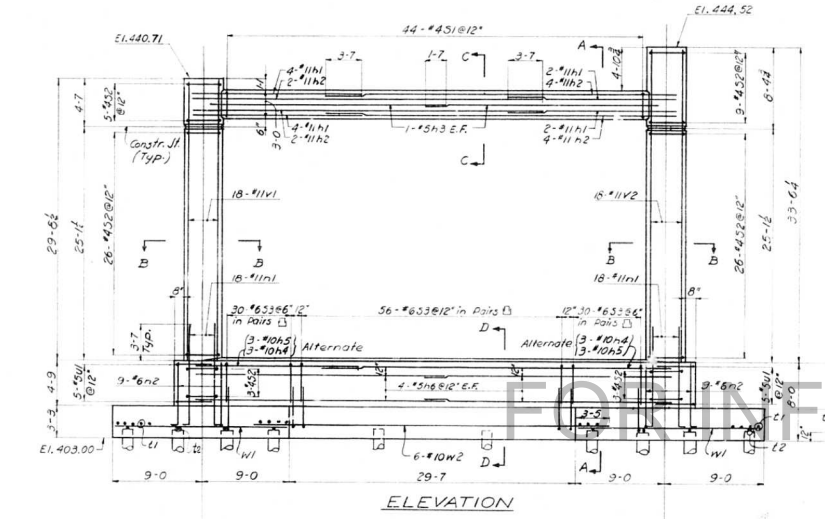
E.W.
S.A.
E.W.
K.A.

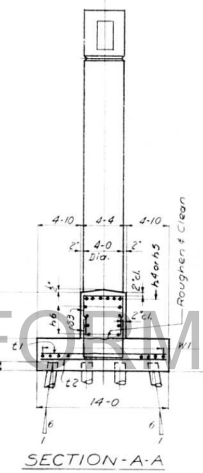


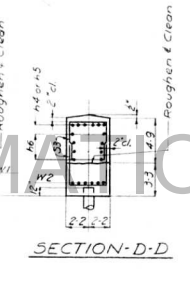


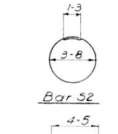


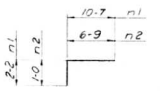










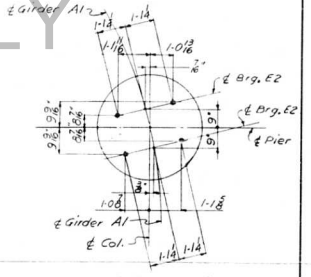


ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. — 70	82-3HVB-1	ST. CLAIR	207	70
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

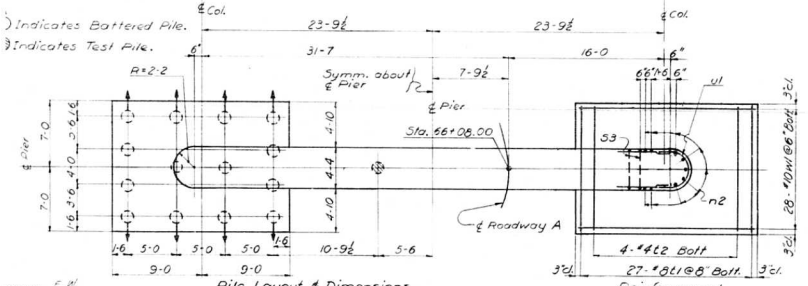
* Mark	No. Reqd	Size	Length	Shape
392h1	12	#11	17-6	
392h2	12	#11	36-0	
392h3	4	#5	23-9	
392h4	6	#10	36-0	
392h5	6	#10	15-10	
392h6	16	#5	25-0	
392n1	36	#11	12-9	
392n2	18	#6	7-9	
392S1	44	#4	9-6	
392S2	72	#4	12-9	
392S3	116	#6	12-10	
392t1	54	#8	13-8	
392t2	6	#4	13-6	
392U1	10	#5	9-5	
392V1	18	#11	29-6	
392V2	18	#11	33-4	
392W1	56	#10	17-8	
392W2	6	#10	36-5	
* See Note "X" Sheet No			35.	

Item	Unit	Total
Class 'X' Concrete	C.Y.	154.2
Reinforcement Bars	LBS	24,390
Concrete Piles	L.F.	1218*
Test Pile (Concrete)	Each	1



DETAIL A
Showing location of Anchor Bolts for North Column.

) Indicates Battered Pile.
) Indicates Test Pile.



PILE DATA
Type - Concrete
Reqd Cap. - 32T
Est. Length - 42-0
No. Reqd. - 29*
Test Pile - 1

* Does not include Test Pile.

DESIGNED BY E.W.
DRAWN BY D.Z.A.
CHECKED BY E.W.
APPROVED BY V.A.

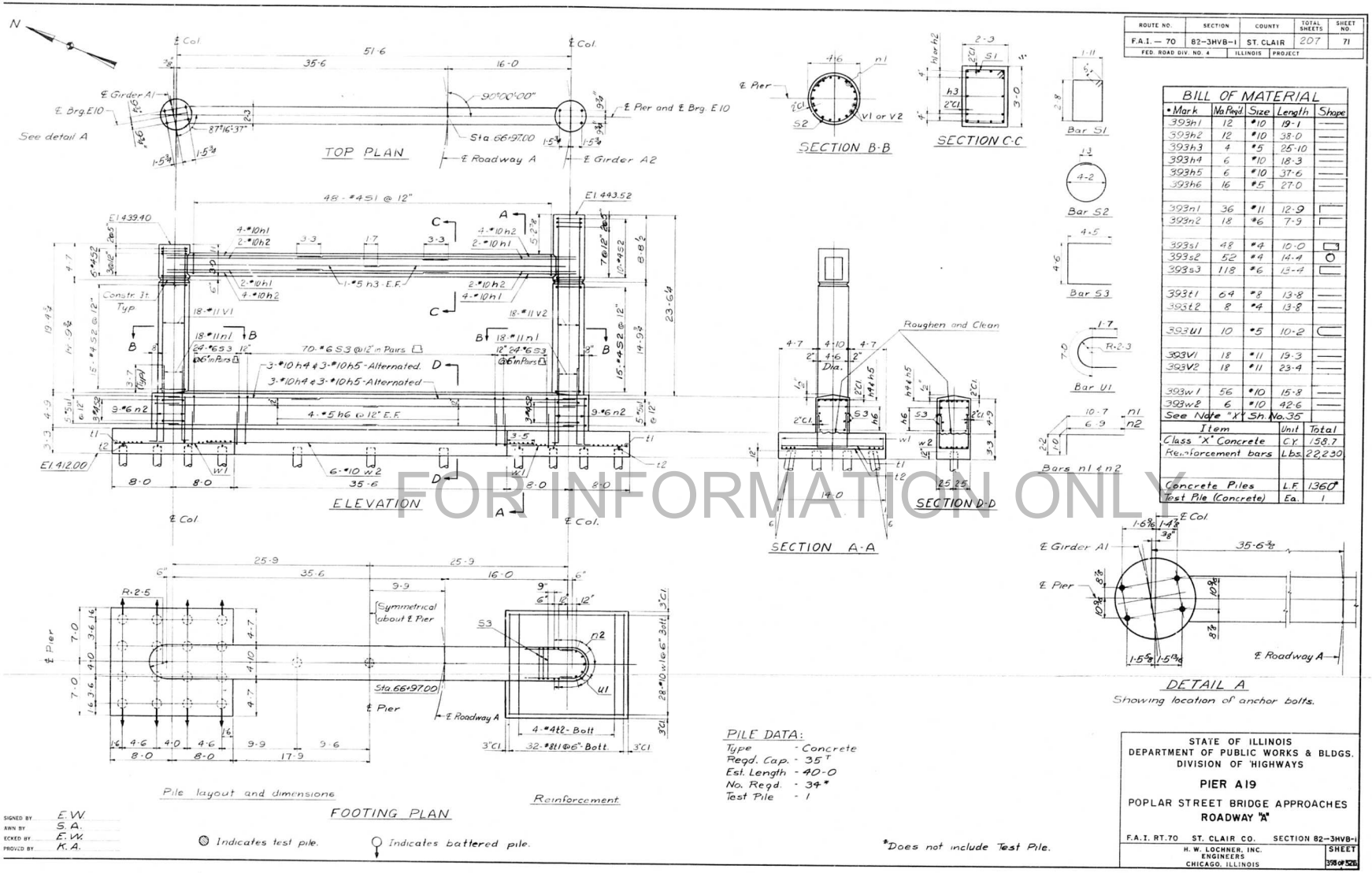
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS

PIER A18
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

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

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

SHEET 392 OF 526



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. — 70	82-3HVB-1	ST. CLAIR	207	71
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

• Mark	No Reqd	Size	Length	Shape
393h1	12	#10	19-1	
393h2	12	#10	38-0	
393h3	4	#5	25-10	
393h4	6	#10	18-3	
393h5	6	#10	37-6	
393h6	16	#5	27-0	
393n1	36	#11	12-9	
393n2	18	#6	7-9	
393s1	48	#4	10-0	
393s2	52	#4	14-4	
393s3	118	#6	13-4	
393t1	64	#8	13-8	
393t2	8	#4	13-8	
393u1	10	#5	10-2	
393V1	18	#11	19-3	
393V2	18	#11	23-4	
393w1	56	#10	15-8	
393w2	6	#10	42-6	
See Note "X" Sh No. 35				

Item	Unit	Total
Class 'X' Concrete	C.Y.	158.7
Reinforcement bars	Lbs.	22230
Concrete Piles	L.F.	1360*
Test Pile (Concrete)	Ea.	1

PILE DATA:
Type - Concrete
Reqd. Cap. - 35 T
Est. Length - 40-0
No. Reqd. - 34*
Test Pile - 1

*Does not include Test Pile.

SIGNED BY E.W.
AWN BY S.A.
ECKED BY E.W.
PROVED BY K.A.

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

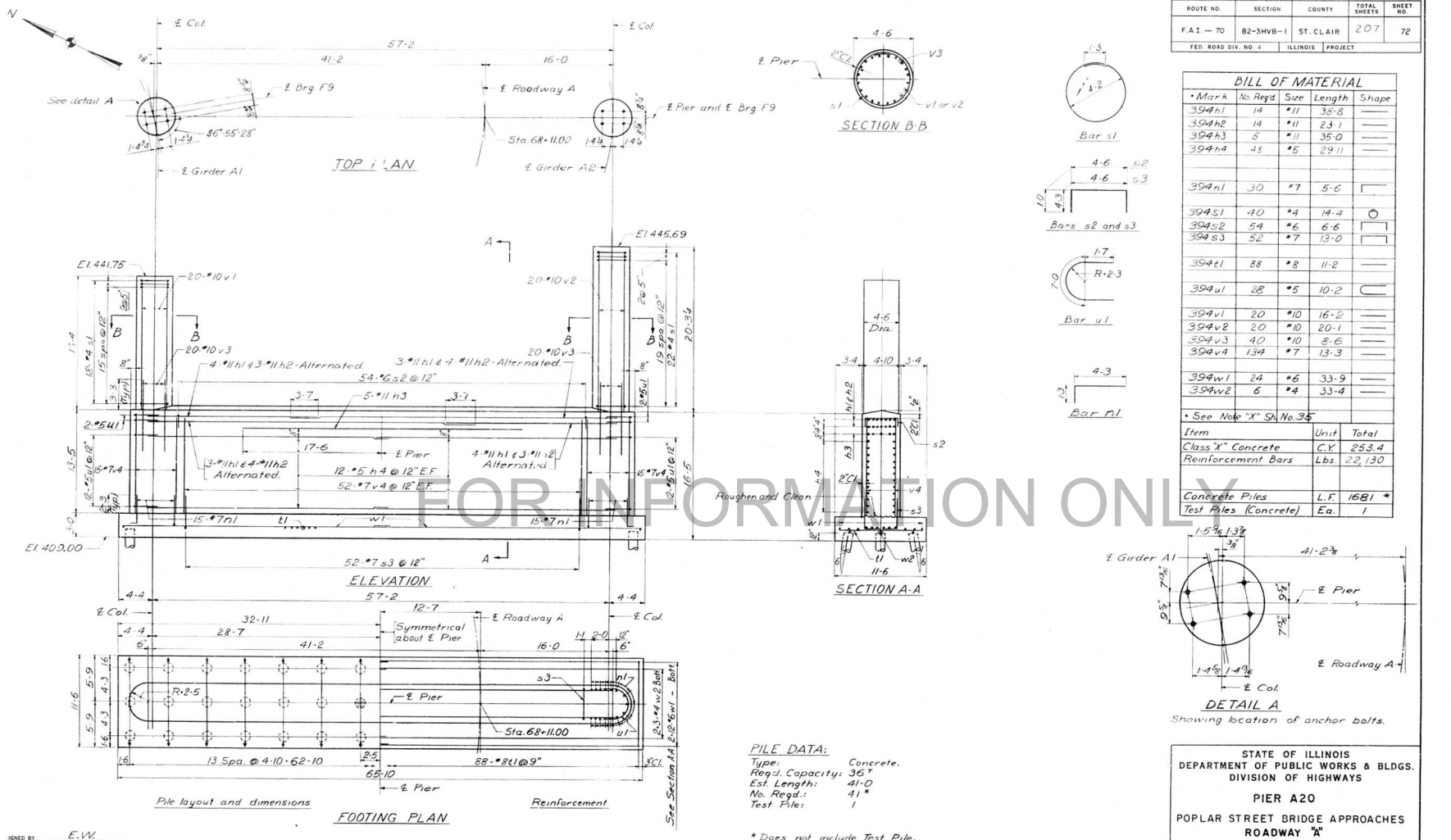
PIER A19

POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

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

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

SHEET 358 OF 526



PILE DATA:

Type:	Concrete.
Req'd. Capacity:	36 T
Est. Length:	41-0
No. Req'd.:	41 *
Test Pile:	1

* Does not include Test Pile.

DETAIL A

Showing location of anchor bolts.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. — 70	82-3HVB-1	ST. CLAIR	207	72
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

• Mark	No. Req'd.	Size	Length	Shape
394h1	14	#11	38-8	—
394h2	14	#11	23-1	—
394h3	5	#11	35-0	—
394h4	48	#5	29-11	—
394n1	30	#7	5-6	⌐
394s1	40	#4	14-4	○
394s2	54	#6	6-6	⌐
394s3	52	#7	13-0	⌐
394t1	88	#8	11-2	—
394u1	28	#5	10-2	⊂
394v1	20	#10	16-2	—
394v2	20	#10	20-1	—
394v3	40	#10	8-6	—
394v4	134	#7	13-3	—
394w1	24	#6	33-9	—
394w2	6	#4	33-4	—

• See Note "X" Sh. No. 35

Item	Unit	Total
Class "X" Concrete	C.Y.	253.4
Reinforcement Bars	Lbs.	22,130
Concrete Piles	L.F.	1681 *
Test Piles (Concrete)	Ea.	1

SIGNED BY	E.W.
DRAWN BY	S.A.
CHECKED BY	E.W.
APPROVED BY	K.A.

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

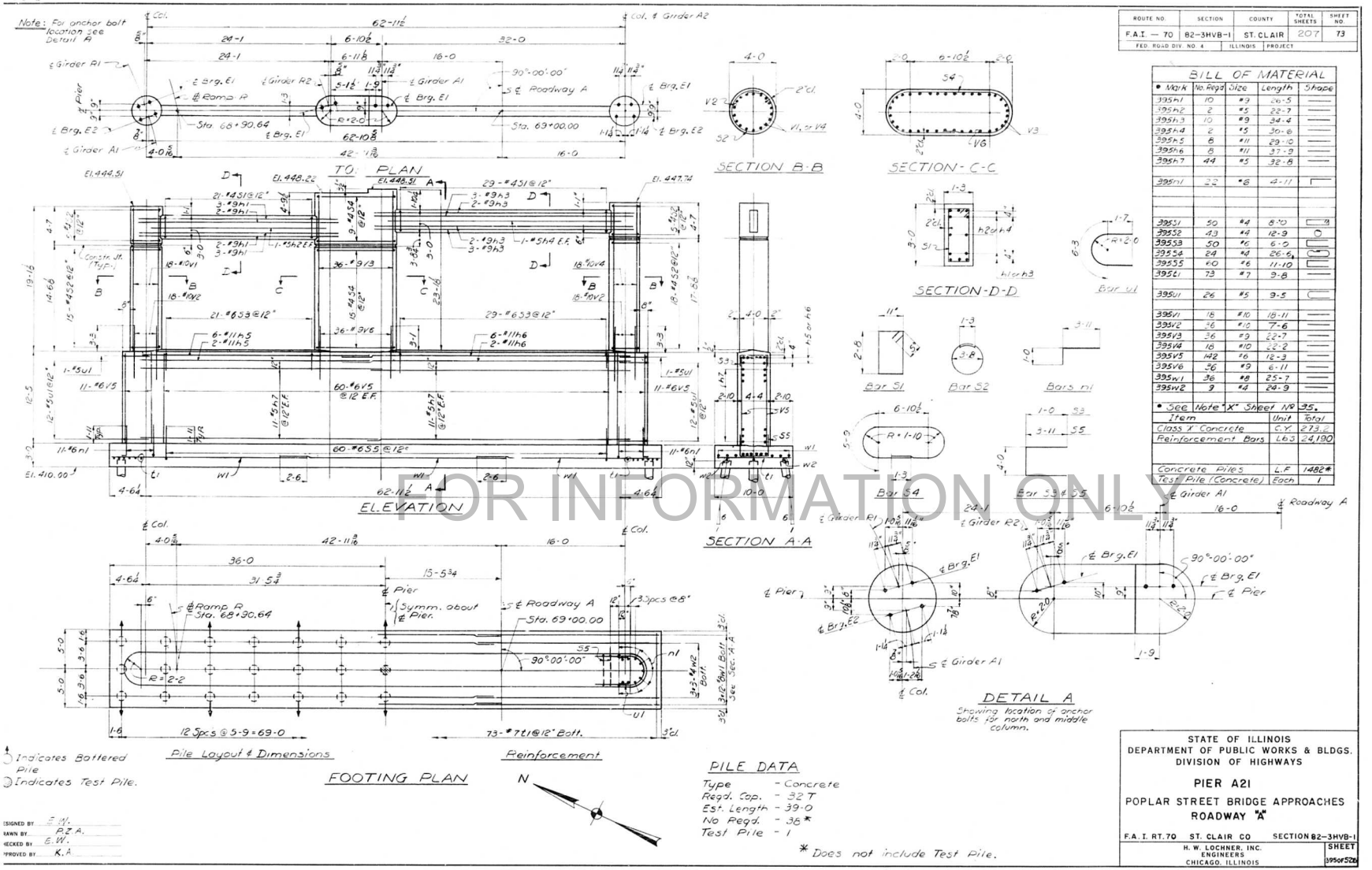
PIER A20

POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

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

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

SHEET 394 OF 526



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. — 70	82-3HVB-1	ST. CLAIR	207	73
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

• Mark	No. Reqd.	Size	Length	Shape
395h1	10	#9	26-5	
395h2	2	#5	22-7	
395h3	10	#9	34-4	
395h4	2	#5	30-6	
395h5	8	#11	29-10	
395h6	8	#11	37-9	
395h7	44	#5	32-8	
395n1	22	#6	4-11	
395S1	50	#4	8-10	
395S2	43	#4	12-9	
395S3	50	#6	6-7	
395S4	24	#4	26-6	
395S5	40	#6	11-10	
395u1	73	#7	9-8	
395u1	26	#5	9-5	
395V1	18	#10	18-11	
395V2	36	#10	7-6	
395V3	36	#9	22-7	
395V4	18	#10	22-2	
395V5	142	#6	12-3	
395V6	36	#9	6-11	
395w1	36	#8	25-7	
395w2	9	#4	20-9	

• See Note "X" Sheet Nº 95.

Item	Unit	Total
Class X Concrete	C.Y.	273.2
Reinforcement Bars	Lbs	24,190
Concrete Piles	L.F	1482*
Test Pile (Concrete)	Each	1

DESIGNED BY E.W.
DRAWN BY P.Z.A.
CHECKED BY E.W.
APPROVED BY K.A.

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

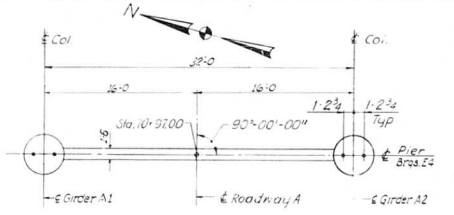
PIER A21

POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

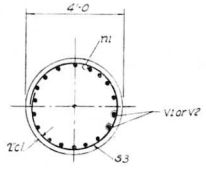
F.A.I. RT. 70 ST. CLAIR CO SECTION 82-3HVB-1

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

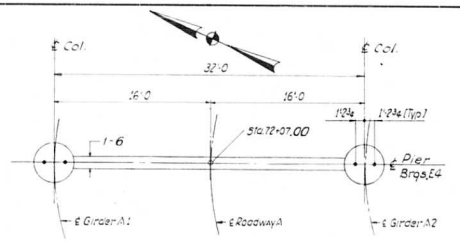
SHEET 395 OF 526



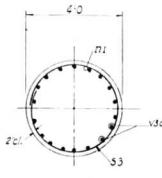
TOP PLAN - PIER A23



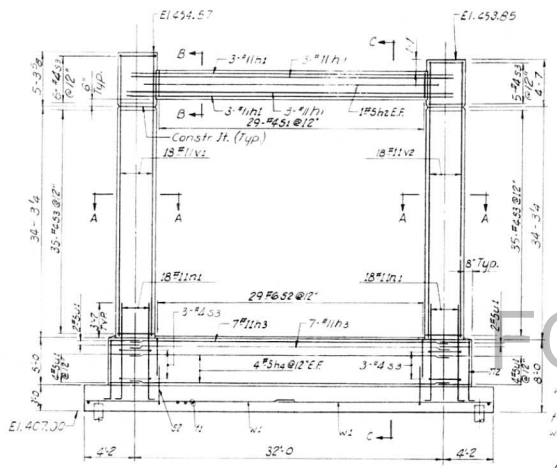
SECTION A-A



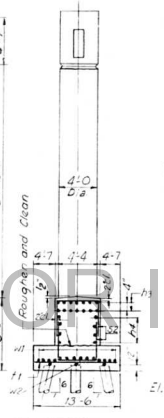
TOP PLAN - PIER A24



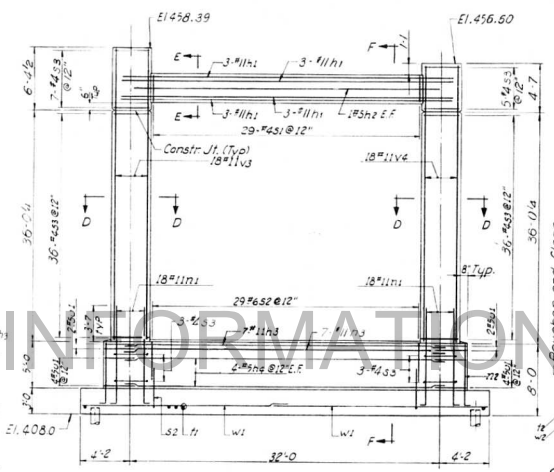
SECTION D-D



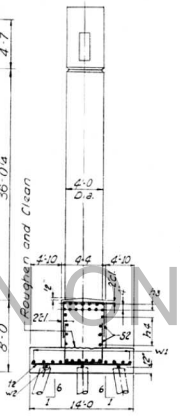
ELEVATION - PIER A23



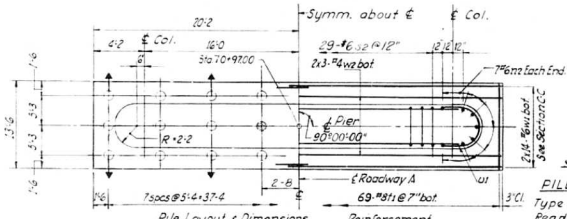
SECTION C-C



ELEVATION - PIER A24

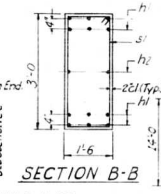


SECTION F-F



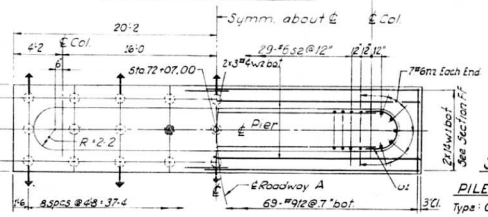
FOOTING PLAN - PIER A23

↑ Indicates battered pile
○ Indicates test pile



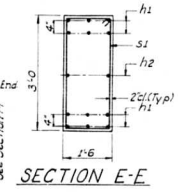
SECTION B-B

PILE DATA
Type: Concrete
Req'd. Capacity: 34 TONS
Est. Length: 36'-0
No. Req'd: 25*
Test Pile 1
* Does not include Test Pile



FOOTING PLAN - PIER A24

↑ Indicates battered pile
○ Indicates test pile



SECTION E-E

PILE DATA
Type: Concrete
Req'd. Capacity: 35 Tons
Est. Length: 48'-0
No. Req'd.: 26*
Test Pile: 1
* Does not include Test Pile

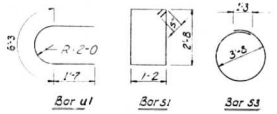
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. — 70	82-3HVB-1	ST. CLAIR	207	74
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

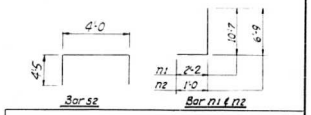
BILL OF MATERIAL

*Mark	No. Req'd. Pier A23	No. Req'd. Pier A24	Size	Length	Shape
396 h1	12	12	#11	34'-4	
396 h2	2	2	#5	30'-6	
396 h3	14	14	#11	33'-0	
396 h4	8	8	#5	33'-0	
396 n1	36	36	#11	12'-9	
396 n2	14	14	#6	7'-9	
396 s1	29	29	#4	8'-6	
396 s2	58	58	#6	12'-10	
396 s3	66	90	#4	12'-9	○
396 t1	69		#8	13'-2	
396 t2		69	#9	13'-8	
396 w1	28	28	#6	21'-0	
396 w2	6	6	#4	20'-7	
396 v1	18		#11	39'-5	
396 v2	18		#11	36'-8	
396 v3		18	#11	42'-2	
396 v4		18	#11	40'-5	
396 u1	12	12	#5	9'-5	

*See Note "X" Sh. No. 35.

Item	Unit	Total Pier A23	Total Pier A24
Class 'X' Concrete	C.Y.	130.3	134.5
Reinforcement Bars	Lbs.	20,580	21,820
Concrete Piles	L.F.	628*	1248*
Test Piles (concrete)	Ea.	1	1





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

PIERS A23 AND A24

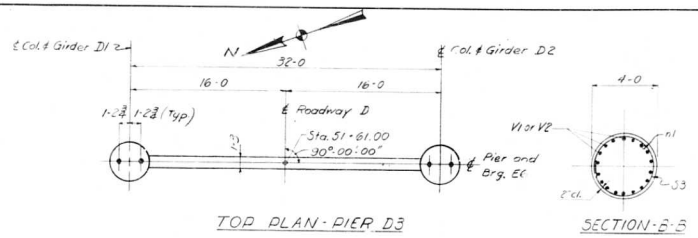
POPLAR STREET BRIDGE APPROACHES
ROADWAY A

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

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

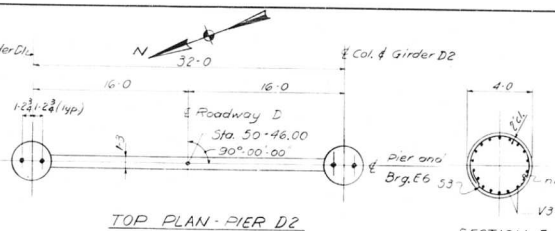
SHEET 396 of 526

DESIGNED BY E.W.
DRAWN BY R.J.L.
CHECKED BY E.W.
APPROVED BY K.A.



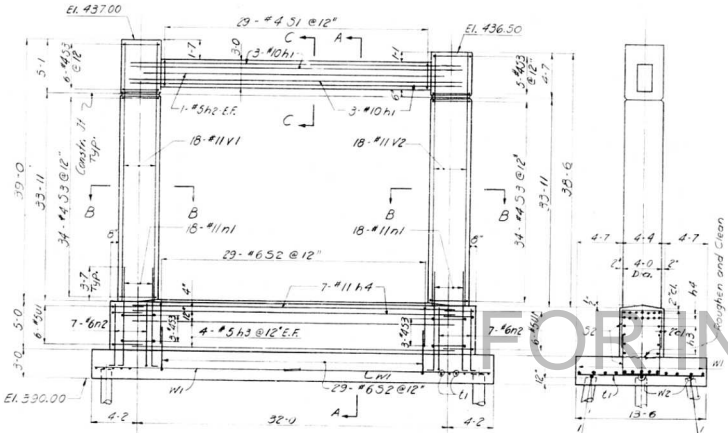
TOP PLAN - PIER D3

SECTION B-B



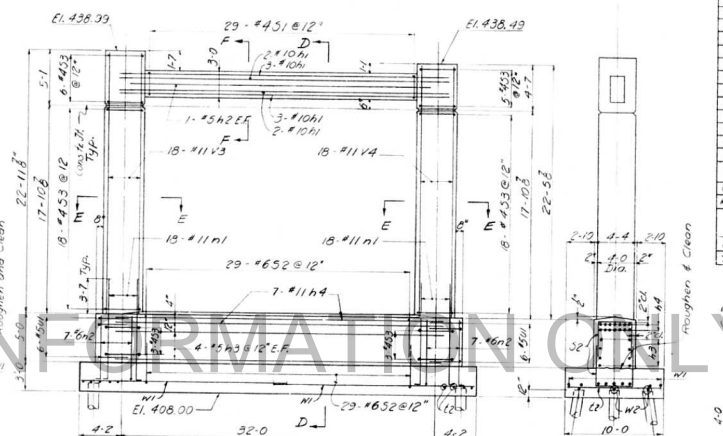
TOP PLAN - PIER D2

SECTION E-E



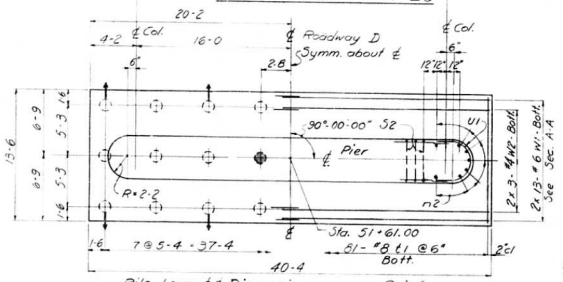
ELEVATION - PIER D3

SECTION A-A

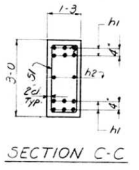


ELEVATION - PIER D2

SECTION D-D



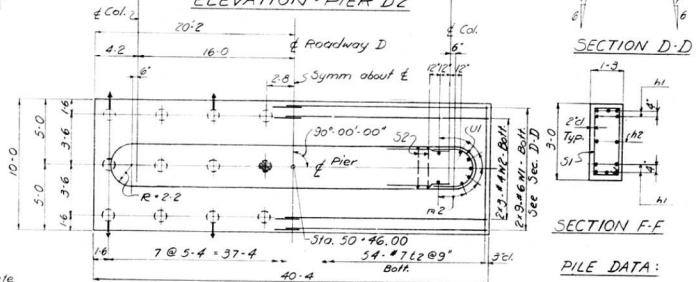
FOOTING PLAN - PIER D3



SECTION C-C

PILE DATA:

Type	- Concrete
Reqd. Cap.	- 35 T
Est. Length	- 31-0
No. Reqd.	- 23*
Test Pile	- 1



FOOTING PLAN - PIER D2

SECTION F-F

PILE DATA:

Type	- Concrete
Reqd. Cap.	- 35 T
Est. Length	- 44'-0
No. Reqd.	- 23*
Test Pile	- 1

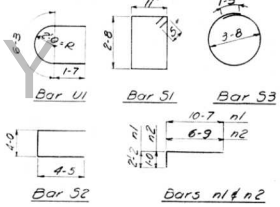
* Does not include Test Piles.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-1	ST. CLAIR	207	75
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

Mark	No. Req'd Pier D2	No. Req'd Pier D3	Size	Length	Shape
3971h1	10	12	#10	34-4	
3971h2	2	2	#5	30-6	
3971h3	8	8	#5	33-0	
3971h4	14	14	#11	33-0	
3971n1	36	36	#11	12-9	
3971n2	14	14	#6	7-9	
3971S1	29	29	#4	8-0	
3971S2	58	58	#6	12-10	
3971S3	53	85	#4	12-9	
3971t1	-	81	#8	13-2	
3971t2	54	-	#7	9-8	
3971U1	12	12	#5	9-5	
3971V1	-	18	#11	38-10	
3971V2	-	18	#11	38-4	
3971V3	18	-	#11	22-10	
3971V4	18	-	#11	22-4	
3971W1	18	26	#6	21-0	
3971W2	6	6	#4	20-7	
• See Note "X" Sheet No 35.					

Item	Unit	Total Pier D2	Total Pier D3
Class 'X' Concrete	C.Y.	98.3	128.1
Reinforcement Bars	Lbs	14,760	20,410
Concrete Piles	L.F.	1012 *	713 *
Test Piles (Concrete)	Ea.	1	1



◊ Indicates battered pile.
◉ Indicates Test Pile

DESIGNED BY E.W.
DRAWN BY R.P.A.
CHECKED BY A.T.
APPROVED BY K.A.

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

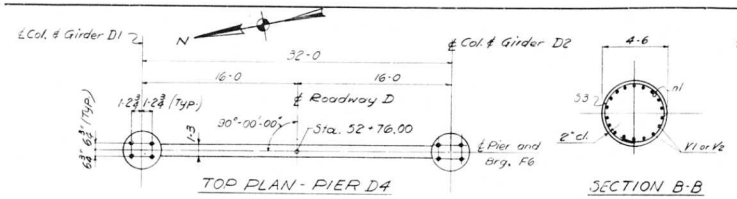
PIERS D2 AND D3

POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

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

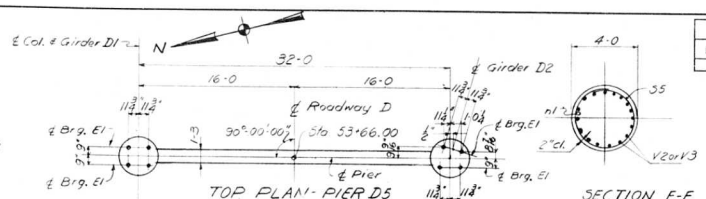
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 397 OF 526



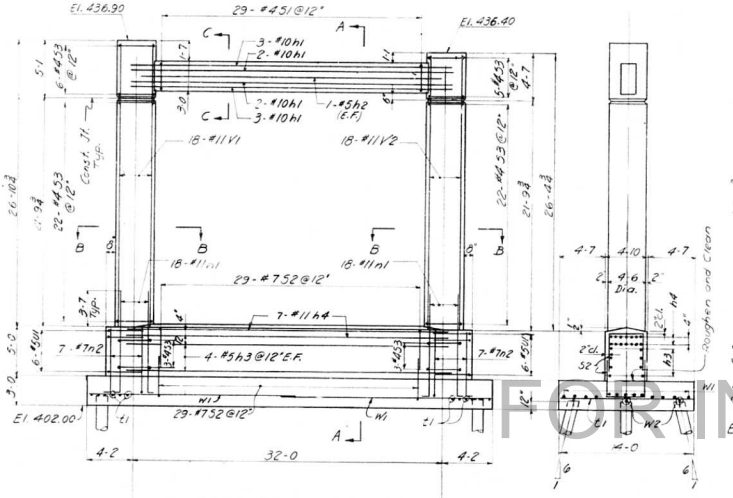
TOP PLAN - PIER D4

SECTION B-B



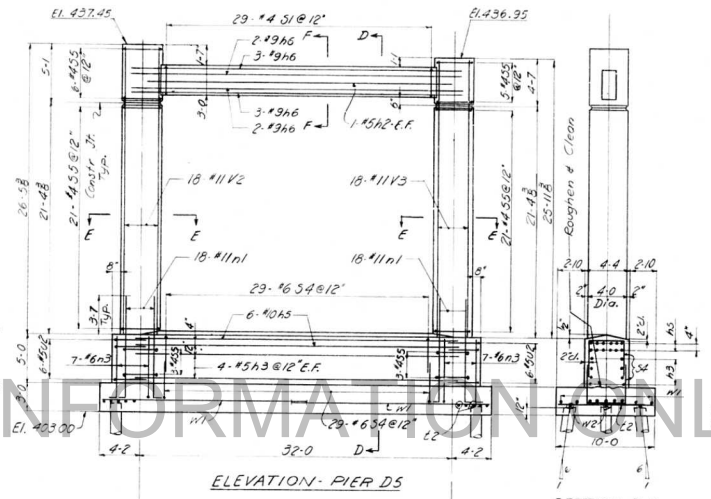
TOP PLAN - PIER D5

SECTION E-E



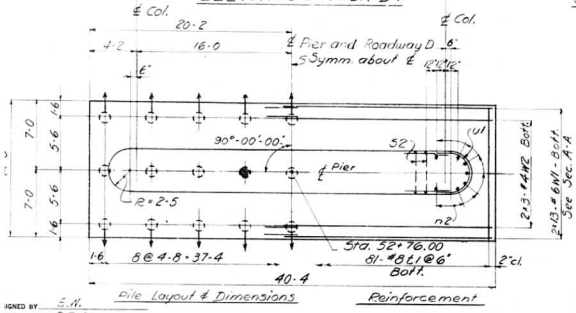
ELEVATION - PIER D4

SECTION A-A

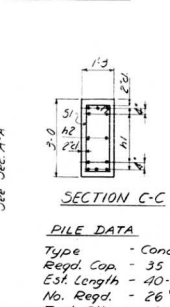


ELEVATION - PIER D5

SECTION D-D



Pile Layout & Dimensions



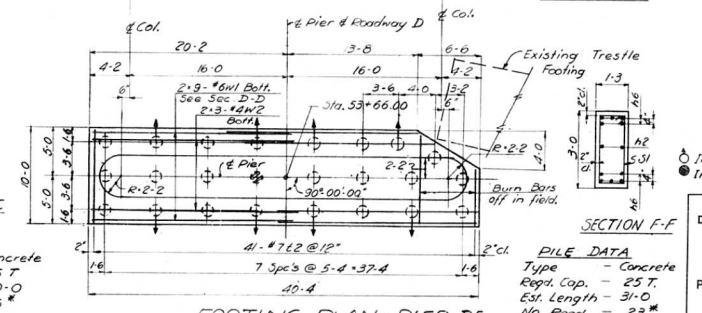
Reinforcement

FOOTING PLAN - PIER D4

SECTION C-C

PILE DATA

Type - Concrete
Regd. Cap. - 35 T
Est. Length - 40-0
No. Regd. - 26*
Test Pile - 1



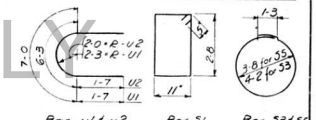
FOOTING PLAN - PIER D5

SECTION F-F

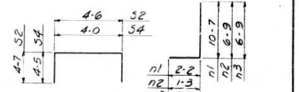
PILE DATA

Type - Concrete
Regd. Cap. - 25 T.
Est. Length - 31-0
No. Regd. - 23*
Test Pile - 1

* Does not include Test Pile.



Bar u1 & u2 | Bar S1 | Bar S3 & S5



Bar S2 & S4 | Bars n1, n2 & n3

○ Indicates battered pile.
● Indicates Test Pile.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-1	ST. CLAIR	207	76
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

• Mark	No. Regd Pier D4	No. Regd Pier D5	Size	Length	Shape
398h1	10	-	#10	34-4	
398h2	2	2	#5	30-6	
398h3	8	8	#5	33-0	
398h4	14	-	#11	33-0	
398h5	-	12	#10	33-0	
398h6	-	10	#9	34-4	
398S1	29	29	#4	8-0	
398S2	58	-	#7	13-6	
398S3	61	-	#4	14-4	
398S4	-	58	#6	12-10	
398S5	-	59	#4	12-9	
398U1	81	-	#8	13-8	
398U2	-	41	#7	9-8	
398U1	12	-	#5	10-2	
398U2	-	12	#5	9-5	
398V1	18	-	#11	26-9	
398V2	18	18	#11	26-3	
398V3	-	18	#11	25-9	
398W1	26	15	#6	21-0	
398W2	6	6	#4	20-7	
398n1	36	36	#11	12-9	
398n2	14	-	#7	8-0	
398n3	-	14	#6	7-9	

• See Note "X" Sheet No 35.

Item	Unit	Total Pier D4	Total Pier D5
Class 'X' Concrete	C.Y.	132.2	100.2
Reinforcement Bars	Lbs	18,350	14,140
Concrete Piles	L.F.	1040*	713*
Test Piles (Concrete)	Each	1	1

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

PIERS D4 AND D5

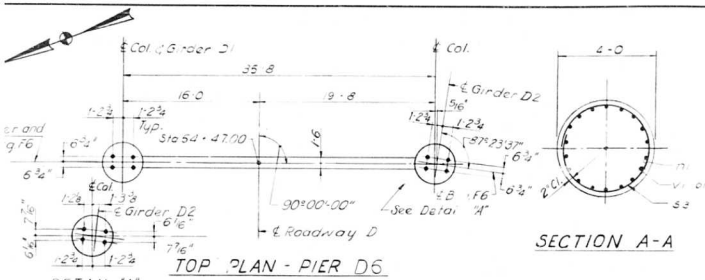
POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

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

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

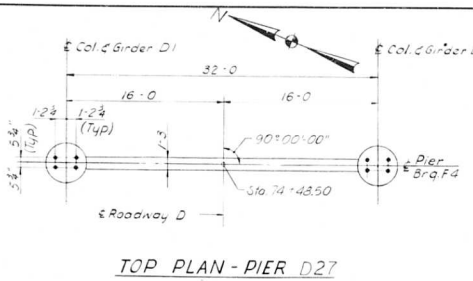
SHEET 30 OF 52

DESIGNED BY E.W.
DRAWN BY P.Z.A.
CHECKED BY A.T.
APPROVED BY K.A.

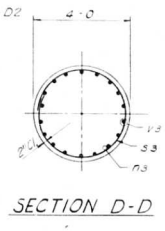


TOP PLAN - PIER D6

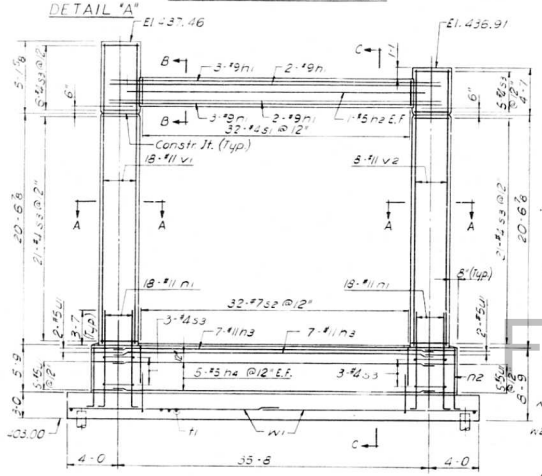
SECTION A-A



TOP PLAN - PIER D27

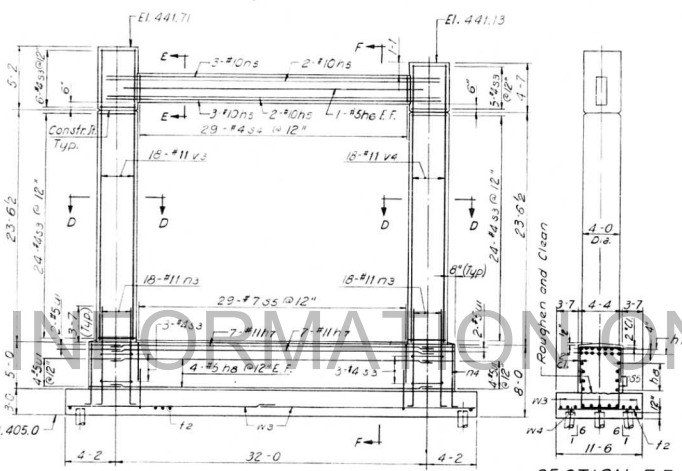


SECTION D-D



ELEVATION - PIER D6

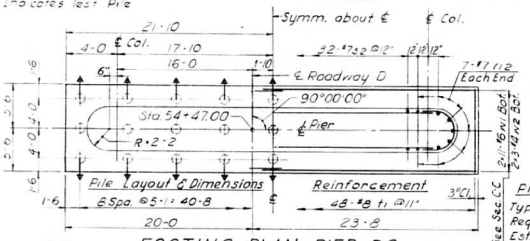
SECTION C-C



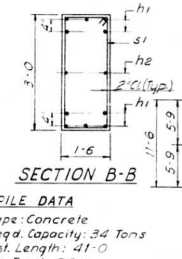
ELEVATION - PIER D27

SECTION F-F

Indicates Buttered Pile
Indicates Test Pile

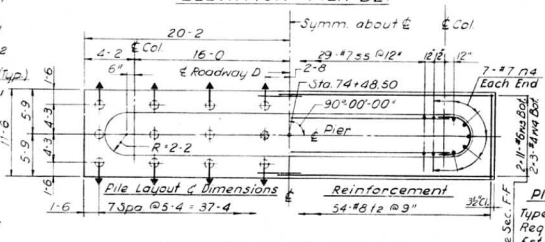


FOOTING PLAN - PIER D6

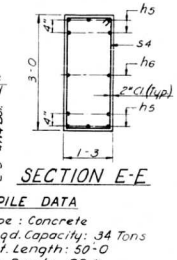


SECTION B-B

PILE DATA
Type: Concrete
Reqd. Capacity: 34 Tons
Est. Length: 41'-0
No. Reqd.: 26 *
Test Pile: 1
* Does not include Test Pile



FOOTING PLAN - PIER D27



SECTION E-E

PILE DATA
Type: Concrete
Reqd. Capacity: 34 Tons
Est. Length: 50'-0
No. Reqd.: 23 *
Test Pile: 1
* Does not include Test Pile

BY	
	E.W.
	I.M.
BY	E.W.
BY	K.A.

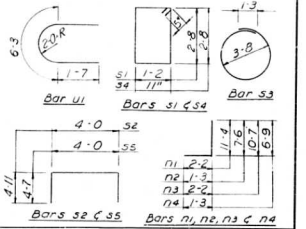
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82—3HVB-1	ST. CLAIR	207	77
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

•Mark	No. Reqd. Per D6	No. Reqd. Per D27	Size	Length	Shape
399 h1	10	—	# 9	38'-0	
399 h2	2	—	# 5	34'-2	
399 h3	14	—	# 11	36'-6	
399 h4	10	—	# 5	36'-8	
399 h5	—	10	# 10	34'-4	
399 h6	—	2	# 5	30'-6	
399 h7	—	14	# 11	33'-0	
399 h8	—	8	# 5	33'-0	
399 n1	36	—	# 11	13'-6	
399 n2	14	—	# 7	8'-9	
399 n3	—	36	# 11	12'-9	
399 n4	—	14	# 7	8'-0	
399 s1	32	—	# 4	8'-6	
399 s2	64	—	# 7	13'-0	
399 s3	59	65	# 4	12'-9	
399 s4	—	29	# 4	8'-9	
399 s5	—	58	# 7	13'-2	
399 t1	48	—	# 8	10'-8	
399 t2	—	54	# 8	11'-2	
399 u1	14	12	# 5	9'-5	
399 v1	18	—	# 11	25'-5	
399 v2	18	—	# 11	25'-0	
399 v3	—	18	# 11	28'-6	
399 v4	—	18	# 11	27'-11	
399 w1	22	—	# 6	22'-6	
399 w2	6	—	# 4	22'-4	
399 w3	—	22	# 6	21'-0	
399 w4	—	6	# 4	20'-8	

•See Note "X" Sh. No. 35.

Item	Unit	Total Pier D6	Total Pier D27
Class "X" Concrete	C.Y.	18.6	110.5
Reinforcement Bars	Lbs.	16,960	17,090
Concrete Piles	L.F.	1066 *	1150 *
Test Piles (concrete)	Ea.	1	1



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

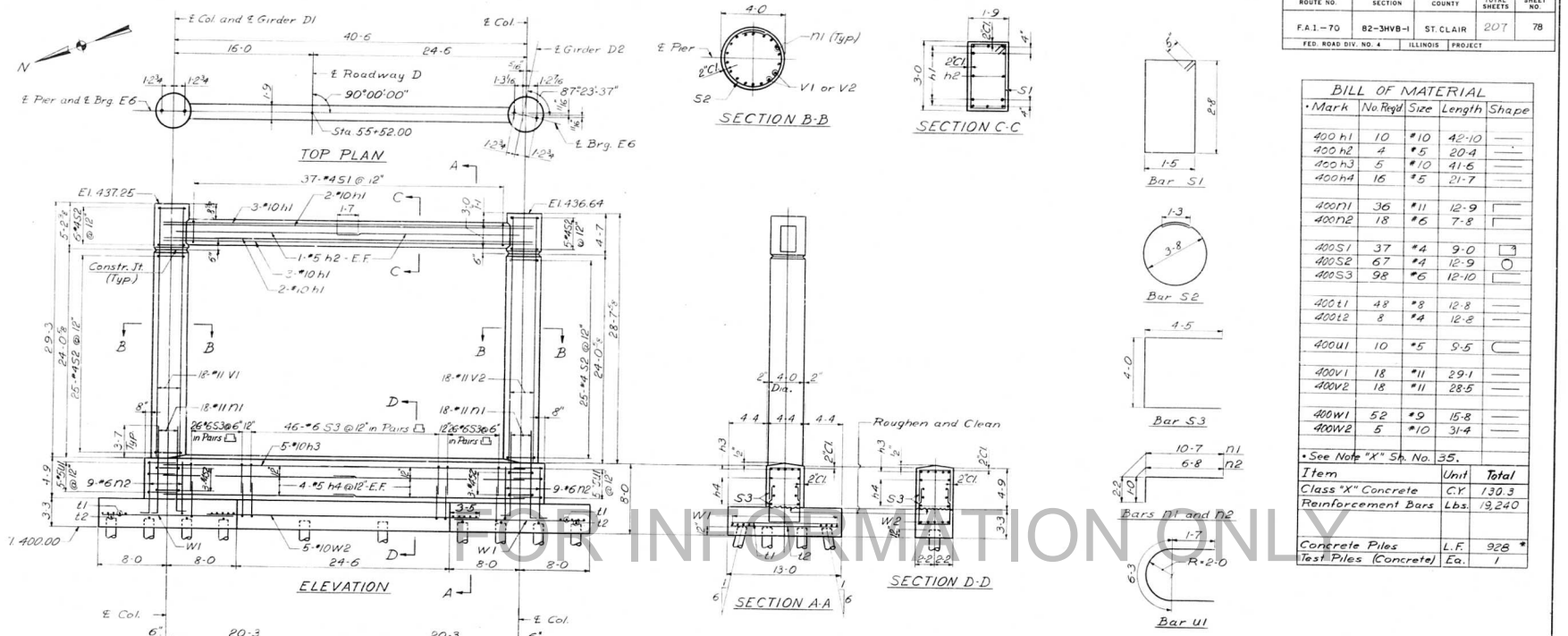
PIERS D6 AND D27

POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

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

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

SHEET 399 or 526



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.–70	82–3HVB–1	ST. CLAIR	207	78
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

• Mark	No. Reqd	Size	Length	Shape
400 h1	10	#10	42-10	—
400 h2	4	#5	20-4	—
400 h3	5	#10	41-6	—
400 h4	16	#5	21-7	—
400 n1	36	#11	12-9	⌐
400 n2	18	#6	7-8	⌐
400 S1	37	#4	9-0	□
400 S2	67	#4	12-9	○
400 S3	98	#6	12-10	⌐
400 t1	48	#8	12-8	—
400 t2	8	#4	12-8	—
400 u1	10	#5	9-5	⊂
400 V1	18	#11	29-1	—
400 V2	18	#11	28-5	—
400 W1	52	#9	15-8	—
400 W2	5	#10	31-4	—
• See Note "X" Sh. No. 35.				

Item	Unit	Total
Class "X" Concrete	C.Y.	130.3
Reinforcement Bars	Lbs.	19,240
Concrete Piles	L.F.	928 *
Test Piles (Concrete)	Ea.	1

PILE DATA:

Type: Concrete
Reqd. Capacity: 32 T
Est. Length: 32-0
No. Reqd.: 29*
Test Piles: 1

*Does not include Test Pile.

DESIGNED BY E.W.
DRAWN BY S.A.
CHECKED BY E.W.
APPROVED BY K.A.

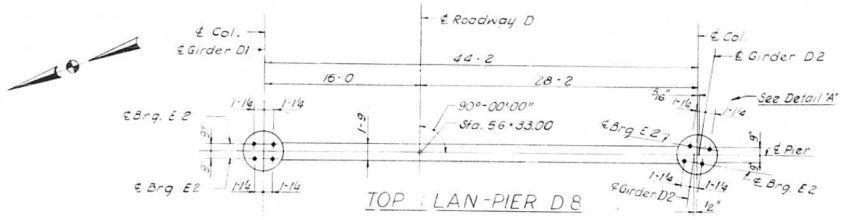
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS

PIER D7
POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

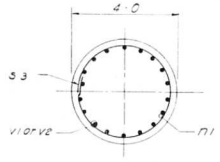
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-1

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

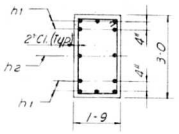
SHEET 400 OF 526



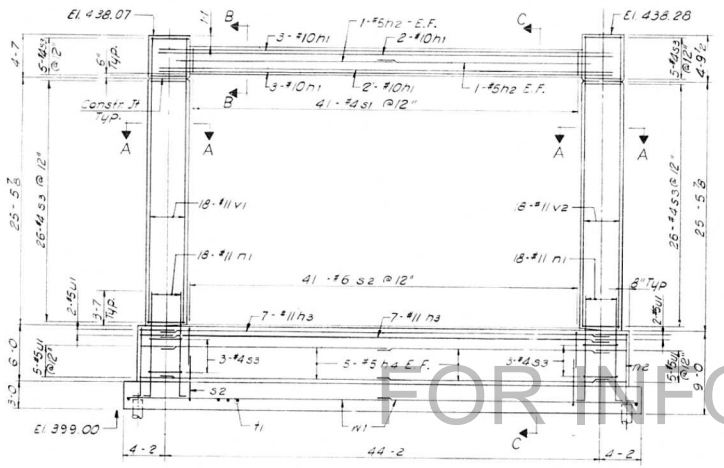
TOP PLAN-PIER D8



SECTION A-A

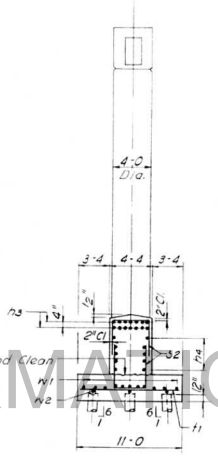


SECTION B-B

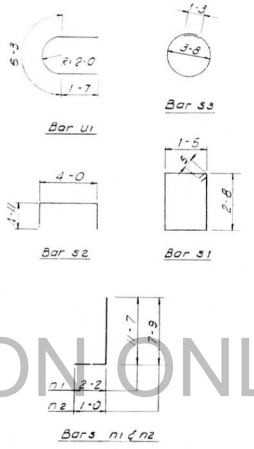


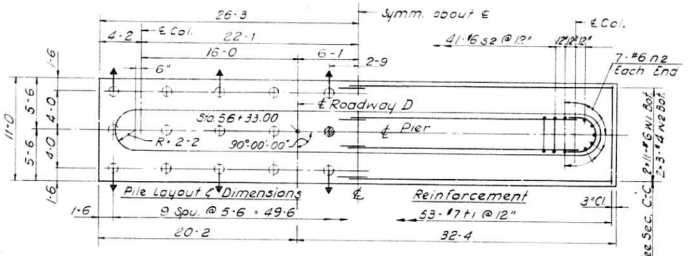
ELEVATION - PIER D8

Indicates Battered Pile
Indicates Test Pile



SECTION C-C

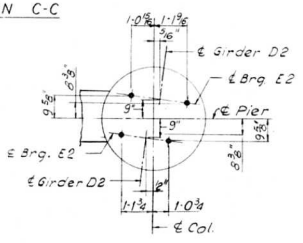




FOOTING PLAN-PIER D8

PILE DATA
Type : Concrete
Reqd. Capacity : 26 T.
Est. Length : 28-0
No. Reqd. : 29 *
Test Pile : 1

*Does not include Test Pile



DETAIL "A"

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-1	ST. CLAIR	207	79
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

*Mark	No Reqd	Size	Length	Shape
401 n1	10	#10	46-6	—
401 h2	4	#5	22-1	—
401 h3	14	#11	45-2	—
401 h4	20	#5	23-4	—
401 n1	36	#11	13-9	L
401 n2	14	#6	8-9	L
401 s1	41	#4	9-0	▭
401 s2	82	#6	13-10	▭
401 s3	68	#4	12-9	○
401 t1	53	#7	10-8	—
401 u1	14	#5	9-5	⊂
401 v1	18	#11	29-11	—
401 v2	18	#11	30-1	—
401 w1	22	#6	27-1	—
401 w2	6	#4	26-9	—

* See Note "X" Sh. No. 35.

Item	Unit	Total
Class "X" Concrete	C.Y.	146.2
Reinforcement Bars	Lbs.	19,320
Concrete Piles	L.F.	812*
Test Piles (concrete)	Ea.	1

SIGNED BY E.W.
DRAWN BY I.M.
CHECKED BY E.W.
APPROVED BY K.A.

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

PIER D8

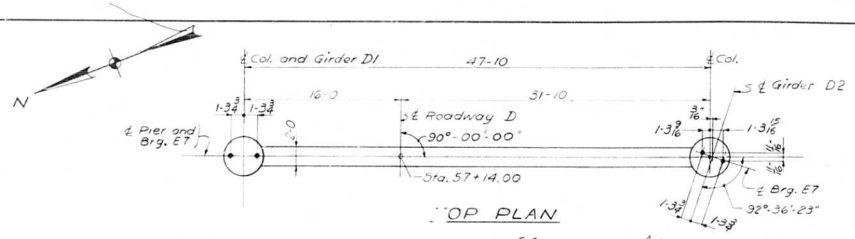
POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

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

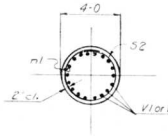
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 401 OF 526

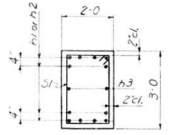
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. – 70	82-3HVB-1	ST. CLAIR	207	80
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



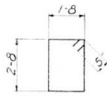
TOP PLAN



SECTION-B-B



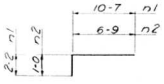
SECTION-C-C



Bar S1

Bar S2

Bar S3



Bar n1 & n2

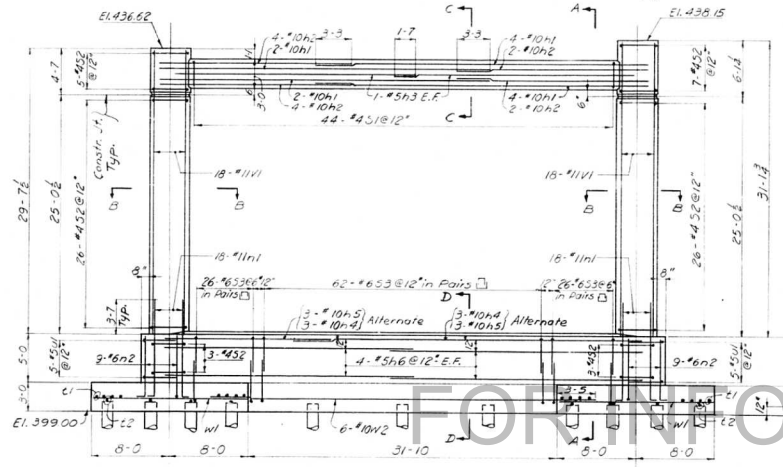
Bar J1

BILL OF MATERIAL

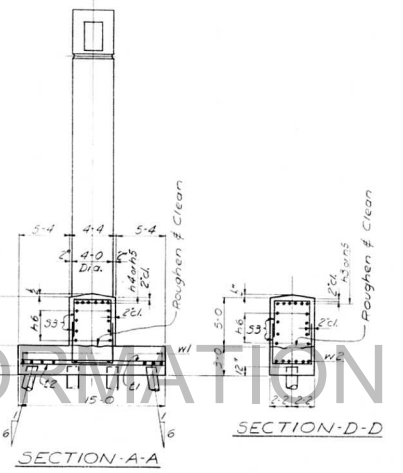
• Mark	No. Reqd.	Size	Length	Shape
402h1	12	#10	35-0	—
402h2	12	#10	18-5	—
402h3	4	#5	24-0	—
402h4	6	#10	15-11	—
402h5	6	#10	36-2	—
402h6	16	#5	25-3	—
402n1	36	#11	12-9	⌐
402n2	18	#6	7-9	⌐
402S1	44	#4	9-6	⌐
402S2	70	#4	12-9	○
402S3	114	#6	12-10	⌐
402t1	64	#8	14-8	—
402t2	8	#4	14-8	—
402U1	10	#5	9-5	⊂
402V1	18	#11	29-5	—
402V2	18	#11	31-0	—
402W1	52	#10	15-8	—
402W2	6	#10	38-8	—

• See Note 'V' Sheet No. 35.

Item	Unit	Total
Class 'X' Concrete	C.Y.	147.7
Reinforcement Bars	Lbs	23,310
Concrete Piles	L.F.	1326*
Test Pile (Concrete)	Each	1



ELEVATION

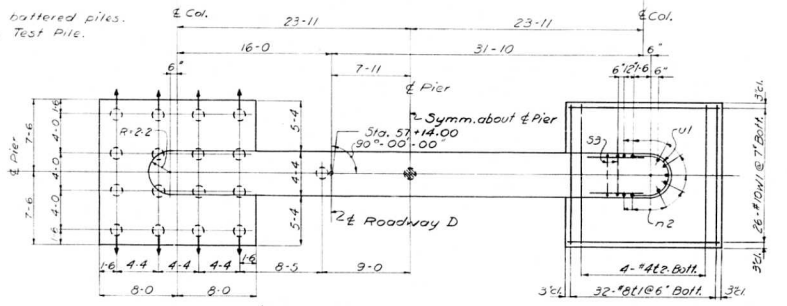


SECTION-A-A

SECTION-D-D

FOR INFORMATION ONLY

) Indicates battered piles.
) Indicates Test Pile.



Pile Layout & Dimensions

Reinforcement

FOOTING PLAN

PILE DATA

Type - Concrete
Reqd. Cap. - 34 T.
Est. Length - 39-0
No. Reqd. - 34*
Test Pile - 1

* Does not Include Test Pile.

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

PIER D9

POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

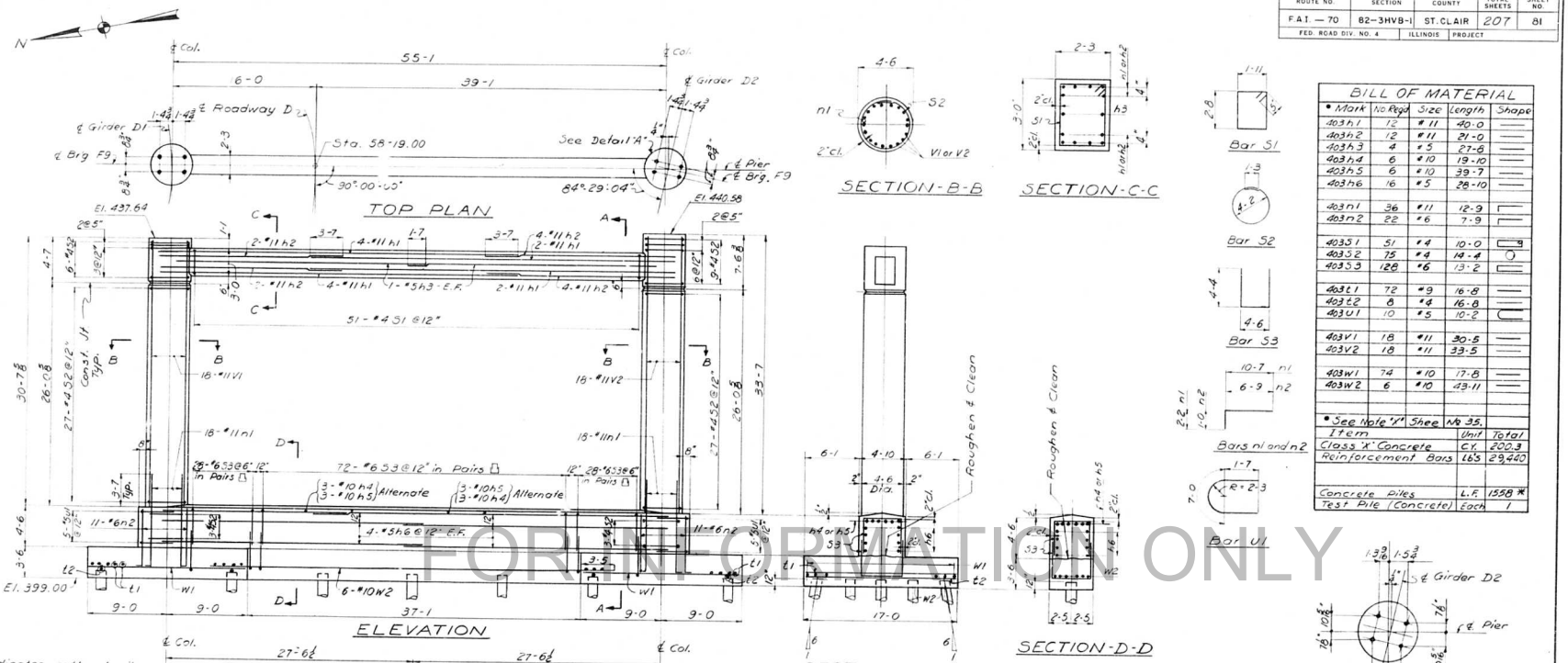
F.A.I. RT. 70 ST. CLAIR CO SECTION 82-3HVB-1

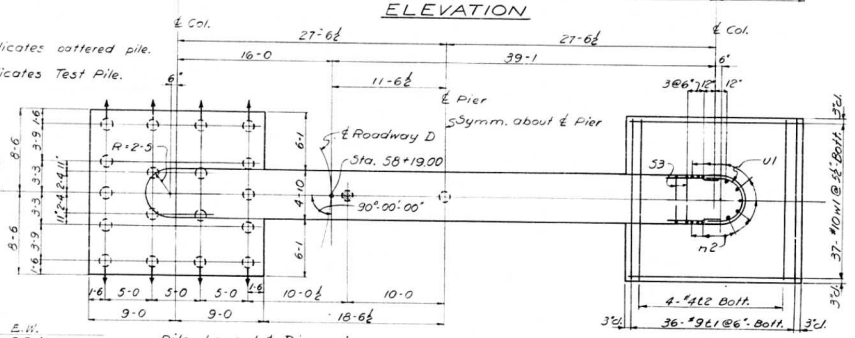
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 402 OF 526

ED BY E.W.
BY P.T.A.
D BY E.W.
/ED BY K.A.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. — 70	82–3HVB-1	ST. CLAIR	207	81
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		





BILL OF MATERIAL				
• Mark	No. Reqd.	Size	Length	Shape
403 h1	12	#11	40-0	
403 h2	12	#11	21-0	
403 h3	4	#5	27-6	
403 h4	6	#10	19-10	
403 h5	6	#10	39-7	
403 h6	16	#5	28-10	
403 n1	36	#11	12-9	
403 n2	22	#6	7-9	
403 S1	51	#4	10-0	
403 S2	75	#4	14-4	
403 S3	128	#6	13-2	
403 t1	72	#9	16-8	
403 t2	8	#4	16-8	
403 U1	10	#5	10-2	
403 V1	18	#11	30-5	
403 V2	18	#11	33-5	
403 W1	74	#10	17-8	
403 W2	6	#10	43-11	
• See Note "1"	Sheet No. 35.			

Item	Unit	Total
Class 'X' Concrete	C.Y.	200.3
Reinforcement Bars	Lb's	29,400
Concrete Piles	L.F.	1558 *
Test Pile (Concrete)	Each	1

Bar S1 · Bar S2 · Bar S3 · Bars n1 and n2 · Bar U1

PILE DATA
Type - Concrete
Reqd. Cap. - 36T
Est. Length - 41-0
No. Reqd. - 38*
Test Pile - 1

*Does not include Test Pile.

SIGNED BY E.W.
DRAWN BY P.Z.A.
CHECKED BY E.W.
APPROVED BY K.A.

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

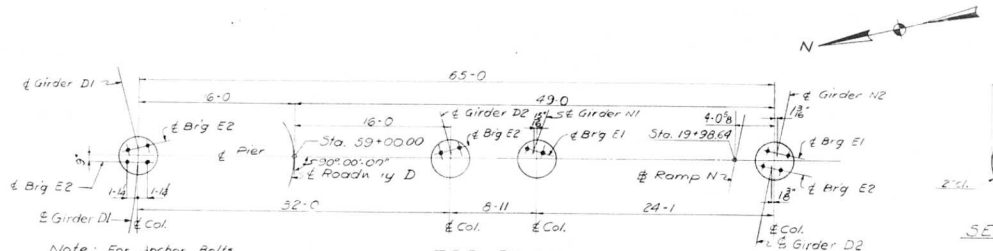
PIER D10

POPLAR STREET BRIDGE APPROACHES
ROADWAY 'D'

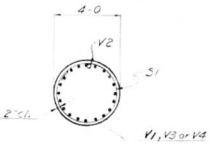
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-1

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

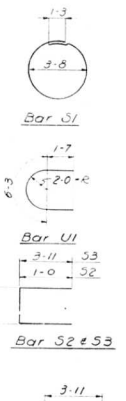
SHEET 403 of 526



TOP PLAN



SECTION-B-B



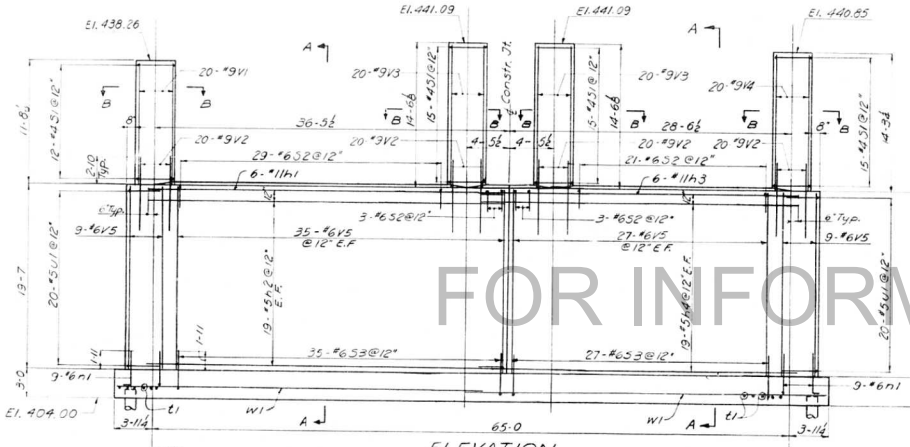
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. — 70	82-3HVB-1	ST. CLAIR	207	82
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

BILL OF MATERIAL

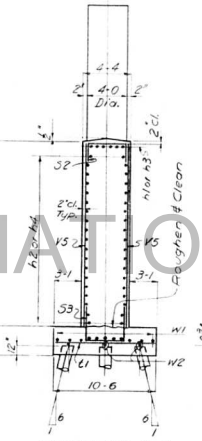
* Mark	No. Reqd.	Size	Length	Shape
404 h1	6	#11	36-3	
404 h2	38	#5	36-8	
404 h3	6	#11	32-9	
404 h4	38	#5	31-0	
404 n1	18	#6	4-11	
404 S1	57	#4	12-9	
404 S2	54	#4	6-0	
404 S3	62	#4	11-10	
404 t1	96	#7	10-2	
404 U1	40	#5	9-5	
404 V1	20	#9	11-6	
404 V2	80	#9	6-8	
404 V3	40	#9	14-4	
404 V4	20	#9	14-1	
404 V5	142	#6	19-5	
404 W1	22	#8	37-5	
404 W2	9	#4	25-0	

Item	Unit	Total
Class A Concrete	C.Y.	327e
Reinforcement Bars	Lbs	20,660
Concrete Piles	L.F.	1435 *
Test Pile (Concrete)	Each	1

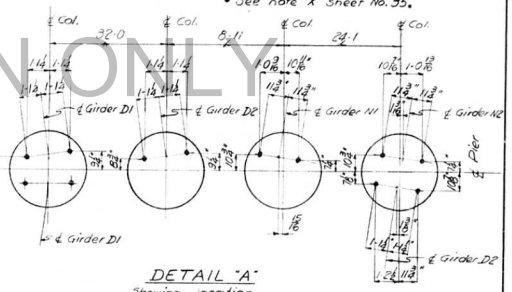
* See note 'X' sheet No. 35.



ELEVATION

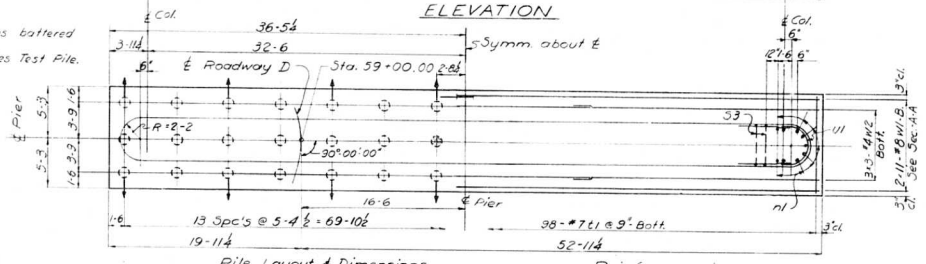


SECTION-A-A



DETAIL 'A'
Showing location of Anchor Bolts

○ indicates battered pile.
◎ indicates Test Pile.



Pile Layout & Dimensions

FOOTING PLAN

Reinforcement

PILE DATA

Type	Concrete
Reqd. Cap.	36 T
Est. Length	35'-0
No. Reqd.	41 *
Test Pile	1

* Does not include Test Pile.

DRAWN BY E.W.
TRACED BY P.Z.A.
CHECKED BY E.W.
APPROVED BY K.A.

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

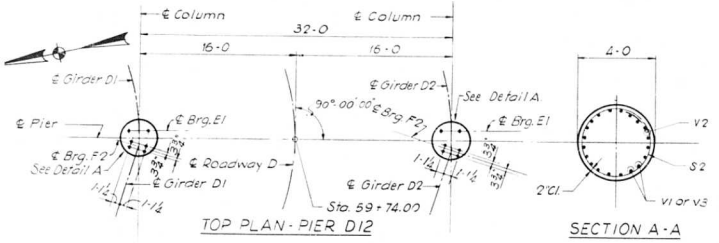
PIER D11

POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

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

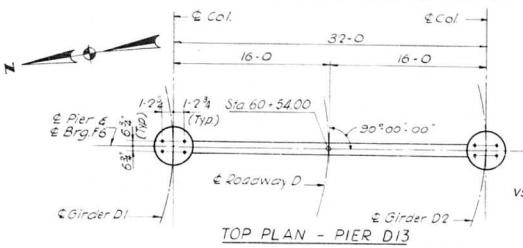
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 404 OF 207

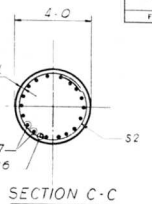


TOP PLAN - PIER D12

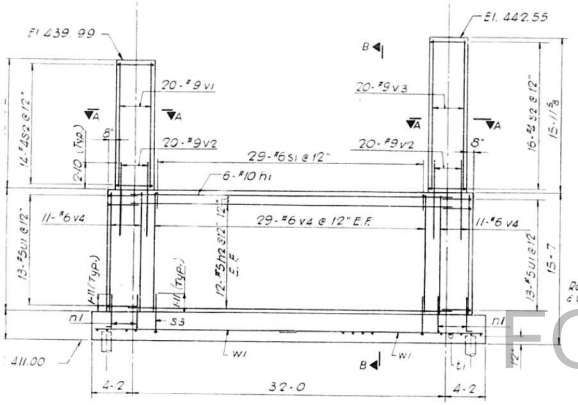
SECTION A-A



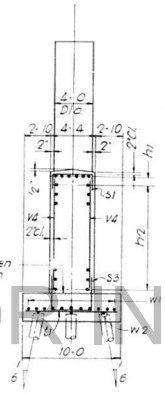
TOP PLAN - PIER D13



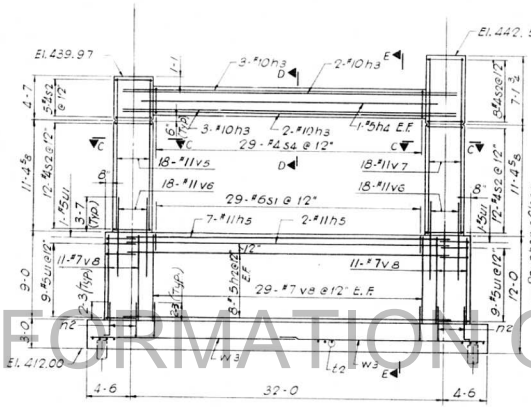
SECTION C-C



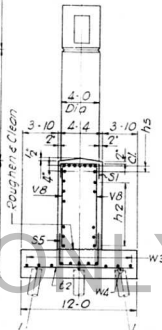
ELEVATION - PIER D12



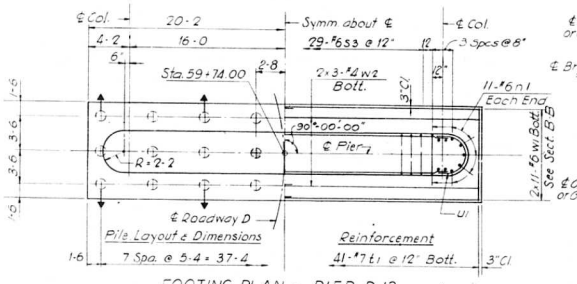
SECTION B-B



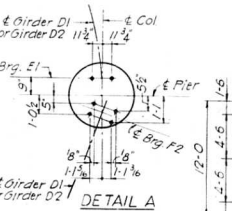
ELEVATION PIER D13



SECTION E-E



FOOTING PLAN - PIER D12



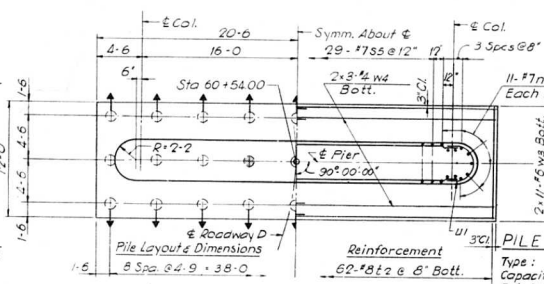
DETAIL A

PILE DATA-D12

Type	: Concrete
Reqd. Capacity	: 30 T
Est. Length	: 35-0
No. Reqd.	: 23 *
Test Pile	: 1

* Does not include Test Pile

○ Indicates Battered Pile
⊕ Indicates Test Pile

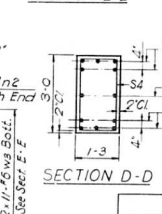


FOOTING PLAN - PIER D13

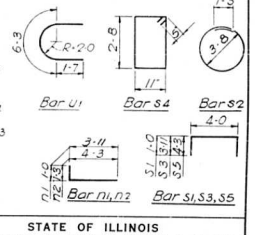
PILE DATA-D13

Type :	Concrete
Capacity :	34 T
Est. Length :	41-0
No. Reqd.	26 *
Test Pile :	1

* Does not include Test Pile



SECTION D-D



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-1	ST. CLAIR	207	83
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

Mark	No. Req'd. Pier D12	No. Req'd. Pier D13	Size	Length	Shape
405h1	6	—	#10	33-0	—
405h2	24	16	#5	33-0	—
405h3	—	10	#10	32-4	—
405h4	—	2	#5	30-6	—
405h5	—	9	#11	33-0	—
405n1	22	—	#6	4-11	⌐
405n2	-	22	#7	5-6	⌐
405S1	29	29	#6	6-0	□
405S2	30	37	#4	12-9	○
405S3	29	—	#6	11-10	⊏
405S4	—	29	#4	8-0	⊏
405S5	—	29	#7	12-6	⊏
405t1	41	—	#7	9-8	—
405t2	—	62	#8	11-8	—
405V1	20	—	#9	13-3	—
405V2	40	—	#9	6-8	—
405V3	20	—	#9	15-9	—
405V4	80	—	#6	12-5	—
405V5	—	18	#11	15-9	—
405V6	—	36	#11	9-2	—
405V7	—	18	#11	18-4	—
405V8	—	80	#7	8-10	—
405W1	22	—	#6	21-1	—
405W2	6	—	#4	20-9	—
405W3	—	22	#6	21-4	—
405W4	—	6	#4	21-0	—
405U1	26	20	#5	9-5	C

*See Note "X" Sh. No. 35.

Item	Unit	Total Pier D12	Total Pier D13
Class "X" Concrete	C.Y.	131.3	126.5
Reinforcement Bars	Lbs	9,090	14,760
Concrete Piles	L.F.	805 *	1066 *
Test Pile (Concrete)	Ea.	1	1

DESIGNED BY	E.W.
DRAWN BY	V.R.
CHECKED BY	E.W.
APPROVED BY	K.A.

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

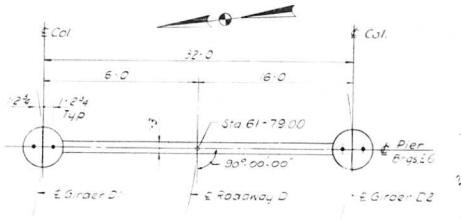
PIERS D12 AND D13

POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

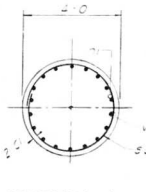
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-1

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

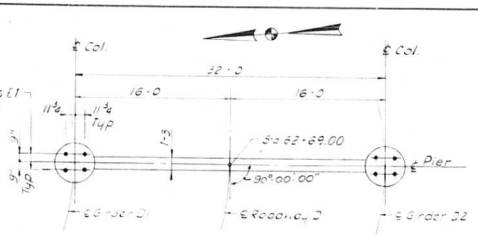
SHEET 405 of 526



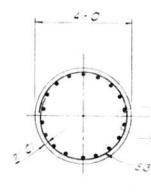
TOP PLAN - PIER D14



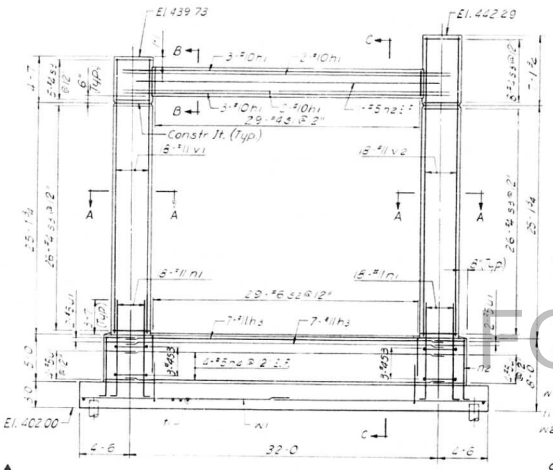
SECTION A-A



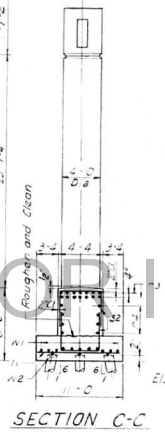
TOP PLAN - PIER D15



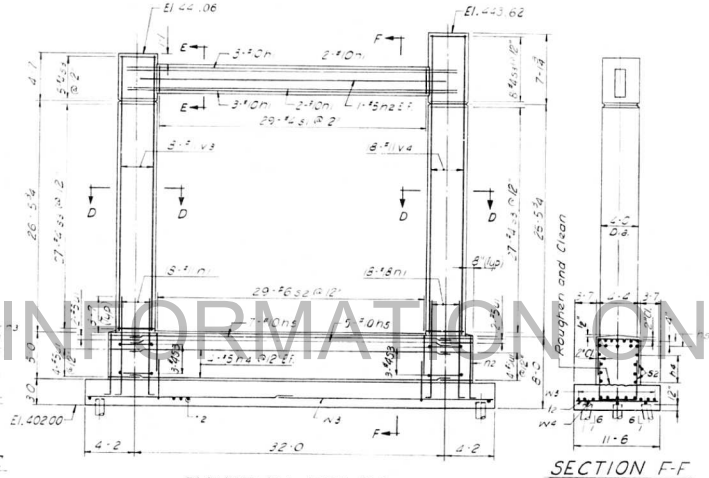
SECTION D-D



ELEVATION - PIER D14



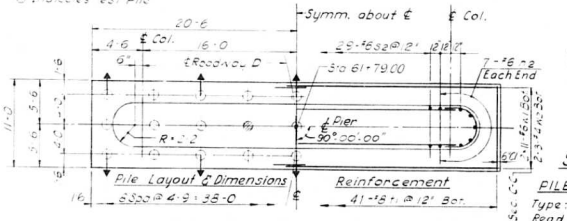
SECTION C-C



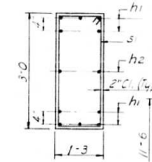
ELEVATION - PIER D15

SECTION F-F

Indicates Borehole Pile
Indicates Test Pile

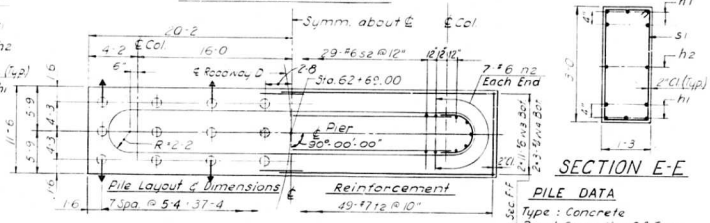


FOOTING PLAN - PIER D14



SECTION B-B

PILE DATA
Type: Concrete
Reqd. Capacity: 33 Tons
Est. Length: 38'-0
No. Reqd.: 26 *
Test Pile: 1
* Does not include Test Pile



FOOTING PLAN - PIER D15

SECTION E-E

PILE DATA
Type: Concrete
Reqd. Capacity: 28 Tons
Est. Length: 41'-0
No. Reqd.: 23 *
Test Pile: 1
* Does not include Test Pile

DESIGNED BY	E.W.
DRAWN BY	I.M.
CHECKED BY	E.W.
APPROVED BY	K.A.

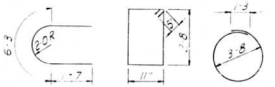
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-1	ST. CLAIR	207	84
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

BILL OF MATERIAL

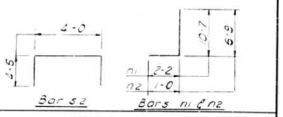
*Mark	No. Reqd. Pier D14	No. Reqd. Pier D15	Size	Length	Shape
406 n1	0	10	#10	34'-4	
406 n2	2	2	#5	30'-6	
406 n3	14	-	#11	33'-0	
406 n4	6	8	#5	33'-0	
406 n5	-	12	#10	33'-0	
406 n1	36	36	#11	2'-9	
406 n2	14	14	#6	7'-9	
406 S1	29	29	#4	8'-0	
406 S2	58	58	#6	12'-10	
406 S3	73	73	#4	2'-9	
406 t1	41	-	#6	10'-8	
406 t2	-	49	#7	11'-2	
406 u1	12	12	#5	9'-5	
406 V1	18	-	#11	29'-7	
406 V2	18	-	#11	32'-1	
406 V3	-	18	#11	29'-11	
406 V4	-	18	#11	33'-5	
406 W1	22	-	#6	2'-4	
406 W2	6	-	#4	20'-11	
406 W3	-	22	#6	21'-0	
406 W4	-	6	#4	20'-7	

*See Note "K" Sh. No. 35.

Item	Unit	Total Pier D14	Total Pier D15
Class "K" Concrete	C.Y.	111.4	114.2
Reinforcement Bars	Lbs.	6,700	16,090
Concrete Piles	L.F.	988 *	943 *
Test Piles (concrete)	Ea.	1	1



Bar u1 Bar s1 Bar s3



Bar s2 Bars n1 & n2

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

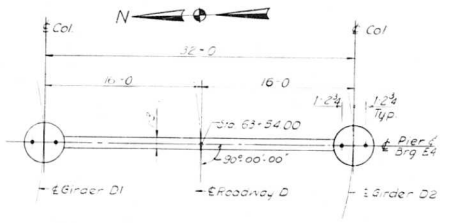
PIERS D14 AND D15

POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

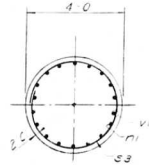
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-1

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

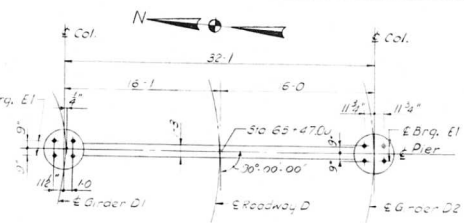
SHEET 406 OF 526



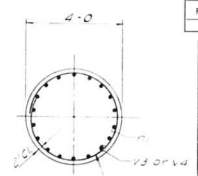
TOP PLAN - PIER D16



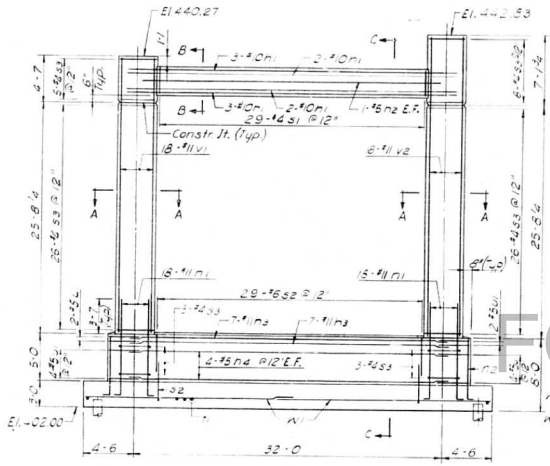
SECTION A-A



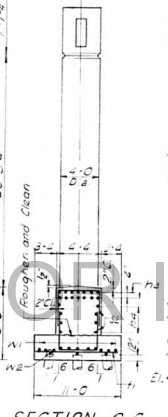
TOP PLAN - PIER D18



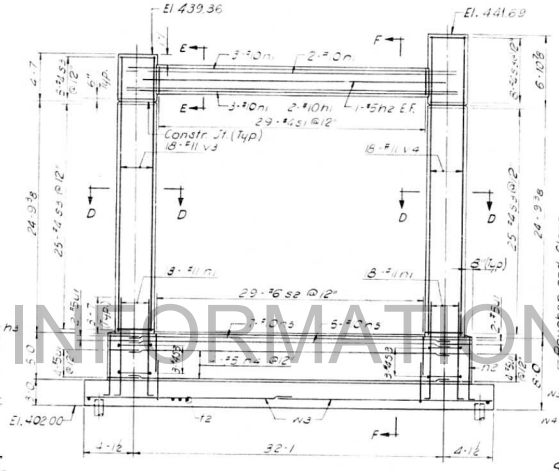
SECTION D-D



ELEVATION - PIER D16



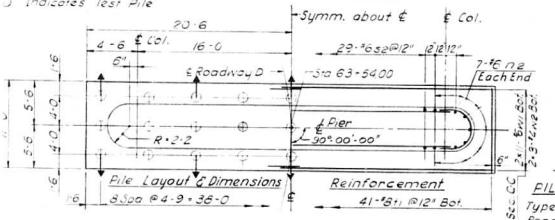
SECTION C-C



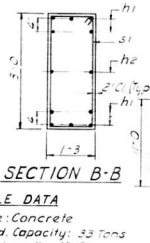
ELEVATION - PIER D18

SECTION F-F

○ Indicates Test Pile

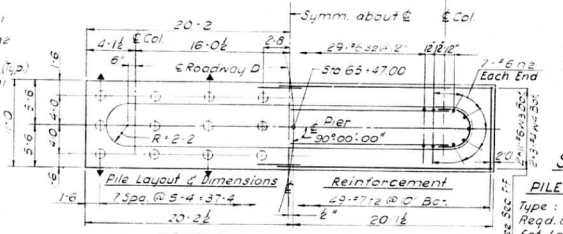


FOOTING PLAN - PIER D16

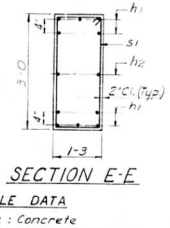


SECTION B-B

PILE DATA
Type : Concrete
Reqd. Capacity : 33 Tons
Est. Length : 43'-0
No. Reqd. : 26 *
Test Pile : 1
* Does not include Test Pile



FOOTING PLAN - PIER D18



SECTION E-E

PILE DATA
Type : Concrete
Reqd. Capacity : 29 Tons
Est. Length : 39'-0
No. Reqd. : 23 *
Test Pile : 1
* Does not include Test Pile

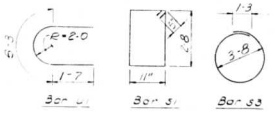
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82-3HVB-1	ST. CLAIR	207	85
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

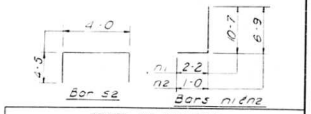
BILL OF MATERIAL

*Mark	No. Reqd. Pier D16	No. Reqd. Pier D18	Size	Length	Shape
407 h1	10	10	#10	34'-4	
407 h2	2	2	#5	30'-6	
407 h3	14	-	#7	33'-0	
407 h4	8	8	#5	33'-0	
407 h5		12	#10	33'-0	
407 n1	36	36	#11	2'-9	
407 n2	14	14	#6	7'-9	
407 S1	29	29	#4	6'-0	
407 S2	58	58	#6	12'-10	
407 S3	71	69	#4	12'-9	
407 t1	41	-	#8	10'-8	
407 t2	-	49	#7	10'-8	
407 U1	2	2	#5	9'-5	
407 V1	8	-	#11	30'-1	
407 V2	18	-	#11	32'-8	
407 V3	-	18	#11	29'-2	
407 V4	-	18	#11	31'-6	
407 n1	22	-	#6	21'-4	
407 n2	6	-	#4	20'-11	
407 n3	-	22	#6	21'-0	
407 n4	-	6	#4	20'-7	

*See Note "K" Sh. No. 35.

Item	Unit	Total Pier D16	Total Pier D18
Class "K" Concrete	C.Y.	111.7	110.3
Reinforcement Bars	Lbs.	6,830	5,750
Concrete Piles	L.F.	1118*	897*
Test Piles (concrete)	Ea.	1	1





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

PIERS D16 AND D18

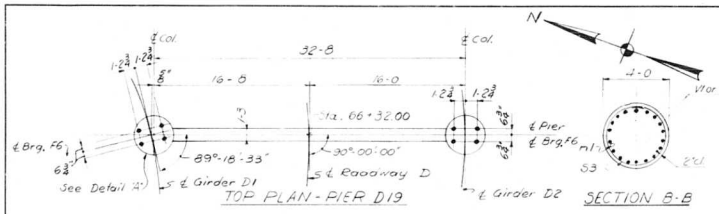
POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

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

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

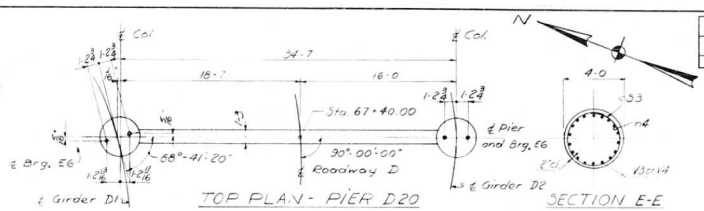
SHEET 407 or 526

SIGNED BY E.N.
DRAWN BY I.M.
CHECKED BY E.N.
APPROVED BY K.A.



TOP PLAN - PIER D19

SECTION B-B



TOP PLAN - PIER D20

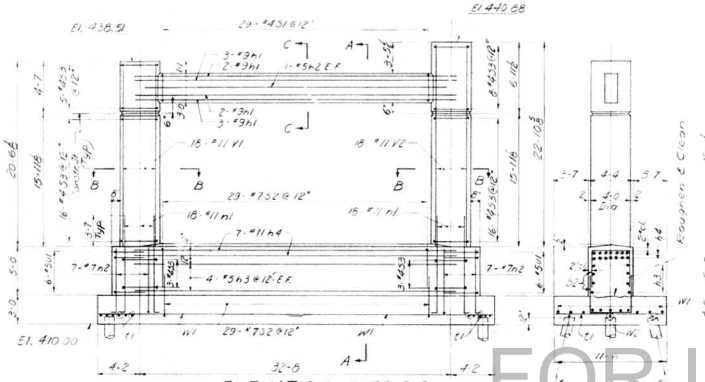
SECTION E-E

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-1	ST. CLAIR	207	86
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

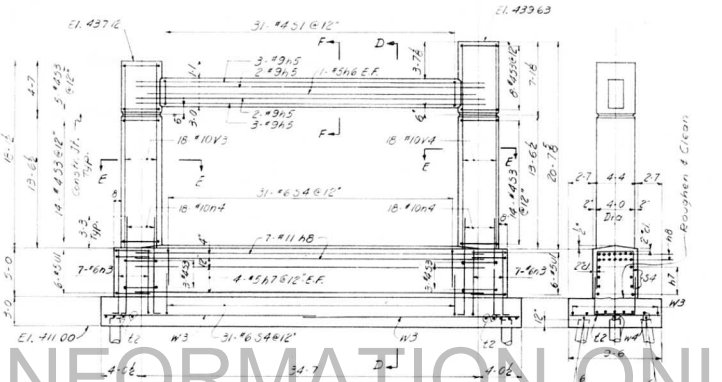
• Mark	No. Reqd Pier D19	No. Reqd Pier D20	Size	Length	Shape
408h1	10	-	#9	35-0	
408h2	2	-	#5	31-2	
408h3	6	-	#5	33-6	
408h4	14	-	#11	33-6	
408h5	-	10	#9	37-0	
408h6	-	2	#5	33-2	
408h7	-	8	#5	35-6	
408h8	-	14	#11	35-6	
408n1	36	-	#11	12-9	
408n2	10	-	#7	8-0	
408n3	-	14	#6	7-9	
408n4	-	36	#10	12-2	
408S1	29	31	#4	8-0	
408S2	58	-	#7	13-2	
408S3	51	47	#4	12-9	
408S4	-	82	#6	12-10	
408t1	55	-	#8	11-2	
408t2	-	57	#6	9-2	
408U1	12	12	#5	9-5	
408V1	18	-	#11	20-4	
408V2	18	-	#11	22-8	
408W3	-	18	#10	17-11	
408W4	-	18	#10	20-5	
408W1	22	-	#6	21-4	
408W2	6	-	#4	21-4	
408W3	-	18	#6	22-0	
408W4	-	6	#4	22-0	
• See Note "X"			Sheet No 35.		

Item	Unit	Total Pier D19	Total Pier D20
Class 'X' Concrete	C.Y.	105.6	980
Reinforcement Bars	Lbs	15,440	12630
Concrete Piles	L.F.	1248 *	1058 *
Test Piles	Each	1	1



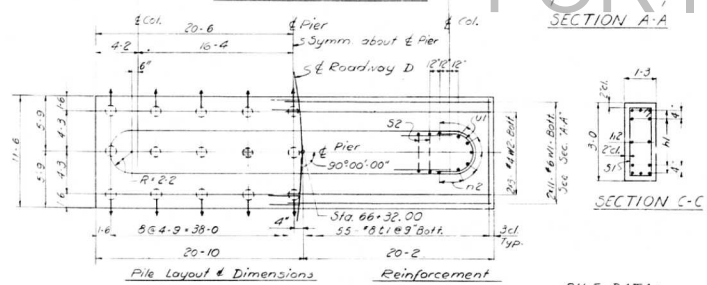
ELEVATION - PIER D19

SECTION A-A

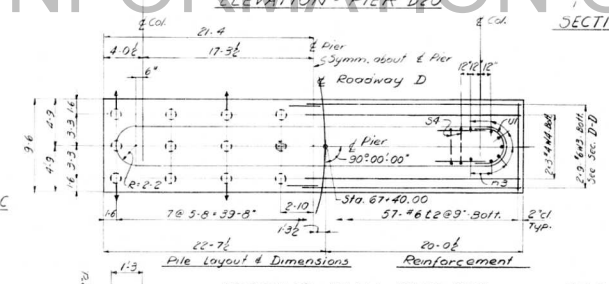


ELEVATION - PIER D20

SECTION D-D

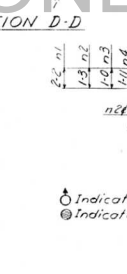


FOOTING PLAN PIER D19

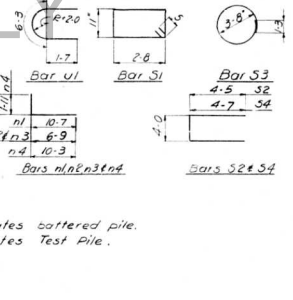


FOOTING PLAN - PIER D20

SECTION C-C



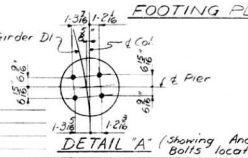
SECTION F-F



○ Indicates battered pile.
◎ Indicates Test Pile.

PILE DATA:
Type - Concrete
Regd. Cap. - 33 T
Est. Length - 48-0
No. Regd. - 26*
Test Pile - 1

PILE DATA:
Type - Concrete
Regd. Cap. - 33 T
Est. Length - 46-0
No. Regd. - 23*
Test Pile - 1



DETAIL "A" (Showing Anchor Bolts location.)

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

* Does not include Test Pile.

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

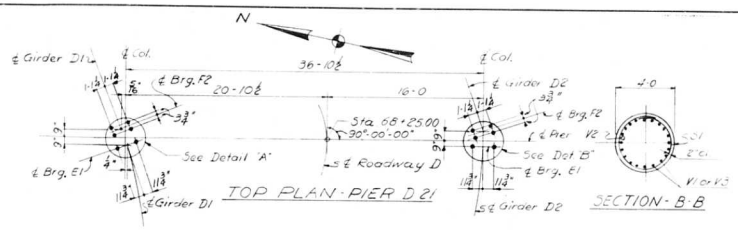
PIERS D19 AND D20

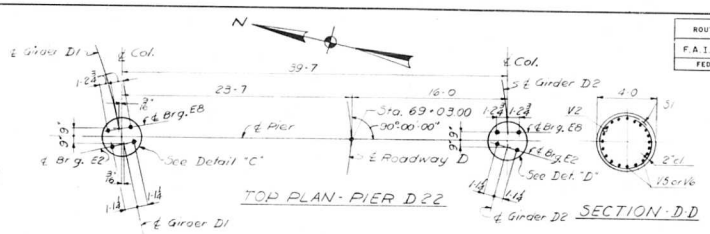
POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

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

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

SHEET 408D1926



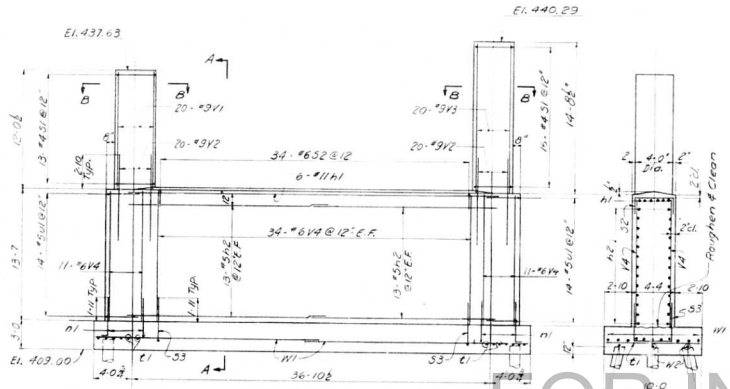


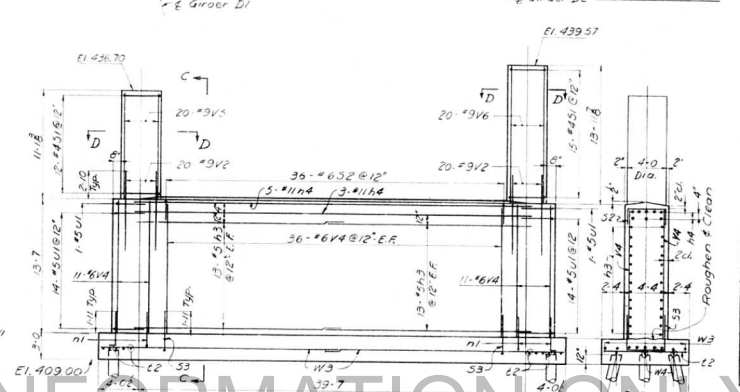
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RT. 70	82-3HVB-1	ST. CLAIR	207	87
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

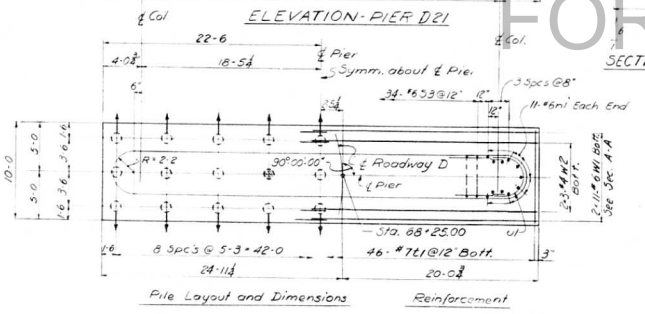
BILL OF MATERIAL

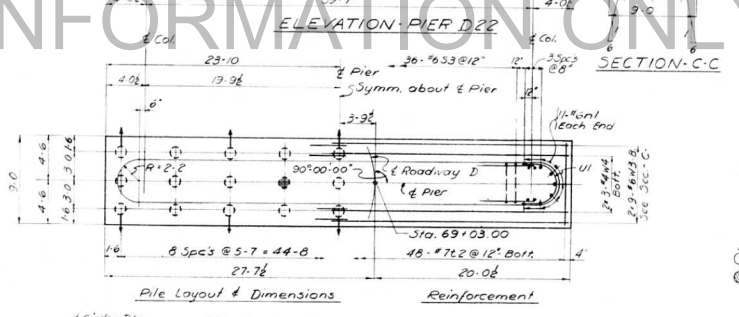
* Mark	No. Req'd Per D21	No. Req'd Per D22	Size	Length	Shape
409N1	6	-	#11	37-11	
409N2	52	-	#5	19-9	
409N3	-	52	#5	21-1	
409N4	-	8	#11	40-7	
409N1	22	22	#6	4-11	
409S1	23	27	#4	12-9	
409S2	34	36	#6	6-0	
409S3	34	36	#6	11-10	
409E1	46	-	#7	9-8	
409E2	-	48	#7	8-8	
409U1	28	30	#5	9-5	
409V1	20	-	#9	11-10	
409V2	40	40	#9	6-8	
409V3	20	-	#9	14-6	
409V4	30	34	#6	13-5	
409V5	-	20	#9	10-11	
409V6	-	20	#9	13-10	
409W1	22	-	#6	23-4	
409W2	6	-	#4	23-0	
409W3	-	18	#6	24-8	
409W4	-	6	#4	24-4	
* See Note "*" Sheet No. 35					

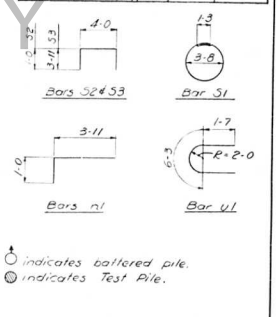
Item	Unit	Total Per D21	Total Per D22
Class 'X' Concrete	C.Y.	151.7	154.5
Reinforcement Bars	Lbs	10,160	10,620
Concrete Piles	L.F.	806 *	936 *
Test Pile (Concrete)	Each	1	1



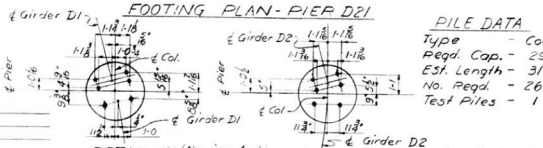




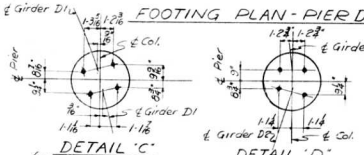




○ indicates battered pile.
◎ indicates Test Pile.



PILE DATA
Type - Concrete
Reqd. Cap. - 29 T
Est. Length - 31-0
No. Reqd. - 26 *
Test Piles - 1



PILE DATA
Type - Concrete
Reqd. Cap. - 31 T
Est. Length - 36-0
No. Reqd. - 26 *
Test Pile - 1

* Does not include Test Pile.

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

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

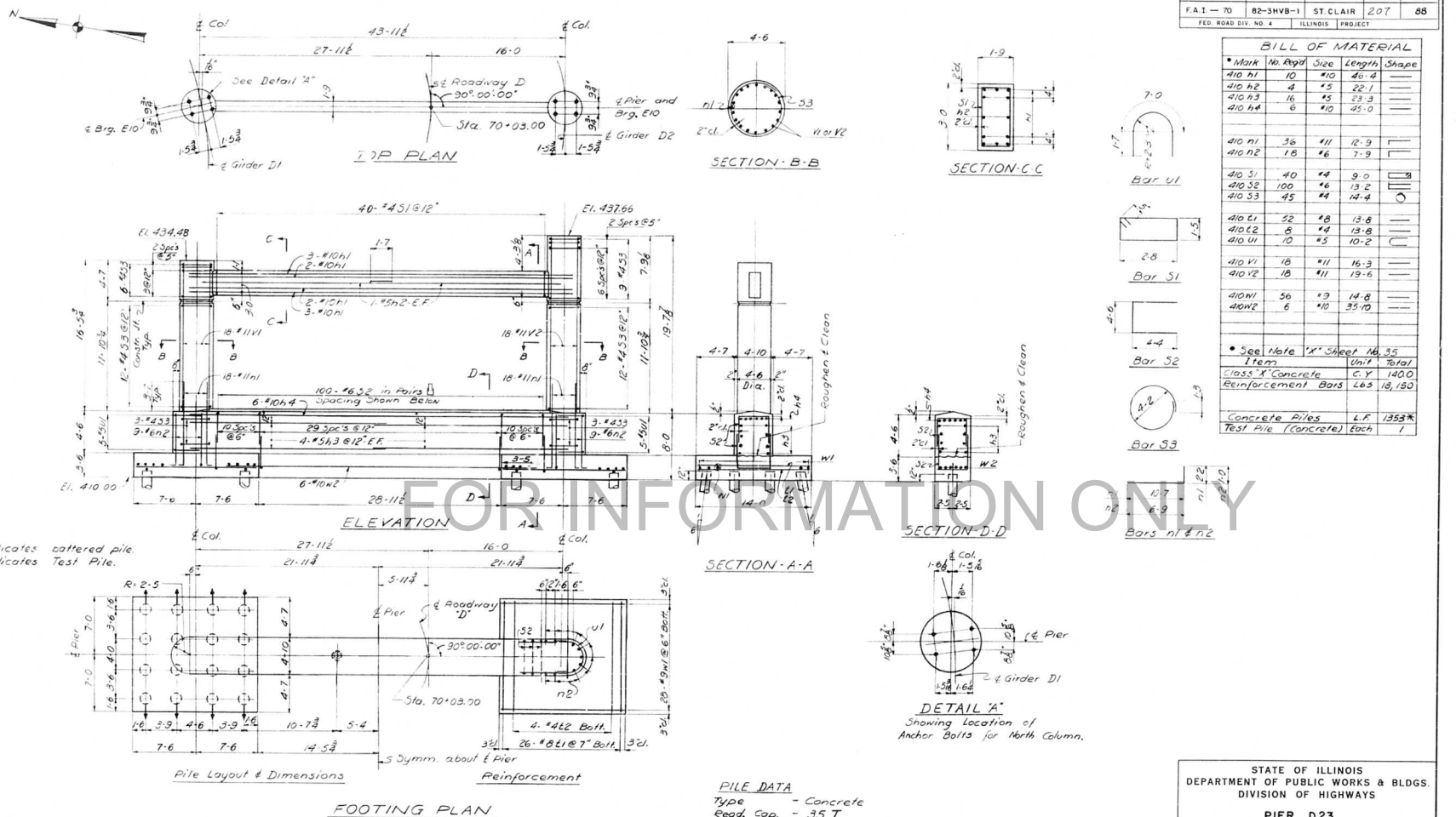
PIERS D21 AND D22

POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

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

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

SHEET 409 OF 526



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. — 70	82-3HVB-1	ST. CLAIR	207	88
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

• Mark	No. Reqd	Size	Length	Shape
410 h1	10	#10	46-4	—
410 h2	4	#5	22-1	—
410 h3	16	#5	23-3	—
410 h4	6	#10	45-0	—
410 n1	36	#11	12-9	⌐
410 n2	18	#6	7-9	⌐
410 S1	40	#4	9-0	⌐
410 S2	100	#6	13-2	⌐
410 S3	45	#4	14-4	⌐
410 t1	52	#8	13-8	—
410 t2	6	#4	13-8	—
410 U1	10	#5	10-2	⊓
410 V1	18	#11	16-3	—
410 V2	18	#11	19-6	—
410 W1	56	#3	14-8	—
410 W2	6	#10	35-10	—

• See Note 'X' Sheet No. 35

Item	Unit	Total
Class 'X' Concrete	C.Y.	1400
Reinforcement Bars	Lbs	18,150
Concrete Piles	L.F.	1353*
Test Pile (Concrete)	Each	1

PILE DATA
Type - Concrete
Reqd. Cap. - 35 T
Est. Length - 41-0
No. Reqd. - 33 *
Test Piles - 1

* Does not include Test Pile.

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

PIER D23

POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

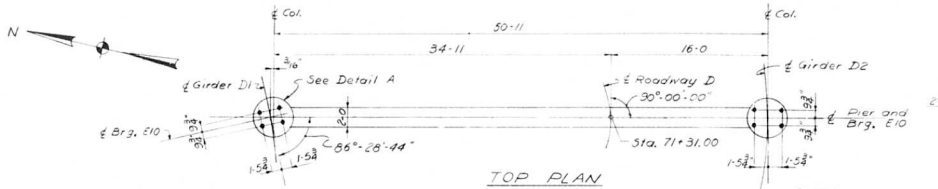
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-1

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

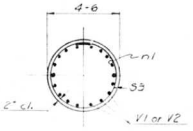
SHEET 410 OF 526

ED BY E.H.
I BY P.E.A.
ED BY E.H.
VED BY K.A.

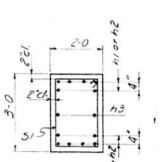
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. — 70	82-3HVB-1	ST. CLAIR	207	89
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



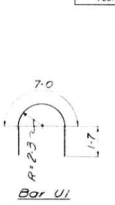
TOP PLAN

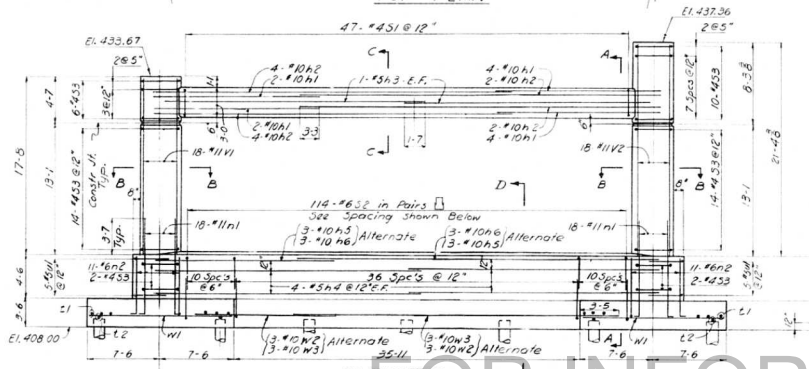


SECTION 11-B-B

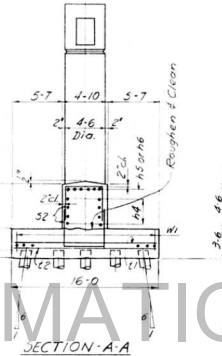


SECTION-C-C

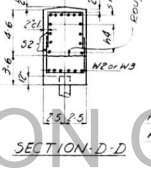




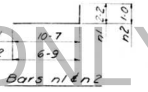
ELEVATION

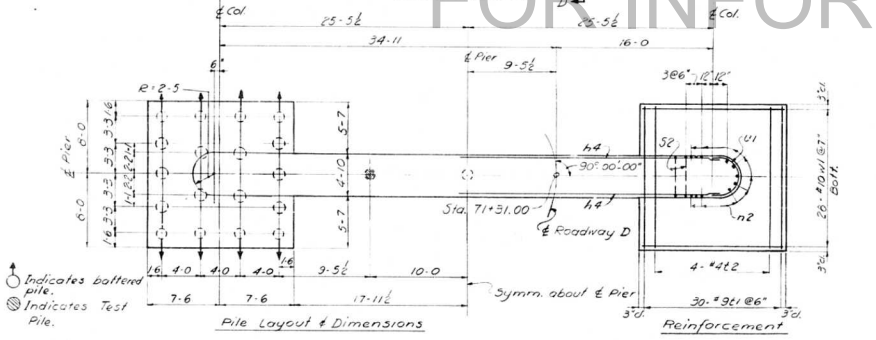


SECTION-A-A

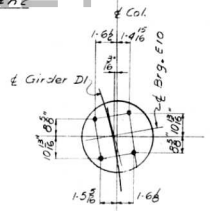


SECTION-D-D





FOOTING PLAN



DETAIL A
Showing location of Anchor Bolts.

BILL OF MATERIAL

* Mark	No Reqd	Size	Length	Shape
411 h1	12	#10	18-11	
411 h2	12	#10	37-8	
411 h3	4	#5	25-6	
411 h4	16	#5	26-9	
411 h5	6	#10	18-3	
411 h6	6	#10	37-0	
411 n1	36	#11	12-9	
411 n2	22	#6	7-9	
411 S1	47	#4	9-6	
411 S2	114	#6	13-2	
411 S3	48	#4	14-4	
411 t1	60	#9	15-8	
411 t2	8	#4	15-8	
411 U1	10	#5	15-2	
411 V1	18	#11	17-6	
411 V2	18	#11	21-2	
411 W1	56	#10	14-8	
411 W2	6	#11	13-8	
411 W3	6	#11	32-5	

* See Note "X" Sheet No 35.

Item	Unit	Total
Class 'X' Concrete	C.Y.	161.9
Reinforcement Bars	Lbs	22,700
Concrete Piles	L.F.	1178*
Test Pile (Concrete)	Each	1

PILE DATA

Type	- Concrete
Reqd. Cap.	- 36 T
Est. Length	- 31-0
No. Reqd.	- 38 *
Test Pile	- 1

* Does not include Test Pile.

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

PIER D24

POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

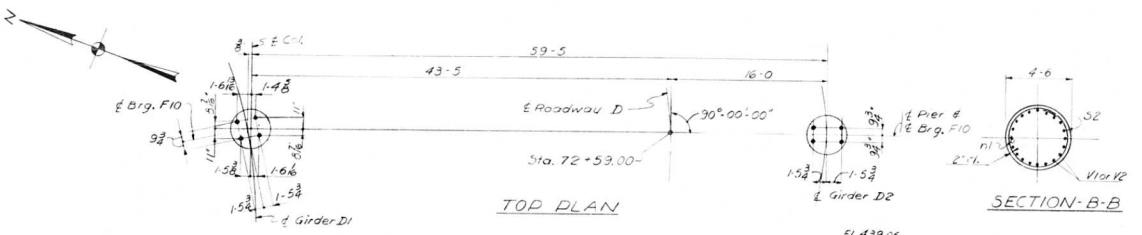
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-1

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

SHEET 411 of 526

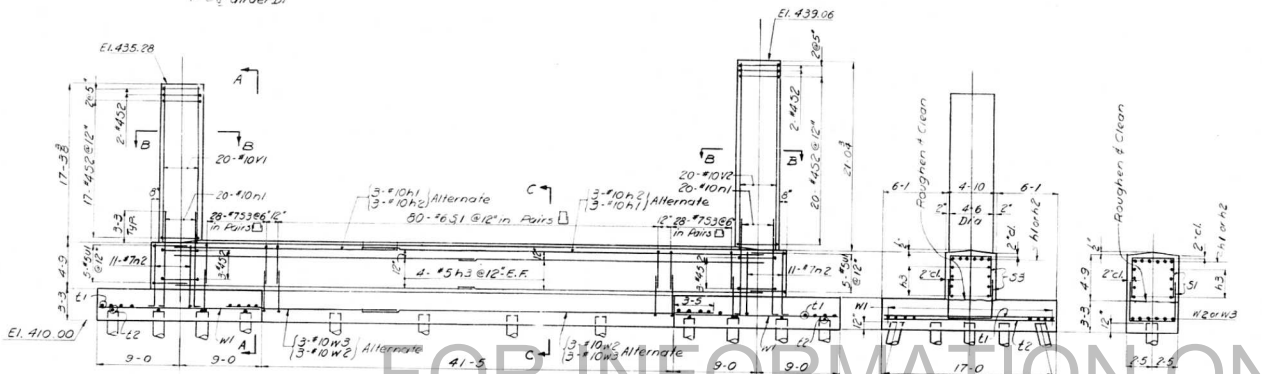
E.A.
P.Z.A.
E.W.
K.A.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. — 70	82—3HVB-1	ST. CLAIR	207	90
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



TOP PLAN

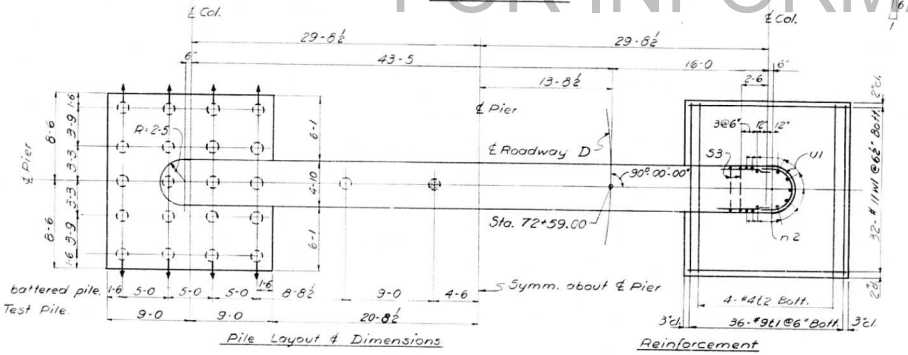
SECTION-B-B



ELEVATION

SECTION-A-A

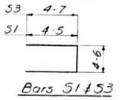
SECTION-C-C



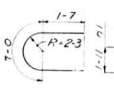
Pile Layout & Dimensions

Reinforcement

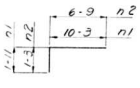
Bar S2



Bars S1 & S3



Bar U1



Bars n1 & n2

BILL OF MATERIAL

*Mark	No. Reqd.	Size	Length	Shape
412h1	6	#10	41-0	—
412h2	6	#10	22-9	—
412h3	16	#5	31-0	—
412n1	40	#10	12-2	⌐
412n2	22	#7	8-0	⌐
4231	80	#6	13-4	⌐
4232	47	#9	14-4	O
4233	56	#7	13-8	⌐
412t1	72	#9	16-8	—
412t2	8	#9	16-8	—
412U1	10	#5	10-2	⌒
412V1	20	#10	17-1	—
412V2	20	#10	20-11	—
412W1	64	#11	17-8	—
412W2	6	#10	35-0	—
412W3	6	#10	16-8	—

*See Note "X" Sheet N235

Item	Unit	Total
Class "X" Concrete	C.Y.	173.8
Reinforcement Bars	Lbs.	23,120
Concrete Piles	L.F.	1806*
Test Pile (Concrete)	Each	1

PILE DATA

Type - Concrete
Regd. Cap. - 37 T
Est. Length - 42-0
No. Regd. - 43*
Test Pile - 1

*Does not include Test Pile

DESIGNED BY E.W.
DRAWN BY R.E.A.
CHECKED BY E.W.
APPROVED BY K.A.

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

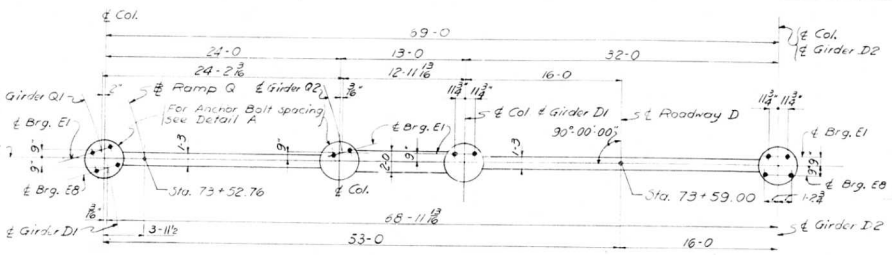
PIER D25

POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

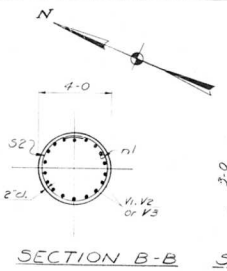
F.A.I. RT. 70 ST. CLAIR CO SECTION 82—3HVB-1

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

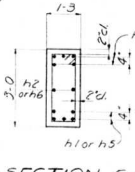
SHEET 412 of 526



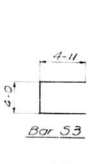
TOP PLAN

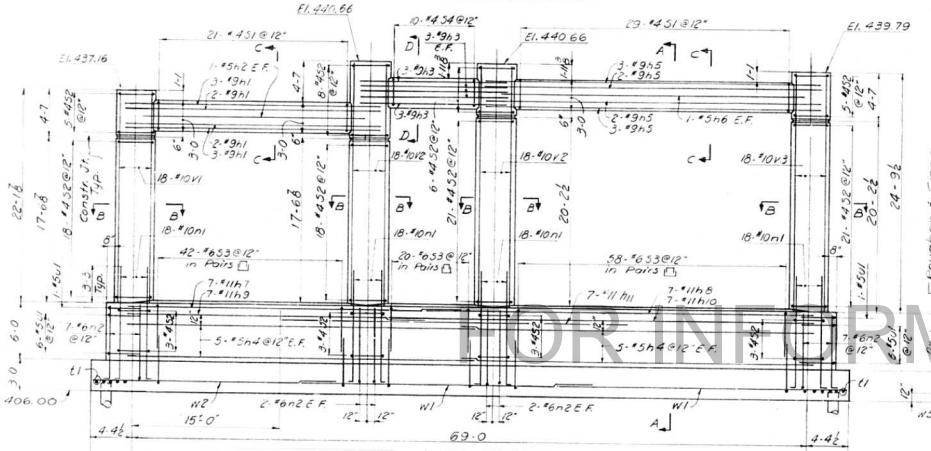


SECTION B-B

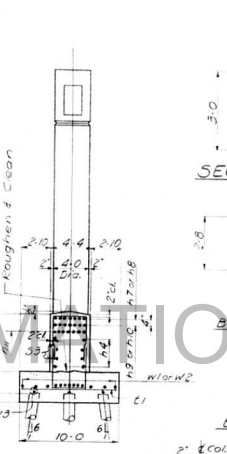


SECTION C-C

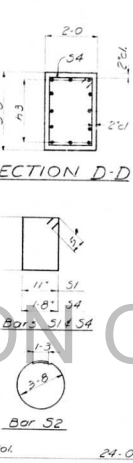




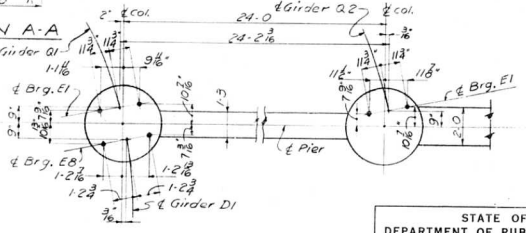
ELEVATION



SECTION A-A



SECTION D-D



DETAIL A
Showing location of Anchor Bolts.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-1	ST. CLAIR	207	91
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

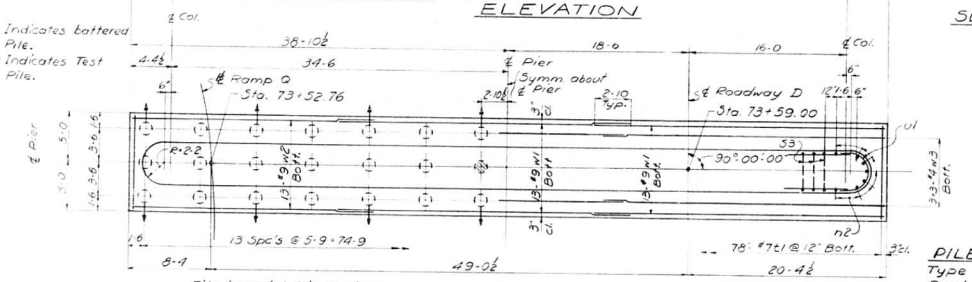
BILL OF MATERIAL

• Mark	No. Reqd.	Size	Length	Shape
413 h1	10	#9	26-4	
413 h2	2	#5	22-6	
413 h3	12	#9	15-4	
413 h4	20	#5	35-10	
413 h5	10	#9	34-4	
413 h6	2	#5	30-6	
413 h7	7	#11	34-7	
413 h8	7	#11	39-0	
413 h9	7	#11	30-6	
413 h10	7	#11	43-1	
413 h11	7	#11	37-0"	
413 n1	72	#10	13-2	
413 n2	22	#6	8-9	
413 S1	50	#4	8-0	
413 S2	114	#4	12-9	
413 S3	120	#6	13-10	
413 S4	10	#4	9-6	
413 t1	78	#7	9-8	
413 U1	14	#5	9-5	
413 v1	16	#10	22-0	
413 v2	36	#10	25-6	
413 v3	18	#10	24-7	
413 w1	26	#9	30-0	
413 w2	13	#9	23-1	
413 w3	3	#4	26-8	

• See Note 'x' Sheet No. 35.

Item	Unit	Total
Class "X" Concrete	C.Y.	210.5
Reinforcement Bars	Lbs	31,620
Concrete Piles	L.F.	11-28 *
Test Pile (Concrete)	Each	1

Indicates battered Pile.
Indicates Test Pile.



Pile Layout & Dimensions — FOOTING PLAN — Reinforcement

PILE DATA

Type	- Concrete
Reqd. Cap.	- 20 T.
Est. Length	- 28-0
No. Reqd.	- 41 *
Test Pile	- 1

* Does not include Test Pile

SIGNED BY E.W.
DRAWN BY R.C.A.
CHECKED BY E.W.
APPROVED BY K.A.

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

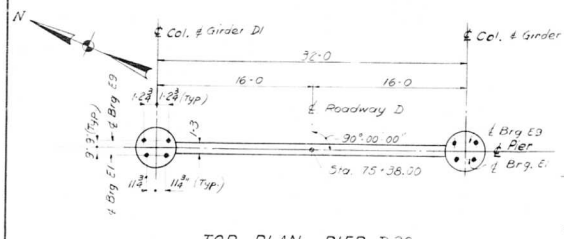
PIER D26

POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

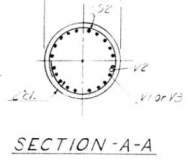
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-1

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

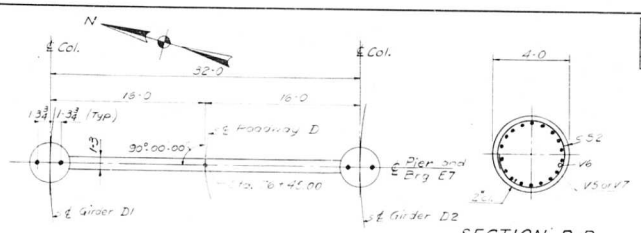
SHEET 413 OF 526



TOP PLAN - PIER D28

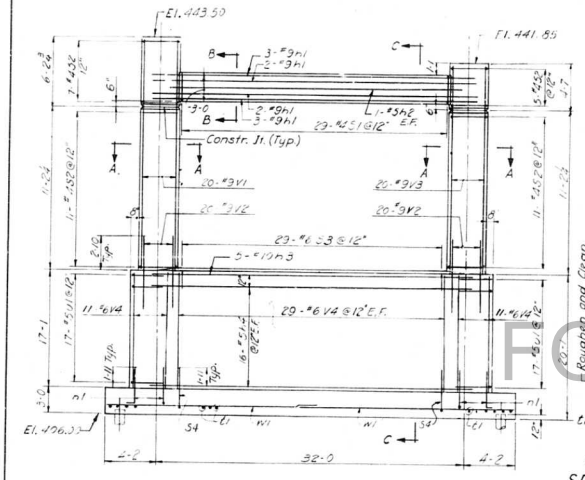


SECTION - A-A

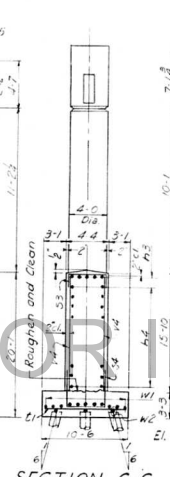


TOP PLAN - PIER D29

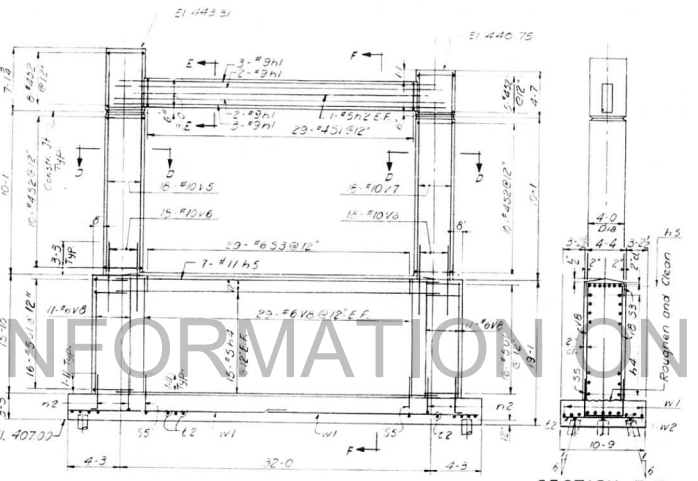
SECTION D-D



ELEVATION - PIER D28

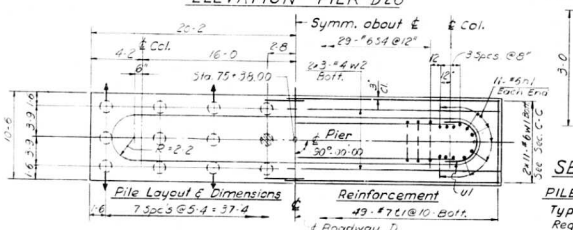


SECTION C-C

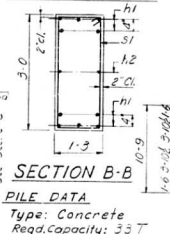


ELEVATION - PIER D29

SECTION F-F

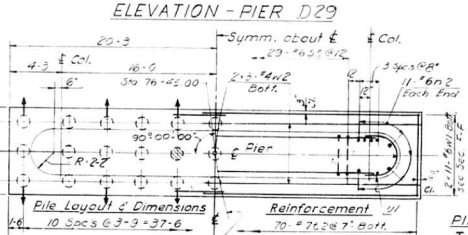


FOOTING PLAN - PIER D28

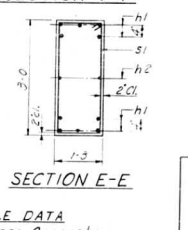


SECTION B-B

PILE DATA
Type: Concrete
Reqd. Capacity: 33 T
Est Length: 38'-0
No. Reqd.: 23*
Test Pile: 1
*Does not include Test Pile.



FOOTING PLAN - PIER D29



SECTION E-E

PILE DATA
Type: Concrete
Reqd. Capacity: 35 T
Est Length: 51'-0
No. Reqd.: 32*
Test Pile: 1
*Does not include Test Pile.

DESIGNED BY E.W.
DRAWN BY P.Z.A.
CHECKED BY E.W.
APPROVED BY K.A.

Indicates battered pile.
Indicates Test Pile.

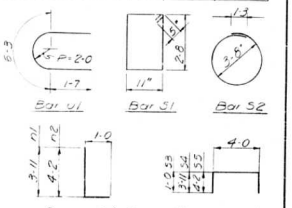
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82-3HVB-1	ST. CLAIR	207	92
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

*Mark	No. Reqd. Pier D28	No. Reqd. Pier D29	Size	Length	Shape
414 h1	10	10	#9	34'-4	
414 h2	-	2	#5	30'-6	
414 h3	5	-	#10	33'-0	
414 h4	32	30	#5	33'-0	
414 h5	-	7	#11	33'-0	
414 n1	22	-	#6	4'-11	
414 n2	-	22	#6	5'-2	
414 S1	29	29	#4	8'-0	9
414 S2	34	33	#4	12'-9	
414 S3	24	29	#6	6'-0	
414 S4	29	-	#6	11'-10	
414 S5	-	29	#6	12'-4	
414 S1	43	-	#7	8'-8	
414 S2	-	70	#7	10'-5	
414 V1	20	-	#9	17'-3	
414 V2	40	-	#9	6'-8	
414 V3	20	-	#9	15'-7	
414 V4	80	-	#6	16'-11	
414 V5	-	18	#10	17'-1	
414 V6	-	36	#10	7'-6	
414 V7	-	18	#10	14'-6	
414 V8	-	80	#6	15'-8	
414 W1	22	22	#6	21'-1	
414 W2	6	6	#4	20'-9	
414 U1	34	32	#5	9'-5	

*See Note "X" Sh. No. 35.

Item	Unit	Total Pier D28	Total Pier D29
Class "X" Concrete	C.Y.	165.5	162.7
Reinforcement Bars	Lbs.	11,730	12,970
Concrete Piles	L.F.	874*	1632*
Test Piles (Concrete)	Ea.	1	1



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

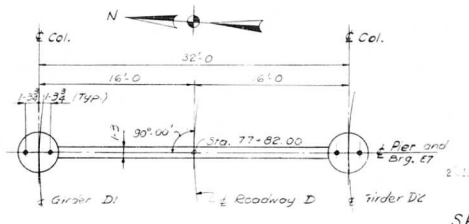
PIERS D28 AND D29

POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

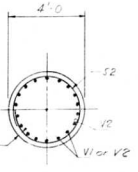
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-1

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

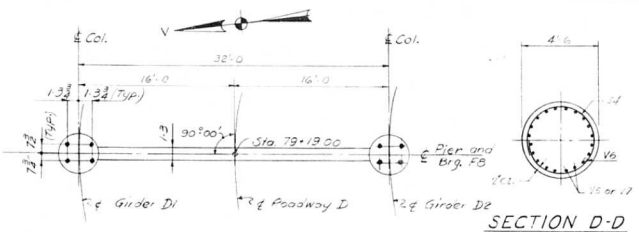
SHEET 214 OF 526



TOP PLAN - PIER D30

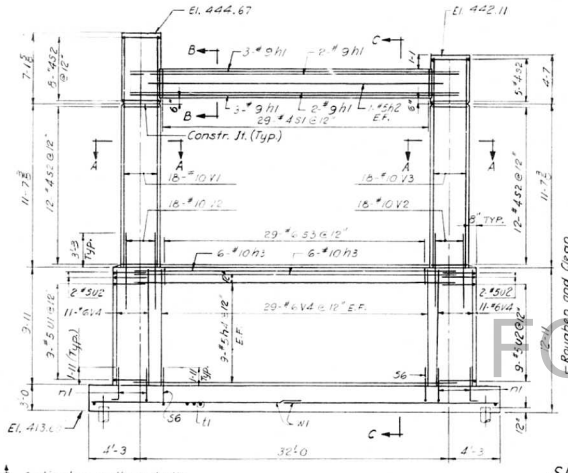


SECTION A-A



TOP PLAN - PIER D31

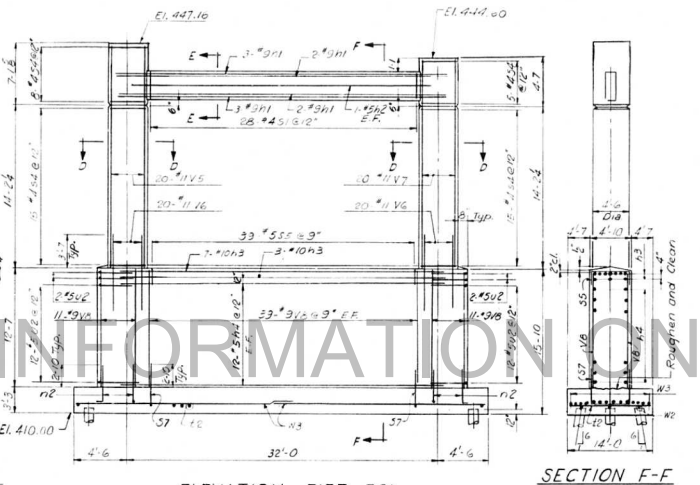
SECTION D-D



Indicates Battered Pile
Indicates Test Pile

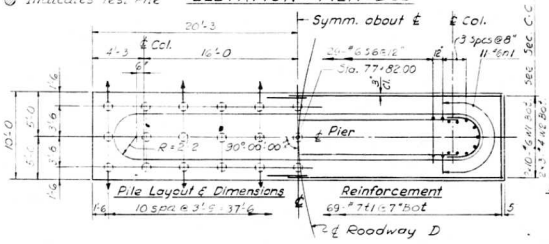
ELEVATION - PIER D30

SECTION C-C

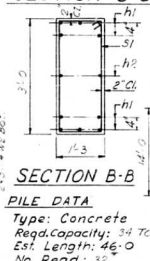


ELEVATION - PIER D31

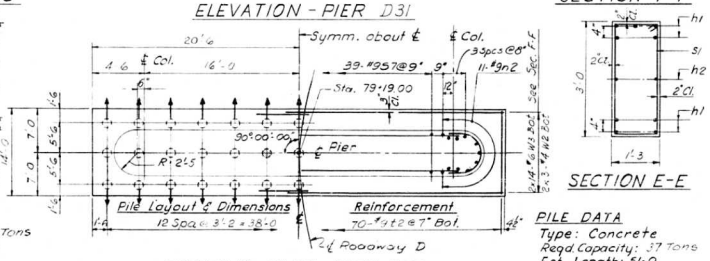
SECTION F-F



FOOTING PLAN - PIER D30



SECTION B-B



FOOTING PLAN - PIER D31

SECTION E-E

PILE DATA
Type: Concrete
Reqd. Capacity: 34 Tons
Est. Length: 46'-0
No. Reqd.: 32
Test Pile: 1
*Does not include Test Pile.

PILE DATA
Type: Concrete
Reqd. Capacity: 37 Tons
Est. Length: 51'-0
No. Reqd.: 38 *
Test Pile: 1
* Does not include Test Pile.

DESIGNED BY E.W.
DRAWN BY A.B.
CHECKED BY E.W.
APPROVED BY K.A.

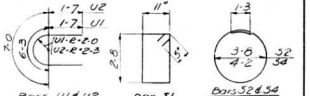
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I—70	82-3HVB-I	ST. CLAIR	207	93
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

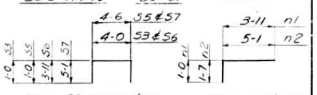
*Mark	No. Reqd. Pier D30	No. Reqd. Pier D31	Size	Length	Shape
415 h1	10	10	# 9	34'-4	
415 h2	2	2	# 5	30'-6	
415 h3	18	10	# 10	33-0	
415 h4	16	24	# 5	33-0	
415 n1	22	-	#6	4-11	
415 n2	-	22	#9	6-8	
415 S1	29	28	# 4	8'-0	
415 S2	37	-	# 4	18'-9	
415 S3	29	-	# 6	6'-0	
415 S4	-	43	# 4	14'-4	
415 S5	-	39	# 5	6-6	
415 S6	29	-	# 6	11'-0	
415 S7	-	33	# 9	14-8	
415 t1	69	-	# 7	3-8	
415 t2	-	70	# 9	13-8	
415 U1	22	-	# 5	9'-5	
415 U2	-	28	# 5	10'-2	
415 V1	18	-	# 10	18'-7	
415 V2	36	-	# 10	7-6	
415 V3	18	-	# 10	16'-0	
415 V4	80	-	# 6	3'-9	
415 V5	-	20	# 11	21'-2	
415 V6	-	40	# 11	9-2	
415 V7	-	20	# 11	18'-7	
415 V8	-	100	# 8	12'-5	
415 W1	20	-	# 6	21'-1	
415 W2	6	6	# 4	21'-0	
415 W3	-	28	# 6	21'-4	

* See Note "X" Sh. No. 35.

Item	Unit	Total Pier D30	Total Pier D31
Class "X" Concrete	C.Y.	122.2	178.4
Reinforcement Bars	Lbs.	12,270	20,770
Concrete Piles	L.F.	1472*	1938*
Test Piles (Concrete)	Ea.	1	1



Bars U1 & U2 Bar S1 Bars S2 & S4



Bars S3, S5, S6 & S7 Bars n1 & n2

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

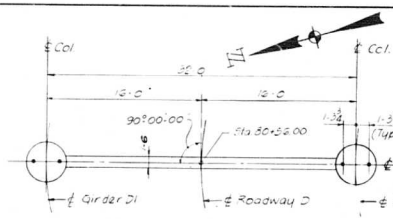
PIERS D30 AND D31

POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

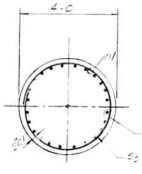
F.A.I RT. 70 ST. CLAIR CO. SECTION 82-3HVB-I

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

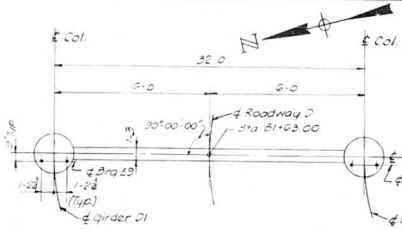
SHEET 415 OF 536



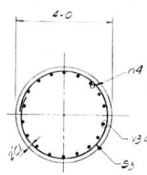
TOP PLAN - PIER D32



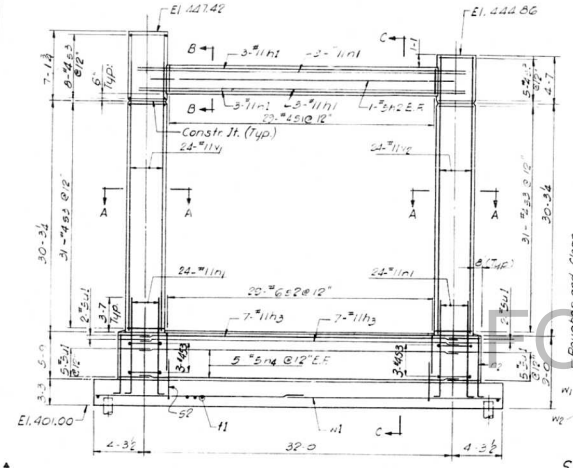
SECTION A-A



TOP PLAN - PIER D33

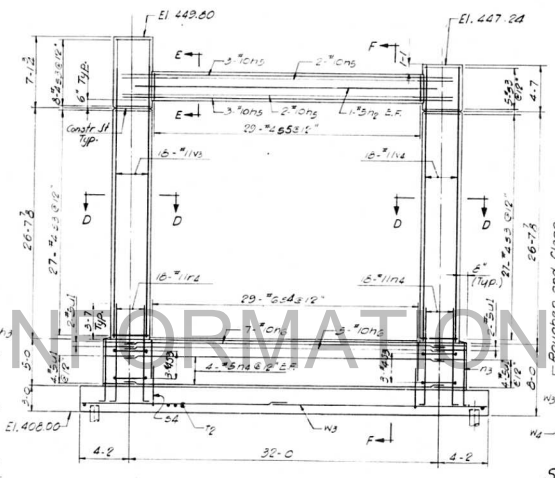


SECTION D-D

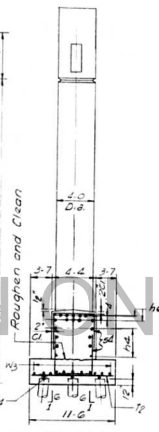


ELEVATION - PIER D32

SECTION C-C

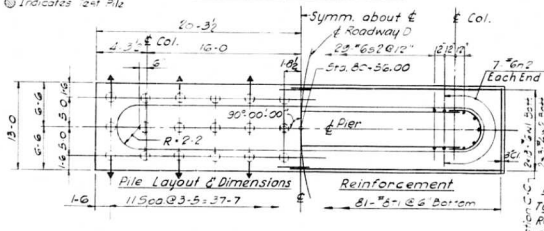


ELEVATION - PIER D33

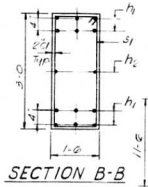


SECTION F-F

Indicates Batter of 1/12
Indicates "Zat" Pile



FOOTING PLAN - PIER D32

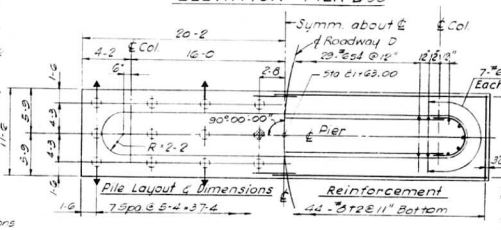


SECTION B-B

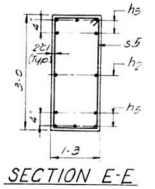
PILE DATA

Type: Concrete	
Reqd. Capacity:	34 Tons
Est. Length:	36'-0
No. Reqd:	25 *
Test Pile	1

* Does not include Test Pile



FOOTING PLAN - PIER D33



SECTION E-E

PILE DATA

Type: Concrete	
Reqd. Capacity:	32 Tons
Est. Length:	47'-0
No. Reqd.:	23 *
Test Pile:	1

* Does not include Test Pile

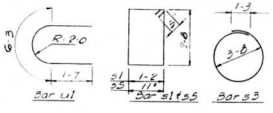
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-1	ST. CLAIR	207	94
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

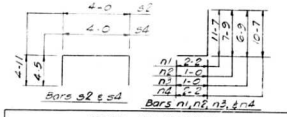
BILL OF MATERIAL

*Mark	No. Reqd. Pier D32	No. Reqd. Pier D33	Size	Length	Shape
416 h1	12	-	#11	34-4	
416 h2	2	2	#8	30-6	
416 h3	14	-	#11	38-0	
416 h4	10	6	#8	33-0	
416 h5	-	10	#10	34-4	
416 h6	-	12	#10	33-0	
416 n1	48	-	#11	13-9	
416 n2	14	-	#6	8-9	
416 n3	-	14	#6	7-9	
416 n4	-	26	#11	12-9	
416 S1	29	-	#6	8-6	
416 S2	58	-	#6	13-10	
416 S3	81	73	#6	2-9	
416 S4	-	58	#6	12-10	
416 S5	-	29	#6	8-0	
416 t1	81	-	#6	12-8	
416 t2	-	44	#6	11-8	
416 u1	14	2	#5	9-5	
416 V1	24	-	#11	37-3	
416 V2	24	-	#11	34-8	
416 V3	-	18	#11	33-7	
416 V4	-	18	#11	30-1	
416 W1	26	-	#6	21-1	
416 W2	6	-	#6	20-8	
416 W3	-	22	#6	21-0	
416 W4	-	6	#6	20-7	

*See Note "K" Sh. No. 35.

Item	Unit	Total Pier D32	Total Pier D33
Class "A" Concrete	C.Y.	133.7	114.3
Reinforcement Bars	Lbs.	23,750	16,310
Concrete Piles	L.F.	1260 *	1081 *
Test Piles (concrete)	Ea.	1	1





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

PIERS D32 AND D33

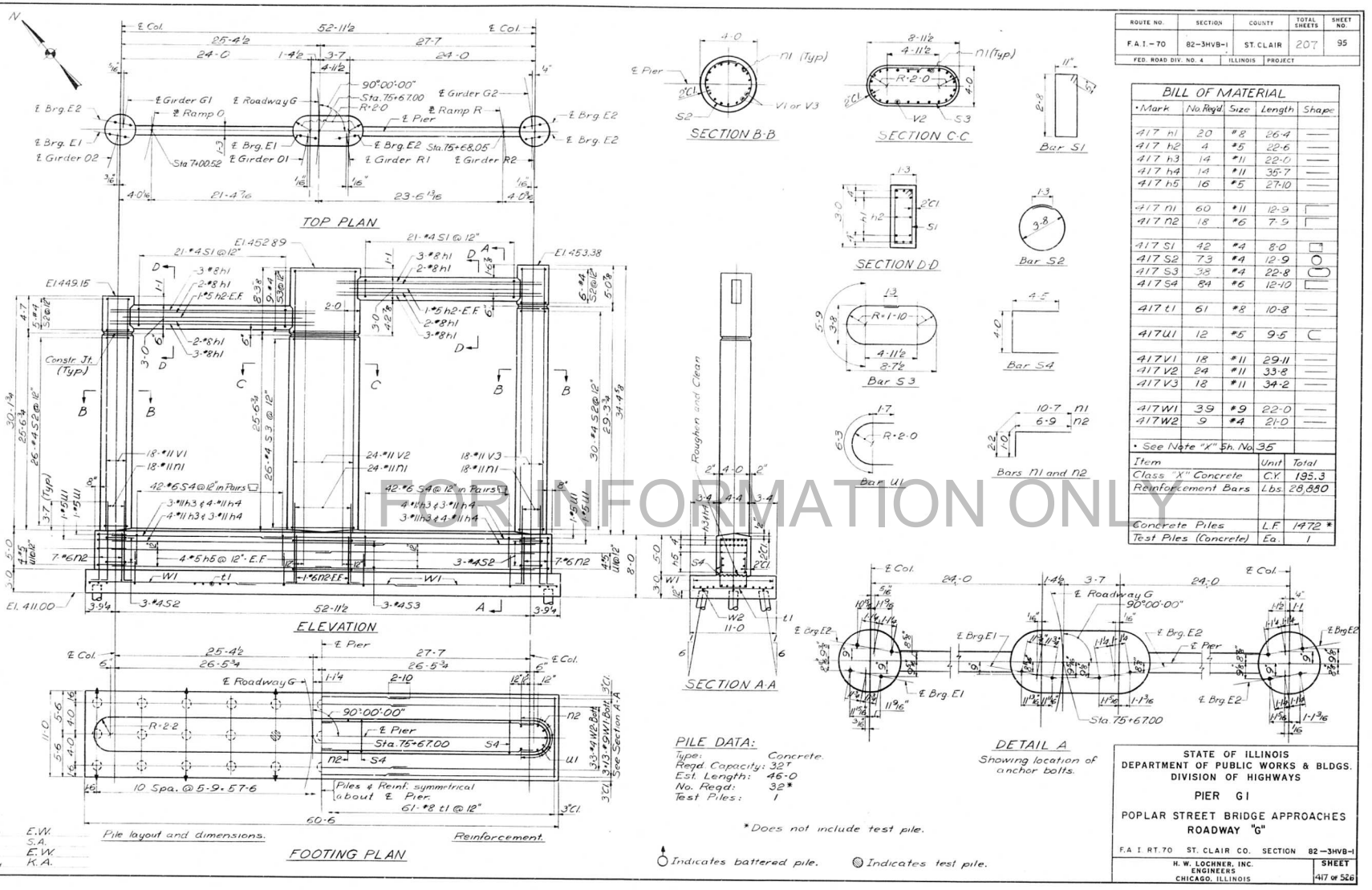
POPLAR STREET BRIDGE APPROACHES
ROADWAY "D"

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

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

SHEET 416 OF 526

DESIGNED BY E.W.
DRAWN BY V.T.
CHECKED BY E.W.
APPROVED BY K.A.



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-1	ST. CLAIR	207	95
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

Mark	No. Reqd.	Size	Length	Shape
417 n1	20	#8	26-4	—
417 n2	4	#5	22-6	—
417 h3	14	#11	22-0	—
417 h4	14	#11	35-7	—
417 h5	16	#5	27-10	—
417 n1	60	#11	12-9	⌐
417 n2	18	#6	7-5	⌐
417 S1	42	#4	8-0	□
417 S2	73	#4	12-9	○
417 S3	38	#4	22-8	⊂
417 S4	84	#6	12-10	⌐
417 t1	61	#8	10-8	—
417 U1	12	#5	9-5	⊂
417 V1	18	#11	29-11	—
417 V2	24	#11	33-8	—
417 V3	18	#11	34-2	—
417 W1	39	#9	22-0	—
417 W2	9	#4	21-0	—
• See Note "X" Sh. No. 35				

Item	Unit	Total
Class "X" Concrete	C.Y.	195.3
Reinforcement Bars	Lbs.	28,880
Concrete Piles	L.F.	1472 *
Test Piles (Concrete)	Ea.	1

PILE DATA:

Type: Concrete.
Reqd. Capacity: 32T
Est. Length: 46-0
No. Reqd: 32*
Test Piles: 1

*Does not include test pile.

DESIGNED BY E.W.
DRAWN BY S.A.
CHECKED BY E.W.
APPROVED BY K.A.

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

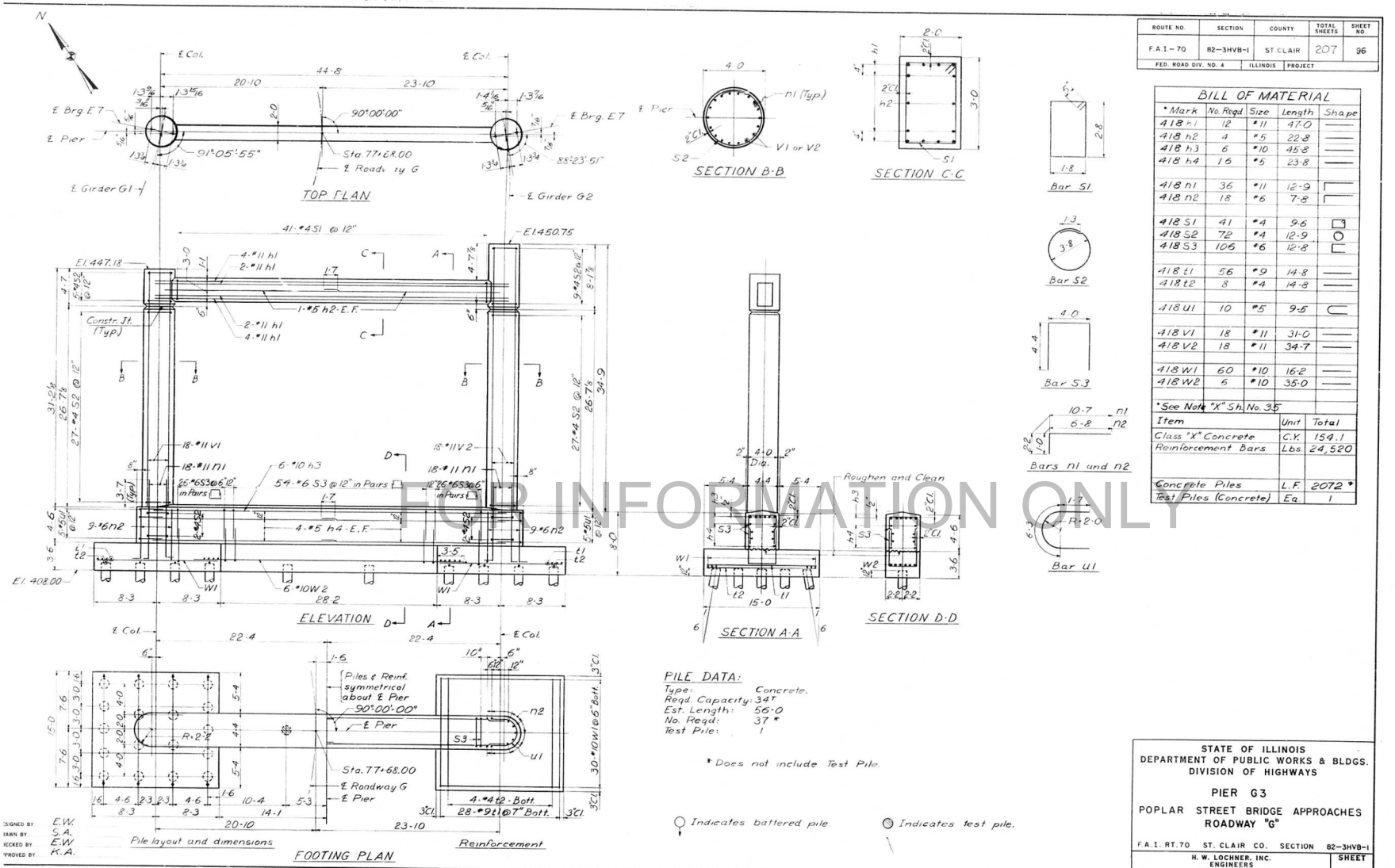
PIER G1

POPLAR STREET BRIDGE APPROACHES
ROADWAY "G"

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

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

SHEET
417 OF 526



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-1	ST. CLAIR	207	96
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

*Mark	No. Reqd	Size	Length	Shape
418 h1	12	#11	47-0	
418 h2	4	#5	22-8	
418 h3	6	#10	45-8	
418 h4	16	#5	23-8	
418 n1	36	#11	12-9	
418 n2	18	#6	7-8	
418 S1	41	#4	9-6	
418 S2	72	#4	12-9	
418 S3	106	#6	12-8	
418 t1	56	#9	14-8	
418 t2	8	#4	14-8	
418 U1	10	#5	9-5	
418 V1	18	#11	31-0	
418 V2	18	#11	34-7	
418 W1	60	#10	16-2	
418 W2	6	#10	35-0	

*See Note "X" Sh. No. 35

Item	Unit	Total
Class "X" Concrete	C.Y.	154.1
Reinforcement Bars	Lbs.	24,520
Concrete Piles	L.F.	2072 *
Test Piles (Concrete)	Ea.	1

PILE DATA:

Type: Concrete.
Reqd. Capacity: 34T
Est. Length: 56-0
No. Reqd: 37 *
Test Pile: 1

* Does not include Test Pile.

○ Indicates battered pile. ⊗ Indicates test pile.

DESIGNED BY E.W.
DRAWN BY S.A.
CHECKED BY E.W.
APPROVED BY K.A.

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

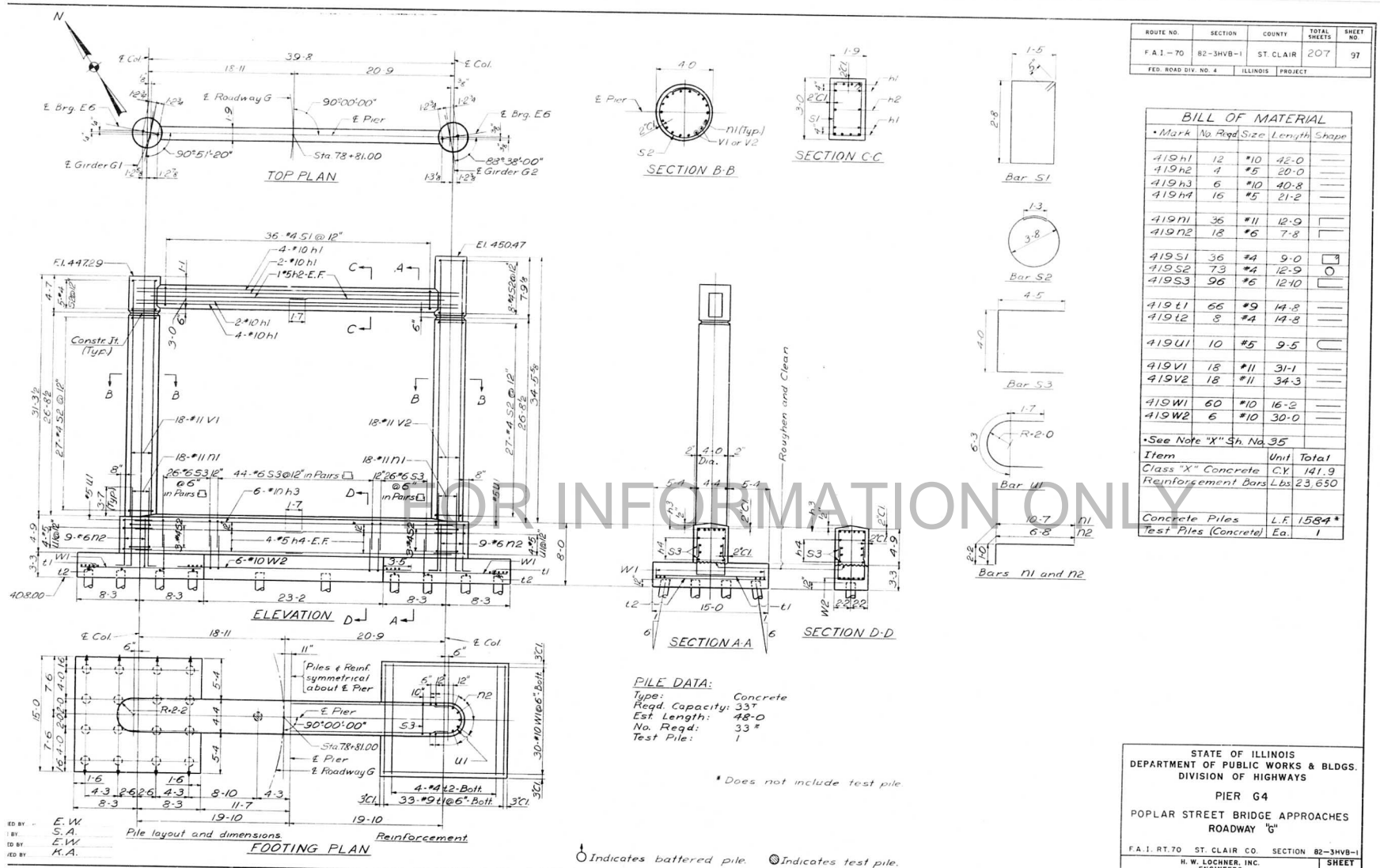
PIER G3

POPLAR STREET BRIDGE APPROACHES
ROADWAY "G"

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

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

SHEET 418 OF 526



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-1	ST. CLAIR	207	97
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

• Mark	No. Reqd.	Size	Length	Shape
419 h1	12	#10	42-0	—
419 h2	4	#5	20-0	—
419 h3	6	#10	40-8	—
419 h4	16	#5	21-2	—
419 n1	36	#11	12-9	⌐
419 n2	18	#6	7-8	⌐
419 S1	36	#4	9-0	□
419 S2	73	#4	12-9	○
419 S3	96	#6	12-10	□
419 t1	66	#9	14-8	—
419 t2	8	#4	14-8	—
419 U1	10	#5	9-5	⊂
419 V1	18	#11	31-1	—
419 V2	18	#11	34-3	—
419 W1	60	#10	16-2	—
419 W2	6	#10	30-0	—

• See Note "X" Sh. No. 35

Item	Unit	Total
Class "X" Concrete	C.Y.	141.9
Reinforcement Bars	Lbs.	23,650
Concrete Piles	L.F.	1584 *
Test Piles (Concrete)	Ea.	1

PILE DATA:

Type:	Concrete
Reqd. Capacity:	33T
Est. Length:	48-0
No. Reqd:	33 *
Test Pile:	1

* Does not include test pile.

○ Indicates battered pile. ⊗ Indicates test pile.

ED BY	E.W.
BY	S.A.
ED BY	E.W.
ED BY	K.A.

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

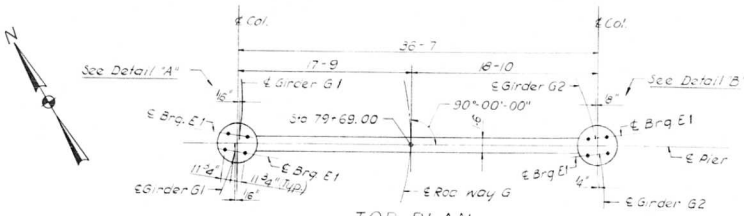
PIER G4

POPLAR STREET BRIDGE APPROACHES
ROADWAY "G"

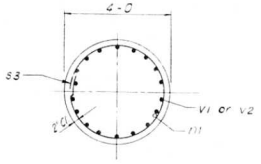
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-1

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

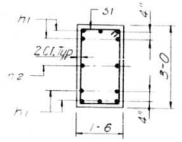
SHEET 419 or 526



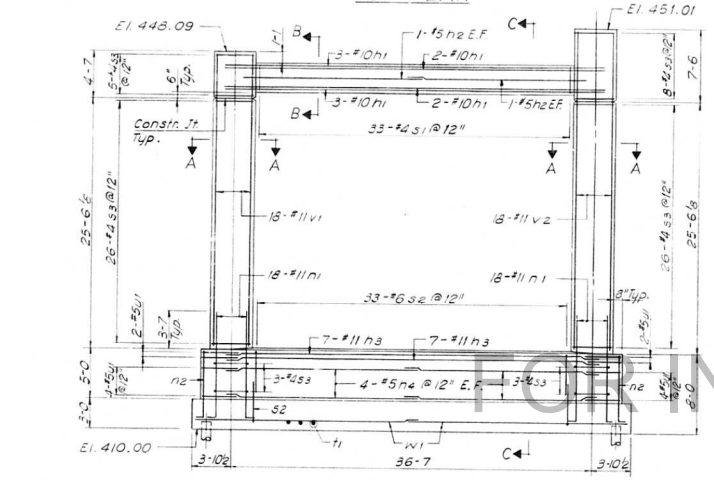
TOP PLAN



SECTION A-A

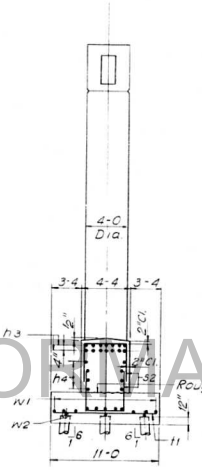


SECTION B-B

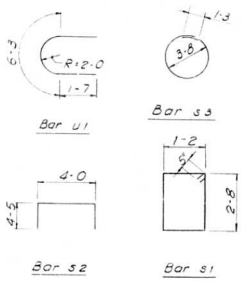


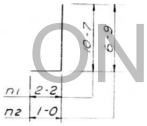
ELEVATION

* Indicates Battered Pile
* Indicates Test Pile

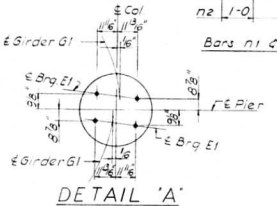


SECTION C-C

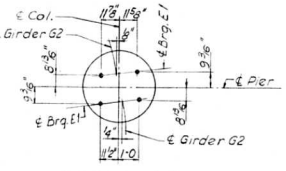




Bars n1 & n2



DETAIL 'A'



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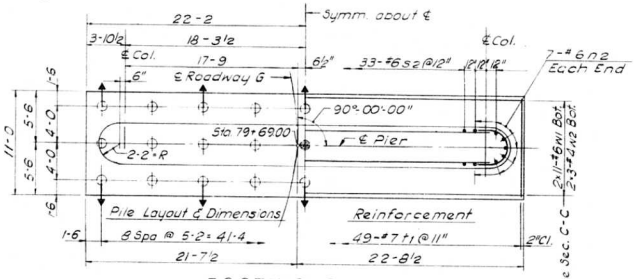


FOOTING PLAN

E.W.
I.M.
E.W.
K.A.

PILE DATA

Type : Concrete
Req'd Capacity : 27 T.
Est. Length 33'-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-1	ST. CLAIR	207	98
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

BILL OF MATERIAL

* Mark	No. Req'd	Size	Length	Shape
420 h1	10	# 10	38 - 11	
420 h2	4	# 5	18 - 4	
420 h3	14	# 11	37 - 7	
420 h4	16	# 5	19 - 7	
420 n1	38	# 11	12 - 9	
420 n2	14	# 6	7 - 9	
420 s1	33	# 4	5 - 6	
420 s2	66	# 6	12 - 10	
420 s3	71	# 4	12 - 9	
420 t1	49	# 7	10 - 8	
420 u1	12	# 5	9 - 5	
420 v1	18	# 11	29 - 11	
420 v2	18	# 11	32 - 10	
420 n1	22	# 6	23 - 0	
420 n2	6	# 4	22 - 8	

* See Note for Sh. No. 35

Item	Unit	Total
Class 'X' Concrete	C.Y.	121.8
Reinforcement Bars	Lbs.	16730
Concrete Piles	L.F.	858 *
Test Piles (Concrete)	Ea.	1

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

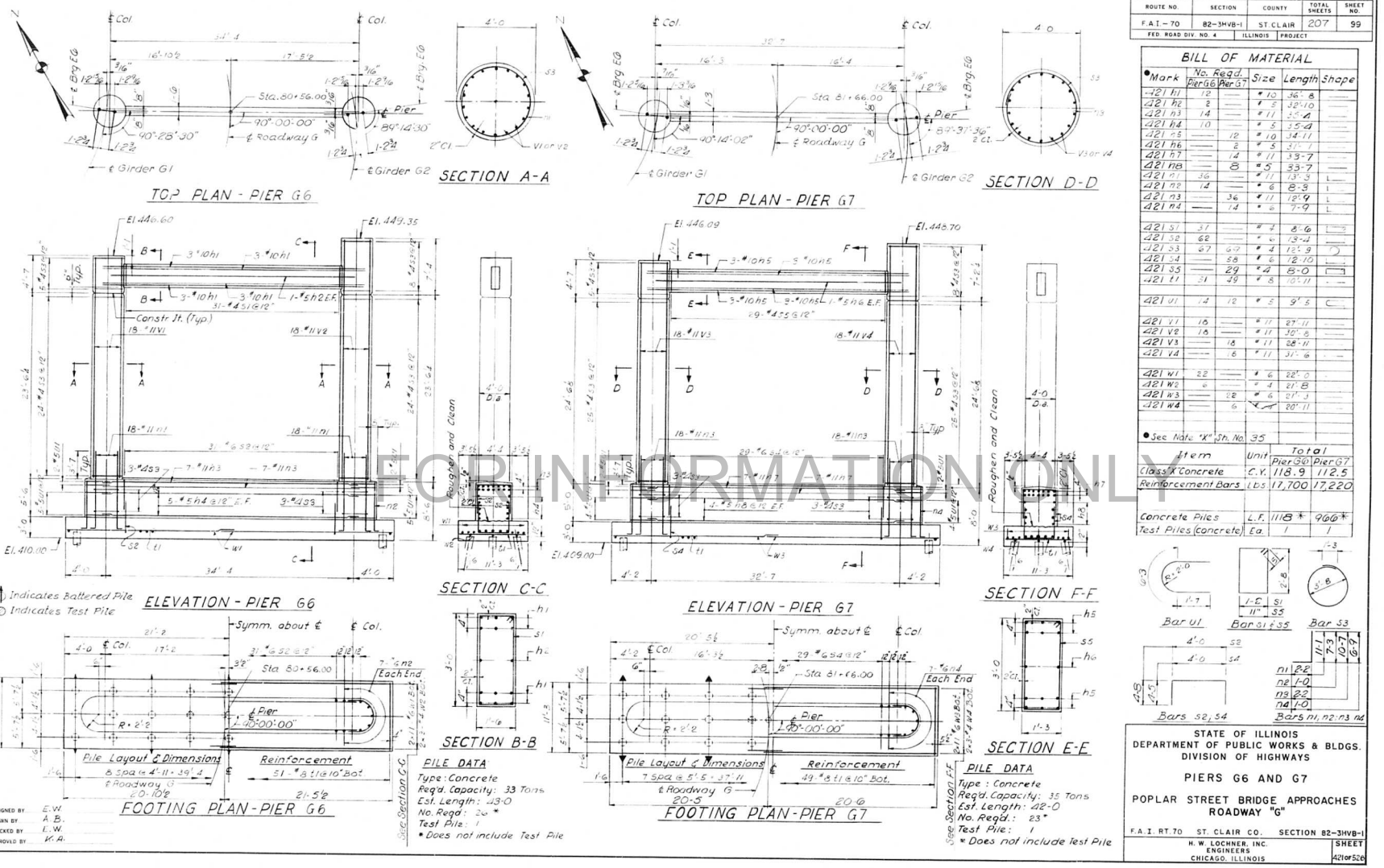
PIER G5

POPLAR STREET BRIDGE APPROACHES
ROADWAY "G"

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

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

SHEET 420 or 526



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-1	ST. CLAIR	207	99
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

• Mark	No. Reqd. Pier G6	No. Reqd. Pier G7	Size	Length	Shape
421 h1	12	—	# 10	36'-8	
421 h2	2	—	# 5	32'-10	
421 h3	14	—	# 11	35'-4	
421 h4	10	—	# 5	35'-4	
421 h5	—	12	# 10	34'-11	
421 h6	—	2	# 5	31'-1	
421 h7	—	14	# 11	33'-7	
421 h8	—	8	# 5	33'-7	
421 n1	36	—	# 11	13'-3	L
421 n2	14	—	# 6	8'-8	L
421 n3	—	36	# 11	12'-9	L
421 n4	—	14	# 6	7'-9	L
421 S1	31	—	# 4	8'-6	
421 S2	62	—	# 6	13'-4	
421 S3	67	69	# 4	12'-9	
421 S4	—	58	# 6	12'-10	
421 S5	—	29	# 4	8'-0	
421 t1	31	29	# 8	10'-11	
421 U1	14	12	# 5	9'-5	
421 V1	16	—	# 11	27'-11	
421 V2	16	—	# 11	10'-8	
421 V3	—	18	# 11	28'-11	
421 V4	—	16	# 11	31'-6	
421 W1	22	—	# 6	22'-0	
421 W2	6	—	# 4	21'-8	
421 W3	—	22	# 6	21'-3	
421 W4	—	6	# 6	20'-11	

• See Note "K" Sh. No. 35

Item	Unit	Total Pier G6	Total Pier G7
Class 'K' Concrete	C.Y.	118.9	112.5
Reinforcement Bars	Lbs	17,700	17,220
Concrete Piles	L.F.	1118 *	966 *
Test Piles (concrete)	Ea.	1	1

DESIGNED BY	E.W.
DRAWN BY	A.B.
CHECKED BY	E.W.
APPROVED BY	W.A.

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

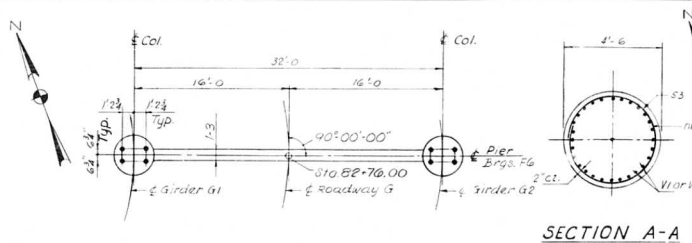
PIERS G6 AND G7

POPLAR STREET BRIDGE APPROACHES
ROADWAY "G"

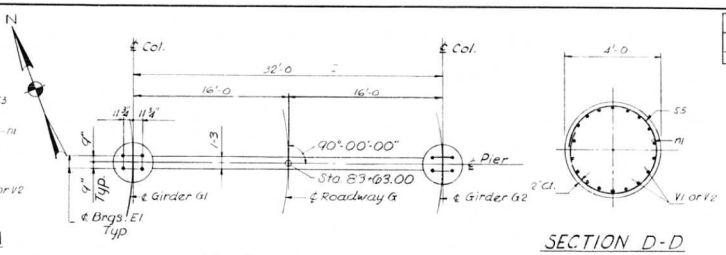
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-1

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

SHEET 421 of 526



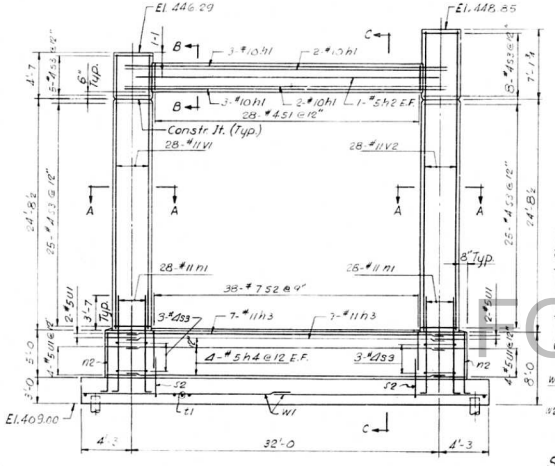
SECTION A-A



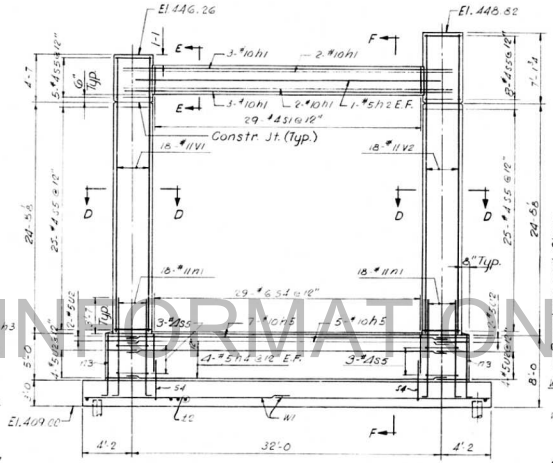
SECTION D-D

TOP PLAN - PIER G8

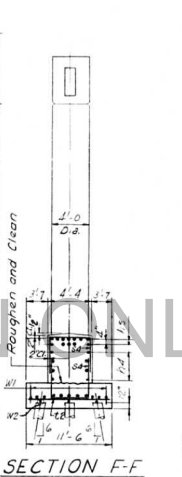
TOP PLAN - PIER G9



SECTION C-C



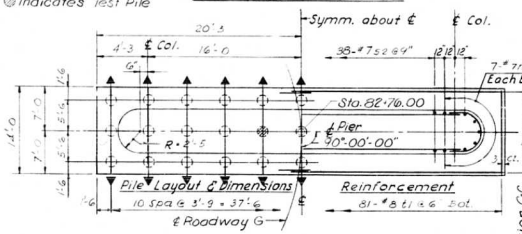
ELEVATION - PIER G9



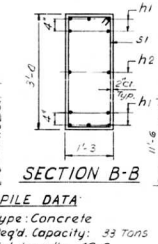
SECTION F-F

▲ Indicates Battered Pile
◎ Indicates Test Pile

ELEVATION - PIER G8

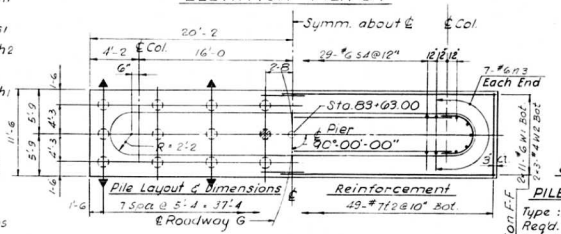


FOOTING PLAN - PIER G8

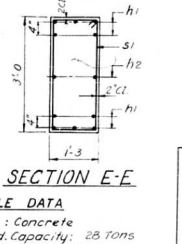


SECTION B-B

See Section CC



FOOTING PLAN - PIER G9



SECTION E-E

See Section FF

DESIGNED BY E.W.
DRAWN BY A.B.
CHECKED BY E.W.
APPROVED BY K.A.

PILE DATA
Type: Concrete
Req'd. Capacity: 33 Tons
Est. Length: 42.0
No. Req'd: 32*
Test Pile: 1
* Does not include Test Pile

PILE DATA
Type: Concrete
Req'd. Capacity: 28 Tons
Est. Length: 39-0
No. Req'd.: 23*
Test Pile: 1
* Does not include Test Pile

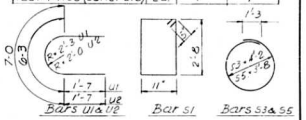
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82-3HVB-1	ST. CLAIR	207	100
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

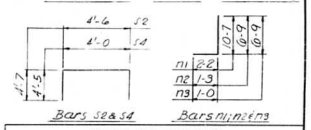
BILL OF MATERIAL

•Mark	No. Req'd. Per G8	No. Req'd. Per G9	Size	Length	Shape
422 H1	10	10	#10	34'-4	
422 H2	2	2	#5	30'-6	
422 H3	14	—	#11	33'-0	
422 H4	8	8	#5	33'-0	
422 H5	—	12	#10	33'-0	
422 N1	56	36	#11	12'-9	L
422 N2	14	—	#7	8'-0	L
422 N3	—	14	#6	7'-9	L
422 S1	28	29	#4	6'-0	
422 S2	76	—	#7	13'-8	
422 S3	39	—	#4	14'-4	
422 S4	—	58	#6	19'-10	
422 S5	—	69	#4	12'-9	
422 T1	81	—	#8	13'-8	
422 T2	—	49	#7	11'-2	
422 U1	12	—	#5	10'-2	
422 U2	—	12	#5	9'-5	
422 V1	28	8	#11	29'-1	
422 V2	28	18	#11	31'-8	
422 W1	28	22	#6	21'-1	
422 W2	6	6	#4	20'-8	

•See Note "X" Sh. No. 35

Item	Unit	Total Pier G8	Total Pier G9
Class "X" Concrete	C.Y.	134.9	112.5
Epoxy Coated Reinforcement Bars	LBS.	24,310	15,810
Concrete Piles	L.F.	1344*	897*
Test Piles (concrete)	Ea.	1	1





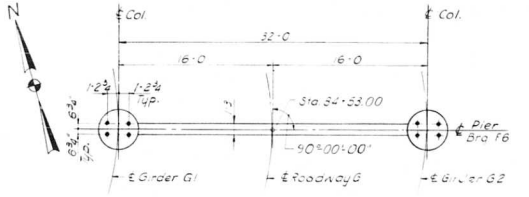
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS

PIERS G8 AND G9
POPLAR STREET BRIDGE APPROACHES
ROADWAY "G"

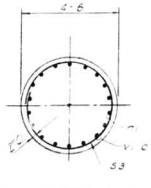
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-1

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

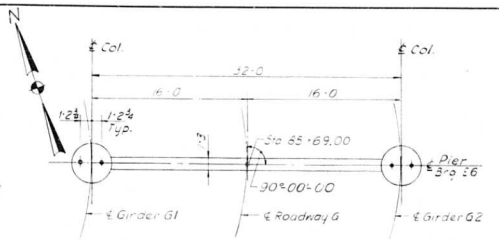
SHEET 422 OF 526



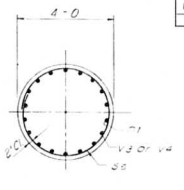
TOP PLAN - PIER G10



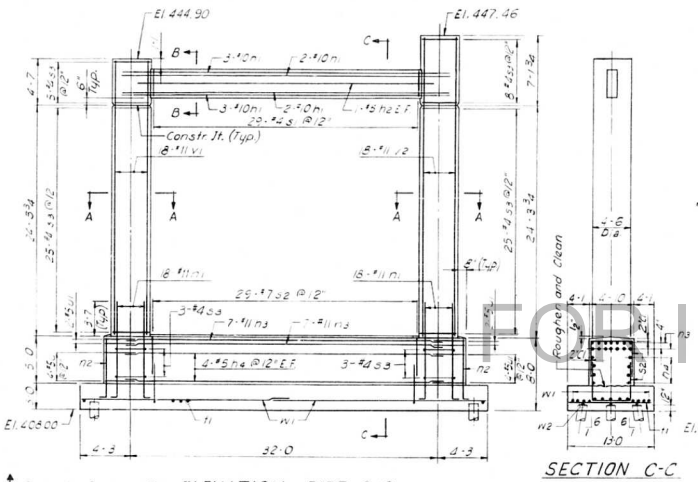
SECTION A-A



TOP PLAN - PIER G11

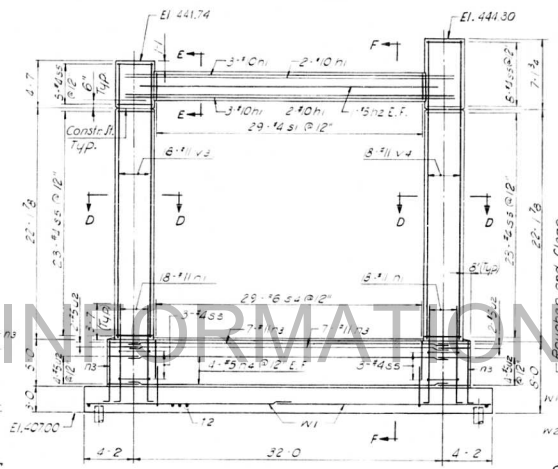


SECTION D-D

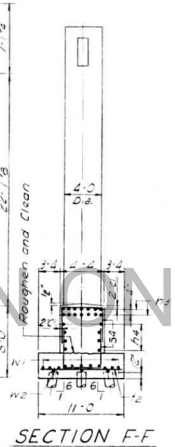


ELEVATION - PIER G10

SECTION C-C

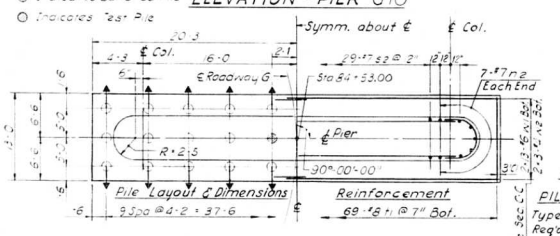


ELEVATION - PIER G11

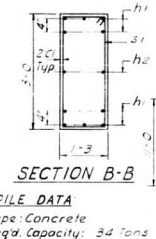


SECTION F-F

▲ Indicates Battered Pile
○ Indicates Test Pile

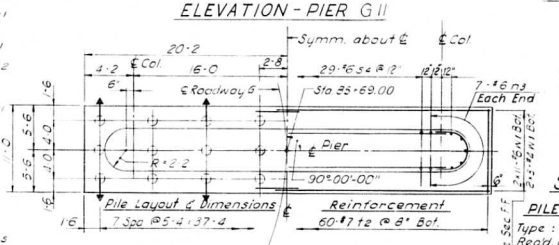


FOOTING PLAN - PIER G10

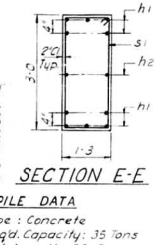


SECTION B-B

PILE DATA
Type: Concrete
Reqd. Capacity: 34 Tons
Est. Length: 49'-0
No. Reqd: 29 *
Test Pile: 1
* Does not include Test Pile



FOOTING PLAN - PIER G11



SECTION E-E

PILE DATA
Type: Concrete
Reqd. Capacity: 35 Tons
Est. Length: 33'-0
No. Reqd.: 29 *
Test Pile: 1
* Does not include Test Pile

DESIGNED BY E.W.
DRAWN BY I.M.
CHECKED BY A.T.
APPROVED BY K.H.

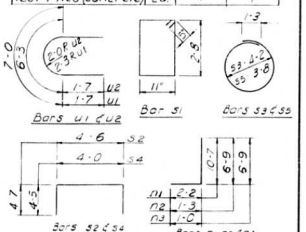
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-1	ST. CLAIR	207	101
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

BILL OF MATERIAL

*Mark	No. Reqd. Pier G10	No. Reqd. Pier G11	Size	Length	Shape
423h1	10	10	#10	34-4	
423h2	2	2	#5	30-6	
423n3	14	14	#11	33-0	
423n4	8	8	#5	33-0	
423n1	36	36	#11	12-9	
423n2	14	-	#7	8-0	
423n3	-	14	#6	7-9	
423s1	29	29	#4	8-0	
423s2	58	-	#7	13-8	
423s3	69	-	#4	14-4	
423s4	-	58	#6	12-10	
423s5	-	65	#4	12-9	
423t1	69	-	#8	12-8	
423t2	-	60	#7	10-6	
423u1	12	-	#5	10-2	
423u2	-	12	#5	9-2	
423v1	18	-	#11	28-9	
423v2	18	-	#11	31-3	
423v3	-	18	#11	26-7	
423v4	-	18	#11	29-1	
w1	26	22	#6	21-1	
w2	6	6	#4	20-9	

*See Note "X" Sh. No.

Item	Unit	Total Pier G10	Total Pier G11
Class 'X' Concrete	C.Y.	130.2	67.9
Reinforcement Bars	Lbs.	18,490	16,230
Concrete Piles	L.F.	1421 *	759 *
Test Piles (Concrete)	Ea.	1	1



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

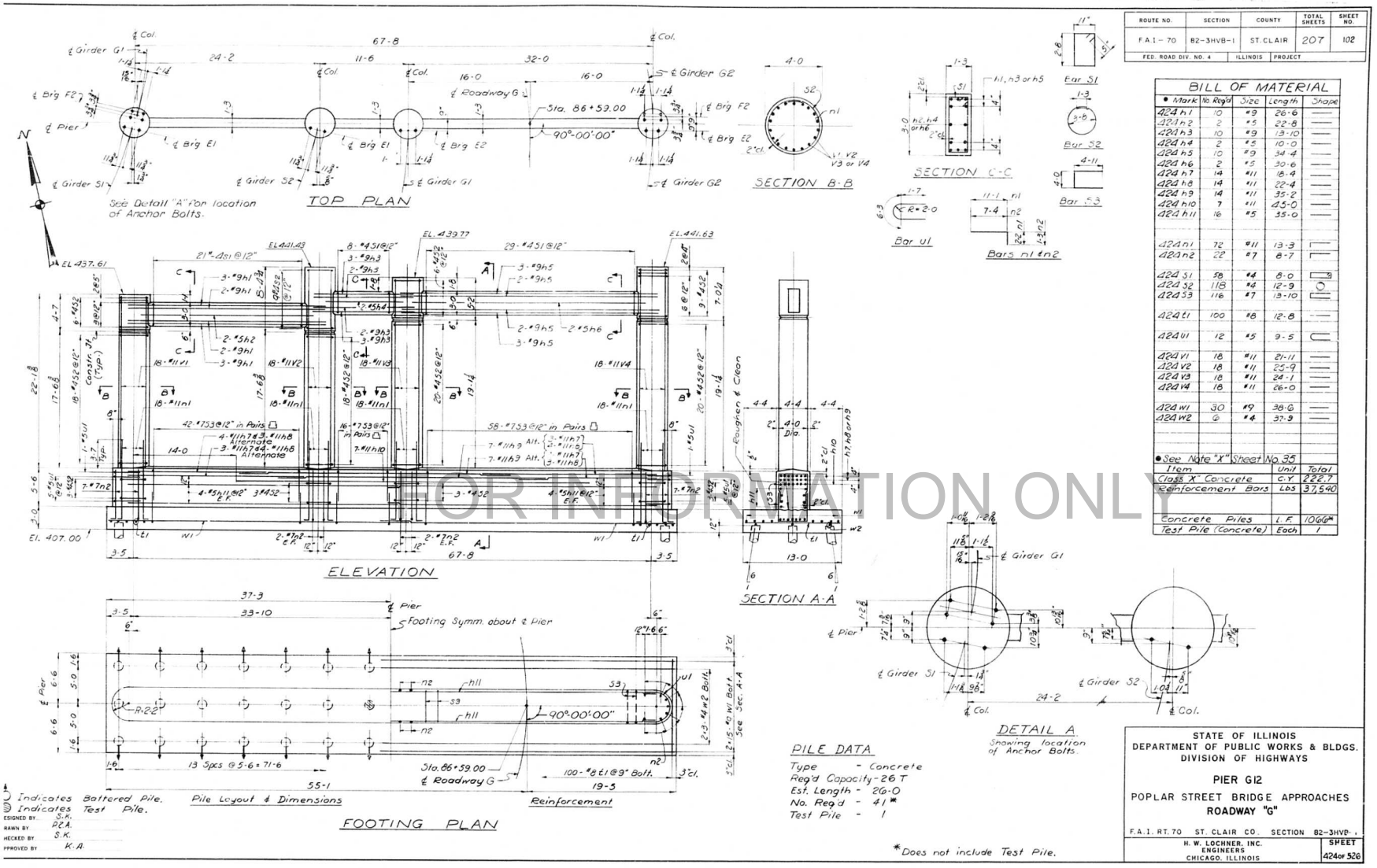
PIERS G10 AND G11

POPLAR STREET BRIDGE APPROACHES
ROADWAY "G"

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

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

SHEET 423 OF 526



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-1	ST. CLAIR	207	102
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

• Mark	No. Req'd	Size	Length	Shape
424 h1	10	#9	26-6	
424 h2	2	#5	22-8	
424 h3	10	#9	13-10	
424 h4	2	#5	10-0	
424 h5	10	#9	34-4	
424 h6	2	#5	30-6	
424 h7	14	#11	18-4	
424 h8	14	#11	22-4	
424 h9	14	#11	35-2	
424 h10	7	#11	45-0	
424 h11	16	#5	35-0	
424 n1	72	#11	13-3	
424 n2	22	#7	8-7	
424 S1	58	#4	8-0	
424 S2	118	#4	12-9	
424 S3	116	#7	13-10	
424 t1	100	#8	12-8	
424 U1	12	#5	9-5	
424 V1	18	#11	21-11	
424 V2	18	#11	25-9	
424 V3	18	#11	24-1	
424 V4	18	#11	26-0	
424 W1	30	#9	38-6	
424 W2	6	#4	37-9	
• See Note "X" Sheet No. 35				

Item	Unit	Total
Class "X" Concrete	C.Y.	222.7
Reinforcement Bars	Lbs.	37,540
Concrete Piles	L.F.	1066*
Test Pile (Concrete)	Each	1

PILE DATA

Type - Concrete
Req'd Capacity - 26 T
Est. Length - 26-0
No. Req'd - 41*
Test Pile - 1

*Does not include Test Pile.

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

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

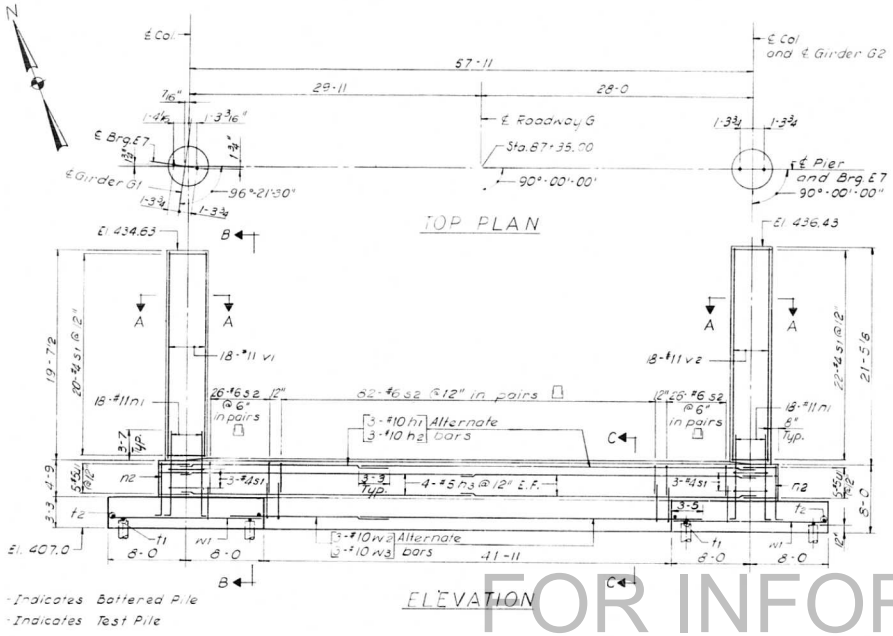
PIER G12

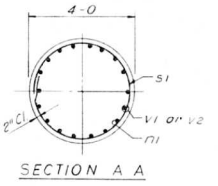
POPLAR STREET BRIDGE APPROACHES
ROADWAY "G"

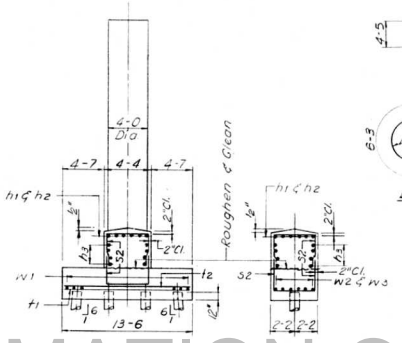
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-1

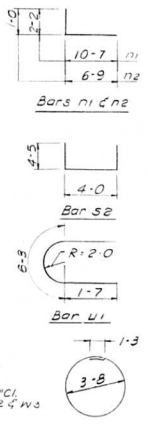
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 424 of 526









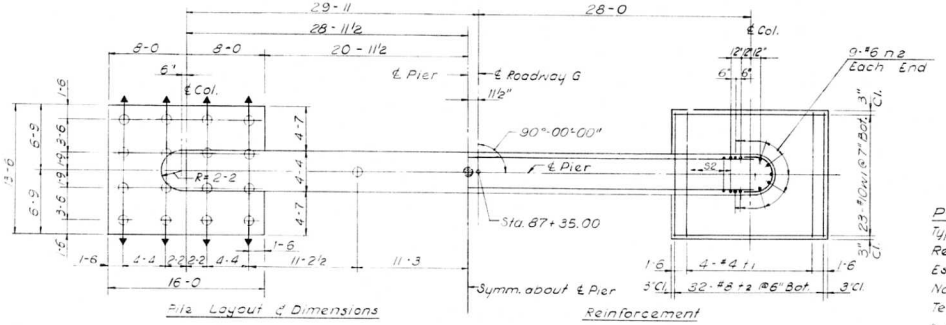
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. – 70	82–3HVB–1	ST. CLAIR	207	103
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

•Mark	No. Req'd	Size	Length	Shape
425 h1	6	#10	21-3	—
425 h2	6	#10	41-0	—
425 h3	16	#5	30-3	—
425 n1	36	#11	12-9	L
425 n2	18	#6	7-9	L
425 s1	48	#4	12-9	O
425 s2	134	#6	12-10	U
425 t1	8	#4	13-2	—
425 t2	64	#8	13-2	—
425 u1	10	#5	9-5	C
425 v1	18	#11	19-5	—
425 v2	18	#11	21-3	—
425 w1	46	#10	15-8	—
425 w2	6	#10	16-6	—
425 w3	6	#10	35-6	—

• See Note 'I' Sh. No. 35

Item	Unit	Total
Class 'A' Concrete	C.Y.	139.6
Reinforcement Bars	lbs.	18,500
Concrete Piles	L.F.	952*
Test Piles (Concrete)	Ea.	1



PILE DATA :
Type : Concrete
Req'd Capacity : 32 T
Est. Length : 28'-0
No. Req'd. : 34 *
Test Pile : 1
* Does not include Test Pile.

DESIGNED BY	E. W.
DRAWN BY	T. M.
CHECKED BY	E. W.
APPROVED BY	K. A.

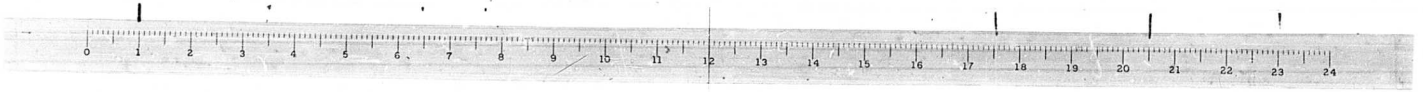
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS

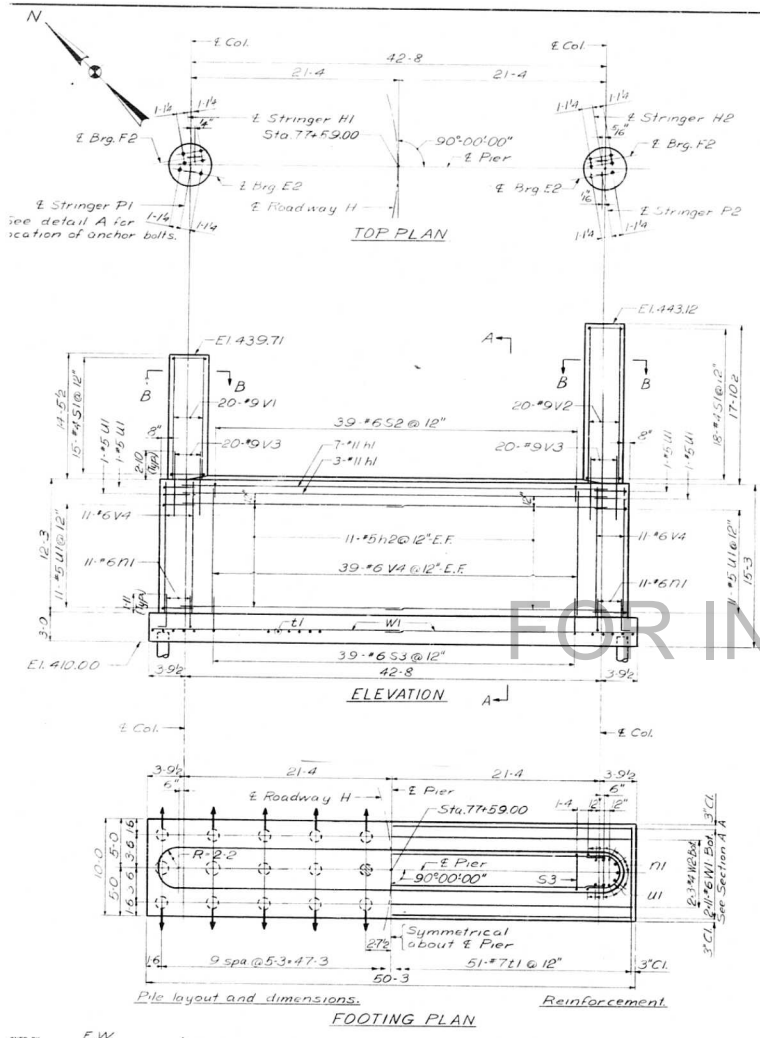
PIER G13
POPLAR STREET BRIDGE APPROACHES
ROADWAY "G"

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

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

SHEET 425 of 526





ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I—70	82—3HVB—I	ST. CLAIR	207	104
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

• Mark	No. Reqd.	Size	Length	Shape
426 h1	10	#11	43-8	—
426 h2	44	#5	22-8	—
426 M1	22	#6	4-11	⌐
426 S1	33	#4	12-9	○
426 S2	39	#6	6-0	⊏
426 S3	39	#6	11-10	⊏
426 t1	51	#7	9-8	—
426 U1	26	#5	9-5	⊂
426 V1	20	#9	14-3	—
426 V2	20	#9	17-8	—
426 V3	40	#9	6-8	—
426 V4	100	#6	12-1	—
426 W1	22	#6	25-11	—
426 W2	6	#4	25-7	—

• See Note "X" Sh. No. 95

Item	Unit	Total
Class "X" Concrete	C.Y.	1626
Reinforcement Bars	Lbs.	11,960
Concrete Piles	L.F.	1421 *
Test Piles (Concrete)	Ea.	1

PILE DATA:

Type: Concrete.
Regd Capacity: 33T
Est. Length: 49-0
No. Regd: 29*
Test Piles: 1

* Does not include test pile.

Indicates battered pile.

Indicates test pile.

DESIGNED BY E.W.
DRAWN BY S.A.
CHECKED BY S.K.
APPROVED BY K.A.

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

PIER H1

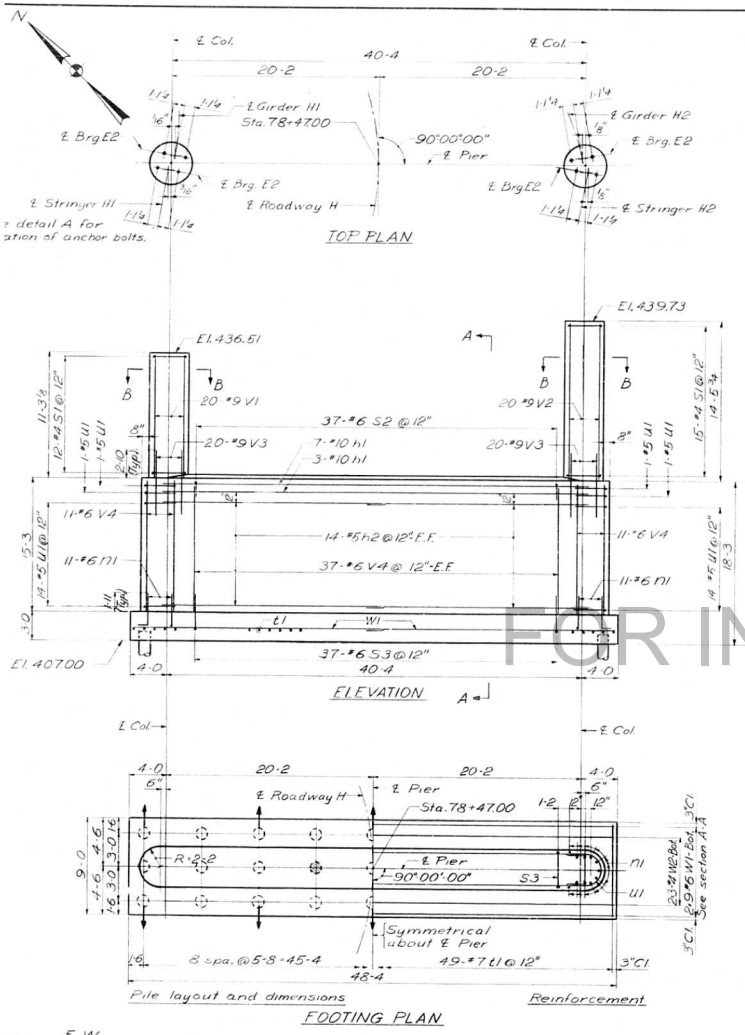
POPLAR STREET BRIDGE APPROACHES

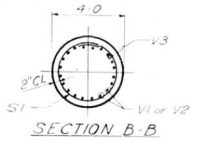
ROADWAY "H"

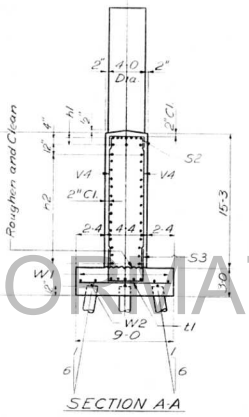
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-I

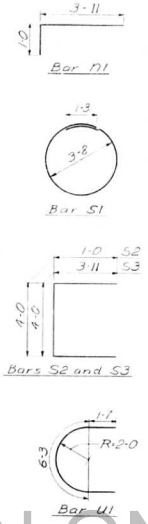
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 426 OF 526







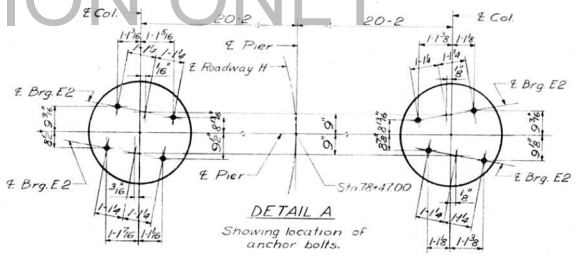


BILL OF MATERIAL				
Mark	No. Reqd.	Size	Length	Shape
427 h1	10	#10	41-4	—
427 h2	56	#5	21-6	—
427 M1	22	#6	4-11	⌐
427 S1	27	#4	12-9	○
427 S2	37	#6	6-0	⊏
427 S3	37	#6	11-10	⊏
427 t1	49	#7	8-8	—
427 U1	32	#5	9-5	⊂
427 V1	20	#9	11-1	—
427 V2	20	#9	14-3	—
427 V3	40	#9	6-8	—
427 V4	96	#6	15-1	—
427 W1	18	#6	25-0	—
427 W2	6	#4	24-8	—
*See Note "X" Sh No. 35				

Item	Unit	Total
Class "X" Concrete	C.Y.	169.5
Reinforcement Bars	Lbs.	11,180
Concrete Piles	L.F.	1040*
Test Piles (Concrete)	Ea.	1

PILE DATA:
Type: Concrete.
Regd Capacity: 35T
Est. Length: 40-0
No. Reqd: 26*
Test Piles: 1

*Does not include test file.



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I—70	82-3HVB-1	ST. CLAIR	207	105
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

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

PIER H2

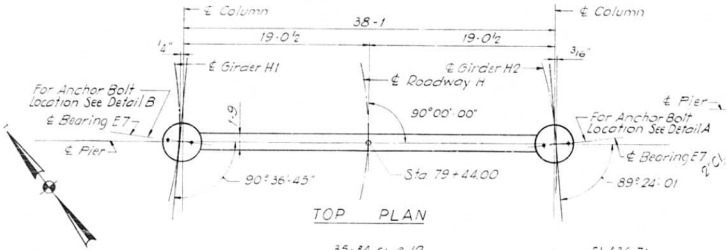
POPLAR STREET BRIDGE APPROACHES
ROADWAY "H"

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

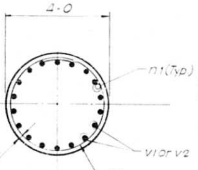
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 427 of 526

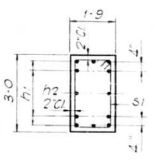
D BY E. W.
BY S. A.
D BY S. K.
D BY K. A.



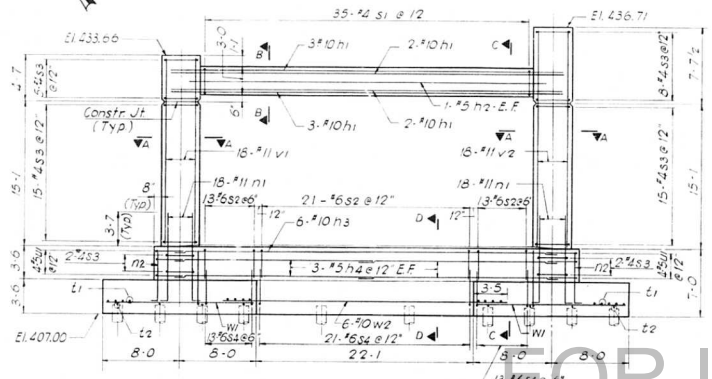
TOP PLAN



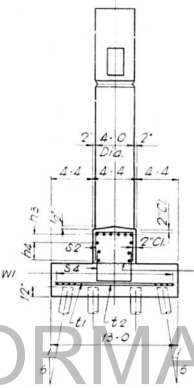
SECTION A-A



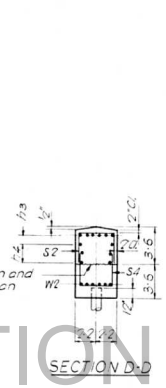
SECTION B-B



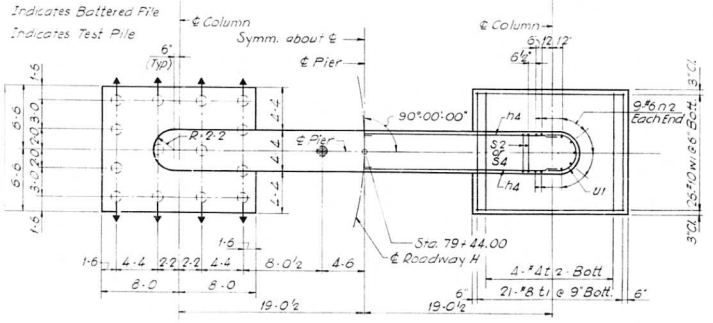
ELEVATION



SECTION C-C



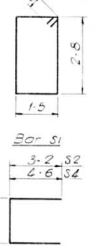
SECTION D-D



Pile Layout and Dimensions

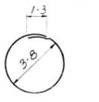
FOOTING PLAN

Reinforcement



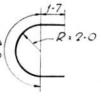
Bar S1

Bars S2 & S4

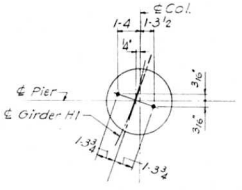


Bar S3

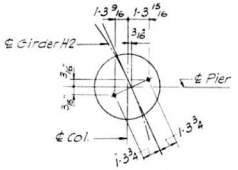
Bars n1 & n2



Bar U1



DETAIL B



DETAIL A

PILE DATA

Type	Concrete
Req'd. Capacity	35 T.
Est. Length	41-0
No. Req'd	29 *
Test Pile	1

* Does not Include Test Pile

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I-70	82-3HVB-1	ST. CLAIR	207	106
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

* Mark	No Req'd	Size	Length	Shape
428h1	10	#10	40-5	—
428h2	2	#5	36-7	—
428h3	5	#10	39-1	—
428h4	12	#5	20-4	—
428n1	36	#11	11-9	⌐
428n2	18	#6	6-9	⌐
428S1	35	#4	9-0	□
428S2	47	#6	10-4	⌊
428S3	47	#4	12-9	○
428S4	47	#6	13-0	⌊
428t1	42	#8	12-8	—
428t2	8	#4	12-8	—
428U1	8	#5	9-5	⊂
428V1	18	#11	19-6	—
428V2	18	#11	22-6	—
428W1	52	#10	15-8	—
428W2	6	#10	28-11	—

* See Note "X" Sh. No. 35

Item	Unit	Total
Class "X" Concrete	C.Y.	115.7
Reinforcement Bars	Lbs.	17,600
Concrete Piles	L.F.	1189 *
Test Piles (Concrete)	Ea.	1

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

PIER H3

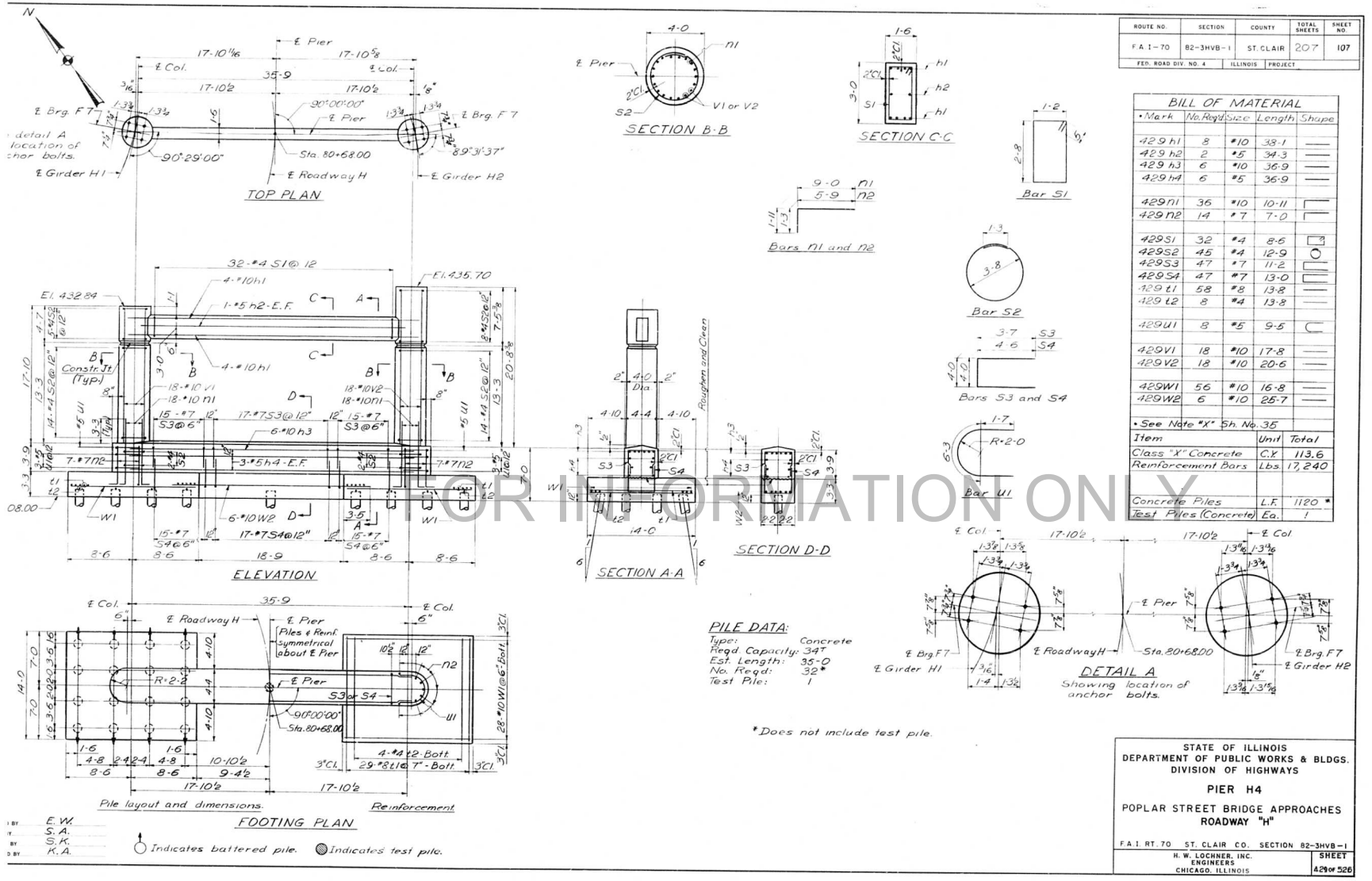
POPLAR STREET BRIDGE APPROACHES
ROADWAY "H"

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

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

SHEET 428 OF 526

SIGNED BY E.W.
DRAWN BY K.R.
CHECKED BY K.K.
APPROVED BY



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I-70	82-3HVB-1	ST. CLAIR	207	107
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

• Mark	No. Reqd.	Size	Length	Shape
429 h1	8	#10	38-1	—
429 h2	2	#5	34-3	—
429 h3	6	#10	36-9	—
429 h4	6	#5	36-9	—
429 n1	36	#10	10-11	⌐
429 n2	14	#7	7-0	⌐
429 S1	32	#4	8-6	□
429 S2	45	#4	12-9	○
429 S3	47	#7	11-2	□
429 S4	47	#7	13-0	□
429 t1	58	#8	13-8	—
429 t2	8	#4	13-8	—
429 U1	8	#5	9-5	⊂
429 V1	18	#10	17-8	—
429 V2	18	#10	20-6	—
429 W1	56	#10	16-8	—
429 W2	6	#10	25-7	—
• See Note "X" Sh. No. 35				

Item	Unit	Total
Class "X" Concrete	C.Y.	113.6
Reinforcement Bars	Lbs.	17,240
Concrete Piles	L.F.	1120 *
Test Piles (Concrete)	Ea.	1

PILE DATA:

Type:	Concrete
Reqd. Capacity:	34T
Est. Length:	35-0
No. Reqd:	32*
Test Pile:	1

*Does not include test pile.

DESIGNED BY	E.W.
CHECKED BY	S.A.
DRAWN BY	S.K.
TRACED BY	K.A.

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

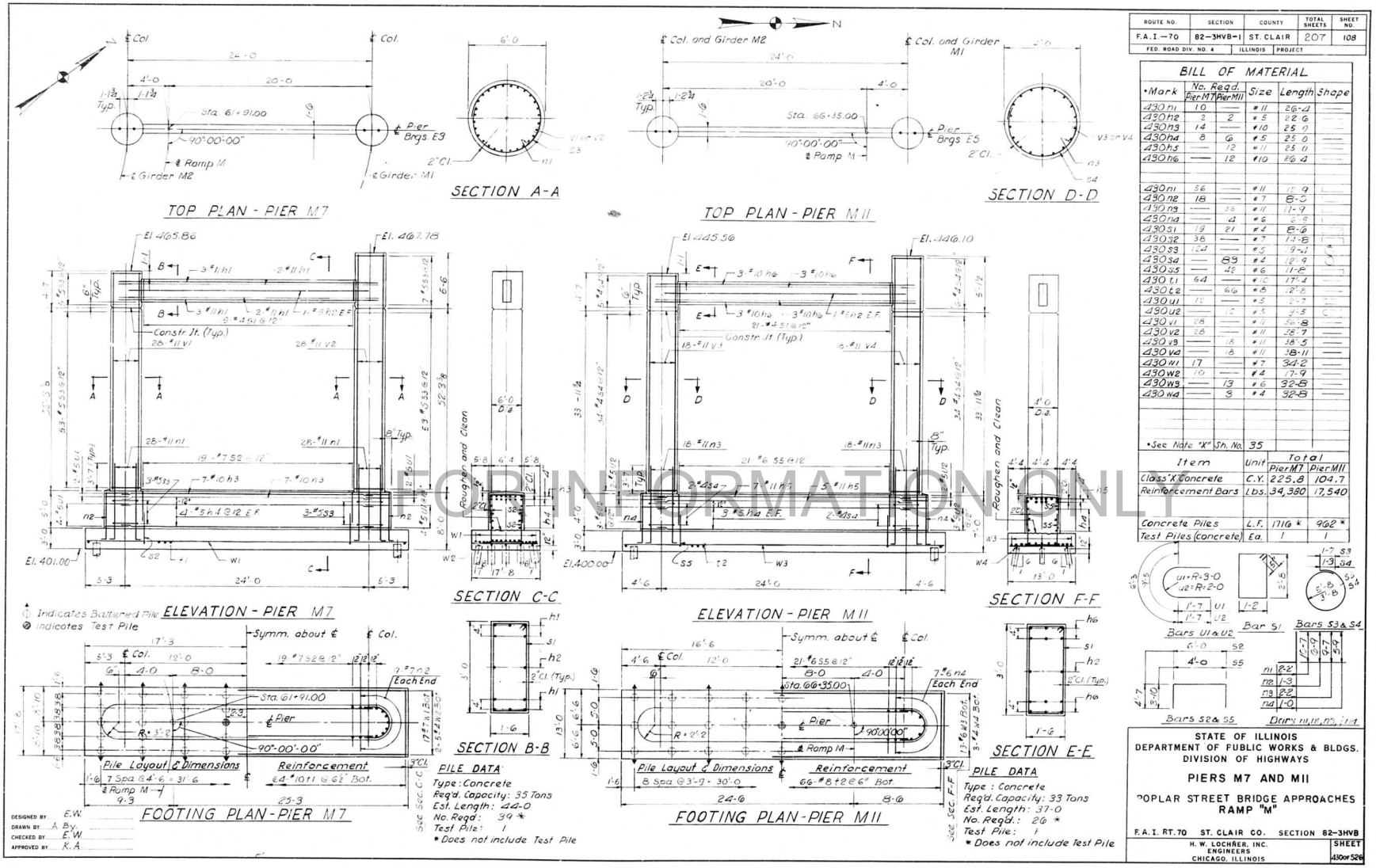
PIER H4

POPLAR STREET BRIDGE APPROACHES
ROADWAY "H"

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

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

SHEET 429 OF 526



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82-3HVB-1	ST. CLAIR	207	108
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

*Mark	No. Reqd. Pier M7	No. Reqd. Pier MII	Size	Length	Shape
430 n1	10	—	#11	26-4	—
430 n2	3	2	#5	22 6	—
430 n3	14	—	#10	25 0	—
430 n4	8	6	#5	25 0	—
430 n5	—	12	#11	25 0	—
430 n6	—	12	#10	26 4	—
430 n1	56	—	#11	17 9	L
430 n2	18	—	#7	8-0	—
430 n3	—	38	#11	17-9	L
430 n4	—	4	#6	5-9	—
430 s1	19	21	#4	8-6	—
430 s2	36	—	#7	11-8	—
430 s3	124	—	#5	9-4	—
430 s4	—	83	#4	12-9	—
430 s5	—	42	#6	11-2	—
430 t1	64	—	#10	17-4	—
430 t2	—	64	#8	12-8	—
430 u1	12	—	#5	12-7	—
430 u2	—	12	#5	7-5	—
430 v1	28	—	#11	56-8	—
430 v2	28	—	#11	38-7	—
430 v3	—	18	#11	38-5	—
430 v4	—	18	#11	38-11	—
430 w1	17	—	#7	34-2	—
430 w2	10	—	#4	17-9	—
430 w3	—	13	#6	32-6	—
430 w4	—	9	#4	32-8	—
*See Note "X"	Sh. No.	35			

Item	Unit	Total Pier M7	Total Pier MII
Class 'X' Concrete	C.Y.	225.8	104.7
Reinforcement Bars	Lbs.	34,380	17,540
Concrete Piles	L.F.	1716 *	962 *
Test Piles (concrete)	Ea.	1	1

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

PIERS M7 AND MII

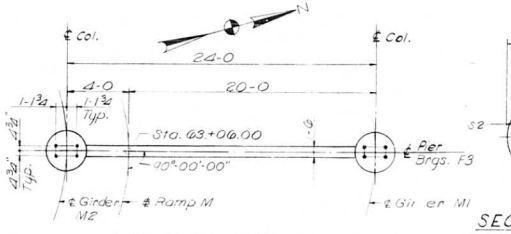
POPLAR STREET BRIDGE APPROACHES
RAMP "M"

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

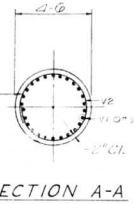
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 430 or 526

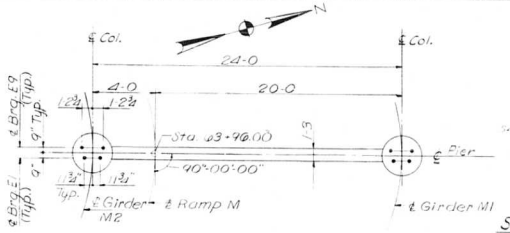
DESIGNED BY E.W.
DRAWN BY A. By
CHECKED BY E.W.
APPROVED BY K.A.



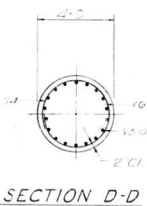
TOP PLAN - PIER M8



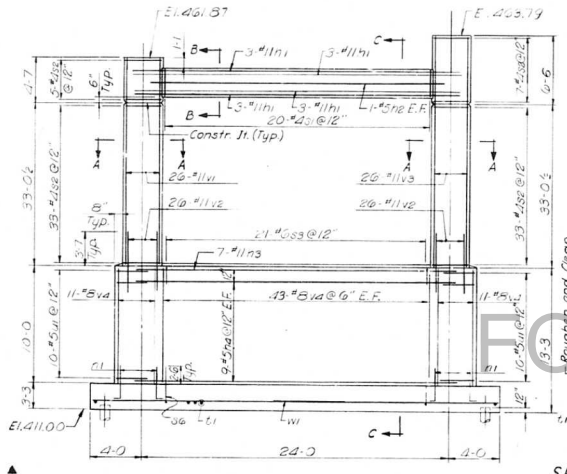
SECTION A-A



TOP PLAN - PIER M9

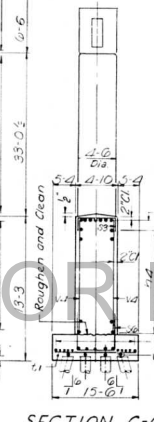


SECTION D-D

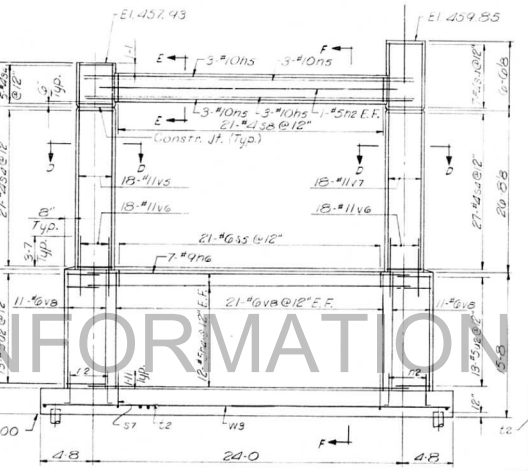


▲ Indicates Battered Pile
Ⓟ Indicates Test Pile

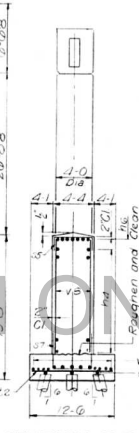
ELEVATION - PIER M8



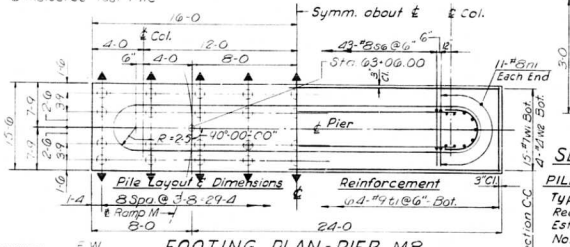
SECTION C-C



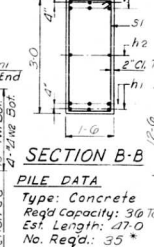
ELEVATION - PIER M9



SECTION F-F



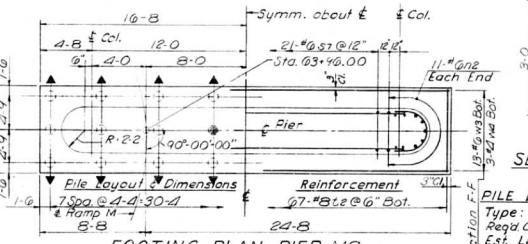
FOOTING PLAN - PIER M8



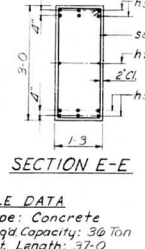
SECTION B-B

PILE DATA
Type: Concrete
Reqd Capacity: 30 Tons
Est. Length: 47-0
No. Reqd.: 35 *
Test Pile: 1
*Does not include Test Pile.

See Section C-C



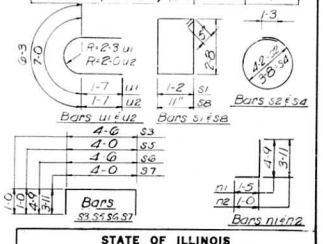
FOOTING PLAN - PIER M9



SECTION E-E

PILE DATA
Type: Concrete
Reqd Capacity: 30 Ton
Est. Length: 37-0
No. Reqd.: 23 *
Test Pile: 1
*Does not include Test Pile.

See Section F-F



DESIGNED BY E.W.
DRAWN BY Hamilton
CHECKED BY E.W.
APPROVED BY K.A.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. — 70	82-3HVB-1	ST. CLAIR	207	109
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

*Mark	No. Reqd. Pier M8	No. Reqd. Pier M9	Size	Length	Shape
431 N1	15		#7	31-8	
431 N2	4		#7	31-8	
431 N3		13	#6	33-0	
431 N4		3	#4	33-0	
431 S1	20		#4	8-6	
431 S2	78		#4	14-4	5
431 S3	21		#6	6-6	
431 S4		56	#4	12-9	5
431 S5		21	#6	6-0	
431 S6	21		#8	14-0	
431 S7		21	#6	11-10	
431 S8		21	#4	8-0	3
431 T1	64		#9	15-2	
431 T2		67	#8	12-2	
431 U1	20		#5	10-2	
431 U2		26	#5	9-5	
431 V1	26		#11	37-5	
431 V2	52		#11	5 ?	
431 V3	26		#11	39-4	
431 W4	108		#8	4-10	
431 V5		18	#11	31-1	
431 V6		36	#11	6-4	
431 V7		18	#11	33-0	
431 V8		64	#5	12-8	

*See Note "1" Sh. No. 35

Item	Unit	Total Pier M8	Total Pier M9
Class "A" Concrete	C.Y.	158.9	136.0
Reinforcement Bars	Lbs.	25,880	16,090
Concrete Piles	L.F.	1045 *	851 *
Test Piles (Concrete)	Ea.	1	1

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

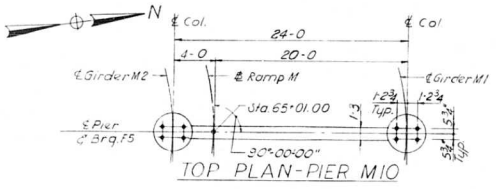
PIERS M8 AND M9

POPLAR STREET BRIDGE APPROACHES
RAMP "M"

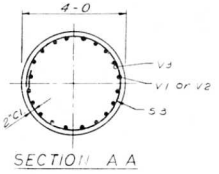
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-1

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

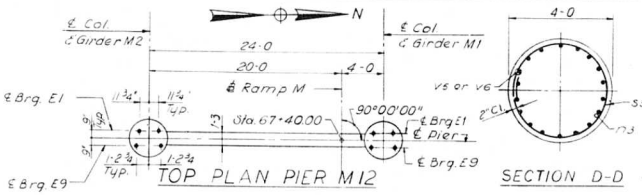
SHEET 431 OF 525



TOP PLAN-PIER M10

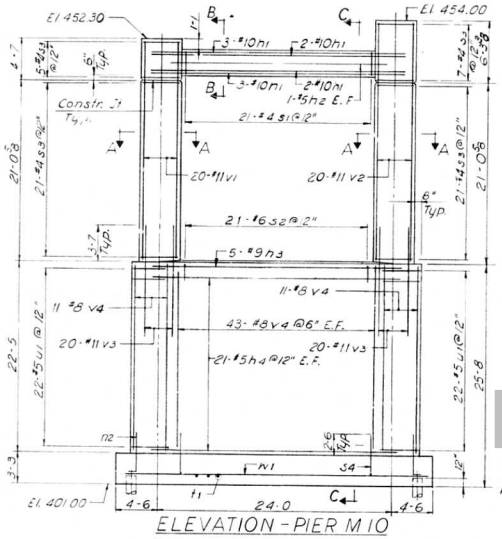


SECTION A A

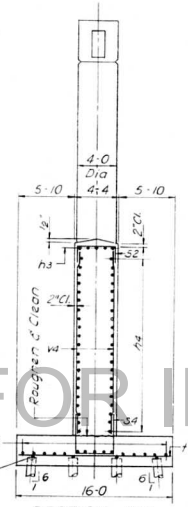


TOP PLAN PIER M12

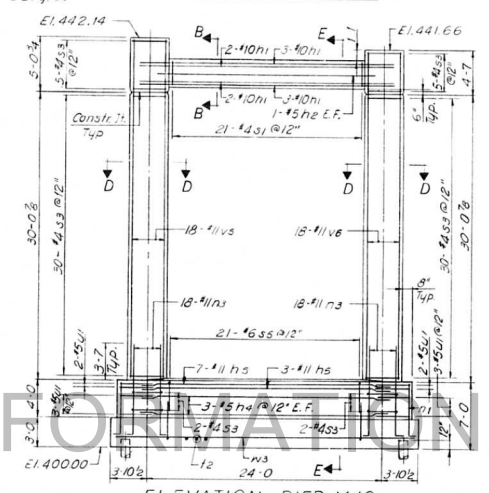
SECTION D-D



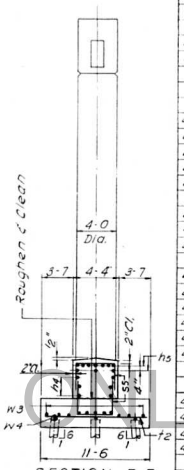
ELEVATION - PIER M10



SECTION C-C



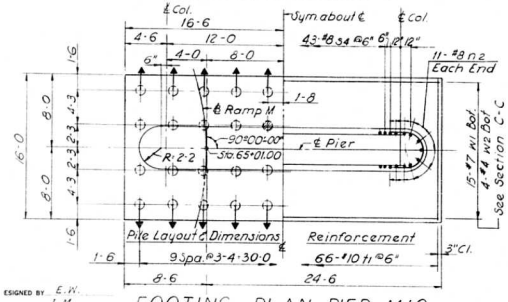
ELEVATION PIER M12



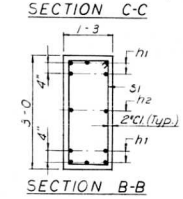
SECTION E-E

Indicates Battered Pile

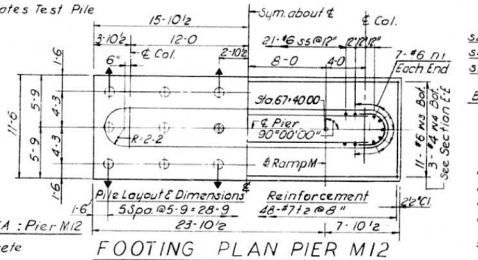
Indicates Test Pile



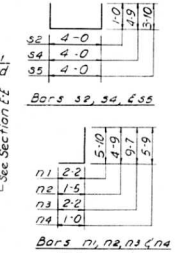
FOOTING PLAN-PIER M10



SECTION B-B



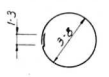
FOOTING PLAN PIER M12



PILE DATA : Pier M10
Type : Concrete
Req'd Capacity : 36 T
Est. Length : 45-0
No. Req'd : 39 *
Test Pile : 1
* Does not include Test Pile.

PILE DATA : Pier M12
Type : Concrete
Req'd Capacity : 33 T.
Est. Length 39-0
No. Req'd. : 17 *
Test Pile : 1
* Does not include Test Pile.

Bar S1



Bar S3

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82-3HVB-1	ST. CLAIR	207	110
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

* Mark	No. Req'd. M10	No. Req'd. M12	Size	Length	Shape
432 h1	10	10	#10	26-4	
432 h2	2	2	#5	22-6	
432 h3	5	-	#9	25-0	
432 h4	42	6	#5	25-0	
432 h5	-	10	#11	25-0	
432 n1	-	14	#6	6-9	
432 n2	22	-	#8	6-2	
432 n3	-	36	#11	11-9	
432 s1	21	21	#4	8-0	
432 s2	21	-	#6	5-0	
432 s3	54	74	#4	12-9	
432 s4	43	-	#8	13-6	
432 s5	-	42	#6	11-8	
432 t1	66	-	#10	15-8	
432 t2	-	48	#7	11-2	
432 u1	44	10	#5	9-5	
432 V1	20	-	#11	25-6	
432 V2	20	-	#11	27-2	
432 V3	40	-	#11	9-2	
432 V4	108	-	#8	22-3	
432 V5	-	18	#11	34-11	
432 V6	-	18	#11	34-6	
432 W1	15	-	#7	32-8	
432 W2	4	-	#4	32-6	
432 W3	-	11	#6	31-5	
432 W4	-	3	#4	31-5	

* See Note "K" Sh. No. 35

Item	Unit	Total Pier M10	Total Pier M12
Class "K" Concrete	C.Y.	192.0	93.6
Reinforcement Bars	Lbs.	27,000	14,950
Concrete Piles	L.F.	1755 *	663 *
Test Piles (Concrete)	Ea.	1	1

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

PIERS M10 AND M12

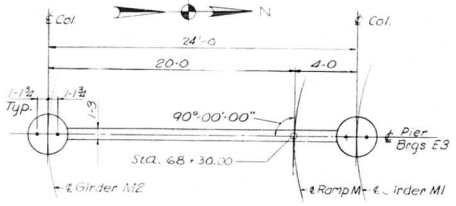
POPLAR STREET BRIDGE APPROACHES
RAMP "M"

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

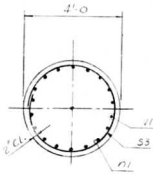
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 432 OF 526

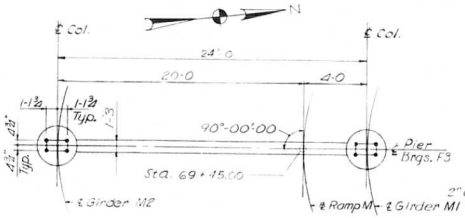
DESIGNED BY E.W.
DRAWN BY I.M.
CHECKED BY E.W.
APPROVED BY R.A.



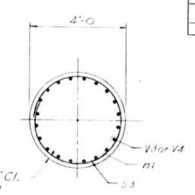
TOP PLAN - PIER M13



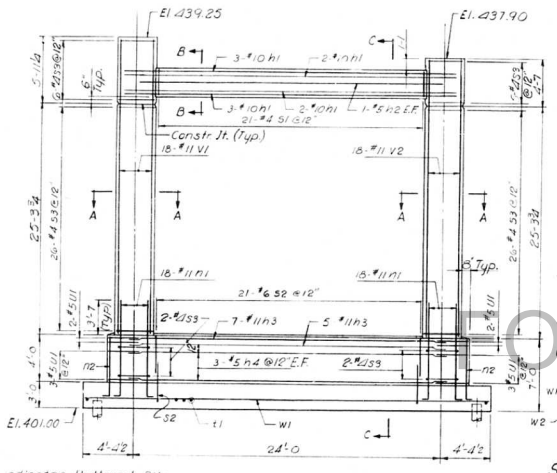
SECTION A-A



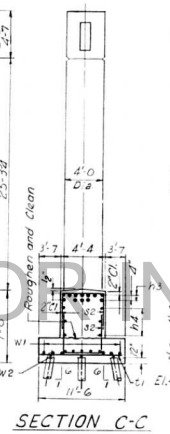
TOP PLAN - PIER M14



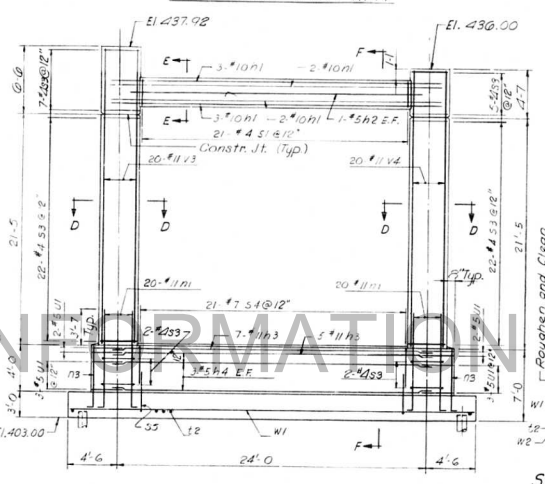
SECTION D-D



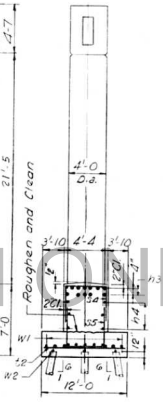
ELEVATION - PIER M13



SECTION C-C

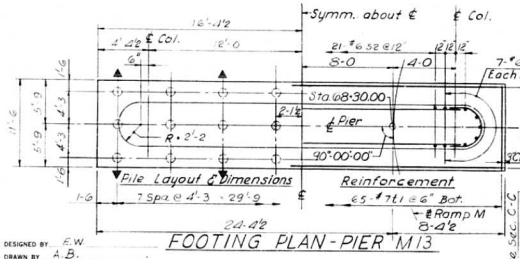


ELEVATION - PIER M14

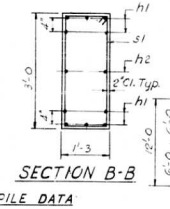


SECTION F-F

▲ Indicates Battered Pile
⊕ Indicates Test Pile

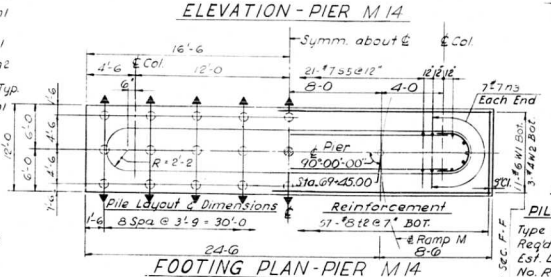


FOOTING PLAN - PIER M13

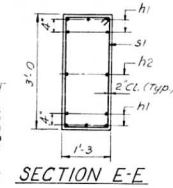


SECTION B-B

PILE DATA
Type: Concrete
Reqd. Capacity: 34 Tons
Est. Length: 37'-0
No. Reqd: 29 *
Test Pile 1
* Does not include Test Pile



FOOTING PLAN - PIER M14



SECTION E-E

PILE DATA
Type : Concrete
Reqd. Capacity: 34 Tons
Est. Length: 39'-0
No. Reqd.: 26 *
Test Pile: 1
* Does not include Test Pile

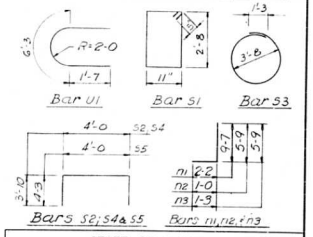
DESIGNED BY E.W.
DRAWN BY A.B.
CHECKED BY E.W.
APPROVED BY K.A.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I — 70	82-3HVB-1	ST. CLAIR	207	111
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

BILL OF MATERIAL

*Mark	No. Reqd. Pier M13	No. Reqd. Pier M14	Size	Length	Shape
433 n1	10	10	# 10	26-4	
433 n2	2	2	# 5	22-6	
433 n3	12	12	# 11	25' 0	
433 n4	6	6	# 5	25'0	
433 n1	36	20	# 11	11'-9	
433 n2	4	—	# 6	6'-9	
433 n3	—	14	# 7	7'0	
433 S1	21	21	# 4	8'-0	
433 S2	42	—	# 6	11'-8	
433 S3	68	60	# 4	12'-9	
433 S4	—	21	# 7	11'-8	
433 S5	—	21	# 7	12'-6	
433 t1	63	—	# 7	11'-2	
433 t2	—	57	# 8	11'-8	
433 U1	10	10	# 5	9'-5	
433 V1	18	—	# 11	31'-1	
433 V2	18	—	# 11	29'-8	
433 V3	—	20	# 11	27'-9	
433 V4	—	20	# 11	25'-10	
433 W1	11	11	# 6	32'-5	
433 W2	6	6	# 4	32'-5	
*See Note "X" Sh. No.	35				

Item	Unit	Total Pier M13	Total Pier M14
Class 'X' Concrete	C.Y.	90.7	89.4
Reinforcement Bars	Lbs.	14,800	15,520
Concrete Piles	L.F.	851 *	1014 *
Test Piles (Concrete)	Ea.	1	1



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

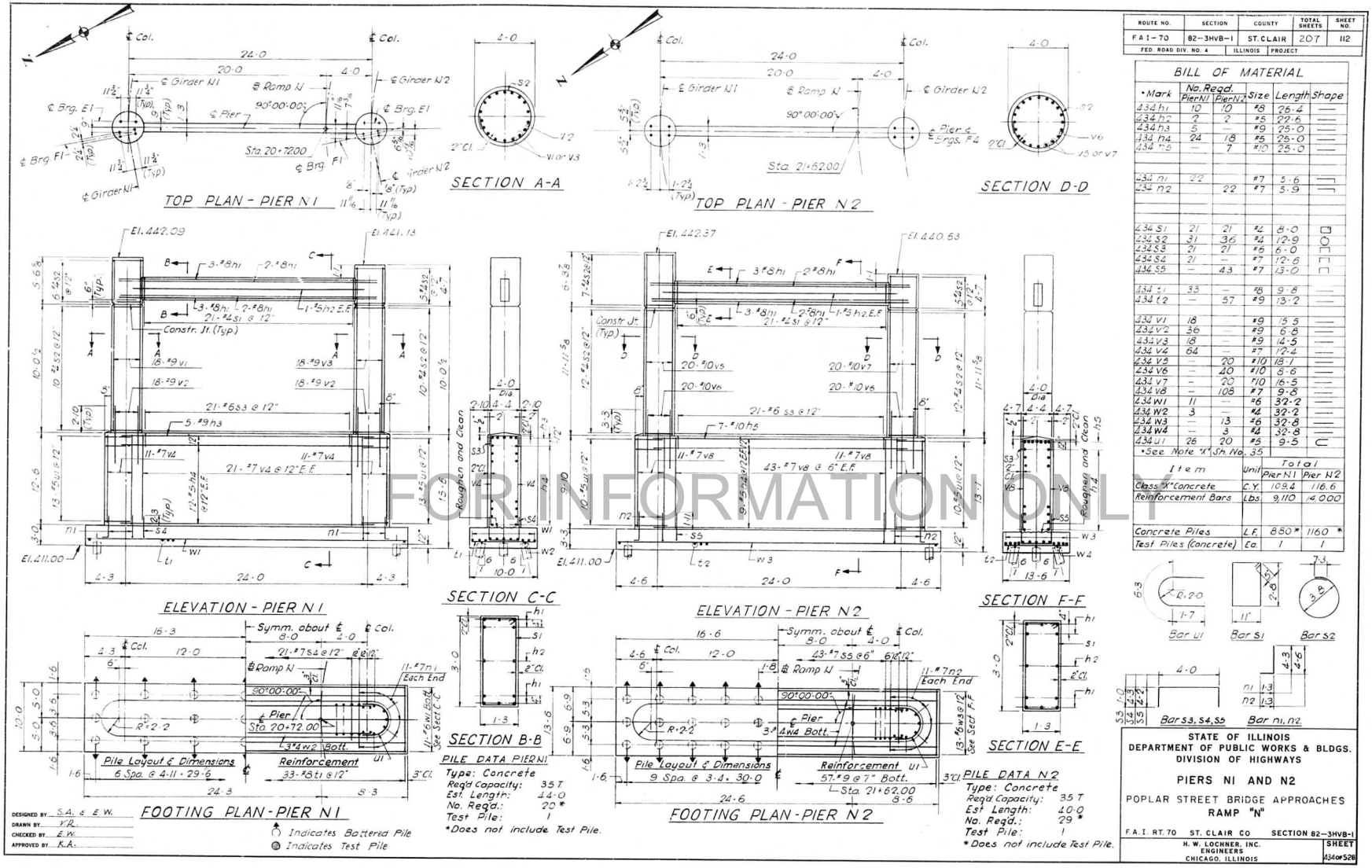
PIERS M13 AND M14

POPLAR STREET BRIDGE APPROACHES
RAMP "M"

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

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

SHEET 433 or 526



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82--3HVB-1	ST. CLAIR	207	112
FED. ROAD DIV. NO. 4		ILLINOIS PROJECT		

BILL OF MATERIAL

• Mark	No. Reqd. Pier N1	No. Reqd. Pier N2	Size	Length	Shape
434 h1	10	10	#8	26.4	—
434 h2	2	2	#5	22.6	—
434 h3	5	—	#9	25.0	—
434 h4	24	18	#5	25.0	—
434 h5	—	7	#10	25.0	—
434 n1	22		#7	5.6	⊓
434 n2		22	#7	5.9	⊓
434 S1	21	21	#4	8.0	□
434 S2	31	36	#4	12.9	□
434 S3	21	21	#6	6.0	□
434 S4	21	—	#7	12.6	□
434 S5	—	43	#7	13.0	□
434 t1	33	—	#8	9.8	—
434 t2	—	57	#9	13.2	—
434 V1	18		#9	15.5	—
434 V2	36	—	#9	6.8	—
434 V3	18	—	#9	14.5	—
434 V4	64	—	#7	12.4	—
434 V5	—	20	#10	18.1	—
434 V6	—	40	#10	5.6	—
434 V7	—	20	#10	16.5	—
434 V8	—	108	#7	9.8	—
434 W1	11	—	#6	32.2	—
434 W2	3	—	#4	32.2	—
434 W3	—	13	#6	32.8	—
434 W4	—	3	#4	32.8	—
434 U1	26	20	#5	9.5	∪

• See Note "K" Sh. No. 35

Item	Unit	Total Pier N1	Total Pier N2
Class "K" Concrete	C.Y.	109.4	116.6
Reinforcement Bars	Lbs.	9,110	14,000
Concrete Piles	L.F.	850*	1160*
Test Piles (Concrete)	Ea.	1	1

PILE DATA PIER N1
Type: Concrete
Reqd. Capacity: 35 T
Est. Length: 44.0
No. Reqd.: 20*
Test Pile: 1
*Does not include Test Pile.

PILE DATA N2
Type: Concrete
Reqd. Capacity: 35 T
Est. Length: 40.0
No. Reqd.: 29*
Test Pile: 1
*Does not include Test Pile.

DESIGNED BY S.A. & E.W.
DRAWN BY Y.R.
CHECKED BY E.W.
APPROVED BY K.A.

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

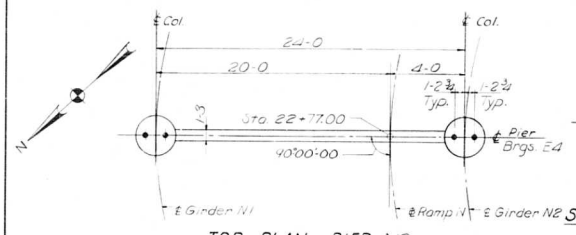
PIERS N1 AND N2

POPLAR STREET BRIDGE APPROACHES
RAMP "N"

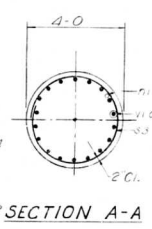
F.A.I. RT. 70 ST. CLAIR CO SECTION 82-3HVB-1

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

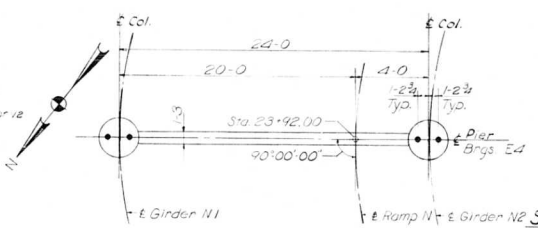
SHEET 434 OF 528



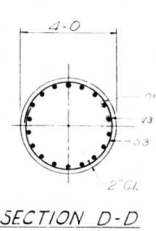
TOP PLAN - PIER N3



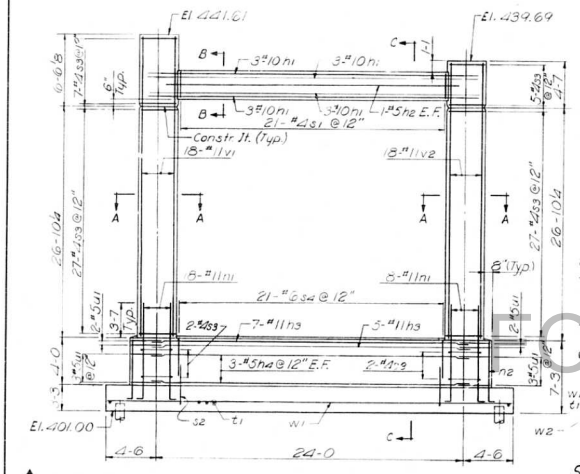
SECTION A-A



TOP PLAN - PIER N4

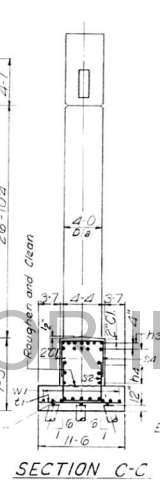


SECTION D-D

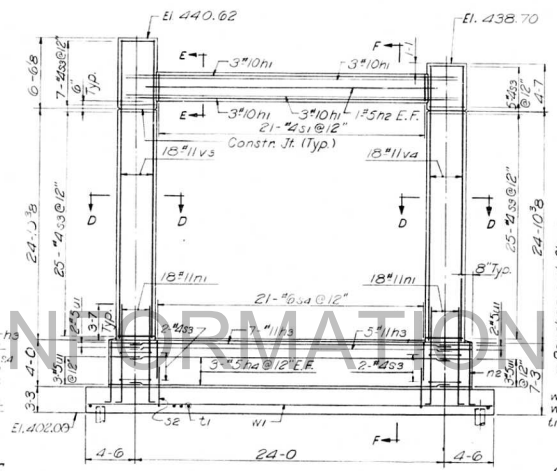


▲ Indicates Battered Pile
◎ Indicates Test Pile

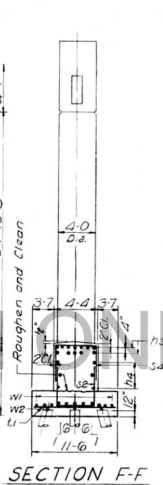
ELEVATION - PIER N3



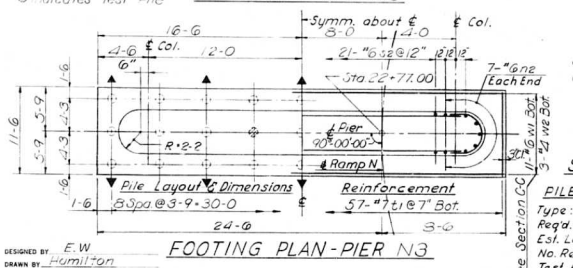
SECTION C-C



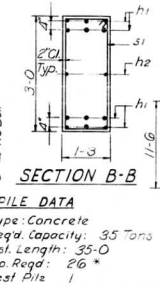
ELEVATION - PIER N4



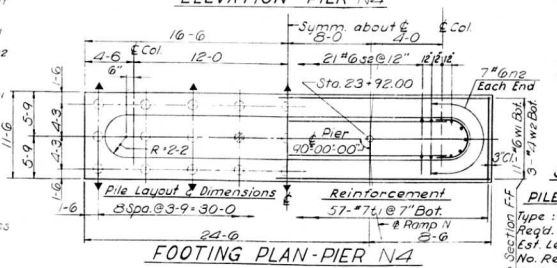
SECTION F-F



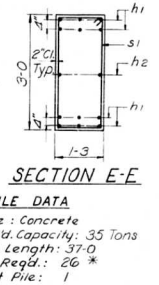
FOOTING PLAN - PIER N3



SECTION B-B



FOOTING PLAN - PIER N4



SECTION E-E

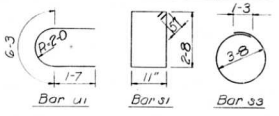
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I — 70	82-3HVB-1	ST. CLAIR	207	113
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

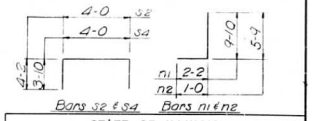
BILL OF MATERIAL

•Mark	No. Reqd. Pier N3	No. Reqd. Pier N4	Size	Length	Shape
435 n1	12	12	#10	26-4	
435 n2	2	2	#5	22-6	
435 n3	12	12	#11	25-0	
435 n4	6	6	#5	25-0	
435 n1	36	36	#11	12-0	
435 n2	14	14	#6	6-9	
435 s1	21	21	#4	8-0	
435 s2	21	21	#6	12-4	
435 s3	70	66	#4	12-9	
435 s4	21	21	#6	11-8	
435 t1	57	57	#7	11-2	
435 u1	10	10	#5	9-5	
435 v1	18	—	#11	33-2	
435 v2	18	—	#11	31-3	
435 v3	—	18	#11	31-2	
435 v4	—	18	#11	29-3	
435 w1	11	11	#6	32-8	
435 w2	3	3	#4	32-8	

•See Note "X" Sh. No. 35

Item	Unit	Total Pier N3	Total Pier N4
Class 'X' Concrete	C.Y.	96.1	94.3
Reinforcement Bars	Lbs.	15,220	14,810
Concrete Piles	L.F.	910 *	962 *
Test Piles (concrete)	Ea.	1	1





Bars s2 & s4 Bars n1 & n2

PILE DATA
Type: Concrete
Reqd. Capacity: 35 Tons
Est. Length: 35-0
No. Reqd: 26 *
Test Pile 1
* Does not include Test Pile

See Section CC

PILE DATA
Type: Concrete
Reqd. Capacity: 35 Tons
Est. Length: 37-0
No. Reqd.: 26 *
Test Pile: 1
* Does not include Test Pile

See Section F-F

DESIGNED BY E.W.
DRAWN BY Hamilton
CHECKED BY E.W.
APPROVED BY K.A.

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

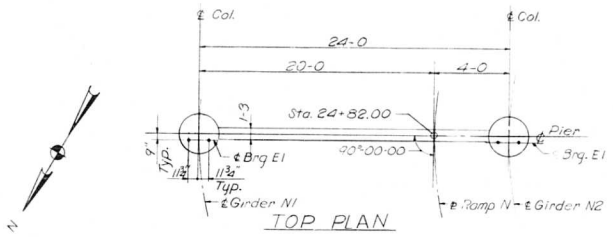
PIERS N3 AND N4

POPLAR STREET BRIDGE APPROACHES
RAMP "N"

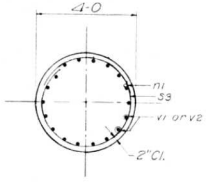
F.A.I RT.70 ST. CLAIR CO. SECTION 82-3HVB-1

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

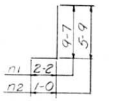
SHEET 435 OF 528



TOP PLAN

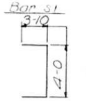


SECTION A-A



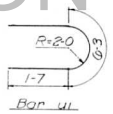
Bars n1 & n2

Bar s1

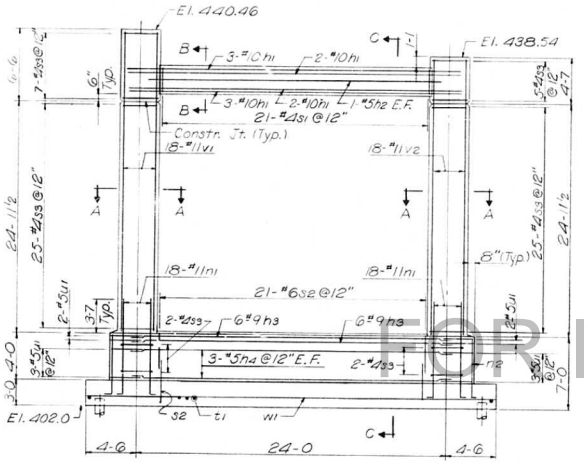


Bar s2

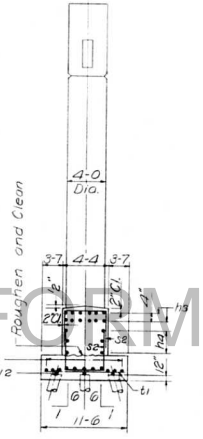
Bar s3



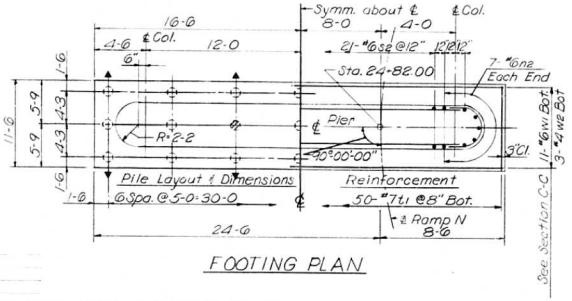
Bar u1



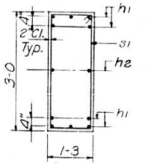
ELEVATION



SECTION C-C



FOOTING PLAN



SECTION B-B

PILE DATA

Type : Concrete
Reqd. Capacity : 33 Tons
Est. Length : 38'0
No. Reqd. : 20 *
Test Pile : 1
* Does not include Test Pile

▲ Indicates Battered Pile
Ø Indicates Test Pile

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-1	ST. CLAIR	207	114
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

• Mark	No. Reqd.	Size	Length	Shape
436 h1	10	#10	26-4	
436 h2	2	#5	22-6	
436 h3	12	#9	25-0	
436 h4	6	#5	25-0	
436 n1	36	#11	1-9	
436 n2	14	#6	6-9	
436 s1	21	#4	8-0	A
436 s2	42	#6	11-8	
436 s3	66	#4	12-9	B
436 t1	50	#7	11-2	
436 u1	10	#5	9-5	C
436 v1	18	#11	31-3	
436 v2	18	#11	29-4	
436 w1	11	#6	32-8	
436 w2	3	#4	32-8	

• See Note "X" Sh. No. 35

Item	Unit	Total
Class "X" Concrete	C.Y.	91.0
Reinforcement Bars	Lbs.	13,800
Concrete Piles	L.F.	760 *
Test Piles (concrete)	Ea.	1

DESIGNED BY E.W.
DRAWN BY Hamilton
CHECKED BY E.W.
APPROVED BY K.A.

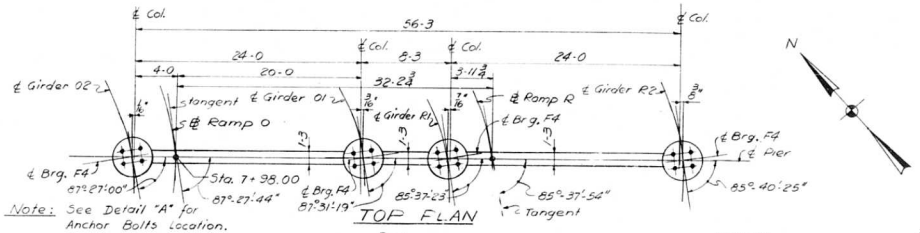
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS

PIER N5
POPLAR STREET BRIDGE APPROACHES
RAMP "N"

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

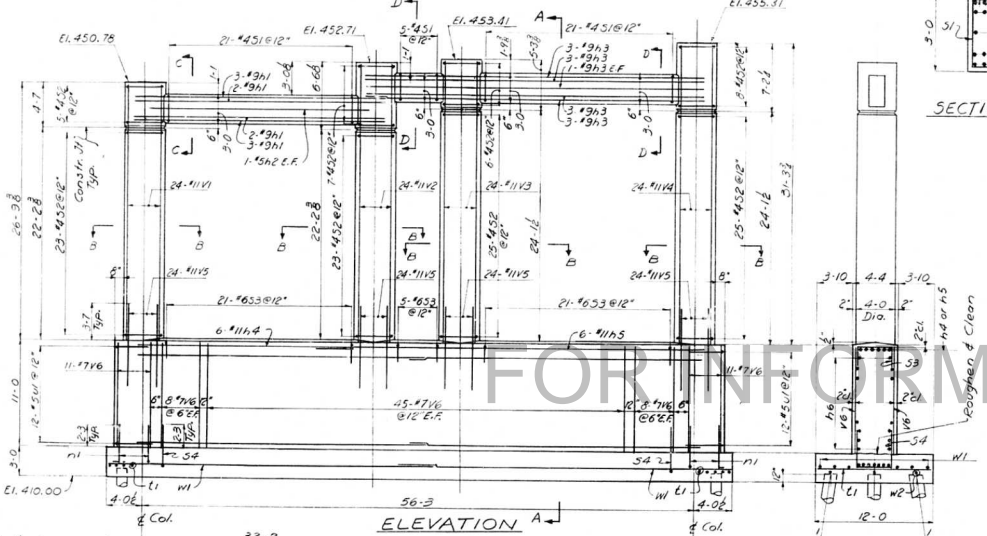
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 436 OF 526



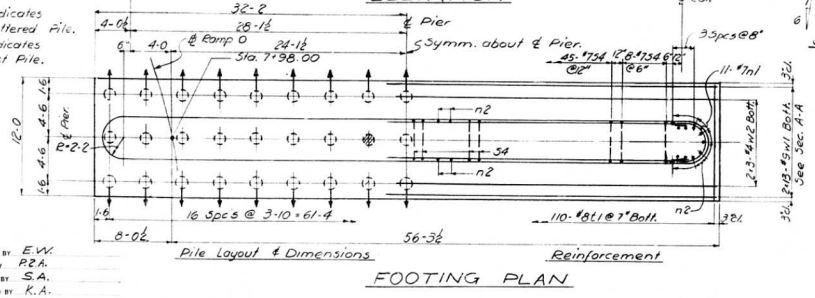
Note: See Detail "A" for Anchor Bolts Location.

TOP PLAN



ELEVATION

SECTION A-A

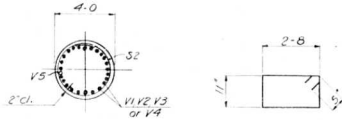


Pile Layout & Dimensions

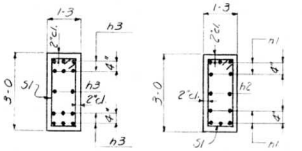
Reinforcement

FOOTING PLAN

SIGNED BY E.W.
AWN BY P.Z.A.
ECKED BY S.A.
PROVED BY K.A.



SECTION-B-B

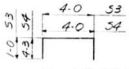


SECTION D-D SECTION-C-C

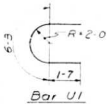
Bars n1

Bar S1

Bar S2



Bars S3 & S4



Bar U1

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-1	ST CLAIR	207	115
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

• Mark	No. Reqd	Size	Length	Shape
437h1	10	#9	26-4	
437h2	2	#5	22-6	
437h3	14	#9	34-7	
437h4	6	#11	20-11	
437h5	6	#11	40-0	
437h6	44	#5	29-6	
437n1	22	#7	5-6	
437S1	47	#4	8-0	
437S2	122	#4	12-9	
437S3	47	#6	6-0	
437S4	61	#7	12-6	
437U1	110	#8	11-8	
437u1	24	#5	9-5	
437V1	24	#11	26-7	
437V2	24	#11	28-6	
437V3	24	#11	29-2	
437V4	24	#11	31-1	
437V5	76	#11	9-2	
437V6	444	#7	10-10	
437W1	26	#9	33-5	
437W2	6	#4	32-8	

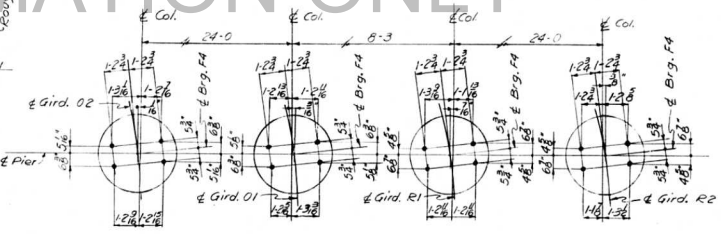
• See Note "1" Sheet No 35.

Item	Unit	Total
Class 'X' Concrete	C.Y.	251.6
Reinforcement Bars	Lbs	36,720
Concrete Piles	L.F.	2000*
Test Pile (Concrete)	Each	1

PILE DATA

Type - Concrete
Reqd. Cap. - 35 T.
Est. Length - 40-0
No. Reqd. - 50 *
Test Pile - 1

* Does not include Test Pile.



DETAIL "A"
Showing Location of Anchor Bolts.

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

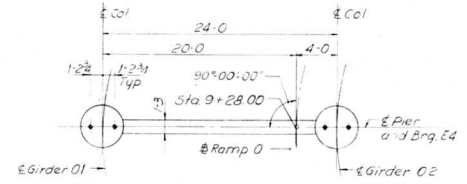
PIER 01

POPLAR STREET BRIDGE APPROACHES
RAMP "O"

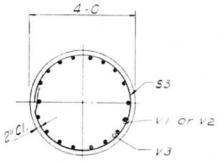
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-1

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

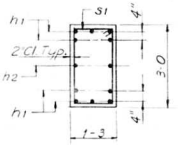
SHEET 437 OF 526



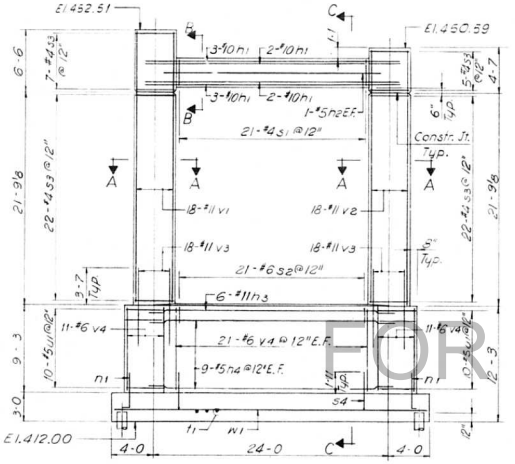
TOP PLAN



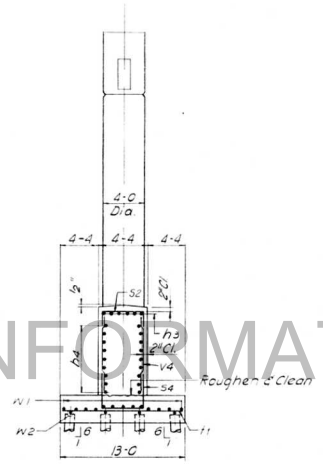
SECTION A-A



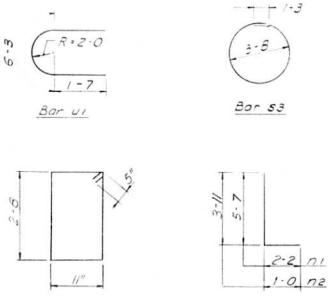
SECTION B-B



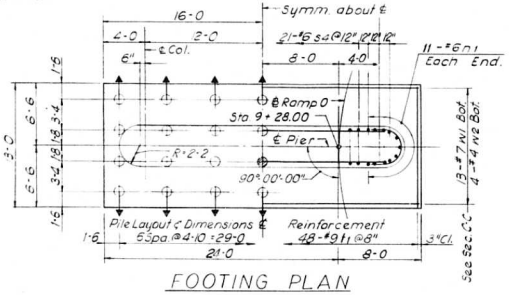
ELEVATION



SECTION C-C



- Indicates Battered Pile
- Indicates Test Pile



FOOTING PLAN

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

PILE DATA
Type: Concrete
Req'd. Capacity : 35T.
Est. Length : 44-0
No. Req'd : 27 *
Test Pile : 1
* Does not include Test Pile.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I-70	82-3HVB-1	ST. CLAIR	207	116
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

• Mark	No Req'd	Size	Length	Shape
438 h1	10	#10	26-4	—
438 h2	2	#5	22-6	—
438 h3	6	#11	25-0	—
438 h4	18	#5	25-0	—
438 n1	22	#6	4-11	L
438 s1	21	#4	8-0	□
438 s2	21	#6	6-0	⌴
438 s3	56	#4	12-9	○
438 s4	21	#6	11-10	⌴
438 t1	48	#9	12-8	—
438 u1	20	#5	9-5	⊂
438 v1	18	#11	28-1	—
438 v2	18	#11	26-2	—
438 v3	36	#11	7-2	—
438 v4	64	#6	9-0	—
438 w1	13	#7	31-8	—
438 w2	4	#4	31-8	—

• See Note "X" Sh. No. 35

Item	Unit	Total
Class "X" Concrete	C.Y.	115.8
Reinforcement Bars	Lbs.	14370
Concrete Piles	L.F.	1188 *
Test Piles (Concrete)	Ea.	1

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

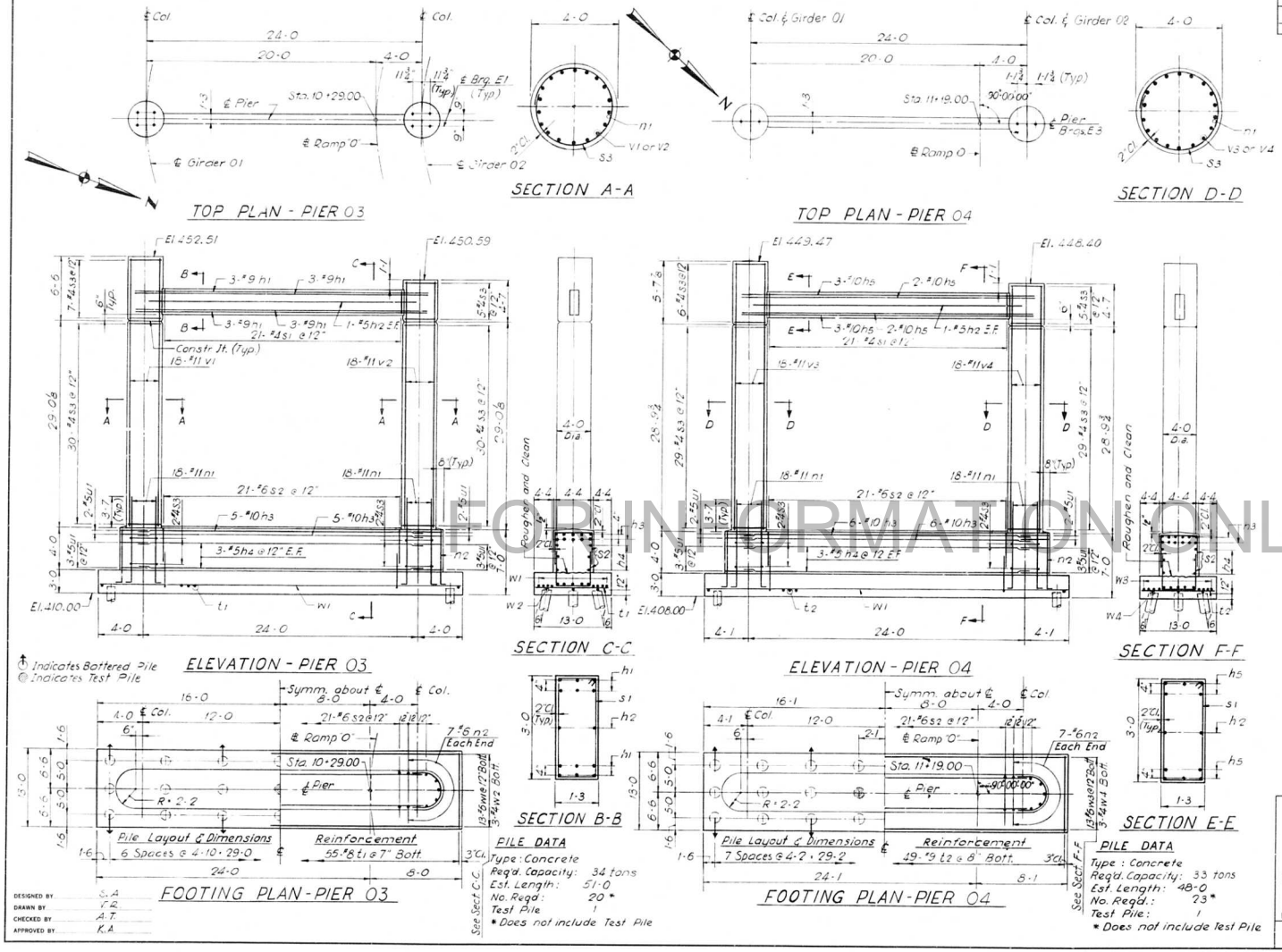
PIER 02

POPLAR STREET BRIDGE APPROCHES
RAMP "O"

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

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

SHEET 438 of 526



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-1	ST. CLAIR	207	117
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

*Mark	No. Reqd. Pier 03	No. Reqd. Pier 04	Size	Length	Shape
439 h1	12		#9	26-4	
439 h2	2	2	#5	22-6	
439 h3	10	12	#10	25-0	
439 h4	6	6	#5	25-0	
439 h5		10	#10	26-4	
439 n1	36	36	#11	11-9	
439 n2	14	14	#6	9-9	
439 S1	21	21	#4	8-0	□
439 S2	42	42	#6	11-8	□
439 S3	76	73	#4	12-9	○
439 t1	55		#8	12-8	
439 t2		49	#9	12-8	
439 U1	10	10	#5	9-5	⊏
439 V1	18		#11	35-4	
439 V2	18		#11	33-5	
439 V3		18	#11	34-3	
439 V4		18	#11	33-3	
439 W1	13		#6	31-8	
439 W2	3		#4	31-8	
439 W3		13	#6	31-10	
439 W4		3	#4	31-10	

*Sec. Note "X" Sh. No. 35

Item	Unit	Total Pier 03	Total Pier 04
Class 'X' Concrete	C.Y.	98.9	98.4
Reinforcement Bars	Lbs.	15,450	15,840
Concrete Piles	L.F.	1020*	1104*
Test Piles (concrete)	Ea.	1	1

DESIGNED BY S.A.
DRAWN BY K.R.
CHECKED BY A.T.
APPROVED BY K.A.

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

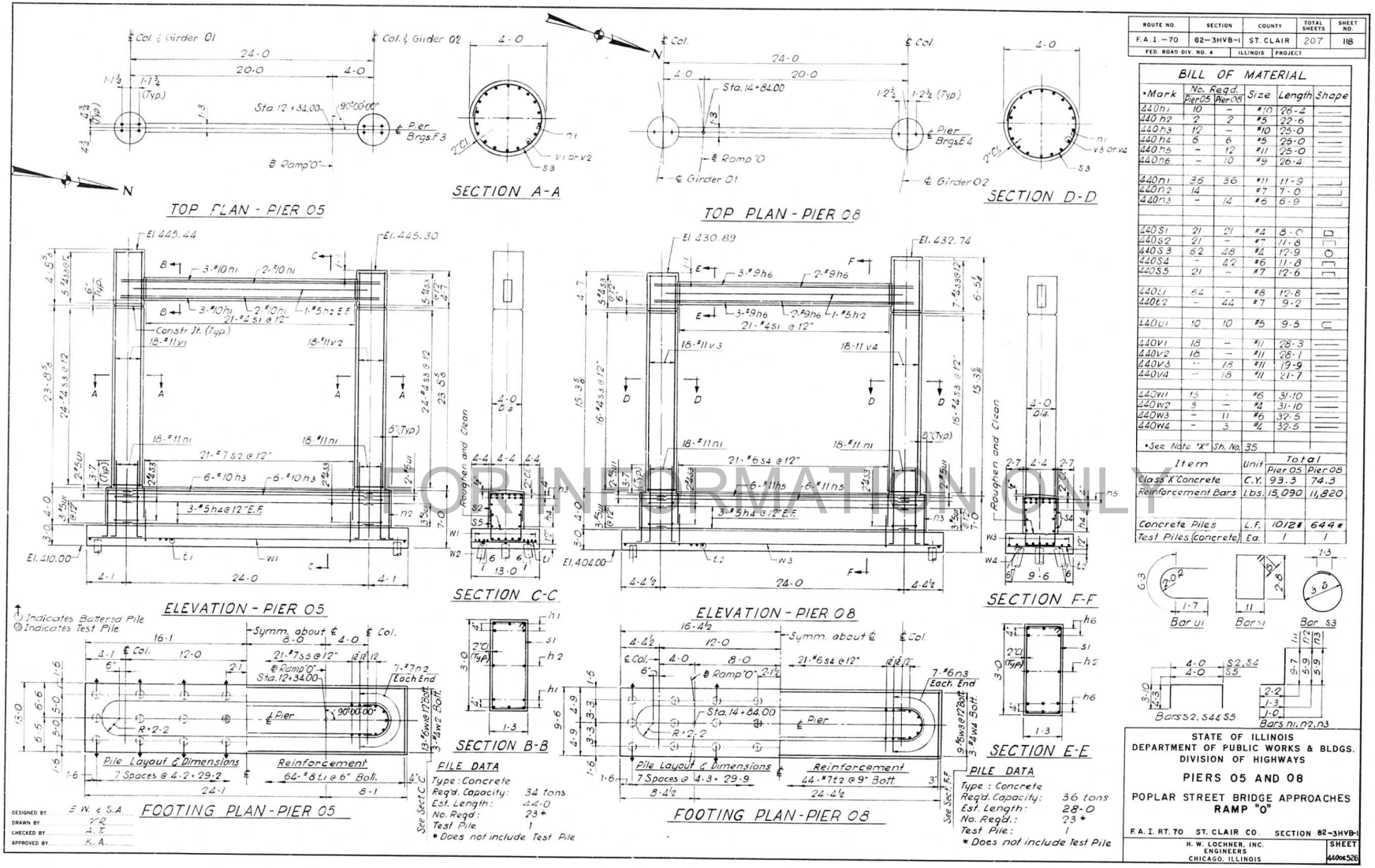
PIERS 03 AND 04

POPLAR STREET BRIDGE APPROACHES
RAMP "O"

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

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

SHEET 439 OF 526



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-1	ST. CLAIR	207	118
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

*Mark	No. Reqd. Pier 05	No. Reqd. Pier 08	Size	Length	Shape
440h1	10	–	#10	26-4	
440h2	2	2	#5	22-6	
440h3	12	–	#10	25-0	
440h4	6	6	#5	25-0	
440h5	–	12	#11	25-0	
440h6	–	10	#9	26-4	
440n1	36	36	#11	11-9	
440n2	14		#7	7-0	
440n3	–	14	#6	6-9	
440S1	21	21	#4	8-0	
440S2	21	–	#7	11-8	
440S3	62	48	#4	12-9	
440S4	–	42	#6	11-8	
440S5	21	–	#7	12-6	
440t1	64	–	#8	12-8	
440t2	–	44	#7	9-2	
440u1	10	10	#5	9-5	
440V1	18	–	#11	28-3	
440V2	16	–	#11	28-1	
440V3	"	18	#11	19-9	
440V4	"	16	#11	21-7	
440W1	15	–	#6	31-10	
440W2	9	–	#4	31-10	
440W3	–	11	#6	32-5	
440W4	–	3	#4	32-5	

*See Note "K" Sh. No. 35

Item	Unit	Total Pier 05	Total Pier 08
Class 'K' Concrete	C.Y.	93.3	74.3
Reinforcement Bars	Lbs.	13,090	11,820
Concrete Piles	L.F.	1012#	644#
Test Piles (Concrete)	Ea.	1	1

DESIGNED BY E.W. & S.A.
DRAWN BY T.R.
CHECKED BY A.T.
APPROVED BY K.A.

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

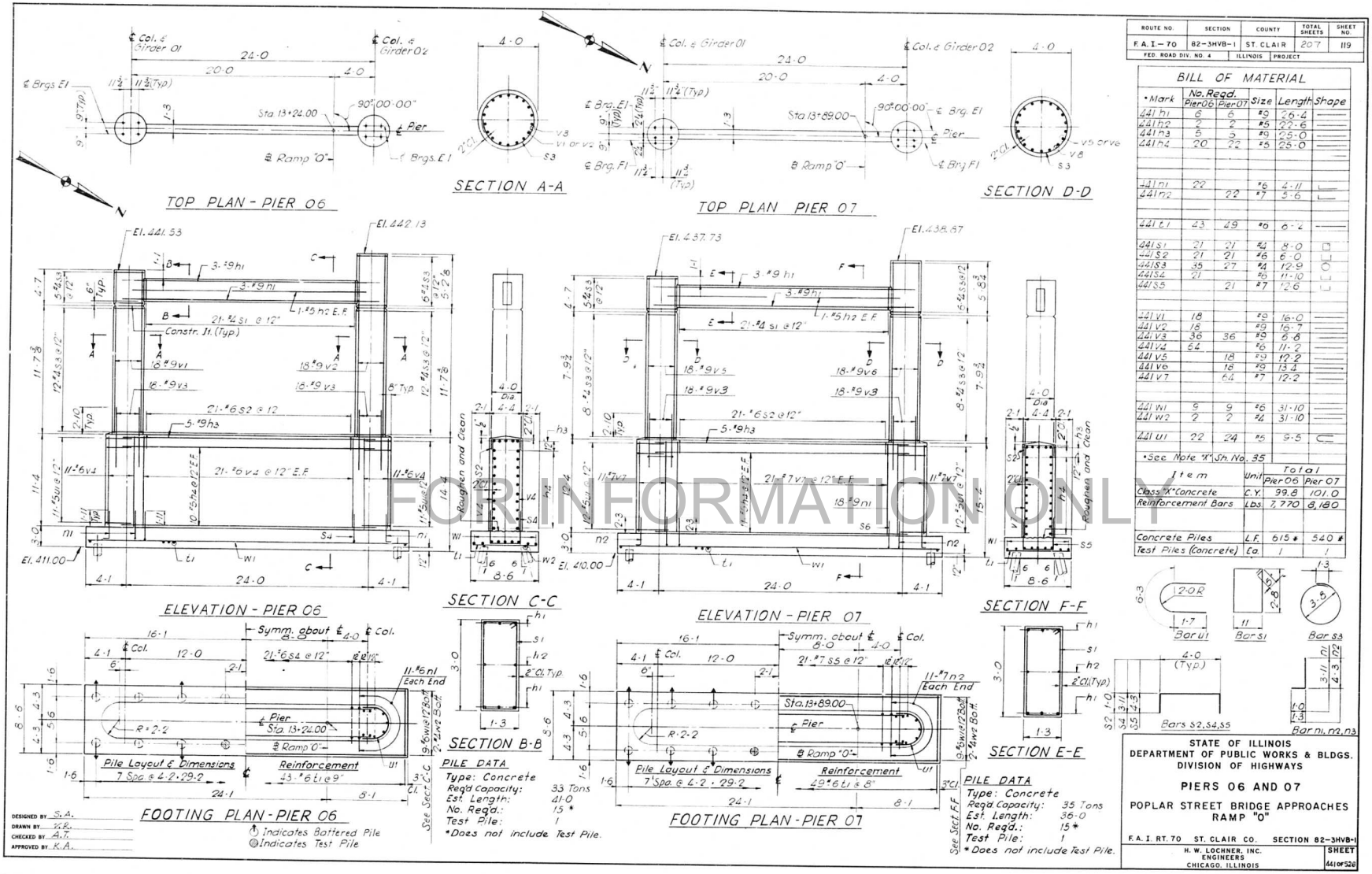
PIERS 05 AND 08

POPLAR STREET BRIDGE APPROACHES
RAMP "O"

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

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

SHEET 440m526



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-1	ST. CLAIR	207	119
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

*Mark	No. Reqd. Pier 06	No. Reqd. Pier 07	Size	Length	Shape
441 h1	6	6	#9	26-4	
441 h2	2	2	#5	22-6	
441 h3	5	5	#9	25-0	
441 h4	20	22	#5	25-0	
441 n1	22		#6	4-11	
441 n2		22	#7	5-6	
441 t1	43	49	#8	6-2	
441 s1	21	21	#4	8-0	
441 s2	21	21	#6	6-0	
441 s3	35	27	#4	12-9	
441 s4	21		#6	11-10	
441 s5		21	#7	12-6	
441 v1	18		#9	16-0	
441 v2	18		#8	16-7	
441 v3	36	36	#9	8-6	
441 v4	64		#6	11-2	
441 v5		18	#9	12-2	
441 v6		18	#9	13-4	
441 v7		64	#7	12-2	
441 w1	9	9	#6	31-10	
441 w2	2	2	#4	31-10	
441 u1	22	24	#6	9-5	

*See Note "K" Sh. No. 35

Item	Unit	Total Pier 06	Total Pier 07
Class "K" Concrete	C.Y.	99.8	101.0
Reinforcement Bars	Lbs.	7,770	8,180
Concrete Piles	L.F.	615 *	540 *
Test Piles (Concrete)	Ea.	1	1

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

PIERS 06 AND 07

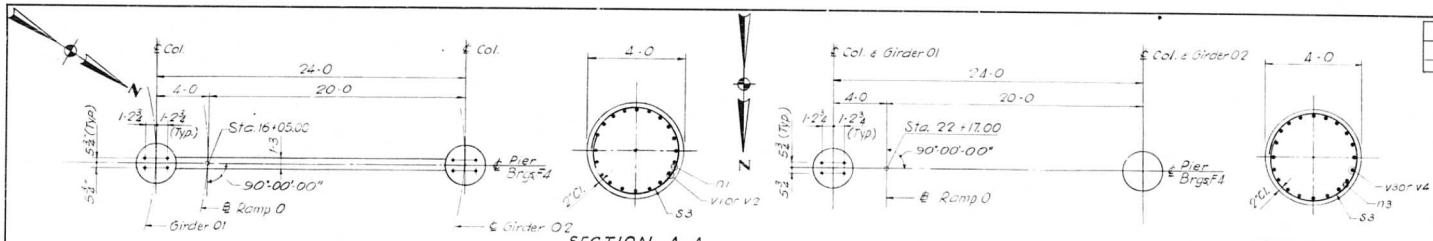
POPLAR STREET BRIDGE APPROACHES
RAMP "O"

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

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

SHEET 441 OF 526

DESIGNED BY S.A.
DRAWN BY K.R.
CHECKED BY A.T.
APPROVED BY K.A.



TOP PLAN - PIER 09

SECTION A-A

TOP PLAN - PIER 012

SECTION D-D

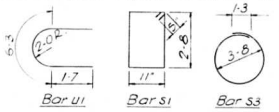
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I—70	82—3HVB—1	ST. CLAIR	207	120
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

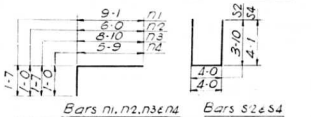
BILL OF MATERIAL

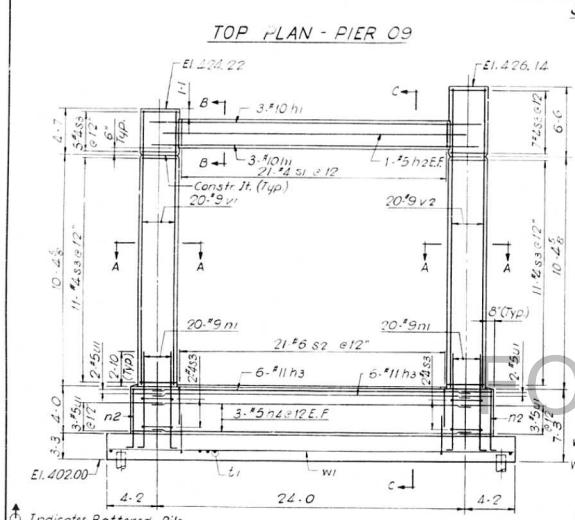
*Mark	No. Reqd. Pier 09	No. Reqd. Pier 012	Size	Length	Shape
442 h1	6		#10	25-4	
442 h2	2		#5	22-6	
442 h3	12	12	#11	25-0	
442 h4	6	6	#5	25-0	
442 n1	40		#9	10-8	
442 n2	14		#6	7-0	
442 n3		40	#9	10-5	
442 n4		14	#6	6-9	
442 S1	21		#4	8-0	
442 S2	21	42	#6	11-8	
442 S3	38	27	#4	12-9	
442 S4	21		#6	12-2	
442 t1	55		#6	9-8	
442 t2		44	#7	7-8	
442 U1	10	10	#5	9-5	
442 V1	20		#9	14-10	
442 V2	20		#9	16-8	
442 V3		20	#9	10-5	
442 V4		20	#9	11-1	
442 W1	11		#6	32-0	
442 W2	3		#4	32-0	
442 W3		9	#6	32-8	
442 W4		2	#4	32-8	

*See Note "K" Sh. No. 35

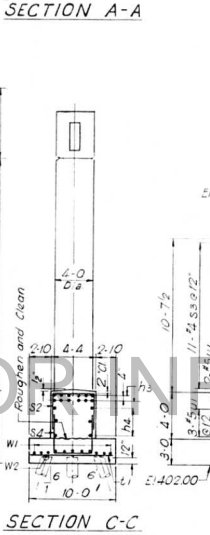
Item	Unit	Total Pier 09	Total Pier 012
Class 'K' Concrete	C.Y.	74.0	57.2
Reinforcement Bars	Lbs.	8,890	7,010
Concrete Piles	L.F.	1040*	741*
Test Piles (concrete)	Ea.	1	1



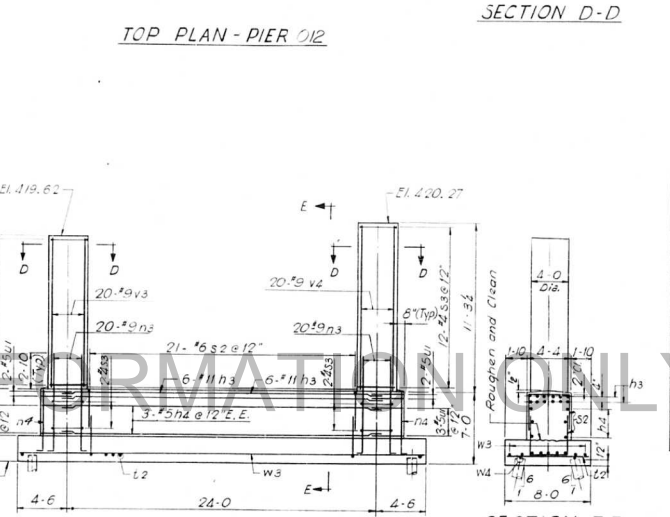




ELEVATION - PIER 09

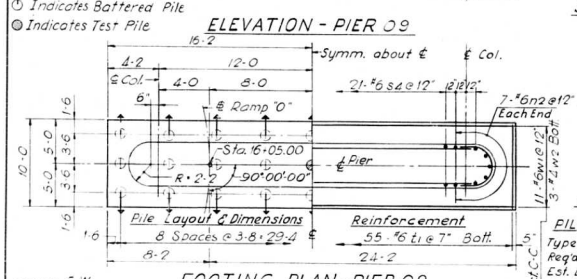


SECTION C-C

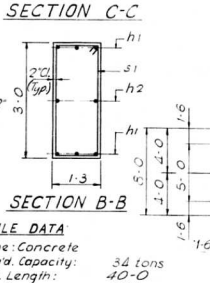


ELEVATION - PIER 012

SECTION E-E



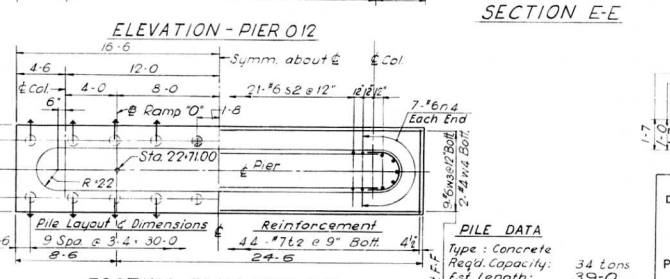
FOOTING PLAN - PIER 09



SECTION B-B

PILE DATA
Type: Concrete
Reqd. Capacity: 34 tons
Est. Length: 40-0
No. Reqd: 26*
Test Pile 1
* Does not include Test Pile

See Sect C-C



FOOTING PLAN - PIER 012

PILE DATA
Type: Concrete
Reqd. Capacity: 34 tons
Est. Length: 39-0
No. Reqd.: 19*
Test Pile: 1
* Does not include Test Pile

See Sect F-F

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

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

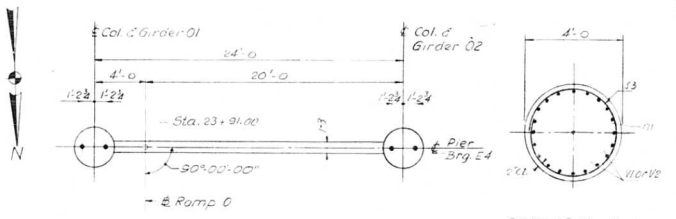
PIERS 09 AND 012

POPLAR STREET BRIDGE APPROACHES
RAMP "O"

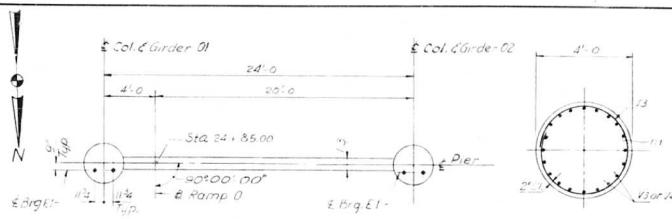
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-1

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

SHEET 442 of 526

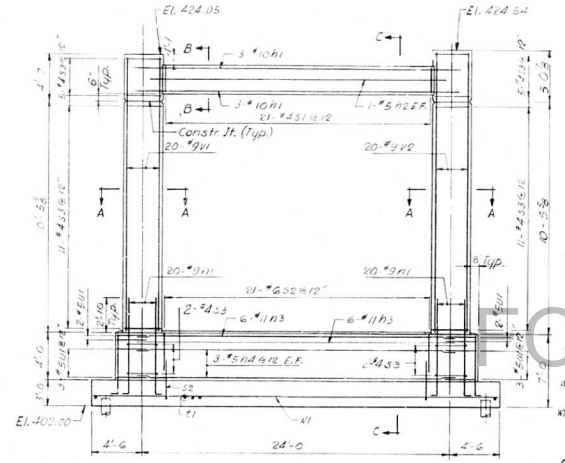


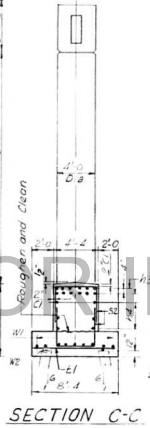
SECTION A-A



SECTION D-D

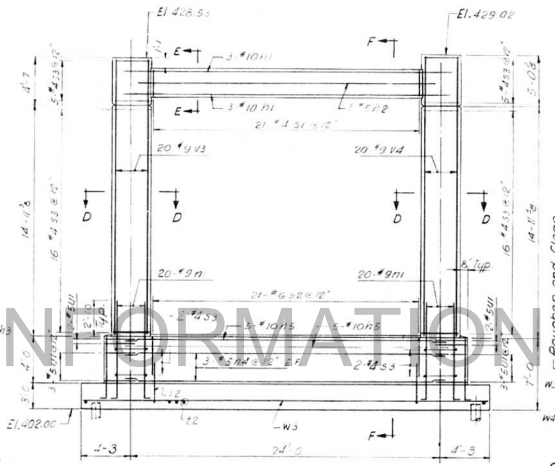
TOP PLAN - PIER 013

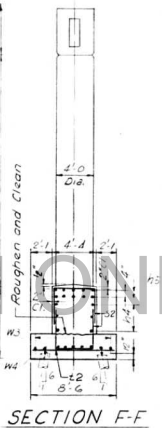




SECTION C-C

TOP PLAN - PIER 014

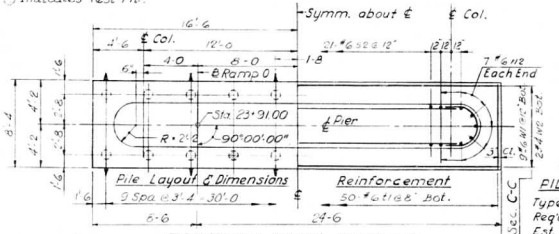




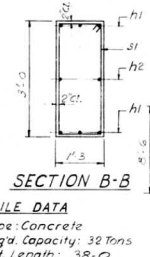
SECTION F-F

Indicates Battered Pile
Indicates Test Pile

ELEVATION - PIER 013



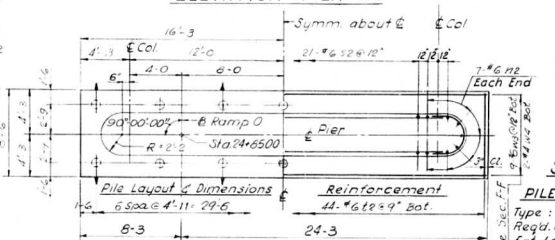
FOOTING PLAN - PIER 013



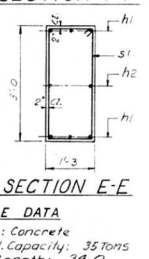
SECTION B-B

PILE DATA
Type: Concrete
Reqd. Capacity: 32 Tons
Est. Length: 38'-0
No. Reqd.: 19*
Test Pile: 1
* Does not include Test Pile

ELEVATION - PIER 014

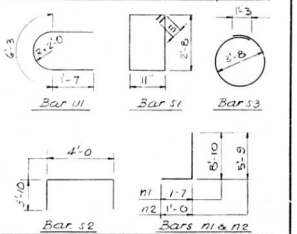


FOOTING PLAN - PIER 014



SECTION E-E

PILE DATA
Type: Concrete
Reqd. Capacity: 35 Tons
Est. Length: 34'-0
No. Reqd.: 13*
Test Pile: 1
* Does not include Test Pile



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I – 70	82–3HVB–1	ST. CLAIR	207	121
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

*Mark	No. Reqd. Pier 013	No. Reqd. Pier 014	Size	Length	Shape
443 n1	6	6	# 10	26'-4	
443 n2	2	2	# 5	22'-6	
443 n3	12	-	# 11	25'-0	
443 n4	6	6	# 5	25'-0	
443 n5	-	10	# 10	25'-0	
443 n1	40	40	# 9	10'-6	L
443 n2	14	14	# 6	6'-9	L
443 s1	21	21	# 4	8'-0	
443 s2	40	40	# 6	17'-8	
443 s3	36	46	# 4	12'-9	O
443 :1	30	-	# 6	8'-0	
443 :2	-	22	# 6	8'-2	
443 01	10	10	# 5	9'-5	C
443 v1	20	-	# 9	14'-10	
443 v2	20	-	# 9	15'-4	
443 v3		20	# 9	14'-4	
443 v4		20	# 9	14'-10	
443 w1	8	-	# 6	30'-4	
443 w2	2	-	# 4	32'-8	
443 w3		8	# 6	32'-8	
443 w4	-	2	# 4	32'-2	

*See Note "K" Sh. No. 35

Item	Unit	Total Pier 013	Total Pier 014
Class 'K' Concrete	C.Y.	65.3	69.6
Reinforcement Bars	Lbs.	8,430	8,540
Concrete Piles	L.F.	722*	442*
Test Piles (concrete)	Ea.	1	1

DESIGNED BY E.W.
DRAWN BY A.B.
CHECKED BY A.T.
APPROVED BY K.A.

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

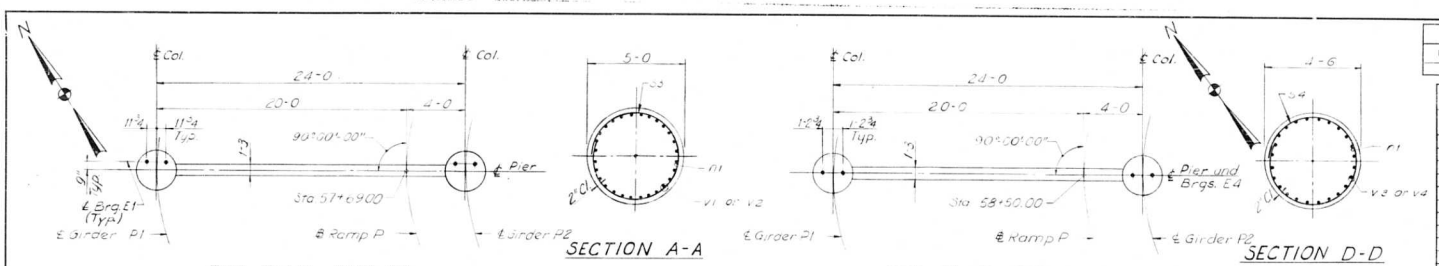
PIERS 013 AND 014

POPLAR STREET BRIDGE APPROACHES
RAMP "O"

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

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

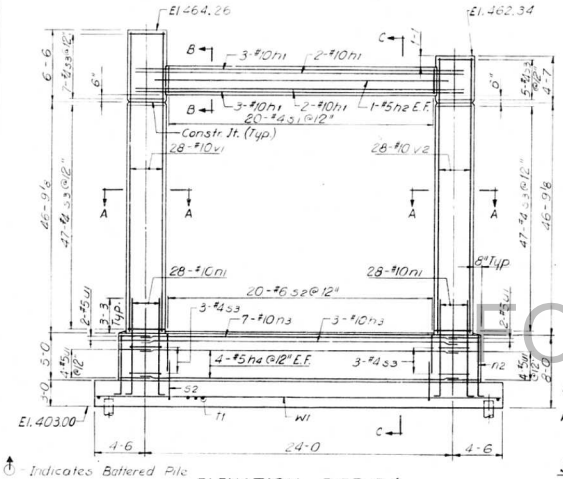
SHEET 443 OF 526



SECTION A-A

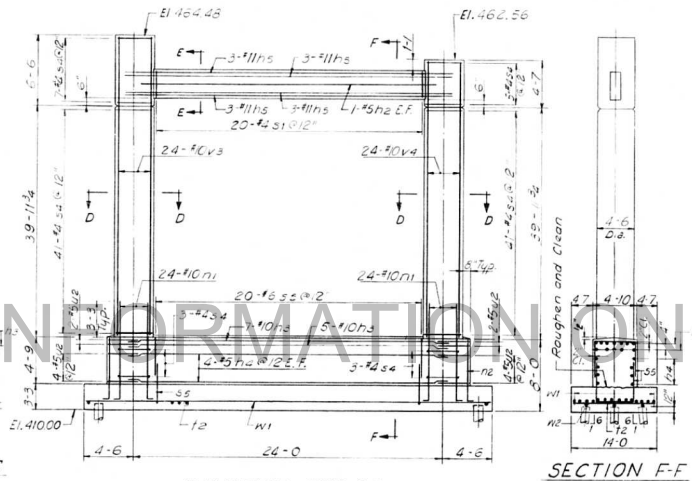
SECTION D-D

TOP PLAN - PIER P4



SECTION C-C

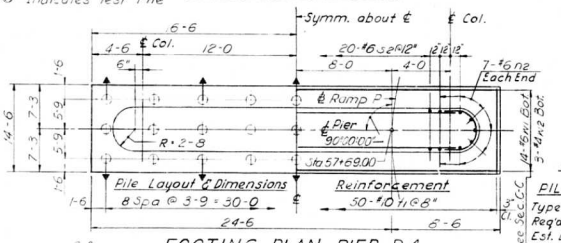
TOP PLAN - PIER P5



SECTION F-F

Indicates Battered Pile
Indicates Test Pile

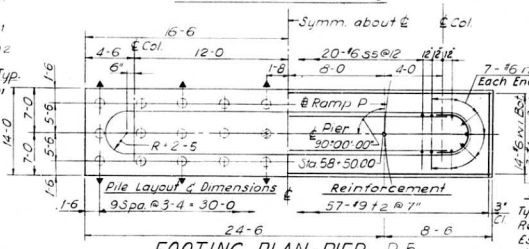
ELEVATION - PIER P4



FOOTING PLAN - PIER P4

SECTION B-B

ELEVATION - PIER P5



FOOTING PLAN - PIER P5

SECTION E-E

PILE DATA
Type: Concrete
Req'd. Capacity: 35 T.
Est. Length: 47-0
No. Req'd: 26 *
Test Pile 1
* Does not include Test Pile

PILE DATA
Type: Concrete
Req'd. Capacity: 34 T.
Est. Length: 48-0
No. Req'd.: 29 *
Test Pile: 1
* Does not include Test Pile

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

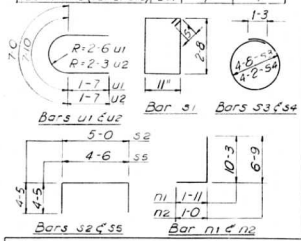
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. — 70	82-3HVB-1	ST. CLAIR	207	122
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

*Mark	No. Req'd. Per P4	No. Req'd. Per P5	Size	Length	Shape
444 h1	10	-	# 10	26-4	
444 h2	2	2	# 5	22-6	
444 h3	10	12	# 10	25-0	
444 h4	8	8	# 5	25-0	
444 h5	-	12	# 11	26-4	
444 n1	56	48	# 10	12-2	
444 n2	14	14	# 6	7-9	
444 s1	20	20	# 4	5-0	
444 s2	40	-	# 6	13-10	
444 s3	112	-	# 4	15-11	
444 s4	-	100	# 4	14-4	
444 s5	-	40	# 6	13-4	
444 t1	60	-	# 10	14-2	
444 t2	-	57	# 9	13-8	
444 u1	12	-	# 5	11-0	
444 u2	-	12	# 5	10-2	
444 v1	28	-	# 10	53-1	
444 v2	28	-	# 10	51-2	
444 v3	-	24	# 10	46-3	
444 v4	-	24	# 10	44-4	
444 w1	14	14	# 6	32-8	
444 w2	3	3	# 4	32-8	

*Sec. Note "X" Sh. No. 35

Item	Unit	Total Pier P4	Total Pier P5
Class 'X' Concrete	C.Y.	159.9	135.5
Reinforcement Bars	Lbs.	24,190	20,650
Concrete Piles	L.F.	1222 *	1392 *
Test Piles (concrete)	Ea.	1	1



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

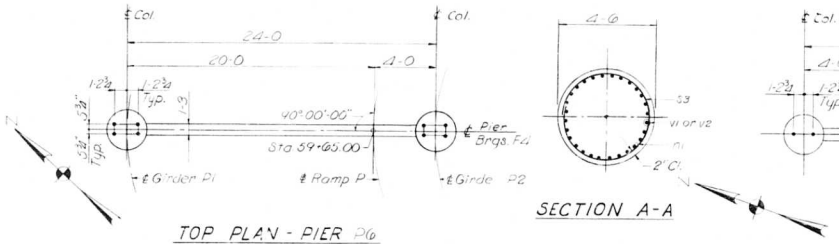
PIERS P4 AND P5

POPLAR STREET BRIDGE APPROACHES
RAMP "P"

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

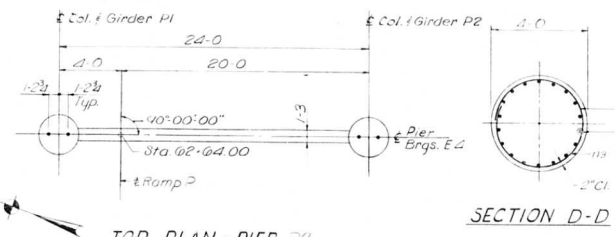
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 444 or 526



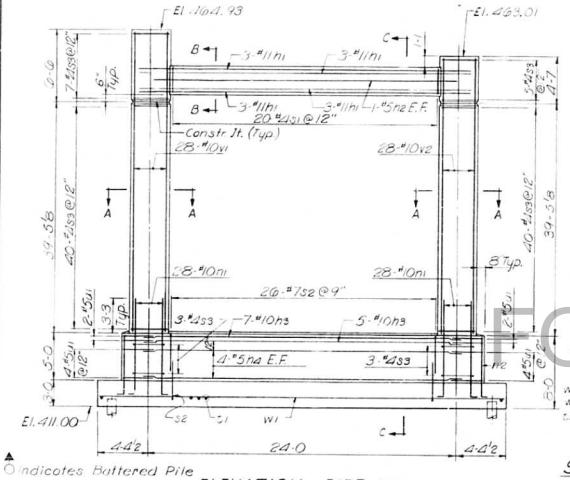
TOP PLAN - PIER P6

SECTION A-A

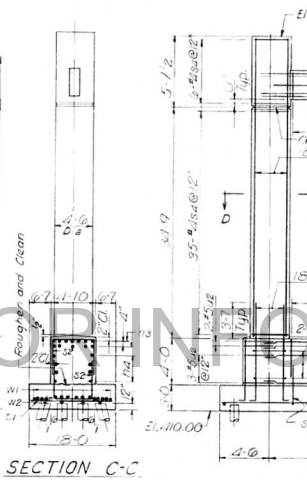


TOP PLAN - PIER P9

SECTION D-D



ELEVATION - PIER P6

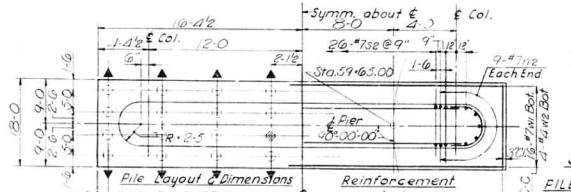


SECTION C-C

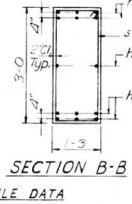
ELEVATION - PIER P9

SECTION F-F

▲ Indicates Battered Pile
◎ Indicates Test Pile



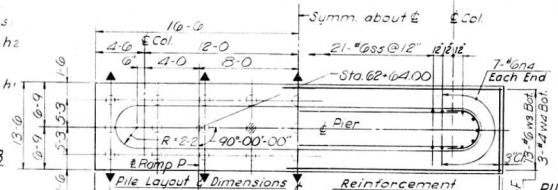
FOOTING PLAN - PIER P6



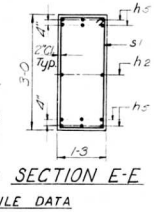
SECTION B-B

FILE DATA
Type: Concrete
Reqd. Capacity: 35 Ton
Est. Length: 47-0
No. Reqd.: 31 *
Test Pile: 1
* Does not include Test Pile

See Section C-C



FOOTING PLAN - PIER P9



SECTION E-E

FILE DATA
Type: Concrete
Reqd. Capacity: 33 Ton
Est. Length: 37-0
No. Reqd.: 26 *
Test Pile: 1
* Does not include Test Pile

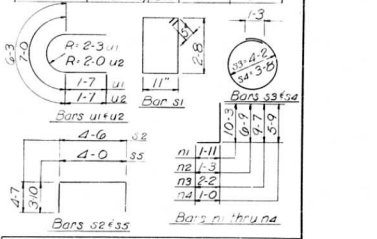
See Section F-F

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I – 70	82-3HVB-1	ST. CLAIR	207	123
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

BILL OF MATERIAL

*Mark	No. Reqd. Pier P6	No. Reqd. Pier P9	Size	Length	Shape
445 n1	12	—	#11	26-4	
445 n2	2	2	#5	22-6	
445 n3	2	—	#10	25-0	
445 n4	8	6	#3	25-0	
445 n5	—	12	#10	26-4	
445 n6	—	12	#11	25-0	
445 n1	56	—	#10	12-2	
445 n2	18	—	#7	8-0	
445 n3	—	36	#11	11-9	
445 n4	—	14	#6	6-9	
445 s1	20	21	#4	8-0	
445 s2	32	—	#7	13-8	
445 s3	98	—	#4	12-1	
445 s4	—	35	#4	12-9	
445 s5	—	42	#6	11-8	
445 t1	65	—	#11	17-8	
445 t2	—	57	#9	13-2	
445 u1	2	—	#5	10-2	
445 u2	—	10	#5	9-5	
445 v1	28	—	#10	45-9	
445 v2	28	—	#10	43-10	
445 v3	—	18	#11	40-2	
445 v4	—	18	#11	34-2	
445 w1	16	—	#7	32-5	
445 w2	4	—	#4	32-5	
445 w3	—	13	#6	32-8	
445 w4	—	3	#4	32-8	
*See Note "X"	Sh. No.	35			

Item	Unit	Total Pier P6	Total Pier P9
Class 'X' Concrete	C.Y.	146.0	106.8
Reinforcement Bars	Lbs.	27,120	18,060
Concrete Piles	L.F.	1457 *	962 *
Test Piles (concrete)	Ea.	1	1



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

PIERS P6 AND P9

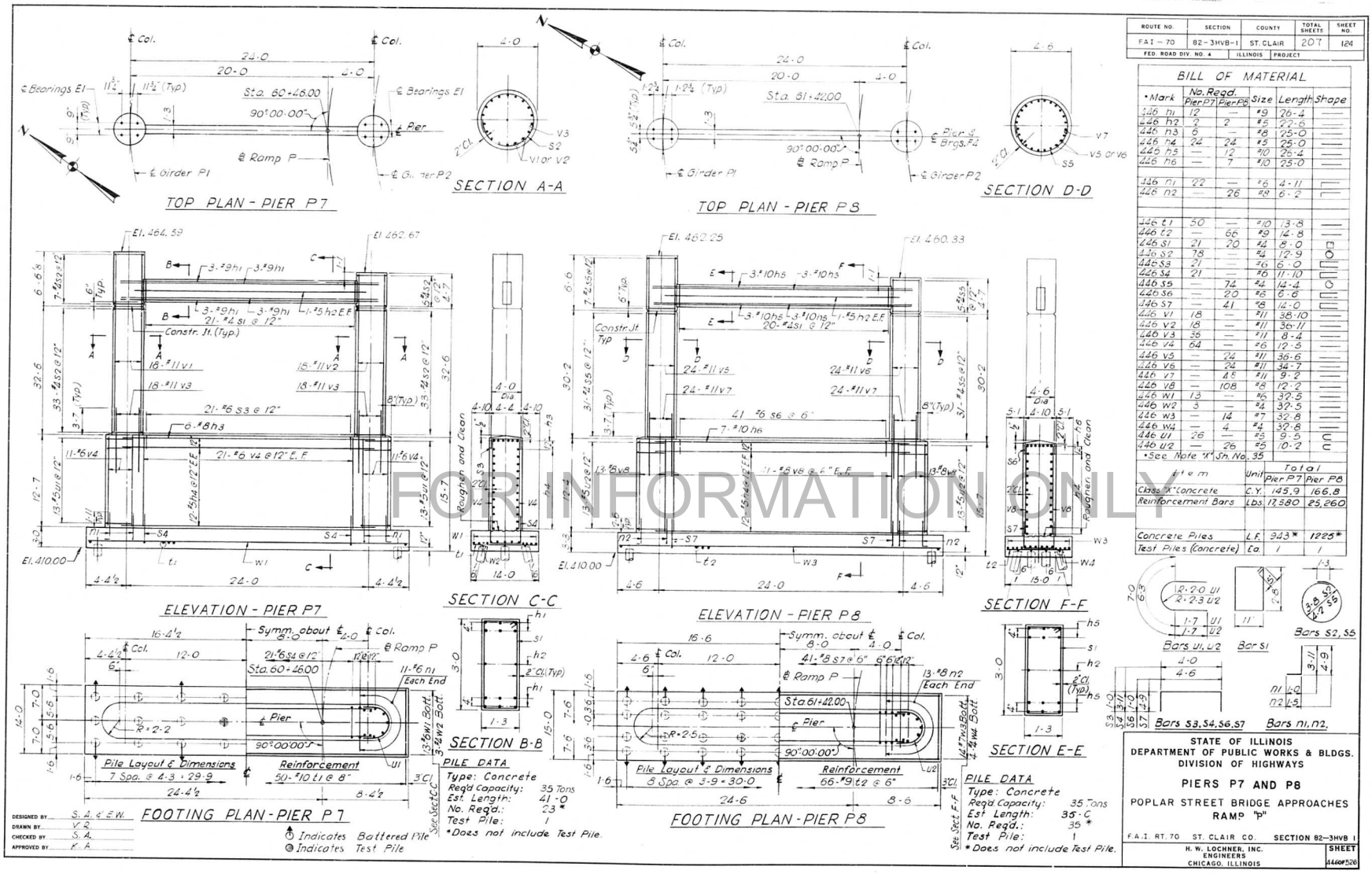
POPLAR STREET BRIDGE APPROACHES
RAMP "P"

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

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

SHEET 445 of 526

DESIGNED BY G.A. & E.W.
DRAWN BY Hamilton
CHECKED BY E.W.
APPROVED BY K.A.



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI – 70	82-3HVB-1	ST. CLAIR	207	124
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

*Mark	No. Reqd. Pier P7	No. Reqd. Pier P8	Size	Length	Shape
446 h1	12	—	#9	26-4	
446 h2	2	2	#5	22-6	
446 h3	6	—	#8	15-0	
446 h4	24	24	#5	26-0	
446 h5	—	12	#10	26-4	
446 h6	—	7	#10	25-0	
446 n1	22	—	#6	4-11	
446 n2	—	26	#8	6-2	
446 t1	50	—	#10	13-8	
446 t2	—	66	#9	14-8	
446 S1	21	20	#4	8-0	
446 S2	78	—	#4	12-9	
446 S3	21	—	#6	6-0	
446 S4	21	—	#6	11-10	
446 S5	—	74	#4	14-4	
446 S6	—	20	#6	6-6	
446 S7	—	41	#6	14-0	
446 V1	18	—	#11	38-10	
446 V2	18	—	#11	36-11	
446 V3	36	—	#11	8-4	
446 V4	64	—	#6	12-5	
446 V5	—	24	#11	36-6	
446 V6	—	24	#11	34-7	
446 V7	—	48	#11	9-2	
446 V8	—	108	#8	12-2	
446 W1	13	—	#6	32-5	
446 W2	3	—	#4	32-5	
446 W3	—	14	#7	32-8	
446 W4	—	4	#4	32-8	
446 U1	26	—	#5	9-5	
446 U2	—	26	#5	10-2	

*See Note "X" Sh. No. 35

Item	Unit	Total Pier P7	Total Pier P8
Class "X" Concrete	C.Y.	145.9	166.8
Reinforcement Bars	Lbs.	17,580	25,260
Concrete Piles	L.F.	943*	1225*
Test Piles (Concrete)	Ea.	1	1

DESIGNED BY S. A. & E. W.
DRAWN BY V. Z.
CHECKED BY S. A.
APPROVED BY K. A.

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

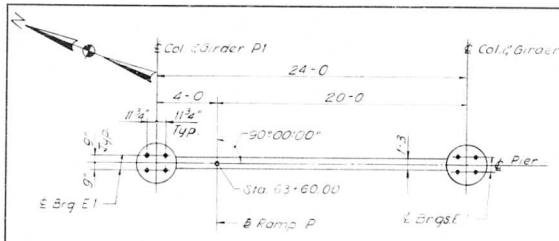
PIERS P7 AND P8

POPLAR STREET BRIDGE APPROACHES
RAMP "P"

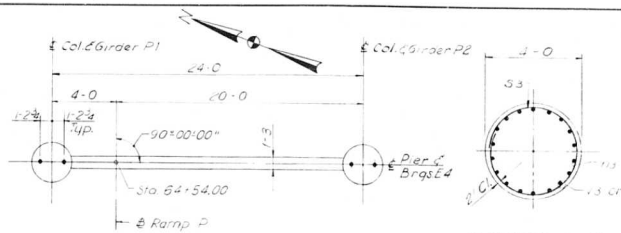
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB I

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

SHEET 446 of 526

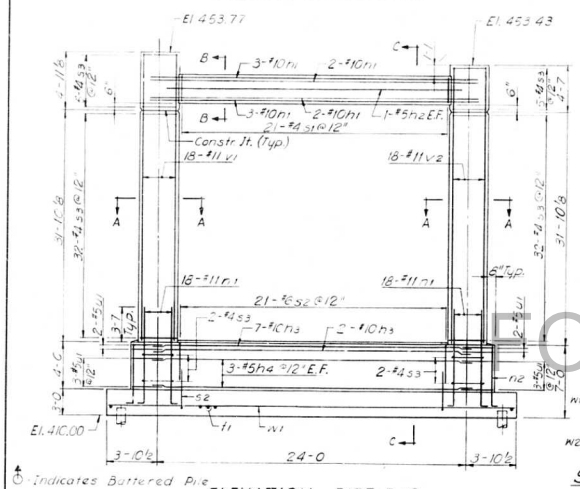


SECTION A-A

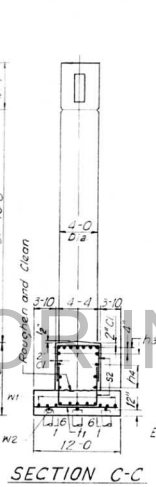


SECTION D-D

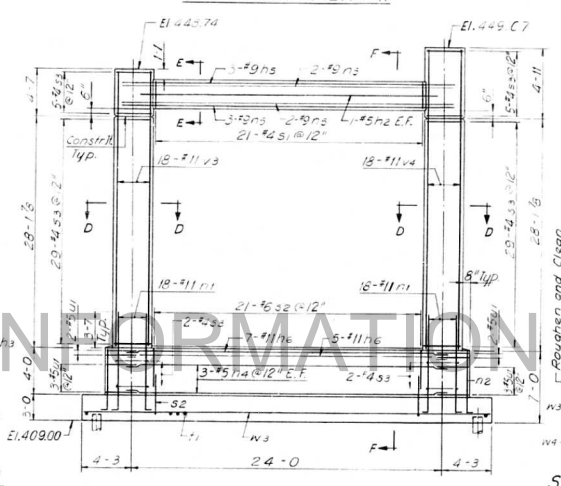
TOP PLAN - PIER P10



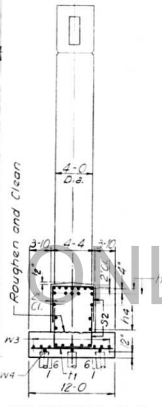
SECTION C-C



TOP PLAN - PIER P11

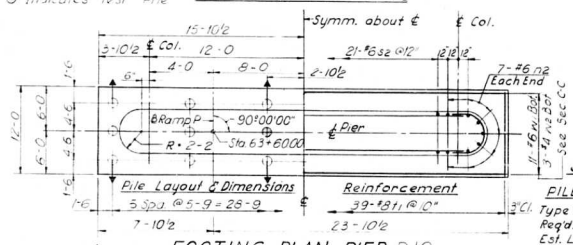


SECTION F-F

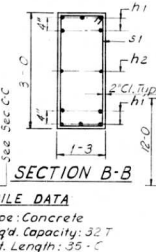


○ Indicates Buttered Pile
○ Indicates Test Pile

ELEVATION - PIER P10

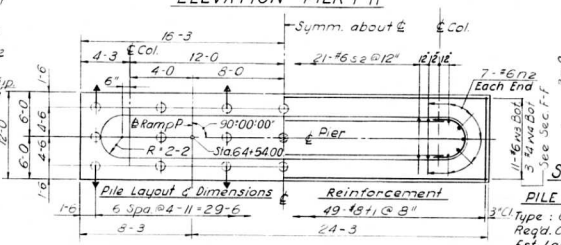


SECTION B-B

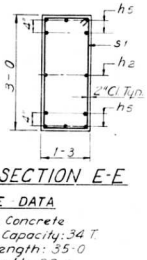


PILE DATA
Type: Concrete
Req'd. Capacity: 32 T
Est. Length: 35'-0
No. Req'd.: 17 *
Test Pile: 1
* Does not include Test Pile

ELEVATION - PIER P11



SECTION E-E



PILE DATA
Type: Concrete
Req'd. Capacity: 34 T
Est. Length: 35'-0
No. Req'd.: 20 *
Test Pile: 1
* Does not include Test Pile

FOOTING PLAN - PIER P10

FOOTING PLAN - PIER P11

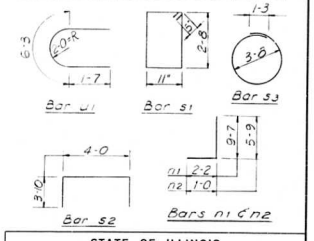
DESIGNED BY S.A.
DRAWN BY I.M.
CHECKED BY F.W.
APPROVED BY K.A.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. – 70	82-3HVB-1	ST. CLAIR	207	125
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

BILL OF MATERIAL

Mark	No. Req'd. Pier P10	No. Req'd. Pier P11	Size	Length	Shape
447 n	0	–	# 10	26 - 4	
447 n2	2	2	# 5	22 - 6	
447 n3	9	–	# 10	25 - 0	
447 n4	6	6	# 5	25 - 0	
447 n5	–	10	# 9	26 - 4	
447 n6	–	12	# 11	25 - 0	
447 n1	36	36	# 11	11 - 9	
447 n2	14	14	# 6	6 - 9	
447 s1	21	21	# 4	8 - 0	
447 s2	42	42	# 6	11 - 9	
447 s3	78	72	# 4	12 - 9	
447 f1	39	49	# 8	11 - 8	
447 u1	10	10	# 5	9 - 5	
447 v1	18	–	# 11	36 - 7	
447 v2	18	–	# 11	36 - 3	
447 v3	–	18	# 11	32 - 7	
447 v4	–	18	# 11	32 - 11	
447 m1	11	–	# 6	31 - 5	
447 m2	3	–	# 4	31 - 5	
447 m3	–	11	# 6	32 - 2	
447 m4	–	3	# 4	32 - 2	
* See Note "X"	Sh. No.	35			

Item	Unit	Total Pier P10	Total Pier P11
Class 'X' Concrete	C.Y.	96.9	94.3
Reinforcement Bars	Lbs.	15,070	15,030
Concrete Piles	L.F.	595 *	700 *
Test Piles (Concrete)	Ea.	1	1



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

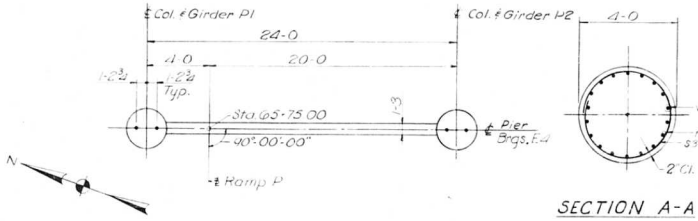
PIERS P10 AND P11

POPLAR STREET BRIDGE APPROACHES
RAMP "P"

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

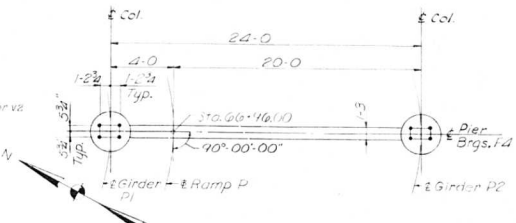
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

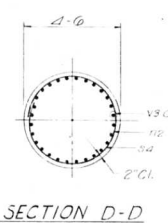
SHEET 447 of 526



SECTION A-A

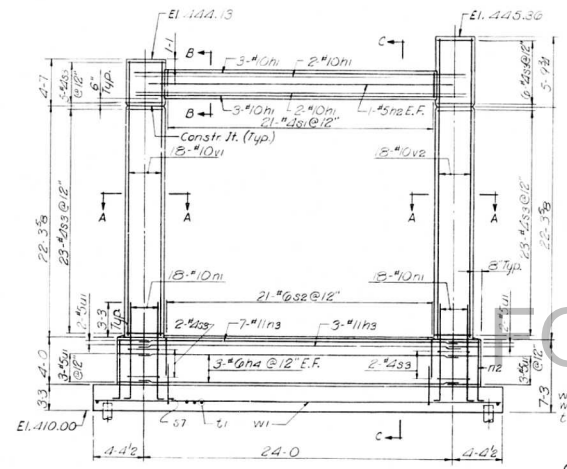
TOP PLAN - PIER P12

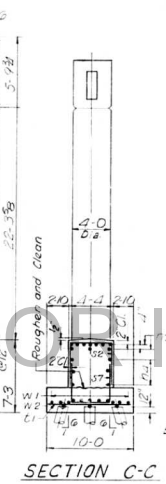




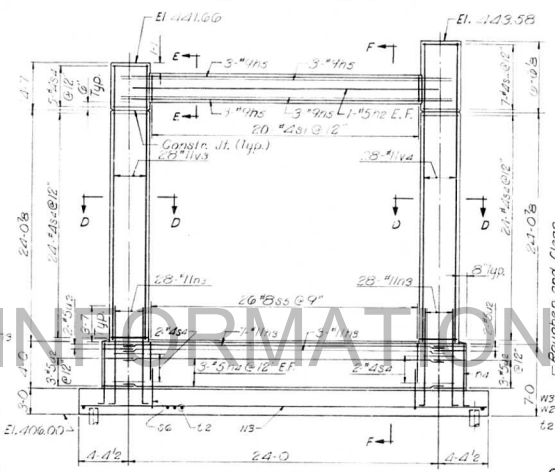
SECTION D-D

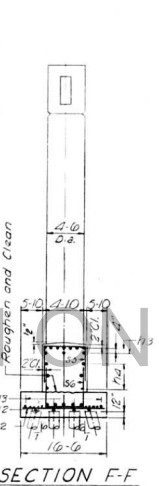
TOP PLAN - PIER P13





SECTION C-C

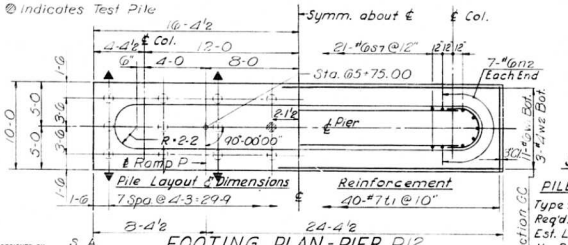




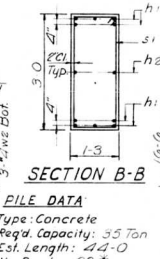
SECTION F-F

▲ Indicates Battered Pile
◎ Indicates Test Pile

ELEVATION - PIER P12



FOOTING PLAN - PIER P12

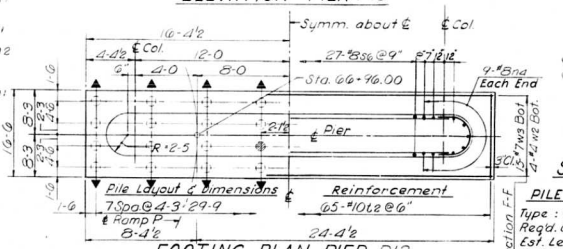


SECTION B-B

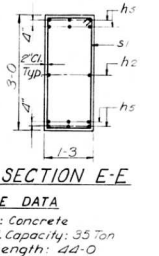
PILE DATA
Type: Concrete
Req'd. Capacity: 35 Ton
Est. Length: 44'-0
No. Req'd: 23 *
Test Pile 1
* Does not include Test Pile

See Section GG

ELEVATION - PIER P13



FOOTING PLAN - PIER P13



SECTION E-E

PILE DATA
Type: Concrete
Req'd. Capacity: 35 Ton
Est. Length: 44'-0
No. Req'd.: 31 *
Test Pile: 1
* Does not include Test Pile

See Section FF

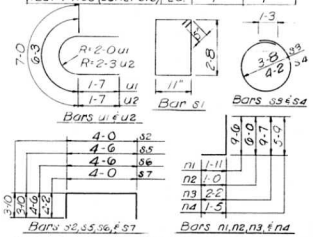
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. – 70	82–3HVB–1	ST. CLAIR	207	126
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

BILL OF MATERIAL

*Mark	No. Req'd. Pier P12	No. Req'd. Pier P13	Size	Length	Shape
448 n1	10	—	#10	26-4	—
448 n2	2	2	#6	22-6	—
448 n3	10	10	#11	25-0	—
448 n4	6	6	#5	25-0	—
448 n5	—	2	#9	26-4	—
448 n1	36	—	#10	11-5	L
448 n2	14	—	#6	7-0	L
448 n3	—	56	#11	11-9	L
448 n4	—	18	#8	7-2	L
448 S1	21	20	#4	8-0	⊐
448 S2	21	—	#6	11-8	⊐
448 S3	61	—	#4	12-9	⊐
448 S4	—	64	#4	14-4	⊐
448 S5	—	27	#8	12-2	⊐
448 S6	—	27	#8	15-6	⊐
448 S7	21	—	#6	12-4	⊐
448 t1	40	—	#7	9-8	—
448 t2	—	65	#10	16-2	—
448 U1	10	—	#5	9-5	⊂
448 U2	—	10	#5	10-2	⊂
448 V1	18	—	#10	26-8	—
448 V2	18	—	#10	27-11	—
448 V3	—	28	#11	28-6	—
448 V4	—	28	#11	30-5	—
448 W1	11	—	#6	32-5	—
448 W2	3	4	#4	32-5	—
448 W3	—	12	#7	32-5	—

*See Note "X" Sh. No. 35

Item	Unit	Total Pier P12	Total Pier P13
Class 'X' Concrete	C.Y.	88.3	117.3
Reinforcement Bars	Lbs.	11,690	23,490
Concrete Piles	L.F.	1012 *	1364 *
Test Piles (Concrete)	Ea.	1	1



DESIGNED BY S. A.
DRAWN BY Hamilton
CHECKED BY E. W.
APPROVED BY K. A

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

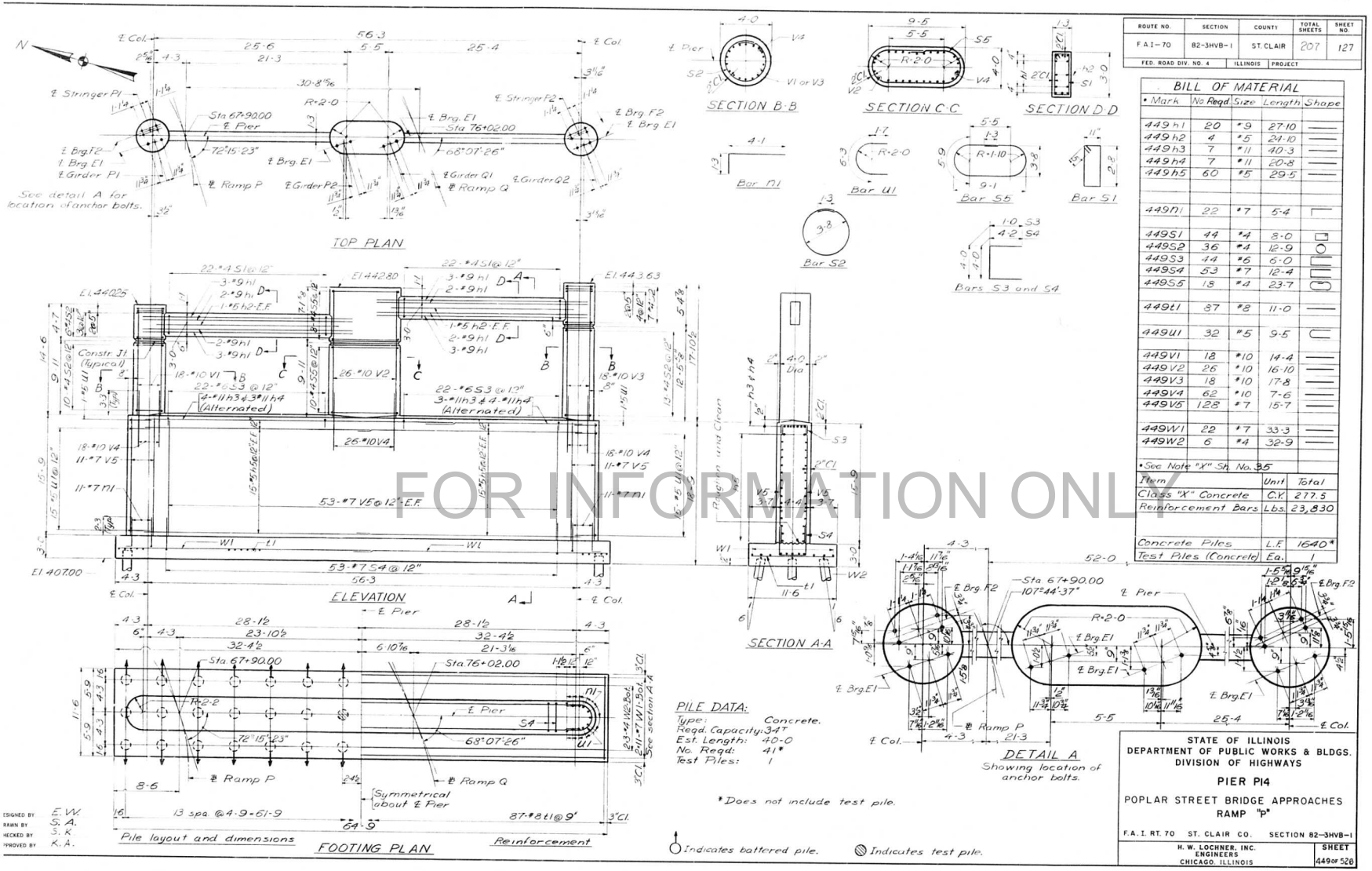
PIERS P12 AND P13

POPLAR STREET BRIDGE APPROACHES
RAMP "P"

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

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

SHEET 448 of 526



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.–70	82-3HVB-1	ST. CLAIR	207	127
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

• Mark	No. Reqd	Size	Length	Shape
449h1	20	#9	27-10	
449h2	4	#5	24-10	
449h3	7	#11	40-3	
449h4	7	#11	20-8	
449h5	60	#5	29-5	
449M1	22	#7	5-4	
449S1	44	#4	8-0	
449S2	36	#4	12-9	
449S3	44	#6	6-0	
449S4	53	#7	12-4	
449S5	18	#4	23-7	
449U1	87	#8	11-0	
449U1	32	#5	9-5	
449V1	18	#10	14-4	
449V2	26	#10	16-10	
449V3	18	#10	17-8	
449V4	62	#10	7-6	
449V5	128	#7	15-7	
449W1	22	#7	33-3	
449W2	6	#4	32-9	

• See Note "X" Sh. No. 35

Item	Unit	Total
Class "X" Concrete	C.Y.	277.5
Reinforcement Bars	Lbs.	23,830
Concrete Piles	L.F.	1640*
Test Piles (Concrete)	Ea.	1

PILE DATA:
Type: Concrete.
Reqd. Capacity: 34T
Est. Length: 40-0
No. Reqd: 41*
Test Piles: 1

*Does not include test pile.

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

PIER P14

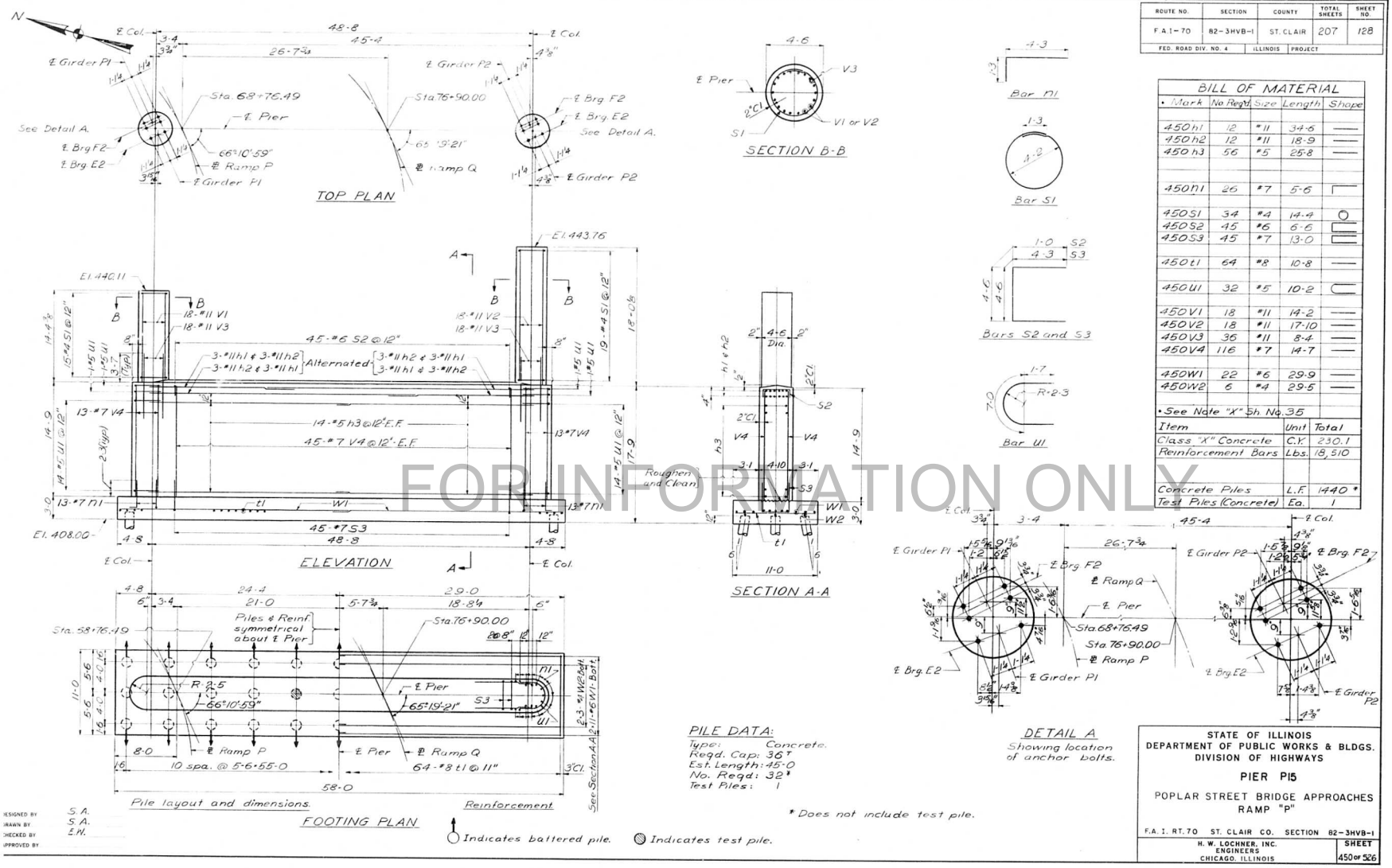
POPLAR STREET BRIDGE APPROACHES
RAMP "P"

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

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

SHEET 449 OF 520

DESIGNED BY E.W.
DRAWN BY S.A.
CHECKED BY S.K.
APPROVED BY K.A.



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I-70	82-3HVB-1	ST. CLAIR	207	128
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

Mark	No. Reqd.	Size	Length	Shape
450h1	12	#11	34-6	—
450h2	12	#11	18-9	—
450h3	56	#5	25-8	—
450m1	26	#7	5-6	⌐
450S1	34	#4	14-4	○
450S2	45	#6	6-6	▭
450S3	45	#7	13-0	▭
450t1	64	#8	10-8	—
450U1	32	#5	10-2	⊃
450V1	18	#11	14-2	—
450V2	18	#11	17-10	—
450V3	36	#11	8-4	—
450V4	116	#7	14-7	—
450W1	22	#6	29-9	—
450W2	6	#4	29-5	—
• See Note "X" Sh. No. 35				

Item	Unit	Total
Class "X" Concrete	C.Y.	230.1
Reinforcement Bars	Lbs.	18,510
Concrete Piles	L.F.	1440 *
Test Piles (Concrete)	Ea.	1

PILE DATA:
Type: Concrete.
Reqd. Cap: 36 T
Est. Length: 45-0
No. Reqd: 32*
Test Piles: 1

* Does not include test pile.

DESIGNED BY S.A.
DRAWN BY S.A.
CHECKED BY E.M.
APPROVED BY

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

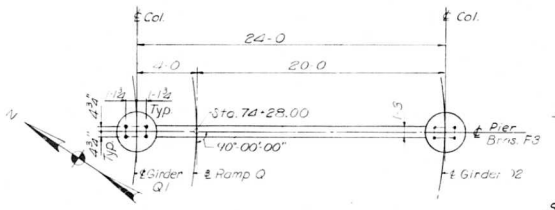
PIER P15

POPLAR STREET BRIDGE APPROACHES
RAMP "P"

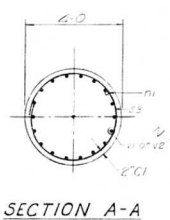
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-1

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

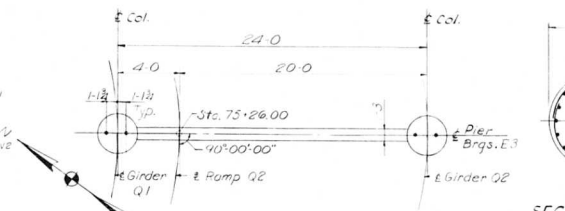
SHEET 450 OF 526



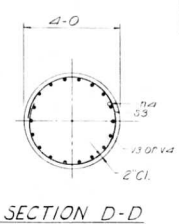
TOP PLAN - PIER Q1



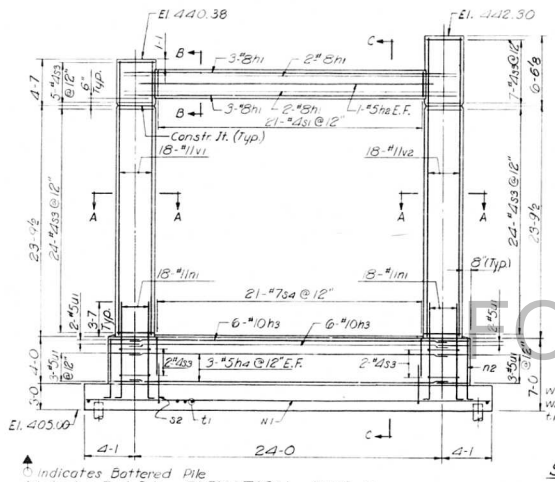
SECTION A-A



TOP PLAN - PIER Q2

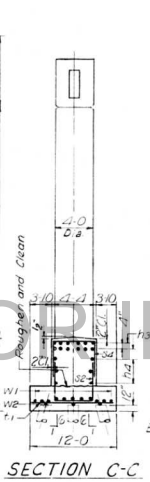


SECTION D-D

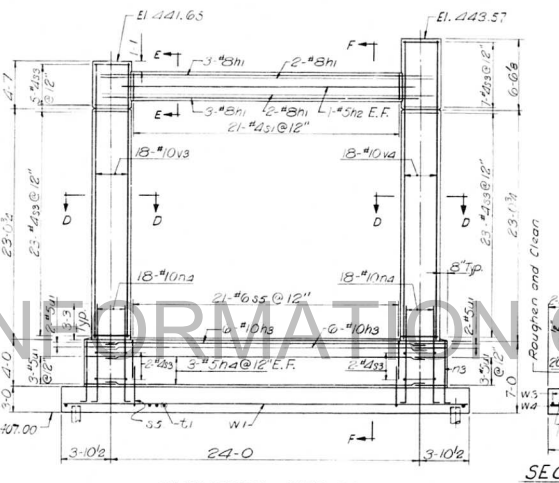


Ⓒ Indicates Bottered Pile
Ⓣ Indicates Test Pile

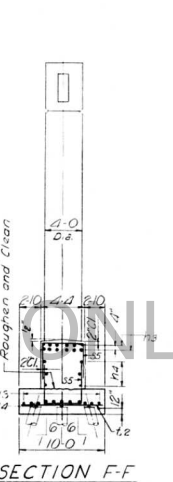
ELEVATION - PIER Q1



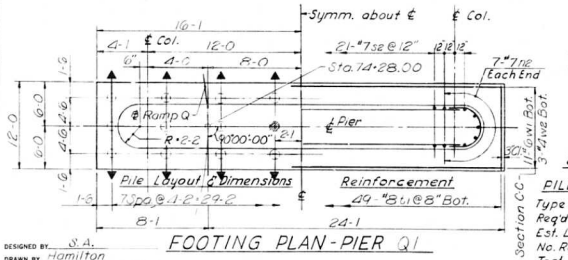
SECTION C-C



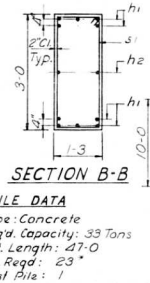
ELEVATION - PIER Q2



SECTION F-F



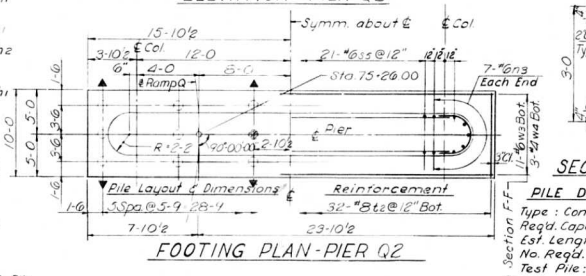
FOOTING PLAN - PIER Q1



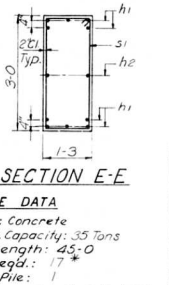
SECTION B-B

PILE DATA
Type: Concrete
Req'd. Capacity: 33 Tons
Est. Length: 47-0
No. Req'd.: 23*
Test Pile: 1
* Does not include Test Pile

See Section C-C



FOOTING PLAN - PIER Q2



SECTION E-E

PILE DATA
Type: Concrete
Req'd. Capacity: 35 Tons
Est. Length: 45-0
No. Req'd.: 17*
Test Pile: 1
* Does not include Test Pile

See Section F-F

DESIGNED BY S. A.
DRAWN BY Hamilton
CHECKED BY E. W.
APPROVED BY K. A.

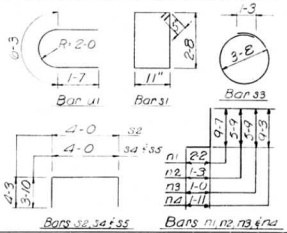
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I – 70	82-3HVB-1	ST. CLAIR	207	129
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

*Mark	No. Req'd. Pier Q1	Pier Q2	Size	Length	Shape
451 h1	10	10	#8	26-4	
451 h2	2	2	#5	22-6	
451 h3	12	12	#10	25-0	
451 h4	6	6	#5	25-0	
451 n1	30	—	#11	11-9	
451 n2	14	—	#7	7-0	
451 n3	—	14	#6	6-9	
451 n4	—	36	#10	11-2	
451 s1	21	21	#4	8-0	
451 s2	21	–	#7	12-6	
451 s3	64	62	#4	12-9	
451 s4	21	-	#7	11-8	
451 s5	—	42	#6	11-8	
451 t1	49		#8	11-8	
451 t2	—	32	#8	9-8	
451 u1	10	10	#5	9-5	C
451 v1	18	-	#11	28-2	
451 v2	18	-	#11	30-1	
451 v3	—	18	#10	27-6	
451 v4	—	18	#10	29-5	
451 w1	11	—	#6	31-10	
451 w2	3	—	#4	31-10	
451 w3	—	11	#6	31-5	
451 w4	—	3	#4	31-5	

*See Note "X" Sh. No. 35

Item	Unit	Total Pier Q1	Pier Q2
Class X Concrete	C.Y.	90.6	82.5
Reinforcement Bars	Lbs.	14,130	11,360
Concrete Piles	L.F.	1081 *	765 *
Test Piles (concrete)	Ea.	1	1



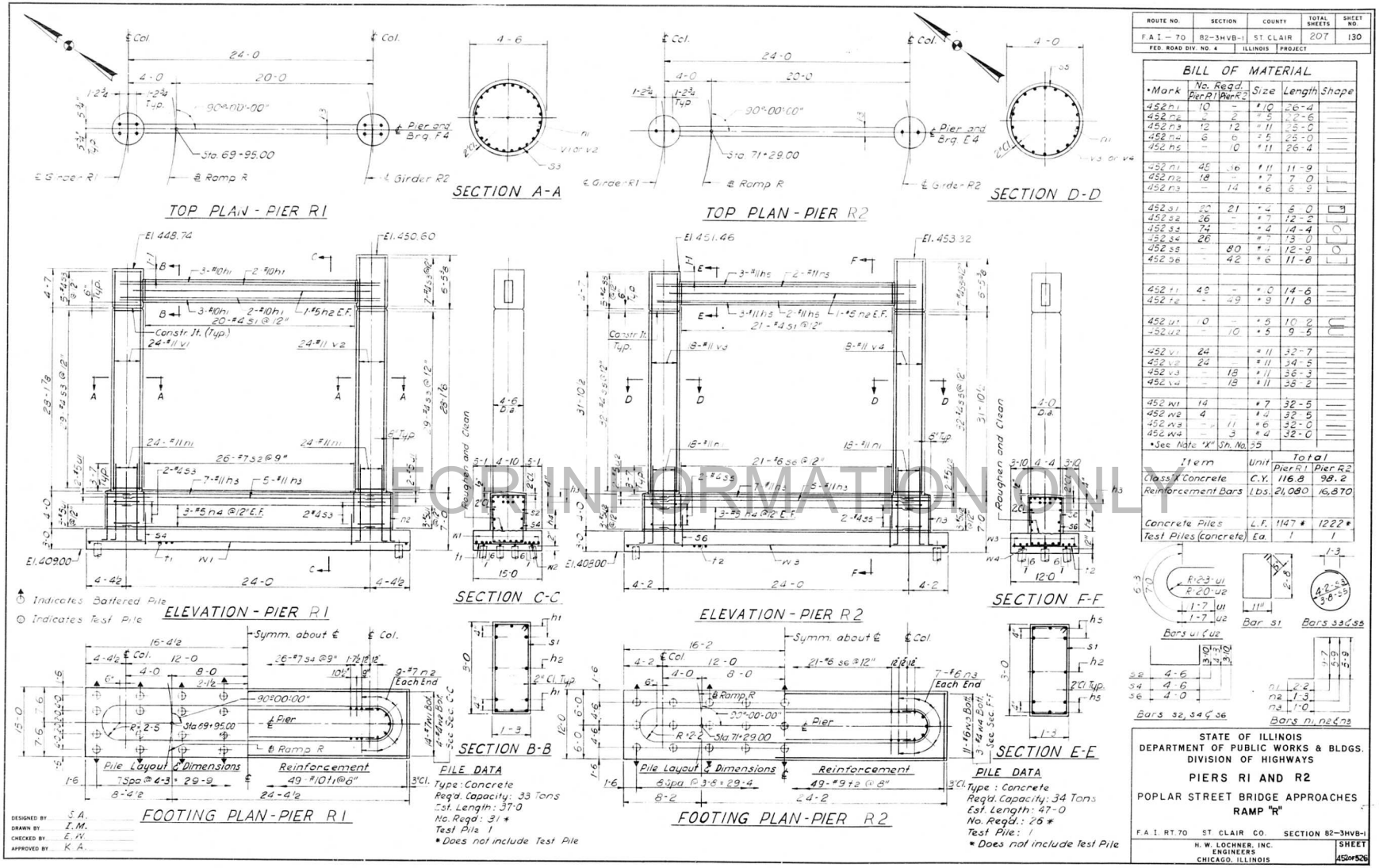
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS

PIERS Q1 AND Q2
POPLAR STREET BRIDGE APPROACHES
RAMP "Q"

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

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

SHEET 451 OF 526



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I – 70	82-3HVB-1	ST. CLAIR	207	130
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

*Mark	No. Reqd. Pier R1	No. Reqd. Pier R2	Size	Length	Shape
452 h1	10	–	# 10	26-4	
452 h2	2	2	# 5	22-6	
452 h3	12	12	# 11	25-0	
452 h4	6	6	# 5	25-0	
452 h5	–	10	# 11	26-4	
452 n1	45	36	# 11	11-9	
452 n2	18	–	# 7	7-0	
452 n3	–	14	# 6	6-9	
452 s1	22	21	# 4	6-0	
452 s2	26	–	# 7	12-2	
452 s3	74	–	# 4	14-4	
452 s4	26	–	# 7	13-0	
452 s5	–	80	# 4	12-9	
452 s6	–	42	# 6	11-6	
452 t1	42	–	# 10	14-6	
452 t2	–	49	# 9	11-8	
452 u1	0	–	# 5	10-2	
452 u2	–	10	# 5	9-5	
452 v1	24		# 11	32-7	
452 v2	24	–	# 11	34-5	
452 v3	–	18	# 11	36-3	
452 v4	–	18	# 11	36-2	
452 w1	14		# 7	32-5	
452 w2	4	–	# 4	32-5	
452 w3	–	11	# 6	32-5	
452 w4	–	3	# 4	32-0	

*See Note "X" Sh. No. 35

Item	Unit	Total Pier R1	Total Pier R2
Class "X" Concrete	C.Y.	116.8	98.2
Reinforcement Bars	Lbs.	21,080	16,870
Concrete Piles	L.F.	1147 *	1222 *
Test Piles (concrete)	Ea.	1	1

DESIGNED BY S.A.
DRAWN BY I.M.
CHECKED BY E.W.
APPROVED BY K.A.

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

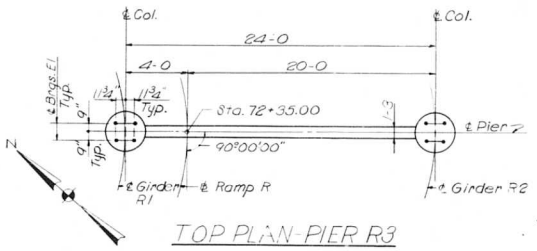
PIERS R1 AND R2

POPLAR STREET BRIDGE APPROACHES
RAMP "R"

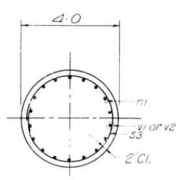
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-1

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

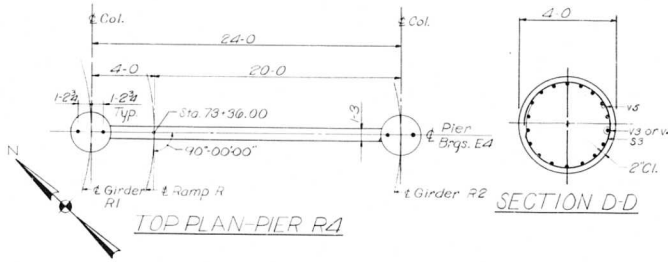
SHEET 452 OF 526



TOP PLAN-PIER R3

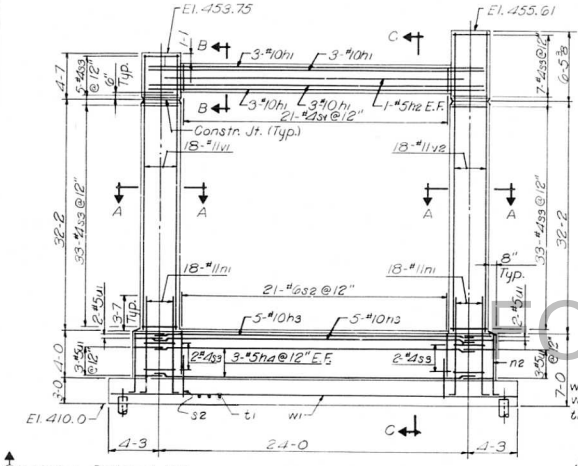


SECTION A-A



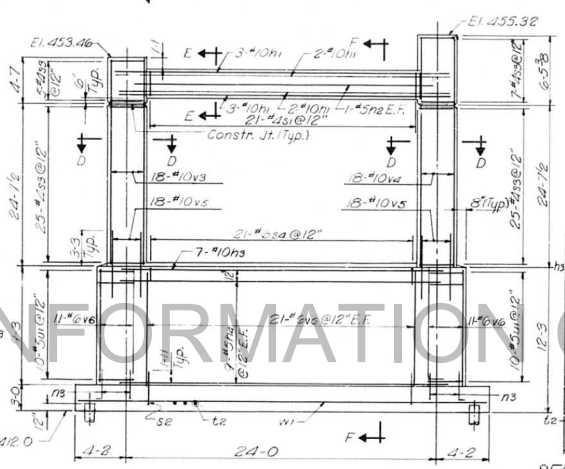
TOP PLAN-PIER R4

SECTION D-D

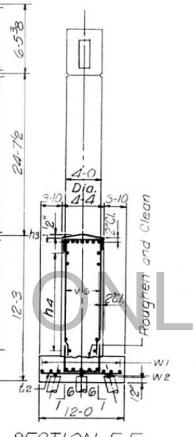


ELEVATION-PIER R3

SECTION C-C

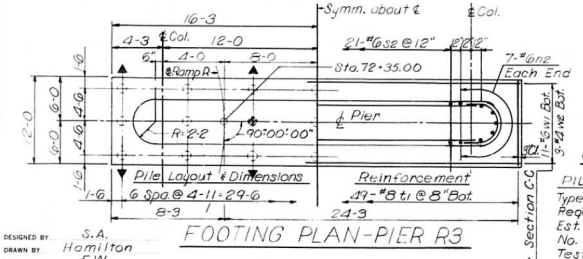


ELEVATION-PIER R4

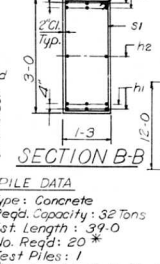


SECTION F-F

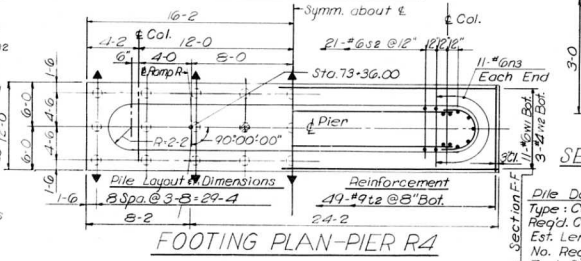
Indicates Battered Pile
Indicates Test Pile



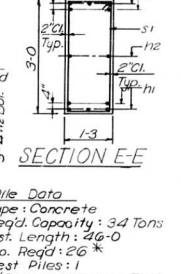
FOOTING PLAN-PIER R3



SECTION B-B



FOOTING PLAN-PIER R4



SECTION E-E

PILE DATA
Type: Concrete
Reqd. Capacity: 32 Tons
Est. Length: 39-0
No. Reqd: 20 *
Test Piles: 1
*Does not include Test Pile

See Section C-C

Pile Data
Type: Concrete
Reqd. Capacity: 34 Tons
Est. Length: 46-0
No. Reqd: 26 *
Test Piles: 1
*Does not include Test Pile

See Section E-E

DESIGNED BY S.A.
DRAWN BY Hamilton
CHECKED BY E.W.
APPROVED BY K.A

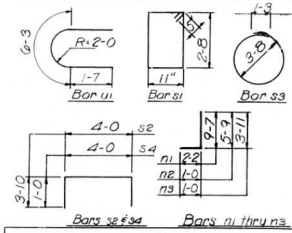
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I-70	82-3HVB-1	ST. CLAIR	207	131
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

• Mark	No. Reqd. Pier R3	No. Reqd. Pier R4	Size	Length	Shape
453 h1	12	10	#10	26-4	
453 h2	2	2	#5	22-9	
453 h3	10	7	#10	25-0	
453 h4	6	18	#5	25-0	
453 n1	36	—	#11	11-9	L
453 n2	14	—	#6	6-9	L
453 n3	—	22	#6	4-11	L
453 s1	21	21	#4	8-0	3
453 s2	42	21	#6	11-8	
453 s3	82	42	#4	12-9	
453 s4	—	21	#6	4-0	
453 t1	49	—	#8	11-8	
453 t2	—	49	#9	11-8	
453 u1	10	20	#5	9-5	
453 v1	18	—	#11	36-7	
453 v2	18	—	#11	38-5	
453 v3	—	18	#10	29-0	
453 v4	—	18	#10	30-11	
453 v5	—	36	#10	7-6	
453 v6	—	64	#6	3-1	
453 w1	11	11	#6	32-0	
453 w2	3	3	#4	32-0	

• See Note "X" Sh. No. 35

Item	Unit	Total Pier R3	Total Pier R4
Class "X" Concrete	C.Y.	98.3	115.3
Reinforcement Bars	Lbs.	15,960	13,170
Concrete Piles	L.F.	780*	1196*
Test Piles (concrete)	Ea.	1	1



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

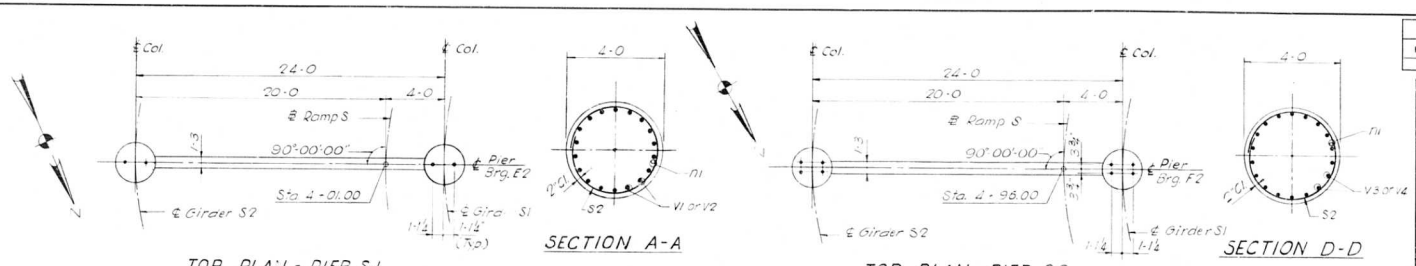
PIERS R3 AND R4

POPLAR STREET BRIDGE APPROACHES
RAMP "R"

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

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

SHEET 433 of 526

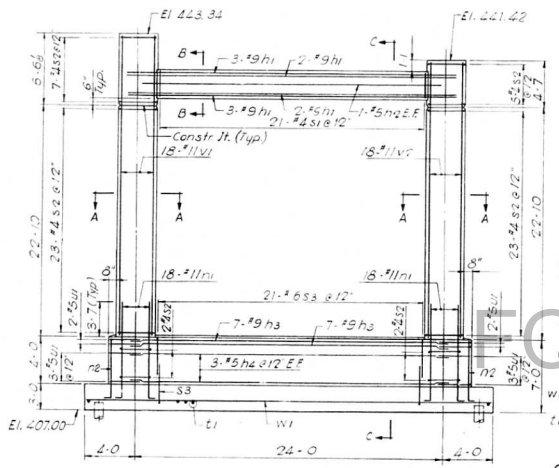


TOP PLAN - PIER S1

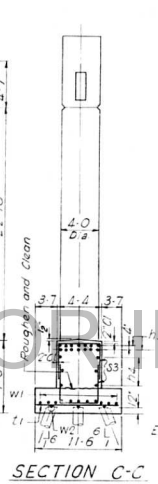
SECTION A-A

TOP PLAN - PIER S2

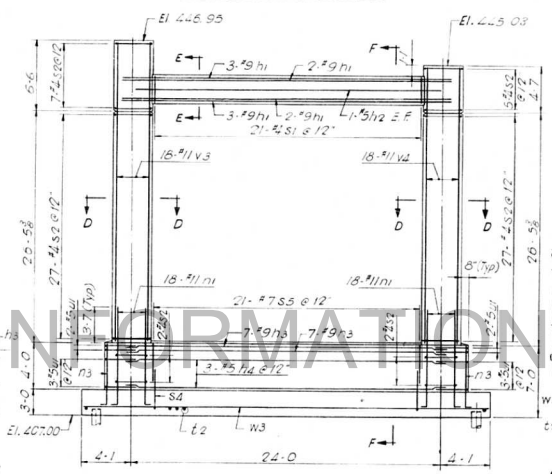
SECTION D-D



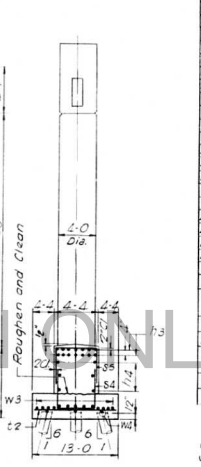
ELEVATION - PIER S1



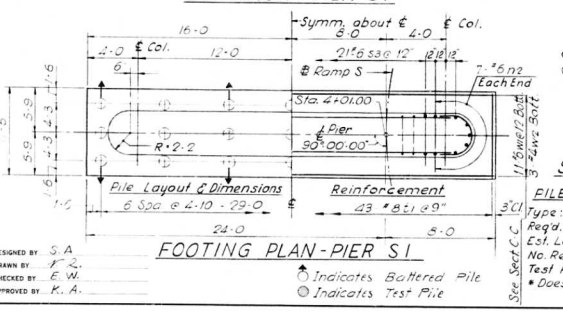
SECTION C-C



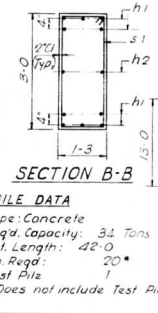
ELEVATION - PIER S2



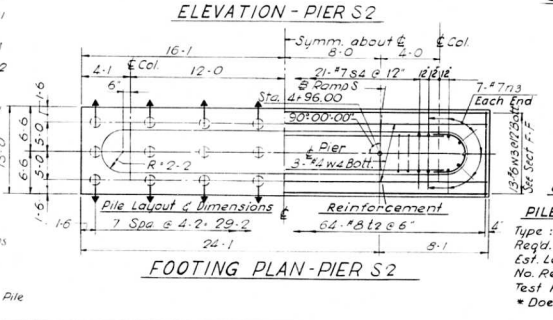
SECTION F-F



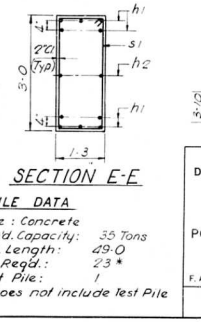
FOOTING PLAN - PIER S1



SECTION B-B



FOOTING PLAN - PIER S2



SECTION E-E

DESIGNED BY S.A.
DRAWN BY K.Z.
CHECKED BY E.W.
APPROVED BY K.A.

Indicates Battered Pile
Indicates Test Pile

PILE DATA
Type: Concrete
Reqd. Capacity: 34 Tons
Est. Length: 42'-0
No. Reqd.: 20*
Test Pile: 1
* Does not include Test Pile

PILE DATA
Type: Concrete
Reqd. Capacity: 35 Tons
Est. Length: 49'-0
No. Reqd.: 23*
Test Pile: 1
* Does not include Test Pile

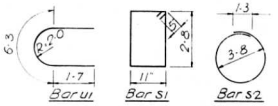
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I - 70	82-3HVB-1	ST. CLAIR	207	132
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

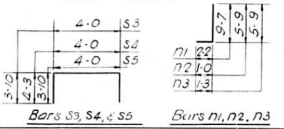
BILL OF MATERIAL

*Mark	No. Reqd. Pier S1	No. Reqd. Pier S2	Size	Length	Shape
454 h1	10	10	#9	26-4	—
454 h2	2	2	#5	22-6	—
454 h3	14	14	#9	25-0	—
454 h4	6	6	#5	25-0	—
454 n1	36	36	#11	11-9	⌐¬
454 n2	14	—	#6	6-9	⌐¬
454 n3	—	14	#7	7-0	⌐¬
454 S1	21	21	#4	8-0	□
454 S2	62	70	#4	12-9	□
454 S3	42	—	#6	11-8	⌐¬
454 S4	—	21	#7	12-6	⌐¬
454 S5	—	21	#7	11-8	⌐¬
454 t1	43	—	#8	11-2	—
454 t2	—	64	#8	12-8	—
454 U1	10	10	#5	9-5	⊂
454 V1	18	—	#11	29-2	—
454 V2	18	—	#11	27-3	—
454 V3	—	18	#11	32-9	—
454 V4	—	18	#11	30-10	—
454 W1	11	—	#6	31-8	—
454 W2	3	—	#4	31-8	—
454 W3	—	13	#6	31-10	—
454 W4	—	3	#4	31-10	—

*See Note "K" Sh. No. 35

Item	Unit	Total Pier S1	Total Pier S2
Class "K" Concrete	C.Y.	87.8	96.6
Reinforcement Bars	Lbs.	13,420	15,510
Concrete Piles	L.F.	840*	1127*
Test Piles (concrete)	Ea.	1	1





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

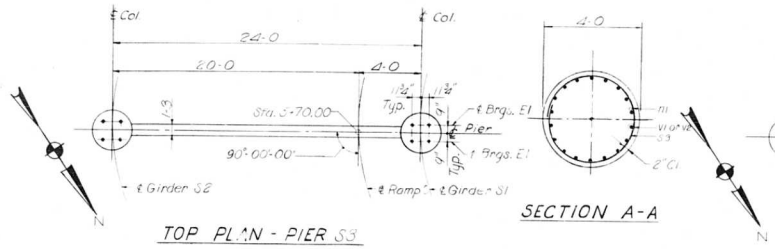
PIERS S1 AND S2

POPLAR STREET BRIDGE APPROACHES
RAMP "S"

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

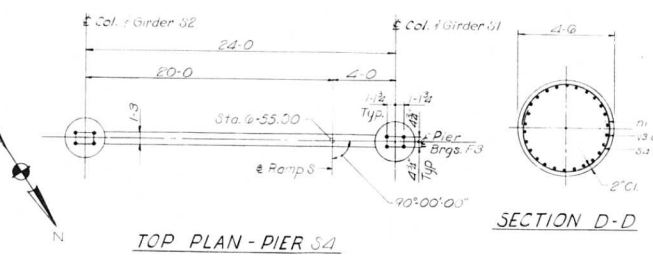
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 454 or 526



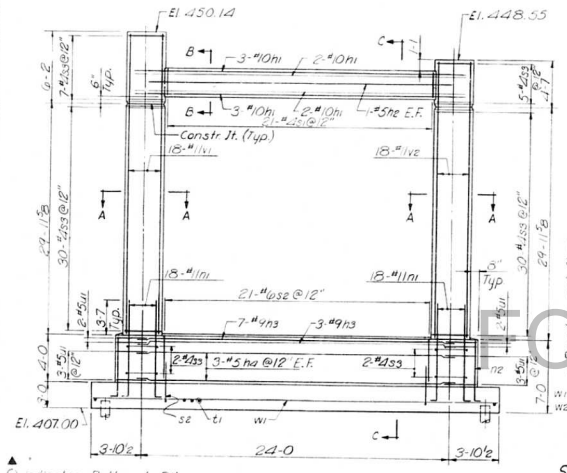
TOP PLAN - PIER S3

SECTION A-A

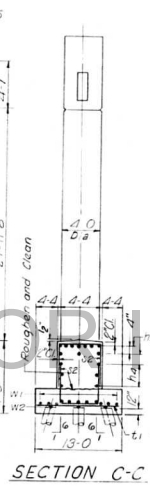


TOP PLAN - PIER S4

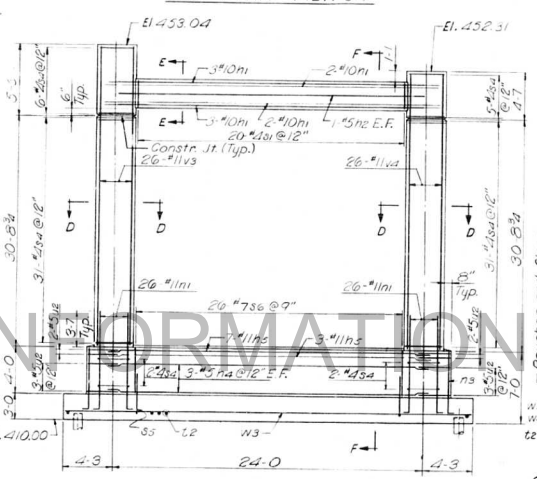
SECTION D-D



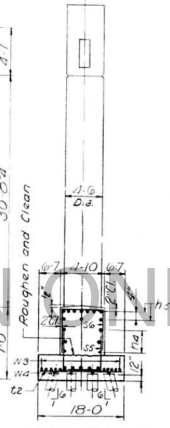
ELEVATION - PIER S3



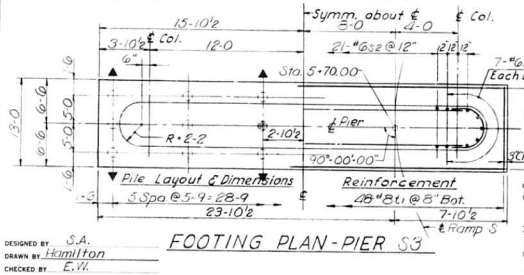
SECTION C-C



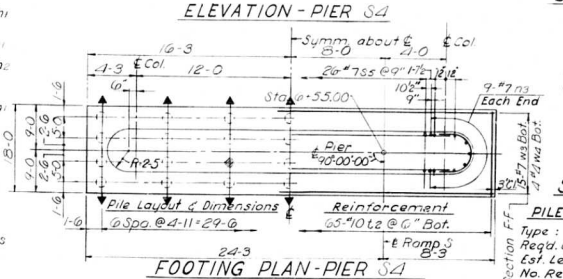
ELEVATION - PIER S4



SECTION F-F

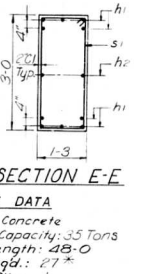


FOOTING PLAN - PIER S3



FOOTING PLAN - PIER S4

SECTION B-B



SECTION E-F

See Section C-C

PILE DATA
Type: Concrete
Req'd. Capacity: 34 Tons
Est. Length: 31-0
No. Req'd: 17 *
Test Pile 1
* Does not include Test Pile

See Section E-F

PILE DATA
Type: Concrete
Req'd. Capacity: 35 Tons
Est. Length: 28-0
No. Req'd.: 27 *
Test Pile: 1
* Does not include Test Pile

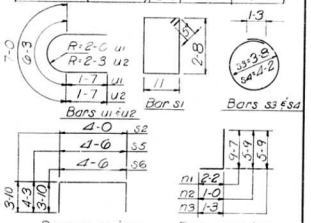
DESIGNED BY S.A.
DRAWN BY Hamilton
CHECKED BY E.W.
APPROVED BY K.A.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-1	ST. CLAIR	207	133
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

•Mark	No. Req'd. Pier S3	No. Req'd. Pier S4	Size	Length	Shape
455 n1	10	10	#10	26-4	
455 n2	2	2	#5	22-6	
455 n3	10	—	#9	25-0	
455 n4	6	6	#5	25-0	
455 n5	—	10	#11	25-0	
455 n1	36	52	#3	11-9	
455 n2	14	—	#6	6-9	
455 n3	—	18	#7	7-0	
455 s1	21	20	#4	15-0	3
455 s2	42	—	#6	11-5	
455 s3	76	—	#4	12-9	D
455 s4	—	77	#4	14-4	D
455 s5	—	26	#7	13-0	
455 s6	—	26	#7	12-2	
455 t1	48	—	#8	12-8	
455 t2	—	65	#10	17-8	
455 w1	10	—	#5	9-5	
455 w2	—	10	#5	10-2	
455 v1	18	—	#11	35-11	
455 v2	18	—	#11	34-4	
455 v3	—	26	#11	35-10	
455 v4	—	26	#11	33-1	
455 w1	11	—	#6	31-5	
455 w2	3	—	#4	31-5	
455 w3	—	15	#7	32-2	
455 w4	—	4	#4	32-2	
•See Note "X"	Sh. No.	35			

Item	Unit	Total Pier S3	Total Pier S4
Class "X" Concrete	C.Y.	99.3	129.6
Reinforcement Bars	Lbs.	15,090	24,270
Concrete Piles	L.F.	527 *	1296 *
Test Piles (concrete)	Ea.	1	1



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

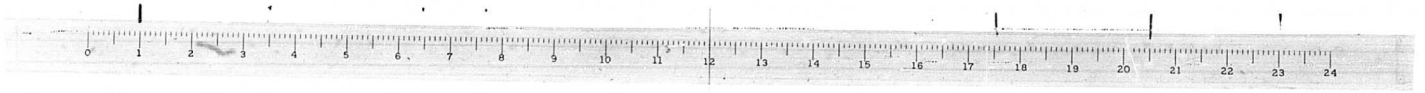
PIERS S3 AND S4

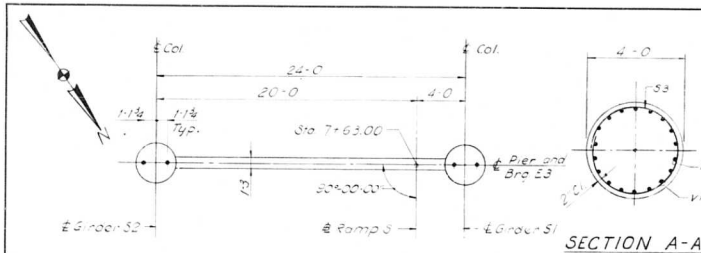
POPLAR STREET BRIDGE APPROACHES
RAMP "S"

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

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

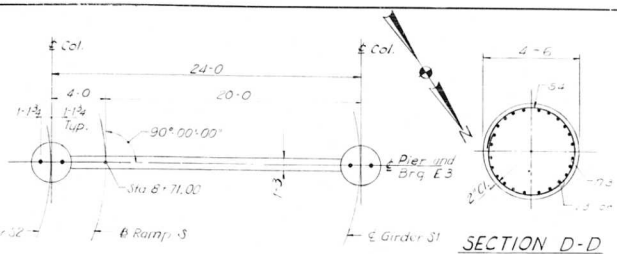
SHEET 455 OF 526





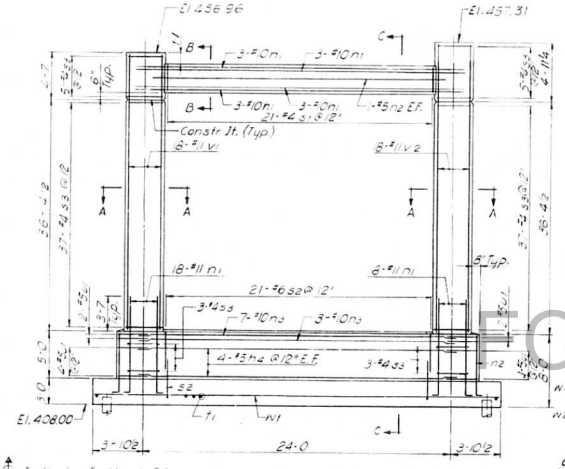
TOP PLAN - PIER S5

SECTION A-A

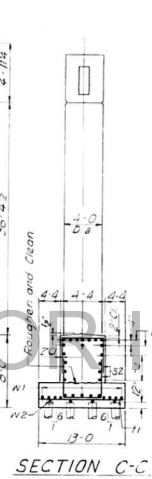


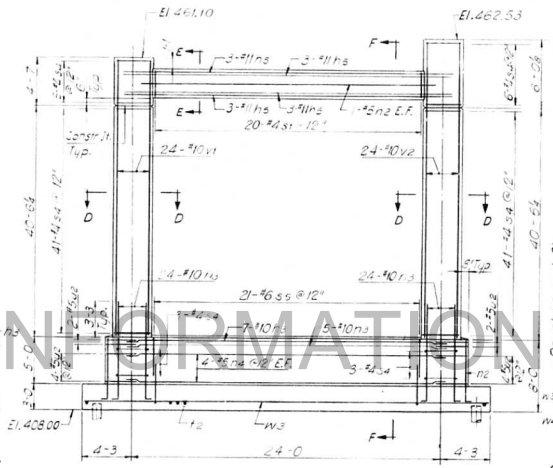
TOP PLAN - PIER S6

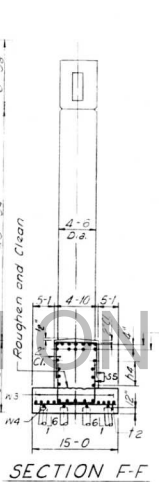
SECTION D-D



SECTION C-C





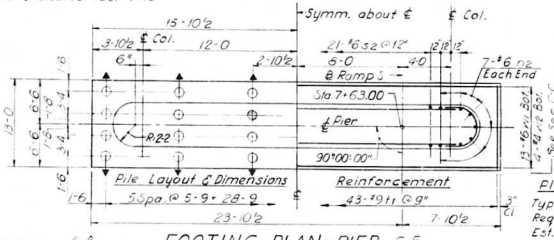


SECTION F-F

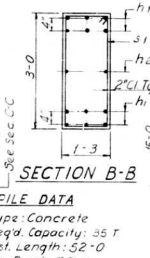
Ⓐ -Indicates Battered Pile
Ⓣ -Indicates Test Pile

ELEVATION - PIER S5

ELEVATION - PIER S6

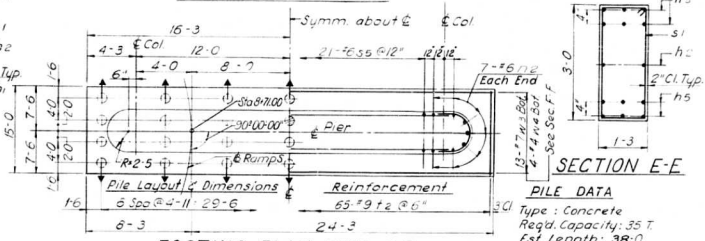


FOOTING PLAN - PIER S5



SECTION B-B

PILE DATA
Type: Concrete
Req'd. Capacity: 35 T.
Est. Length: 52'-0
No. Req'd.: 23 *
Test Pile: 1
* Does not include Test Pile



FOOTING PLAN - PIER S6

SECTION E-E

PILE DATA
Type: Concrete
Req'd. Capacity: 35 T.
Est. Length: 38'-0
No. Req'd.: 27 *
Test Pile: 1
* Does not include Test Pile

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

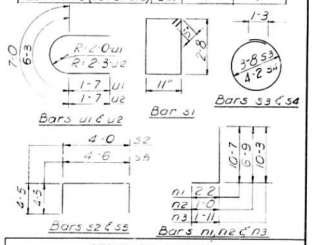
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I—70	82-3HVB-1	ST. CLAIR	207	134
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

•Mark	No. Req'd. Pier S5	No. Req'd. Pier S6	Size	Length	Shape
456 h1	12	-	# 10	26'-4	
456 h2	2	2	# 5	22'-6	
456 h3	10	12	# 10	25' 0	
456 h4	6	8	# 5	25' 0	
456 h5	-	12	# 11	26' 4	
456 n1	36	-	# 11	12' 9	
456 n2	14	14	# 6	7' 9	
456 n3	-	48	# 10	12' 2	
456 s1	21	20	# 4	8' 0	
456 s2	42	-	# 6	12'-10	
456 s3	90	-	# 4	12' 9	
456 s4	-	99	# 4	14' 4	
456 s5	-	42	# 6	13' 4	
456 t1	43	-	# 9	12' 8	
456 t2	-	65	# 9	14' 8	
456 u1	12	-	# 5	9' 5	
456 u2	-	12	# 5	10' 2	
456 v1	18	-	# 11	40' 9	
456 v2	18	-	# 11	41' 2	
456 v3	-	24	# 10	44' 11	
456 v4	-	24	# 10	46' 4	
456 w1	13	-	# 6	31' 5	
456 w2	4	-	# 4	31' 5	
456 w3	-	13	# 7	32' 2	
456 w4	-	4	# 4	32' 2	

•See Note "X" Sh. No. 35

Item	Unit	Total Pier S5	Total Pier S6
Class 'X' Concrete	C.Y.	109.1	135.6
Reinforcement Bars	Lbs.	17,480	21,530
Concrete Piles	L.F.	1196 *	1026*
Test Piles (concrete)	Ea.	1	1



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

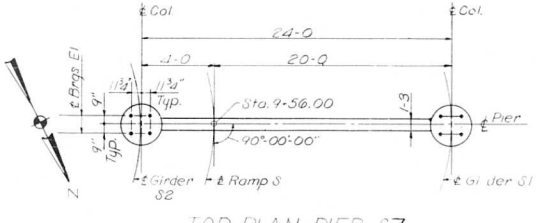
PIERS S5 AND S6

POPLAR STREET BRIDGE APPROACHES
RAMP "S"

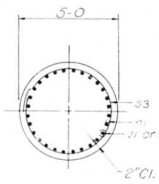
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-1

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

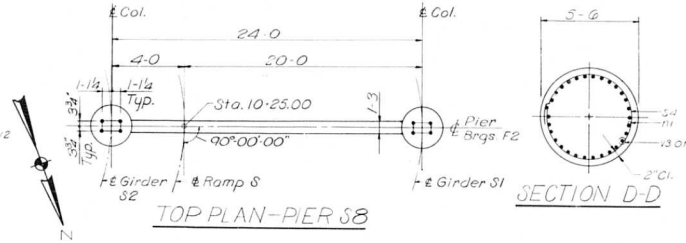
SHEET 456 OF 526



TOP PLAN-PIER S7

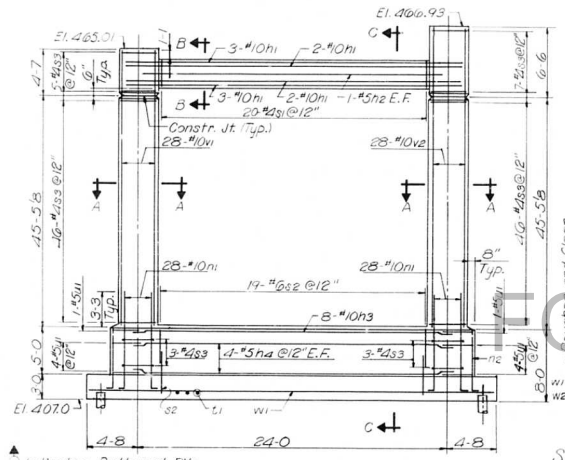


SECTION A-A



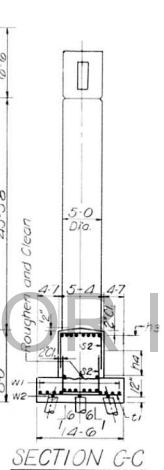
TOP PLAN-PIER S8

SECTION D-D

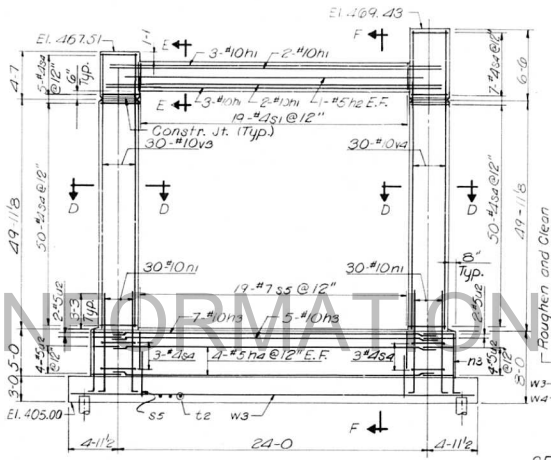


▲ Indicates Battered Pile
◇ Indicates Test Pile

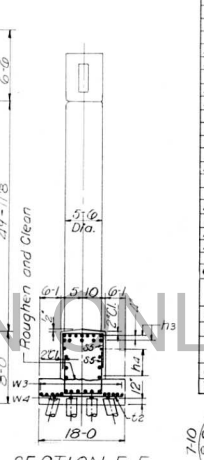
ELEVATION-PIER S7



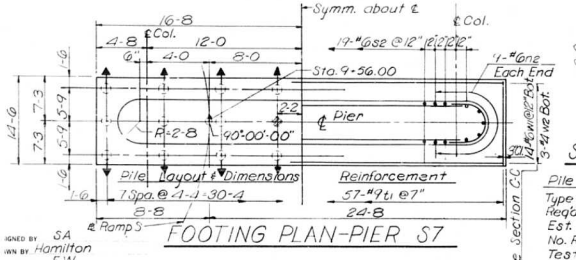
SECTION G-C



ELEVATION-PIER S8



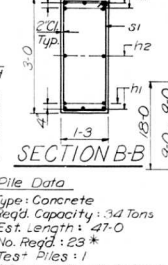
SECTION F-F



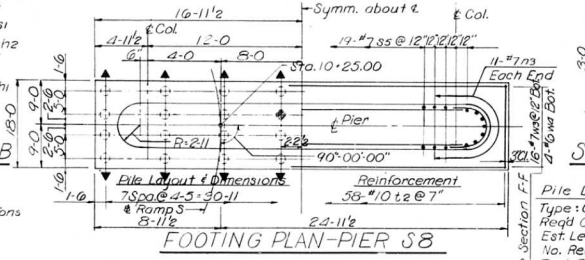
Pile Layout & Dimensions
7 Spa. @ 4-1 = 30-4

Reinforcement
57-#4 T1 @ 7"

FOOTING PLAN-PIER S7



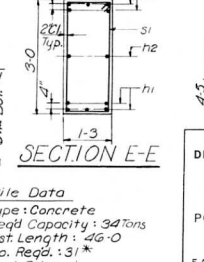
SECTION B-B



Pile Layout & Dimensions
7 Spa. @ 4-5 = 30-11

Reinforcement
58-#10 T2 @ 7"

FOOTING PLAN-PIER S8



SECTION E-E

Pile Data
Type: Concrete
Reqd. Capacity: 34 Tons
Est. Length: 47-0
No. Reqd.: 23*
Test Piles: 1
*Does not include Test Pile

See Section G-C

Pile Data
Type: Concrete
Reqd. Capacity: 34 Tons
Est. Length: 46-0
No. Reqd.: 31*
Test Piles: 1
*Does not include Test Pile

See Section F-F

DESIGNED BY SA
DRAWN BY Hamilton
CHECKED BY E.W.
APPROVED BY K.A.

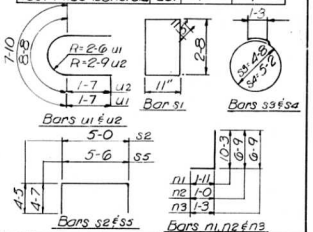
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I-70	82-3HVB-1	ST. CLAIR	207	135
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

• Mark	No. Req'd Pier S7	No. Req'd Pier S8	Size	Length	Shape
457 H1	10	10	#10	26-4	
457 H2	2	2	#5	22-6	
457 H3	8	12	#10	25-0	
457 H4	8	8	#5	25-0	
457 N1	56	60	#10	12-2	
457 N2	18	—	#6	7-9	
457 N3	—	22	#7	8-0	
457 S1	20	19	#4	8-0	
457 S2	38	—	#6	13-10	
457 S3	110	—	#4	15-11	
457 S4	—	118	#4	17-6	
457 S5	—	38	#7	14-8	
457 T1	57	—	#9	14-2	
457 T2	—	58	#10	17-8	
457 U1	10	—	#5	11-0	
457 U2	—	12	#5	11-10	
457 V1	28	—	#10	49-10	
457 V2	28	—	#10	51-9	
457 V3	—	30	#10	52-4	
457 V4	—	30	#10	56-3	
457 W1	14	—	#6	33-0	
457 W2	3	—	#4	33-0	
457 W3	—	16	#7	33-7	
457 W4	—	4	#4	33-7	

• See Note "X" Sh. No. 35

Item	Unit	Total Pier S7	Total Pier S8
Class "X" Concrete	C.Y.	158.6	199.1
Reinforcement Bars	Lbs.	23,320	28,820
Concrete Piles	L.F.	1081*	1426*
Test Piles (concrete)	Ea.	1	1



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

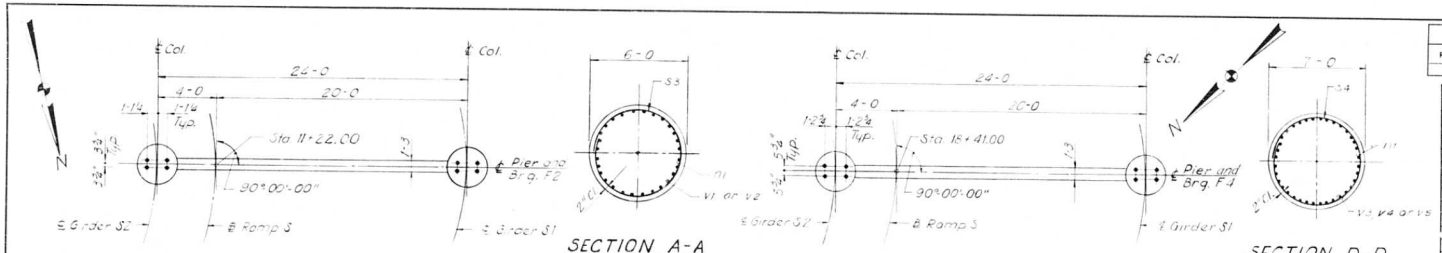
PIERS S7 AND S8

POPLAR STREET BRIDGE APPROACHES
RAMP "S"

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

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

SHEET 457 OF 526

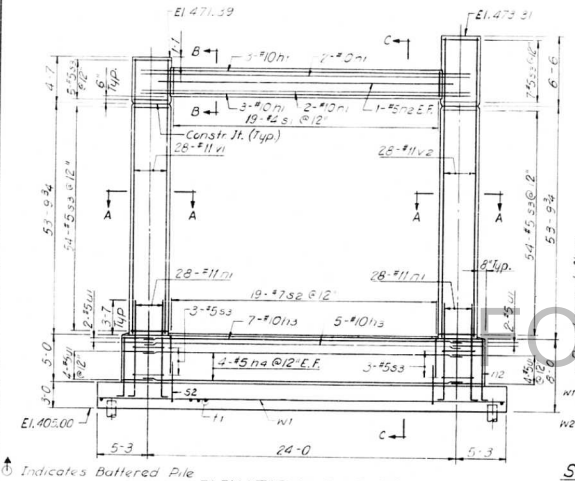


TOP PLAN - PIER S9

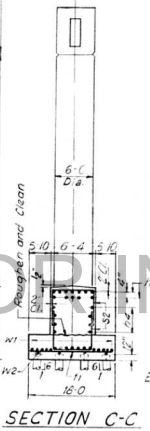
SECTION A-A

TOP PLAN - PIER S16

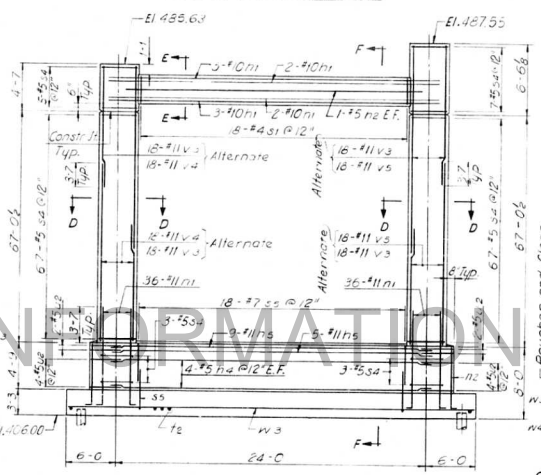
SECTION D-D



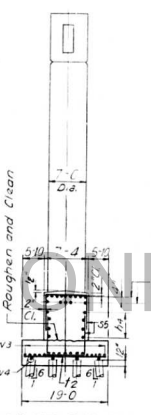
ELEVATION - PIER S9



SECTION C-C

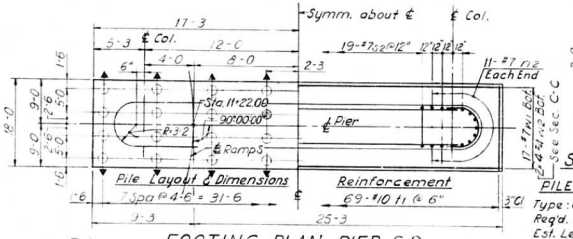


ELEVATION - PIER S16

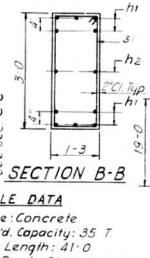


SECTION F-F

Indicates Battered Pile
Indicates Test Pile

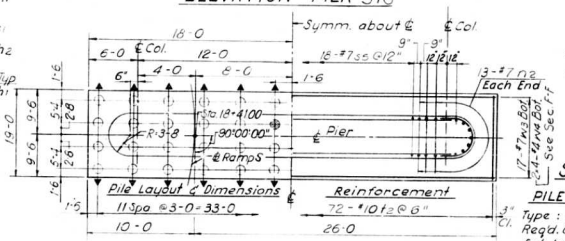


FOOTING PLAN - PIER S9

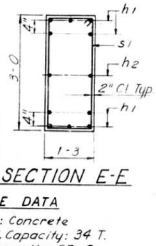


SECTION B-B

PILE DATA
Type: Concrete
Reqd. Capacity: 35 T.
Est. Length: 41'-0
No. Reqd: 31 *
Test Pile 1
* Does not include Test Pile



FOOTING PLAN - PIER S16



SECTION E-E

PILE DATA
Type: Concrete
Reqd. Capacity: 34 T.
Est. Length: 37'-0
No. Reqd.: 47 *
Test Pile: 1
* Does not include Test Pile

DESIGNED BY S.A.
DRAWN BY I.M.
CHECKED BY E.W.
APPROVED BY K.A.

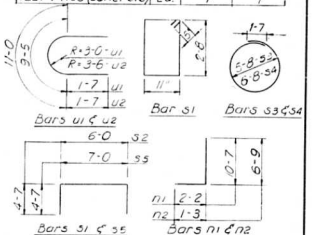
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82—3HVB—1	ST. CLAIR	207	136
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

*Mark	No. Reqd. Pier S9	No. Reqd. Pier S16	Size	Length	Shape
458 n1	10	10	#10	26-4	
458 n2	2	2	#5	26-6	
458 n3	12	-	#10	25-0	
458 n4	6	8	#5	25-0	
458 n5	-	4	#11	25-0	
458 n1	56	72	#11	12-9	
458 n2	22	26	#7	8-0	
458 s1	19	18	#4	6-0	
458 s2	19		#7	18-2	
458 s3	126		#5	19-5	
458 s4		152	#5	22-6	
458 s5		36	#7	16-2	
458 t1	69	-	#10	7-8	
458 t2	-	72	#10	18-8	
458 u1	12	-	#5	12-7	
458 u2	-	2	#5	14-4	
458 v1	28	-	#11	58-2	
458 v2	28	-	#11	60-1	
458 v3		72	#11	49-4	
458 v4		36	#11	25-8	
458 v5	-	36	#11	-	
458 w1	17	-	#7	34-2	
458 w2	6	-	#4	17-9	
458 w3	-	17	#7	35-6	
458 w4	-	8	#4	18-6	

*See Note "K" Sh. No. 35

Item	Unit	Total Pier S9	Total Pier S16
Class 'K' Concrete	C.Y.	230.1	330.1
Reinforcement Bars	Lbs.	34,940	49,760
Concrete Piles	L.F.	1271 *	1739 *
Test Piles (concrete)	Ea.	1	1



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

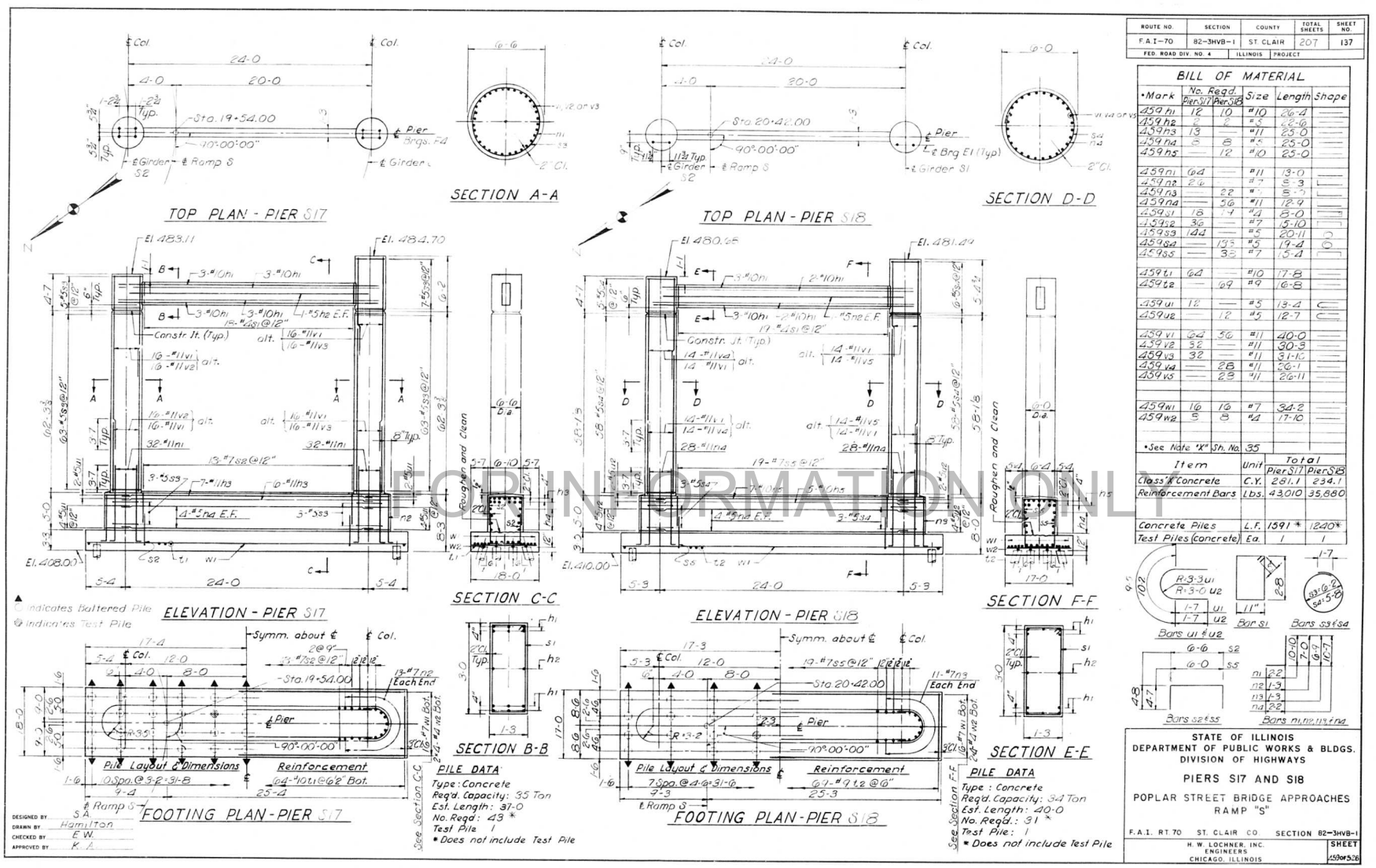
PIERS S9 AND S16

POPLAR STREET BRIDGE APPROACHES
RAMP "S"

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

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

SHEET 458 or 526



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I—70	82-3HVB-1	ST. CLAIR	207	137
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL

• Mark	No. Reqd. Pier S17	No. Reqd. Pier S18	Size	Length	Shape
459 h1	12	10	#10	26-4	
459 h2	2	2	#5	22-10	
459 n3	13	—	#11	25-0	
459 n4	5	8	#5	25-0	
459 n5	—	12	#10	25-0	
459 n1	64	—	#11	13-0	
459 n2	26	—	#7	8-3	L
459 n3	—	22	#7	8-3	L
459 n4	—	56	#11	12-9	
459 s1	18	14	#4	8-0	
459 s2	36	—	#7	15-10	
459 s3	144	—	#5	20-11	O
459 s4	—	196	#5	19-4	O
459 s5	—	32	#7	15-4	
459 t1	64	—	#10	17-8	
459 t2	—	69	#9	16-8	
459 u1	12	—	#5	13-4	C
459 u2	—	12	#5	12-7	C
459 v1	64	56	#11	40-0	
459 v2	52	—	#11	30-3	
459 v3	32	—	#11	31-10	
459 v4	—	28	#11	26-1	
459 v5	—	28	#11	26-11	
459 w1	16	16	#7	34-2	
459 w2	8	8	#4	17-10	

• See Note "X" Sh. No. 35

Item	Unit	Total Pier S17	Total Pier S18
Class 'X' Concrete	C.Y.	281.1	234.1
Reinforcement Bars	Lbs.	43,010	35,680
Concrete Piles	L.F.	1591 *	1240 *
Test Piles (concrete)	Ea.	1	1

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

PIERS S17 AND S18

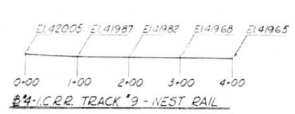
POPLAR STREET BRIDGE APPROACHES
RAMP "S"

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

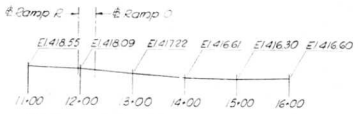
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 159 OF 526

DESIGNED BY S.A.
DRAWN BY Hamilton
CHECKED BY E.W.
APPROVED BY K.A.



℄ 4 - I.C.R.R. TRACK "9 - WEST RAIL



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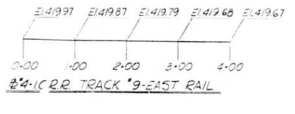

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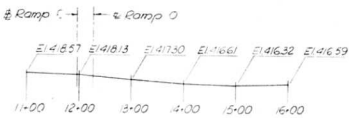

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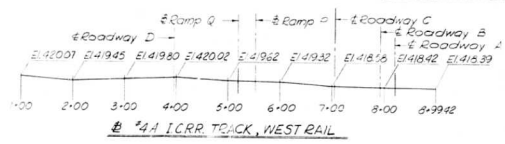

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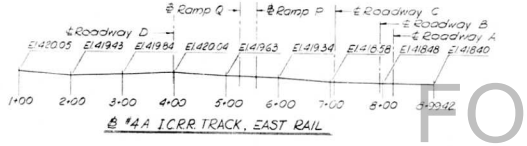

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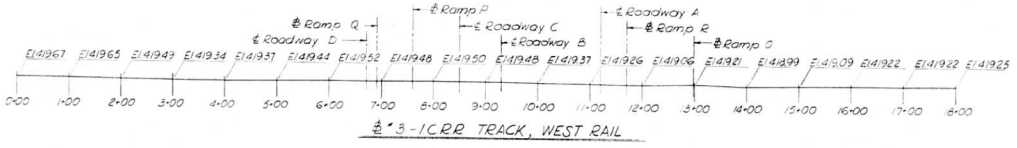

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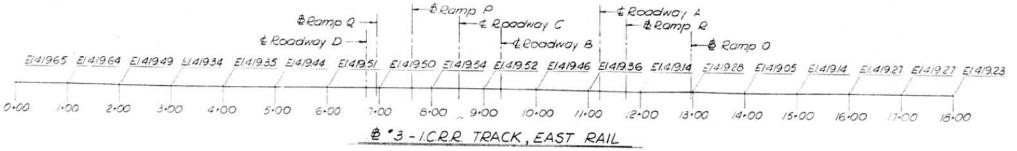

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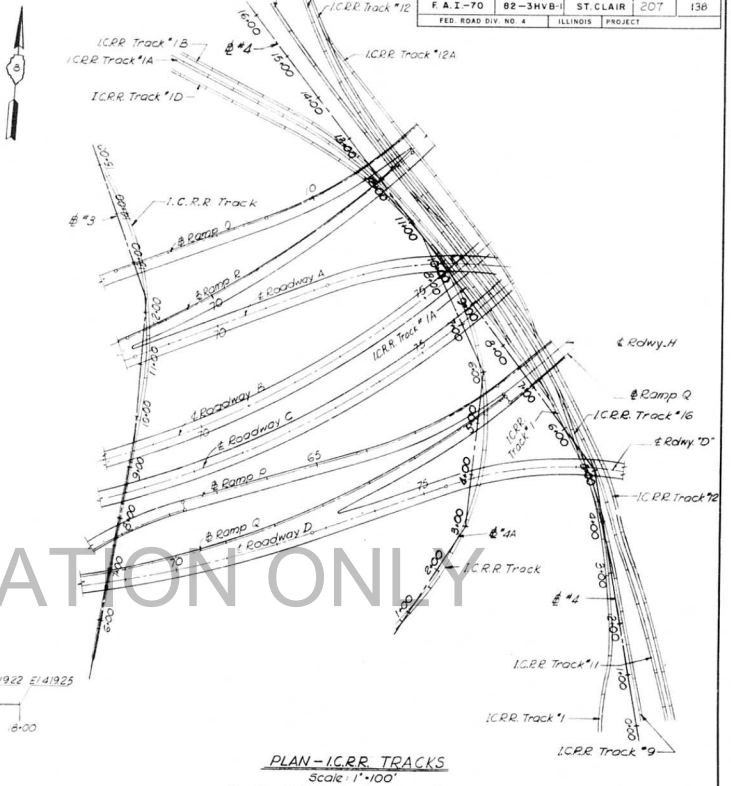


PLAN - I.C.R.R. TRACKS
Scale: 1" = 100'
For Track "1, "11, "12, "1A, "1B & "12A
Profiles see Sheet No 178

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I. - 70	82 - 3HVB-1	ST. CLAIR	207	138
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

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

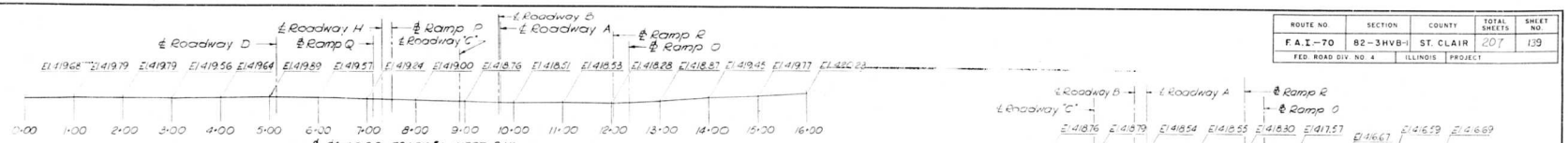
PROFILES

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

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

SHEET 460 OF 526

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-1	ST. CLAIR	207	139
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



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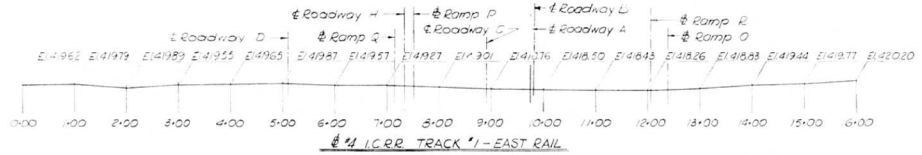

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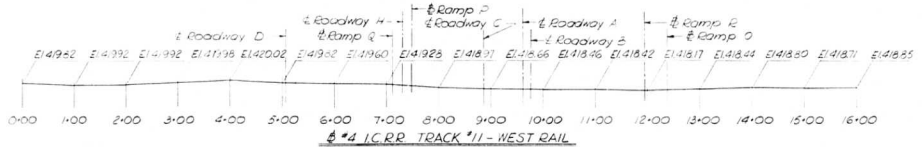

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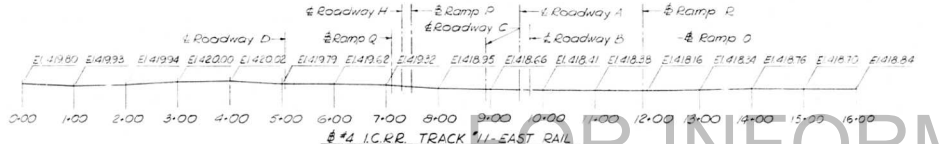

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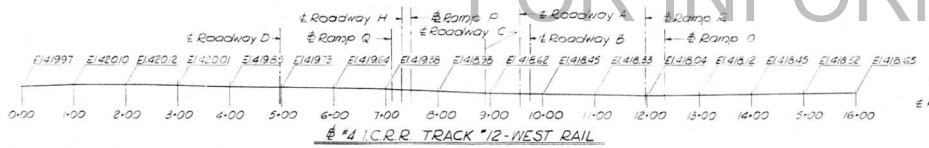

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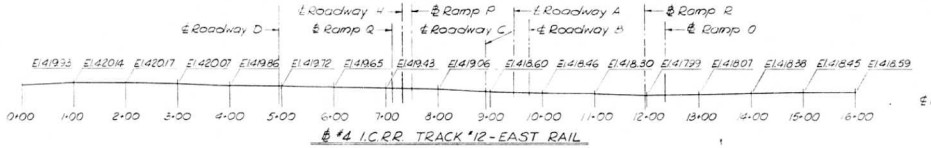
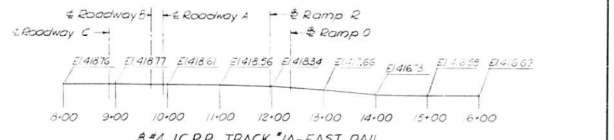


℄ #4 I.C.R.R. TRACK "12 - EAST RAIL

℄ #4 I.C.R.R. TRACK "1A - WEST RAIL



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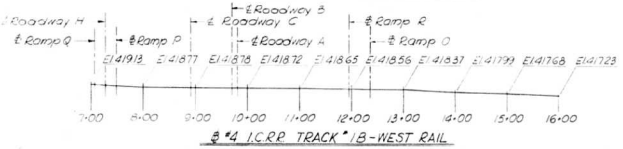

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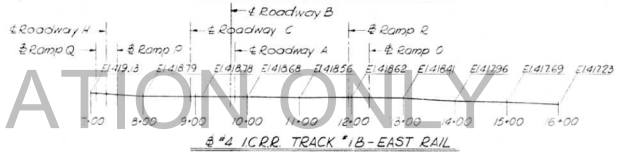

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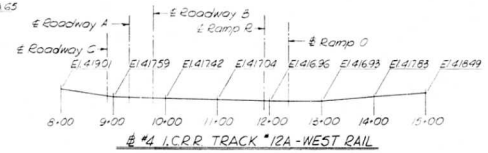

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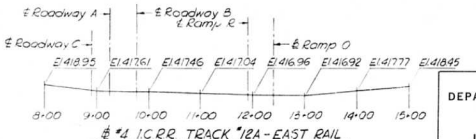


℄ #4 I.C.R.R. TRACK "12A - EAST RAIL

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

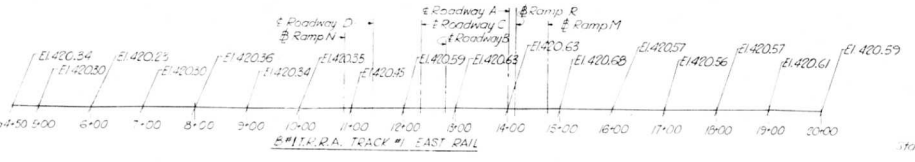
ILLINOIS CENTRAL RAILROAD

PROFILES

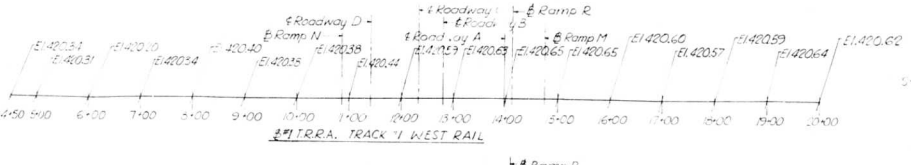
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-1

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

SHEET 461 of 526



℄#1 T.R.R.A. TRACK #1 EAST RAIL



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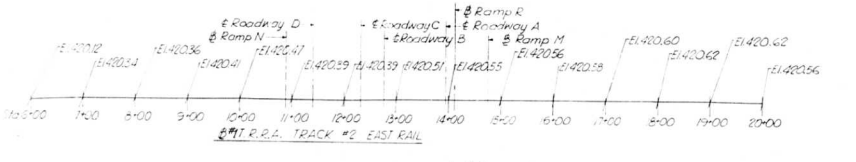

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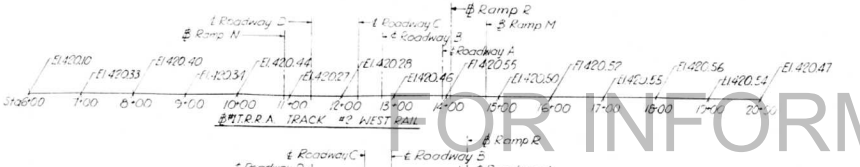

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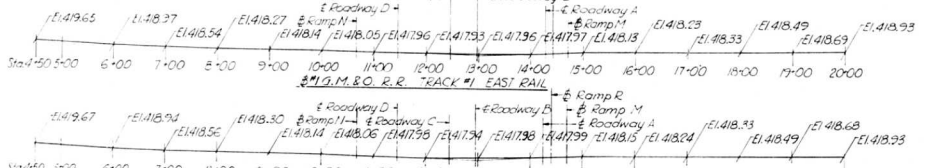

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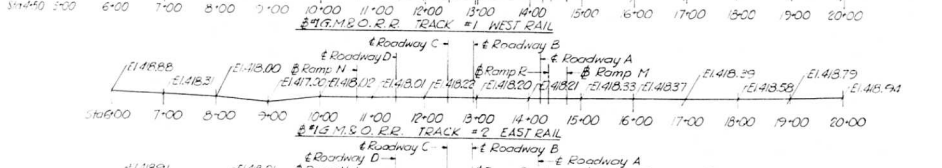

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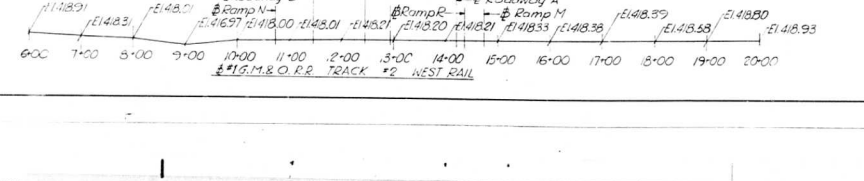

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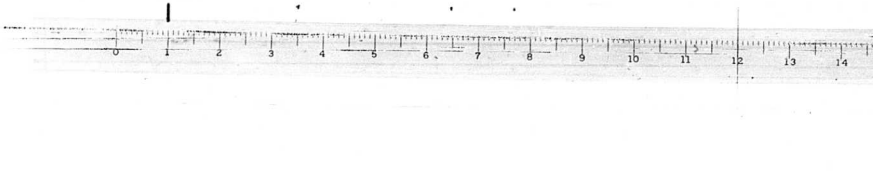

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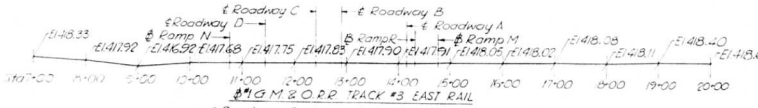

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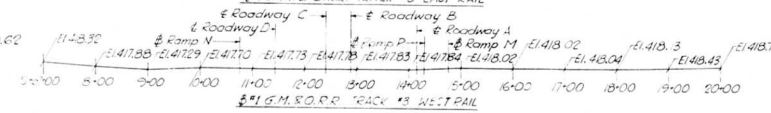

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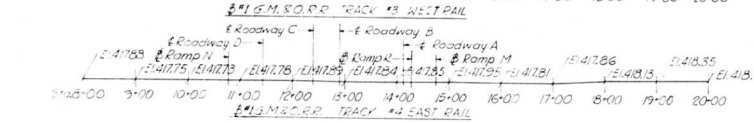

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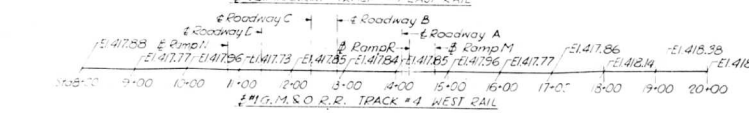

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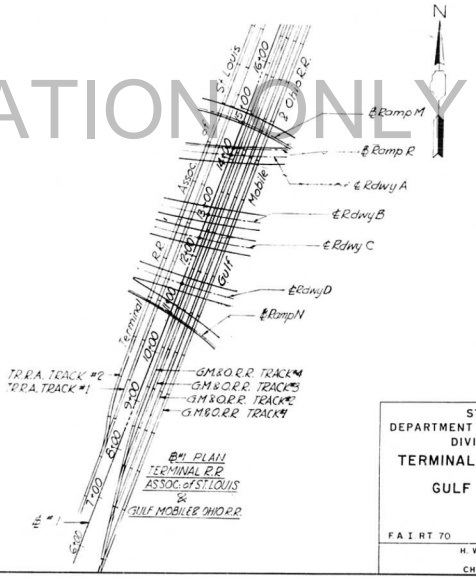


ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVB-1	ST. CLAIR	207	140
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

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

TERMINAL R.R. ASSOC. OF ST. LOUIS AND GULF MOBILE & OHIO R.R.

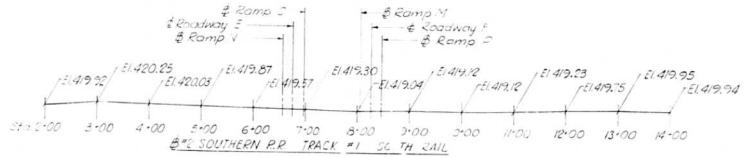
PROFILES

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

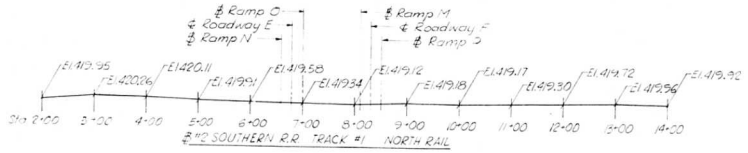
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 462 OF 526

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F A I 70	82-3HVB-1	ST. CLAIR	207	141
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



℄ "E SOUTHERN R.R. TRACK #1 SOUTH RAIL



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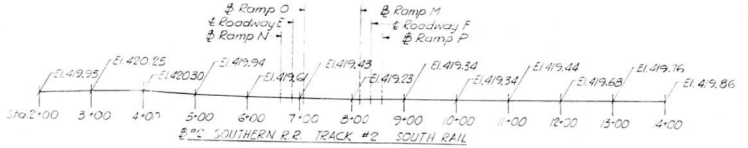

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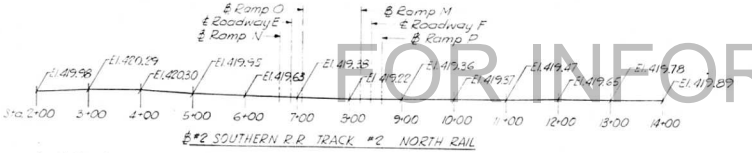

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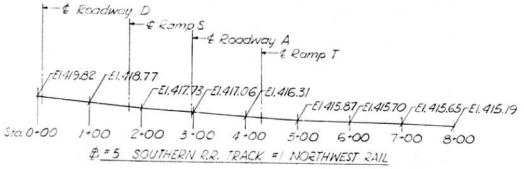

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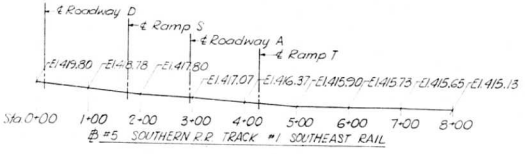

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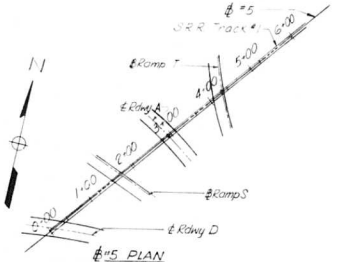
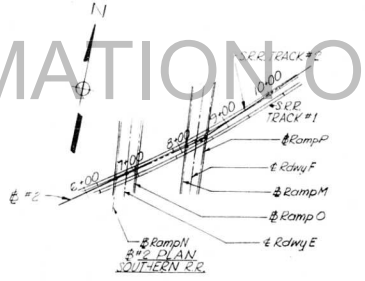


℄ "5 PLAN SOUTHERN R.R.



℄ "2 PLAN SOUTHERN R.R.

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

SOUTHERN RAILROAD

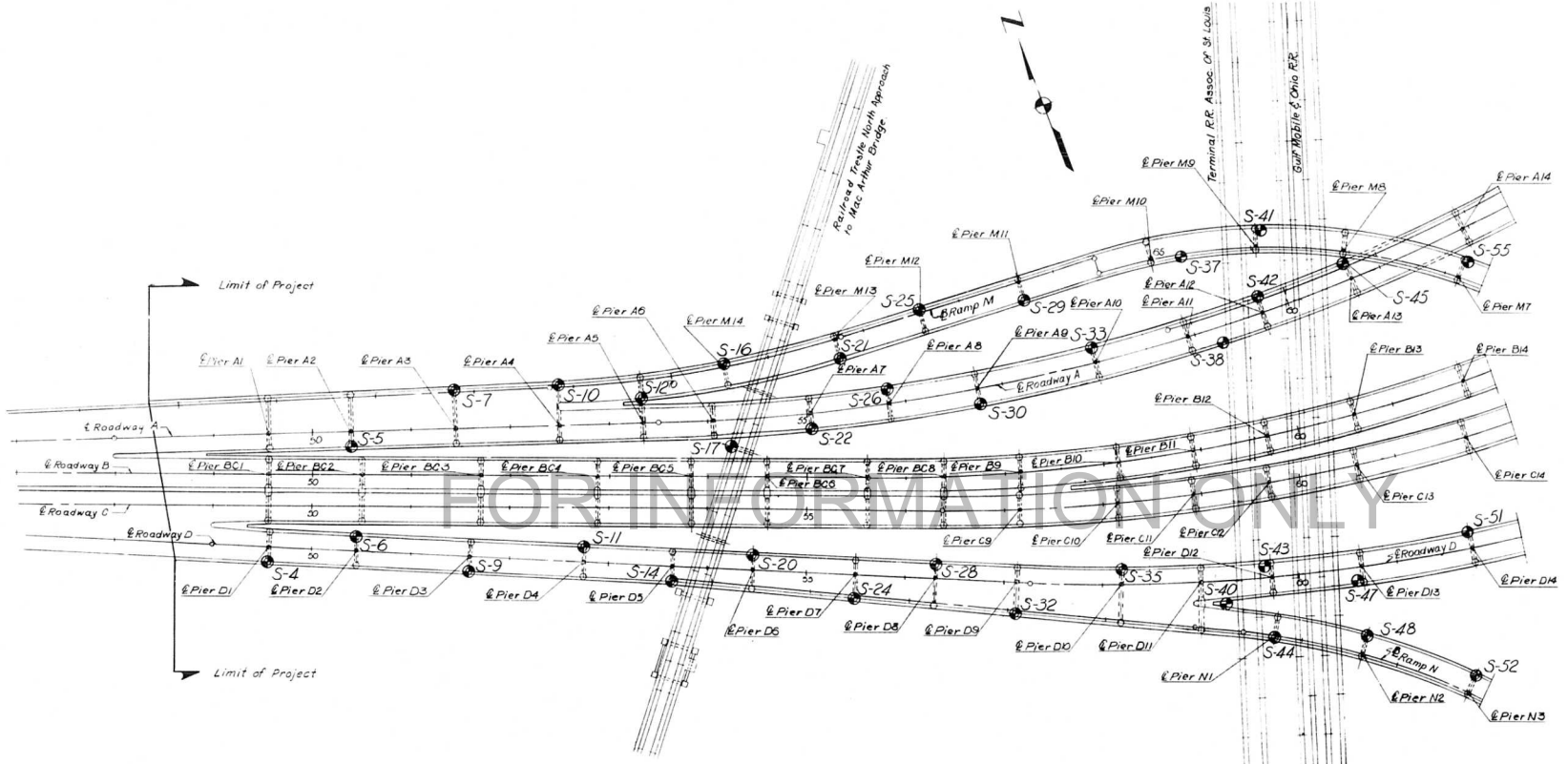
PROFILES

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

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

SHEET 463 OF 526

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82-3HVB-1	ST. CLAIR	207	142
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



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

POPLAR STREET BRIDGE APPROACHES

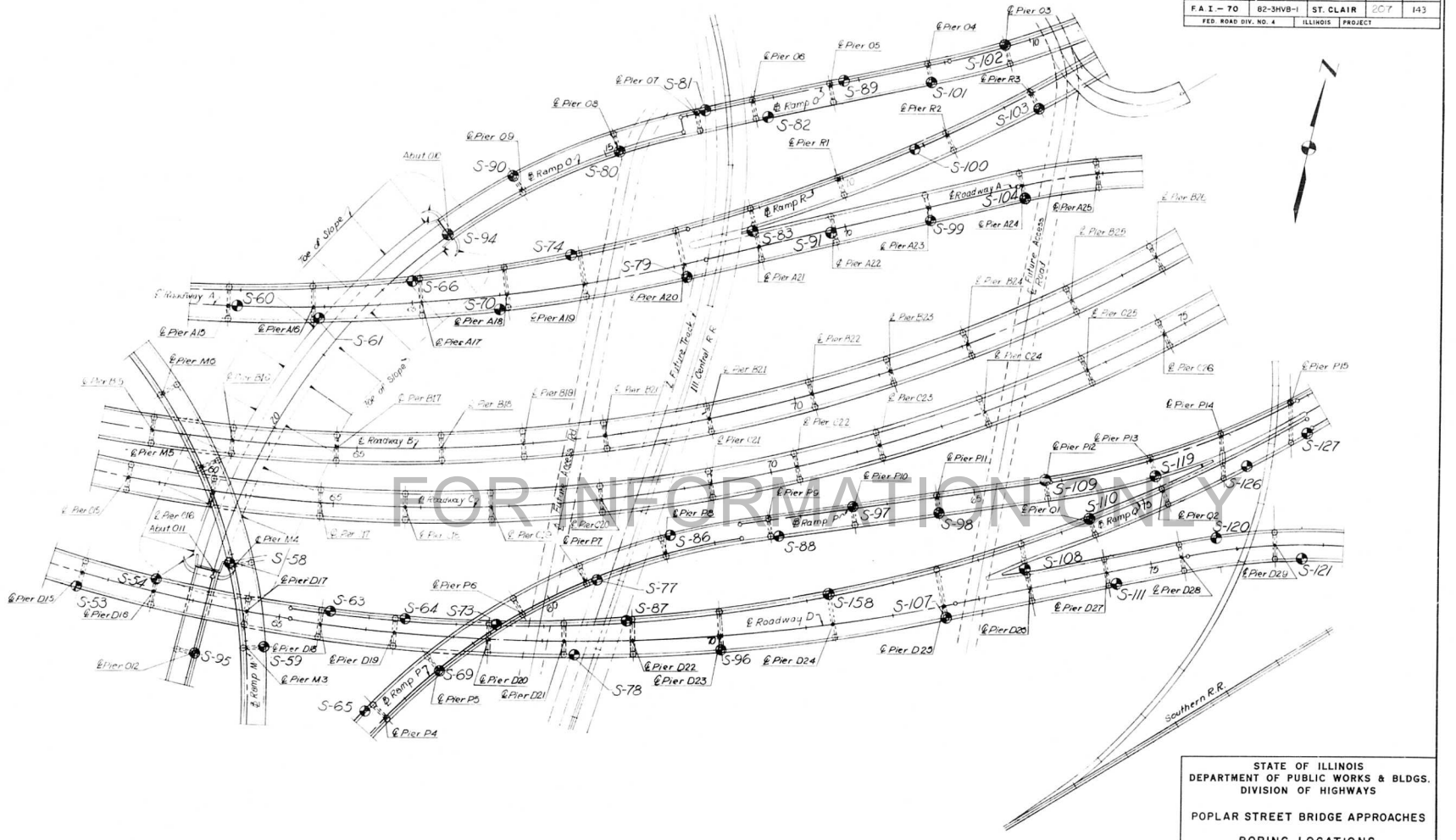
BORING LOCATIONS

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

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

SHEET 4640F 5S6

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.—70	82-3HVB-1	ST. CLAIR	207	143
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



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

POPLAR STREET BRIDGE APPROACHES

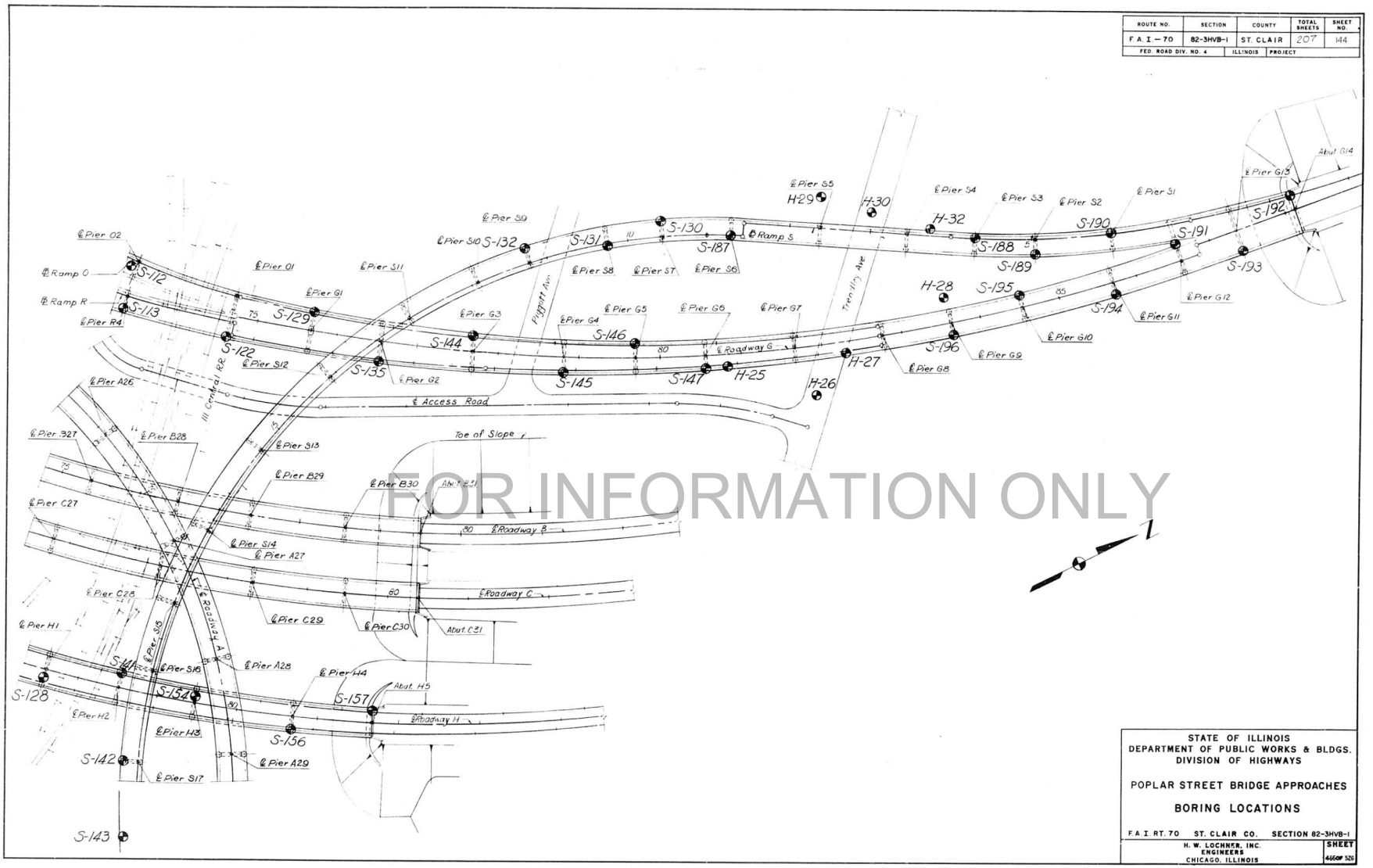
BORING LOCATIONS

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

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

SHEET 4 OF 5 SHEETS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I – 70	82-3HVB-1	ST. CLAIR	207	144
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	



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

POPLAR STREET BRIDGE APPROACHES

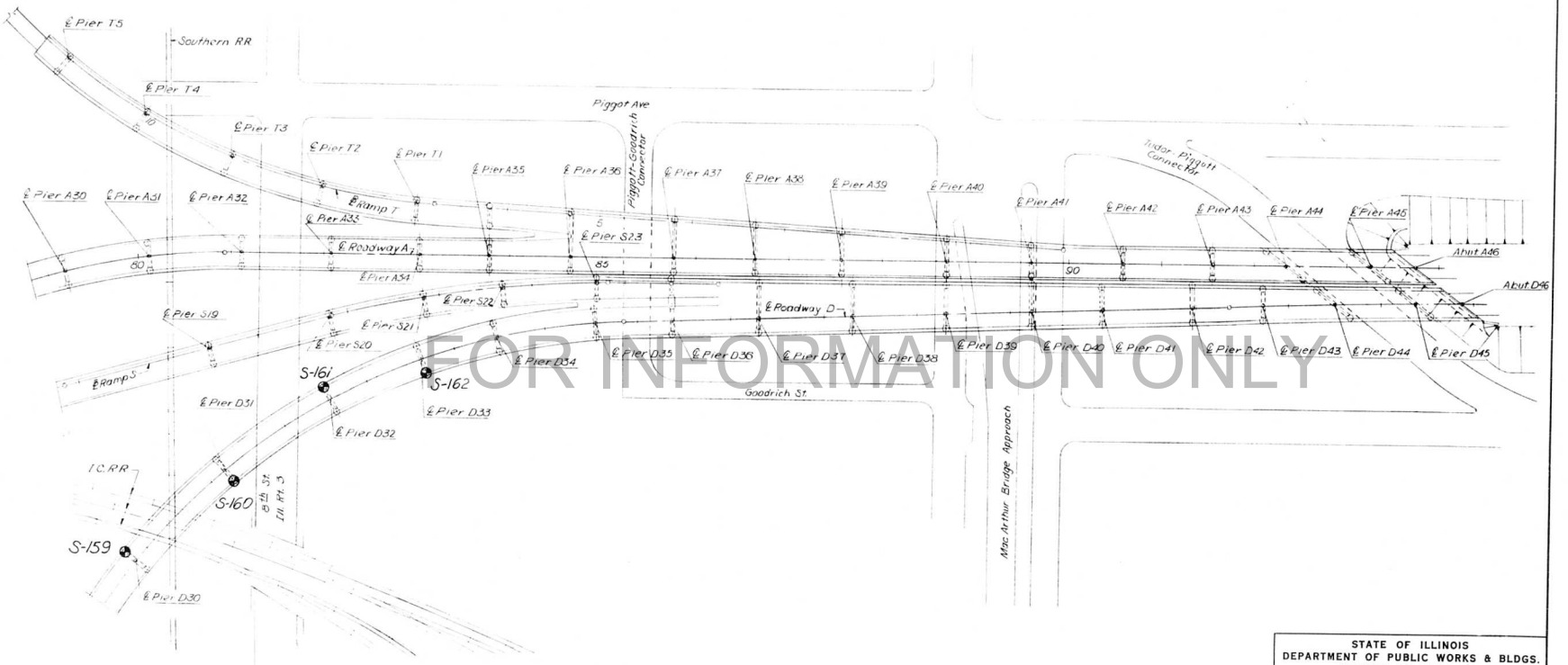
BORING LOCATIONS

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

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

SHEET 466 OF 526

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVB-1	ST. CLAIR	207	145
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



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

POPLAR STREET BRIDGE APPROACHES

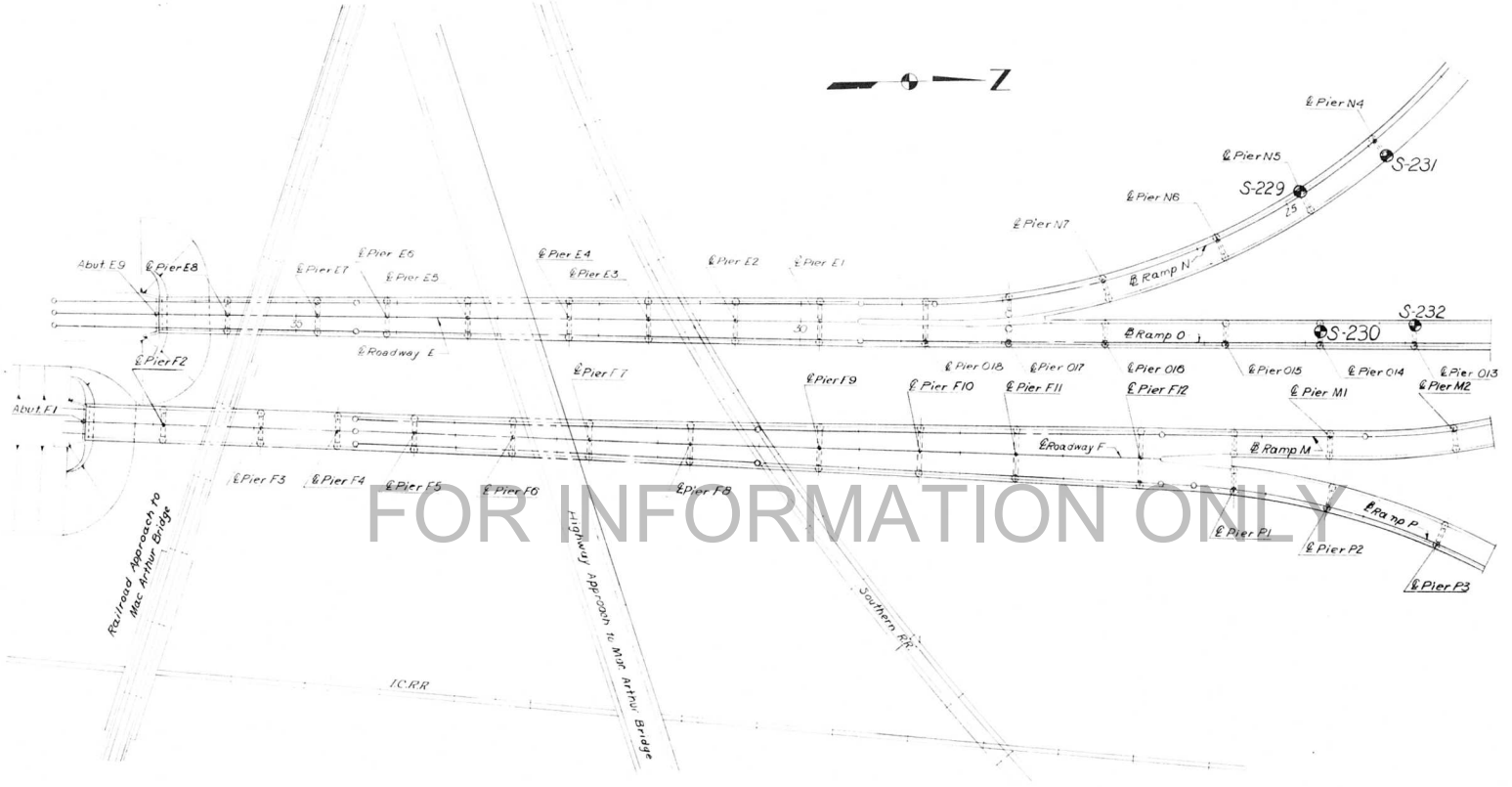
BORING LOCATIONS

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

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

SHEET
467 OF 526

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVB-1	ST. CLAIR	207	146
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



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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-1

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

SHEET 468 OF 526

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-1	ST CLAIR	207	147
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No.H-25

	Elevation	N	Qu t/sf	w %
Ground Surface	413.0			
Black Silty Clay Loam & Cinders	408.8			
Very Loose Mottled Silty Loam	406.3	2		
Loose Mottled Silty Loam	401.3	4		
Very Loose Brown Silty Loam	398.8	3		
		3	0.3	30
Soft Brown Silty Clay Loam		5	0.3	29
		7	Lost	
	388.8	3	0.5	48
Medium Gray Sandy Loam		25		
	381.8	21		
Loose Gray Silty Loam		8		
	376.8	27		
Medium Gray Fine Sand				
Very Dense Gray Fine Sand	374.3	64		
Dense Gray Fine Sand	373.8	44		
Very Dense Gray Fine Sand	371.3	77		
Medium Gray Fine Sand	368.8	35		
	-45			
Medium Gray Fine Sand	363.8	21		
	-50	18		
Dense Gray Fine Loam	361.3	31		
Very Dense Gray Fine Sand & Occasional Gravel	358.8	55		
	-55			
Medium Gray Fine Sand & Occasional Gravel	356.3	17		
Dense Gray Fine Sand	353.8	36		
	-60			
Medium Gray Fine Sand	351.3	28		
Dense Gray Fine Sand	348.8	30		
	-65			
Dense Gray Fine Sand & Occasional Gravel	346.8	24		
	-70			

BORING No.H-26

	Elevation	N	Qu t/sf	w %
Ground Surface	415.0			
Sand & Debris Fill	-5			
	409.5	6		
Loose Brown Sandy Loam	406.5			
Medium Mottled Clay Loam		5	0.6 S	31
	-10	5	0.6 S	31
	403.5			
Medium Brown Clay		5	0.7 S	29
	401.0			
Stiff Brown Clay	-15	9	1.3 S	37
	398.5			
Medium Mottled Silty Loam	-20	16		21
		14		24
	391.0	12		21
Loose Mottled Silty Loam	-25	9		
	388.5			
		19		
	-30			
Medium Fine Gray Sand		25		
	-35	24		
		29		
	376.0	18		
	-40			
Dense Gray Fine Sand	373.5	32		
Medium Gray Fine Sand	371.0	27		
	-45			
Dense Gray Coarse Sand		35		
	-50	31		
	363.5			
Medium Gray Coarse Sand		29		
	-55	24		
	358.5			
Dense Gray Coarse Sand & Small Gravel		42		
	-60	42		
	353.5			
Medium Gray Coarse Sand & Small Gravel		24		
	-65	27		
	346.0	22		
Dense Gray Fine Sand	-70	36		
	344.0			
	-75			

BORING No.H-27

	Elevation	N	Qu t/sf	w %
Ground Surface	415.0			
Silt & Debris Fill	412.3			
Loose Gray Silty Loam	-5	6		
	406.3	4		
Stiff Mottled Silty Clay	-10	4	1.0 S	27
		4	1.5 S	25
	401.3			
Medium Brown Fine Sandy Loam	-15	24		
		13		
	-20	13		
	395.8			
Loose Gray Silty Loam	-25	9		
	388.8	8		
Gray Silty Clay		4		
	386.3			
Dense Gray Fine Sandy Loam	-30	44		
		32		
	381.3			
Medium Gray Fine Sandy Loam	-35	24		
	378.8			
Loose Gray Sandy Loam		12		
	376.3			
Dense Gray Sandy Loam	-40	38		
		31		
	371.3			
	-45			
Very Dense Gray Fine Sand	368.8	52		
Medium Gray Sand		31		
	366.3			
Loose Gray Sand	-50	8		
	363.8			
Medium Coarse Sand & Gravel		11		
	-55	17		
	358.8			
Dense Gray Fine Sand		31		
	356.3			
Very Dense Gray Fine Sand & Gravel	-60	51		
	353.8			
Dense Gray Sand & Gravel With Cobbles		37		
	-65	33		
	349.3			
	-70			

N – Standard Penetration Test – Blows per foot to drive 2' O.D. Split Spoon Sampler 12" with 140# hammer falling 30"

Qu – Unconfined Compressive Strength – t/sf

w – Water Content – percentage of oven dry weight – %

Type failure
B – Bulge Failure
S – Shear Failure
E – Estimated Value

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

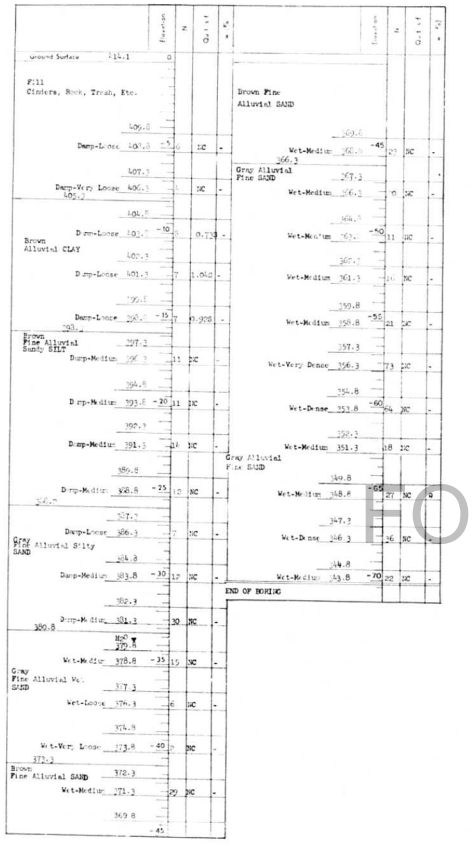
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-1

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

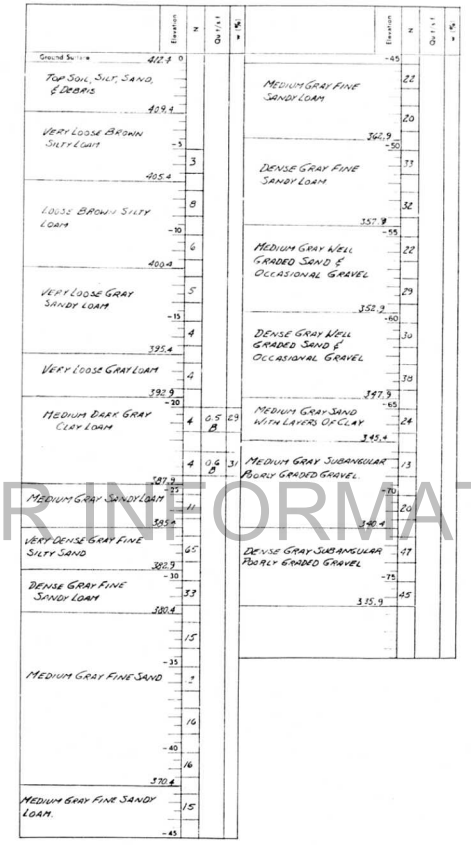
SHEET 469 OF 526

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F A I - 70	82-3HVB-1	ST. CLAIR	207	148
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

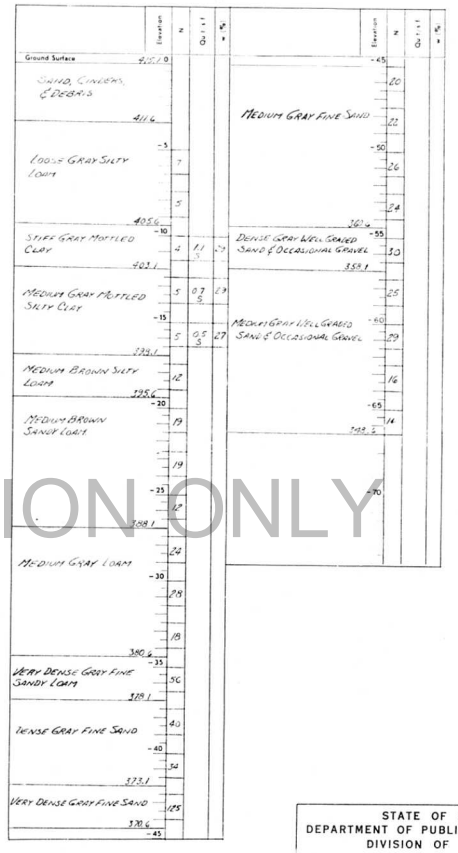
BORING No. H-28



BORING No. H-29



BORING No. H-30



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

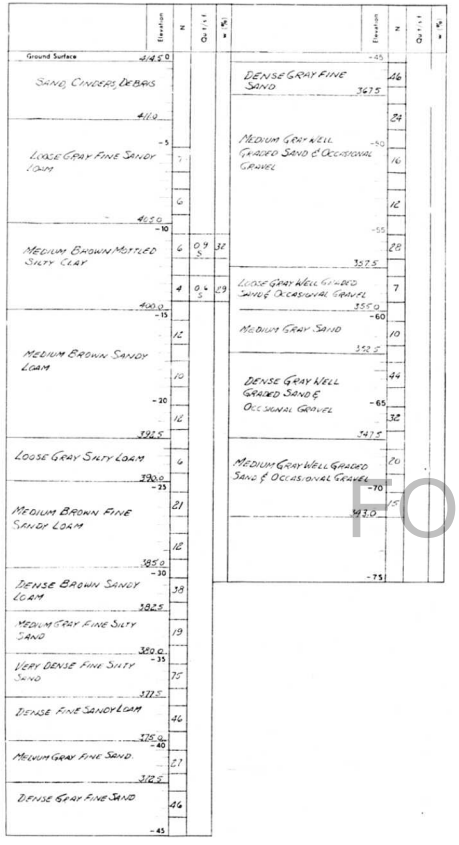
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVB-1

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

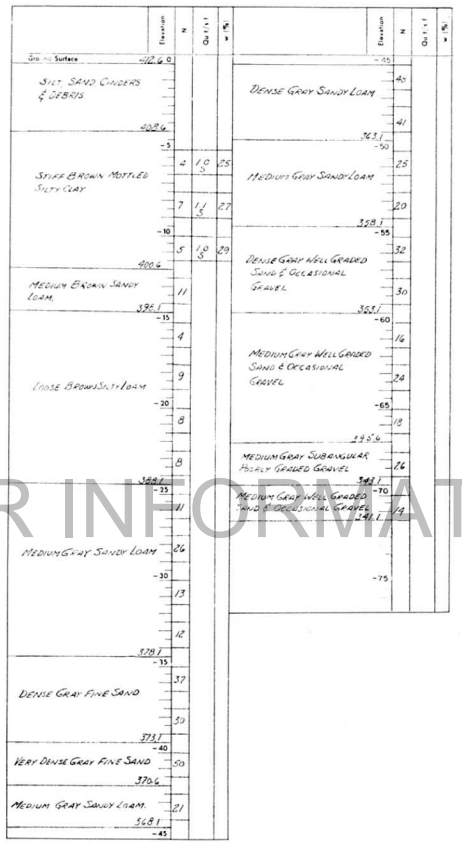
SHEET 470 OF 526

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.- 70	82-3HVB-1	ST. CLAIR	207	149
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. H-31



BORING No. H-32



N – Standard Penetration Test – Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140# hammer falling 30"

Qu – Unconfined Compressive Strength – t/sf

w – Water Content – percentage of oven dry weight – %

Type failure
B – Bulge Failure
S – Shear Failure
E – Estimated Value

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

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

SHEET 471 OF 526

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.I. – 70	82-3HVB-I	ST. CLAIR	207	150
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-4

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU T. S.F.	W %
Ground Surface	412.2 0			
Black	6			
	5	4		
Cinder		3		
	10	3		
Fill		4		
	15	3		
	394.2	3		
Dark Gray Clayey Silt Trace Fine Sand	20	2	1.48b	42
		2	1.57s	29
	347.7	25	7	.66b 38
Loose		21		
	30	80		
To		44		
Very	35	18		
Dense		5		
	40	30		
Gray		38		
Fine (continued)	45	54		

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU T. S.F.	W %
(continued)	47	40		
To	50	57		
Medium		65		
Sand	55	46		
		38		
	60	44		
Boring stopped by Inspector.				
WATER LEVEL 32'6"				

BORING No. S-5

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU T. S.F.	W %
Ground Surface	411.5 0			
Loose		5		
Black		3		
Cinder	5	5		
Fill	10	3		
	400.0			
Medium Yellow Brown Silty Clay		7	1.22s	21
	398.5	15	6	
Medium Gray Silty Clay		4	.65s	28
	393.0	20	6	.70s 30
Loose Gray Clayey Silt		3		.54s 37
Trace Very Fine Sand	388.0	25	4	
Soft Gray Silty Clay Trace Fine Sand	385.0		3	
Medium Dry Gray Fine to Medium Sand w/thin silt seams	382.5	30	16	
Medium Dry Gray Fine Sand and Silt	378.0	35	16	
Loose wet gray silt some fine sand, trace clay.	374.5		3	.29a 43 37
Medium wet gray sandy silt	371.0	40	16	
Dense wet gray fine to (continued)		45	44 38	

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU T. S.F.	W %
(continued)	47	38		
Medium Sand	50	43		
	362.5			
Medium to Dense Wet Gray Fine to Coarse Sand	55	32		
	60	47		
	351.5	19		
Medium To Very Dense Wet Gray Fine To Medium Sand	65	31		
	70	60		
	341.0	40		
	71	23		
	75	20		
Boring stopped by inspector.				
WATER LEVEL 36'0"				

BORING No. S-6

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU T. S.F.	W %
Ground Surface	412.6 0			
Dark brown Cinders, Sand and Miscellaneous Fill	5	3		
	6			
	406.1			
Stiff Brown Silty Clay	10	10		7
	401.6			
Stiff Yellow Brown Silty Clay	16			13
	399.1			
Soft Brown Silty Clay Trace Fine Sand	15	4		21
	20	4		30
		3		30
		3		36
	388.1			
Medium Moist Brown Fine Sand, trace Silt	25	17		
	384.6	11		
Moist Brown Fine Sand	30	12		
	380.1	13		
Loose to Medium Wet Gray Sand Some Silt	35	12		
	40	6		
	372.6	26		
Medium to Dense Wet Gray (continued)	45	25		

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU T. S.F.	W %
(continued)	47	14		
Fine to Medium Sand	50	33		
		14		
	55	18		
	365.1			
Dense wet Gray Sand Some Gravel	60	35		
	350.6			
Dense to Very Dense Wet Gray Sand, Trace Silt, and Small Gravel	65	53		
	70	46		
	342.6	33		
	75	77		
	337.6	34		
Boring stopped by Inspector.		51		
WATER LEVEL 33.5				

N = STANDARD PENETRATION TEST NUMBER - BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 30" WITH 140 LB. 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-I

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

SHEET 412 OF 586

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.I - 70	82-3HVB-1	ST. CLAIR	207	151
FED ROAD DIV NO. 4	ILLINOIS	PROJECT		

BORING No. S-7

IDENTIFICATION	ELEV. DEPTH	N BLOWS T.S.F.	QU T.S.F.	W %
Ground Surface	393.4 0			
Soft Brown Silty Clay	389.4 4	2		30
Loose Brown Sandy Silt	387.4 6	5		21
Loose Brown Clayey Silt	383.7 9.7	4		21
Gray Medium Clayey Silt	381.4 12	3		26
Loose Brown Silty Sand	379.9 13.5	8		29
Medium Moist Gray Sand, Trace Silt	370.4 23	13 21 15 20 17		
Medium wet Brown & Gray Medium to Coarse Sand	361.9 31.5	25 30 24 30 15		
Medium wet Gray Coarse Sand, Trace Small Gravel	354.9 38.5	17 35 9 15		
Loose wet Gray Sand, some pieces of wood and small Gravel	349.4 44	40 8 6		
Gray Fine to Coarse		45 19		

IDENTIFICATION	ELEV. DEPTH	N BLOWS T.S.F.	QU T.S.F.	W %
(continued)	47	24		
Sand, Trace Small Gravel	343.4 50	50 31		
Dense to V. Dense Wet Gray Medium Sand Trace Gravel	335.9 57.5	55 48 55 58		
Dense to V. Dense wet Gray Fine Sand	323.4' 70	60 40 49 65 34 43		
Boring stopped by Inspector.		70		
WATER LEVEL 19.5				

BORING No. S-8

IDENTIFICATION	ELEV. DEPTH	N BLOWS T.S.F.	QU T.S.F.	W %
Ground Surface	391.2 0			
Loose Brown Silty Clay with Miscellaneous Fill Trace Fine Sand	380.2 11	7 5 8 10 3		26 29 29 41
Soft Grey Silty Clay	376.7 14.5	2		
Medium Moist Gray Fine to Medium Sand, Trace Silt	367.7 23.5	15 11 16 20 22 27		
Medium to Dense Gray Medium to Coarse Sand, Trace Silt	360.7 30.5	25 32 30 9 11 35 7 9 40 8 14 45 30		
(continued)				

IDENTIFICATION	ELEV. DEPTH	N BLOWS T.S.F.	QU T.S.F.	W %
(continued) Small Gravel	347 47	29		
Gravel	338.2 53	50 38		
Very Dense wet Gray Fine to Medium Sand, Trace Silt	335.2 56	55 87		
Dense Very Wet Gray Fine Sand, Trace Silt	330.2 61	32		
Dense wet Gray Fine to Medium Sand	327.7 63.5	39		
Very Dense wet Gray Fine Silty Sand, Trace Clay	323.7 67.5	65 71		
Boring stopped by Inspector.		71		
WATER LEVEL 15.5				

BORING No. S-9

IDENTIFICATION	ELEV. DEPTH	N BLOWS T.S.F.	QU T.S.F.	W %
Ground Surface	394.7 0			
Stiff Brown Silty Clay & Fill	392.2 2.5	8		32
Stiff Brown Silty Clay and Fine Sand	389.7 5	8		15
Loose Brown Silty Sand	387.2 7.5	9		
Medium Brown Silty Clay Trace Fine Sand.	384.7 10	8		38
Soft Gray Silty Clay	382.2 12.5	5		40
Medium Damp Gray Sand, Trace Silt	377.2 17.5	15 15		
Medium to Dense Wet Gray Fine Sand	367.2 27.5	18 20 27 40 25 33 34		
Dense to Medium Gray Coarse Sand and Small Gravel	354.7 40	46		
Very Dense wet Gray Sand	352.2 42.5	16		
Loose wet Gray Sand	359.7 35	90		
Medium Wet Gray Fine to Coarse Sand	357.2 37.5	8 40 12 13 45 17		
(continued)				

IDENTIFICATION	ELEV. DEPTH	N BLOWS T.S.F.	QU T.S.F.	W %
(continued) & Small Gravel	47.2 47	15		
Dense To Very Dense Moist Gray Fine Sand	50	48 68 55 83 32 60 65 41 65 32 41		
Boring stopped by Inspector.	324.7 70	61		
WATER LEVEL 19.5				

H - STANDARD PENETRATION TEST NUMBER - BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140# 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

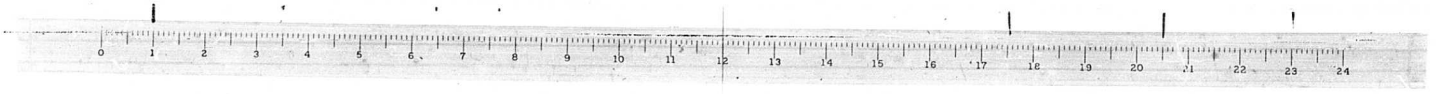
POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

H.W. LOCHNER, INC
ENGINEERS
CHICAGO ILLINOIS

SHEET
473 526



ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.I – 70	82-3HVB-1	ST. CLAIR	207	152
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-10

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	402.4 0			
Stiff Brown Silty Clay	399.4	11		
Medium Dry Brown Silt	5	11		
	396.4			
Medium		6		27
Brown				
Silty	12	6	.578	33
Clay				
	6		.748	22
	389.4			
Soft to Medium Gray Silty Clay	15	3	.508	35
	384.4			
	7		.098xB	35
Medium Moist Gray Sand	20	13		
	381.4			
Dense Gray Fine Sand some silt		51		
	378.9			
Medium Gray Medium Sand	25	27		
	376.4			
Dense wet Gray Fine Sand, trace Clayey silt.	379.4	48		
Dense	10	32		
to				
Very		26		
Dense	35	37		
wet		64		
Gray	40	76		
Medium		65		
Sand,				
Trace	45	62		
(continued)				

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(continued)	47	57		
Silt.	352.9			
Medium to Dense wet Gray Fine to Coarse Sand, and trace silt and small gravel.	50	25		
	349.9	42		
Boring stopped by inspector.				
WATER LEVEL 25.0				

BORING No. S-11

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	407.2 0			
Stiff		15		20
Brown				
Silt	5	12		6
with		13		23
Clay				
	10	8		26
	396.2			
Medium Brown Silty Clay		8		30
	393.7			
Medium		15	7	185 29
Gray &				
Brown		6		29
Silty		20	4	32
		4	.148xB	21
Clay				
	382.4	25	11	148 37
Medium To Dense Gray and Brown Fine to Coarse Sand		20		
	375.2	30	34	
				34
Dense wet Gray Fine to Medium Sand		35	29	
	371.2			
Medium to Dense wet Gray Coarse Sand		40	15 44	
	360.2			
Dense wet Gray and Brown Medium Sand			48	
	362.2	45	47	
Dense wet Fine to Medium (continued)				

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(continued) Gray Sand	47	46		
	359.2			
V. Dense to Dense Moist Gray Fine Sand	50	100		
				41
	353.7			
Medium wet Brown and Gray Coarse Sand, Some Gravel.		55		13
				14
				28
	346.2			
Medium wet Brown and Gray Coarse Sand, some Gravel				13
	343.2			
Dense Brown & Gray Fine to Medium Sand		65		32
	341.2			
Dense Moist Gray Fine Sand				46
	337.2	70		43
Dense wet Brown & Gray Coarse Sand, Trace Gravel and Silt.				35
	334.2			
Dense wet Gray Fine to Medium Sand		75		47
	330.7			
Dense wet Gray Fine to Med Sand, trace silt	329.2			33
Dense to Very Dense wet Gray Fine Sand, Trace Silt.		80		49
				91
	324.2			
Medium wet Fine to Coarse Gray Sand.	322.2	85		29
Boring stopped by Inspector.				
WATER LEVEL 32.0				

BORING No. S-12

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	405.3 0			
Medium Brown Silty Clay	402.3	7		24
Loose Dry Brown Sand and Silt	399.3	5	6	
Medium		7	.328	29
Brown				
Sandy		10	4 .323	26
Clay				
		7		30
and				
Silt		15	4	
	389.3			
Soft Gray Clayey Silt		3		42
	386.3			
Loose		20	8	32
to				
Dense		29		
Gray		25	33	
Fine				
Sand		30		
	376.3			
		30	12	
Medium to Dense Gray wet Fine to Coarse Sand, Trace Silt		35		
		35	27	
			41	
		40	22	
			27	
	361.8			
Medium (continued)		45	117	

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(continued)	47	83		
to Very Dense wet Gray Fine Sand, Trace Silt.		50		44
				35
		55		26
	368.3			
Medium to Dense wet Gray Fine to Coarse Sand, Trace Silt		60		23
	342.8			45
Boring stopped by Inspector.				
WATER LEVEL 27.5		65		

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-1

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

SHEET 474 OF 526

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.I – 70	82-3HVB-1	ST. CLAIR	207	153
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-13

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU	W %
Ground Surface	408.0 0			
V. Stiff Brown Silty Clay	401.2	18		16
Yellow and Brown Silt	402.0 5	28		11
Med. Yellow & Brown Sand, Trace Silt	399.5			13
Loose Brown & Yel. Silty Clay	398 5			
Medium Brown Silty Fine Sand	397.0 10			8
Medium Brown Fine Sand with Silt Seams	395.4			11
Medium Gray Silty Clay Silt and Sand Seams	392.5 15			12
Medium Brown Fine to Medium Sand	389.5			22
Medium Brown and Gray Fine to Medium Sand	384.0 20			25
Dense Yellow and brown Fine to Coarse Sand	382.0 25			34
Dense Yellow and brown Coarse Sand	372.0 30			39 28
Medium Gray and brown Medium to Coarse Sand to Silt	372.0 35			22 30
Medium to very Dense Gray Coarse Sand, Trace Silt & Organic Matter	367.0 40			27 69
Medium to very Dense Grey Fine to (continued)	45			69 25

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU	W %
(continued)	47			24
Medium Sand, Trace Silt.	50			41
Boring stopped by Inspector.				
WATER LEVEL 27.0				

BORING No. S-14

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU	W %
Ground Surface	407.9 0			
Medium to Loose Brown Silty Clay, Some Sand	401.9 5	16		11 12
Loose Brown Silty Fine Sand, Trace Clay	395.4 10	8		
Loose Brown and Gray Silty Very Fine Sand	390.9 15	10		10
Gray Fine Sand with Clayey Silt Seams	388.9			6
Medium Brown Medium to very Dense Gray Fine to (continued)	376.9 45	20 25 30 35 40 45		26 13 2 30 22 38 41 49 31 32

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU	W %
(continued)	47			43
Medium Sand	50			51 22
Boring stopped by Inspector.	352.9 55			120
WATER LEVEL 29.5				

BORING No. S-15

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU	W %
Ground Surface	407.0 0			
Medium Brown Clayey Silt	401.7	7		17
Loose Brown Silty Fine Sand	397.0 10	5 6		
Loose Gray Fine Sand, Trace Silt and Small Gravel.	391.0 15	3 7 5		32
Medium Damp Brown and Gray Fine to Medium Sand, Trace Silt and Small Gravel.	381.0	20 25 30		14 21 19 27 19
Medium Damp Brown Fine to Medium Sand, Trace Silt and Small Gravel.	376.0			18
Medium wet Grey fine to Medium Sand	369.0	35 40		17 23 24
Medium to Dense wet Gray Fine Sand, Trace Silt	361.0	40 45		20 50 47

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU	W %
Medium Dense Med. to Coarse Sand, tr. silt & Gravel.	359.5	47		18
Medium wet Gray Fine to Coarse Sand, some gravel, trace silt.	355.5	50		18
Medium wet Gray Fine to Coarse Sand Some Clayey Silt	350.5	55		20
Medium to Dense wet Grey Fine to Coarse Sand Trace Small Gravel and Silt.	341.5	60 65		42 19 34
Very dense wet grey fine Sand, trace Silt.	339.5	70		62
Boring stopped by Inspector.				
WATER LEVEL 29.0				

N – STANDARD PENETRATION TEST NUMBER – BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140# WT. FALLING 30"

QU – UNCONFINED COMPRESSIVE STRENGTH

W – WATER CONTENT % OVER DRY WEIGHT

TYPE FAILURE
B – BULGE
S – SHEAR
E – ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

H. W. LOCHNER INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 475 OF 526

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.I - 70	82-3HVB-I	ST. CLAIR	207	154
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-16

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU	W %
Ground Surface	407.0	0		
Loose Brown Silty Clay, Some Sand	406.0	10		23
Medium to Loose Damp Brown Clayey Silt	397.0	10		6
Loose Damp Brown Sand Trace Clay and Silt.	392.5	8		
Loose Brown silty sand	391.0	15	5	32
Medium Damp Gray Sand, Some Silt	388.0	8		
Medium to Dense Damp Brown Sand, Trace Silt	380.0	20	11	32
		25		38
Medium damp to moist fine to coarse brown Sand, trace gravel and silt.	376.0	30		17
Medium wet Gray Fine to Coarse Sand, Trace gravel and silt.	374.0	35		29
Medium to Very Dense Gray Fine Sand, (continued)	367.0	40		26
		45		7

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU	W %
(con'd) Silt.	359.647	20		
Medium wet Gray Fine to Coarse Sand, Trace Gravel & Silt.	324.5	50		12
		55		33
		60		35
		65		30
		70		35
V. Dense wet Gray Fine Sand	329.5	75		55
Medium wet Gray Fine to Coarse Sand, Trace Small to Medium Gravel & Silt.	324.5	80		27
Boring stopped by Inspector.		85		51
WATER LEVEL 29.5				

BORING No. S-17

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU	W %
Ground Surface	407.6	0		
Stiff Dark Brown Silty Clay	406.1	8		26
Medium to Loose Damp Brown Silty Very Fine Sand, Trace Clay	393.1	5		15
		10	3	32
		15		18
Medium Damp Brown Fine Sand, Trace Silt.	375.6	20		21
		25		23
Medium wet Gray Fine Sand, Trace Silt.	371.6	30		22
		35		23
Medium to Dense wet Gray Fine to Coarse Sand, Trace Silt.	364.6	40		42
		45		33
Loose to Dense wet Gray Fine Sand, (continued)		45		10

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU	W %
(continued)		47		32
Trace Silt	359.1			
Medium Wet Gray Fine to Coarse Sand, Trace Silt	356.6	50		22
Medium wet Gray Fine to Coarse Sand, Trace Gravel & Silt.	351.6	55		16
		60		15
		65		35
Medium to Very Dense wet Gray Fine to Coarse Sand, Trace Silt and Organic Matter.	331.6	70		67
		75		49
Very dense wet Gray fine sand	330.1	80		25
Boring stopped by Inspector.				35
WATER LEVEL 31.0				30
				25
				51

BORING No. S-18

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU	W %
Ground Surface	408.1	0		
Miscellaneous Fill with Brown Silty Clay, some fine sand, concrete and limestone fragments	394.6	9		23
		5		6
		10		5
		15	6	23
Loose to Medium Damp Brown Fine Sand, trace silt.	382.1	20		12
		25		7
Dense damp brown fine to coarse Sand, trace silt.	375.1	30		22
		35		29
Dense to very dense wet gray fine to coarse Sand, trace silt.	362.1	40		31
		45		35
		50		48
		55		68
		60		38
		65		31
		70		35
		75		68
medium (continued)				

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU	W %
(continued)		47		
Sand, trace silt.	358.150	— 69		
		— 71		
Boring stopped by Inspector.				
WATER LEVEL 34				

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-I

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

SHEET 476 OF 526

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.I. – 70	82-3HVB-1	ST. CLAIR	207	155
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-19

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
Ground Surface	406.7	0		
Loose Brown Silt and very fine sand	401.2	10		30
Medium Dry brown and gray silt, trace fine sand	398.2	5		13
Loose damp brown Silt, trace clay, some fine sand.	392.9	10		29
Medium Dense Damp yellow and brown medium Sand,		15		37
trace silt.	378.7	25		21
Medium wet yellow and brown fine to medium Sand, trace silt.	375.2	33		16
Dense to loose wet gray fine sand, trace Silt.	371.2			30
Loose wet gray fine to coarse sand, trace silt.	366.7	35		10
Medium to dense wet gray fine	361.7	40		7
(continued)		45		24 19

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
coarse Sand, trace gravel, and silt	352.7	47		14
		50		14
				34
Dense wet gray fine to medium Sand, trace silt.	348.7	55		38
				50
Medium to dense wet gray fine to coarse Sand, trace gravel and silt.	341.7	60		24
		65		42
V. Dense moist gray fine to medium Sand, trace silt.	337.7			54
Very Dense wet gray fine sand, trace silt.	335.7	70		43
Dense wet, gray fine Sand	333.5			35
Medium Dense wet, gray fine to coarse Sand, trace silt and gravel.	328.2	75		25
		80		35
				22
				34
Boring stopped by Inspector.		85		

WATER LEVEL 29.5

BORING No. S-20

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
Ground Surface	404.3	0		
Stiff Brown Clayey Silt.	404.8	12	1.443	17
Medium to loose damp brown silty Sand, trace clay	399.8	5	11	
		7		
Very loose dry brown fine Sand, some silt trace clay.	396.6	10		
Very loose brown silt.	393.8	2		21
Medium Brown fine to medium Sand, trace silt and small gravel.	372.3	15	16	32
		20	36	
		22		
		25	26	
		30	16	
		35	17	
		35	36	
Medium Dense wet gray fine to medium Sand, trace silt and small gravel.	368.3	40	23	
		45	26	
			38	
(continued)				

IDENTIFICATION (cont'd) Gravel.	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
	361.347	64		
Very Dense wet Dark Gray Fine Sand, trace silt.	355.8	50		43
		57		
Boring stopped by Inspector.				

WATER LEVEL 31.5

BORING No. S-21

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
Ground Surface	405.3	0		
Stiff Brown Silty Clay	401.3	17	.283	21 26
Loose yellow & brown Sand and Silt	399.3	5	7	14
Loose Moist Brown Silty Clay	397.3	8		28
Medium Damp yellow and brown silty fine Sand	394.8	10		26
Brown Silty medium Sand	391.8			
Medium				28
Damp				
Yellow		15		16
and				16
Brown				
Fine		20		26
to				
				24
Medium		25		27
Sand, trace silt.	374.8			28
		30		17
Medium wet gray very fine Sand	372.3			15
Medium wet gray fine to coarse sand, trace silt and gravel.	369.3	35		22
Medium wet gray fine to coarse Sand, some gravel, trace silt.	366.3	40		22 24
Medium wet gray fine to coarse sand, trace gravel.	362.3			19
Dense wet gray medium to coarse Sand, trace silt.	360.3	45		31
Medium wet gray medium to (continued)				

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
coarse Sand, trace silt.	356.3	47		27
Dense wet gray fine to coarse Sand, trace silt.	348.3	50		30
				52
		55		23
Medium to very dense gray fine to medium Sand, trace silt.	344.3			27
		60		74
Dense wet grey fine Sand, trace silt.	340.3	65		45 47
Boring stopped by Inspector.				

WATER LEVEL 29.0

N – STANDARD PENETRATION TEST NUMBER – BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140# WT. FALLING 30"

QU – UNCONFINED COMPRESSIVE STRENGTH
W – WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE
B – BULGE
I – SHEAR
E – ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

H. W. LOCHNER INC.
ENGINEERS
CHICAGO ILLINOIS

SHEET 477 OF 526

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.I – 70	82-3HVB-1	ST. CLAIR	207	156
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

BORING No. S-22

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
Ground Surface	405.7 0			
Stiff Brown Silty Clay	401.2		10	20
Loose brown very fine Sand, some silt.	399.7 5	9		
Loose Brown Very Fine Sand, Some Silt.	393.7 10	9	5	
Medium brown fine to medium Sand,	386.7 20	25	19	
Trace Silt.	371.7 23		17	
Dense brown fine to coarse Sand, trace gravel & silt.	369.7 30	31	30	
Medium grey fine to medium Sand, trace silt and gravel.	359.7 45	23	26	
Dense wet gray fine Sand, trace silt.	356.2 47	33	19	
Medium wet gray medium Sand, trace silt and gravel	352.7 50	33	23	
Dense wet gray fine to coarse Sand some gravel trace silt.	349.7 55	41	20	
Very dense wet gray fine Sand, trace silt.	337.7 65	60	59	
Dense wet gray fine to coarse Sand, trace small gravel.	335.7 70	41	62	
Boring stopped by inspector.			48	
WATER LEVEL 32.0			60	

BORING No. S-23

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
Ground Surface	405.3 0			
Medium Brown silty Clay	402.3 5	5	23	
Loose Damp brown very fine silty Sand,	396.3 10	6	30	
Medium Damp brown fine to medium Sand, trace silt.	386.3 20	20	14	
Medium brown fine to medium Sand, trace	374.3 30	3	17	
silt.		18	23	
Medium dense wet gray fine to coarse Sand, trace silt.	366.3 40	20	37	
Medium wet gray fine Sand.	361.8		28	
Medium Wet Gray (continued)	362.3 45	37		
(continued) fine to coarse Sand, trace silt, and small gravel.	348.3 55	47	20	
Dense moist gray fine Sand, trace silt.	342.8 60	50	24	
Boring stopped by inspector.		55	29	
WATER LEVEL 29.5		65	44	
			46	
			54	

BORING No. S-24

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
Ground Surface	405.5 0			
Medium brown silty clay	404.0			
Brown clayey silt, trace fine sand.	402.5	11		
Loose Brown Very Fine Sand, some silt.	394.5 10	7	4	12
Medium damp brown fine to medium Sand, trace silt.	376.5 25	12	25	
Dense gray fine Sand, trace silt.	374.5 30	24	18	
Medium to very dense gray fine to coarse Sand, trace silt.	361.5 45	32	15	
(continued) Medium to very dense gray fine to medium Sand, little gravel trace silt.	349.5 55	24	20	
Gray coarse Sand, some clay	347.5 60	29	11	
Dense to medium wet gray fine to coarse Sand.	330.5 75	54	25	
Boring stopped by inspector.		29	24	
WATER LEVEL 29.8		55	22	
		12	11	
		32	18	
		37	15	
		45	11	
		66	22	
		27	24	
		27	32	
		21	24	
			29	
			55	
			24	
			38	
			27	

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-1

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

SHEET 478 OF 526

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I - 70	82-3HVB-I	ST. CLAIR	207	157
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-25

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
Ground surface	404.9 0			
Medium moist brown Sandy Silty clay		12		26
	5	11		11
	398.9			
Medium moist brown very fine Sand and Silt	395.9	12		
Medium damp brown fine to medium Sand, trace silt	392.9	16		
Medium damp brown fine to medium Sand, trace silt		13		
		15	21	
		15		
	383.9	11		
Medium damp yellow & brown fine to medium Sand, trace silt	380.3	15		
Medium moist yellow brown fine to coarse Sand, trace silt and gravel		45	13	.695 21
	375.9	28		
Medium wet grey fine to medium Sand, trace silt		34	16	
			16	
Medium wet dark grey medium to fine Sand	370.4	35	20	
	368.9			
Medium wet grey fine to coarse Sand, trace gravel and silt		40	19	
	363.9			
Very dense moist grey very fine Sand, trace silt	360.4		79	
Dense wet grey fine to coarse Sand, trace small gravel (continued)		45	00	

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
(cont'd)				
Dense wet gray fine to medium Sand, trace silt with 1" seam black organic silt.	357 9.47			34
	355.1	50		38
Very dense wet gray fine to medium Sand trace silt.	350.9			78
Medium wet gray fine to coarse Sand trace fine gravel and silt	348.9	55		28
Very dense wet gray fine to medium Sand, trace silt.	344.9	60		55
		60		58
Boring stopped by inspector.				
WATER LEVEL 29.0				

BORING No. S-26

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
Ground Surface	404.9 0			
Stiff brown clayey Silt		10		23
Loose damp brown very fine Sand, some silt	401.9	5	7	
Loose damp brown very fine Sand, some silt	398.9	6		34
	395.9			
Medium damp brown fine to medium Sand, trace silt		10	18	
		15	24	
		15	21	
		20	17	
Medium Sand trace silt		18		
		18		
	375.9	30	17	
Medium wet grey fine to coarse Sand, trace gravel and silt.	348.9	35	23	
Medium		40	22	
to			12	
dense		45	27	
wet (continued)			35	

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
(continued)		47		23
gray fine to coarse Sand, trace gravel and silt.	338.4	50		36
		65		40
		65		29
		65		23
		65		49
		65		40
small gravel and silt.		65		90
Medium gray clayey Silt	335.9	12		27
Very dense moist grey fine to med. Sand, trace silt	333.9	70		47
Medium wet gray fine to coarse Sand, trace clayey silt seams.	328.9	75		29
Medium to very dense wet grey fine to coarse Sand, trace gravel and silt.	321.9	80		42
Medium wet gray coarse Sand, some gravel, trace silt	318.9	85		11
Medium wet gray fine to coarse Sand, and small gravel, trace silt.	304.9	90		27
		94		38
		95		62
		95		23
		95		32
Boring stopped by inspector.				
WATER LEVEL 27.)				

BORING No. S-27

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
Ground Surface	404.6 0			
Stiff Brown Clayey Silt trace fine sand.	401.1	9		26
Loose to medium brown fine Sand, and Silt.	396.1	5	6	
		10	19	
Medium brown fine to medium Sand, trace silt and small gravel.	376.6	10	17	
		15	17	
		15	16	
		20	10	
		25	16	
		30	15	
	368.6	35	31	
Medium to very dense wet gray fine to medium Sand, trace silt and small gravel		40	21	
		45	15	
(continued)			25	

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
(continued)		47		38
and silt		50		40
		50		38
		50		57
	347.1	50		27
Boring stopped by inspector.				
WATER LEVEL 29.9		60		

N - STANDARD PENETRATION TEST
NUMBER BLOWS TO DRIVE
2" O.D. SPLIT SPOON SAMPLER 12"
WITH 140 LB. WT. FALLING 30"

QU - UNCONFINED COMPRESSIVE STRENGTH
W - WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE
B - BULGE
S - SHEAR
E - ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

H. W. LOCHNER INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 4796

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-I	ST CLAIR	207	158
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-28

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	404.8 0			
Stiff brown silty Clay	402.0	8	1.15 Sab	20
Loose to medium brown very fine Sand, some silt.	395.3	5 6		
Medium brown fine to medium Sand, trace silt	375.6	10 14 16 15 20 17 18 25 17 28		
Medium wet gray fine to coarse Sand, trace silt.	363.8	30 28 22 35 17 16 40 15 16 45 16		
(continued)				

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(continued) gravel.	356.8	47 16		
Dense to very dense wet gray fine to medium Sand, trace small gravel and silt.	348.8	50 41 25 55 47		
Medium to dense wet gray fine to coarse Sand, trace silt and gravel.	341.8	24 60 27 31		
Medium gray clayey Silt.	338.3	65 6	1.24 S	35
Medium to dense wet gray fine to coarse Sand, trace silt.	323.8	27 20 20 38 72 37 22 80 32		
Dense moist gray fine to coarse Sand, some gravel.	321.8	111		
Dense wet gray fine to coarse Sand, some gravel.	313.8	85 31 31 90 38		
Dense wet gray fine to medium Sand, trace small gravel.	307.3	35 94 95 35		
Boring stopped by Inspector.		45		
WATER LEVEL 28.0		100		

BORING No. S-29

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground surface	405.9 0			
Black Silty Clay	392.6	9	2.07 B	20
Loose to medium damp brown very fine silty Sand	395.0	5 7 11 10		
Loose to dense damp brown very fine silty Sand.	379.0	24 15 9 6 20 21 31 25 4		
Loose moist brown fine to medium Sand, trace silt.	376.5	9		
Medium wet brown fine to coarse Sand-trace silt.	374.9	10		16
Gray silty fine Sand	374.5			
Medium wet gray fine to coarse Sand, trace small gravel and silt.	367.1	35		17 18
Boulder&Compact Sand	366.6			
Medium wet gray fine to coarse Sand, trace (continued)		40 32 45		24 17

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(continued)	47	16		
small gravel and silt.	352.0	50 17 20		
Soft Gr. Clayey Silt	351.4			
Dense wet gray fine to medium Sand, trace silt.	342.1	55 18 32 32 27	.283	25
Very dense wet gray fine to medium Sand, trace silt.	335.9 70	65 48 61 55		
Boring stopped by Inspector.				
WATER LEVEL 29.0				

BORING No. S-30

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	404.8 0			
Loose dark brown clayey Silt	402.3	8		26
Loose damp brown very fine Sand, some silt.	398.8	5 5		26
Medium damp brown fine to medium Sand, trace silt.	376.8	11 10 8 15 9 19 20 8 20 27		
Medium wet brown fine to coarse Sand trace silt.	374.8	10		17
Medium wet gray fine to coarse Sand, trace small gravel.	363.8	35 20 40 21 15 45 13		
(continued)				

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(continued) and silt.	47	16		
Dense to very dense wet gray fine to medium Sand, trace silt	351.8	50 30 47 55 56		
Very dense wet gray fine Sand, trace silt.	348.8	55 60 77 166 65 76		
Dense wet gray fine to coarse Sand, trace silt.	338.8	35		
Medium wet gray fine to coarse Sand, trace small gravel.	336.8	70		22
Boring stopped by Inspector.	334.8			
WATER LEVEL 28.5				

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-I

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

SHEET 480 OF 526

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.I – 70	82-3HVB-I	ST. CLAIR	207	159
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-31

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU	W %
Ground Surface	404.5 0			
Medium damp brown very fine Sand, some silt.	399.5 5	13		15
Loose to medium damp brown	10	12 9 8 10		
fine Sand, trace silt.	20	31		
	376.5	15		
Medium to dense wet gray fine to coarse Sand, trace silt and gravel & silt.	30	10 19 34 28 39 31 10		
(continued)	45			

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU	W %
(continued)	47			20
small gravel.	50			46
	353.5			
Dense wet gray fine Sand, trace silt.	349.5 55			43
Dense wet gray fine to coarse Sand, some small to large gravel.	343.5 60			41 44
Dense wet gray fine to medium Sand, some silt.	65			40 36 24
	70			35
	75			51 41
	80			57 14
boring stopped by inspector. WATER LEVEL 39.0				

BORING No. S-32

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU	W %
Ground Surface	404.2 0			
Loose moist brown silty clay	402.2	6		
Loose damp brown silty very fine Sand	398.2 5	10		21
Loose to medium damp brown very fine Sand, some silt.	10 15	7 17 9		
	385.2	9		
Medium brown fine to medium Sand, trace silt.	20 25	24 16 20 17		
Medium wet gray fine to coarse Sand	30 35	20 16 22		
	368.2			
Medium wet grey fine to coarse Sand, trace Lignite	365.2	22		
Grey fine to coarse Sand, trace small gravel & silt.	40 363.2	28		
Very dense wet grey fine to medium Sand, trace silt.	361.2	63		
Medium to dense wet grey (continued)	45	18		

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU	W %
(continued)	47			23
fine to coarse Sand, trace silt.	50			39
Gray fine Sand	351.2 352.7			
Medium to Dense wet gray fine to coarse Sand, trace small gravel and silt.	348.2 55			17 36
Very dense wet gray fine Sand, trace silt.	344.2 60			57 63
Boring stopped by inspector. WATER LEVEL 27.5				

BORING No. S-33

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU	W %
Ground Surface	404.6 0			
Black Topsoil	403.6			
Medium brown silty clay	402.1	6	1.28	24
Loose brown very fine Sand, some silt.	5 10 15	10 9 10 12		
Medium moist brown silty Sand with soft clay seams	387.6 20	8 12		33 21
Medium damp yellow & brown fine to med. Sand	382.7 381.1	11		20
Medium yellow & brown fine Sand, trace silt.	25	20		
white coarse sand with small gravel	371.6 369.6			27
Medium wet fine to coarse Sand, trace small gravel	30 35 40	21 26 20 26 22		
small gravel (continued)	45	30 22		

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU	W %
(continued) and silt.	47 349.6	16		
Dense to very dense wet gray fine to coarse Sand, trace silt and small gravel	50 55	44 43 34 58		
	344.6 60	111		
Boring stopped by inspector. WATER LEVEL 27.1				

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 IN % 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-I

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

SHEET 481 OF 526

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F A I – 70	82-3HVB-1	ST. CLAIR	207	160
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-34

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
Ground Surface	404.6	0		
Stiff brown silty clay	400.6	14	1.5	15
Loose damp brown silt	399.1	5		9
Medium brown sandy Silt, trace clay	395.6	11		
		10		7
Loose to medium damp silty very fine brown sand	388.6	12		11
Silty clay with fine sand.	383.6	9	1.0	33
Very dense to medium damp brown		20		70
very fine Sand. Loose brown x clay medium to coarse Sand, trace gravel and silt.	376.6	45		27
	373.6	30		7
Medium to dense wet grey fine to coarse Sand, trace small gravel and silt.	369.1	35		25
Dense wet xray fine to medium Sand, trace silt.	365.6			32
Medium wet xray coarse Sand, trace gravel.	363.6	40		21
Medium wet gray fine to medium Sand, trace silt x sml. gravel.	361.6			17
Medium wet gray coarse Sand, trace small gravel	358.6	45		19

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
Medium		47		24
to		50		45
dense				
gray				38
fine to		55		31
coarse				
Sand,				
trace				29
small		60		26
gravel				
and				37
silt.	339.6	65		99

Boring stopped by Inspector.

WATER LEVEL 42.0

BORING No. S-35

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
Ground Surface	404.0			
Topsoil	404.0			
Medium damp brown Silt, trace clay some very fine Sand.	398.5	16	2.1	23
Loose damp yellow & brown very fine Sand, trace silt.	388.5	10		
		7		
		10		3
		4		
		15		8
Medium moist brown fine Sand, trace silt.	385.5	15		26
Medium moist brown fine sand		20		15
trace silt.	378.5	45		22
Medium dense gray medium Sand, trace silt.	373.5	40		15
Medium dense wet gray fine to coarse Sand, trace small gravel and silt.	366.5	35		37
				31
Dense wet xray fine Sand, trace silt.	360.5	40		34
Medium wet gray coarse Sand, trace small gravel		45		17 18
(continued)				

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
(continued)		47		
and silt.	356.0			30
Medium wet gray fine to coarse Sand, and small gravel, trace silt	354.0	50		29
medium to very dense wet gray fine Sand, trace small gravel and organic matter.	347.0	55		28 42 55

Boring stopped by Inspector.

WATER LEVEL 28.5

BORING No. S-36

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
Ground Surface	405.0	0		
Black topsoil	404.0			
stiff brown clayey Silt.	401.5	10	2.4	23
Medium dry yellow and brown silty fine Sand	398.5	5		11
Loose		8		
yellow &		12		10
brown		5		
fine		15		10
Sand	388.5			
Dense damp yellow and brown Sand, trace silt.	385.0			32
Medium yellow & brown fine		20		8 17
Sand, trace silt.	378.0	25		12
Med. moist Br. fine to co. Sand & sml. gravel, tr. silt (x cream chur- red wood & debris)	376.5			18
Medium wet fine to coarse gray Sand, trace small gravel and silt.	362.0	35 40		32 22 29 17 17 21
Dense wet gray fine Sand, trace silt.	359.0	45		33

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
	47			
Medium to dense wet gray fine to coarse Sand, trace small gravel and silt.	344.0	50		16 12 30 29 33 32
Very dense gray fine silty		65		121 80 62
Sand	332.5	70		74 60

Boring stopped by Inspector.

WATER LEVEL 23.0

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-1

H. W. LOCHNER INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 482 of 526

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.I. - 70	82-3HVB-1	ST. CLAIR	207	161
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-37

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
Ground Surface	405.0	0		
Dark brown clayey silt.	403.0			
Loose damp brown silty very fine Sand.	401.0	4		23
Medium loose yellow and brown fine Sand, trace silt.	392.0	5	12	12
Loose damp brown fine Sand, trace silt.	389.8	12	10	
Medium damp gray & brown silty fine Sand, and Organic Matter.	383.2	20	17	
Med. stiff gr. & brn. silty v.f. Sand	382.2		12	
Medium gray and brown fine to medium Sand, trace silt.	377.0	25	15	23
Medium wet gray fine to coarse Sand, trace silt.	372.0	30	17	15
Medium wet gray fine Sand, trace silt.	365.0	35	24	31
Medium wet gray fine to coarse Sand, (continued)		45	16	23
(continued)		47		22
trace small gravel and silt.	354.5	50		44
Dense wet gray fine to medium Sand, trace silt.	347.0	55		48 42
Medium wet gray very fine Sand, trace silt.	335.0	60		28 25 60 53 53
Boring stopped by Inspector.				
WATER LEVEL 28.5				

BORiNG No. S-38

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
Ground Surface	419.4	0		
Black cinders, concrete and miscellaneous fill, trace sand.	400.4	5 10 15		7 11 12 9 8 9 10
Loose to medium yellow and brown very fine Sand, and Silt.	388.4	20 25 30		5 11 14 5
Loose to dense grey very fine Sand, trace silt.	378.4	35 40		5 7 49 48
Dense to very dense wet gray fine to medium Sand, trace silt.	373.9	45		39 51
Medium (continued)				
to dense wet gray fine to coarse Sand, trace small gravel and silt.	358.4	47 50 55 60		6 27 38 41 37
Medium wet gray coarse Sand, some clayey silt with small gravel.	355.9			16
Medium to dense wet gray fine to coarse Sand,	348.4	65 70		19 32 41
trace silt. Dense wet gray fine silty Sand.	346.4			48
Very dense wet grey fine to medium Sand, trace silt.	343.4	75	80	69
Very dense wet gray fine silty Sand.	339.4			65 49
Boring stopped by Inspector.				
WATER LEVEL 41.0				

BORING No. S-39

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
Ground Surface	419.1	0		
Cinders, bricks, concrete, silt & miscelleneous fill.	409.6	5 10		7 6 14
Loose to medium yellow brown clayey silt, trace fine sand.	404.4	15	3	23 27
Brown silty clay, trace fine sand.	397.6	20	5	1.09 2 38 13 27
Medium damp yellow and brown very fine Sand, trace silt.	384.8	25 30		24 16 16 23
Dense yellow and brown fine Sand.	382.6	35		44
Dense yellow & brown fine Sand, trace silt with organic matter seams.	377.1	40		41 32
Medium wet brown coarse Sand, trace small gravel & silt.	374.1	45		26 32
Medium (continued)				
(continued)		47 50 55 60		20 28 28 34 30 29
to dense wet gray fine to coarse Sand, trace small gravel and silt.	344.1	75		26 22 29 46 37 44
Boring stopped by Inspector.				
WATER LEVEL 41.8				

N - STANDARD PENETRATION TEST NUMBER - BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140# WT. FALLING 30"

QU - UNCONFINED COMPRESSIVE STRENGTH
W - WATER CONTENT % 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-1

H. W. LOCHNER INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 483 of 526

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.I – 70	82-3HVB-1	ST. CLAIR	207	162
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-40

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
Ground Surface	417.5 0			
Cinders,		7		
Bricks,	5	14		
Stone,		14		
silt and miscellaneous	10	10		
fill.	406.5	9		18
Medium moist yellow and brown fine silty, clayey Sand	15	13		24
	401.5	8		
brown silty clay, trace fine Sand	20	4		37
	396.0	7		30
Dense moist yellow and brown fine sand, trace silt.	25	31		18
	390.5	17		
Medium to dense moist yellow & brown fine sand, trace silt, with silt.	30	14		
	391.0	38		
Medium moist yellow & brown fine Sand, trace silt, organic matter noted.	40	21		
	378.5			
Medium wet yellow & brown fine to coarse Sand, trace small gravel and silt.		30		
	374.7	45		14
Dense wet gray (continued)				

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
(continued) fine to medium Sand, trace silt & gravel.	47	34		
	369.5	50		35
Medium to dense wet gray fine to coarse Sand, some small gravel, trace silt.	55	21		
	361.0			
		32		
Dense wet gray fine Sand, trace silt.	359.7	60		32
Gray coarse sand w/sml.gravel,tr.silt.	356.5			
Dense wet gray fine Sand, trace silt.		50		
	356.0			
Medium to dense wet gray fine to coarse Sand, with small gravel, trace silt.	65	23		
		34		
	342.0	75		41
		50		
Boring stopped by Inspector.				

WATER LEVEL 41.0

BORING No. S-41

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
Ground Surface	415.4 0			
Black cinders clayey silt, & miscellaneous	5	2		
Fill.	409.4	6		
medium loose brown fine sand, with clayey silt	10	11		
	405.4	9		
Medium dump yellow and brown fine Sand,	15	10		
	20	19		
	25	15		
		27		
		24		
		19		
trace silt.	30	21		
		30		
		33		
	35	30		
	379.4			
Medium moist gray fine Sand.	378.4	28		
Medium wet gray fine to medium Sand, (continued)	40	24		
	45	30		

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
(continued)	47	29		
trace small gravel and silt.	50	51		
	361.9	15		
Medium wet gray fine to coarse Sand, some small gravel, trace silt.	55	17		
	351.9	17		
Very dense wet gray fine Sand, trace silt.	350.4	60		28
Boring stopped by Inspector.	65	61		
		63		

WATER LEVEL 36.5

BORING No. S-42

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
Ground Surface	419.0 0			
Cinders,		2		
Silt,				
Gypsum,	5	13		
Limestone,		14		
silt, and miscellaneous	10	7		
Fill	406.0			
Loose moist yellow and brown very fine Sand, some silt.		10		16
	405.0			
Brown silty clay	15	4		42
	398.0	3		37
Loose to medium yellow and brown fine silty Sand.	25	10		38
	393.0	7		21
Loose moist gray fine silty Sand, trace clay	391.0	12		
Medium to dense damp yellow and brown fine silty sand.	30	18		
	381.0	14		
		35		
		34		
		46		
Dense moist brown fine to moist Sand, trace silt.	40	50		
	376.0	38		
Dense wet gray fine to (continued)	45	48		

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
(continued) medium Sand, trace small gravel and silt.	47	63		
	365.5	50		33
Dense wet gray fine to coarse Sand, some small gravel, trace silt.	55	25		
	351.5	65		32
Boring stopped by Inspector.		63		24
		35		16

WATER LEVEL 41.0

N – STANDARD PENETRATION TEST NUMBER – BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140# WT. FALLING 30"

QU – UNCONFINED COMPRESSIVE STRENGTH
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TYPE FAILURE
B – BULGE
S – SHEAR
E – ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

H. W. LOCHNER, INC.
ENGINEERS
CHICAGO ILLINOIS

SHEET 454 OF 526

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.I.-70	82-3HVB-I	ST CLAIR	207	163
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-43

IDENTIFICATION	ELEV. DEPTH	N BLOWS T S.F.	QU	W %
Ground Surface	419.0 0			
Black cinders, clayey silt, crushed stone, & miscellaneous Fill.	410.5	2 5 9 9		
Loose yellow & brown fine silty Sand.	404.5	10 6		
Medium brown silty clay, trace fine sand.	399.7	15 6	1.44	22
Medium yellow and brown fine silty Sand	390.0	20 15 19 25 24 28		35
Medium yellow and brown fine Sand, trace silt.	385.5	30 18 21		
Dense yellow and brown fine silty Sand.	380.0	35 60 31		
Medium wet brown fine Sand, trace silt.	377.5	40 17		
Dense wet brown coarse Sand, some small gravel trace silt.	375.0	41		
Medium dense (continued)		45 41		

IDENTIFICATION	ELEV. DEPTH	N BLOWS T S.F.	QU	W %
(continued)		47 36		
wet gray fine to coarse Sand, trace small gravel and silt.	370.3	50 27 26		
Boring stopped by Inspector.		55 42		
WATER LEVEL 39.5				

BORING No. S-44

IDENTIFICATION	ELEV. DEPTH	N BLOWS T S.F.	QU	W %
Ground Surface	417.8 0			
Black cinders, brown clayey silt, and miscellaneous fill.	408.8	2 5 9 12		
Loose yellow & brown fine Sand, trace silt.	402.3	10 5 6 4		
Soft brown silty clay	395.8	4 5 .68		23
Medium yellow & brown fine Sand, trace silt.	386.3	25 20 27 30 20		
Medium moist brown fine to medium Sand, trace silt.	381.8	28 35 22		
Medium moist brown fine silty Sand.	378.0	45 40 17		
Medium wet gray fine to (continued)		12 45 18		

IDENTIFICATION	ELEV. DEPTH	N BLOWS T S.F.	QU	W %
(continued) coarse Sand, and small gravel, trace silt.		47 16 50 29 32 55 25		
	361.8			
Dense gray fine Sand, trace silt.	352.8	60 31 33 65 52		
V. dense wet gray fine to medium Sand, trace silt.	349.3	63		
Medium to dense wet gray fine to coarse Sand, trace gravel & silt.	343.8	70 23 32		
V. Dense gr. f. to med. Sand, tr. silt, org. matter noted.	342.875	78		
Boring stopped by Inspector.				
WATER LEVEL 41.0				

BORING No. S-45

IDENTIFICATION	ELEV. DEPTH	N BLOWS T S.F.	QU	W %
Ground Surface	417.4 0			
Very loose black cinders, silty brick fragments, & Fill.	404.4	2 5 7 2 10 2 4		
Loose moist brown silty CLAY	401.9	15 5	.98	30
Medium damp yellow and brown very fine Sand, some silt.	373.4	10 11 9 14 17 19 23 31 35		
Brown fine to medium Sand,	374.9	40 13 24		
Medium dense wet gray fine to coarse Sand, trace small gravel.	352.4	45 18 35 50 26 39 55 34		

IDENTIFICATION	ELEV. DEPTH	N BLOWS T S.F.	QU	W %
(continued) Sand, trace silt.	336.4	56 34 60 43		
Medium wet gray fine to coarse Sand, some small gravel.	352.9	21 65 30		
Medium wet gray		58 72 46		
fine Sand, trace silt.	337.9	14 75 43 80 8 30		
Gray clayey Silt, some sand	333.4	27		
Medium wet gray fine Sand, trace silt.	328.4	29 85 26 38		
Dense to very dense wet gray fine to coarse Sand, some small gravel.	317.4	90 64 55 95 45 55 100 114		
Boring stopped by Inspector.				
WATER LEVEL 42.0				

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-I

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

SHEET 485 OF 526

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.I - 70	82-3HVB-1	ST. CLAIR	207	164
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-46

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU	W %
Ground Surface	417.3	0		
Loose to very loose black cinders, red brick, coal, and sand Fill	406.3	10	5 7 2 2	
Very loose wet brown Silt, some very fine sand.	406.3		2	
Loose to medium damp yellow and brown very fine Sand, trace silt.	391.3	25	11 6 10 16	
Loose moist yellow & brown Silt, some very fine sand.	389.3		8	30
Medium damp yellow and brown fine Sand, trace silt.	374.3	35	20 16 9	
Loose damp grey fine to medium Sand, trace silt.	370.3	40	9	
Medium wet grey fine to coarse Sand, trace small gravel and silt.	374.3		11	
Medium wet grey fine to medium Sand, trace small gravel and (continued)		45	23	

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS T. S.F.	QU	W %
silt	369.3	47	29	
Dense wet grey fine Sand, trace silt	366.3	50	37	
Medium wet grey fine to coarse Sand, some small gravel, trace silt	354.3	55	33 19 25	
Medium wet grey fine to coarse Sand, trace small gravel	351.3	65	18	
Dense wet grey fine to coarse Sand trace small gravel	347.3	75	24 87 34	
Boring stopped by inspector.				
WATER LEVEL 41.0				

BORING No. S-47

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU	W %
Ground Surface	417.2	0		
Charcoal, Black Cinders, & Miscellaneous Fill	411.7	5	5	
Loose damp yellow & brown fine Sand, trace silt.	408.2		7	
Medium damp yellow & brown fine Sand, some silt.	400.2	10	12	29
Medium to dense yellow and brown fine Sand, trace silt.	376.2	40	16 17 25 41	21
Medium dense wet (continued)		45	23	

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS T. S.F.	QU	W %
		47	47	
grey fine to coarse Sand, trace small gravel and silt.	354.7	50 55 60 65	49 44 30 28 19	
Boring stopped by inspector.				
WATER LEVEL 41.0				

BORING No. S-48

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU	W %
Ground Surface	417.2	0		
Black, Cinder, Brick, Coal, and Miscellaneous Fill, damp red and brown silty Clay	409.2 / 408.7	5 12	5 3 17	26
Very loose wet yellow & brown Silt, some very fine sand.	401.2		3	
Loose to medium damp yellow & brown very fine Sand, trace silt.	391.2	15 20 25	6 8 9 14 16	
Loose wet Silt, trace clay.	389.2		9	
Medium damp yellow and brown fine Sand, trace silt.	383.2	30	19 14	
Very dense damp gray fine Sand, trace silt.	379.2	35	95 34	
Dense, damp grey fine to coarse Sand, trace small gravel and silt.	376.2	40	49	
Medium wet gray fine Sand, trace silt.	374.2		22	
Dense wet grey fine to coarse Sand, trace small gravel and silt.	371.2	45	40	

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU	W %
		47	31	
Dense wet gray coarse Sand small gravel	368.2	50	31	
Dense wet gray fine Sand, trace silt.	365.2		39	
Dense wet gray med. to coarse Sand, tr. sml. gvl. & org. mat.	363.7	55	32	
wet gray fine to coarse Sand, trace small gravel and silt.	352.2	60 65	23 31 22 18	
Boring stopped by Inspector.				
WATER LEVEL 41.0				

N - STANDARD PENETRATION TEST NUMBER - BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140# WT. FALLING 30"

QU - UNCONFINED COMPRESSIVE STRENGTH
W - WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE
B - BULGE
S - SHEAR
E - ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

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

SHEET 486 OF 526

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I – 70	82-3HVB-1	ST. CLAIR	207	165
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-49

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
Ground Surface	407.5	0		
Topsoil	405.5			
Loose dry yellow & brown very fine Sand, trace silt.	396.0	5		
Dk.gray & brn.clayey silt,tr.f.sand.	395.0	7		35
Medium damp yellow and brown fine Sand, trace silt.	390.5	15		11
Loose damp yel.&brn. v.f.silty sand.	389.5	7		
Medium damp yellow and brown very fine (continued)		20		15
Sand, trace silt.	381.5	25		27
Loose moist dark grey very fine sand.	379.5	6		
		30		32
Medium				7
dense		35		17
wet				16
grey		40		25
fine				39
to		45		29
(continued)				

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
(continued)	47			63
coarse		50		79
Sand.	356.5			
Wet gray fine to coarse Sand, trace small gravel.				21
	350.5	55		36
Dense, wet gray fine to medium Sand, trace gravel and silt.				57
	345.5	65		40
Boring stopped by Inspector.				
WATER LEVEL 30.0				

BORING No. S-50

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
Ground Surface	405.6	0		
Topsoil	404.1			
Brown clayey Silt	403.6	13		24
Medium damp yellow and brown very fine Sand, trace silt.		5		11
	392.9	12		13
Grey silty sand.	392.4			11
Medium damp yellow & brown fine sand.	387.6	15		20
Medium damp yellow and brown very fine silty Sand.	382.1	20		20
Dense damp brown fine Sand.	378.1	25		35
Medium wet gray very fine Sand, trace silt.	376.6	10		16
Medium				
to				16
dense				
wet		35		
grey				
fine to				26
coarse		40		32
Sand.	364.6			
Dense wet gray fine Sand, trace silt.		45		29
	359.1			

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
Gray Dense coarse Sand	47	44		
	357.6			
Very dense gray very fine Sand.	50	104		
	352.6			38
Dense wet gray Medium Sand.	55			32
	349.6			
Medium Very wet grey very fine Sand				16
	347.6			
Medium wet gray coarse Sand.	345.6	60		26
Boring Stopped by Inspector.				
WATER LEVEL 27.3				

BORING No. S-51

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
Ground Surface	407.0	0		
Loose brown silty clay, little fine sand	404.0	9		27
Loose to medium brown fine Sand,		5	7	6
			12	
trace silt.	391.9	15		13
Medium moist grey silty v.f. Sand.	390.5			
Medium damp yellow & brown fine Sand,		20		15
trace silt.	381.0	25		23
Medium damp gray fine		30		25
Sand.	376.0			22
Medium wet gray fine to coarse Sand.		35		11
Medium -to dense wet gray file to coarse Sand, (continued)		45		18
		60		40
				36
				31

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
(continued)	47			23
trace silt.	350.0	50		82
dense wet gray fine Sand.	354.0			45
Dense wet gray fine to coarse Sand, trace Black organic matter.	351.0	55		33
Medium wet gray fine Sand.	346.0	60		26 24
dense wet gray fine to medium Sand, trace small gravel.	339.5	65		83 33
Boring stopped by Inspector.				48
WATER LEVEL 31.0				

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-1

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

SHEET 487 OF 586

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.– 70	82-3HVB-I	ST. CLAIR	207	166
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-52

IDENTIFICATION	ELEV. DEPTH	N BLOWS T S.F.	QU T S.F.	W %
Ground Surface	405.5 0			
Stiff brown clayey Silt.	403.0	10		23
Medium brown very fine Sand.	5	11		
some silt.	392.5	14		
Medium damp brown fine Sand.	390.0	15		27
Loose moist gray silt and fine Sand.	387.5	7		
Medium damp gray fine silty Sand	20 384.2	15		
Medium damp gray fine Sand, trace silt.	25 378.0	24 28		34
gray fine Sand	376.0			
Medium wet gray fine to co. Sand.	375.0	10		12
Medium wet gray fine Sand, trace silt.	35 368.5	15 28		29
Medium dense wet gray fine to coarse Sand, (continued)	40 45	37 25		33

IDENTIFICATION [continued]	ELEV. DEPTH	N BLOWS T S.F.	QU T S.F.	W %
trace small gravel and silt.	47 50 354.0	25 25		
Dense wet gray fine to medium Sand.	55 347.5	64 38		43
Dense wet gray fine to coarse Sand, trace silt.	60 344.5	37		
Dense wet gray coarse Sand and gravel, tr. silt.	343.0	38		
Boring stopped by Inspector.				
WATER LEVEL 29.5				

BORING No. S-53

IDENTIFICATION	ELEV. DEPTH	N BLOWS T S.F.	QU T S.F.	W %
Ground Surface	407.0 0			
Medium moist brown silty Clay	403.5	16		21
Medium dry yellow & brown silt.	5 399.0	11 12		15
Loose damp yellow and brown fine Sand, little silt and clay.	10 395.5	21		
Loose damp yellow and brown fine Sand, tr. silt.	393.0	10		
Loose moist yellow and brown fine silty Sand.	15 391.0	7		
Medium yellow & brown fine Sand, trace silt.	20 383.0	14 19 17		
Gray fine to medium Sand, trace silt.	25 376.0	8 16 24		
Medium wet gray fine to coarse Sand, trace small gravel; organic matter noted.	363.0	14 19		
Medium wet gray medium to coarse Sand, trace small gravel.	45 360.5	45		

IDENTIFICATION	ELEV. DEPTH	N BLOWS T S.F.	QU T S.F.	W %
Wet gray fine to coarse Sand, some medium gravel.	47 50 356.0	37 23		
Medium wet gray coarse Sand, and some gravel.	353.5	15		
Medium to dense wet gray medium to coarse Sand, trace small gravel and silt.	55 348.0	25 32		
V. dense wet gray medium to coarse Sand, trace silt, and gravel.	60 343.0	82 75		
Wet gray fine to course Sand, trace silt & gravel.	65 70 334.5	36 90 10		54
Boring stopped by Inspector.				
WATER LEVEL 31.0				75

BORING No. S-54

IDENTIFICATION	ELEV. DEPTH	N BLOWS T S.F.	QU T S.F.	W %
Ground Surface	406.2 0			
Loose brown silty Clay and gravel	402.7	10	1.75	17
Loose yellow and brown very fine Sand and silt	5 10 394.7	6 7 14		
Very loose gray silty clay, some very fine sand, organic matter noted.	392.7	4		
Loose to medium grey silty clay, trace fine Sand	15 388.7	4 8	.78	35
Medium yellow brown fine Sand, trace silt.	20 385.2	15		
Medium gray very fine silty Sand	382.2	11		
Medium gray very fine Sand	25 377.7	28 14		
Medium gray coarse Sand, trace silt.	35 365.2	15 15 18 20 17		
Medium gray fine to medium Sand, trace silt; organic matter noted.	362.2	24		
Very dense gray fine (continued)	45	49		

(continued)	ELEV. DEPTH	N BLOWS T S.F.	QU T S.F.	W %
Sand, trace silt.	47 357.7	32		
Medium gray coarse Sand, trace silt.	50 352.7	17 26		
Very dense gray fine Sand, trace silt.	55 348.7	94 119		
Boring stopped by Inspector.				
WATER LEVEL 29.0				

H - STANDARD PENETRATION TEST NUMBER - BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140# WT. FALLING 30"

QU - UNCONFINED COMPRESSIVE STRENGTH
W - WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE
B - BULGE
S - SHEAR
E - ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

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

SHEET 489 OF 526

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F A I – 70	82-3HVB-1	ST. CLAIR	207	167
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

BORING No. S-55

IDENTIFICATION	ELEV. DEPTH	N BLOWS/T.S.F.	QU T.S.F.	W %
Ground Surface	403.9 0			
Topsoil	403.9			
Loose damp yel&brn. v.f.Sand,clay,some silt. Fill	402.9	5		
Loose damp yellow & brown very fine Sand, some silt.	393.9	5 8 12		30 17
Medium to dense wet gray fine to coarse Sand, trace small gravel and silt.	376.4	40 13		
Medium to dense wet gray fine Sand, trace silt	352.9	25 30 35 45		
Medium to dense wet gray fine to coarse Sand, trace small gravel and silt.	338.4	40 15 15 40 21		
Boring stopped by Inspector.	338.4	70		49
WATER LEVEL 31.0				

IDENTIFICATION	ELEV. DEPTH	N BLOWS/T.S.F.	QU T.S.F.	W %
Dense wet gray fine Sand, trace small gravel and silt.	353.9	47 45		
	350.9	55 44		
Dense wet gray fine Sand, some silt.	345.9	60 45		
Dense gray fine to coarse Sand, trace small gravel and silt.	338.4	65 40		49
Boring stopped by Inspector.		70		
WATER LEVEL 31.0				

BORING No. S-56

IDENTIFICATION	ELEV. DEPTH	N BLOWS/T.S.F.	QU T.S.F.	W %
Ground Surface	407.8 0			
Topsoil	406.3			
Loose dry brown very fine sandy silt.	404.3	6		16
Stiff brown clayey Silt, some very fine Sand.	402.3	5 9	1.0&RB	23
Loose damp yellow and brown very fine Sand, some silt.	396.3	8		
Loose damp yellow and brown very fine silty Sand	394.3	6		
Loose damp yellow and brown fine Sand, trace silt.	390.8	12 9		
Medium damp brown fine silty Sand	387.8	11		
Medium damp gray very fine Sand, some silt.	384.8	20 11		
Medium damp gray very fine Sand, little silt, very loose dark brown Sand.	382.8	21		
Medium damp gray fine Sand, trace silt.	380.8	25 5		
Medium wet gray fine to coarse Sand, trace small gravel, and silt.	375.8	30 27		
	363.3	35 27 17 11 15		
Medium wet gray fine Sand, (continues)		40 17 45 25		

IDENTIFICATION	ELEV. DEPTH	N BLOWS/T.S.F.	QU T.S.F.	W %
(cont'd) tr.silt.	360.8	47		18
Medium wet gray fine to coarse Sand,	351.8	50 55		18 20 25
Gray medium to coarse Sand, some small gravel.	340.8	60		16 22
Dense wet gray fine to coarse Sand, trace small gravel and silt.	332.8	65 70		37 42 51 39 47 45
Boring stopped by Inspector.				
WATER LEVEL 32				

BORING No. S-57

IDENTIFICATION	ELEV. DEPTH	N BLOWS/T.S.F.	QU T.S.F.	W %
Ground Surface	407.0 0			
Brown clayey Silt, some very fine Sand.	404.0	9		12
Loose dry yellow & brown very fine Sand, trace silt.	401.0	5 6		
Loose brown very fine sandy silt.	393.5	9 10 6		22 8
Medium damp very fine Sand, trace silt.	386.9	15 20		11 13 5
Medium damp gray very fine Silty Sand.	381.0	25		13 7
Medium to dense gray fine Sand, trace small gravel.	370.5	30 35		31 34 30 19
Loose v.wet gray v.f. Sand,little silt,tr. wood & lignite	369.0			7
Medium wet gray fine to medium Sand, trace small gravel.	360.0	40		18
Dense gray fine Sand, trace silt	355.5	45 47 50		23 38 16 35
Medium dense (continues)				20

IDENTIFICATION	ELEV. DEPTH	N BLOWS/T.S.F.	QU T.S.F.	W %
(cont.) wet gray fine to medium Sand,	347.0	55 60		31 21
Loose gray very fine Sand.	342.5	65		32 6 18
Medium to very dense gray fine to coarse Sand.	331.0	70 75		60 25 23 68
Medium wet gray fine gravel, some coarse sand, trace silt.	320.0	80		14 22
Medium wet brownish gray fine to coarse Sand, some small gravel, trace silt.	312.0	85 90 95		43 20 32 25 38 43
Boring stopped by Inspector.				
WATER LEVEL 30.5				

N - STANDARD PENETRATION TEST NUMBER BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140# 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-1

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

SHEET 483 OF 526

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. – 70	82-3HVB-I	ST. CLAIR	207	168
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-58

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
Ground Surface	406.9 0			
Loose damp yellow and brown silt	8			20
Brown silty Clay	402.4			
Loose dry yellow and brown fine Sand, trace silt.	400.9 5	8		17
Loose yellow and brown silt, trace fine sand.	10	9		30
Loose wet brown silty clay	395.9 5			34
Medium loose yellow and brown very fine Sand, some silt.	393.9 15	12		
Loose gray very fine Sand, trace silt.	378.4 20	7		
Medium gray fine Sand, trace silt	25	9		
Small gravel.	373.4			
Med. wet gray fine to course Sand, trace small gravel 2" charred coal.	35	17		
Medium wet gray fine Sand, trace silt and small gravel.	370.9 168.4	15		
Medium wet gray fine Sand, trace silt.	40	30		
	362.9			26
Medium wet gray medium (continued)	45	23		

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
(continued)	47			
Sand, trace silt.	358.4	26		
Dense wet gray fine to coarse Sand, trace small gravel & silt.	355.9 50	43		
Dense wet gray fine Sand, trace silt	55	43		
	350.9			
Med. wet gray fine to coarse Sand, tr. sm. gravel & silt; organic matter noted.	348.4			28
Boring stopped by Inspector.	60			
WATER LEVEL 31.0				

BORING No. S-59

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
Ground Surface	405.9 0			
Loose damp yellow & brown silty sand, trace clay.	402.9 7			
Loose damp yellow & brown silty Sand.	399.9 5	5		
Loose to medium wet brown and gray silty clay.	393.4 10	7		37
Medium fine brown Sand, some silt.	386.9 25	12		29
Medium gray fine Sand, some silt.	384.9 20	16		
Gray very fine Sand, trace silt.	381.9	15		
Medium dense to very dense gray fine to medium Sand, trace silt & small gravel.	369.9 30	12		
		30	27	
		35	36	
		45	66	
		50	57	
Medium wet gray fine Sand, trace	40	28		
		45	25	
		50	25	
(continued)		45	27	

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
(continued)	47			
trace silt.	357.9	24		
Dense wet gray coarse Sand, some small gravel, trace silt.	50	34		
	352.4	30		
V. dense wet gray fine to medium Sand, trace silt.	350.9 55	54		
Boring stopped by Inspector.				
WATER LEVEL 29.0				

BORING No. S-60

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
Ground Surface	409.5 0			
Topsoil.	408.0			
Loose damp yellow and brown sandy silt.	5	7		17
Stiff brown silty clay, little very fine sand.	403.0		1.8 ±	24
Loose yellow and brown very fine Sand, trace silt.	400.5 10	8		
	5	5		47
Loose to dense gray fine Sand, trace silt.	387.2	11		
	45	7		
		50	49	
	377.9			32
Medium dense wet gray fine Sand, trace silt	35	20		
	40	28		
	45	35		
		50	34	
fine to (continued)	45	19		

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
(continued)	47	31		
course	50	34		
Sand,		45		
trace	55	34		
silt.	354.0	44		
Boring stopped by Inspector.				
WATER LEVEL 33.5	60			

N – STANDARD PENETRATION TEST NUMBER – BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140 LBS. WT. FALLING 30"

QU – UNCONFINED COMPRESSIVE STRENGTH
W – WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE
B – BULGE
S – SHEAR
E – ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

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

SHEET 1
490 M 526

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.I - 70	82-3HVB-1	ST. CLAIR	207	169
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-61

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU	W %
Ground Surface	408.4 0			
Topsoil	407.2			
Medium damp yellow and brown Sandy Silt.	402.4 5	9		17
Soft brown silty clay	399.4 9	1.48		25
Loose grayish-brown very fine Sand, trace silt.	396.8 11.6	9		16
Soft gray clayey silt.	392.4 16	2		26
Medium damp gray very fine Sand, trace silt.	388.4 20	11		43
Medium moist dark gray Silt and very fine Sand.	381.4 27	23		21
Medium damp gray fine sandy silt, and organic matter.	379.4 29	21		
Dense damp gray fine Sand, trace silt.	377.9 30.5	43		
Dense moist gray fine Sand	375.4 33	31		
Medium wet gray fine to medium Sand, trace silt.	372.9 35	22		
Medium dense wet gray fine Sand,	367.4 40	29 48		
(continued)				

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU	W %
(continued)	47	26		
trace silt.	50 357.4	27		
Dense to very dense wet gray fine to medium Sand, trace silt and small gravel.	353.4 55	43 44		
Boring stopped by Inspector.	348.4 60	108		
WATER LEVEL 33.0				

BORING No. S-62

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU	W %
Ground Surface	406.8 0			
Top soil	405.8			
Very loose to stiff brown, very fine Sand, some silt.	401.8 5	4 8		15
Loose yellow and brown very fine Sand, some silt.	396.8 10	8 7		
Loose wet brown Sandy silt.	394.8 12	7		34
Loose wet gray fine Sand, some silt.	392.3 14.5	7		
Medium damp brown fine Sand,	389.8 17	16		
Medium damp gray very fine Sand, little silt.	384.3 22.5	17		
Medium dense gray fine Sand,	377.8 29	35 38 25 39 31 24 34 47		
(continued)				

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU	W %
(continued)	47	26		
silt.	50 353.8	33		
Medium dense wet gray fine to coarse Sand, trace small gravel, some silt.	55 349.3	29 47		
Boring stopped by Inspector.	60			
WATER LEVEL 31.0				

BORING No. S-63

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU	W %
Ground Surface	406.5 0			
Black clayey Silt, and Cinder Topsoil	404.5			
V. loose damp silty very fine Sand,	403.5	4		
Loose brown very fine Sand, some silt.	397.0 9.5	5 7		17
Very loose moist brown Silt, some very fine Sand.	393.0 13.5	7 2		30
Very loose wet gray silty very fine Sand.	387.5 19	15 3		
Loose damp brown fine Sand, trace silt.	385.5 21	20 10		
Loose moist gray very fine Sand, some silt.	380.5 26	7 5		
Medium damp gray fine Sand.	377.5 29	19		
Medium wet gray fine to medium Sand, trace silt.	374.5 32	30 23		22
Medium dense to dense to fine gray very fine Sand, (continued)		35 24 23 40 40 41 50		

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU	W %
(continued)	47	41		
trace silt.	50			
Gray f - c Sand	56.4 56.0	25		
Medium to dense wet gray fine Sand, trace silt.	55	19 16 34 43		
Boring stopped by Inspector.	60			
WATER LEVEL 29.0				

N - STANDARD PENETRATION TEST NUMBER - BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140# WT. FALLING 30"

QU - UNCONFINED COMPRESSIVE STRENGTH

W - WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE B - BULGE S - SHEAR E - ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

H. W. LOCHNER INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 491 OF 526

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. – 70	82-3HVB-I	ST. CLAIR	207	170
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-64

IDENTIFICATION	ELEV. DEPTH	N BLOWS T.S.F.	QU T.S.F.	W %
Ground Surface	416.0 0			
Loose black Cinders Fill	409.0 7	2		
Loose dump brown Silty fine Sand.	406.7	5 8		
Loose brown silty very fine Sand.	396.0 20	9		
Gray Clay, trace sand.	393.5	10 10		
Brown fine silty sand.	386.0 10	15 9		
Medium wet gray fine Sand, (continued)	382.0	9		31
(continued)		39		
Dense wet medium Sand, and silt	363.5	50 31		
Dense wet gray fine to coarse Sand, trace small gravel and silt.	361.0	45 30		
Boring stopped by inspector.	348.5	60		
WATER LEVEL 42.0		70		

BORING No. S-65

IDENTIFICATION	ELEV. DEPTH	N BLOWS T.S.F.	QU T.S.F.	W %
Ground Surface	406.4 0			
Brick cinders fill	404.9			
Loose damp brown Silt trace clay	401.4	7		21
Loose yellow and brown silty very fine Sand.	397.9	5 9		
Br. Clayey Silt Yellow & Brown v.f. silty Sand	395.4	6 10		37
Very loose wet gray Silt to very fine Sand	390.4	3		36
Very soft gray silty clay	387.4	2	.315	41
Loose medium gray fine Sand, trace silt.	383.9	20 3	.328	41
Loose wet gray fine Sand, trace silty clay	373.4	25 5		
Medium dense wet gray silty fine Sand, trace clay.	362.9	35 36		
Medium wet gray fine to medium Sand, trace silt.	360.4	45 30		
Dense wet gray fine to coarse Sand, trace small gravel and silt.	344.9	47 56		
Dense wet gray fine to medium Sand, trace silt and clay.	341.465	50 51		
Boring stopped by inspector. (abut)		39		
		50 51		
		55 50		
		21		
		60 41		
		16		
WATER LEVEL (31.0)		32		

BORING No. S-66

IDENTIFICATION	ELEV. DEPTH	N BLOWS T.S.F.	QU T.S.F.	W %
Ground Surface	408.2 0			
Topsoil	406.7			
Loose damp brown very fine sandy Silt	404.2	5		20
Loose yellow and brown very fine Sand	402.2	5 6		
Loose damp yellow & brown very fine Sand, little clayey silt.	391.7	9 10		21
Very soft clayey Silt, trace fine sand.	388.2 20	10 13		23
Medium gray very fine Sand. some silt.	379.7	15 7		36
Medium wet gray fine Sand, some siltseams.	369.7	4		40
Medium wet gray fine Sand, (continued)		10 30		
(continued)		47 16		
Medium dense gray fine to coarse Sand, trace small gravel and silt.	352.9	55 48		
Very dense wet gray fine Sand, trace silt.	350.7	60 64		
Boring stopped by Inspect-r.				
WATER LEVEL				

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-I

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

SHEET 492 OF 526

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.I - 70	82-3HVB-I	ST. CLAIR	207	171
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-67

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
Ground Surface	405.4 0			
Topsoil	404.1 1			
Loose brown fine silty sand.	402.6 3	6		
Stiff brown silty clay, trace fine sand	399.4 6	5	.448	29
Loose damp brown silt, trace clay, some fine sand.	397.4 8	6		30
Loose brown fine sand, trace silt and clay.	392.4 13	7		
Very loose wet gray fine sand, trace silt.	387.4 18	4		
Very soft gray clayey silt.	382.4 23	4		44
Loose wet gray silty fine sand.	379.4 26	4		
Loose wet gray silt, trace clay and fine sand	377.4 28	7		35
		4		37
Medium wet gray fine sand, little silt, trace black organic matter	372.4 33	30		22
Soft gray clayey silt	367.4 38	35		23
Medium dark gray very fine sand, little silt, trace organic matter.	364.9 40	20		44
Soft gray clayey silt, some sand, trace organic matter.	359.5 45	7		44
		17		44
Medium (continued)				

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
(continued)		47		49
dense wet gray fine to coarse Sand, trace silt.	351.4	50/3"		27
Decayed Wood.	350.6 54			24
Dense wet gray fine Sand, trace silt.	342.4 63			46
Dense gray fine to coarse Sand, trace silt.	337.9 68	65		45
Medium wet gray fine to coarse Sand, trace silt.	330.4 75	70		27
Boring stopped by Inspector.				23
WATER LEVEL 29				

BORING No. S-68

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
Ground Surface	404.5 0			
Topsoil	403.0 1			
Very loose moist brown silty very fine Sand.	401.5 3	3		29
Loose wet gray and brown clayey silt, trace very fine sand.	398.0 7	5	1.13B	33
Medium moist brown very fine Sand, trace silt.	393.0 12	8		
Loose wet gray very fine sandy silt.	386.0 19	11		
		3	.31B	36
		3	.23B	35
Loose wet gray fine Sand, trace silt.	380.0 25	20		
		2		28
Loose to dense wet gray fine Sand, trace silt.	368.0 37	14		
		30		11
		33		
		35		44
Medium wet grey fine Sand, trace silt and organic matter.	364.4 41	17		
		40		18
Medium loose wet grey fine Sand, trace silt; roots noted.	358.5 47	20		
		45		3
Medium (continued)				

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
(continued)	47			29
wet gray fine to coarse Sand, small gravel, trace silt.	352.0 50			16
Dense wet gray fine to medium Sand, trace silt and small gravel.	341.0 60			35
				41
				53
				43
				40
Dense wet brown and gray coarse Sand, small gravel and silt.	327.0 75	65		49
				22
				23
				41
				35
Boring stopped by Inspector.				23
WATER LEVEL 29.0				50

BORING No. S-69

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
Ground Surface	414.7 0			
Loose to medium damp dark brown cinders, wood and brick Fill	401.2 13	5		
		3		
		3		
		10		10
		15		
Medium stiff damp gray silty clay	399.2 15	8	1.5E	26
Medium damp yellow & brown fine sand, trace silt.	396.2 18	11		
Very loose wet yellow and brown fine sand.	394.2 20	4		
Loose wet gray very fine sand, little silt.	391.2 23	5		
Very soft gray silty clay	382.7 32	25	.29B	32
		2	.25B	42
trace fine sand.	381.7 33	10	.35E	41
Loose wet gray Silt, trace clay.	380.2 35	7	.31B	31
Medium wet gray fine Sand, trace silt.	377.7 37	35	7	37
				37
		40	20	
				6
Medium (continued)	369.2 45		11	

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
(continued)	47			
wet gray coarse Sand, trace small gravel and silt.	363.7 50			26
Very dense wet gray fine Sand, trace silt.	361.2 53			
Dense wet gray coarse Sand, trace small gravels organic matter.	358.7 55			44
Medium wet gray coarse Sand, some gravel, wood & organic matter.	356.2 58			24
Very dense wet gray fine to coarse Sand, trace organic matter.	351.2 63	60		47
Very dense wet gray fine to coarse Sand, trace silt & gravel	348.7 65	65		75
Very dense, very wet grey fine Sand, trace silt.	346.2 68			66
Dense wet gray Sand, trace silt and wood.	342.7 72	70		19
Medium wet grey medium Sand, trace silt and small gravel.	339.7 75			53
Boring stopped by Inspector.				44
WATER LEVEL 40.5				

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-I

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

SHEET 493 OF 526

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.I. - 70	82-3HVB-1	ST. CLAIR	207	172
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-70

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	407.6 0			
Top soil	406.9 .7			
Loose				
damp		7		
yellow &				
brown				
very fine	5	6		
Sand,				
trace				
silt.	399.6	5		
Medium				
dense				
brown	10	5	.88	32
			.84	20
clayey		5	.395	35
Silt.	393.1			
Loose wet brown fine Sand & silt	392.1	15	8	35
Very loose wet grey silt some very fine sand.	389.6	2		41
Very soft grey clayey Silt	20	2	.226	44
	385.6	5	.486	43
Loose damp grey very fine Sand, some silt, trace clay.	25	5		32
	382.6			
Medium damp gray fine Sand, trace silt.	378.6	26		
	30	71		
Medium dense wet grey fine to medium Sand, trace small gravel.	360.6	35	29 22 35 28	
Medium wet gray coarse Sand, trace small gravel.	362.6	45	15 21	
Dense wet (continued)				

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(continued)	47			
gray fine to coarse Sand	359.1	34		
Dense wet gray medium Sand, trace small gravel and silt.	350.1	50 84 36 55 30		
Boring stopped by Inspector.		63		
WATER LEVEL 33				

BORING No. S-71

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	410.9 0			
Cinders,		12		
		5 15		
Brick,		5		
Trace		10 18		
		12		
Silt		11 7		
Fill	399.4			
Very loose brown clayey silt	398.4			
Soft brown gray clay	394.4	2 4	.59 .78	30 33
Very loose brown clayey Silt, trace Sand	391.9	4 5	.78	32
Gray Silty trace Sand, silt	389.4	11 10 5		24
Brown very fine Sand, trace silt	384.4	14 5		21
Medium fine Sand, trace silt.	376.9	15 26 49		28
Medium to dense (continued)		23 45		38

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(continued)	47			
fine to coarse Sand, trace silt and small gravel.	394.4	16 16 17 22 53 57 45		
Boring stopped by Inspector				
WATER LEVEL 39.8				

BORING No. S-72

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	417.5 0			
Cinder fill.		8		
		5 7		
		16		
		3 9		
Red and brown silt and very fine Sand	405.5 412.5	7	1.0	33
Cinder Fill		12 4		
Gray Clay	400.5 399.5	3		
Brown Silty fine Sand	394.0	20 13 5		
Loose gray silty Clay	386.0	24 7 14 5	1.0E .7E	33 27
Medium gray very fine to coarse Sand, trace small gravel.	373.5	13 15 11 10 11 12 45 31		

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(continued)	47			
fine to coarse silty Sand, trace small gravel.	361.5	50 26 29 21		
Dense gray fine to medium Sand, trace silt.	361.0	45 31		
Dense gray fine to coarse silty Sand, trace small gravel.	354.0	25 50 37		
Log wood	352.5	65 19		
Dense gray fine to coarse Sand, trace small gravel.	349.0	34		
Very dense gray fine to medium Sand, trace silt.	344.5	71 64 65		
Very dense gray fine to coarse Sand	340.0	73 69 28		
Boring stopped by Inspector.				
WATER LEVEL 40.0				

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-1

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

SHEET 494 OF 526

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.I – 70	82-3HVB-I	ST. CLAIR	207	173
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-73

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU T. S.F.	W %
Ground surface	415.6 0			
Medium loose black Cinders, brick, gravel, sand, and silt Fill	400.6 15	29 5 11 6 9 10 7 11		28
Medium to list brown fine Sand	399.1			
Gray Clayey Silt	398.6			
Loose moist brown fine Silty Sand.	394.1 20	7		29
Medium damp gray fine Sand, trace silt.	383.1 33	14 25 17 15 10 17		
Medium damp brown fine Sand, trace silt.	376.6 35	22 23		
Dense moist gray fine to medium Sand, little small gravel, trace organic matter	372.3 40	31 20		
Medium dense wet gray medium to coarse Sand, trace small (continued)	45	33		

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU T. S.F.	W %
(continued) gravel.	368.1 47	25		
Dense wet gray fine to coarse Sand, trace small gravel and silt.	364.6 52	32 38		
Gray coarse Sand and small gravel	352.6 64	13 47		
Dense wet gray coarse Sand, trace silt and small gravel with organic matter noted.	342.6 74	26 33		
Very dense wet gray fine to medium Sand, trace silt.	338.1 79	85 44		
Boring stopped by Inspector.				
WATER LEVEL 40.5				

BORING No. S-74

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU T. S.F.	W %
Ground surface	417.6 0			
Cinder, glass, and miscellaneous Fill	411.1 6	14		
Loose yellow and brown fine Sand, trace silt	403.6 14	10 5 7		
Soft brown clay	403.1 15	9	60	
Medium yellow and brown fine to coarse Sand, trace small to medium gravel.	379.6 38	17 20 16 22 35 24		
Dense gray and brown fine to coarse Sand, trace small to medium gravel.	375.6 42	40 28		
Dense gray medium Sand, trace silt.	372.6 45	40		
Medium (continued)				

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU T. S.F.	W %
(continued)	47	24		
Gray coarse Sand, some small gravel, trace silt.	361.6 57	43 47 25		
Medium gray fine Sand, trace silt	360.3 59	26		
Gray coarse Sand, trace small gravel, & silt	358.6 61	26		
Dense gr fine to coarse Sand, & gravel	357.6 62	34		
Boring stopped by Inspector.				
WATER LEVEL 41.0				

BORING No. S-75

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU T. S.F.	W %
Ground Surface	415.1 0			
Cinder, Rock and Coal Fill	410.1 5	13 14		
Medium damp brown silty clay	404.1 11	14 10 4		
Loose to medium damp yellow and brown very fine Sand, trace silt, organic matter noted.	390.1 25	9 15 9 8 20 14 18 25 15 20 33 25		
Very dense damp gray fine Sand	382.1 33	63		
Very dense damp yellow and brown medium Sand, trace small gravel	376.6 38	60		
Dense damp gray fine to medium Sand, trace small gravel.	374.1 40	49		
Medium dense wet gray fine to coarse Sand, trace small gravel (continued)	45	43 26		

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU T. S.F.	W %
(continued)	47	22		
and silt.	367.6 50	22		
Boring stopped by Inspector.	365.6 52	35		
WATER LEVEL 46.0				

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-I

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

SHEET 495 OF 526

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.I - 70	82-3HVB-1	ST. CLAIR	207	174
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-76

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU	W %
Ground Surface	416.8 0			
Cinder, Brick, Coal and Brick Fill	410.8	13		
Brown silty Sand, trace clay	408.8	3		27
Loose dampyellow and brown very fine Sand, trace silt.	402.8	10		5
		15		6
Loose to dense brown very fine Sand, trace silt with organic matter noted.	374.8	20		9
		25		16
		35		28
		40		26
				25
				38
				52
Dense wet gray fine to coarse (continued)		45		34

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU	W %
(continued)	47			
Sand, trace small gravel and silt.	369.3			34
Boring stopped by Inspector.				
WATER LEVEL 42.0				

BORING No. S-77

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU	W %
Ground Surface	414.1 0			
Top soil	413.1			
Cinders and Miscellaneous fill	409.1	9		
		5		5
Loose to dense yellow and brown very fine Sand, trace silt	375.6	10		4
		15		10
		20		7
		25		9
		30		14
				16
				12
		35		21
				24
		40		28
				38
Medium dense wet gray fine to coarse (continued)		45		43

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU	W %
(continued)	47			
Sand, trace small gravel and silt.	360.1	50		32
				23
				29
Medium dense wet gray fine Sand, trace silt.	352.1	55		19
		60		35
				16
Very dense gray fine to coarse Sand, trace small gravel.	349.1	65		42
Boring stopped by Inspector.				
WATER LEVEL 38.0				

BORING No. S-78

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU	W %
Ground Surface	415.6 0			
Topsoil	414.1			
Black cinders and brick fragments fill	411.1	5		6
				2
Medium damp yellow and brown fine Sand, trace silt.	379.6	10		11
		15		13
		20		18
		25		22
		30		29
		35		32
				23
				24
				37
Dense wet gray fine to coarse Sand, some small (continued)		45		38
				38
				38
				37

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU	W %
(continued)	47			
gravel, trace silt.	365.6 50			39
				31
Boring stopped by Inspector.				
WATER LEVEL 38.0				

N - STANDARD PENETRATION TEST NUMBER - BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140# WT. FALLING 30"

QU - UNCONFINED COMPRESSIVE STRENGTH W - WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE B - BULGE S - SHEAR E - ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

H W. LOCHNER, INC
ENGINEERS
CHICAGO, ILLINOIS

SHEET 496 OF 526

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I – 70	82-3HVB-I	ST. CLAIR	207	175
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-79

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	413.9 0			
Cinders, and Miscellaneous Fill	5 408.9	4		
Soft brown silty clay	404.9	4	50±	28
Loose damp yellow and brown fine Sand, trace silt.	10 395.9	7 8 9		
Medium damp yellow and brown fine Sand, trace silt.	20 379.9	20 16 12 25		
Medium damp brown medium Sand, trace small gravel and silt.	35 375.1	24 18		
Medium dense wet gray fine to medium Sand, trace silt.	40 369.9	24 41		
Dense wet fine to (continued)	45	32		

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(continued) coarse gray Sand, trace small gravel and silt.	47 50 362.4	33 39		
Dense wet gray fine Sand, trace silt.	55 357.9	59 42		
Dense to very dense wet gray medium Sand trace small gravel and silt.	353.9 60	41 52		
Boring stopped by Inspector.				
WATER LEVEL 39.0				

BORING No. S-80

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	417.7 0			
Cinders and Miscellaneous Fill	413.7	3		
Loose brown fine Sand, some silt.	5 400.7	4 3 6 11 7		
Medium dense yellow and brown fine Sand, trace silt	25 381.7	19 17 35 52 29 20 23 22		
Dense brown fine to medium Sand, trace silt	40 376.7	32 41		
Medium wet gray fine to medium Sand, trace silt & small gravel.	45 371.7	25 23		
(continued)				

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(continued) Dense wet gray fine to coarse Sand, trace small gravel and silt.	47 50 365.2	31 35		
Boring stopped by Inspector.				
WATER LEVEL 42.0				

BORING No. S-81

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	416.9 0			
Cinder, brick, and concrete Fill.	5 403.9	4 2 6 5 4		
Medium to dense brown silty fine Sand, trace gravel and silt.	25 378.9	11 12 25 22 33 23 18 33 38		
Dense brown fine to medium Sand, trace small gravel.	40 375.9	48		
Dense brown fine to coarse Sand	371.9	39		
Medium dense (continued)	45	33		

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(continued) grey fine to coarse Sand, trace silt and small gravel.	47 50	23 28 29 41 28		
Dark fine Sand	358.4	48		
Boring stopped by Inspector.				
WATER LEVEL 38.0				

N – STANDARD PENETRATION TEST NUMBER – BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140# WT. FALLING 30"

QU – UNCONFINED COMPRESSIVE STRENGTH

W – WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE B – BULGE S – SHEAR E – ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

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

SHEET 497 OF 526

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I - 70	82-3HVB-I	ST. CLAIR	207	176
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-82

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
Ground Surface	413.3 0			
cinder, coal fill	410.3	11		
Loose damp yellow and brown very fine sand, trace silt.	407.3	5	9	
Loose moist brown very fine silty sand	405.8	3		
Soft damp brown clayey silt, and sand.	402.3	10	4	
Loose to medium dense damp yellow & brown very fine Sand, trace silt.	384.3	15	11	
Loose yellow & brown fine Sand	383.3	10	4	
Medium dense yellow and brown fine Sand, trace small gravel.	377.3	17	16	
Wet moist yel & brn. fine to med. Sand, trace silt, organic matter noted.	375.3		28	
Medium dense wet gray fine Sand, trace		40	34	
silt, organic matter noted.	368.7	45	25	
10 (continued)				

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
(continued)		47		26
medium Sand, trace silt and small gravel		50		27
				31
		55		23
				21
Very dense wet gray fine Sand, trace silt.	355.3	60		93
Boring stopped by Inspector	350.8			92
WATER LEVEL 38.0				

BORING No. S-83

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
Ground Surface	413.2 0			
Top soil	412.2			
Stiff damp brown clayey Silt, some very fine sand.	410.2	10	2.275	16
Loose damp brown very fine silty Sand, trace clay.	405.2	5	7	
Stiff damp brown sandy Silt, trace clay	401.0	13	4	1.26 37
Loose medium damp yellow and brown very fine Sand, trace silt.	382.2	35	9 10 12 27 18 28	
Medium moist sandy Silt, dense damp yellow & brown fine Sand, trace small gravel.	381.2 376.7	35	27 32	
Medium dense wet gray fine Sand, trace silt, organic matter noted.	368.7	40	39 24 41	
Medium wet gray fine to coarse (continued)		45	17	

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
(cont'd) Sand	366.2	47		30
fine Sand, medium dense wet gray fine to coarse Sand, trace small gravel and silt; organic matter noted.	357.2	50		19 37 20
Sl. clayey silt	356.7	55		
Dense wet gray fine to medium Sand, trace silt.	353.2	60		30 42
Boring stopped by Inspector.				
WATER LEVEL 37.5				

BORING No. S-84

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
Ground Surface	418.2 0			
Cinders, and Miscellaneous Fill	413.2	5	7 9 4	
Brown silty Clay	402.2	25	7 6 7	1.18
Medium dense brown fine Sand, trace silt.	377.2	40	14 24 21 28 30 28 33 36 36	1.16
Dense grey fine to coarse (continued)		45	39 40	

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
(continued)		47		39
Sand, trace small gravel and silt.	360.7	50		43 32
Boring stopped by Inspector.				
WATER LEVEL 41.0				

N = STANDARD PENETRATION TEST NUMBER - BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140# WT. FALLING 30"

QU = UNCONFINED COMPRESSIVE STRENGTH

W = WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE
B - BULGE
S - SHEAR
E - ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

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

SHEET 498 OF 526

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I – 70	82-3HVB-1	ST. CLAIR	207	177
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-85

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
Ground Surface	414.5 0			
Slag and cinder fill	404.7 9	38		
Very brown Silt	404.5 10	3		
Loose to Medium brown fine Sand, trace silt.	392.0	4		30
		6		
		7		
		15		11
		20		15
Medium brown fine Sand, trace silt.	382.5	25		14
		12		17
		30		21
Dense brown fine Sand.	378.5 35	59		
Very dense gray medium Sand, trace small gravel	377.0	52		
Medium gray fine to medium Sand, trace small gravel and silt.	369.7 45	40		28
		42		20
Medius gray fine to coarse sand, trace small gravel (continued)				

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
& silt w/org. matter	367.0 47	15		
Medium gray medium to coarse Sand	364.5 50	26		
Dense gray fine to coarse Sand, with large gravel	354.5 60	47		
		58		
		55		23
		40		
Boring stopped by Inspector. WATER LEVEL 30.0				

BORING No. S-86

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
Ground Surface	414.5 0			
Black Cinder Fill	403.5	7		
		5		
		6		
		10		49
Medium brown very fine Sand.	402.0	15		
Medium brown very fine Sand, trace silt.	381.0	15		10
		8		
		16		
		24		
		25		23
		15		
		30		17
		20		
Dense grey fine Sand, trace organic matter.	371.5	35		48
		41		
		60		30
		41		
Medium loose grey fine to medium (continued)		45		42

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
Sand, trace silt, gravel & silt.	366.5 47	25		
Medium gray fine to coarse Sand	361.0 50	17		
Dense grey fine Sand	359.5 55	31		
Boring stopped by Inspector. WATER LEVEL 38.0		57		

BORING No. S-87

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
Ground Surface	414.5 0			
Cinders.		16		
Slag.	409.5 5	8		
		6		
Brick	404.5 10	8		
Fill	399.5 15	8		
	396.0	10		
Medium brown fine Sand, trace silt.		17		
		28		
		23		21
Sand, trace silt.		24		
		30		22
		25		
		35		35
Dense brown fine Sand, trace small gravel	376.0	33		
	376.5			
Dense grey fine to medium Sand, trace small gravel.	368.5	40		50
		35		
		45		33
(continued)				

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
	47	25		
Medium gray fine to medium Sand, trace small gravel and silt.	50	17		
	363.5			
Medium gray fine to coarse Sand	55	26		
	358.5	29		
Medium gray fine Sand	356.5	39		
Medium gray fine to medium Sand, trace silt.	60	32		
	351.0	21		
Grey fine Sand	349.5 65	98		
Boring stopped by Inspector WATER LEVEL 19.0				

H - STANDARD PENETRATION TEST NUMBER - BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140 LBS. FALLING 30"

QU - UNCONFINED COMPRESSIVE STRENGTH
W - WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE
B - BULGE
L - SHEAR
E - ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

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

SHEET
499 #526

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I - 70	82-3HVB-1	ST. CLAIR	207	178
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-88

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU T. S.F.	W %
Ground Surface	414.3 0			
Cinder, Bricks, Miscellaneous Fill	5 408.3	7	4	
Loose	10	5		
	15	7	4	
medium		9		
brown	20	11		
fine		15		
Sand	25	16		
		19		
trace	30	21		
silt.	385.8	23		
Medium brown fine Sand and silt	394.8	10	28	
Dense brown fine to medium sand, trace silt.	35 378.3	39	35	
Medium brown medium to coarse Sand trace small gravel	375.3	25		
Dense grey fine to medium Sand, (continued)	40	20		
	45	24	28	

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS T. S.F.	QU T. S.F.	W %
	47	31		
trace small gravel and silt.	50 359.8	27		
Dense grey fine to coarse sand.	55 356.8	33		
	47			
Boring stopped by Inspector.				
WATER LEVEL 22.0				

BORING No. S-89

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU T. S.F.	W %
Ground Surface	414.7 0			
Cinders	5	5		
Fill	5 406.7	15		
Very loose brown fine Sand	8 406.2	3		
Loose brown Fine Sand trace silt.	10 403.7	8		
brown fine Sand, trace silt and cinders	400.7	5		
Stiff gray silty Clay trace fine Sand.	5 394.7	5 .75	24	
		8 1.2	33	
	20	5 1.0	26	
Brown very fine Sand, trace silt.	387.2	13 17 21		
Very dense grey fine Sand, trace silt.	381.2	36	15 53	
Very dense grey fine Sand, trace silt and small gravel.	35	57	43	
	40	17		
	371.7			
Medium grey fine Sand, trace silt.	371.7		23	
Medium grey fine Sand, trace small gravel and silt.	45 368.7	20		
(continued)				

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS T. S.F.	QU T. S.F.	W %
	47	17		
Medium gray fine to coarse Sand, trace small gravel and silt.	50 358.7	20		
	55	32		
Very dense gray fine Sand, trace	60	49	25	
		100		
silt	352.2		104	
Boring stopped by Inspector.				
WATER LEVEL 19.5				

BORING No. S-90

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU T. S.F.	W %
Ground Surface	417.2 0			
Brick & Clay Fill	416.2			
Loose damp brown very fine Sand, trace silt and clay.	5 408.2	6 5 3	16	
Soft moist brown and gray clayey Silt	10 403.7	5 9	.700	32 40
Loose wet brown very fine Sand, some silt.	401.2	12 9		
Loose fuzzy brown very fine Silty Sand.	399.7	4		23
Soft grey silt trace very fine sand,	20	6	.370	44
and clay	392.7	25	8	
Loose damp gray very fine Sand some silt.	390.2	9		
Loose damp gray fine Sand.	386.2	30	8	
Medium dense wet gray fine to medium Sand, trace small gravel.	35 373.2		42 68 28 28 24	
Med. wet gr. f. Sand, sm. grvl. silt and clay	wd. 45		18	

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS T. S.F.	QU T. S.F.	W %
	47	17		
Gray fine Sand, trace silt.	50 366.2	11		
Loose wet gray fine to coarse Sand, trace small gravel & silt with wood.	364.2		11	
Gray fine to medium Sand, some medium gravel.	55 358.7	40	47	
Very dense wet gray fine Sand, trace small gravel and silt.	60 343.7	63	83 92 80 51 46	
Dense wet gray fine to coarse Sand, trace sm. gravel	342.2	75		
Boring stopped by Inspector.				
WATER LEVEL 30.0				

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-1

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

SHEET 500 OF 526

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I – 70	82-3HV8-1	ST. CLAIR	207	179
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-91

IDENTIFICATION	ELEV. DEPTH	N BLOWS/1 S.F.	QU T.S.F.	W %
Ground Surface	424.5	0		
Cinders		8		
and		5		
miscellaneous		5		
Fill		13	25	
	407.0			
Stiff brown silty Clay	399.5	11	1.2	36
Medium		12	16	
dense		13		
brown		20	35	
		33		
fine		25	24	
Sand,			16	
trace		30	20	
silt.			34	
		35	39	
	376.5			
Medium dense gray fine to coarse Sand, trace silt (continued)		45	22	

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS/1 S.F.	QU T.S.F.	W %
		47		
and			34	
small				
gravel.		50	47	
	361.0			
Boring stopped by Inspector.		50/1"	49	
WATER LEVEL 39.5				

BORING No. S-92

IDENTIFICATION	ELEV. DEPTH	N BLOWS/1 S.F.	QU T.S.F.	W %
Ground Surface	414.0			
Brick,		6		
Cistern				
and				
Miscellaneous				
Fill	407.6	2	X	
Very soft brown silty Clay	406.1	2	.48	36
Loose yellow and brown very fine Sand, trace silt	401.1	10	6	
		7		
Medium		11	17	
loose				
yellow			16	
and				
brown		20	9	
fine			7	
Sand,		25	23	
trace				
silt.	387.5			
Medium yellow & brown very fine Sand, trace silt	384.1	30	11	
dense			43	
yellow &				
brown				
fine		35	61	
Sand	378.6			
Medium dense gray fine to medium Sand, trace silt	371.0	40	21	
			46	
Medium dense (continued)		45	33	

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS/1 S.F.	QU T.S.F.	W %
gray		47		
fine			39	
to				
coarse		50	20	
Sand,				
trace			16	
small				
gravel		50	26	
and				
silt,				
trace			26	
organic				
matter.		60	37	
	353.1			
Boring stopped by Inspector.		50	21	
WATER LEVEL 38.5				

BORING No. S-93

IDENTIFICATION	ELEV. DEPTH	N BLOWS/1 S.F.	QU T.S.F.	W %
Ground Surface	407.3	0		
brown very fine Sand, trace silt	404.3	5		
Medium yellow and brown very fine Sand, trace silt	388.8	10	13	
		13		
		8		
Medium yellow, brown and gray very fine Sand, trace silt	376.3	20	11	
Dense			16	
gray		42	24	
fine		42		
Sand		30	34	
Gray fine Sand, trace silt, organic mat.	374.8		24	
	373.8	35	31	
Medium gray fine to coarse Sand, trace small gravel.	361.3	40	24	
			17	
		45	18	
Medium gray fine (continued)				

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS/1 S.F.	QU T.S.F.	W %
Sand, trace silt with wood deabs.	358.8	47	15	
Medium				
to		50	16	
loose			25	
gray				
medium		55	37	
to				
coarse			37	
Sand,		62		
trace			37	
small			10	
gravel,				
trace		60	16	
organic				
matter.	338.8		24	
Dense		70	44	
gray fine Sand, trace silt	333.8		27	
Very dense gray coarse Sand, with small gravel	332.3	75	86	
Boring stopped by Inspector.				
WATER LEVEL 34.0				

H – STANDARD PENETRATION TEST
HAMMER – BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 1'''' WITH 140# WT. FALLING 30"

QU – UNCONFINED COMPRESSIVE STRENGTH
W – WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE
B – BULGE
S – SHEAR
E – ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

F.A.I RT. 70 ST. CLAIR CO. SECTION 82-3HV8-1

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

SHEET 501 OF 526

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.– 70	82-3HVB-1	ST. CLAIR	207	180
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

BORING No. S-94

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	408.0 0			
Topsoil	407.0			
Loose damp yellow and brown very fine Sand, some clay	405.0	6		
Brown very fine silty Sand	399.5	5	1.4	17
Loose damp yellow and brown Silt, trace clay some very fine sand.	396.0	12	0.8	29
Medium dry yellow and brown fine Sand, trace silt.	393.5	11		
Loose damp brown fine Sand, and silt, trace clay.	391.0	15	0.8	
Soft to medium wet silty Clay, trace fine sand.	388.5	6	1.3	44
Loose wet dark gray fine Sand.	386.0	20	0.9	
Loose wet grey very fine Sand, some silt.	384.0	6		
Medium dense damp gray fine Sand, trace silt.	367.5	25	1.7	40
Medium wet gray fine silty Sand	365.0	19	3.8	17
Medium wet gray		45	3.0	
(continued)				

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(continued)		47		27
fine to coarse Sand, some small gravel.	353.5	50		14
Dense wet gray fine Sand, trace silt.	352.0	55		44
Dense wet gray fine to coarse Sand, trace small gravel & silt	349.5			35
Very dense wet gray fine Sand,		60		64
		65		68
		70		63
		70		93
Medium wet grey fine Sand, trace silt.	337.0			16
	334.0			
Gray fine to coarse Sand, some fine gravel and thin silt seams		75		40
		80		31
		80		39
	325.5			29
Boring stopped by Inspector.				
WATER LEVEL 32.0				

BORING No. S-95

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	406.7 0			
Medium damp yellow and brown very fine to coarse Sand, trace silt.	391.7	15		18
Soft gray silty clay	389.5	6		
Medium dense gray fine to coarse Sand, some fine gravel and thin silt seams		20		16
		25		27
		30		6
		30		20
		35		13
		40		30
		45		18
		50		25
		50		20
		50		21
(continued)				

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(continued)		47		30
and small gravel.	350.7	50		20
		55		53
		55		41
4' wood	346.7	60		89
Medium wet gray fine Sand	345.7			
Dense wet gray fine to coarse Sand, some gravel.	339.2	65		37
		65		46
		70		50
Boring stopped by Inspector				
WATER LEVEL 30.0				

BORING No. S-96

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	411.6 0			
Cinders, Sand, Brick and Miscellaneous Fill	407.6	7		
		7		
		4		
Loose brown silty fine Sand	402.1	10	0.6	24
		4		
Medium damp yellow & brown fine Sand	396.1	15		
		12		
		20		19
Medium yellow and brown fine to coarse Sand, trace silt.	379.1	25		12
		30		20
		35		20
Medium yellow and brown medium Sand	376.1	40		29
Medium brown medium to coarse Sand, trace small gravel and silt.	369.6	45		34
		45		26
Medium (continued)				26

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(continued)		47		22
gray coarse Sand, trace small gravel and silt.		50		25
		55		27
		55		25
	369.1			
Dense gray fine Sand, trace silt	357.6			31
Medium dense gray fine to coarse Sand.		60		29
		65		48
		65		29
	348.1			23
Medium dense gray fine to coarse Sand.		70		21
		75		33
		75		38
		80		43
	332.6	80		32
Boring stopped by Inspector.				
WATER LEVEL 40.0				

N – STANDARD PENETRATION TEST NUMBER – BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140# WT. FALLING 30"

QU – UNCONFINED COMPRESSIVE STRENGTH
W – WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE
B – BULGE
S – SHEAR
E – ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

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

SHEET 502 OF 526

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. - 70	82-3HVB-1	ST. CLAIR	207	181
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-97

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	414.6 0			
Cinder and Miscellaneous Fill	410.6 4	10		
Loose to dense gravish brown very fine Sand, trace silt.	373.6 41	7 9 12 20 25 43 34 27		
Medium dense grey very fine Sand, trace silt	376.6 38	28 48		
Medium to very dense grey fine to coarse Sand, trace silt.	373.6 41	24 40		
Very dense grey fine Sand, trace silt and organic matter.	368.6 46	79 60		
(continued)				

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(continued)	414.6 47			
dense grey fine to coarse Sand, trace small gravel	364.6 50	39 63		
Boring stopped by Inspector.				
WATER LEVEL 37.0				

BORING No. S-98

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	411.0 0			
Cinder Fill	411.3	8		
Broken concrete Fill	409.0 5			
Brick, sand and cinder Fill	406.0	5		
Loose black fine Sand, brick and cinder Fill	402.5	10 7		
Brown very fine silty Sand, trace clay.	397.7	7 12 22		29 17
Medium yellow and brown fine Sand, trace silt.	380.5	22 20 20 25 14 30 16		
Medium dense grey fine to medium Sand	373.5 40	35 23 58 43		
Dense grey fine to medium Sand.	371.0	59		
Dense grey fine		45		48
(continued)				

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(cont'd) Sand	366.0 47	35		
loose gray fine to coarse Sand, some small gravel.	360.0 50	32		
Boring stopped by Inspector.				
WATER LEVEL 38.5				

BORING No. S-99

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	410.0 0			
Cinders, and Brick Fill	405.5	7 4		
Loose yel.&brn.v.f. Sand & Cinder Fill	404.5	8		
Loose yellow and brown very fine Sand, black organic matter noted.	399.0 10	6		
Loose gray fine Sand.	396.0	9		
Soft gray clayey Silt.	391.0	2 6		30 44
Medium dense yellow and brown fine Sand, trace silt.	378.0	20 16 16 25 26 20 10 43		
Dense gray fine to medium Sand, trace silt.	372.0	35 35 36 36		
Medium gray fine Sand, trace organic matter noted.	367.0 40	23 22		
Medium gray fine		45		27
(continued)				

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(continued)	47			
to medium Sand, trace silt.	359.0 50	26 32		
Dense gray fine to coarse Sand, trace silt.	355.0 55	30 44		
Boring stopped by Inspector.				
WATER LEVEL 32.0				

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-1

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

SHEET 503 OF 526

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. – 70	82-3HVB-1	ST. CLAIR	207	182
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-100

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT.	QU T.S.F.	W %
Ground Surface	408.1 0			
Cinder,		4		
sand,		7		
gravel,		8		
stone,		4		
bricks,	12	6		
wood,		5		
miscellaneous				
fill	391.6			
Loose to medium gray fine sandy silt	20	18		
	387.1			
Medium		5		
gray	4.2	11		
fine		11		
sand				
	378.6			
Medium yellow & brown fine Sand, trace silt.	3.0	1		
	375.1	29		
Dense yellow and brown fine sand	35	33		
	359.0	43		
Medium yellow and brown fine to coarse Sand, trace small gravel and silt.	41	30		
	367.1			
Medium dense gray fine Sand, (continued)	41	25 33		

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT.	QU T.S.F.	W %
(continued)	47	40		
trace silt.	50	42		
	357.1			
Medium dense gray fine to coarse sand, trace small gravel and silt.	48	28 44 29		
	348.1	46		
Boring stopped by Inspector.				
WATER LEVEL 40.0				

BORING No. S-101

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT.	QU T.S.F.	W %
Ground Surface	412.3 0			
Cinders		2		
and		5		
slag		2		
fill	404.3			
Medium yellow & brown very fine sand, trace silt.	401.3	14		
Loose brown very fine Sand, some silt.	391.3	5 15 7 20		4
Loose gray very fine Sand.	389.3	4		
Soft gray clayey silty sandy silty	381.3	3 4 4 9	25	47
Medium gray very fine Sand, trace silt.	378.8	10		27
Very loose gray sandy silt	376.3	3 4		43
Medium gray very fine sand	373.3	26		
Dense gray fine sand, trace silt.	369.3	40 44 32		
Medium gray fine to (continued)		45 18		

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT.	QU T.S.F.	W %
(continued) medium	47	15		
sand,	360.3			
Loose gray fine to medium Sand, trace silt.	351.3	13 19 30 60		29
Dense gray fine to medium sand, trace silts.	344.8	65		55
		77		
Boring stopped by Inspector.				
WATER LEVEL 36.0				

BORING No. S-102

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT.	QU T.S.F.	W %
Ground Surface	414.8 0			
Cinder,		4		
Gravel,				
and		5		
slag		4		
fill		21		
	406.3			
Loose brown very fine to fine silty sand,	395.8	10 11 15		4 5 6
Loose brown very fine Sand,	390.3	5		37
Soft gray silty clay	388.8	2 2	1.25	32
Medium gray very fine Sand, trace silt.	381.8	30 17		
Medium gray fine sand with organic matter	377.8	33 17		
Medium gray fine to coarse sand, trace small gravel.	371.3	40 24		
		log encountered.		
Medium gray fine to (continued)		45 25		

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT.	QU T.S.F.	W %
(continued)	47	18		
to coarse Sand, trace small gravel and silt.	358.8	55 20 21 17		
Medium gray fine to medium sand, trace silt.	351.8	18		
Dense gray fine to medium sand, trace silt.	346.8	50 16		
Dense gray coarse sand, with gravel & rock fragments.	346.8	50		43
Dense gray medium Sand, trace gravel & 1" gray silty clay seam.	343.8	70		41
Dense gray medium to coarse Sand, some small gravel, trace silt.	339.8	74		41
Boring stopped by Inspector.				
WATER LEVEL 38.0				

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-1

H.W. LOCHNER INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 506 OF 526

ROUTE NO.	SECTION	COUNTY		
F.A.I. - 70	82-3HVB-I	ST. CLAIR	207	183
FED. ROAD DIV. NO. 5	ILLINOIS	PROJ.		

BORING No. S-103

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
Ground surface	414.2 0			
Cinder and Brick Fill	406.7	13		
Loose yellow and brown very fine silty Sand	404.7	14		
Soft brown silty Clay	402.0 10	5	.9	30
Loose yellow and brown very fine silty Sand	400.7	6		
Medium brown clayey Silt with very fine Sand	389.7 25	15	1.1E	27
Medium gray very fine Sand, trace silt	386.7	8	1.3E	34
Medium gray very fine Sand and Silt	376.7 35	9	1.1E	34
Medium dense gray fine (continued)	45	41		30
		13		
		17		
		29		
		84		
		53		
		27		
		32		

IDENTIFICATION (CONTINUED)	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
	47	35		
to coarse Sand, trace silt, trace organic matter noted.	53.7	24		
		35		
	55	18		
		33		
	60	43		
Boring stopped by Inspector.	151.7	118		
WATER LEVEL 52.0				

BORING No. S-104

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
Ground Surface	411.6 0			
Cinders and Top soil Fill	407.6	20		
Medium brown fatious silty Sand	405.1	5		
Loose gray and brown fine Sand, trace silt	402.1	5		
Soft gray silt and clay, trace very fine Sand.	396.6 15	7	1.2	34
Soft gray clayey Silt and Sand	385.1	6	1.0	30
Medium gray fine to medium Sand, trace silt.	377.6 34	4	.7E	30
Dense gray fine to medium Sand, trace silt.	371.6 40	4	.7E	34
Dense gray coarse Sand.	45	20		
(continued)		25		
		55		

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
	47	23		
trace silt with small gravel.	50	36		
		17		
	338.1			
Dense gray coarse Sand, trace silt	55	70		
	340.6			
Dense gray fine silty Sand	342.1	44		
Boring stopped by Inspector				
WATER LEVEL 33.0				

BORING No. S-105

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
Ground surface	412.4 0			
Cinder and Miscellaneous Fill	409.4	12		
Very loose yellow and brown very fine Sand, trace silt	404.4	5	4	
Stiff brown silty Clay	401.4 10	3		41
Medium yellow and brown very fine Sand, trace silt	389.4 25	9	1.5	32
Loose gray fine Sand, trace silt and organic matter	387.4 45	17		
Medium yellow and brown fine Sand	367.4	11		
Dense gray fine to coarse Sand, trace small gravel	366.4	21		
		34		
		14		
		17		
		36		
		35		
		31		
		26		
		29		
		48		

IDENTIFICATION	ELEV. DEPTH	N BLOWS/FT	QU T.S.F.	W %
	47	257		
Oak log (Partially decayed)	304.4			
Dense gray fine to coarse Sand, trace small gravel and silt	50	29		
		46		
		28		
	55			
		46		
		62		
	252.4			
Boring stopped by Inspector.				
WATER LEVEL 35.0				

N - STANDARD PENETRATION TEST NUMBER - BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140 LBS. FALLING 30"

QU - UNCONFINED COMPRESSIVE STRENGTH
W - WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE
B - BULGE
S - SHEAR
E - ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

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

SHEET
505 of 526

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.I - 70	82-3HVB-1	ST. CLAIR	207	184
FED. ROAD DIV. NO. 8	ILLINOIS	PROJECT		

BORING No. S-106

IDENTIFICATION	ELEV. DEPTH	N	BLOWS T.	QU T.S.F.	W %
Ground Surface	412.3 0				
Very loose black cinder, brick and miscell-neous fill	5 407.3	2	2		
Loose yellow & brown very fine Sand, trace silt	402.8	5			
Brown clayey silt	400.3	2	0	.08	24
Gray silty Clay	395.8	4	5	.8 3.1	24 24
Very loose gray silty clay	392.3	4	4	.4	24
Medium brown fine to medium Sand, trace silt	388.3	24	18		
Medium brown fine Sand	384.8	25	16		
Medium gray & brown fine Sand	380.8	30	26		
Lt. Br. Med. Sand	380.3				
Medium gray fine Sand	380.1		29		
Medium brown fine Sand	375.8	35	19		
Medium gray medium Sand	371.8	40	16		
Medium gray fine Sand, trace silt	367.8	45	22		
(continued)					

IDENTIFICATION	ELEV. DEPTH	N	BLOWS T.	QU T.S.F.	W %
(continued)	365.3	47	36		
Medium gray fine to coarse Sand, trace silt	360.8	55	25 29 20		
Sand, trace gravel	343.3	55	28 29 37		
Dense grey fine Sand, trace silt	336.8	65	44		
Dense grey very fine Sand, traces organic matter	331.8	75	32 24.5		
Boring stopped by Inspector.					
WATER LEVEL 17.0					

BORING No. S-107

IDENTIFICATION	ELEV. DEPTH	N	BLOWS T.	QU T.S.F.	W %
Ground Surface	414.4 0				
Medium silt, sand, and cinder Fill	407.4	5	13		
Medium brown fine Sand, trace silt, some cinders	401.9	13	10		
Medium brown medium Sand, trace silt.	399.4	15	9 11		
Medium grey fine Sand, trace silt.	391.9	24	13 16		
Medium gray fine Sand, trace silt.	389.4	25	12		
Medium grey fine silty Sand	381.9	30	14 12		
Dense gray medium Sand	379.4	35	18		
Dense gray medium to coarse Sand, trace silt.	367.4	40	38 36 26		
Dense (continued)			23		

IDENTIFICATION	ELEV. DEPTH	N	BLOWS T.	QU T.S.F.	W %
(continued)	367	47	47		
Gray coarse Sand, trace silt	351.9	55	27 14 12 28		
Very dense grey fine Sand, trace silt.	336.9	60	92 60		
Boring stopped by Inspector.					
WATER LEVEL 36.9					

BORING No. S-108

IDENTIFICATION	ELEV. DEPTH	N	BLOWS T.	QU T.S.F.	W %
Ground Surface	410.3 0				
Brick, Cinders, Sand & Miscellaneous Fill	407.8	10			
Brick and Slag Fill	405.3 5	29			
Slag Fill	401.8				
Loose brown Silt, trace clay	400.3 10	6			
Loose brown fine Sand, trace silt.	395.6	7	13		22
Medium yellow and brown silty fine Sand.	389.0	27	19 26 20		
Loose grey very fine Sand	380.3	37	19		
Dense dark gray fine to medium Sand	375.3	35	49		
Dense salpt gray fine to coarse Sand	368.8	40	30 33		
Dense gray fine to coarse Sand	365.3	45	30		
Medium (continued)					

IDENTIFICATION	ELEV. DEPTH	N	BLOWS T.	QU T.S.F.	W %
(continued)	357	47	42		
Dense gray fine to medium Sand, trace gravel	352.8	50	19 26 31		
Very dense gray fine Sand, trace silt	350.3	60	29 74		
Boring stopped by Inspector					
WATER LEVEL 38.0					

N - STANDARD PENETRATION TEST NUMBER - BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 11" WITH 140 LBS. FALLING 30"

QU - UNCONFINED COMPRESSIVE STRENGTH
W - WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE
B - BULGE
S - SHEAR
E - ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

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

SHEET 506 OF 525

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I – 70	82-3HVB-1	ST. CLAIR	207	185
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-109

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	413.8 0			
Cinder,		7		
sand,	5	16		
bricks,		35		
and				
miscellaneous	12	5		
fill.		4		
	15	6		
	277.8			
Gray silt with very fine sand	23	9		40
	392.8			
Very soft gray silty clay, loose fine sand.	25	2		44
	386.4			
Very soft gray silty clay	30	3	1,1E	44
	382.8			
Dense gray medium sand, trace silt	35	15		
	377.8			
Dense gray fine Sand		43		
	375.8			
Medium dense gray fine Sand, some silt	40	33		
	372.2			
Very dense gray medium to coarse Sand		26		
	371.8			
V. dense gray fine sand, trace gravel.	45	55		
	367.8			

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Dense gray fine Sand	47	38		
	363.3			
Medium to dense gray fine Sand, trace silt.	55	23		
	355.3			
Medium gray medium to coarse Sand, trace silt and gravel	60	20		
	348.8			
Grey fine Sand		44		
	343.3			
Boring stopped by Inspector.				
WATER LEVEL 47.0				

BORING No. S-110

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	411.2 0			
Cinder, slag, brick, Fill		16		
	400.2			
very loose brown & gray very fine sandy silty		4		
	402.2			
loose cinders, clay, brick, wood & brown very fine sandy silt		11		
	397.2			
Loose gray very fine silty Sand with organic silt lenses.		12		
	390.2			
Very soft gray silt, some fine Sand and organic matter		2		
	382.0			
Medium gray fine to medium Sand, some gravel, trace silt.		20		
	373.0			
Medium gray fine to medium Sand, with some gravel, trace silt.	40	10		
		19		
		8		
		25		
	365.2	33		

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Gray	47			
Medium dense fine to coarse Sand trace silt, few small to medium gravels.		85		
	351.7			
white gray silty fine sand, few organic lenses	348.0	50		21
		43		
dense gray coarse sand with small gravel trace silt.	343.7	65		20
Boring stopped by Inspector				
WATER LEVEL 33.0				

BORING No. S-111

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	409.9 0			
Cistern,		10		
Slag,	5	16		
and		25		
brick		13		
Fill	15	14		
	393.4			
Medium gray very fine silty sand	390.9	12		
Very soft gray clayey silt, trace fine sand	385.9	2		
		3	.25E	34
		3	.25E	34
		3		40
	378.9	3		
Very loose gray very fine silty sand	376.4	4		
Medium gray fine Sand, trace silt.	368.9	35		35
		23		
		39		
Medium dense gray fine Sand, trace silt.		32		
		37		
(continued)				

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(continued)	47	24		
coarse Sand	50	16		
	358.9			
Medium gray coarse Sand, trace small gravel.	45	29		
	353.9			
Medium dark gray fine to coarse Sand, trace small gravel and silt	40	18		
	348.9			
Dense wet gray Sand	340.9	42		
Medium gray fine to coarse Sand, trace small gravel or silt	45	35		
	334.9	28		
Dense gray fine to coarse Sand & small gravel.	80	71		
	327.9	36		
Boring stopped by Inspector.		28		
WATER LEVEL 33.0				

N – STANDARD PENETRATION TEST NUMBER – BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140# WT. FALLING 30"

QU – UNCONFINED COMPRESSIVE STRENGTH

W – WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE B – BULGE S – SHEAR E – ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

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

SHEET 507 OF 526

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.I – 70	82-3HVB-1	ST. CLAIR	207	186
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-112

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground surface	416.5 0			
black				
and		7		
brown				
Cinders	5	7		
and		14		
Miscellaneous				
Fill	12	13		
Medium	404..	9		
yellow &				
brown	14	11		
fine		13		
Sand	397.0			
Very	22	4		
loose				
to		5		
loose				
brown	25	5	1.0	27
silty				
Clay	389.5	11		
Medium				
gray	34	20		
very				
fine	35	24		
Sand,		27		
trace				
silt	40	20		
	376.0	36		
Very dense gray fine Sand, trace silt.	370.5	47		

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Dense	47	30		
gray				
fine				
to	53	37		
coarse				
Sand,		43		
trace				
small				
gravel	60	19		
and				
silt.	369.0	31		
Boring stopped by Inspector.				
WATER LEVEL 41.2				

BORING No. S-113

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface.	417.5 0			
Miscellaneous Fill	15.9	14		44
		5		
		11		
		19 4		
		20 8		
Soft	395.5	4		
brown silty Clay, trace fine Sand.	390.6	25 2		
Medium yellow and brown with gray very fine Sand, trace silt.	370.5	30 24		
		24		
		35 24		
		17		
		40 20		
Medium to very dense gray (continued)		45 14		

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(continued) fine to coarse Sand, trace silt.	366.0	47 54		
		50 67		
Medium dense gray very fine Sand.	356.5	50		
		55 46		
		28		
		60 12		
Medium dense gray fine to coarse Sand, small to large gravel and silt.		33		
		65 8		
		12		
		70 13		
		29		
		75 40		
		46		
		80 51		
		21		
		85 25		
		23		
		90 15		
		17		
		95 34		
		29		
Boring stopped by Inspector.	317.5 100	34		
WATER LEVEL 41.0				

BORING No. S-114

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	413.9 0			
Cinders, coarse gravel and miscellaneous fill	410.9	91		
Very loose fine Sand, trace silt.	408.4	5		4
Very loose gray silty, clayey, Sand	405.9	3		
Very loose gray fine Sand, trace silt.	402.9	19		3
Very loose gray very fine Sand, some silt.	397.4	3	0.5	43
		15	4	27
Loose gray very fine Sand, trace silt.	395.4	5		27
Medium gray silty medium to fine Sand	390.4	20	15	
		15		
Medium gray fine Sand, trace silt.	372.9	25	18	
		10		
		30	20	
		27		
		35	20	
Medium dense gray coarse Sand	370.9	43		
		40	29	
		34		
Dense gray fine (continued)		45	39	

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(continued) Sand, trace silt.	361.9	47 50		
Boring stopped by Inspector.				
WATER LEVEL 41.0				

N – STANDARD PENETRATION TEST NUMBER – BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140 LB WT. FALLING 30"

QU – UNCONFINED COMPRESSIVE STRENGTH
W – WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE
B – BULGE
S – SHEAR
E – ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

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

SHEET 500 OF 526

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.I. – 70	82-3HVB-I	ST. CLAIR	207	187
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-118

IDENTIFICATION	ELEV. DEPTH	N BLOWS T S.F.	QU	W %
Ground Surface	412.3	0		
Slag				
	409.8			
Black Cinders, Sand, and Subgrade to Base	406.8	5		5
Loose dark brownfine Sand, some silt.	405.3			
Soft dark brown silty clay, trace fine sand.	397.8	6	.6	31
Loose brown trace silt	395.3	15		9
Loose brown sandy Silt	392.8			
Medium yellow and brown very fine Sand, trace silt	386.3	25		23
Medium grey sandy silt.	383.3	30		14
Medium grey fine Sand, trace silt.	381.3	30		11
Loose grey Silt, and very fine Sand.	378.3			4
Dense to very dense grey fine Sand.	371.3	35	47	31
Dense grey		40	33	
fine Sand.		45	54	
trace (continued)				

IDENTIFICATION	ELEV. DEPTH	N BLOWS T S.F.	QU	W %
(continued)	47	122		
silt.	361.8	50		33
Medium grey fine to coarse Sand, some small gravel, trace silt	347.8	65		45
Dense grey fine Sand.	343.3	74		34
Dense to very dense grey fine to coarse Sand, trace silt and small gravel	333.3	80		41
Dense grey fine to coarse Sand, with small to large gravel, trace silt.	330.3	85		29
Medium to v.dense grey fine to coarse Sand, with small gravel, trace silt, some limestone fragments.	319.8	92		27
B.Boring stopped by Inspector.		50/1"		
WATER LEVEL 34.0				

BORING No. S-119

IDENTIFICATION	ELEV. DEPTH	N BLOWS T S.F.	QU	W %
Ground Surface	410.6	0		
Cinders, brick, Sand Fill and Concrete Slag from 1' to 1.2'	408.1			
Loose brown very fine Sand, some silt.	404.6	5		7
Soft grey and brown silty Clay	402.1	6		
Loose to medium grey and brown very fine Sand, with silt seams.	397.1	10	1.5	30
	391.1	25	2.0	27
Medium		24		10
		30		10
grey		25		9
fine Sand, with silt seams.		14		
		30		12
	377.6	14		
Dense grey medium Sand, trace silt.	371.6	35		44
		40		43
Medium grey to medium Sand, trace silt.		40		18
		45		17
		45		33
Sand, (continued)				

IDENTIFICATION	ELEV. DEPTH	N BLOWS T S.F.	QU	W %
(continued)	47	35		
trace silt and wood chips.	357.6	50		22
Loose grey fine to coarse Sand, trace silt.	352.1	55		9
V.Loose gray small gravel, some fine to coarse Sand, 1/8 to 2" wood seams.	347.1	60		2
Very loose grey medium Sand, tr.silt 1/8 - 2" wood seams	345.6	65		12
Dense grey fine to medium Sand, trace silt.	339.6	74		7
		74		33
Dense grey fine to medium Sand, trace silt & small gravel.	334.6	75/6"		64
	331.6	100		104
Medium dense grey fine to coarse Sand, trace silt		60		22
		65		28
		80		30
		90		45
		95		55
		95		19
		100		35
Boring stopped by Inspector.	310.6	100		21
WATER LEVEL 32.5				

BORING No. S-120

IDENTIFICATION	ELEV. DEPTH	N BLOWS T S.F.	QU	W %
Ground Surface	411.8	0		
Cinders, bricks, clay and slag Fill	406.8	5	51	
Stiff gray and brown silty clay	400.8	9	1.0	27
Medium brown clayey Silt, some fine Sand.	396.8	10	.5	27
		15	.5	34
Medium gray and brown fine silty Sand.	388.8	15		11
Medium		25		14
dense		30		21
gray fine to medium Sand, some silt.		30		25
		35		32
		40		37
	367.8			
Medium grey medium Sand, (continued)		45		21

IDENTIFICATION	ELEV. DEPTH	N BLOWS T S.F.	QU	W %
(continued) trace silt.	363.3	47		25
Dense medium grey fine Sand, trace silt.	347.3	50		45
		60		42
Boringstopped by Inspector.				
WATER LEVEL 41.0				

N – STANDARD PENETRATION TEST NUMBER – BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLE 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-I

H W. LOCHNER, INC
ENGINEERS
CHICAGO ILLINOIS

SHEET 50 OF 526

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I – 70	82-3HVB-1	ST. CLAIR	207	188
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-121

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU T. S.F.	W %
Ground Surface	410.0 0			
Cinders, brick and miscellaneous Fill	399.5 10	12 10 11 16		
Very soft brown Silt	396.0	4	30	
Medium brown fine Sand, trace silt,	376.0	12 5 11 20 26 21		
Medium gray fine Sand, trace silt, organic matter noted,	372.0	22 21 13		
Loose gray very fine to coarse Sand, trace small gravel,	367.0	40 7 19 15		
Medium (continued)				

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS T. S.F.	QU T. S.F.	W %
	47			24
gray medium Sand, trace small gravel,	352.0	50/3 45		23 17 15
Very tense gray fine to coarse Sand, trace small gravel	349.0	50/0		60
Very dense gray fine Sand	347.0	109		
Dense gray fine to coarse Sand, trace small gravel.	326.0	67		34 37 41 49
Very dense gray fine Sand, trace silt, Boring stopped by inspector.	324.975	55		
WATER LEVEL 37'				

BORING No. S-122

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU T. S.F.	W %
Ground Surface	417.2 0			
Cinders, ballast, crushed rock, Fill	407.9 5	47 7 10		
Medium brown fine Sand, trace silt.	405.0 10	10		
Loose brown clayey Sand, & Silt	399.7	15		11 10
Brown fine Sand, trace silt,	395.2	20		11 23
Medium yellow and brown fine Sand, trace silt,	379.7	25 35		21 26 13
Medium gray very fine Sand, with decayed wood organic	374.7	40		17 28
Medium gray fine sand, trace silt,	372.245	25		
Very dense gray fine sand, trace silt and coarse (continued)				

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS T. S.F.	QU T. S.F.	W %
gravel.	369.7 47	113		
Dense gray fine Sand	367.2 50	34		
Very dense grey very fine to medium Sand,	357.2 60	76 88 89		
Gray coarse Sand and Gravel	354.7	30		10
Medium to very dense gray fine Sand, trace silt.	349.7	65		25 54
Very dense gray fine to medium Sand, trace silt.	342.2 75	74		54 183 37
Gray medium to coarse Sand, trace organic matter.	339.7	85		
Very dense to medium gray fine to coarse Sand, trace small gravel and silt.	334.7	84		19
Medium dense gray fine to coarse Sand, trace small to medium gravel and (continued) silt, organic.	322.2 95	85		25 34 38 44 25
Boring stopped by inspector.				
WATER LEVEL 36.0				

BORING No. S-123

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU T. S.F.	W %
Ground Surface	417.6 0			
Cinder Fill	412.6 5	6 73 3 4		
Very loose brown silt, with very fine sand.	409.1	3		24
Loose brown silt and very fine Sand, trace clay.	395.6 22	15 3 12 5		31 24 41
Medium yellow and brown fine Sand,	382.1 35	14 11 18 20		
trace silt.		16		
Medium grey fine Sand, trace silt.	378.4	21		
Gray silt				
Medium gray fine to medium Sand, tr. silt, org.mat.noted	378.1 40 376.6	25		
Medium dense (continued)	45	26 25		

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS T. S.F.	QU T. S.F.	W %
	47	28		
gray fine to coarse Sand, some small to medium gravel.	50 55	53 70 43		
tr. silt.	359.1	58		
Medium gray fine to coarse Sand, some small to medium gravel.	60 65	20 15		
Medium gray fine to medium Sand	350.1	25		
boring stopped by inspector.		21		
WATER LEVEL 42.0		7		

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-1

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

SHEET 510 OF 526

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.I – 70	82-3HVB-1	ST. CLAIR	207	189
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-124

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU T. S.F.	W %
Ground Surface	417.8 0			
Black		3		
Cinders	5	25		
and		2		
	10	9		
miscellaneous				
Fill		12		
	401.3			
Loose Gray clayey Silt	399.8	5		34
Loose gray Silty very fine Sand	20	8		
	396.3			
Medium brown very fine Sand, trace silt.	25	22 16		
	393.3			
Medium		18		
dense	30	40		
gray		34		
fine	35	24		
Sand,		24		
trace				
silt	40	17		
Medium Gray Silt	376.8 376.3			
Medium		20		
gray				
fine				
Sand,	45	24		
trace (continued)				

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU T. S.F.	W %
(continued)	47	17		
silt	368.8			
Dense gray fine to coarse Sand, small gravel.	52	20		
		44		
	50	48		
	361.8			
Very dense gray very fine Sand, trace silt	357.8 60	215		76
Boring stopped by Inspector.				
WATER LEVEL 41.0				

BORING No. S-125

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU T. S.F.	W %
Ground Surface	411.6 0			
Cinders, Brick, Rock fragments		8		
Fill	5	31		
	405.6	22		
Gray Clay, trace silt.	11	3	.7	32
	402.6			
Brown and gray fine Sandy Silt	15	4	.7	27
	397.6			
Brown very fine Sand, trace silt & black organic matter mixed.	392.1	13		
Medium brown fine to medium Silty Sand	25	10 11		
	386.6	13		
Medium gray silty Sand	380.1	17		
Medium gray very fine Sand	377.6	35	20	
Medium gray very fine Sand, trace silt & clay.	375.6		21	
Dense gray fine Sand, trace silt.	370.6	40	26	
		30		
Loose to dense gray fine (continued)		45	9	

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU T. S.F.	W %
(continued)	47	9		
to medium Sand, trace small gravel.	362.6	50	33	
Dense gray fine Sand	357.6	55	65 35	
Medium dense gray fine to coarse Sand, trace silt.	348.1	60	21 57 36	
Medium dense gray			33	
		70	31	
			44	
Sand	335.6		26	
Fine to coarse Sand, trace silt some limestone fragments	331.6	80	26	
Boring stopped by Inspector.				
WATER LEVEL 37.0				

BORING No. S-126

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU T. S.F.	W %
Ground Surface	413.9 0			
Cinders, Slag & Brick		30		
Fill	409.9			
Loose gray medium silty Sand	404.9	5	7	
Loose to medium gray silty very fine Sand, some clay.	398.4	15	7	1.4 30
		4	1.4	37
		7	1.4	37
Medium gray and brown fine Sand, trace silt and clay.	392.9	20	10 14	
Medium brown fine Sand, trace silt.	384.4	25	37 21 16	
Medium gray fine Sand, some silt.	379.9	30	20 18	
Loose gray fine Sand, silt lenses	377.9	35	9	27
Medium dense gray fine to (continued)		45	48 26 16 38	

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU T. S.F.	W %
(continued)	47	37		
medium Sand, trace silt.	361.9	50	27 37 58	
Dense gray fine to medium Sand, trace silt with small gravel.	347.9	60	47 128	
		65	34	
Gray medium to coarse Sand & small gravel, trace silt	346.4	70	30	
Boring stopped by Inspector.				
WATER LEVEL 35.0				

N – STANDARD PENETRATION TEST NUMBER – BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140 LBS. WT. FALLING 30"

QU – UNCONFINED COMPRESSIVE STRENGTH
W – WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE
B – BULGE
S – SHEAR
E – ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

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

SHEET 511 OF 526

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I - 70	82-3HVB-1	ST. CLAIR	207	190
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-127

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	412.3	0		
Cinder, brick fragments, and miscellaneous Fill	402.8	10		
Loose brown silty fine Sand	400.3	7		31
Loose brown & gray clay with silt, trace fine sand.	398.3	4	.8e	32
Loose gray silty fine Sand	395.8	15		43
Medium brown fine Sand, trace silt.	389.3	23		26
Medium grey silty very fine Sand	386.3	22		19
Medium brown fine Sand	383.8	23		
Medium loose gray fine Sand	375.3	30	25	
Medium to dark grey very fine Sand, some silt.	368.8	40		16
Gray fine (continued)		45		32

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(continued)		47		25
to medium Sand, trace silt.		50		29
Sand, trace silt and small gravel.		45		21
Very dense gray fine Sand	353.3	60		63
Medium gray fine to coarse Sand, little small gravel	351.3	65		21
Gray fine to coarse Sand, trace fine to coarse gravel, some wood	344.3	70		17
Dense to very dense gray fine to medium Sand, trace silt.	341.3	75		45
Boring stopped by Inspector.	337.2	75		50

WATER LEVEL 36.0

BORING No. S-128

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	417.7	0		
Cinders, fill, an. Miscellaneous Fill	409.7	3		
Medium brown clayey Silt, trace fine sand.	406.7	5		
Loose brown fine Sand, trace silt.	400.7	15		
Medium gray silt.	400.2	7		
Medium loose brown silty trace fine sand.	394.7	20		
Medium brown fine Sand, trace silt.	391.2	25	10	
Medium grey very fine Sand, trace silt.	386.2	30	14	
Medium grey fine Sand, trace silt.	379.7	35	22	21
Loose gray very fine Sand, trace silt.	372.7	40	11	8
Gray medium Sand	371.2	45		6

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Loose gray very fine Sand, and organic matter, 1½ Feet.	416.2	47		6
Dense gray medium to coarse Sand, trace small gravel.	368.7	50		23
Very dense gray medium Sand, trace silt.	356.2	55		34
Medium (continued) gray coarse Sand, trace small gravel, trace silt.	348.7	60		28
Boring stopped by Inspector.	337.7	70		24
		75	80	31

WATER LEVEL 45'

BORING No. S-129

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	416.0	0		
Cinders small boulder, brick fragment, Fill	413.5	5		
Loose gray silty very fine Sand	401.5	5	2	
Medium brown silty clay, trace Sand	397.0	15	6	.9 27
Brown medium fine Sand, trace silt.	384.0	20	7	1.2 24
Medium dense grey fine Sand, trace silt.	375.0	35	17	
Gray fine silty Sand, organic matter (continued)		45	19	

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(continued) noted.	368.0	47		25
Dense to very dense grey fine Sand, trace silt and organic matter.	360.0	50		41
Medium dense gray medium to coarse Sand, some small gravel, trace organic matter and silt.	352.5	55		52
Gray fine to coarse Sand	350.0	60		27
Gray fine to coarse Sand, some wood fragments, trace silt.	338.5	65		74
Boring stopped by Inspector.		70		43
		75		51
		80		32

WATER LEVEL 38.6

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-1

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

SHEET 5 (2 of 5) 26

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.I.-70	82-3HVB-1	ST. CLAIR	207	191
FED. ROAD DIV. NO. 4	ILLINOIS	*SUBJECT		

BORING No. S-130

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	411.6 0			
Bioturb, and miscellaneous fill.	409.1			
Medium to very loose brown very fine silty Sand, trace clay.	5	12		
		2		
	401.1 10	4		
Loose brown and gray clayey Silt	15	6	1.0	30
	395.6			
Loose gray Silt, trace very fine Sand.	392.6	5		
Medium brown very fine Sand with	20	14		
		10		
silt.	387.6			
Medium gray very fine Sand, trace silt.	25	11		
		13		
		30	14	
	380.1			
Dense gray fine Sand, trace silt.	35	46		
	375.6			
Medium dense gray fine to coarse Sand, (continued)	40	11		
		15		
		26		
		45	19	

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(continued)	47	18		
trace small gravel.	50	34		
	358.6	32		
Medium gray fine Sand and Silt	45	23		
	355.1			
Very dense gray coarse Sand, trace small gravel and silt	60	58		
		14		
		55		
		65		
		43		
		30		
	343.1			
Dense to very dense gray fine to coarse Sand, trace small gravel and silt.	70	37		
		35		
		75		
		30		
		63		
		80	75	
x silt.	330.6			
Medium dense gray coarse Sand, trace small gravel and silt.	85	25		
		20		
		45		
		90	31	
	319.1			
Boring stopped by inspector.		31		

WATER LEVEL 36.0

BORING No. S-131

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	411.3 0			
Topsoil.				
Loose brown fine Sand, some silt.	5	5		
		8		
		8		
	10	6		
	397.8	5		
Very loose brown sandy Silt	15	4	.5e	44
	395.3			
Very loose gray Silt, some fine sand.	392.8	4		
Medium gray very fine Sand, some silt seams	20	20		
		15		
	383.3	16		
	30	11		
	380.3			
Loose gray fine Sand, some silt.	35	4		
	375.3	6		
Medium gray fine Sand.	40	15		
	370.3	25		
Medium gray fine to coarse (continued)	45	35		
		20		

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(continued)	47	23		
Sand, some silt.	50	27		
	353.3	29		
Medium dense gray medium Sand, trace silt.	55	35		
		26		
	351.8			
Medium dense gray fine to coarse Sand, trace silt and small gravel.	60	22		
		16		
	65	25		
		53		
	70	31		
	340.3			
Dense gray fine Sand, trace silt	75	42		
	326.3	47		
Boring stopped by inspector.				

WATER LEVEL 35.0

BORING No. S-132

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	410.4 0			
Topsoil	409.4			
Very loose brown sandy Silt	407.4	2		
Loose brown fine Sand	5	8		
	402.4	6		
Gray silty clay	400.9	10	1.2e	30
Loose brown fine Sand; some silt.	396.9	7	.9e	28
Loose brown and gray fine Sand	15	9		
	386.4	3		
Very loose gray organic Silt, trace	20	3		
		6		
	25	7		
		11		
very fine Sand.	30	6		
	377.4	15		
Loose to dense gray very fine Sand, some silt and organic matter.	35	10		
		22		
	40	42		
	367.4	46		
Medium to (continued)	45	104		

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(continued) very dense gray fine Sand, trace silt.	47	52		
	50	90		
		32		
	55	27		
		55		
	351.9			
Medium to dense gray fine to medium Sand, trace gravel.	60	30		
		24		
	65	15		
		34		
	342.9			
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-1

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

SHEET 513 OF 526

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. – 70	82-3HVB-1	ST. CLAIR	207	192
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S–139

IDENTIFICATION	ELEV. DEPTH	N BLOWS T./F.	QU T./F.	W %
Ground Surface	417.3	0		
Shingle and Miscellaneous Fill	413.2	6		
Loose yellow and brown Silt, trace clay and very fine sand,	402.8	5	.3	24
		4	.3	24
		5	.8±	30
		16		
		4	.7	27
		5	1.1	24
Loose to medium gray fine to coarse Sand, trace small gravel and silt,	385.3	15		27
		24		
Very loose to stiff yellow mixed gray clayey Silt, trace fine Sand,	392.8	4	.3	22
		6		27
Medium brown very fine Sand, some silt.	391.3	17		
Medium gray fine Sand, trace silt.	378.3	14		
		32	18	
		19		
		11	12	
		9		
Loose gray very fine Silty Sand	375.3	40	6	
Medium dense gray (continued)		43	11	37
			16	

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS T./F.	QU T./F.	W %
	47	47		
very fine to coarse Sand, trace silt,	50	44		
		46		
	55	41		
		14		
Loose gray fine to coarse Sand, trace small gravel and silt,	368.3 60			34
				31
Dense gray fine Silt, trace organic matter,	343.3 65			40
Dense to very dense gray fine to coarse Sand, trace silt,	332.3	23		45
		77		44
		72		49
		54		
		44		
Boring stopped by Inspector.	332.0 85			41

WATER LEVEL 41

BORING No. S–140

IDENTIFICATION	ELEV. DEPTH	N BLOWS T./F.	QU T./F.	W %
Ground Surface	416.8			
Sand, rock, limestone fragments and miscellaneous Fill	403.8	5	12	
		5		
		10		
		3		
Brown very fine to coarse Sand,	402.8			
Soft gray clayey Silt,	400.8	15	1.1±	27
Loose brown Silt, trace clay	398.8	7		
Loose yellow and brown fine Sand, some silt	388.8	25	13	
Very loose brown silty very fine Sand	385.3	10	4	
Loose gray fine Sand, some silt,	381.3	35	8	
Loose dark gray silt, trace very fine sand	375.3	40	9	
Medium dense gray (continued)		45	17	

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS T./F.	QU T./F.	W %
	47	70		
to coarse Sand, trace silt,	50	72		
	63.8	38		
Dense gray fine to coarse Sand,	55	53		
		23		
	60	65		
		31		
small gravel and silt,	70	34		
		12		
Boring stopped by Inspector.	364.3	32		

WATER LEVEL 43.0

BORING No. S–141

IDENTIFICATION	ELEV. DEPTH	N BLOWS T./F.	QU T./F.	W %
Ground Surface	415.7	0		
Cinder, limestone, silt, sand & miscellaneous Fill	409.7	5	11	
		4		
Loose brown		8		
		7		
very fine Sand,		9		
		9		
silty fine Sand		10		
		9		
	392.7	9		
Dense yellow and brown fine Sand, some silty clay,	389.7	25	40	
Dense to medium brown fine to medium Sand, trace silt and organic matter,	382.7	30	14	
			21	
Medium dense brown and gray fine to coarse Sand, trace silt, some small to large gravel,	374.7	15	35	
		40		
Medium gray fine to coarse Sand, trace small gravel and silt,	369.7	45	28	
			20	

IDENTIFICATION	ELEV. DEPTH	N BLOWS T./F.	QU T./F.	W %
Medium yellow & brown fine to coarse Sand, trace silt & Org. mat.	47	—	17	
	367.2			
Medium to very dense gray fine to coarse Sand, trace silt, clay and small gravel	50		25	
			27	
	55		85	
	357.7		80	
Medium gray fine to coarse Sand, with small gravel and silt.	60		22	
	352.2		31	
Boring stopped by Inspector.				

WATER LEVEL 33.0

N – STANDARD PENETRATION TEST NUMBER – BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140# WT. FALLING 30"

QU – UNCONFINED COMPRESSIVE STRENGTH
W – WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE
B – BULGE
S – SHEAR
E – ESTIMATED VALUE

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

POPLAR STREET BRIDGE APPROACHES

BORING LOGS

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

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

SHEET 514 or 526

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.I. - 70	82-3HVB-1	ST. CLAIR	207	193
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-142

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	411.5 0			
Cinders, Sand, silt, and miscellaneous Fill	408.0	6		
Medium brown silty Clay, trace fine Sand	406.0	5	1.3	27
Loose yellow and brown very fine silty sand	401.5	9		
Medium brown fine Sand, trace silt	400.1	10	11	
Dense brown fine to medium Sand, trace silt,	398.5	31		
Medium loose gray and brown fine Sand, some silt, trace fine organic matter.	385.5	13	10	
Gray brown fine Sand and silt	383.5	30		
Medium to very dense gray fine Sand, trace silt	374.0	67	12	
Medium brown and gray very fine Sand, some silt.	371.5	15	21	
Loose to medium gray fine to coarse Sand, some small gravel, trace silt.	365.5	40	4	
		45	11	
		45	15	

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Dense gray fine to medium Sand, trace silt	363.5	47	37	
Dense gray fine to coarse Sand, trace silt, small gravel and organic matter noted.	358.0	50	45	
Very dense gray fine Sand, trace silt.	351.5	45		
		153		
Dense gray fine to coarse Sand, some small gravel, trace silt and clay.	345.5	60	31	
		65	31	
Red, yr. f. to med. Sand, tr. sml. grvl. & silt, blk. org. mat. note	340.0	25		
Boring stopped by Inspector.		70		

WATER LEVEL 31.0

BORING No. S-143

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	414.7 0			
Cinder, brick, silt and Fill	412.2	7		
Loo yellow and rown san Silt, tra. clay	409.7 5	8		
Brown silty Clay, trace fine Sand,	404.9 10	9	1.5	24
Loose to medium brown very fine Sand, trace silt,	396.2	18		
		21		
Loose brown fine Sand, trace silt, thin black organic matter seams	390.7	20	9	
		9		
Medium yellow and brown fine Sand, some silt.	382.7	25	12	
		30	10	
Medium to dense yellow & brown fine to medium Sand, trace fine to coarse Sand, some small gravel (continued)		35	23	
		35	76	
		42		
		40	41	
	372.8			
Medium gray fine to coarse Sand, trace small gravel (continued)		45	13	

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(continued) and silt,	367.2	47	6	
Medium gray fine to coarse Sand, Little small gravel, trace silt.		50	13	
		55	18	
	357.7			
Dense gray fine to medium Sand.		60	40	
		60	36	
		70	42	
	349.7	65	32	
Med. gr. fine to co. Sand, sm. sml. grvl., tr. silt, black organic mat. noted.	347.7			
Medium gray fine to coarse Sand, trace silt, black organic matter noted.		70	23	
	340.3			
Medium gray fine to medium Sand, trace silt, black organic matter noted.	335.2	75	21	
			18	
Dense gray fine to coarse Sand, trace small gravel and silt.	332.7	80	38	
			32	
Dense gray medium to coarse Sand, some small gravel, trace silt.	327.2	85	40	
Boring stopped by Inspector.			38	

WATER LEVEL 38.0

BORING No. S-144

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	413.3 0			
Cinders, sand, and miscellaneous Fill	410.3	7		
Very loose brown fine Sand, some silt.	404.8	5	4	
		10		
Very loose brown very fine Sand, some silt, and clay	399.8	10	4	24
		6		
Medium loose brown and gray fine Sand, some silt, trace clay	393.8	15	13	
		9		
Loose gray fine Sand, and silt, trace clay	391.8	20	5	
		8		
		25	6	
		2		
		30	2	37
Loose gray silty very fine Sand, and silt, trace clay	341.8	9		
		35	6	.5 34
		9		
		40	5	.5 34
	370.8	7	.5	30
Dense gray medium to coarse Sand, trace small gravel (continued)		45	16	
			26	
		50	16	
			30	

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(continued) silt.		53		
		42	31	
	357.3			
Medium dense gray fine Sand, trace silt,		60	33	
		60	12	
		47		
		65	80	
	347.3			
Medium gray medium Sand, trace silt, some small gravel.		70	40	
			27	
	339.3		22	
Dense gray coarse Sand, trace silt, and some gravel.		75	23	
		80	27	
		85	30	
	327.3		52	
Dense gray medium to coarse Sand, trace silt, some small gravel.		90	44	
	320.8		52	
			35	
Boring stopped by Inspector.			22	

WATER LEVEL 25.0

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-1

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

SHEET 515 OF 526

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-1	ST. CLAIR	207	194
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-145

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	416.6 0			
Cinders, Sand, and miscellaneous Fill	410.1 5	7		
Loose gray fine Sand	408.1 8			
Loose gray Silt, trace very fine Sand and Clay.	402.6 10	7	1.0	24
Medium gray Silt, trace very fine sand, org. matter noted	398.6 15	11		
Gray and brown clayey Silt, trace fine sand.	396.6 20	7	1.5	30
Loose brown silty very fine Sand	394.1 23	7		
Medium brown fine Sand, trace Silt.	391.8 25	12		
Medium brown fine Sand, trace silt and black organic matter.	381.6 35	27		
Medium gray fine to coarse Sand, trace silt.	376.6 40	13		
Loose gray and brown fine to coarse Sand, trace small gravel and silt.	371.6 45	15		
Medium (continued)		9		

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
	47	9		
gray medium to coarse Sand, trace small gravel.	364.1 50	4		
Medium gray fine to coarse Sand, trace small gravel and silt.	354.1 55	25		
Dense gray medium Sand, tr. small gravel & silt	351.6 60	29		
Medium gray fine to coarse Sand, trace silt, organic mat noted	349.1 65	27		
Medium grey fine to coarse Sand, trace small gravel and silt.	344.1 70	52		
Dense gray medium to coarse Sand, little small gravel, trace organic matter.	336.6 80	23		
	331.6 85	21		
Boring stopped by Inspector.		45		
WATER LEVEL 38.5		41		

BORING No. S-146

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	414.7 0			
Cinders, Sand, and miscellaneous Fill	411.2 3	24		
Loose to dense grey and brown fine to coarse Sand, trace silt.	376.2 38	9 10 12 15 17 20 21 35 71		
Medium brown medium to coarse Sand, trace (continued)		17 19 16		

IDENTIFICATION (cont'd)	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(cont'd) silt.	367.7 47	36		
Medium gray coarse Sand, organic matter noted	363.7 50	11		
Dense gray fine to coarse Sand, trace silt.	355.7 58	27 51 32		
Dense to very dense gray fine Sand	351.7 62	49 78		
Dense gray fine to medium Sand, trace silt.	344.7 70	72 39 46		
Boring stopped by Inspector.				
WATER LEVEL 42.0				

BORING No. S-147

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	413.6 0			
Topsoil	412.8			
Cinders, Miscellaneous (cont. trash) Fill	409.1 4	8		
Loose brown fine Sand, trace silt.	405.6 7	4		13
Loose brown very fine silty Sand.	402.1 10	9		24
Loose brown and gray sandy Silt.	397.6 15	9 7		24 32
Medium to dense brown fine to coarse Sand, trace silt.	367.6 46	13 7 11 16 10 20 33 29 28 23 73 65		
Dense (continued)				

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
	47	30		
grey medium to coarse Sand, trace silt.	357.1 55	26 32 34		
Dense gray fine Sand, trace silt.	353.6 60	30 43		
Boring stopped by Inspector.				
WATER LEVEL 37.0				

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-1

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

SHEET 516 of 526

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-I	ST. CLAIR	207	195
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-154

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	412.5 0			
Cinders, grit, sand, compact fill	411.7			
Soft brown sandy silt, some clay.	409.3	4		
Medium brown clay, some silt.	406.2	5	7	
Medium brown sandy silt, some clay.	403.5	7	2.0	27
Medium	10	14		
brown		24		
very	15	19		
fine		8		
Sand	20	10		
trace		11		
silt	27	16		
and		24		
clay.	30	29		
	379.5	29		
Dense gray fine Sand, trace silt.	35	46		
	374.5	14		
Medium				
gray	40	17		
fine		17		
to				
coarse (continued)	45	11		

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(continued)	47			
Sand,		24		
trace	53	28		
silt.		26		
	363.5			
Dense gray fine to medium Sand, little silt, trace clay.	353.0	50		19
Very gray fine to medium Sand, trace silt.	349.0	50		14
Medium	55	27		
gray				
coarse		20		
Sand,				
trace	70	26		
silt		14		
and	75	18		
small				
gravel		31		
	334.0			
Very dense gray fine to medium Sand, trace silt.	330.0	81		13
Boring stopped by Inspector.				
WATER LEVEL 24.5				

BORING No. S-155

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	411.6 0			
Cinders, bricks, concrete, and miscellaneous fill	409.2			
Medium brown clayey silt, trace very fine sand.	406.7	5	15 2.0	18 24
		11		
Medium	10	20		
brown		14		
fine	15	11		
to		11		
medium	20	9		
		11		
Sand,	25	19		
some		11		
silt.		13		
	379.2			
Dense brown medium Sand, trace silt.	375.2	35		33
Dense gray medium Sand, trace silt.	371.2	40		33
				36
				25
Medium gray fine to coarse Sand, (continued)	45	14		

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(continued)	47			
trace silt.	364.2	11		
Medium gray medium to coarse Sand, some small gravel trace silt	358.2	50		25
Medium				46
gray				
fine	60			24
to				23
coarse	65			20
Sand,				17
some	70			9
small gravel	339.7			11
Medium gray coarse Sand, some gravel.	337.4	75		22
Medium gray medium Sand.	334.2			22
Very dense gray medium sand, and some gravel with trace silt.	332.2	80		105
Dense				49
grey				
coarse	85			52
Sand,				
and				54
small				
gravel,	90			48
trace				44
silt.	318.3	95		25
Boring stopped by Inspector.				
WATER LEVEL 36.0				

BORING No. S-156

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	412.9 0			
Topsoil, cinders, and miscellaneous fill	409.4	6		
Medium brown clay, some silt, trace very fine sand.	404.4	5	8 2.0	21
		8		
Medium	10	20		
grey		26		
very	15	10		
fine		8		
Sand,	20	15		
		11		
some	25	13		
silt.	384.4	10		
Medium dense	30	13		
grey		64		
fine	35	25		
Sand,				
trace		44		
silt.				
	372.4	40		37
Medium fine to coarse Sand, trace silt, some small (continued)	45	13		

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(continued)	47			
gravel.	363.9	9		
Medium	50	20		
grey				
fine to		18		
course				
Sand,				
trace	55	18		
silt	356.9			
Medium gray coarse Sand, little silt.	356.4			27
Dense grey fine Sand, trace silt	351.9	60		38
Medium		26		
grey				
medium				
to	65	16		
coarse				
Sand,		29		
trace				
silt,	70	40		
some				
small		24		
gravel.	338.9			
Dense	75	54		
gray				
fine to				
medium		28		
Sand,				
trace silt.	328.9	80		60
Boring stopped by Inspector.				
WATER LEVEL 28.5				

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-I

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

SHEET
S17 or S26

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.- 70	82-3HVB-1	ST. CLAIR	207	196
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-157

IDENTIFICATION	ELEV. DEPTH	N BLOWS T S.F.	QU T S.F.	W %
Ground Surface	413.5 0			
Topsoil, Sand, and Cinder Fill	409.5	9		
Soft to medium gray and brown silt and very fine sand	404.5	3 6		
		4		
		12 14		
		12		
		43 7		
		50		
		4		
		20 14		
		35		
		45 25		
	387.5			
Loose gray silty very fine sand.	385.0	2		
Medium		30 32		
Dense		31		
Gray		35 24		
Fine to		27		
Medium		40 28		
Sand,		35		
little		45 49		
(continued)				

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS T S.F.	QU T S.F.	W %
	47			
silt.	365.0	50		
Medium gray fine sand and silt, some organic matter.	360.0	50 11		
Dense gray fine to coarse sand, trace silt, some small gravel.	357.5	55		
Very dense gray fine sand, some silt.	355.5	86		
Dense		60		
Gray				
Fine		50		
to				
Medium		65 39		
sand,		42		
trace				
silt.		70 37		
and				
small		39		
gravel.	338.5	75 60		
Boring stopped by Inspector.				
WATER LEVEL 35.0				

BORING No. S-158

IDENTIFICATION	ELEV. DEPTH	N BLOWS T S.F.	QU T S.F.	W %
Ground Surface	414.9 0			
Cinder		8		
and		5 10		
miscellaneous		5		
Fill	402.4	10 11		
Medium brown very fine Sand,		15 14		
		11		
trace		20 17		
		15		
silt.	390.9	25 21		
Medium dense brown fine Sand, trace silt.		35 23		
	378.9	35 52		
Medium brown fine to coarse Sand, trace small gravel and silt.	371.4	40 50		
Dense gray fine Sand.	371.4	31		
Medium (continued)		45 11		

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS T S.F.	QU T S.F.	W %
	47	38		
dense		50 28		
gray		30		
fine to		55 35		
coarse		31		
		60 29		
Sand,		23		
trace				
small		65 41		
gravel		25		
and		70 21		
silt.		36		
organic matter noted.	337.4	75 33		
Boring stopped by Inspector.				
WATER LEVEL 36.5				

BORING No. S-159

IDENTIFICATION	ELEV. DEPTH	N BLOWS T S.F.	QU T S.F.	W %
Ground Surface	418.7 0			
Cinders,		3		
Sand,		5 4		
and		7		
miscellaneous		10 4		
Fill		3		
	400.7	15 3		
Soft brown silty Clay trace very fine sand.	400.7	5 1.0	30	
Medium brown clay, trace silt and very fine sand.	397.7	20	10	
Medium brown clayey silt, trace very fine sand.	395.7	10 2.0	26	
Medium brown		45	16	
fine			12	
Sand, trace silt.		30	11	
	387.7			
Loose gray fine silty Sand.	385 / 342.7		10 8	
Dense gray fine to medium Sand, trace silt.	340 / 372.7		31 36	
Dense gray fine to coarse Sand, trace Clay, Silt, & some small gravel.	372.7	45	47 32	

IDENTIFICATION	ELEV. DEPTH	N BLOWS T S.F.	QU T S.F.	W %
	47	40		
Dense grey fine Sand, little silt	365.7	50 39		
		50		
Medium gray fine to coarse Sand, trace silt.	360.7	55 21		
		26		
Dense gray fine Sand, trace silt and organic matter noted.	357.7	60 49		
Very dense gray fine to coarse Sand, tr. small to medium gravel and silt.	354.7	57		
Very dense gray fine to medium Sand, trace silt and organic matter noted.	351.2	65 63		
		91		
Boring stopped by Inspector.				
WATER LEVEL 46.0				

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-1

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

SHEET 518 OF 526

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. – 70	82-3HVB-1	ST. CLAIR	207	197
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-160

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU	W %
Ground Surface	418.6	0		
Loose Cinders, topsoil, and miscellaneous fill	410.6	5	7	
Soft to medium brown silty clay, trace very fine sand	409.6	10	7	2.0 30
Medium brown silt and very fine sand	402.6	15	10	
Medium brown fine sand, trace silt	382.6	35	11	
Medium dense gray fine to coarse sand, trace small gravel and silt.	365.6	50	21	
Dense gray fine to coarse sand, some small gravel, trace silt.	355.6	60	28	
Medium dense gray fine to coarse sand, trace small gravel and silt.	343.6	75	27	
Dense gray fine to coarse sand, some small gravel, trace silt.	330.6	90	26	
Dense gray medium to coarse sand, trace small gravel (continued)				

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS T. S.F.	QU	W %
		47	21	
trace silt.	307.6	50	11	
Medium gray medium to coarse sand, trace silt and organic matter.	292.6	75	74	
Dense to medium gray fine to coarse sand, trace silt and small gravel.	272.6	80	38	
		85	23	
Dense gray medium to coarse sand, trace small gravel and silt.	252.6	90	26	
		95	67	
trace silt and small gravel	218.6	100	39	

Boring stopped by inspector.

WATER LEVEL 16.0'

BORING No. S-161

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU	W %
Ground Surface	407.8	0		
Medium yellow & brown fine sand, trace silt.	401.8	5	13	
Medium brown very fine sand, trace silt, organic matter noted.	399.8	19		
Medium brown fine sand, trace silt varied.	396.8	10	11	
Medium brown very fine sand, trace silt varied.	394.8	10		
Medium brown fine sand, trace silt, organic matter noted varied	389.8	15	11	
Medium gray and brown silty fine to medium sand.	386.8	20	29	
Medium gray fine sand, trace silt.	381.8	25	28	
Dense gray fine sand, trace silt and organic matter.	367.8	55	33	
Medium gray fine to coarse sand, trace small gravel and silt.	371.8	35	14	
Dense gray fine sand, trace silt and clay.	360.8	40	18	
Medium gray fine to coarse sand, trace small gravel (continued)		45	6	

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS T. S.F.	QU	W %
		47	12	
and silt	359.8			
Medium gray fine sand, trace silt.	356.8	50	17	
Decayed and sound wood	355.8			
Medium gray fine to coarse sand, some small to medium gravel, trace silt.	340.8	55	28	
		60	8	
Medium dense brown and gray fine to coarse sand, trace small gravel and silt.	339.8	65	30	
Dense brown & gray coarse sand, and small gravel, trace silt.	336.8	70	32	
Very dense brown and gray fine to coarse sand, some sal. to fine gravel, tr. silt	334.8	75	100	
Medium to very dense gray small to coarse gravel, and fine to coarse sand.	329.8	75	24	
Dense gray fine to medium gravel, some sand.	326.8	80	30	
Dense to very dense brown and gray fine to coarse sand, some small to medium gravel.	328.8as	85	42	
		90	50	

Boring stopped by inspector.

WATER LEVEL 29'

BORING No. S-162

IDENTIFICATION	ELEV. DEPTH	N BLOWS T. S.F.	QU	W %
Ground Surface	411.7	0		
Loose brown fine sand.	408.2	5	6	
Loose brown very fine sand, some silt.	400.2	10	9	
Medium brown fine sand, trace silt.	396.2	15	10	
Medium brown fine sand, trace silt.	391.2	20	11	
very fine sand, trace silt and clay.	380.2	30	14	
Very loose to medium gray fine sand, trace silt.	372.7	35	4	
		40	25	
Dense to medium gray fine to coarse sand, little silt, trace clay.	364.7	45	22	
Medium dense gray fine sand, trace silt.	360.7	50	47	
Dense gray fine sand, trace silt & sml. gravel.	347.7		24	
Very (continued)		55	53	

IDENTIFICATION dense (cont'd)	ELEV. DEPTH	N BLOWS T. S.F.	QU	W %
gray fine sand, trace silt.	347.7	60	61	
		65	60	
Loose dark gray Silt, trace clay and fine sand	335.7	70	4	
		75	6	
Dense to very dense brown and gray fine to coarse sand, trace small gravel	311.7	100	76	
		80	30	
		85	40	
		90	25	
		95	42	
		100	38	
trace silt.		95	59	
		100	54	
		105	60	

Boring stopped by inspector.

WATER LEVEL 32'

H – STANDARD PENETRATION TEST NUMBER – BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140 WT. FALLING 30"

QU – UNCONFINED COMPRESSIVE STRENGTH

W – WATER CONTENT % OVER DRY WEIGHT

TYPE FAILURE B – BULGE 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-1

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

SHEET 519 OF 526

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. – 70	82-3HVB-1	ST. CLAIR	207	198
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No.S-187

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	411.3 0			
Topsoil, cinders and miscellaneous Fill	410.3	9		
Very loose brown fine Sand, trace silt.	406.3	3		
Silty clay	404.8	4		
Loose brown fine Sand and Silt	400.3	6		37
Medium		15		
		6		
dense		9		
brown		20	8	
fine			20	
		25	17	37
to			20	
medium		30	16	
Silty			37	
Sand		35	44	
			40	
	373.8			
Medium gray medium to coarse Sand; trace silt, some small gravel.		40	23	
			15	
		45	19	
	367.3			

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Dense gray fine Sand	365.3	47	42	
Medium dense gray medium to coarse Sand, trace silt.	359.8	50	27	
			32	
Very dense gray fine Sand, some silt.	358.2	45	78	
Boring stopped by Inspector.				
WATER LEVEL 41.0				

BORING No.S-188

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground rface	411.50			
Topsc	410.8			
Ve. loose gray very fine Sand and Silt, trace clay: organic matter noted.	403.0	3		
		5	4 .7e	26
		6	1.0e	27
Soft brown Clay, some silt.	398.0	10	7 1.2	30
		6	.8	40
Medium gray and brown fine Sand, some silt and organic matter.	388.5	15	16	
		20	16	
			9	
Very loose gray fine Sand, some silt and organic matter.	385.0	25	4	
Medium			45	
dense		30	90	
gray			66	
fine		35	27	
Sand,			25	
trace				
silt		40	20	
and			48	
organic				
(continued)		45	31	

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(continued) matter.	362.5	47	48	
Dense gray fine to coarse Sand, trace silt and organic matter.	358.5	50	48	
			31	
Dense gray fine to medium Sand, trace silt and organic matter.	354.0	55	50	
Boring stopped by Inspector.		60		
WATER LEVEL 33.0				

BORING No.S-189

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Sur ace	411.2 0			
Cinders, and miscellaneous Fill	408.2	13		
Loose gray and brown fine Sand, some silt, trace clay.	405.2	5	5	
Loose gray & brown Silt and fine Sand; trace clay and organic matter.	393.2	8	1.2e	30
		10	6 1.1e	29
Medium gray & brown fine Sand; some silt, trace clay		15	23	33
			11	
			8	
	390.2	20	11	
Loose gray fine Sand, some silt & organic matter	388.2		6	
very loose to loose gray very fine silty Sand, some organic matter	380.2	5	4	
		10	3	
			8	
Medium gray very fine Sand, some silt and organic matter.	376.2		14	
Medium gray clayey Silt and very fine Sand	375.2	35	10 0.5	30
Very soft gray Silt and very fine Sand	370.7	40	1/18" 5	
Medium dense gray fine Sand, some silt.	365.2	45	26 38	

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Dense gray fine to medium Sand, some silt.	360.2	47	38	
		50	45	
Dense gray medium to coarse Sand, trace silt.	350.2	55	46	
			54	
		60	54	
			51	
Medium dense gray medium to coarse Sand, some silt, trace clay	338.7	65	22	
			50	
			43	
		70	24	
Boring stopped by Inspector.			21	
			75	
WATER LEVEL 33.0				

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-1

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

SHEET 520 or 526

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-1	ST. CLAIR	207	199
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No.S-190

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	410.8 0			
Topsoil	410.0			
Loose cinders and miscellaneous Fill	406.3	8		
Medium brown clay and Silt, some very fine Sand.	401.8	5 6 9	1.0 1.1	27 30
Medium yellow and brown very fine Sand and Silt	392.3	10 15 11 10		21
Medium loose gray fine Sand, and Silt; some organic matter and tr clay.	379.8	20 10 4 25 6 5 30 11		
Medium gray medium Sand and Silt, some organic matter.	377.3	30		
Medium dense grey coarse Sand; some silt and organic matter.	369.8	35 41 40 55		
Dense grey fine to		30 45		39
(continued)		47		36
medium Sand; some silt and organic matter	334.8	50 55		45 28
Dense gray fine to medium Sand; trace silt.	369.8	60		35
Medium gray fine Sand, and Silt; 1/2" layer wood	367.3	15		14
Dense grey fine to coarse Sand; trace silt and small gravel.	331.8	65 75		25 41 31 35 43
Dense to very dense gray fine to coarse Sand; some silt and small gravel, trace rock frag. ents	329.8	80		91
Dense gray fine to coarse Sand; trace silt and small (continued)	315.8	85 90		32 39 33 41 28
gravel.		95		41
Boring stopped by Inspector.				

WATER LEVEL 34.5

BORING No.S-191

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	410.7 0			
Sand, topsoil, silt and miscellaneous Fill	405.7 5	8 9		
Loose brown Silt, trace clay and very fine Sand.	402.7	9		
Loose gray clayey Silt; trace fine sand, organic matter noted.	391.2	10 15 7	6 1.5 5 2.0 7 1.5	27 21 30
Dense gray fine to medium Sand; trace small gravel and silt.	352.2	20 65 25 58 30 43 35 20	11	30
Med. gray f to co. Sand, little sml. gvl fr.silt & blk org. mat.	350.7	60		28
Boring stopped by Inspector.				
Dense gray fine to medium Sand; trace small gravel and silt.	371.2	47 50 55 60		24 31 61 56
Medium wet gray very fine Sand; trace silt & organic matter	368.7	40		25
Medium dense grey fine Sand, trace silt.	365.2	45		26 34
Decayed wood.	364.2			

WATER LEVEL 41.0

BORING No.S-192

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	412.8 0			
Topsoil & cinder Fill	411.3			
Medium brown silty Clay, trace very fine sand.	402.9	9		
Medium brown clay and silt	396.8	5 9		
Very loose to medium brown clayey Silt and very fine Sand.	394.3	4 4 7 9 12		
Medium dense gray fine to coarse Sand; some silt and organic matter.	376.8	20 30 25 33 10 21 35 32		
Medium gray fine Sand, some silt and organic matter.	373.8	40		18
Medium dense gray fine Sand, trace silt.		45		26 34 49
(continued)		47		28
Dense gray fine to coarse Sand, trace silt and gravel.	362.8	50		33
Boring stopped by Inspector.				

WATER LEVEL 32.0

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-1

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

SHEET 521 OF 526

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. – 70	82-3HVB-I	ST. CLAIR	207	200
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No.S-193

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	411.6 0			
Loose gray Silt, trace fine sand.	408.6	9		24
Loose yellow and brown Silt, little very fine Sand, trace clay.	403.1	5		7
Loose dark gray silt, trace fine sand.	400.6	4		6
Loose gray very fine Sand & Silt	398.1	9		9
Loose gray very fine Sand & Silt	395.6	15		6
Very loose gray Silt, trace clay & fine sand.	393.6	3		
Medium brown fine Sand; trace silt and organic matter noted.	388.6	20		19
Dense gray fine Sand	383.6	22		45
Medium gray fine Sand; trace silt, thin organic matter.	381.1	30		20
Very dense gray fine Sand, trace silt.	374.6			73
Medium gray fine Sand, trace silt and black organic matter.	371.6	35		21
Medium dense gray fine Sand, trace silt.	370.6	40		24 37
Medium gray fine to course Sand; trace small gravel and silt, organic matter noted.	366.1	45		20 23
Medium				

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(continued)	47	23		
dense brown and gray fine to course Sand; little small gravel, trace silt.	50	30		
Gray very dense fine Sand, trace silt.	360.6 / 359.1			71
Boring stopped by inspector.				
WATER LEVEL 21.5				

BORING No.S-194

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	412.8 0			
Dirt, Sand and miscellaneous Fill	410.3	6		
Medium brown silty Clay, trace fine sand	403.8	5 / 11	1.0 / 2.0	21 30
Medium loose gray and brown fine Sand, some silt.	393.3	13		
Medium brown fine Sand	391.3	20		
Medium dense gray fine Sand, some silt.	379.8	25 / 30		20 39
Medium gray fine to medium Sand, trace silt.	377.3	35		20
Dense to very dense gray fine to medium Sand, little silt.	372.8	40		48 75
Dense gray fine to		45		44 52

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(continued)	47	59		
medium Sand, little silt.	50 / 357.8	41 49		32
Boring stopped by inspector.				
WATER LEVEL 24.5				

BORING No.S-195

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	411.6 0			
Cinders, brick and miscellaneous Fill	408.6	4		
Loose brown silty fine Sand	405.6	5	1.5	24
Medium yellow and brown clay and silt; some very fine Sand	400.1	9 / 13	1.4 / 1.6	24 24
Loose brown & gray silty very fine Sand, some clay.	398.1	6		30
Medium brown very fine Sand, some silt.	388.6	15 / 20		23 15
Very loose gray silty Sand, some organic matter.	372.6	2 / 3 / 3 / 3	.75 / 0.5	34 30
Dense gray fine to		40 / 45		35 50

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
(continued)	47	23		
medium Sand, some silt	50 / 344.1	50 32		
Very dense to dense gray fine to coarse Sand; some silt, trace small gravel.	347.1	52 / 65		22 / 31
Boring stopped by inspector.				
WATER LEVEL 14.5				

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-I

H. W. LOCHNER, INC.
ENGINEERS
CHICAGO ILLINOIS

SHEET 522 OF 586

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. – 70	82-3HVB-1	ST. CLAIR	207	201
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No.S-196

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	412.6 0			
Top soil	411.8			
Cinders,		9		
and				
miscelluneous	5	3		
Fill	405.6			
Soft to medium gray and brown silty clay, some very fine Sand	399.1 10	6	1.0	32
	8	9	1.5e	29
		8	1.2	30
Medium gray & brown fine Sand; some silt and organic matter.	388.3 25	15 12 11 20 15 15 24		
Medium gray fine Sand; some silt,	375	13 20 58 28 19 24 18 27		
(continued)				

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
matter.		32		
	362.1 50	21		
Medium dense gray medium to coarse Sand; trace silt and organic matter.	55	21 67 53 41 38 21 19		
	144.6			
Medium gray fine Sand; some silt.	70	29 29 35		
	335.1			
Boring stopped by Inspector.	80			

WATER LEVEL 35.0

BORING No.S-197

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	404.1 0			
Medium gray Clay; Little fine Sand	401.1	11		
Medium brown very fine silty Sand	396.1	16		
Medium brown silty very fine Sand, trace clay	393.6 10	16		
Loose brown very fine Sand, trace silt	391.1	9		
Dense to medium brown fine Sand, trace silt	383.1 20	31 56 40		
Dense gray fine to coarse Sand; trace small gravel and silt, organic matter noted.	373.6 10	16 25 26 37		
Dense gray fine to medium Sand, trace silt	371.1	30		
Very dense to dense gray fine Sand, trace silt.	366.1 35	74 41		
Very dense to medium gray fine to coarse Sand	360.6 40	53 29		
Medium gray fine Sand, (continued)	45	26		

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
	47	18		
trace silt.	355.1 50	11		
Medium gray fine to coarse Sand, trace small gravel.	348.1 55	18 25		
Very dense to medium gray fine to coarse Sand; trace silt, organic matter noted.	60	54 71 31 18		
	332.1			
Med. gray Clayey Silt & fine to coarse Sand, trace small gravel.	330.6	22		
Dense gray and brown fine to coarse Sand, trace silt and small gravel.	75 324.1 80	42 33 24		
Medium gray coarse Sand, some small gravel	321.6	23		
Boring stopped by Inspector.	85			

WATER LEVEL 33.0

BORING No.S-198

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground Surface	403.8 0			
Top soil	402.8			
Medium brown silty clay	400.8	12		
Medium yellow and brown very fine Sand, some silt.	387.8 5 10 15	13 11 15 13 14		
Medium yellow and grey fine to medium Sand, trace silt.	372.8 20	30 21 23		
Medium yellow and grey medium sand, trace silt.	375.3	14 17		
Dense grey	372.8 35	12 31		
fine Sand,	40	19 37 32		
trace	45	31		
(continued)				

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
	47	18		
silt.	50	8		
	352.8			
Medium gray fine to medium Sand, trace silt, organic matter noted.	55 147.8	21 17		
Dense gray course gravel,	346.3	45		
Dense gray fine Sand, trace silt	60	86 31 24 58 89		
	332.8			
Dense to medium gray medium to coarse Sand, trace silt some small gravel	75 326.3	43 35 25		
Boring stopped by Inspector.	80			

WATER LEVEL 31.6

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-1

H. W. LOCHNER, INC
ENGINEERS
CHICAGO, ILLINOIS

SHEET 523 OF 526

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.I.– 70	82-3HVB-1	ST. CLAIR	207	202
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No.S-229

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground surface	409.2	0		
Medium brown clayey silt, trace fine sand	401.7	3	1.0	27
Loose yellow and brown silt, little fine sand (varved)	398.2	5		7
Medium yellow and brown very fine sand, some silt, (varved)	396.7	11		
Loose yellow & brown silt, trace clay, some very fine sand, (varved)	394.2	10		9
Loose to medium yellow and brown very fine sand, some silt, trace clay, organic matter noted, varved	385.9	20		8
Medium gray dense very fine sand, little silt (continued)		20		18
organic matter noted.	380.7	45		35
Medium gray fine sand, trace silt.	378.1	45		17
Dense gray fine to medium sand, trace small gravel	374.7	30		47
Medium gray fine sand, little silt.	373.1	30		20
Medium gray fine to coarse sand, trace small gravel & silt	369.2	35		27
Medium gray coarse sand, little small gravel, trace silt.	365.7	40		18
Loose gray medium to coarse sand, trace small gravel and silt.		45		11

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Dense gray very fine Sand, trace silt.	358.1	47		48
	355.7	50		21
Medium dense gray fine to coarse Sand, little small to medium gravel, trace silt.	347.7	55		29
				34
Medium dense gray fine to coarse Sand, trace small gravel and silt.	341.2	60		22
				31
Medium gray fine to coarse Sand, organic matter noted.	335.2	65		36
				29
Dense gray fine to coarse sand, with lime stone fragments	333.7	70		42
Medium gray medium Sand, some small to large gravel, trace silt.	327.7	75		69
Boring stopped by Inspector.		80		25
				27

WATER LEVEL 31.2

BORING No.S-230

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground surface	405.7	0		
Loose yellow and brown very fine Sand, some silt (varved)	402.2	9		
Medium yellow and brown very fine silty Sand, varved	397.7	5		10
		15		
Medium yellow and brown very fine Sand, and Silt, varved.	392.2	12		
		11		
Medium yellow & brown fine silty Sand.	389.7	15		15
Medium gray very fine silty Sand, organic matter noted, varved.	387.7	10		
Medium gray fine Sand, trace silt.	381.7	20		21
		12		
Dense gray fine Sand, trace silt.	370.2	25		41
		35		46
		30		51
Medium gray fine Sand, trace silt.	372.7			23
Medium gray fine Sand.	370.2	35		29
Medium gray very fine Sand, little silt.	367.7			17
Medium dense gray fine to coarse Sand, trace small gravel and silt, organic matter noted.	359.7	40		21
		45		31
				18

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Dense gray fine Sand, trace silt.	347.9	47		36
Dense gray fine to medium Sand; trace small gravel and silt, organic matter noted.	343.9	50		32
				25
Dense gray fine to coarse Sand, trace small gravel and silt.	340.9	55		32
Boring stopped by Inspector				

WATER LEVEL 30.5

BORING No.S-231

IDENTIFICATION	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
Ground surface	406.8	0		
Top soil	406.1			
Medium yellow and brown clay and silt, trace very fine Sand	403.8	10		
Medium yellow and brown very fine Sand, little silt.	395.3	5		12
		10		14
Medium yellow and gray very fine Sand, trace silt.	387.8	12		11
		20		26
Medium dense gray fine Sand, some silt	370.8	25		16
		35		39
		40		26
Medium gray fine to coarse Sand, some silt.	361.3	45		25
Dense gray medium to coarse Sand, trace silt, (continued)		45		53

IDENTIFICATION (continued)	ELEV. DEPTH	N BLOWS	QU T.S.F.	W %
some small gravel	358.3	47		45
Medium gray coarse Sand, little silt, some small gravel.	354.3	50		33
Boring stopped by Inspector		55		28

WATER LEVEL 34.2

N – STANDARD PENETRATION TEST NUMBER – BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 17" 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-1

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

SHEET 524 OF 526

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. – 70	82-3HVB-I	ST. CLAIR	207	203
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

BORING No. S-232

IDENTIFICATION	ELEV. DEPTH	N BLOWS T/L.F.	QU	W %
Ground Surface	405.9 0			
Top soil	405.2			
Medium brown clay & silt, trace very fine sand	402.9	9		
Medium loose brown very fine Sand, some silt	5	12		
	10	12		
	15	5		
		8		
		9		
varved.	389.9			
Very loose gray very fine sand and silt, organic matter noted.	386.9	4	0.5	34
Medium dense gray fine Sand, little silt,	20	14		
		14		
	45	37		
		51		
	376.9			
Medium gray fine Sand, little silt,	30	30		
		41		
	35	14		
		17		
	367.4			
Medium gray fine to coarse Sand, little silt, tr. organic matter	40	17		
	364.9			
Medium dense gray fine to coarse Sand, little (continued)	45	30		
		18		

IDENTIFICATION	ELEV. DEPTH	N BLOWS T/L.F.	QU	W %
(continued)	47	38		
silt.	357.4			
Very dense gray fine to coarse Sand, trace silt and small gravel.	50	110		
	353.4	65		
Boring stopped by Inspector.				
WATER LEVEL 29.5				

BORING No. S-237

IDENTIFICATION	ELEV. DEPTH	N BLOWS T/L.F.	QU	W %
Ground Surface	401.6 0			
Medium brown Clay, trace fine sand.	400.1	14		
Medium yellow and brown very fine Sand, little silt, varved.	5	13		
		20		
	394.6			
Medium yellow & brown very fine Sand, little silt,	10	23		
		19		
	15	17		
		14		
	20	15		
silt.	382.6			
Med. brown silty clay, tr. fine sand.	381.6			
Med. yellow & brown fine Sand, little silt, trace clay.	379.6	19		
Medium yellow & brown fine Sand, some silt.	25	19		
	376.6	11		
Dense yellow & brown fine to coarse Sand, trace silt.	30	42		
	372.6			
Dense grey fine Sand, trace silt.	35	38		
	40	31		
		37		
		35		
		35		
	359.6			
Medium Dense gray (continued)	45	19		

IDENTIFICATION	ELEV. DEPTH	N BLOWS T/L.F.	QU	W %
(continued)	47	25		
fine to coarse Sand, trace small gravel and silt.	50	19		
		30		
	55	30		
	347.6			
Dense to very dense gray fine to medium Sand, trace silt, organic matter noted		38		
	343.6	60		62
Boring stopped by Inspector.				
WATER LEVEL 31.0				

N – STANDARD PENETRATION TEST NUMBER – BLOWS TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140# WT. FALLING 30"

QU – UNCONFINED COMPRESSIVE STRENGTH
W – WATER CONTENT % OVEN DRY WEIGHT

TYPE FAILURE
B – BULGE
S – SHEAR
E – ESTIMATED PLANE

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

POPLAR STREET BRIDGE APPROACHES

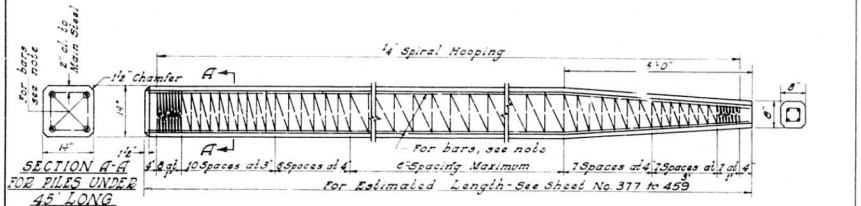
BORING LOGS

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

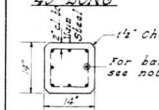
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 525 OF 526

FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVB-I	ST. CLAIR	207	204
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



SECTION A-A FOR PILES UNDER 45' LONG

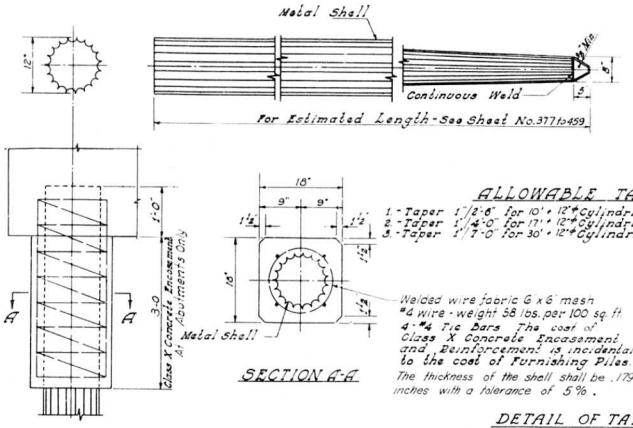


SECTION A-A FOR PILES 45' OR MORE

NOTE:- For 14"x14" Piles 45' long or more use 6-#9 bars - 4 for the full length and 4 to the point of bend). For 14"x14" Piles under 45'-0" long use 4-#9 bars the full length.

HANDLING:- For Pile lengths up to 45 Ft. use 1 slings placed at a distance of 0.21 L* from each end. For Piles longer than 45 Ft., use three slings spaced 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



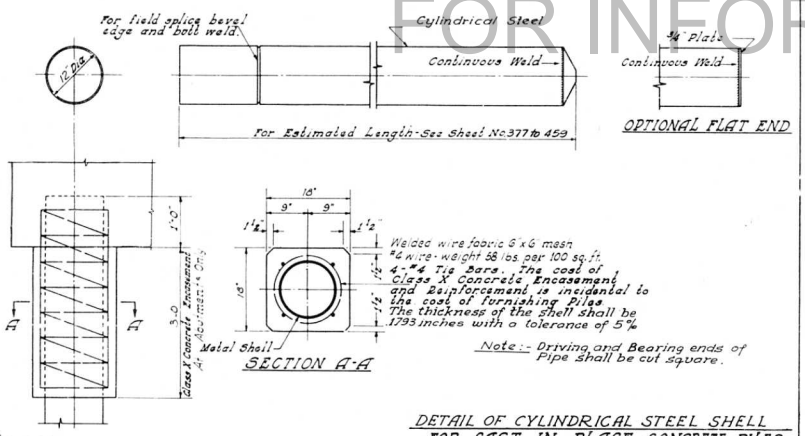
SPLICE TO BE USED AS REQUIRED

SECTION A-A

ALLOWABLE TAPERS

1.-Taper 1"/2'-6" for 10" x 12" Cylindrical Section Extension
2.-Taper 1"/4'-0" for 12" x 12" Cylindrical Section Extension
3.-Taper 1"/7'-0" for 30" x 12" Cylindrical Section Extension

DETAIL OF TAPERED METAL SHELL FOR CAST IN PLACE CONC. PILES



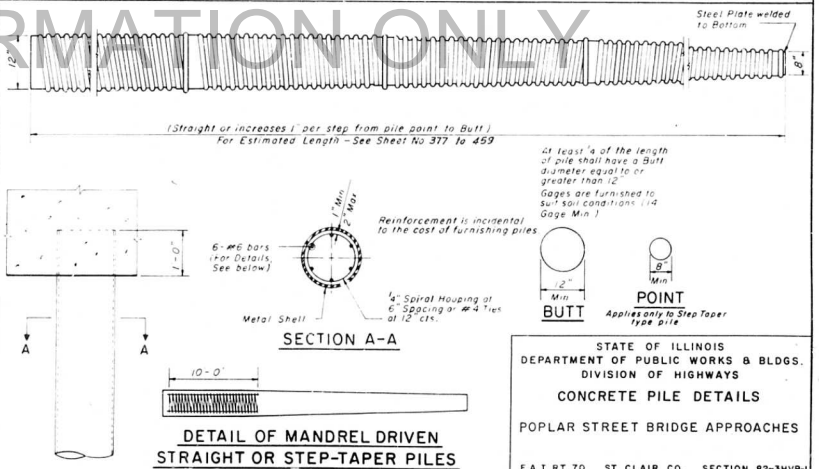
SECTION A-A

Note:- Driving and Bearing ends of Pipe shall be cut Square.

¼" Plate
Continuous Weld

OPTIONAL FLAT END

DETAIL OF CYLINDRICAL STEEL SHELL FOR CAST IN PLACE CONCRETE PILES



SECTION A-A

DETAIL OF MANDREL DRIVEN STRAIGHT OR STEP-TAPER PILES FOR CAST IN PLACE CONCRETE PILES

DESIGNED BY
DRAWN BY
CHECKED BY
APPROVED BY

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-I

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

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