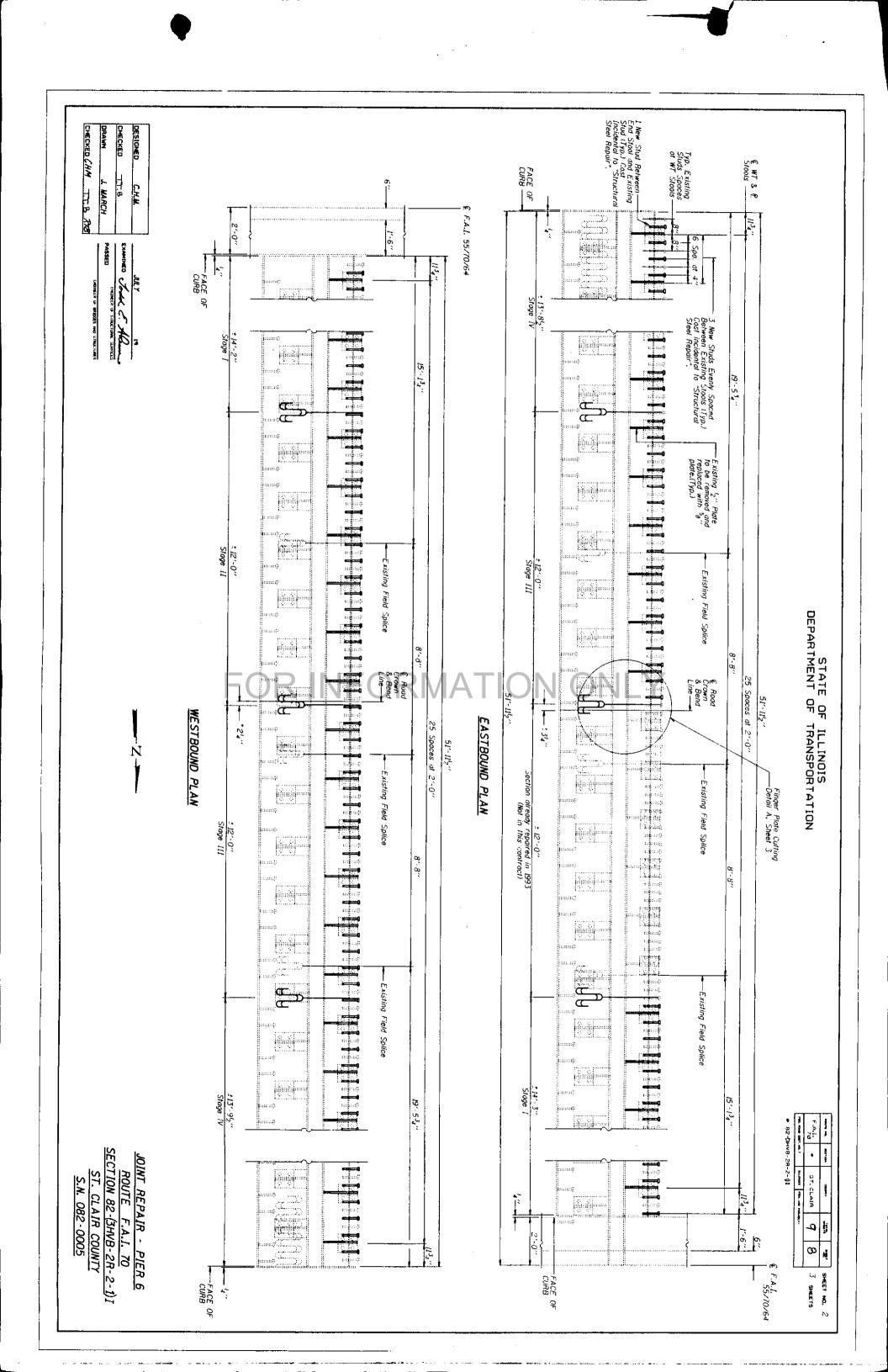
5000-280 PHOJECT ENGINEER: BILL ULIVI (618)346-3180 5000-280 SQUAD LEADER STEVE JINES (618)346-3194 AS BUILT CHANGES WERE MADE ESIDENT ENGINEER EEL NUMBER 2316-15 2298-11 STANDARDS: 7 - 9 JOINT REPAIR DETAILS 2-6 TRAFFIC CONTROL AND PROTECTION, SPECIAL NOEX OF SHEETS 1 TITLE SHEET, INDEX OF SHEETS, SUMMARY OF QUANTITIES STRUCTURAL STEEL REPAIR TEMPORARY CONCRETE BARRIER, TERMINAL SECTION (STATE OWNED) TRAFFIC CONTROL AND PROTECTION (SPECIAL) CONCRETE SUPERSTRUCTURE EMPORARY CONCRETE BARRIER (STATE OWNED) CONCRETE REMOVAL RAFFIC AND PROTECTION STANDARD 2316 SUMMARY OF QUANTITIES CONTRACT NO. 96882 SECTION 82-(3HVB-2R-2-1) F. A. ROUTE 70 00 00 00 00 00 00 00 LOCATION MAP R 10 W POPLAR ST. BRIDGE APPROACHES
FAI ROUTE 70
East St. Louis, St. Clair County, Illinois of lightic KEY PLAN 8-136 )37-95 T. CLAIR

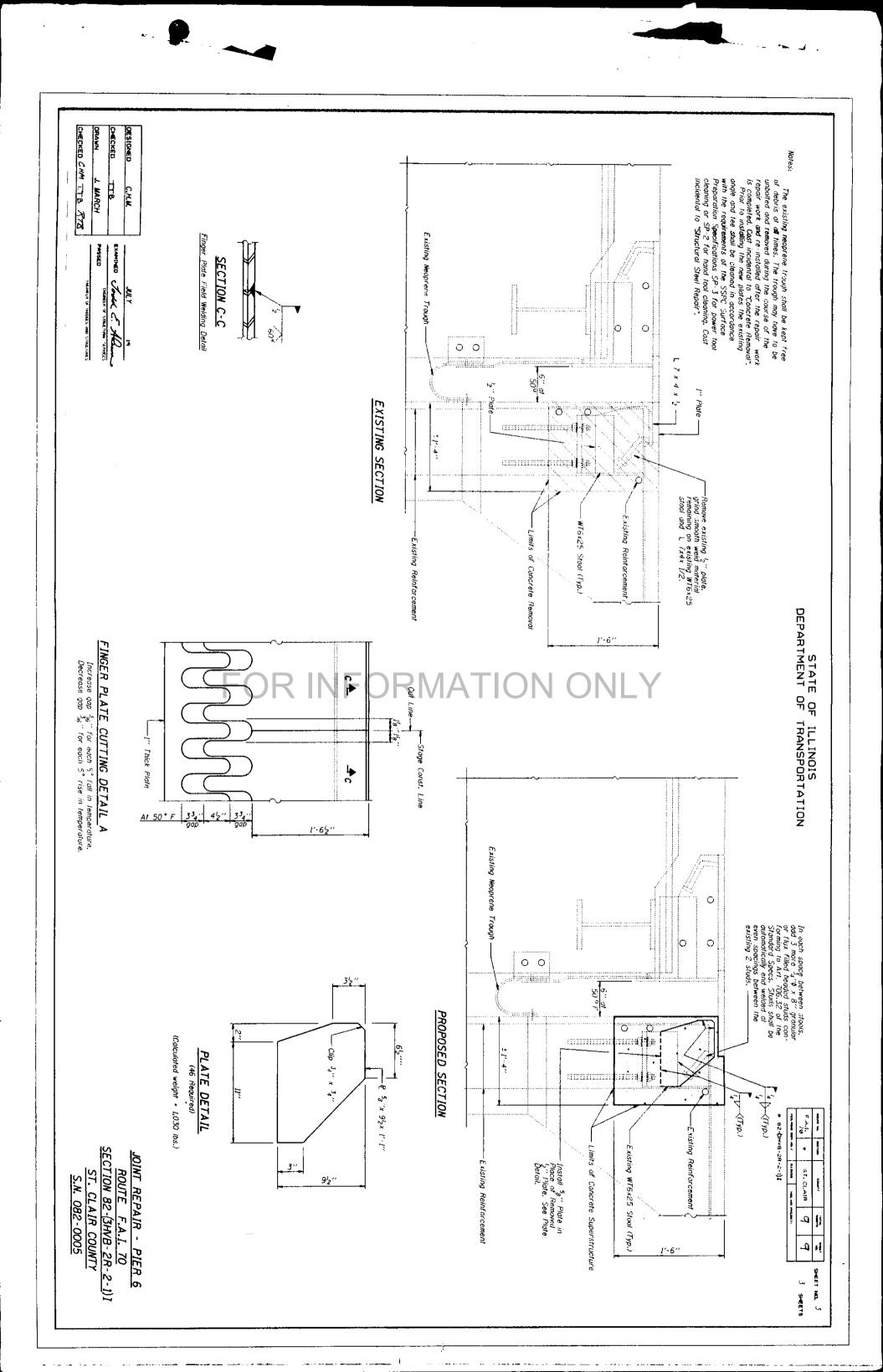
CHECKED CHM TTB RTX SIGNED CHARLES TO MAKE ANN L HARCH 56′-6′′ 56′-6″ Brg. River Pier 6 –∉ Brg. River Pier 6 Finger Plate Expansion Joint to be Retrofitted 132'-0" Span I PASSED EXAMINED PACHAGER OF SHALL DUMM, SENVICES -€ Pier I 161'-0" Span 2 -E Pier 2 161.-0., Span 3 ELEVATION PLAN € Pier 5 STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION Span 4 152 -0" - € Pier 4 Pier 4 142'-0" Span 5 ₽ Pier 5 € Pier 5 Span ABCD 108'-0" € Pier BCI & Pier BCI 36'-0" 37'-1" All new structural steel shall conform to AASHTO Classification M-270 Gr. 36. Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make cacessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Removni of all damaged members necessary to complete the work as detailed on the plans and as specified in the Special Provisions shall be considered incidental to "Structural Steel Repair".

After fubrication all surfaces of the steel plates shall be given one shap coat of the inorganic zinc rich primer. Cost incidental to "Structural Steel Repair".

Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost incidental to "Concrete Removal" extending into the repair area shall be cleaned. Straightened and incorporated into the new work. ncrete Supersructure uctural Steel Repair crete Removal GENERAL MOTES TOTAL BILL OF WATERIAL 82-(3HVB-2R-2-1)I SECTION 82-(3HVB-2R-2-1)[ JOINT REPAIR - PIER 6 ST. CLAIH ST. CLAIR COUNTY ROUTE F.A.I. 70 S.N. 082-0005 a. 100 71 3 SHEETS SHEET NO. !





-98-021-85

. ST. CLAIR 105

COLUMN SHEETS NO.

北

82-3HVB-2R-2-1

6-11-93

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT WERE BUILT AS SECTIONS: THE STRUCTURES REHABILITATED IN THIS

82-3VB 82-3HVD-I

DEPARTMENT OF TRANSPORTATION FEDERAL LANS FOR PROPOSED DIVISION OF HIGHWAYS STATE OF ILLNOIS 

1801 - 50 FET 1801 - 50 FET 1801 - 50 FET 1801 - 50 FET 1801 - 5 FET

PROJECT IR-70-1(161) I SI\_CLAIR COUNTY c-98-001-90 SECTION 82-3HVB-2R-2-1 F.A.I. ROUTE 70



AS BUILT CHANGES WERE MADE ON THE FOLLOWING SHEETS:

DESIGN DESIGNATION

RESIDENT ENGINEER

AWARDED REEL NUMBER MICROFILMED

ENDS 59+00.14 E B. CD (ROADWAY D)

CONTRACT NO. 96168

NET LENGTH OF PROJECT -1.80014 . FT. - 0.341 MILES

PREPARED KAZYLLSWINGS NOISING

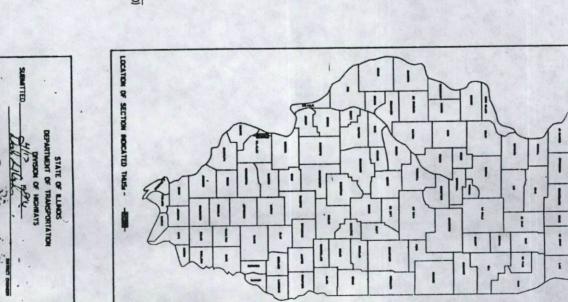
SVERDRUP

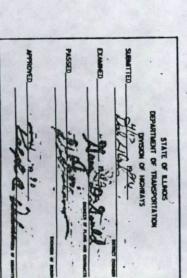
CORPORATION

ST.LOUIS, MISSOURI

PROJECT
BEGINS 41+00.00 E.B. 1-55/70/64

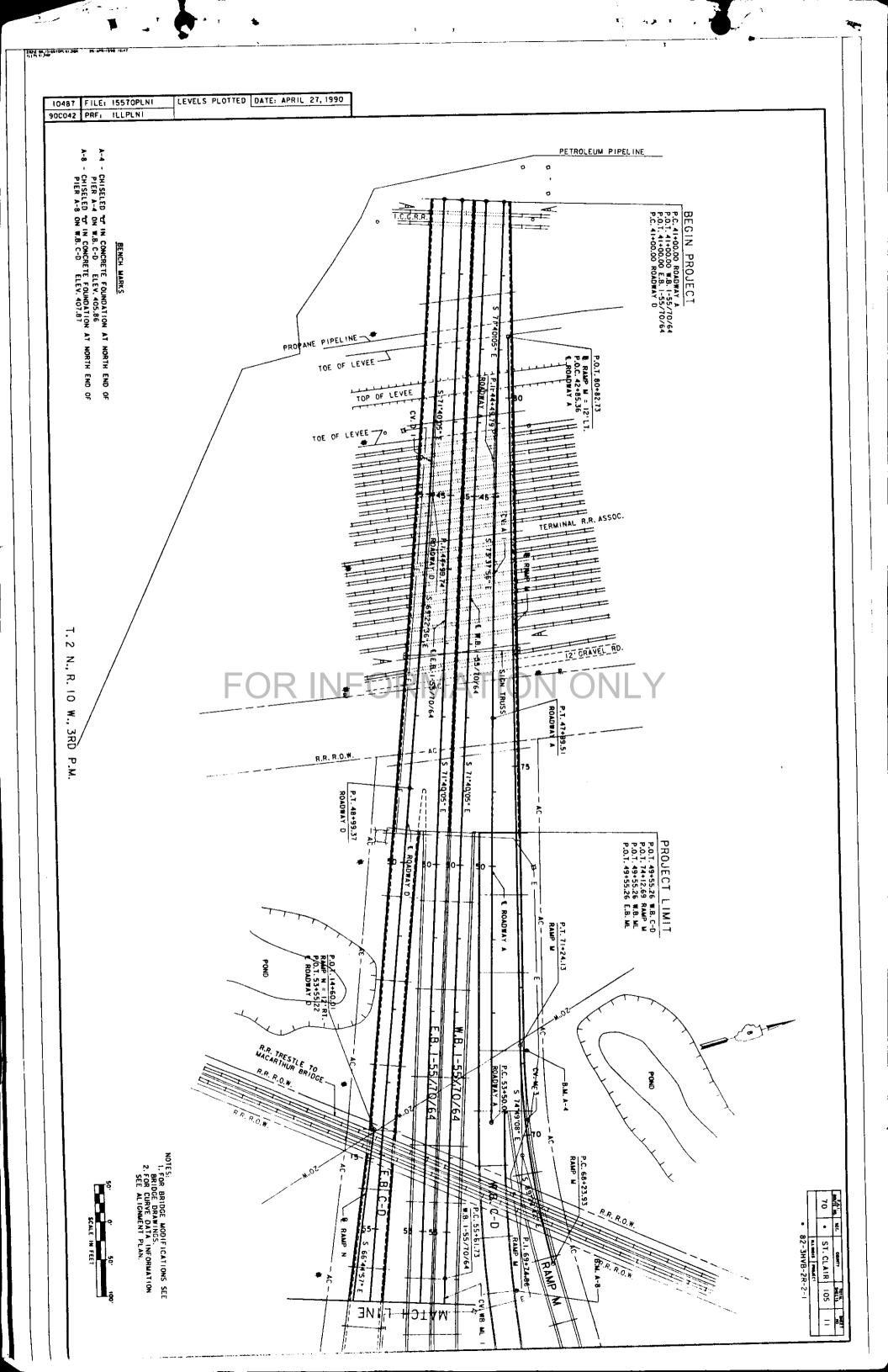
CH TRANSPORTATION

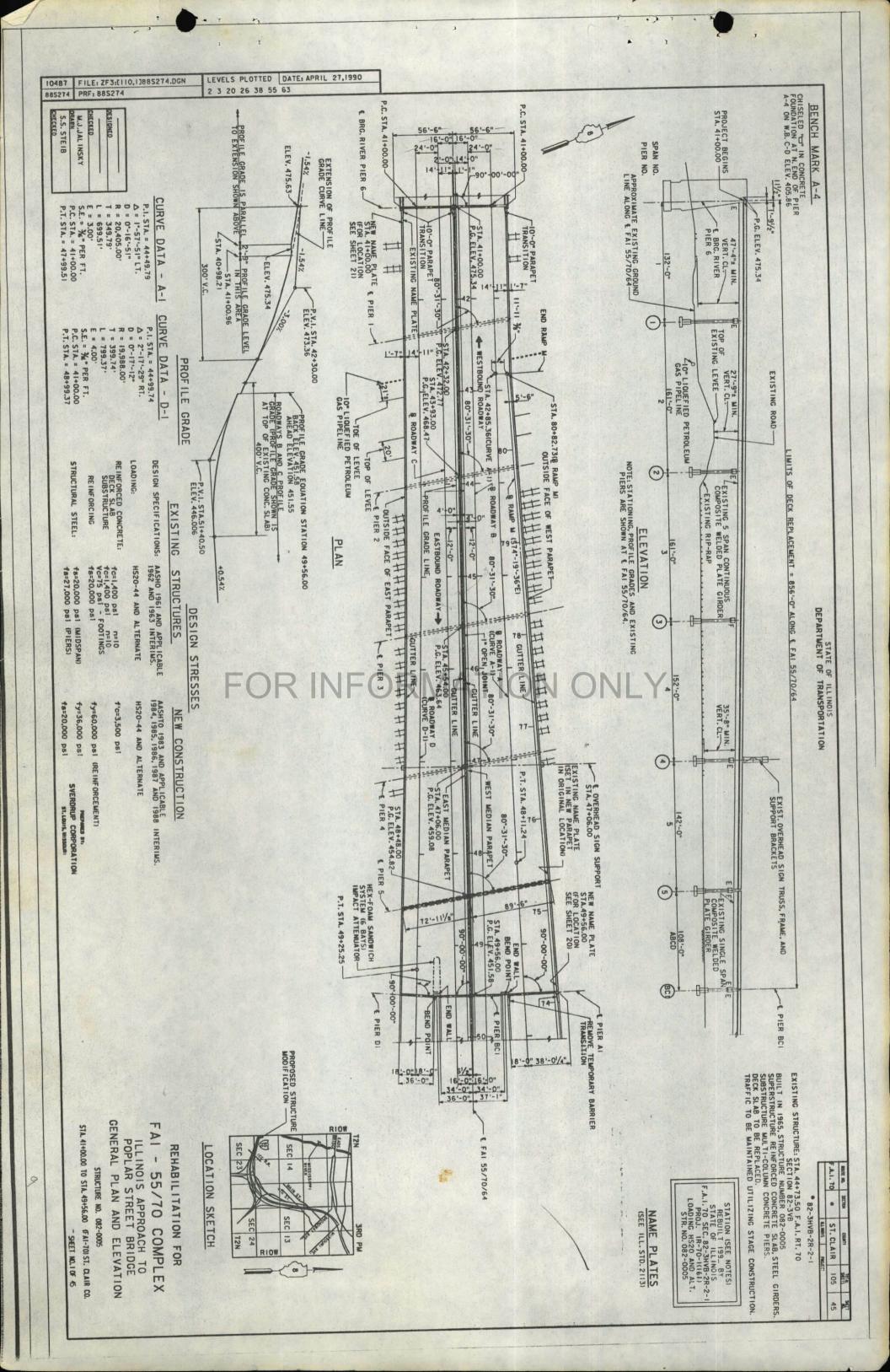


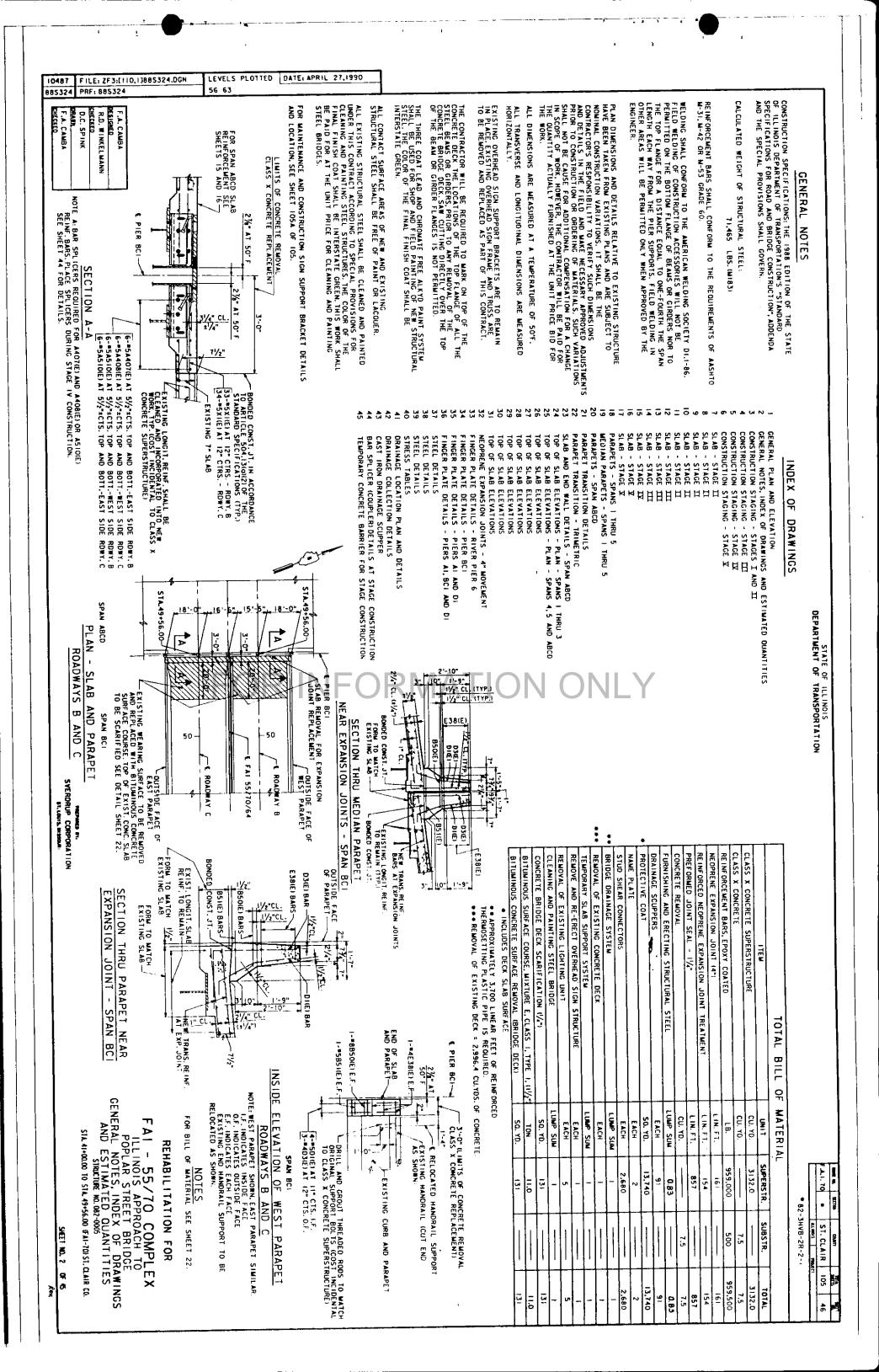


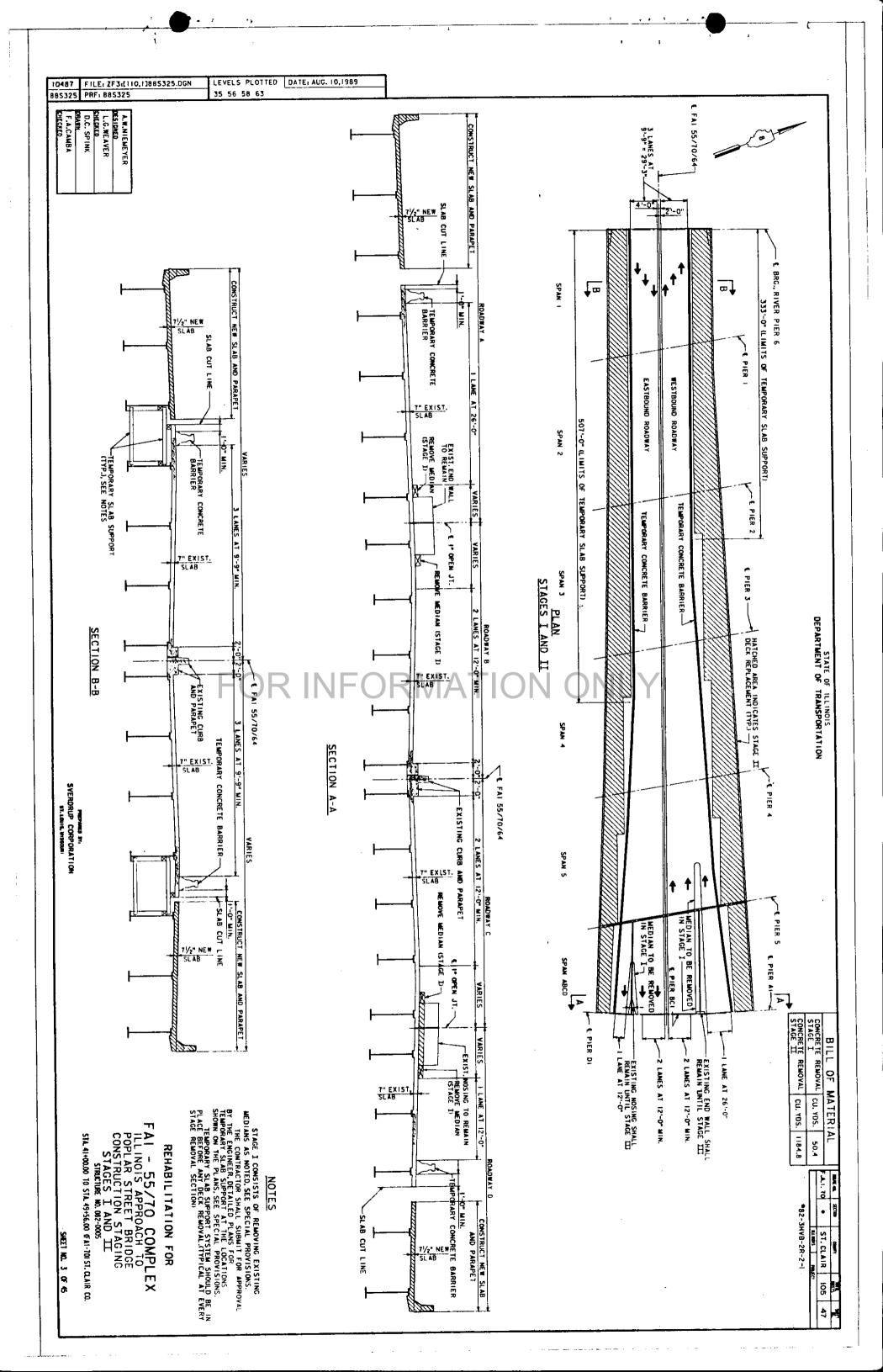
HOM SI. NEJETER NO. 62-39027 MO. 81-3956

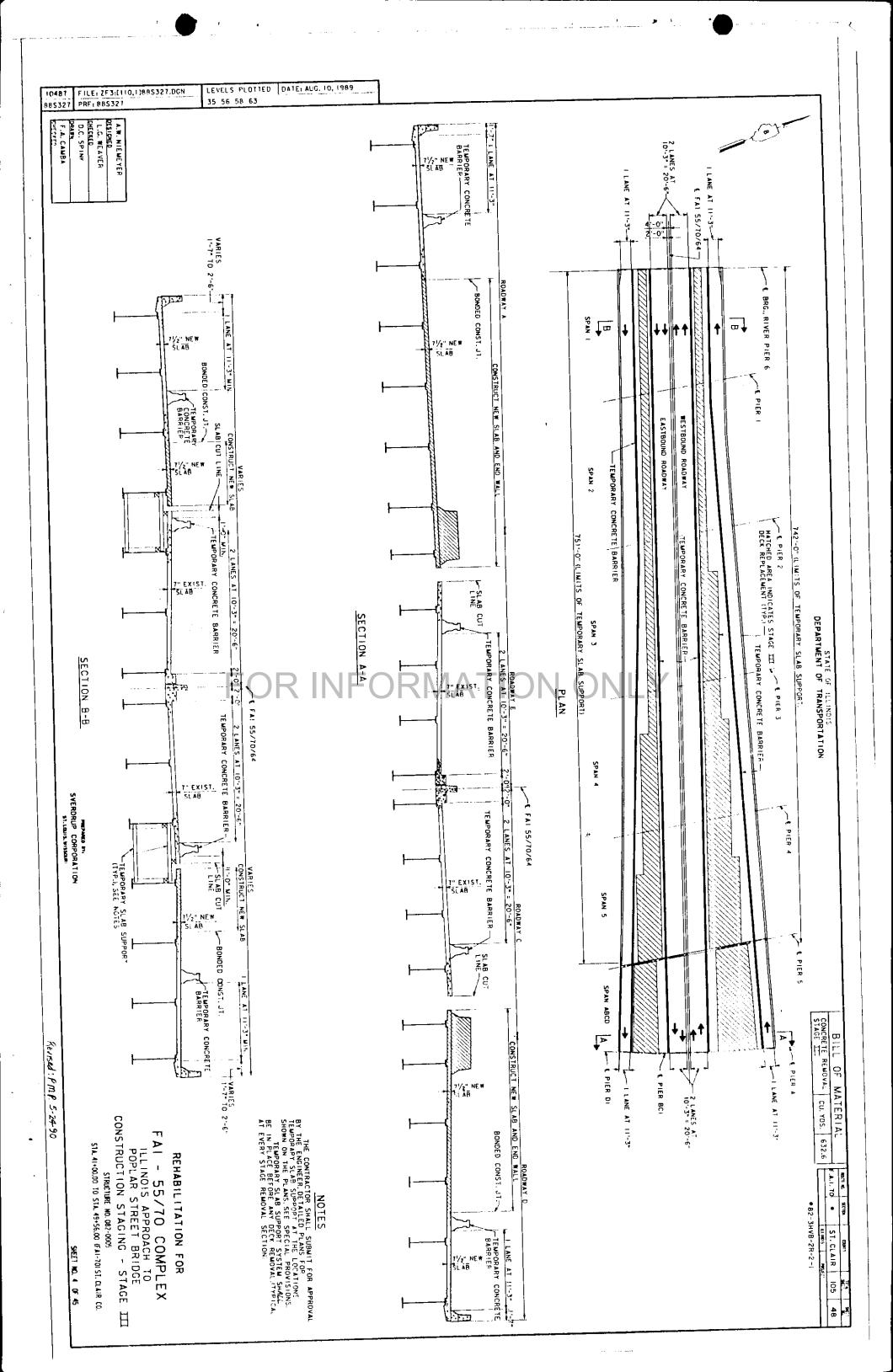
REV. SET 5-11-90

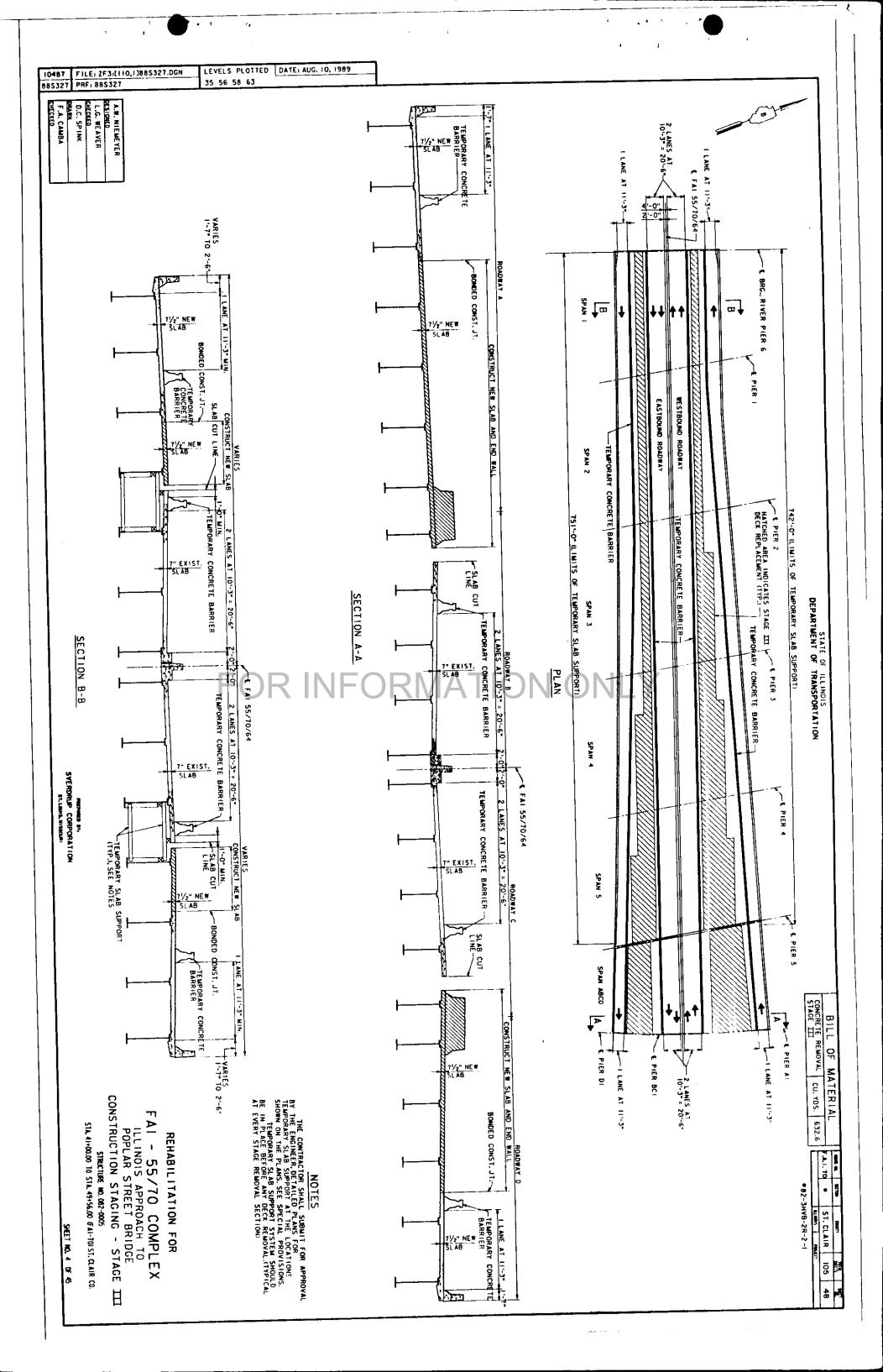


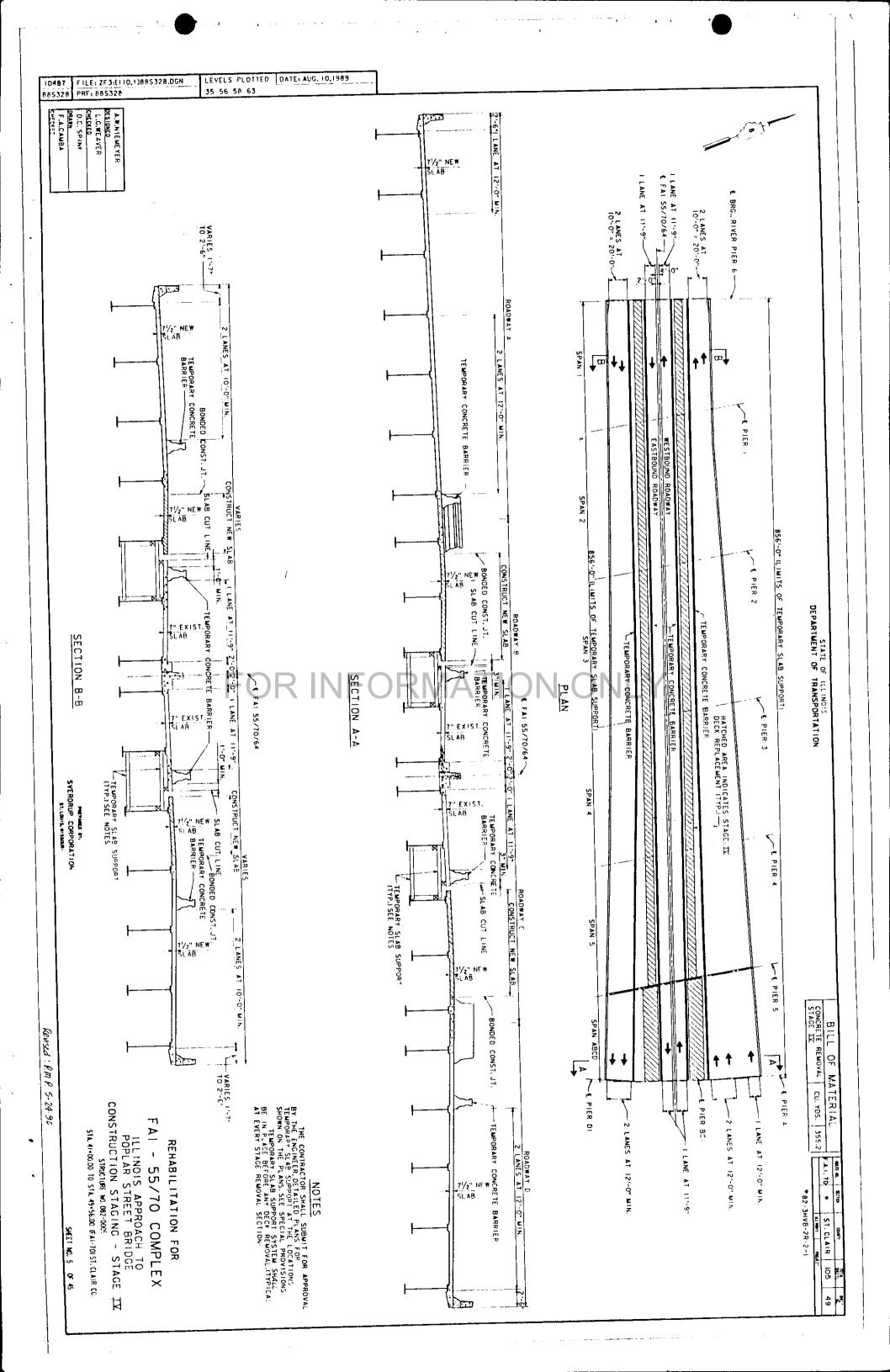


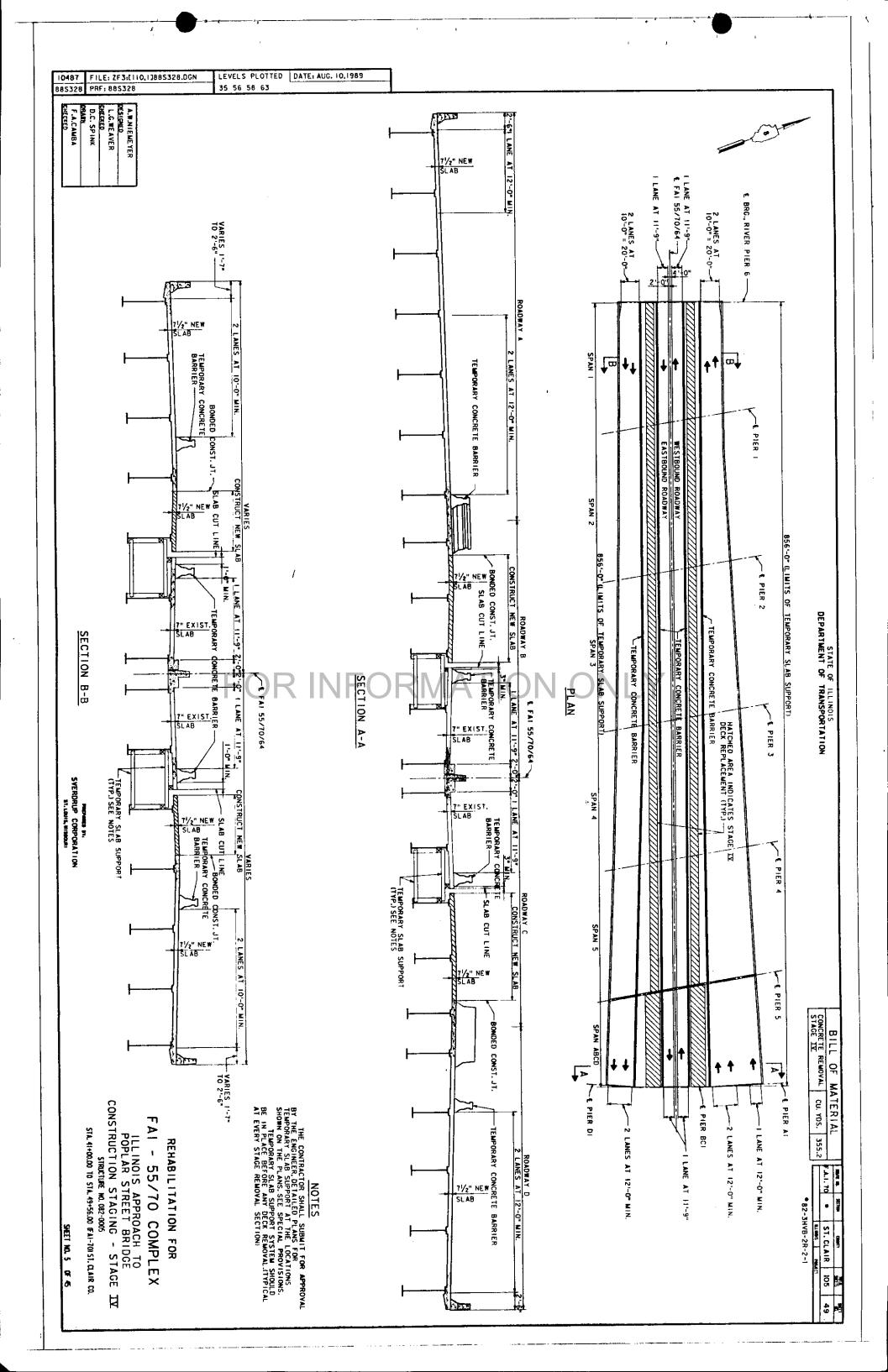


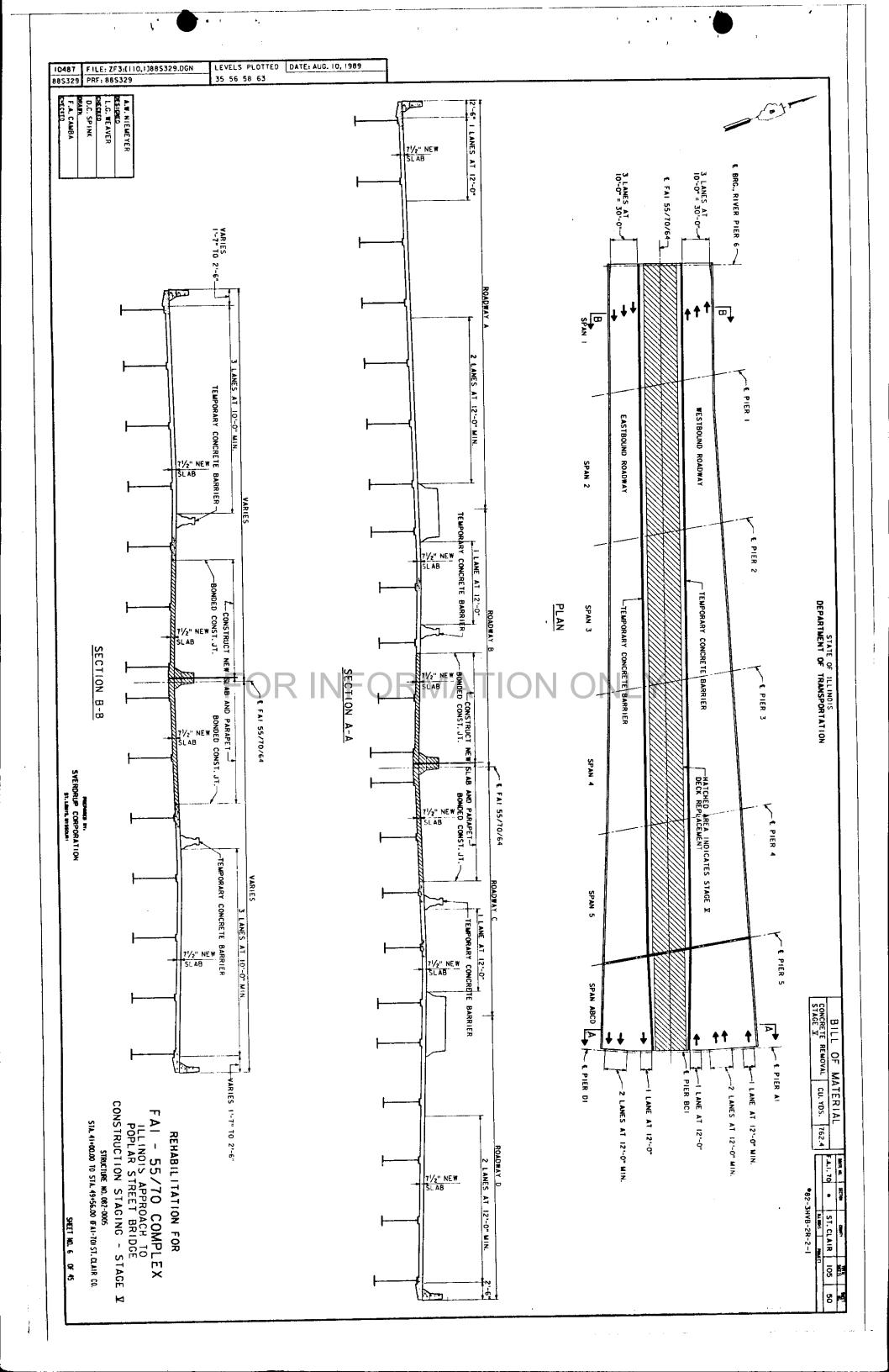


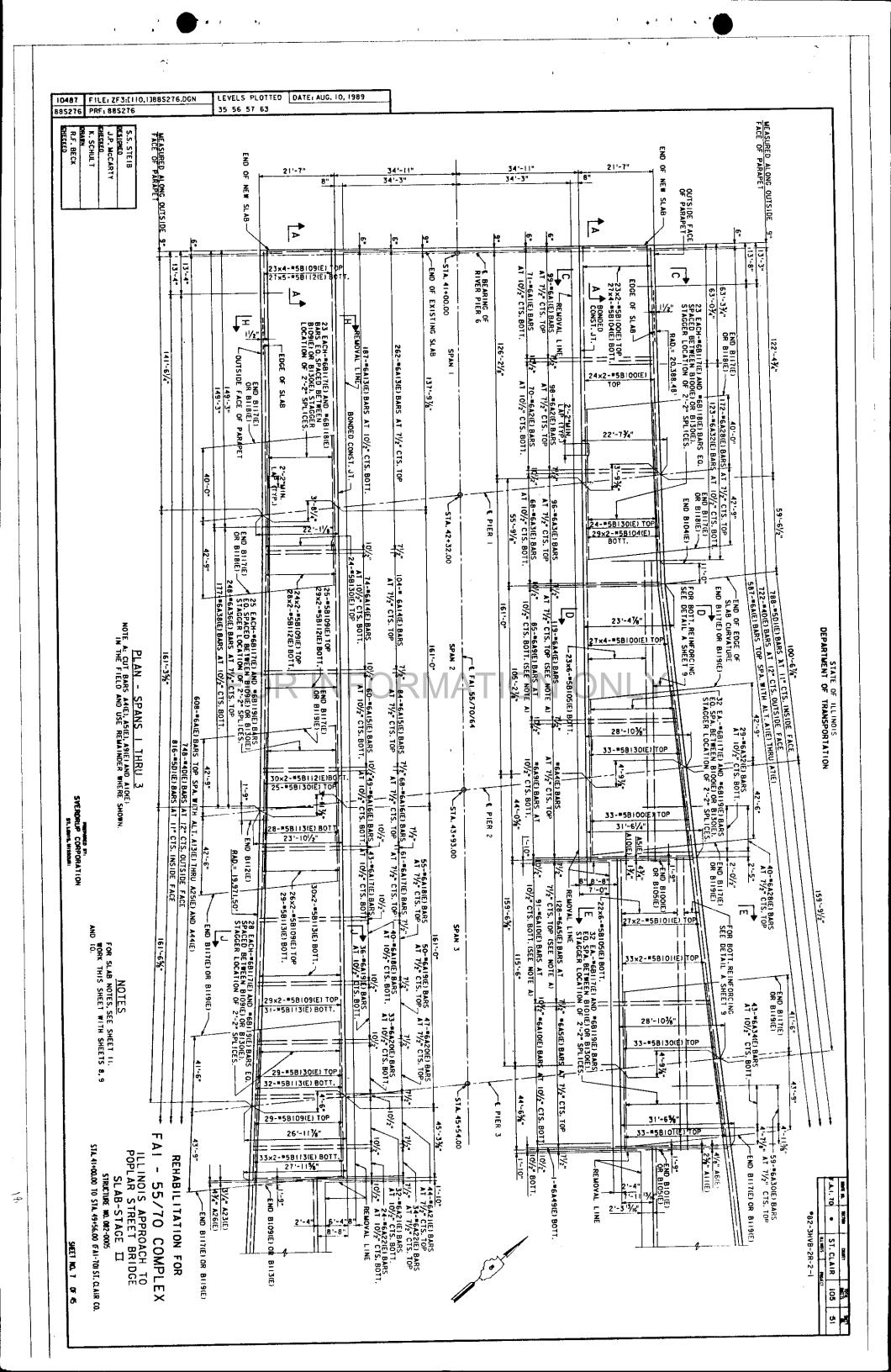


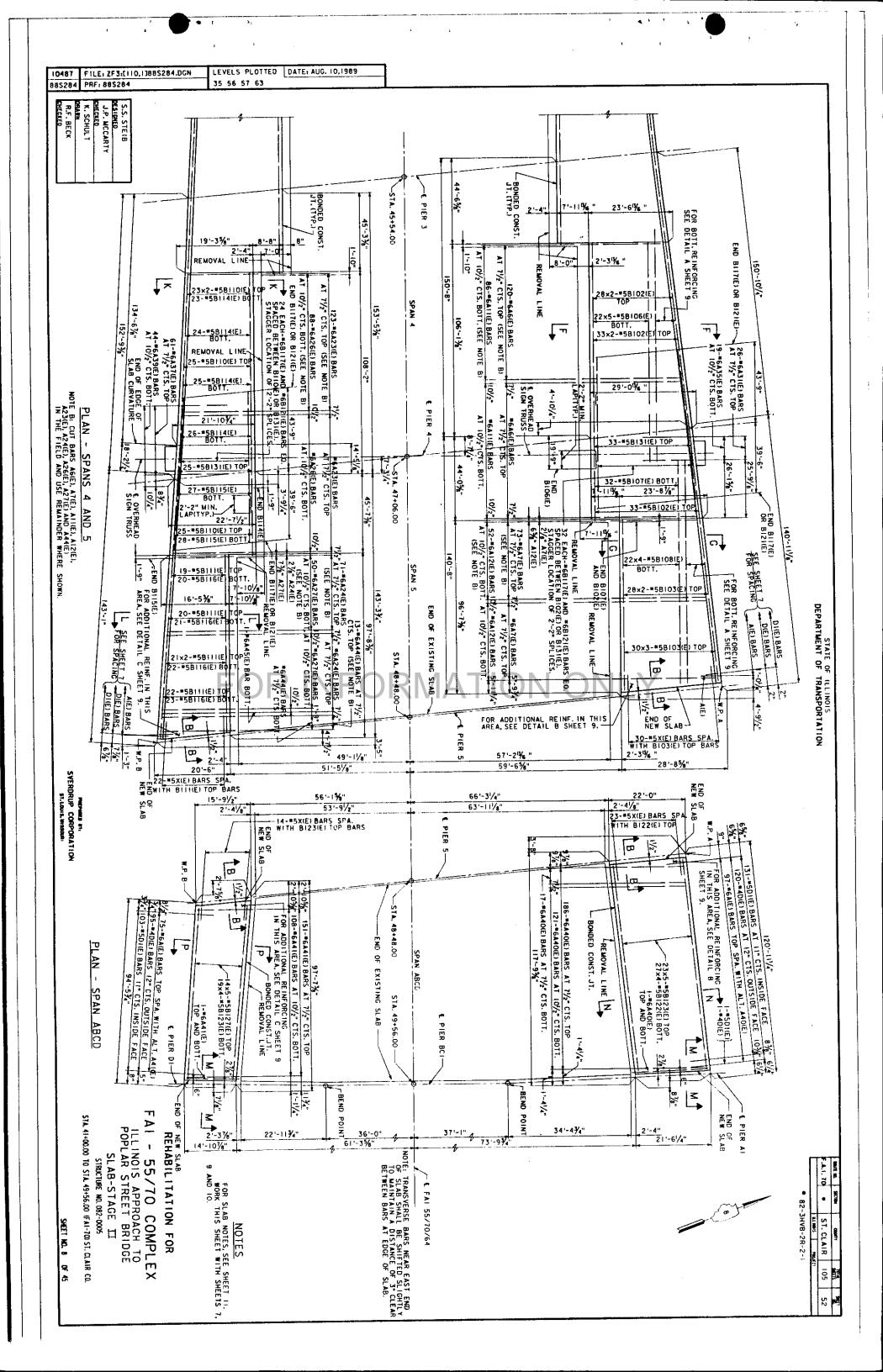


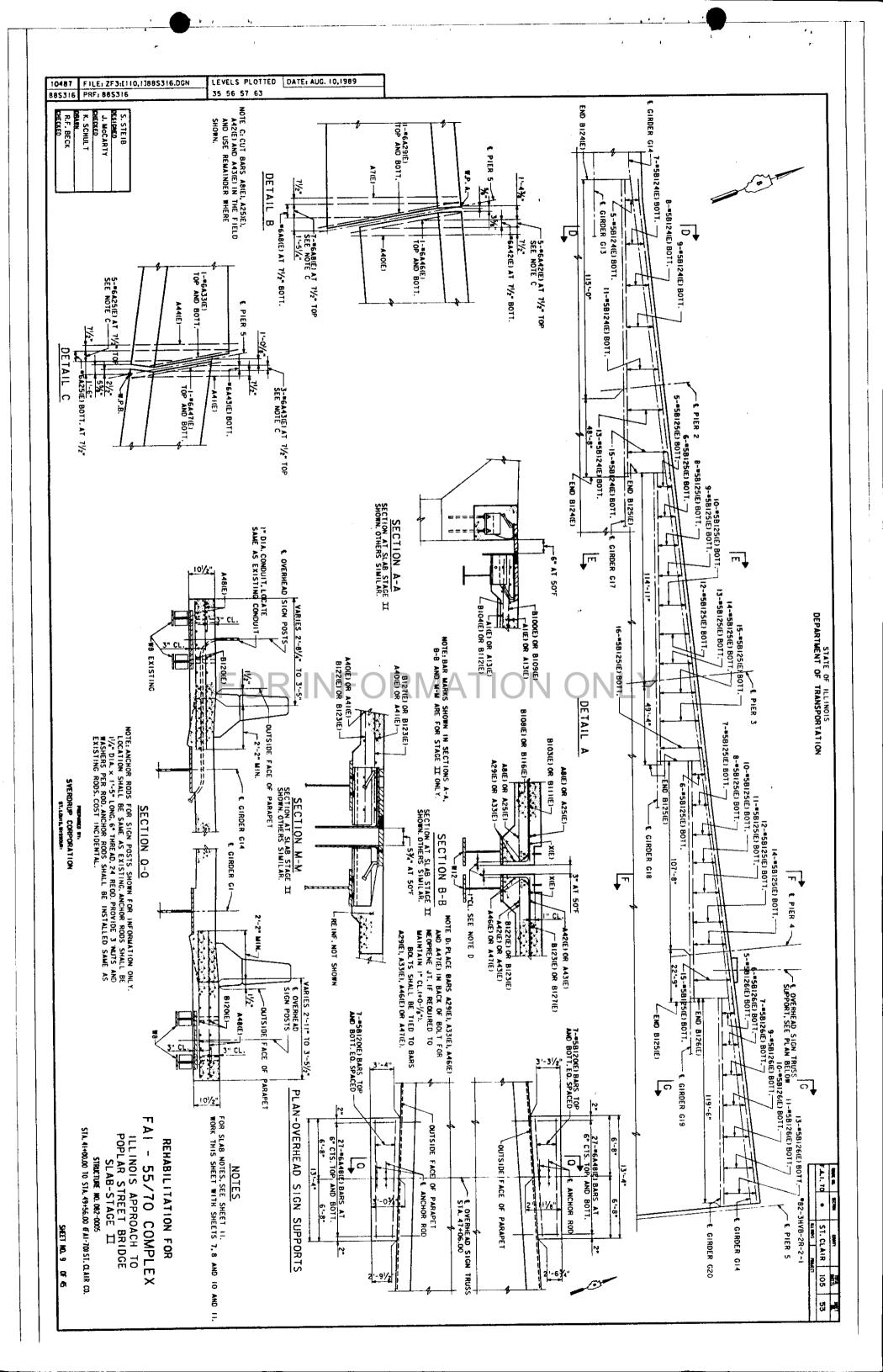


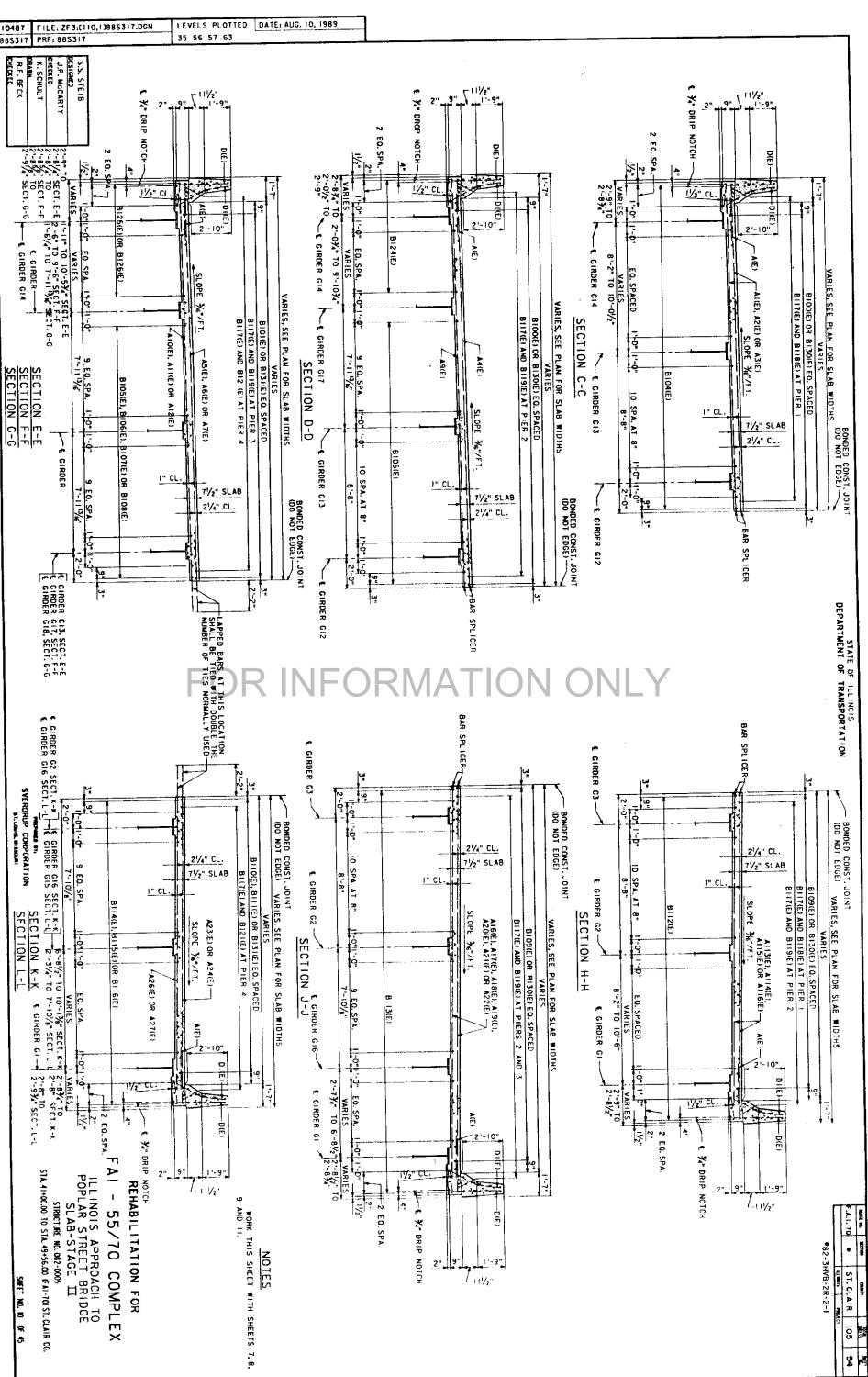




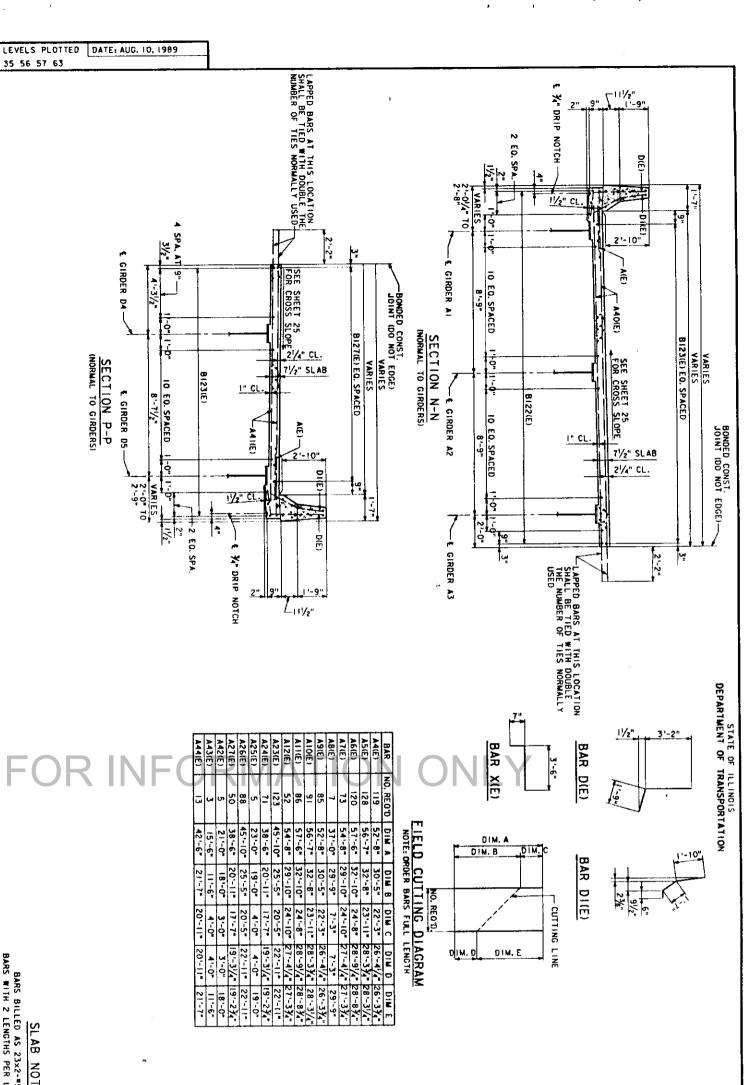








,,



58 76 86 123

#6 25-11"
#6 26'-7"
#6 27'-3"
#6 27'-11"
#6 29'-16"
#6 23'-0"
#6 38'-6"
#6 38'-6"
#6 38'-6"
#6 38'-6"

100'-0" CHORD **y**." EDGE OF SLAB

FOR CURVED PORTION OF STRUCTURE EDGE OF SLAB ORDINATES

F1LE: ZF3:(110,1)88S321.DGN PRF: 88S321

S.S. STEIB J.P. McCARTY . SCHULT

MECKED

35 56 57 63

€ GIRDER D4

SECTION P-P

€ GIRDER D5

REINFORCEMENT BARS MARKED (E) SHALL BE EPOXY COATED.

X(E) 89 #5
BX(E) 336 #5
CLASS X CONCRETE
SUPERSTRUCTURE
REINFORCEMENT BARS
EPOXY COATED

CU. YDS. LBS.

352,440 983.8 1839

BARS BILLED AS 23x2-45 ETC, INDICATES 23 LINES OF BARS WITH 2 LENGTHS PER LINE.

DIREDBARS LOCATED NEAR ENDS OF PARAPET SHALL BE SET BACK TO CLEAR BLOCKOUT FOR EXPANSION JOINT BY 1".

LONGITUDINAL BARS SHALL BE LAPPED SPLICED 1'-9" MIN.

EXCEPT AS NOTED FOR ADDITIONAL BARS OVER PIERS.

BARS SHALL BE CUT TO CLEAR DRAINS AND EXPANSION

JOINT STEEL WHERE NECESSARY.

BAR SPLICERS ARE TO BE USED WITH BARS AI(E)

THRU A4(E), A9(E), A13(E) THRU A2(E) IN STAGE II (2297 REC'D.).

BAR SPLICERS ARE TO BE USED WITH BARS A60(E)

THRU A66(E) AND A68(E) IN STAGE III (4115 REC'D.).

BAR SPLICERS ARE TO BE USED WITH BARS A400(E)

REHABILITATION FOR

SHEET NO. 11 OF 45

SVERDRUP CORPORATION
ST.LBHS.WSSOAN

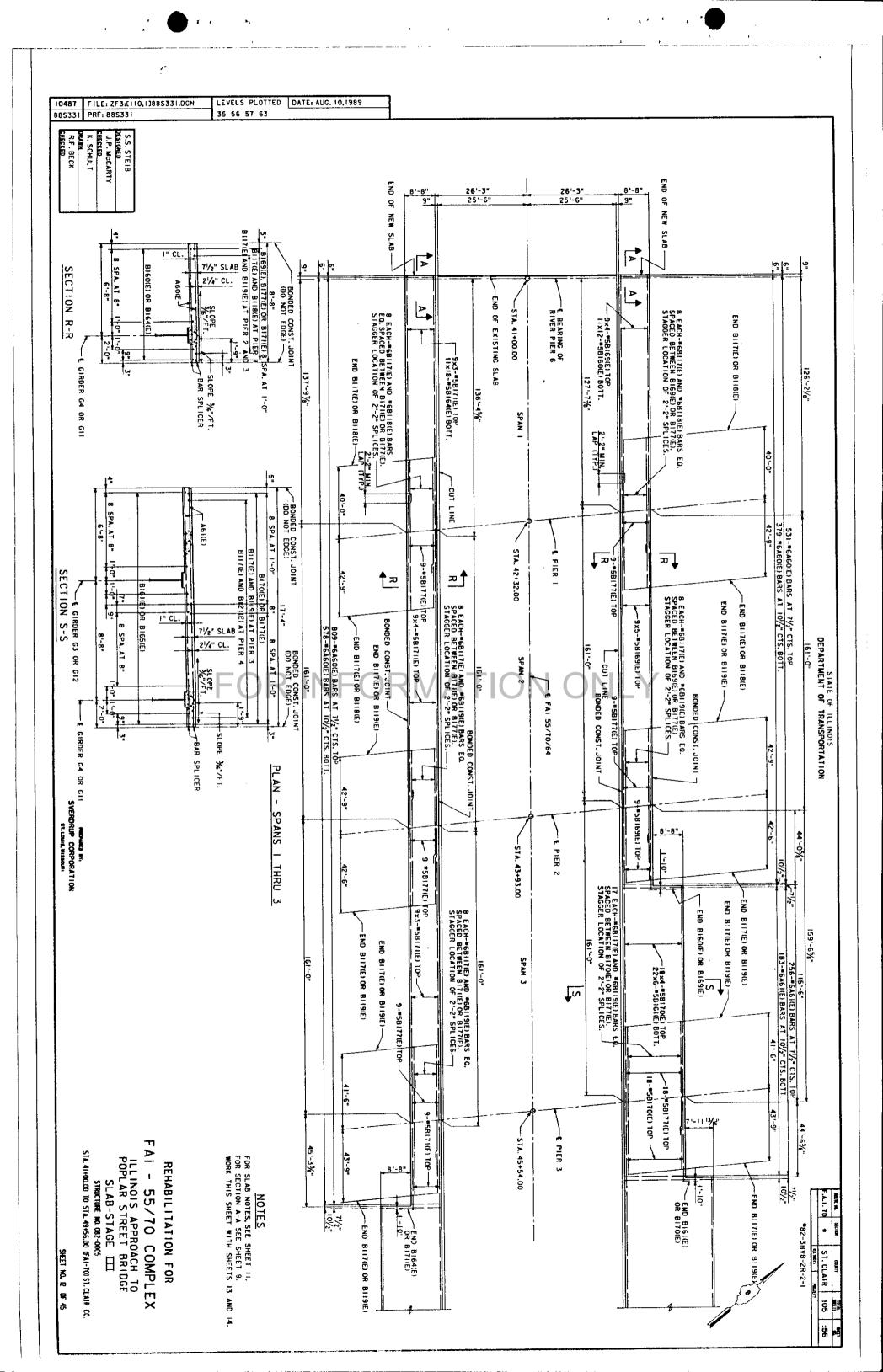
#A.1.70 • ST. CLAIR 105 55

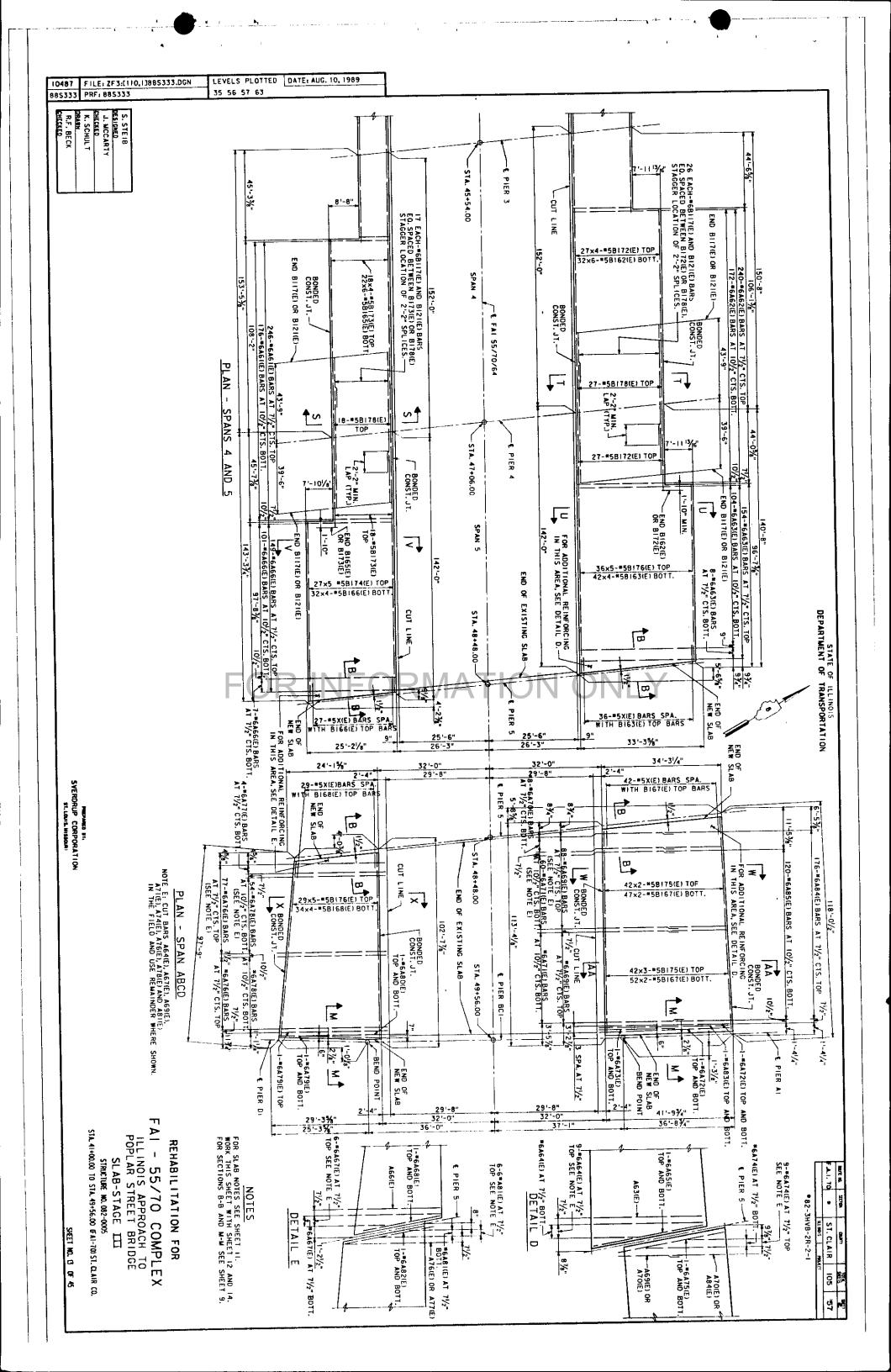
#82-3HVB-2R-2-1

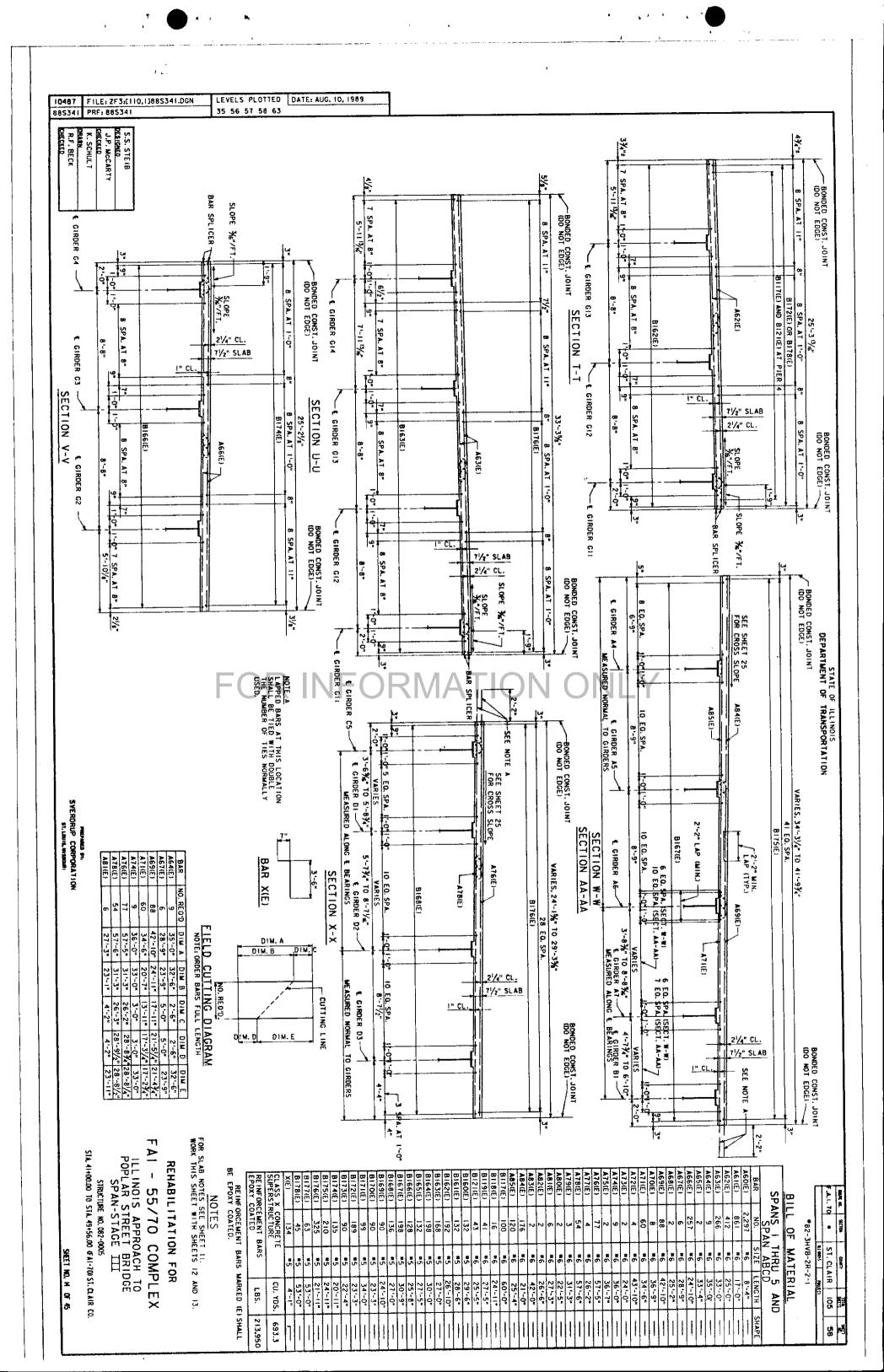
SPANS I THRU 5 AND SPAN ABCD

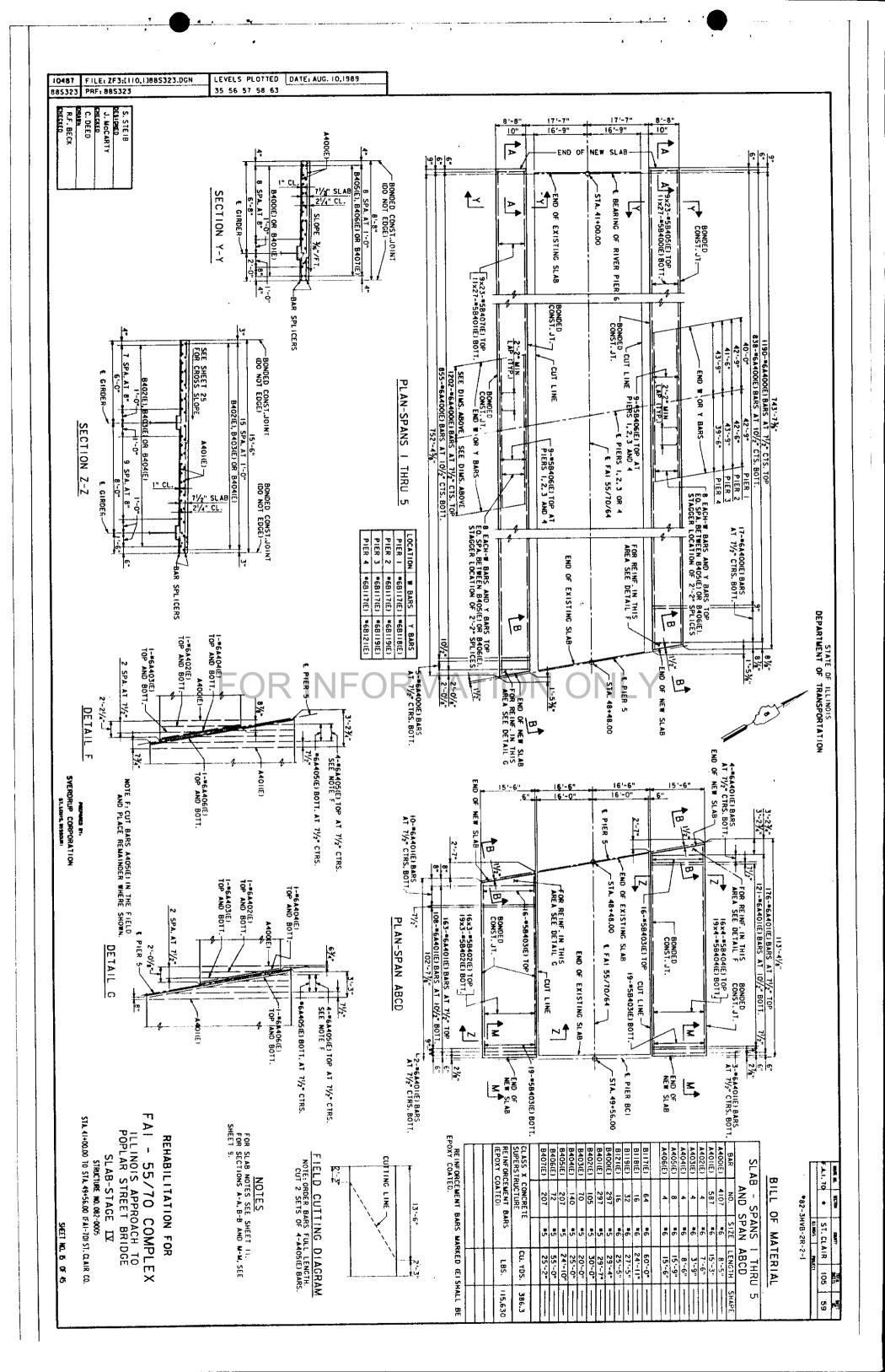
BILL OF MATERIAL

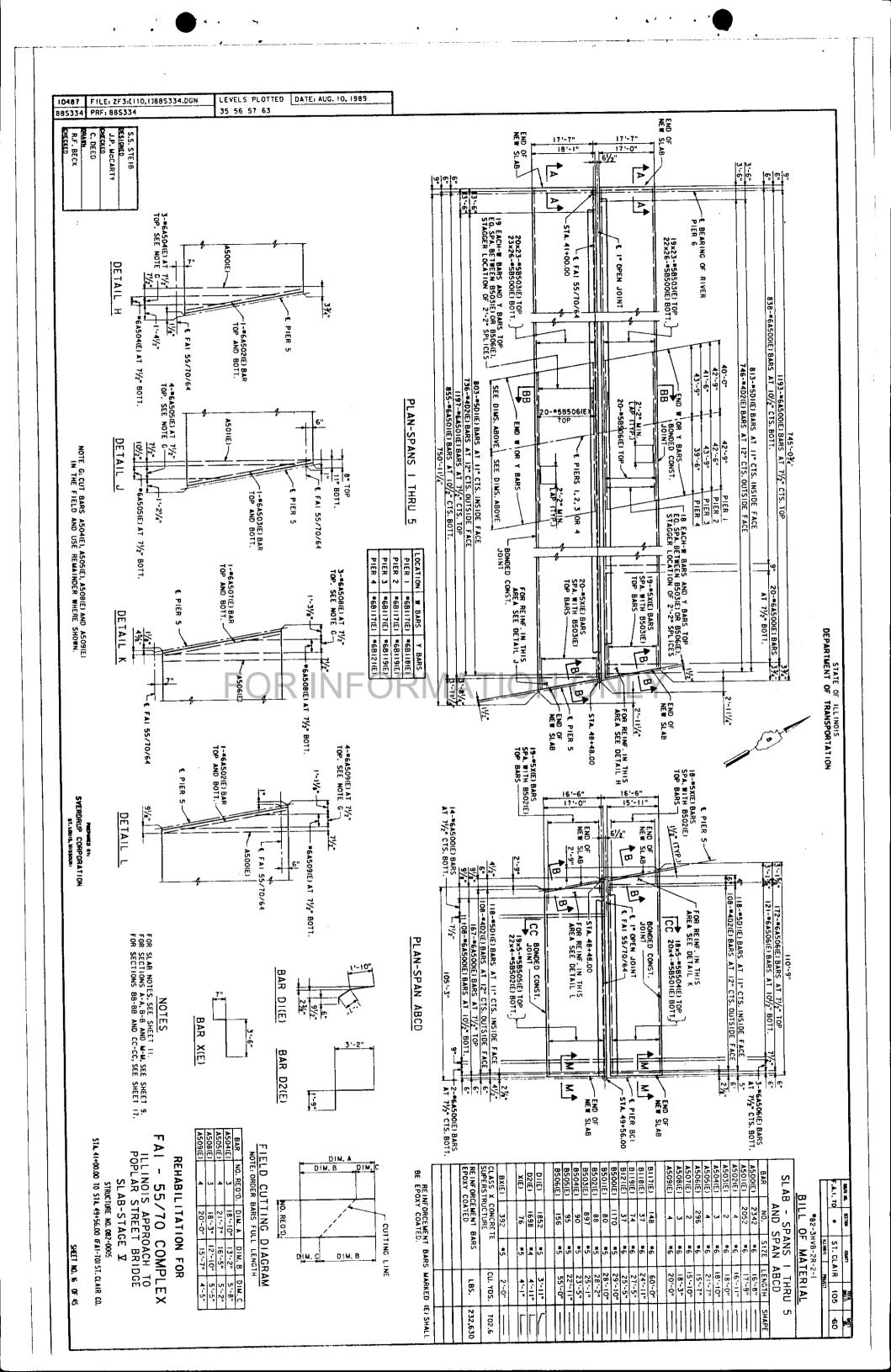
FAI - 55/70 COMPLEX STA. 41+00.00 TO STA. 49+56.00 (FA)-701 ST. CLAIR CO. ILLINOIS APPROACH TO POPLAR STREET BRIDGE SLAB-STAGE II STRUCTURE NO. 082-0005

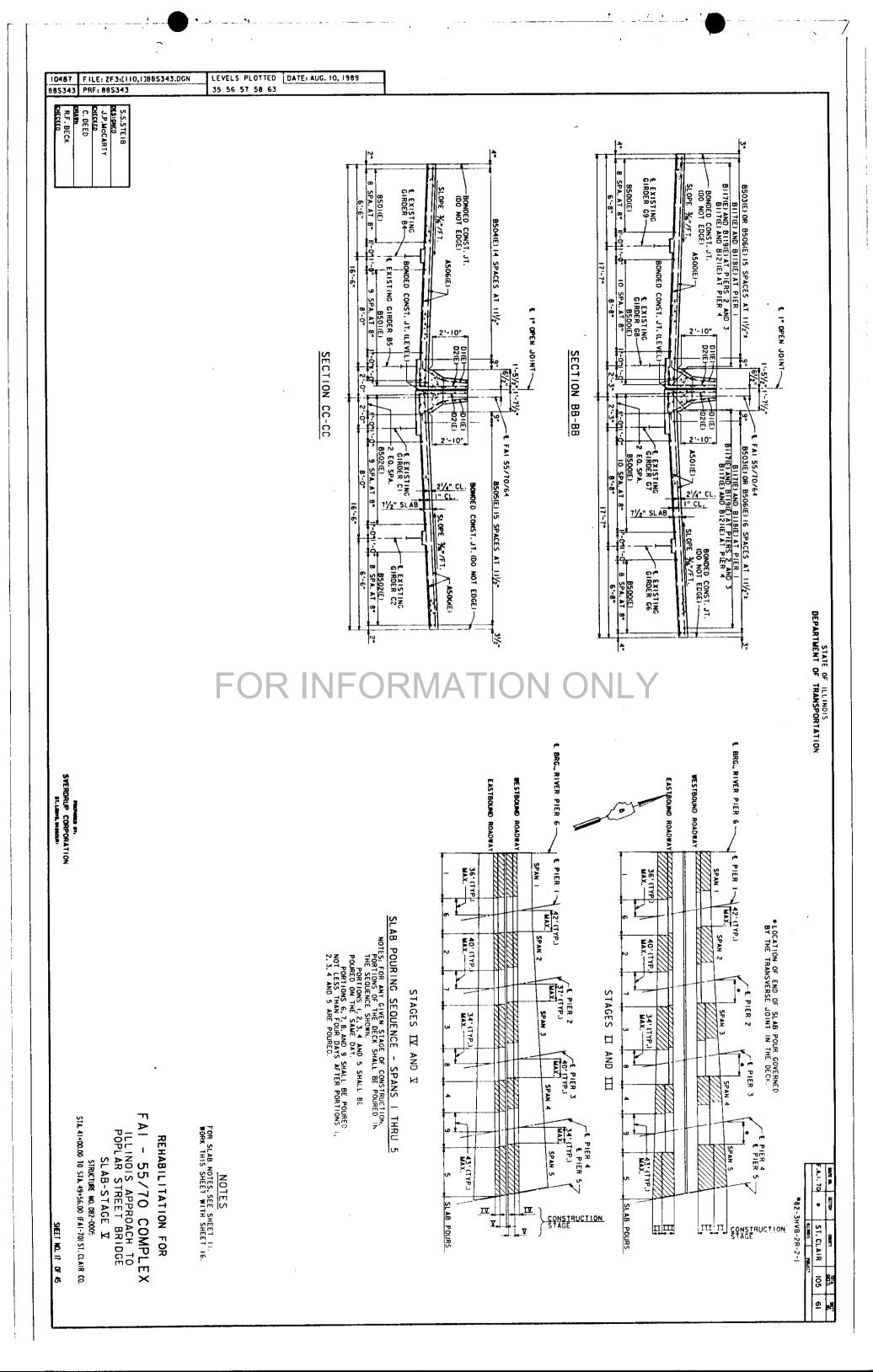


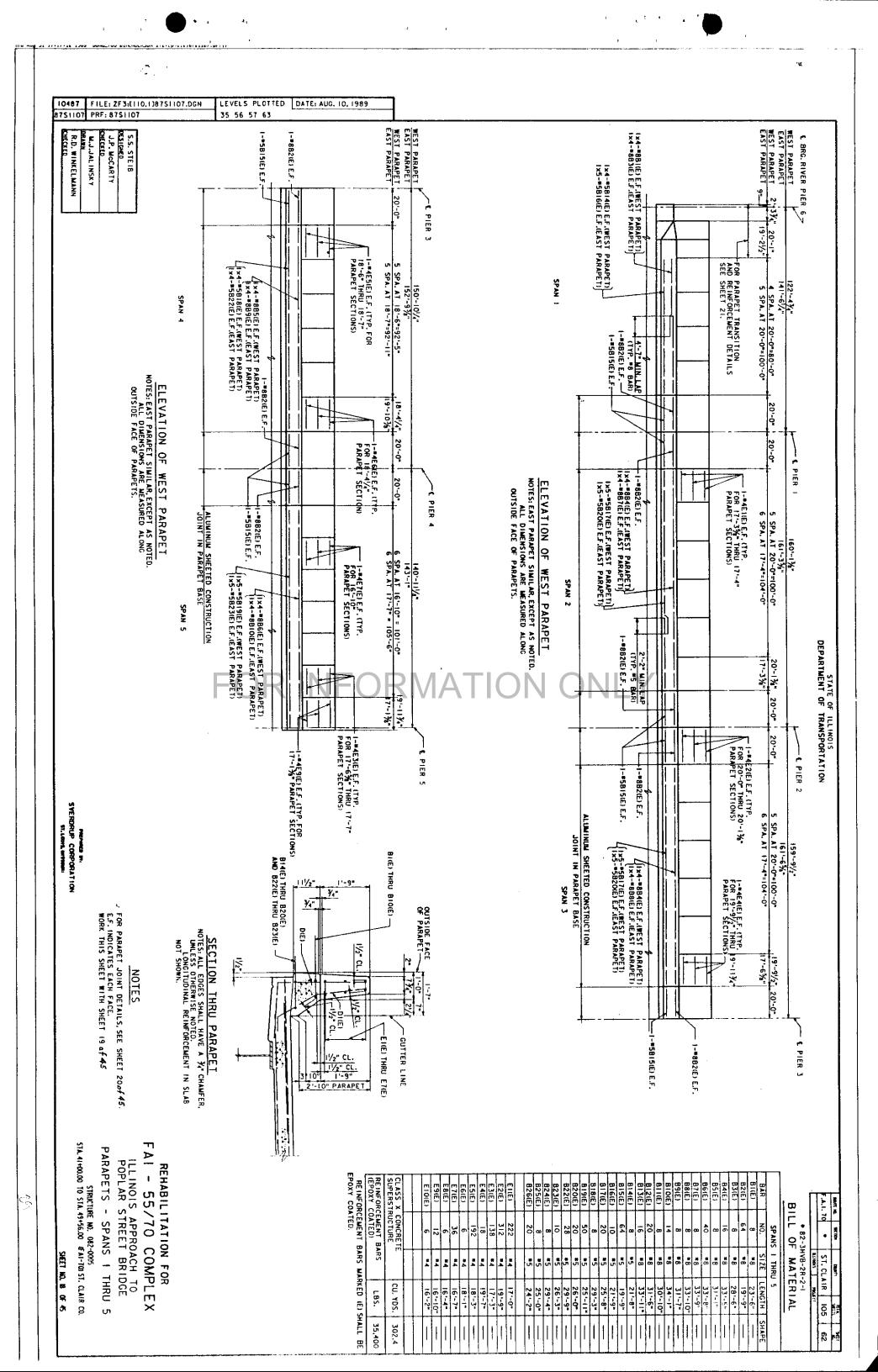


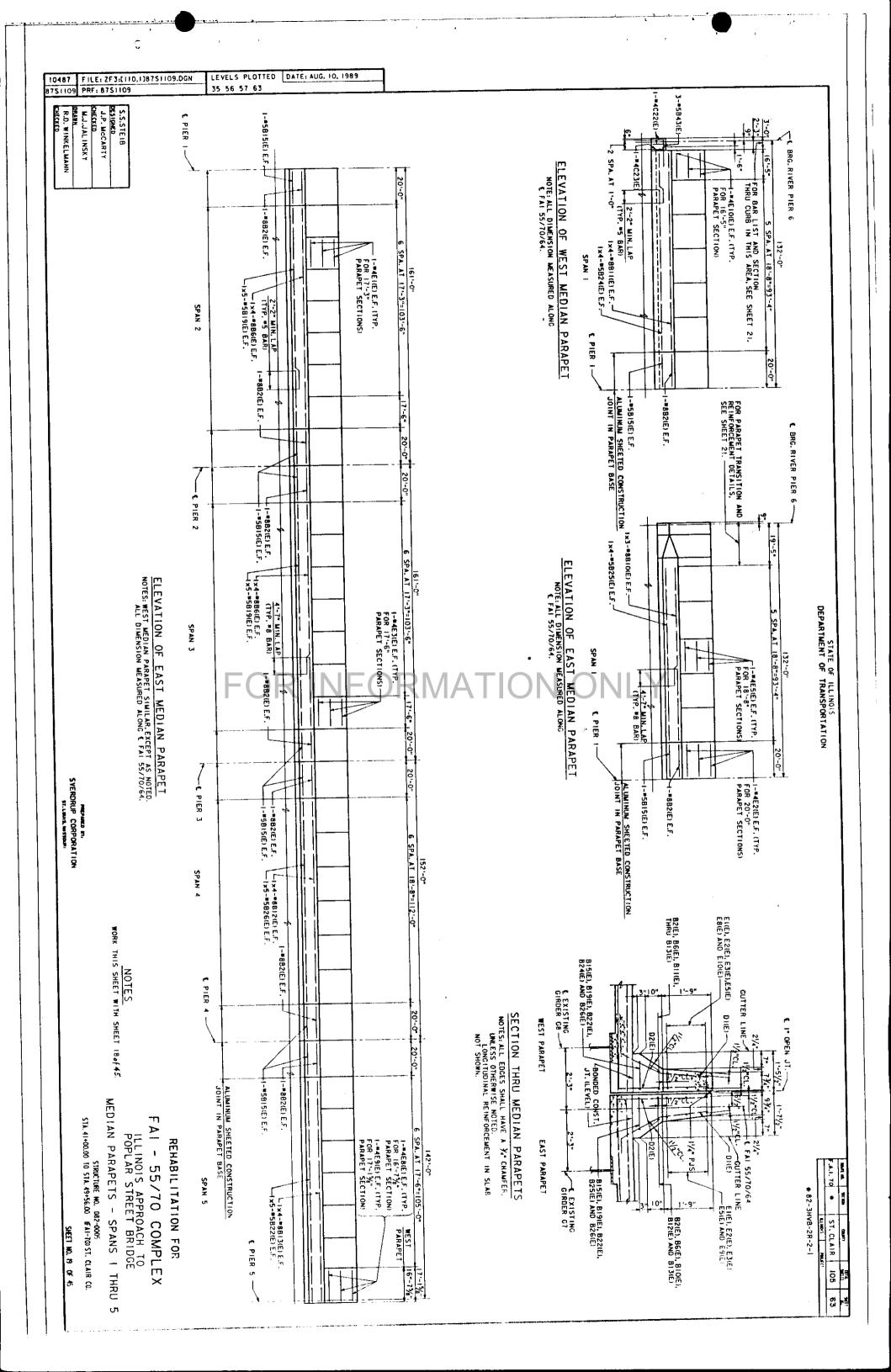


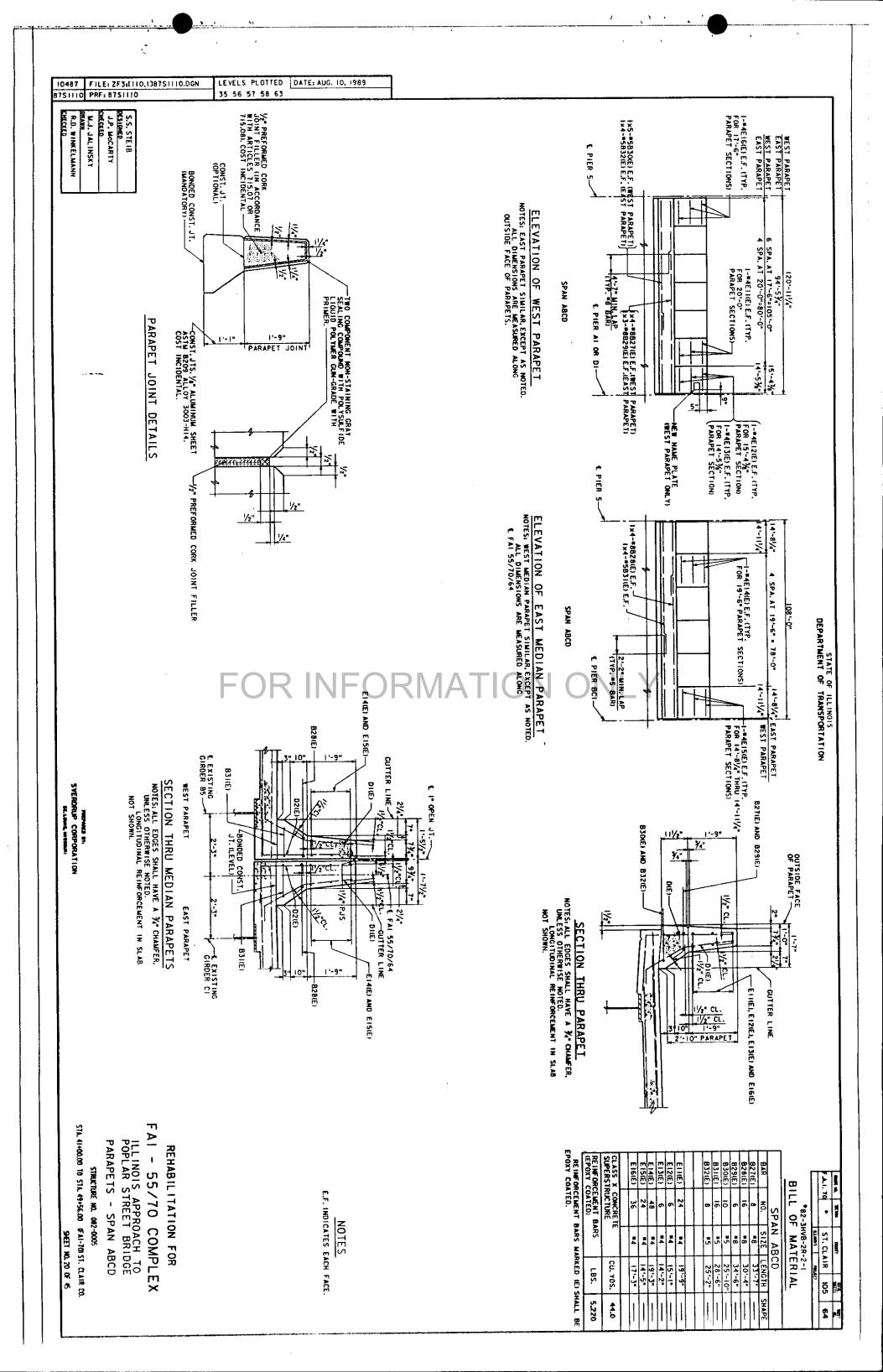


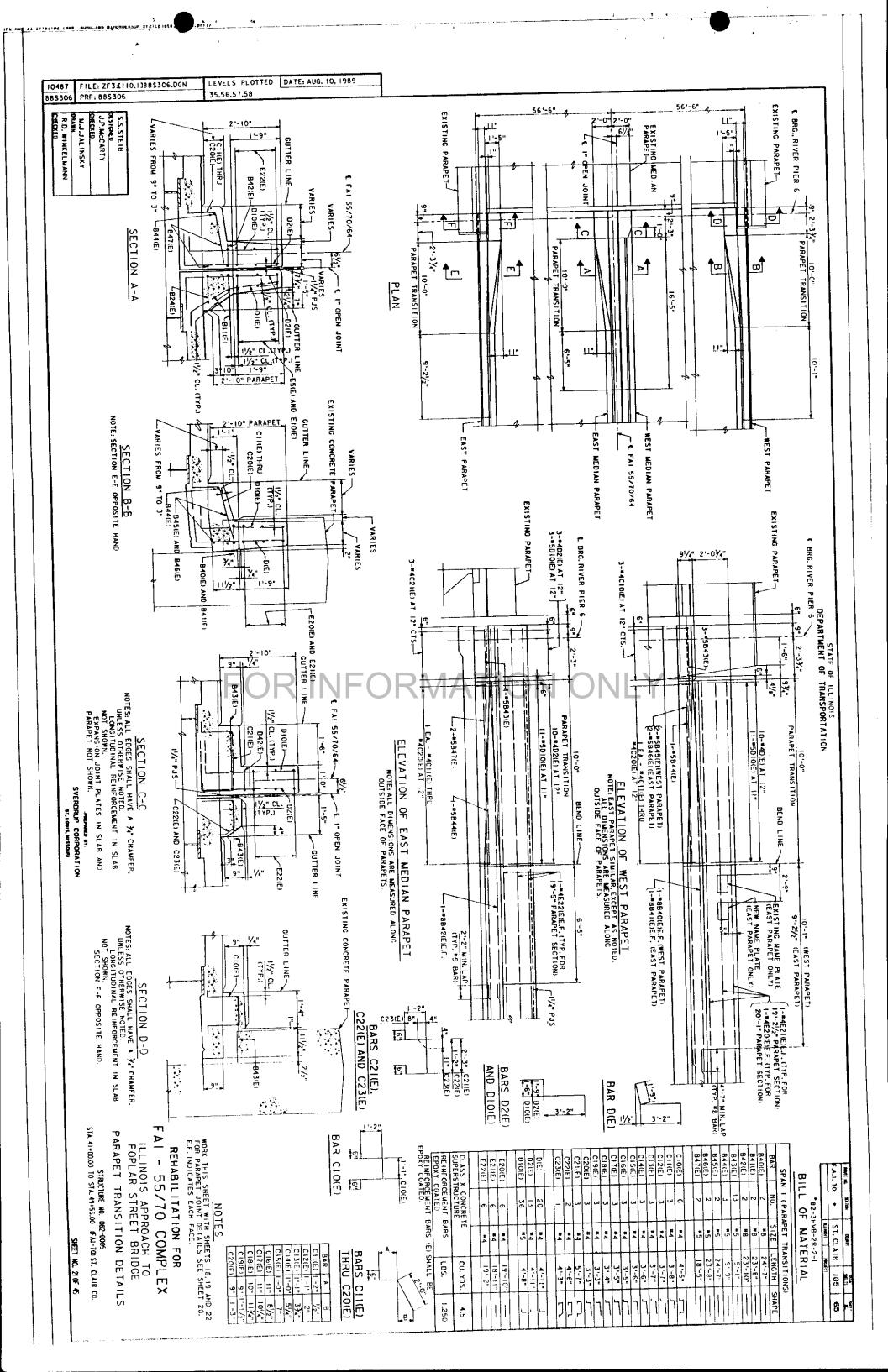


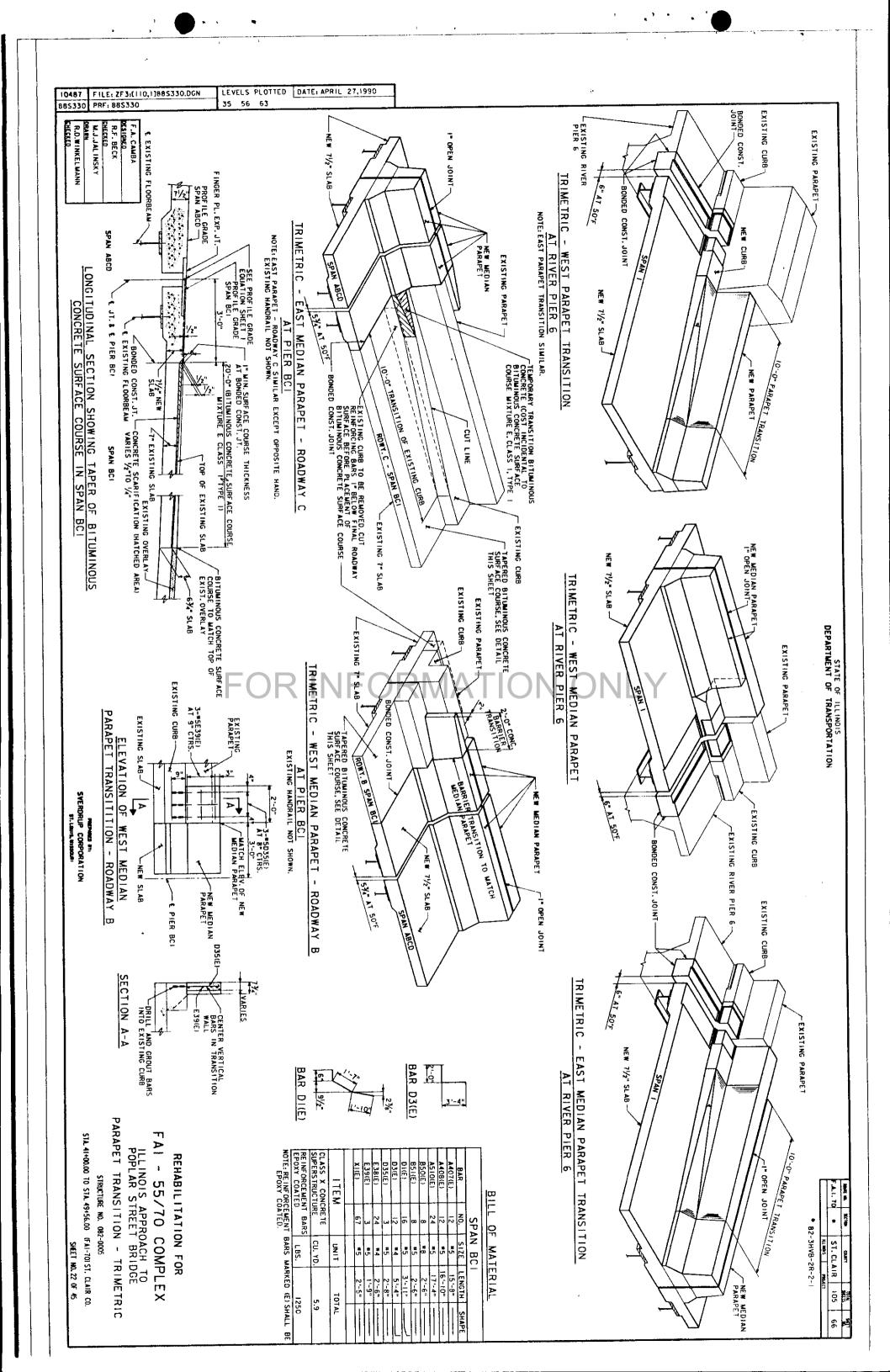


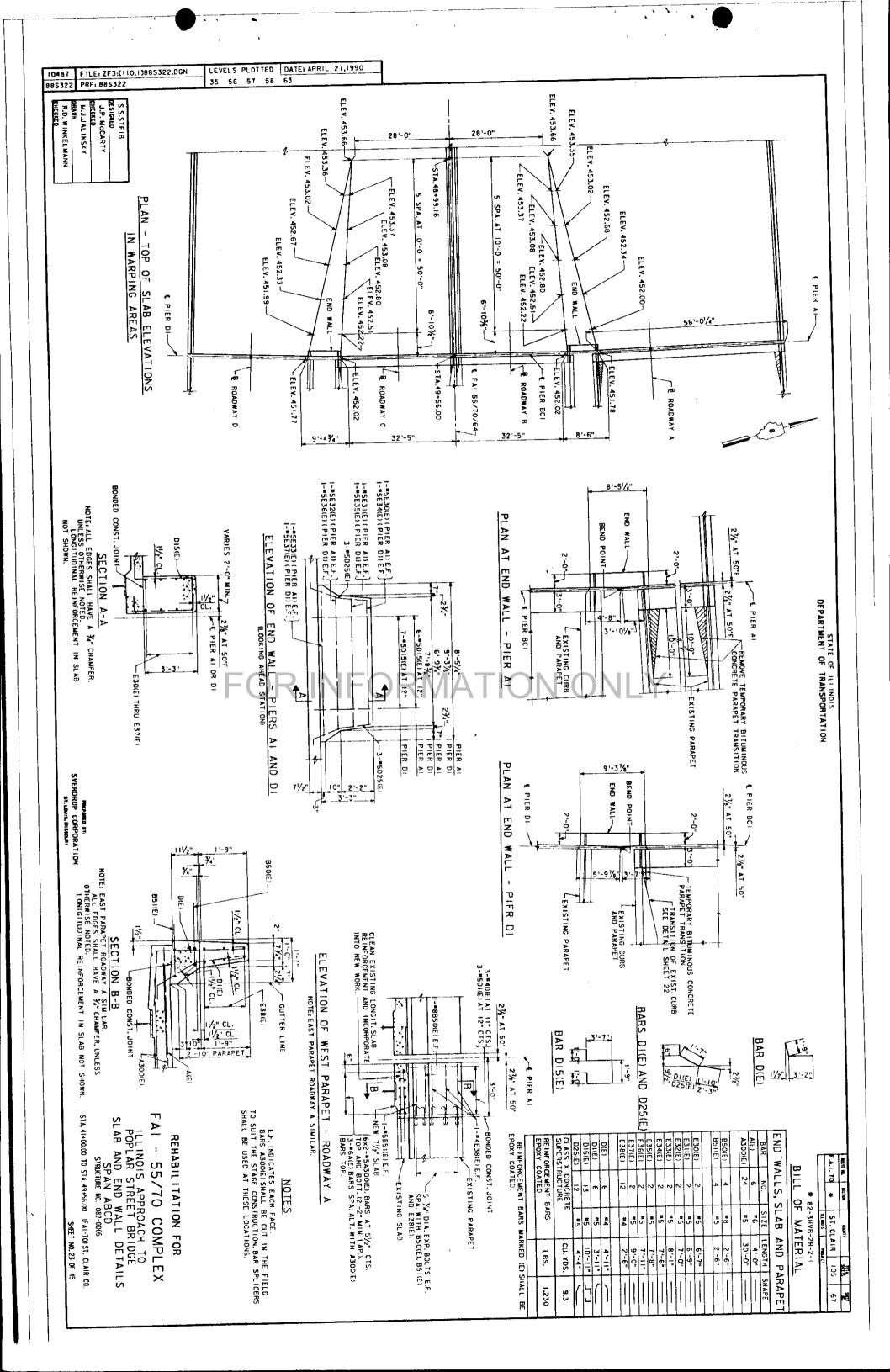


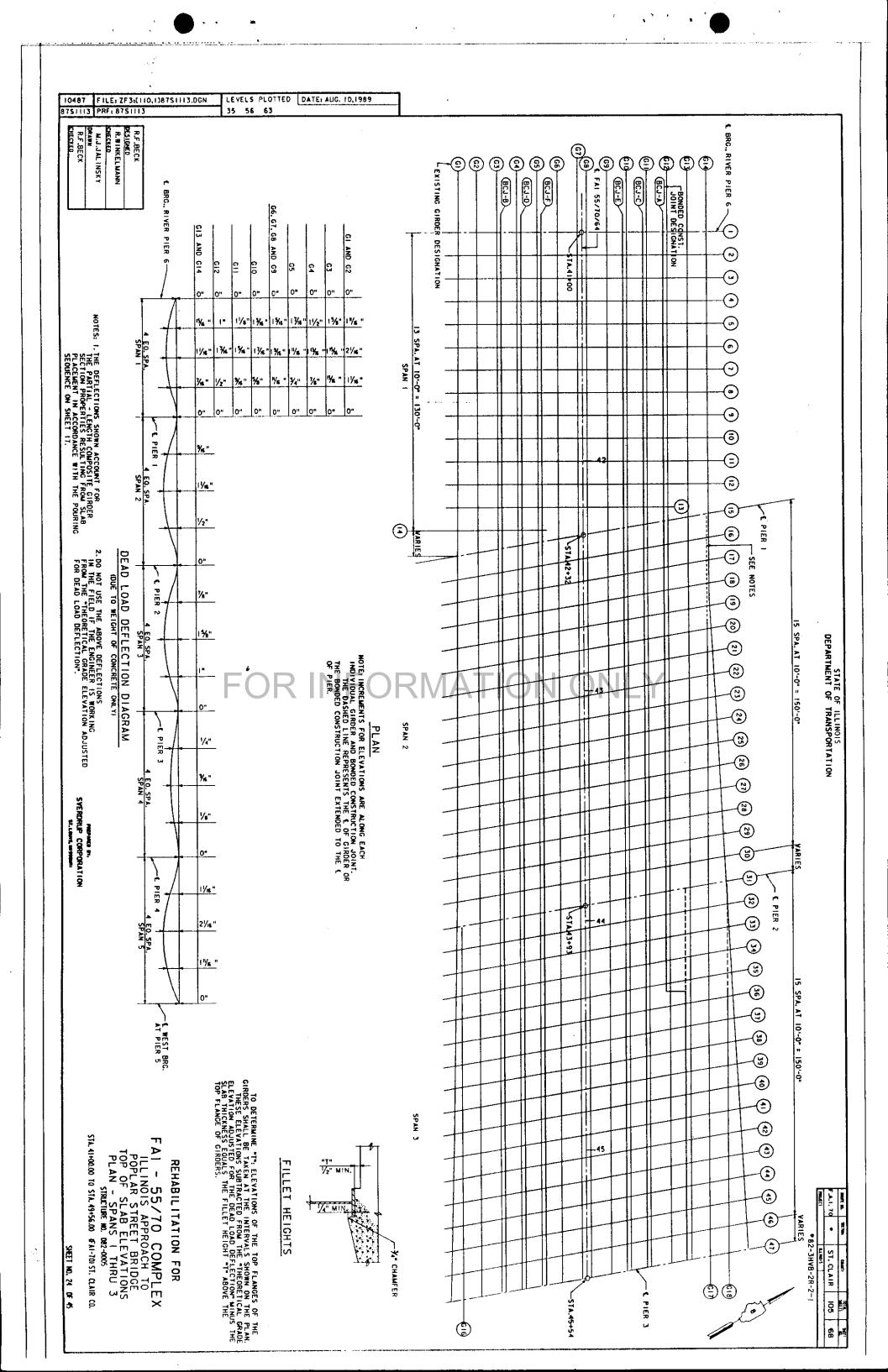


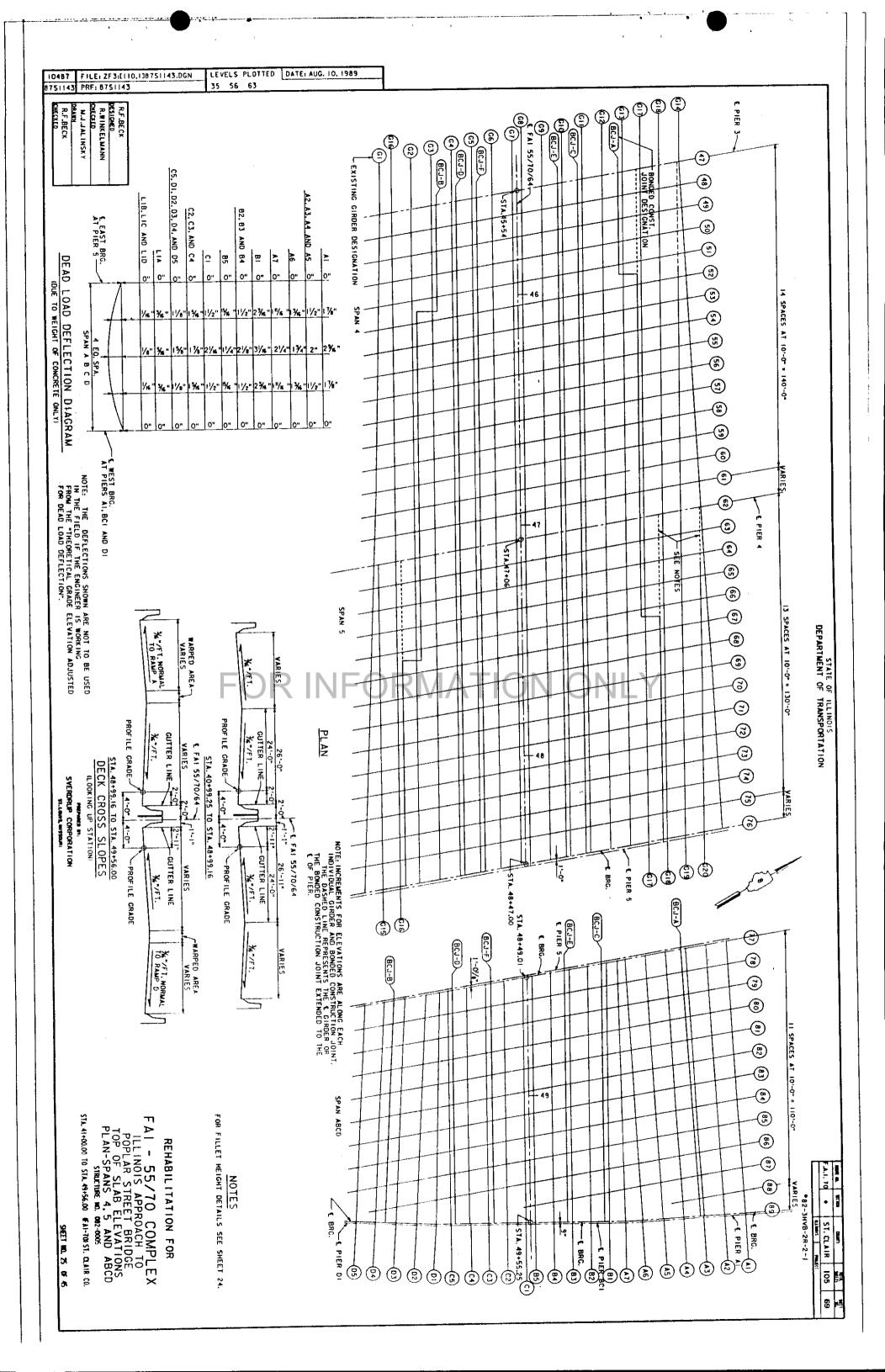












ST. CLAIR 105 70

•82-3HVB-2R-2-I

9 0	58 68 68 68 68 68 68 68 68 68 68 68 68 68		1	5 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		: 2 8 8 8 9 7 2 2 8 8	######################################	614 614 614 614 614 614 614 614 614 614	2 = 1/2 4 6 1/2 E G F	ATION ATION ATION ATION ATION ATION ATION
	222222	<b>ដូនផ្គង់ដូន</b> ជួនជួន ខេត្ត	ផធជជជជជជ	សឥសសសសស	តសស់សីសីសីសីសីសី	:::::::::::::::::::::::::::::::::::::::		5555 <b>5</b> 555555	555555555	Z.
emedia emedia	4 9 P 8888888 8888888	5 5 5 5 5 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8	88888888 4 7 4	614 617 617 617 613 614 614	98 <b>5</b> 8 <b>5</b> 888	614 614 614 614 614	28852585 4 4 4	98 98 98 98 98 98 98 98 98 98 98 98 98 9	88888888 4 9 6	LOCATION
ID CORPORATION	\$\$ \$4.50 \$\$\$ \$\$\$\$ \$	######################################	000 000 000 000 000 000 000 000 000 00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	888 888 888 888 888 888 888 888 888 88	**************************************	**************************************	41-90,000 41-90,000 41-90,000 41-90,000 41-90,000 41-90,000 41-90,000 41-90,000	######################################	STATION
ĝ.	7. 563	917 917 917 917 917 917 917 917 917 917	54, 55 54, 55 54, 59 54, 59 54, 52 55, 52 56, 56, 56 56, 56 56, 56 56, 56 56, 56 56, 56 56, 56 56, 56 56	######################################	本 36.997 36.997 36.250 36.25	7,585 7,585	2017 2017 2017 2017 2017 2017 2017 2017	2.26 2.26 2.26 2.26 2.26 2.26 2.26 2.26		<b>OFFE</b> T
	472 778 473 048 473 049 473 184 473 184 473 186 473 056	473 145 473 010 473 010 473 145 473 289 473 286 473 488 473 230 473 230	473,000 473,137 473,300 473,360 473,360 473,260	473.86 473.66 473.66 473.60 473.60 473.87 473.87 215	13.25 13.25	473, 484 473, 686 473, 715 473, 818 473, 838 473, 838 473, 738 473, 738 473, 738	473, 440 473, 707 473, 707 473, 843 473, 819 473, 819 473, 560 473, 444	473 664 473 664 473 664 473 665 473 665 473 665 473 766		THEORETICAL GRADE ELEVATION
	77.02 88.27 88 88.27 88 88 88 88 88 88 88 88 88 88 88 88 88	73.00 73.00 73.00 73.20 73.20 73.41 73.41	77 06 77 77 78 77 78 7	17 20 20 20 20 20 20 20 20 20 20 20 20 20	12	73.88 73.78 73.78 73.78 73.78	73.55 73.55 73.55 73.55 73.75 73.75 73.75	473 738 473 971 473 981 473 982 474 008 474 008 473 888 473 888	473.78 473.915 474.008 474.162 474.162 473.889 473.889	THEORETICAL GRACE BLEVATION ADJUSTED FOR DEAD LOAD DEPLECTION
	:	ಕೆ ಹ ಹ ಹೆ ಹ ಹ ಹ ಹ ಹ ಹ ಹ ಹ	<b>,</b>	<b>3</b> 33333333		555 <b>55</b> 55555	. ನ ನ ನ ನ ನ ನ ನ ನ ನ	ភព <b>ថេ</b> ថិថិថិ	រ <b>ផ្</b> ផ្គឺក្នុង ខ្លួន ខេត្ត	C.
		요요요 요요요 요요요 요요요 요요요 요요요 요요 요요 요요 요요 요요	388888888 4 4 4	801-6 801-6 801-6 91-6	# P P 838282852883	80-4 80-4 80-4 612 613 614	298 <b>5533</b> 898	980-6 80-6 90-6 90-6	# ÷ # #################################	LOCATION
FAI - I		រត្តពុក្សពុក្សពុក្សពុក្សពុ	ក្នុក្សភ្លេក្សភ្លេក ក្រុក្សភ្លេក្សភ្លេក	*********		\$2.00 \$2.00	0.000	6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	た41,05 た9 km is た9 km is た9 km is た9 km is た9 km is 20	STATION
55/70 COMPLEX 401S APPROACH TO AR STREET BRIDGE F SLAB ELEVATIONS STRUCTURE NO. 082-0005 TO STA. 49+56.00 FAI-TOIST. CLAIR CO.	REHABIL ITATION FOR	200 200 200 200 200 200 200 200 200 200	24, 917 24, 917 24, 917 26, 250 17, 563 10, 917	170,917 170,917 179,983 179,983 179,917 179,917 179,917	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10,917 17,883 17,883 18,280 18	ママママママママママママママママママママママママママママママママママママ	2 2 26 17 2 917 17 2 918 18 2 26 28 2 26 28 2 27 28 2 917 28 2 917 28 2 917	4484844 8864 8864 8864 8864 8864 8864 8	
55/70 COMPLE OIS APPROACH TO R STREET BRIDGE SLAB ELEVATIONS RRUCTURE NO. 082-0005	FOR	472 005 472 203 472 213 472 344 472 386 472 585 472 485 472 365 472 365	472.186 472.186 472.286 472.286 472.286 472.286	47.88 47.88 47.88 47.78 47.78 47.88	47, 98 47, 29 47, 29 47, 29 47, 29 47, 29 47, 28 47, 28	472, 687 472, 817 472, 817 472, 986 472, 907 473, 917 472, 915 472, 915 472, 701	47.266 47.266 47.266 47.272 47.266 47.266 47.266	472.748 473.086 473.086 473.086 473.186 473.186 473.186 473.186	472.982 472.980 472.900 473.000 473.000 473.000 473.912 472.912	, ,
CLEX ONS		472,060 472,248 472,249 472,2419 472,419 472,561 472,561 472,360 472,360 472,360	472.000 472.000 472.221 472.352 472.353 472.237 60	472.647 472.647 472.78 472.73 472.73 472.73 472.66	6,555,555,555,555,555,555,555,555,555,5	472 986 472 986 472 986 472 986 472 986 472 986 472 986 472 823 472 823	472.488 472.638 472.638 472.807 472.782 472.782 472.650 472.612 472.612	472. 248 473. 086 473. 086 473. 284 473. 186 473. 186 473. 186	472, 861 472, 861 473, 900 473, 014 473, 014 473, 912 472, 912 472, 912 472, 912	THEORETICAL GRACE BLEVATION ADJUSTED FOR DEAD LOND DEFLECTION
					\$	<del>,</del>				

\$\\\ \frac{1}{1} \cdot \

SVERDRUP CORPORATION

TENTION

EDWIN

EDWIN 700 PER PROPER PROPER PROPER PROPERTY P

LEVELS PLOTTED DATE: AUG. 10, 1989

R.F. BECK
DESIGNED
R.D. WINKELMANN
CHECKED

FILE: ZF3:[110,11885307.DGN

PRF: 885307

10487 885307

> NI.J.JALINSKY STEIB

SHEET NO. 26 OF 45

그 년

\*82-3HVB-2R-2-1

中国中国 (1) 中国 (1) ## 172 ## 173 ## 

取取某种体质,不是有效性的原则,可以可以可以可以可以使用的原则,可以使用的原则,不是不是不是的原则,不是不是不是的原则,不是不是不是的原则,但是不是不是的原则,但是是不是的原则,但是是不是的原则,但是是不是的原则,但是是不是的原则,但是是不是的原则,但是是是不是的原则,但是是是不是的原则,但是是是不是的原则,但是是是不是的原则,但是是是不是的原则,但是是是不是是是是一种的原则,但是是是不是是是一种的原则,但是是是一种的原则,但是是是一种的原则,但是是是一种的原则,但是是是一种的原则,但是是是一种的原则,但是是是一种的原则,但是是是一种的原则,但是是是一种的原则,但是是是一种的原则,但是是是一种的原则,但是是是一种的原则,但是是一种的原则,但是是一种的原则,但是是是一种的原则,但是是一种的原则,但是是一种的原则,但是是

THEORETICAL PROPERTY AND SECRET STATE SECRET SECRET

ASEROBORONES ES SOUS ES SE SOUS ES SOUS SE SOU

発表にはいっては、現代を表示を発展している。 1985年 1985年

HERRITOR REPART OF THE PROPERTY OF THE PROPERT

PERFORM PROPERTY OF THE PROPER

\$29335 \ \frac{1}{2} \ \frac{1

ᄀ REHABILITATION FOR

<u>A</u> ILLINOIS APPROACH TO POPLAR STREET BRIDGE 55/70 C OMPL П

STA. 41+00.00 TO STA. 49+56.00 (FA1-701ST, CLAIR CO. STRUCTURE NO. 082-0065 SHEET NO. 27 OF 45

SYERDRUP CORPORATION
ST. LOUIS, MISSOURI

		4				
FILE: ZF3:[110,13885 PRF: 885308	308.DGN	LEVELS PLOTTED DATE: AUG. 10,1989 56 63				
R.F. BECK DESIGNED R.D. WINKELMAN CHECKED M.J.JALINSKY	នឧឧឧឧឧឧ	***************************************	***************************************	N G E E		

GHED D. WINKELMANN Bergown Josephesedersen Joseph

10487 885308

STEIB

新形式的保证的证据的证据的证据的证据的证据的证据的证据的证据的证据的证据的证明证明。 在在在在在在在在在在在在在在在在在在在在在在在的,就是是这种的证明的证明的证明。

SVERDRUP CORPORATION
ST.LOUIS, NISSOUR:

STAL 41+00.00 TO STAL 49+56.00 (FA1-TOLST, CLAIR CO.

SHEET NO. 28 OF 45

STRUCTURE NO. 082-0665

TOP OF SLAB ELEVATIONS

AI - 55/70 COMPLEX

REHABILITATION FOR

POPLAR STREET BRIDGE

FILE: ZF3:[110.1388S309.DGN LEVELS PLOTTED DATE: AUG. 10,1989

PRF: 885309

R.F. BECK
DESIGNED
R.D. WINKELMA
R.D. WINKELMA
CHECKED
M.J.JALINSKY

NKELMANN

885309

STEIB

F.A.1. 70 \*

ST. CLAIR 105

72

**\*82-3**HVB-2R-2−i

F.A.1. 70

. 8

ST. CLAIR

io5 ∰

3 🗃

•82-3HVB-2R-2-[

र्ययस्य स्थान स्था

10487

885310

M.J.JAE

NSKY

SVERDRUP CORPORATI

ş

STA. 41+00.00 TO STA. 49+56.00 (FA1-70) ST. CLASR

8

×

SHEET NO. 29 OF 45

		17, 583 19, 583 29, 250 29, 250 29, 250 29, 250	10 2 2 28 2 2 28 2 2 2 20 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	17, 563 10, 917	00 00 00 00 00 00 00 00 00 00 00 00 00 00	51, 427	61, 241 61, 271	77, 52) 81, 162	\$ 6. 56 55. 55 55. 55 55. 55 55. 55 55. 55 55. 55 55. 55 55 55 55 55 55 55 55 55 55 55 55 55	36, 917 45, 563 53, 568	18 PA 2	17.917 183 183	20 p p 5 20 p 9 p 7 20 p 9 p 7 20 p 9 p 7	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	45, 583 36, 917	S 61.271	B 00.019	75 61 61.582 61.582	45. 582. 682. 683. 683.	9 8 8 9 8 8 9 8 8	10, 917 17, 563 19, 563	12 12 13 13 13 13 13 13 13 13 13 13 13 13 13	1 <del>5</del> 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	8 8 6 5 8 9 5 8 8 7 5 8	65. 441 61, 271 53, 427	87.5 97.5 97.5 97.5 97.5 97.5 97.5 97.5 9	51,568 61,568	28, 250 36, 917 583	26 05 05 05 05 05 05 05 05 05 05 05 05 05	P P P P P P P P P P P P P P P P P P P	28, 250 26, 250 19, 583 17, 583	OFFSET	
		457, 328 457, 322 457, 459 457, 469 457, 400	456, 94 456, 984 143	9,55 9,75 03 03 03	457, 03 457, 210 457, 196	456 731 652 731	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	457, 269 457, 217	457, 460 457, 439 457, 354	457, 700 457, 609 457, 524	457.756 759.756	457.443	457. 383 X21. 383	10.9 10.9 10.9	57. 35 57. 35 58. 35 59. 35 59		\$ 57.50 25.50 25.50	457, 739	457, 909 457, 884 57, 780	<b>15 0</b> 05 05 05 05 05 05 05 05 05 05 05 05 05	57, 743 57, 880	657.633 657.633	10 P	5 5 5 5 B B S 5	457, 053 457, 128 457, 280	457, 869 457, 833	456 154 154 154 154 154	458, 300 458, 300 458, 209	4 4 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	457, 933 457, 941) 57, 864	458, 096 458, 096 458, 095	THEORET SOME GRADE BLEVATION	
		457, 453 457, 495 457, 666 457, 666 457, 573 457, 482	457, 114 457, 1 <i>37</i> 457, 316	457, 277 57, 206	457, 369 457, 369	4576. 904 457. 025	456, 614 456, 701	457. 427 457. 375	457, 618 457, 597 457, 512	457, 858 457, 767 457, 682	457, 917 457, 950	\$57.60 88.78	457, 491 457, 399	457, 654 457, 583	457, 489	457, 148	457.656	457. 873 457. 788	457, 958 457, 958	156, 193 156, 193	457.877 58.014	457, 658 457, 658	555 861	5,5,5,5 5,5,5,5 5,5,5,5 5,5,5,5 5,5,5,5 5,5,5,5 5,5,5,5 5,5,5,5 5,5,5,5 5,5,5,5 5,5,5,5 5,5,5,5 5,5,5,5 5,5,5,5 5,5,5,5 5,5,5,5 5,5,5 5,5,5 5,5,5 5,5,5 5,5,5 5,5,5 5 5,5 5 5,5 5 5 5 5,5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	457. 187 457. 262 457. 424	457, 975 457, 999	456 250 456 250 145 250	456, 498 456, 406 315	458, 328 458, 328	458. 099 457. 947 457. 970	458, 216 458, 202 458, 131 458, 110	DEPLECTION DEAD LONG DEPLECTION DEAD LONG DEPLECTION	THEORET (CAL
	22	ដដដដដ	ሬ ይ	888	866	1 K K	555	: : : :	222	ឧឧឧ	ឧឧឧ	122	222	1222	1772	1333	1722	1223	<b>44</b> 2:	222:	222	<b>6</b> 86	8881	8888	SKK	5 <b>6</b> 68	KKK	<b>ይ</b> ይይ	ይዩዩዩ	88	\$ \$ <b>\$</b> \$	E	
	8 <b>8</b>	28828 582883	g 91 <b>4</b>	សូន សូន	817 817	612 612	66 E	8898	858	ម្និក្ស	85.5 85.5 85.5 85.5 85.5 85.5 85.5 85.5	615	9.60 80 40 80 80 80 80 80 80 80 80 80 80 80 80 80	8 6 5 5 8 6 5 5	922		888	18 <b>8</b> 1	9 12 13 13 13 13 13 13 13 13 13 13 13 13 13	ឧសគ្គ	ନୁଣ୍ଡ ଜଣ	2 8 S	618 618-4	92	F 5 F	8896	F 8 F	¥88	# 등등등	616 82	617 618 619	LOCATION	
		48-24, 917 48-24, 917 48-24, 1983 48-22, 1608 48-22, 161 48-20, 715																														STATION	
	86 05 26 05 26 05	61, 271 51, 427 36, 588 36, 917	83, 332 87, <b>84</b> 1	78.5 58.5 88.5 88.5 88.5 88.5 88.5 88.5	255 255 255 255 255 255 255 255 255 255	# B B 2 08 0 2 08 0	17. 583 19. 583	10 00 10 10 00 10 10 00 10 10 00 10	19.563 17,563	84 84 84 08 08 92 08 08 92	\$1, <b>\$2</b> \$1, <b>\$2</b> \$63	61.271	77.52 72.73 73.73	9 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	## P	8 ¥ ∓ .7 25 83 83	5 P R 9 P R 9 P R 9 P R	17.583 10.917	18 18 18 18 18 18 18 18 18 18 18 18 18 1	51, 427 51, 427	83. Q1 83. Z71	77.52 26.247	5). (3) (4) (5) (6) (6) (6) (6) (6) (6) (6) (6) (6) (6	5 pt 34 pt 5 pt 32 pt 32 pt 32 pt 5 pt 32 pt 32 pt 32 pt 5 pt 32 pt	35 55 55 18 88 50 18 88 50	200 200 200 200 200 200 200 200 200 200	17.563 17.563	28 583 28 2917 280	51.427 51.427 51.427	77, 521 81, 704	953.48 953.48 835.48 835.48	OFFSET	
	\$ \$ 8 8	010 100 100 100 100 100 100 100 100 100	456, 985	690 350 70 950 70 950 7	456 409 456 384	\$ \$ \$ 50 8 8 8 8		100 ON 10	44 44 44 44	456, 310 456, 310		98 98 98 98 98 98 98 98 98 98 98 98 98 9	\$56,259 \$66,359 \$6		10 00 K	\$ \$ \$ \$ \$ \$ 72 \$ \$	9 6 9 9 6 9 9 6 9	1881 1881	\$ 55 610 5 610			456, 669 456, 669	456. 850 850	457. TS	456, 980 457, 022 457, 159	156 SA 166 SA 166 SA	\$ 55.00 80 80.00 80 80 80 80 80 80 80 80 80 80 80 80 8	016 950 (EV 252)	456 456 456 256 456 256 456 256	406, 309 406, 909	457, 224 457, 160 457, 139	THEORETICAL GRACE ELEVATION	
		455, 145 455, 145 455, 145 455, 145 455, 145	456, 149 456, 363	456, 403 456, 318 456, 233	456, 573 456, 488 456, 424	\$ \$ \$ \$ \$ \$ \$ \$ \$		456 236 456 236 457 256	456, 366 207	456, 295 456, 474 456, 460	\$6 \$6 13 \$8 13 \$8	100 Apr. 100		456 73 ¥		65, 68 69, 89 69, 89 69, 89	106, 539 106, 718	65,679 606 607 608	456. 786 706. 771			456, 848 456, 780	457.039 457.018	457. 279 157. 188	457, 159 457, 201	456, 820 456, 843	457, 075 457, 004 456, 983	456, 731 456, 910 457, 089	456, 314 456, 407 456, 569 456, 610	457, 142 457, 082	457, 397 457, 339 457, 312 457, 227	GRADE ELEVATION ADJUSTED FOR DEAD LONG DEFILECTION	MACHINE TO LANGE
	**	KKKKK	ጜጜጜ	688	K K K !	888	አሄአ	***	88	161616	6 16 16	18181	16161	6668	666	616161	616161	4 Z	74 74	222	222	2222	1227	222	222	222	555	ጀቴቴ	בנבב	בננו	בבבב	Ę.	
	619 619	617 612 617 617 618	<u>င်</u> 용답	889	। ଜନ୍ମ	F 2 8	385	ର ଜୁନ ଜୁନ	614 614	619 519 519	613 613	3 <u>2 6</u> 5	<u> </u>	ខ១នទ្ធ	ខេត្ត	ខ្មែនទ	865	2 2(	8 G G G	80 10 10 10 10 10 10 10 10 10 10 10 10 10	2 <b>2 1</b>	S & 8 8	98	18 F R	ឧសឌ	3 5 5	585	617 618	93.5 612.5 61.5 61.5 61.5 61.5 61.5 61.5 61.5 61	8 8 8	8585	LOCATION	
	878 \$ <b>\$ \$</b>	49-40,236 49-40,233 38-34-36 37-38-36 49-37,08-3 727	4 4 4 4 4 4 4 4	5 5 5 5 5 5 5 5	4 4 4 5 4 4 6 6	48-51	44.6 84.6	46.57 46.57 47.57	46.22	5 K K K \$ \$ \$ \$	46.23 25.28 27.28	4 4 4 4 4 4 4 4 4 4	13 13 13 13 13 13 13 13 13 13 13 13 13 1	# # # # # # # # # # # # #	<b>*</b>	444	5.5	46. 125	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	46 F 17 F 1	46-21.	<b>* * * *</b> 0 2 2 8	4 6 6 2 2 7 8		40.00 40.00 40.00	46.54	48-02	48-09. 6-09.	45 45 45 60 60 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 1	45.145 4.156	# 48+18, 934 48+17, 822 48+16, 375 48+15, 625	N STATION	
		38,917 45,997 45,983 61,983																														OFFSET EL	
	988 555	456, 279 456, 279 456, 179 456, 094 456, 090	888 888	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	54.974 903 4.903	668 688	<b>2 2 2 3 3 3 3 3 3 3 3 3 3</b>	7 7 7 8 8 8 8 8 8	65 68 68 68	25 52 52 52 52 52 52 52 52			<b>888</b>		1988 1988	19 65 9 19 65 9 19 65 9	828	# ## # ##	888 888	86 7 88 86 7 88	8881 8881	4444 4358			2 2 2 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4		286 286 286 286 286 286 286 286 286 286	28.85 28.85 28.85 28.85 28.85	8888 8888 8888	75 65 120 120 120 120 120 120 120 120 120 120	455, 741 455, 741	HEGRETICAL	
	<b>2.2</b> 2.28 28.28 28.28 28.28	<b>\$</b> \$\$\$\$ \$\$\$ \$\$\$ \$\$\$ \$\$\$	<b>19 19 19 19 19 19 19 19</b>	454, 834 456, 013	454, 998 154, 974	455, 080 66	2 7 8 2 7 8	<b>12 12</b> 13 13 13 13 13 13 13 13 13 13 13 13 13	165. 225 225. 225	455, 376 455, 396 455, 311	<b>6</b> 8 8	455, 716 749			<b>199</b>	18 5 8 18 5 8	<b>\$ \$ \$</b>		\$ 8 8 3 8 8 8 3	18 18 18 18 18 18 18 18 18 18 18 18 18 1		8 8 3 4 4 5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	15 SE		18 48 33 18 33 18 33 18 33 18 33 18 33 18 33 18 33 18 33 18 33 18 33 18 33 18 33 18 33 18 33 18 33 18 33 18 33	455, 011 28 20 20 20 20 20 20 20 20 20 20 20 20 20	455, 950 455, 905	<b>38</b> 5	\$5,55 28,38 28,38	456, 079 456, 216 456, 258	455, 959 455, 959 455, 877	GRADE  BLEVATION  ADJUSTED FOR  DEAD LOAD  DEFLECTION	איניטטט וכע
				288	seki	1881	ዩዩዩ	<b>ይ</b> ሄቴ	888	ይ <b>ይ</b> ይ!	1333	488;	ጀጀሄ	886	888	6 <b>6 6</b> 6	<b>566</b> 6	388	888	888	* # #	, 6666	: & t	1445	<b>133</b> 3	333:	1333	333	3333	צננו	33 <b>3</b> 3	CIN.	
				≥ & ≤	:B≰§	:≵\$!	9 <b>7</b> 9 20	28 <del>18</del> 28	84 T K	ង មិខិនិ	1989 1989	288 288	₽ 8 <b>2</b> 8	≥83	\$ <del>2</del>	\$ <b>\$</b> \$ 5	· · · ·	# 2 & & :	81 2 K	ង និខភ	유 요양급	មឧម	28 3	គ្និស្ស -	<b>₹</b> 5≨	<b>&gt;</b> = <b>B</b> R	# <b>3</b> 2 2 2	<b>8</b> 28	ያቴያያ	858	<u>ቀ</u> 2588	LOCATION	
=======================================	FAI -	REH/		46-54, 685	46.57.90	48-61, 904	# 63 57 # 63 57	48-67, 345 48-66, 260 48-66, 010	48+70, 663 48+69, 348	48-72 353 48-72 018 48-71, 768	49-74-99	4 4 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	49-73-082	48-46, 154 48-44, 706	48-49, 049	48-50-573 48-51-945	## 52 673 673 673 673 673	48-57.345	48+50, 683 48+59, 348	48-63, 353 48-62, 018 48-61, 758	46-64 270 46-64 888 46-64 888	48-68, 378 48-67, 642	49-70, 55)	4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	48-41, 966 48-40, 518 48-30, 070	46-43-673 46-43-339	49-47, 345 49-45, 260 100	48-49, 348 48-49, 348	46-53, 353 46-53, 353 66-51, 766	48-56, 202 48-56, 272 48-54, 666	48-50, 555 48-59, 110 48-57, 656	STATION	
DIS AP	55/70	REHABILITATION		86 A 48	60, 671 67, 613	## 1888	888 888	#### 888	244 888 888	### \$600	888 888 888	348 868	51.560 20.560 20.560	77. 574 249	8 8 8 8 8 2 8 8	143° 1888 1888	### 888	5 5	888 888 884 8	### #888	E ¥ 3 25 88 25 88	56, 718 52, 313 43, 599	66 743	8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	50 504 50 504 50 504	#### #### ####	###### 8888	888 889 889	₹ <b>₽</b> ₹	37, 067 34, 000	66, 211 60, 496 56, 190 51, 782	<b>GFSET</b>	
APPROACH TO	$\mathcal{C}$	TION FOR		454 166 974	<b>1</b>	<b>\$ \$</b>	\$\$\$ \$\$\$	454 333 454 458	454 233 64 148 188	454, 318 454, 318	<b>4</b>	454 088 8 8 238	453, 556 453, 738	454, 476				154, 758 78, 788	454, 533 454, 448	454, 703 454, 618 602	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	<b>1</b>	A52 B56	\$ 64 877 8 78 78	455, 154 455, 061 454, 969	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	454. 748 454. 748	6466 986 986 886 886 886 886 886 886 886 8	454, 714 454, 828 454, 901	454.354 454.435 454.443	HEGRETICAL	•82-3HVB-2R-2-! π
ō	Y37	<i>ب</i> د		<b>64</b> , 249	<b>111</b>	\$ \$ 8 8	<b>777</b> 555	<b>? ? ?</b>	<b>64,</b> 241 84, 227	454, 454 454, 454	\$ 4 3 5 2 4 3 5 2 7 5	18 7 8 1 18 7 8	453 639 453 818	454, 518 454, 437	454, 703 454, 630	\$ 454, 254 \$ 686, 424 \$ 686, 424	45 65 65 65 65 65 65 65 65 65 65 65 65 65	454, 679 454, 813	454, 576 454, 494 454, 497	454, 547 454, 663	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	<b>44</b> 4	453, 907	454.877 83.785	455, 154 454, 969	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		454, 748 454, 748	64 64 65 65 65 65 65 65 65 65 65 65 65 65 65	454, 714 454, 828 454, 901	<b>454</b> , 354 <b>454</b> , 364 <b>54</b> , 534	GRADE BLEVATION ADJUSTED FOR DEAD LOND DEFLECTION	7-ECRETICAL

64 100 64 100 65

LEVELS PLOTTED DATE: AUG. 10,1989

56 63

885311 PRF: 885311

R.F. BECK
DESIZHED
R.D. WINKELMANN
EMEGLED
M.J.JAL INSKY
DRAW
S.S. STE IB
EMEGRED

ST. CLAIR 105 74

STA 41+00.00 TO STA 49+56.00 GAI-701ST. CLAIR CO. STRUCTURE NO. 082-0065 SHEET NO. 30 OF 45

FAI - 55/70 COMPLEX
ILLINOIS APPROACH TO
POPLAR STREET BRIDGE
TOP OF SLAB ELEVATIONS

																						•						
54,55 62,65 71,463 80,156 80,156	444 888 888 888 888 888 888 888	, , , , , , , , , , , , , , , , , , ,	8888 8888 8848 8848 8848	ree Ree Ree	71.889	R 72 89 R 2037 R 2037	60 to 10 to	# 88 E	888 888	1988 8888	888	<b>≓</b> % €	8 # # £	144 144 144 144 144 144 144 144 144 144	71. 937	56 PG 78 19 78 PG 19 78 PG 10 PG 10 PG 10 PG 10 PG 10 PG	66.61 2017 2017	<b>4</b> 4 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	888 888	6 50 6 50 6 50 6 50 6 50 6 50	22 88 88	6 6 6 6 6 6 6 6 6	88 88 88	34 56 36 36 36 36 36 36 36 36 36 36 36 36 36	57. 775 53. 376	908 12 12 12 13 13 14	OFFET	
941 559 662 559 662 559 152 559 153 55	200	945 129 914 129 914 129 917	1	3 3 3 3 2 2 2 2 2 2 2 2 2	819 25	452 547 452 547		151 98 151 98 161 98 16	64.063 64.063	453, 568 453, 733	100 to 10	453 803 453 718	453,615	151 202 151 202 151 203 151 2	152.83	151 946 151 946 158 158 158	154 O41 154 O41	22	<b>1</b>	\$ <del>\$ \$</del> \$	453, 848 453, 868	454 002 500 454 002	154, 042 103	454 001 816 T24	453.519 453.610	00 to 100 in 100	MEDIELICAL BOSE BOSHICAL	
453.4 453.4 453.4 453.4 453.4		461 461 5 461 4	4010		10	451.778 451.686			200		155 A	\$500 pp		199		18 19 19 19 19 19 19 19 19 19 19 19 19 19		P P	ŽŽ.	### ### ### ### ### ### ### ### ### ##	\$ 15 E	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	454	\$ \$ \$ \$ \$ \$ \$ \$ \$	\$52.50 82.20		THEORETICAL  GRACE  BLEANTON  ADJUSTED FOR  DEAD LOAD  DEFINECTION	
33 65 65 65 77 67 A	1800 E 41400 5	÷8181≌{	18 23 <b>3</b> 8 1	8888	8 8 9	E 18 18 18	8 23 83 8	¥ ± 8 ≥	1=4:	388	8 BS 38	¥88	3 25 25 3	218181	8 3	B ≅ 3	¥ 87 8	. 88 88 8	30.0	8K 8K K	183	2.20	i iji k	82	# <b>#</b> #	BK 43	9 8 9 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	
****	******	98 98 98 98 98	R 88 88 88 1	B B B B	RER S	2 <b>2</b> 2 2	2 <b>2</b> 2	2 2 2	<b>22</b> 3	222	222	<b>22</b>	2 2 2 1	. 2 2 1	<b>: 9:</b> 1	222	383	8 5 5 5	888	385	881	888	188	සස	288	2 2	Ē	
>&&≴⊈&&&≤	: = & & & & & & & & & & & & & & & & & &	១ខ≌ខរ	<b>5 £</b> 08 ≅1	នន្ទន	28 3	3 & & ≤	5228	: > <u>□</u> [	3888	<u> </u>	385	328	8 E E	នឧទ្ធន	2 <b>8</b> 3	2&≥	<b>8</b> ≱\$	: X 2 !	: <b>5</b> . 12.	និមិន	1883	ខន្ទ	មិន	8 <u>2 1</u>	នឌម្	28	LOCATION	
49-21 49-20 49-16 49-17 49-16	8 2 4 2 2 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4	\$ \$ \$ \$ \$ \$ 31. 121 \$ \$ \$ \$	****	* * * * * *		45-07, 476 45-07, 476 46-07, 476 46-07, 476										48-97, 497 48-98, 080 48-98, 602											N STATION	
£883853	8 2 2 2 5 8 8 8	# 25 26 26 16 16 16 16 16 16 16 16 16 16 16 16 16	2 2 8 R	8 2 8 <i>i</i>																								
90,000 90,000 90,000 90,000 90,000 90,000	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	888 888 88 88 88 88 88 88 88 88 88 88 8	56, 034 47, 319	73.463	8 5 7 8 6 7 7 8 6 7 7 8 6 7 7 8	2 4 4 5 2 6 6 6 2 6 6 6 6	1888 1888 1886	888 888	7 6 8 1 3 8 8 8	8 6 8 8 8 8	# PX K	88 88 88 88 88 88 88 88 88 88 88 88 88	# # # # # # 12 B	22 920 217 217	55 55 42 55 42 65 56 45 56 56 56 56 56 56 56 56 56 56 56 56 56 56 5	₹4 \$4 \$4 \$4	888	888	#### 888	88	888 888	888	000 56.58 74.78	86.22 8.42 8.43 8.43		OFF.	,
25 25 25 25 25 25 25 25 25 25 25 25 25 2	33333333333333333333333333333333333333	946 234 202 234 815 234	3	451.93 67.93 67.93	5.5	13333 1884	452 53 767 798	152 55 152 55 153 55 15	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	450 SS 833 SS 835 SS 835 SS 835 SS 835 SS 835 SS 835 SS 835 SS 835 SS 83	\$5,73 65,73 66,73 68	452 903 452, 816		100 HS 100 HS 10	1000 1000 1000 1000 1000 1000 1000 100	452 S2 826 S2 82	453 107 453 042	451 309	453,463	451.268 451.268 451.268	\$50 Que	453 102 633 033	453, 174	453,032	\$ 52 53 52 52 53 58 52 53 58 53 53 58 56 58 56 56 56 56 56 56 56 56 56 56 56 56 56 5	005 759 016 759	DECRETION BANCE BANCE BENEFICAL	007.80
13333333333333333333333333333333333333	9999999 1868888	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	នុំស្នាំ សុំសុំស្នាំ ឧឧឧឧ	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	15 . 74 15 . 74	1333 1258		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		888 882 882		\$ 55 12 13 12 13 12 13	10 10 10 10 10 10 10 10 10 10 10 10 10 1	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	45 20 20 20 20 20 20 20 20 20 20 20 20 20	\$51.08 \$60.08 \$60.08 \$60.08	453.20	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	455 63	453.43	454 20 454 20 454	453, 24		453 15 453 24	8 8 8 8 8		DEPLECTION DEAD LONG DEAD LONG DEAD FOR DEATION ACLISTED FOR DEACTION	9
<u> </u>	E ¥ 28 K3 UK 3K 46 75	86 85 K3 to	BEES	<b>a</b> = <b>b</b>	- 64	கைப்ப	as un un i	ച വ ത ര	3 (3) (3)	In 63 Q	o woo	NO	<b>⊿</b> 6∧ ≔	<u> </u>	0 7	7.00	7	- 10 01	V 0110	or or v	, v m	·	J W W		. D G1 W		<u> </u>	Š
!	3323333	3 <b>3</b> 3 3 3 3	3 2 2 3	888	<b>888</b>	<b>38 38 38</b>	<b>3</b> 3 3	88	<b>288</b>	87	87 87	3 53 53	89 <b>8</b> 9 89	89 <b>8</b> 9	87 87	8 8 8	R 98 88	97 97 97 97 98 98	98 98 98	18°88	9R 9R 9F	<b>8</b> 8 8	<b>9</b> 8,98,8	R 98 9F	1 9R 9R 98	R 9R 9R	r X	1
	*ಹಹ⊈ಹಹತ *	1 <u>9</u> 882	<u> </u>	នគួន	ខន្លិន	283	율동용	≥ ₹5	გლგ	≱≵	88	8 5 3	> <u>o</u> 6	8 B 8	<b>25 83</b> 53	2 ≥}	គ្នី៩៩	858	<b>&gt;</b> □ [		<b>윤조</b> 8	gΩ	មិចរ	នដ៏ខ	858 8	និស្តិន	LOCATION	
	14 44 44 44 44 44 44 44 44 44 44 44 44 4																											
	92 75 75 75 75 75 75 75 75 75 75 75 75 75	# # # # 8 8 8 8 8	5 6 8 8 8 8 8 8	2 7 7 F 2 8 8 8 3 8 8 8	8 8 8 8 8 8 8 8 8	## 932 25 729	61.263 61.263	94 605 807 908	400 400 400 400 400 400 400 400 400 400	280 280 280 280	72.724	\$6.57.\$6 03.38 03.83	\$ # 6 5 8 8 6 8	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	5 6 6 6 8 8 8 8 8	91.416	87,72 26,087 74,088	55, 717 58, 322	40.000	## 888 888	77 888	888 888	F 500	888 888	39.55 39.55 39.55	8 9 9 8 8 8 8 8 8		
	451, 286 451, 286 451, 286 451, 286 451, 117		451, 571 451, 571 451, 798	65.78 86.78 198.88	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	5 5 5 5 8 8 8 8 8	451, 498 451, 419	\$51, 356 51, 254	451, 480 451, 467	5: 88 84	451.780	55. 956 65. 956 65. 956	452 316 316 2316	16 C C C C C C C C C C C C C C C C C C C	451.768	451, 874	452 076 451, 975	\$ 52 53 67 57 58	102.086	100 OF	452 233 652 233	100 CE   CE   CE   CE   CE   CE   CE   CE	452.202 452.202	450 347 303	\$51.95 22.125 23.125	451, 576 451, 671	MEGRETION	
	451.28 451.28 451.28 451.13 452.28	451.9 451.9	65.65 20.00	10 10 10 10 10 10 10 10 10 10 10 10 10 1	500	្តិក្នុង ទីនិង	451.4	\$ <u>\$</u>	451, 561 451, 508 451, 465	\$5.5 \$5.7	15.55 18.98	<b>15</b> 15 15 15 15 15 15 15 15 15 15 15 15 15	\$ 10 th		55.25	<b>1</b>	<b>1</b> 0 10 10 10 10 10 10 10 10 10 10 10 10 10	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		335 385 386	452 45	<b>3</b>	\$ \$\$ 25 23	188 188	451, 990 452 156	28 K	n. 8	
	8 1 2 8 5 8 2 6	28282	882	8882	8 22 =	: 38 AR AZ	<b>88</b> ∓ 88	. z.	2486 ≃	- ਲਬ	(38	<i>,</i> 84	<b>ω κ</b> δ	000	<b>3 3 3 3</b>	<b>д</b> 85	≕ <b>55</b> N	o o a n	0.010	***		700	wp to	On 17		<b>-</b> (n	<u> </u>	
																												П

LEVELS PLOTTED DATE: AUG. 10, 1989

56 63

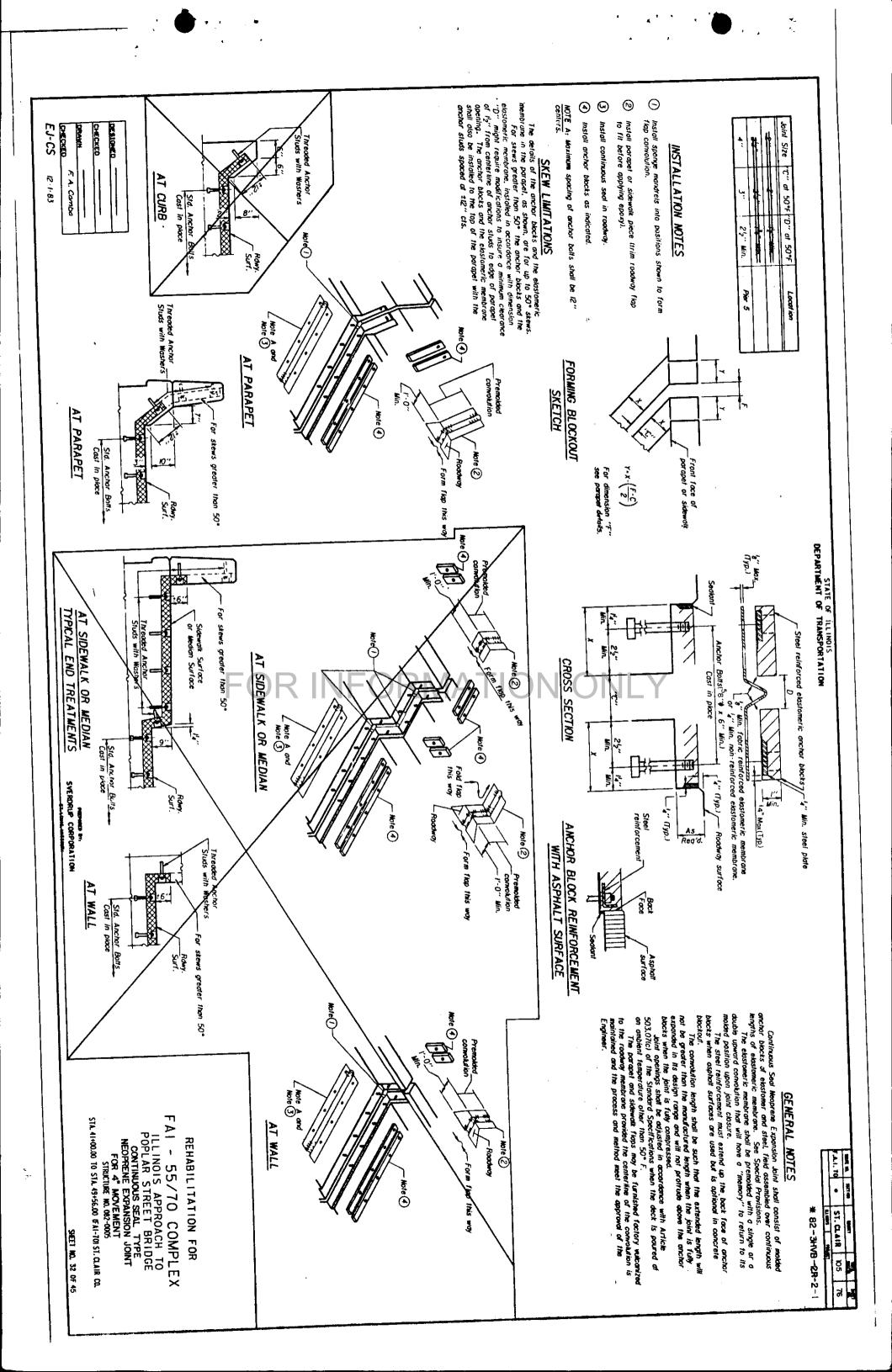
PREPARED IN SVERDRUP CORPORATION ST. LEWIS. HISSAULI

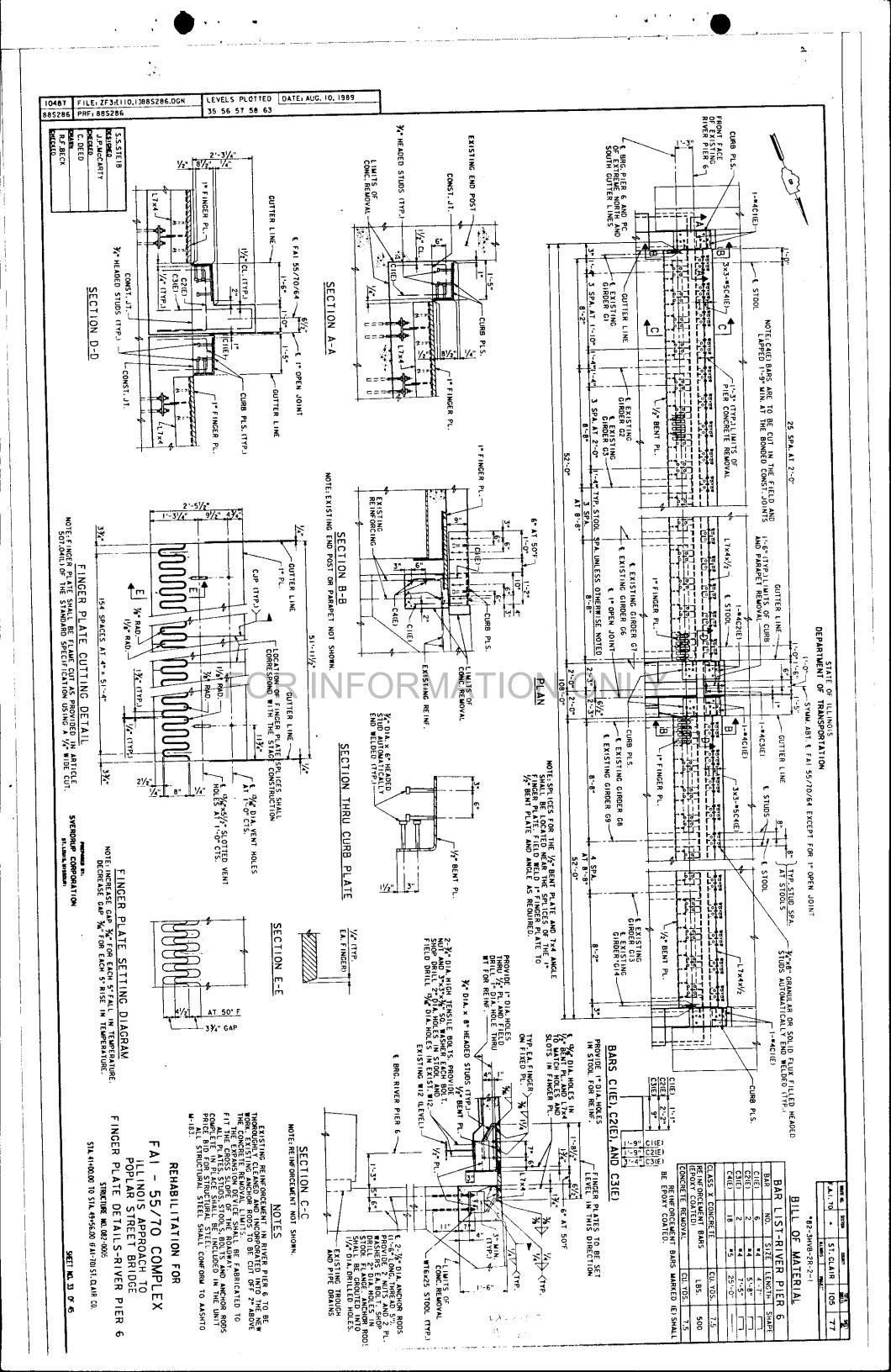
885312 PRF: 885312

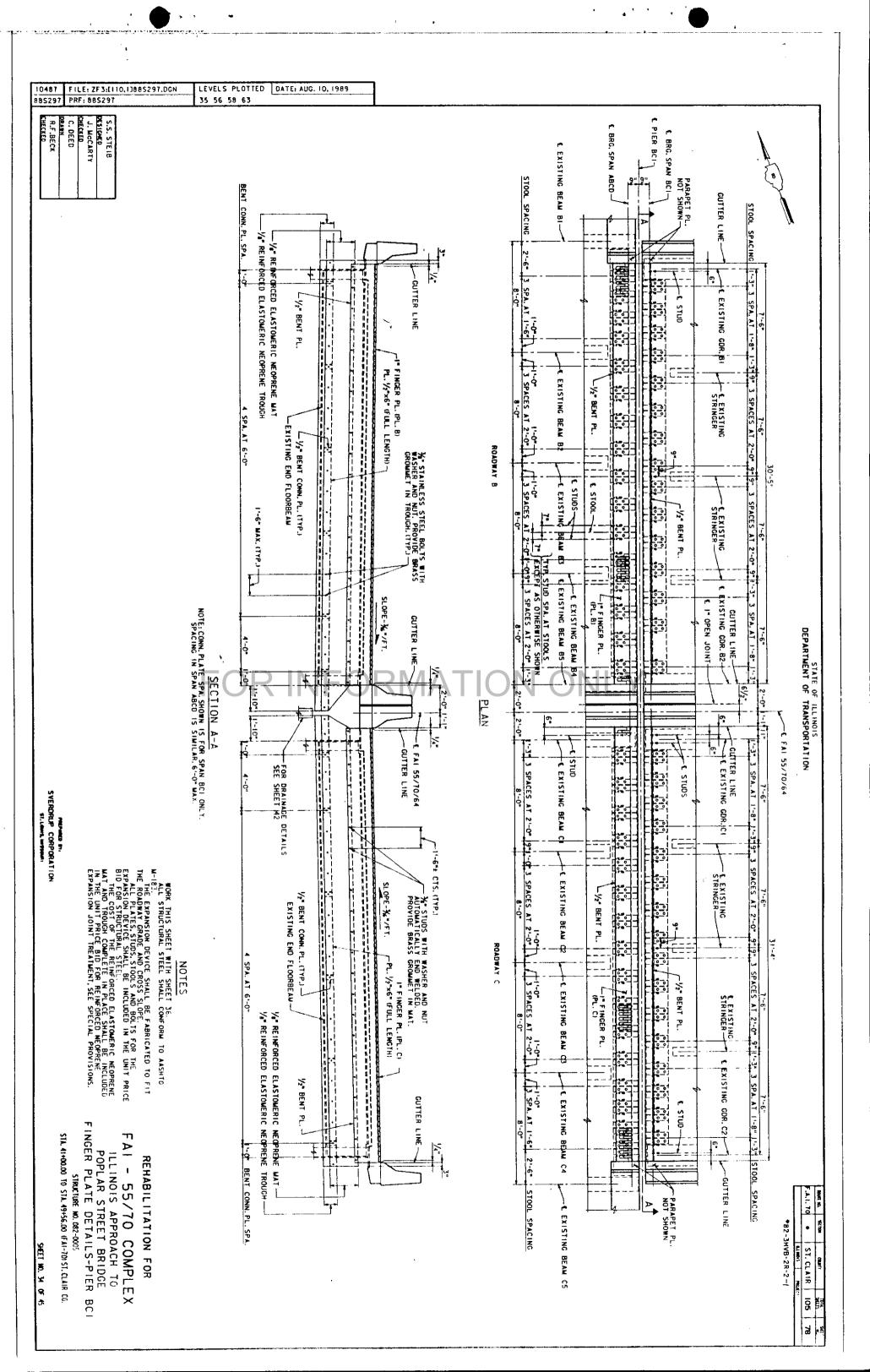
R.F. BECK
DESIGNED
R.D. WINKELMANN
CHECKED
M.J.JALINSKY
DRAMN
S.S. STEIB

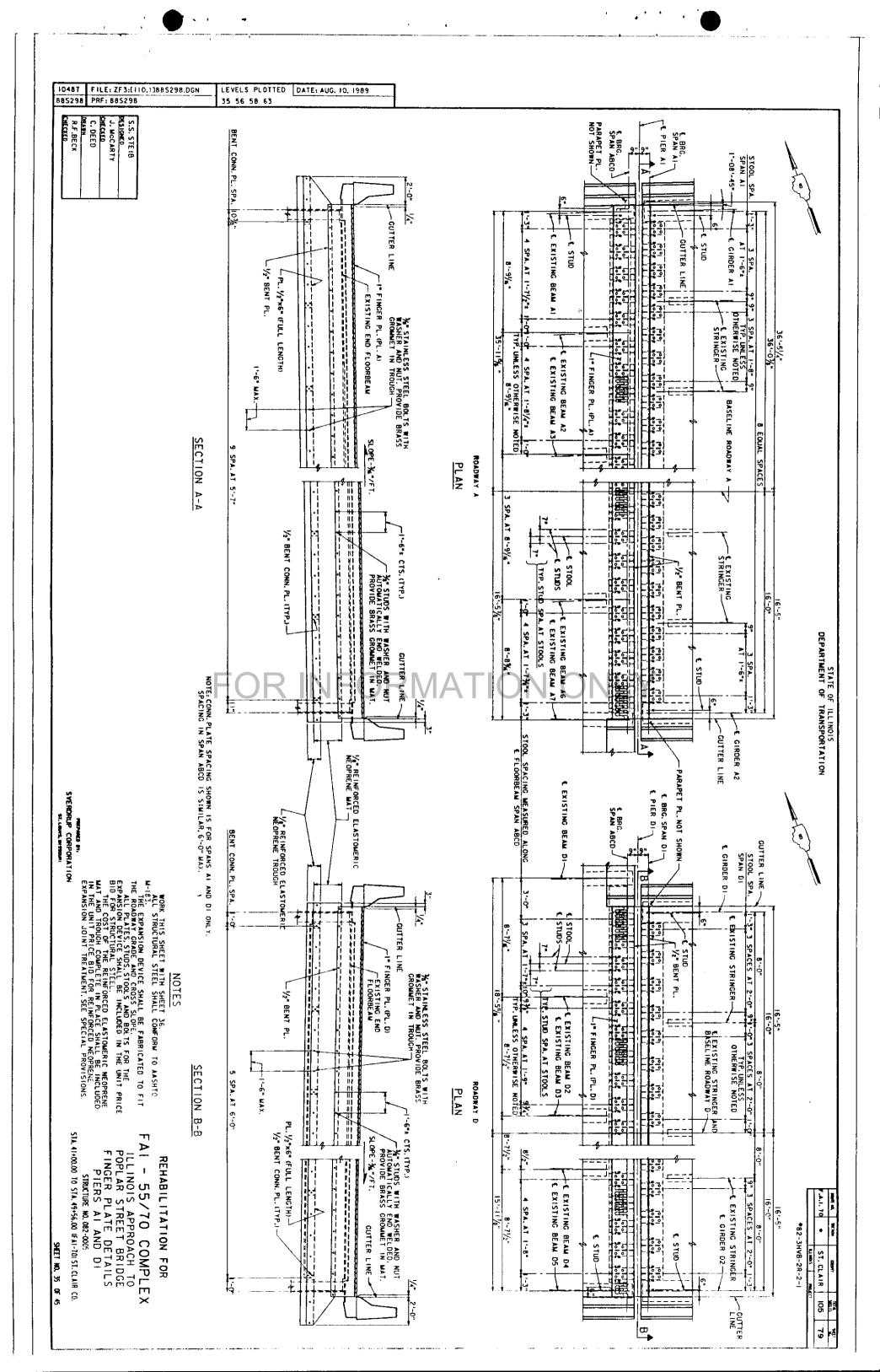
FAI - 55/70 COMPLEX ILLINOIS APPROACH TO POPLAR STREET BRIDGE STA. 41+00.00 TO STA. 49+56.00 (FA1-70) ST. CLAIR CO. TOP OF SLAB . ELEVATIONS STRUCTURE NO. 082-0005 SHEET NO. 31 OF 45

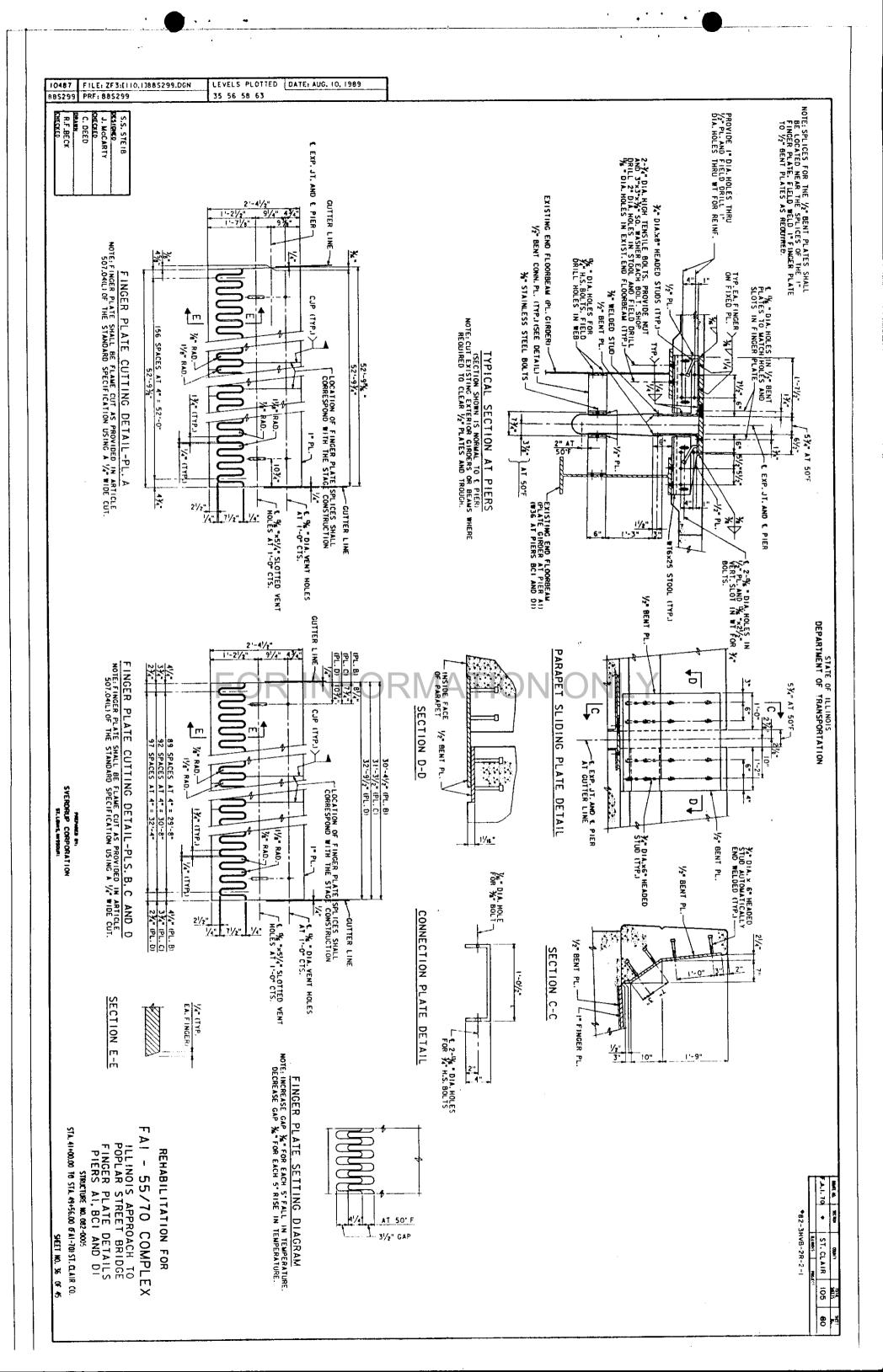
REHABILITATION FOR

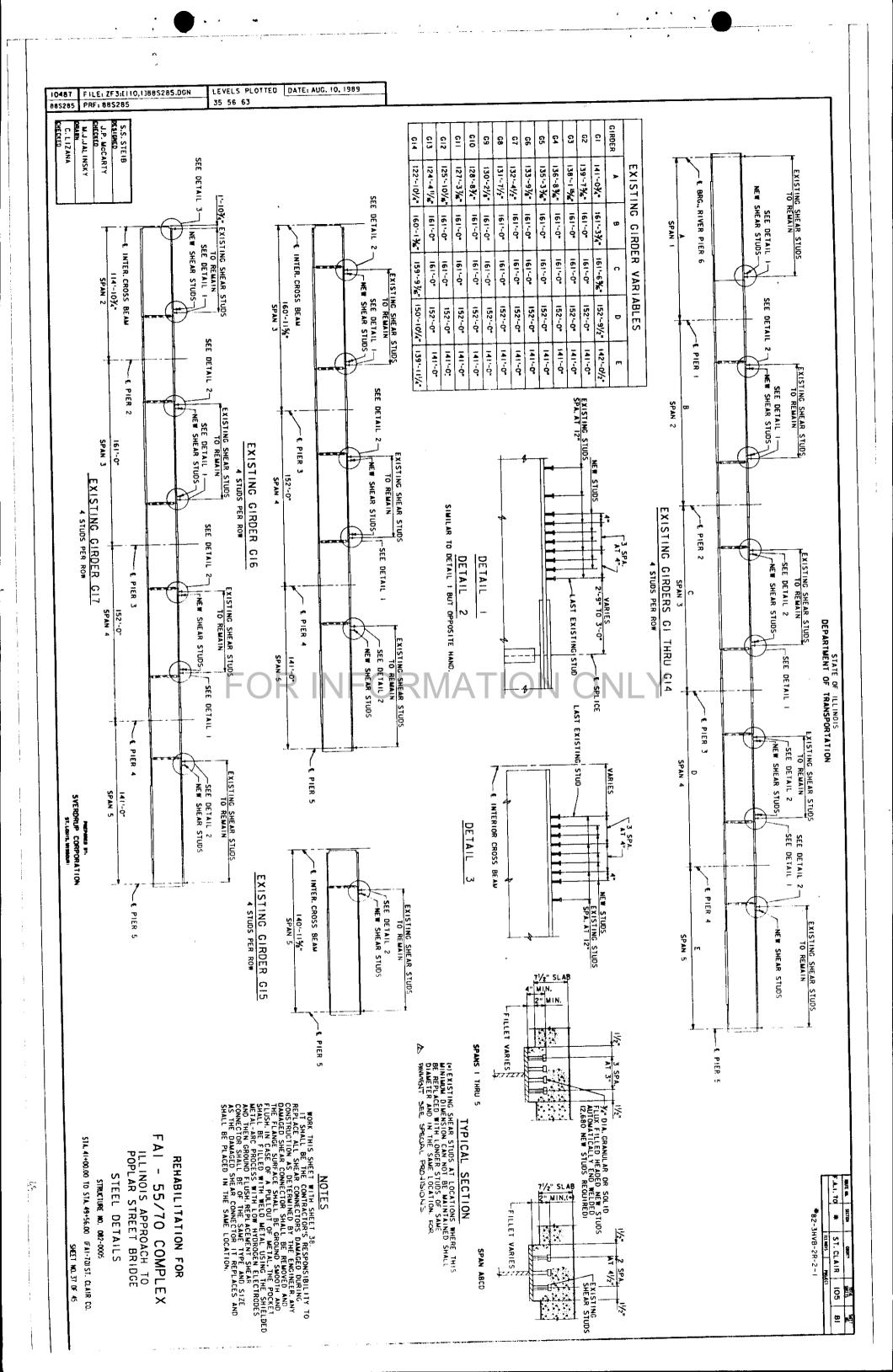


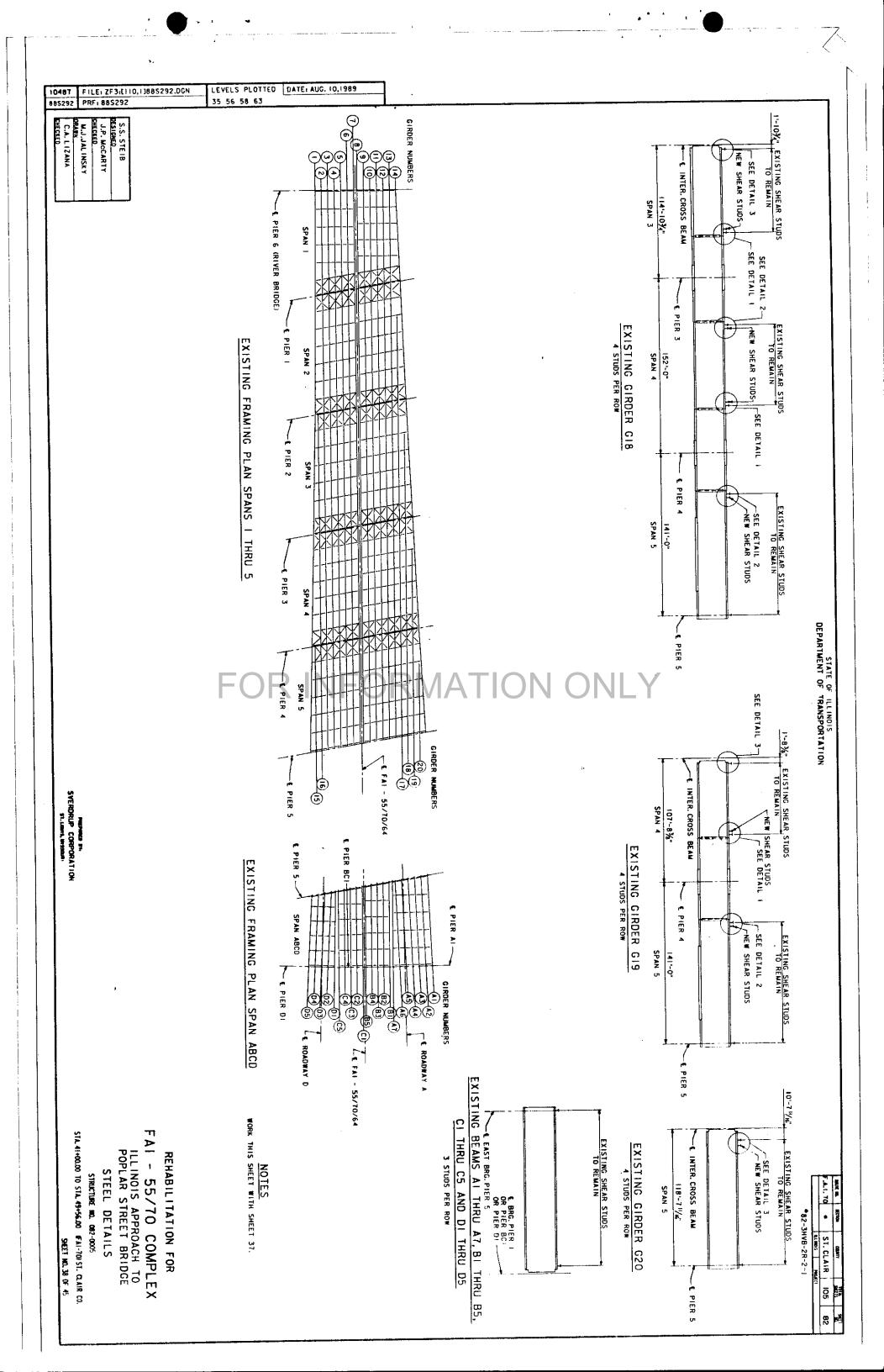


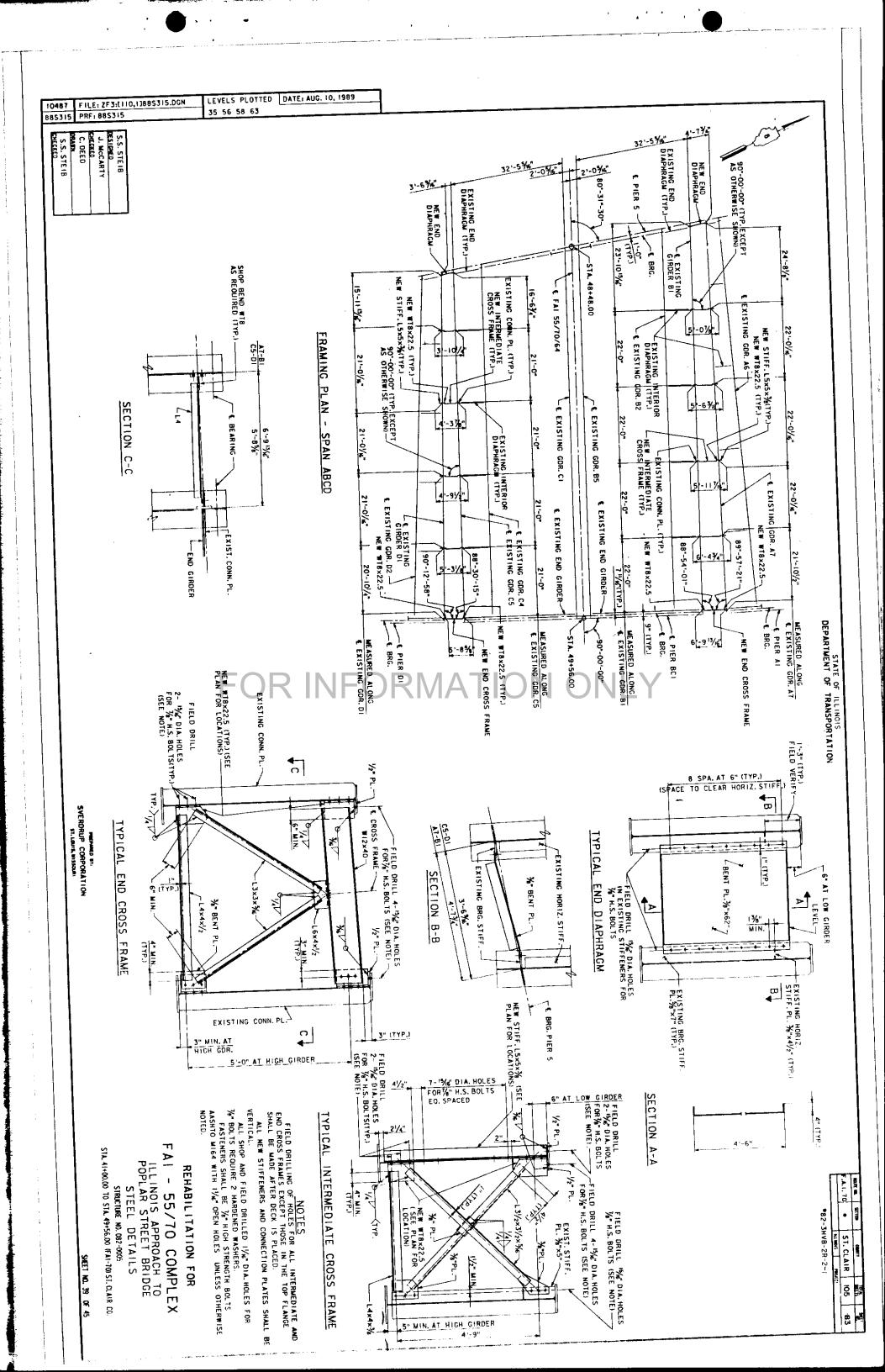












STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MOMENT TABLE

F.A.1. 70 + | ST. CLAIR | 105 | 84

\*82-3HVB-2R-2-1

END GIRDER LI-A I END GIRDER LI-D

0.5 PT.

(10.5)

2,902 7,119

40,380 1,297 5,767 1,698

2.45| 636 1,659 345

856 252 798

2.085

ij

M (total) fs (non-comp.) fs (comp. (ft.-k|ps)
(ft.-k|ps)
(ft.-k|ps)
(ksi) (kips/ft.) (ft.-kips) (ft.-klps) k!ps/ft. (in 3) (1n 4) (ks!) O.4 SPAN I 1,763 2,414 1,046 1,395 9.5 9.5 9.5 9.5 1,487 2,287 PIER I 92,898 1.046 2,628 12.8 12.8 .338 678 1,484 270 2,432 2,469 114.653 1,519 2,044 1,046 855 6.8 .338 425 1,483 260 2,168 SPAN 2 TYPICAL INTERIOR GIRDER MOMENT PIER 2 1.046 2,439 11.1 662 1.560 273 2.495 0.5 SPAN 3 TABLE SPANS I THRU 5 PIER 3 0.5 SPAN 4 92,898 100,042 PIER 4 | 0.6 SPAN 5 92.898 141,304 72" GIRDER 60" GIRDER 0.5 SPAN ABCD SPAN ABCD 145,686 0.5 SPAN ABCD SPAN ABCD

N F

M INP

(k1 ps)

		20.0	20.4	19.6	23.2	19.7	22.4	-
		30,6	10.5	10.6	11.2	13.4	11.6	2.4
C VEN.		1,500	2,299	2,357	2,301	1,926	2,379	277
OR S.D.L.) REQUIRED TO OBTAIN THE MAX	(OR S.D.L.) REOUTR	203	304	285	259	241	266	71
EN IS THE FOLLOW F	THE THE CITY	000	1,400	1,514	1.410	1,333	1.496	550
(ks:)	fs (total)	230		, ,	97.0	200	617	56
(TTKI DS)	M (total)	436	512	257	673	150		; ;
		585.	.290	.338	855.	.338	.338	38
(ftk\Ds)	K KD		2	0.5	0.21	6.3	8.01	.7
(+tklps)	Z.	0.0	5		:	010	777.7	25
(TT, -Kips	₹ SE	1,443	1,810	1 504	2 479	670	3	
	3	1.4	1.025	1.046	1,046	1.046	1.046	<u> </u>
(+t,-k(ps)	E .		1,000	6,017		1,728		202
(kips/ft.)	(S Q (SEE NOTE)	2.189	2.680	3 6 7 6			500.7	3
17. Day 1	10 mm 10 mm	1,736	2,156	2.005	2 469	1 373	2 469	
15-20/++							_	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

# NOTES IS AND SS, ARE THE MOMENT OF INERTIA AND SECTION MODULUS OF THE STEEL SECTION USED IN COMPUTING 55 (TOTAL). IC AND SC ARE THE MOMENT OF INERTIA AND SECTION MODULUS OF THE COMPOSITE SECTION USED IN COMPUTING 45 (TOTAL). M Q - MOMENT DUE TO DEAD LOADS ON NON-COMPOSITE SECTION. M SQ - MOMENT DUE TO DEAD LOADS ON COMPOSITE SECTION. M SQ - MOMENT DUE TO LIVE LOAD ON MON-COMPOSITE OR COMPOSITE SECTION. M L - MOMENT DUE TO LIVE LOAD ON MON-COMPOSITE OR COMPOSITE SECTION. TWO - LIVE LOAD IMPACT. THO - LIVE LOAD IMPACT. YOR IS THE MAXIMUM L + IMP SHEAR RANCE IN SPAN. SECTION PROPERTIES ARE COMPUTED BASED ON EXISTING GIRDER DETAILS.

PREPARED IN:
SYERDRUP CORPORATION
SYLEUIS, MISSOURI

REHABILITATION FOR

LEVELS PLOTTED DATE: AUG. 10, 1989

R TOTAL

PIER 1 PIER 2 PIER 3 PIER 4 PIER 5 PIER 5, ALBCI OR DI

226.6

57.1

78.1 52.8 10.8

10.2

TYPICAL INTERIOR GIRDER

REACTION TABLE

72" GIRDER SPAN ABCD 60" GIRDER SPAN ABCD END GIRDER LI-A END GIRDER LI-D

PIER 5, BCI OR DI

67.5

189.3

AT GIRDERS DI AND DE 93.8

FOR INFORI

FILE: ZF3:[110.13885320.DGN

PRF: 885320

S.S. STEIB
DESIGNED
J.P. MCCARTY

D.C. SPINK

D. WINKELMANN

FAT - 55/70 COMPLEX ILLINOIS APPROACH TO POPLAR STREET BRIDGE STRESS TABLES

STA, 41+00.00 TO STA, 49+56.00 (FAI-70) ST, CLAIR CO. STRUCTURE NO. 082-0005

SHEET NO. 40 OF 45

Krused: PMP, 5-24-90

FILE: ZF3:[110,13885320.DGN LEVELS PLOTTED DATE: AUG. 10, 1989 10487 FILE: ZF3:[1] 8BS320 PRF: 8BS320

FOR INFORM

R.D. WINKELMANN

S.S. STEIB
DESIGNED
J.P. MCCARTY
DESCREE
D.C. SPINK

																												1
R TOTAL	I N	= A		20		_			¥ Z		f s icomp.	M (total)	K INP	Z F	ds n	s Q	fs (non-comp.)	<b>E</b>	0	Š	SS	<u>-</u>	ī,					
(K)	(K)	3		2						9	5	Ξ		Ì			-com				ļ		1					
0.081	10.7	Τ.	Ţ		RIVER										ļ		5.1			Į								
364.8	20.5	30.5		231.7	PIER	IAAI																						
359.2	2.02	3		223.5	PIER 2	TYPICAL INTERIOR GIRDER			(k1ps)	(ksi)	(KST)	(ft,-klps)	(++kips)	(ftklps)	(††klps)	(kips/ft.)	(ksi)	(ftkips)	(kips/ft.)	(f n 1)	(In 3)	( n n l)	(in 4)					
346.2	, c	30	30	213.1	PIER 3	IOR CIRD	!										-							0.4				
357.9	20,7	30.4	١	226.6	PIER 4	ER	RE		68.6	20.9	11.4	2,287	281	+,487	519	.336	9.5	1.395	1.046	2,414	1,763	33,180	51,776	O.4 SPAN I				
143.3		0.7	57	75.5	PIER 5	7	REACTION		1	24.6	11.8	2,432	270	1,484	678	.338	12.8	2,628	1.046		2,469		92,898	PIER				
141.1	113	10.8	52.8	78.1	PIER 5, AI,BCI OR	72" GIRDER SPAN ABCD	TABLE		61.5	19.5	12.7	2,168	260	1,483	425	.338	6.8	855	1.046	2,044	1,519	114,653	47,634	0.5 SPAN 2		Τ,		
-	+	}			אָר ס.	-				22.5	=	2,495	273	1,560	662	.338	=	2.439	1.046		2,630		99,289	PIER 2		TYPICAL	MOMENT	
1,50%	0.861	10.2	47.9	67.9	PIER 5, BCI OR	60" GIRDER SPAN ABCD			62.7	20.1	12.4	2,217	271	1,550	456	.338		1,059	1.046	2,202	1,641	121,620	49,773	0.5 SPAN 3	SPANS I THRU	INTERIOR	TABLE	
		_	_		R D-	١			-	22.4	=1.6	2,379	266	1,496	617		10.8	2,222	1,046		2,469		92,898	PIER 3	5	GIRDER		
	315.7	21.8	104.6	189.3	AT GIRDERS	END GIRDER LI-A END GIRDER LI-O			61.1	19.7	13.4	1,926	241	1,333	352		330	610	1.046	1,728	1,272	100,042	42,877	0.5 SPAN 4		R		DEPARTMEN
V	173.6	7.11	65.1	93.8	DI AND DS	END GINDE		N		23.2		2,301	259	1.4	03Z	:	4 F	200	3 470		2,463		92,898	PIER 4				T OF TRAI
	51				83		<u>;</u>		68.8	19.6	10.6	2,357	205	1,514	200	553	85.5	و د	1.040	5.0.5	2.003	3 000	55,427	0.6 SPAN 5				DEPARTMENT OF TRANSPORTATION
									63.6	20.4	3 3	5.6.3.2	3 386	1,462	1 1 1	513	290	0.	1,000	1025	2,136	3 150	66,519	0.5 SPAN ABCD	SPAN ABCD	וב" פואטבא		
									20.1	60.0	30.6	1,336	910	1.60	956	3.5	.285	10.0	1.44.	944	3 :00	1 736	10, 203	0.5 SPAN ABCD		GIRDER BO. GIRDER		

(In.4) (In.3) (klps/ft.) (klps/ft.) (ft.-klps)

110,526 2,902 7,119 1,847 2,451 636

3691 5.767

856 252 798 179 2,085

MOMENT TABLE

FA.1. 70 + ST. CLAIR 105 84

#82-3HVB-2R-2~I

-END GIRDER LI-A | END GIRDER LI-D

0.5 PT.

0.5 PT. 40,38C 1,297

IN AND SECTION USED IN COMPUTING FS (TOPO).

IS AND SECTION USED IN COMPUTING FS (TOPO).

IG AND SC ARE THE MOMENT OF INERTIA AND SECTION MODULUS OF THE COMPOSITE SECTION USED IN COMPUTING FS (TOTO).

M P - MOMENT DUE TO DEAD LOADS ON COMPOSITE SECTION.

M SP - MOMENT DUE TO DEAD LOADS ON COMPOSITE SECTION.

M SP - MOMENT DUE TO DEAD LOADS ON COMPOSITE OR COMPOSITE SECTION.

M L - MOMENT DUE TO LIVE LOAD ON NON-COMPOSITE OR COMPOSITE SECTION.

TAP - LIVE LOAD IMPACT.

VR IS THE MAXIMUM L + IMP SHEAR RANGE IN SPAN.

SECTION PROPERTIES ARE COMPUTED BASED NO EXISTING GIRDER DETAILS.

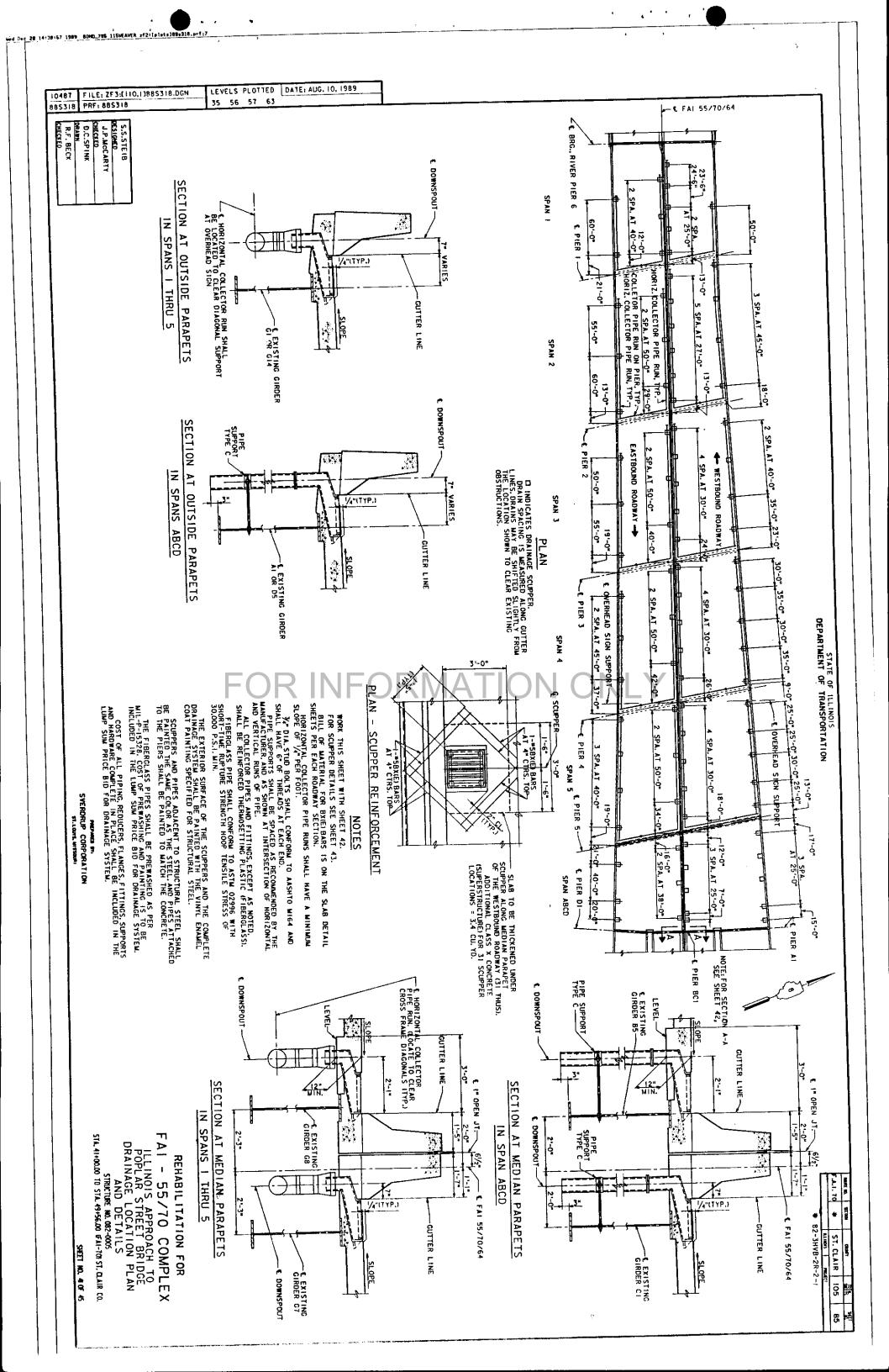
REHABILITATION FOR

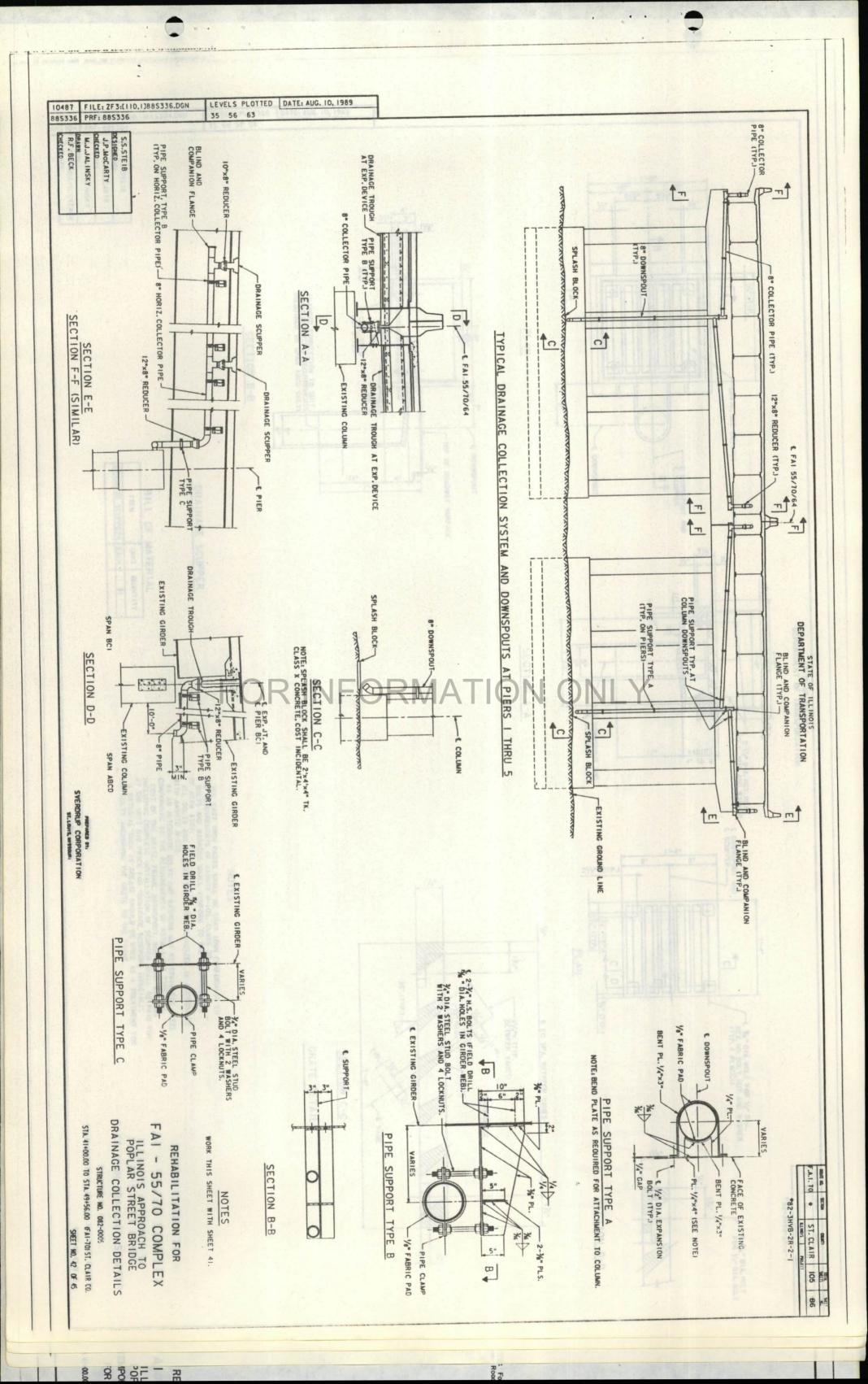
FAI - 55/70 COMPLEX ILLINOIS APPROACH TO POPLAR STREET BRIDGE STRESS TABLES

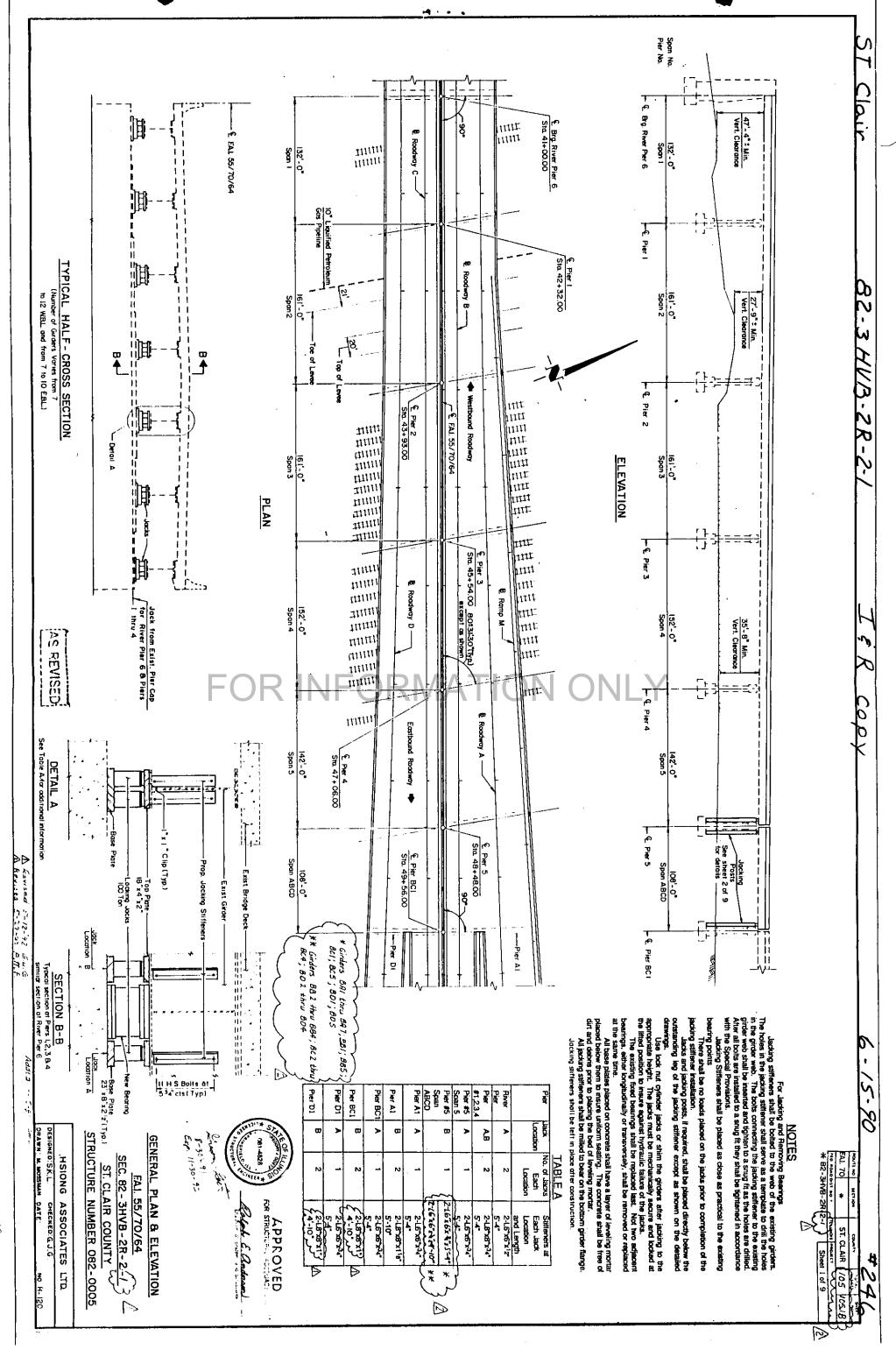
STRUCTURE NO. 082-0005 STA. 41+00.00 TO STA. 49+56.00 (FAI-70) ST. CLAIR CC.

SVERDRUP CORPORATION
ST.LBJRLWESSER:

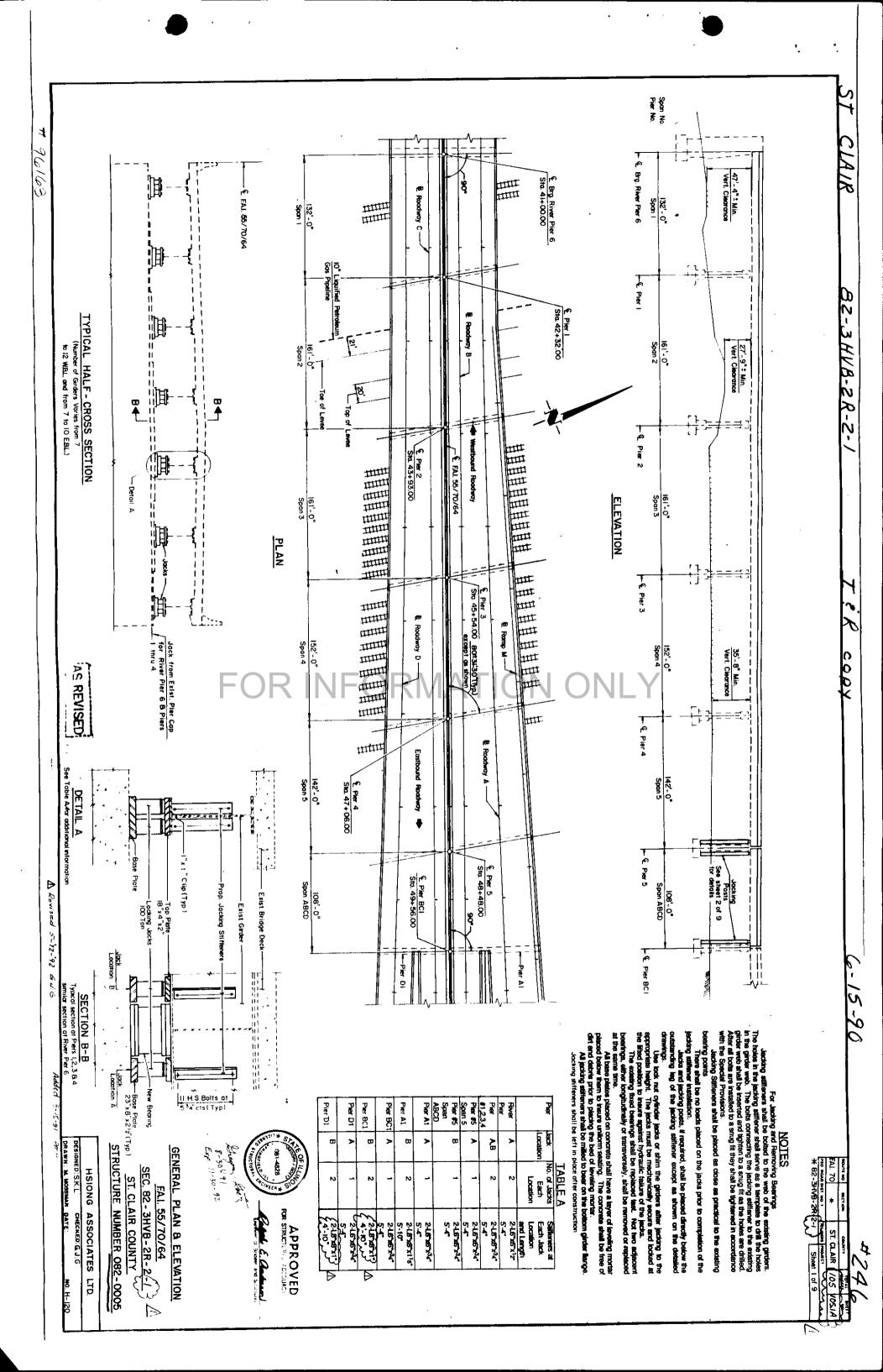
SHEET NO. 40 OF 45

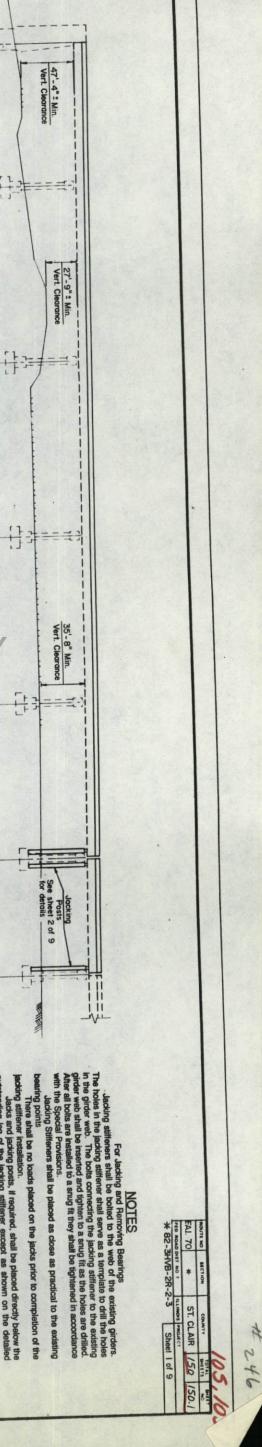


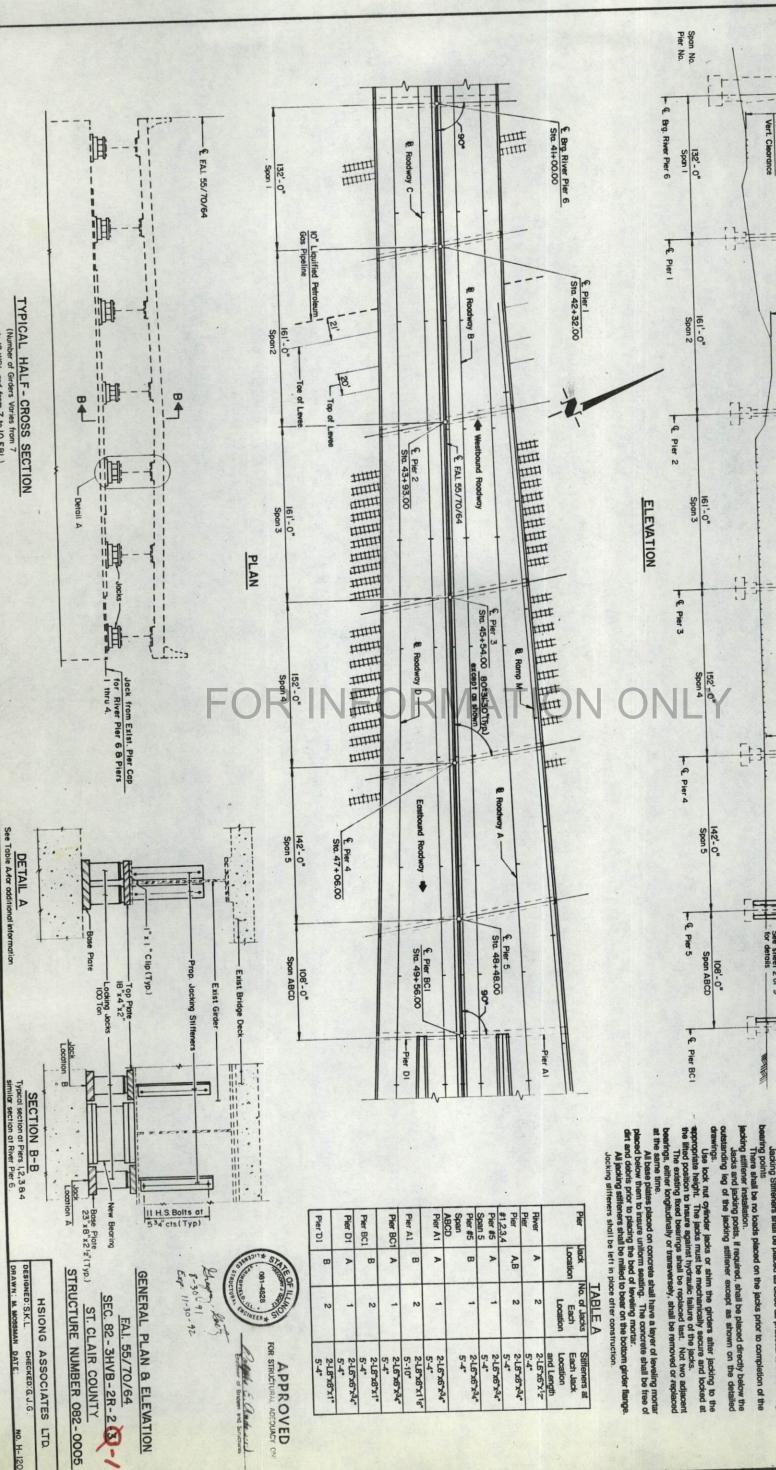




فر

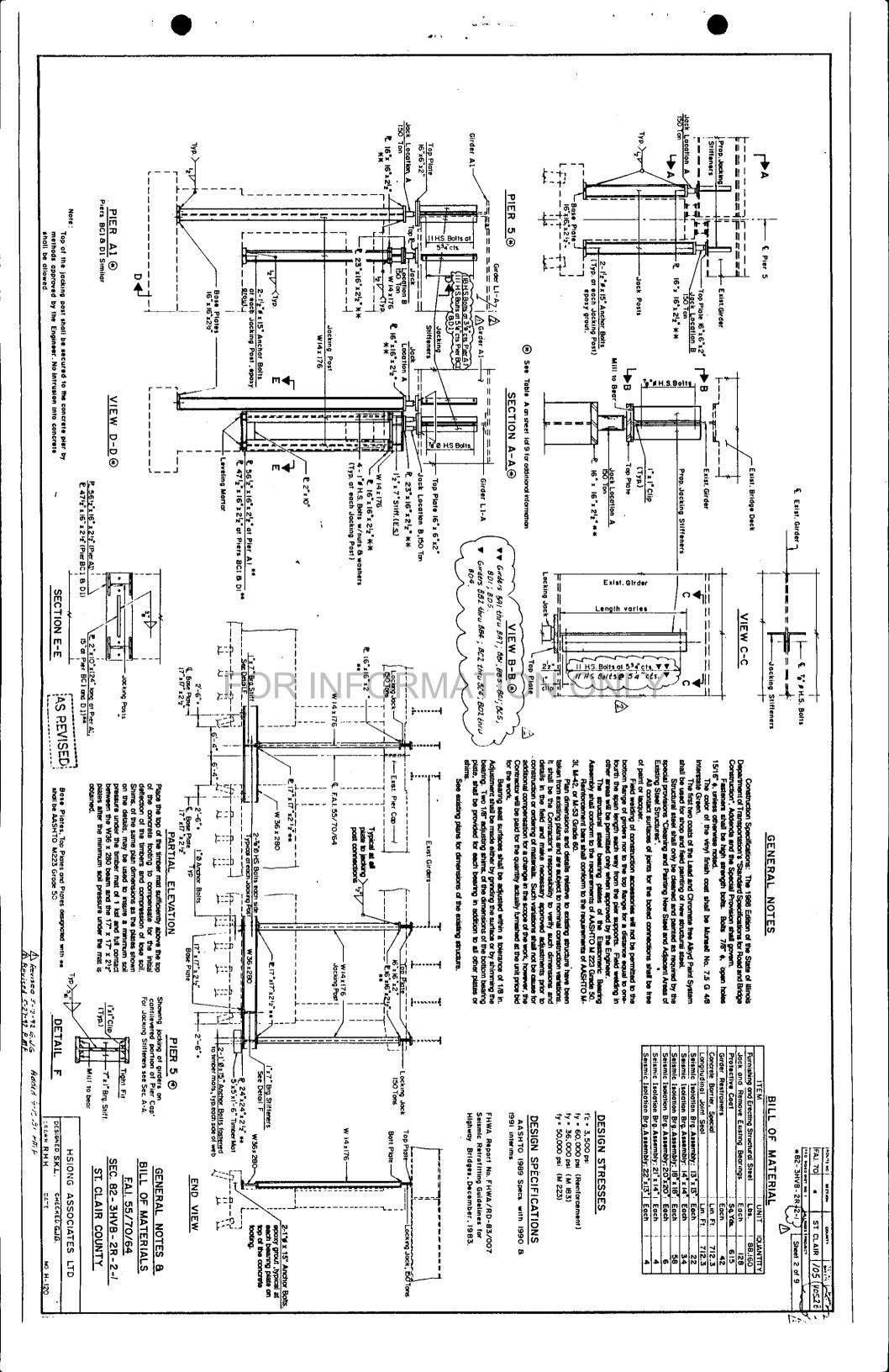


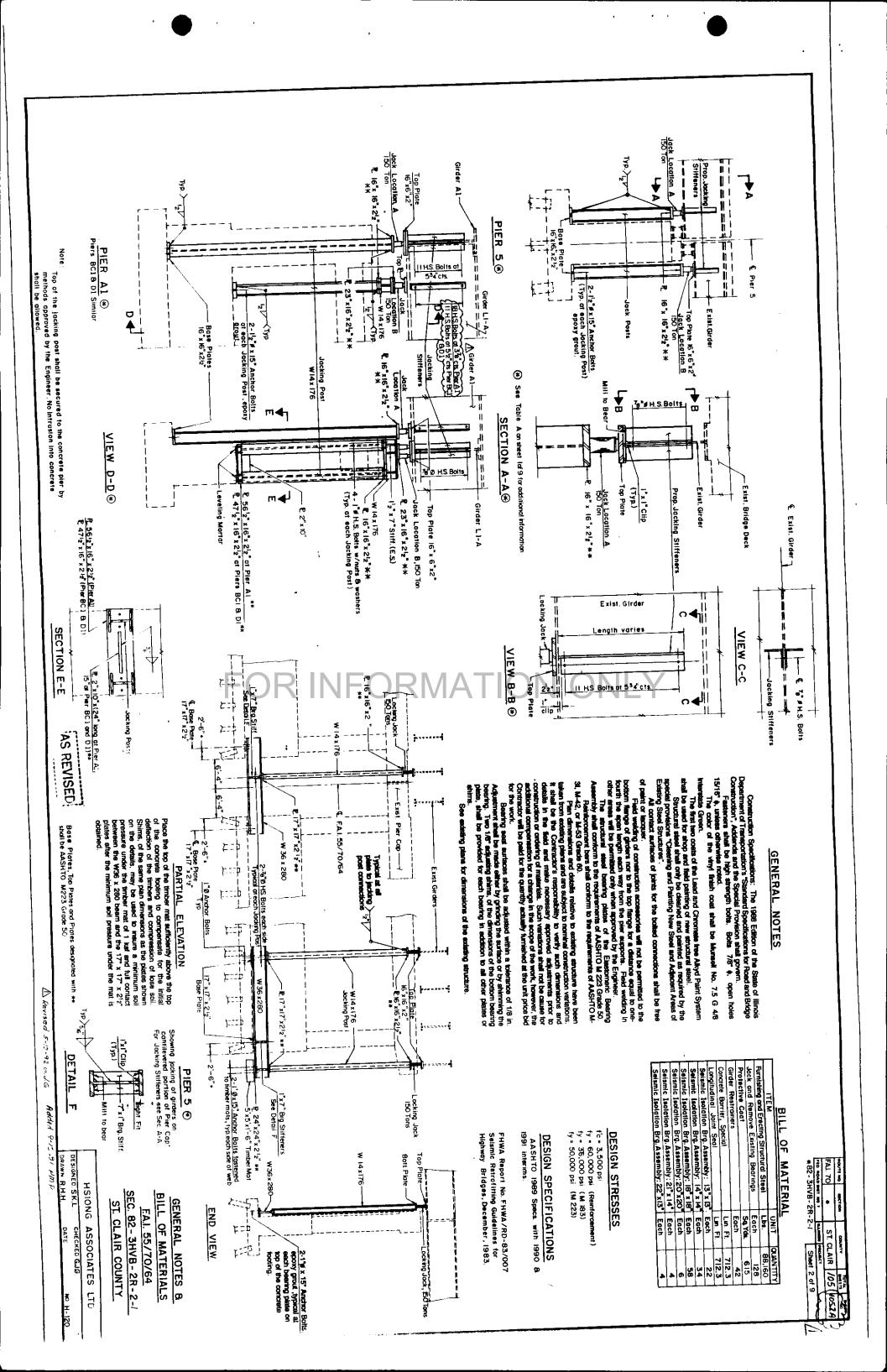


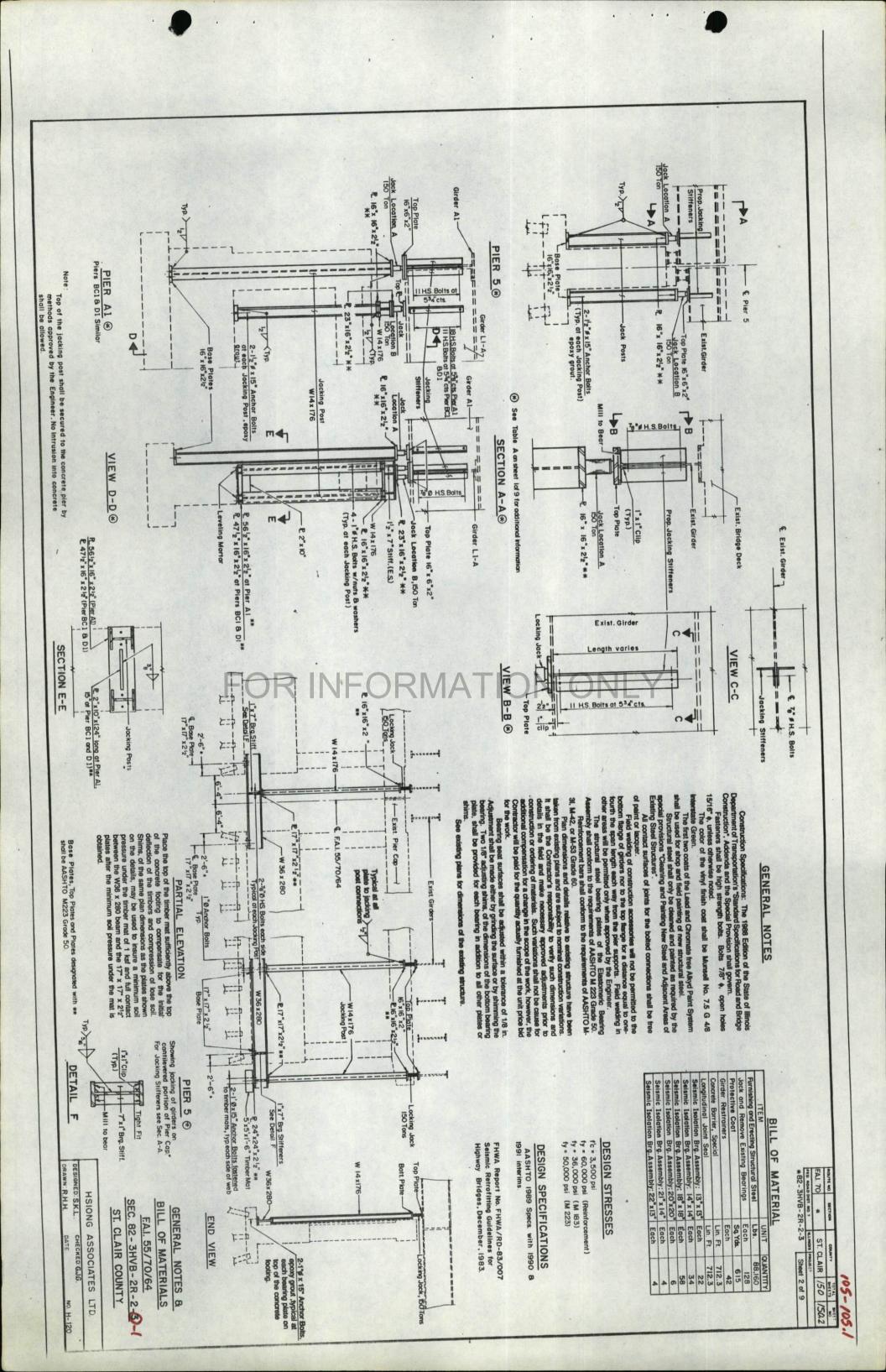


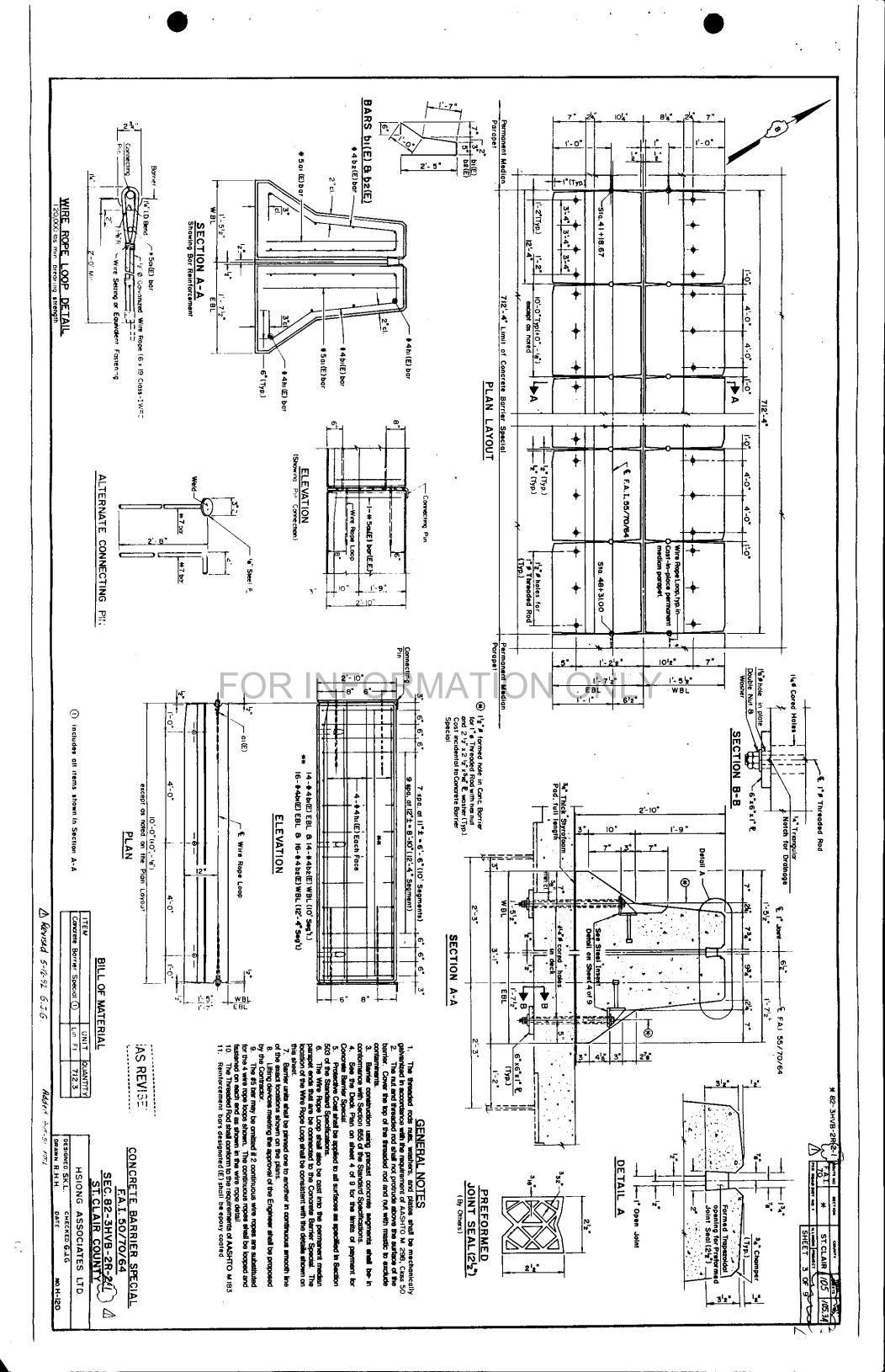
to 12 WBL and from 7 to 10 EBL)

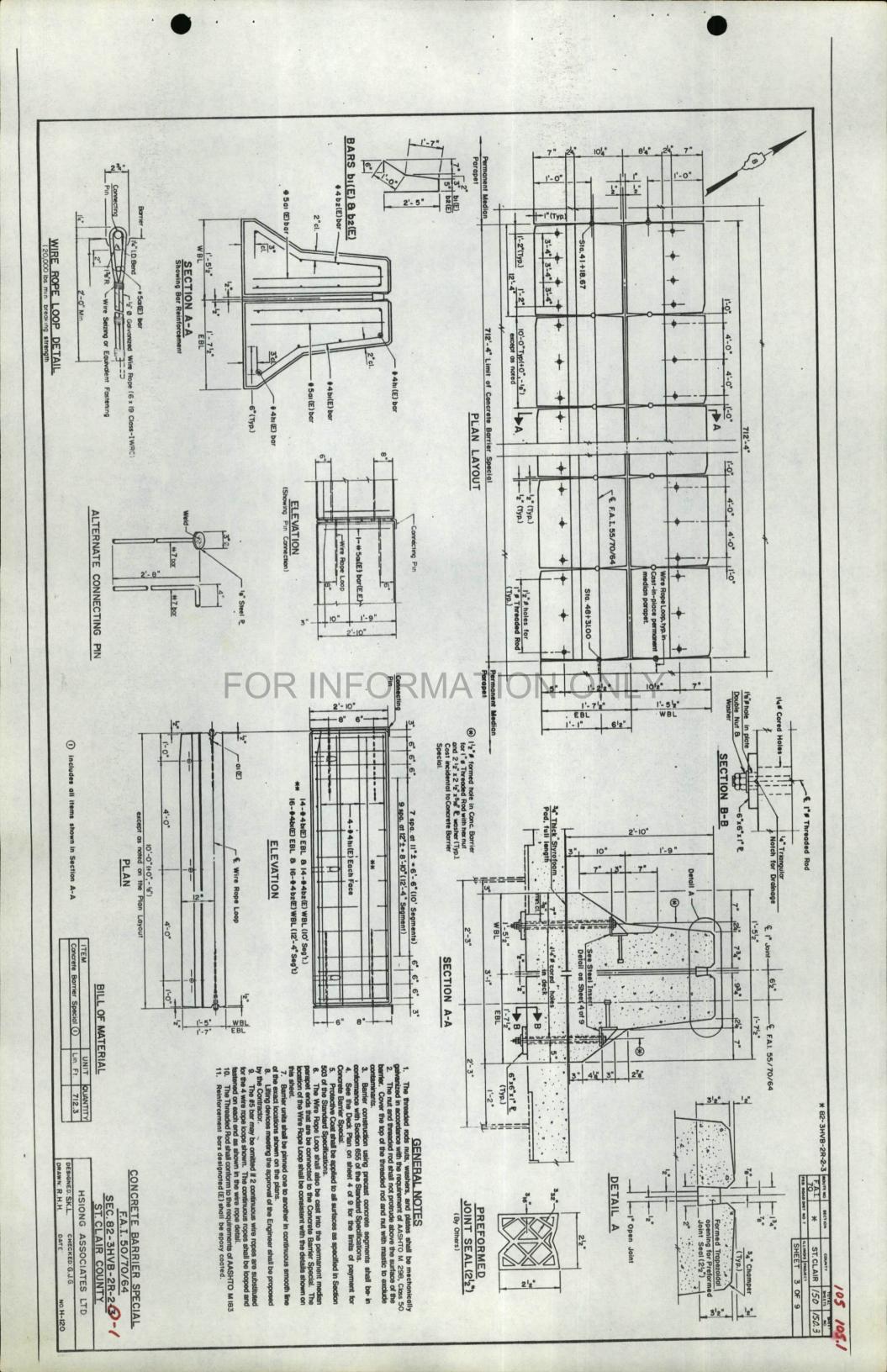
NO. H- 120

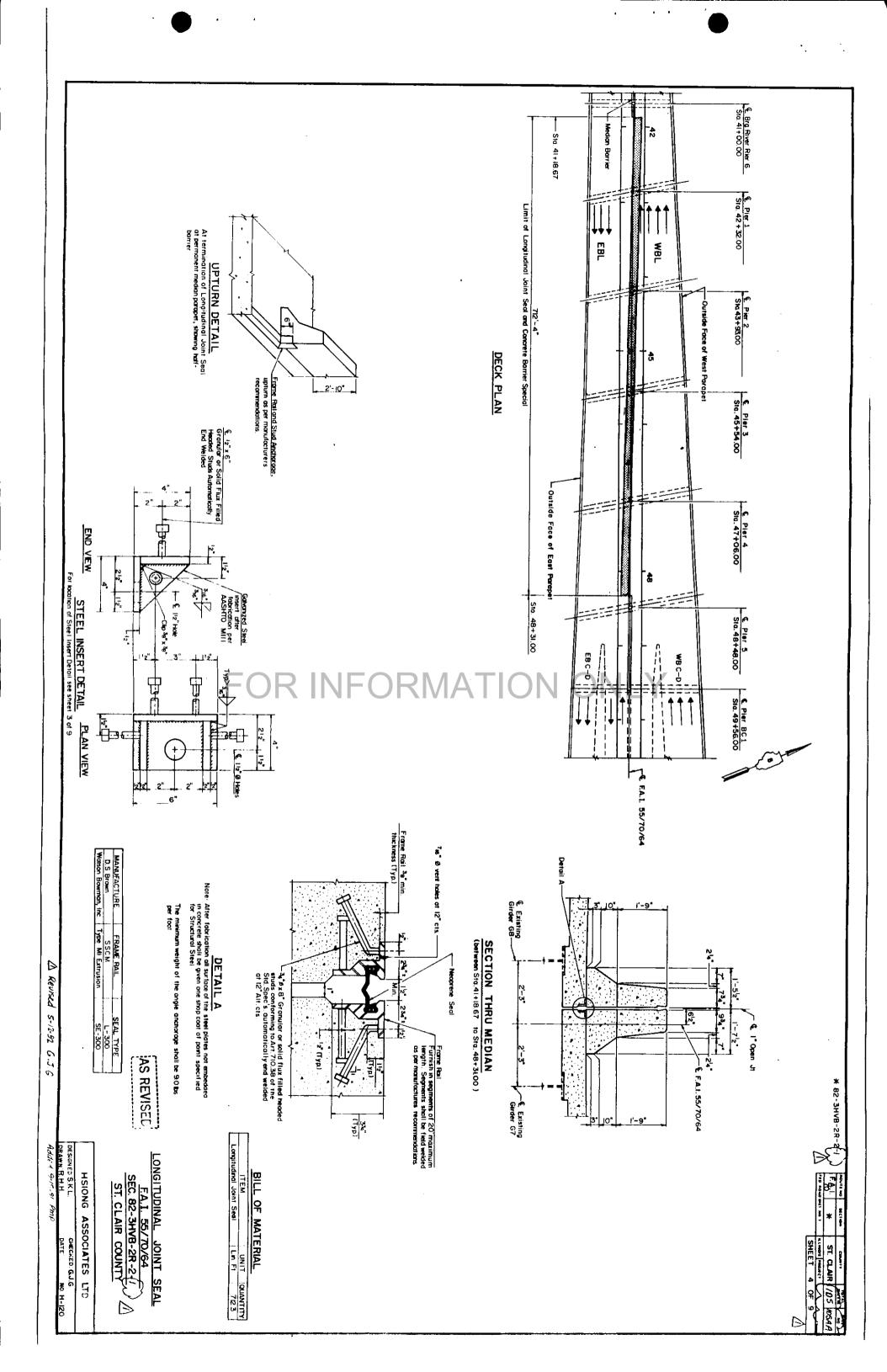


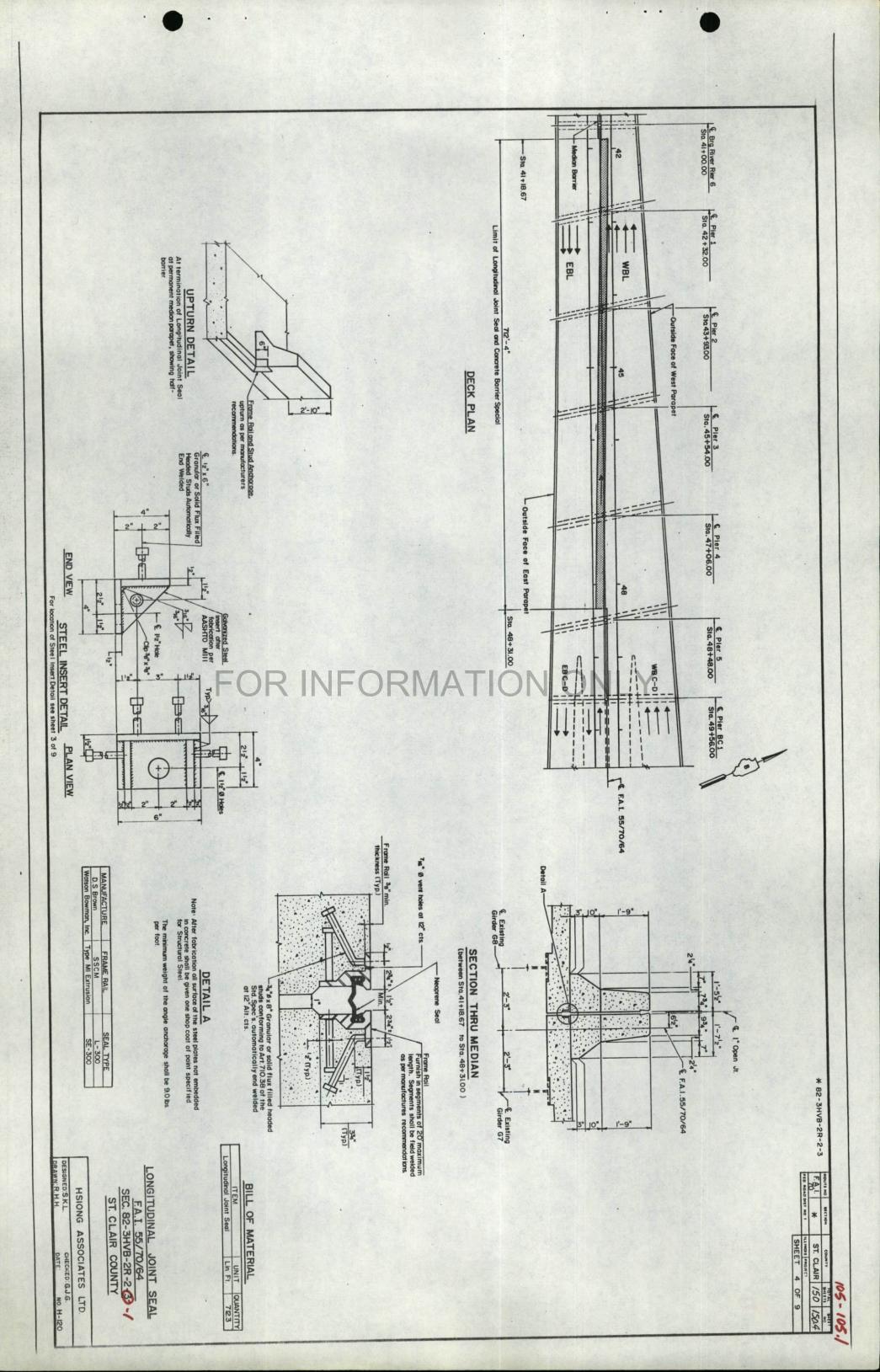


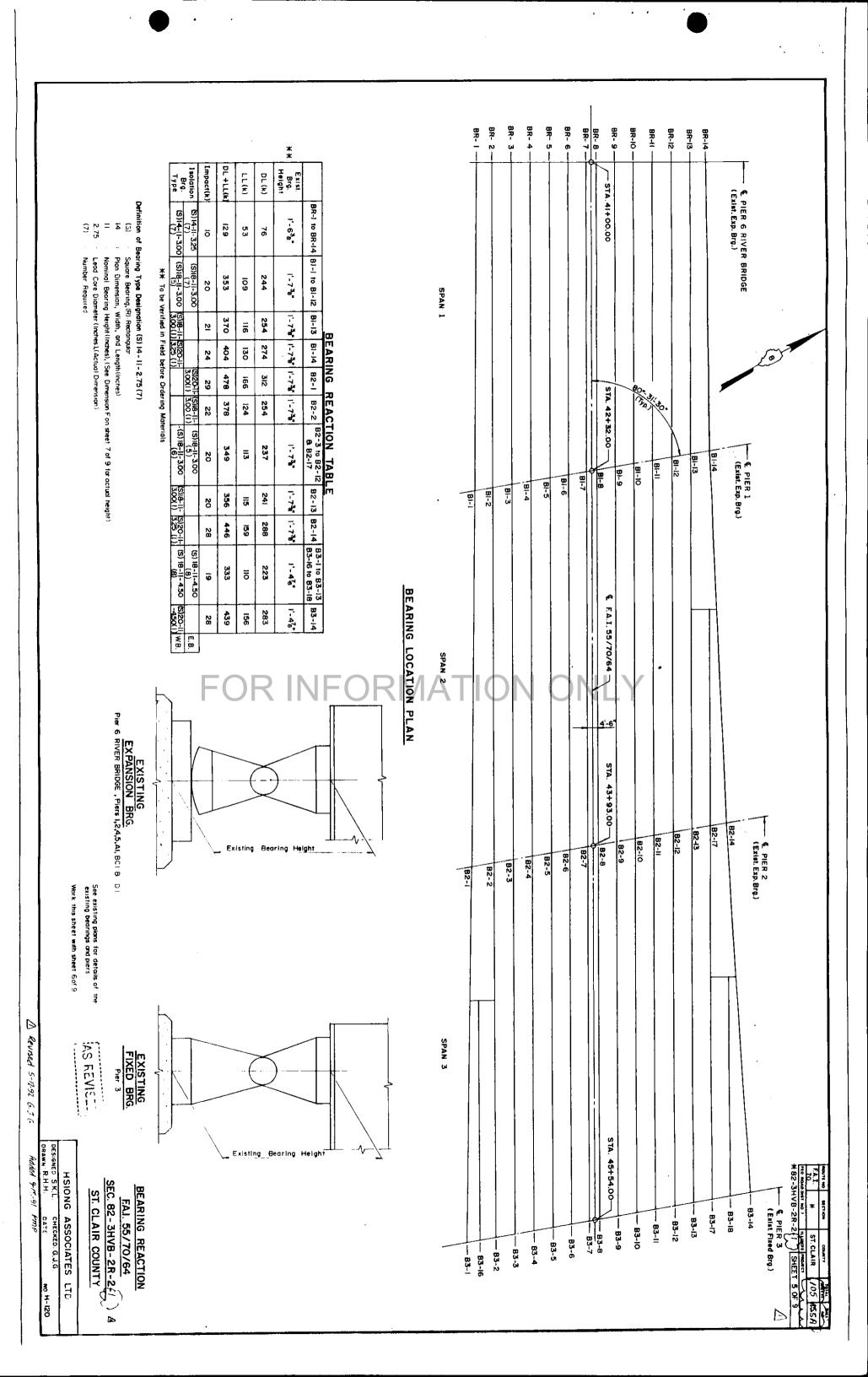


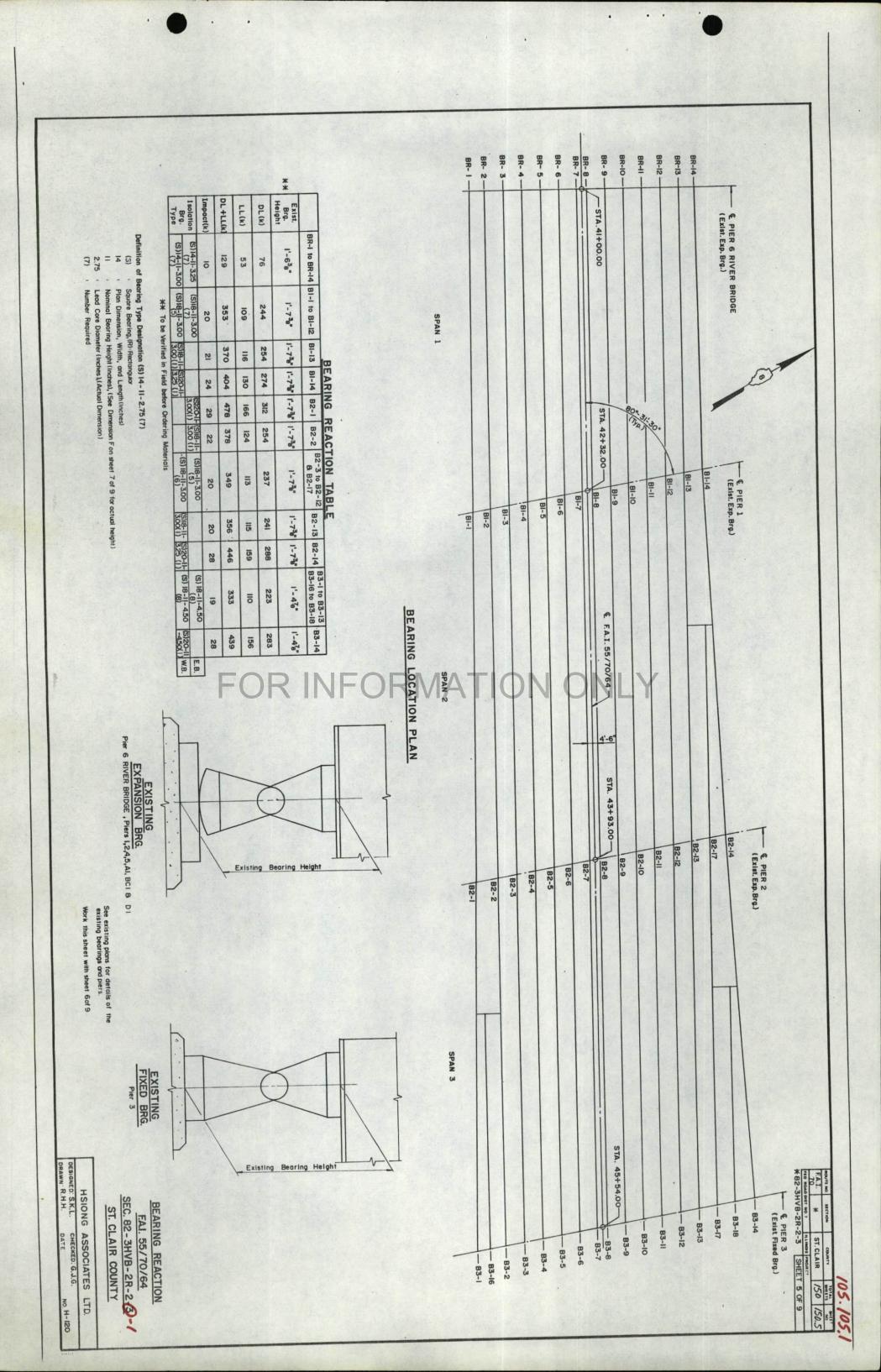


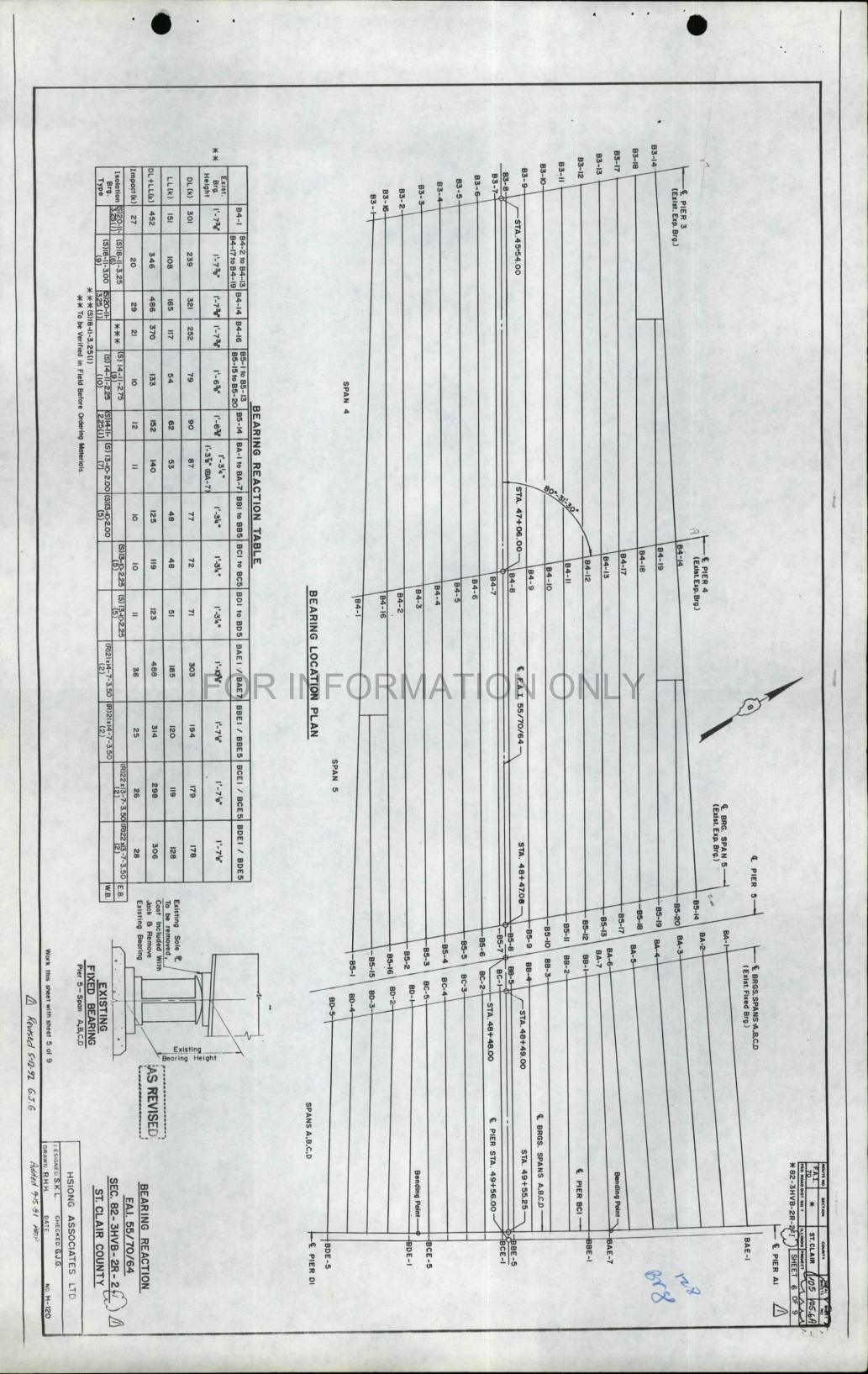


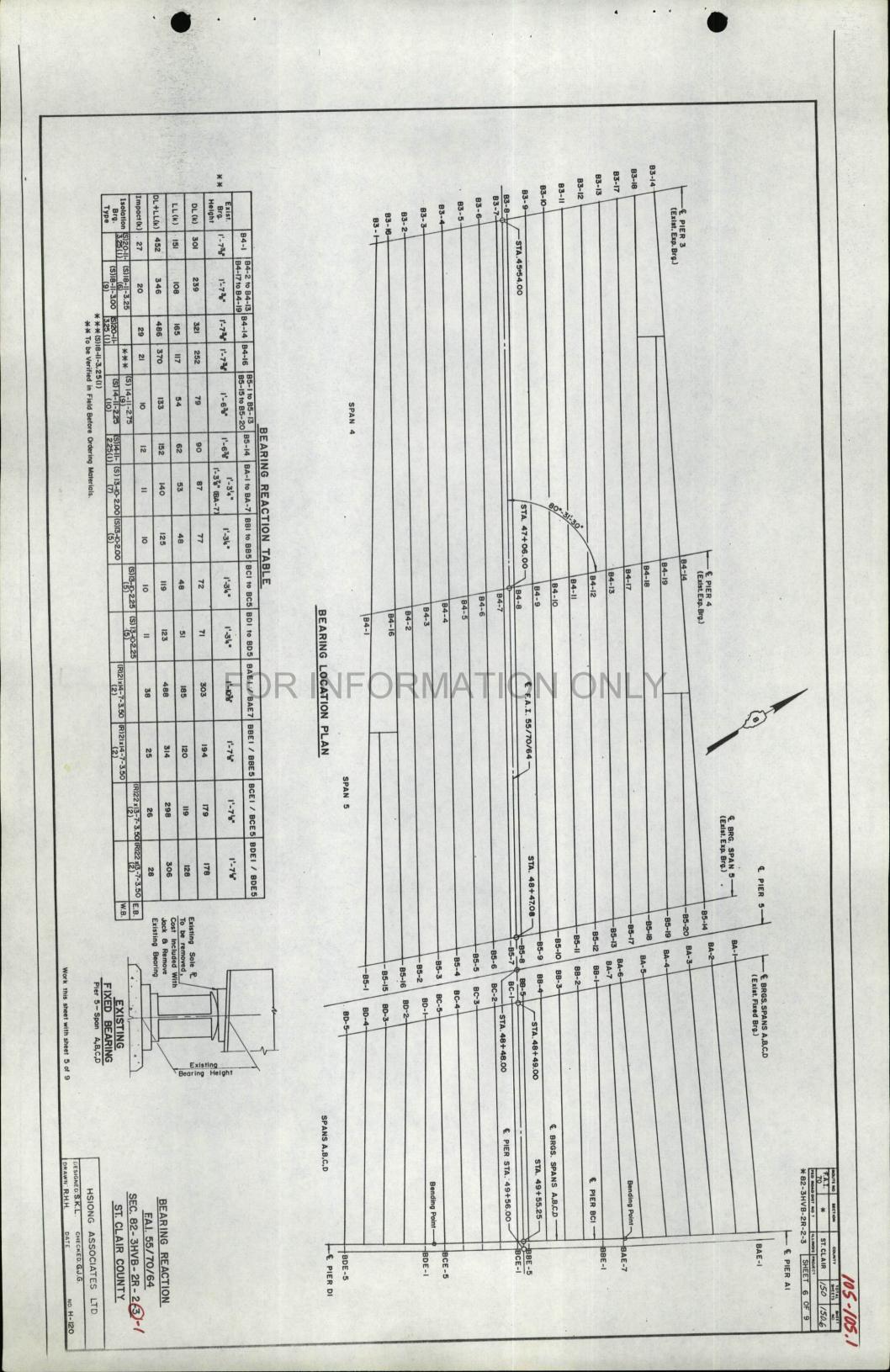


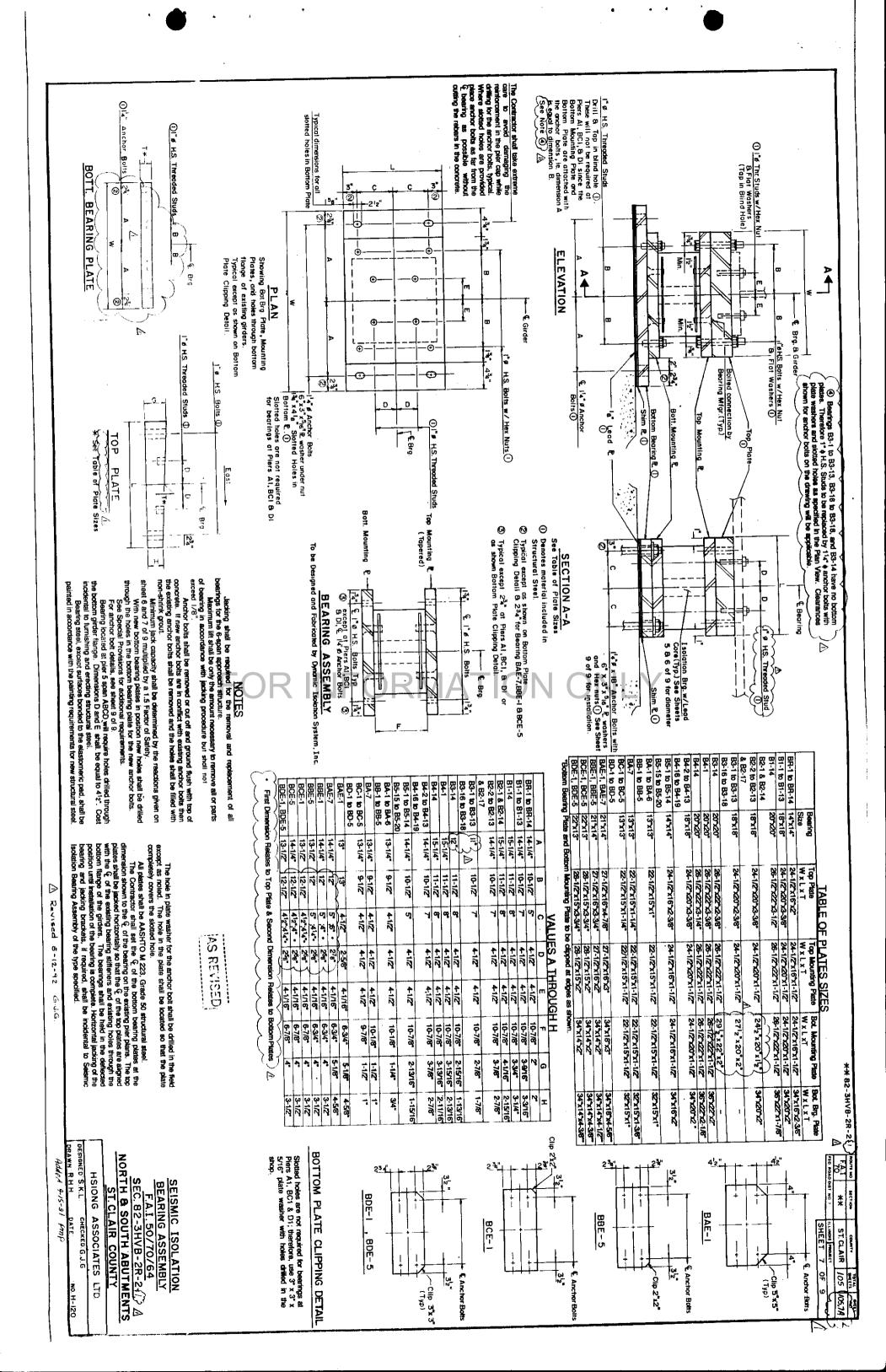


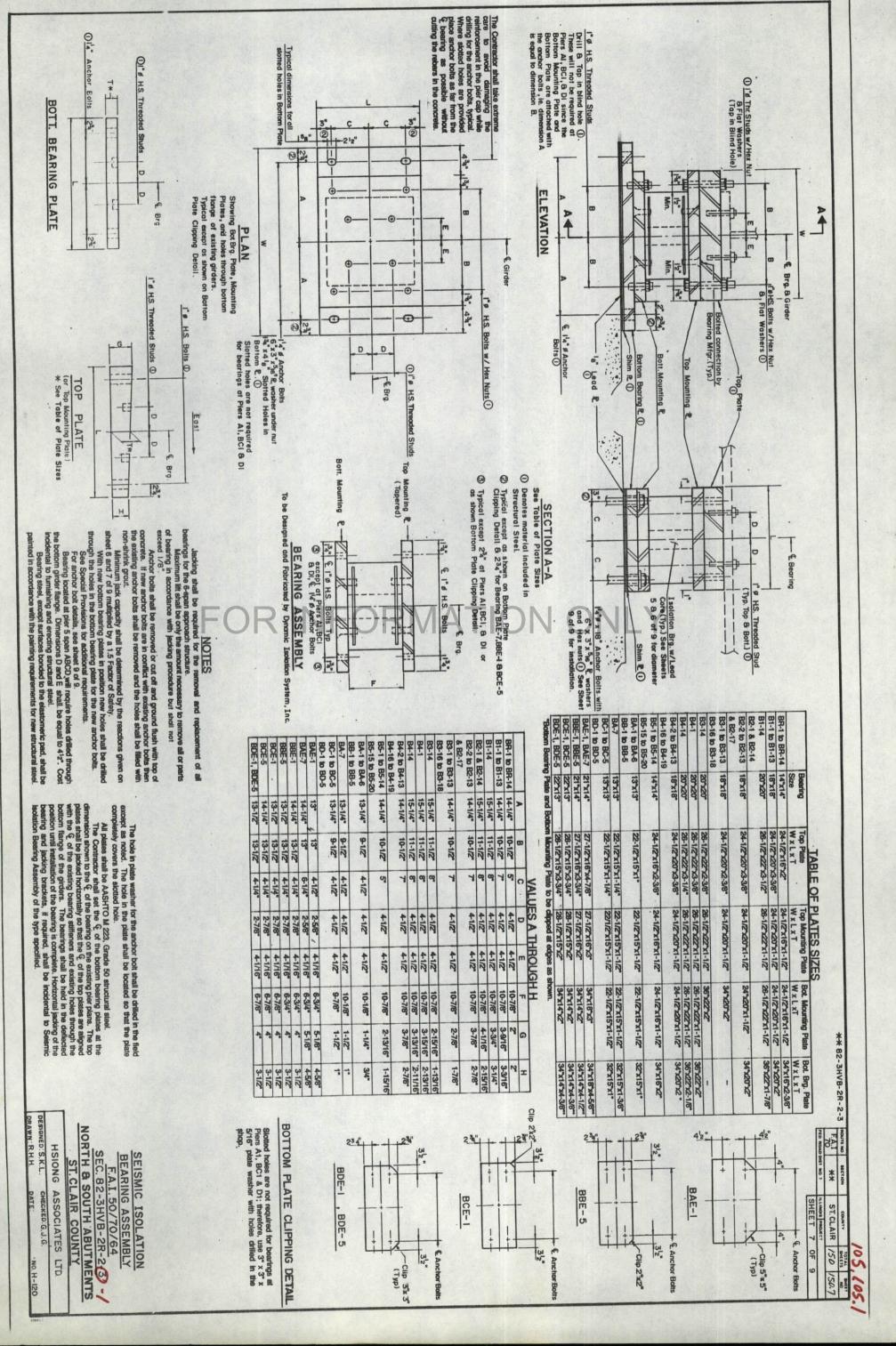


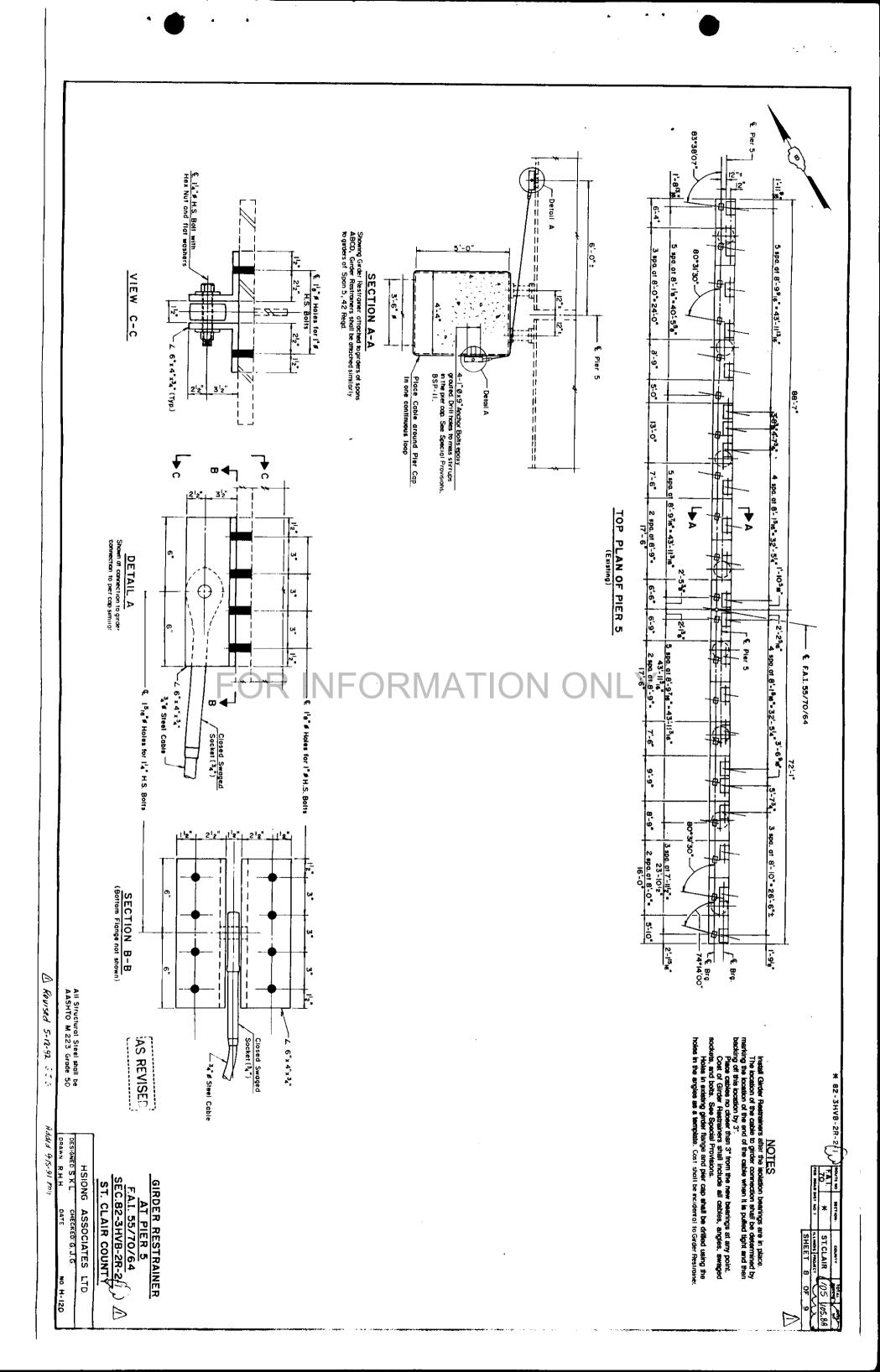


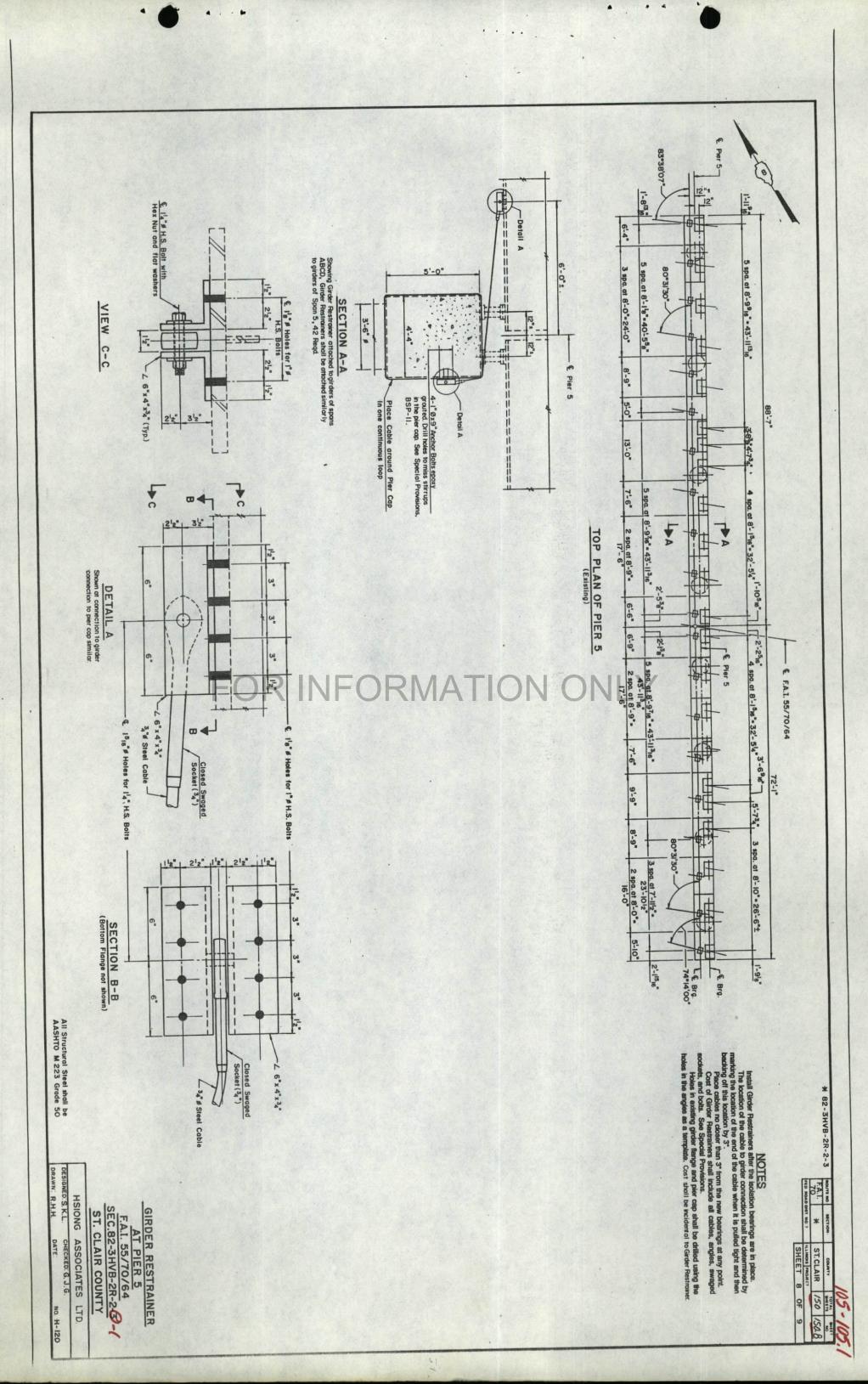


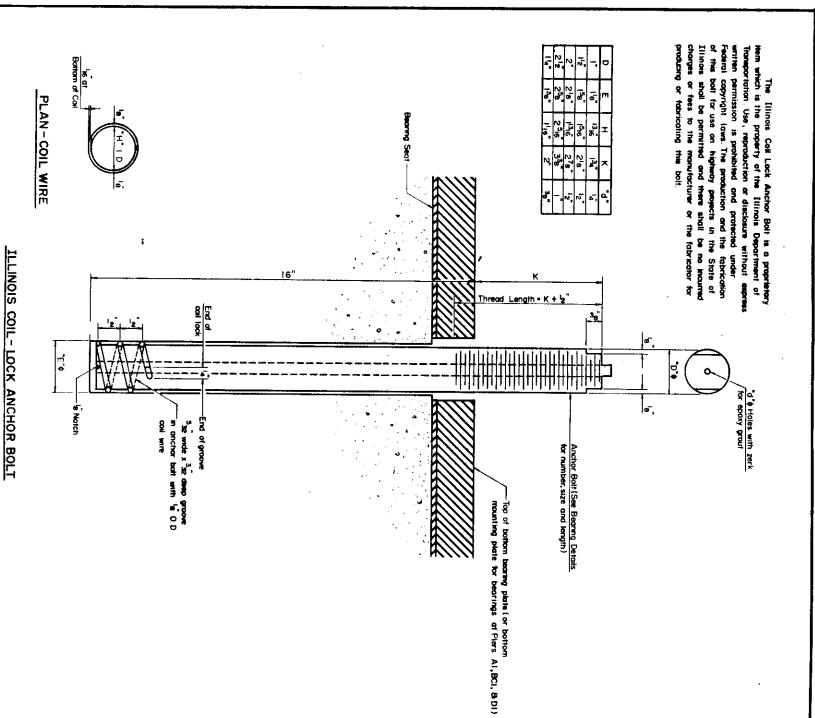












#### MATERIALS FOR ILLINOIS COIL-LOCK ANCHOR BOLT

\* 82-3HVB-2R-2-1

ROUTE NO BECTION

\*

ST. CLAIR

105 10534

SHEET 9

The anchor bolt shall be fabricated from cold drawn or hot finished seamless carbon steel mechanical subing conforming to ASTM ASI9, Grade ECC6 and supplied with hexagonal runs and out washers.

The coil wire shall be made of any suitable soft steel wire.

The finished anchor bolt shall be cleaned of rust and other foreign materials and wrapped or packaged to prevent contamination until they are installed. The epoxy grout shall be a two—component, epoxy resin banding system conforming to ASTM CBBL. Type 1, Seeded-1 end of a Class suitable for the temperature at installation.

Holes in the masonry for anchor bolts shall be drilled through the base plates to the diameter and depth shown or in accordance with the manufacturer's recommendation after beams or girders have been erached and adjusted.

Prior to setting the bolts, the holes shall be dry and all dust and loose particles shall be removed by the use of compressed.

GENERAL NOTES

oir or vacuuming.

The anchor bolts, furnished and installed and including the epoxy grout or capsules shall not be paid for separately but shall be included in the unit bid price for "FURNISHING & ERECTING STRUCTURAL STEEL."

### INSTALLATION PROCEDURE FOR THE ILLINOIS COIL-LOCK ANCHOR BOLT

With the coil wire in place, the bolt shall be inserted into the hole and turned clockwise to a snug fit in the hole. Not and washer shall be placed on the bolt. The nut shall be tensioned until the steel base plates are held securely to the concrete bearing seat.

Epoxy grout shall be pumped through the zerk fitting with a pressure gan. Pumping shall continue until the epoxy overflows the hole ground the bolt shank. After pumping is discontinued, excess epoxy shall be immediately

# ALTERNATE ANCHOR BOLTS

The Contractor may use, at his option, the capsule or the adhesive contridge type anchor rads that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rads in pre-drilled holes in accordance with the manufacturer's recommendations.

The capsule or the adhesive cartridge type anchor rods shall be a two

A threaded rod stud with rur B washer conforming to ASTM A 307.
 A sected glass capsule or a sected glass adhesive cartridge contains premeasured amounts of the adhesive chemical.

AS REVISED

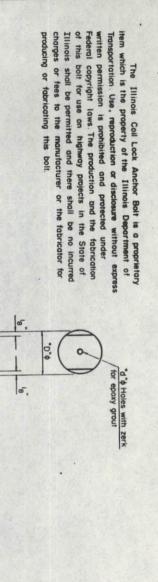
ĺ⊳

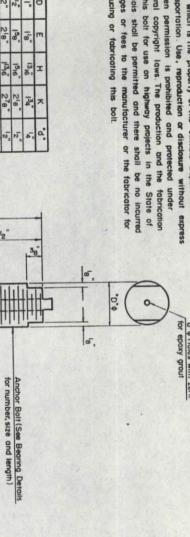
ANCHOR BOLT DETAILS FOR BEARINGS FA.I. 55/70/64 SEC.82-3HVB-2R-2-/ ST. CLAIR COUNTY

DESHANED: S.K.L. CHECKED: G.J.G. HSIONG ASSOCIATES LTD.

Added 9-15-91 Pmp

1 Revised 5-17-92 6.5.6.





Top of bottom bearing plate (or bottom mounting plate for bearings at Piers A1,BC1, &D1)

#### MATERIALS FOR ILLINOIS COIL-LOCK ANCHOR BOLT

The anchor bolt shall be fabricated from cold drawn or hot finished seamless carbon steel mechanical tubing conforming to ASTM A519, Grade 1026 and supplied with hexagonal nuts and cut washers.

The coil wire shall be made of any suitable soft steel wire.

The finished anchor bolt shall be cleaned of rust and other foreign materials and wrapped or packaged to prevent contamination until they are installed. The epoxy grout shall be a two-component, epoxy resin bonding system conforming to ASTM C681, Type 1, Geode-1 end of a Class suitable for the temperature at installation.

### INSTALLATION PROCEDURE FOR THE ILLINOIS COIL-LOCK ANCHOR BOLT

With the coil wire in place, the bolt shall be inserted into the hole and turned clockwise to a snug fit in the hole. Nut and washer shall be placed on the bolt. The nut shall be tensioned until the steel base plates are held securely to the concrete bearing seat.

Epoxy grout shall be pumped through the zerk fitting with a pressure gun. Pumping shall continue until the epoxy overflows the hole around the bolt shank. After pumping is discontinued, excess epoxy shall be immediately

# ALTERNATE ANCHOR BOLTS

The Contractor may use, at his option, the capsule or the adhesive carrindge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes in accordance with the manufacturer's recommendations.

The capsule or the adhesive cartridge type anchor rods shall be a two part system campased of  $\cdot$ 

A threaded rad stud with rut 8 washer conforming to ASTM A307.
 A secied glass capsule or a sealed glass adhesive cartridge containing premeasured amounts of the adhesive chemical.

End of coil lock

End of groove

532 wide x 32 deep groove in anchor bolt with 18 O.D.

coil wire

PLAN-COIL WIRE

ILLINOIS COIL- LOCK ANCHOR BOLT

- Notch

GENERAL NOTES

SHEET 9 OF 9 ST. CLAIR 150 1509

\* 82-3HVB-2R-2-3

Holes in the masonry for anchor bolts shall be drilled through the base plates to the diameter and depth shown or in accordance with the manufacturer's recommendation after beams or girders have been erected and adjusted.

Prior to setting the bolts, the holes shall be dry and all dust and loose particles shall be removed by the use of compressed

air or vacuuming

The anchor bolts, turnished and installed and including the epoxy grout or capsules shall not be paid for separately but shall be included in the unit bid price for FURNISHING & ERECTING STRUCTURAL STEEL.\*

ANCHOR BOLT DETAILS FOR BEARINGS F.A.I. 55/70/64 SEC. 82-3HVB-2R-2(3) -/

ST. CLAIR COUNTY

DESIGNED: S.K.L. CHECKED: G.J.G. HSIONG ASSOCIATES LTD. NO. H-120

DRAWN: R.H.H.

### INDEX OF SHEETS

- I COVER SHEET AND INDEX
- SUMMARY OF QUANTITIES AND GENERAL NOTES
- 3 PARAPET REPAIR DETAILS
- ALUMINUM HANDRAIL
- TEMPORARY BRIDGE RAIL AND GUARD RAIL DETAILS
- TEMPORARY BRIDGE RAIL
- TRAFFIC CONTROL SPECIAL

#### FEDERAL AID PLANS PROPOSED

DEPARTMENT OF TRANSPORTATION

P-98-053-86

82-3VB-HDF

3VB-H

No. 08

ST.CLAIR

STATE OF ILLINOIS

FAI ROUTE 70

SECTION 82-3VB-HDF

ST.CLAIR COUNTY

C-98-084-86

0

2299-10 2298-7 2230-14

2344-1 2340-4 2316-10 2300-3

1000

STANDARDS

TEN

0

REEL NUMBER \_\_\_\_\_\_\_\_AWARDED \_\_\_\_\_\_\_

STRUCTURE NO. 082-0005

PROJECT LOCATION STATION 44+25

ON THE FOLLOWING SHEETS

RESIDENT ENGINEER

082-0005

CONTRACT NO. 42241

LOCATION OF SECTION INDICATED THUS:-



LOCATION MAP

NO SCALE

AND

YOFQ

82-3HVB-R-4

DEPARTMENT OF TRANSPORTATION STATE OF ILLINOIS

St. Clair

# FEDERAL AID HIGHWAY

NEX

NDARDS:

2299-10

2307-6 2300-3 FOST-TENSIONING SYSTEM and GENERAL NOTES

SHEET and SUMMARY OF QUANTITIES

END CONNECTION BRACKET

SECTION 82-3HVB-R-4 PROJECT IR-70-1(141)0 ST. CLAIR COUNTY F.A.I. ROUTE 70

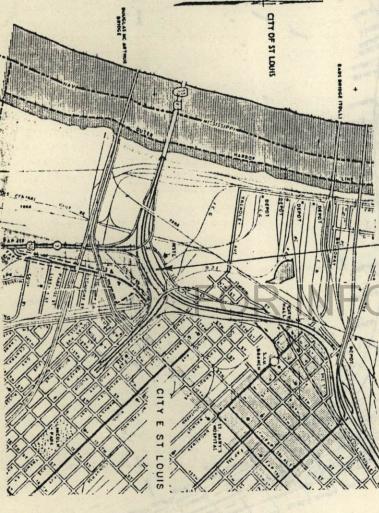
C-98-074-83

JMMARY OF QUANTITIES 723 MER COLUMN REPAIR, TYPE I 7724 PIER COLUMN REPAR, TYPE II PAY ITEM L SUM EACH EACH TINU QUANTITY \* 28

4748 MOBILIZATION

TE NO.

IN THE POPLAR STREET COMPLEX. THIS PROJECT CONSISTS OF THE PIER CAP REPAIR AT VARIOUS LOCATIONS



TEL NUMBER

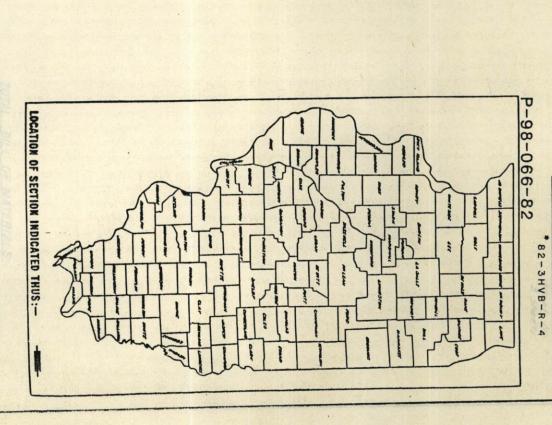
ARDED .

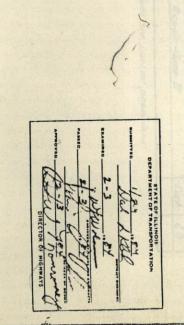
ENGINEER \_

THE FOLLOWING SHEETS

\* CONSTRUCTION TYPE CODE

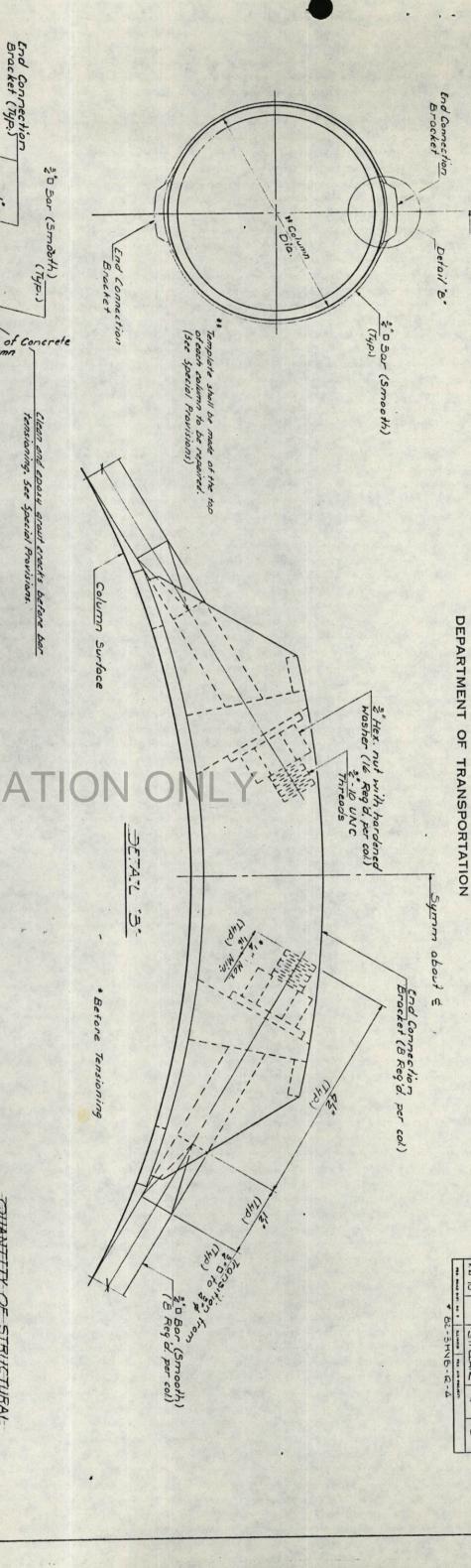
Y007





DIVISION ADMINISTRATOR	WHITE THERETH	APPROVED	DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION	
DATE			Ž	

Scale 1" = 1200'



& Column

STATE OF ILLINOIS

\*

4

(J)

SHEET NO. 2 SSHEETS

#### from the botiom bar to the top bar. Each bar shall be tensioned by tightening the nuts to the given torques according to the following BAK TENSIONING PROCEDURE The 3 o bars shall be tensioned in sequence

\*\*\* 12'8"
Lubricant

18 Typ

34

sequence:

Top of

220 Ft- 16. 110 Ft-1 Not-3-110 Ft. - 16. 220 Ft.-16. Nut +4

After tightening oll four nuts one bar they shall all be checked for 220 ft. Lb. Torque occording to the same above sequence. The Engineer shall then verify the 220 ft. -Lb. torque on all the nuts and the threads shall be set.

\*\*\*\* The spacing of the Post-Tensioning bors shall be maintained throughout the perimeter of the Columns, as shown, by using temploles.

CHECKED PS ME RER

CHECKED/2.1 > M.

Colling R. Som

APPROVED

\*\*\* A petroleum base jubricant approved by the Engineer shall cover the entire surface area between the 3 a bars and the concrete surface. This shall be accomplished by ing jubricant on the concrete surface in the area shown

for locations see Special Provisions TOP OF PIER COLUMNS

and the entire circumference of the column.

#### GENERAL NOTES

Concrete surfaces to receive fast-Tensioning System shall be smoothed by storning an arrinding as required to eliminate projections.

End Connection Bracket shall conform to the requirements of A.A.S.H.T.O. M.223 Grade 50.

The 3 a bar shall conform to the requirements of A151 4140,

quenched and tempered to a minimum yield strength of 100,000 psi. and a maximum yield strength of 120,000 psi. The hardened washer shall conform to the requirements of

The end connection breckets, 3, 0 bars, nuts and washers shall receive one shop coats of red lead paint and two shop coats of

Diuminum paint.

The 1 her not shall conform to the requirements of A.S.T.M. A-563, Grade D.H.

The 1 her not shall conform to the requirements of A.S.T.M. A-563, Grade D.H.

Plan dimensions and details relative to existing structure have been

taken from existing plans and one subject to naminal construction wandians.

It shall be the Confractor's responsibility to verify such dimensions and

details in the field and make necessary approved adjust ments pror to

construction or ordering of materials. Such variations shall not be cause

for additional compensation for a change in the scape of the work.

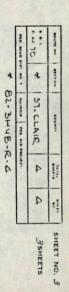
CL. DIA. ARSHTO M-223 AISI 4140 TO		96	118	40.
STEEL FER COLUMN IN LES.	7	AISI 4140	AASHTO M-223	OL. DIA.
SON WE WALL SALL SALLS				2000
	U.	07 Nr N	Trr Coul	1+++

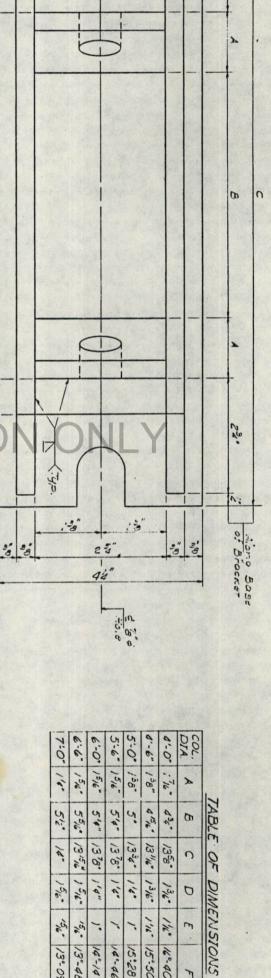
								1
	6.6.	6.0"	5.6	5:00	4'-6"	4'-0"	COL. DIA.	21566
7,17	118	110	118	116	116	118	AASHTO M-223	STOCK LELL CONDING THE POOR
168	156	144	132	120	108	96	AIS1 4140	AN AIN
285	274	262	250	236	226	214	707AL	18
٠ -	4		0	U	0		5	

All Structural Steel is incidental to Pier Column Repair - Type I or Pier Column Repair - Type I as applicable.

CLAIR COUNTY 82-3HVB-R-4

## STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION





200

di.

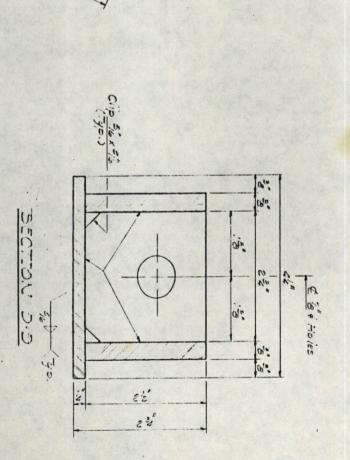
¢;;

04

£ 6 × - az

7.6 10. 234.

7:0	6.6.	6.00	5'-6"	5.00	46"	4'-0"	DIA.
1100	15%.	1516"	1516	138"	138"	: 74"	×
512.	55%	5'4"	54.	5.	415%	43.	6
14.	13.5%	1378.	1378	1334"	1311/4"	1358.	0
15%.	15%	1'4"	1'4"	114.	1316"	13%	D
15%	15%	,	1	1	1116	11/10	E .
13-09-07-	13-46-10"	14-14-18"	140-46-31"	15:28:01"	15.50-23"	16-40:30"	7
42.	39"	36.	33.	30.	27.	24.	6
4434"	4180"	38%"	35%	3254.	2934.	2630	I



APPROVED WORLD MOSTRATIVES	1
STRUTTONTS ON SERVING TO RECORDE	
- XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Collins Sommer
PASSED BURNET & SHOOL DESCH	CHECKED FLA S MC
EXAMINED GAMES Tichen	DESIGNED IN F ICOLNEY
August a mees	

OVED WARDEN AND STRACTURES	Budefit i mod besch	MED James I Transferra	fugust a grees

END COUNTECTION BRACKET

04

ST CLAIR COUNTY

## DEPARTMENT OF TRANSPORTATION STATE OF ILLINOIS

ST CLAIR

TYLUL TYLUL

## FEDERAL PLANS

F.A.I. ROUTE 70

TITLE SHEET
GENERAL PLAN, SUMMARY OF QUANTITIES
POST - TENSIONING TESTEM, GENERAL NOTES

INDEX

OF SHEETS

END CONNECTION CRACKE!

STANDARDS

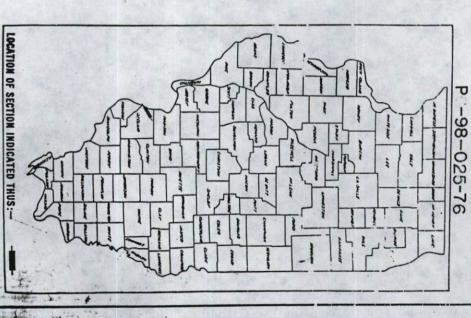
2314-4 2315-5

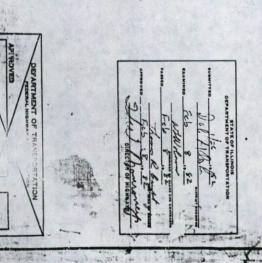
SECTION 82-3HVB-R-3

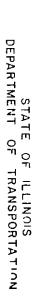
ST. CLAIR COUNTY

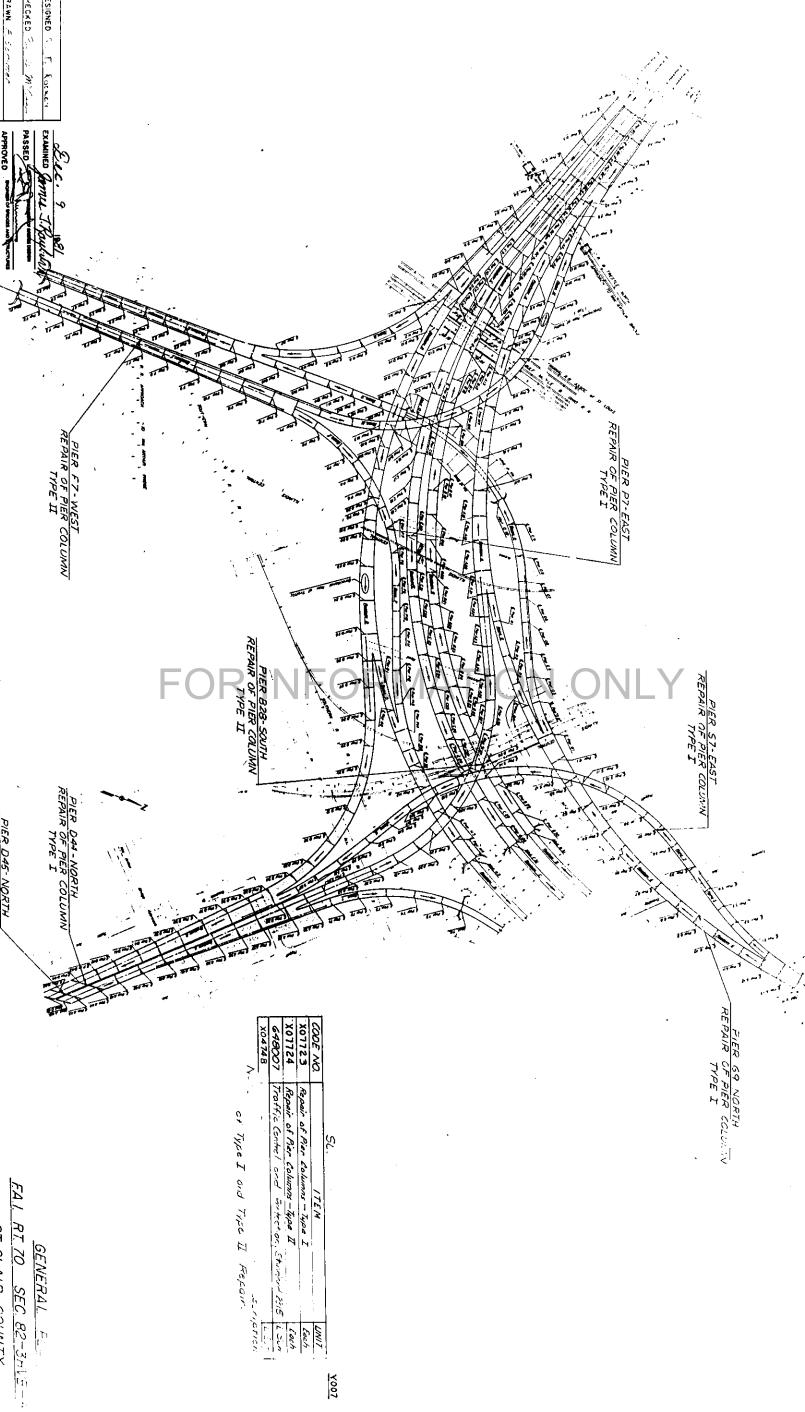
PIER CAP REPAIRS WITHIN POPLAR STREET COMPLEX

C-98-089-8I







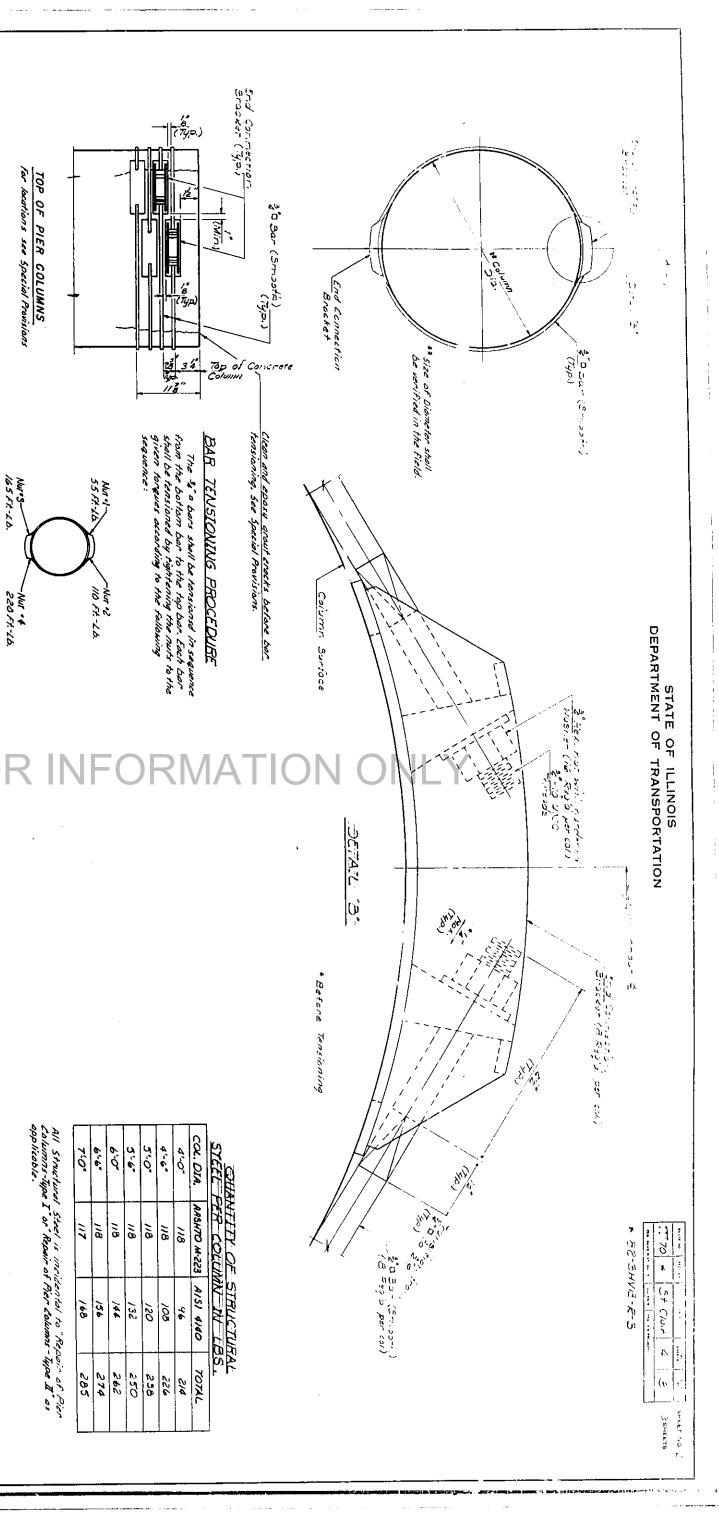


Y007

ST CLAIR COUNTY

うるがないのであっているのでは、 

4/



CHECKED PS ME RTA COLLING DRAWN J. SCHNELLER CHECKED/RLS. M.C.

After tightening oll four nuts one bor they shall all be checked for 220 Ft.-Lb.
Torque according to the same above sequence and the threads shall be set.

GENERAL NOTES

Surfaces to receive Post - Tensioning System shall be cleaned
as required to eliminate projections.
End Connection Bracket shall conform to the requirements of A.A.S.H.T.O.
M.223 Grade 50.
The 30 bar shall conform to the requirements of AISI 4140
The 31 of bar shall conform to the requirements of A.S.T.M.
[Rockwell C Hardness of 25 to 30].

ubricant approved by the Engineer shall be used between the

re end connection bracket and % tar shall be galvanized shop fabrication in accordance with A.A.S.H.T.O.M-III

irs shall be galvanized in accordince with N.A.S.H.T.O. R. 232. We defails relative to existing structure have been has and one subject to nominal construction within the first so not seen has a responsibility is verify such dimensions and make necessary approved adjustments prior to the cause indig of materials. Such variations shall not be cause in a point for the quantity octually furnished at

VIEW CONTRACTOR

13.

305T-TENSIONING SYSTEM TER COLUMNS REPAIR TER TO SEC. 62:5HVE-S-3

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

 $\sigma$ V(u V (17,0.

0 0

4"

 $V_{i,n}$ 

1

# 20 + 10/g

à. j.

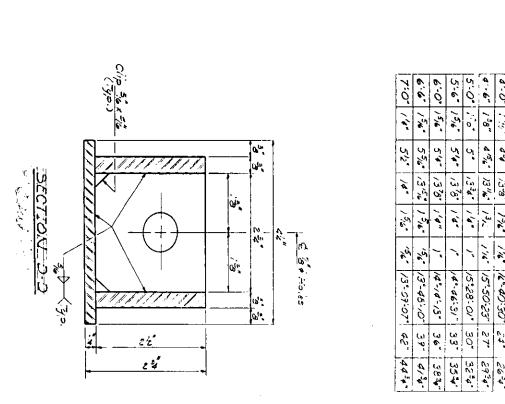
	13-09-07- 42"	'n.	15.6	74.	512.	14.	7:0" /4"
١ ا	13-45-10 39-	,5,	15%	13/5	55%.	15%.	6.6
36	14-14-15"	,'		13%	54"	15/6"	6.0
33	14.46:31	`	/'a"	ر د د	54.	15,6	5.6
30.	15:28:01	``	14.	ડેક જ	υį	0,	2.0
27.	15°-50-23"	1111	3	1311/2.	,3	138"	6.
1.2	105:00-31	11/10	13%.	\\ \( \) \(	434	: ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	4'-0"
6	الر	س	່ວ	ſ,	Q	>	0.7



ST-TENSIONING SYSTEM ST. COLUMNS REPAIR
RT 70 SEC. 82-3HVB-R-3
ST. CLAIR COUNIX

END CONNECTION BRACKET

0



7:0-	6.6.	6.0.	5-6- 1:	5.0	4.6"	4.0	CO2.
14.	5,4	2/6	5,6	0,	8,	(g)	<b>A</b>
512	55%	54"	54	ڻ <b>,</b>	73	434.	6
4.	13/5	13%	13 %	/3 d	131/4.	/3%	f)
) 5,6	15%	110"	1'4"	14.	, in	13%	5
'n.	,5,	),	1	1"	"","	11/4	٣
13-09:07	13-45-10	14-14-15"	14.46:31	15:28:01	15°-50-23"	105:00-21	, J
5	39.	36	S	30.	27.	£2.	6
44-4"	4/30-	383,	354.	32.4.	2934.	2630	I

(O)		70	No and of
H	4- 10 7	*	Merc
62-3HVE-R-3		St Clair	1.0477
	4	4	Į.

	St Clair	E.L.
1	4	# 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	4	1
	Distriction of the second	S ISET NO. 3

P-98-025-76

SHEET NO.

COVER SHEET, INDEX OF SHEETS

INDEX OF SHEETS

SUMMARY OF QUANTITIES, GENERAL PLAN

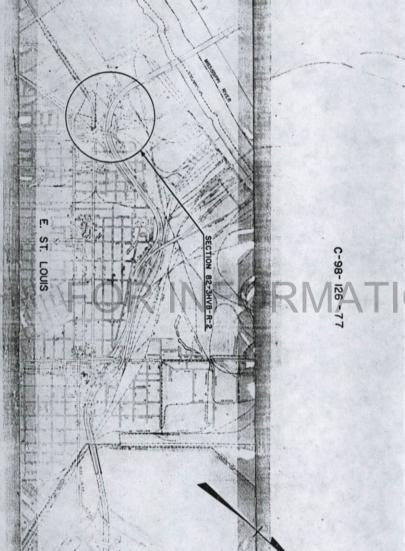
SCHEDULE OF REPAIRS, GENERAL NOTES

DETAILS OF CONSTRUCTION

SECTION 82-3HVB-R-2 FAI ROUTE 70

ST. CLAIR COUNTY BRIDGE REPAIRS

5000-280



LOCATION OF SECTION INDICATED THUS:-

CONTRACT NO. 32613

AS BUILT CHANGES WERE MADE ON THE FOLLOWING SHEETS

RESIDENT ENGINEER

REEL NUMBER

ST. CLAIR C. JITTY

SECTION 82-3HV8-R-2 F. A LIROUTE 70

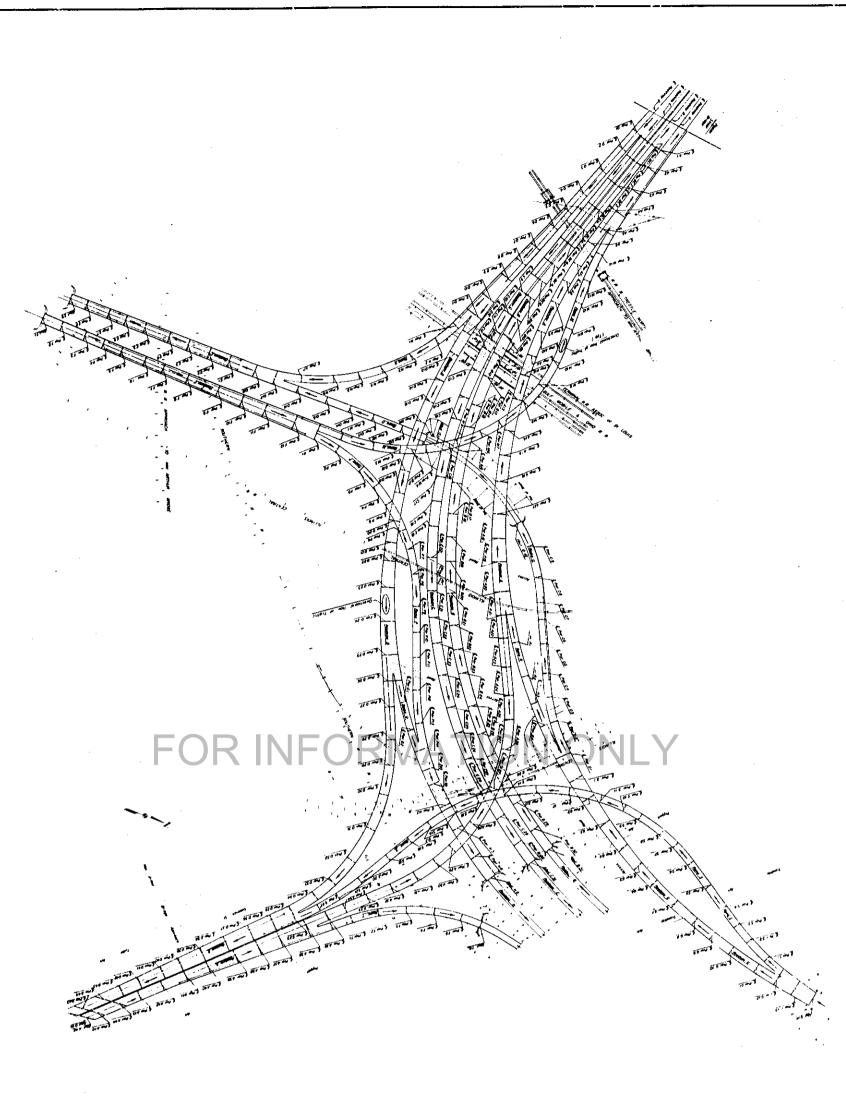
SCALE: 1 INCH : 1600 FEET

LOCATION MAP

93

Territor Invited Incident





3 2 45	EACH CAL MO	PER CALLAGE ALPAIR ABUT REPAIR ENGR. FIELD OFFICE TYPE-A	X64601
AVO A	បៈរាក		NO.
		SUMMARY OF QUANTITIES	

GENERAL PLAN FAI RTE. 70 SEC. 82-3HVD: 11-20 ST. CLAIR CO.

SUMMARY OF QUANTITIES

	7ABLE	
	5	l
	OF COLLMITS	
	31	
	5	Į
	TO BE REPAIRED	
	CRACKS (LESS THAN 15	
	(LESS	
,	THAN	
,	15")	

	Method 2 Method 1		· ·	4.6.	ļ
	Method 2		æ		Ì
			6	4:6	
	Method /	82-3HV8-3	/3	4.0	
	Method /		5	かん	. 1
	- 1	82-3HVB	3	7-0:	_
	- [		0		
	Method ?		7 6	200	\$ C. S
	Method /		2	400	
	-17		6-10	4.6	54 6
	ì.		7-7	4'-0"	S-1 E
	Illestico L		0	4-0"	
	Wethod 2		/2	4:0"	
	(/ki/nod /	-	8	4.6.	l
	Method I			4:-0:	
	Method !	82-34VB-/		4.0.	U
	Method 2	82-3HVB-2		410"	
	Method 1		/3	a'-O"	
	Melhal I	82-341/8-1	В	4'-0"	
	Method 1		6-7	41-6-	
AG.   B12   S3HVB-1   Illesthool	Method 1		۵/	4-0"	
AG.   AG	Method 2	82-3HV8-2	/3	4'-0-	1
	Method 1			7.0	- {
A-G	(Rethod /	82-34/8-/		4:07	}
	Method /	82-3HVB ·		Ž,	1
	Method /	82-3HVB-2	!	Ž	1
	Method 2		ì	Ž.	1
	Method ?		ħč	2,0	
	Method ?	20000	, i	4.0	
	Mother !	1-AME-08		9.7	L
A - 6 - 6 - 7   A - 6 - 7	Method /		014	4.6	F-11 E
A - 6 - 6 - 7   A - 6 - 7	Meshad !		00	4-0	
A - 6 - 8 - 12   S - 3 + V - 1   S - 1 + V - 1   S - 1 + V - 1   S - 1 + V - 1   S - 1 + V - 1   S - 1 + V - 1   S - 1 + V - 1   S - 1 + V - 1   S - 1 + V - 1   S - 1 + V - 1   S - 1 + V - 1 + V - 1 + V - 1 + V - 1   S - 1 + V -	Method /		0	4.0	L
A - 6 - 8 - 12   S - 3 + V - 1   S - 1 + V - 1   S - 1 + V - 1   S - 1 + V - 1   S - 1 + V - 1   S - 1 + V - 1   S - 1 + V - 1   S - 1 + V - 1   S - 1 + V - 1   S - 1 + V - 1   S - 1 + V -	Me ikad I		1,4	4.0	l
A'-6'   A'-6	Mathad !		/4	4.0	ĺ
	(her/ha)		//	4.0	L
A'-6'   A'-6	(l/et/log)		7	4.0.	
A'-6'   A'-6	(i)-thod c	182-3M/B-Z		4.0	
	1 20,373	82-3HVB-3		4'-0"	
A'-6'   A'-6				4'-0"	
A'-6'   A'-6			9	4.0	
A'-6'   A-6'   A-7'   A'-6'   A'-6'   A-7'   A'-6'   A'	(lichad )		/3	4'-0"	
A'-6'   A'-6	Method /			4'-6"	. 1
A'-6'   B-12   S-34VB-1   Inching	Method /	82.3HVB-1	2	4.0.	L
A'-6'   A-7   A'-6'   A-7   A'-6'   A-7   A'-6'   A-7   A'-6'   A-7   A'-6'   A-7   A'-7	Method 1	82-3HVB		4.6	.
A'-6'   A'-6	Method 2			4.0.	`\
A'-6'   B-12   S-3HVB-1   Ifelhood	1. 1. 1.		4	2	1
A'-6'   A-6'   B-1/2   B-3HVB-1   Method	-	 	پ	2.0	
A'-6''   B-/2   S2-3HVB-1   II	1	82-3HV- '	/0	7.0	
	Method 1	82-3HVB	00	4.0	ı
	Method 1		/3	2.10	Т
	Method 2		12	200	
1. 4.6. 8.72 92.34V8-1 11.	(1/exb2)		3-0-7	2,4	
	Method 1	82-3HVB	10-12	200	l
1. 4.6." 8.12 92.3HV8-1 11 12 12 12 12 12 12 12 12 12 12 12 12	Method 2		/6	4	П
1 4'-6" 8.12 92.3HVB-1 11 4'-0" 6 82.3HVB-3 11 4'-0	Memoj /		13	4.0	
1. 4.6" 8.12 92.3HVB-1 11 12 12 12 12 14 12 1 11 12 12 12 12 14 12 1 11 12 12 12 12 12 12 12 12 12 12 1	Method 1	CE (17.00)	3	4.0	Į
1. 4.6. 8.12 92.3HV8-1 11 12 12 13 14 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15	Method :	222000		4.0	П
1. 4'-6" 8.72 92.3HV8-1 11 3. 4'-0" 6 5. 4'-0" 6 1. 4'-0" 8.70 1. 5'-0 1. 5'	West for		12	4'6'	
1/2 4'-6" 8-12 02:3HV8-1 Method 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	111011001		3-3	4.6"	- 1
3 4.6" 8.72 92.3Hv8-1 11 3 4.00 6 4.00 6 4.00 6 4.00 6 4.00 8.70	(Method )	BK-3HVB-3	4	6.0.	ļ
7. 4.6. 8.72 0.3HV8-1 112. 3. 4.0. 12 113. 3. 4.0. 11 113. 3. 4.0. 11 113. 3. 4.6. 8.70 113.	(liethod !		10	4.0	
3 4'-6" 8-12 9:3HV8-1 11:2 3 4'-0" 12 11:2 3 4'-0" 11 11:2	Weinod 2		8-10	4'-6-	1
7. 4'-6" 8-72 92-3HV8-1 112-112-112-112-112-112-112-112-112-1	Method 2		1/	4'-0"	ì
1. 4.6" 8./2 92.3HV.9-1 Med	Methos 2		6	2 0	A-5
8-17 8-23HVB-1 1/2	Method 1		17		
	Miethod /	92-3HV-8-1	$\overline{}$	4-6"	J

#### ABUTMENT REPAIR

	F-1-E	F-1-W	
2 Each			19176
	,	See Spec. Prov. & Detail On Sheet 4 in Plans	200

## TABLE OF COLUMNS TO BE REPAIRED CRACKS (15" OR LARGER)

2,01010/	4		S-18 E	ı		1	N.		ì	П	Н	Ŋ	V				١. ١	N	Ŀ	ν	11	W-10 E	Γ	V		N	V	1	L	Γ		٦	ı	Ш	Н	Q 0=3	ľ	1			4	ľ	D-37 W	N	, //		D-27 N	D-25 U	L	V			1	ı	ı				C-5 S	ı		8-27 S						ì			l		ı	1	0 61 11	-	1	1	İ		i	1
75 Facu	4-6"	6.0	2.0	6-6	7-0	100 P	2,0		Ž.	2,0	116"	4.6.	4'-0"	4'-0"	4-6"	46.	4'-0'	4-0"	4-0	4'-0	4.0.	4.0	Ö	4.0	4-0	2 4	4'-0"	a-0	4'-0"	4-0	10-12	5-0	3.0	1 2	, - Ö.	40	0		4-0-	4'-6"	40-	4'-0"	4-6	4.6.	4'-0"	4-0	4-2	4'-6"	4-0	4-0	4-0	4-0	7. 9.	700.	4.0	2'-0'	Q'-O"	4'-0"	Q-0	0-0	4'-0"	4.0	4'-0"	4'-6"	4'-0"	4.0	4'-0"	4'-0"	4-0	4-0	4.0	4.0	2 6	7:7:	1,-0,	A'- C'	4'-6"	4.0	v0.	4-0	4'-0"	
	1,3	14-62	C7.77	6:44:60	15010	200	0-24	9/	3	۲,	21-30	24	/8		9-40	23-30	16	8-15-25	16	33	16		97	K/2CJ	(B)	ò	12-18	22-24	/9	33	/6	02	10-24	10 5/	7/	/8	/2-/7		16	9-20	,77	/8	7-/8-23	2-16	36	14-38	, /B	25	61.31	13 10	1.10	2/	/2	8/	22	2/	10.24	10-15-15	24	28-36-39	1/6	-2/	/7	/6	29		18	34	8-74	/B	/6.6	26/	à	/5	/5	8/-6/	10-17	23	/5	ñ	20.00	
	02.00	00 310/8-3												62-3418-1				2-04HC-79	22 25 25 25 25 25 25 25 25 25 25 25 25 2	07.0440-7	U										8Z-3HVB-/	07-37/0	00 0000					-	82-3HVB-2				82-3410-3									06-2010-1	82-4UVA-1						82-3HVB													0,00	W2 201/2	-   				82-344/8-3			182 -4 VB-1	1
	12.18.40	1,100	B-16-1 2	To bear /	Medand 1	(The thron) Z	Mother 2	Mother 2	Merand 1	Method 2	Mah 2	Merhod 2	Method I	Method !	(lethod )	11/2:000	"Jethod"	1/0:000/	"YETHOR "	The street	Tolked /	maker /	100000	Make 2	Method ?	Maihar ?	Method 2	Meinal 2	Presid 2	Themad !	) acutalis	("Jerriog &	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Malkey 1	Martind 1	Method 2	11.04.36						Method 2									Wildings 6		) pringli		Method 2		Menod 1	Meinad I	Mernod 1		Meinod 2		Meinod 2		Method 2					(/let/nod 2	III/EH/IOG I	- 1	- 1	mathew ?	Method 2	- 1	Method 1	market 2	Markad 2	Meitral 2	

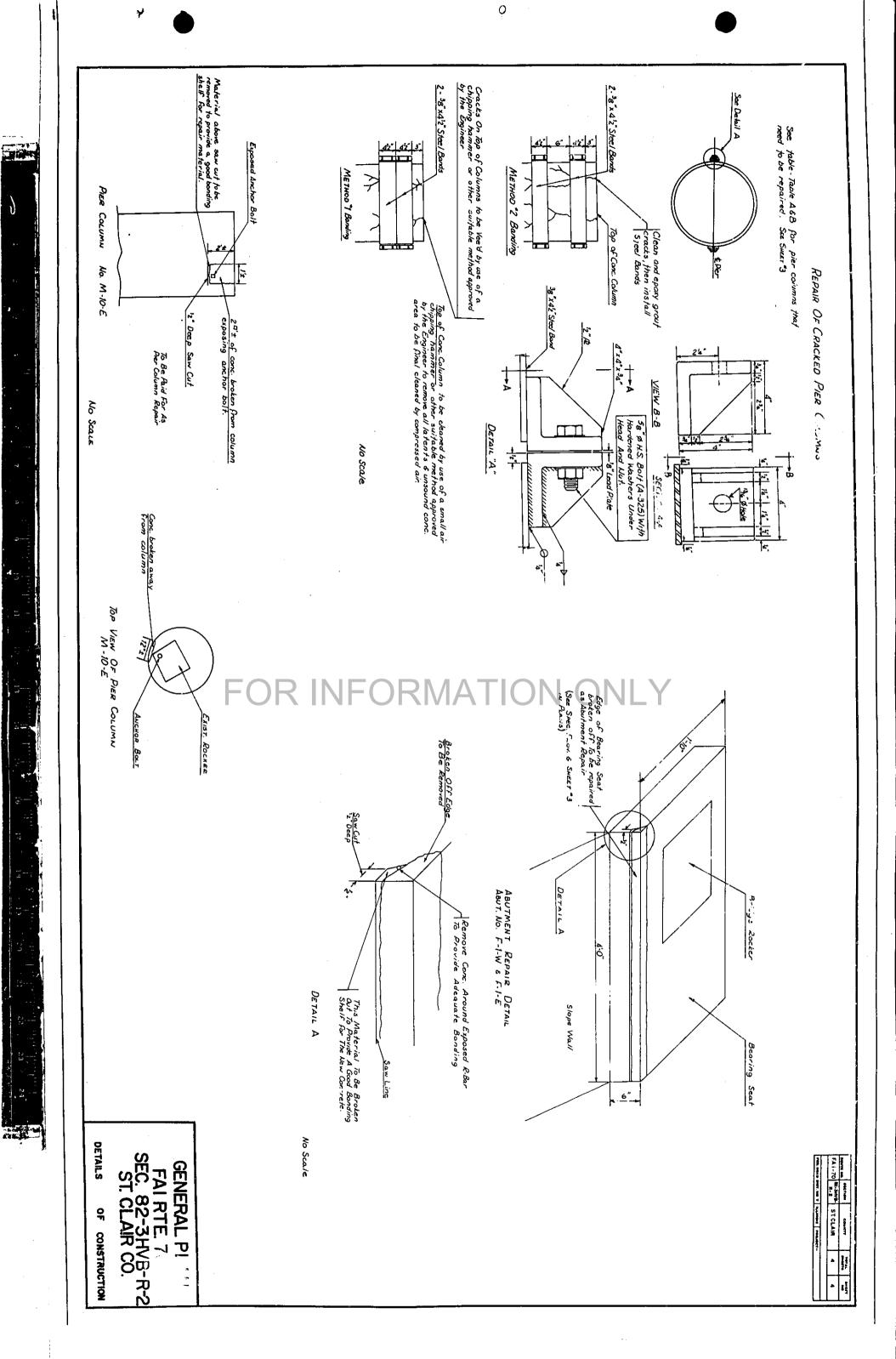
TOTAL COLUMNS TO BE REPAIRED EACH 145

\* 82-3HVB-R-2 FALL-70 \* ST. CLAIR

(a) For details of method 162 see Sheet \*4
(b) See Special Provisions for treatment of cracks in Pier Columns.
(a) It will be the responsibility of the contractor to verify the Dia. of all pier columns prior to the fabrication of the bands.
(a) Steel bands shall receive one shop coat of red lead paint and two field coats of Alum.
Raint.

\*See Spec. Prov for work involved and unit of Pay

JTE 70 3HVB-R-2 ABUT'S



## DEPARTMENT OF TRANSPORTATION STATE OF ILLINOIS

SET NO. 4 OF 4 SETS

ST CLAIR 30 I

PC-98--004-73

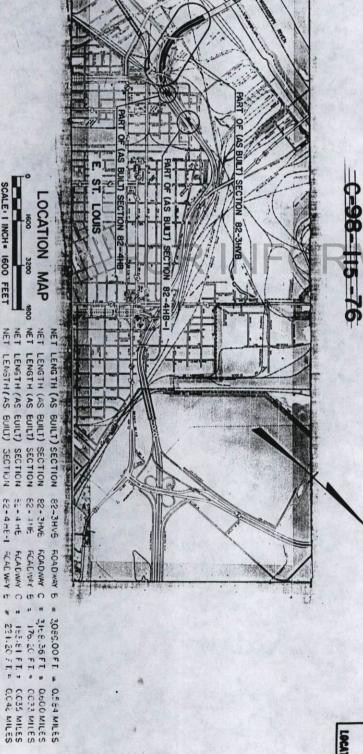
FEDERAL AID PLANS FOR PROPOSED

FOR

INDEX OF SHEETS SHEET NO. 2

PROJECT 1-70-11 )0 SECTION 82-(3,4) DRS ST. CLAIR COUNTY DECK RESURFACING FAIL ROUTE 70

5000-T80



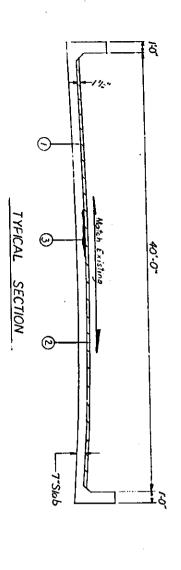
LOCATION OF SECTION INDICATED THUS:-

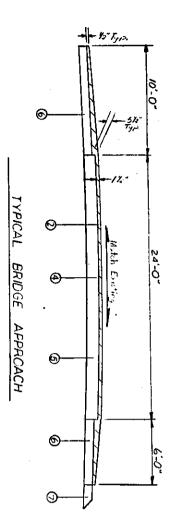
REEL NUMBER \_\_\_\_\_\_
AWARDED RESIDENT ENGINEER \_\_\_\_

AS BUILT CHANGES WERE MADE ON THE FOLLOWING SHEETS

CONTRACT NO.

ECTION 82-(3,4)085 EAI. ROUTE 70





FOR INFORMATION

LEGEND

- Waterproofing Membrone System
- Bituminous Concrete Surface Course, Mixture E, Class I
- Deck Slab Repair (Partial)
- Bituminous Naterials (Prime Coat)
- <u> ୭୭୭୭୭</u>୭୭ Existing Pavement
  Existing Stabilized Shoulder
- Existing Aggregate Shoulder

	4.0,	TOTALS 135'-0" 4'-0"	ALS	707	
	2'-0"	67.6	IZ C Y *	MABUT.	,
	2:-0"	67-6"	正子工	S ABUT	_
	PJS	DAM	CASE	NUMBER CCATION CASE CONTINUE	NUMB
	4.	LEONE NE	200	JOINT JOINT	NOF
JOINT MODIFICATION SCHEDULS	FICATIO	MOD	OINT	·	

ALTON COUNTY SWITE PROFES

\*THE CONTRACTOR SHALL NOT USE TRANSFLEX 2004 AT THIS LOCATION

	LANE D	LANE	JANE	LANE	Baseline A	STATION	STATION	
	0	£1. 2	B .52	A .11	A			DE
						1+50	0+50	CK S
į	.32	3.19				2+00	0+00 0+50 1+50 2+00 2+50 LANE	DECK SLAB REPAIR SCHEDULE
		.13	.09			2+50	2+00	(EPAI
		.23		:		3+00	2+50	RSCH
4.72	.32	3.68	.61	11.		j		EDUL
1.57					Fin perin)	/ P. C.	DECK SLAB	
3./5		•			(720,020)	(DA DTIAL)	DECK SLAB	

F.A.I. ROUTE

SECTION 82-(3,4,DRS

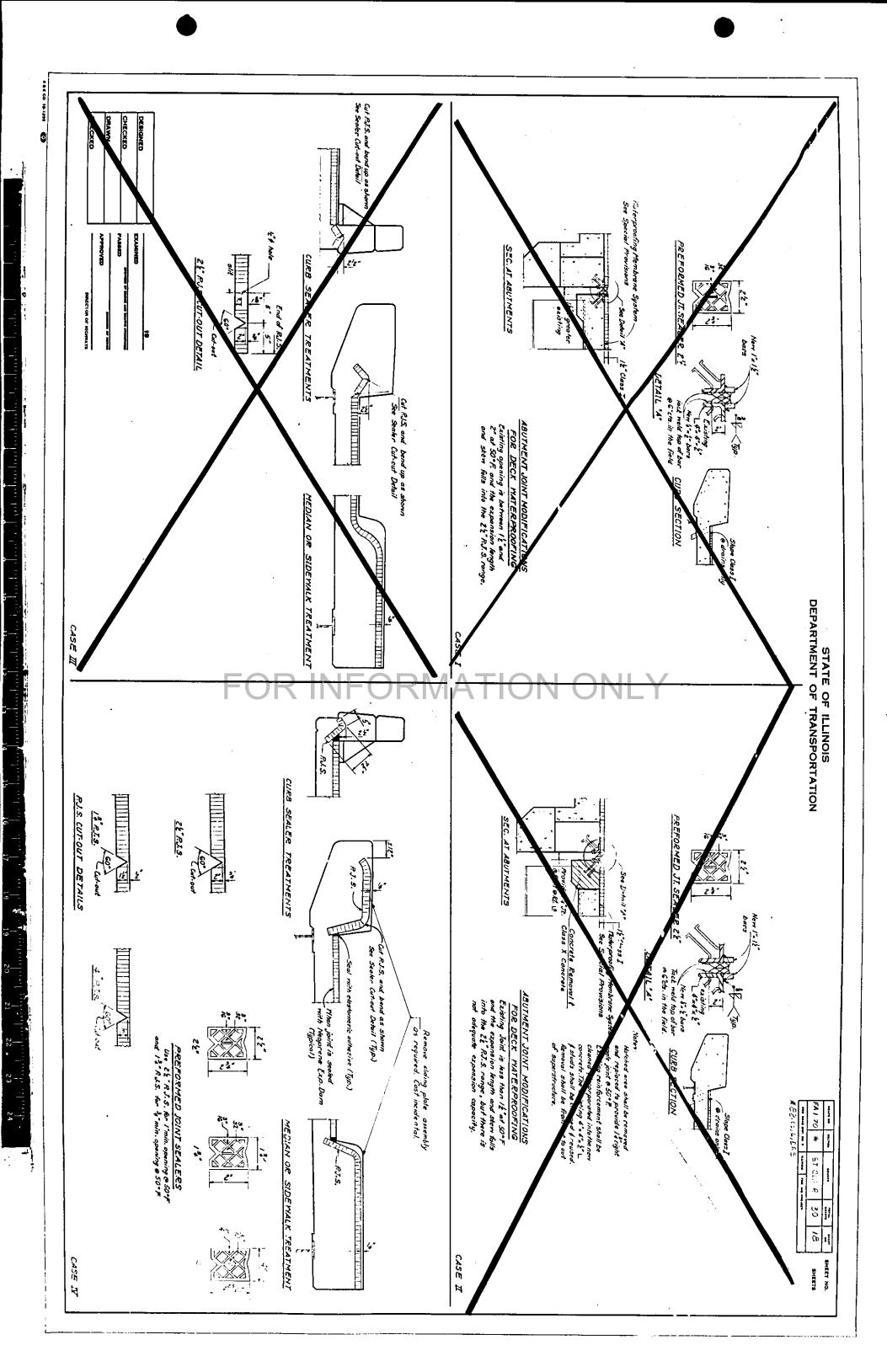
ST. CLAIR COUNTY

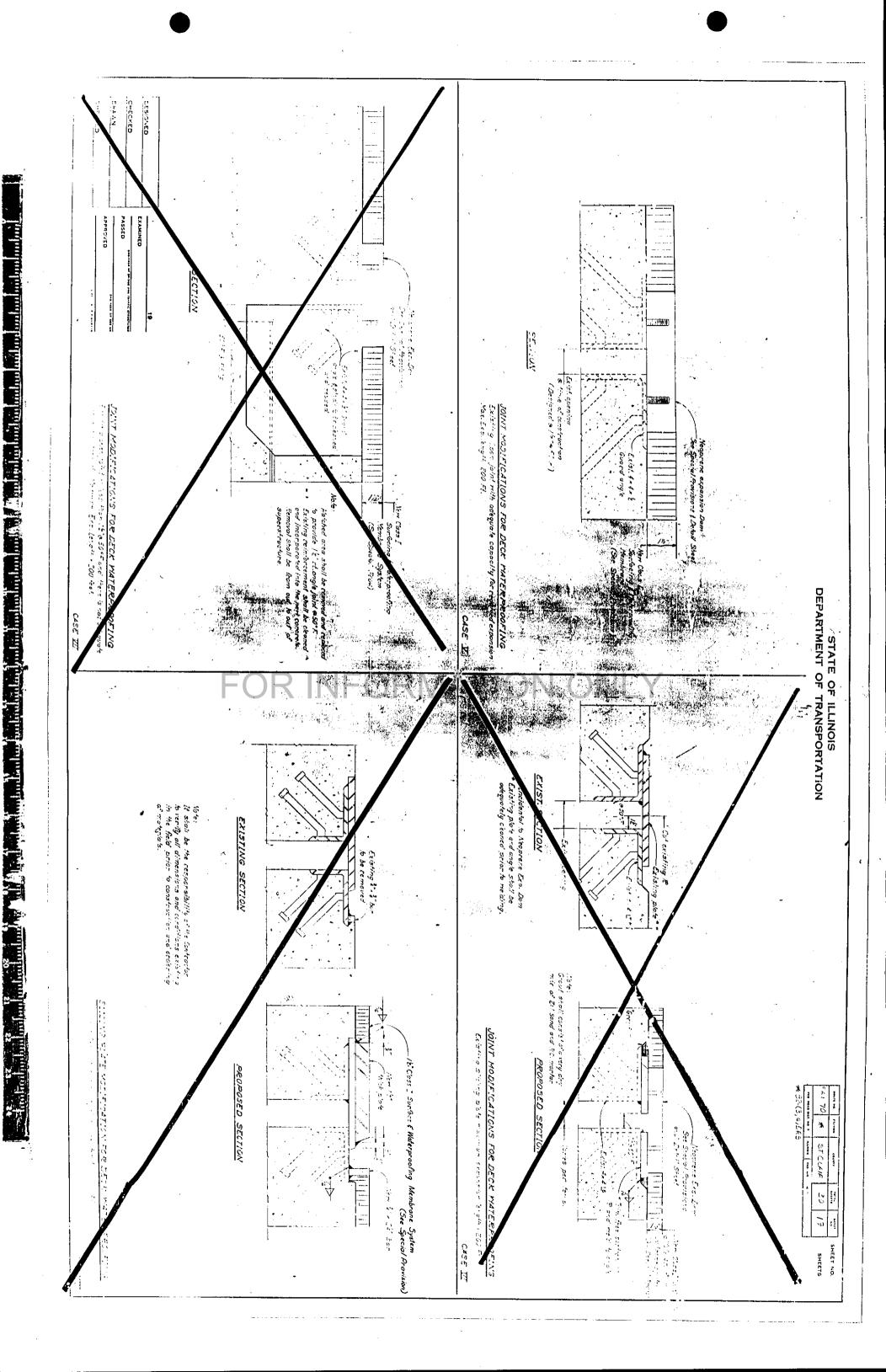
(As 84418-1

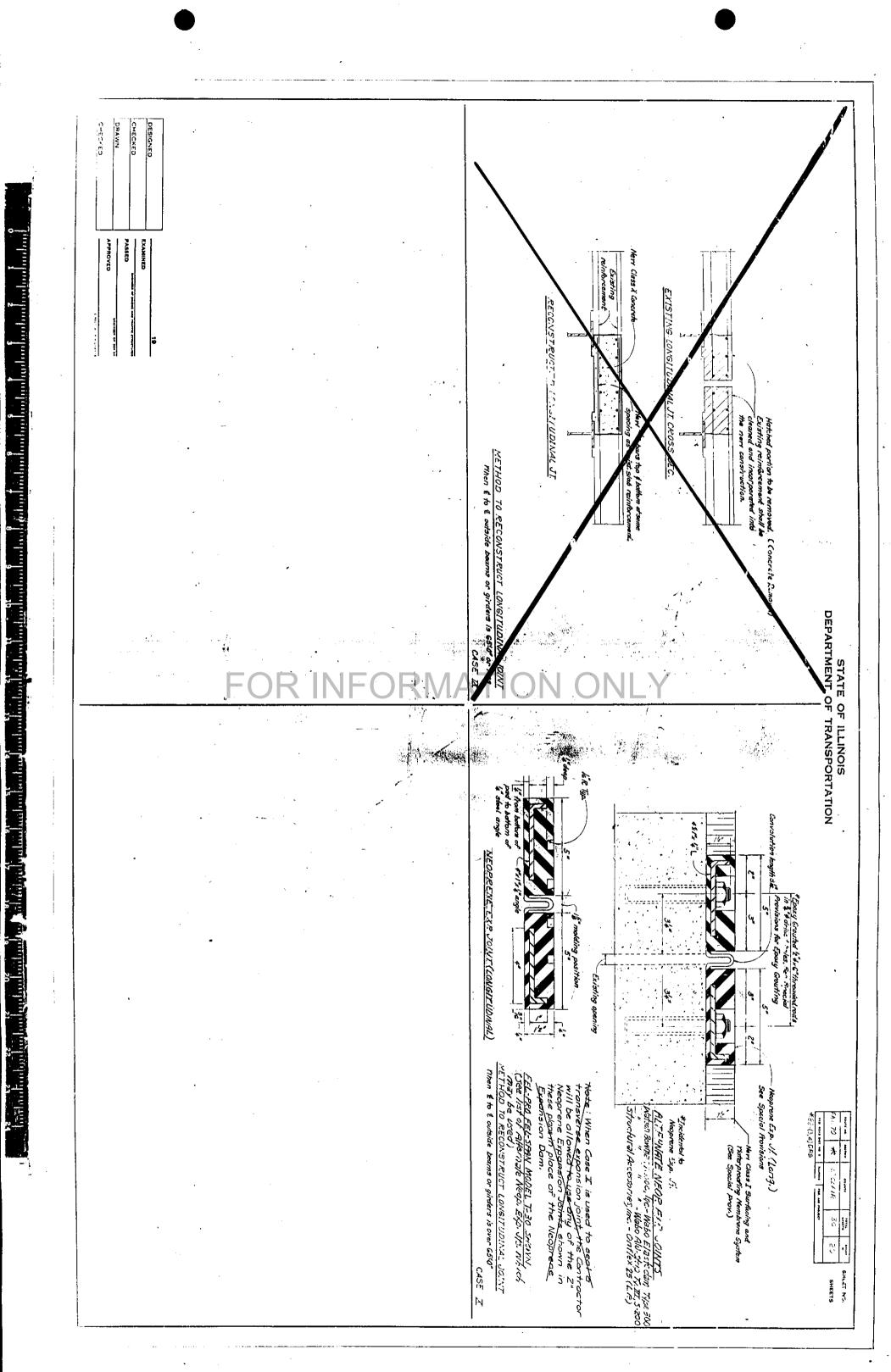
Section 82-448-1

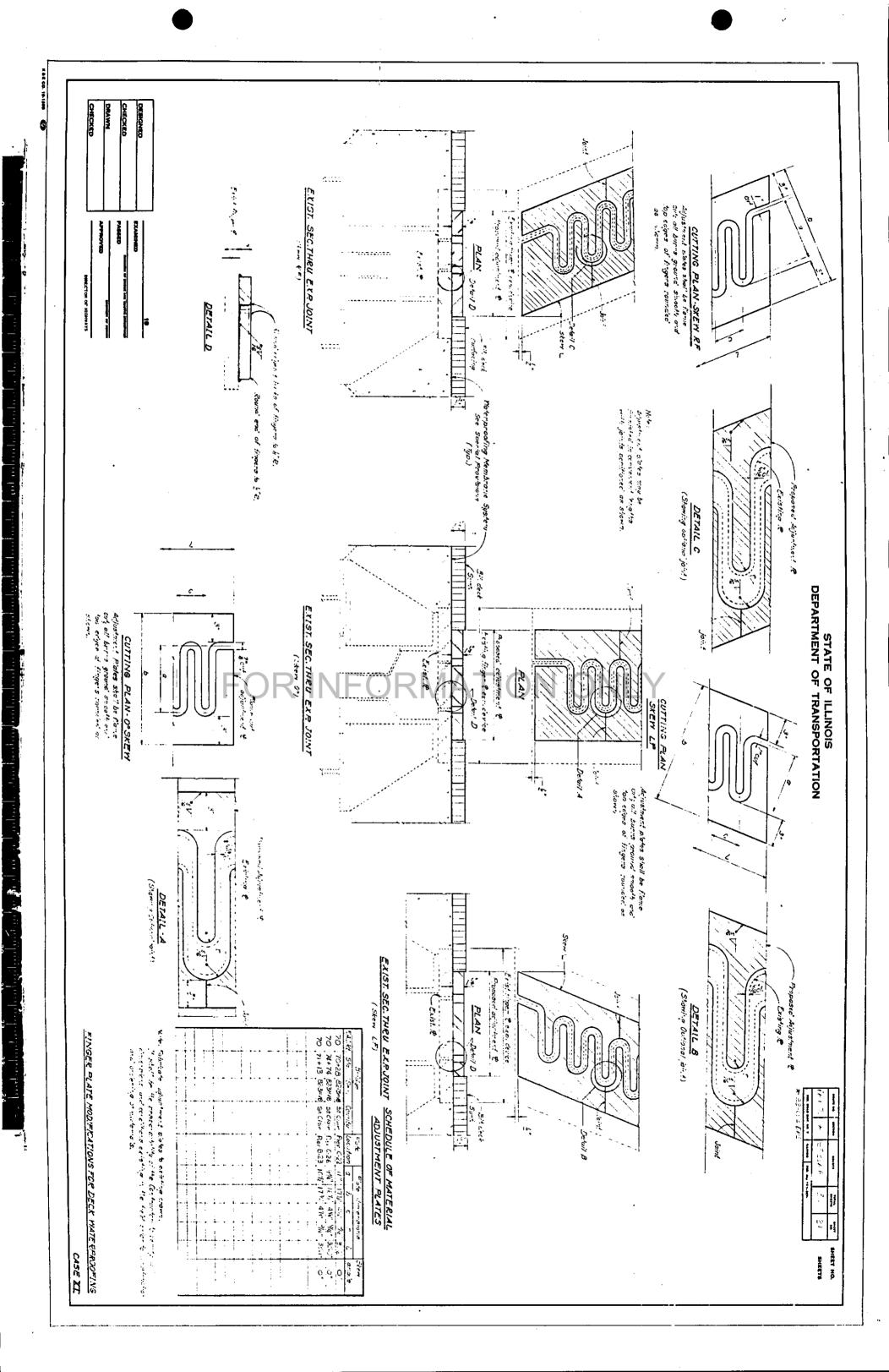
Roodway 8

No Scale



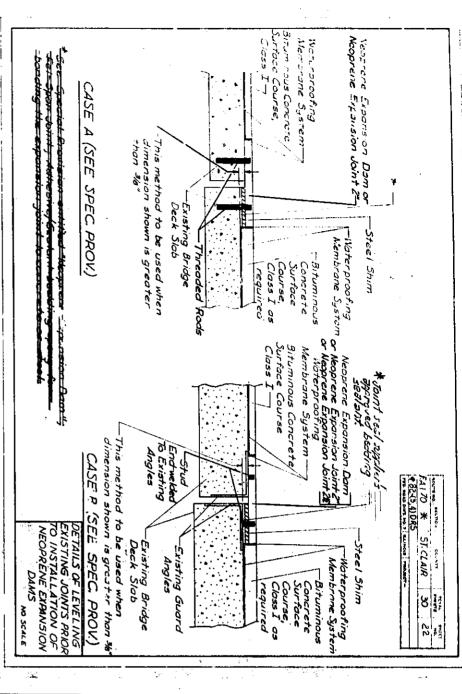






111

makini ku hiri ni n



Cut Existing Plote\*

Neoprene Expansion Langes

Neoprene Expansion Langes

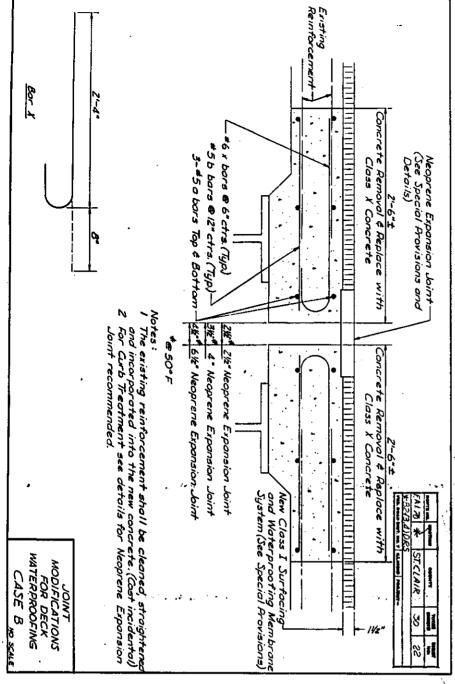
See Special Provisions &

Detail Sheet

100 × 51 C(A) × 50 22

- Existing Guard Angl

Surfacing and
Noterproofing
Membrane
System (See
Special Provisions)



#### The Contro \*Clear from existin (Cost incidental)

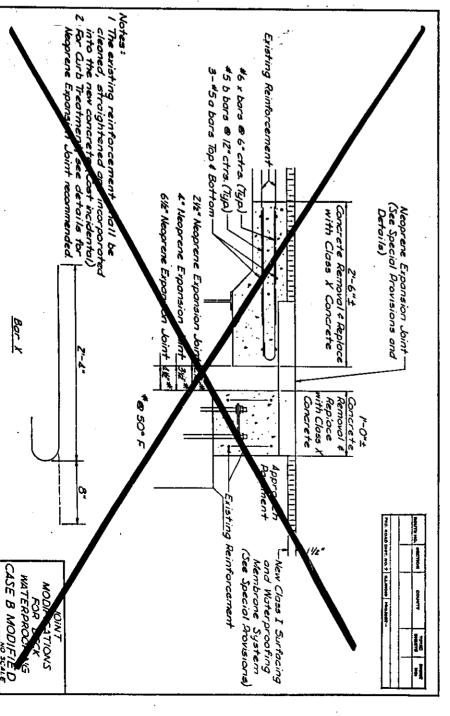
Sr shall not use Transflex 200A Meoprene Expansion Dom)

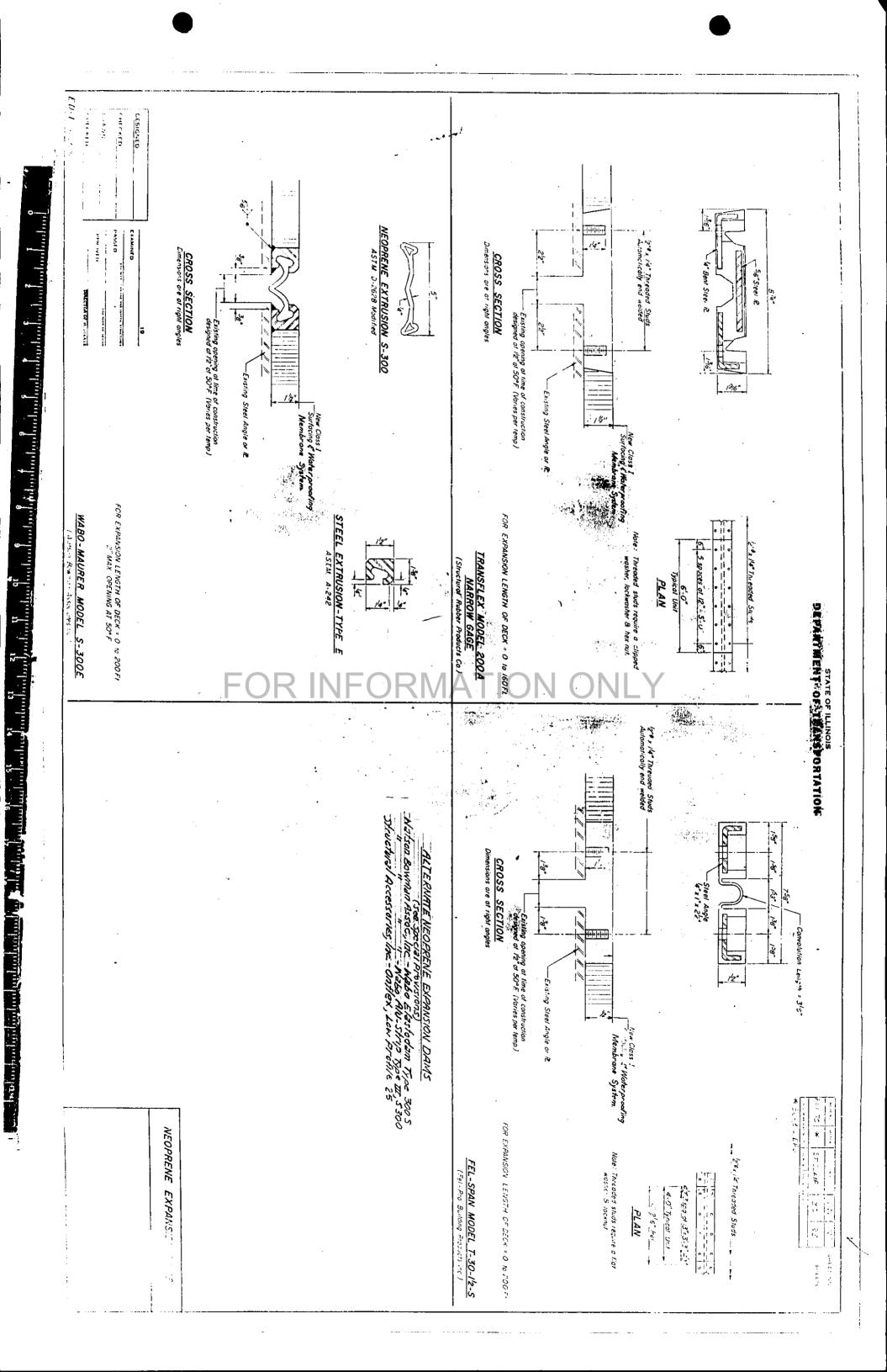
MODIFIC TI

CASE A NO SCALE

To be

\*44" Date (Existing \*44" a Bar shall anoved prior to weld of new \*44" Plate) be prid for as Furnishing and Erecting actum ( Steel, Pounds



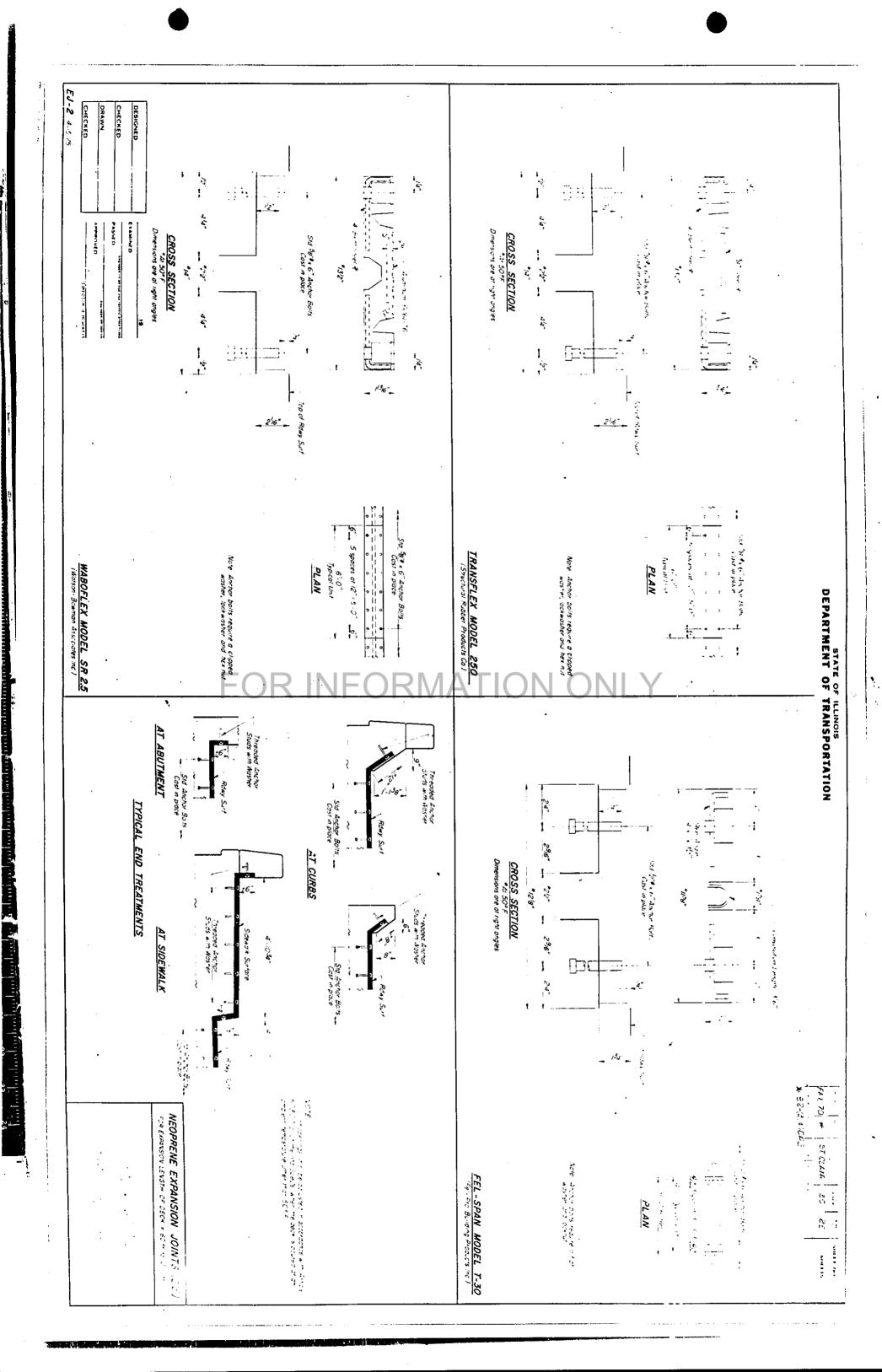


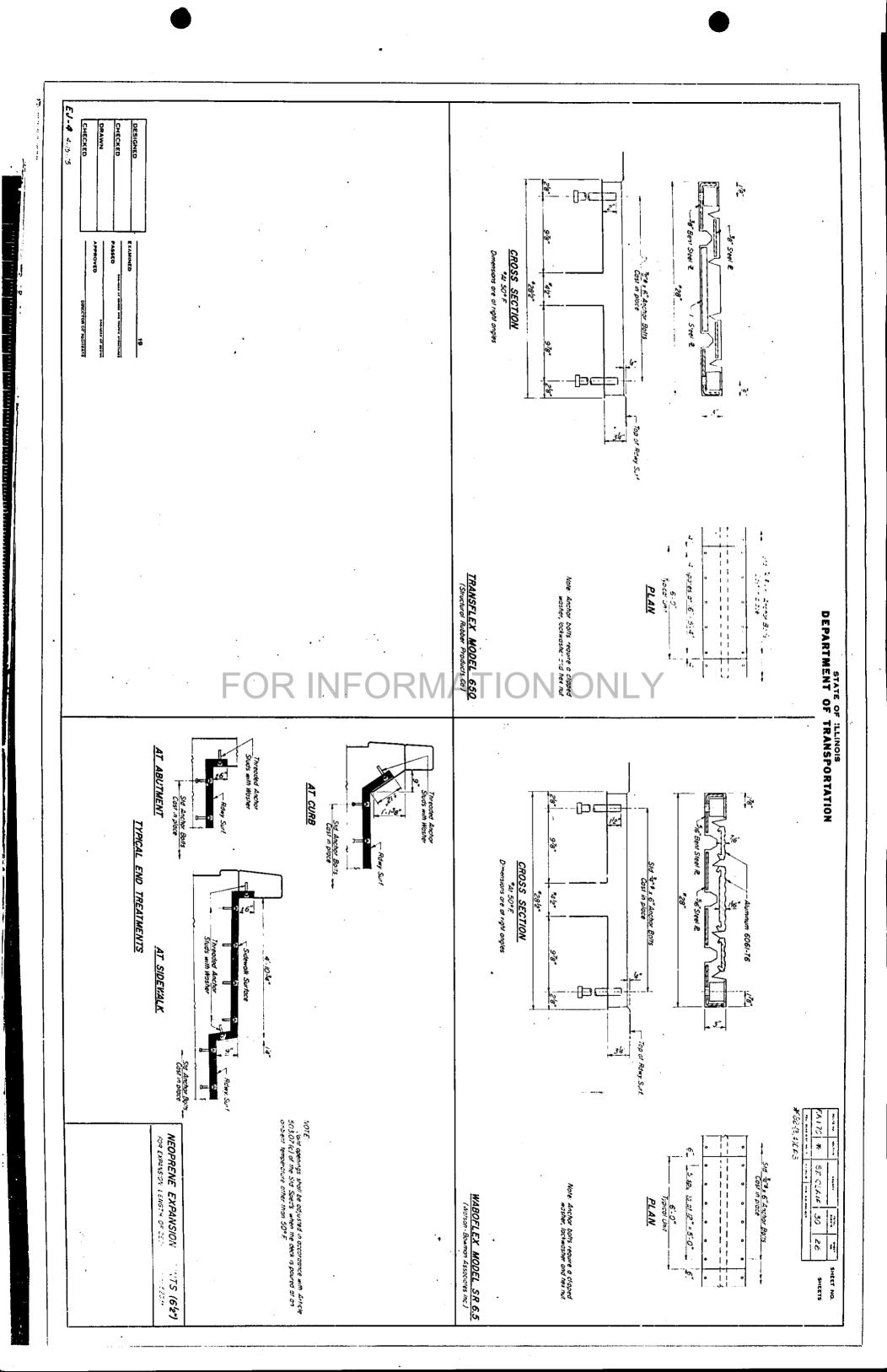
77-2 CHECKED CHECKED DESIGNED **四**目 - /47\_ 4 62 <u>CROSS SECTION</u>

Dimensions are at right angles PASSO CROSS SECTION Dimensions are at right arpts 108 @ SOF A Au Max. Saisting finger plate Existing finger plate \_ 1%-- \_ (See Special Provisions) System (See Special Prox.) to full Throaded stude MABOFLEY MODEL SR 2 C" 5 study spaces e/2's 5:0" C" Typical Unit PLAN PLAN Weisen Bownson Assoc CROSS SECTION Dimensions are a right angles to 9 x 1 to 1 Thresided state
Authorization and recipied — E finger plate openii Max. EXPANSION JOINTS SKAS) Elastedam Type 5300 (set 2\*4.50\*F.) Existing finger plate New Class I surfacing and Naterproding Minimum System
(See Special Prov.) for expansion langth of Deck + 0 to 160 ft. (Rel Pro Building Productine) Note: Threaded studs require a flut master and intent 2" 4x 16" Throaded Stude 4'0 Typical unit 4. C' 3 . 1.66

2

٠





DEPARTMENT OF TRANSPORTATION STATE OF ILLINOIS

PC-98-004-73

# PLANS FOR PROPOSED FEDERAL AID HIGHWAY

INDEX OF SHEETS ON SHEET NO. 2

SECTION 82-(3,5) DRS BRIDGE RESURFACING ST. CLAIR COUNTY FAI ROUTE 70 PROJECT 1-70-0(2)0 PC-98-004-73



AS BUILT CHANGES WERE MADE RESIDENT ENGINEER REEL NUMBER AICROFILMED\_

NET LENGTH (AS BUILT) SECTION 82-3VB = 748 FEET NET LENGTH (AS BUILT) SECTION 82-5VB= 1618.98 FEET

NET LENGTH SECTION (82-3,5) DRS

= 2366.98 FEET

LOCATION MAP SCALE | INCH = 1600FEET 0 1500 3200 4800

REVISED 1-9-7

SET 75 DEPARTMENT OF TRANSPORTATION Robert & Know DEPARTMENT OF TRANSPORTATION

LOCATION OF SECTION INDICATED THUS:-

CONTRACT NO. 30328

(62-3,5) DRS F.A. 1. ROUTE 70

SHEET NO. SHEET NO. SHEET NO. SHEET NO. 20A THRU 20U SHEET No. 63A SHEET NO. 9-20 SHEET NO. 8 SHEET NO. PLAN SHEET (AS BUILT) SECTION 82-3VB EXPANSION JOINT MODIFICATION CASES V-VII EXPANSION JOINT MODIFICATION CASES V-VII PLAN SHEET (AS BUILT) SECTION 82-5VB INDEX OF SHEETS, SUMMARY OF QUANTITIES AND GENERAL NOTES TRAFFIC CONTROL, SECTION 82-3HVB-R (FOR INFORMATION ONLY) EXPANSION JOINT MODIFICATION CASES IX-XI STANDARDS: 22: -5 TRAFFIC CONTROL FLAN SHEETS 2300-1 2316-3 2298-4 2342 2173-3

{C }\*\*\*

FAI 70 . \* ST CLAIR

118003

#### OR INFORMATION ONL

	S ICH IN A I	10	0 0 0	SHITTES	FAI 70		. S1
<b>30</b>	TTN	<b>7</b>	ALTINARO	PROJECT 1-70-0(2)0	70-0(2)0	* 82	# 82 - (3,5) DRS STATE
•	LOCATION OF WORK			AS BUILT SEC. \$2+3VB	AS BUILT SEC. 82-5VB	SVB	AS BUILT SEC. 82-3VB
	CONSTRUCTION TYPE CADE 1407						
X64701	PAVEMENT LARKING TAPE	דוא נג	592	158	404	Ā	
406001	BITUMINOUS MATERIAL (PRIME COAT)	CATTON	151	60.2		90,8	0,8
2010X 20201Z 80201Z	OECK SLAB REPAIR (1" 10 212" DEDTH) SO YOS CECK SLAB FULL (SPTH REMOVAL I REPLACEMENT SO YOS KEOPRENE ERRANSION DAN	SQ (SC) SQ (SC)	2,630 /5.2 242			242	176.0 C.7
-	ASBESTOS-ASPHALT MEMBRANE PAVEMENT	TOS:	<b>cs</b>	(s)			
X04569	EMILSTFIED ASPHALT PRINE, SPECIAL	CALLON	12	. 12			
105250	PREFORMED JOINT SEALER 1 3/4"	LIN FT	15			ĕ	3
XZ 1106	PREFORMED JOINT SEALER 2 1/2"	LIN FT	=			=	=
507001	FURNISH AND ERECT STRUCTURAL STEEL	POUNDS	47, 311	14,069		33,242	,242
612250	INLETS TO BE ADJUSTED	EACH	អ	•			
646002	ENGINEER FIELD OFFICE, TYPE B	EACH				s)r	
X05251	DELAMINATION DETECTOR	T SUM	-				A.F
	ALTERNATE A						
E1904X	BITUMINOUS CONCRETE SURFACE COURSE, CLASS I,	XOI	1,704	909		1,098	1,098
X04941	WATERPROOFING MEMBRANE SYSTEM 1	Sal les	28,669	10,147		18,522	9,522
X05386	TRAFFIC CONTROL (SECTION 82-3 D/S) TRAFFIC CONTROL (SECTION 82-5 D/S) ALTERNATE B	L SUN		,,,		<b>.</b>	, <b>, .</b>
X#06/3	BITUMINOUS CONCRETE SURFACE COURSE, CLASS I,	NO1	2,507	690		1,617	1,617
X04941	WATERPROOFING MEMBRANE SYSTEM 2	SQ YDS	28,669	10,147	. <b>.</b> .	18,522	3,522
205305 205305	TRAFFIC CONTROL (SECTION 82-3DAS) TRAFFIC CONTROL (SECTION 82-5DAS)	MINS T	<b></b>	٠. بو	į	<b>.</b>	<b></b>

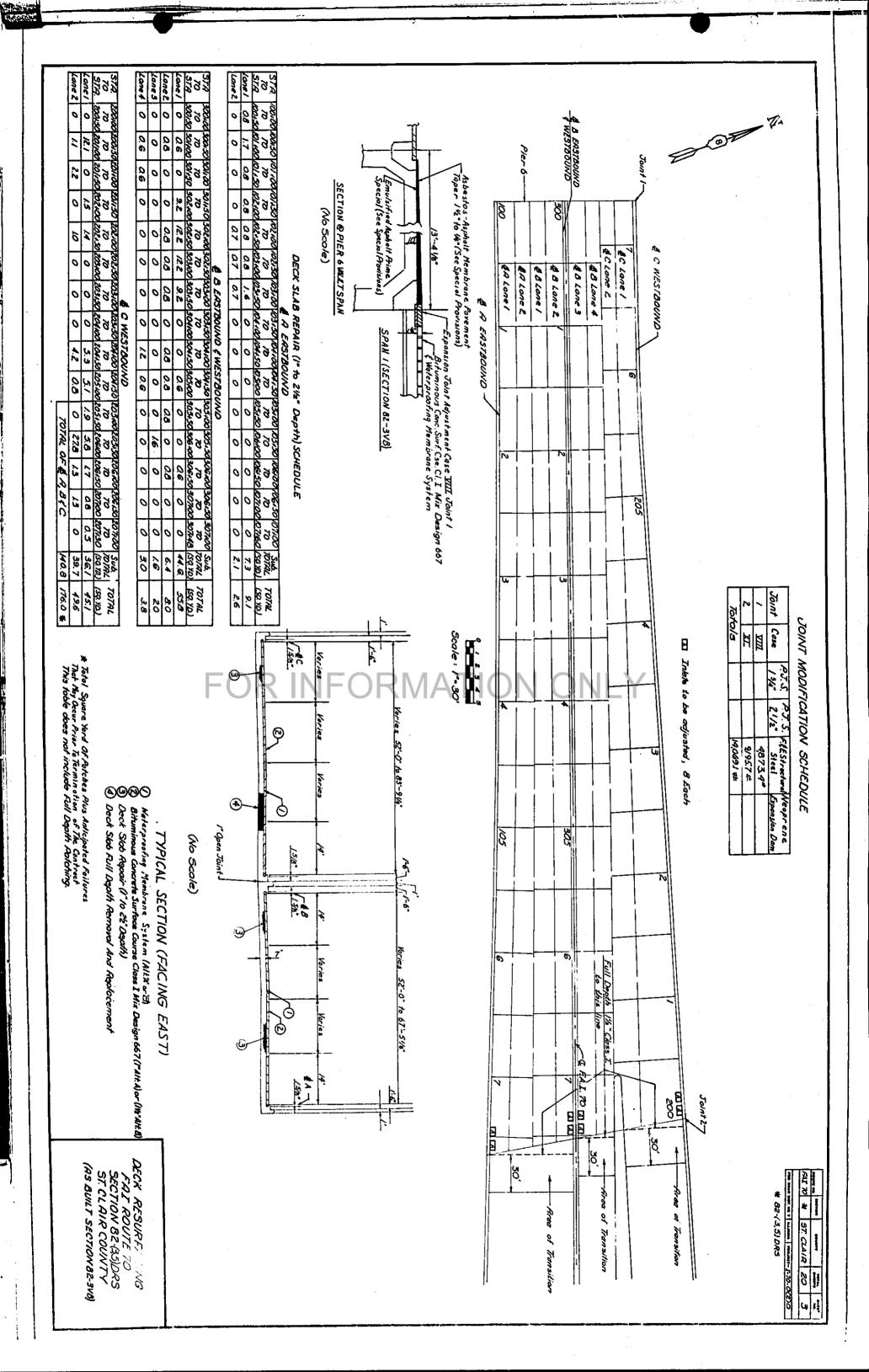
#### GENERAL MOTES

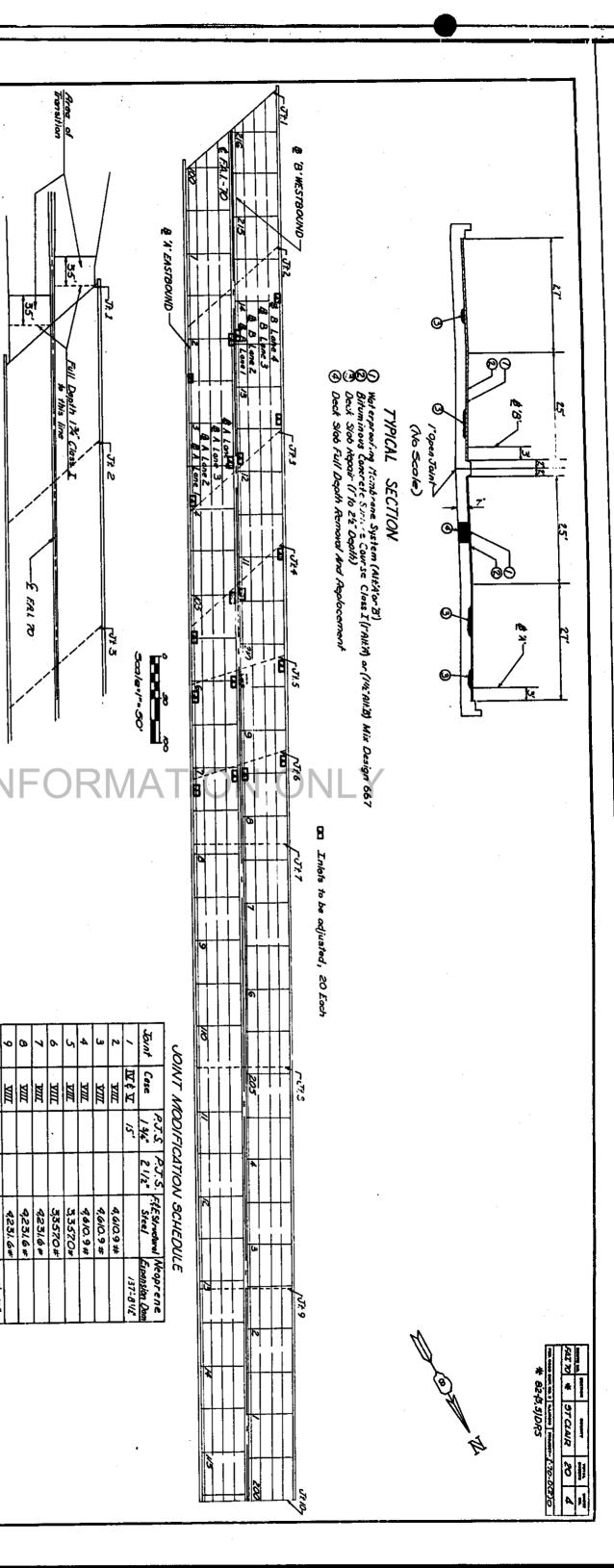
THE STANDARDS WITH THE REVISION NUMBERS LISTED IN THE INDEX OF SHEETS INCLUDED IN THE PLANS SHALL HOLD PRECEDENCE OVER STANDARD NUMBERS LISTED IN THE SPECIAL PROVISIONS OR PLANS OF THIS CONTRACT.

THE COMBINED DEPTH OF SURFACE COURSE AND THE WATERPROOFING MEXBRANE SYSTEM IS 13," THROUGH-OUT THIS PROJECT EXCEPT AT THE MEDPRENE EXPANSION DAYS. THE COMBINED DEPTH AT THE MEDPENNE EXPANSION DAYS IS 1 3/4". THE 1 1/4" SHAULD BE TRANSITIONED MACK TO 1 11/2" IN 5' 0N THE EXPANSION DAYS IS 1 3/4" SHAULD BE TRANSITIONED MACK TO 1 17/2" IN 5' 0N THE EXPANSION DAYS IS 1 3/4" SHAULD BE TAXABETHOUS AT THE BATE OF I" IN 20'. WHETHER TRANSITIONING FROM 1 1/2" ON 1 3/4" SHAULD BE ACCOMPLISHED AT THE BATE OF I" IN 20'.

THE APORDERVIONED STATEMENT DOES WOT HOLD TRUE FOR THE APPROACH AREAS OF BRIDGES WITH SKEWED ADMINENTS. AT THESE LOCATIONS TRANSITIONING SHOULD BE ACCOMPLISHED IN THE MANNER SHOWN ON THE PLANS.

BITUMBNOUS MATERIAL (PRIME COAT) SHALL BE USED ON ALL BRIDGE APPROACH PAVEMENT TRANSITION AREAS EXCEPT AT THE LOCATION WHERE THE DMALSFIED ASPHALT PRIME, SPECIAL IS REQUIRED.





DECK SLAB REPAIR (1" to 21/2" Depth) SCHEDULE

7.

33,2415# 241'-64°

3,3570#

9,231.6#

9,231.6#

4231.6#

9,610.9#

3,3570\*

Transitioning Detail

Q 184 3

-	_	_	_				_	_	_	_	_		•
	1000		1	7 June 7		1000	٠I		ò		- 1		
֓֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	0.32	1		×	:	7.9	,	Ş	ò	3	2,661		
	25.3	,	767	201	:	41.1		20150	,	Š	2000		
ľ	25.3	1	1267	33.3		41.1	,,,	01100	,	Š	1000		
	<u> </u>		76	200	,	20.2	3 3	70/50		3	20101		
ŀ	3.6		23.4	30.0	3	67.6	300	10/20/	,	Š	101.5		
ŀ	7.2		16.7	10.1	1 / 2 3		20	2612010		ž	יסיביסי		
ŀ	6		<u>`</u>	1	3	1 20.	200	10000	<u>.</u>	É	212012		
ŀ	<del>.</del> 2.		20.0	1				01030	<u>.</u>	Š	01030		
ŀ	22.0 25.3 25.3 14.4 3.6 7.2 10.8 7.2 0.0	ļ	267 267 267 267 23.3 16.7 16.7 20.0 2.0	9.	. 7	1 40.0	200	Jorg	<u>.</u>	Ì	13.0 d ocean not so to		
	90		0	5	2	9	•	10000	3	Š	0000		
ŀ		1		ı	<u>3</u>	:	•	10000	<u> </u>	6	Ser May Co		
	00	t	00	<u> </u>	\ <u>\</u>	, ,	<u> </u>	7	200	8	orcord		
	0.0 0.0 0.7	1	00 23.3	Ì	<u> </u>	,	~	10000	3	6	0,0515		
				П	6.7	1	20	West	3	9	O rocio	2	
	0.0	+	6.7 0.7		7 /3	\ ;			2000	6	Crock		
	0.0	I	100	ı,	16.	ľ	<u> </u>		2077	ŏ	10110		
	0.0		0.0	П	7.3	1	2			ò	2010		'A' EASTBOUND
	0.0	•	6.7			ľ	20.		0000	0	non	W. W. W.	0000
	1 00		10.0		3.3 267 10.0		25.		0000	ò	1000	2000	
	00	1	0.0		100		30.0	ĺ	21600	ò	, and	1000	
	200	1	l.	J	6		<u>``</u>		00.00	ò	2	1000	
	20	,	6/		67 /3.3		· /0./		110150	ò	7	Jordan	
	5	3	::		0.0	;	2.0		1111100	ò	3	100.50	
		2	10.0	661	3.3		20.0	-	111130		ž	000	
	ı	3		`*		,6	0.1	•	116 400	,	Ė	051111	
		00	1	\ \ \	50	20	100	*	1111111		8	00/2/1/	
		00	1	/3 /2	Ş	2	1	- /> 5	More Con		B	12150	
		00	1	6.7	ļ	*		, ×	11000	///	ğ	113100	
	1	000	1	00	Į.			167	17.6		8	13.50	
	- 1	200	П	0.7		1000		150	1	1115	8	14400	
				9.2		0.7	ŀ	1		150	8	VIALSO	
		20 00		<u> </u>		0.7		8.3		1/5/50	10 10 10 10 10 10 10 10 10 10 10 10 10 1	1000	
		2		0.5		0.0		2		115:67	8	1000	
		110.0		7801		1006		376.7		100 100	7H 10	200	1
		190.0	126	33/0		375.1		(41.1	-	(50.72)	1012	7774	
		L		L		L				L	_	_	

Tatal Square Yard Of Patches Plus Chat May Occur Prior To Terminat This totale does not include Full U DIAL OF B 1.2 200 00 215:00 215:00 25:00 Sub. 107AL

00 215:50 216:00 26:51 (93.10) (92.10)

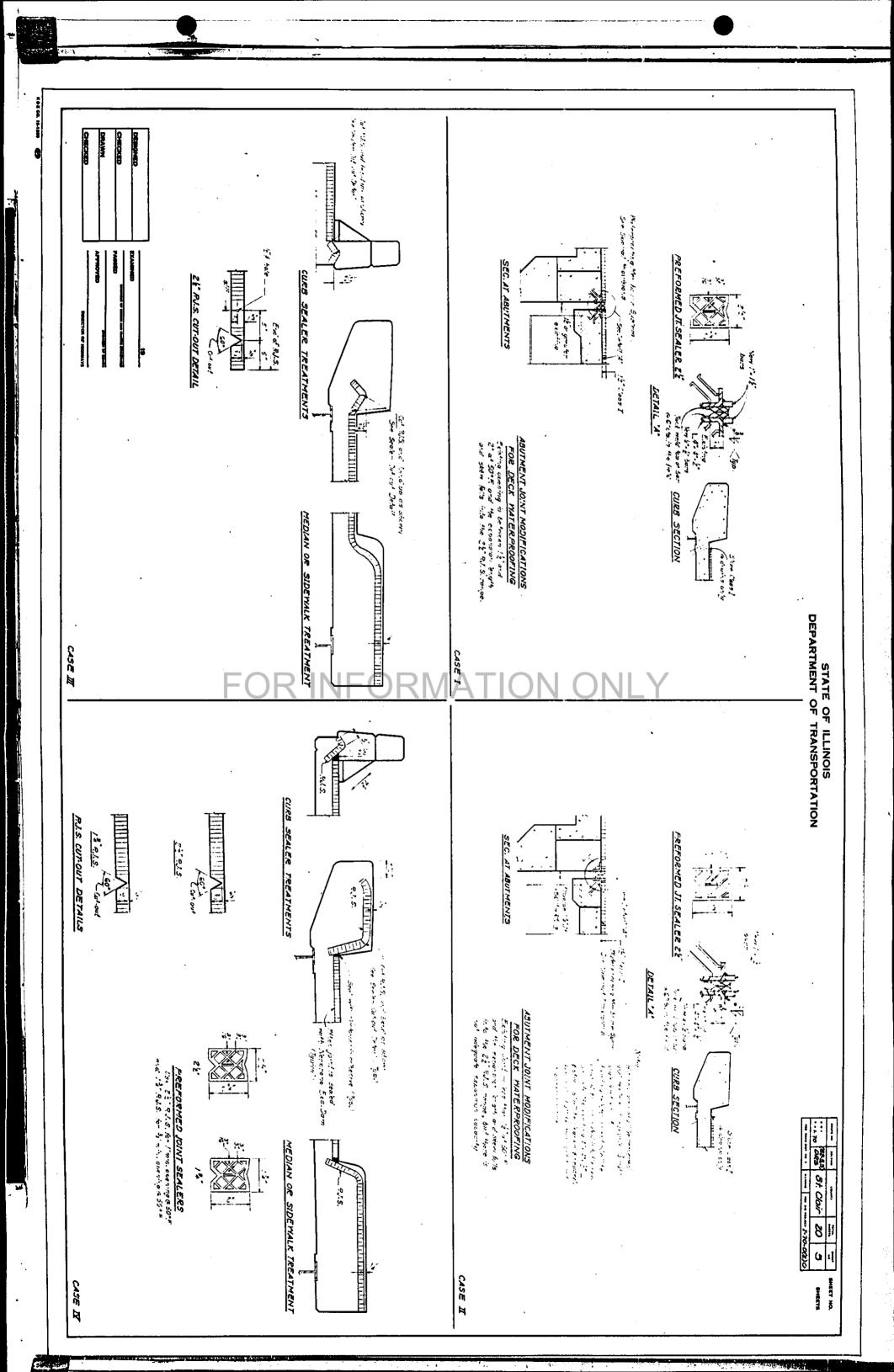
00 3.6 0.7 (0.7 (33.5 (66.9)

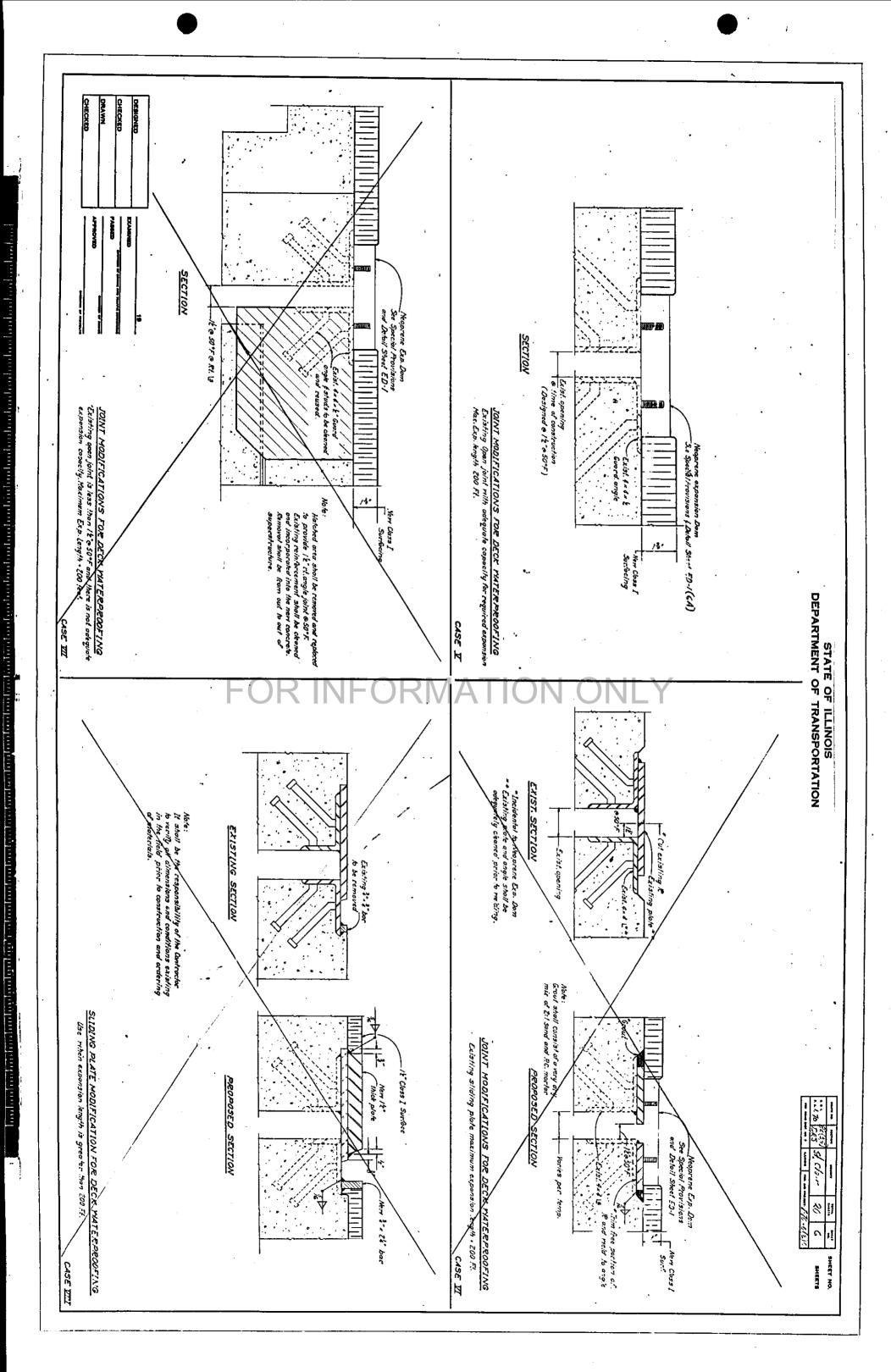
00 3.3 0.7 8.3 (97.6 247.0)

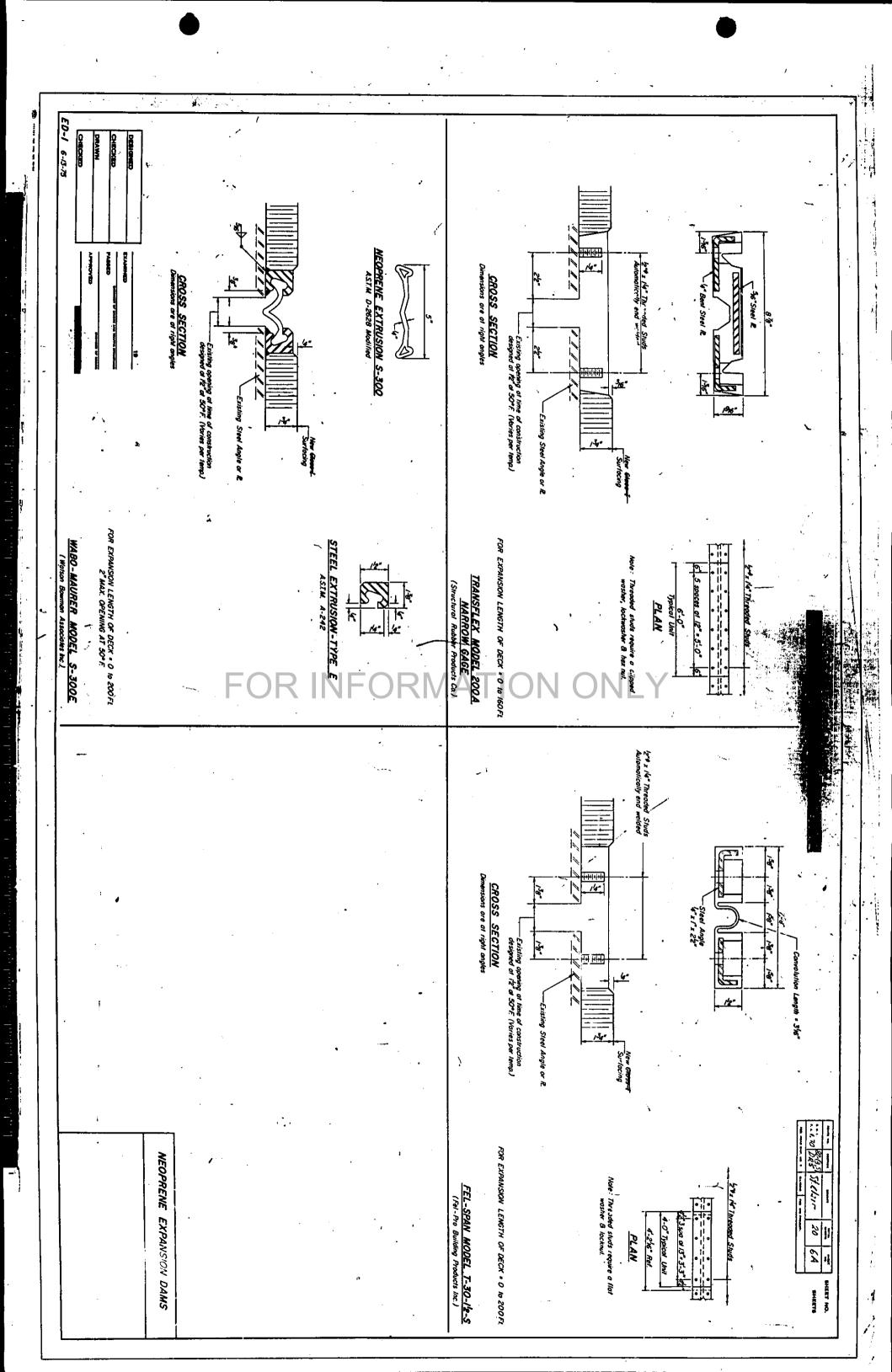
00 0.7 0.7 7.4 (39.2 (74.0)

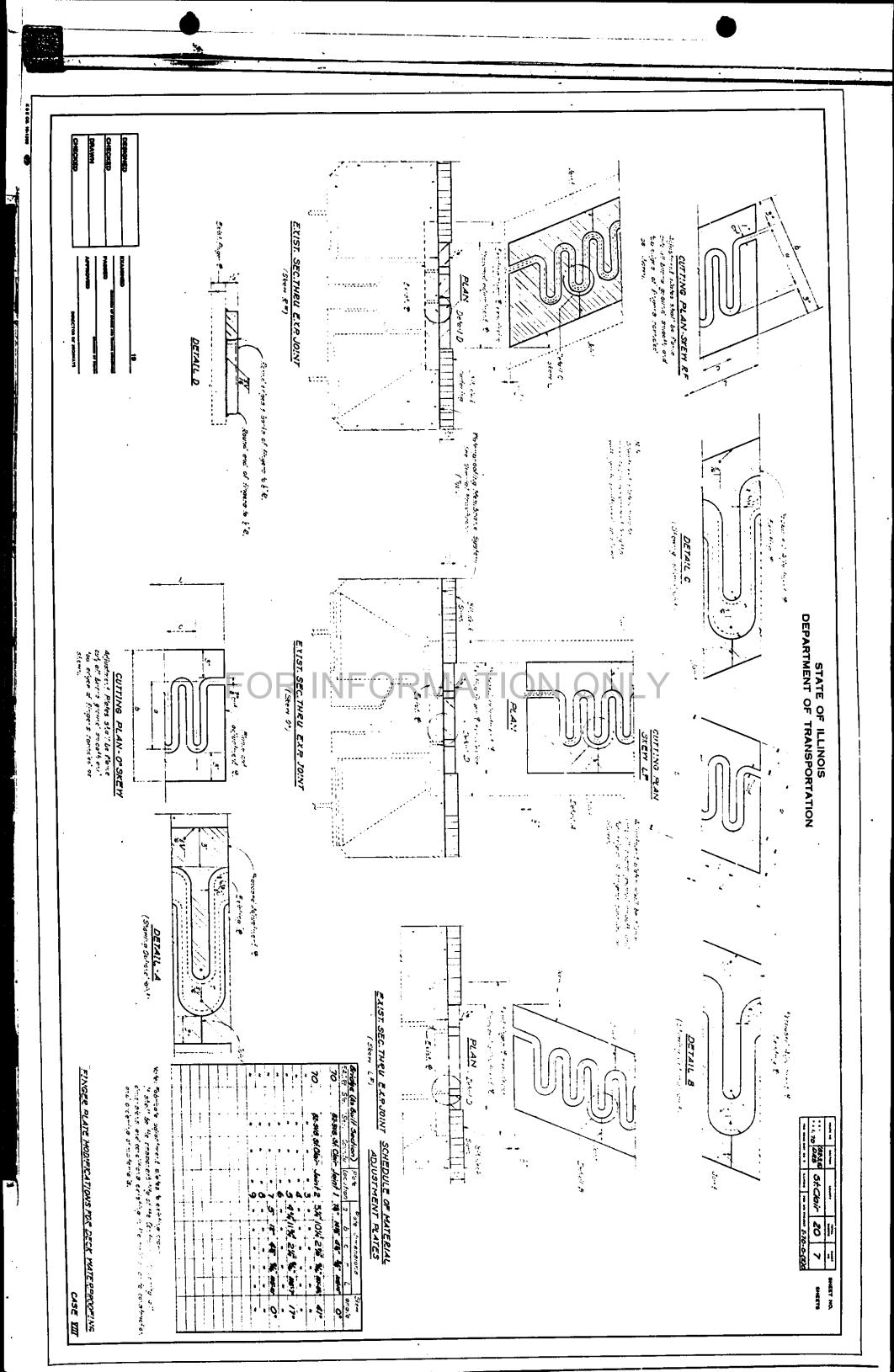
00 0.7 0.7 7.4 (196.9 246.0) shoricipated Failures
ofton of The Contract
Coolin Policina 168 962.7 2,453.3 \*

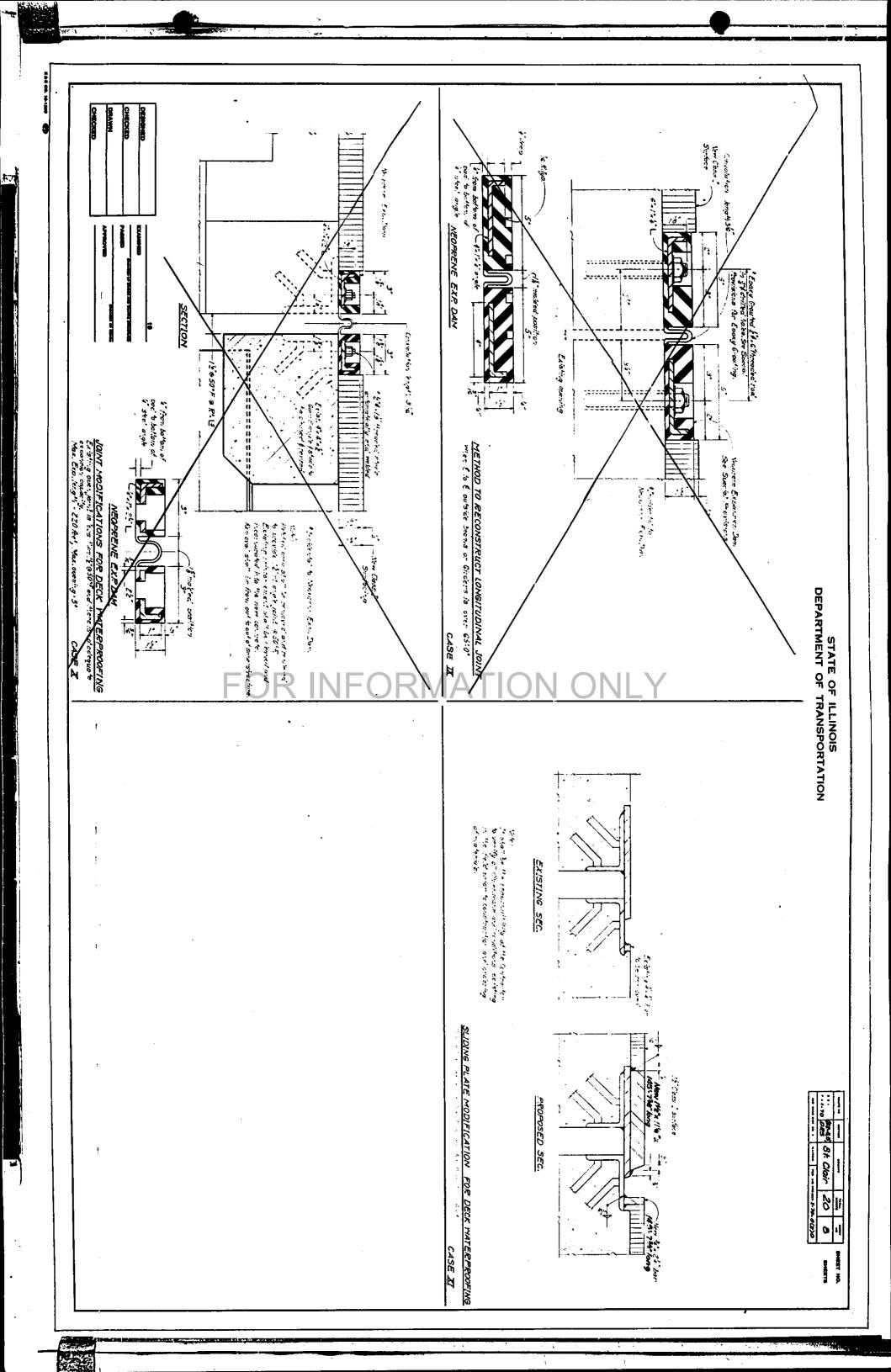
> DECK RESURFACING
> FAI ROUTE TO
> SECTION 82-1351DAS
> ST. CLAIR COUNTY US BUILT SECTION 82-5VB)











St. Clair Co.

DEPARTMENT OF TRANSPORTATION STATE OF ILLINOIS

#### FEDERAL AID HIGHWAY PLANS FOR PROPOSED

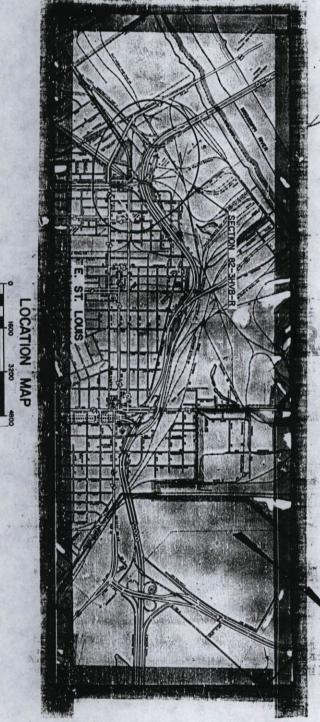
FOR INDEX OF SHEETS SEE SHEET NO. 2

SECTION 82-3HVB-R FAI. ROUTE 70

00

ST. CLAIR COUNTY BRIDGE REPAIRS C-98-003-75

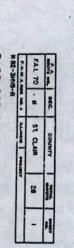
500- 180

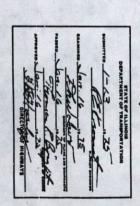


AS BUILT CHANGES WERE MADE ON THE FOLLOWING SHEETS

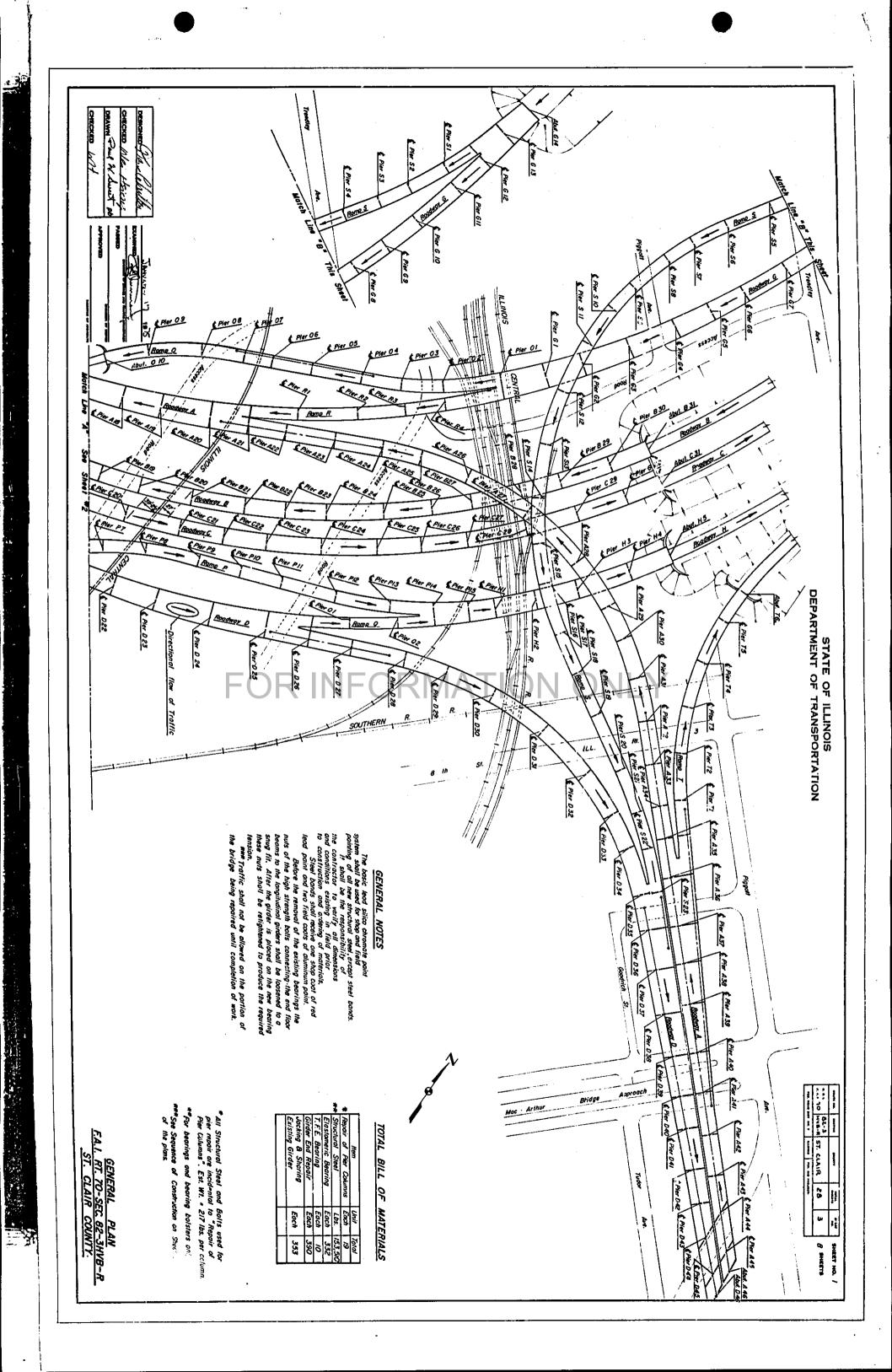
CONTRACT NO. 30450

REVISED SET 2-25-75





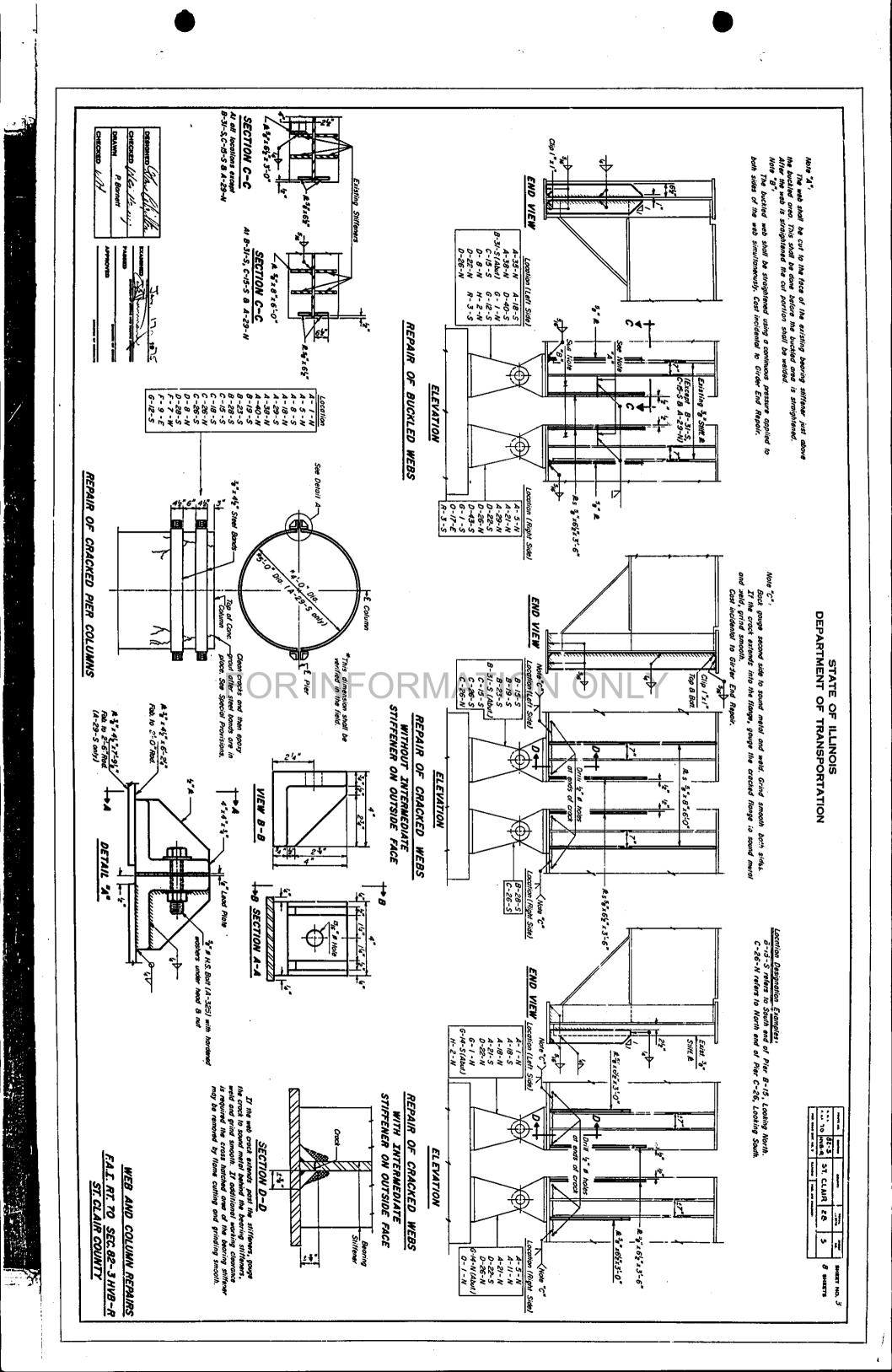
LOCATION OF SECTION INDICATED THUS:-



CHECKED W71 DRAWN French H. Sweet CHECKED MID. 15:0 C PH O \$ Pier 02 C Fier D3 APPROACH TO MOC ARTHUR ERIDGE Pier DE C Pier 07 BEARING STIFFENER AT JACKING POINT

Locate jacking point as close to bearing as passable "Use 3"x 18"x 1"-6" A when loading > 80 T. ( Fer 09 C PIET DID Pier DII STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION Fier Alt Varies from 60" to 84" C Pier DIA FAN N3 & Pier DIS JACKING LOAD (For Dead Load Only)

n Loading Remarks \$ pier NA 867. Except A-1-W=136T. 65T. Except BC-1-W=95T., B-28-W=95T. B H-2-W=100T. 65T. Except BC-1-W=77T. 80T. Except D-26-W=100T. B D-36-E=85T 70T. Except E-2-S=90T. & Pier CIT A-I, West Bearing, Both Girders. \$ Pier CIB X Spie CE E Pier M3 R Pier DIB ( Pier 013 E FIN MI Pier 014 E Pler P.S Pier P4 C Pier 020



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

27. 70 H18-8 57. 24.419 2 5.4

SHEET NO. 3.4

South end of Pier C-22, Looking North.
South end of Pier D-26, Looking South.

C-22-S refers to Sc D-26-N refers to N

Note "C"

4

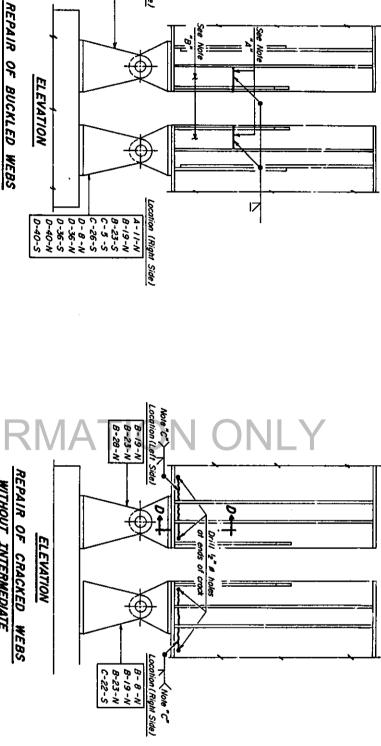
The buckled web shall be straightened using a continuous pressure applied to both sides of the web simultaneously.

Note "4":

The web shall be cut to the face of the existing bearing stiffener just above the buckled area. This shall be done before the buckled area is straightened. After the web is straightened the cut portion shall be welded.

Note "8":

Bock gouge second side to sound metal and weld. Grind smooth both sides. If the crack extends into the flance, gouge the cracked flange to sound metal and weld, grind smooth.



Location (Right Side)

A-18-N

D-8-N

D-40-N

F-4-E

F-10-E

G-1-S

**\*** 

at ends of crack

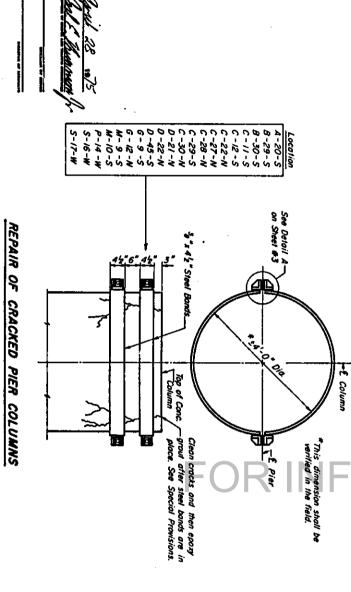
Location (Left Side)

WITHOUT INTERMEDIATE STIFFENER ON OUTSIDE FACE

For Section D-D See Sheet \*

REPAIR OF CRACKED WEBS
WITH INTERMEDIATE
STIFFENER ON OUTSIDE FACE

EL EVATION

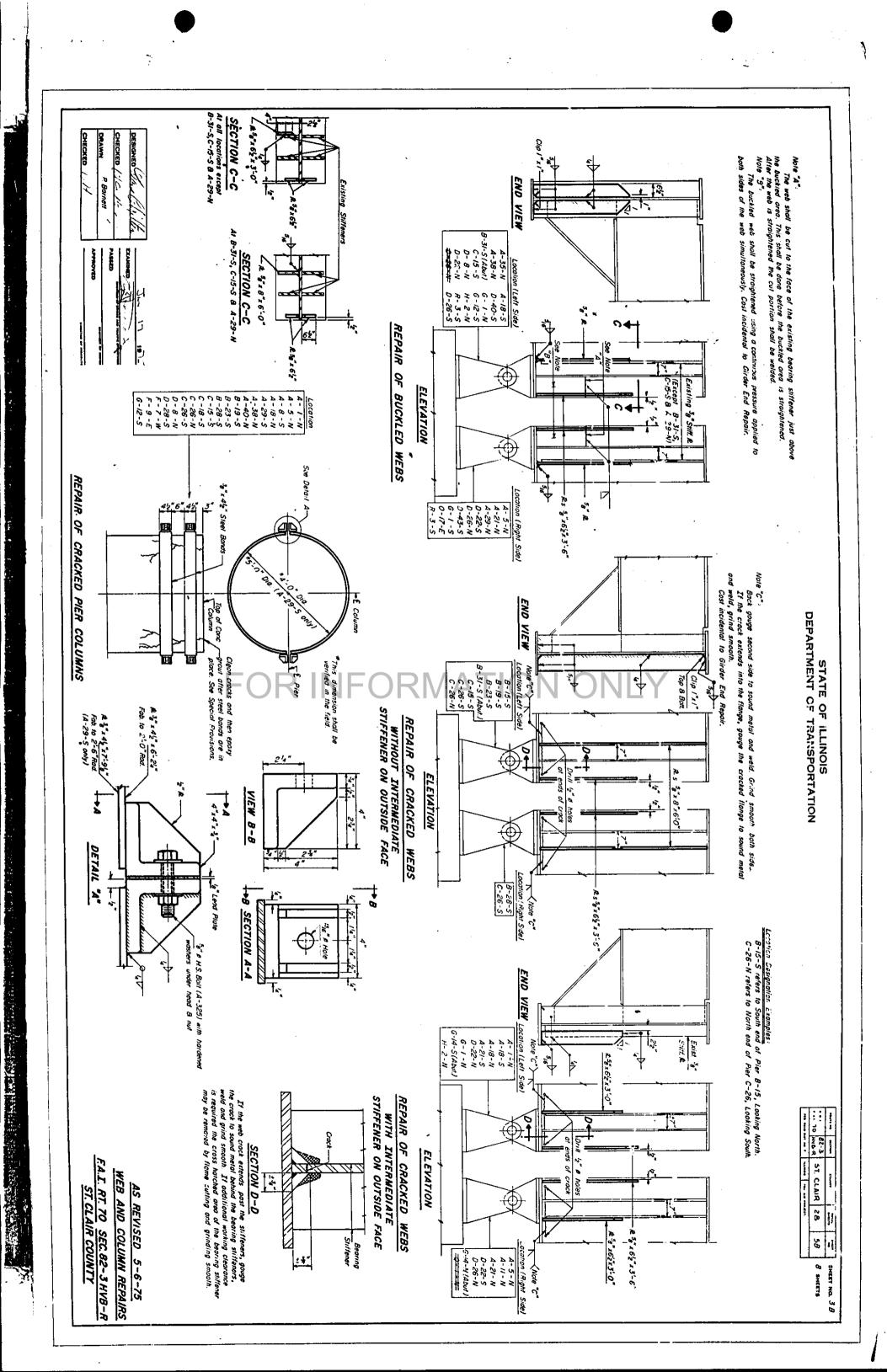


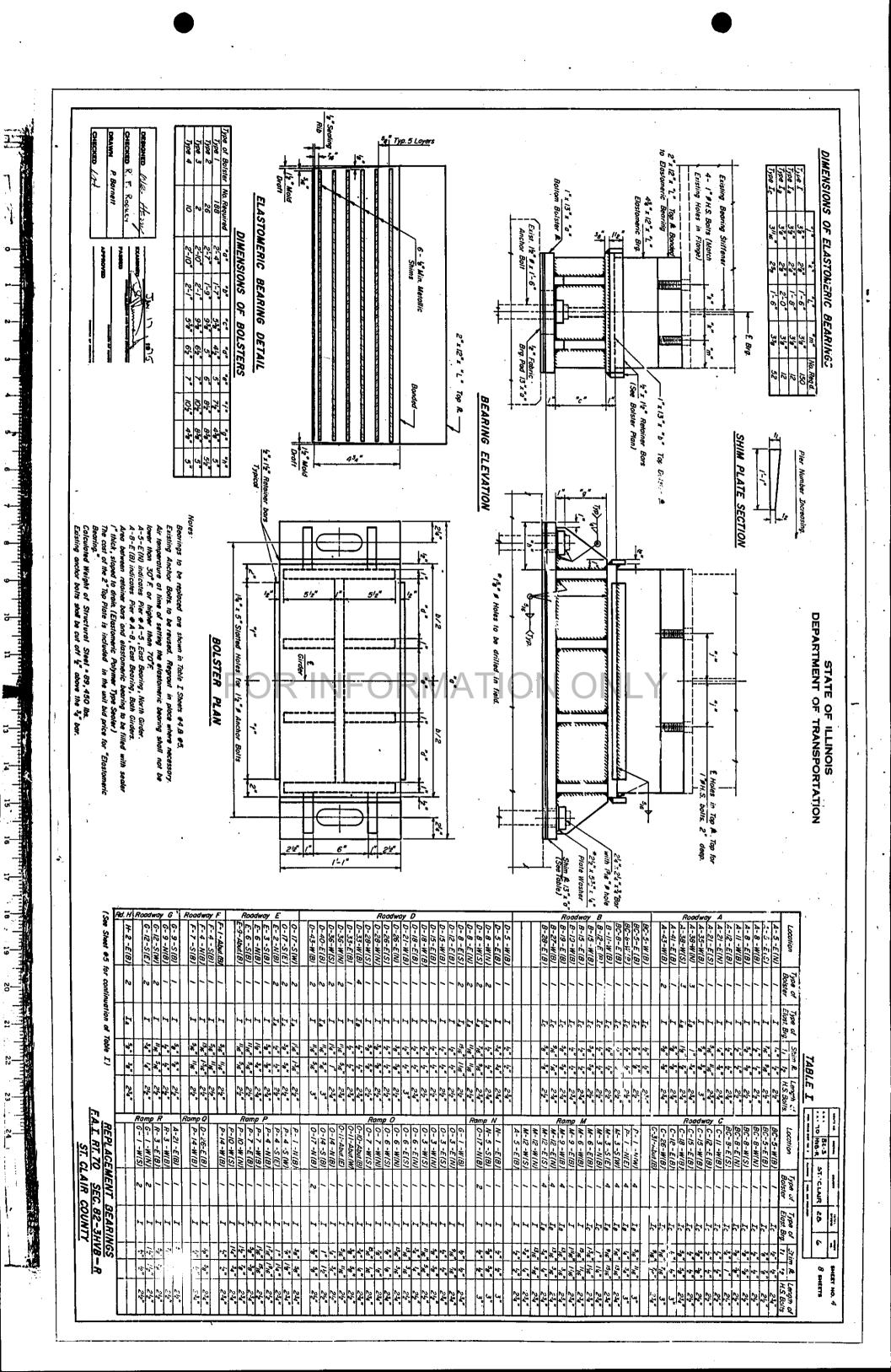
DRAWN P. Barnett

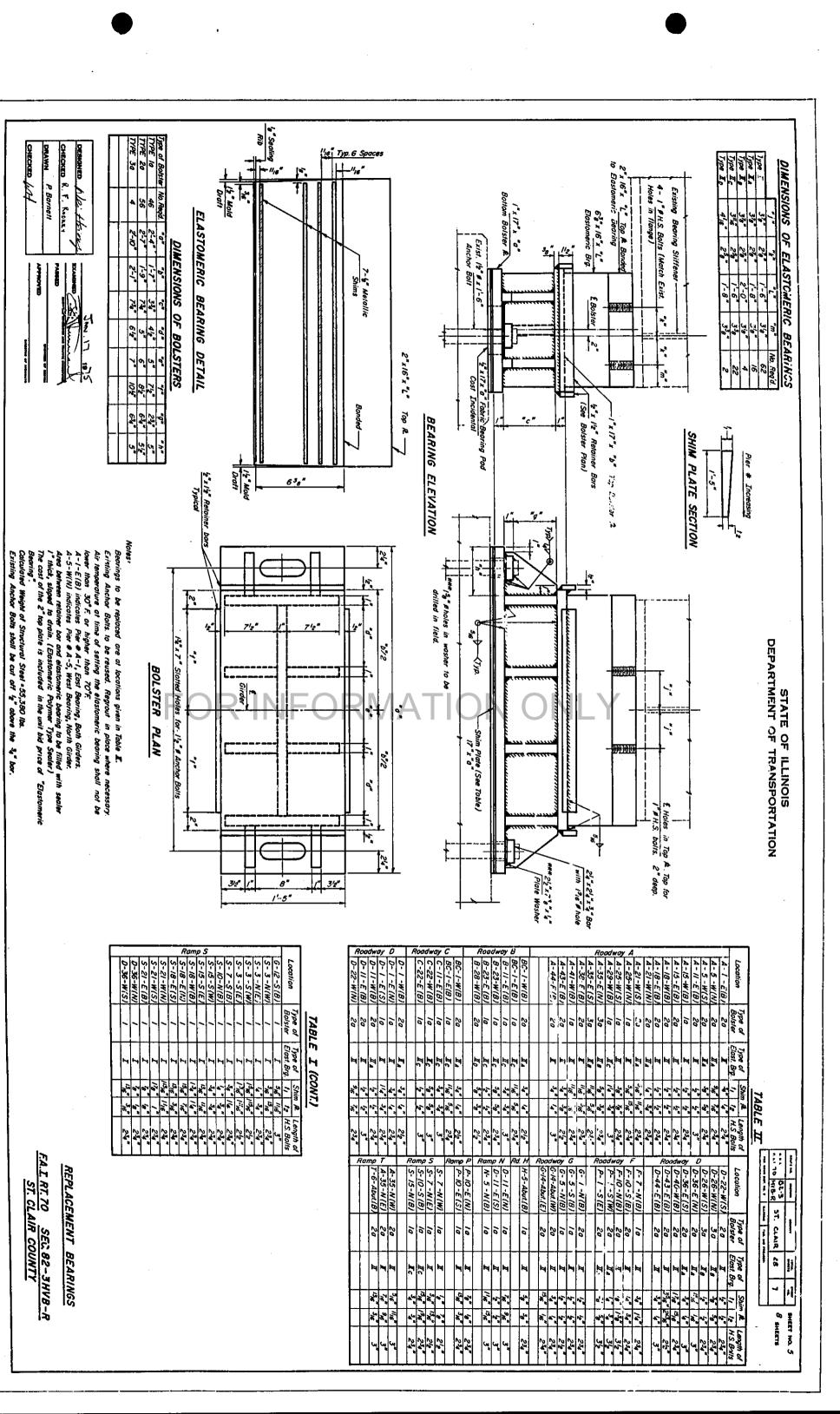
SW. 44 79 W GANDISO

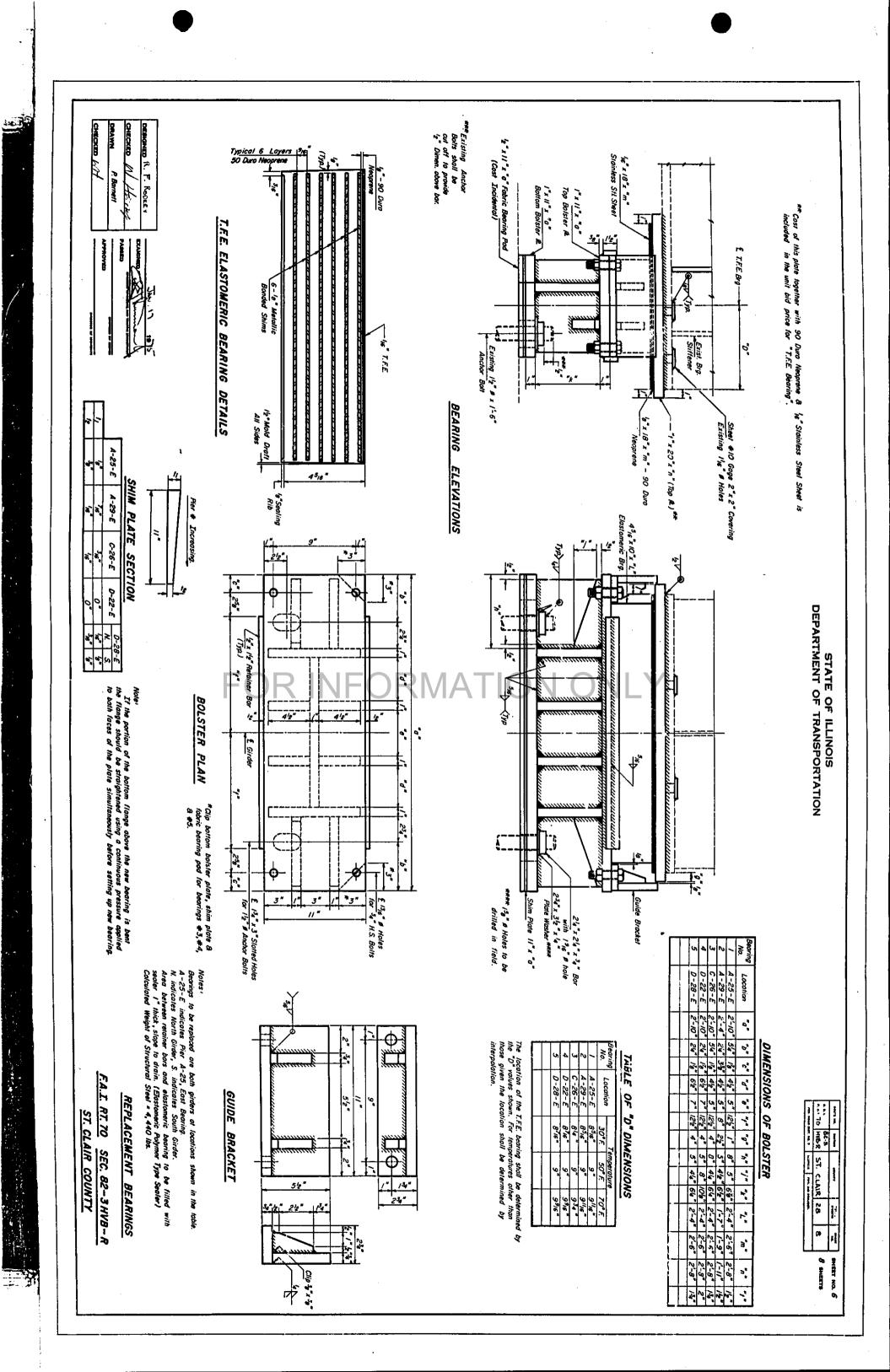
F.A.I. RT. 70 SEC 82-3 HVB-R ST. CLAIR COUNTY MEB AND COLUMN REPAIRS

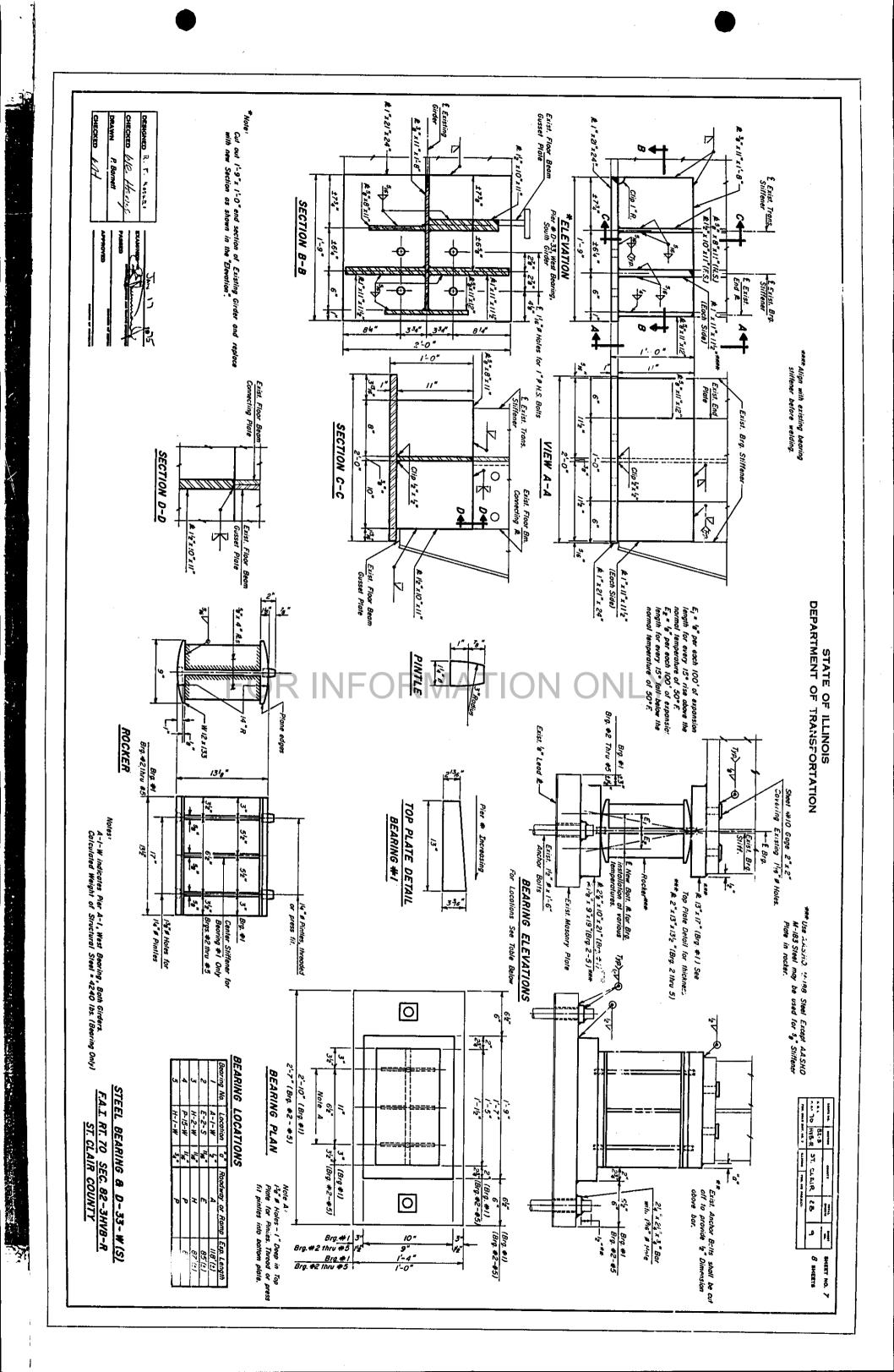
-











Note:

A-1-W(B) indicates Pier A-1, West Bearing, Both Girders.

A-29-W(S) indicates Pier A-29, West Bearing, South Girder. SECTION A-A SECTION AT GIRDER END

For Locations See Table A Clip I"x I"
Top & Bott. 7 A 5 58" x 8" x "L" 8 N. As 5 162x 3-6" 2-8-W(B) 72-4 8-15-E(B) 72-4 8-15-E(B) 72-4 8-19-E(B) 72-4 8-28-# (B) 8-28-E (B) \*\*Along & Girder or at Right Angles if an Skew. VIEW B-B 0 -43 - E (N) 0 -43 - E (N) 0 -44 - E (B) 0 -45 - W (B) 0 -45 - E (B) P-15-W(N) 63% H-1-W(N) 63% H-1-W(N) 63% Romp 0 0-6-W(S) 66% 0 0-6-W(N) 66% 6-6-W(N) 66% 0-11-E(N) 29% M-6-E(B) 60 STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION SECTION C-C Exist. Stiff. A 3 x 6 2" x 3-0 SECTION AT GIRDER END
For Locations See Table 8 4 £ Brg 6" TABLE "B" 0 100 RS 5 "x65"x 3'-6" 6-12-5 (B) 5-3-N (B) 5-7-8 (B) 5-7-8 (B) 5-7-8 (B) 5-16-8 (B) 5-18-8 (B) 5-18-8 (B) 5-18-8 (B) 5-18-8 (B) 5-18-8 (B) Romp P - 7 - 8 (B)
P-4 - N (B)
P-7 - 8 (B)
P-10 - 8 (B)
P-14 - 8 (B) D-26-E (B) VIEW 0-6 Es 58" x 6½" x 3'-0"

Clip I"x I" at Bottom

Inside Corner TAN TO HUBBY ST. CLAIR SECTION AT GIRDER END SECTION E-E 6" EBrg. E 52"770 16 ō SHEET NO. 8

ERI

70

51

DESKONED

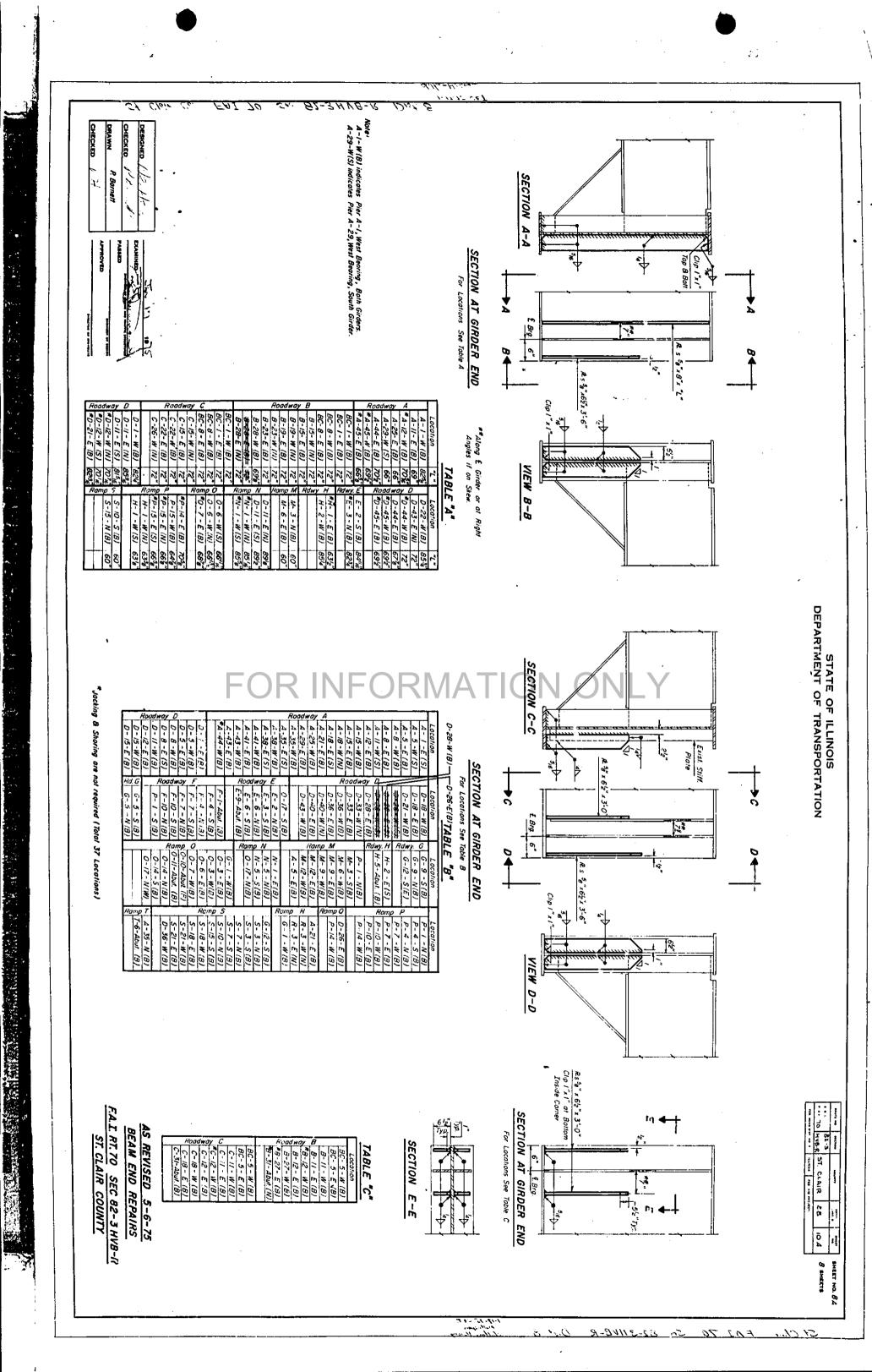
CHECKED NAMAG

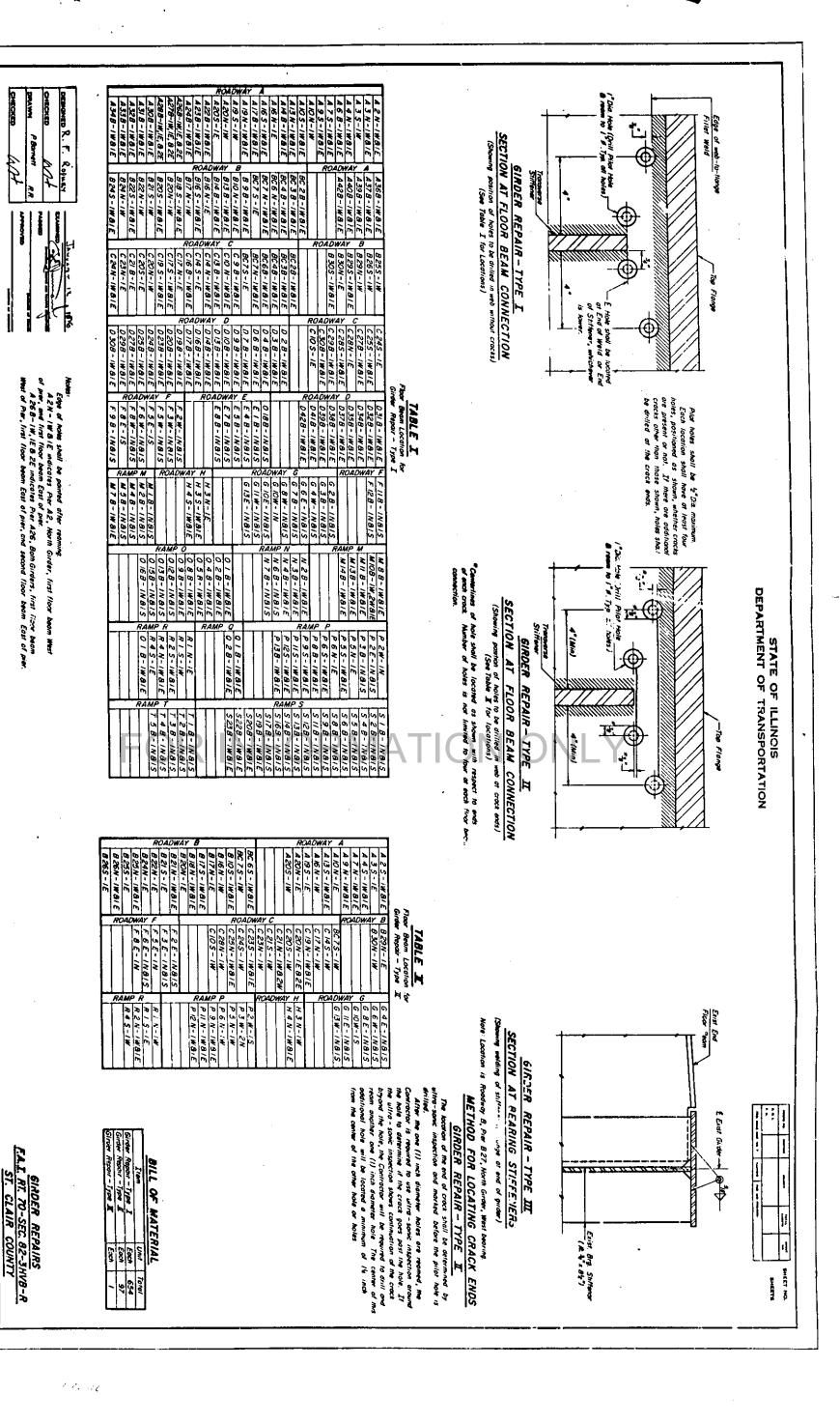
R P. Barnett Panu

Specting & Shoring are not required (Total 37 Locations)

FAI RT. 70 SEC 82-3 HVB-R

BEAM END REPAIRS





DESCRIPTION OF PROJECT:

SECTION 62-SHYB INCLUDES THE FURNISHING AND FARRICATING OF STRUCTURAL STEEL AND THE COMPLETE CONSTRUCTION OF THE FOLLOW-ING.

RAILROAD TRESTLE	ROADWAY G	ROADWAY U	ramp s	яль:Р М	ROADWAY A	ROADWAYS				ROADWAYS I	I AND C	
FOUR SIMILE SPANS 65-0, 93-4, 52-5, 52-5	PIER C2	PIER DI7	ONE-5 SEAN CONTINUOUS UNIT SPANS: 96'-12) -121'-123'-96'	ONE-3 NPAN CONTINUOUS UMI SPANS- UM-1/21-96*	ONE-4 SHAN CONTERIOUS UNIT SPANS: 120'-155'-155'-120'	ONE SIMPLE SPAN - YARIES FROM 116-10 1/8 TO 93-3 1/2	ONE SIMPLE SPAN - 110'	TWO SIMPLE SPANS @ 77'	ONE-5 SPAN CONTINUOUS UNIT SPANS: 106'-136'-115'-115'-90' •	FIVE-4 SFAN CONTINUOUS UNITS SFANS: J @ 9311911993' 2 & 9812512598'	EIGHT - 1 SEAN CONTINUOUS UNITS:  SPANS: 2 & 17'-100'-17'  1 EACH & 77'-100'-77'  90'-115'-90'  90'-115'-90'  91'-117'-22'*  97'-124'-97'	TWO-4 SPAN CONTINUOUS UNITS
WELDED PLATE CIRDERS ON R.C. PLAS AND STEEL BENTS	REINFORCED CONCRETE	REINFORCED CONCRETE		WITH ROLLED FLOOR BEAMS AND STRINGERS ON R.C. PIERS	CURVED WELDED PLATE GIRDERS	R.C. PIERS	COMPOSITE LANCE CIRDER ON	COMPOSITE WF ON R.C. PIERS		(* AND S ILL-IMBU ABUINENTS)	CURVED SELDED PLATE CHIDERS SITH ROLLED FLOORBEAMS	WELLIAD PLATE CIRDERS WITH ROLLED FLOORBEAMS AND STRINGERS ON B. C. PIERS

HERRALIRUS I HESTLE IN THIS MELTION CARRIES THE NORTH RALIROAD (PERIOACH 10 THE MACARTHUR BRIDGE OVER ROADWAY A', 'E' AND C' NO RAMP M',

HIS SECTION INCLUDES THE EMBANKMENT FOR RAWP OF HETWEEN BUTMENTS OF AND OH (FROM STATION 17-82, 3) TO STATION 21-74-27).

CONTRACT NO. 24130

ROAD CLASSIFICATION 4454-T-50 3190.33 FT. + . 604MILES

DEPARTMENT OF PUBLIC FEDERAL **WORKS AND BUILDINGS** ILLINOIS HIGHWAY PROPOSED

FA.I.-70 82-3HVB ST.CLAIR 25

F-90-067-00

G.6511-04-52-2 A32004 \$104:111

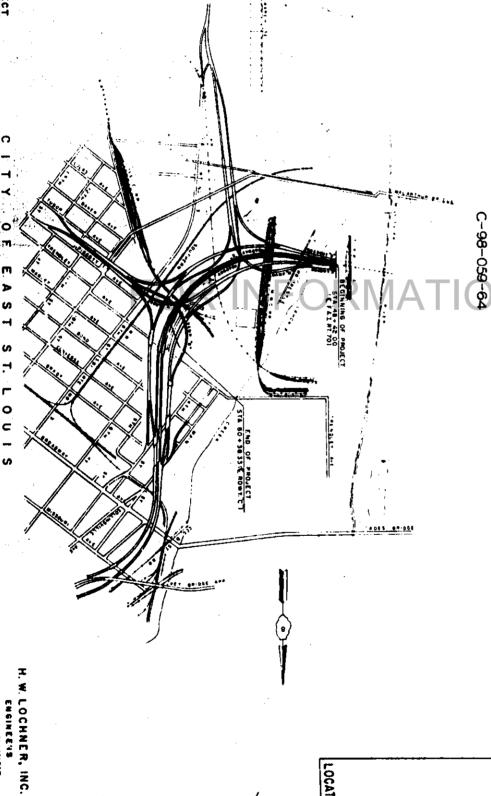
100 T 100

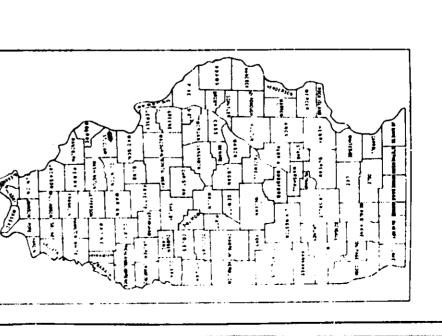
SECTION

114403

POPLAR STREET BRIDGE APPROACHES F A. I. ROUTE 70 PROJECT 月I6~70-I(69)0 SECTION 82-3HVB

ST. CLAIR COUNTY





The state of the s 14.45 t see 124

LOCATION OF SECTION INDICATED THUS:

A CORD (

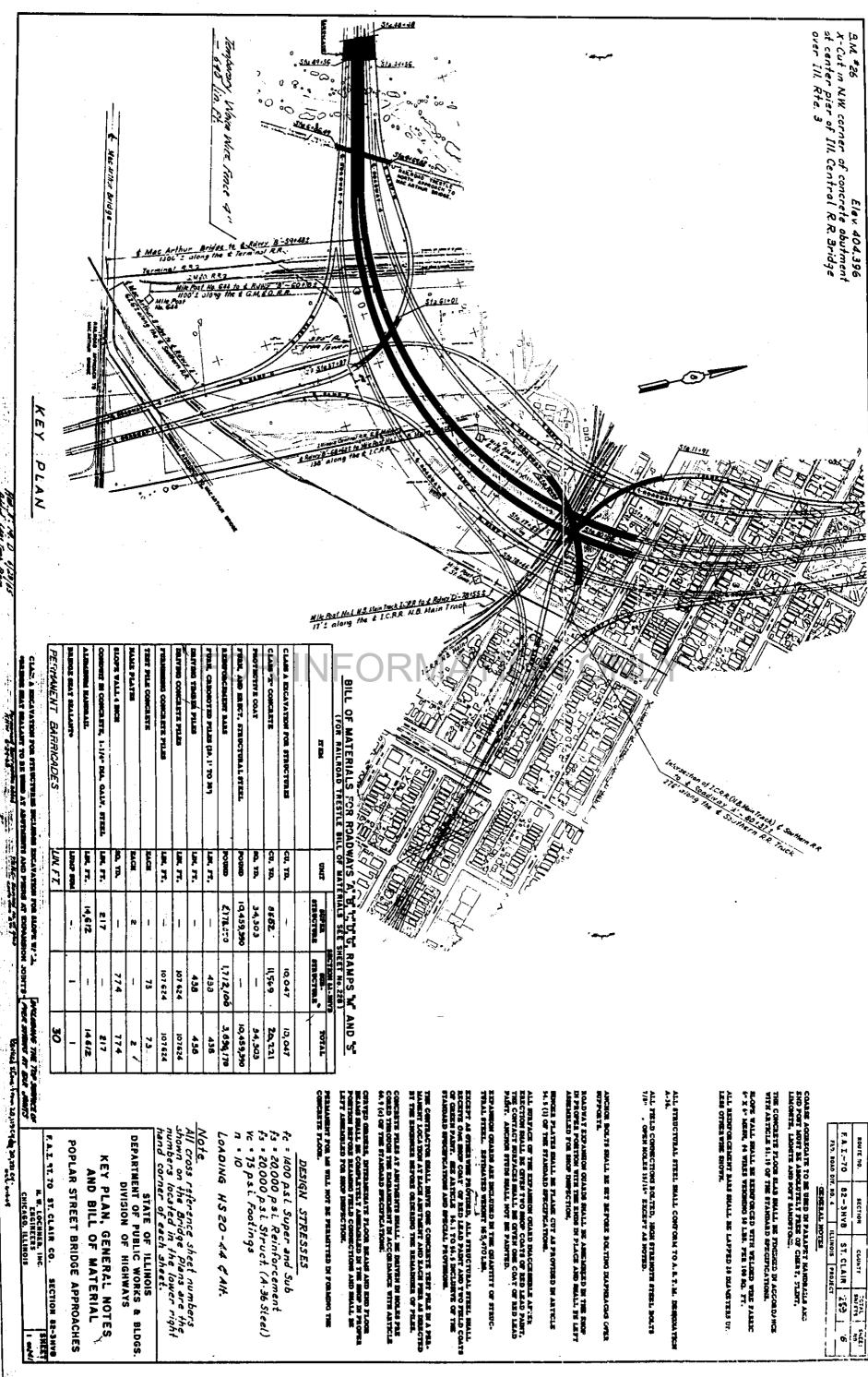
DEPARTMENT OF COMMERCE

6 Ŵ

CHICAGO, ILLINOIS 不是

SECTION 82-3HY9 EAI. ROUTE 70 PROJECT 1-10-70-1(69)0

Ġ



ROUTE TO. SECTION COUNTY STATE SALE.

F.A.I.-70 82-3HVB ST. CLAIR 259 6 SELON TVENCED STATE SATES

COARSE ACCRECATE TO BE USED IN PALAPET HANDRELS AND END POST MUST BE ABSCRUTELY PRES OF CHERT, FLDIT, LINCHTE, LIGHTE AND SOFT SANDSTONE.

SLOPE WALL SHALL SE KERDFORCED WITH WELDED WINE FAIRN: 6" X 6" MESH, 14 WILLS WEIGHING 50 LISS, PER 100 SQ, 2T. THE CONCRETE FLOCE SLAB SMALL BE FINCHED DI ACCORDINCE WITH ARTICLE SL. 19 OF THE STANDARD SPECIFICATIONS.

ALL REDUCECEMENT BAS SHALL BE LAPTED 20 DEAUGTERS OF LESS OTTER WISE SHOPK.

All steuctural steel shall contorm to A.B.T.M. designation A-16.

Anchor Boltz shall be set bepose Boltdho dhapheachg offic Supposets.

roadway expansion goards snall by absended by the snop di proper position with the ends di place and snall by left amendiled for snop dispection,

EDICKE PLATES SIALL BE PLANE CUT AS PROVIDED DI ARTICLE SAS (1) OF THE STANDARD EPECIFICATIONS.

ALL SUNYACE OF THE EXPANSION GUAID DIACCEMBRIE AFTER EXECTION SHALL BE CEVEN TWO SHOP COATS OF RED LEAD PADIT, THE CONTACT SURFACES SHALL HE CEVEN ONE COAT OF RED LEAD PADIT. ANCHOR STUDS SHALL NOT HE PADITED.

expansion gradis are included in the grantity of structural street. Estimated weight 165,470 lim.

EXCEPT AS OTHER WHE PRÓVIDED, ALL STRUCTURAL STEEL SKALL
RECEIVE OM SHOW COAT OF RED LEAD PART AND TWO FRLD COATS
OF CREEK PART. SEE ALTICLE 16.1 TO 15.5 DECLERYE OF THE
FTAIRMARD SUBCEPTATIONS AND SPECIAL PROVIDENCE.

CONCRETE FILES AT ASSTRUCTE SHALL HE DRIVEN DI HOLES FAR CORED THROUGH THE EMPANICATION OF ACCORDANCE WITH ARTICLE (44.9 (4) OF THE STANDARD SPECIFICATIONS)

PERMANENT FOR AN WILL NOT BE PERMITTED IN FORMING THE CONCRETE FLOOR.

DESIGN STRESSES

LOADING HS 20 - 44 CAH.

POPLAR STREET BRIDGE APPROACHES KEY PLAN, GENERAL NOTES AND BILL OF MATERIAL

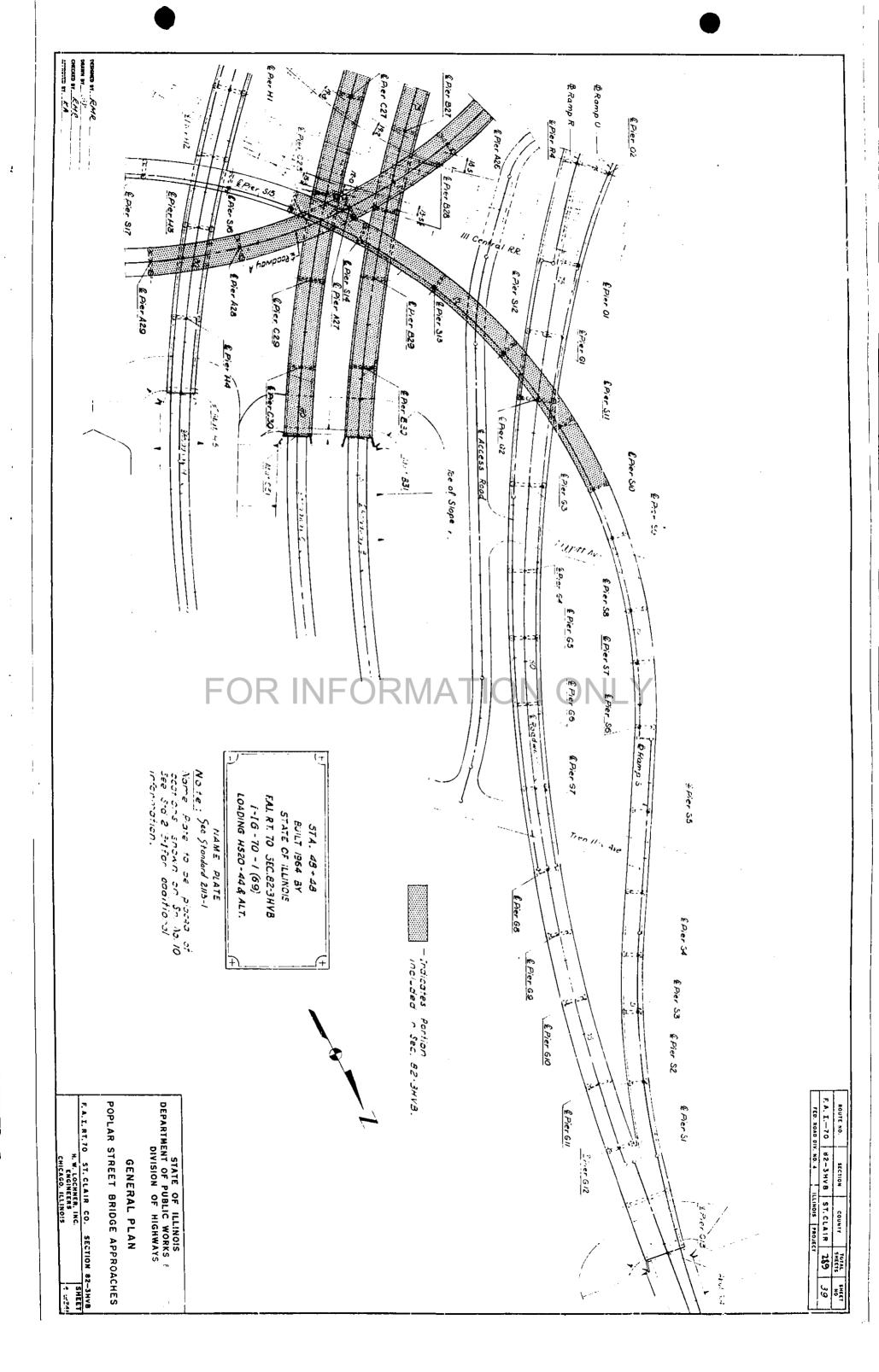
SECTION 82-3HVO

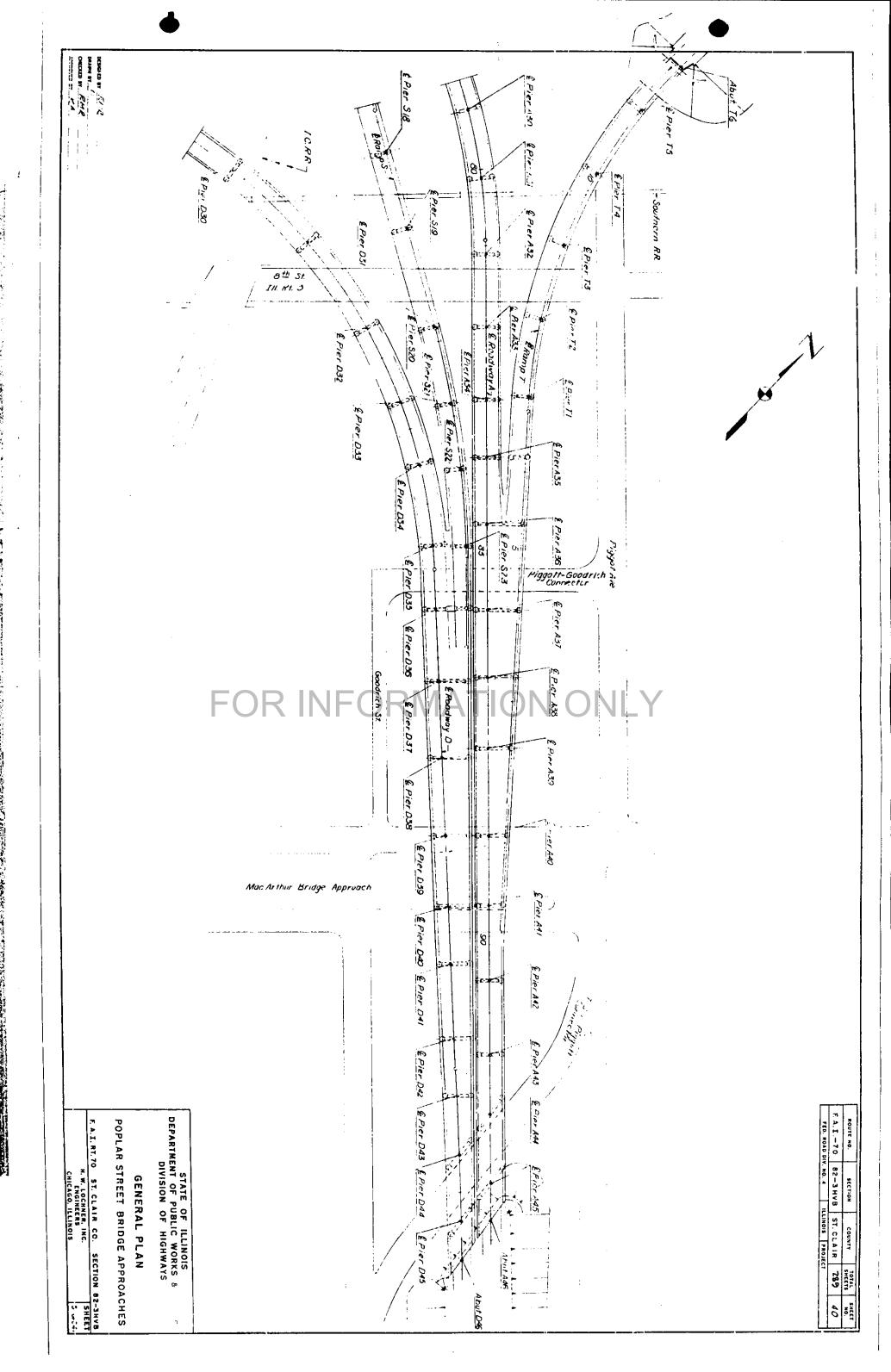
E.A.Z. 97, 70 ST, CLAIR CO.

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

The second secon

DESCRIP BY RMR
DRAWN BY A
CHECKED BY RMR
APPROVED BY KA ERODDWAY C Pier Di Limit of Project Limit of Project H 138 Je & Der SCI & Pier AZ EPier D2 & Pier D3 EPier DA ( Pier OS EPIER MIA EPier Do Poraco Eperacy Eperacy Eperage Poor 30 Eperal & Pice DI EPIER MIS Railroad Treshe North Approach Epier 47 & Pier Da & Pier 1412 EDIET AB (Pier DS (Acres J. Company · // & Pier DO Emer AID Epier AII (Pier DII EBer CII EFIELDIZ E Pier M9 £ Pier B12 EPHCS: Pier Mi Terminal K.R. Assoc. Of St. Louis ر ا BAHEĵċ. Gulf Mobile & Olio R. Z. 8 10.00 21.00 £ Pier MB F.A.I.—70 82—3HVB ST. CLAIR 749 STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORK
DIVISION OF HIGHWA EPACA13 ROUTE NO E.A.I.RT.70 ST. CLAIR CO.
H.W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS POPLAR STREET BRIDGE APPROACHES E Aer 13 ERODINAYO & Pier DIS GENERAL PLAN SECTION Pier BA & Her MT & Pier N3 EPIET CH E Pior Ald & Pier Di SECTION 82-3HVB 377 SHEET 2 05/41 Ø

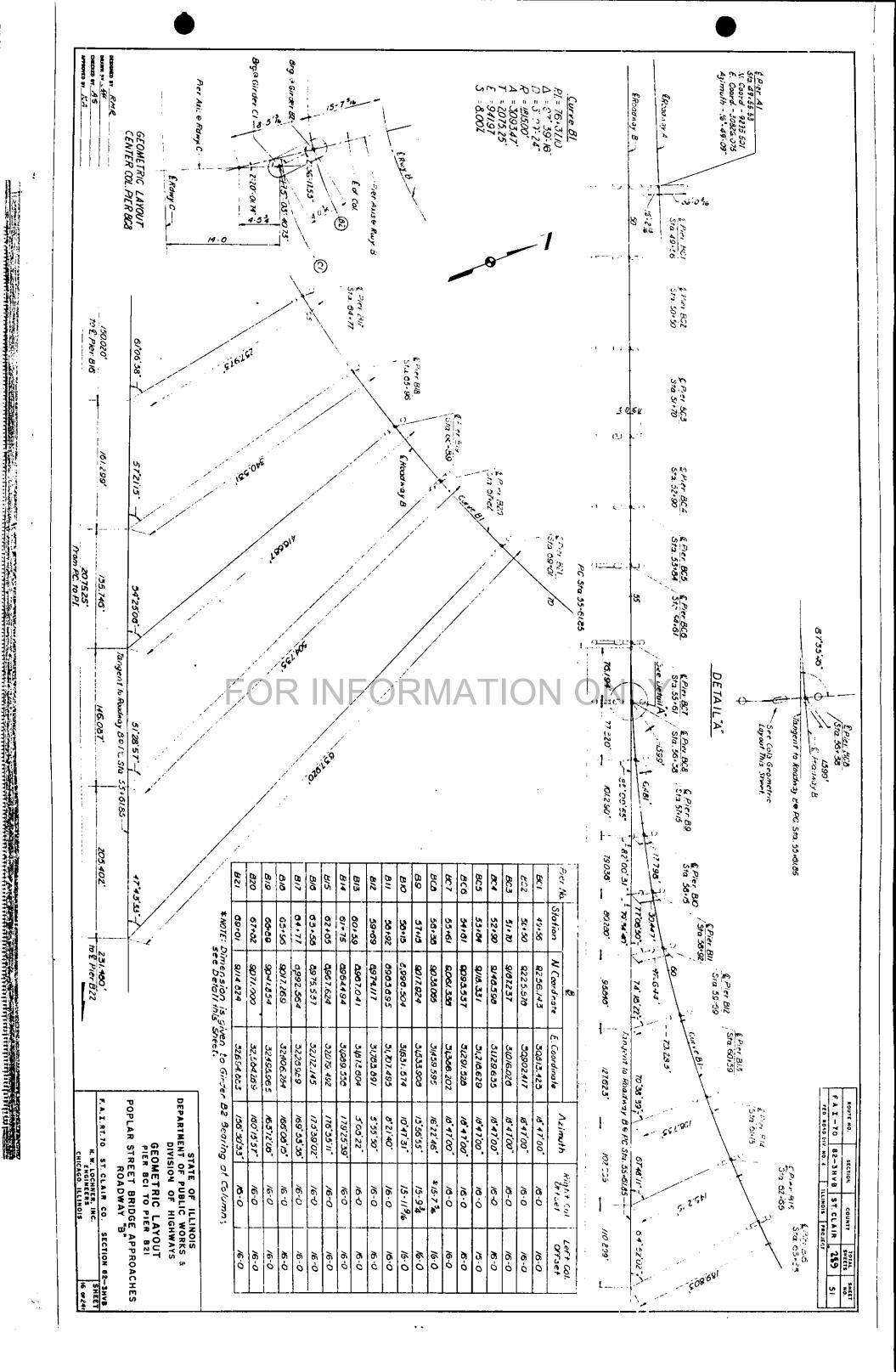


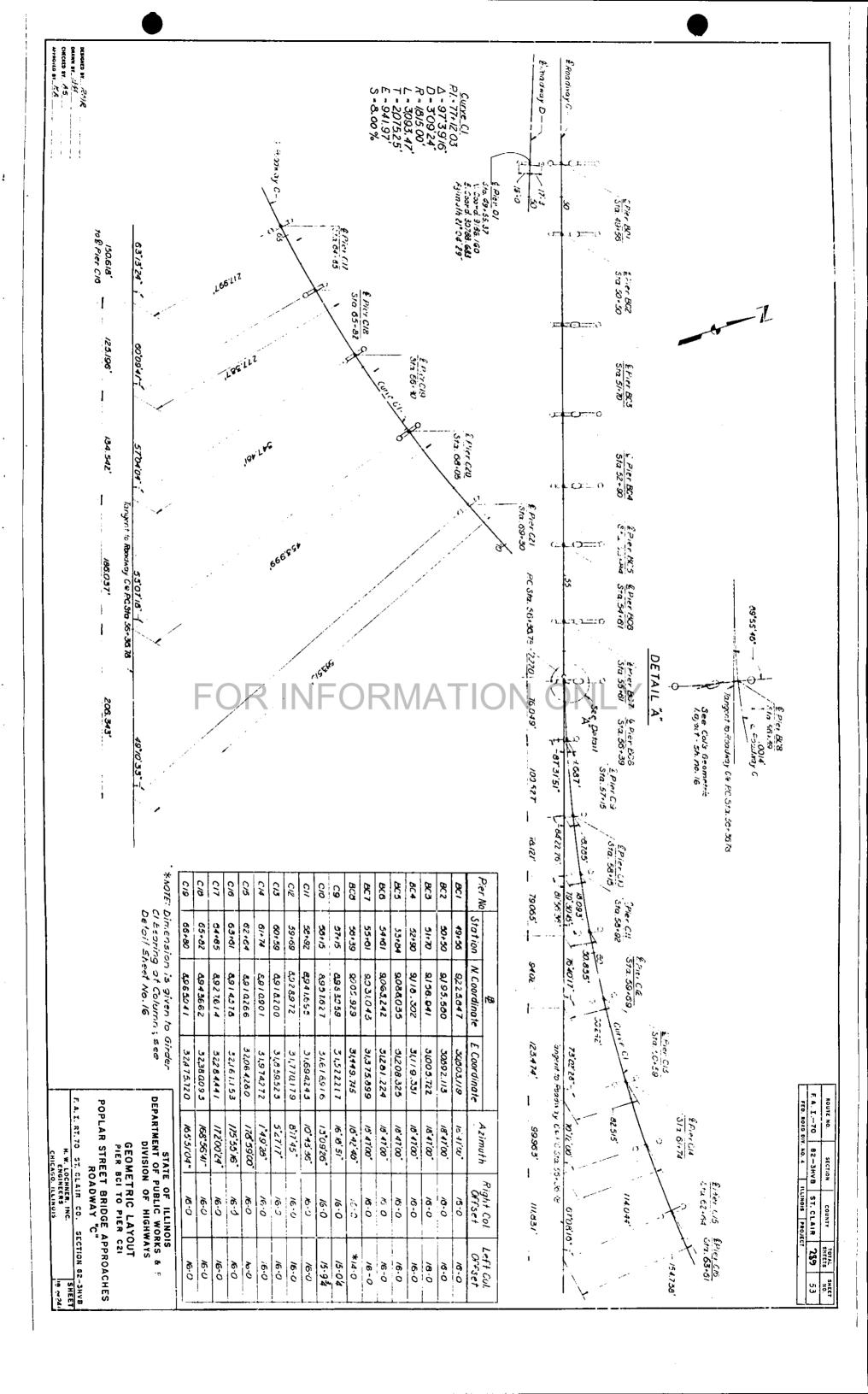
The state of the s esex element in the factor of 


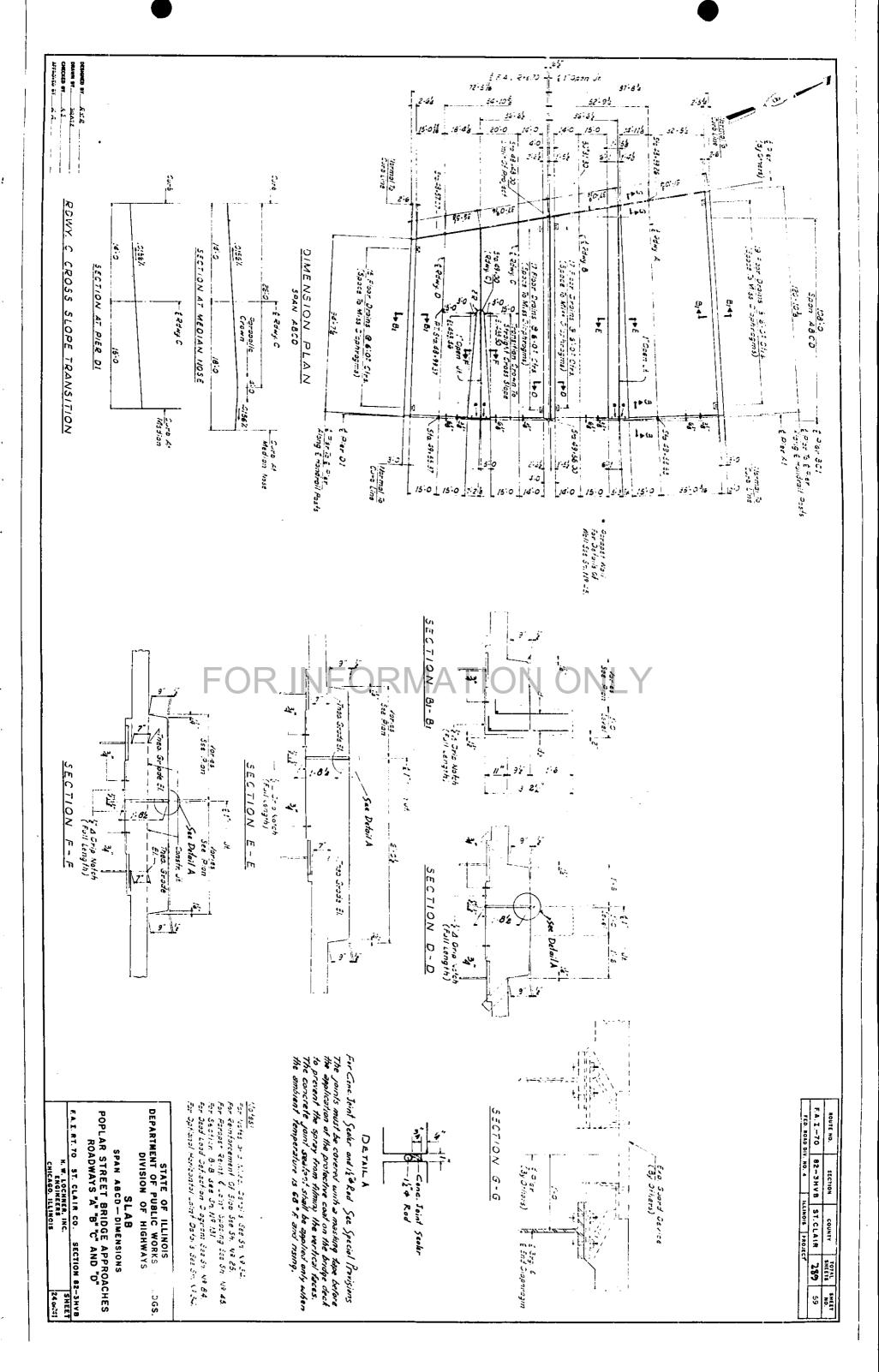
tim tradicional in the first of the few productions of the contradiction 

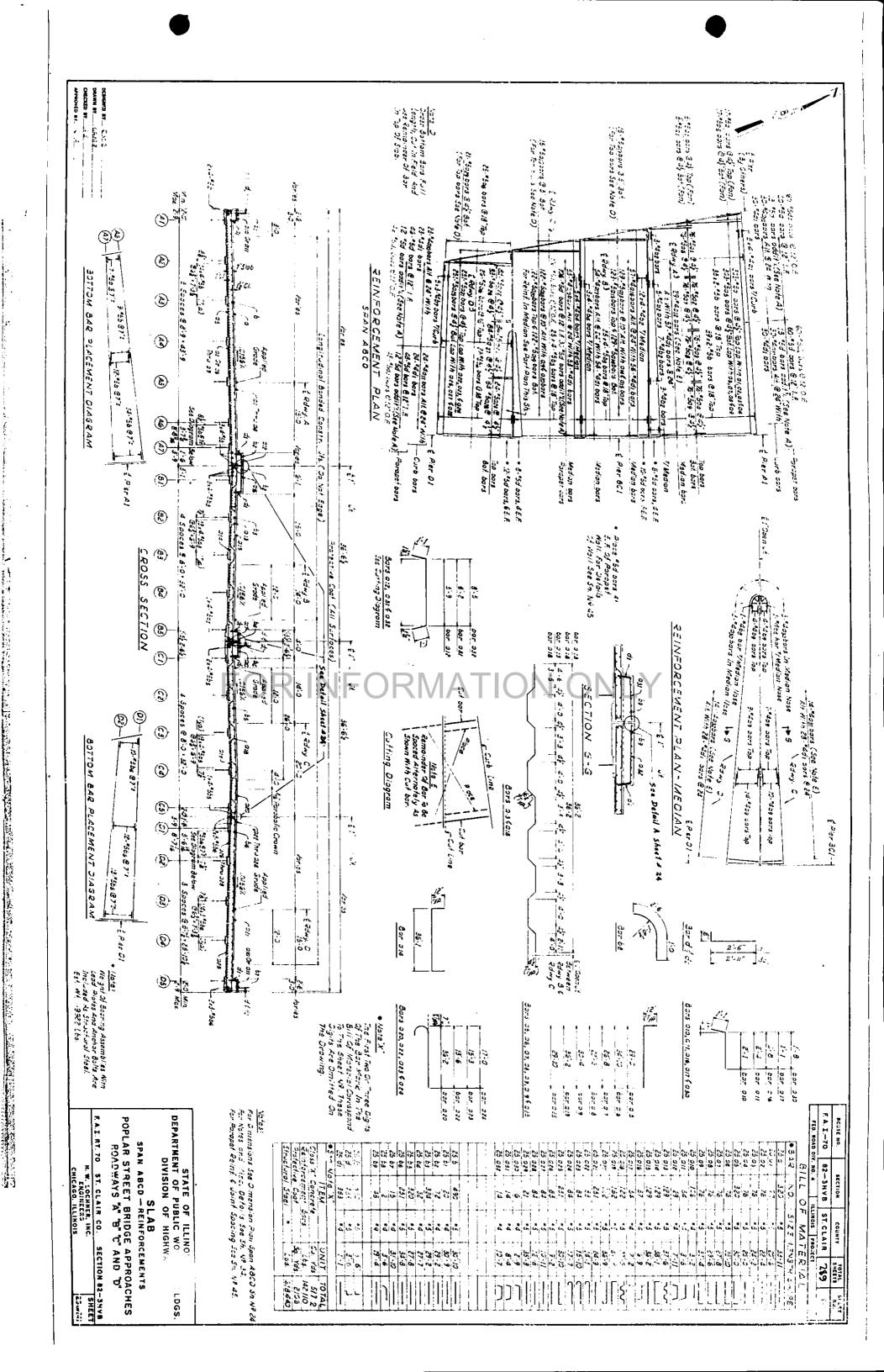
(G) (F) STA. 48+48 (E FA. I. P. 70) LIMIT OF PROJECT ( by Oiners) 5'0 48 + 57.07 El 454.47 LIMIT OF PROJECT-Limit of Project Sta. 48+48 Limit of | | Project | | Sta. 48+48 | by others Simple Span
72 Web Welded
Girder Composite Open Joint & Roadmay A. Open Joint SPAN ABCD 108-0 #VC Sto 49-12,50 El-452,000 215 510 49-40.50 51.452.006 CEOr 13-MI 94-0 SPAN BCI C Poadway D 510 49 + 55.37 = 1. 451.47 5:2 49.55.53 E: 45! 48 Sla 49+56 El 451.74 JE 27 13 - 111 - £ Per BC2 120-0 SPAN BC2 ⊈ Roadway C PYLSta 51+4050 El. 445006 L.V.C.=400' 5h 50 + 50 E/. 249.34 PROFILE ROADWAY 12" Web Welded Girder æ, <u>0v [ S:a5|+40.50</u> EI. 446.001 LNC = 400' BB20 & PIET BCI TO EPIET BCB SONG & ROWY B ROADWAY Per BC3 120-0 SPANBC3 1 2/ 386.0 Sta 51-70 ELEVATION 2 8 Direction of 50.7.83.26 50.51.18.0 B 27. 94-0 3 (F) SAAN BC4 raffic PVTS 0.53+43.50 El. -1 47.086 <u> 2775/253,40.5)</u> El. 147.08., 2010 WE COSO III Railroad Trustle
North Approach to
Mac Arthur Bridge
1-14-6 Min Park Cl - E Per BC5 - E Per BC6 77-0 100-0 SPAN BC5 SPAN BC6 Sta 50.51 A Railroad Trestle 10 North Accrosch 10 Mac Arthur Birgs SAN BC6 SFIN 27 E 4 STAN BC6 SFIN FRES. STAN B 3 Span Continuous 72" Web Welded Girder CEC+13-0 revist Ground 0.542 10.54% o 504: C7 5ta 55+61 CE 4010 5/2 55.61 5/2-3.60 86917. 4.3. 4V THE PIET BC8 Dimensions leten along E Ababias 6 Fransition 2 to 3 Widen Sig. 56-33 El 443,4 Dimension taken alang & Roadway C 57 \*\*\*\*\*\* 5: 453.188 27.C. 10 19.5360 21.45..524 ٩ (4) F.V.C.Sta 50+15 PROF PRO, FILE m P.V.E. Sta 51+50 El. 445.543 L.V.C. 270' <u>PVI 805115360</u> El. 445.404 LV.C. 4001 ROADWAY  $\alpha$ OADWAY <u>112 feet</u>
For Koy Film, Bollera' Notes, Bill of Materials.
Benon Mark that Design corresponded En N9 1.
For Bearistic Layout And Clave Caro visu PLAN AND ELEVATION
SPAN ABCD, SPANS BCI THRU BC6, SPAN B7 8 SPAN C7 STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS &
DIVISION OF HIGHWAYS F.A.T.-70 82-3HVB ST. CLAIR FEB. NOAD DIV. NO. 4 ILLINOIS PROJECT POPLAR STREET BRIDGE APPROACHES
ROADWAYS "A", "B", "C" AND "D"
FAIRT 70 ST. CLAIR CO. SECTION 82-3HVB ROUTE NO. 0 Direction of Traffic 9 H. W. LOCHKER. INC. ENGINEERS CHICAGO, ILLINOIS = = 9 SECTION 0 5.30 % ➣ J. 21,00% COUNTY PVT No 52+85 PV TSta 53+53.50 E1. 446.404 El. 440.218 SECTION 82-3HYB TOTAL SHEET
SHEETS NO.
289 42 SHEET NO.

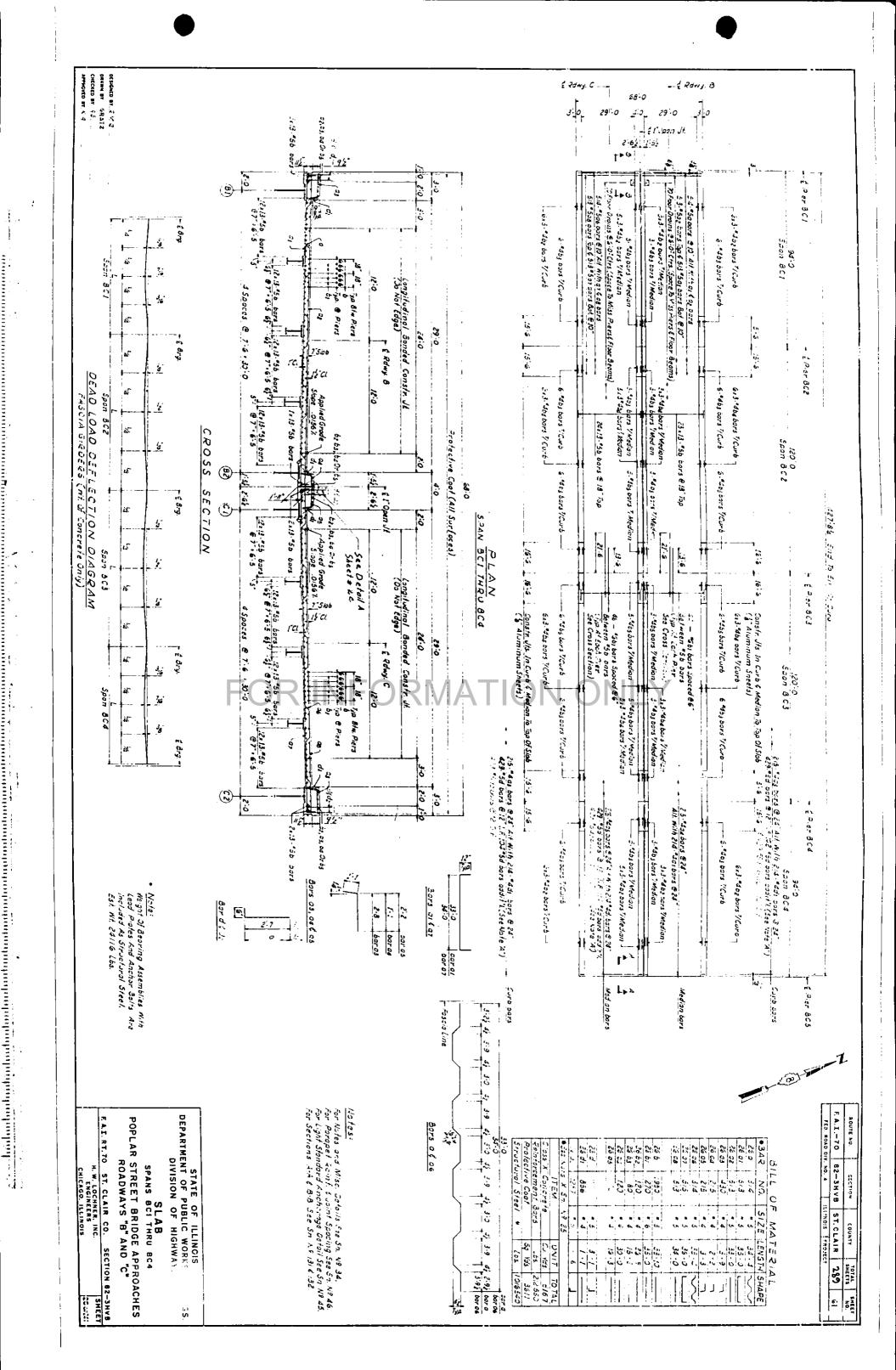
197

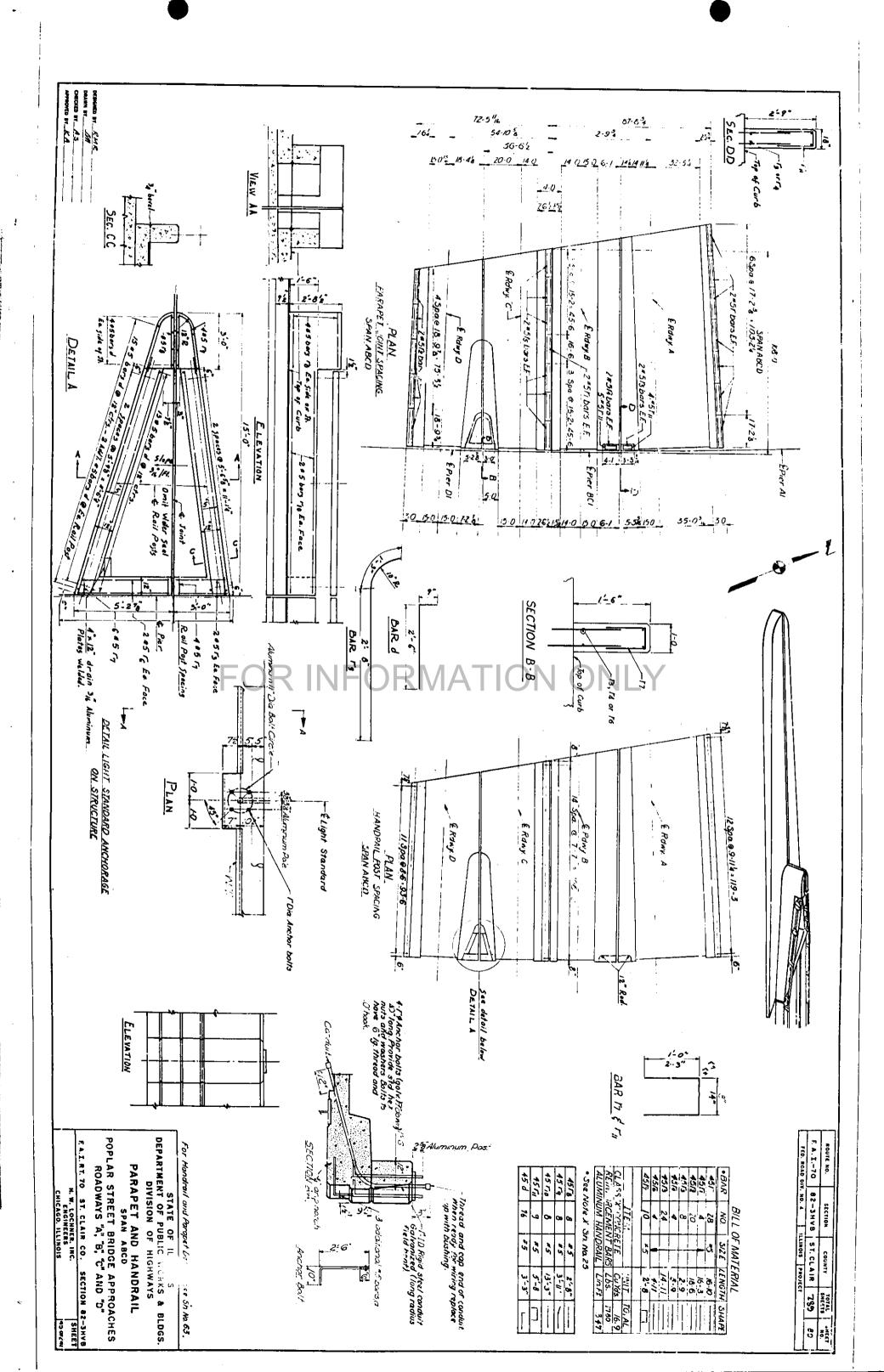


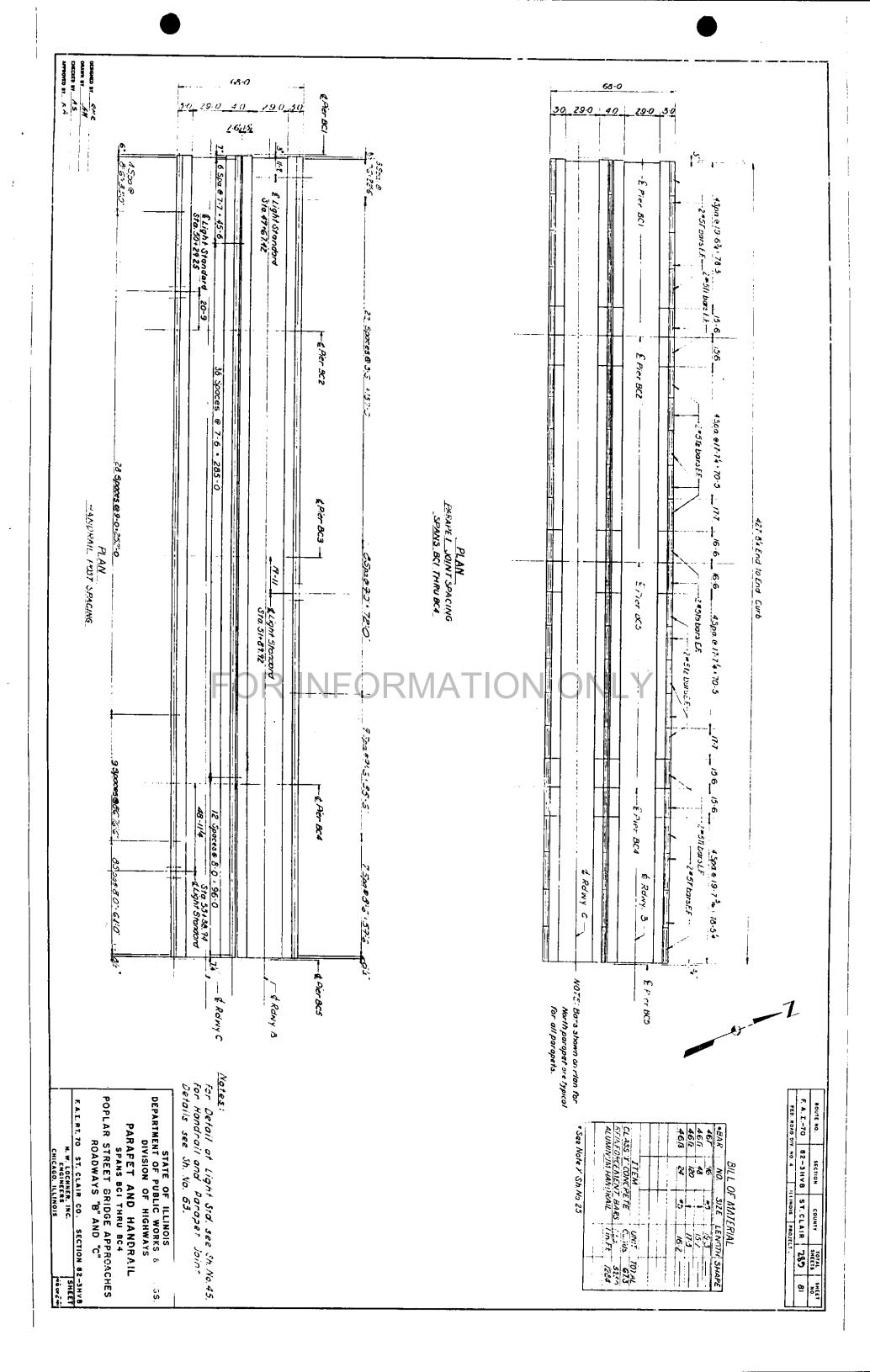


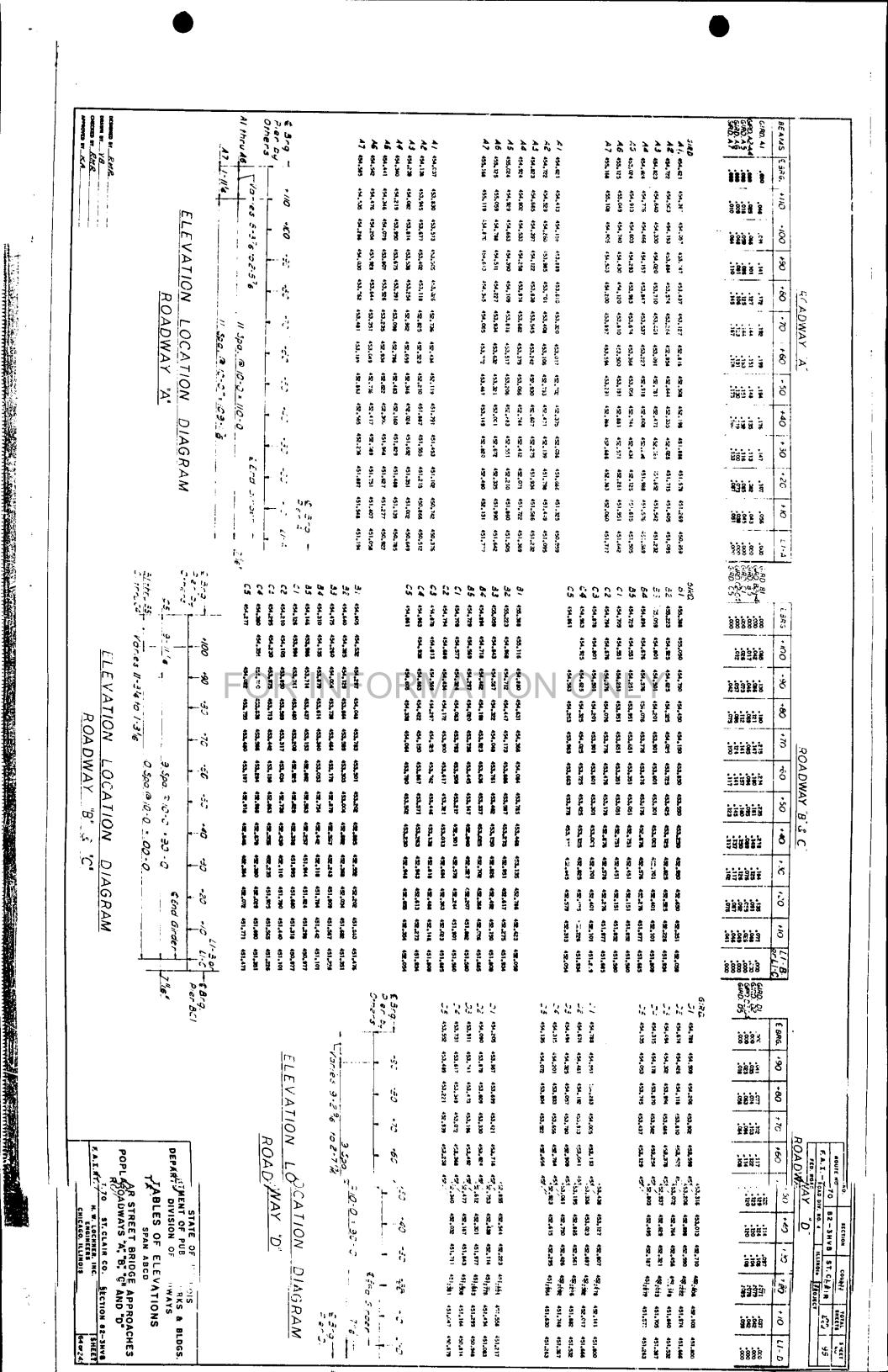












SPAN 6C!  12.5 1 1.5 2 2.5 3 3.5 4 4.5
3.5 4
3.5 4
3.5 4
3,5 4
3,5 4
3,5 4
4 5
4 5
1 6 1
. 8
.000
1 1
.010 .021
7
5.5AN EC 2 7.5 &
.03
٠, و
.018
, jo
.00.5

## THEORETICAL ELEVATION TOP OF CONCRETE

GRD. BI 5-A0. 22 51.P. STR 451,599 451,420 451,482 451,303 451,950 451,771 451,716 451,537 451,833 451,654 451,245 451,128 451,362 451.479 451,596 490.975 490.856 451.092 451,209 451,326 450,715 450,598 450.83 450, 349 451,066 450,463 450,346 450,580 450.697 450,614 450,220 450,571 150, 337 450,454 13.56 43.761 13.55 43.64 450.220 450,337 450,112 440,895 450,103 449,378 49,985 49,778 49,54 449,661 445,571 445,372 445,182 445,011 446,546 49,337 49,138 44,349 44,787 44,535 49,220 449,021 449,531 441,650 444,478 49,454 449,255 448,065 448,884 448,712 44.58 44.58 44.42 44.55 44.42 44.55 448,743 443,629 \$10.015 \$1.18 449,249 44,35 441,443 47.575 44,112 44,229 448,346 447.867 447.750 47.94 448, 101 447.748 47.665 47.982 47,631 47,63**8** 

# THEORETICAL FLENCTICE TOP OF CONCRETE + D.L. DEFLECTION

6/90, 5/ \$75 iy. SIR. 451,482 451,308 451,599 451,425 451,716 451,833 451,659 451,542 451,776 451,617 451,500 451,266 451,143 451,383 451.243 451,009 451, 126 450,850 150,636 450,987 450,870 450.753 451,104 450,384 450, 501 450,618 450,735 450,852 450,252 450,008 449,772 450,135 449,851 449,655 450,369 450,486 450,600 450,359 450,125 449,889 450,242 450,006 449,782 456,123 449,899 119.548 119,431 48,220 448,024 48,337 449,111 48,337 449,123 49,571 49,375 449,688 449,492 449,310 448,140 448,579 1 448,075 448,785 448,784 1 448,595 448,785 448,627 4 448,642 448,572 448,530 49,153 449,023 448,861 448.672 448.570 448.254 448.202 448.705 448,553 448,404 44,622 44,670 448.471 446.319 448.170 44,541 44,436 441,287 44,8 44,053 40.377 447, 909 448.260 140.026 44.143 440.121 47.770 441,0:4 449.238 447,187 47.640 47,991 47.75 47.874 47,931 47,874 47,757 47,640 47,523

5. AC. 31 451,133 450,959 451,016 450,842 451,899 450,725 451,367 451,193 451,250 451,076 451,034 450, 566 450,683 450,800 450.917 450,306 437,542 450.776 450,425 450,659 450,287 450,035 450,170 449,918 450,053 449,801 490,404 450,521 450,289 450,020 THECRETICAL ELEVATION TOP OF CONCRETE + D.L. DEF\_ECTION - SLAB TH'CKNESS [7]
450,288 450,000 448,776 448,540 449,315 448,105 444,540 448,726 424,556 448,355 448,239 448,007 47,558
450,102 448,560 448,650 448,423 449,180 448,580 448,781 448,650 448,423 448,278 448,170 47,500
450,003 448,786 448,560 448,006 448,001 448,571 448,571 448,670 47,570 149,68 49.38 49,425 49,189 44,864 49,304 49,077 44,847 49,542 449,306 449,081 44.771 44.574 44.771 44.574 44.537 44.457 140,375 E4.13 448,205 448,044 447,888 447,736 447,597 44,086 447,227 447,771 447,619 447,470 47. **2**5 47.42 47.50 47,676 47,783 447, 187 447,304 47.421 447, 538 41,655 47,05 41,174 47,291 47,40 41,25 446,940 447,174 447,408 47.057

#### D.L. DEFLECTION (FT)

		1 4 /5	1
•	.000	=	† :
	8	11.5	-
	8	12	
	9	135	
	8	12.5	 
	8	13.5	10772
	9	7.2	a c
	8	14.5	
	8	3	
		/5.5	
		16 16	
	3	5	
		17 17.	H
	8	7.5 /ê	
	.011	ĈĐ	
	-21	/8.5	
	.031	1.1	SF
	8	/9.5	1
	623	2 0	4
	.030	.5	
	22	1 21	
* - *	.005	.5	
	.00	ر <sub>س</sub> , نــــــــــــــــــــــــــــــــــــ	_

## THECRETICAL ELEVATION TOP OF CONCRETE

6.80.82 57.8 41,88 41,88 57.8 41,711 41,611 47,537 47,420 47.44 447,327 47,478 47,403 47,361 47,286 47,244 47,168 417,595 47,712 47,637 417,50 417.571 417.514 417.486 417.627 417.586 417.274 417.526 417.538 417.328 417.282 417.28 47,1% 146,962 47,313 447,430 447,079 47,02 47,353 47,403 47,470 41,520 47,236 47,286 447, 169 47.02 447, 106 417.223 147.340 447,457 41,514 41,62 41,62 47.511 47.277 47.160 47.33 47,44 47,565 47,214 447,600 447,366 47,483 47,717 47.539 47.519 47.402 47.225 47.753

# THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION

31RD 82 417,420 GRJ 81 47,888 STR. STR. 47.654 47.77 447,797 47,44 47.563 447,680 47,721 47,657 47,604 47,540 47,487 47,423 47.370 47,306 447, 134 447,602 47,251 47.35 447,485 417,202 47,436 47,390 47,318 47,311 47,279 47,255 47,243 47,245 47,265 47,295 47,335 47,553 47,507 47,446 47,428 47,38 47,372 47,360 47,362 47,360 47,410 47,42 47,319 47,273 47,232 47,156 47,115 47,038 46,998 417,194 447,102 417,103 417,105 417,101 417,029 417,017 447,045 417,021 447,009 447,011 447,029 446,980 446,982 446,982 446,890 446,912 447,059 447,107 47,176 47,218 47,288 47,151 47,034 47.50 47.41 47.207 47.24 447,090 47,612 47.144 47.261 47.378 447.193 47.661 447,310 47.94 47,427 417.236 47,353 47,74 447,470 417,806 47.3% 47,48 47.25 447,285 447,402 47.733 447.638 447.519

# THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION - SLAB THICKNESS (7')

6.4D.81 47,305 STR. STR. STR. 447,071 47,100 1 47,214 146,863 146,960 146.746 41,197 41,013 41,00 44,00 44,10 44,120 # 5 46, 608 46,667 146, 901 \* 446,794 447,018 16,151 16,161 16,171 16 146,610 146.735 446,690 446,648 444,573 448,377 146.434 446,611 446,578 446,554 134.311 14. 3H 446,437 446,426 #. V3 416,543 14,23 16,46 34,34 45,46 146,545 446,540 446,540 ##.4% ##.3# ##.63 446,518 446,401 446,558 444,445 444,740 £6,34 446, 912 44,578 447,029 136,361 ##.## 18.77 447,078 44,18 447, 120 # .# 47.003 446,7**3**\$ 46.90 47.023 447,140 446, 996 447,053 447, 170 E11.34

FED. ROAD DIV. NO. 4	FA.I -70 82	HOUTE NO.
	ЗНУВ	SECTION
ILLINOIS PROJECT	ST. CLAIR	COUNTY
CT.	289	TOTAL SHEETS
	100	NO.

floor Beam 15 molectes a line to 5 may between licen Beam 1 and Floor Beam 2.

The lines of elevations for sampers are identified by their febring costion to the Singer indicated in the laples. Note A.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & E
DIVISION OF HIGHWAYS TABLES OF ELEVATIONS
SPANS BCI THRU BC4

POPLAR STREET BRIDGE APPROACHES
ROADWAY "B" A. I. RT. 70 ST. CLAIR CO. LOCHNER, INC.

CHICAGO, ILLINOIS

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS POPLAR STREET BRIDGE APPROACHES
ROADWAY "C" A. I. RT. 70 TABLES OF ELEVATIONS H. W. LOCHNER, INC. SPANS BCI THRU BC4 ST. CLAIR CO. ଅନ୍ତର

, 13.2 2.3. 10 65

619D. CI 446,137 STR. 447. 305 447, 188 447,071 146,954 24,74 447.214 447.097 446,980 446, 569 447,020 446.903 446,805 446.839 447.073 446.956 446,550 446,501 446,456 446,414 446,377 446,344 446,320 446,311 446,667 446,451 446,457 446,451 446,457 446,451 446,457 446,451 446,451 446,451 446,451 446,554 446,543 446,543 446,501 446,502 446,507 446,546 446,572 446,665 446,762 446,76 THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION - SLAB THICKNESS (7.) 446,431 446,428 446,445 446,476 446,582 446,679 446,545 446,562 446,311 446,328 446,359 446,710 446,827 446,503 446,752 446,635 446,685 446,518 446,568 446,401 446,451 446.919 146,802 445, 740 446.823 446,506 446, 857 446.974 446,678 146,561 447.02 446.912 446. 795 446,944 446,961 447,078 446, 727 C19\*9# 446.692 417, 120 447,003 446,886 446,906 446, 672 47.140 447,023 446,819

i

61RD, C1 447,420 GIRD C2 47.888 47.771 447.537 447.654 447,446 47,33 447, 797 447, 963 447,680 47,253 447,804 447,487 447,370 417,540 447, 189 447,423 447,306 447,445 447,368 447,251 47,134 447,436 47,319 447,273 447,122 447,156 447,156 447,138 417,095 447,038 446,990 446,990 446,994 446,994 447,292 447,156 447,115 447,077 447,045 447,021 447,390 THEORETICAL ELEVATION TOP OF 47,46 47,48 47,396 47,392 47,24 CONCRETE + D.L. DEFLECTION 447, 131 446,997 446,998 446,912 446,942 446,984 447,014 447,011 447,029 447,059 447,101 446.87 447.245 447.263 447.362 447.380 447,128 447,146 447,293 447,335 447,410 447,452 447, 176 447,218 447, 151 447, 305 447,268 447, 502 447.034 447.324 447.207 447,558 47.41 447,090 447.370 447,261 447.612 447.495 47,14 133,534 147,544 447.427 447.310 447,193 47,236 447,704 447.470 447,353 47,517 47.723 447.489 447.372 447.235 447,606 447,285 447,400 447,519

STR.

GIAD. CZ 447.888 GIRD, CI 41,420 STR. 447.77 147.654 447.678 447,444 447,361 41,27 417,244 447.795 447.561 447.478 41,712 447, 595 447, 169 447,286 447,637 447.50 147,403 447.337 447,270 447,571 447,454 447, 103 447,046 446,998 (16,999 446,928 446,936 4446,834 446,834 447,010 447,007 447,011 447,025 447, 397 447,514 41,280 41,232 447,466 447.349 447,193 447,162 447,140 447,128 447,124 447,128 447,142 47,310 47,278 47,257 47,245 447,427 417,386 447,374 447,362 THEORETICAL ELEVATION TOP OF CONCRETE 47,241 447,245 447,259 447,362 447,376 445,931 446,962 447,046 447,079 47,339 47,430 417,282 447,313 447,353 447,165 447,196 447,236 447,119 447.169 447,032 447, 50 447,463 447.286 447,457 447.340 47.23 47.27 447, 106 447,394 447,160 447,511 417.565 417.682 447,448 447,331 447,249 447,285 447,366 447,402 447,483 447,519 447,600 47,636

	SWA38	
.000	=	  -
0.1	11,5	
Q. B	12	
.01	12.5	
.019	/3	
8	13.5	5 /
š	14	PAN BC 3
.03		C 3
.031	15	
.031	15,5	
.070	6	
.007	6.5	
. 8	77	_
8	/7.5	
. 110	ò	
N N	/8.5	
8	ت	ļ.,
	/9.5	PAN
2	20 20.5	BC 4
.cu	20.5	
	21	
.α.5	21.5	
000	1.3	_

D.L. DEFLECTION (FT.)

GIRD. CZ GIAD. CI STR. STK. 451.367 \$51,250 451, 133 451,077 450.960 450.M3 30.7% 450,567 50.00 451,035 490,918 150,543 450,660 450, 309 450,170 450,287 450,404 450,152 449,303 449,659 450,321 450,269 450,000 449,776 190,053 449,916 449,552 450,035 449,786 449,542 449,918 119,425 449.300 449,189 449,423 449,198 449, 206 449,081 449,072 449.540 449.315 448,847 448.964 448.754 448.637 **149.** 105 140,988 448, 571 448,446 448,258 448,914 448,726 448,556 141,590 141,450 141,372 141,690 141,450 141,372 448,563 448,375 448.205 448,068 448,395 448,239 442,087 448,044 447,888 447,736 448,161 441,005 447,853 447.527 447.771 447.619 48.276 448,172 447,570 447,704 447,821 447.587 447.938 447,470 47.793 447,676 447, 500 447. 25 447.442 447,304 447,605 447,538 447.421 447, 107 447,408 447,174 :17.291 447,525 447,174 446,940

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION - SLAB THIC.inc SS (7)

GIAD CZ STR. 451 **••**3 451,833 451,716 451,239 451,426 451.680 451.543 67.73 451,267 451,384 451, 150 451,501 451,618 451,360 451,243 451,126 451,009 450.852 450,988 450,637 450.871 450.734 490.384 450,852 450,603 450,501 450,252 450,004 450,735 450,486 450,510 450,369 450,135 449,891 449,655 449,431 449,220 450.242 450.359 690,125 450,006 449,749 450,123 449,899 149,009 149,665 449,772 449,548 449,454 419,337 449.588 449.571 449.029 448.842 448.672 448.510 448.354 445,497 445,310 445,140 449,146 442,959 444,769 449,263 449,076 449,906 449,961 448,705 448,627 448,471 448,744 448,588 44,319 444,670 448,202 448,553 87,873 449,404 449.287 448,170 48.006 48.377 44,143 140,004 47,207 441, 121 447, 991 447,757 44,100 447.874 447,640 447,874 447,523

THEORETICAL ELEVATION TOP OF CONCRETE + D.L. DEFLECTION GIAD, C2 451,990 STR. STR. 451.633 451.716 451.537 451.654 **9**.11 451,420 451,303 451.245 451.362 451.479 451.326 451,209 451,082 450,975 450,858 451,066 450.949 420.83 450,715 450,598 450,346 450,103 450.697 450.580 450,462 450,571 450,454 450,337 450,220 449,059 449,644 449,427 449,220 449,021 449,031 446,550 449,081 449,781 449,544 449,337 549,138 444,548 449,787 450,337 450,103 450.220 49,995 449,778 449,179 449,661 449,454 449,608 449,571 449,372 449,182 449,001 449,489 449,299 449,118 449,255 449,065 14.7 418.595 418.315 448,829 448,549 148.346 449, 783 441.829 448.278 448.512 448.161 44.355 W.W. 245,249 44.13 11.42 44.779 447,995 446,112 44.34 447.078 144.101 47.94 47,867 441.218 447.962 447,865 447,748 347,631 140.099 447.75 447.372 447,638

THEORETICAL ELEVATION TOP OF CONCRETE

	GEAMS	£009		
. 8		27		_
§	1	12.5		
.93		`		
.030		1.5		
.03		N		
.031 .02		2.5	ļ	VYAN
160*		w		90.
		3.5		
.01	+	4		
.8		4.5		
.38		G		-
6	1	5,5		
-0 <del>8</del> 0-	- 1	6		
<u>.</u> 8	1	6,5		
.8		7		
8		7.5		0000
- 2		00		00
8	1	8.5		
	1	v		
.000 .010 .000 .010 .000 .010 .010		9.5 10 10.5		
	1	ó		
.007		10.5		

DEFECTORICH (FIL

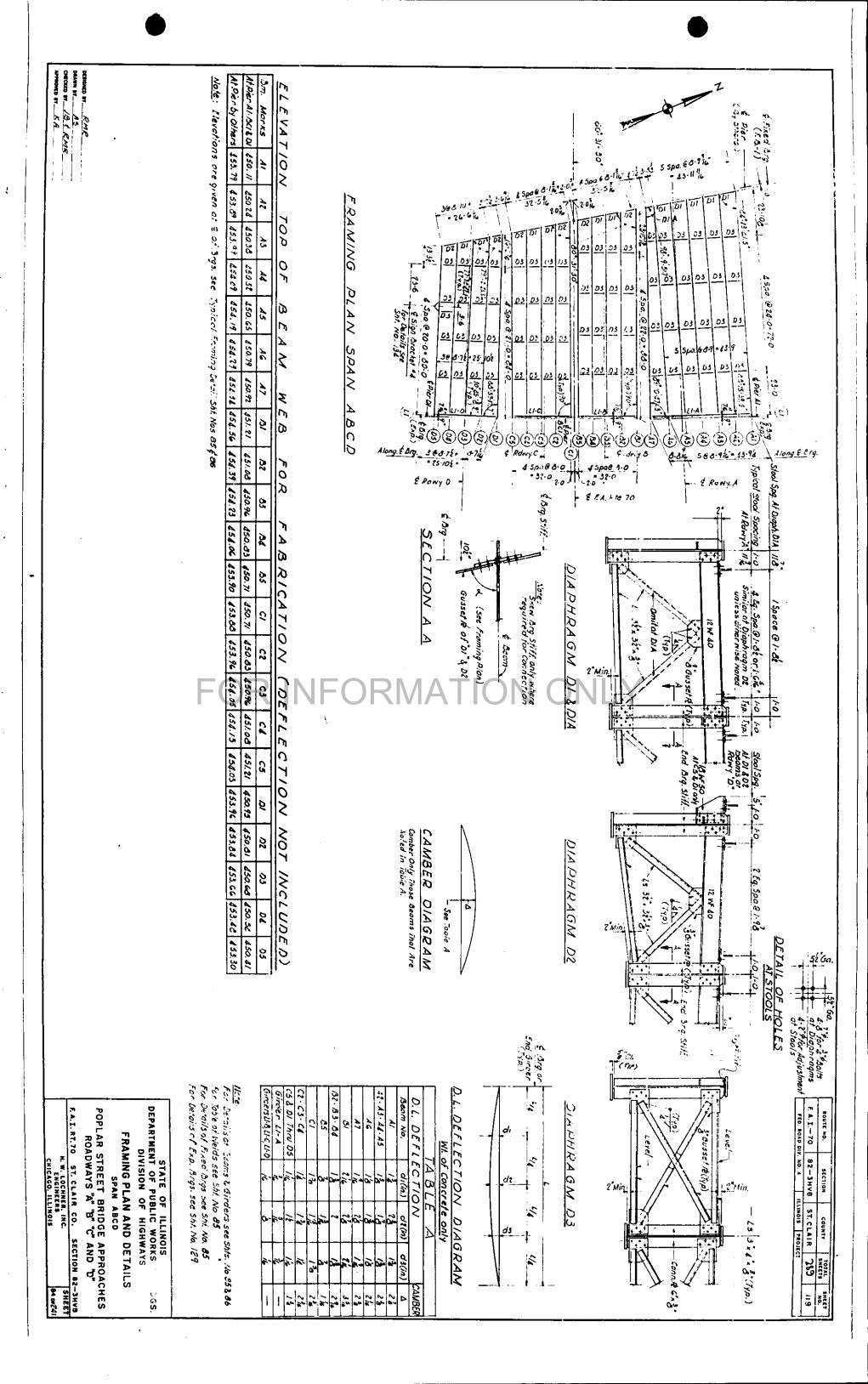
F.A. I. -70 82-3HVB

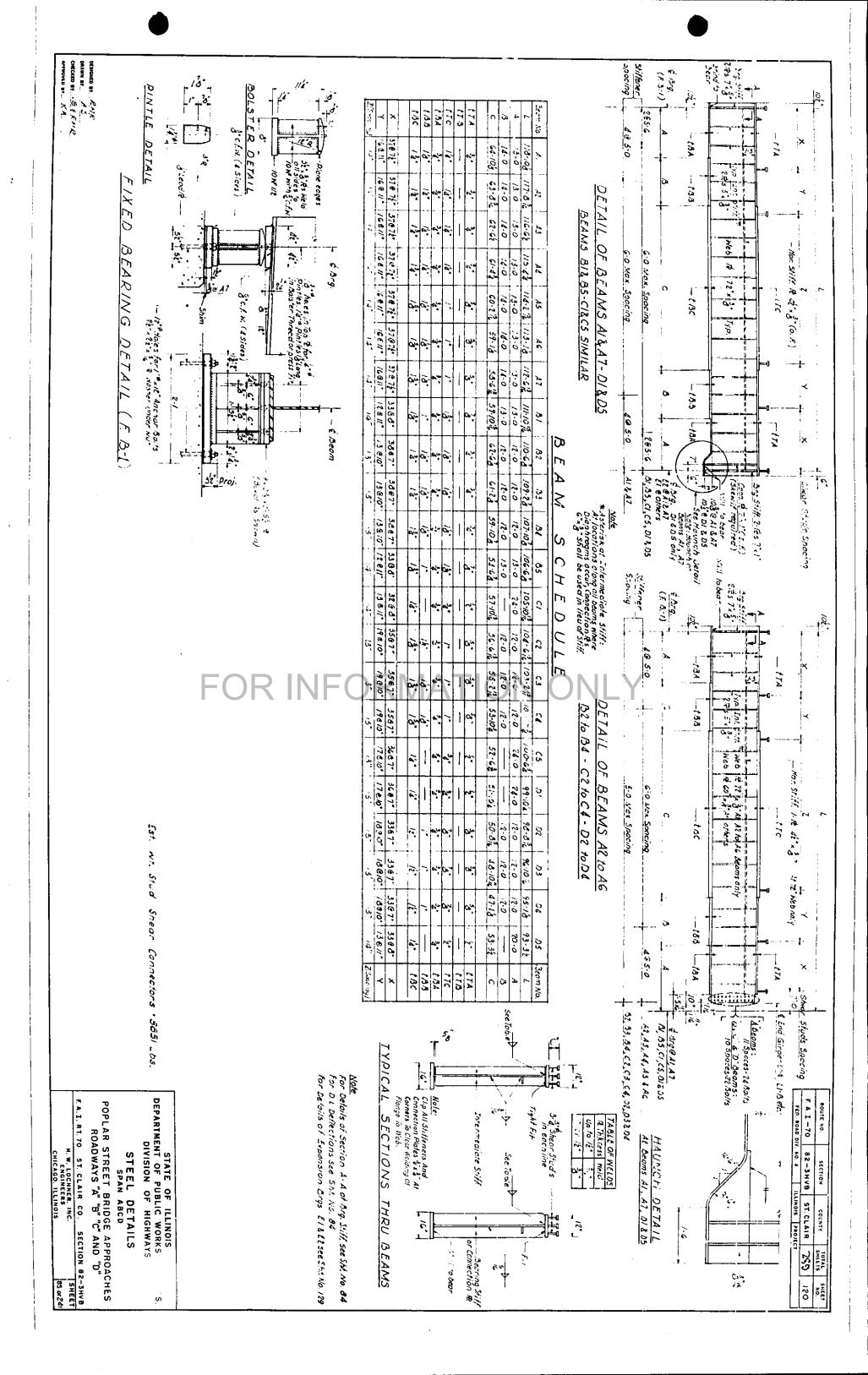
ILLINOIS PROJECT ST. CLAIR COUNTY

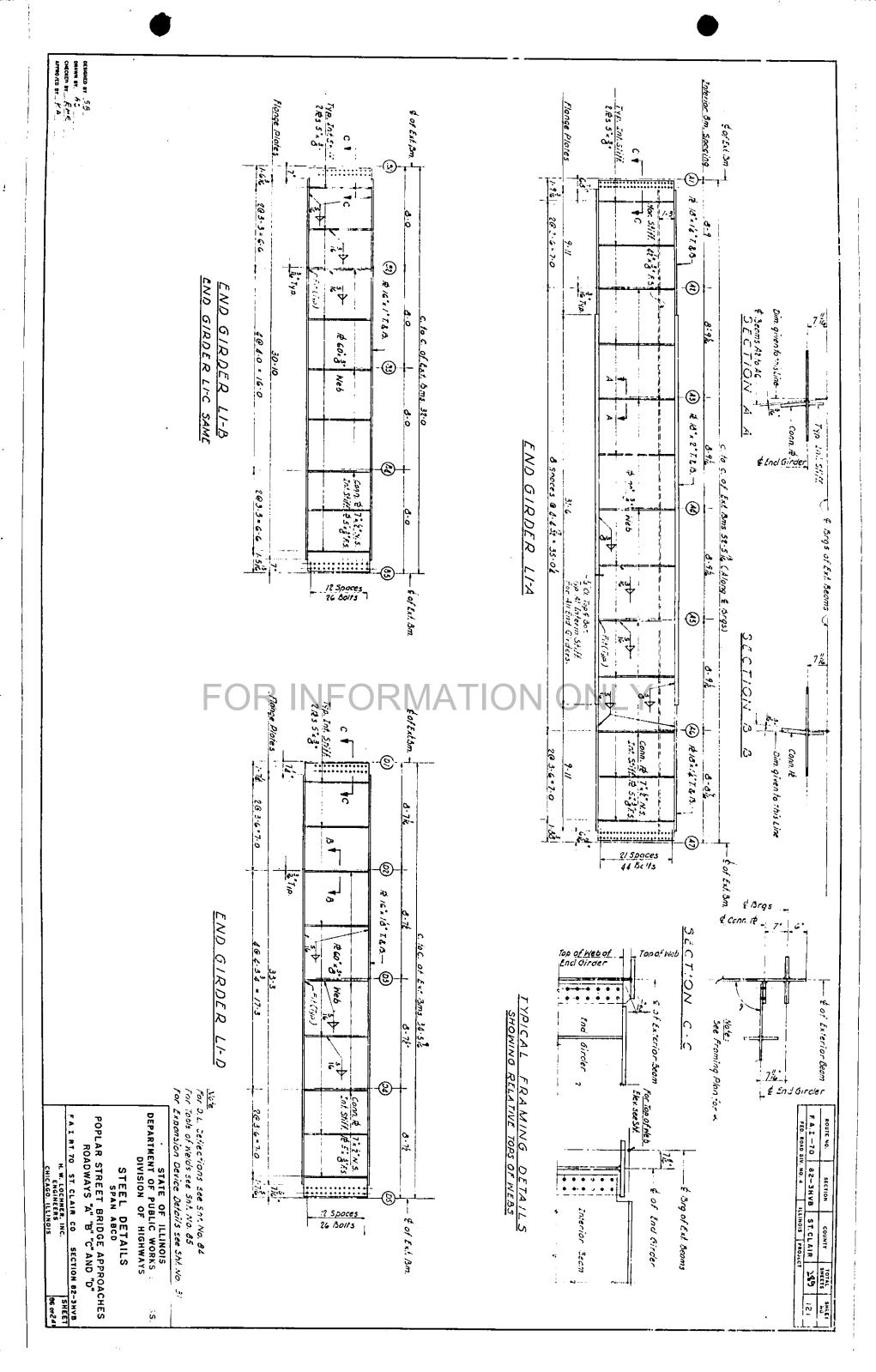
ROUTE NO.

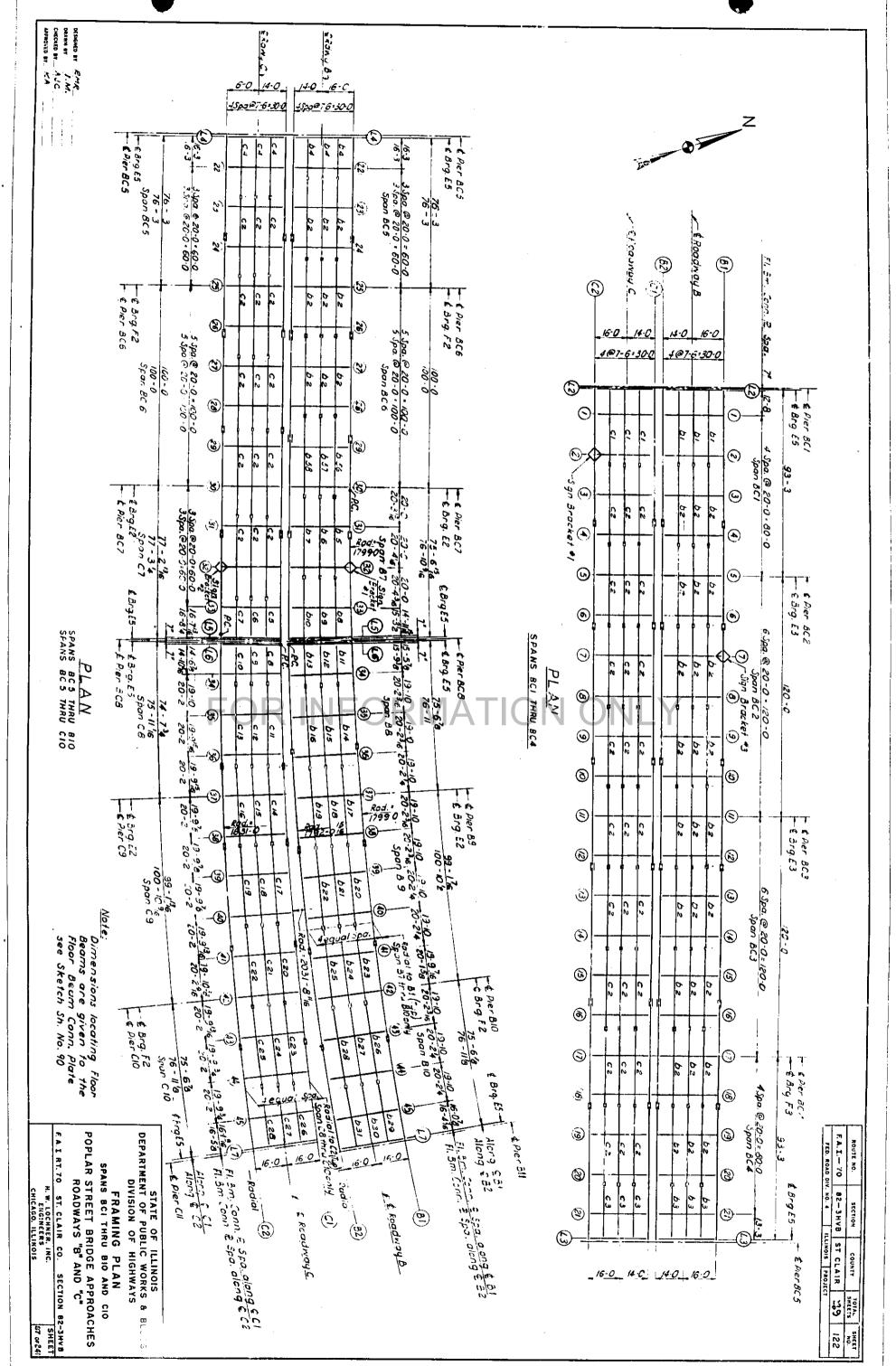
SECTION

TOTAL SHEET NO.









FOR INF

ROADWAY

liste: \*Asserisks indicates a avation to of flonge of WF.

100

ELEVATIONS - TOP OF GIRDER WEB STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS &
DIVISION OF HIGHWAYS POPLAR STREET BRIDGE APPROACHES ROADWAYS "B" AND "C"

EA.I.RT. 70 ST. CLAIR CO H. W. LOCHNER, INC. SECTION 82-3HVB

FW50

TYPICAL ROWY. BEAM 36 NF 170 80.00 <u></u> B Detail B ELEVATION 8000 2002 C 2000 C 20 8000 Detail C 888 Sy Erloor Beam Beam Conn A 2000 880 ř 2 5 87:433 97:000 5 87:433 97:000 5 87:433 97:000 5 97:52:12 97:0000 5 97:52:11 97:0000 80.00 90.000 As 90°C3-10 90°20-00 Š

FAIRT70 ST. CLAIR CO SECTION 82-3HVB
H. W. LOCHKER, INC. SHEET
ENGINEERS
CHICAGO, ILLINGIS 115 or 24

Attachen in the state of the st

FLOOR BEAM SCHEDULE

POPLAR STREET BRIDGE APPROACHES

ROADWAY "B"

F.A.I. RT. 70 ST. CLAIR CO SECTION 82-3441

STATE OF ILLINOIS

DEPARTMENT OF PUBLIC WO SLDGS.

DIVISION OF HIGHY

For Detail 4, B and C see Sh No. 33

FED. ROAD DIV. NO. 4 | ILLINGIS | PROJECT | FED. ROAD DIV. NO. 4 | ILLINGIS | PROJECT | FED. ROAD DIV. NO. 4 | ILLINGIS | PROJECT | FED. ROAD DIV. NO. 4 | ILLINGIS | PROJECT | FED. ROAD DIV. NO. 4 | ILLINGIS | PROJECT | FED. ROAD DIV. NO. 4 | ILLINGIS | PROJECT | FED. ROAD DIV. NO. 4 | ILLINGIS | PROJECT | FED. ROAD DIV. NO. 4 | ILLINGIS | PROJECT | FED. ROAD DIV. NO. 4 | ILLINGIS | PROJECT | FED. ROAD DIV. NO. 4 | ILLINGIS | PROJECT | FED. ROAD DIV. NO. 4 | ILLINGIS | PROJECT | FED. ROAD DIV. NO. 4 | ILLINGIS | PROJECT | FED. ROAD DIV. NO. 4 | ILLINGIS | PROJECT | FED. ROAD DIV. NO. 4 | ILLINGIS | PROJECT | FED. ROAD DIV. NO. 4 | ILLINGIS | PROJECT | FED. ROAD DIV. NO. 4 | ILLINGIS | PROJECT | FED. ROAD DIV. NO. 4 | ILLINGIS | PROJECT | FED. ROAD DIV. NO. 4 | ILLINGIS | PROJECT | FED. ROAD DIV. NO. 4 | ILLINGIS | PROJECT | FED. ROAD DIV. NO. 4 | ILLINGIS | PROJECT | FED. ROAD DIV. NO. 5 | ILLINGIS | PROJECT | FED. ROAD DIV. NO. 5 | ILLINGIS | PROJECT | FED. ROAD DIV. NO. 5 | ILLINGIS | PROJECT | FED. ROAD DIV. NO. 5 | ILLINGIS | PROJECT | FED. ROAD DIV. NO. 5 | ILLINGIS | PROJECT | FED. ROAD DIV. NO. 5 | ILLINGIS | PROJECT | FED. ROAD DIV. NO. 5 | ILLINGIS | PROJECT | FED. ROAD DIV. NO. 5 | ILLINGIS | PROJECT | FED. ROAD DIV. NO. 5 | ILLINGIS | PROJECT | FED. ROAD DIV. NO. 5 | ILLINGIS | PROJECT | FED. ROAD DIV. NO. 5 | ILLINGIS | PROJECT | FED. ROAD DIV. NO. 5 | ILLINGIS 
Splice or End Fl. Bm. (See End Schedule 1/4 1/6 89:34:33" 1.23/6 \*\* Floor TYPICAL Beam ROWY B Floor Beam Conn. R. riace Brown Conn 18 W 50 See Fl. Bm. Schedule Sh. No. 115 Conn iz Floor Bearn Conn. 12 -See Fl. Br., Schedule Sh. No 115 4 Str. Splice or End Fl. 8m. 69:23:06 05.53.00° \$ \$ \$ \$ \$

Cesignated as a

an End Girder.	264 200000 264 200000 264 200000 264 200000 264 200000 265000 26500 265000	0 4 0 0 4	Str. Set 36 W 150  TYPICAL ENC FLOOR BEAM ELEV  ROWY B	
DEPARTMENT OF PUBLIC V & BLDGS.	9:20:00 9:20:0	A2 A3 A4 45 20 20 20 20 20 20 20 20 20 20 20 20 20 2		FED. FORD DEV. NO. 4 ILL: DIS PROJECT TOTAL SHEET NO.

of the manufacturing the second

E A.I.RT.70

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

SECTION 82-3HVB

POPLAR STREET BRIDGE APPROACHES ROADWAY "B"

STRINGER AND END FLOOR BEAM SCHEDULE

DIVISION OF HIG

9.0.0 ROWY. 0.50 BEA 3 30,000 VATION Se Fiser Beam Geom Cons & 00000 BESEST OO SEST SEST 00% 2.64 97.25.25 90'52'16' 90'52'12' 90'52'05 89'52-20 90'28'57 97.33.00 97.33.00 20-23-23 20-22-41 8.25.6 8.25.6 - 3.25.6 90'00'27' 37'00'00' 90'28'0' 37'00'00' 37.17.17 34.47.47 36.74.74 36.74.74 36.71.75 90°22'41' \$3.50 \$0.00 89:5/-63 3500:00 4 00000 888 888 888 90,000 Š STATE OF ILLIA
DEPARTMENT OF PUBLIC WC . A BLDGS.
DIVISION OF HIGHWAYS FA.I.-70 82-3HVB ST.CLAIR 289 152 F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HV8 POPLAR STREET BRIDGE APPROACHES
ROADWAY "C" ROUTE NO. For Derail A. B and C see Sh No. 133 FLOOR BEAM SCHEDULE H. W. LOCHNER, INC. ENGINEERS CHICAGO, ILLINOIS SECTION COUNTY TOTAL S.EFT

THE RESERVE THE PROPERTY OF THE PARTY OF THE

STATE OF ILLINOIS DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS STRINGER AND END FLOOR BEAM SCHEDULE POPLAR STREET BRIDGE APPROACHES ROADWAY "C" F. A. I. RT. 70 ST. CLAIR CO. SECTION 82-3NVB
H. W. LOCHNER, INC. SHEET
ENGINEERS
CHICAGO, ILLINOIS 118 or 241 .58

iI				$\neg$	_,	T	T			i	+	+		L	_				בים
	67	6	777	, ()	C.	<u>,</u>	//3	112	111	Ó	6	6	17	67	3,5	27	13	27	5 u
: ' ! .	225						- !		-	32-0	16.37	22.50	0	Ç	000	00		350	7
!	Ç			,	-				-	80	\$7.1.1C 16.2	27.00.7%	033	100	, 6	7.6		7%	*
•	0.0	-							-	80		•	00	000	6	16			×
	0.0	-	!						-	ري دي د	<del>   </del>		000	7076	,6	14	-	6	ıç.
!	, O	-	1			_			-	80			0.0	200	6	16		7.6	2
:	2.634			-	-		I	-	2634	2.634			6.0.7	2 20		Ç	0.00	0.50	G
	35.55	010/-27	50.50	39:57:27	50.02.33	84:50:34	25:01-26	£9.57-27	95:02:33	09:58:34			10.00	20,5	000000	3000		2000	Ý
	00.00 CC	0/2/6		892/02	80.00	84.21.35	20,200	89.21-27	95:28:11	89:24-41			✝	7	300	200	3	8000	42
	0.000	-	_	+	2000	842135	202002	89:2:-27	9528-//	87.76-6			2000	2	200 M	35	·	00.00	6.3
i	4.70.00	3/5		37.7.5	8000	<del></del> 1			0023-//	۲	Ť		Ç Ç		20 27:27	3.6	3	0000	1
	. 1		4	311	300		-	Ψ.	+	1.	-	:		00:0/-2	20:57:50	3,6	3	10000	+

	<u> 67</u>	7,0	4//	'n		`.	1/2	//3	217	11.7	0/0	+ 19	+ 18	17	67	25	27	1.3	22	End Fl.	
!	525	-	• i					. !		-	32-0	1.50	-47.	ò	Ş	300	දූ ර		880	7	
	Ç		• •		•	•				-	80	-1K 126-	27.07.	69	76%	7.6	7.6		7-6	M	
	0				•					-	00			0.0	76%	6	76		6	×	
	0	-	• !		_					-	ပ်			å	76%	6	76		6	نز	
:	Ó		1				_			-	80			0.0	10%	6	76		7.6	2	R
	2.64	3	•	-	_			I	-	2634	2.634			2.634	100	10%	Ç	0.30	0.50	4	ROWY. C
	750,00	3	37º 57 27'	500	32:57:27	50.02-33	24:50:54	27:01-26	£9.57-27	95:02:33	04-38-34			9,-10-04	2000	2/1000	2000		aga a	Ą	
	مرس دا.	3. 7	87.27.09	0000	82.21.02	90,04	84.21.35	200200	89:21-27	11-92:56	89.76-41			1147.00	i i						
	200	3	80:27-09	00.304	80-21-02	2000	34.2.35	50.20.42	80:2:-21	1.900	34.76-			17.00 Ch	2 2 2	7/1000	10000		02,000	AJ	
i		7	80:27:09	8.30.4/	33:21:02	Т	i .	Т	T	+	14-17-10	200		الله الله		200		}	monday 00:000 100:00	A4	
		888	89:57:50		_	_	`-	5	_	÷	7	-	:	100	000000000000000000000000000000000000000	27.27	`	<u> </u>	20000	1	

TYPICAL END FLOOR BEAM ELEVATION	see Framing Plan.	76'2 Sin Conn & 14F)	X	)	(C) #55% M. See
TION	either on S Shown, or S For location 9 Plan.	5	Beam Con. A.	M. LEEND Floor Beam	FCD ROAD DIV. NO. 4 ILLINOIS PROVECT  (C2)

	*
Sche	See
dule.	* See End
	flocr
	6eom

×				()	ĺ
747	Į.	200		2006	1
1	246	26	2/2	1 / C	i g
1.4	ı	ò	0.24	27.78	000
-	11/11/6	0	15:1%	27:/5%	Ç
CF 30 .5.	11.1136	0	1503	8//3	8
39 23 42	40%	93%	02%	3000	ر 27
-	40%	2.6/	13/36	3608	5,5
	4.03	/9/	15.05	ر ارق ا	3
_	404	79:3%	5.24	CB4:0	Ç4
-	4.C.8	19.2	13/16	304%	c.ss
50.23.41	403	<u>/ب</u>	603	36.2	CZ2
ı	なららが	19:3/6	12.79/6	35//76	C3/
	403	79.2	12-63	35-92	S
•	408	15/	12636	£ 74	Š
89:29:23	16436	0	13.00	32.23	8
C9:28-16	16:US	0	500	200%	527
ch 27:05	16.2%	0	15.62	ري اي	ż
09.00	727	2007	。 う で	4016	2
03/6:/0	424	19:11%	00 F	4//-95	12.
1 7	953	19:0/76	3.82	39.9%	523
	42/2	2/2	3/0%	2,2.05	225
09:11:54	4.2%	200%	ر <b>د</b> . د	Ş	521
89.0.33]	4.7%	19/1/%	158%	ر 0,00	કે
89.15-07	40.20	2006	30	20/8	Š
89:07:55]	4.2/2	0./0	5.93	ي4⁄≎ق	Ç/8
39:00:40	4.23%	,9-/OS	13.50	39-94	(17
89:13:17	4.2%	200	500	0	2/6
89:00:50	4.200	19/1/9	15.93	39//8	દ
23.54/9	000	000	15:03	3000	C/A
	47%	3	S S	ġ	33
8	4.2.16	0///2/	.5 9% o	30/,35	<i>c/2</i> ]
38 4/3/	423	15000	2000	30,000	c//
  *	4240	0	14.94		$\hat{s}$
·	4.2%	0	14.8%	1,681	9
	4.2-10	0	14-7/16	0:87	G
00000	8,00	0	ن	20//6	7
8008	, 60-03	c	4.3	Š	93
8000	15-7-20	0	4.3	80.03	દ
*	/5.9	0	16.3	320	2
800	73.3	o	15.9	8	S
888	45	20.0	/S-9	000	2
,	<u>ن</u> د	200	200	36://	:
~/	Z	¢	×	_	3.5
	\$ \\ \tag{2}{\alpha} \\ \tag{2}{	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.0 43 0.0 43	200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	x y z z z z z z z z z z z z z z z z z z

	2066	9,60	20.8	36	0	0	0	19316	19-2	/-/	19:3%	19-2	.4./	19:5%	92	6	0	0	0	2005	0116	19:0/30	2/0/	200%	19:11%	2006	0./0	50.6	300	0//2	200	3		ر ک	20	200	0	0	1		SK	2 0	300	3,	c
	44%			l .		11-11/6	11.1136	400%	4.0%	4.038	400	4.0.8	403	200%	40.3	406	,000×	1656	16.2%	424	423		1 i			- 1		4	425	2.296	860	- 1	1		200	0,24	000	, O	Š.	27.7.2	10.0	ر ا ا		~	2
	64.20-51	*	木	*	80.34.19		CF 30 .7.	39.23'42	-		_	•	30.23.41	, <b>•</b> .	;•		. I	29.28.16	co 27 co."	89.35.52	67.6.70	97.07.60	09 16:55	09:11:54	89.0.3	89.15-07	89:07:55	39:00:40	B9:13:17	80:00:50	25.54 19	0000	36.50	14.2.2.2.2.		•	2000		3	88	<b>.</b>	888	33.		A
	89:20:51	0923-38		37.23:58"	*	*	*	89-23-92	-			•	84-23-42	37.75.00		00.00.00	•	X		ジジング		35.00			Ш,		35.36.27	69.43.36	873/00	9,00.00	80.00	89.30	87.45	200	20	0000		1	I		8	- 1	8 8 8 8 8	37.33	AZ
					<b>L</b>	<b>.</b>	L		_	-	-		_					_				••				_											<u>.</u>		•		_				
							682	c <i>3/</i>	$\hat{\mathscr{E}}$	5/3	5/8	5/7	c%	25	Z,	czs	772	:7/	czo	Ê	8	C'07	500	છ	cot	દ્ધ	cά	193	683	c59	c 58	<b>C57</b>	256	3	2	2	3 (		250	<i>e</i> \$2	248	-27	26	645	37. No.
							39.236	3006	33.0%	4000	وران کان	ري.	20.00	230%	28:35	13.2×	10 C	17.04	39:2%	100/	J8/0	\$250	320%	31-10%	6	36.7.7g	200°	20:02	25.84	29.7%	41.88	41.515	4:54	2017	1 1	01.6.10	0	٥ ا ا	6	₩0.0K	20:0%	296%	41-63%	4.10	7
							53/6	$\overline{}$	13.376	15.2%	10.100	т	П	$\overline{}$			I	ı	がもか			12.7	1	1	_	1			ì	04/36	6.533	.64%	0.30	660	0.5%	9,50	0 0	2	٥	16470				6.37	×
							1971/0	196%	35	1926	12:5	190'20	0	0	0		ŧ	1		ı			3.5	1		1	2000	0	0	0	27.00	4.00C	20·7 <b>6</b>	20//5	20.05	2,60%	20.75	307	و ئ	0	0	0	20.9%	20:0	ÿ
							4.1.16	4:1:16	4.1.0	4000	2,0%	200	.J43	13.3%	13:33/6	400%	4.0%	408	4.11.7	9.1.16	0.14	40.00	0.00	Τ-	2000	1	Ι.	19.5.4%	13:3%	3.24	4.434	4.49/6		4.4.4		4.43%	2434	2677	443	44.67	13-7	13-6-36	4-413/6	4.000	2
							84.73.00		872303	١.	1	09:23:43	1.		39:33-04		i		65.77.45°	-	40.77.10	1	(-)×		 	×	*	04:0/.00	-	84:11:00	84:20:42		20,70,42	97:25:0°		37.75	*	4	水	89-31-42		89-31-42	89:20:51	15:02:46	Ai
						T	07.07.40		69.23.03	_	Т	03-62-60	*	*	*	8723-57		042301	1	Т		01/27/01	3.3	045434	07.00		34-23-32	7	*	×	59-20-42		89:20:42	89:20:30		347050	52.25	•	0972.59	*	*	*	39:20:31	3.50.50	42
1_	١.		_	1_		1	1	<u>:</u> _	<u> </u>	il.	<u> </u>		<u>. T.</u>		1					'!_		<u>.</u>			Ì	*		1					١	V		F	1			1	١				

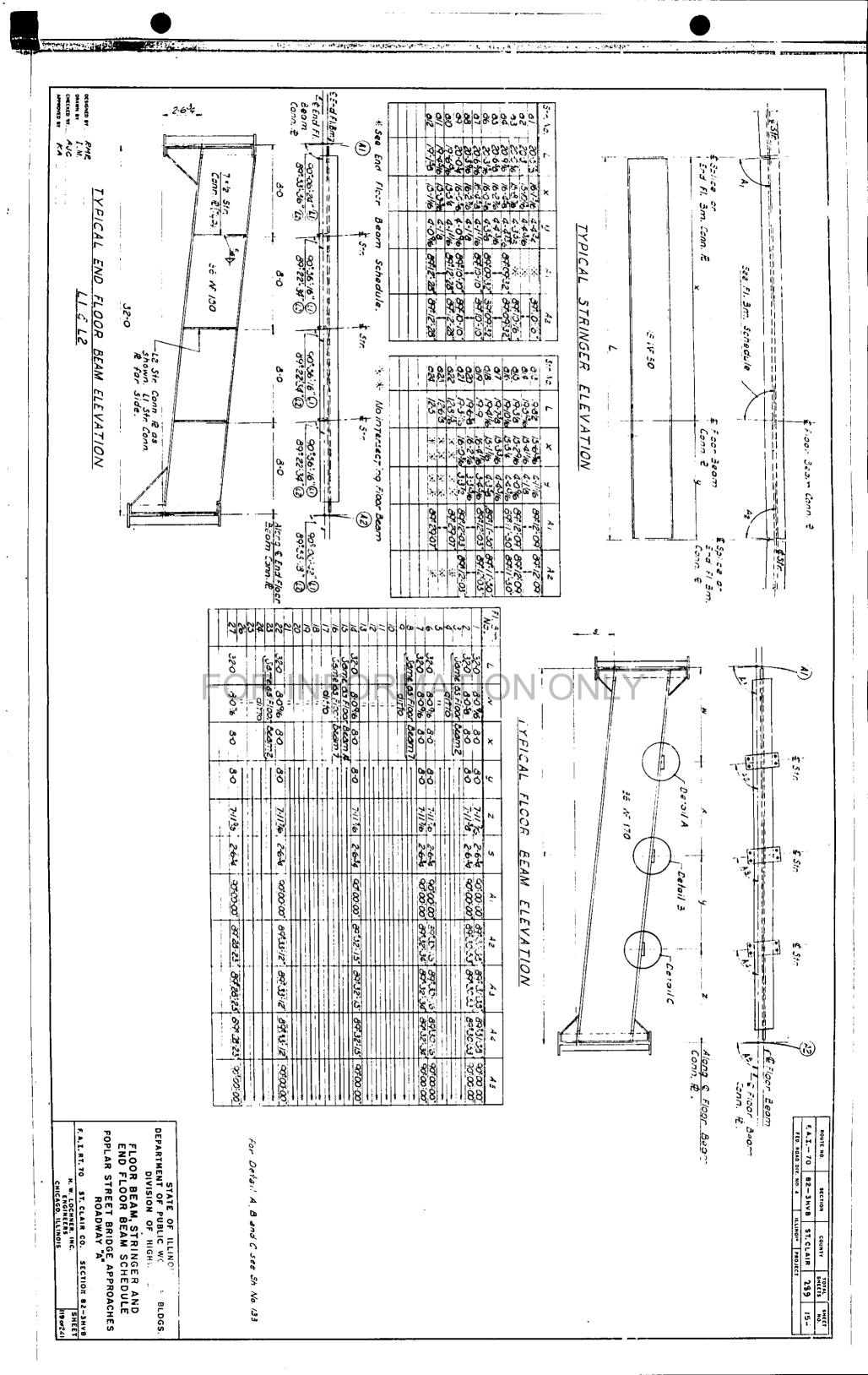
399% 382 /90%		5-94 Z	39:104 158%	40/26	39-94 15-69	CO/36 51	39-//8 /	رن 2006	ġ	0//	ا زېم	ó Ó	1841	0:8	Ş	3	8	20	8	400	36/	
10	13/0% B	5.93	15.8%	( ) ( ) ( ) ( ) ( ) ( )	0.00	ج			_	7	ą,	ò	_	0	1/6	//	Ò	Ó	Š O	<u></u>		
19.076	Ś		1		Ō,	4	598	ري دي:	S S	ر 40	303	14.9%	14.8%	14-7/16	4.3	4.3	4.3	200	<u>ن</u> 4	/ <u>5</u> .9	200	×
1	2	00%	1911%	7000	, C.C.	2000	1.1.6	20.07	, B	9//-0.	3.0.W	0	0	0	0	C	0	0	0	20.0	200	y
9.70	42/3	4.2%	4.236	4.2.2%	4.23%	429	4.29%	820	42%	4.25%	428	42 0	4.2%	4.2%	, 0,00,0	, Ø. Ø.	ر ن. بن ن	15.9	/3-3	43	<i>ξ.</i>	z
97.07.60	09/6:33	09:11:59	89.0.33	39:0:07	39:0040	899.13:17	89°00'50	25.54.19	89.10.05	S 30.5/	38 47.3/	×	<b>3•</b> ·	-	00000	80.00	8000	木	888	888	X	Aı
07.00	3927/3	32.212	04:37	62.29.0	29.43.36	87.70	89:00.36	80.00	800%	874578	0788	09.56%	000	888	永	i	भेर	0.30		8	. [7	AZ

	TYPICAL
ROWK. C	STRINGER
	ELEVATION

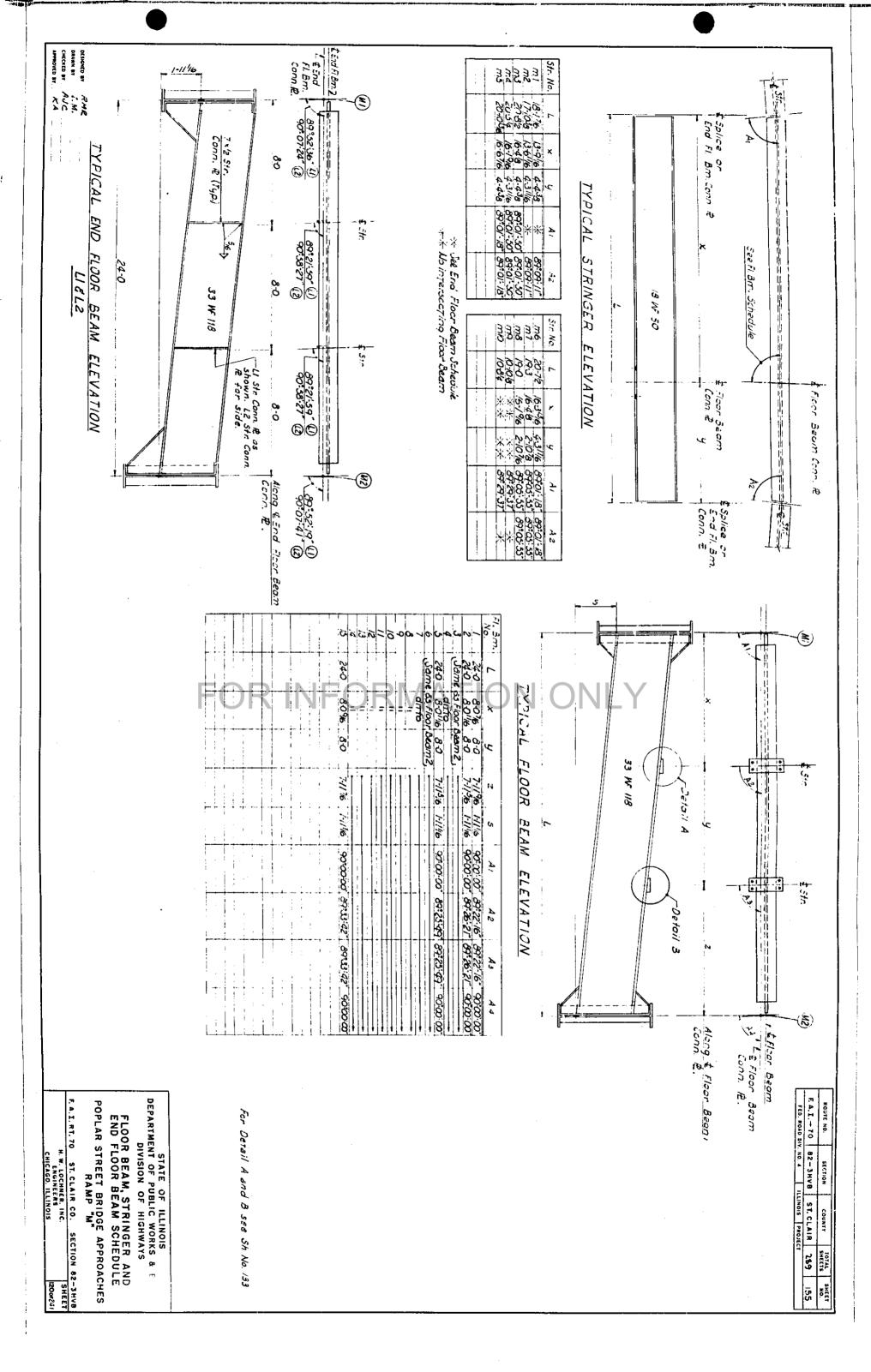
		gsplice or End Fl Bm.		) **
7	18 if 50	E Floor Beam	See A. 8m schedule Sh. No. 117	froor Beam Count
		 Espice or En	See 11.8m. Sched. Sh. No //7	 # 1500 beam com #

THE PARTY NAMED IN

F.A.I.-70 82-3HV8 ST. CLAIR 749 153



and milminulunium in the second



The state of the s

		1					
	able of		Moments	and	20	actions	75
		spans	309	39,	3/0 *		
		W	Moment	1	Ri	action	00
no tead	9.7	838 2002 F	.53520 39	30°5 70°5	2/er 8C8	89	
C600	Primary	0911	1300	2680	35	312	
1000	Secondary	23	26	53	io	6	
Live	Primary	1330	1282	1080	7/	:05	
6000	Secondary	21	22	20	/	2	
trocinz	ct.	261	243	241	13	26	
Contri	Centrifugal force	5.7	وج	37	1/2	Cs.	
Total		2532	270	4043	,30	454	
Section	Section Modulus	1930	930	0 Eč		-	
30	Dead Load	4.7	5	ŝ.S	* Design	sailaac nes	lies.
20	Live Load	4.1	ţ.,	3.0	3/30	S	75 BC5
37	*mpact	/3	7.5	2.8	27.0	307 0	ono Co
00	Total	S.8	Ç,	3.0	3000	שמחה שנט, נש,נוט	19,610
4	Section Medulus	<b>6</b> 7.5	ć7.5	108.0			
		-					

# 3-Span Continuous

			200	2775	36.60	Section
			.3.7	13.7	/2.8	0 0 Total
ord Stans CIZ thruCla	11/3	3/2 5	٤ /	1.2	1.0	an Impact
to spans 612 thrut.	25.5	10 Jps	5.0	5.7	5.2	Live Load
* Design poolies as	2	viseu *	12.4	6.9	6.6	Deod Load
_		-	3970	24.0	2310	Section Modulus
523	5,	195	5680	3536	2346	Total
4		2	53	52	47	Centrifugal Force
7	27	14	323	301	302	Impost
2		_ /	29	29		Load Secondary
/23	<u>~</u>	72	1460	1430	1290	Live Primary
7		2	75	30	33	Loss Secondary
360	L <sub>k</sub> ,	104	3740	16 90	1650	Sead Primary
99	Pier 329	52E Jeic	2/er 829	.55 <u>0</u> c0 .529	.4 Soon 328	_ccation
tion	a c	8 €	1	Momen	W	
		B30 *	thru	828	Spans	
Reactions	O C		8 000	Moments	!	Table of

## Continuous

	100	9	70		Seci	Total	Cen	1.	200	1 VQ	100	000	207			
Modulus	Total	Impost	Se Live Lood	Seod Load	Section Moduks	"	Centrifugal force	irpact	Load Secondary	Primory	Load Secondary	Dead Stimory	location			Table
<i>3</i> 1.6	14.1	1.2	5.4	7.5	2420	3643	62	310	27	1360	37	1360	.45,500 C18		رک	of 1
87.6	/3./	1.1	5.4	6.6	2420	33 <b>56</b>	49	277	27	1360	ээ	1650	.45,500 .55,500 C19 C19	Momen	Spans C	Moments
:32	21.9	1.2	5.9	4.3	4800	6300	65	382	18	1790	45	4500	Cig Cig	001	CIB thru	
196	23.7	1.3	ó.6	/5.J	5/20	200	72	404	20	2000	4.9	2800	C20		* 125 n.	and k
		,,,	2/50	* Design	1	209	J.	17	2	74	2	///	Cig	Re	*	Reactions
		7770	70		-	565	Ů,	23	1	134		395	27.62	ac1;		ions
			Soons	applies		574	5	28		139		402	5.25 5.51	100		

Centrifugal force

60

67

357 378

83

29

t,

Section Modules

2260

2260 4300 4300

3.4 1 14.3

66,

550

CIVE LOOD

Seod Lood

6.6

5.0 5.0

5.4

0.0

+ Jesign opplies viso to Spars Bi9 thru 322 and Spars B23 thru 326.

Total

Dead primary

4060 4340

103

378

384

œ

Location

.6 Span | 5 Span | 3, e r 8/5 | 3/6 | 3/6

317

212C

Tobie

Spans 315 thru

818 \*

Reaction

Reactions

Moment

1-Span Continuous Moments and

tive Primary FLOOD SECOULOUS

cod Secondary

:280 25

25 16 13

73

62 œ

134

#### 4-Span Continuous

FA.I.-70 82-3HVB ST. CLAIR 259

SHEET NO

Table	Table of Moments and	10me	nts o		Reactions	ons	
	ری	Soore E	BC1 thru	· 364	4		
		Moment	e 0 +		χe	Reaction	00
Location	.4Span BCI	45000 55000 FIEL BC2	302	D, er 363	138 1876	828 2914	€38 J 314
Decd Filmory	690	1510	1100	4400	. 05	332	383
Load Secondary		-	i			_	
Lve Primary	1250	1270	1630	1830	73	129	133
Load Secondary		İ					
Impact	288	260	356	373	17	28	27
Centrifugal force			1	İ		1	
Total	3228	30.00	6036	6623	195	530	5-19
Section Modulus 2090	2050	0530	3970 2000	4650	1	,	

Moments in Foot-Kips Reactions in K.ps Section Modulus - In3

### 4-Span Continuous

0.00	4		1				
716			7	2/	22	22	15/1/e 100d
			75	72	9/	34	God Load
	1		7920	7920	3480	3480	Section Modulus
7//	505	237	11618	11,122	4521	5218	Total
Ü	/5	7	280	257	/63	/66	Centrifugal force
30	30	72	546	538	317	370	Impact
		ſ.	84	93	56	100	Load Secondary
/67	161	74	3010	2750	1740	1730	Live Primary
1	ı	6	210	246	79	157	Lood Secondary
299	497	132	7488	7238	2466	2695	Dead Frimary
427	A 26	D, er 125	21er	2,87 426		.45pan .5 5,5cn 4 25   A 26	Location
0 0	action	K 0		e n t	Momen		
		28	hru A	A 25 1	Spans A25 thru A28	حري	
	íons	Reactions	and R		cf Moments	cf 1	Table
				3	0,000		

	560	110	Uı	30
POPLAR STREET BRIDGE APPROACHES ROADWAYS "A", "B" AND "C"  F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HV8 H. W. LOCHNER, INC. ENGINEERS. CHICAGO. ILLINOIS R220/241	STRESS TABLES	. DIVISION OF HIGHWAYS	DEPARTMENT OF PUBLIC WOS BLDGS.	STATE OF ILLINO

raline load

U,

220

560

DESCRIB BY AJA
CHECKED BY AJA
APPROVED BY AJA

A LEAN

SAN

FA I.-7C 82-34YB ST. CLAIR 287 158

	Tol	od.	. e ina		Sec	70	197	27	700	Live	1000	Dead	20			
Modulus	0 70:01	od Impocr	Live Lood	Desa Load	Section Modulus	To:01	Centrifugai force	Impact	Load Secondary	e Primary	ad Secondary	od Primary	Location			
/92	19.3	1.6	7.5	102	3/00	1233	55	335	30	1520	43	2250	.455an			
192	21.0	1.5	7.5	12.0	3100	4381	57	306	31	1560	50	2250 2377	.5 Span C27			
144	12.8	1.3	6.0	5.5	3100 3100 2370	2762	45	267	25	1250	24	1151	.55pan			
144	15.7	2.3	6.0	84	2370	3222	46	268	25	1260	32	1591	.5 Span	M c		oble
144	14.5	1.4	5.9	7.2	2370	3163	44	291	24	12:00	30	1554	.5 Span .5 Span .6 Span .6 C27 .628 .629 .630	Moment	Spans	of M
324	26.4	1.4	6.7	18.3	5210	7655	70	398	36	1920	105	5124	CZI	*		Moments
324	23.2	1.3	6.5	15.4	5210	6842	62	350	34	1710	92	4594	C28		C26 th	ł
264	18.0	1.2	5.7	11.1	4320	5599	59	348	33	1640	69	3450	5/65		thru C30	and
264	19.8	1.1	5.2	13.5	4320	5748	54	344	30	1532	7.4	3714	C30		30	ROOC
					+	217	Ç	16	2	N.	2	120	CZ6			Reactions
					_	622	5	29	J.	14!	و	435	C27		ĺ	
10		1			1	573	5	29	Ġ	140	00	333	Pier C28	Reo		
-		<b>/</b>	N		) –	509	Ų,	28	ن	/3/	7	335	5161	ction		
					-	542	ر د	29	ß	128	7	370	0.00 C 30			
					ı	176	2	/3	`	6/	2	97	Abut C31			

Section Vodulus	50 Total	and Impact	29 Live Loga	Seed Load	Section Modulis	Total	Centrifuçal Force	Impact	Load Secondary	Live Primary	Load Secondary	Cead Primary	Location		55,	Table of M
94.5	14.3	<u>.</u>	3.6	7.4	2390	3686	5/	320	28	1400	37	.850	C 15	1.1	375 C	Moments
245	, 4.5	1.2	5.7	7.6	2590	3742	52	294	28	1430	38	,900	15000 .53000 115   116	0721	CIS Thru	
162	20	0	5	13	425C	6351	3.9	306	32	1630	34	4200	C/82	2.	CU C17	ond &
						201	0	17	,	75	2	110	( ) ( ) ( )	Reac	7	Reactions
					1	568	4	28	C	/3/	o	380	7,2, C'6	tion		ions

ı	
ı	
ı	
ı	
ı	
1	
Į	
1	S
1	•
1	(~
	ă
	Ď
	3
	-2
	1
	0,
	-
	3
	•
	~.
	3
ł	<b>C</b>
	_
	0
ı	r
	<i>U</i> S
	3
ı	
۱	
ı	
ı	
ı	
۱	
ı	

MATIOI

Τ					,0010	07 %	moments	ł	ona	Keactions	0	75	77.5	7.5	773
						S	Spans	511 77	Ξ.	.u SI	SII Thru SIS	.u S15	.u S15	u S15	u S15
					, W.	oment	7 \$							Reac	Reaction
		.48227 811	.555000 572	1.5 Spon S/3	5 Span	.6 3,201 S /5	5.60	5.0		P/er S/5	PIES PIES		5/6 3/6	SIG SIO SII SIZ	SIG SIG SIG
٥٥٥	Jead Primary	<i>570</i>	1490	1440	,490	/670	3920	3960	-	3960	3960 3920	0 3920	0 3920	0 3920 93	0 3920 93 341 343
1000	d Secondary	110	125	151	125	./0	99	20		40	40 39	_	<i>3</i> 9	<i>39 5</i>	<i>39 5</i>
LIVE	Primary	875	890	975	390	375	1165	1290		1230		0651	1290 65	1290 65 48	1290 65 48 88
700	Load Secondary	50	75	92	Cat.	85	.2	٤/		٤/ ا	13 /2		/2	/2 2	/2 2
3	Impact	210	793	2,2	183	0.0	203	260		250	200 243		243	243 10	243 10 19
Cen	Centrifugal force	79	80	88	33	79	105	1/6		116	116 ,05		,05	,05 4	105 4 3
70101	01	₹ 002	2953	29/8	2553	3 002	5433	5679		5679	5679 5489	-	5489	5489 ,62	5489 ,62 456
160	Section Modulus	2,90	2190	2/90	2190	2190	4373	2070		070L	1070 4070		4070	4070 -	4070 -
	Dead Load	38	<i>'8.0</i>	17.4	13.0	20.2	39.0	40.0		000	200 39.0				
j e ing	LIVE LOOD	/0. <b>6</b>	10.3	<i>''</i> .₿	108	.0.6	20	0.81		13.0	13.0 12.0				
r q o d	ad Impoct	2.5	23	2.6	23	2.5	2.5	2.6		25		5	5	5	5
Tc L <b>0</b>	0:0/	33.3	3/./	3.3	31	£.££	53.5	55.6		55.6	55.6 53.5	<u>(1)</u>	<u>(1)</u>	<u>(1)</u>	<u>(1)</u>

Modulus	0 0 70101	C a in pact	) S - ive 1000	Jean Lood	Section Modulus	510//	Centrifugal force	Impact	wood beconsory	Live Primary	Load Secondary	Decd Frmory	Location		30	Toble of 1
121	390	3.0	13.5	225	2200	2949	106	2/4	54	508	95	532	.4 Spcn W 4	M	ŝpans	Moments
121	38.0	2.7	/3.3	220	2200	2703	104	.80	22	330	37	1430	.535an <b>M5</b>	Moment	M4 :hru	
242	58.5	20	136	420	4243	5563	132	200	37	720	127	ડેઈ છે.)	7121	7 f	-U M6	and .
					1	167	Q	**	Ç.	7.63	ý,	لين	7,0,	₹000		Reactions
						455	0	18	1	95	١	342	Pier	7/37		ions

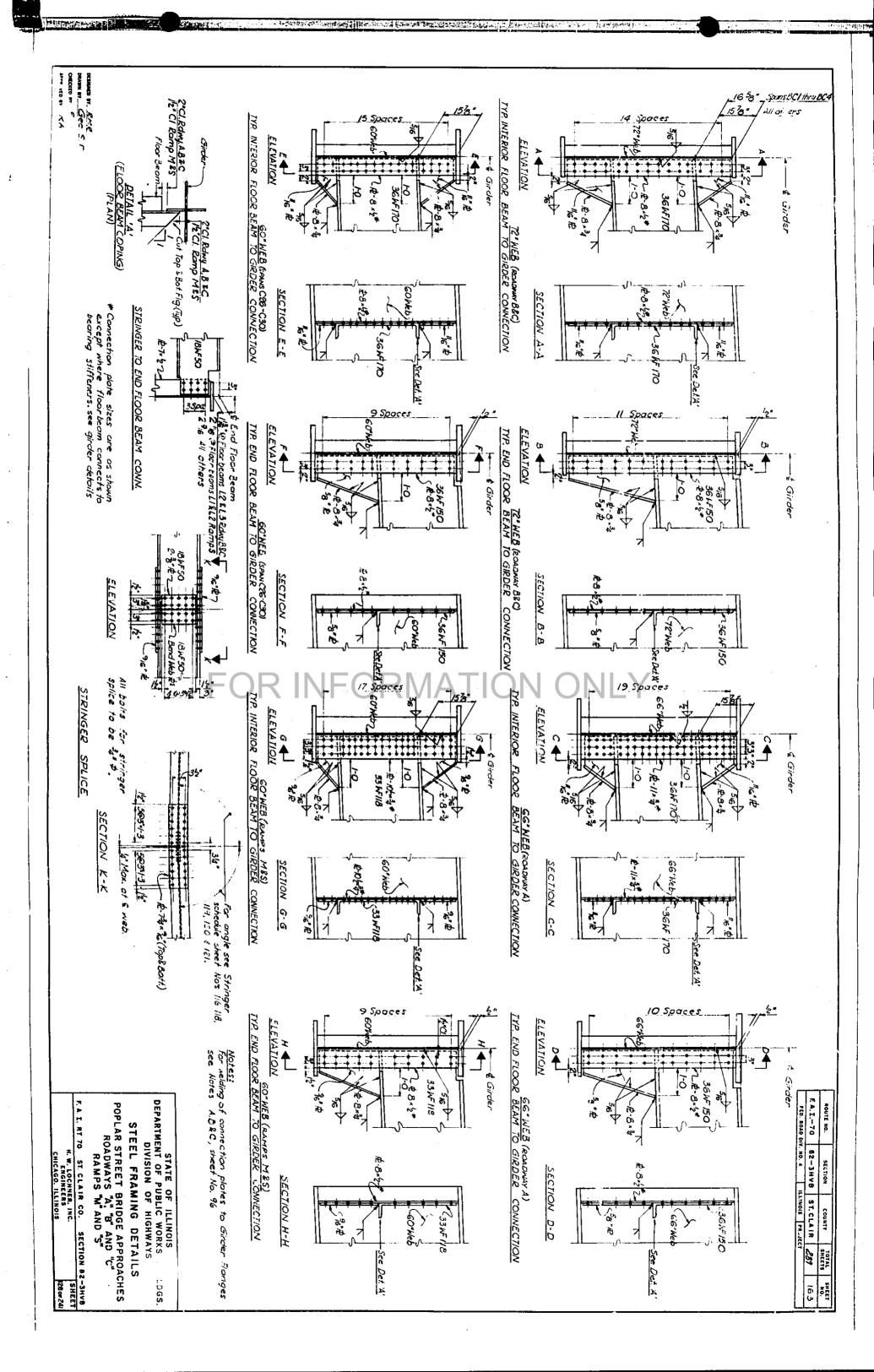
Woments in Foot-Kips Reactions in Kips Section Modulus - In.3

DESIGNED BY AJA
DRAWN BY JH
CHECKED BY AJA
APPROVED BY KA

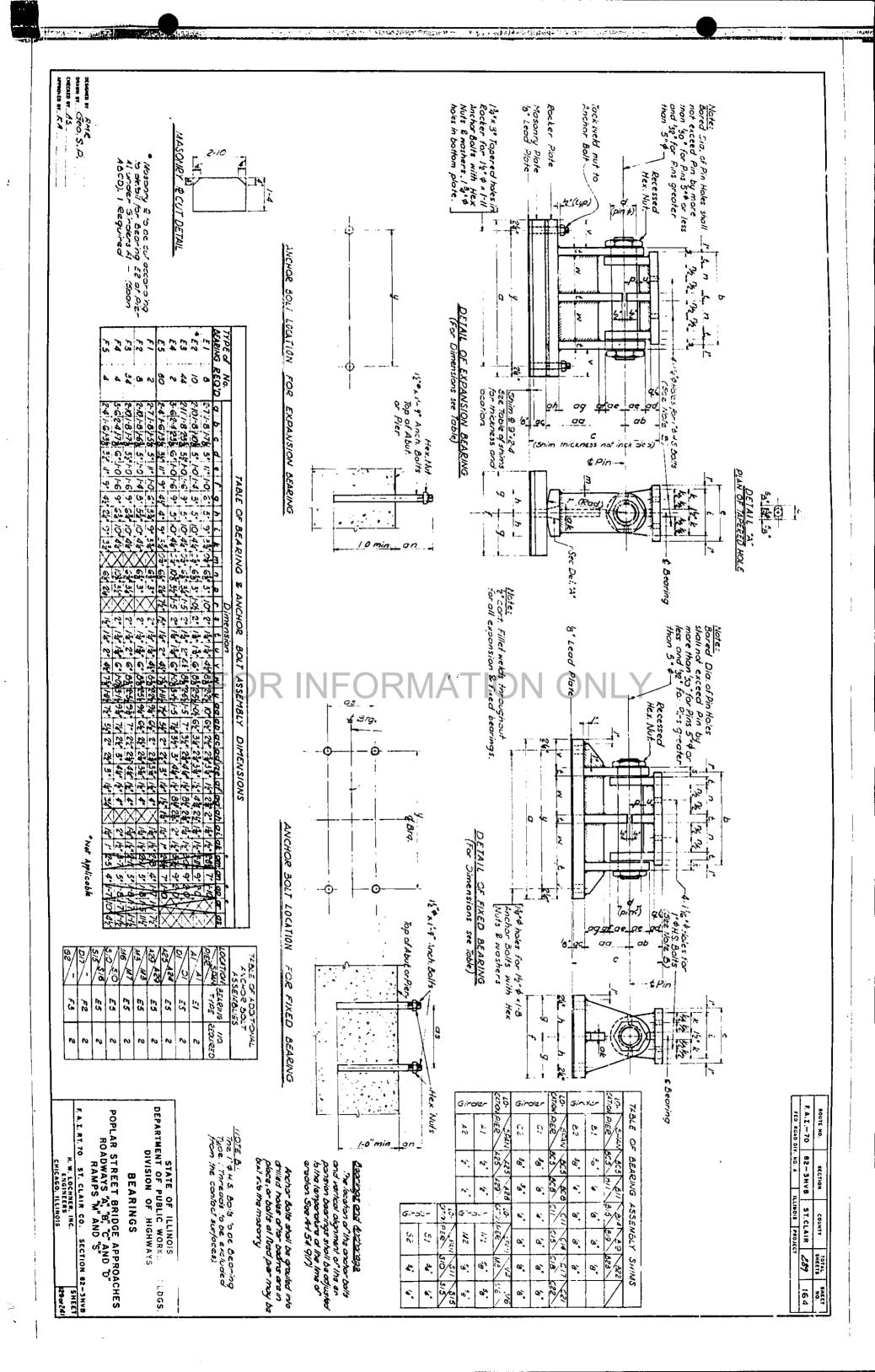
STATE OF ILLINO!"
DEPARTMENT OF PUBLIC WO!
DIVISION OF HIGHWA: 8 BLDGS.

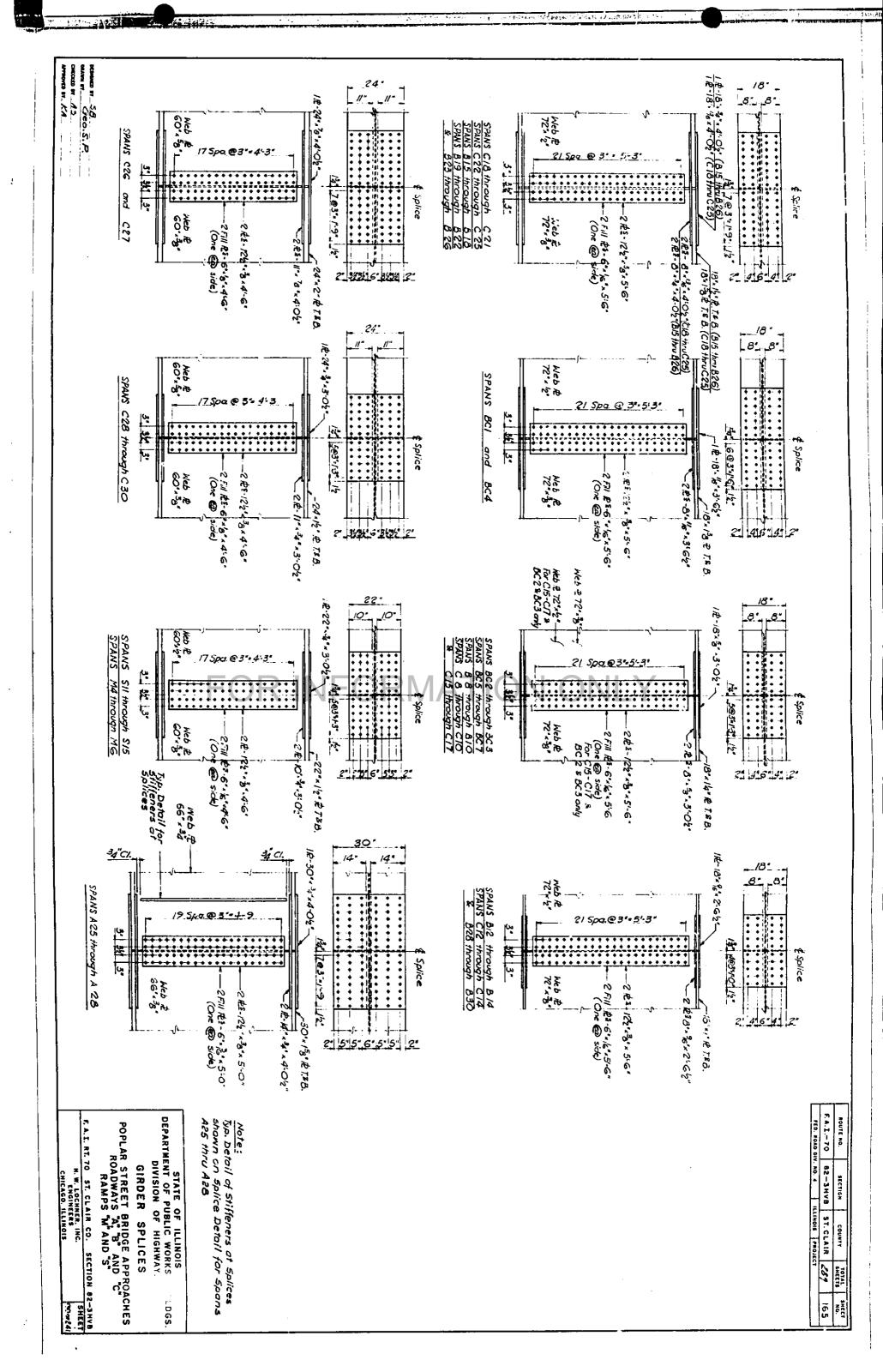
POPLAR STREET BRIDGE APPROACHES ROADWAY "C" AND RAMPS "M" 8 "S" STRESS TABLES

FAIRT, 70 ST. CLAIR CO.
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS SECTION 82-3HVB 123 or £41

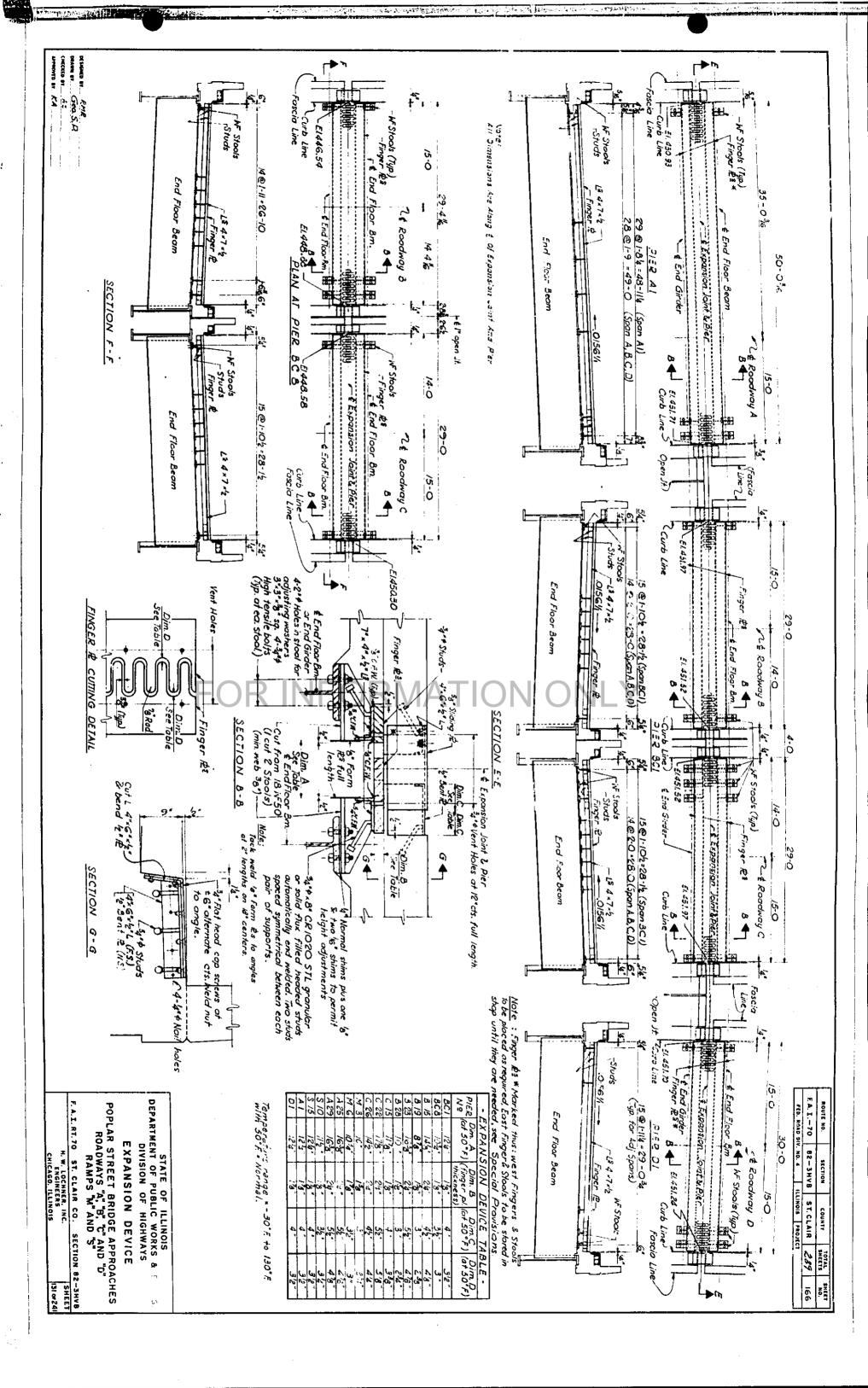


THE RESERVE THE PROPERTY OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLU

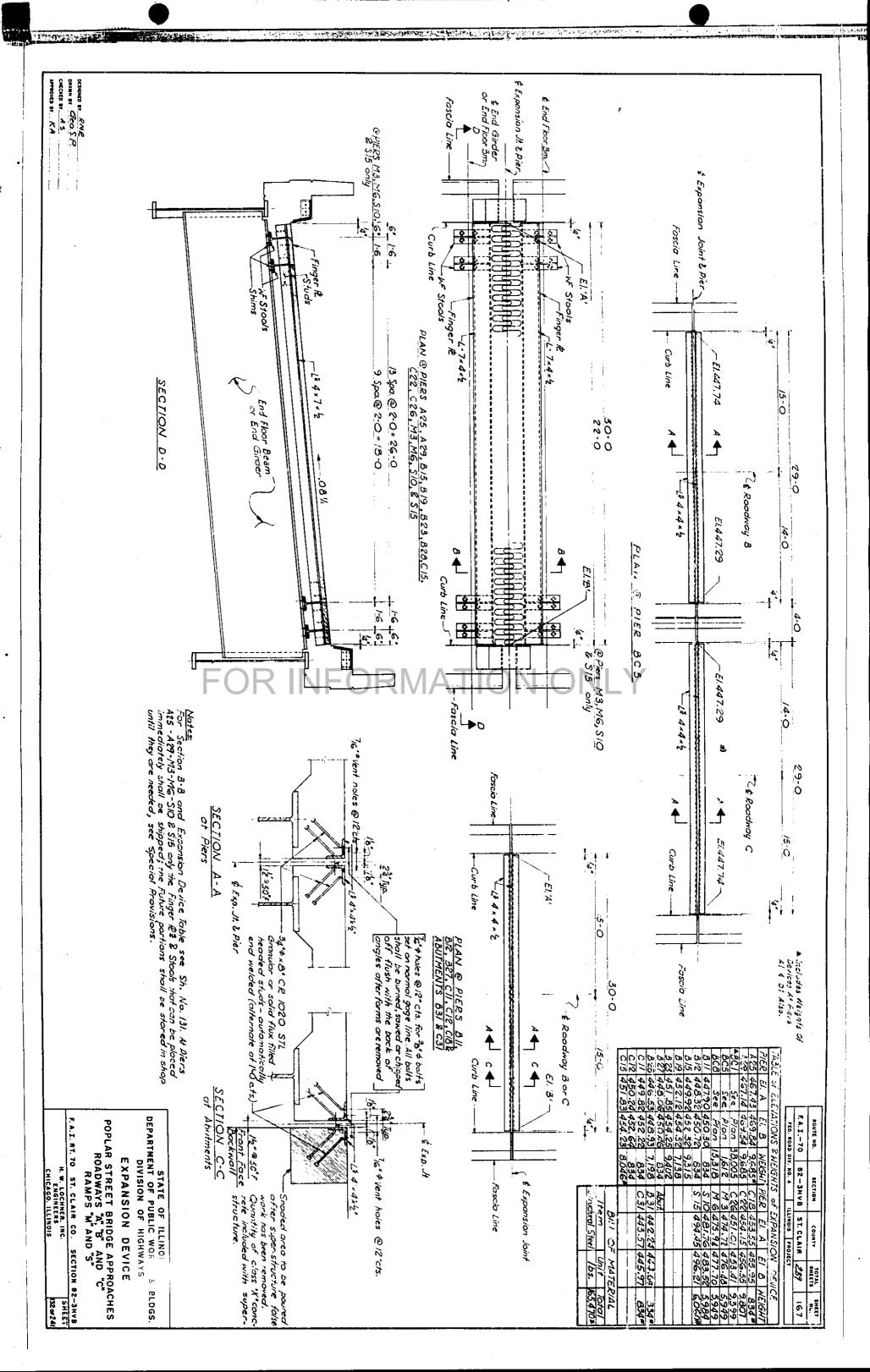




alminimulini



initialization partialization



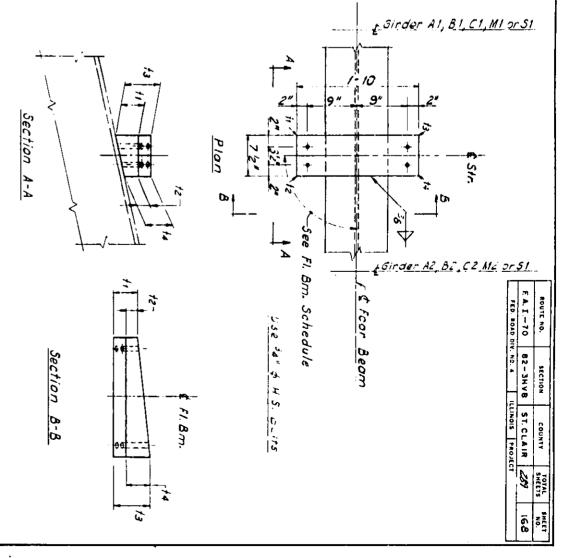
r		_	 				_			_				
					25 TARU 27	21 Thru 24	17 Thru 20	3 Thru 16	9 Thru 12	3 Thru 8	1 Thru 4		f/ Bm. No	
					15,6	à			0	70	9	11		١.
					196	176	19.6	14	06	9,	<i>'3</i> '6	42	Deto	ROSOWAY
					56	6,7	2	50		à	13/6	13	Detail A	0 %
					5/6	116	1'8	116	186	176	1'2	14		7
					L						53%	1.1		1
					-		-	_			20 00	12	Deta	S
	_			_					L		Same os detoil A	11 12 13 14	Detail B	A SHIMS
L		L		L						L				S
		L		_						L	Sense as detail	:	_	
	L	L			-		$\vdash$	-	L	L	8 03	11 12 13	Detail C	
							L.				2210	13	0	
	L	L					L				14	16.4		

			/24	121	115	109	50,	9	94	88	827	79	E)	33	32	3/	8	29	23	27	26	25	24	23	22	19	13	7	-		2	
			24 Thru 138	Thru 123	Thru 120	109 Thru 114	.03 Thru 108	100 Thru 102	94 Thru 99	88 Thru 93	hru 87	79Thru 8I	34 Thru 78													Thru 21	Thrul8	Thru 17	Thru 6		ðm. No.	
			90/	/30	/ 0	3,	15%	12	14	14	/3%	13,6	13/6	14	13/6	/ 3/00	à.	1/8	1'8	16	116	~	1	15/6	'5/6	13/6	8	,	1/8	11		
			,	, u	*	3	ð,	ő	š*	Š	o ·	3,6	<b>6</b>	š	ď.	ž	3	13,6	13,6	œ,	8	·5 <sub>6</sub> 6	' <sup>5</sup> /6	'5 <sub>/6</sub>		15/6	1	1'8	14	12	Detail	RO
			/'/6	6	/8	8'1	13,6	34	ù	14	14	15%	158	13/6	, j	1'8	0	11/6	116	1	1	5,6	15/6	15/6	$\theta_{\ell}$	5,6	β	P.E	85	13	il A	OAOWA
	$\perp$		2	2′2	2,	<b>%</b>	9,6	*	8	58	"6	116	<b>6</b>	O).	50	<b>5</b> ~	16	34	3	′3,6	,3 <sub>6</sub> ,	ъ	ъ	9,	'56	116	1	78	7	10		
				_									Some	136	13,6	1 %	1'8	1'4	116	16	1	1	,5 <sub>,6</sub>	.5,6	B				Some	11	۴.	× 8
			-										Same as detail	9	1,6	8	30	3/2	/3,6	, J,6	ъ	'в	<sup>7</sup> 8	₩.	9/5,	4			2050	12	Detail	
_	_					_							e:0/	14	9,6	13,6	6,	/6	146	146	1	1	1	3,6	3,6				as detail	13	;; <b>o</b>	SHIMS
													Δ	1,6	<b>5</b> 3	y,	2	ţ.	'3,6	136	70	78	.5,6	.56	1				Α	14		3
							_						Same	13,6	/6	6,7	1'8	116	1'16	1	1	9,5,	7,51	Q	8,				Sam	11	,	
		•	-			1	1				_			85	95	9	7,1	PE	PE	9,E/	9,61	9,61	9	ď	9,2,	-		_	2 05	12	Detail	
													os detail	1'4	114	/3/6	13/6	0,7	//8	11/16	9,1	11/6	1	/	5/6				Same as Setail	13	1 6	
													- 1	<b>₹</b>	<b>4</b> (4	<b>#</b>	, L	9,6	13,6	9	76	3,6	15,6	/	/	П			1 4	10		

		122 Thru 146	118 Thru121	115 Thru.:7	109Thru114	i33Th:-ui06	97 Thru 102	94 Thru 96	88 Thru 93	82 Thru87	76 ThruBI	3/ 1,20 75		K	34	33	32	31	30	38	22 Thru 28	19 Thru 21	13 Thru 18	7 7hru 12	1 Thru &		FI. Bm. No.	
		41	/ 30	138	156	156	15,6	ķ.	1	/3/6	/3/6	13,6	13,4	1'6	1'8	1'16	_	~	15%	9,0	16.	2	^	1'8	1'4	11	•	, , , , ,
		3,6	*3	34	₽¢r.	8	9,	<u>م</u> ري	œ	58	3,6	4	3,0	8	5 <b>8</b>	58	8"	8,	7.0	/3 <sub>/6</sub>	13	7,61	œ,	1	118	24	Detail	0
		14	1'8	18	/8	13,6	13/6	/3 &	14	14	15,6	120	126	14	1'4	1.4	1%	/ 3/6	1/8	16	1/6	1/6	/	8	er <sub>c</sub> s.	13	i1 A	DW
	,	5	2	2	مين	9,6	60	o <sub>t</sub> s	o,	ě.	4,2	8/1	8.	**	3	نة 15	œ	o '	15	<b>3</b> (3)	15	15/6	ъ	34	58	14		AY
												Same	1'8	18	11/6	1	1	<i>1</i> 6	برو	3					Same	11		C
		-									_	25	3,6	9	3/6	58	Ś	16	#6	4	-		i	-	950	12	Detail	S,
												Jotoil	15/6	15%	/4	14	14	13/6	13/6	1/8					as detail	13	111 B	HIM
												A	3	4.0	13/6	78	02	15/6	56	/					4	14	3	S
				-					L			Same	1'3	146	11/16	/	, ž	15	8	o:					Same	14	,	
		-			-						_	20	2,	3%	%	80	بان.	Š	16	<b>1</b> 2	-				S	12	Detail	
												oetoil	/3	15,6	15%	15/6	14	1'4	/3/6	/iż					detail	13	11 6	
												Δ	Į,	13,6	136	78	15,	16	_	,			Ì		4	14		

	13 Thru 15 12 119 34 13	13.6 11.6	7 Thru 9 "6 14 38 13	4 Thru 6 30 138 12 18	1 70-3 78 176 76 1	11 12 13	Fl. 3m. No. Detail A	RAMP M SHIMS
	1/2	3,6	ó	7.	76	1,		211
	1'3	13.6	1'4	. 38	176	12	Deta	D,
		11/16	33	T-	7,6	13	// A	V
	133	156	13,6	1'8	/	10		IHIS
					Son	11	4	NS
E	1				Sange as detai	12	Detail B	1
					de la	13	11 B	
					1/ 1	14		

	25 Thru 27	22 Thru 24	19 Thru 21	.6 inru 13	13 Thru 15	10 Thru 12	7 Thru 9	4 Thru 6	1 7000 3		Fl. Bm. No.	D	
	34	36	78	9,	•	1'8	136	13,6	13,6	*		AM	
	15%	139	1/2	196	158	1116	1:4		136		Defail 4	D	
Π	8	34	Śθ	3,6	12	36	9	2	9,	,,	11 4	RAMP S SHIMS	
	138	15,6	114	13/6	1/6	-	5,5	Ś	3	14		WH	
									Sam	11		3.1	
	*							F	6 05	12	Deta	R	
									Same as detail	13	Detail B		
									7	*			

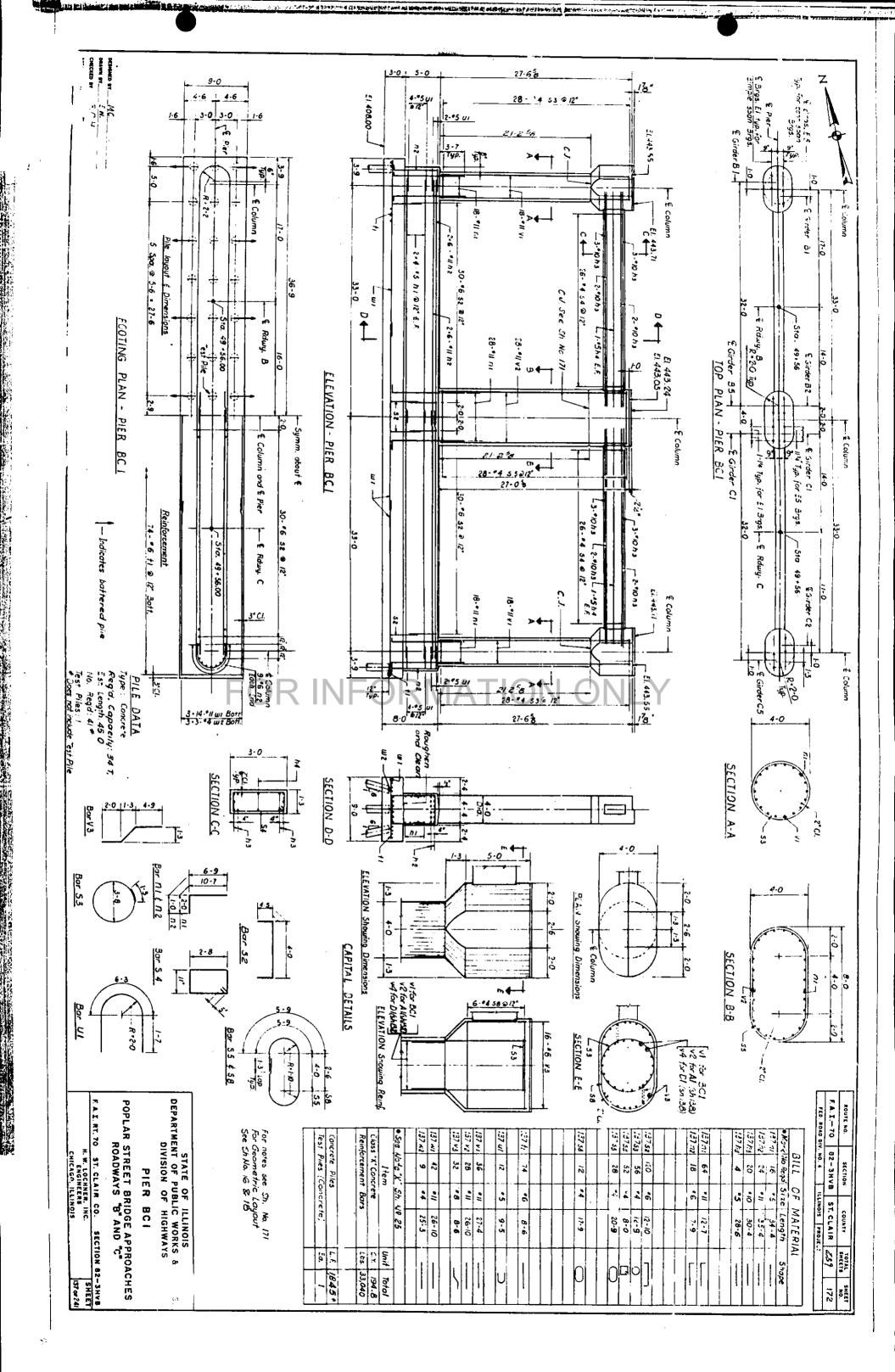


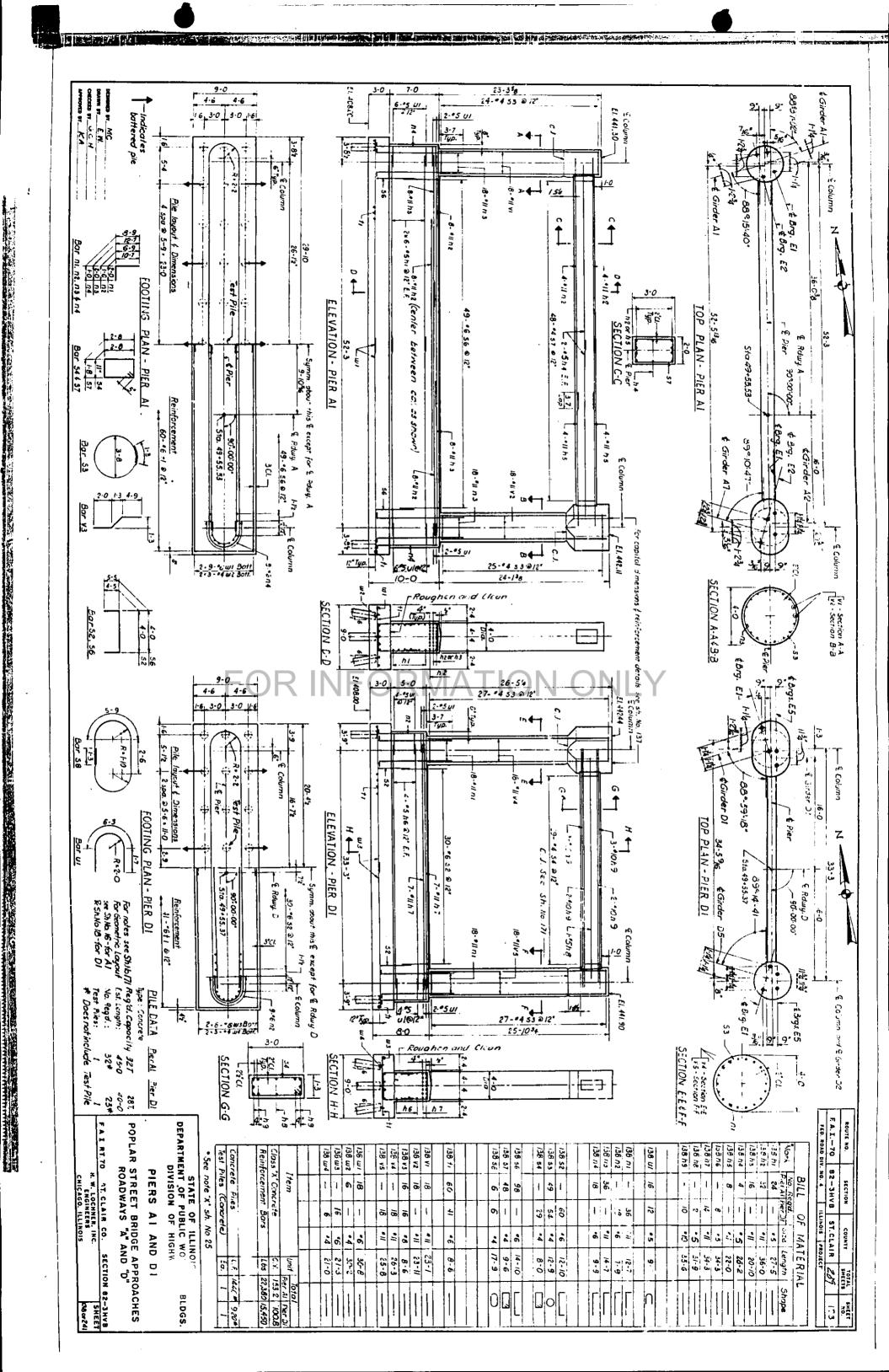
DETAIL A, B, Or C Shim shown at Floor Beam 31 Other shims are similar shown at Floor Beam 37 thru 75 Shims are similar

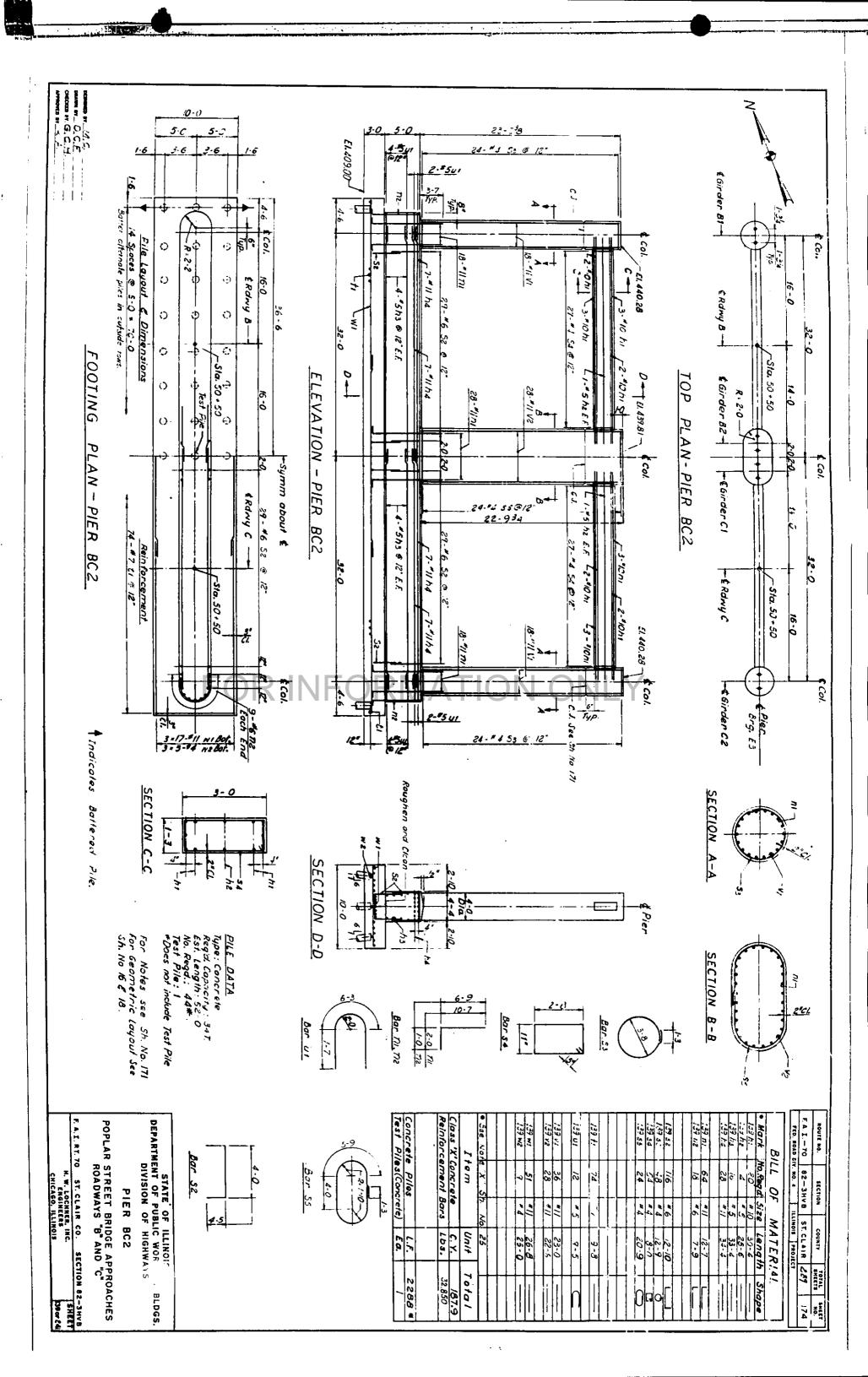
NOTE
For location of Detail A. B or C
see Floor Beam Schedule.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & B...
DIVISION OF HIGHWAYS F.A.1.RY. 70 ST. CLAIR CO.

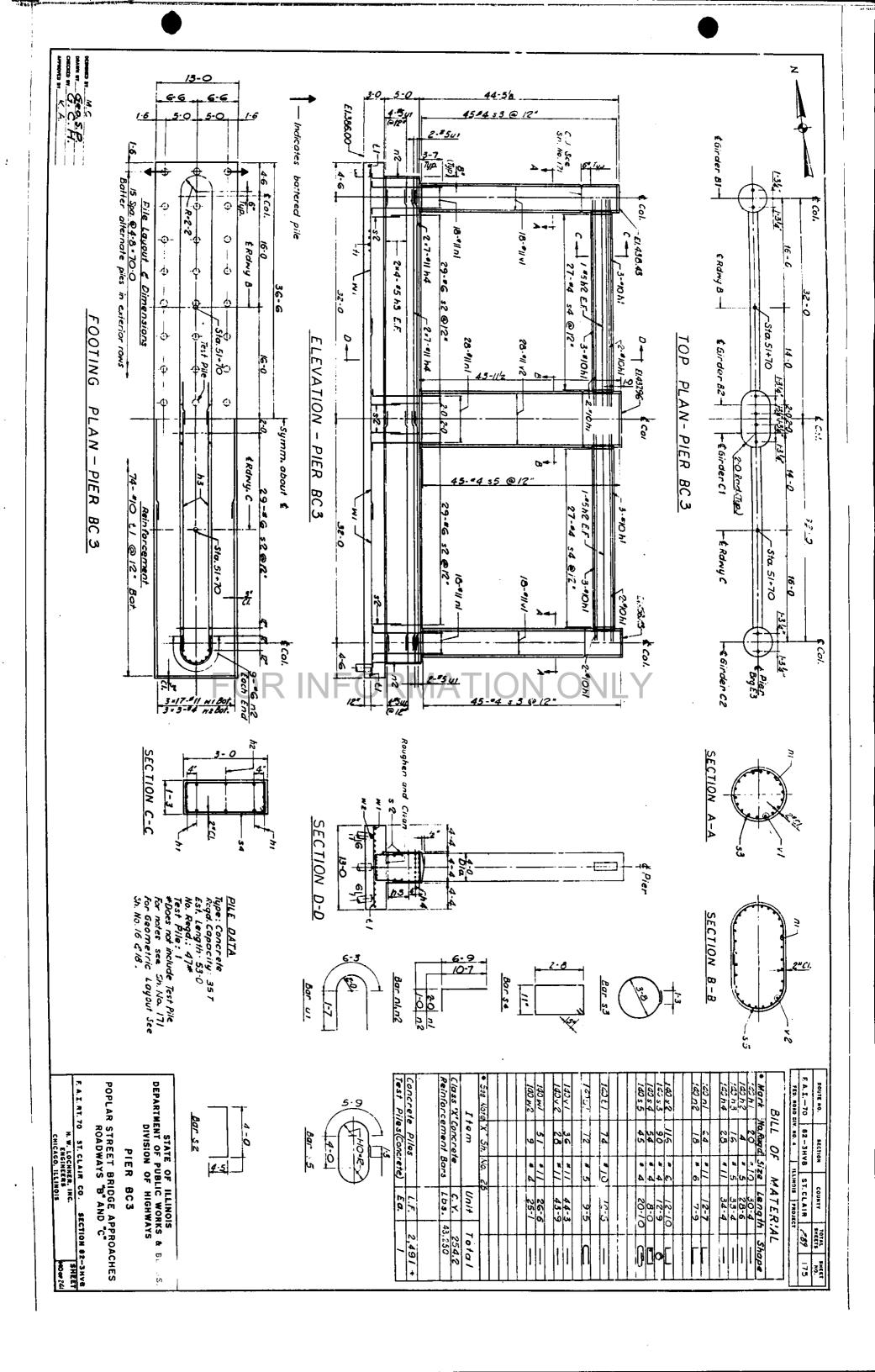
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO ILLINOIS POPLAR STREET BRIDGE APPROACHES ROADWAYS "A" "S" AND "C" RAMPS "M" AND "S" STRINGER SHIMS SECTION 82-3HV8
SHEET







Control of the Contro



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

SHEET NO.

KT F . 2 3 1 The Torre that the belong of the  $\otimes$ 8 5 <u>5.</u> (`) <u>نې</u> ، **لا** 

FUNI

CAPACITY: 35 Tres

EST LENOTH: 46'
No REGULEED: 42

S Ensure Fue

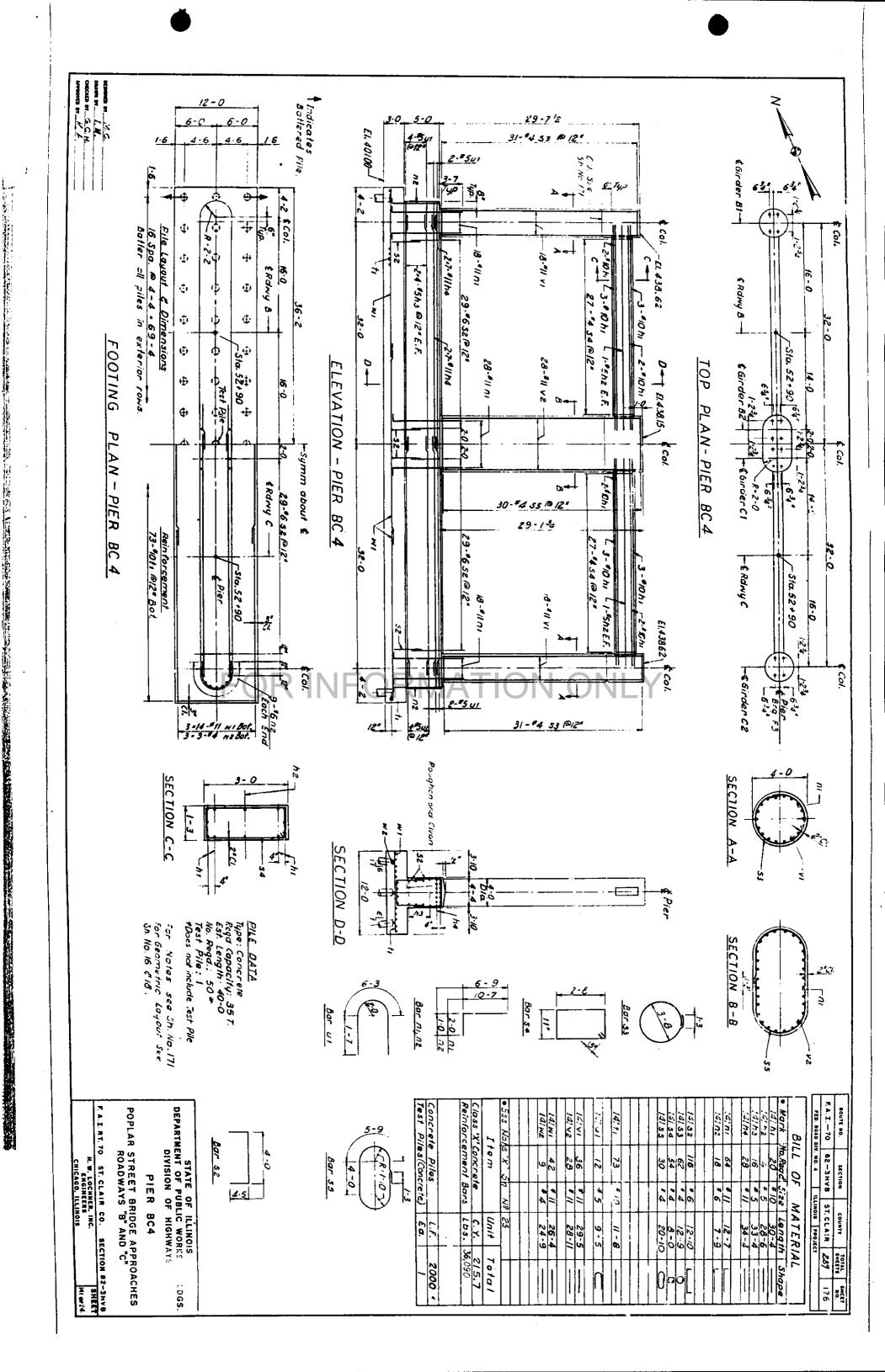
() New Fix

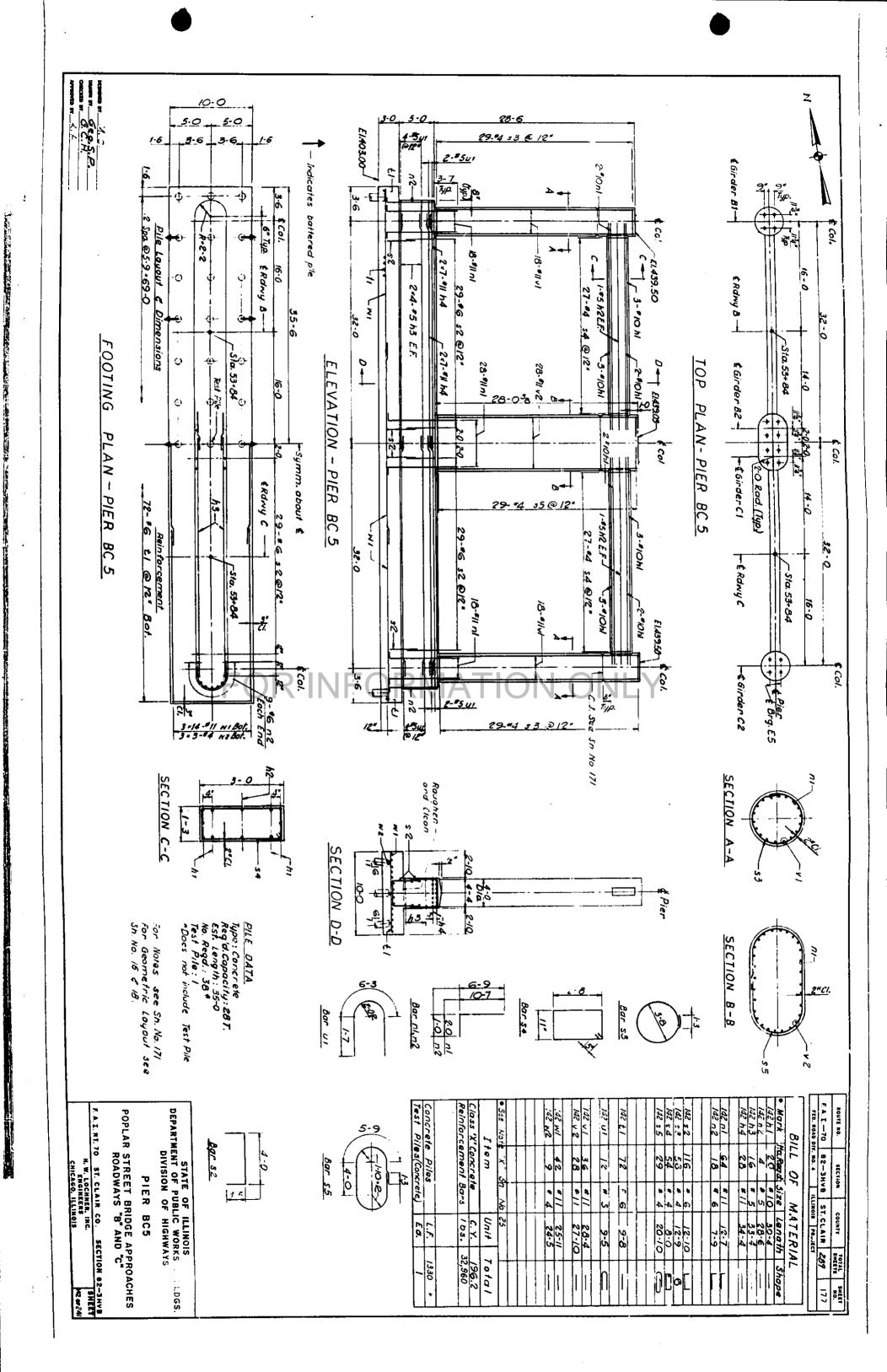
CESEND

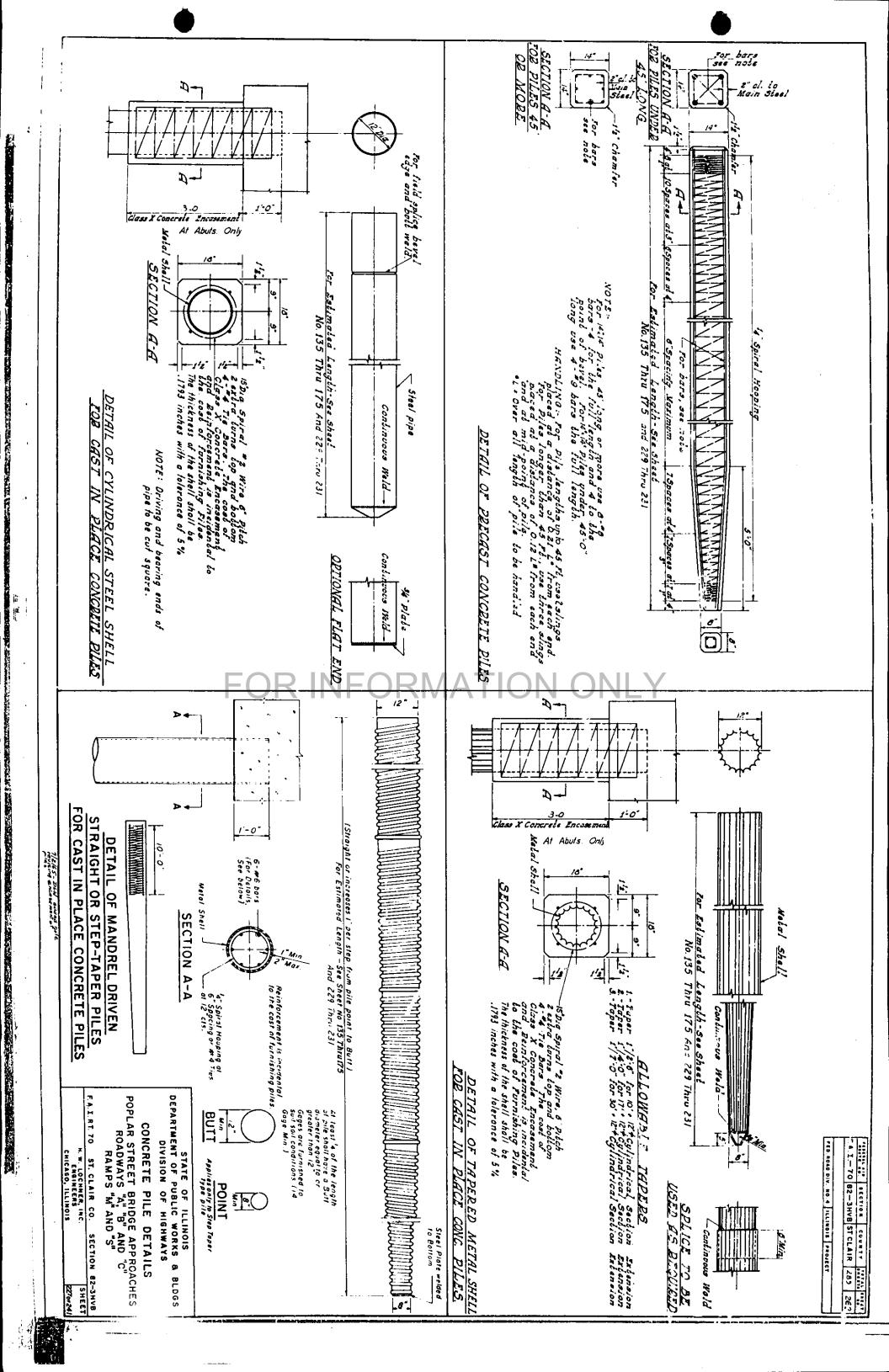
MATERIAL 56 C 4/2

FAI RICTO SEC BE-SHUB
ST CLAIR COUNTY PIER PROJECT I.IG-70-1(69)0 80 3

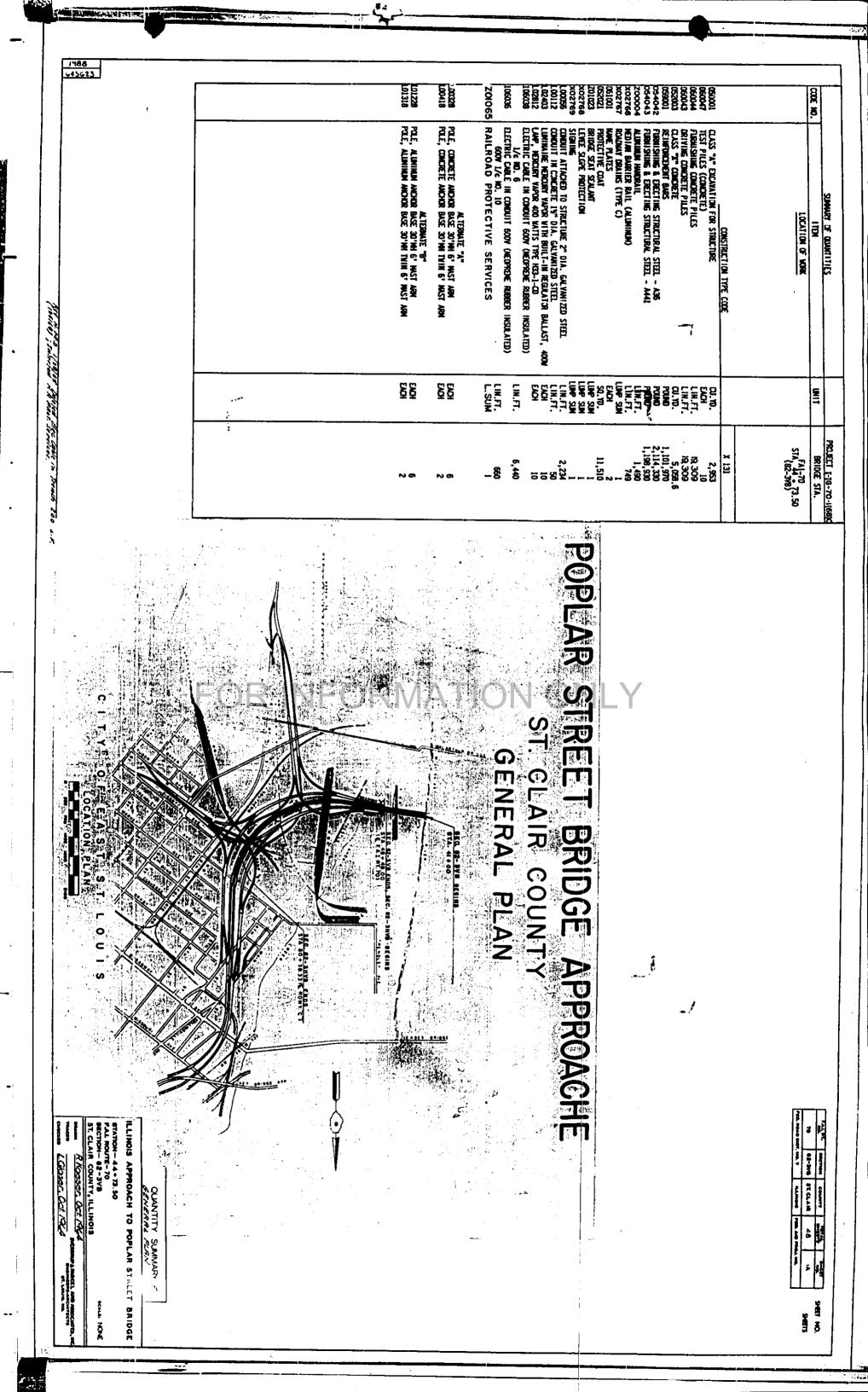
CHECKED PAK CHECKED EAK DESIGNED F K DRAWN KKU PASSED CZMINED APPROVED



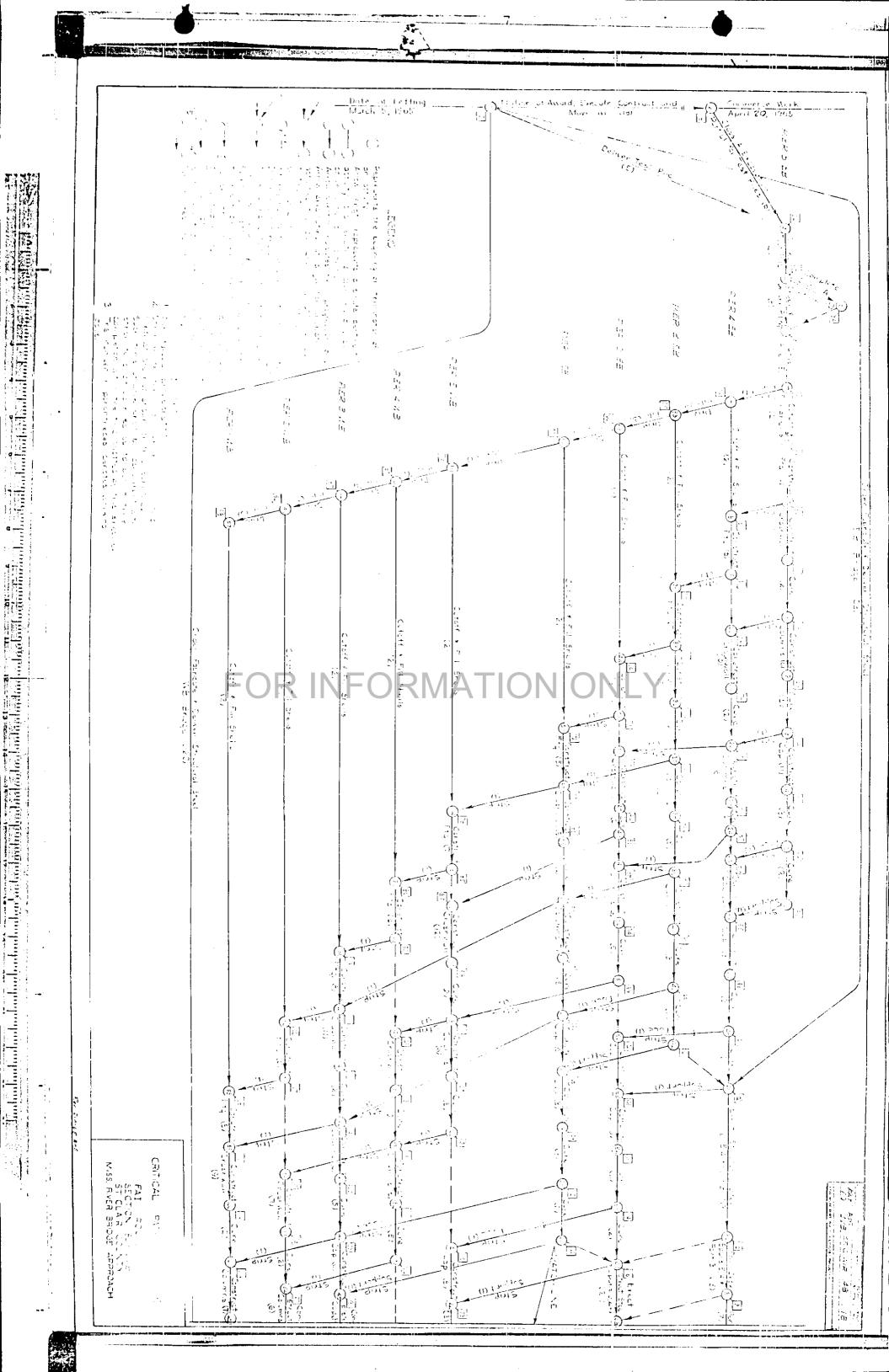


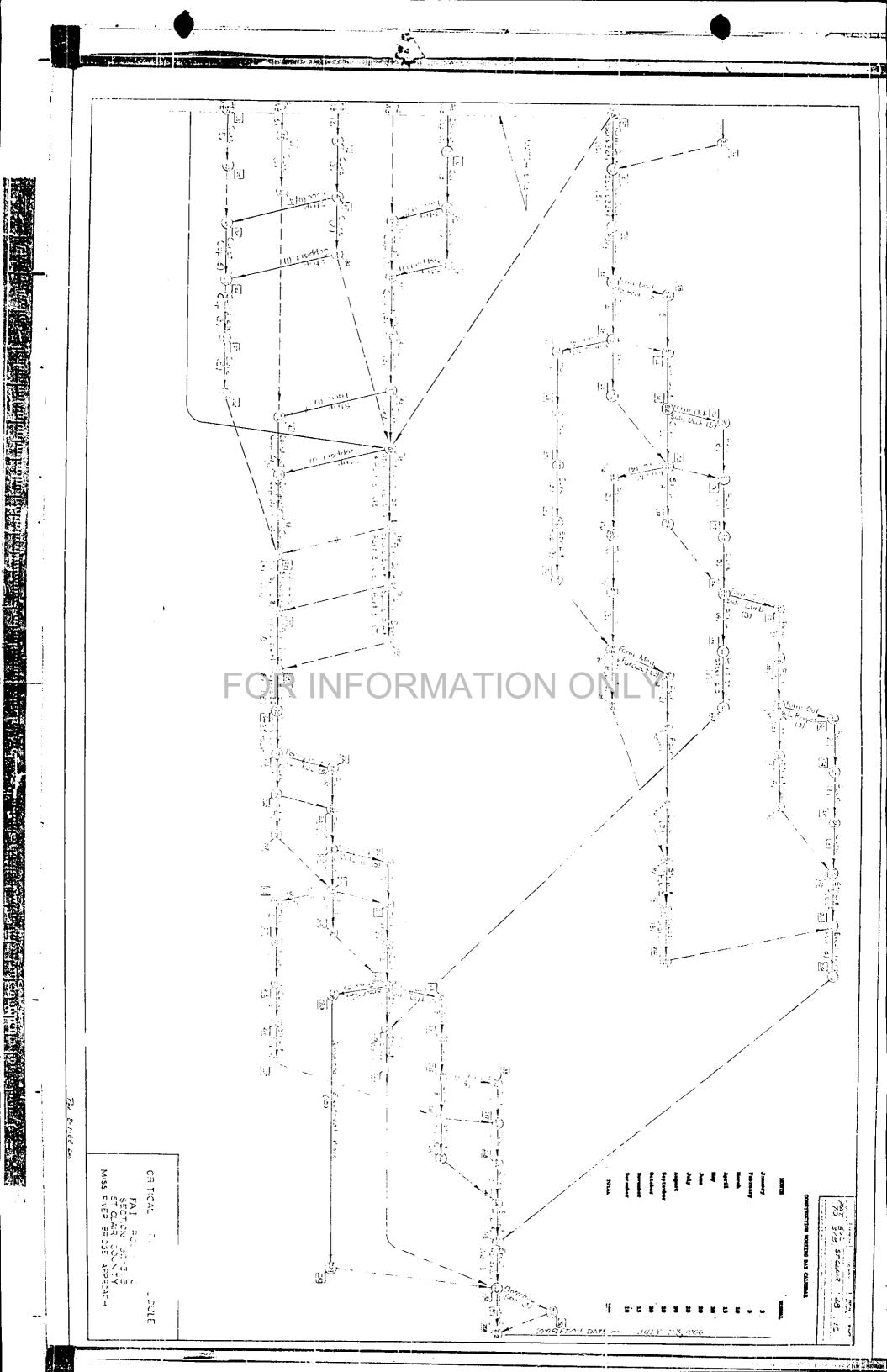


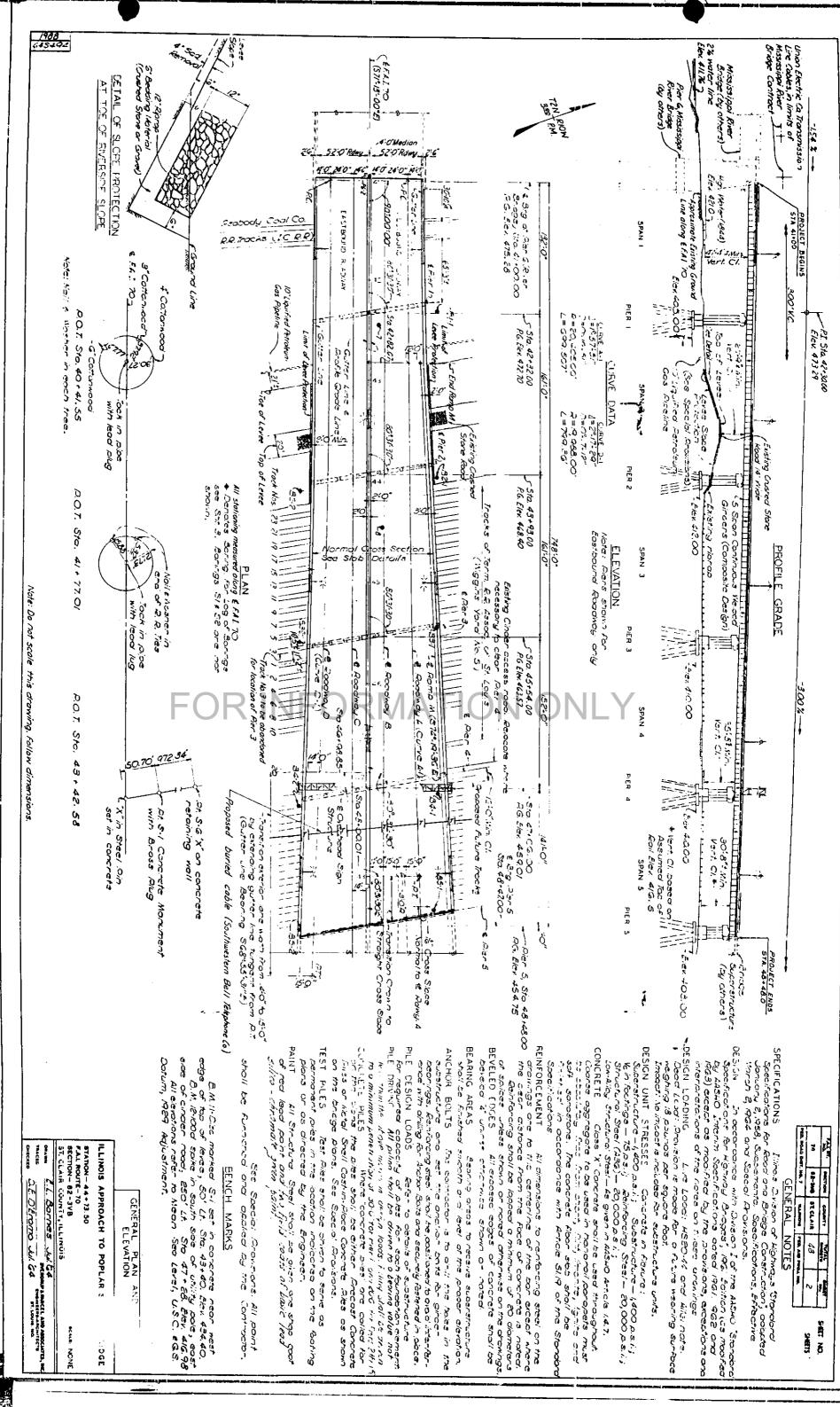
8-59



hand bearing the







A section to the first of the f

HOLE sond como!! Sand Fire time sond Stine sond coorse sond rine sand Gey very the sond င္ပ 읶 BORINGS क्ष कार क्ष E F Coreu sond fine sand fill Brown Fire to med. Sand Tore oense Grey coars To codrue course sand coarse sono
mith linestore
frogments sand sand tess otense rine sond small ELEV N June No Recovery - Wash Sample ACLE I Ę lipune ₹ +OLE S-1 H Count Mater Ground Hater And Conty 6 3 SOM WACH Sand Say troop of clay 50 B!-i See A Ŵ 200. 읶 20T HOLE E BORINGS papare uce ď grey key

frey ward

free grey ward

fixed to large

grand-in ub.

some ward Prey some sand trace clay foround Hater Scinctura, rock SCINOUS F Elex 4078 or grove/ sand some Fine to Lune 5, Brownish grey Fine to media 2 (257.24) /962 June 6, Sicology  $\widetilde{\mathcal{Q}}_{\mathbf{M}}$ OLE B2-2 4 Grey and trace of Surface Elen 424.8 The coorse 1000 Sorey sitty June 7 CEFOCHING 9000 33 HOLE B3-! Seregish brown send some to medium size grare! Silty sand Ground Water Fine to course rarel trace of Cinder fill A 45.9303 2-42 Do not scale this drawing. Foliom SUBSTRUCTURE LAYOUT LOG OF Station 21,20 MOU 25, 1952 Z ( Pier 3 Surface Detect 415.9 Concer Fill Sitt sond frace LE 83-2 45-60(70'Right) Sand few sand few small grave! fine brown grey sand fine to medium BORINGS · & Facting 110 MOY HOLE B4-1 Station 47+10(10Zeft) -- 5 ₹ Sand Sand Seine grey Sand Fill enall rock grey sand sity sord
with the small
gravel
Stine brown
Stine brown den sud!. Sitty som &Firt MQy 22, 1962 Medium to fire fine brown they area 200 and Water HOLE B4-2 Storn 47-25(10/Fight) EPar 5 Sing cong sing of the sing cong sing some sing some sing some sing cong sing 23, to May 28, 120 Cinder Fill Tand Sone of the stand of the s S Brown Frine to coarse 13 Elex 414.0 Lying gray gravel brown prob. some sand grarel trown 2:73 2:73 2:73 (1. Sooting JAJ DA 44-18" June 4, to serie d. 1962 HOLE B5-1 Station 48.35(Nilett) Holes 84-1, 84-2, 85-1 and 85-2 - Drilling rig equipped with arom which had a broke and clutch with a wire rape affached to the arom. A 2" pipe guide was affached to the arill rad. EASTROUND WESTBOUND ROW ! Note: Fullie contractor's consideration in evoluting the penetration test values, a brief description of the drilling equipment is as follows:

Notes 786-001/ling rig equipped with a smooth spool and a soft manifa line to loss the nammer which had a needle guide afforched with a smooth spool and soft line to haist the homost the homost spool and soft line to haist the homomer which smooth spool and soft line to haist the homomer which tollowed a 2" appe guide attached to the drill rad holes 841, 842, 85-land 852-Drilling right holes 841, 842, 85-land 852-Drilling right holes 841, 842, 85-land 852-Drilling right. Sincy cincer
fill some
cloy, some
somes in
somes in
fine gray
fine gray
fine gray STATION- 44+73.50
PAL ROUTE-70
RECTION- 82-3VB
ST. CLAIR COUNTY, ILLINOIS ALLINOIS APPROACH TO PO Clay Soud Fine gray Small grove! Fine brown Sond Sond -Surface Eter, 412.9 L' Cornes June 5 R Hell July 60 LOG OF BORINGS स्त्र का क्र क्र स्रो<u>त्र इति</u> अं Moy 29, to June 1, 1962 mind Air 316 416 (a)(v) HOLE 65-2 Station 48+50(10'Kynt) Rill cinder SFINE Brown Seine sona Fine to addrse grey sand grave! Sitty cay Stine grey grey sand grey sitty sand Brown sitty Adoms sonos 60/0 Elar 414.0 Sand 1 MIDGE

/988 645**%**/

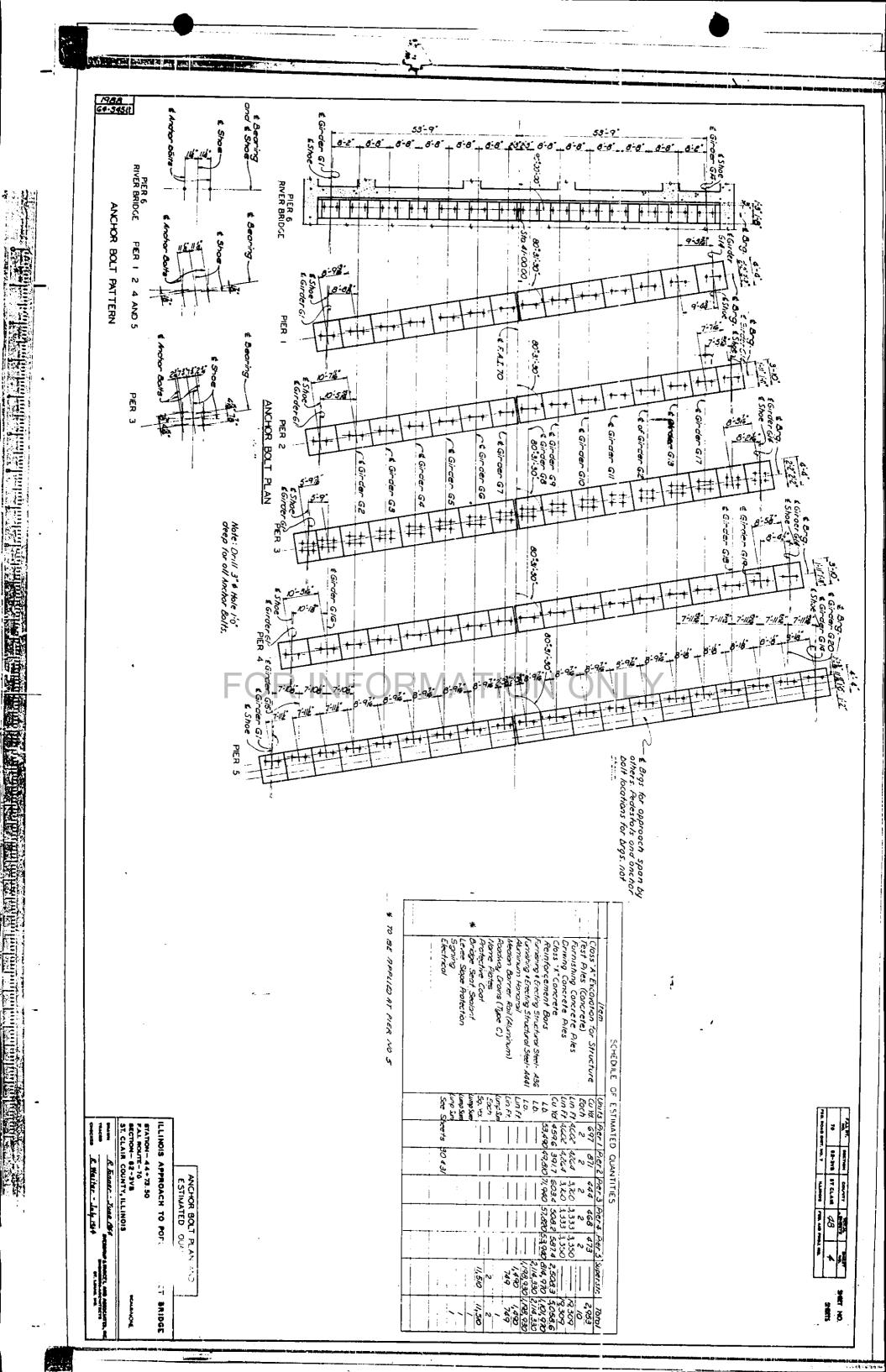
ber hantminischen hantminisch

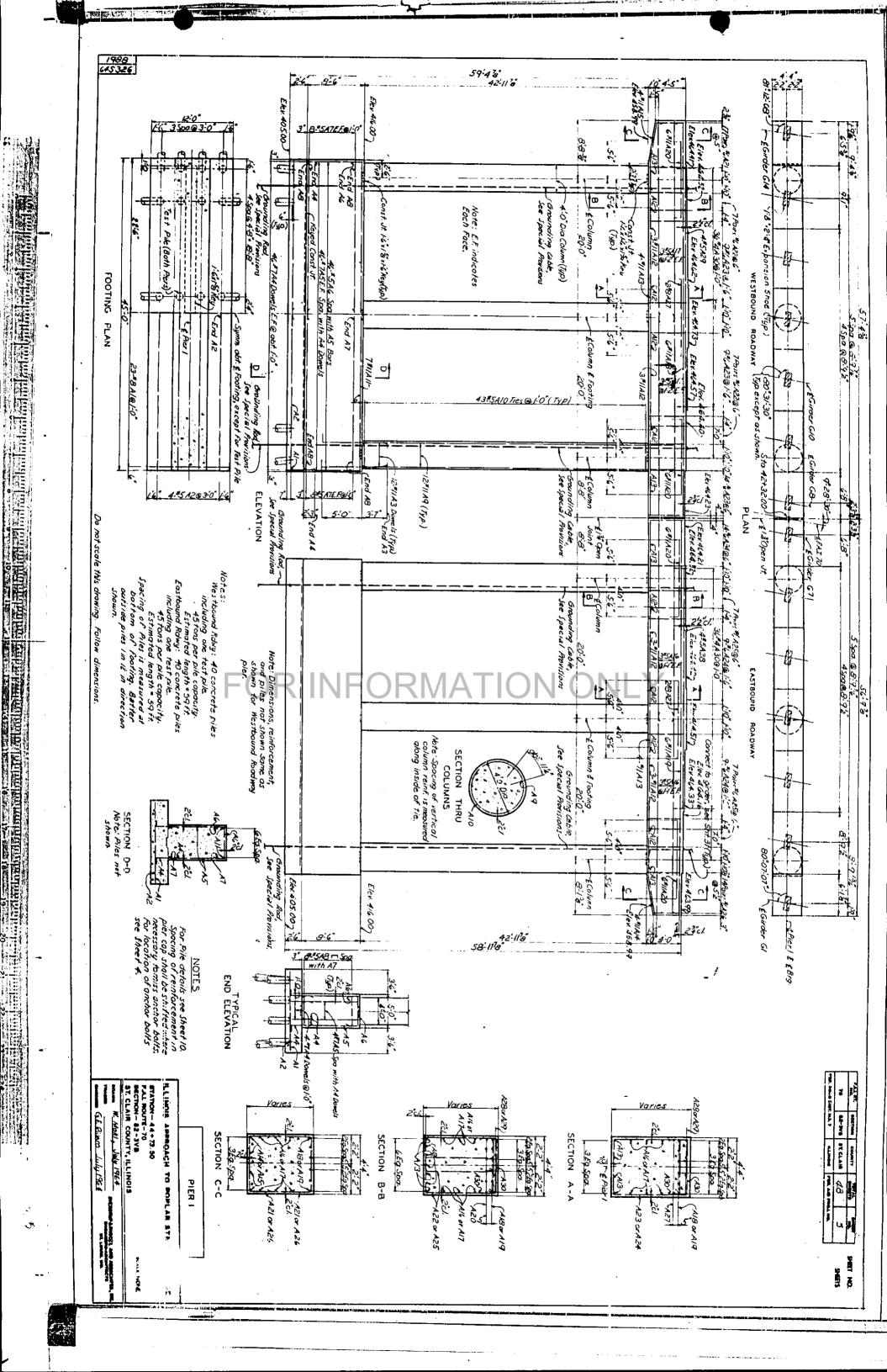
NOTES

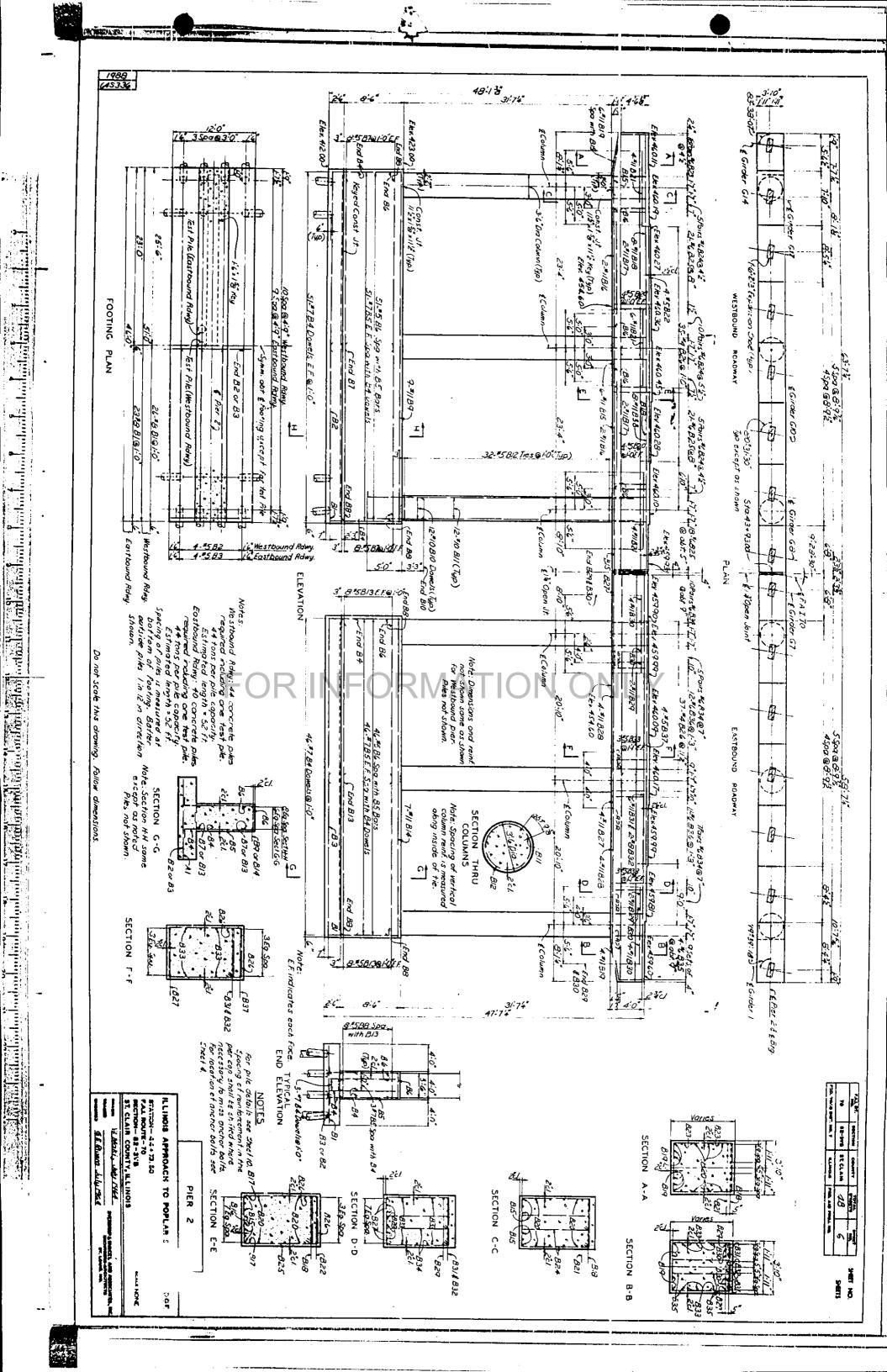
Each figure in the column readed "N" indirates the number of blows required to drive a 2"OD Sampling Pipe 6 inches using a 1401b, weight falling 30 inches. Where fractions are shown the numerator indicates the first 6 inches of sampling and the denominator indicates the second 6 inches of sampling, unless otherwise indicated.

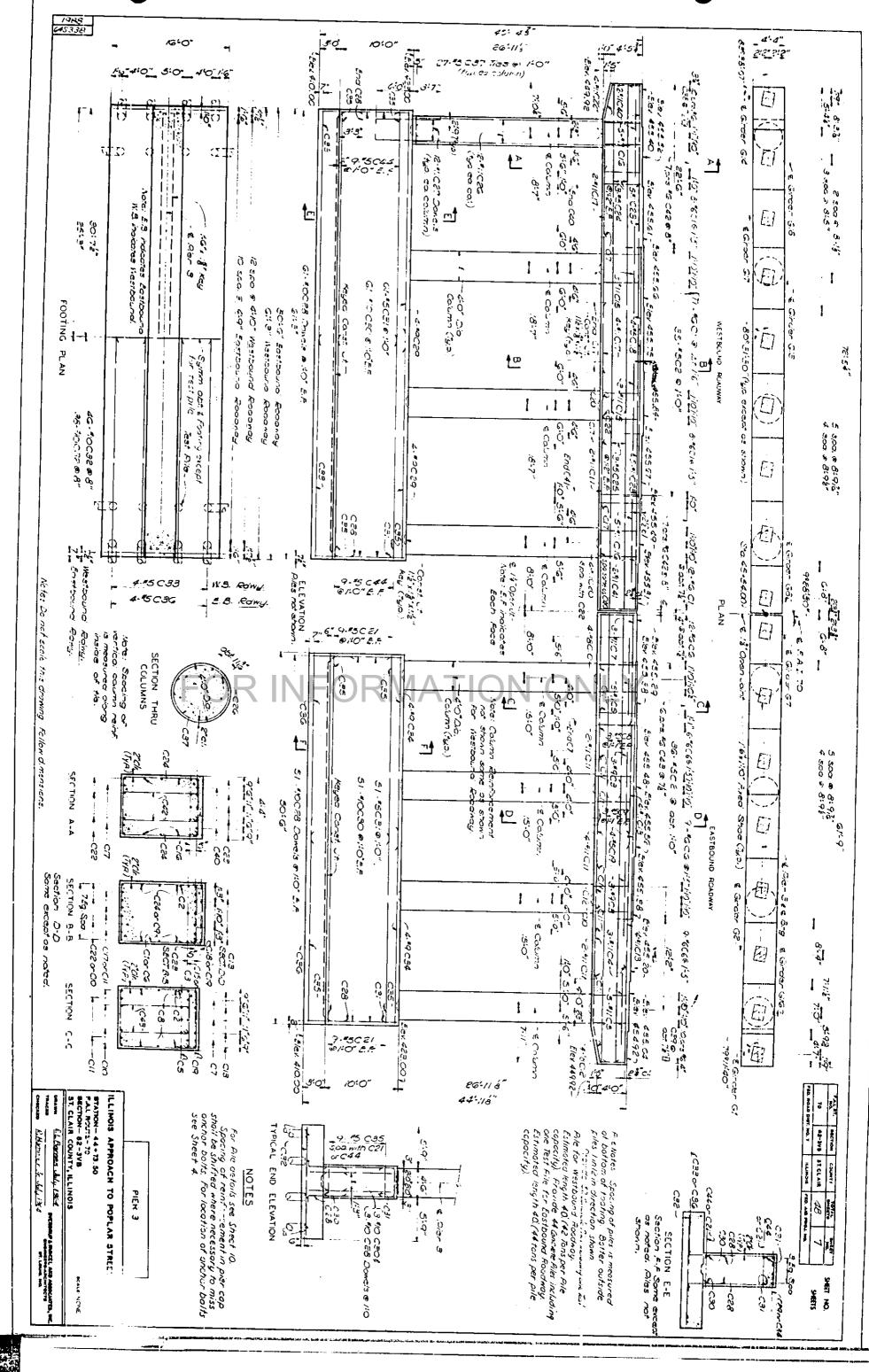
79, TT. GRETON SPECIANS (20) 33
79 68-200 ST.CLASS (20) 3
78. GREGORIUM, T. LLIAGO FRA, AM FRAN, MA.

9481 HO.



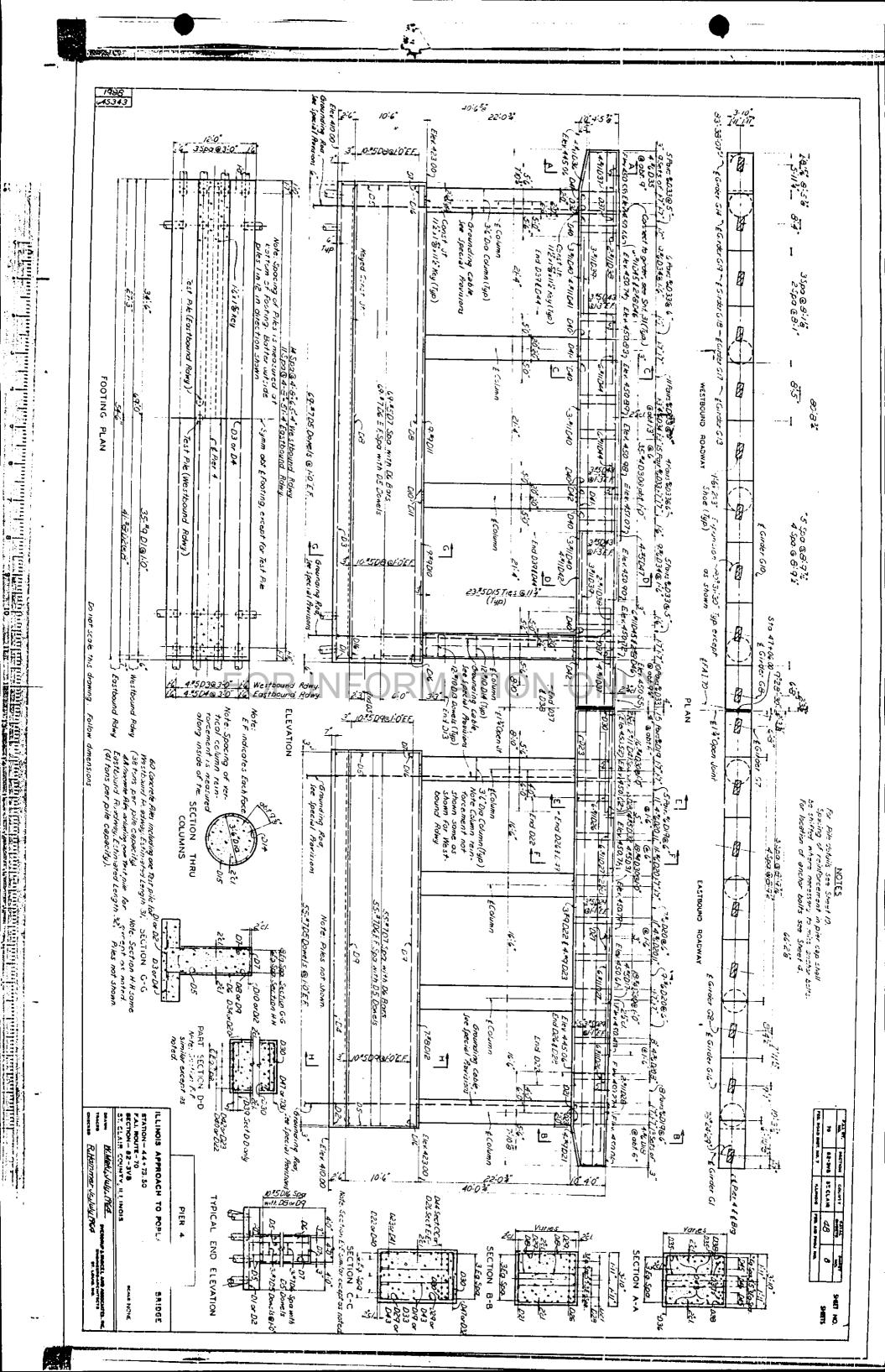


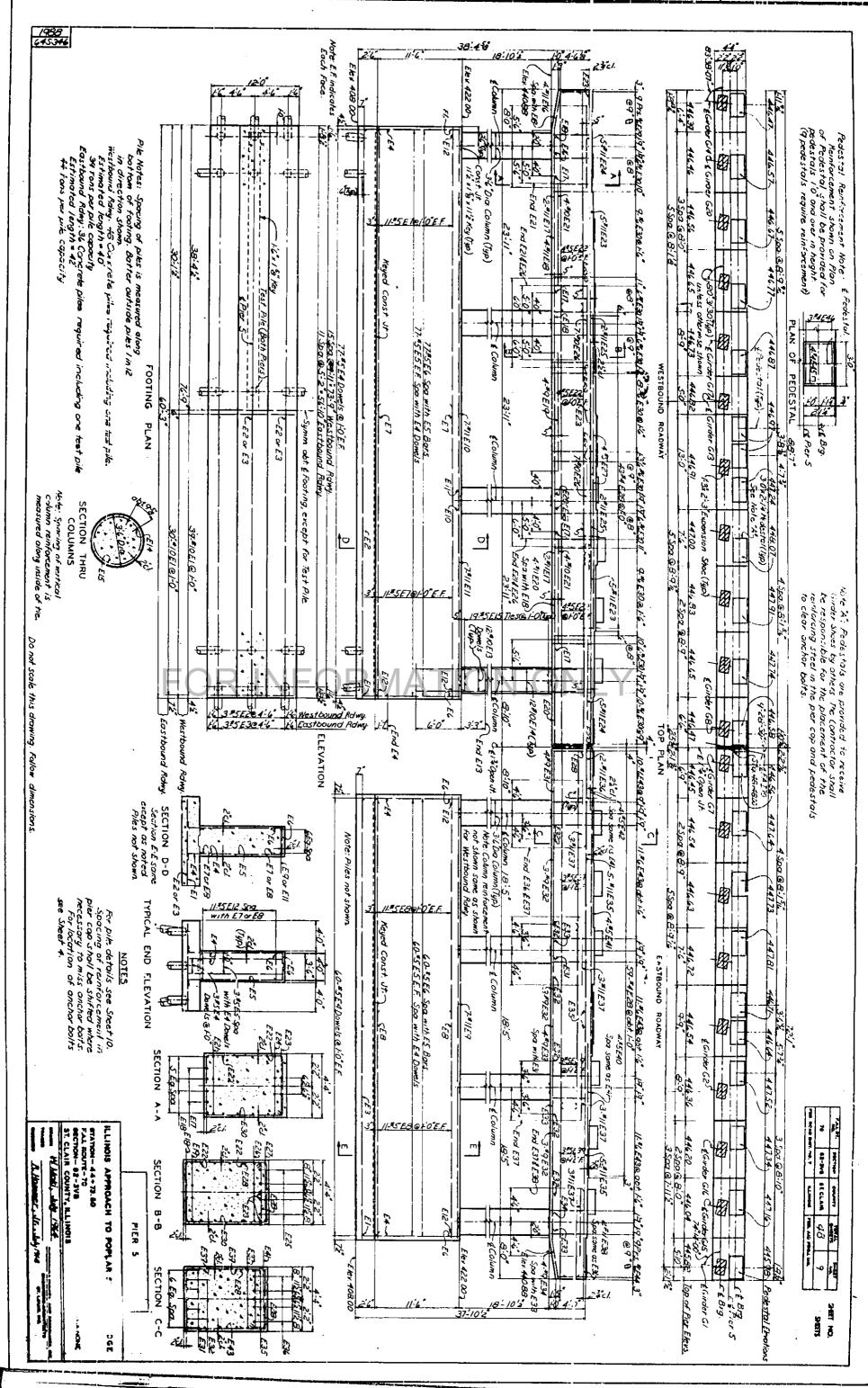




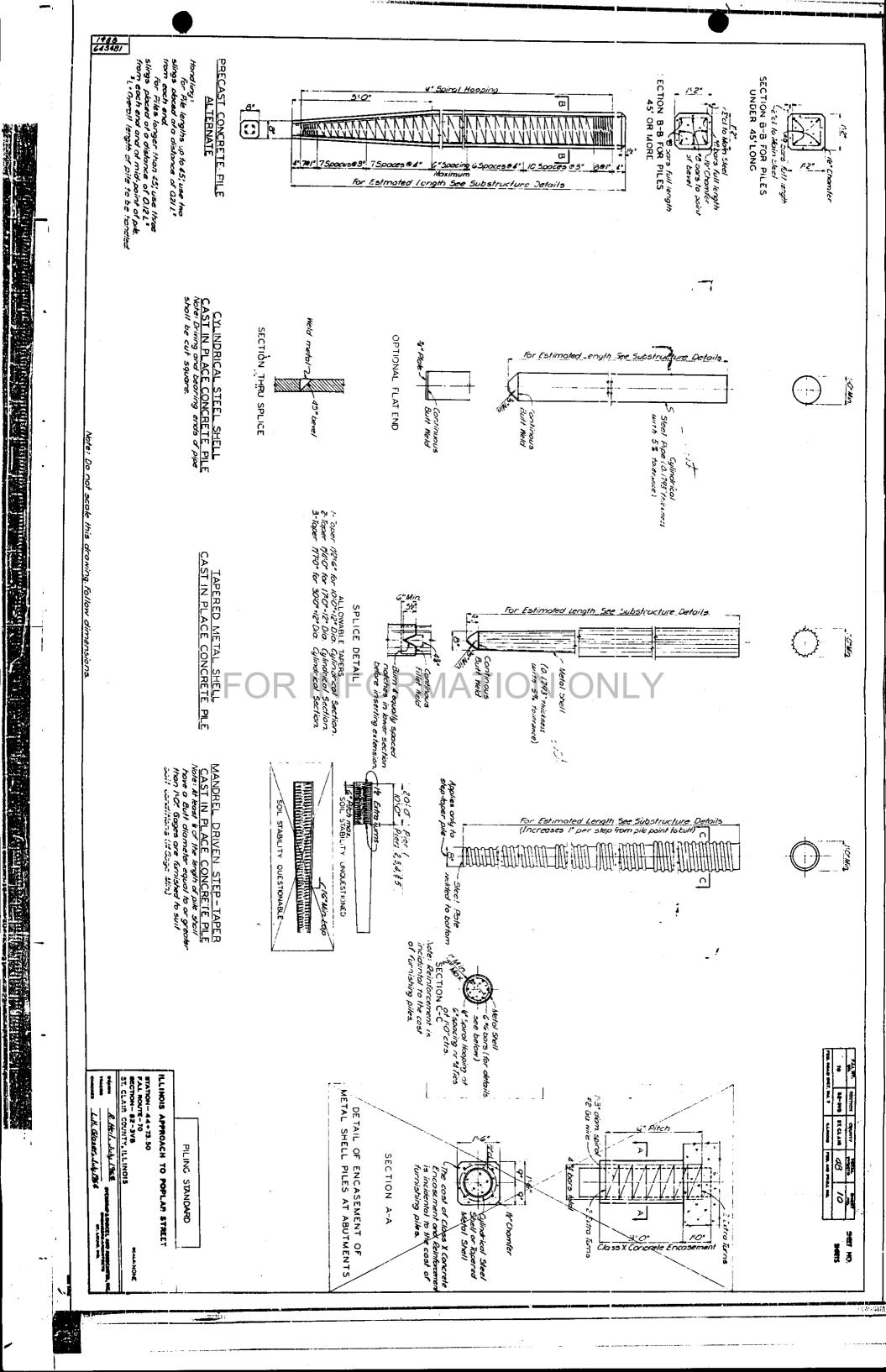
duntumbert in the state of the

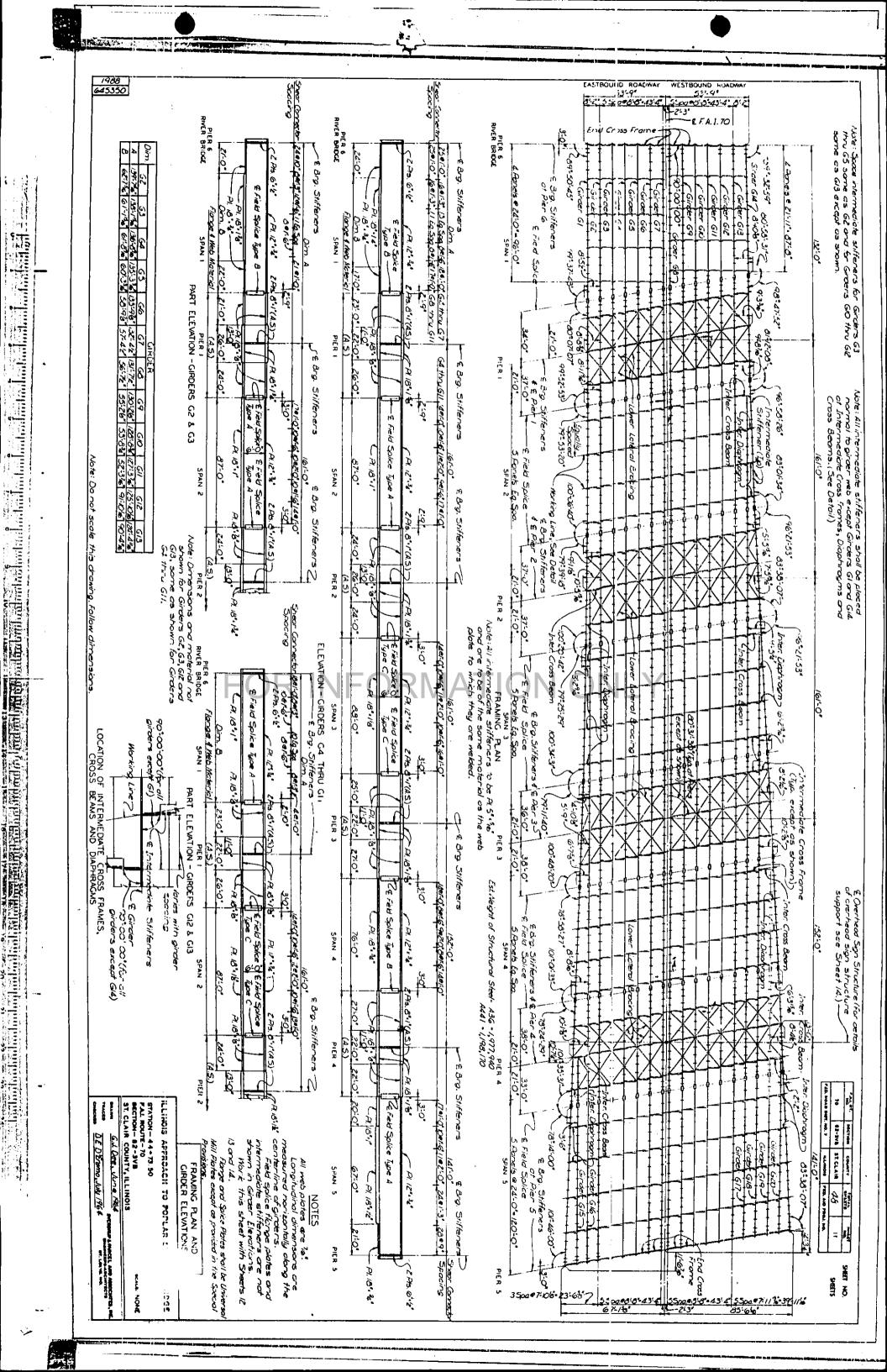
Lindudinhudin

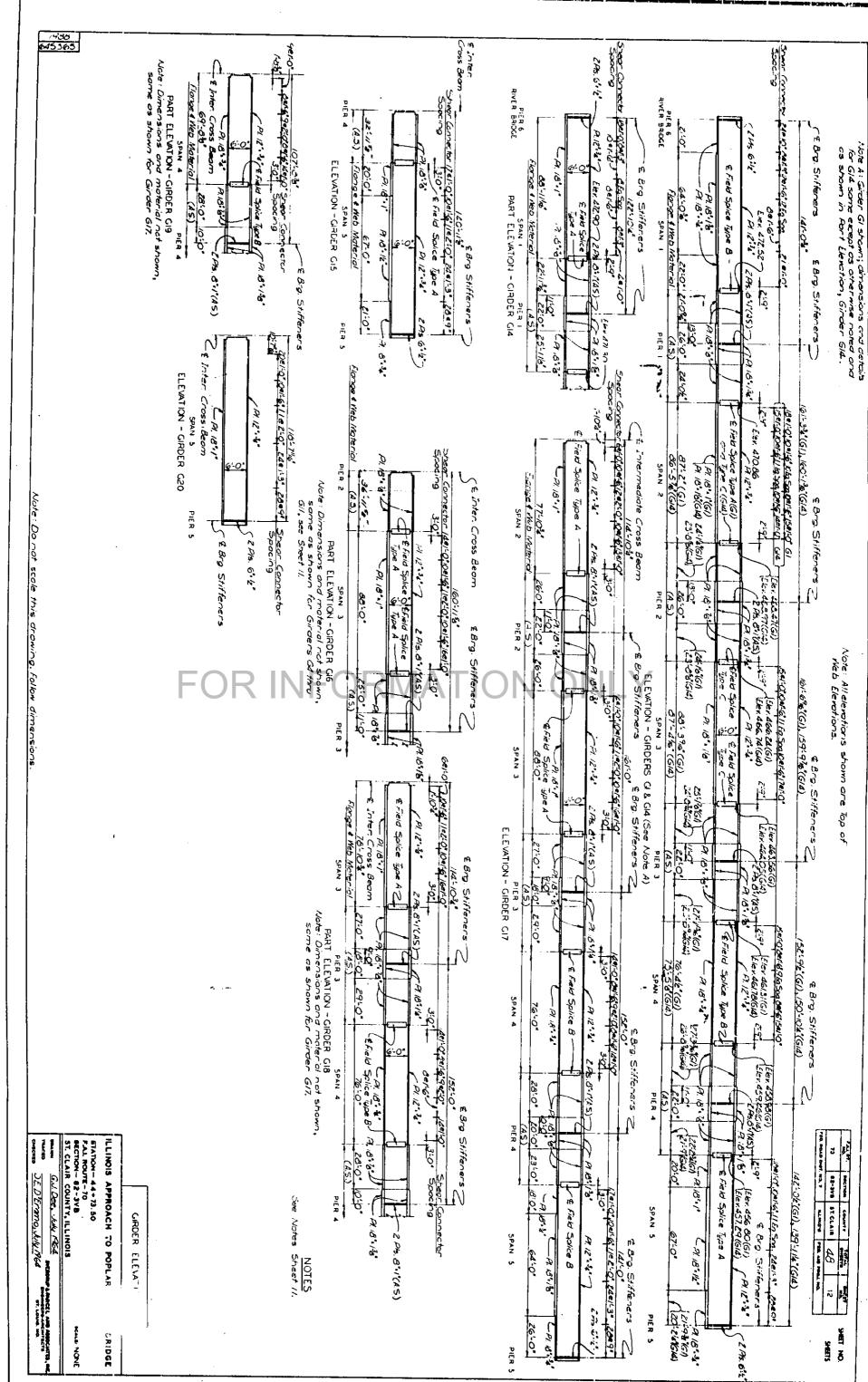


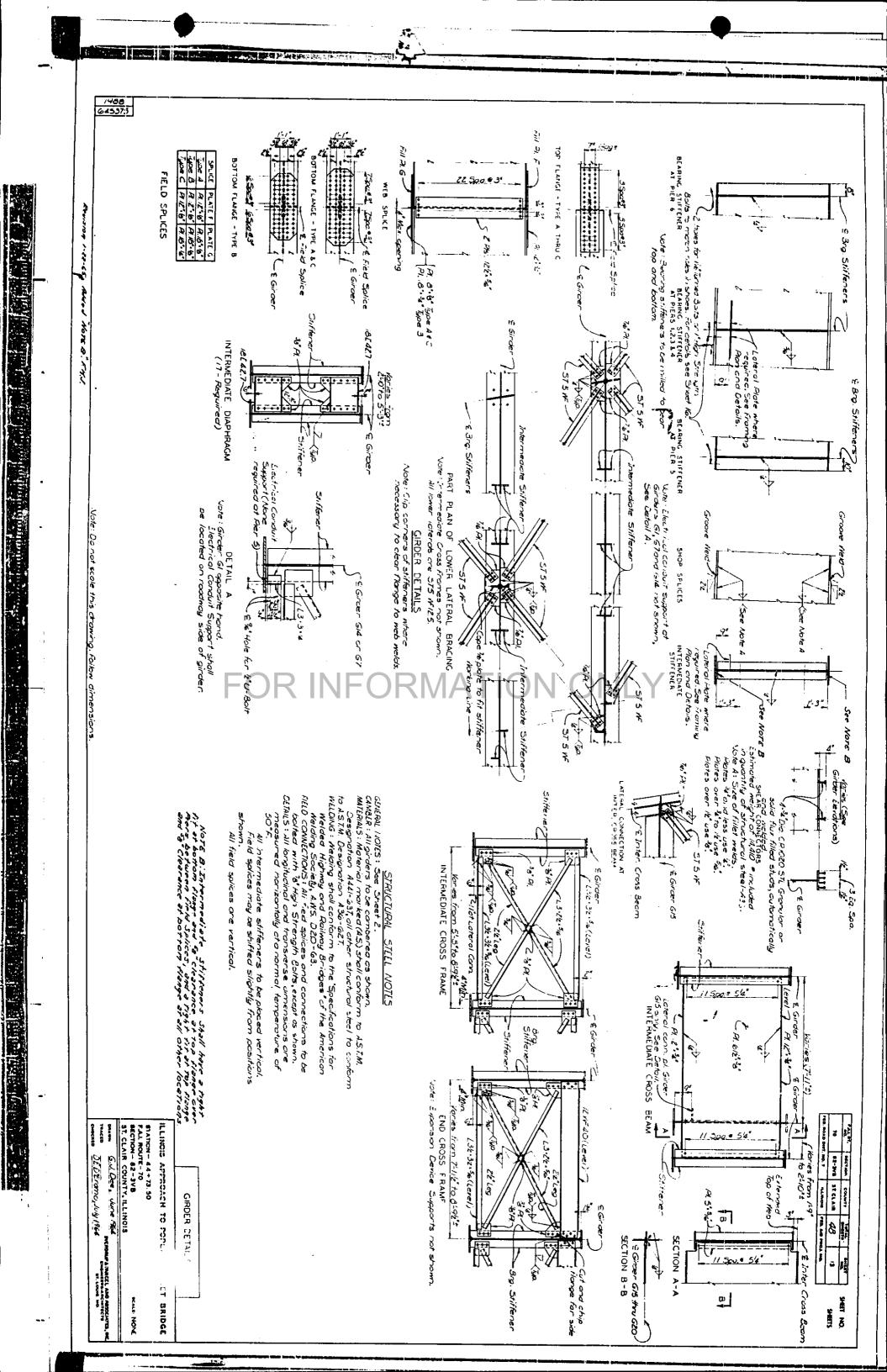


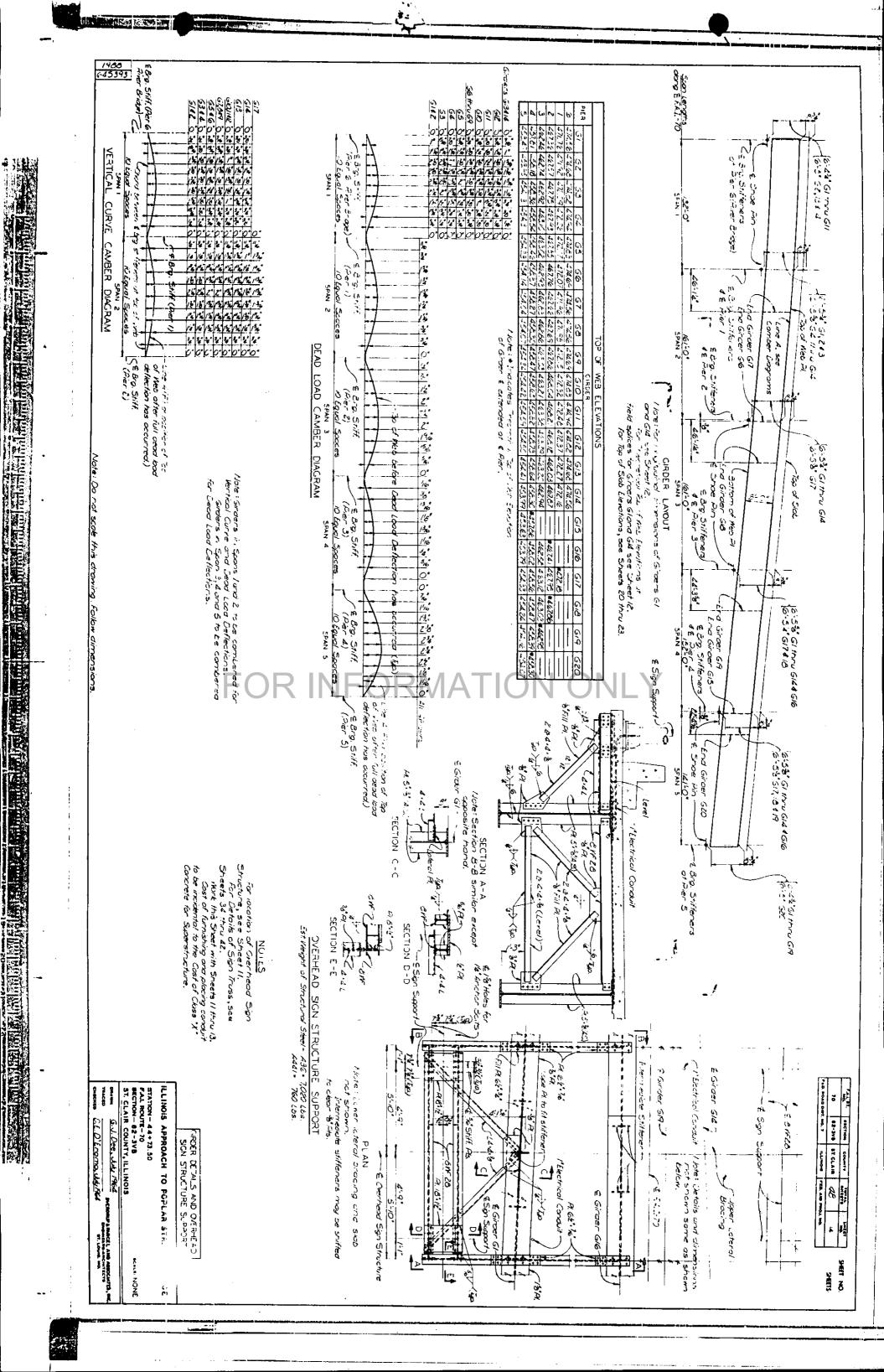
of will the bring in the control of the best of the bring in the bring in the bring of the bring

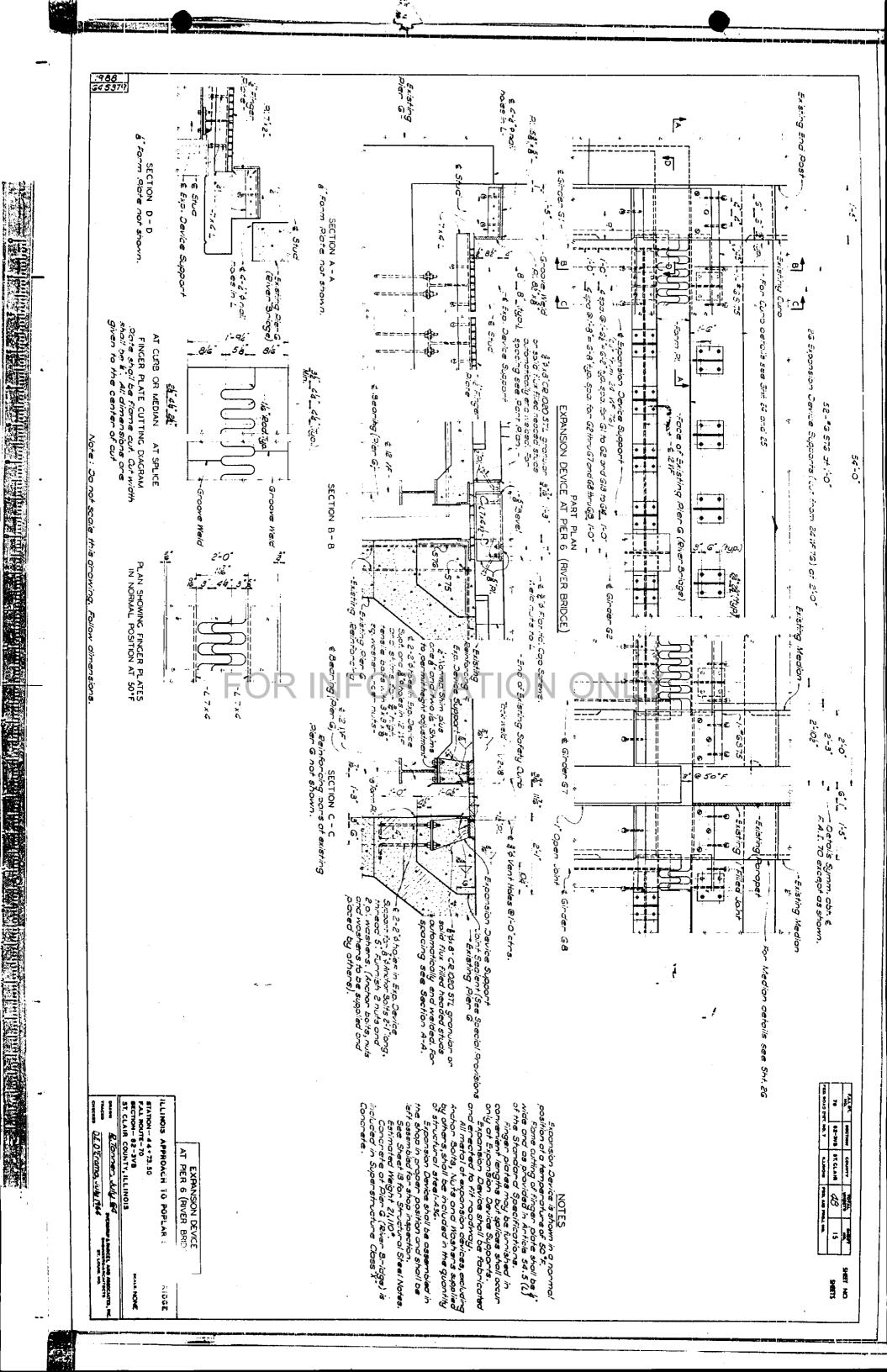


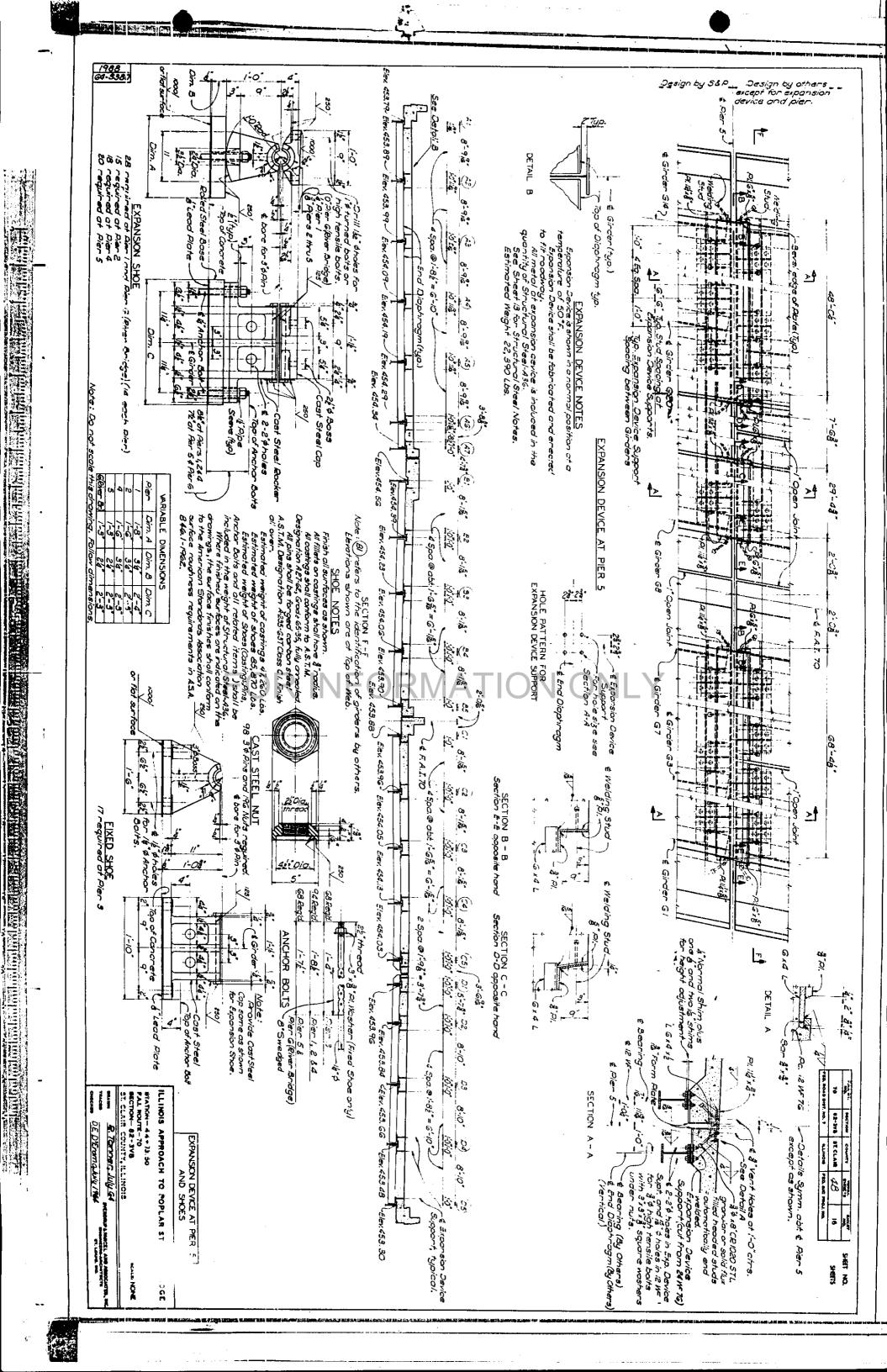


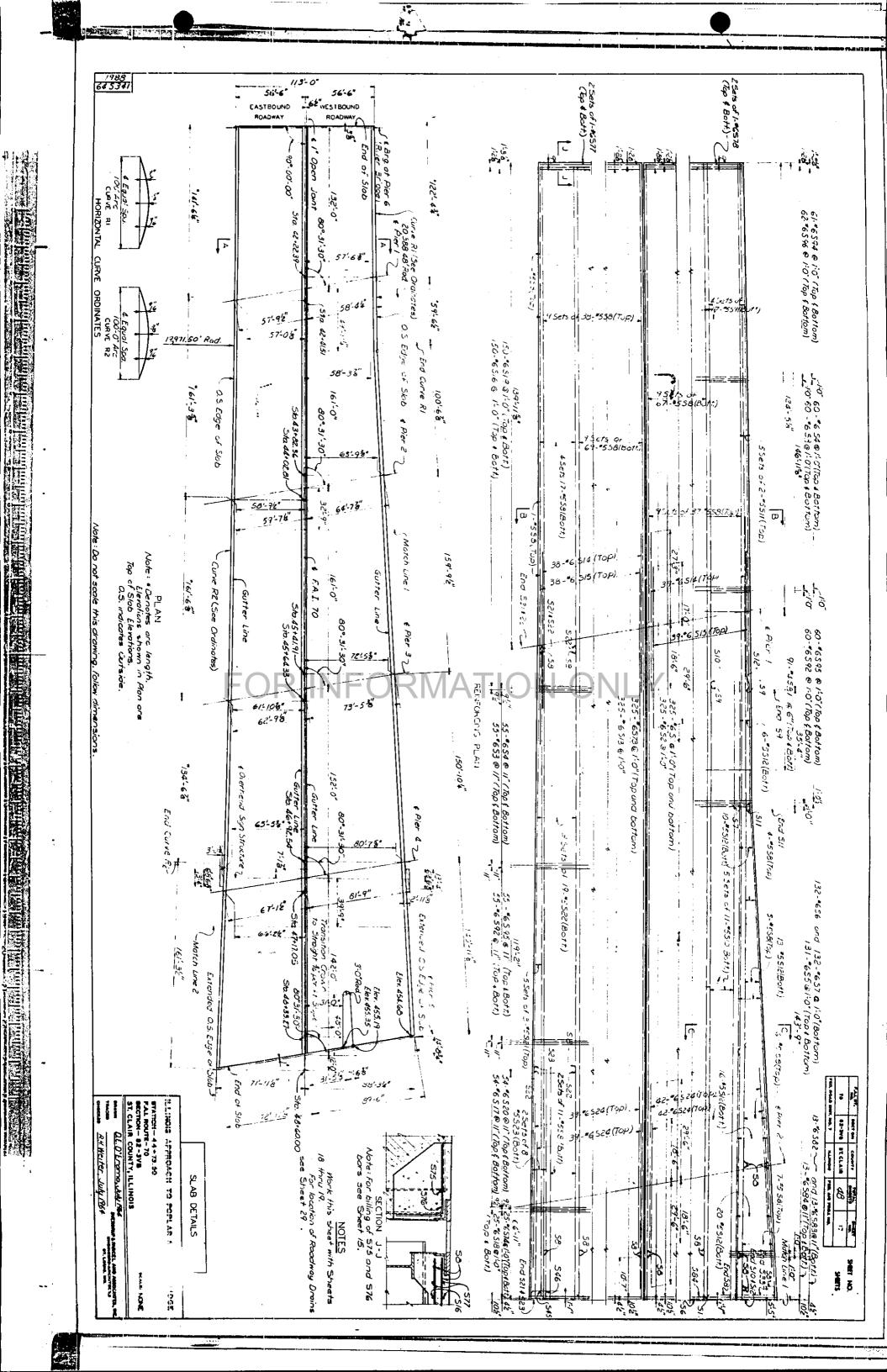


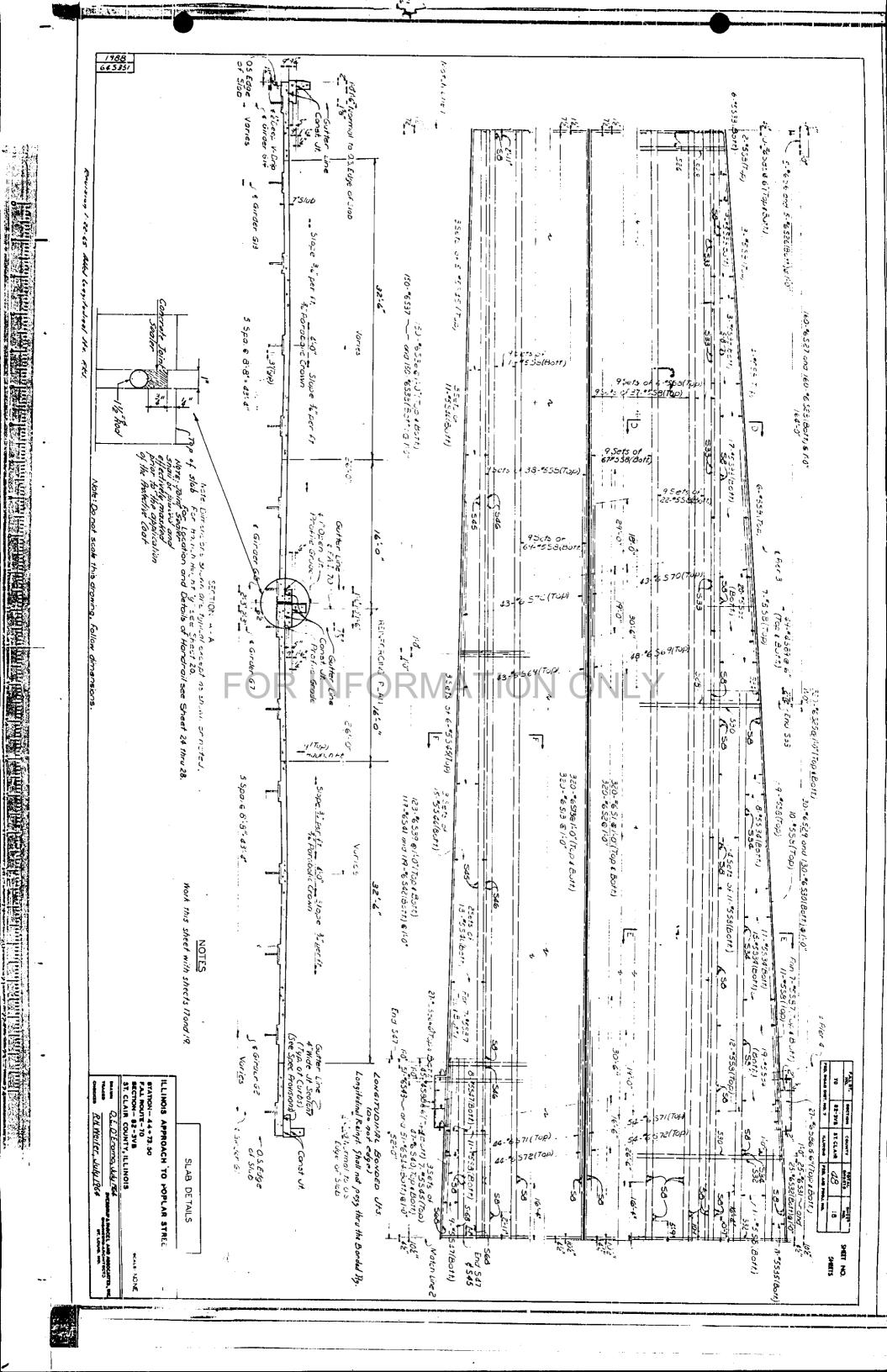


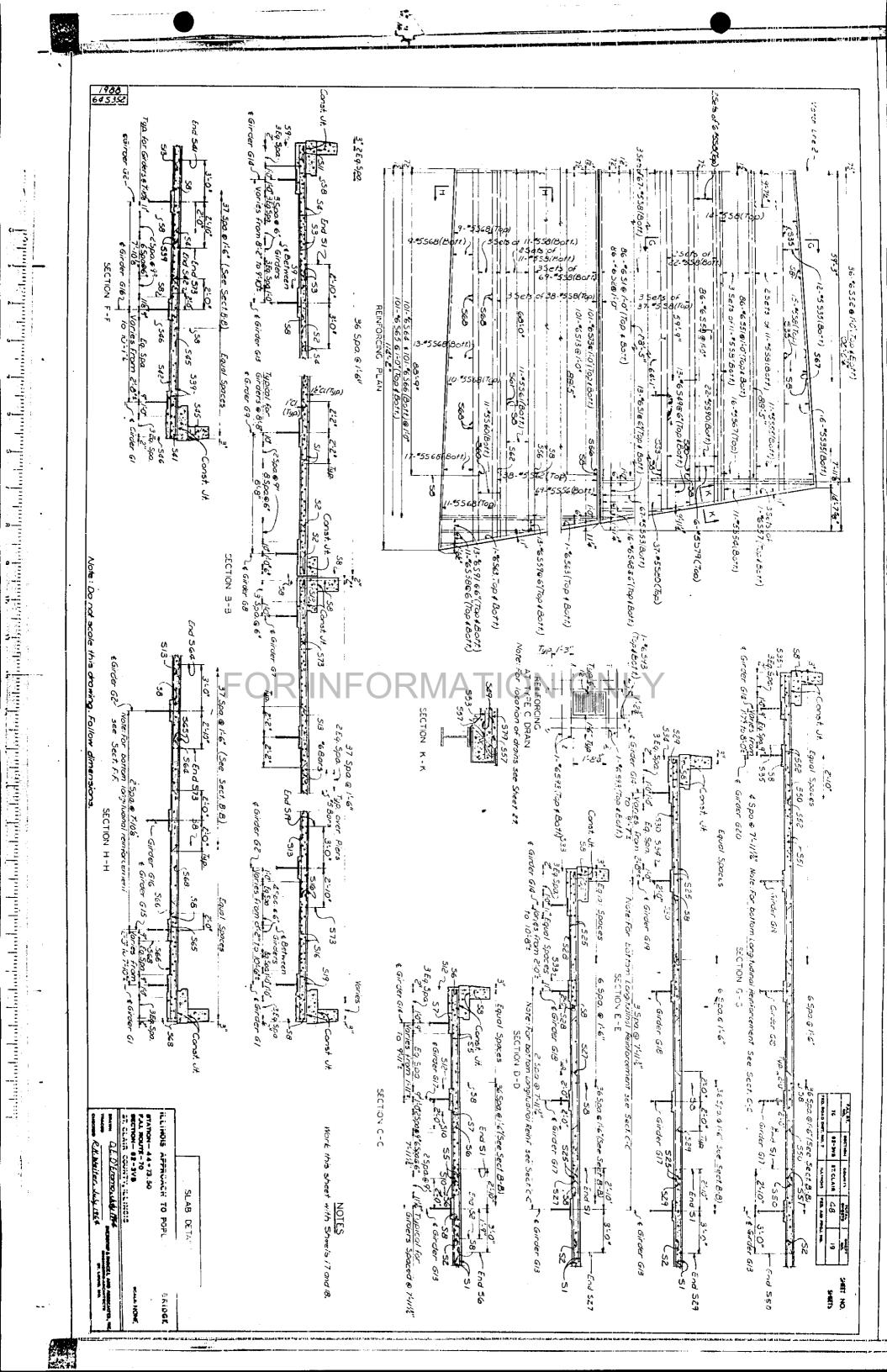


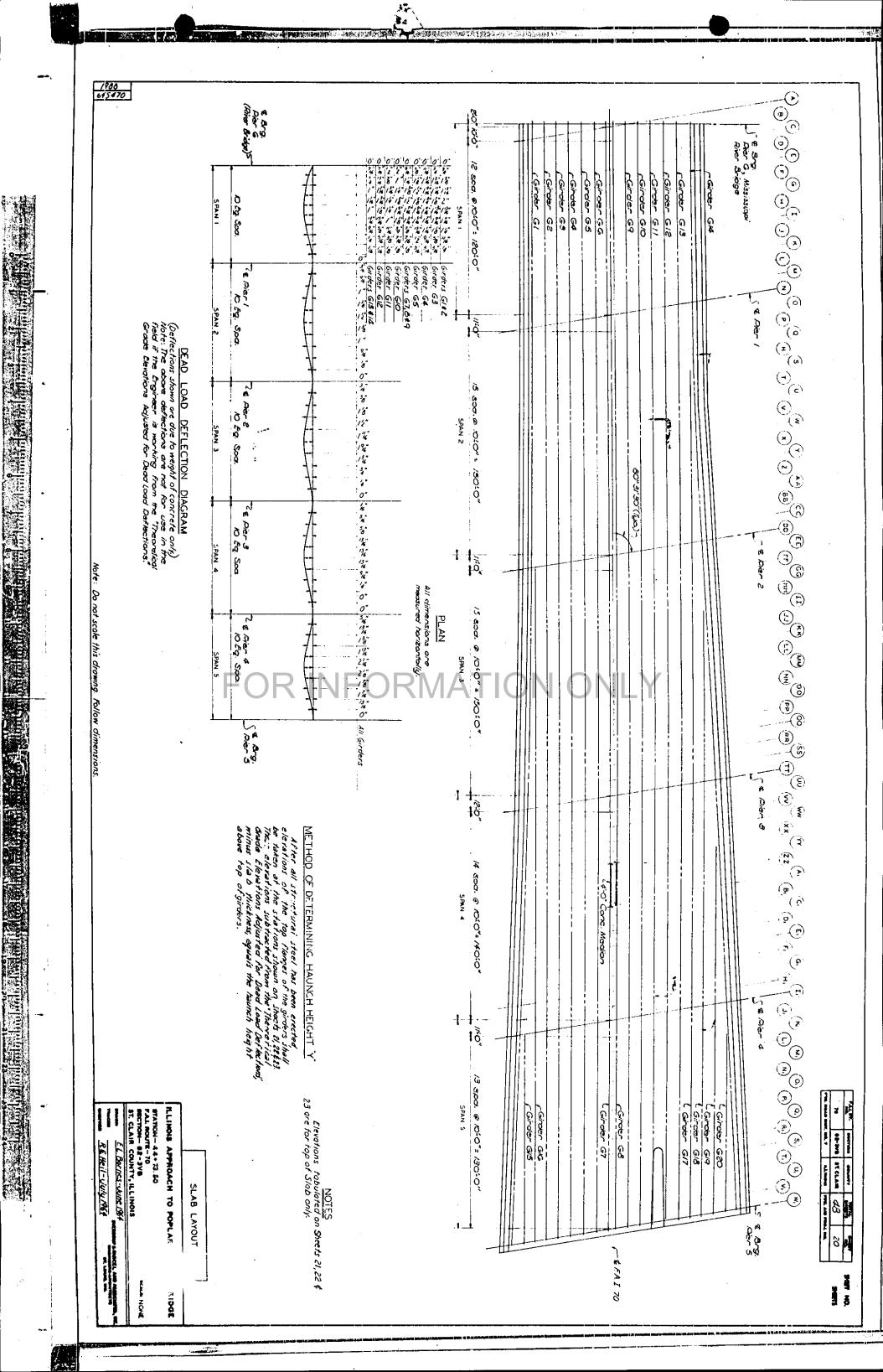












1958 645471 Theoretical Grade Clerations are adjust to wit of concrete 42.63 477.2 258888 1 - 61 431219 470.70
62 431219 470.70
63 430771 471.66
64 430771 471.74
65 430771 471.74
66 431078 470.75
67 431078 470.75
67 431078 470.75
67 431078 470.75
67 431078 470.75
67 431078 470.75
67 431078 470.75
67 431078 470.75
67 431078 470.75
67 431078 470.75
67 431078 470.75
67 431078 470.75
67 431078 470.75
67 431078 470.68
67 431078 470.68
67 431078 470.68
67 431078 470.68
67 431078 470.69
67 431078 470.69
67 431078 470.69
67 431078 470.69
67 431078 470.69
67 431078 470.69
67 431078 470.69
67 431078 470.69
67 431078 470.69
67 431078 470.69
67 431078 470.69
67 431078 470.69
67 431078 470.69
67 431078 470.69
67 431078 470.69
67 431078 470.69
67 431078 470.69
67 431078 470.69 51 43-425 429 87 62 43-4061 470 07 63 43-3916 470 42 64 43-3171 470 42 65 43-3482 470 73 67 43-33-38 470 74 67 43-3262 470 74 67 43-3262 470 75 67 43-364 470 34 67 43-2828 470 58 67 43-2828 470 58 67 43-2828 470 58 67 43-2828 470 58 67 43-2828 470 58 67 43-2828 470 58 67 43-2828 470 58 STATION - 44-73.50
PALL ROUTE-70
SECTION - 82-3V8
ST. CLAIR COUNTY, ILLINOIS
WAA. - UNIT 1964 741.81. DECTION COUNTY TOTAL DESIGNATION OF THE ASSESSMENT OF THE ILLINOIS APPROACH RE Heil - July 1964 ğ OF SLAB ELEVATION TO POPLAR S t<sub>a)</sub> 477.00 470.77 470.77 470.77 470.52 470.64 470.65 470.66 3 TOWN THE PERSON NAMED IN 4. 948 AO. NON EVER e.

1988 645472 43.7234 43.7061 43.9216 43.9216 43.9217 43.9218 43.7077 43.7078 43.7078 43.7078 43.7078 43.7078 43.7078 43.7078 6 603 410 Co/ 3 STATION - 4.4+73.50

FAL ROUTE-70
SCHOON - 82-398
ST. CLAIR COUNTY, ILLINOIS

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT

FALT ILLINOIS APPROACH TO POPLAR (3) RE Hell - July 1964 TOP OF SLAB ELEVAT 45:47.05 44.3.18 44.3.11

45:45.13 44.3.10 44.3.11

45:45.13 44.3.10 44.3.11

45:45.13 44.3.10 44.3.11

45:45.13 44.3.20 44.2.31

45:45.13 44.2.20 44.2.33

45:45.13 44.2.20 44.2.33

45:45.13 44.2.20 44.2.33

45:45.13 44.2.20 44.2.33

45:45.13 44.2.20 44.2.33

45:45.13 44.2.20 44.2.33

45:45.13 44.2.20 44.2.33

45:45.13 44.2.20 44.2.33

45:45.13 44.2.20 44.2.33

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.33

45:45.13 44.2.20 44.2.33

45:45.13 44.2.20 44.2.33

45:45.13 44.2.20 44.2.33

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20 44.2.23

45:45.13 44.2.20

45:45.13 44.2.20

45:45.13 44.2.20

45:45.13 44.2.20

45:45.13 44.2.20

45:45. ઈ ٨ 60/3 PT. LOVEL OR. Ĭ NON . ă E 100

gradienting proprietation of the state of th Ludminiminalmi

1988 645473 77 456.60 456.70

78 456.60 457.70

78 456.60 456.70

78 456.60 456.70

78 456.60 456.70

78 456.70 456.70

78 456.70 456.70

78 456.70 456.70

78 456.70 456.70

78 456.70 456.70

78 456.70 456.70

78 456.70 456.70

78 456.70 456.70

78 456.70 456.70

78 456.70 456.70

78 456.70 456.70

78 456.70 456.70

78 456.70 456.70

78 456.70 456.70

78 456.70 456.70

78 456.70 456.70

78 456.70 456.70

78 456.70 456.70

78 456.70 456.70

78 456.70 456.70

78 456.70 456.70

78 456.70 456.70

78 456.70 456.70

78 456.70 456.70

78 456.70 456.70

78 456.70 456.70

78 456.70 456.70

78 456.70 456.70

78 456.70 456.70

78 456.70 456.70

78 456.70 456.70

78 456.70 456.70

78 456.70 456.70

78 456.70 456.70

78 456.70 456.70

78 456.70 456.70

78 456.70 456.70

78 456.70 456.70

78 456.70 456.70

78 456.70 456.70

78 456.70 456.70

78 456.70 456.70

78 456.70 456.70

78 456.70 456.70

78 456.70 456.70

78 456.70 456.70

78 456.70 456.70

78 456.70 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

78 456.70

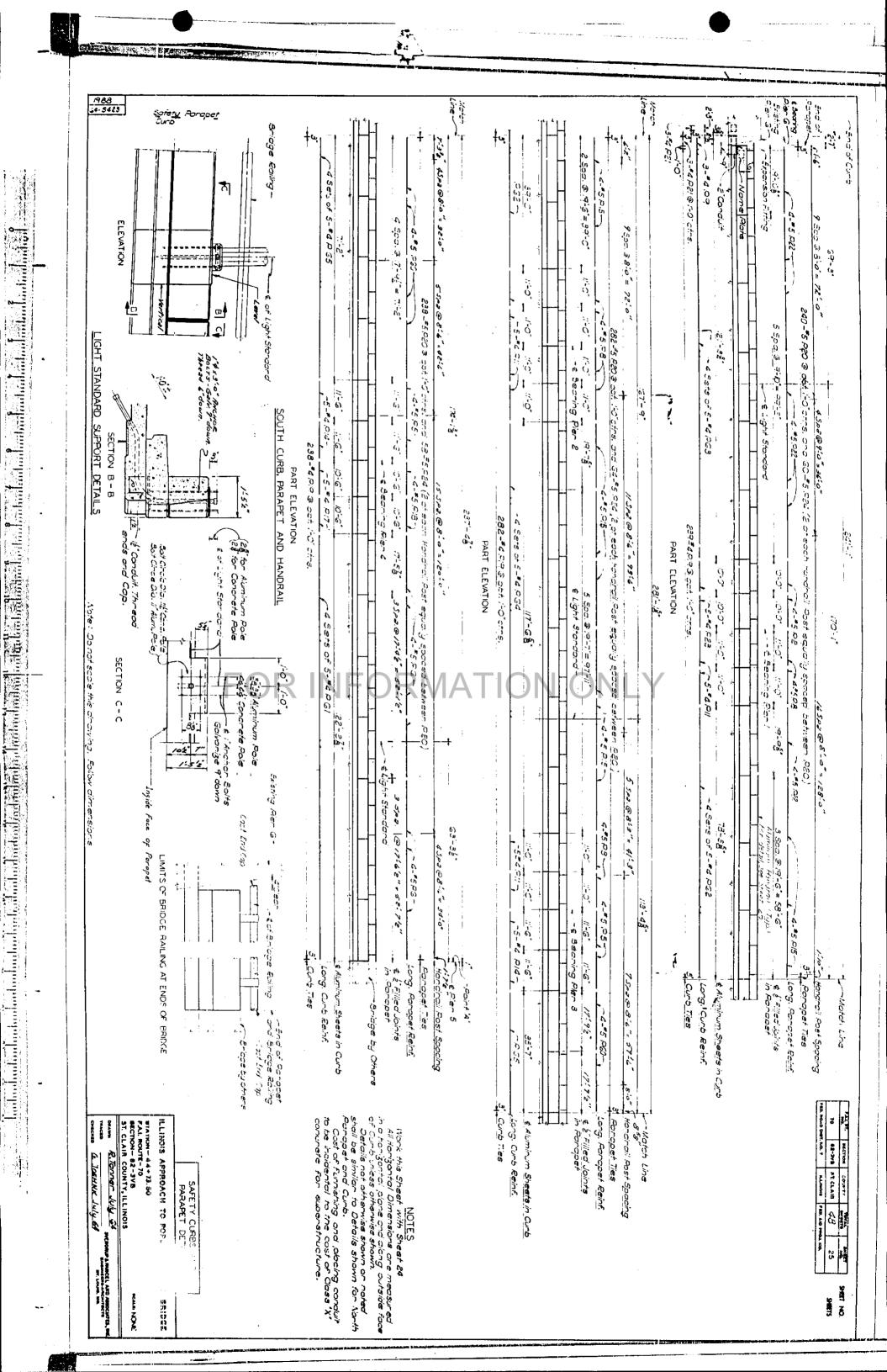
78 456.70

78 \$ 25.50 \$ 2 8 100 6/4 1 STATION- 44+73.50
FAL ROUTE-70
SECTION- 82-3VB
ST. CLAIR COUNTY, ILLINOIS ILLINOIS APPROACH TO POPL RE Heil- July 1964 WAA June 1964 TOP OF SLAB ELEVATOR #6:28.22 #55.37 #55.26 #6:28.22 #55.40 #55.26 #6:23.22 #55.25 #55.26 #6:23.22 #55.27 #55.26 #6:23.22 #55.27 #55.28 #6:23.22 #55.27 #55.28 #6:23.22 #55.27 #55.28 #6:23.22 #55.27 #55.28 #6:23.23 #55.27 #55.26 #6:23.23 #55.27 #55.27 #6:23.23 #55.27 #6:23.23 #55.27 #6:23.23 #55.27 #6:23.23 #55.27 #6:23.23 #55.27 #6:23.23 #55.27 #6:23.23 #55.27 #6:23.23 #55.27 #6:23.23 #55.27 #6:23.23 #55.23 #55.27 #6:23.23 #55.23 #55.23 #6:23.23 #55.23 #55.23 #6:23.23 #55.23 270 PPENDEND E BROCKE AND ABSOLUTE.
CONSESSO AND ABSOLUTE.
FT. LOVER MG. Co1 & Ĭ NON THE RIDGE Single 5

a ii

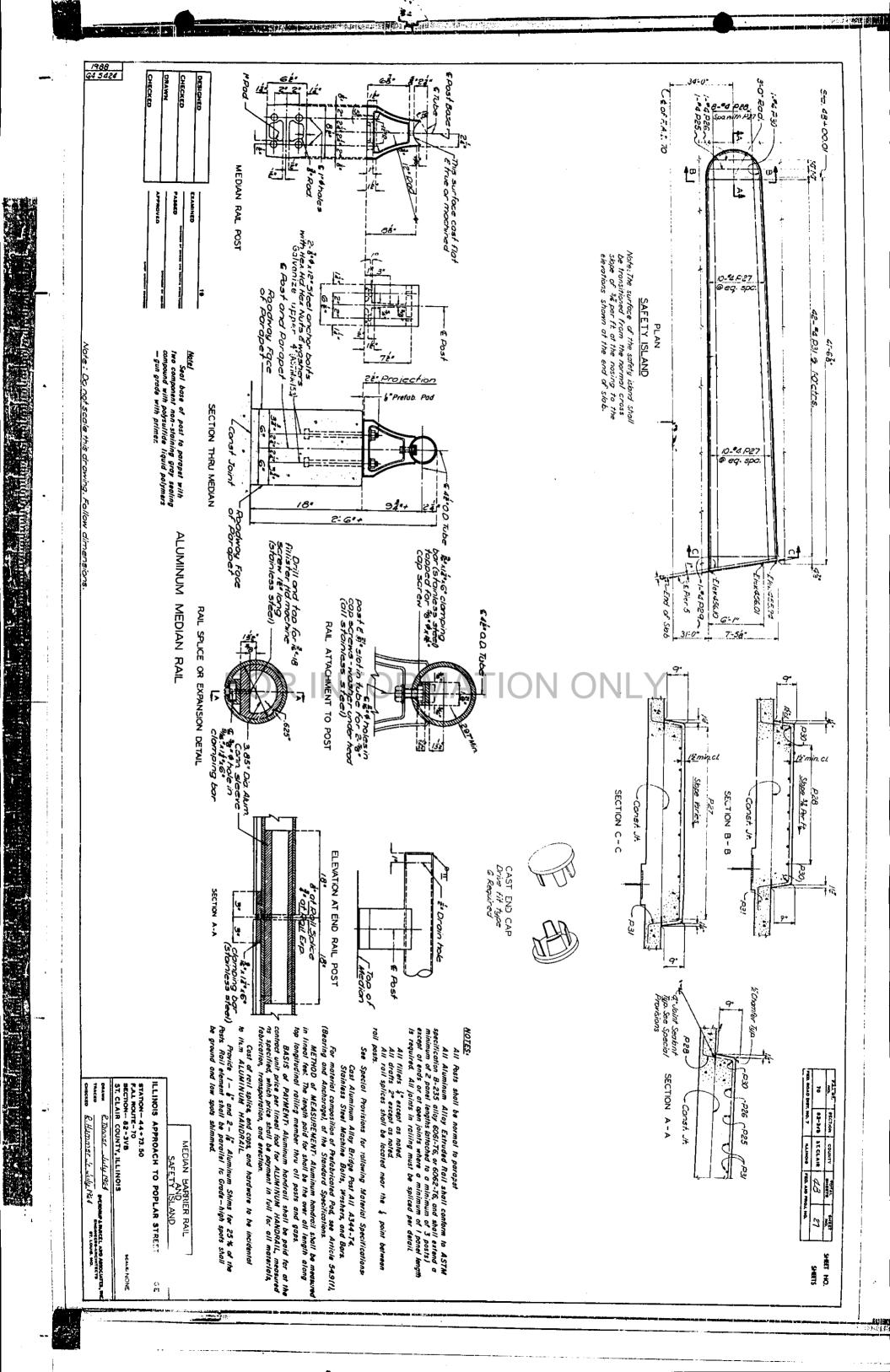
Real type of the deal short shown  Fig. and the deal short shown  Fig. and the deal short shown  Fig. and the deal short shown  Fig. and the deal short shown  Fig. and the deal short shown  Fig. and the deal short shown  Fig. and the deal short shown  Fig. and the deal s	# Special Code 34:0   Special Brown   Special	5.500. @ 191.32=96-52		261-04  189-24
SAFETY CURBS AND PARAPET DETAILS  II LINDIS APPROACH TO POPLAR ST  STATION— 44-73 A.O FAL ROUTE—70 BECTION— 82-3VB ST. CLAIR COUNTY, ILLINOIS  TACED TACED CHECKED G. P. LOGG G. ST. LOUIS BECLIAR ST. LOUIS BECLIAR ST. LOUIS BECLIAR ST. LOUIS BECLIAR ST. LOUIS BECLIAR G. P. LOUIS B. P. LOUIS	SECTION C S S S S S S S S S S S S S S S S S S S	<u>et Peril</u> Omts ** Sheets	b RAIL RT. 70 SEC. 82-7  b Reish  b Reish  LETTERING FOR NAME P  Note: See Standard 213-1  The name parties shall be a concrete parapet as designated and the paraget parties of the paraget shall be a concrete parapet and the paraget paraget shall be a concrete parapet and the paraget paraget shall be a concrete parapet and the paraget paraget shall be a concrete parapet and the paraget paraget shall be a concrete parapet of a design and the paraget p	TODICE  TODICE

Inclination than the desired of the contraction of



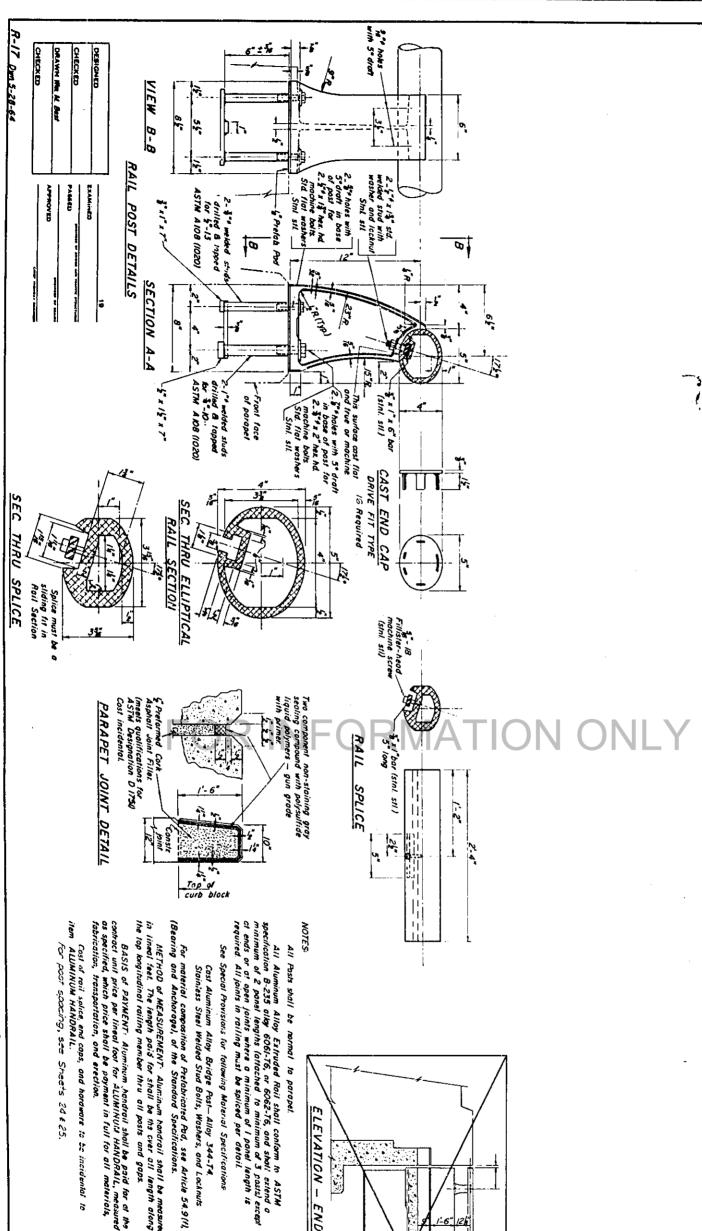
End of Roil 12 19**66** 643883 susting peray Tang letail Lass Dodg <u>څ</u>. Bliff of bearing Bix Expansion Filling 3-84 P49 Motch Line - 2 Conduit -1-65 3.00 PG7 7 5-84 0477 5.44 0437 G'4" 2300 7.7.52" S.March Line 4.45 1296 3.4 DAZ7 5-4000 V-6" T45040 8 300 @ 8'O" · 64'O" 5 spa @ 17:8" 88:4" 20:50 ġ, 11:0" 73.4 046 75.14/26 3.00 12077 ), O 5.44 Pa77 5 300. \$ 18.6" + 98.6" C3-04 P43 -5-84 1043 14 500 @ 8:0" 112:0" 11 500 @ 8'0" = 88'0" 1,0, SECTION B-B 112:38 11:0 Ž, 2.45,040 50" 4 500.0 7:9" = 3/:0" Lexisting Parabet THE LIGHT Stondard 3-84 0477 5.04 Pa77 E & Orio Norch F 3-44 D42 -5-44 P42 -fastbound Curb 254.44 P.S.I in Eastbound Curb & 254.84 P.52 in Mestbound Curb @ cbt. 1-0' 3.4P44 (5.44 PM -) 14.45 P.37 3-84 DAS 7 3-80A87 3-80A87 13-84 PAGT 5-40 DAS 7 7.0. MEDIAN CURB, 244- 4 PSI in Eastbound Curb 4-15 P367 252. #4 DSI in Eastbound Curb e 252. #4 D52 in Westbound 11-6" E44.45 PSO a obt 110" a 58.45 PSO to be placed in pairs at each Post 254.45 PSO @ obt. 1:0" & GG-45 PSO to be placed in pairs at each Past 4-15/2337 4-15/2337 252-85 F50 @ not. 1-0" and G4-85 P50 to be 5-4 DUB 7 5-4087 (5-40 DUG) G \$∞. @ /95G" = //750" 06,00 0:00 0:00 St. B.S. 4 spa @ 7:7" 30'-4" 3 500 \$ 76° 22'0" 5 500 \$ 8'0" 8t'0" 3 500 \$ 78"2250" 0.00 PART ELEVATION PART ELEVATION -3.04 10427 73.04.645 3.04.0417 -5.4P4S PARAPET AND HANDRAIL PART ELEVATION 5-04 0427 13 soo. @ 8:0"= 117201 6534-34 Yorke: Do not scoke 25/: 98" 243-2 7,0 "'O" //'O" 5-40001-A 4.15 P35 11:0 844.84 DS2 in DEC 58-7this drawing. 4.45 P.36 > 5.14 Paz 7 C 3-84 P42 5-14 047 placed in parts of each Mestbound Curb @ oot 1:0" Note: Cost of Purnishing and placing conduit to be incidental to the cost of Class X concrete Follow dimensions 500. 8 17:36 - 105'-75" SOO. @ 8:0": 96:0" C 3-84 PAI 7 500 @ /9:6" 97:6" S-14011 -45 13511 Curb & obt. /10\* (3-14 PAG) (3-14 PA4) -5-44 PAZ //<u>-</u>O" 11:0 Cogn 7.6" 8 300. 08:0" = 64:0" 4.45 6.377 11:6" 11:6" 7:6" (5-14 PAG) 4 500. @ 8-6": 3¢ 11:60 1+ 45P39 Section D.O Street 24.
Section D.O Street 24.
Section D.O Street 24.
Section accord as shown or noted. Note: Hestbound Curb some is Eastbound Curb except as shirm or nated. C3.64/048 4.05 6367 445 0407 5-84 1042 g. #4/04/7 5-94/04/7 17:80 New York Control of the Control of t P477 10077 ģ A 100 PM 74 Roll post Spacing Longit Reins Aluminum Stacts in Curb
Eastbound Curb
Longit Reinf.
Curb Tas \* Poropet Ties 2 Match Line Aluminum sheets in curb Eastbound Curb Longit Reint b" Filled Jts. in Parapet Curb Ties Longit Poropet Reinf. & Corrost Ties Costbound Curb
Languit Reins.
3" Curb Ties Westbound Curb Longit Reinf. Higgier 5 A of & Filled \* Poil post Specing s End of Rail and End of Slab Langit Dareiset Reins in Darapet Longit. Paramer Awar Coracer ies in Curb Sheets of Westbound Curb Largit Reins Median Barrier Pol Bost circle Da sié (Conc. Ave) ILLINOIS APPROACH TO POPI STATION - 44+73 50
FAL ROUTE-70
SECTION - 82-3VB
ST. CLAIR COUNTY, ILLINOIS Concrete Dale 4646 200. 500. GERIVERO Stilly 1964 Mode: Detail of and of ELEVATION of Coil of ands of ELEVATION Christon similar. EL Bornes June 184 053 Hestand Curb tostand Curb LIGHT STANDARD SUPPORT DETAILS MEDIAN DETA e of i filled joint in paraget TYPICAL SECTION Archar Bolle 1.5. ( 10. Charace o, o, Level PLAN Sec Sec 50 S & Light Standard organias suppose cost End Cap 987 NO. SNOWENS BRIDGE

The state of the s



DEPARTMENT OF PUBLIC WORKS & BUILDINGS





EVATION - END POST  $\overline{\Delta}$ SEC THRU CURB

All Aluminum Alloy Extruded Roil shall conform to ASTM specification B-235 alky 6061-16, or 6062-16, and shall extend a minimum of 2 ponel lengths (offacted to form) of 3 posts) except of ends or at open joints where a minimum of 1 ponel length is required. All joints in railing must be spliced per detail.

See Special Provisions for following Material Specifications

MONTHUM

MATERIAL

Unit Owentify

METHOD of MEASUREMENT. Aluminum handrail shall be measured in lineal feet. The length paid for shall be the over all length along the lop longitudinal railing member thru all posts and gaps.

BASIS of PAYMENT: Aluminum handrail shall be paid for at the contract unit price per lineal foot for ALUMINUM HANDRAIL, measured as specified, which price shall be payment in full for all materials, fabrication, transportation, and erection.

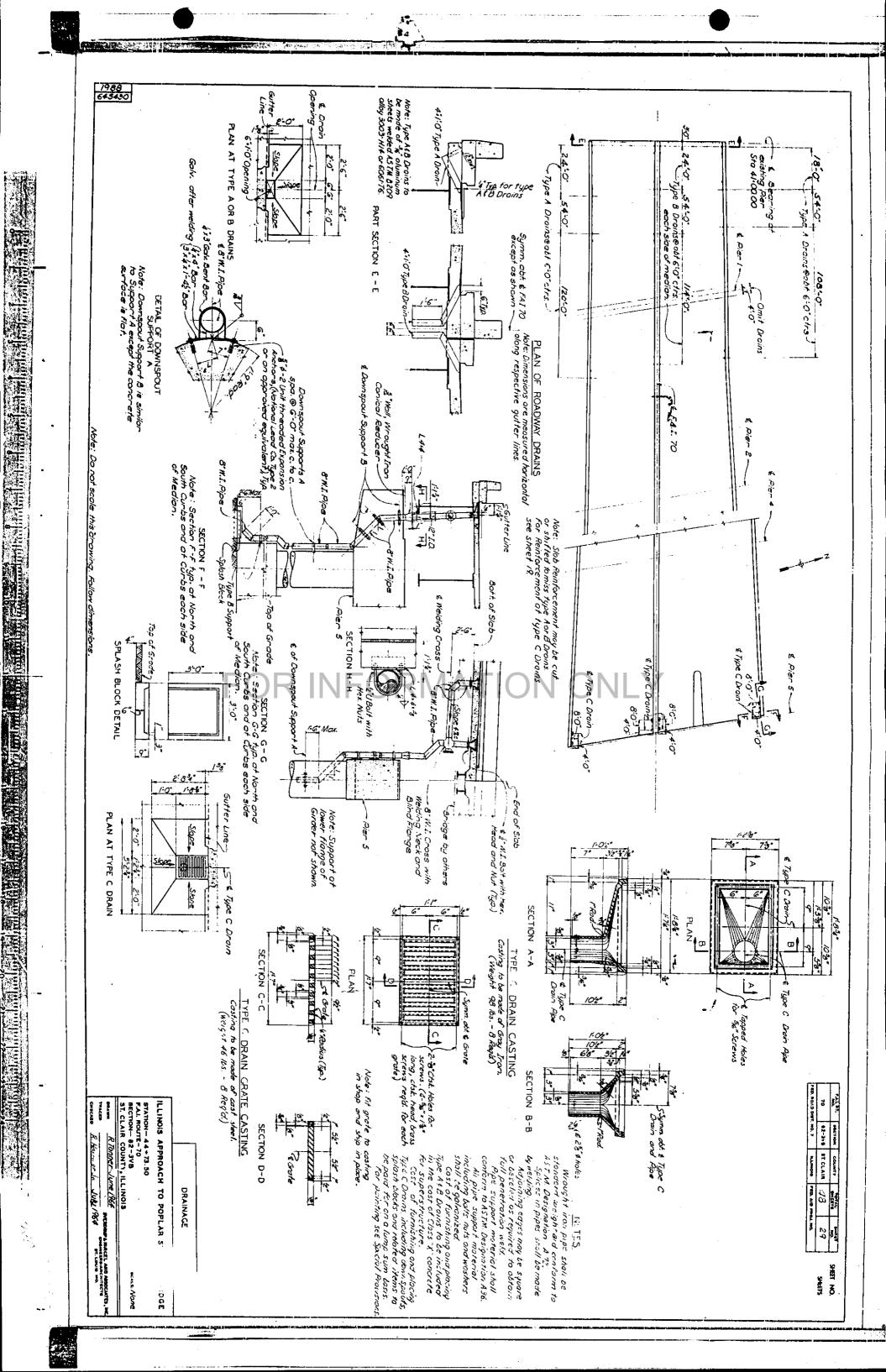
25

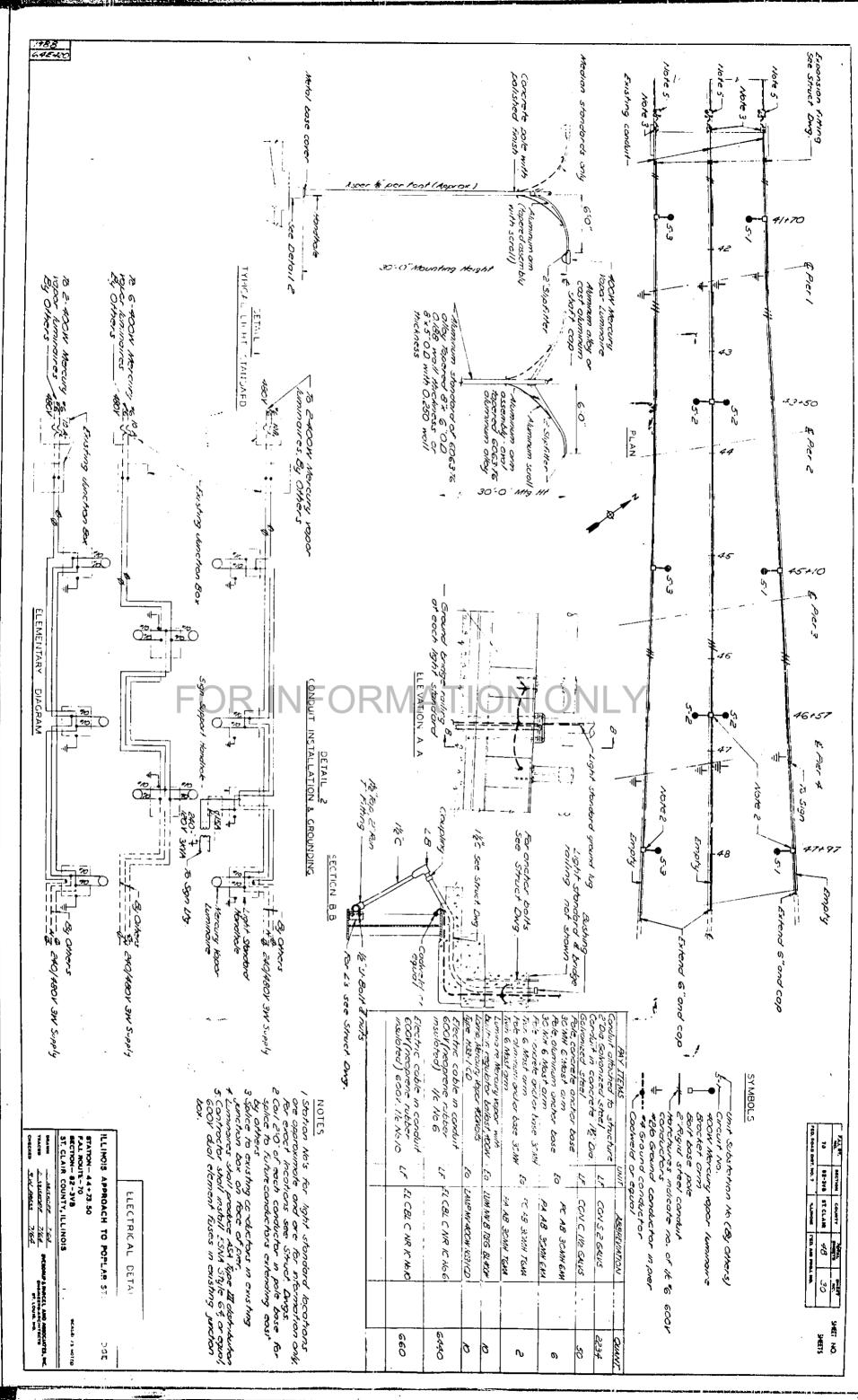
ALUMINUM HANG

re to be incidental to

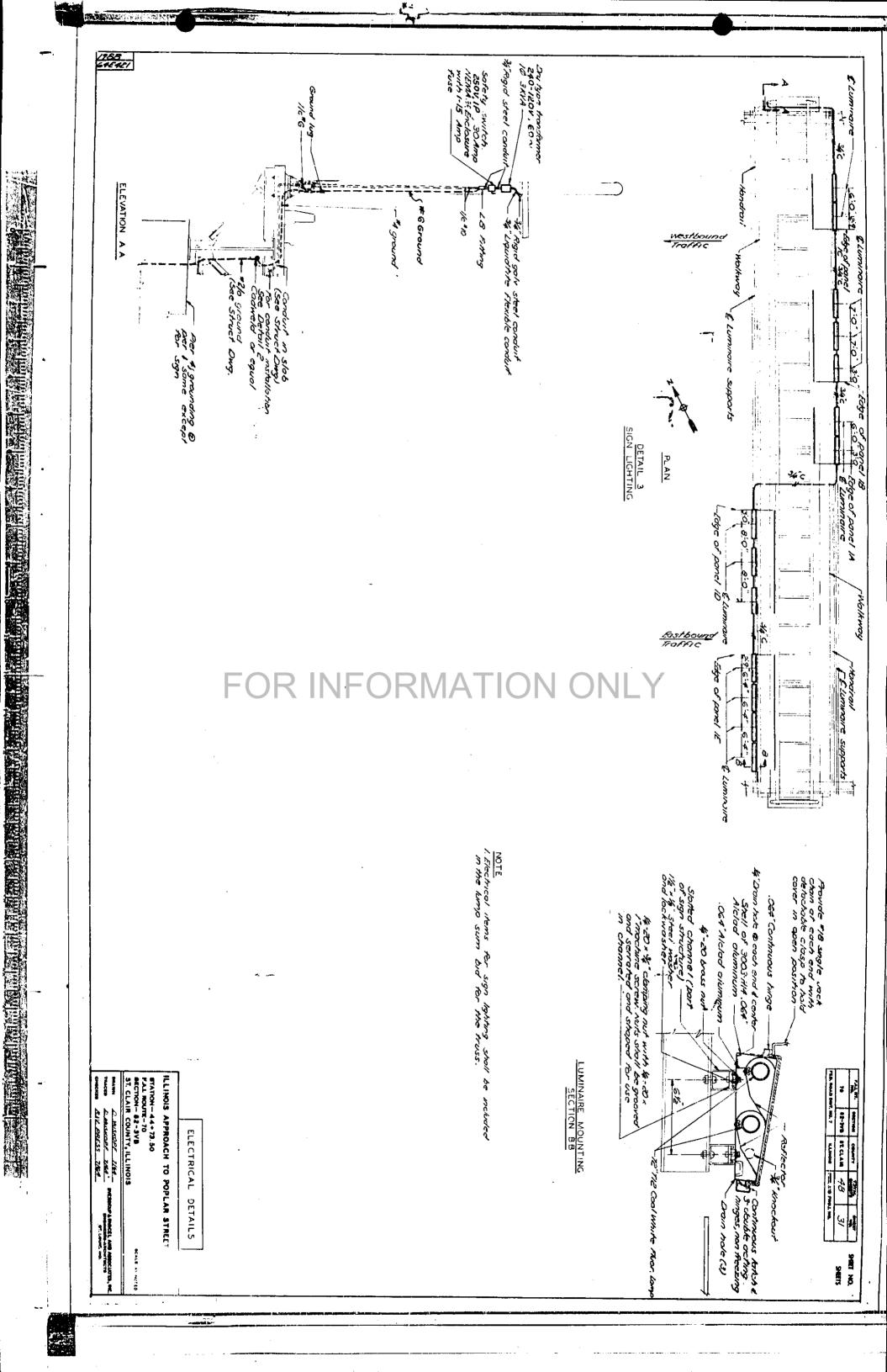
For post spacing, see Sheets 24

LEADER MAINTENANT OF THE MENTER OF THE PROPERTY OF THE PROPERT





The state of the first of the f



NO BIES CHOTH WAR TYPE LOCATION A B C D G H K R O REO'D NO LENGTH MARK THE LOCATION D G H K R O MENDING TO LENGTH MARK TYPE LOCATION C D G H K I 1 1 2 0

SHET NO. \$1136

BAR LIST

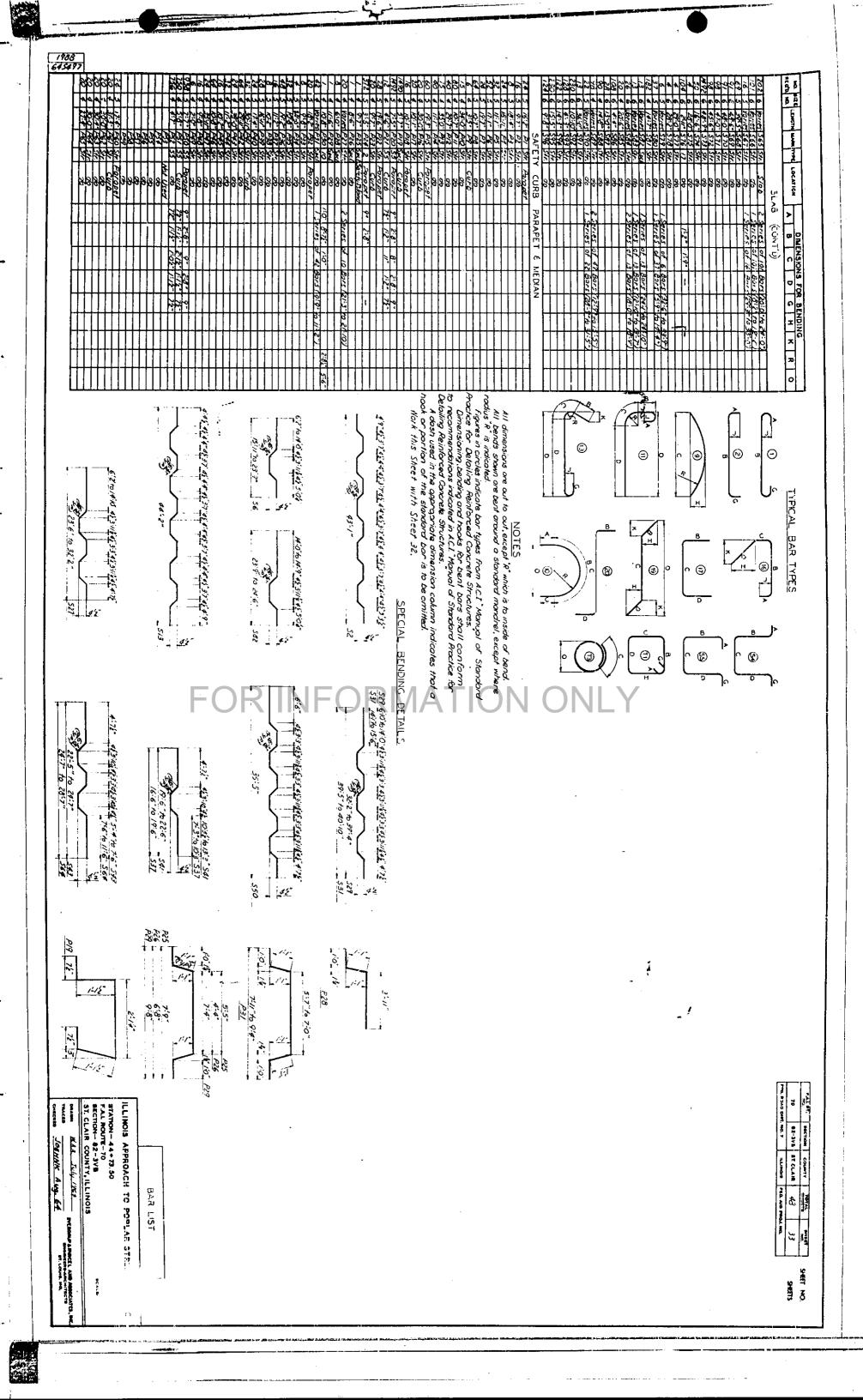
فكوج والإرازي والإرازي والمرازي والمرازي

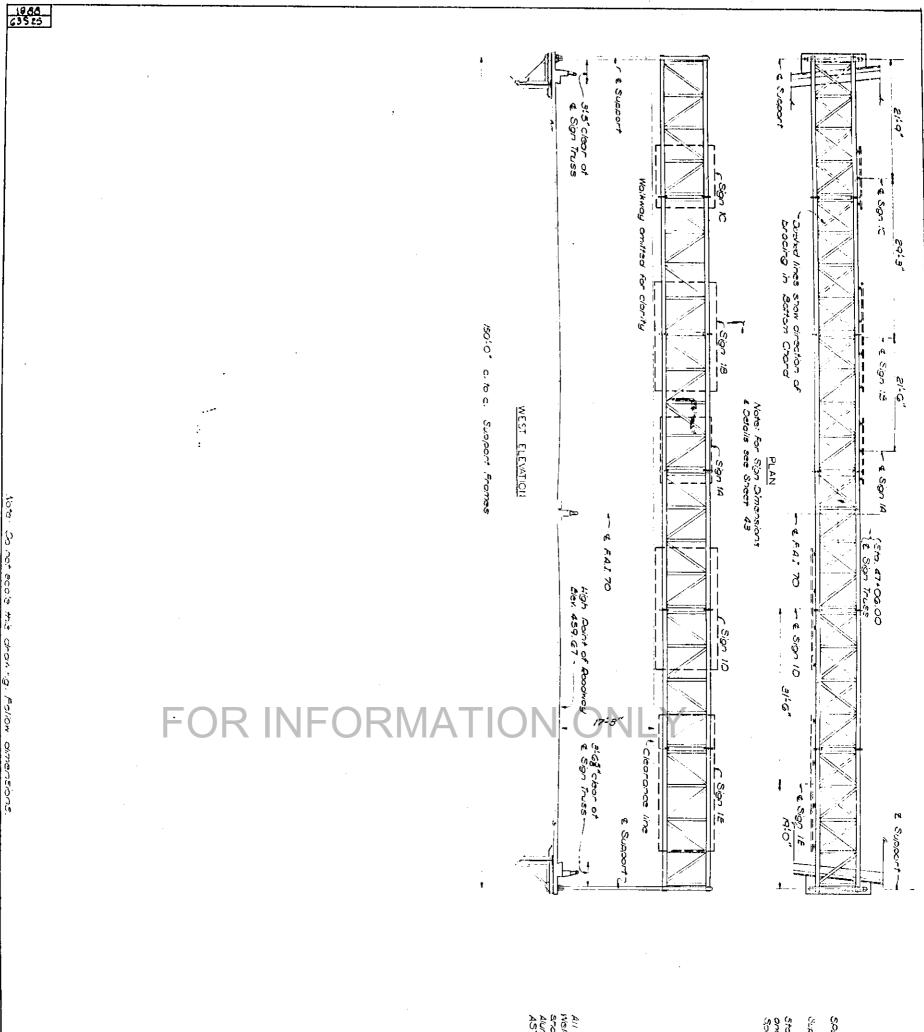
ILLINOIS APPROACH TO POPLAT

្ ត **ព** 

FALROUTE TO
SECTION - 82-37B
57. CLAIR COUNTY, ILLINOIS
DAMM N. 15 - Joly 1944 Mg. 64
CHECKO HOEMEN AUG. 64 1

SYCHOCUP & PARCEL AND ASSOCIATES, PK.
REGINEERS-ARCHITECTS
BY, LOUIS BO.





FED. POAD DWT, NO. 7 RALINOIS FEEL AND PROJ. HO. 70 88-100 COUNTY NOTICE MARY

SHEET NO.

CHES

SIGNING NOTES

SPECIFICATIONS:

DESIGN: AASHO Specifications for the Design and Construction of Structural Supports for Highway igns acted Kweniker 1960.

CONSTRUCTION: Standard Specifications for Road and Bridge Construction, State of Illinois, added January 2, 1958; Supplemental Specifications for Road Bridge Construction acted March 2, 1974 and Supplemental Specifications for Highway Signing dated Murch (1963 and Special Dravisians.

LOADING:

WIND LOADING: 30 Design Span José Parel Area (9.0 ft sign height x 75 % Design Span Joks 7.5 pest normal to sign frust conduction)

WALKMAY LOADING: Dead Load + 500 ft Concentrated Live Load UNIT Structural Steel — 16,000 pest.

Structure/ Aluminum: per AASHO Specifications for Alborate unit stresses alle to wind load in combination with other forces are increased 145

Milliam Clearance: lectical Roceway Clearance: 17:3\*

Sign TRuss Linits should be off welded construction.

WELDING: All velaing to be continuous unless otherwise shown.

All relaing to be made in accordance with current AMS Specifications.

Welding on ASTM A:36 Places and Shapes or ASTM A 33-431 Grade B Pipe should object white for welding aluminum shall conform to ASTM B:2856

ASTM B:2856

MATERIALS: Aluminum Alloys as shown in

MATERIALS: Aluminum Alloys as shown throughout plans.
All Structural Steel Pipe sholl be ASTM A 53-63T Grade B with a minimum yield of 35,000 p.s.i.

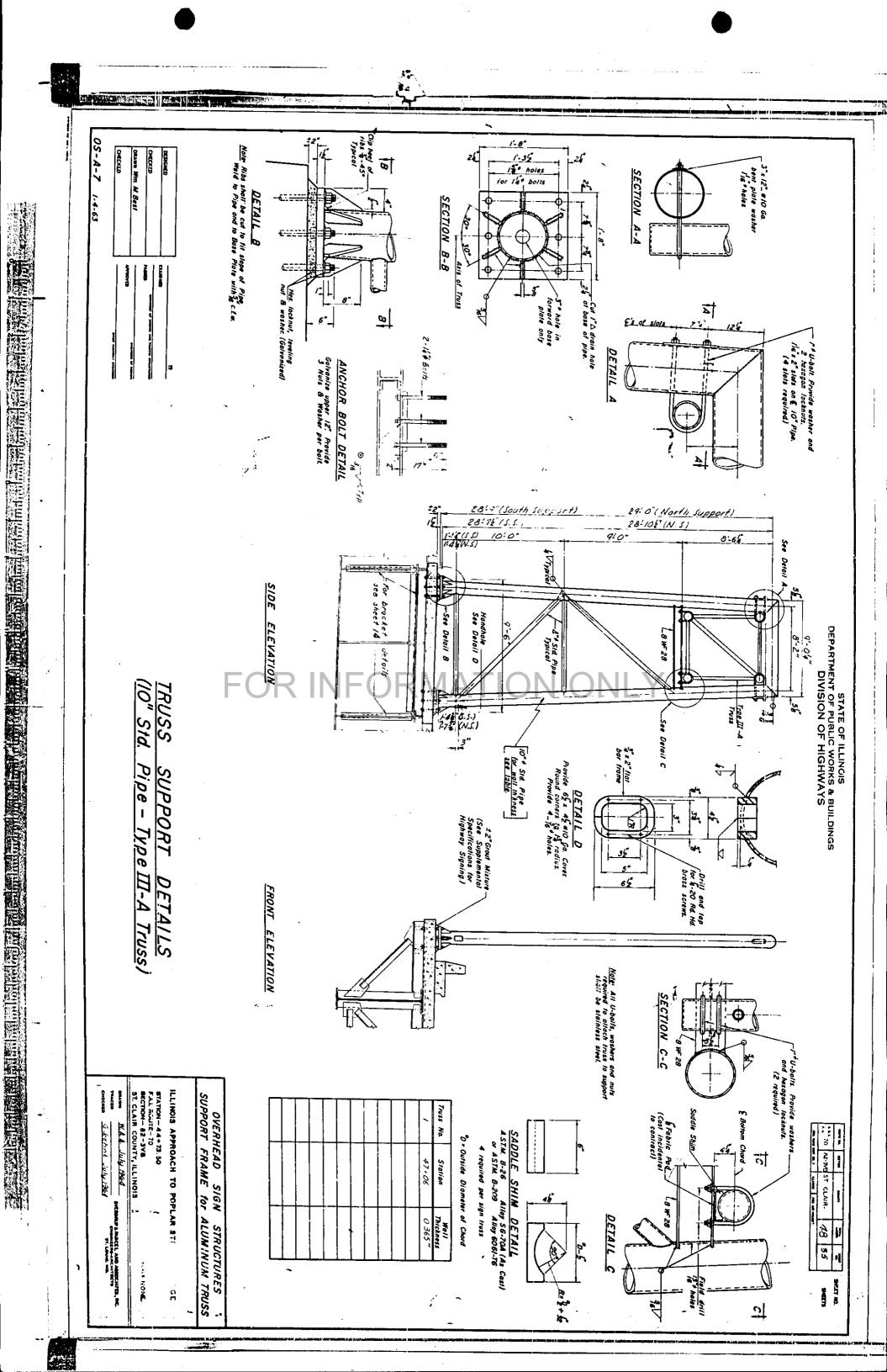
PLAN AND ELEVATION -

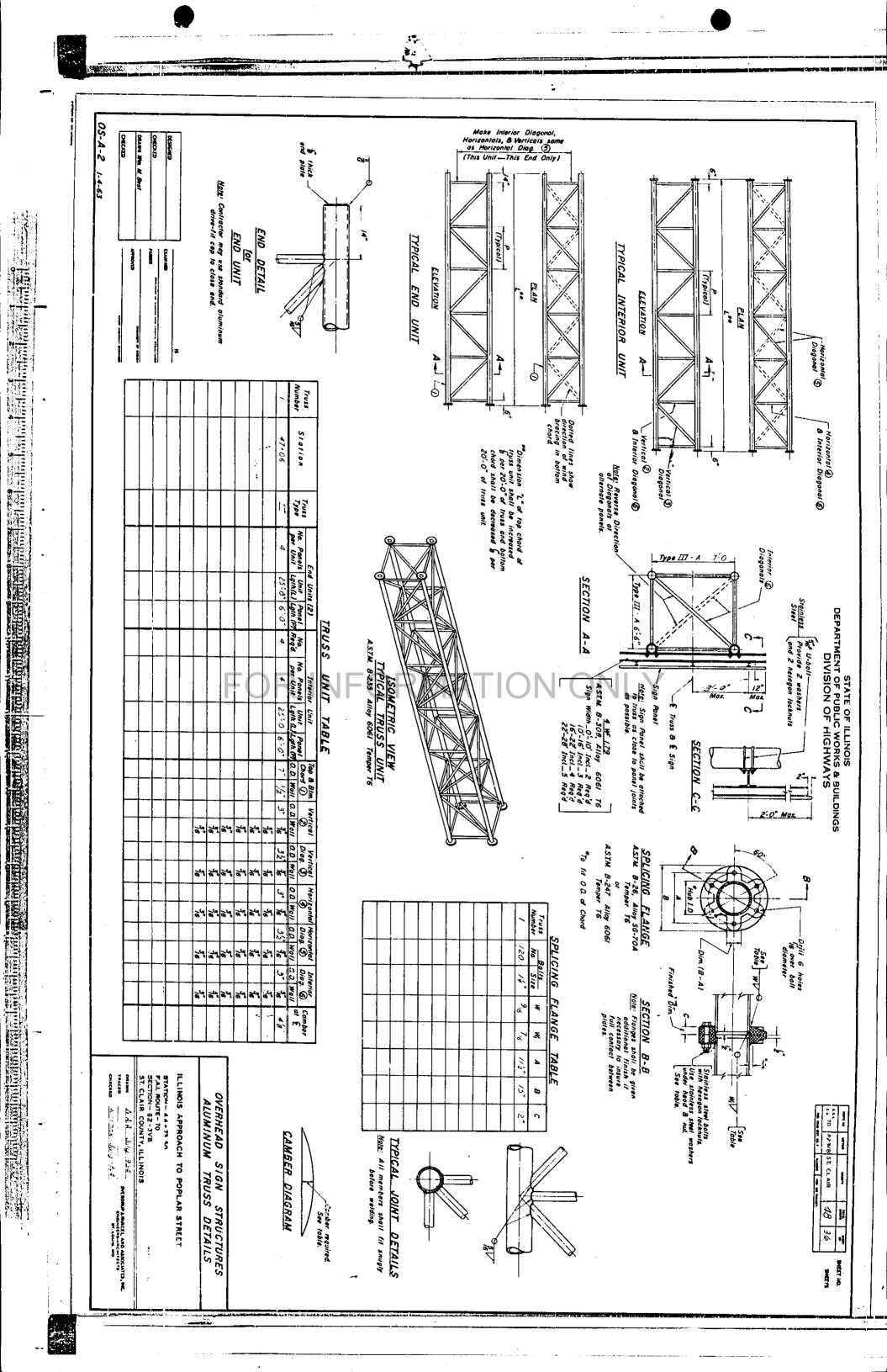
ILLINOIS APPROACH TO POPLAC

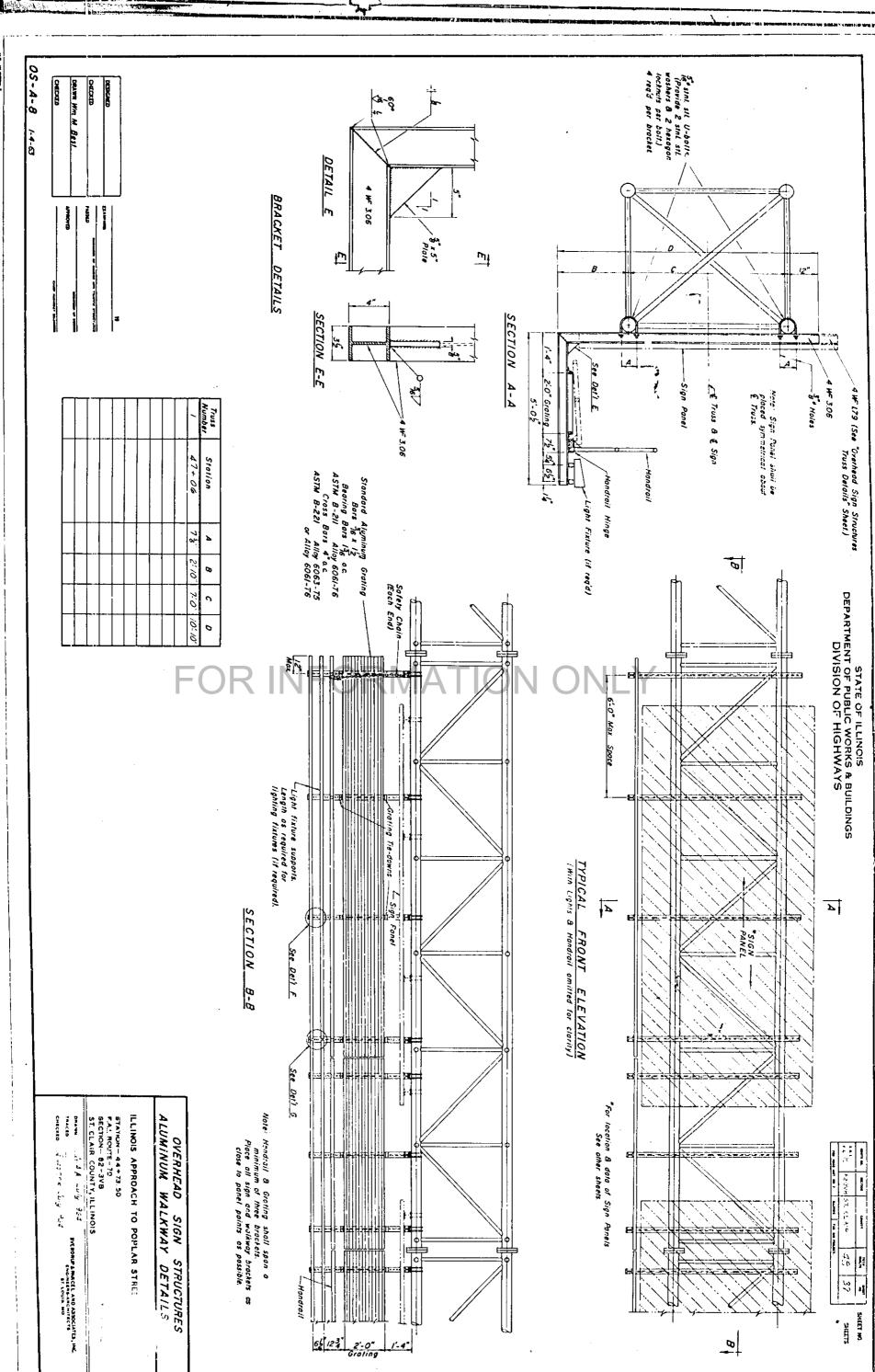
STATION- 44+73.50
FALL ROUTE-70
SECTION- 82-3VB
ST. CLAIR COUNTY, ILLINOIS

SALE: NONE

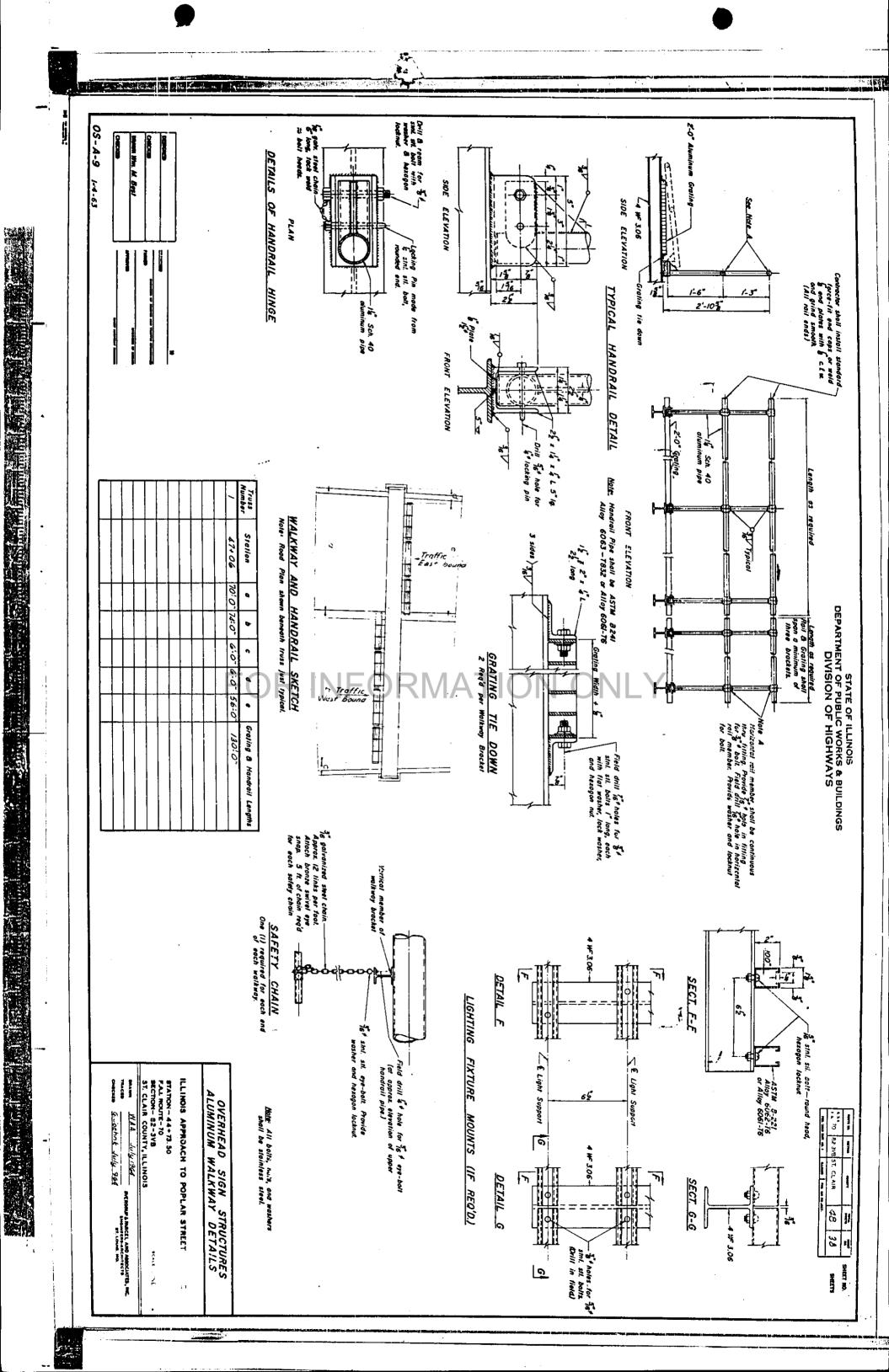
R. Hail & Gubernak, July 1964 EL Bornes, July Rea SACHDANE S SWYCET VARD WESCHLES WE ENGINEERS WHO WEST SEASON SEAS

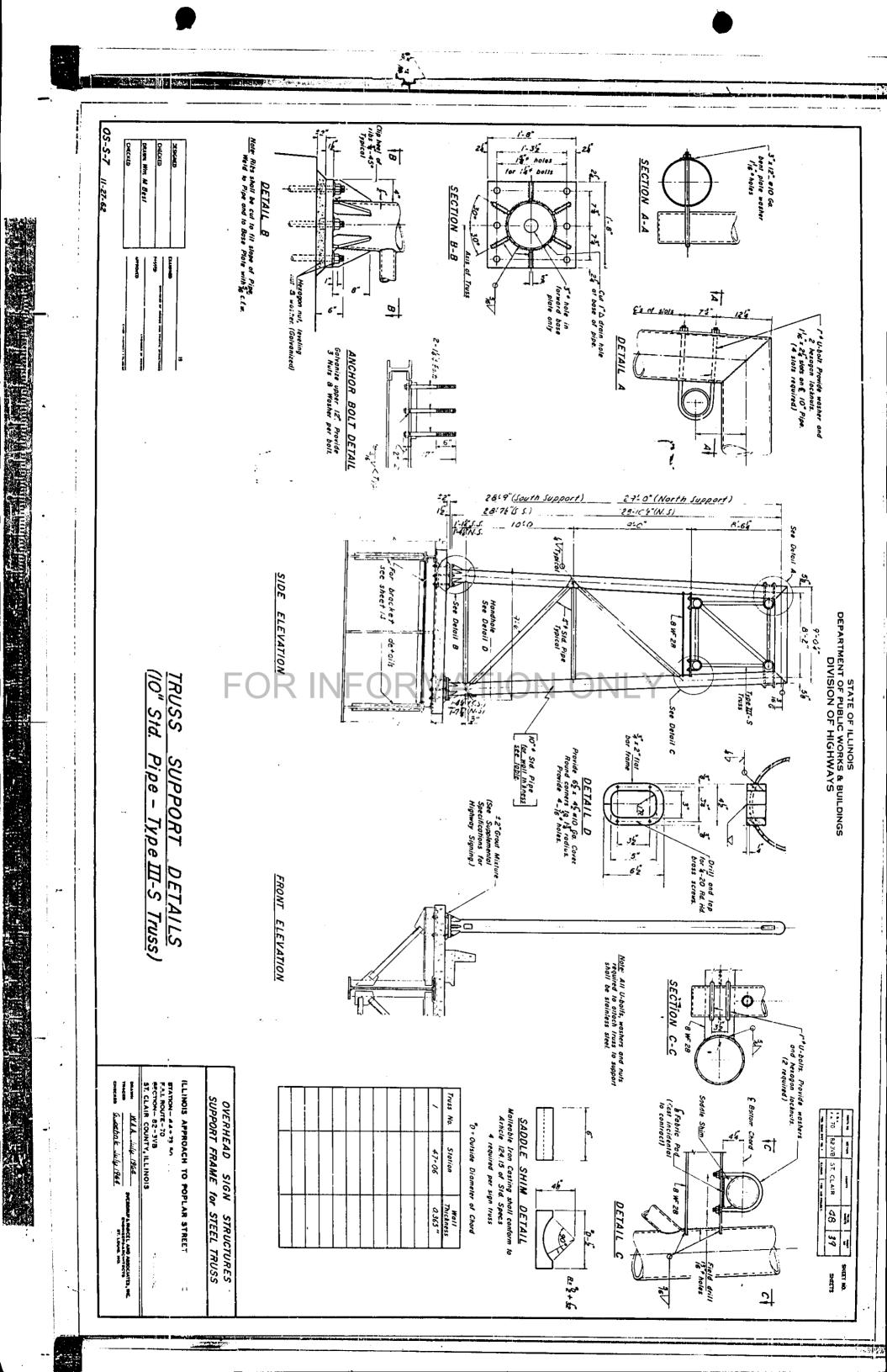


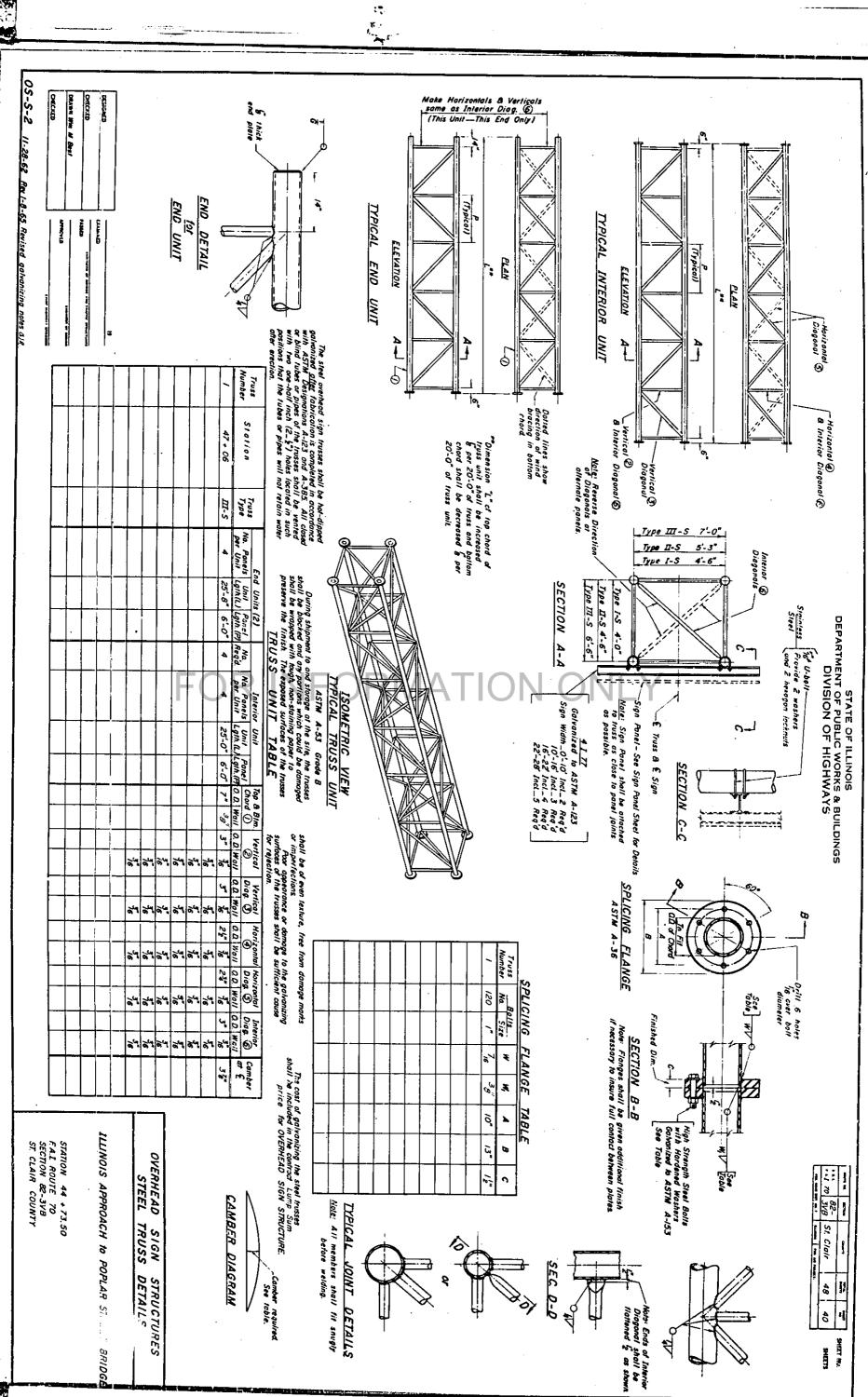


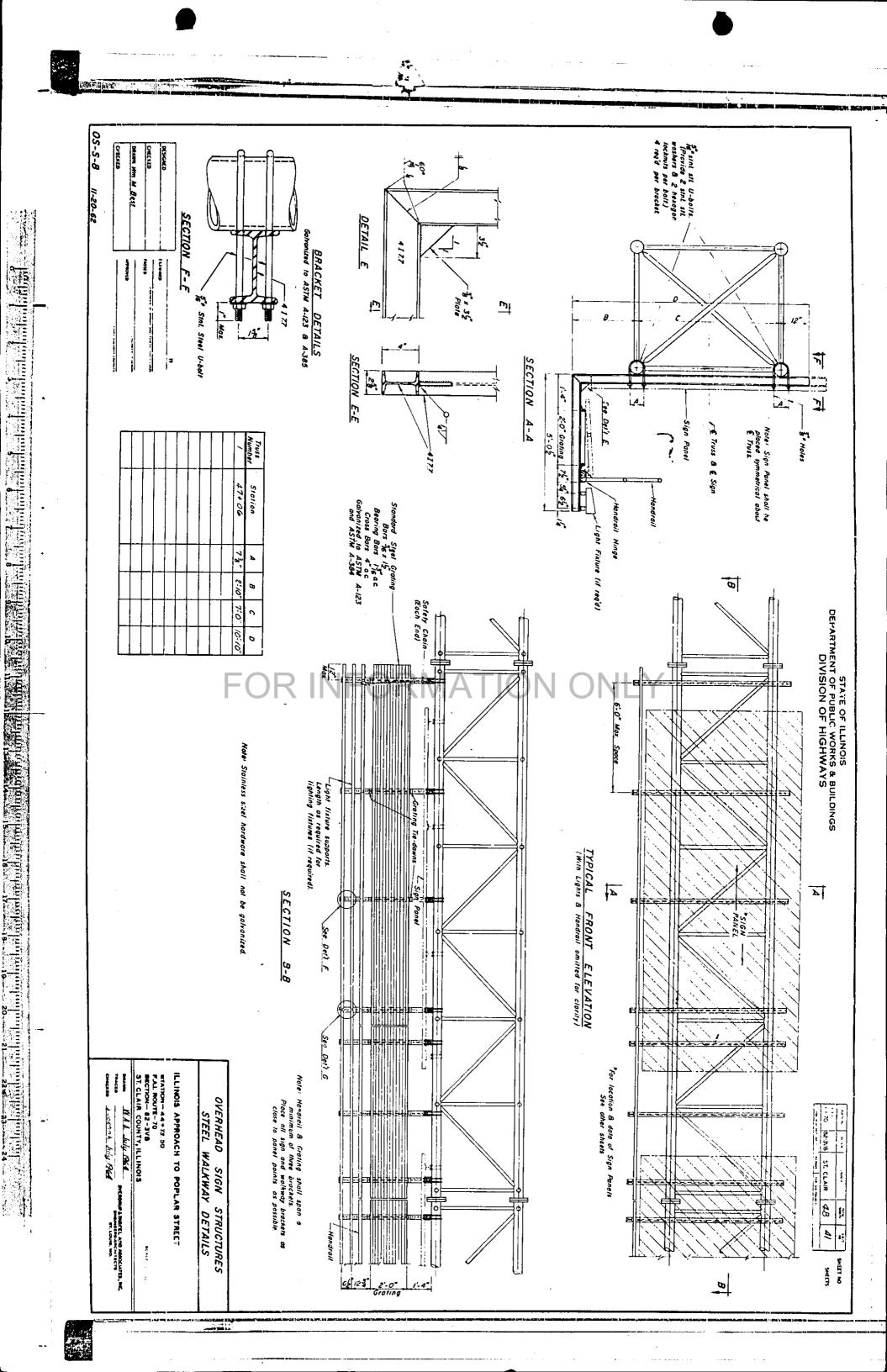


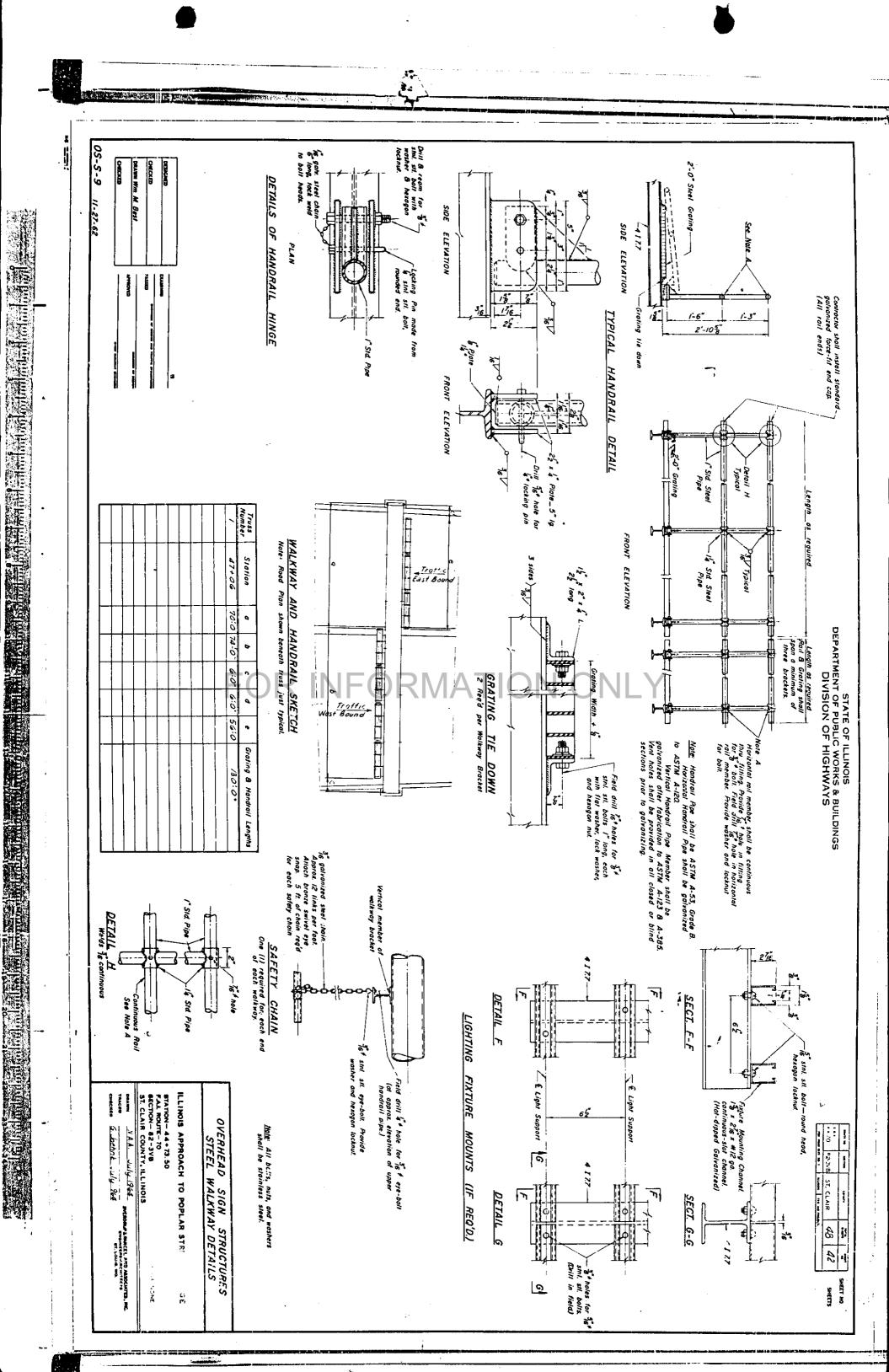
يتو وفضات المومدان المطبيق تدبيرها ومستعود يقد المضمين بعاضها إيسيان عالمتك فيسبب مؤود فيقات مناسبته مومود بالمهام الكياب

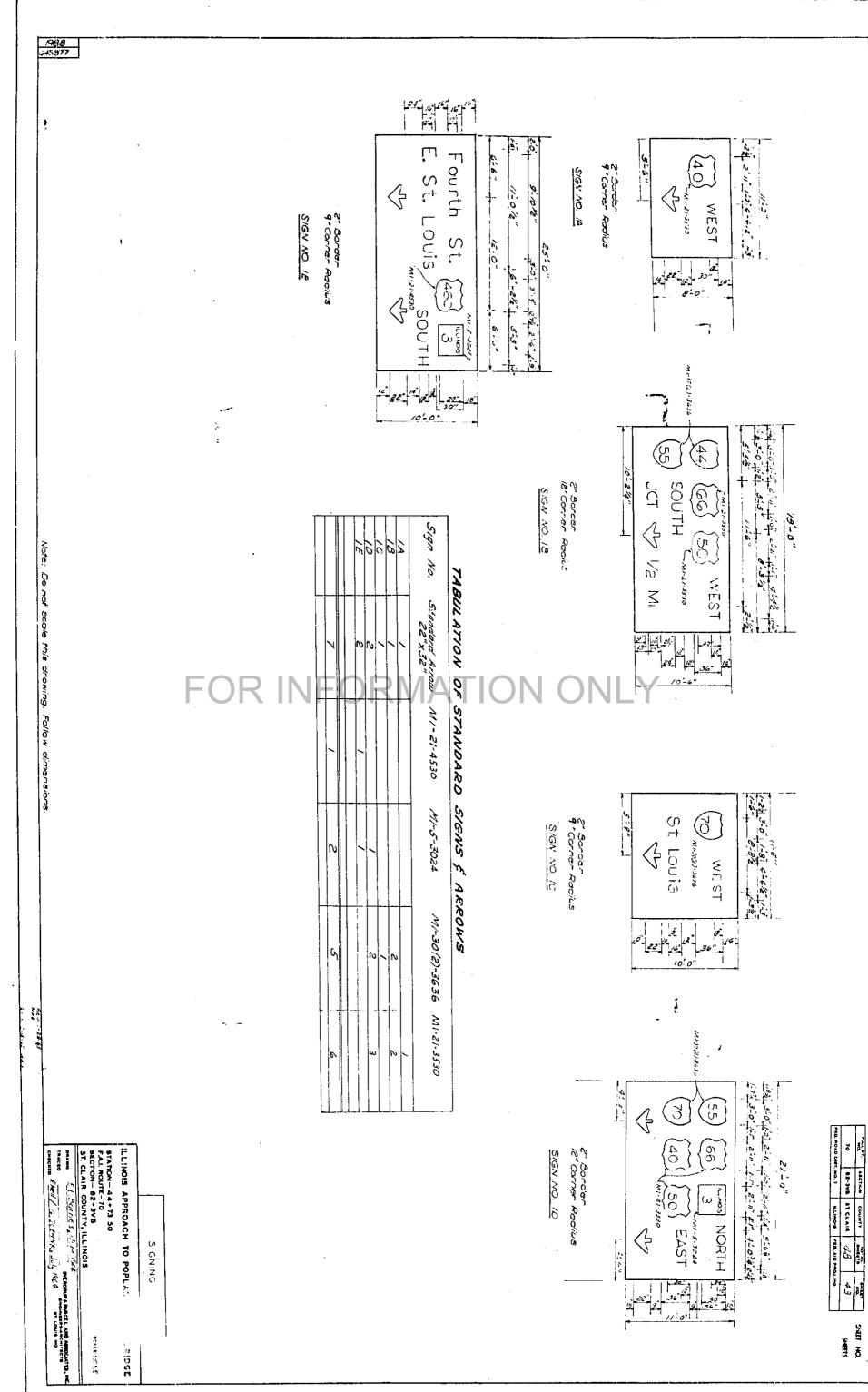












(時界

1. 2. 3. 4. 5. 6. 9. 10. 11. 12. 13. 14. 15. 16. 17. 19. 19. 20. 21. 22. 23. 24.

SLEEFS ON LERS