

1-20-2012 LETTING ITEM 155

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/70	82-1DM	ST. CLAIR	35	1

D-98-058-08

FOR INDEX OF SHEETS AND STANDARDS SEE SHEET NO. 2

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
**PROPOSED  
 HIGHWAY PLANS**

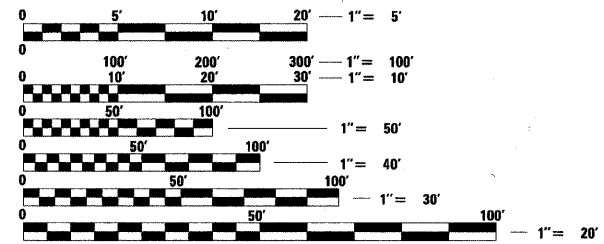
F.A.I. 55/70  
 SECTION 82-1DM  
 DEMO 0.1 MILE WEST OF EXCHANGE AVE  
 ST. CLAIR COUNTY  
 C-98-023-12



*Danny B. Manojlovski* 12/7/11  
 DANNY B. MANOJLOVSKI DATE  
 REGISTERED PROFESSIONAL ENGINEER LICENSE EXPIRES 11/30/2013  
 SHEET RANGE 1-35

*Oranit Pimsarn* 12-07-11  
 ORANIT PIMSARN DATE  
 REGISTERED PROFESSIONAL ENGINEER LICENSE EXPIRES 11/30/2013  
 SHEET RANGE 1-35

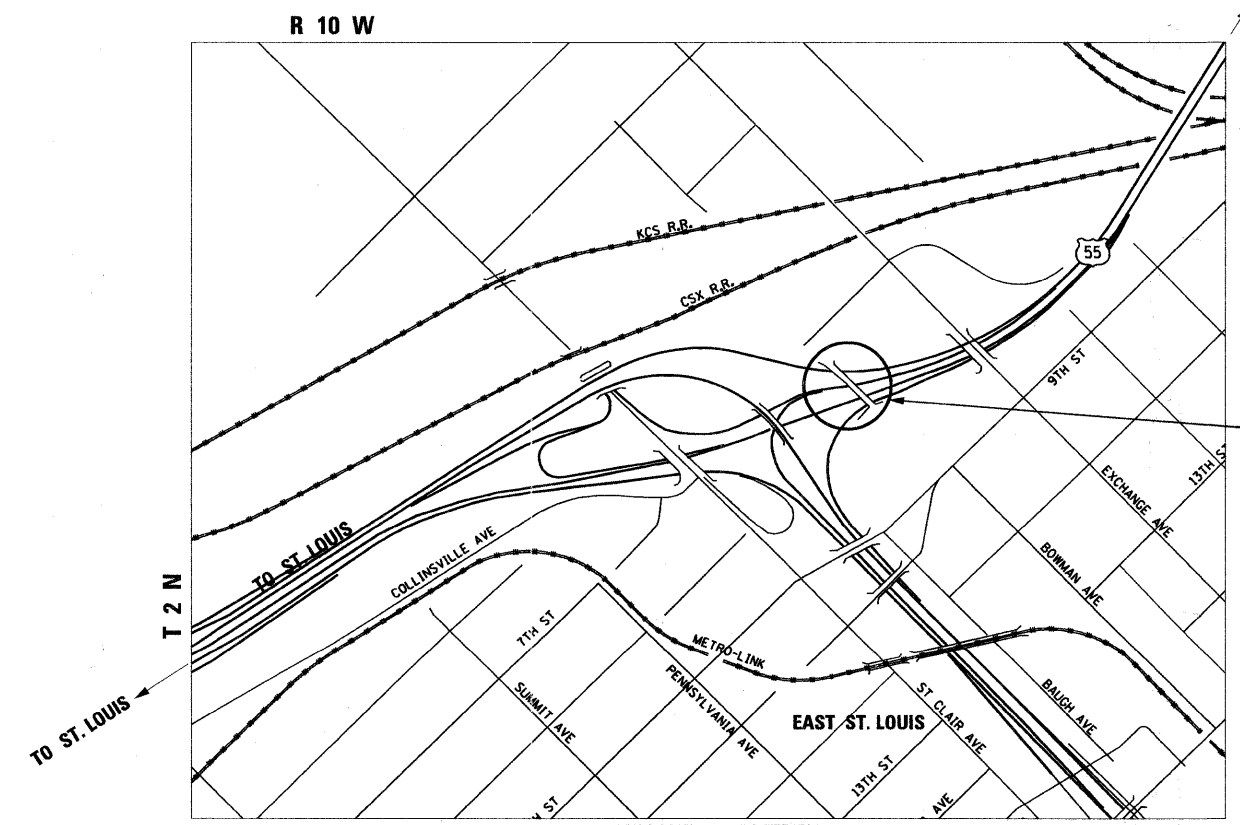
MICROFILMED \_\_\_\_\_  
 REEL NUMBER \_\_\_\_\_  
 AWARDED \_\_\_\_\_  
 RESIDENT ENGINEER \_\_\_\_\_  
 AS BUILT CHANGES WERE MADE  
 ON THE FOLLOWING SHEETS \_\_\_\_\_



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

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

PROJECT ENGINEER MIKE PRITCHETT  
 SQUAD LEADER CHAD SANDERS  
 CONTRACT NO. 76F29



TOWNSHIP: CANTEEN  
 LOCATION MAP  
 EXISTING STRUCTURES NO. 1  
 (X: 2456342.1490, Y: 14042029.5007)  
 (X: 2456398.4560, Y: 14041975.6538)  
 (X: 2456459.9745, Y: 14041912.3760)



JOINT UTILITY LOCATION  
 INFORMATION FOR EXCAVATIONS  
 PHONE: (800) 892-0123

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 SUBMITTED *Dec 2nd* 20 *11*  
*James [Signature]*  
 DEPUTY DIRECTOR OF HIGHWAY, REGION ENGINEER  
*December 9 20 11*  
*Scott E. Stitt P.E.*  
 acting ENGINEER OF DESIGN AND ENVIRONMENT  
*December 9 20 11*  
*William R. Fienler*  
 interim DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY  
 OF THE STATE OF ILLINOIS

**AECOM**

PLOT DATE: \*DATE-TIME\*

\*DON-SPEC\*  
 \*DATE-TIME\*  
 \*REF\*  
 \*REF\*  
 \*REF\*

**INDEX OF SHEETS**

- 1 COVER SHEET
- 2 INDEX OF SHEETS, HIGHWAY STANDARD AND GENERAL NOTES
- 3 SUMMARY AND SCHEDULE OF QUANTITIES
- 4 STRUCTURAL REMOVAL PLAN - L&N RR BRIDGE PIERS
- 5 SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL - GENERAL NOTES
- 6-8 SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLAN - L&N RR BRIDGE PIER DEMOLITION
- 9 UTILITY LOCATION PLAN
- 10-35 EXISTING BRIDGE PLAN - L&N RR BRIDGE

**HIGHWAY STANDARDS**

STANDARD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AN OF A FOOT
280001-06	TEMPORARY EROSION CONTROL SYSTEMS
701400-05	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701402-09	LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH BARRIER
701456-02	PARTIAL EXIT RAMP CLOSURE FREEWAY/EXPRESSWAY
701901-02	TRAFFIC CONTROL DEVICES
704001-07	TEMPORARY CONCRETE BARRIER

**GENERAL NOTES**

1. ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE TO BE GIVEN TO UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E., OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS :
  - AMEREN CIPS (ELECTRIC)
  - AMEREN IP (GAS)
  - AT&T ILLINOIS (COMMUNICATIONS)
  - CITY OF EAST ST. LOUIS (SAN. SEWER)
  - ILLINOIS AMERICAN WATER CO. (WATER)
  - METRO (COMMUNICATIONS)
  - PAETEC (COMMUNICATIONS)
  - QWEST SOLUTIONS CENTER (COMMUNICATIONS)

MEMBERS OF J.U.L.I.E. (800) 892-0123 ARE INDICATED BY \* .  
NON-J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.
2. ALL AREAS DISTURBED FOR ANY REASON SHALL BE PERMANENTLY SEEDED AS DIRECTED BY THE ENGINEER. ALL AREAS DISTURBED BY CONTRACTOR OUTSIDE THE PROPOSED LIMITS SHALL BE SEEDED AT THE CONTRACTOR'S EXPENSE.
3. HIGH EARLY STRENGTH CONCRETE MIX SHALL BE USED FOR ALL PCC PATCHING AND NO ADDITIONAL PAYMENT WILL BE CONSIDERED.
4. THE IDOT HIGHWAY STANDARDS LATEST REVISION NUMBERS SHALL APPLY TO THIS PROJECT.
5. CONFLICTS MAY OCCUR BETWEEN THE ROADWAY PLANS AND RIGHT-OF-WAY PLANS. THE RIGHT-OF-WAY PLANS SHALL TAKE PRECEDENCE IN CONFLICTS IN RIGHT-OF-WAY OR EASEMENTS. THE ROADWAY PLANS SHALL TAKE PRECEDENCE IN ITEMS FOR CONSTRUCTION.
6. EXCEPT WHERE DESIGNATED OTHERWISE, THE LOCATIONS AND/OR DEPTHS OF UNDERGROUND UTILITIES SHOWN HAVE BEEN TAKEN FROM OFFICE RECORD INFORMATION FURNISHED BY THE UTILITY OWNERS AND THE SUE SURVEYS. ALL UNDERGROUND UTILITIES MUST BE CONSIDERED APPROXIMATE.
7. PROTECTIVE COAT SHALL BE APPLIED TO ALL CONCRETE SURFACES. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
8. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON PUBLIC PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
9. THE DEPARTMENT STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB-CONTRACTORS TO HIRE MINORITY, WOMEN AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION-RELATED SKILLS, E.G., MATH FOR THE TRADES, JOB READINESS, TECHNICAL SKILLS COURSEWORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE, ETC.) AND OSHA 10 HOUR CERTIFICATION, TO PREPARE THEM FOR A CAREER IN THE HIGHWAY CONSTRUCTION TRADES. GRADUATES ARE WELL-TRAINED AND READY TO BECOME PRODUCTIVE ENTRY-LEVEL CONSTRUCTION WORKERS. CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 618/874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.

FILE NAME = DBTRI-76F29-sh-t-gennote.dgn	USER NAME = pmsar-no	DESIGNED OP DRAWN OP	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INDEX OF SHEETS, HIGHWAY STANDARD AND GENERAL NOTES</b>	F.A.I. RTE. 55/70	SECTION 82-IDM	COUNTY ST. CLAIR	TOTAL SHEETS 35	SHEET NO. 2	
PLOT SCALE = 1:8000 / 1" = 80'	CHECKED DBM	REVISED -	SCALE: NONE			SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 76F29
PLOT DATE = 12/7/2011	DATE 11-23-11	REVISED -									

**SUMMARY OF QUANTITIES**

100% STATE  
0044

SI	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
	25000210	SEEDING, CLASS 2A	ACRE	0.25
	25100115	MULCH, METHOD 2	ACRE	0.25
	28000400	PERIMETER EROSION BARRIER	FOOT	28
	42001200	PAVEMENT FABRIC	SQ YD	28
	44004250	PAVED SHOULDER REMOVAL	SQ YD	28
	44201025	CLASS B PATCHES, TYPE IV, 14 INCH	SQ YD	28
	44213200	SAW CUTS	FOOT	46
	44213204	TIE BARS 3/4"	EACH	14
	50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1
	67100100	MOBILIZATION	L SUM	1
	70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	3,614
	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	603
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	387.5
	78300100	PAVEMENT MARKING REMOVAL	SQ FT	603
	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
	Z0030260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1

**SCHEDULES**

EROSION CONTROL SCHEDULE			
	SEEDING, CLASS 2A	MULCH, METHOD 2	PERIMETER EROSION BARRIER
SHEET	ACRE	ACRE	FOOT
MOT-1	0.25	0.25	28
MOT-2	-	-	-
MOT-3	-	-	-
<b>TOTALS</b>	<b>0.25</b>	<b>0.25</b>	<b>28</b>

TRAFFIC CONTROL, REMOVAL, AND PAVEMENT SCHEDULE						
	TEMPORARY PAVEMENT MARKING - LINE 4"	TEMPORARY CONCRETE BARRIER	WORKZONE PAVEMENT MARKING REMOVAL	PAVEMENT MARKING REMOVAL	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	PAVED SHOULDER REMOVAL
SHEET	FOOT	FOOT	SQ FT	SQ FT	EACH	SQ YD
MOT-1	3,614	387.5	603	603	1	28
MOT-2	-	-	-	-	-	-
MOT-3	-	-	-	-	-	-
<b>TOTALS</b>	<b>3,614</b>	<b>387.5</b>	<b>603</b>	<b>603</b>	<b>1</b>	<b>28</b>

PATCHING SCHEDULE				
	CLASS B PATCHES, TYPE IV, 14 INCH	PAVEMENT FABRIC	TIE BARS 3/4"	SAW CUTS
SHEET	SQ YD	SQ YD	EACH	FOOT
MOT-1	28	28	14	46
MOT-2	-	-	-	-
MOT-3	-	-	-	-
<b>TOTALS</b>	<b>28</b>	<b>28</b>	<b>14</b>	<b>46</b>

**NOTE:**  
1. QUANTITY INCLUDED FOR STRIPING AFTER PIER DEMOLITION.  
STRIPING CONFIGURATION SHALL MATCH EXISTING STRIPING.

FILE NAME = DBTRI-76F29-sh.t-500-01.dgn

USER NAME = pmserno  
PLOT SCALE = 2.0000' / 1" IN.  
PLOT DATE = 12/6/2011

DESIGNED OP  
DRAWN OP  
CHECKED DBM  
DATE 11-23-11

REVISED -  
REVISED -  
REVISED -  
REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY AND SCHEDULE OF QUANTITIES**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE. 55/70	SECTION 82-IDM	COUNTY ST. CLAIR	TOTAL SHEETS 35	SHEET NO. 3
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76F29	

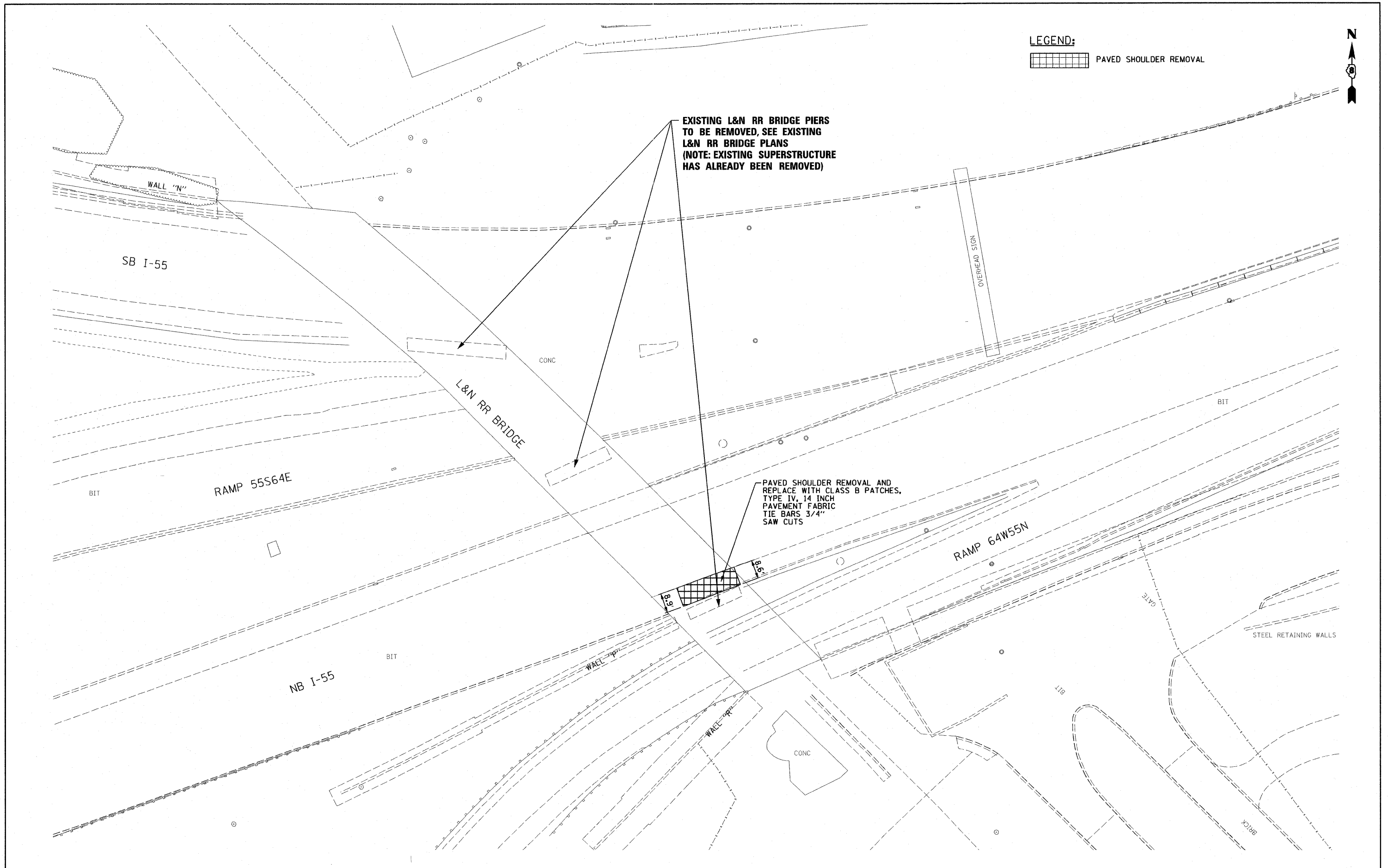
**LEGEND:**

 PAVED SHOULDER REMOVAL



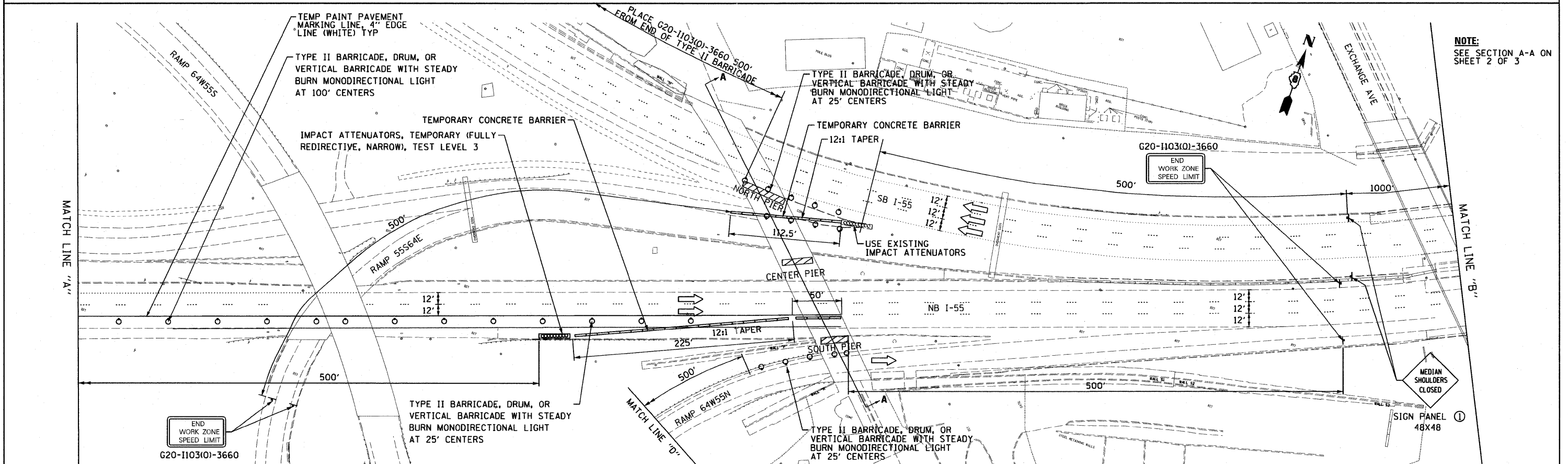
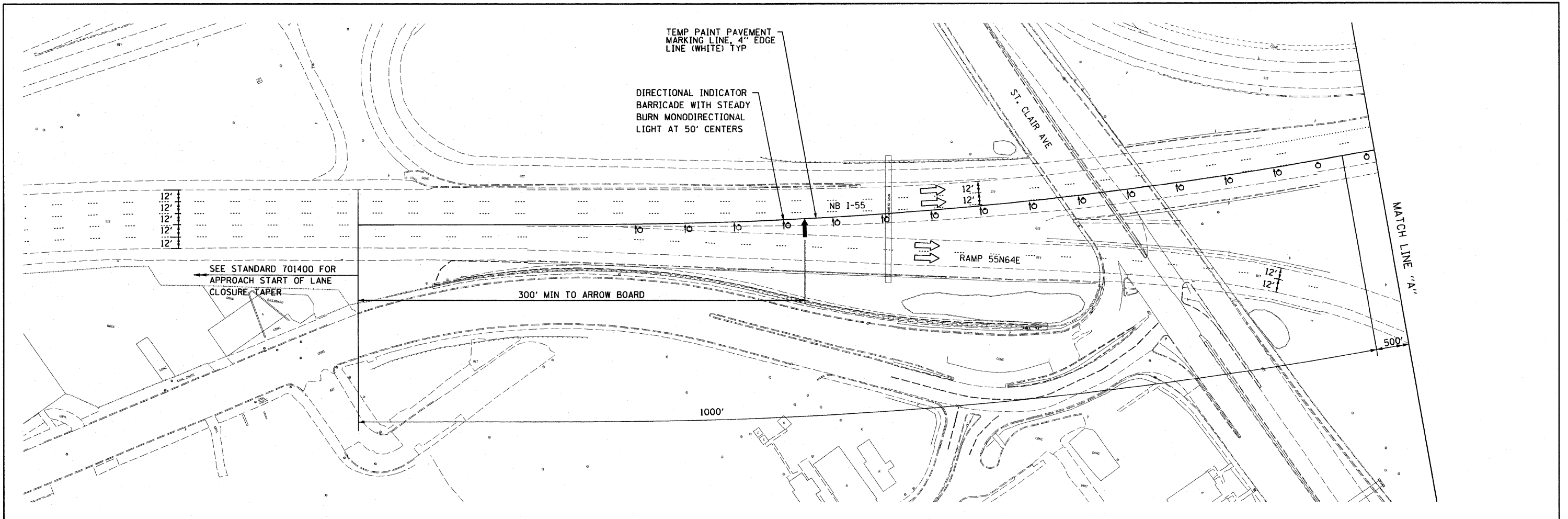
EXISTING L&N RR BRIDGE PIERS  
TO BE REMOVED, SEE EXISTING  
L&N RR BRIDGE PLANS  
(NOTE: EXISTING SUPERSTRUCTURE  
HAS ALREADY BEEN REMOVED)

PAVED SHOULDER REMOVAL AND  
REPLACE WITH CLASS B PATCHES,  
TYPE IV, 14 INCH  
PAVEMENT FABRIC  
TIE BARS 3/4"  
SAW CUTS



FILE NAME = 08TRI-76F29-Rem-01.dgn	USER NAME = pmsarno	DESIGNED OP	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>STRUCTURAL REMOVAL PLAN - L&amp;N RR BRIDGE PIERS</b>			F.A.I. RTE. 55/70	SECTION 82-IDM	COUNTY ST. CLAIR	TOTAL SHEETS 35	SHEET NO. 4
	PLOT SCALE = 40.0000' / in.	DRAWN OP	REVISED -		SCALE: 1" = 20'	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 76F29	
	PLOT DATE = 12/6/2011	CHECKED DBM	REVISED -									
		DATE 11-23-11	REVISED -									





**NOTE:**  
SEE SECTION A-A ON SHEET 2 OF 3

FILE NAME = DBTRI-76F29-Staging-01.dgn

USER NAME = pimsarno  
 PLOT SCALE = 100.0000' / in.  
 PLOT DATE = 11/22/2011

DESIGNED OP  
 DRAWN OP  
 CHECKED DBM  
 DATE 11-23-11

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

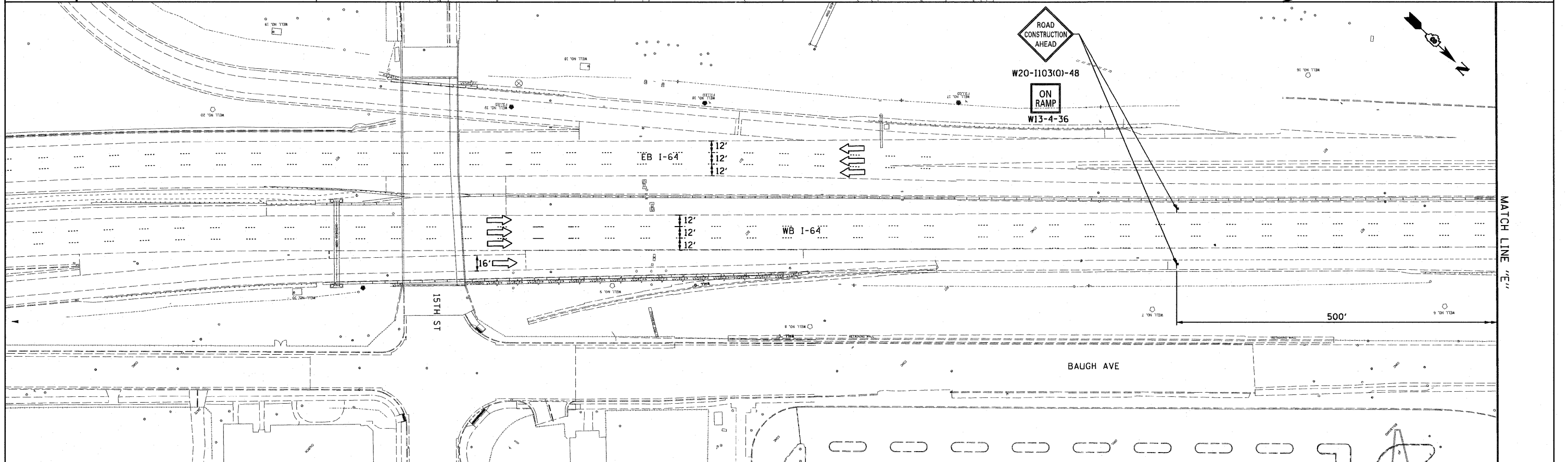
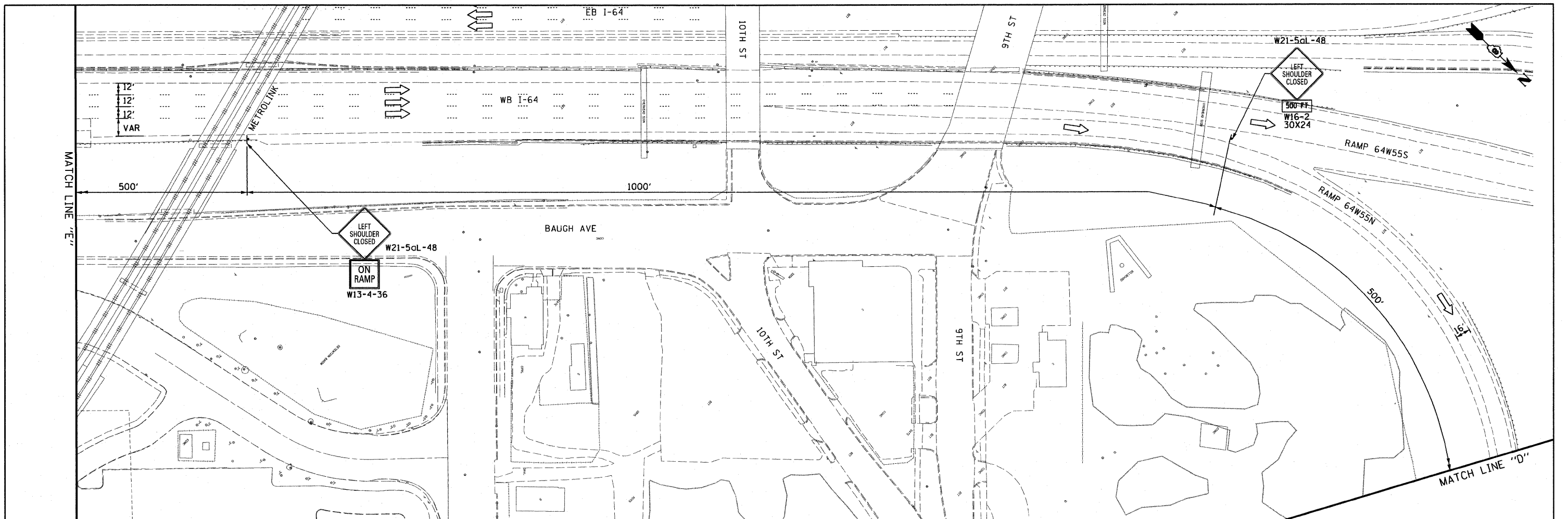
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLAN - L&N RR BRIDGE PIER DEMOLITION**

SCALE: 1" = 50' SHEET NO. 1 OF 3 SHEETS STA. TO STA.

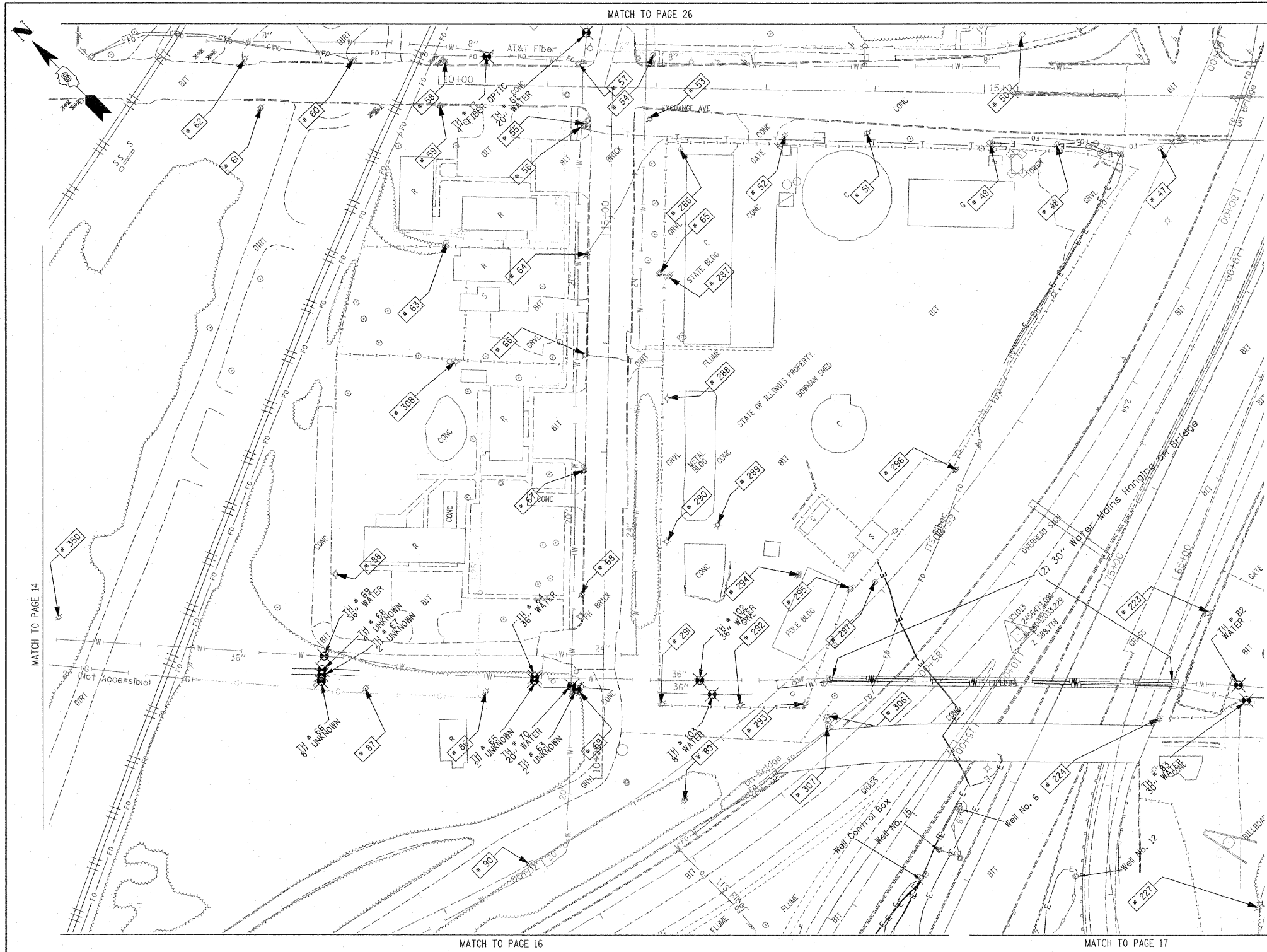
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/70	82-IDM	ST. CLAIR	35	6
CONTRACT NO. 76F29				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



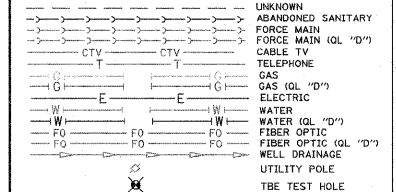


FILE NAME = D8TRI-76F29-Staging-83.dgn	USER NAME = pimsarno	DESIGNED OP	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLAN - L&amp;N RR BRIDGE PIER DEMOLITION</b>	F.A.I. RTE. 55/70	SECTION 82-IDM	COUNTY ST. CLAIR	TOTAL SHEETS 35	SHEET NO. 8	
	PLOT SCALE = 100.0000' / in.	DRAWN OP	REVISED -			SCALE: 1" = 50'	SHEET NO. 3 OF 3 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT
	PLOT DATE = 12/6/2011	CHECKED DBM	REVISED -								
		DATE 11-23-11	REVISED -								CONTRACT NO. 76F29





TBE Pole Number	Approximate Location	Identification # on Pole	Utilities Attached to Poles	Utility Owners	Notes: Additional Items Attached to Poles
47	48' WEST OF EXCHANGE CL	NO TAG	ELECTRIC	AMEREN ELECTRIC	
48	46' WEST OF EXCHANGE CL	4128	ELECTRIC	AMEREN ELECTRIC	GUY TO N. ELECTRIC DROP TO CELL TOWER
49	46' WEST OF EXCHANGE CL	4131	ELECTRIC	AMEREN ELECTRIC	GUY TO S. ELECTRIC DROP TO CELL TOWER
50	53' EAST OF EXCHANGE CL	NO TAG	ELECTRIC SERVICE	AMEREN ELECTRIC	ELECTRIC SERVICE TO BILLBOARD
51	40' WEST OF EXCHANGE CL	NO TAG	TELEPHONE SERVICE	AT&T	
52	43' WEST OF EXCHANGE CL	NO TAG	ELECTRIC	AMEREN ELECTRIC	
53	SW CORNER OF 7TH & EXCHANGE	727554	TELEPHONE SERVICE	AT&T	GUY TO WEST HOLDING POLE 54
54	SW CORNER OF 7TH & EXCHANGE	19002	ELECTRIC	AMEREN ELECTRIC	3 GUY S TO SW
55	SW CORNER OF 7TH & EXCHANGE	727553	TELEPHONE, CATV	AT&T, CHARTER CABLE	GUY TO WEST
56	SW CORNER OF 7TH & EXCHANGE	NO TAG	ELECTRIC	AMEREN ELECTRIC	TELEPHONE DROP
57	NE CORNER OF 7TH & EXCHANGE	19003	ELECTRIC, FIBER OPTIC, CATV, TELEPHONE	AMEREN ELECTRIC, CHARTER CABLE, AT&T	GUY TO NORTH
58	157' N OF 7TH & EXCHANGE	19004 5783	ELECTRIC, CATV	AMEREN ELECTRIC, CHARTER CABLE	
59	158' N OF 7TH & EXCHANGE	753189 83053	ELECTRIC	AMEREN ELECTRIC	STREET LIGHT POLE, CABLE ALPHA BOX, FOC DROP NORTH
60	232' N OF 7TH & EXCHANGE	19005	ELECTRIC, CATV	AMEREN ELECTRIC, CHARTER CABLE	CATV DROP NORTH
61	316' N OF 7TH & EXCHANGE	NO TAG	ELECTRIC SERVICE	AMEREN ELECTRIC	ELECTRIC METER, GUY TO NORTH
62	332' N OF 7TH & EXCHANGE	19006 851	ELECTRIC	AMEREN ELECTRIC	LIGHT
63	154' N OF 7TH & EXCHANGE	NO TAG	NO UTILITIES		ABANDONED POLE
64	156' W OF EXCHANGE CL ON 7TH ST.	72755	ELECTRIC, CATV, TELEPHONE	AMEREN ELECTRIC, AT&T, CHARTER CABLE	TELEPHONE DROP RUNNING SE
65	ON 7TH 116' W OF EXCHANGE CL	727552	ELECTRIC, TELEPHONE	AMEREN ELECTRIC, AT&T	TRANSFORMER
66	ON 7TH 250' W OF EXCHANGE CL	727549	ELECTRIC, CATV, TELEPHONE	AMEREN ELECTRIC, AT&T, CHARTER CABLE	TRANSFORMER, CATV DROP SOUTH
67	ON 7TH 355' W OF EXCHANGE CL	727548	ELECTRIC, CATV, TELEPHONE	AMEREN ELECTRIC, AT&T, CHARTER CABLE	2 LIGHTS
68	ON 7TH 470' W OF EXCHANGE CL	727547	ELECTRIC, CATV, TELEPHONE	AMEREN ELECTRIC, AT&T, CHARTER CABLE	ELECTRIC SERVICE TO BILLBOARD
69	ON 7TH 500' W OF EXCHANGE CL	727543 E-1669	ELECTRIC, TELEPHONE	AMEREN ELECTRIC, AT&T	LIGHT, GUY TO WEST
86	560' WEST OF 7TH & EXCHANGE	727544	ELECTRIC	AMEREN ELECTRIC	
87	560' WEST OF 7TH & EXCHANGE	727545	ELECTRIC	AMEREN ELECTRIC	GUY TO NORTH, TRANSFORMER
88	255' NORTH 7TH ST. CL	727546 29282	NO UTILITIES		LIGHT, ABANDONED WOODEN POLE
89	675' WEST OF 7TH & EXCHANGE	NO TAG	NO UTILITIES		GUY TO NORTH & SOUTH
223	474' WEST CL OF BOWMAN & 5TH	727540	ELECTRIC	AMEREN ELECTRIC	
224	472' WEST CL OF BOWMAN & 5TH	NO TAG	NO UTILITIES		
227	SOUTH OF POLE #224	NO TAG	ELECTRIC SERVICE	AMEREN ELECTRIC	ELECTRIC SERVICE TO BILLBOARD
286	SOUTHWEST CORNER 11TH & EXCHANGE AVE.	NO TAG	ELECTRIC SERVICE	AMEREN ELECTRIC	LIGHT
287	172' S CL EXCHANGE AVE. EAST SIDE 11TH ST.	NO TAG	ELECTRIC SERVICE	AMEREN ELECTRIC	METER, ELECTRIC SERVICE DROP
288	287' S CL EXCHANGE AVE. EAST SIDE 11TH ST.	NO TAG	ELECTRIC SERVICE	AMEREN ELECTRIC	ELECTRIC SERVICE TO BUILDING
289	400' S CL EXCHANGE AVE. EAST SIDE 11TH ST.	735190	ELECTRIC SERVICE, TELEPHONE	AMEREN ELECTRIC, AT&T	LIGHT
290	400' S CL EXCHANGE AVE. EAST SIDE 11TH ST.	NO TAG	ELECTRIC SERVICE, TELEPHONE	AMEREN ELECTRIC, AT&T	LIGHT
291	570' S CL EXCHANGE AVE. EAST SIDE 11TH ST.	NO TAG	ELECTRIC SERVICE	AMEREN ELECTRIC	LIGHT
292	75' EAST OF POLE #291	NO TAG	ELECTRIC SERVICE	AMEREN ELECTRIC	LIGHT
293	130' EAST OF POLE #291	NO TAG	ELECTRIC SERVICE	AMEREN ELECTRIC	LIGHT
294	175' EAST OF 11TH ST. AT STA. 11+90	NO TAG	ELECTRIC SERVICE, TELEPHONE	AMEREN ELECTRIC, AT&T	METER, LIGHT
295	225' EAST OF 11TH ST. AT STA. 11+90	735191	ELECTRIC SERVICE	AMEREN ELECTRIC	TRANSFORMER
296	320' EAST OF 11TH ST. AT STA. 11+90	727542	ELECTRIC SERVICE	AMEREN ELECTRIC	ELECTRIC SERVICE TO OVERHEAD BOARD ON I-55
297	245' EAST OF 11TH ST. AT STA. 11+90	727541	ELECTRIC SERVICE	AMEREN ELECTRIC	GUY TO NORTH
306	SE OF POLE #293	NO TAG	NO UTILITIES		GUY NORTH & EAST, LIGHT, TRANSFORMER
307	SE OF POLE #293 WEST OF POLE #306	NO TAG	NO UTILITIES		STRAIN POLE TO #306, NO UTILITIES
308	WEST OF POLE #66	727550	NO UTILITIES		LIGHT
350	E OF POLE 349	NO TAG	TELEPHONE SERVICE	AT&T	GUY TO NORTH



Utilities shown in color on these plans as depicted in the legend have been investigated by TBE Group, Inc in accordance with SUE Industry Standards. All other information shown has been provided to TBE Group, Inc by others. TBE's SUE field investigation was finished on 5/22/09. Changes to utilities after this date may have been made and therefore may result in variances from this plan. Consideration should be given to updating this plan if deemed advisable prior to final design and construction.

ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.

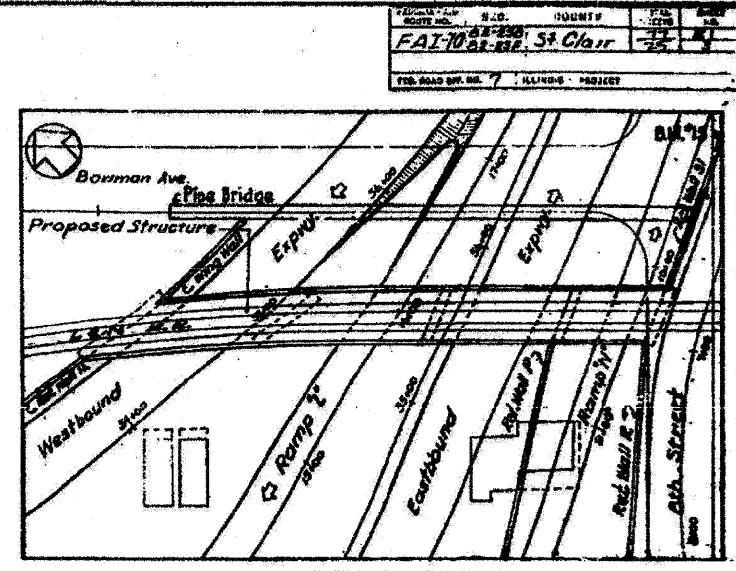
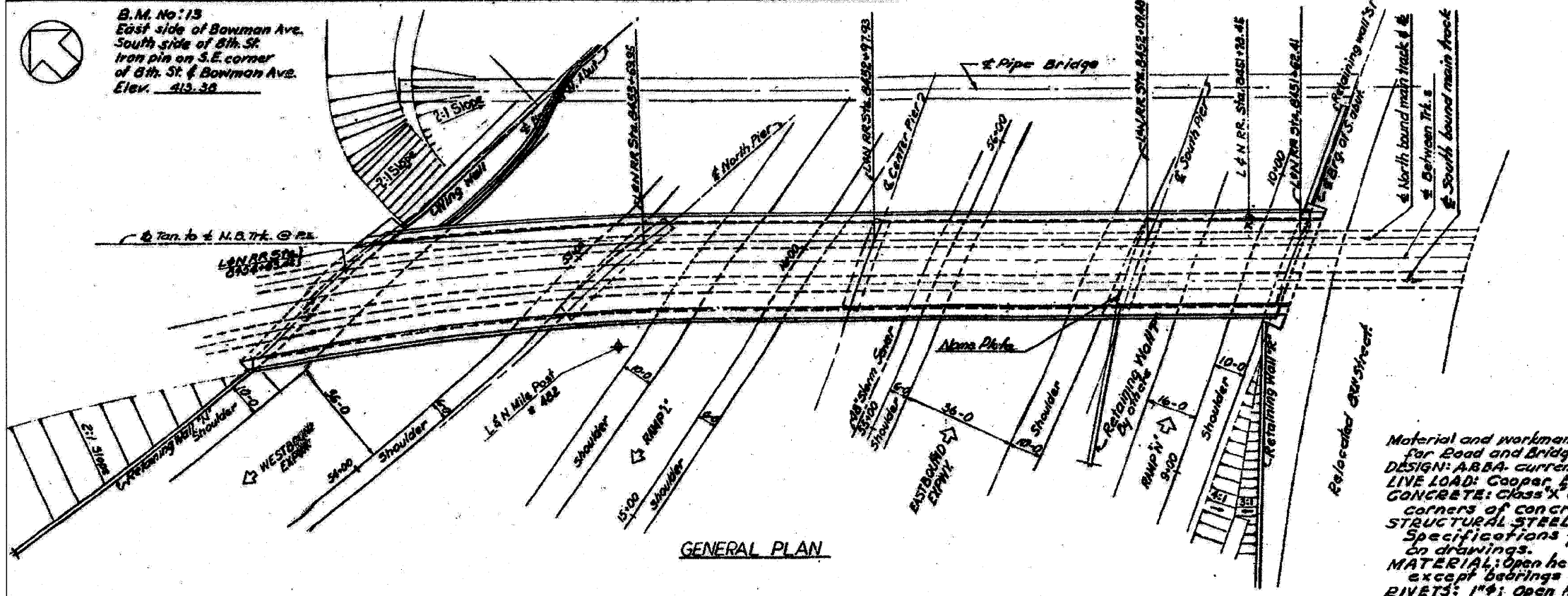
Utility Quality Level "A" : Test Hole  
 Utility Quality Level "B" : Designating  
 Utility Quality Level "C" : Research with Survey  
 Utility Quality Level "D" : Records Research

**TBE GROUP**  
 CIVIL ENGINEERING • TRANSPORTATION • ENVIRONMENTAL PLANNING • UTILITY ENGINEERING/LOCATING

Checked By: \_\_\_\_\_ Date: \_\_\_\_\_

TBE Job No. IL09500601.602.603.604.607.608.609  
 SUE Plan Page: 23 of 35

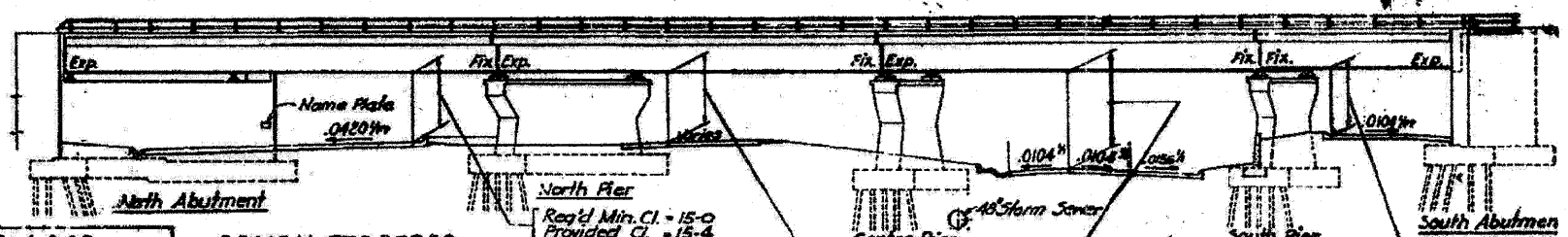
FILE NAME =	USER NAME =	DESIGNED EG, JP, LP	REVISED 7/28/09 - 8/26/09 ADDED TEST HOLES #60-108	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	Mississippi River Bridge Project	SCALE: SHEET NO. STA. TO STA.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*FILE#	PLOT SCALE = 1" = 50'	DRAWN KLC	REVISOR				FED. ROAD DIST. NO.	ILLINOIS	Job No.	D-98-061-08	St. Clair
	PLOT DATE = #DATE#	DATE 9/15/09	REVISOR						PTB NO. 147-038		



LOCATION PLAN

GENERAL NOTES

Material and workmanship shall be in accordance with "Standard Specifications for Road and Bridge Construction," State of Illinois, adopted January 2, 1934.  
 DESIGN: A.B.A. current specifications, except as noted below and shown on drawings.  
 LIVE LOAD: Cooper, E.T.E.  
 CONCRETE: Class "X" concrete shall be used throughout. All exposed edges and corners of concrete shall be chamfered 90°.  
 STRUCTURAL STEEL shall be fabricated in accordance with A.B.A. Specifications for Steel Railway Bridges (current), except as noted on drawings.  
 MATERIAL: Open hearth structural and rivet steel, A.S.T.M. A7 and A141 current, except bearings shall be of cast steel annealed as noted.  
 RIVETS: 1"Ø; open holes 1 1/8".  
 FIELD CONNECTIONS to be riveted.  
 COVER PLATES: Universal Mill Plates with both edges rolled shall be used for cover plates. Bottoms of end stiffener angles and their fills shall be milled to bear on bottom flange angles. The stiffener angles shall be ground to fit the fillets of the flange angles.  
 The backs of the bottom flange angles of end bearings shall be in a true plane (perpendicular to center line of web) for the full width of the flange and the full length of the sole plate, so the flange angles will have a full bearing on the sole plate or cover plate.  
 Diaphragm webs shall be flush with the backs of the top and bottom diaphragm angles to avoid grooves that will hold water.  
 No welding of steel will be permitted except as noted.  
 REAMING: All holes in cover plates, flange angles, web plates, web splice plates and end stiffeners (except OSL) and their fills shall be sub-punched 1/16" and reamed to 1/16" while assembled. Notes in laterals, lateral plates, diaphragms, int stiffeners and their fills, and OSL of end stiffeners may be punched to 1/16".  
 ANCHOR BOLTS: 1 1/2"Ø; 12" in masonry; 10" swedge.  
 PAINT: See Article 55.1 to 55.3 inclusive of the Standard Specifications.  
 Shop Paint: One coat Red Lead and Linseed Oil except for finished surfaces of pedestal which shall be coated with White Lead and Tallow applied hot as soon as the surfaces have been finished and accepted by the Inspector.  
 Field Paint: First and second field coats shall be Aluminum paint.  
 All paint shall be furnished and applied by the contractor involved.  
 All roller pins, bearing plates, pintles and anchor bolts shall be fabricated and set in accordance with A.B.A. Specifications for Steel Railway Bridges (current) and are included for payment as Structural Steel. Estimated Weight, 48,750 lbs.  
 All steel expansion devices between slabs and of piers and abutments and the perforated drainage angles shall be fabricated and set in accordance with Standard Specifications and are included for payment as Structural Steel. Estimated Weight, 39,460 lbs.



GENERAL PLAN

GENERAL NOTES-Continued

REINFORCEMENT: All reinforcement shall be deformed bars (A305), new billet steel, intermediate grade ASTM-A15 (current).  
 PILES shall be concrete and timber with a minimum load capacity as shown on the plans.  
 TEST PILES: (concrete and timber), shall be driven in permanent locations shown on the plans as directed by the Engineer, before ordering remainder of piles.  
 BORING DATA is shown on the drawings as a guide to bidders in estimating soil conditions which may be encountered in the work.  
 The back and ends of abutment walls, wingwalls and retaining walls shall be water proofed from top of footing to ground surface in accordance with Article 51.21 of the Standard Specifications. The bitumen used shall be asphalt.  
 Membrane Water-proofing shall be in accordance with Section 53 of the Standard Specifications. The bitumen used shall be asphalt.  
 EARTH PRESSURE: The horizontal pressure shall be that of fluid weighing 40 p.c.f. and the vertical pressure in such instance that of a fill weighing 120 p.c.f. The live load surcharge shall be 1030 pounds p.s.f., 14 feet wide per track on a material with an angle of repose of 30°.  
 Provide 3 feet of porous granular embankment behind the shafts of the North and South abutments, and the stems of Wall N, Northeast Wing Wall, Walls 2" and 3", as called for on drawings.  
 The 8" Corrugated Metal Pipe, Perforated, shall be galvanized.

STA. 55+64.60  
 BUILT BY  
 STATE OF ILLINOIS  
 FAI RT. 70 SEC. 2-2 SB  
 FA PROJECT 70-1 (13)  
 LOADING E 72

DESIGN STRESSES  
 f<sub>c</sub> = 1400 p.s.i. (Superstructure)  
 f<sub>c</sub> = 1000 p.s.i. (Substructure with earth pressure)  
 f<sub>s</sub> = 20,000 p.s.i. (Reinforcement)  
 f<sub>s</sub> = 18,000 p.s.i. (Structural Steel)  
 R = 10  
 V = 75 p.s.f. (Footings)

ELEVATION

TOTAL BILL OF MATERIAL FOR BRIDGE NO. 7, PIPE BRIDGE AND WALLS "N", "Q", "R" & "S"

UNIT	DESCRIPTION	SECTION 82-2SB		TOTAL
		SUPER STRUCTURE	SUB-STRUCTURE	
CY	SPECIAL EXCAVATION		61,520	61,520
CY	CLASS "A" EXCAVATION FOR STRUCTURES		4,597	4,597
CY	CLASS "X" CONCRETE	334	4,166	4,700
LB	REINFORCEMENT BARS	85,965	359,163	435,330
LB	STRUCTURAL STEEL	2,154,240		2,154,240
LF	PIPE HANDRAIL (GALVANIZED)	629		629
Eg	TEST PILES (CONCRETE)		5	5
LF	FURNISHING CONCRETE PILES		14,643	14,643
LF	DRIVING CONCRETE PILES		14,643	14,643
Eg	TEST PILE (CREOSOTED)		11	11
LF	FURNISHING CREOSOTED PILES		27,642	27,642
LF	DRIVING TIMBER PILES		27,642	27,642
Eg	NAME PLATES		2	2
LF	5" C.M.P., PERFORATED, GALVANIZED		4,228	4,228
SF	MEMBRANE WATER PROOFING	9,170		9,170
Month	PUMPING		18	18
LS	WROUGHT IRON PIPE DRAIN SYSTEM			LUMP SUM
LS	TEMPORARY SHEETING & BRACING			LUMP SUM
LF	CHAIN LINE FENCE		737	737
CY	POROUS GRANULAR EMBANKMENT		365	365

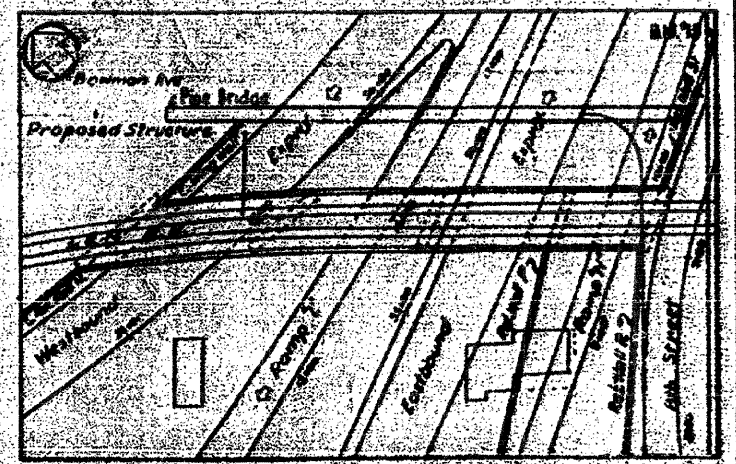
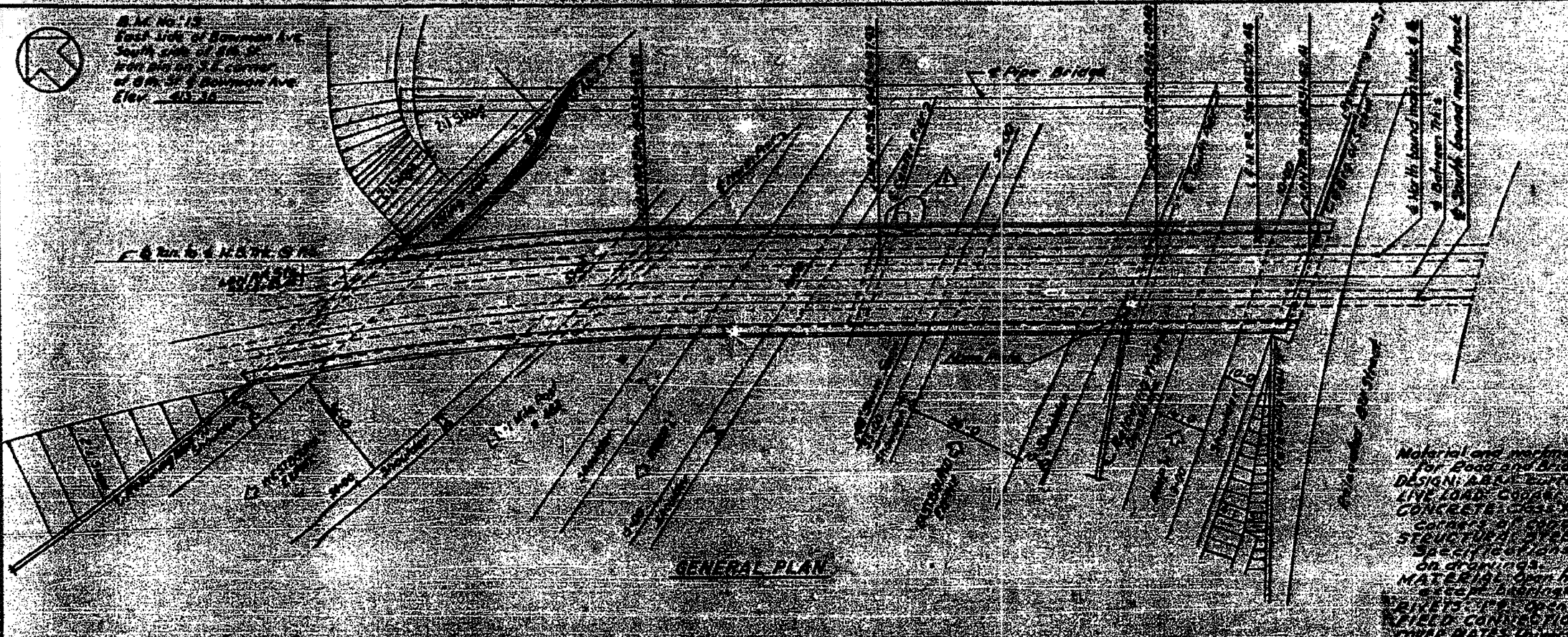
STATE OF ILLINOIS  
 DEPARTMENT OF PUBLIC WORKS & BLDGS.  
 DIVISION OF HIGHWAYS  
 &  
 CITY OF EAST ST. LOUIS  
 EAST ST. LOUIS EXPRESSWAY

L. & N. R. R. OVER WEST BOUND EXPWAY,  
 RAMP "L", EAST BOUND EXPWAY AND RAMP "T"

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

DATE JULY 1960 SHEET NO. 1

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
82-10	ST. CLAIR	35	11



GENERAL NOTES

Material and workmanship shall be in accordance with "Standard Specifications for Road and Bridge Construction, State of Illinois, adopted January 6, 1950." DESIGN: A.B.A. Special Specifications, except as noted below and shown on drawings. LIN. LOAD: 1000 LB. PER FT.

CONCRETE shall be concrete shall be used throughout. All exposed edges and corners of concrete shall be chamfered 3/4".

STRUCTURAL STEEL shall be fabricated in accordance with A.B.A. Specifications for Steel Railway Bridges (current), except as noted on drawings.

MATERIAL: Deck, haunch structural and rivet steel, A.S.T.M. A7 and A14 (current), and all bridge shall be of cast steel annealed as noted.

WELDS: All welds shall be made in accordance with the A.B.A. Specifications for Steel Railway Bridges (current).

WELDED CONNECTIONS shall be riveted.

COVER PLATES: All cover plates shall be used for cover to girders and stiffeners and their fills shall be milled to bear on bottom flange and stiffener edges shall be ground to fit the fillets of the flanges.

The top and bottom flange angles at end bearings shall be in a true plane (top and bottom) center line of web for the full width of the flange and shall be milled to the same plane so the flange angles will have a full bearing on the plate or cover plate.

Diaphragms shall be fitted with the backs of the top and bottom diaphragms to give a diaphragm that will hold water.

No riveting of steel will be permitted except as noted.

REINFORCING: Reinforcing cover plates, flange angles, web splice plates and end stiffeners (except gusset and their fills) shall be sub-punched, filed and finished to the white assembly state in laterals, lateral plates, diaphragms, the stiffeners and their fills, and OSJ of end stiffeners may be punched as noted.

ANCHORS: All anchors shall be in masonry 10" square.

PAINT: 3/4" thick lead to 5/8" inclusive of the Standard Specifications. The lead and coat lead and Unseed Oil except for finished surfaces of steel which shall be coated with White Lead and Tallow applied hot as soon as the surfaces have been finished and accepted by the Inspector. All paint shall be stored and secured in fire coats shall be Aluminum paint.

All paint shall be furnished and applied by the contractor involved. All steel shall be painted with a primer and one coat of paint shall be fabricated and set in accordance with A.B.A. Specifications for Steel Railway Bridges (current) and are included for payment in Structural Steel Estimated Weight 40,750 lbs. All steel shall be painted with a primer and one coat of paint and the primer and one coat of paint shall be fabricated and set in accordance with Standard Specifications and are included for payment as Structural Steel Estimated Weight 39,450 lbs.



STA. 55+11.25  
BUILT BY  
STATE OF ILLINOIS  
F.A.E. PROJECT 7-77-1 (20)  
LOADING 1.75

DESIGN STRESSES

For 1000 lb. live load structure  
For 1000 lb. live load with earth pressure  
For 1000 lb. live load with wind pressure  
For 10,000 lb. structural dead load  
V = 75 ft. (center)

GENERAL NOTES CONTINUED

REINFORCEMENT: Reinforcement shall be determined here (A.S.T.M. A615) and shall be placed with a minimum lead of 4" and shall be driven in the place as directed by the contractor. The contractor shall be responsible for the proper placement of reinforcement which may be required to maintain the shape of the walls and the stability of the structure. The reinforcement shall be placed in the walls and the stability of the structure shall be maintained. The reinforcement shall be placed in the walls and the stability of the structure shall be maintained.

LETTERING FOR NAME PLATE TOTAL BILL OF MATERIAL FOR BRIDGE NO. 7, PIPE BRIDGE AND WALLS B, C, D, E & F

UNIT	DESCRIPTION	SECTION 12-11	SECTION 12-11	SECTION 12-11
CF	SPREADER	1.00	1.00	1.00
CY	CLASS A EXCAVATION FOR STRUCTURES	1.00	1.00	1.00
CY	CLASS B CONCRETE	1.00	1.00	1.00
LB	REINFORCING BARS	1.00	1.00	1.00
LB	STRUCTURAL STEEL	1.00	1.00	1.00
CF	TEST PILES (CONCRETE)	1.00	1.00	1.00
CF	TEST PILES (STEEL)	1.00	1.00	1.00
LB	REINFORCING CONCRETE PILES	1.00	1.00	1.00
LB	DRIVING CONCRETE PILES	1.00	1.00	1.00
CF	TEST PILE (CONCRETE)	1.00	1.00	1.00
LB	REINFORCING CONCRETE PILES	1.00	1.00	1.00
LB	DRIVING CONCRETE PILES	1.00	1.00	1.00
CF	BASE PLATE	1.00	1.00	1.00
LB	REINFORCING CONCRETE PILES	1.00	1.00	1.00
CF	REINFORCING CONCRETE PILES	1.00	1.00	1.00
CF	ROUGH IRON PIPE DRAIN SYSTEM	1.00	1.00	1.00
CF	TEMPORARY BRACING & BRACING	1.00	1.00	1.00
CF	CHAIN LINE FENCE	1.00	1.00	1.00
CY	POROUS GRANULAR EMBANKMENT	1.00	1.00	1.00

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BLDGS.  
DIVISION OF HIGHWAYS  
CITY OF EAST ST. LOUIS  
EAST ST. LOUIS EXPRESSWAY  
L & N R.R. OVER WEST BOUND EXPWAY,  
RAMP 7, EAST BOUND EXPWAY AND RAMP 7  
GENERAL PLAN  
K. W. SCHUBERT, INC.  
ENGINEERS  
CHICAGO, ILLINOIS  
DATE JULY 1960  
SHEET NO. 11



FOR INFORMATION ONLY

STATE	COUNTY	SHEET NO.	TOTAL SHEETS
ILLINOIS	ST. CLAIR	11	23

NO. B-12

NO. B-13

NO. B-14

NO. B-12

NO. B-16

ELEV. 425

ELEV.	NO. B-12	NO. B-13	NO. B-14	NO. B-12	NO. B-16
420	Ground surface	Ground surface	Ground surface	Ground surface	Ground surface
415	Elev. 418.0 Cinders & coal fill. 4 3'-0"	Elev. 418.0 Cinders & clay fill. 6 4'-0"	Elev. 418.0 Cinders & clay fill. 6 2'-6"	Elev. 416.8 Brown silty clay 11 4'-0"	Elev. 416.3 Sandy silty clay & cinder fill 7 3'-0"
410	Brown silty clay. 10 6'-0"	Brown & grey silty clay. 8 4'-0"	Brown silty clay w/very fine sand. 14 8'-0"	Brown silty clay 6 4'-0"	Brown silty clay with very fine sand 8 6'-0"
405	Brown sandy silty clay. 12 8'-0"	Brown very fine to fine sand tr. clay. 4 2'-0"	Brown very fine to fine silty sand. 4 2'-0"	Brown silt & very fine sand trace clay 5 5'	Fine silty grey sand 7 2'-0"
400	Brown very fine to fine sand. 8 13'-0"	Brown silty clay w/very fine sand. 4 2'-0"	Brown very fine to fine silty sand. 6 2'-0"	Brown silt & very fine sand trace clay 11 17'-0"	Fine silty brown sand, trace clay 4 17'-0"
395	Brown & grey silty clay. 4 15'-0"	Brown very fine to fine silty sand. 4 11'-0"	Brown very fine to fine silty sand. 6 11'-0"	Brown silt & very fine sand trace clay 11 17'-0"	Brown grey silty clay with very fine sand 4 17'-0"
390	Brown fine sand trace silt. 20 22'-0"	Grey clayey silt & very fine sand. 4 25'-0"	Grey clayey silt & very fine sand. 4 25'-0"	Brown silt & very fine sand trace clay 11 22'-0"	Brown grey silty clay with very fine sand 4 22'-0"
385	Grey clayey silty & very fine sand. 3 26'-6"	Grey fine to medium sand w/clay. 11 26'-0"	Grey silty clay. 4 26'-0"	Grey silt & very fine sand 3 26'-6"	Fine silty 12 26'-6"
380	Grey very fine to fine sand. 15 31'-0"	Grey fine sand. 24 32'-0"	Grey fine to medium sand. 12 32'-0"	Grey silty very fine sand 18 35'-0"	Fine silty 12 35'-0"
375	Grey fine to medium sand. 52 36'-0"	Grey fine to medium sand. 28 37'-6"	Grey fine to coarse sand. 67 37'-6"	Grey fine sand * 60 37'-0"	Grey sand 23 37'-0"
370	Grey fine to medium sand. 10 39'-0"	Grey fine to coarse sand tr. sm. gravel. 8 39'-0"	Grey fine to coarse sand trace sm. gravel. 12 39'-0"	Grey coarse sand & small gravel * 18 42'-0"	Fine to coarse grey sand with small to large gravel 10 42'-0"
365	Brown fine to coarse sand trace small gravel. 15 43'-0"	Grey fine to coarse sand tr. sm. gravel. 21 44'-0"	Grey fine to coarse sand trace sm. gravel. 13 44'-0"	Grey medium to coarse sand * 8 44'-0"	Fine to coarse grey sand with small to large gravel 17 44'-0"
360	Grey fine to medium sand. 8 46'-0"	Grey fine to coarse sand. 5 46'-0"	Grey fine to coarse sand. 17 46'-0"	Grey medium to coarse sand * 15 46'-0"	Fine to coarse silty grey sand 26 46'-0"
355	Grey fine to medium sand. 17 51'-0"	Grey fine to coarse sand. 28 54'-0"	Note A: Grey fine to medium sand w/clay. 17 54'-0"	Grey medium to coarse sand * 14 51'-0"	Fine to coarse silty grey sand 23 51'-0"
350	Grey fine to medium sand. 30 60'-0"	Grey fine to coarse sand. 32 60'-0"	Note A: Grey fine to medium sand w/clay. 20 60'-0"	Grey fine sand * 8 60'-0"	Fine to coarse silty grey sand 23 60'-0"
	Boring stopped by client.	Boring stopped by client.	Boring stopped by client.	Grey fine sand * 6 64'-0"	Fine to coarse silty grey sand 23 64'-0"

Used 39' of 2 1/2" casing.  
Water level 39' below ground surface. 3/4 hr. after completion.  
Date: 4-24-56

Used 39' of 2 1/2" casing.  
Water level 39' below ground surface 1 hr. after completion.  
Date: 4-25-56.

Used 59' of 2 1/2" casing.  
Date: 4-26-56.

Boring stopped by client at El. 326.0  
From El. 346.0 to El. 344.0  
Grey very fine to fine sand. 20 blows per ft.  
From El. 344.0 to El. 338.0  
Grey medium to coarse sand, trace small gravel 8 blows per ft.  
From El. 338.0 to El. 335.0  
Grey fine sand, trace clay. 78 blows per ft.  
From El. 335.0 to El. 326.0  
Grey medium to coarse sand with small gravel 8 to 10 blows per ft.  
In all cases circulating water lost in strata  
Bailed to 48'-0"  
Date: 3-10-1950

S.T. Denotes Shelby tube samples  
\* Circulating water lost  
Used 60' of 2 1/2" casing.  
Water level is 34'-0" below ground surface 1 hour after completion.  
Date: 5-20-1953

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BLDGS.  
DIVISION OF HIGHWAYS  
6  
CITY OF EAST ST. LOUIS  
EAST ST. LOUIS EXPRESSWAY  
L. & N. R. OVER WEST BOUND EXPWY.  
RAMP L, EAST BOUND EXPWY AND RAMP N  
BORING LOGS

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

DATE JULY 1960 SHEET NO. 3

KEY:  
W.L. - Water line.  
\* - Indicates water loss in strata.  
S.T. - Indicates Shelby tube.

Drawn by: V.D.  
Checked by: B.S.T.

PROJECT NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
R.A.T. 70	82-10M	ST. CLAIR	35	14
DATE: JULY 1960 CHICAGO, ILLINOIS SHEET NO. 4				

NO. B-6

NO. B-7

NO. B-8

ELEV.	Ground surface	Ground surface	Ground surface
420	Elev. 417.5	Elev. 416.2	Elev. 417.7
415	Brown silty clay topsoil 12 3'-0"	Cinder fill 2'-0"	Dark brown silty clay topsoil 10 3'-0"
	Brown silty clay 9 6'-0"	Brown silty clay 8 7'-0"	Brown silty clay 8 6'-0"
410	Brown silt & very fine sand trace clay 9 6'-0"	Brown silt & very fine sand with clay 7 6'-0"	Brown very fine silty sand 6 6'-0"
405	Brown very fine sand 6 15'-0"	Brown silt & very fine sand with clay 3 17'-0"	Brown silt & very fine sand 5 15'-0"
400	Gray silt 10 16'-0"	Brown fine to medium sand, trace clay 3 17'-0"	Brown & gray clayey silt with thin sand seams 4 16'-0"
395	Brown silt & very fine sand 3 25'-0"	Brown fine to medium sand, trace clay 20 25'-0"	Brown & gray clayey silt with thin sand seams 5 25'-0"
390	Gray fine sand 6 27'-0"	Brown fine to medium sand, trace clay 20 25'-0"	Brown fine sand trace silt 29 26'-0"
385	Gray fine to coarse sand 29 32'-0"	Brown fine to medium sand, trace clay 20 25'-0"	Gray clayey silt with very fine sand 5 35'-0"
380	Gray medium to coarse sand trace clay & small gravel 51 36'-0"	Brown medium to coarse sand 7 41'-0"	Gray clayey silt & very fine sand 18 37'-0"
375	Gray medium to coarse sand trace small gravel 10 41'-0"	Gray fine sand 25 41'-0"	Gray medium to coarse sand with small gravel 45 46'-0"
370	Gray fine sand 21 41'-0"	Gray medium sand 20 41'-0"	Gray medium to coarse sand trace large gravel 15 46'-0"
365	Gray fine sand 46 41'-0"	Gray medium sand 20 41'-0"	Gray, very fine silty sand 17 46'-0"
360	Gray fine to coarse sand 20 41'-0"	Gray medium sand 20 41'-0"	Gray fine sand with silt 40 46'-0"
355	Gray fine to coarse sand 20 41'-0"	Gray medium sand 20 41'-0"	Gray fine to coarse sand with sm to fine gravel 40 46'-0"
350	Gray fine to coarse sand 20 41'-0"	Gray medium sand 20 41'-0"	Gray fine sand 40 46'-0"
345	Gray fine to coarse sand 20 41'-0"	Gray medium sand 20 41'-0"	Gray fine sand 40 46'-0"
340	Gray fine to coarse sand 20 41'-0"	Gray medium sand 20 41'-0"	Gray fine sand 40 46'-0"
335	Gray fine to coarse sand 20 41'-0"	Gray medium sand 20 41'-0"	Gray fine sand 40 46'-0"
330	Gray fine to coarse sand 20 41'-0"	Gray medium sand 20 41'-0"	Gray fine sand 40 46'-0"
325	Gray fine to coarse sand 20 41'-0"	Gray medium sand 20 41'-0"	Gray fine sand 40 46'-0"

Boring stopped by Mr. Hanson

Refusal - Rock or boulder  
Boring bailed to 10'-0"

Boring stopped by Mr. Hanson.  
Boring bailed to 55'-0"

Used 60'-0" of 2 1/2" casing.  
Water levels below ground surface  
17'-0" with casing at 69'-0"  
47'-0" with casing at 84'-0"  
51'-0" with casing at 69'-0"  
51'-0" 1 1/2 hours after completion.

Used 60'-2" of 2 1/2" casing.  
Water levels below ground surface  
33'-0" 1 1/2 hours  
caved - 23'-0" 28 hours after completion

Used 60'-0" of 2 1/2" casing.  
Water levels below ground surface.  
31'-0" 1 hour  
caved - 30'-0" 2 1/2 hours after completion

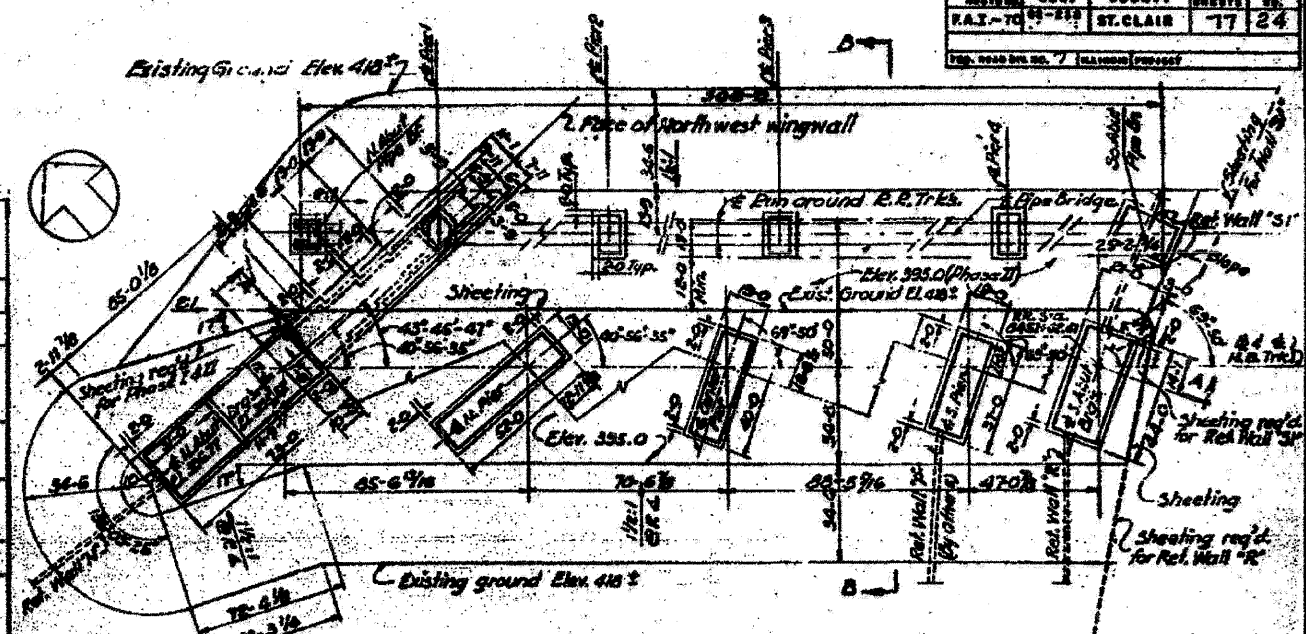
\* Circulating water loss in strata  
Date: March 10, 1958

NOTES:

- Classifications are made by visual inspection.
- Water levels (W.L.) figure indicates time of reading (based after completion of boring). Water levels indicated are those observed when borings were made, or as noted. Porosity of the soil strata, variations of rainfall, site topography, etc., may cause changes in these levels.
- Figures in right hand column indicate number of blows required to drive 3" O.D. sampling pipe casing, using 140-lb weight falling 30 inches.

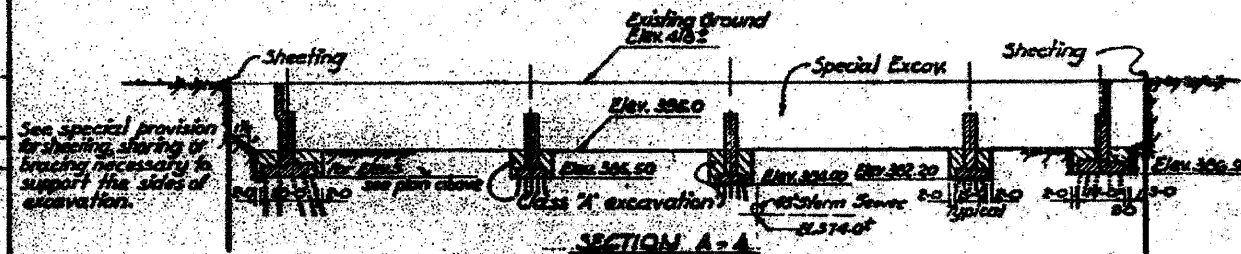
Designed by: R.D.  
Drawn by: R.B.  
Checked by: P.D.

EXCAVATION QUANTITIES FOR BRIDGE & NORTH EAST NINE HALL	
Class II Excav. for structure	sq. 2,500
Special Excav. (Phase I)	sq. 82,500
Special Excav. (Phase II)	sq. 16,900

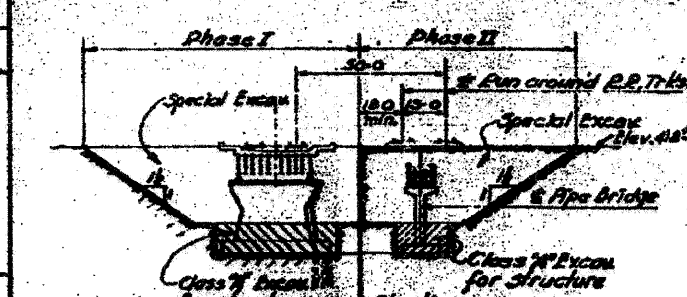


EXCAVATION PLAN

Note: For excavation and sheeting required for Ret Walls, see highway plans.

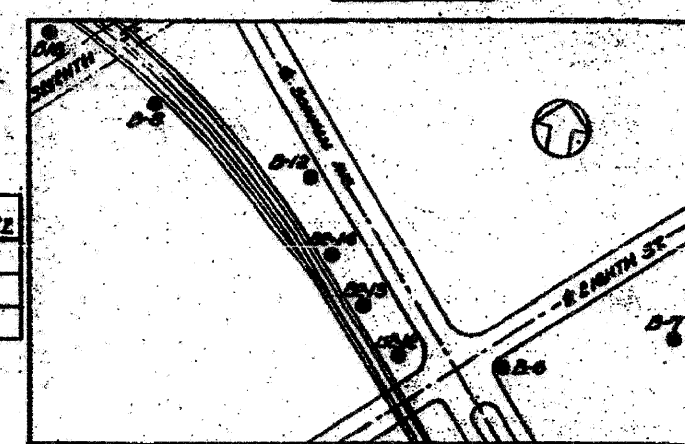


SECTION A-A



SECTION B-B

Notes: See Special Provisions for sequence of construction.



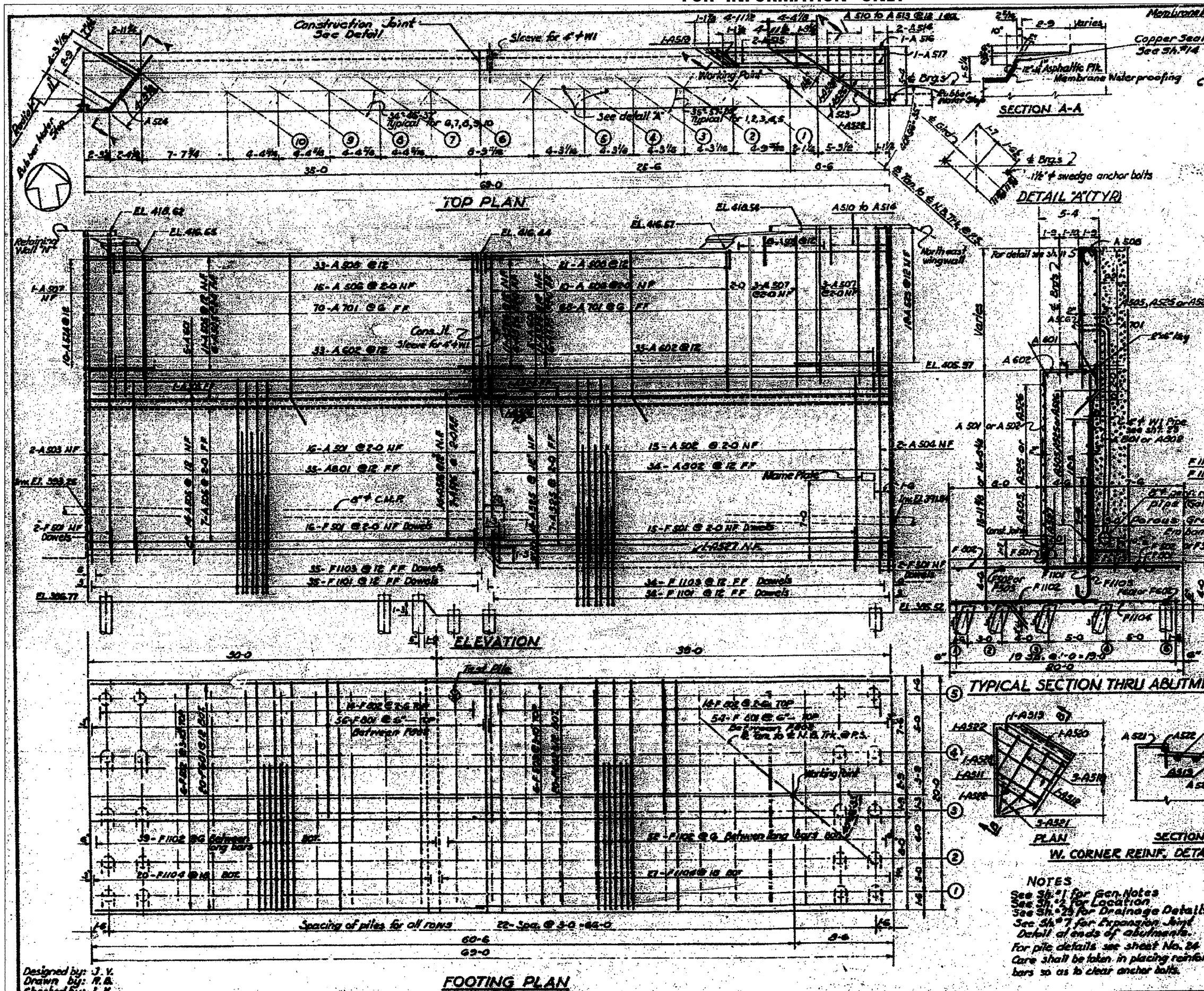
LOCATION PLOT OF BORINGS

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BLDGS.  
DIVISION OF HIGHWAYS  
CITY OF EAST ST. LOUIS  
EAST ST. LOUIS EXPRESSWAY  
L. & N. R.R. OVER WEST BOUND EXPWAY,  
RAMP "L" EAST BOUND EXPWAY AND RAMP "C"  
BORING LOGS & EXCAVATION PLAN

H. W. LOCHNER, INC.  
ENGINEERS

DATE JULY 1960 CHICAGO, ILLINOIS SHEET NO. 4

PROJECT NO.	SEC.	COUNTY	SHEET NO.
FAE-70	21-111	St. Clair	35
TOTAL SHEETS: 7			



**CONSTRUCTION JOINT BAR SCHEDULE**

Mark	# Reqd	Size	Length	Shape	Mark	# Reqd	Size	Length	Shape
F501	35	#5	3-0	U	A509	6	#5	7-0	U
F502	6	#5	34-9	U	A510	1		8-4	U
F503	6	#5	33-0	U	A511	2		9-0	U
F601	20	#6	34-0	U	A512	2		9-0	U
F602	20	#6	33-0	U	A513	2		10-4	U
					A514	2		10-11	U
					A515	2		9-6	U
					A516	1		11-10	U
F801	110	#8	12-0	U	A517	1		9-6	U
F802	28	#8	19-6	U	A518	3		6-2	U
					A519	1		2-9	U
					A520	1		5-9	U
F1101	69	#11	12-3	U	A521	3		3-6	U
F1102	91	#11	12-6	U	A522	3		2-9	U
F1103	69	#11	17-2	U	A523	12		2-9	U
F1104	47	#11	19-6	U	A524	10		7-6	U
					A525	39		33-0	U
					A526	40		4-0	U
					A527	1		33-3	U
A501	16	#5	14-6	U	A528	2	5	4-11	U
A502	15		15-9	U					
A503	2		27-2	U	A601	16	#6	34-2	U
A504	2		28-4	U	A602	60	#6	7-5	U
A505	39		34-9	U					
A506	25		15-0	U	A701	138	#7	15-0	U
A507	7		14-0	U	A801	35	#8	14-0	U
A508	56	#5	3-10	U	A902	34	#8	16-1	U

**BILL OF MATERIAL**

Class 'X' concrete	Cu Yd	431
Reinforcement bars	Lbs	4,038
Furnishing concrete piles	L.F.	4560
Driving concrete piles	L.F.	4560
Test piles (concrete)	Ea.	1
Porous granular embankment	Cu Yd	176
Membrane Water proofing	S.F.	45
5" C.M.R. Perforated (R-12)	L.F.	69

Incidental to cost of Class 'X' Concrete

**PILE DATA**

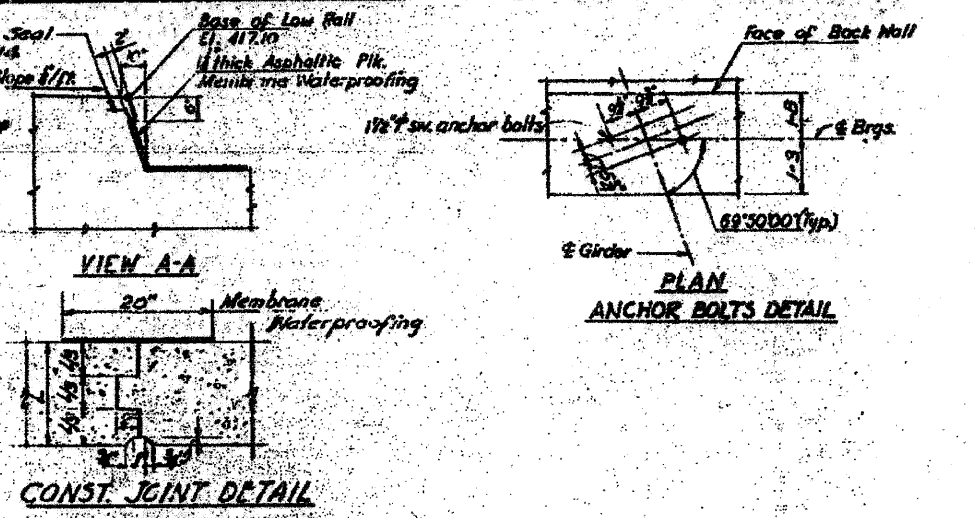
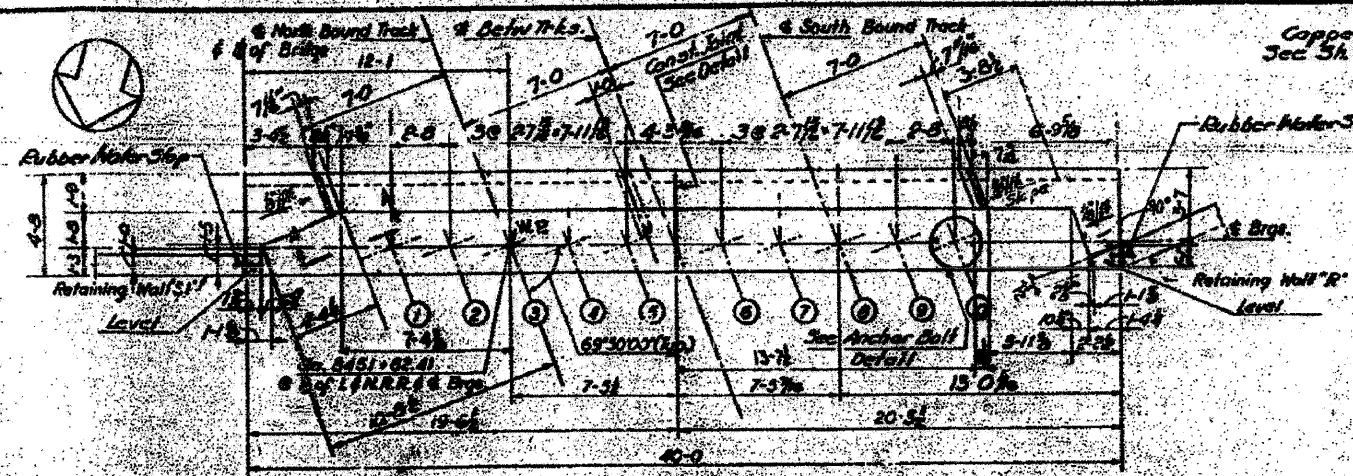
Type	Concrete
Length	40 Ft
Capacity	40 Tons
No. Required	114 Ea.
Test Pile	1 Ea.

STATE OF ILLINOIS  
 DEPARTMENT OF PUBLIC WORKS & BLDGS.  
 DIVISION OF HIGHWAYS  
 &  
 CITY OF EAST ST. LOUIS  
**EAST ST. LOUIS EXPRESSWAY**  
 L. & N. R.R. OVER WEST BOUND EXPWAY  
 RAMP "L", EAST BOUND EXPWAY AND RAMP "N"  
 NORTH ABUTMENT  
 H. W. LOCHNER, INC.  
 ENGINEERS  
 DATE JULY 1960 CHICAGO, ILLINOIS SHEET NO. 9

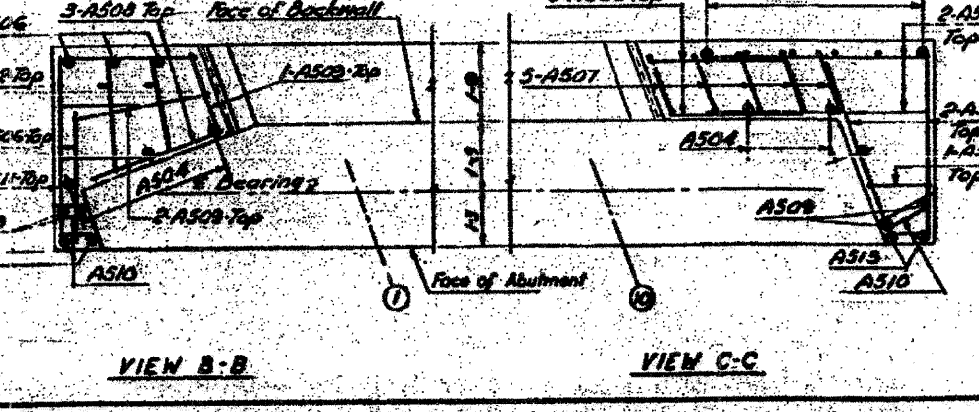
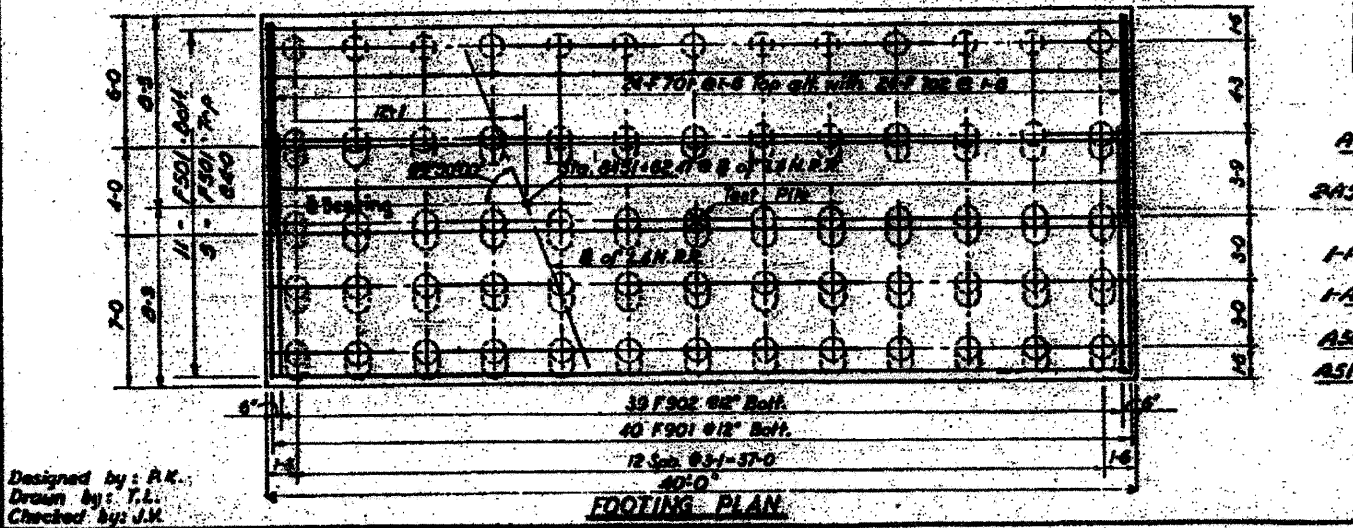
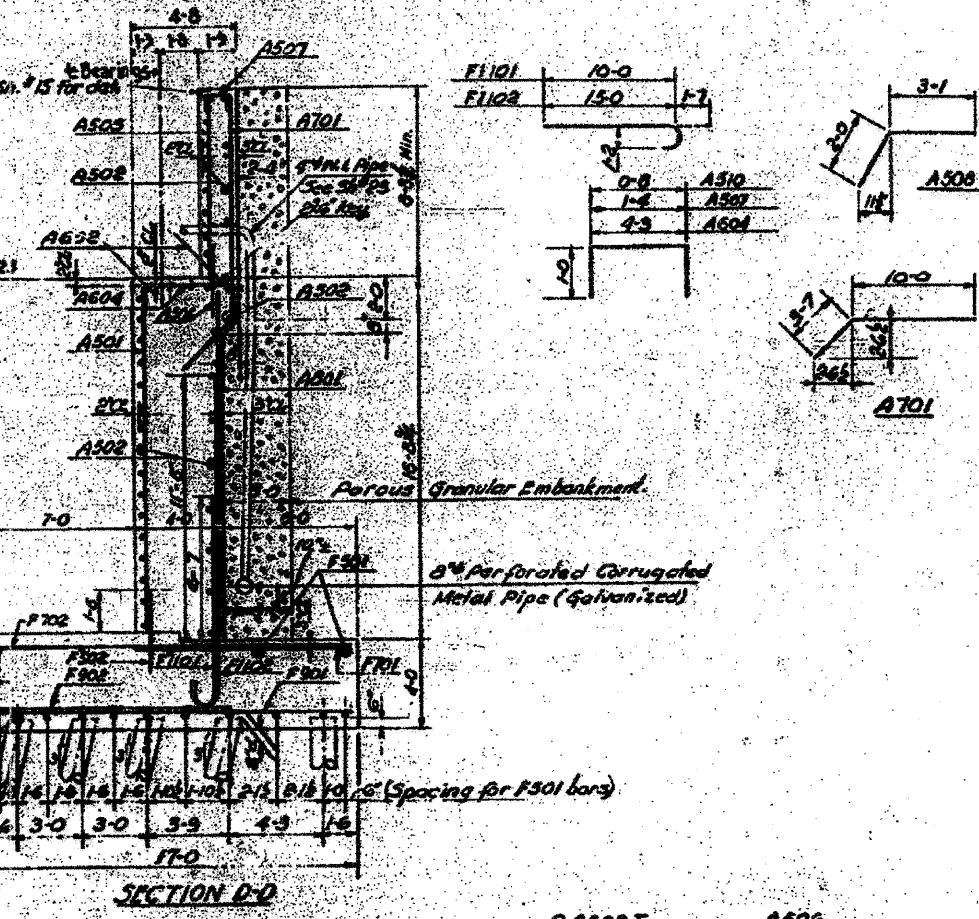
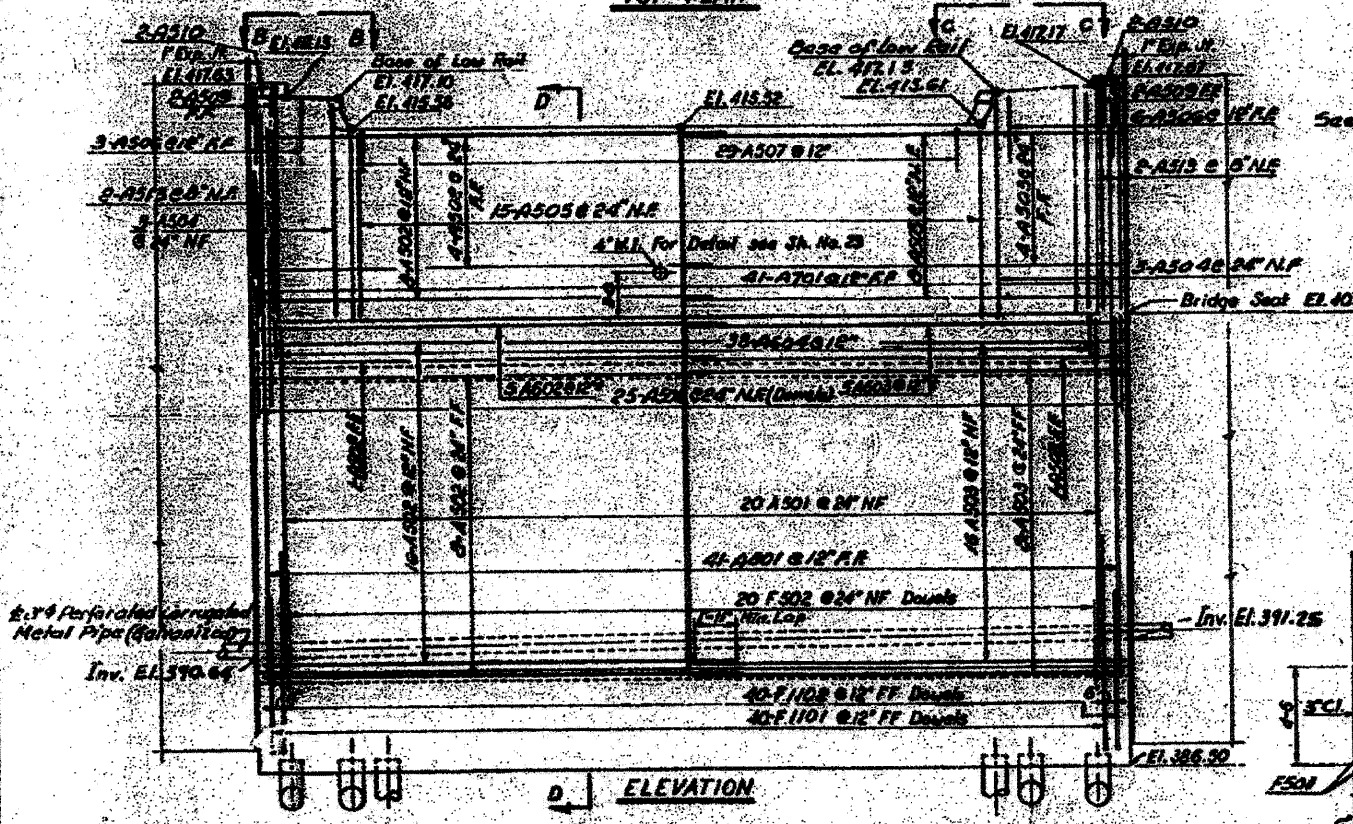
**NOTES**  
 See Sh. #1 for Gen. Notes  
 See Sh. #2 for Location  
 See Sh. #3 for Drainage Details  
 See Sh. #7 for Expansion Joint Detail at ends of abutments.  
 For pile details see sheet No. 24  
 Care shall be taken in placing reinforcement bars so as to clear anchor bolts.

FOR INFORMATION ONLY

PROJECT NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
FAI-706-112	82-IDM	ST. CLAIR	35	16
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				



BAR SCHEDULE				
Mark	No. Req'd	Size	Length	Shape
F301	16	5	39-6	—
F302	20	5	3-0	—
F701	24	7	9-0	—
F901	40	9	18-6	—
F902	39	9	11-0	—
F1101	40	11	11-7	—
F1102	40	11	14-7	—
F702	26	7	16-6	—
A501	20	5	16-0	—
A502	37	5	21-8	—
A503	37	5	20-2	—
A504	6	5	9-8	—
A505	15	5	8-1	—
A506	35	5	3-0	—
A507	35	5	3-4	—
A508	5	5	3-1	—
A509	6	5	1-0	—
A510	4	5	2-8	—
A511	3	5	4-3	—
A512	2	5	2-8	—
A513	4	5	10-2	—
A514	2	5	5-0	—
A602	5	6	24-1	—
A603	5	6	20-2	—
A604	38	6	6-3	—
A701	41	7	13-7	—
A801	41	8	15-6	—



BILL OF MATERIAL	
Class "X" Concrete	C.Y. 234
Reinforced bars	Lbs. 17730
Furnishing Concrete Piles	Lb. Ft. 2457
Driving Concrete Piles	Lb. Ft. 8557
Test Pile (Concrete)	Each 104
Porous Granular Embankment	CY 104
Membrane Water proofing	S.F. 41
6" CMP Perforated (Galv.)	L.F. 40
Incidental to cost of Class "X" Concrete	

PILE DATA	
Type	Concrete
Length	33.7 ft
Capacity	40 ton
No. Required	64 lbs
Test Pile	1 lb

Notes:  
 For pile details see Sh. #84.  
 Core shall be taken in placing reinforcement bars so as to clear anchor bolts.  
 For General Notes see Sh. #1.  
 For Location see Sh. #2.  
 See Sh. #7 for Expansion Joint Details at ends of abutments.

STATE OF ILLINOIS  
 DEPARTMENT OF PUBLIC WORKS & BLDGS.  
 DIVISION OF HIGHWAYS  
 &  
 CITY OF EAST ST. LOUIS  
**EAST ST. LOUIS EXPRESSWAY**  
 L. & N. R.R. OVER WEST BOUND EXPWAY,  
 RAMP "L", EAST SOUND EXPWAY AND RAMP "M"  
 SOUTH ABUTMENT  
 H. W. LOCHNER, INC.  
 ENGINEERS  
 CHICAGO, ILLINOIS  
 DATE JULY 1960 SHEET NO. 6

Designed by: A.K.  
 Drawn by: T.L.  
 Checked by: J.M.

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLAN - L&N RR BRIDGE 06

SCALE: NONE SHEET NO. 7 OF 26 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/70	82-IDM	ST. CLAIR	35	16
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76F29	

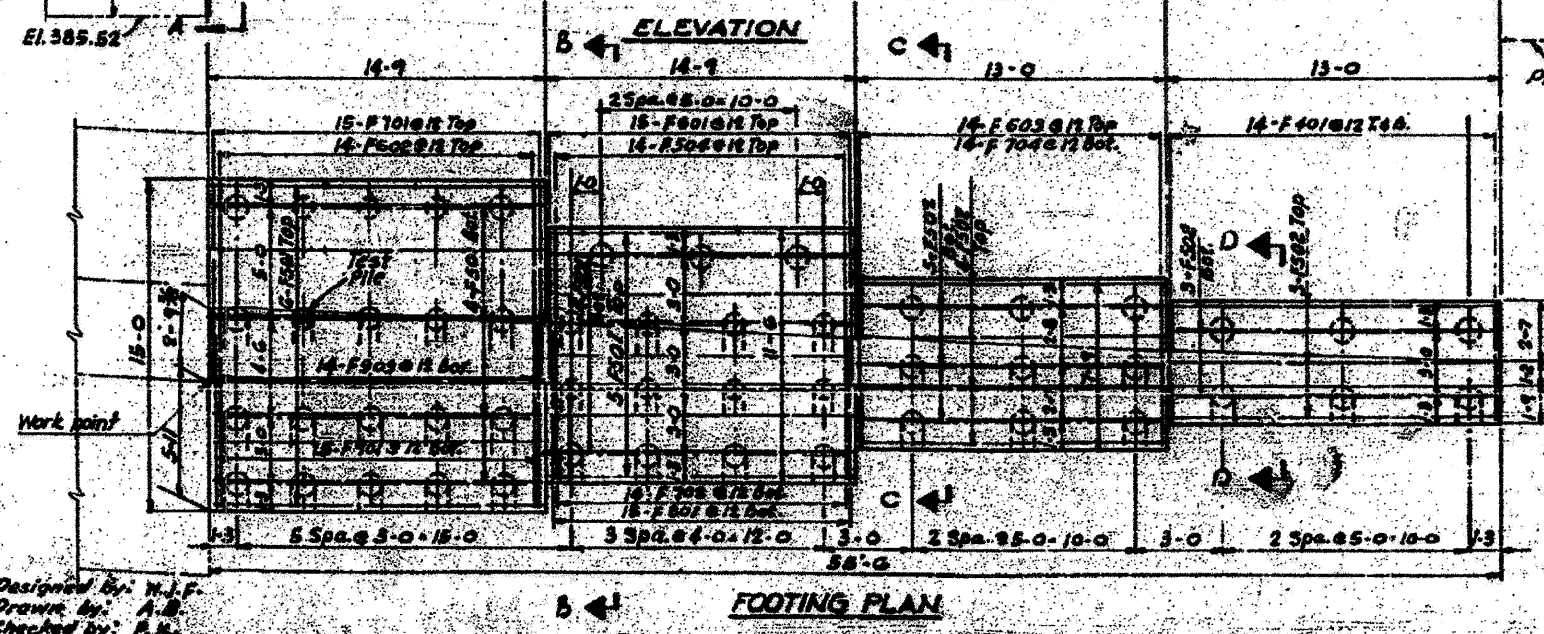
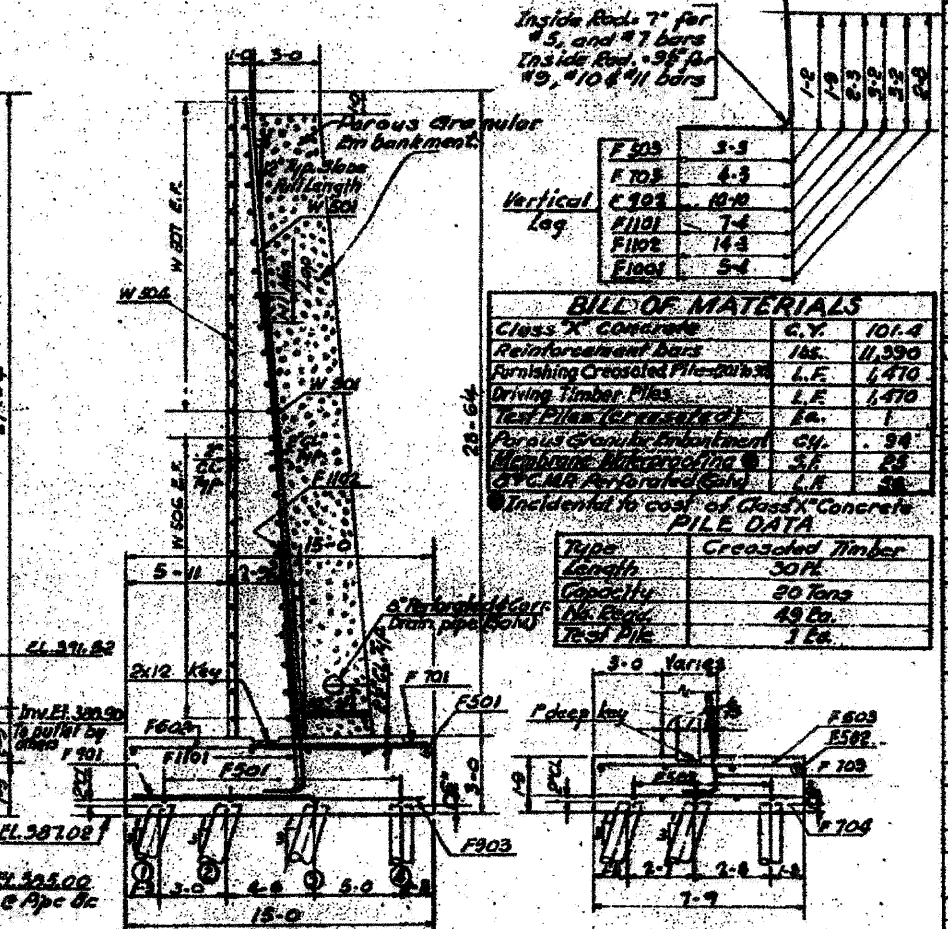
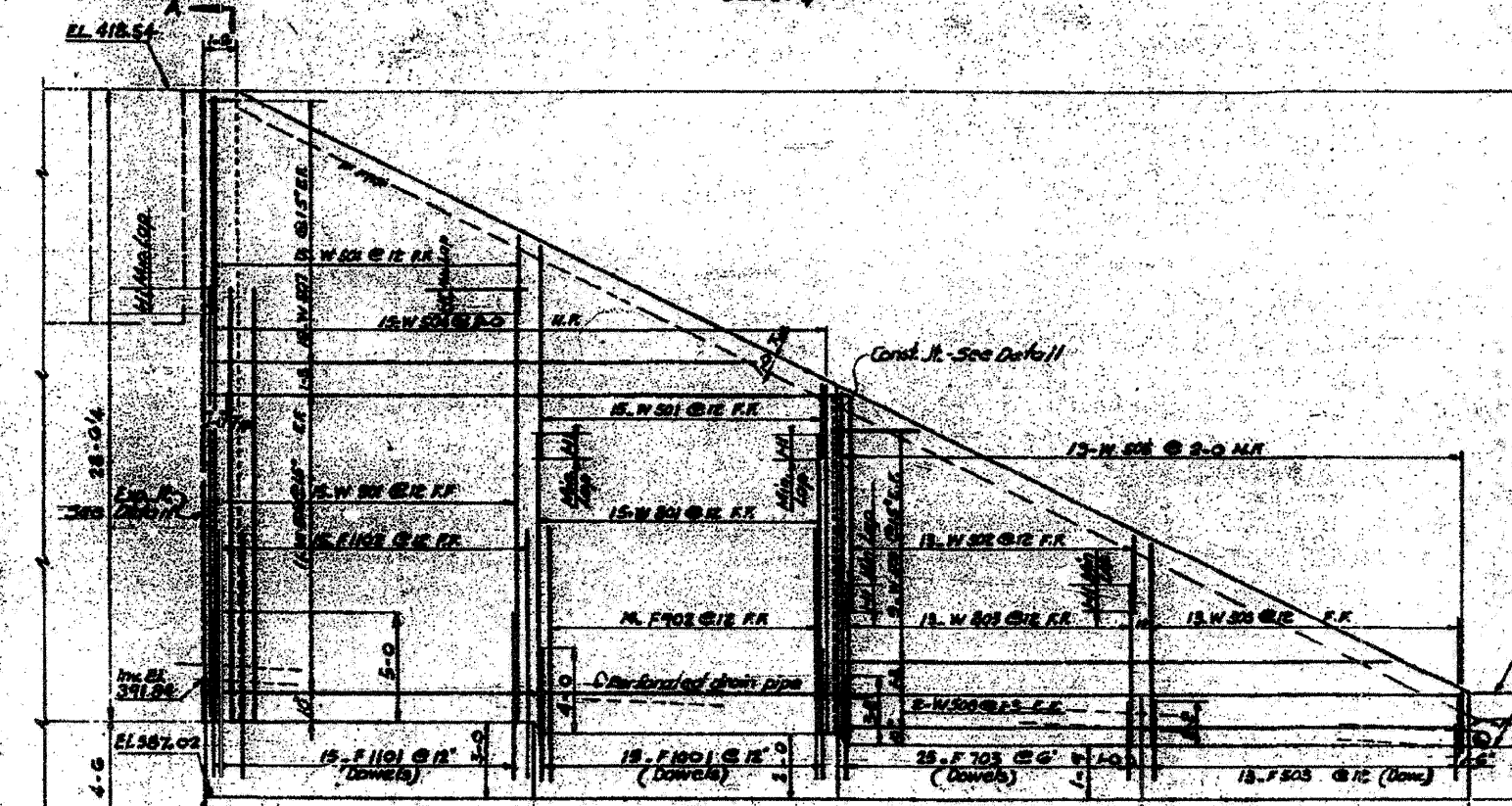
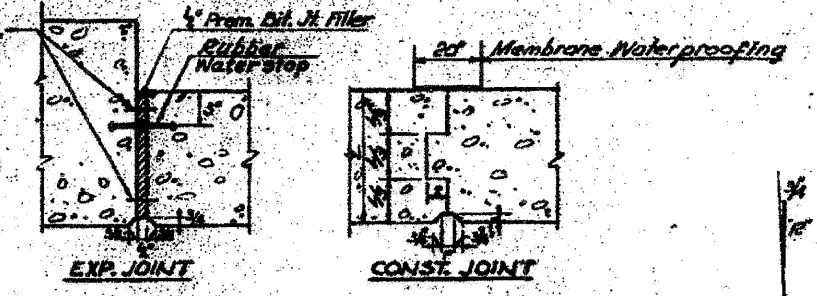
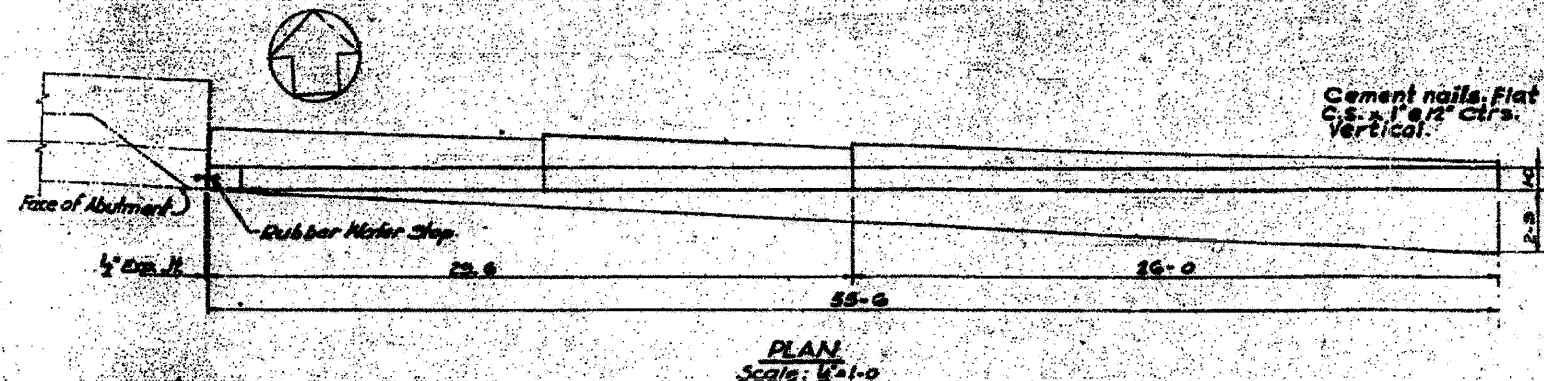
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USER NAME = eearso  
 DESIGNED OP  
 DRAWN OP  
 CHECKED DBM  
 DATE 11-23-11

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -



PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F&E 1061-234	51-061	ST. CLAIR	35	27
DATE: JULY 1990 CHICAGO, ILLINOIS SHEET NO. 7				



**BAR SCHEDULE**

Mark	No. Req.	Size	Length	Shape
F 401	28	4	52	
F 501	19	5	14-6	
F 502	13	5	18-9	
F 503	13	5	4-2	
F 504	14	5	11-9	
F 601	15	6	7-0	
F 602	14	6	14-9	
F 603	14	6	7-6	
F 701	15	7	9-0	
F 702	14	7	11-3	
F 703	26	7	5-8	
F 704	14	7	7-6	
F 801	15	8	7-9	
F 802	14	8	9-1	
F 803	14	8	16-9	
F 901	15	10	7-8	
F 1101	15	11	10-1	
F 1102	18	11	17-0	

**Vertical Lag**

F 505	5-5
F 705	4-3
C 901	10-10
F 1101	7-4
F 1102	14-3
F 1103	5-4

**BILL OF MATERIALS**

Class X Concrete	C.Y.	101.4
Reinforcement Bars	165	11,390
Forming Creosoted Pile-Drifts	L.F.	1,470
Driving Timber Piles	L.F.	1,470
Test Piles (Represented)	L.F.	1
Porous Granular Embankment	CY.	94
Membrane Waterproofing	S.F.	23
C.V.C.M.R. (Grouted Only)	L.R.	20

Incidental to cost of Class X Concrete

**PILE DATA**

Type	Creosoted Timber
Length	50 FT.
Capacity	20 Tons
No. Piles	49 Piles
Test Pile	3 Piles

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BLDGS.  
DIVISION OF HIGHWAYS  
CITY OF EAST ST. LOUIS  
**EAST ST. LOUIS EXPRESSWAY**  
L & N R.R. OVER WEST BOUND EXPWAY,  
RAMP 1, EAST BOUND EXPWAY AND RAMP 1  
NORTHEAST WINGWALL  
H. W. LOCHNER, INC.  
ENGINEERS  
DATE JULY 1990 CHICAGO, ILLINOIS SHEET NO. 7

NOTES  
For General Notes See SH. 1  
For Location See SH. 2

Designed By: H.J.F.  
Drawn By: A.B.  
Checked By: R.H.

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USER NAME = searsb  
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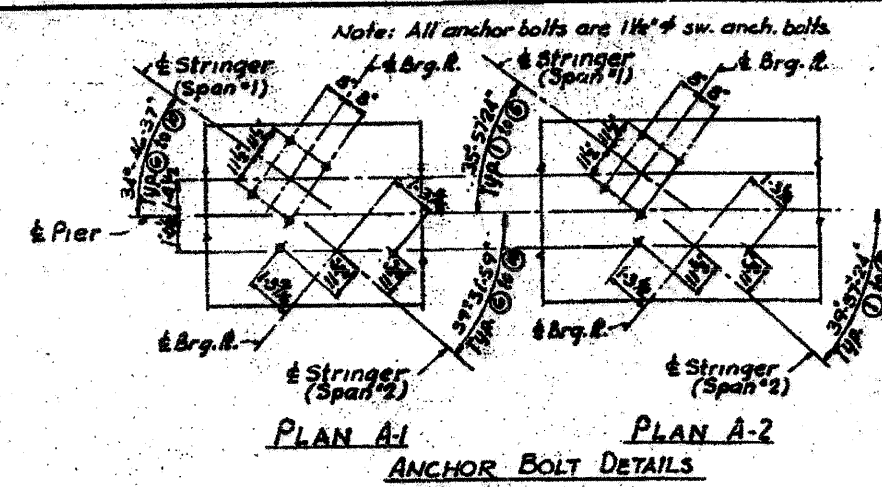
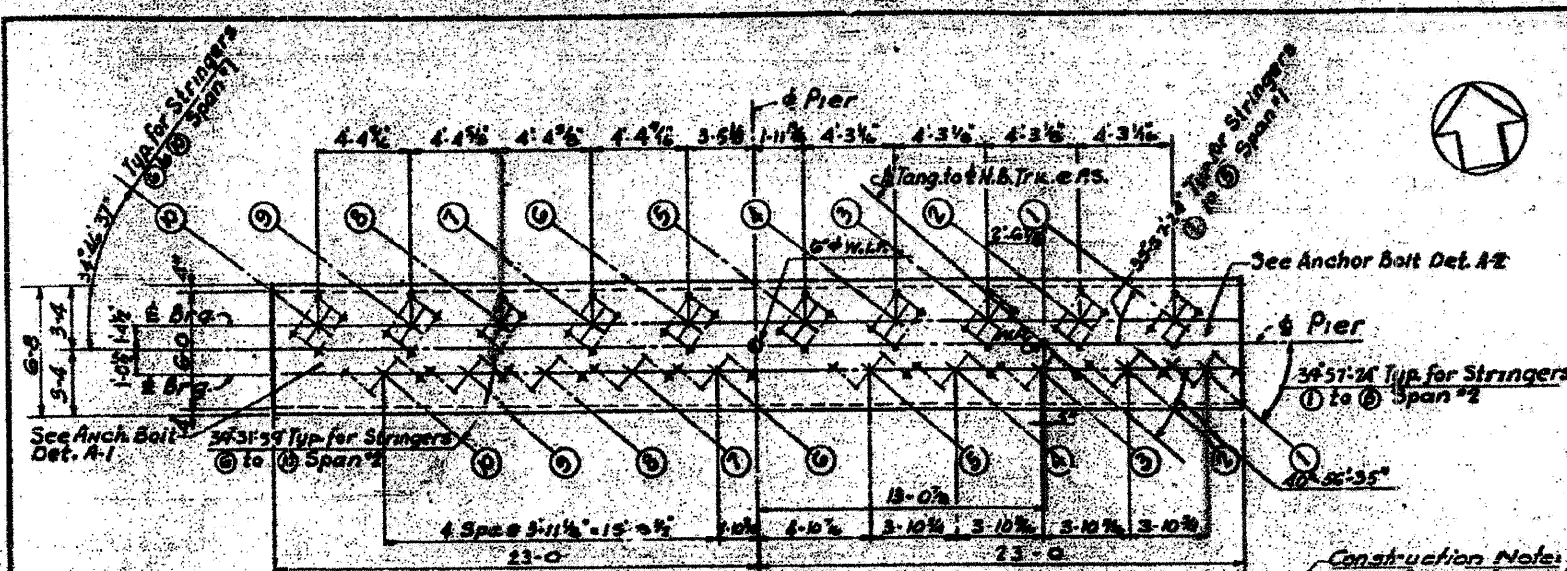
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DRAWN	OP	REVISIONS
CHECKED	DBM	REVISIONS
DATE	11-23-11	REVISIONS

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLAN - L&N RR BRIDGE 07

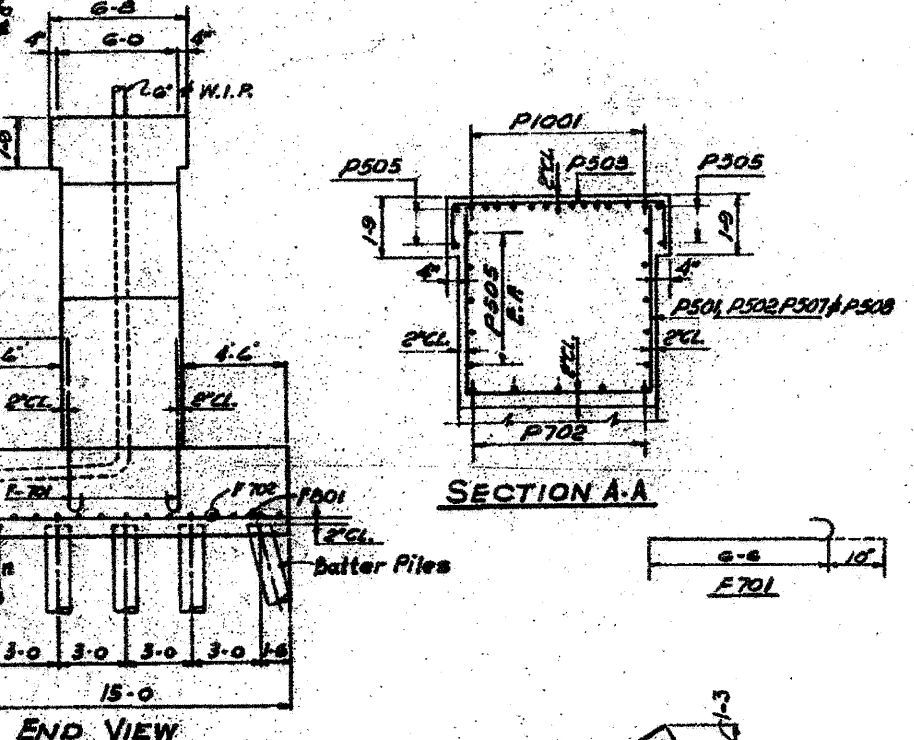
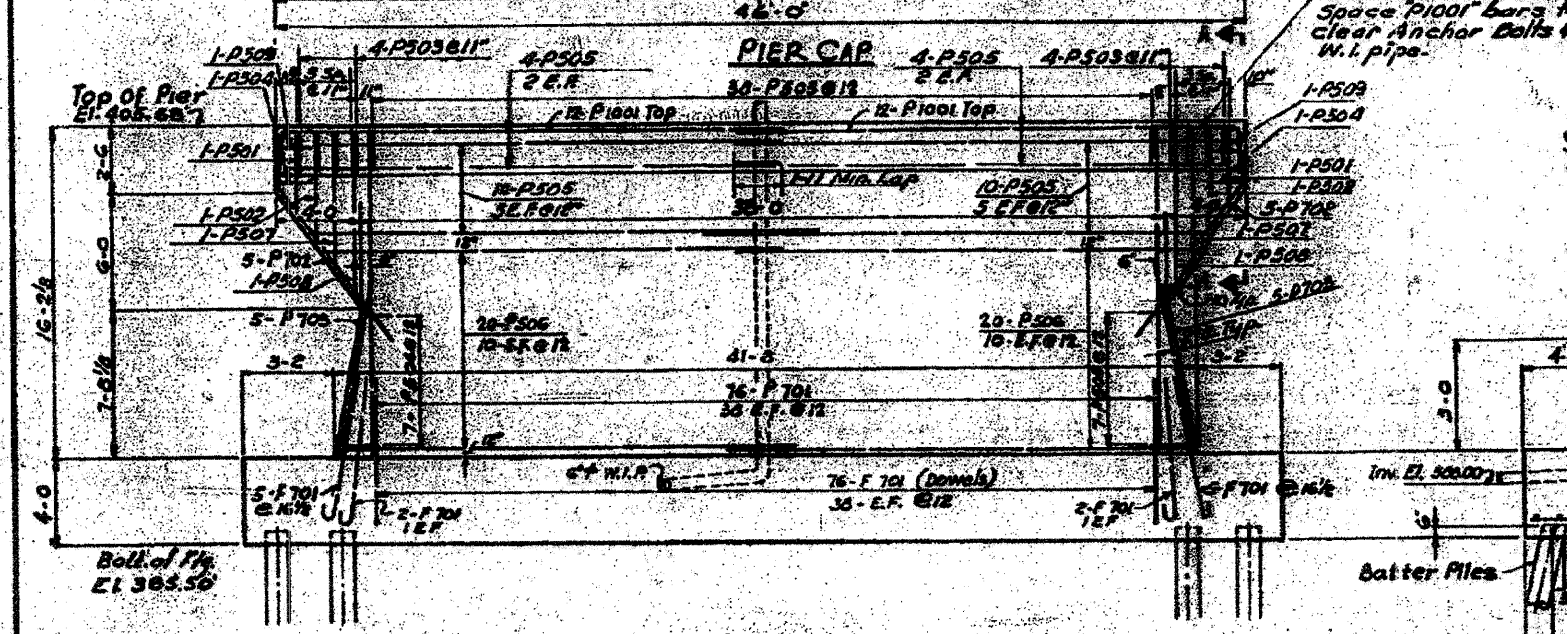
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F&E R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/701	82-10M	ST. CLAIR	35	17
CONTRACT NO. 76F29				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

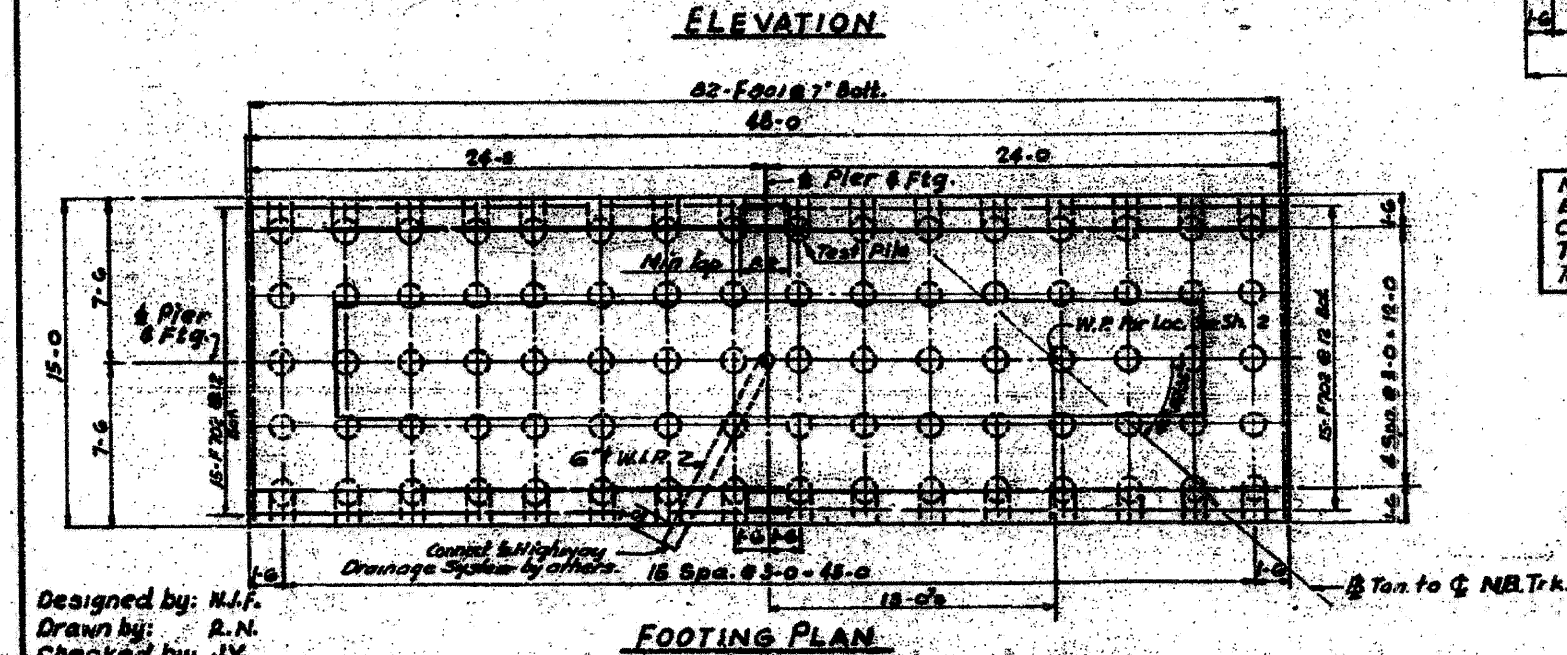


MARK	QTY	UNIT	REMARKS
FAS-70	150	SP	CLAMP

Mark	No. Req'd	Size	Length	Shape
F 701	90	#7	7'-4"	U
F 702	30	#7	25'-1"	U
F 801	82	#5	14'-6"	U
P 501	2	#5	12'-2"	U
P 502	2	#5	15'-0"	U
P 503	46	#5	5'-2"	U
P 504	16	#5	6'-0"	U
P 505	20	#5	23'-10"	U
P 506	40	#5	21'-3"	U
P 507	2	#5	17'-8"	U
P 508	2	#5	20'-6"	U
P 509	2	#5	8'-8"	U
P 701	76	#7	15'-0"	U
P 702	10	#7	11'-8"	U
P 703	10	#7	10'-3"	U
P 1001	24	#10	25'-1"	U



Item	Quantity	Unit
Class X Concrete	CU	250
Reinforcement Bars	Ton	13,400
Furnishing Concrete Piles	LF	3,635
Driving Concrete Piles	LF	3,635
Test Pile (Concrete)	ea.	1

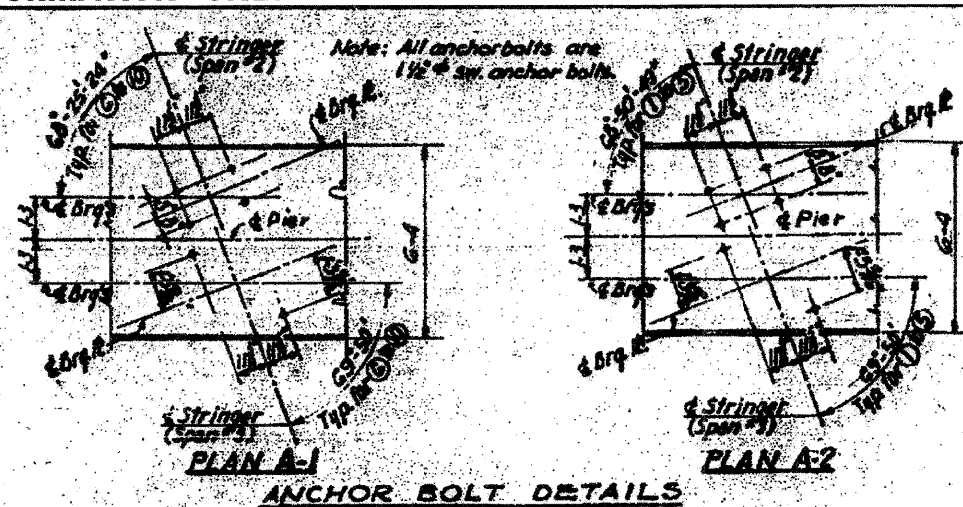
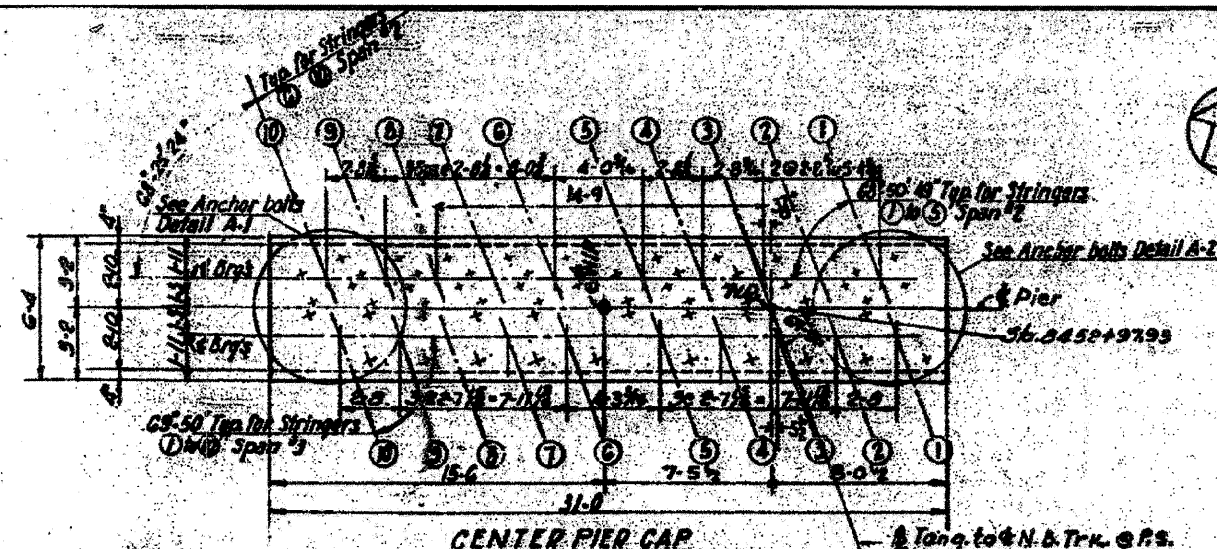


Designed by: N.J.F.  
 Drawn by: R.N.  
 Checked by: J.V.

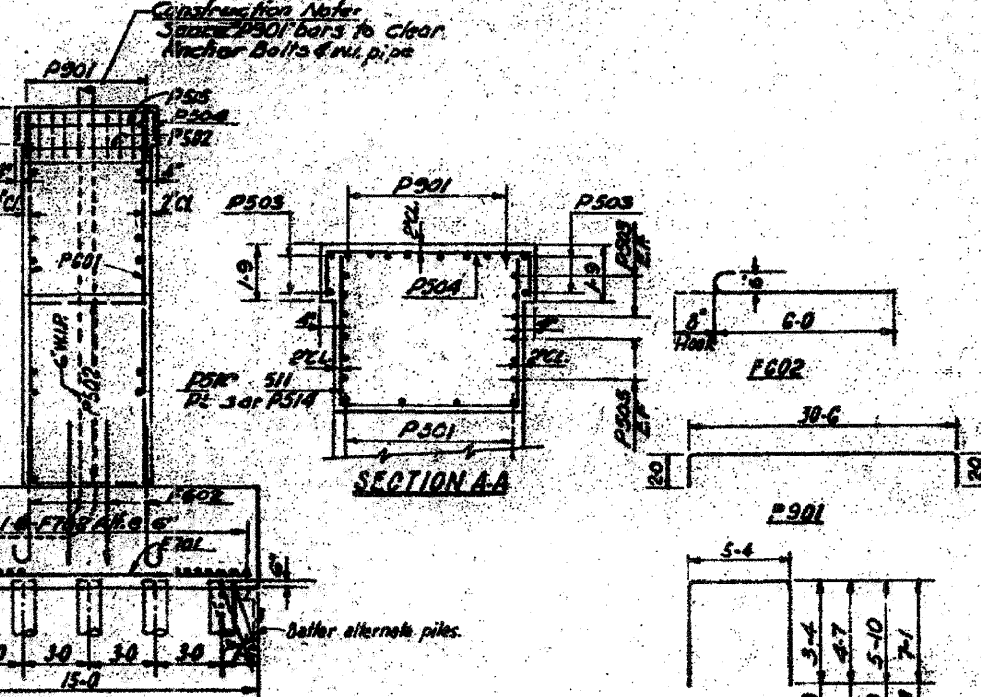
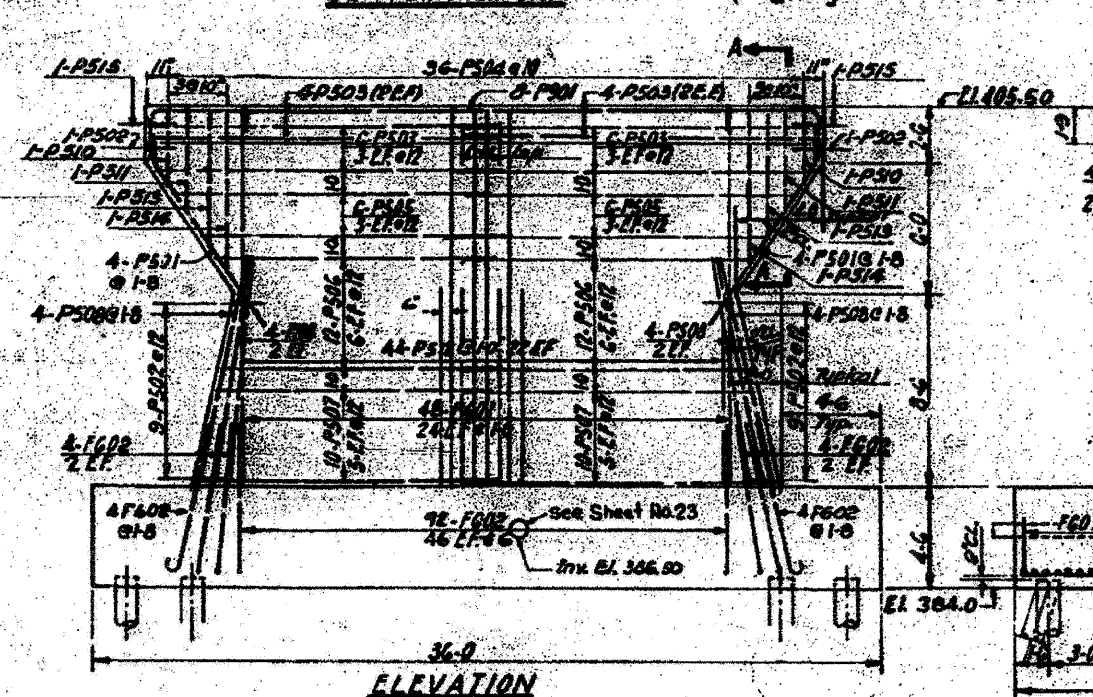
NOTES  
 For general notes see sh. #1  
 For Location see sh. #2  
 For Drainage see sh. #23  
 Care shall be taken in placing reinforcement bars so as to clear anchor bolts.

STATE OF ILLINOIS  
 DEPARTMENT OF PUBLIC WORKS & BLDGS.  
 DIVISION OF HIGHWAYS  
 &  
 CITY OF EAST ST. LOUIS  
**EAST ST. LOUIS EXPRESSWAY**  
 L & N R.R. OVER WESTBOUND EXPWAY, BR  
 RAMP "L", EASTBOUND EXPWAY AND RAMP "N"  
 NORTH PIER  
 H. W. LOCHNER, INC.  
 ENGINEERS  
 CHICAGO, ILLINOIS  
 DATE JULY 1960  
 SHEET NO. 8

PROJECT NO.	SECTION	COUNTY	SHEET NO.
FA-701-121	82-10M	ST. CLAIR	35
SHEET NO. 7 OF 26 SHEETS			



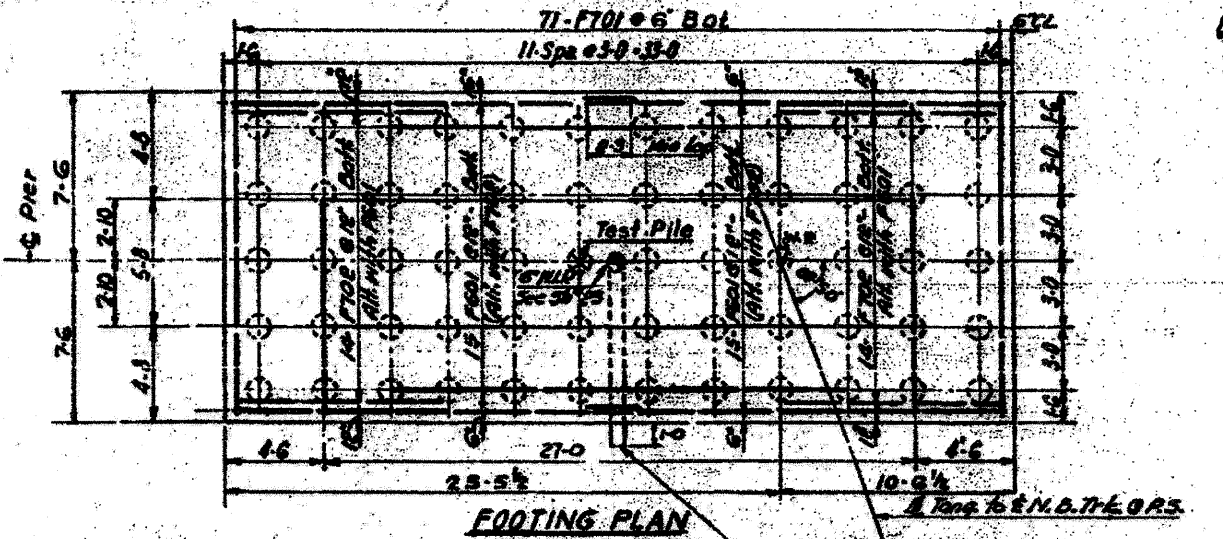
BAR LIST				
Mark	No. Qty	Size	Length	Shape
F601	30	2"	19-0	—
F602	108	6"	6-0	—
F701	71	7"	19-0	—
F702	28	7"	10-3	—
P501	8	8"	10-0	—
P502	20	8"	8-0	—
P503	20	8"	16-3	—
P504	36	8"	8-10	—
P505	12	8"	16-9	—
P506	24	8"	13-1	—
P507	28	8"	14-1	—
P508	16	8"	10-3	—
P510	2	8"	21-0	—
P511	2	8"	14-6	—
P512	14	8"	8-6	—
P513	8	8"	17-0	—
P514	2	8"	15-0	—
P515	2	8"	8-3	—
P601	48	6"	16-0	—
P901	8	9"	36-6	—



BILL OF MATERIALS		
Class	Qty	Unit
Class A Concrete	1065	cu yd
Reinforcement bars	165	lbs
Furnishing concrete piles	59	LF
Driving concrete piles	17-0	LF
Test Pile (Concrete)	1	ea

**Notes**  
See Sh#1 for Gen Notes  
See Sh#2 for Location  
See Sh#2,3 for Drainage Details  
Care shall be taken in placing reinforcement bars so as to clear anchor bolts.  
For pile details see Sheet No. 26

PILE DATA	
Type:	Concrete Piles
Estimated Length	40
Capacity	40 Tons
No. Required	59
Test Pile	1



Designed by: E.M.  
Drawn by: N.C.  
Checked by: J.M.

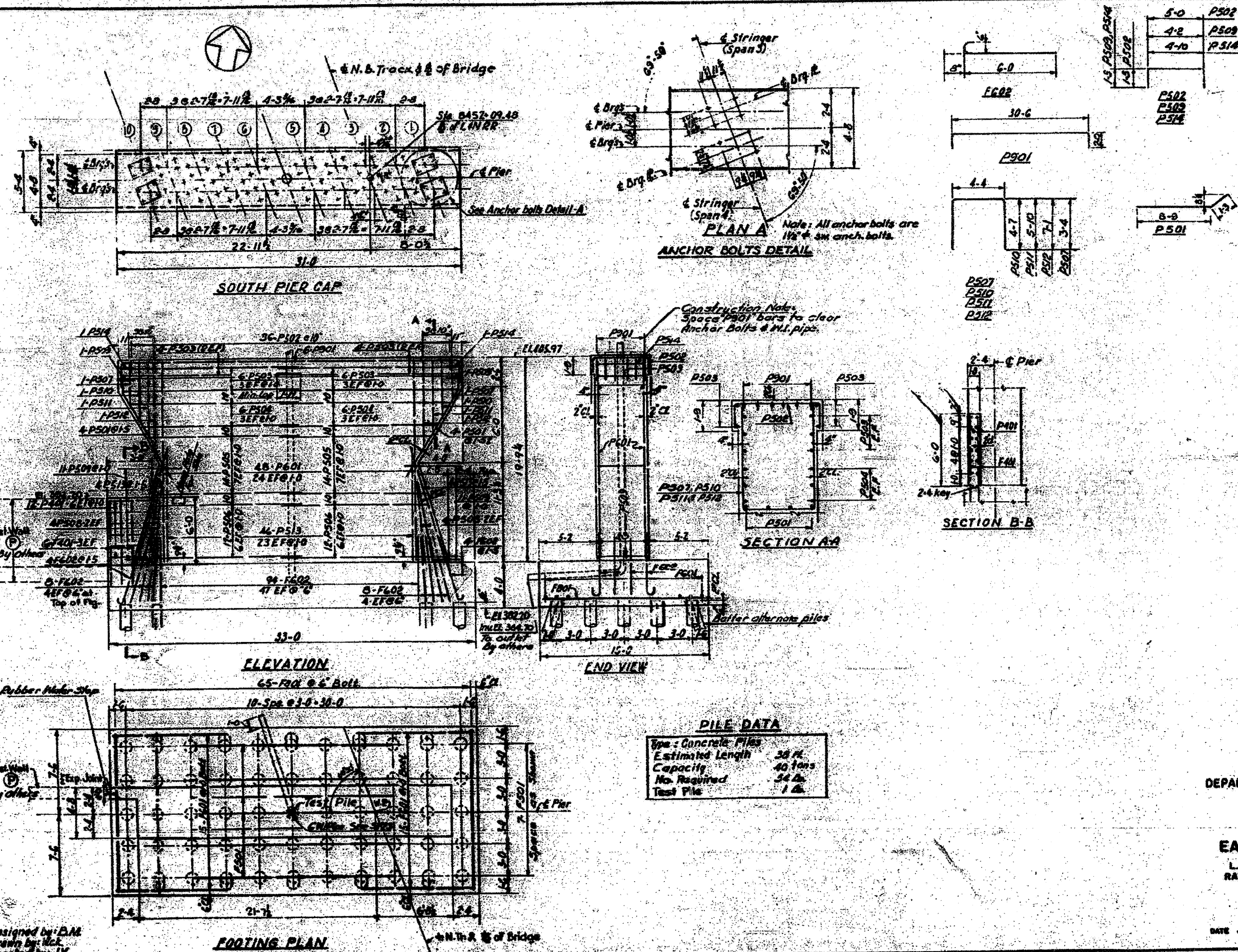
STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BLDGS.  
DIVISION OF HIGHWAYS  
CITY OF EAST ST. LOUIS  
**EAST ST. LOUIS EXPRESSWAY**  
L. & N. R.R. OVER WEST SOUND EXPWAY,  
RAMP "L", EAST SOUND EXPWAY AND RAMP "Y"  
CENTER PIER  
H. W. LOCHNER, INC.  
ENGINEERS  
CHICAGO, ILLINOIS  
DATE JULY 1960 SHEET NO. 6

BAR SCHEDULE				
Mark	Nr. Bgd	Size	Length	Shape
F501	7	5	18-0	
F401	6	4	7-10	
F301	65	8	14-6	
F201	30	6	10-3	
F101	110	6	6-8	
P501	8	5	10-0	
P502	36	5	7-0	
P503	20	5	14-6	
P504	12	5	15-0	
P505	28	5	13-0	
P506	24	5	18-6	
P507	2	5	11-0	
P508	6	5	9-0	
P509	24	5	6-8	
P510	2	5	15-6	
P511	2	5	15-0	
P512	2	5	15-6	
P513	54	5	12-0	
P514	2	5	7-4	
P601	48	6	19-0	
P701	6	9	34-6	
P401	12	4	4-8	

BILL OF MATERIALS		
Class 'X' Concrete	CY	100.0
Reinforcement Bars	Lbs	9,250
Furnishing concrete piles	LF	2,050
Driving concrete piles	LF	2,050
Test Pile (Concrete)	LF	1

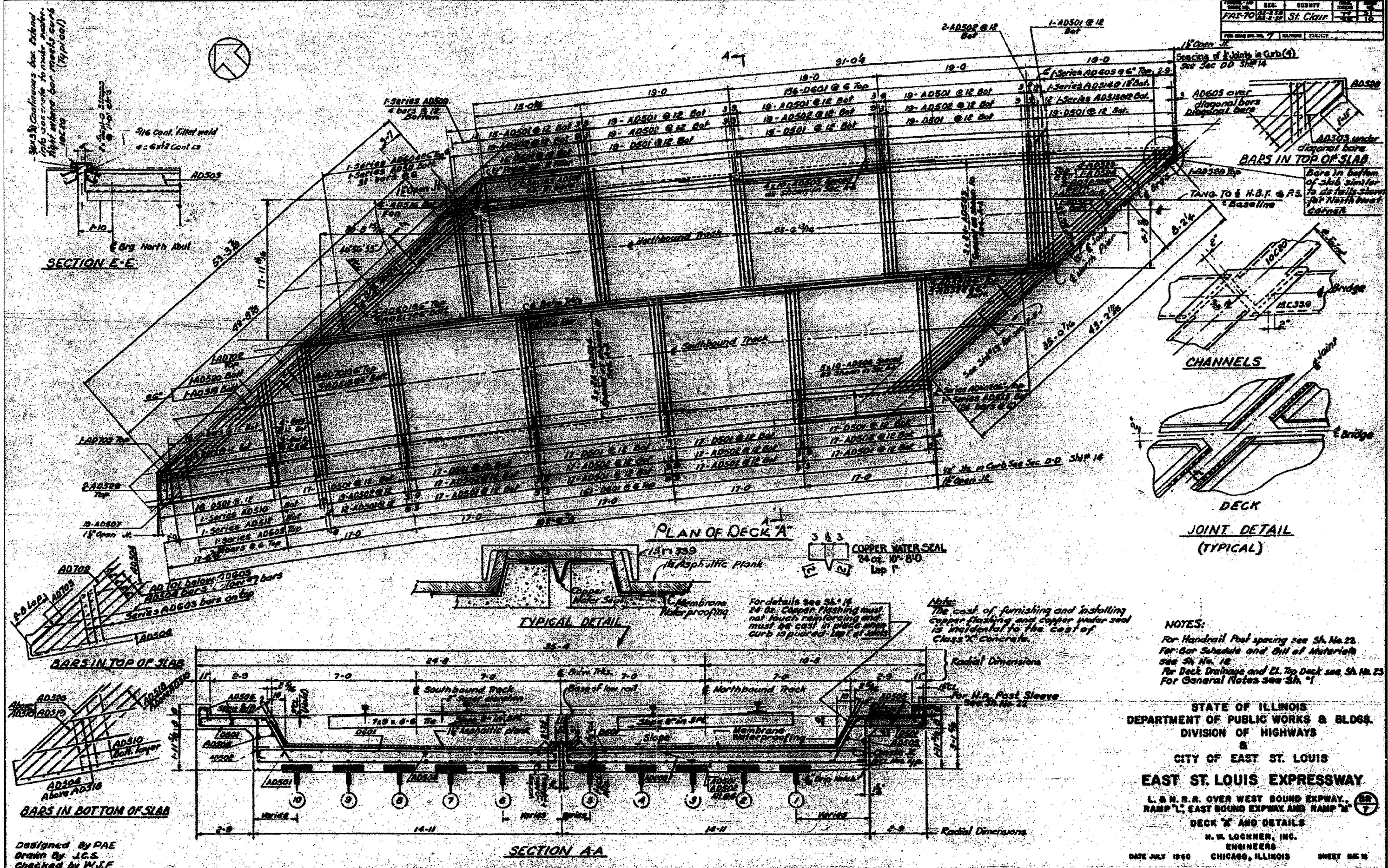
**NOTES:**  
 See Sheet #1 for Gen Notes  
 See Sheet #2 for Location  
 See Sheet #23 for Drainage Details  
 See Sheet #7 for Exp. Joint details.  
 Care shall be taken in placing reinforcement bars so as to clear anchor bolts.  
 For pile details see Sh. #24

STATE OF ILLINOIS  
 DEPARTMENT OF PUBLIC WORKS & BLDGS.  
 DIVISION OF HIGHWAYS  
 &  
 CITY OF EAST ST. LOUIS  
**EAST ST. LOUIS EXPRESSWAY**  
 L & N. R.R. OVER WEST BOUND EXPWAY,  
 RAMP "L", EAST BOUND EXPWAY AND RAMP "M"  
 SOUTH PIER  
 H. W. LOCHNER, INC.  
 ENGINEERS  
 DATE JULY 1960 CHICAGO, ILLINOIS SHEET NO. 10



PILE DATA	
Type	Concrete Piles
Estimated Length	30 ft.
Capacity	40 tons
No. Required	34 No.
Test Pile	1 No.

PROJECT NO.	82-10M	SHEET NO.	12	TOTAL SHEETS	26
SECTION	82-10M	COUNTY	ST. CLAIR	CONTRACT NO.	76F29
DATE	JULY 1960	ENGINEERS	H. W. LOGGNER, INC.	CHICAGO, ILLINOIS	SHEET 12 OF 26



**NOTES:**  
 For Handrail Post spacing see Sh. No. 22.  
 For Car Schedule and Bill of Materials see Sh. No. 18.  
 For Deck Drainage and El. Top Deck see Sh. No. 23.  
 For General Notes see Sh. 1.

STATE OF ILLINOIS  
 DEPARTMENT OF PUBLIC WORKS & BLDGS.  
 DIVISION OF HIGHWAYS  
 &  
 CITY OF EAST ST. LOUIS  
**EAST ST. LOUIS EXPRESSWAY**  
 L. & N. R. R. OVER WEST BOUND EXPWAY,  
 RAMP "L", EAST BOUND EXPWAY AND RAMP "T"  
**DECK "A" AND DETAILS**  
 H. W. LOGGNER, INC.  
 ENGINEERS  
 CHICAGO, ILLINOIS

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		CHECKED DBM	REVISED -			SCALE: NONE	SHEET NO. 12 OF 26 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	(ILLINOIS) FED. AID PROJECT
		DATE 11-23-11	REVISED -								

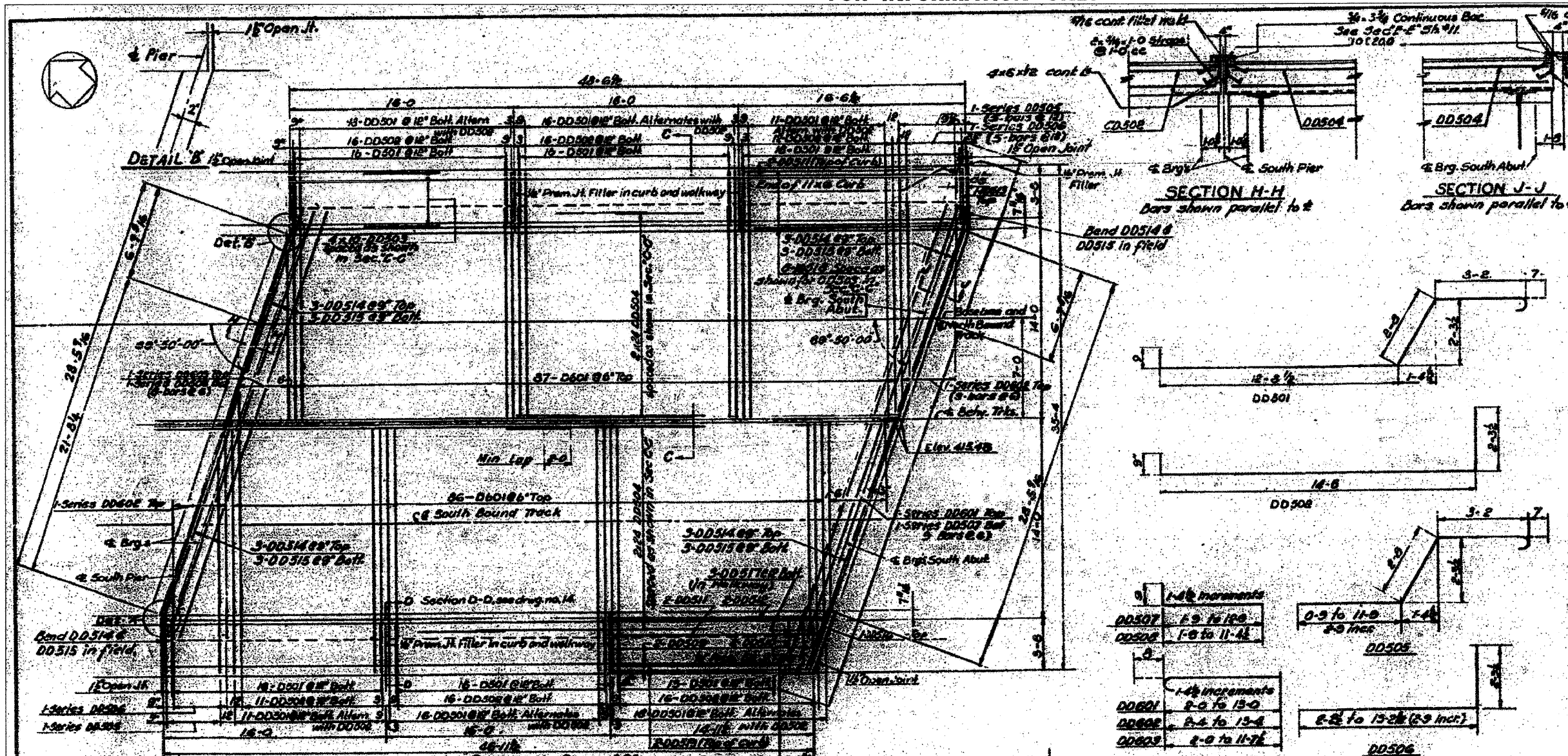








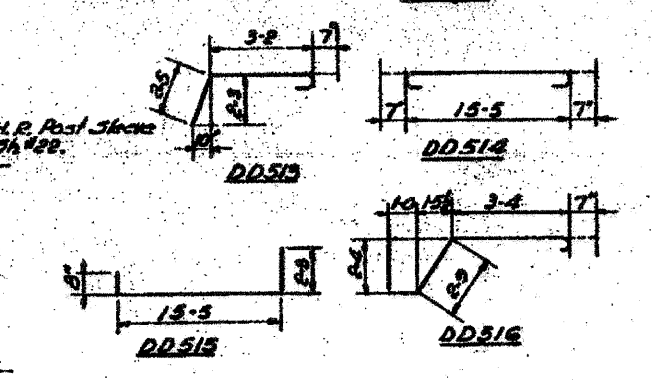
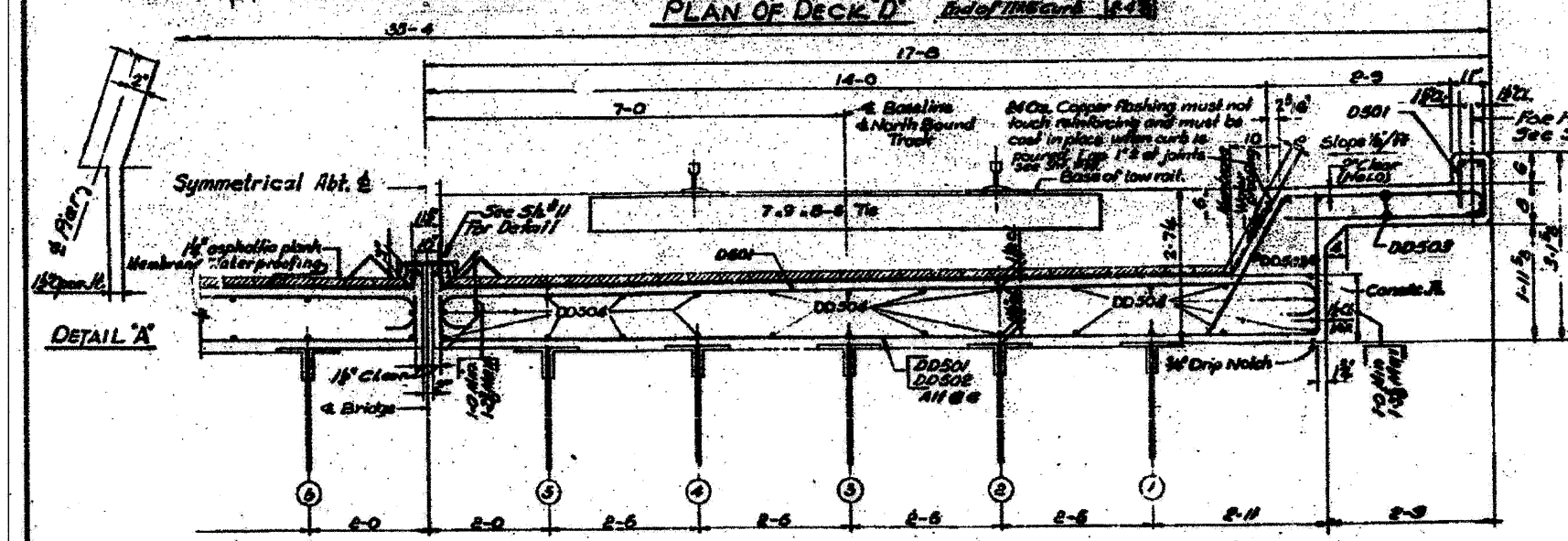
PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-70112	82-10M	ST. CLAIR	35	25
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				



Mark	No. Req.	Size	Length	Shops
DD501	85	#3	19-11	
DD502	67		17-6	
DD503	40		15-8	
DD504	96		25-0	
DD505	2-Series as 5 bars		7-2 1/2 to 2-9 Incr 2-9	
DD506	2-Series as 5 bars		4-6 1/2 to 4-9 Incr 2-9	
DD507	1-Series as 2 bars		8-6 to 11-6 Incr 1-6	
DD508	1-Series as 2 bars		2-6 to 11-1 Incr 1-6	
DD509	2		14-9	
DD510	2		15-1	
DD511	4		15-7	
DD512	2		15-10	
DD513	1		5-7	
DD514	1		6-2	
DD515	12		16-7	
DD516	12		18-4	
DD517	1		7-8	
DD518	3		3-6	
DD519	5		16-3	
DD520	2	#5	12-3	
DD601	173	#6	15-0	
DD602	1-Series 9 bars		2-8 1/2 to 2-9 Incr 1-4	
DD603	2-Series 9 bars ca		3-6 1/2 to 3-9 Incr 1-4	
DD604	1-Series 8 bars	#6	2-8 1/2 to 2-9 Incr 1-4	

For Detail of DD501 & DD601 See Sh. #12.

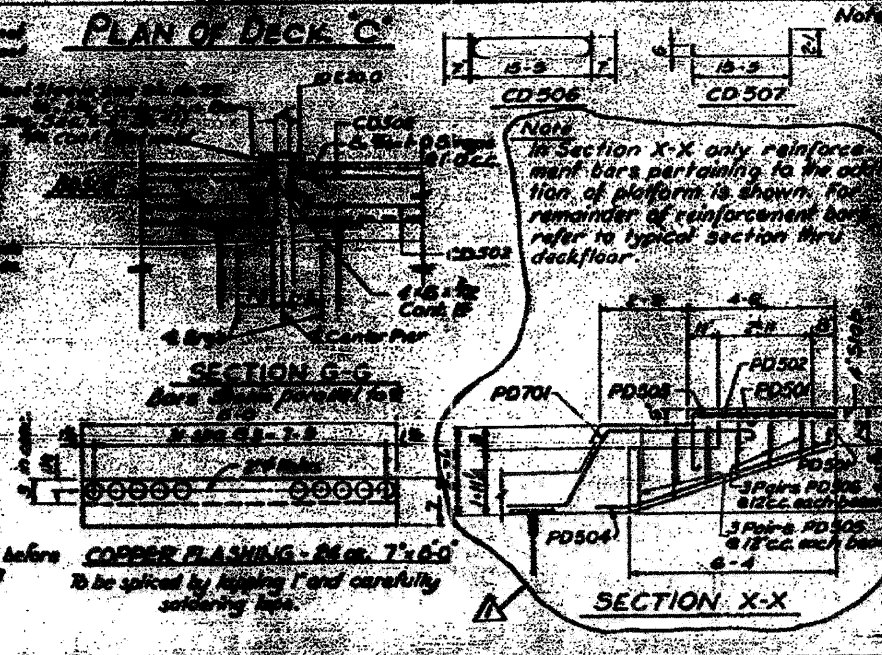
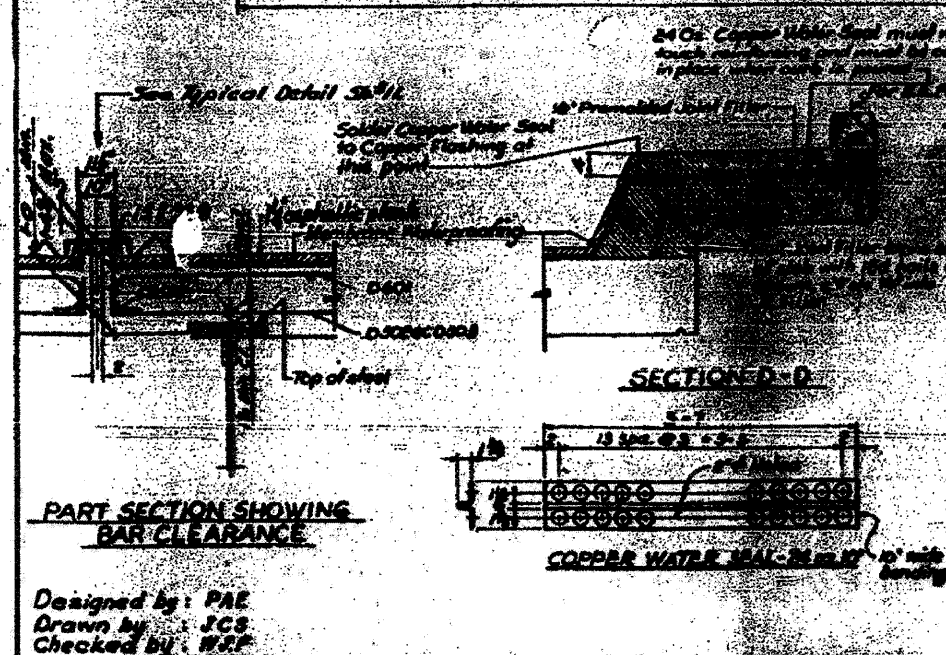
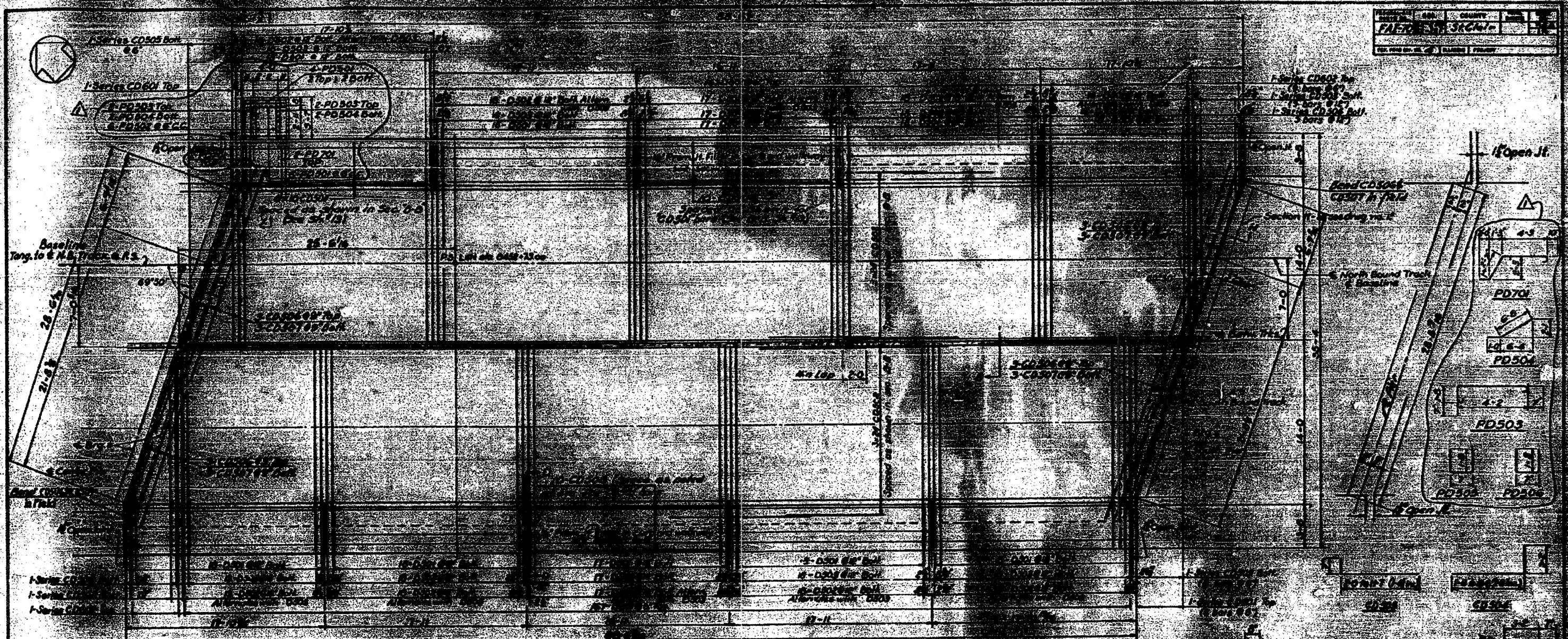
**NOTES**  
 For handrail post spacing see Sh. #22  
 For Bill of Material See Sheet #12  
 For Deck Drainage and El. Top Deck see Sh. #23  
 For General Notes see Sh. #1



Designed by: PAE  
 Drawn by: JCS  
 Checked by: WJP

STATE OF ILLINOIS  
 DEPARTMENT OF PUBLIC WORKS & BLDGS.  
 DIVISION OF HIGHWAYS  
 CITY OF EAST ST. LOUIS  
**EAST ST. LOUIS EXPRESSWAY**  
 L. & N. R.R. OVER WEST BOUND EXPWAY,  
 RAMP "L", EAST BOUND EXPWAY AND RAMP "M"  
 DECK "D" AND DETAILS  
 H. W. LOCHNER, INC.  
 ENGINEERS  
 DATE: JULY 1960 CHICAGO, ILLINOIS SHEET NO. 15

PROJECT NO.	400	COUNTY	ST. LOUIS
DATE	7/22/04	DESIGNED BY	JCS
DRAWN BY		DBM	
CHECKED BY		WFF	



**SCHEDULE**

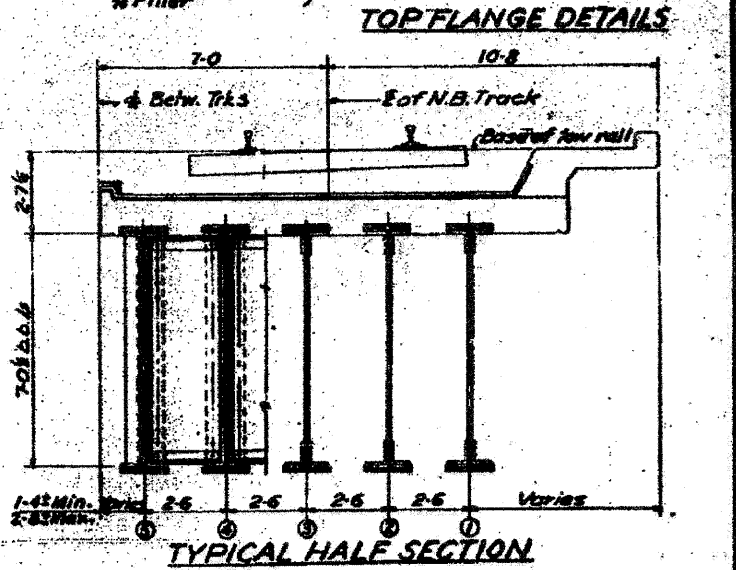
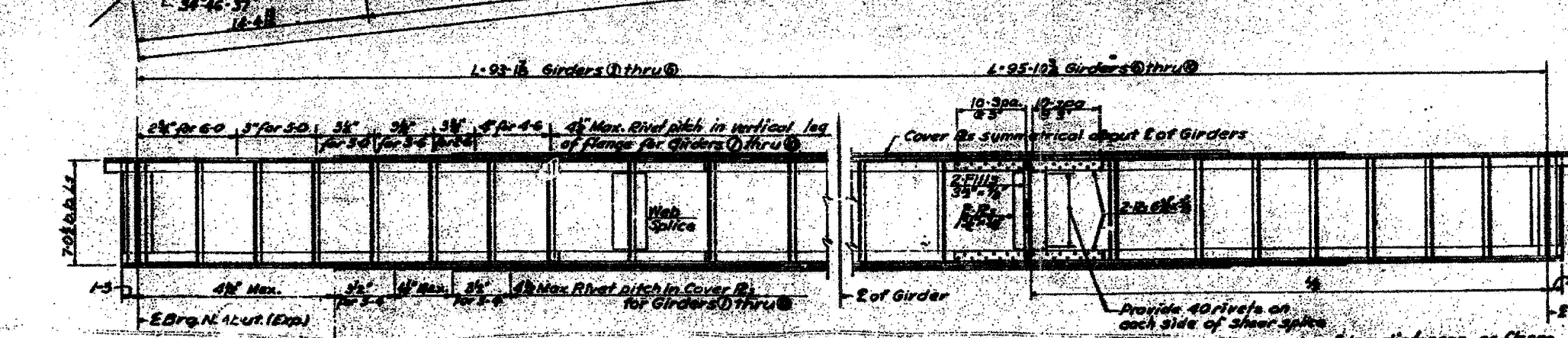
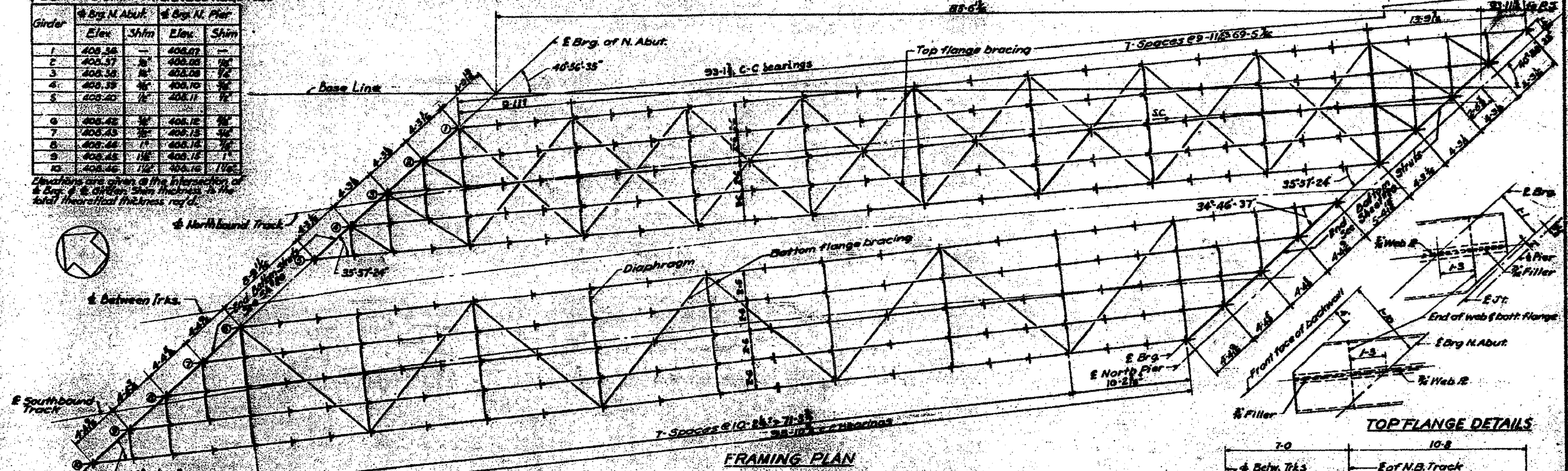
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DATE	DES.	COUNTY	TOTAL SHEETS	SHEET NO.
FEB-70	SE	ST. CLAIR	35	27
NO. SHEETS	7	NO. SHEETS	17	NO. SHEETS

ELEVATIONS BACK OF BOTTOM FLANGE ANGLES & BEARING SHIM THICKNESS REQUIRED

Girder	E Brg. N. Abut.		E Brg. N. Pier	
	Elev.	Shim	Elev.	Shim
1	408.38	—	408.07	—
2	408.37	1/8"	408.08	1/8"
3	408.38	1/8"	408.08	1/8"
4	408.39	1/8"	408.10	1/8"
5	408.40	1/8"	408.11	1/8"
6	408.42	1/8"	408.12	1/8"
7	408.43	1/8"	408.13	1/8"
8	408.44	1/8"	408.14	1/8"
9	408.45	1/8"	408.15	1/8"
10	408.46	1/8"	408.16	1/8"

Elevations are given @ the intersection of E Brg. & Girders. Shim thickness is the total theoretical thickness req'd.



**DEAD LOAD PER TRACK**

Ballast, Ties & Rails	2.19%
Slab, Waterproof Walk	3.00%
	5.19%
D.L.	Gir. 1 thru 5 1.15%
D.L. ecc. 5/16"	1.15%
D.L. Steel	.78%
	2.93%
	2.64%

**IMPACT**

Vertical (50-W)	Gir. 1 thru 5 42.7%
Rolling (20-W)	Gir. 1 thru 5 20.0%
	Gir. 6 thru 10 62.7%
	Gir. 6 thru 10 61.6%

**MOMENTS & SHEAR FOR GIRDER NO. 116**

End Shear	Max. Moment
Gir. 1	Gir. 1
DL 124.1K	92.1K DL 2916"
LL 102.5K	104.1K LL 2077"
Imp. 636K	64.0K LL ecc. 324"
Centri. 352K	36.2K Imp. 1431"
Total 325.9K	206.4K Centri. 723"
Total Frame Transf. 216.5K	303K Total 7471"
Total 355.5K	316.7K

**CENTRIFUGAL**

2 1/2" super  
1.755(2 1/2 \* 3) = 9.65%

**SECTION ALL GIRDERS BOTH FLANGES**

Gross	Net
1/2 Web 8" x 1/2" = 460	460
2 Ls 8" x 1/2" = 2646	2252
1/2 L 17" x 1/2" = 1488	1291 Full lg. top & bott.
1/2 L 17" x 1/2" = 1488	1291 60-3/4" Gir. 1 to 5
1/2 L 17" x 1/2" = 1488	1291 51-0/4" Gir. 1 to 5
Total 75.70" Gross	6535" Net

Gross I = 275,865 in<sup>2</sup> Gross S.M. = 6,147 in<sup>3</sup>  
 Net I = 235,369 in<sup>2</sup> Net S.M. = 5,245 in<sup>3</sup>

Allow. Stress = 17,200 psi Gir. 1 thru 5; 16,000 psi Gir. 6 thru 10  
 Unit Stress = Gir. 1 = 17,100 psi  
 Gir. 6 = 13,300 psi

**ADDITIONAL MATERIAL**

Web 8" x 1/2" = 36.75"  
 End Stiff 4 Ls 7-4"  
 Use 20 Rivets per pair  
 2 End Fills 1 1/2"  
 Inter. Stiff. 2 Ls 6-3/4" on fills at Diaphragms. 2 Ls 6-3/4" on fills elsewhere.  
 Cover 2" - Girder 6 to 10  
 2 Ls 17" x 1/2" Full length  
 2 Ls 17" x 1/2" = 69-6  
 2 Ls 17" x 1/2" x 52-0

End Diaphragm & Inter. Diaphragm for 4 bolts 4" x 1/2" = 30 Web.  
 Lateral Ribs & Horizontal Gussets 7/16"  
 Top Lateral 2 Ls 4" x 1/2" = 6 Rivets.  
 Bolt Lateral 1 L 4" x 1/2" = 3 Rivets.  
 End Bottom Stiff 2 Ls 4" x 1/2"  
 Locate Web Splice 6" or near 5" from Max. distance c.c. rivets on outside gage line of cover plates shall be 9"  
 Min. pitch 3", in bottom cover plate near 1/4 of span on account of end section

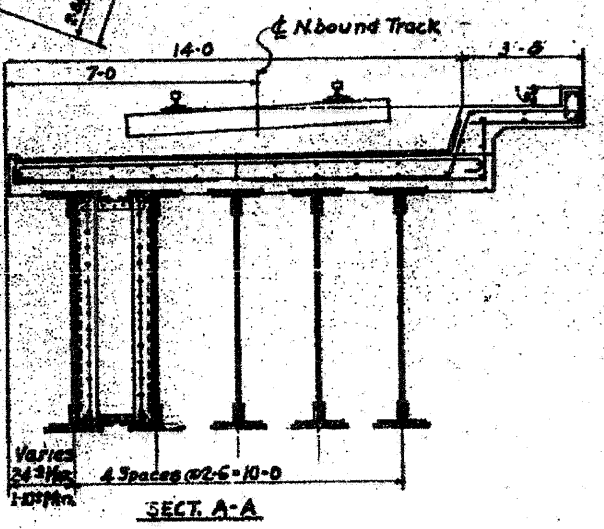
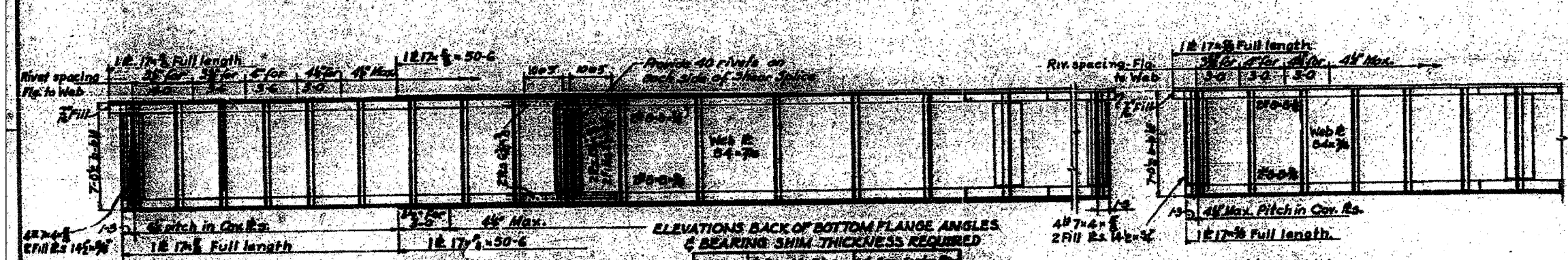
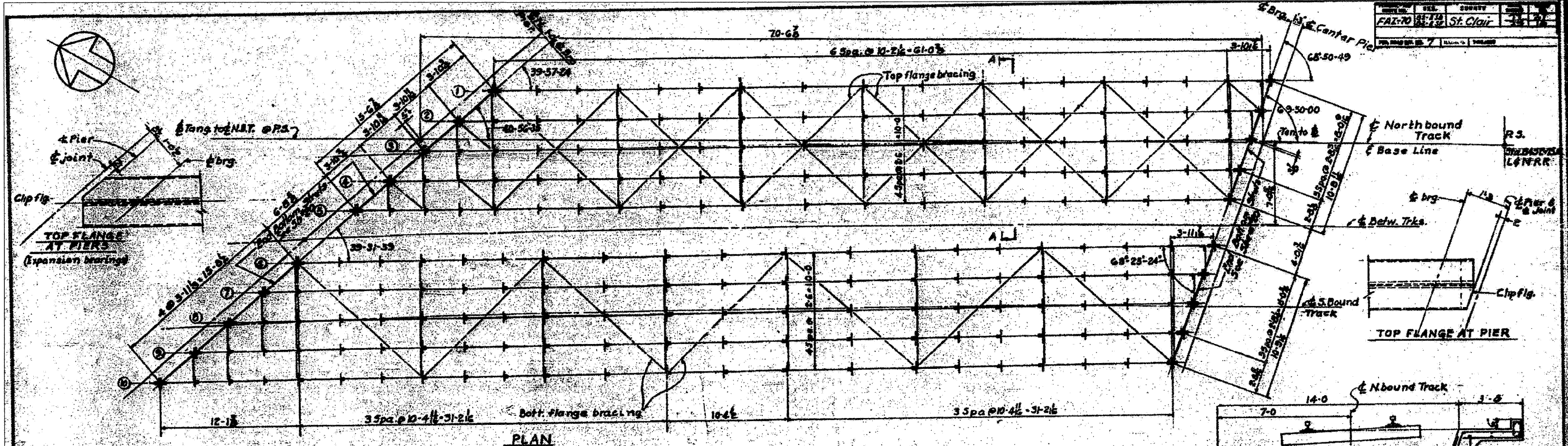
Notes:  
 For details of Diaphragm, Lateral bracing & Connections see sh. no. 20.  
 For details of bearings see sh. no. 21.  
 For General Notes see sh. no. 1.  
 For Framing Notes see sh. no. 1.

Designed by: LK  
 Drawn by: ES  
 Checked by: PK & FAE

STATE OF ILLINOIS  
 DEPARTMENT OF PUBLIC WORKS & BLDGS  
 DIVISION OF HIGHWAYS  
 &  
 CITY OF EAST ST. LOUIS  
 EAST ST. LOUIS EXPRESSWAY

L&N R.R. OVER WEST BOUND EXPWAY.  
 EAST BOUND EXPWAY RAMP "A"  
 FRAMING PLAN SPAN 1  
 H. W. LOCHNER, INC.  
 ENGINEERS  
 CHICAGO, ILLINOIS  
 SHEET NO. 18

PROJECT NO.	SECTION	SHEET NO.
FAZ-70	82-10M	35
COUNTY: ST. CLAIR		
DATE: 11-23-11		



Order	Elev. Shim	Elev. Shim
1	406.08	407.07
2	406.08	407.07
3	406.07	407.06
4	406.06	407.05
5	406.05	407.04
6	406.11	407.10
7	406.12	407.09
8	406.13	407.08
9	406.14	407.07
10	406.15	407.06

Span lengths (C-C bearings)	Span lengths (C-C bearings)
1 66-10 1/2	76-8
2 66-11	70-8 1/2
3 68-11 1/2	80-9
4 70-11 1/2	82-9 1/2
5 72-11 1/2	84-10

Girder No.	No. 8	No. 9	No. 10	No. 11	No. 12
D.L.	95.8	67.6	62.5	58.3	54.5
L.L.	94.6	90.9	86.7	83.2	79.1
Imp.	61.8	60.4	59.1	57.8	54.9
C.F.	0.0	0.0	32.5	0.0	0.0
Total	251.8	218.9	247.6	199.1	188.5

Category	Value
Ballast, Ties & Rail	2.73
Slab, Waterproof & Walk	3.00
Total	5.73
D.L. Girder	1.25
D.L. Sp. Girder	1.50
D.L. Steel	35
Total	2.85

Girders I-5	Girders C-10
Gross	Gross
Net	Net
Total	Total

Girder No.	No. 8	No. 9	No. 10	No. 11	No. 12
D.L.	2003.0	1587.0	1806.0	1079.0	940.0
L.L.	1752.0	1608.0	1454.0	1337.0	1211.0
Imp.	1148.0	1022.0	956.0	926.0	834.0
C.F.	0.0	0.0	550.0	0.0	0.0
Total	4903.0	4217.0	4716.0	3342.0	2975.0

**CENTRIFUGAL**  
1.755(1/3) = 7.9 %

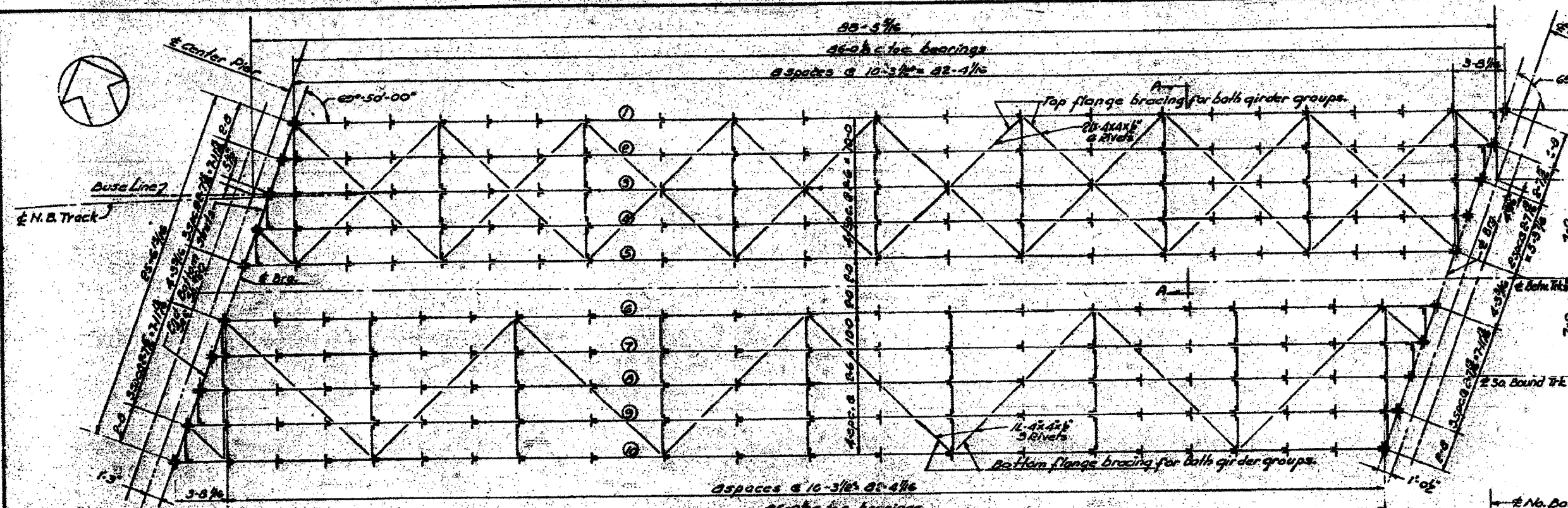
**ADDITIONAL MATERIAL**  
Web 84x70 36.75  
End stiff 4x4x5  
Use 16 Rivets per pair  
2 End Fills 14x14 (see elev)  
Inter. Stiff 2x6x3 1/2 on fills at Diaphragms, 2x6x3 1/2 on fills at all other  
End Bottom Stiff 2x6x4x5 1/2 on 3x4

Category	Value
Gross	13300
Net	10600
Allow. Stress	15000
Unit Stress	1000

**Notes:**  
 1) For details of diaphragms, lateral bracing & connections, see Sh. 20.  
 2) For details of bearings see Sh. 21.  
 3) For Notes see Sh. 1.  
 Max. distance c.c. rivets on outside gage line of cover plates shall be 3d.  
 In bottom cover plate near a span on account of net section Min. pitch 3d.

STATE OF ILLINOIS  
 DEPARTMENT OF PUBLIC WORKS & BLDGS.  
 DIVISION OF HIGHWAYS  
 &  
 CITY OF EAST ST. LOUIS  
**EAST ST. LOUIS EXPRESSWAY**  
 L. & N. R.R. OVER WEST BOUND EXPWAY,  
 RAMP "L", EAST BOUND EXPWAY AND RAMP "M"  
 FRAMING PLAN SPAN 2  
 H.W. LOCHNER, INC.  
 ENGINEERS  
 CHICAGO, ILLINOIS  
 DATE JULY 1960  
 SHEET NO. 17

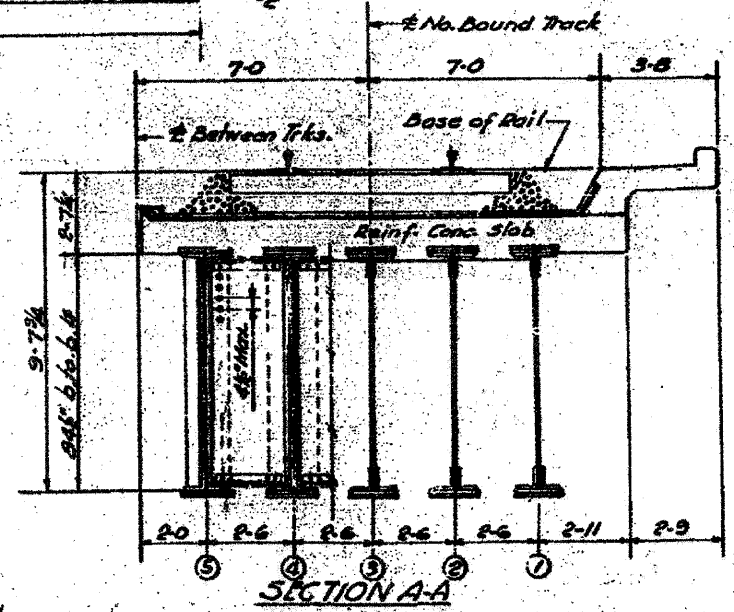
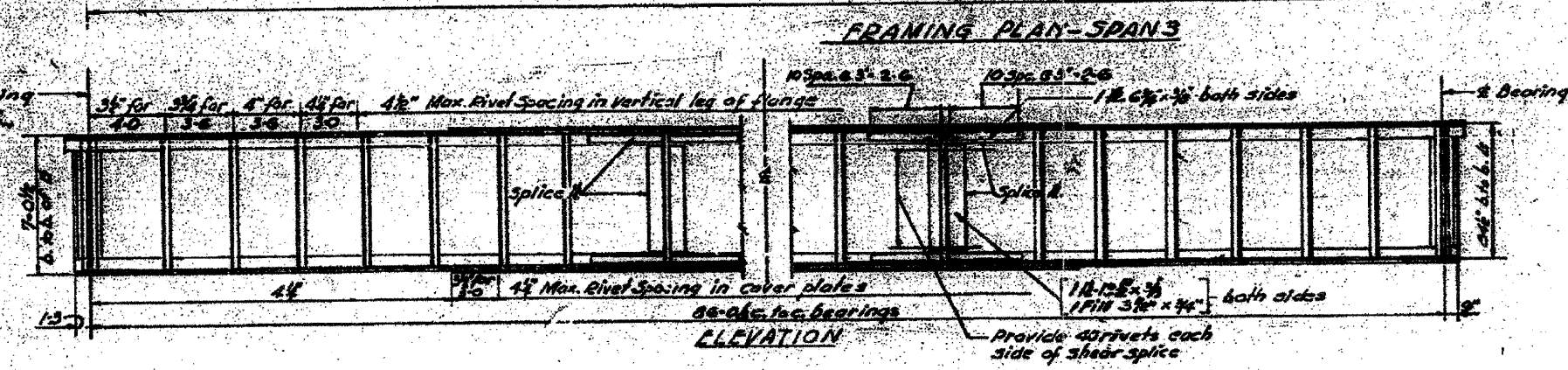
PROJECT NO.	55-70	DIST.	ST. CLAIR
DATE	7/19/40	SHEET	29



ELEVATIONS BACK OF BOTTOM FLANGE ANGLES & BEARING SHIM THICKNESS REQUIRED

Girder	@ Brg. Center Pier		@ Brg. South Pier	
	Elev.	Shim.	Elev.	Shim.
1	407.57	—	407.60	1/8"
2	407.57	1/8"	407.61	1/8"
3	407.07	1/8"	407.61	1/8"
4	407.07	1/8"	407.61	1/8"
5	407.07	1/8"	407.61	1/8"
6	407.58	1/8"	407.62	1/8"
7	407.08	1/8"	407.62	1/8"
8	407.08	1/8"	407.62	1/8"
9	407.08	1/8"	407.62	1/8"
10	407.08	1/8"	407.63	1/8"

Elevations are given @ the intersection of a Brg. & a Girder. Shim thickness is the total theoretical thickness required.



**DEAD LOAD PER TRACK**

Ballast, Ties & Rail	2.73 <sup>kt</sup>
Slab, Water, roof & Walk	3.00
<b>Total</b>	<b>5.73<sup>kt</sup></b>
D.L. Girder 10-1	1.15 <sup>kt</sup>
D.L. Acc. 5-1/2	.18
D.L. Steel	.13
<b>Total</b>	<b>2.06<sup>kt</sup></b>

**MOMENTS & SHEAR FOR GIRDER No. 1 \***

End Shear	Max. Moment
DL 62.5 <sup>k</sup>	DL 1950 <sup>ft-k</sup>
LL 96.0	LL 1810
Imp. 62.8	Imp. 1172
<b>Total 221.3<sup>k</sup></b>	<b>Total 4932<sup>ft-k</sup></b>

\*Computed for 87 Span.

**SECTION: ALL GIRDERS BOTH FLANGES**

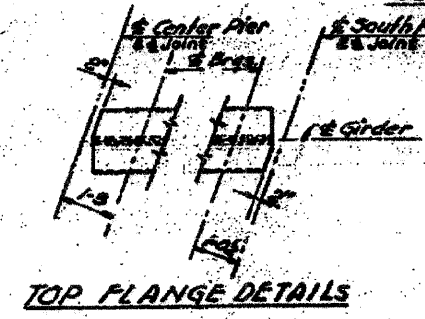
Grass	Net
8 Web 3-1/2" = 4.50"	4.50"
21 2" x 3/4" = 22.88"	19.50"
12 1 1/2" x 1/2" = 10.63"	9.22"
12 1 1/2" x 1/2" = 10.63"	9.22"
<b>Total</b>	<b>46.74"</b>
<b>Grass I = 173,124 in<sup>4</sup></b>	<b>Grass S.M. = 3940 in<sup>3</sup></b>
<b>Net I = 146,234 in<sup>4</sup></b>	<b>Net S.M. = 3582 in<sup>3</sup></b>
<b>Allow 18,000 psi</b>	
<b>Unit Stress = 4932 x 1000 x 12 / 3362 = 17,550 psi</b>	

**IMPACT**  
Vertical 60-90% = 45%  
Rolling 200-225 = 20%  
12.5 65% girder Load

**ADDITIONAL MATERIAL**

Web 3 1/2" x 7/16" = 36.78"  
End Stiff. 4 1/2" x 1/2" x 1/4"  
Use 16 rivets per pair (Min)  
End Fills 1 1/2" x 3/4"  
Intermed. Stiff. 2 1/2" x 3/8" x 1/4"  
on fills of Diaphragms.  
2 1/2" x 3/8" x 1/4" on fills elsewhere.  
Rivet diameter = 7/8"

End Diaphragms & Intermed. Diaphragms  
& 1/4" Top & Bottom 4 1/2" x 1/2" x 1/4"  
Lateral Plates & Horizontal Gussets 7/8"  
Top Lateral 2 1/2" x 1/2" x 1/4" rivets.  
Bottom Lateral 1 1/2" x 1/2" x 1/4" rivets.  
Web Splices at 16 points approx.  
Max. distance c.c. rivets on outside gage line of cover plates shall be 8 1/2"  
Min pitch 3 1/2" in bottom cover plate near 1/4" of span on account of net section.

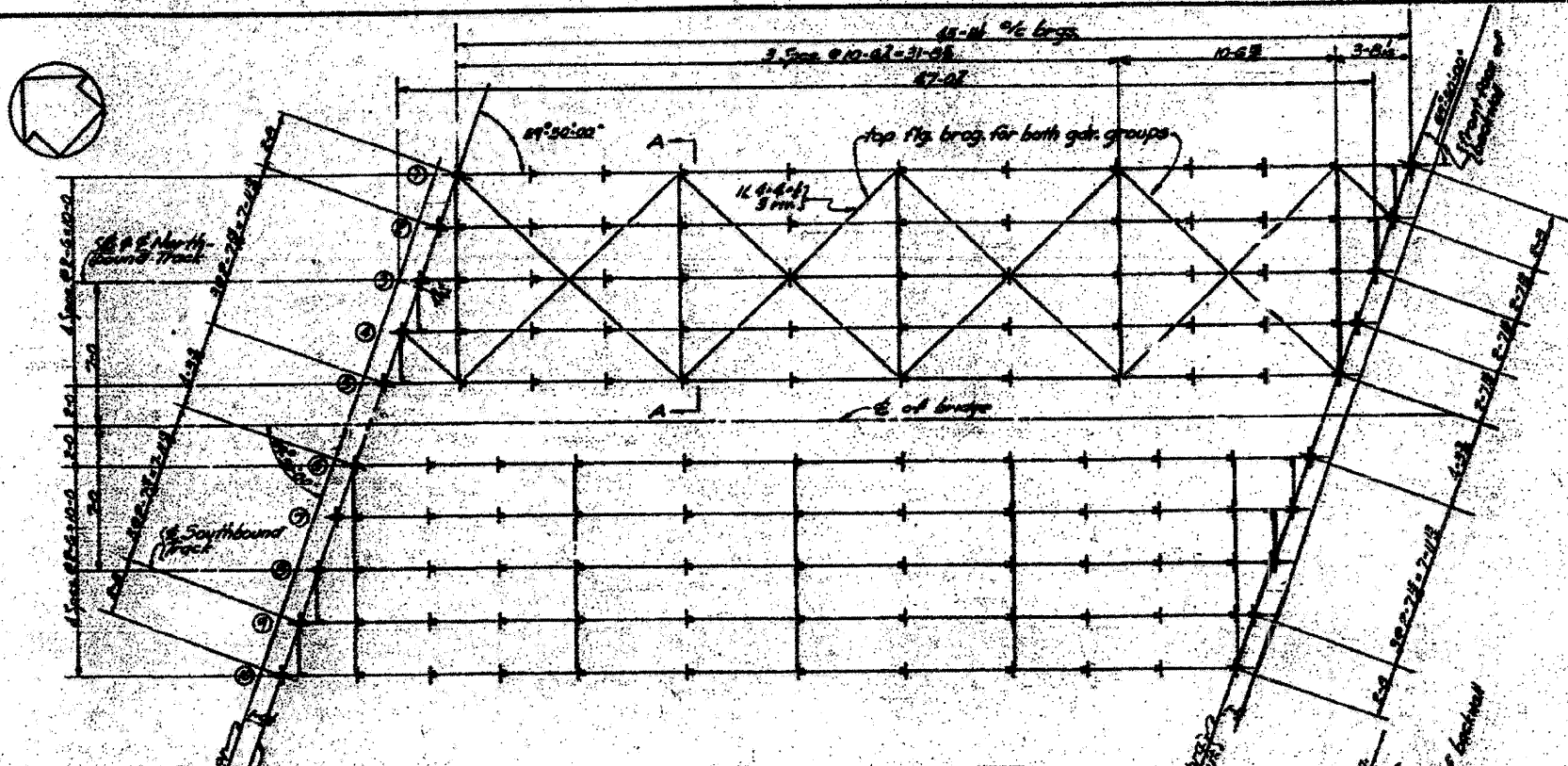


- NOTES**
1. For details of diaphragms, lateral bracing and connections see Sheet 29.
  2. For details of bearings see Sheet 28.
  3. For General Notes see 54.1.
  4. For Remaining Notes see 54.1.

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BLDGS.  
DIVISION OF HIGHWAYS  
CITY OF EAST ST. LOUIS  
**EAST ST. LOUIS EXPRESSWAY**  
L & N. R.R. OVER WEST BOUND EXPWAY, RAMP 1, EAST BOUND EXPWAY AND RAMP 2

FRAMING PLAN SPAN 3  
H. W. LOCHNER, INC.  
ENGINEERS  
CHICAGO, ILLINOIS  
DATE JULY 1940 SHEET NO. 29

Designed By - L.K.  
Drawn By - H.M.K.  
Checked By - R.C. & P.A.E.



**DEAD LOAD PER TRACK**

Balast, Ties & Rails	2.75
Slab, Water proof. & Walk	3.00
	3.75 ft

**DEAD LOAD FOR GIRDER "1"**

D.L. = 573/5	1.15
D.L. ECG. = 573.104/125 = 4.58	
D.L. Girder	2.25
	1.25 ft

**MOMENTS & SHEAR FOR GIRDER "1"**

End Shear	Max. Moment
D.L. 48.2	D.L. 478
L.L. 59.6	L.L. 599
Imp. 152	Imp. 154
	147.6 ft

**IMPACT**

Vert. 60-48/500 = 3.6	
Roll. 20-2.5-5/125 = 2.00	
	75.8%

**SECTION ALL GIRDERS BOTH FLGS.**

	Gross	Net
Web 76-3	3.56	3.56
2 6-6-3	16.88	13.00
	20.44	16.56
Gross I = 50,410 in <sup>4</sup>		Gross S.M. = 167 in <sup>3</sup>
Net I = 45,940 in <sup>4</sup>		Net S.M. = 1272 in <sup>3</sup>
Allowable Stress = 18,000 psi		
Unit Stress = 1845 = 1000 / 1272 = 14,600 psi		

**Girders**

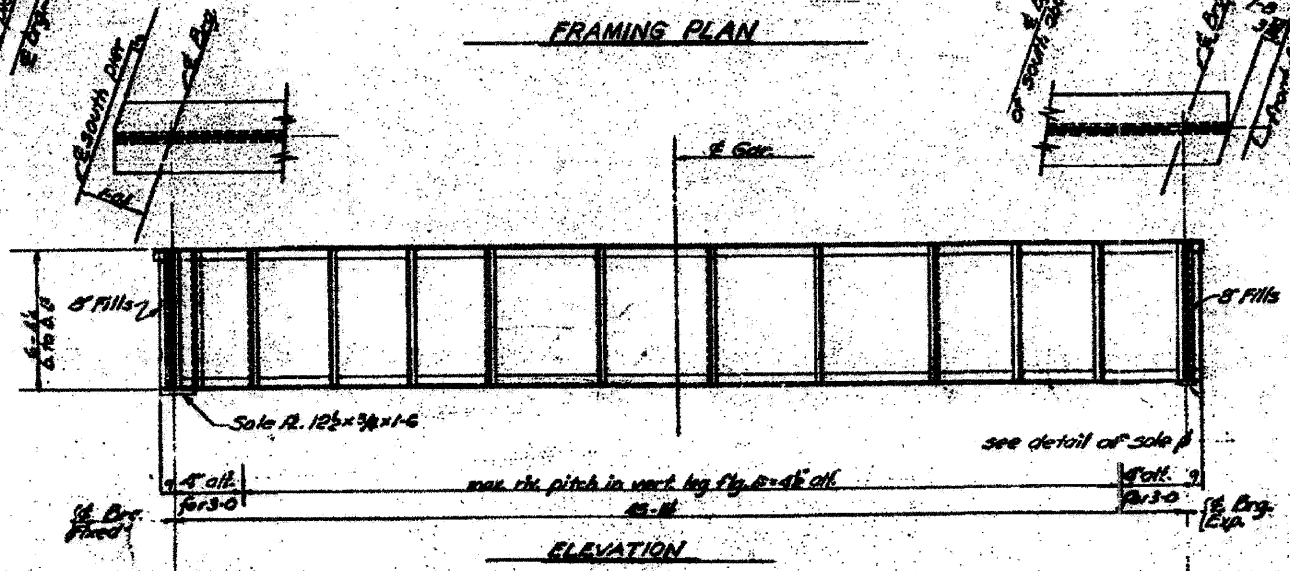
Web # 76-3 = 28.50"  
 Flg. 10 6-6-3  
 (Brig. Stiff. 18.5-4-4 (Cut from 6-4 L))  
 Fil B 8-4  
 (Use 13 Rivets Per Pair (Min))  
 Int. Stiff. 28.5-3-4 on fills @ Diaphragms.  
 2 8-5-5-4 on fills elsewhere.

**Diaphragms**

Web # 3 7/8  
 Flg. 28 4-4-4  
 6 Rivets

**Top Laterals**

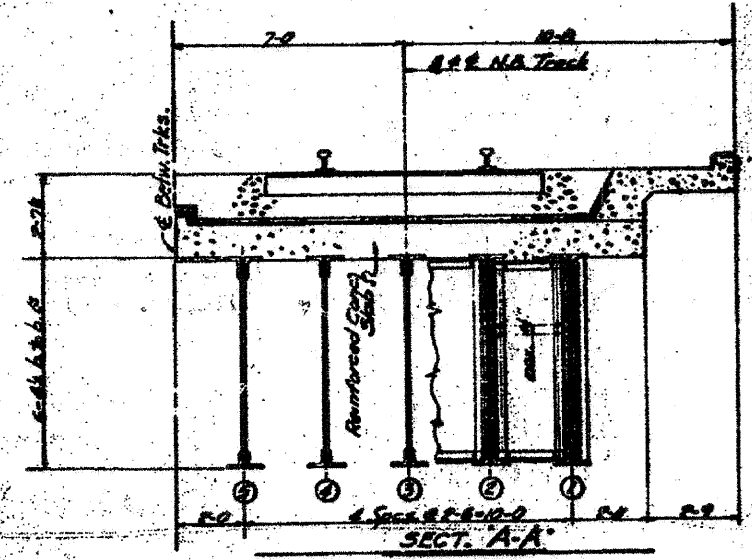
B 4-4-4 - 3 Rivets  
 Gusset R. 1/2



**ELEV. BACK OF BOT. FLG. B & DRG. SHIM REQUIRED.**

Gtr.	Flg. Shim	Drig. Shim
1	408.29	0
2	408.29	0
3	408.29	1/8
4	408.29	1/8
5	408.30	1/8
6	408.30	1/8
7	408.30	1/8
8	408.31	1/8
9	408.31	1/8
10	408.31	1/8

Elevs. are given @ the intersection of E. Brg. & girders. Shim thickness is the total theoretical thickness req'd.

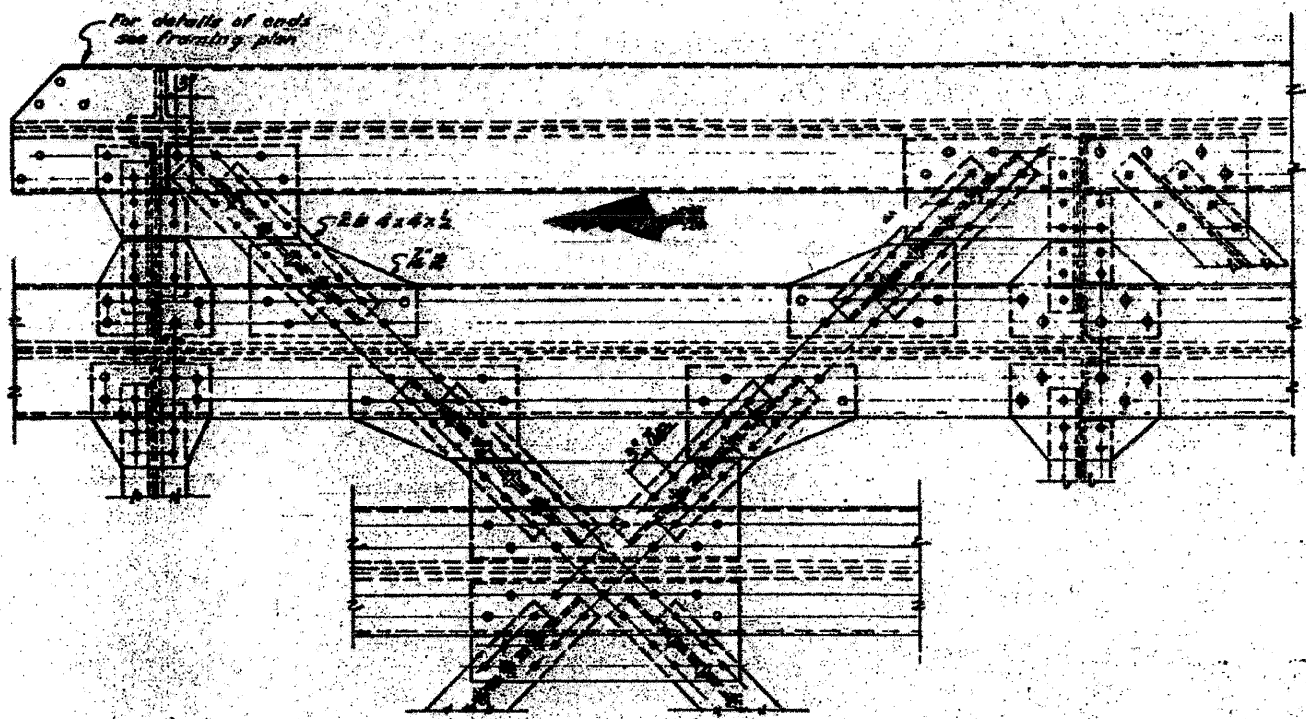


- NOTES:**
- 1 - For details of diaphragm, lateral bracing & connections see Sht. # 20.
  - 2 - For details of bearings see Sht. # 21.
  - 3 - For General Notes see Sht. # 1.
  - 4 - Rivets 1" Open Holes 1 1/2"
  - 5 - For Framing Notes see Sht. # 1.

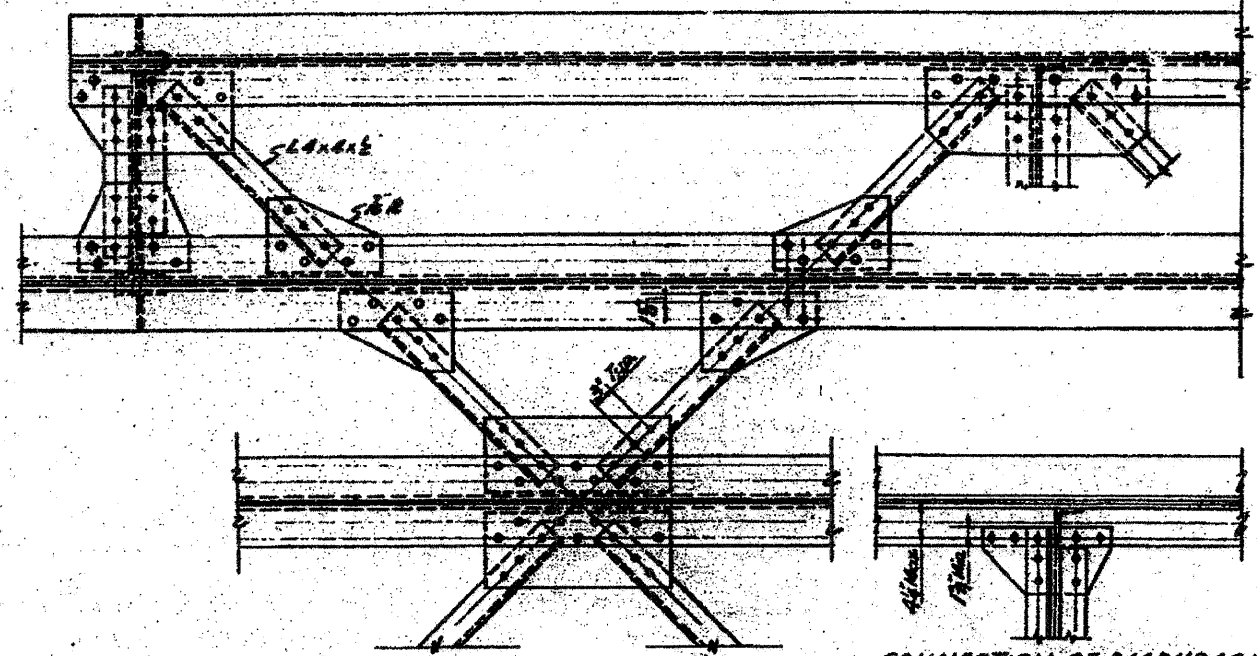
STATE OF ILLINOIS  
 DEPARTMENT OF PUBLIC WORKS & BLDGS.  
 DIVISION OF HIGHWAYS  
 &  
 CITY OF EAST ST LOUIS  
**EAST ST. LOUIS EXPRESSWAY**  
 L. & N. R.R. OVER WEST BOUND EXPWAY  
 RAMP "1", EAST BOUND EXPWAY AND RAMP "1"  
 FRAMING PLAN SPAN 4  
 N.W. LOCHNER, INC.  
 ENGINEERS  
 CHICAGO, ILLINOIS  
 DATE JULY 1960  
 SHEET NO. 21

Designed By: L.L.  
 Drawn By: R.L.  
 Checked By: R.K. P.M.E.

PROJECT NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
FAZ-70633	82-IDM	St. Clair	22	31
FED. ROAD DIST. NO. 7 ILLINOIS PROJECT				

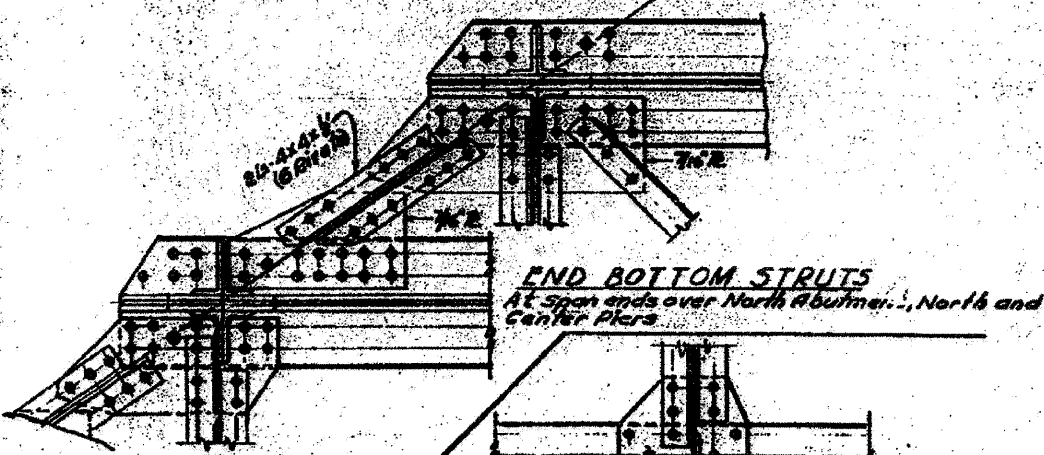


TOP LATERAL BRACING SPAN 1, 2 & 3

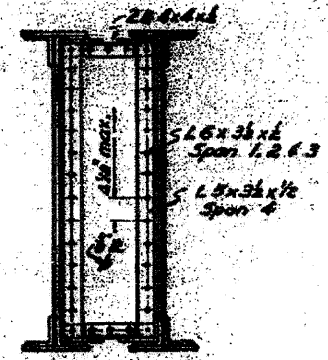


TOP LATERAL BRACING SPAN 4

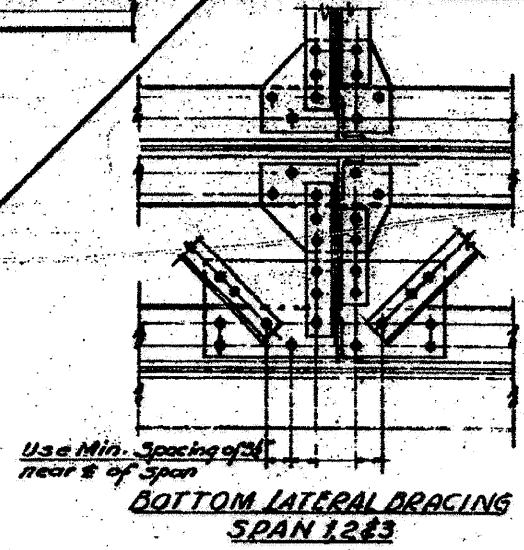
CONNECTION OF DIAPHRAGM TO BOTTOM FLANGE FOR SPAN 4



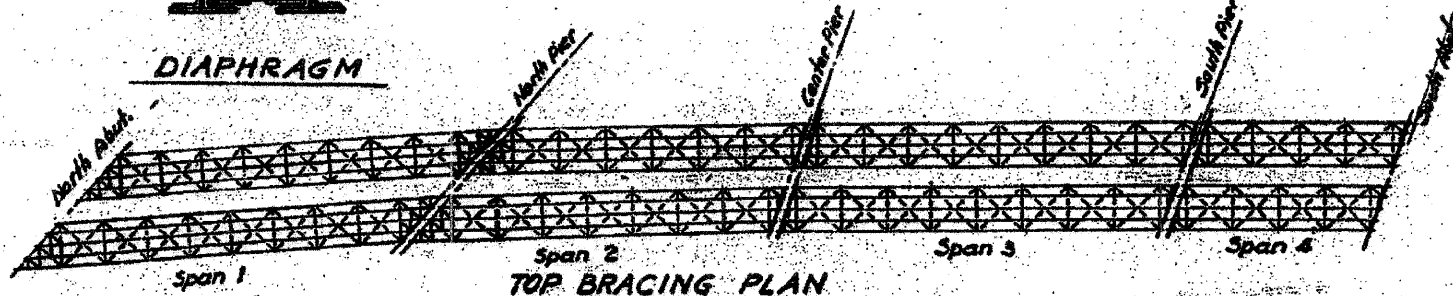
END BOTTOM STRUTS At Span ends over North Abutment, North and Center Piers



DIAPHRAGM



BOTTOM LATERAL BRACING SPAN 1, 2 & 3



TOP BRACING PLAN



BOTTOM BRACING PLAN

NOTES  
Edge distance not more than 2" or less than 1 1/2"  
Laterals shall have one rivet pass through lateral and flange.

STATE OF ILLINOIS  
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DIVISION OF HIGHWAYS  
&  
CITY OF EAST ST. LOUIS  
EAST ST. LOUIS EXPRESSWAY  
L. & N. R.R. OVER WEST BOUND EXPWAY, RAMP 'L' EAST BOUND EXPWAY AND RAMP 'N'  
LATERAL DETAILS  
H. W. LOCHNER, INC.  
ENGINEERS  
DATE JULY 1960 CHICAGO, ILLINOIS SHEET NO. 22

Designed by  
Drawn by  
Checked by

FILE NAME = DBTRI-76F29-SHT-LNRRB-ridge\_21.dgn

USER NAME = searsb  
PLOT SCALE = 1/8000 1/4 in.  
PLOT DATE = 11/22/2011

DESIGNED OP  
DRAWN OP  
CHECKED DBM  
DATE 11-23-11

REVISED -  
REVISED -  
REVISED -  
REVISED -

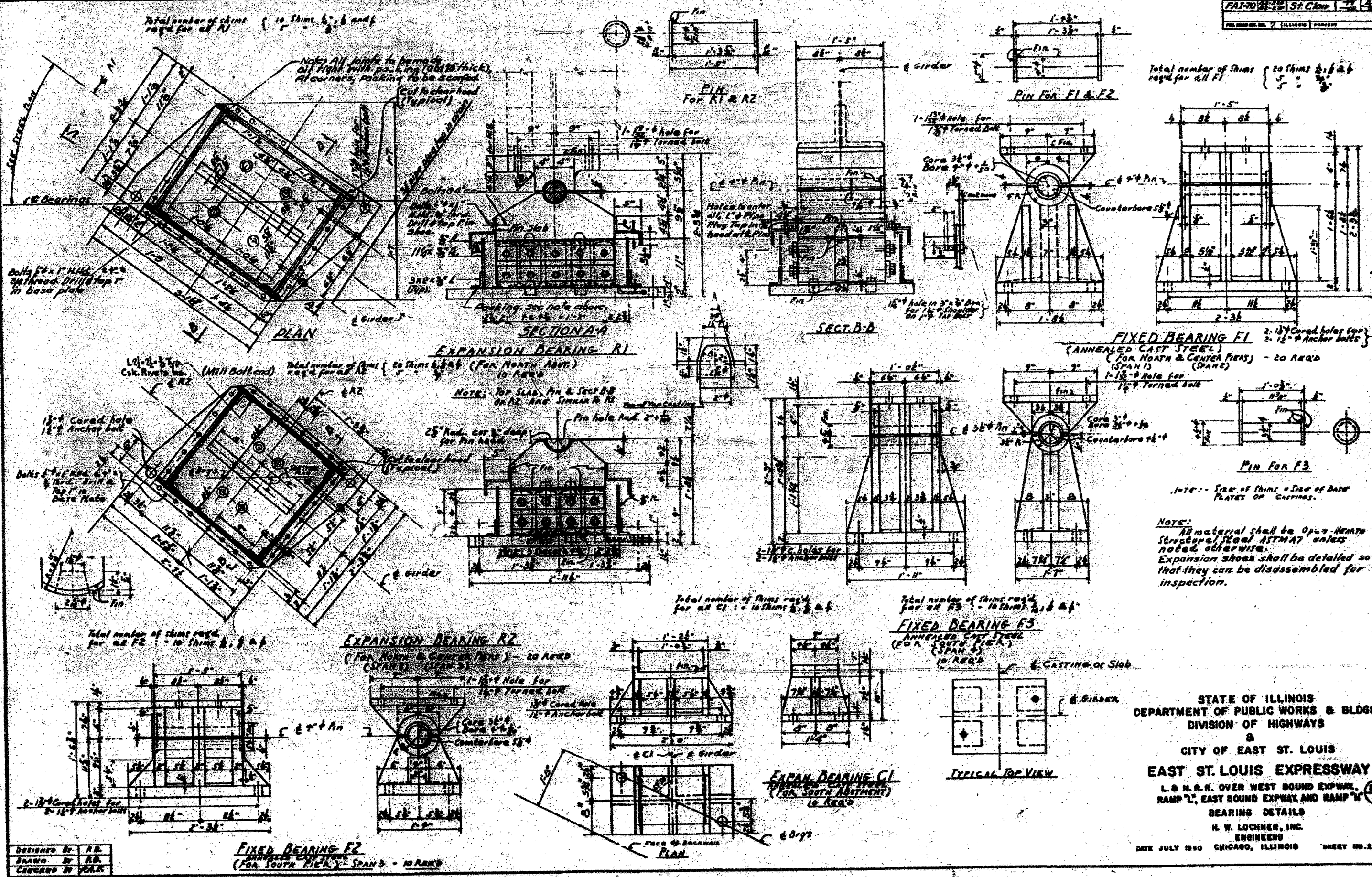
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLAN - L&N RR BRIDGE 21

SCALE: NONE SHEET NO. 22 OF 26 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/70	82-IDM	ST. CLAIR	35	31
CONTRACT NO. 76F29				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-70	82-1DM	ST. CLAIR	35	32
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



NOTE: - Size of shims & Size of Base PLATES ON GIRDERS.  
 NOTE: - All material shall be Open HEAVY Structural Steel ASTM A7 unless noted otherwise. Expansion shims shall be detailed so that they can be disassembled for inspection.

STATE OF ILLINOIS  
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 DIVISION OF HIGHWAYS  
 &  
 CITY OF EAST ST. LOUIS  
**EAST ST. LOUIS EXPRESSWAY**  
 L & N R.R. OVER WEST SOUND EXPWAY,  
 RAMP "L", EAST SOUND EXPWAY AND RAMP "Y"  
 BEARINGS DETAILS  
 H. W. LOCHNER, INC.  
 ENGINEERS  
 DATE JULY 1960 CHICAGO, ILLINOIS SHEET NO. 31

DESIGNED BY: A.B.  
 DRAWN BY: A.B.  
 CHECKED BY: A.B.

FILE NAME = D8TRI-76F29-SHT-LNRRB-ridge.22.dgn  
 USER NAME = seorsb  
 PLOT SCALE = 1.0000 "/in.  
 PLOT DATE = 11/22/2011

DESIGNED OP  
 DRAWN OP  
 CHECKED DBM  
 DATE 11-23-11

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

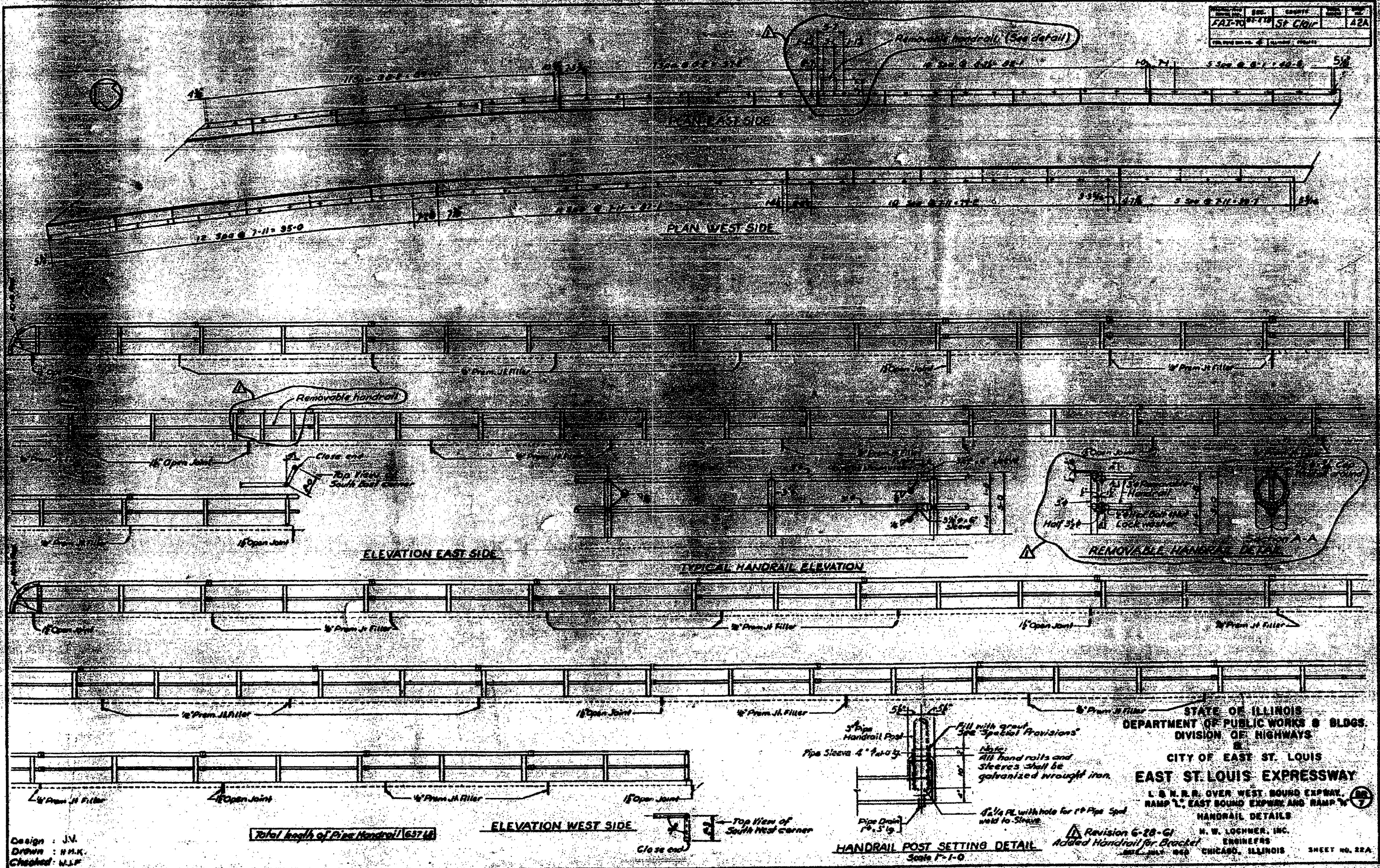
EXISTING BRIDGE PLAN - L&N RR BRIDGE 22  
 SCALE: NONE SHEET NO. 23 OF 26 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/70	82-1DM	ST. CLAIR	35	32
CONTRACT NO. 76F29				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



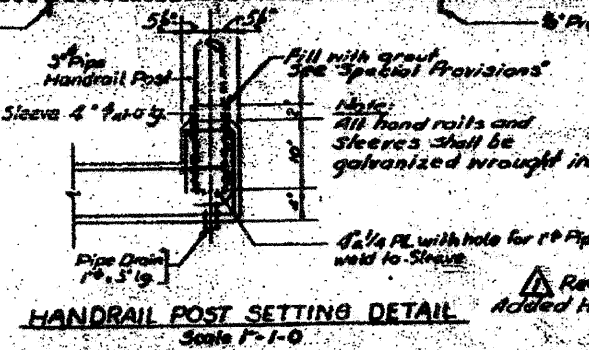


PROJECT NO.	SEC.	CONTRACT	SHEET NO.
FAT-70	82-10	SP. CLIP	42A
DATE: 11/22/2011			



Design : J.V.  
 Drawn : H.M.K.  
 Checked : W.L.F.

Total length of Pipe Handrail 1637.64



STATE OF ILLINOIS  
 DEPARTMENT OF PUBLIC WORKS & BLDGS.  
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**EAST ST. LOUIS EXPRESSWAY**  
 L & N.R.R. OVER WEST BOUND EXPWAY,  
 RAMP "L", EAST BOUND EXPWAY AND RAMP "W"  
 HANDRAIL DETAILS  
 H. W. LOCHNER, INC.  
 ENGINEERS  
 CHICAGO, ILLINOIS  
 SHEET NO. 22A

FILE NAME = DBTRI-76F29-SHT-LNRR8-ridge_24.dgn	USER NAME = searso	DESIGNED OP	REVISIONS	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING BRIDGE PLAN - L&N RR BRIDGE 24	F.A.I. RTE. 55/70	SECTION 82-IDM	COUNTY ST. CLAIR	TOTAL SHEETS 35	SHEET NO. 34
	PLOT SCALE = 1.0000 "/td> <td>DRAWN OP</td> <td>REVISIONS</td> <td></td> <td>SCALE: NONE</td> <td></td> <td></td> <td></td> <td></td> <td></td>	DRAWN OP	REVISIONS		SCALE: NONE					
	PLOT DATE = 11/22/2011	CHECKED DBM	REVISIONS		SHEET NO. 25 OF 26 SHEETS	STA.	TO STA.			
		DATE 11-23-11	REVISIONS						FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	CONTRACT NO. 76F29

