

7/14/87

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED
FEDERAL AID HIGHWAY
F.A.P. ROUTE 607 (US 52)
SECTION 124 BR
LASALLE COUNTY
PROJECT BRF-607(59)

F.A.P. 607	124 BR	LASALLE	28	1
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P-93-015-79



LOCATION OF SECTION INDICATED THUS: —

1986 ADT = 1050 AREA SERVICE
P.C. = 81.0% S.U. = 7.3% M.U. = 11.7%

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED: 7/24 19 87
R. J. Bauman DISTRICT ENGINEER

EXAMINED: 9-11 19 87
W. J. Shaw ENGINEER OF PLANS AND CONTRACTS

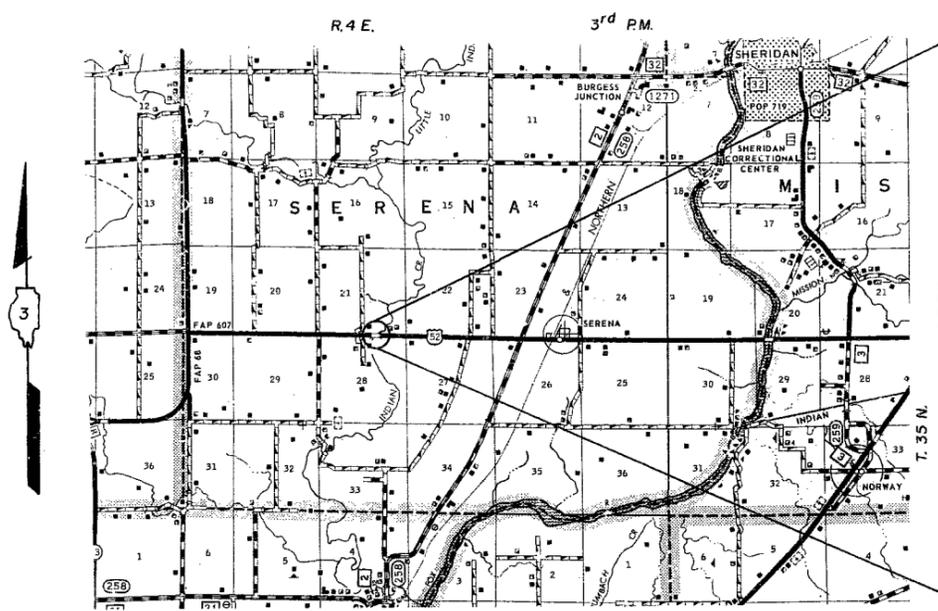
PASSED: 9-11 19 87
W. J. Shaw ENGINEER OF DESIGN

APPROVED: 9-11 19 87
W. J. Shaw DIRECTOR, DIVISION OF HIGHWAYS

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 2. TYPICAL SECTIONS, DETAILS
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C - 93 - 002 - 88

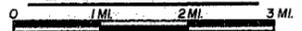


SECTION 124 BR BEGINS AT STA 108 + 00

SECTION 124 BR INCLUDES THE CONSTRUCTION OF A 3 SPAN CONTINUOUS STEEL PLATE GIRDER BRIDGE 398'-0" BK - BK. ABUTMENTS: 30'-2" O.-O. DECK, SKEWED 37°-31'-35" LEFT AHEAD.

SECTION 124 BR ENDS AT STA 120 + 00

LOCATION MAP



GROSS & NET LENGTH OF SECTION = 1200.00 FT = 0.227 MILES

Harold P. Wendler
 HAROLD P. WENDLER
 REGISTERED PROFESSIONAL ENGINEER
 ILLINOIS
 7-22-86

SQUAD LEADER: BRAD CRESTO
 PROJECT ENGINEER: GREGG MOUNTS
 CONSULTANT: HAROLD P. WENDLER AND ASSOCIATES, INC.
 JUL.I.E. NO. 800-892-0123
 TOWNSHIP: SERENA

CONTRACT NO. 42892

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

P-93-015-79

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PLANS FOR PROPOSED
FEDERAL AID HIGHWAY
F.A.P. ROUTE 607 (US 52)
SECTION 124 BR
LASALLE COUNTY
PROJECT BRF-607(59)

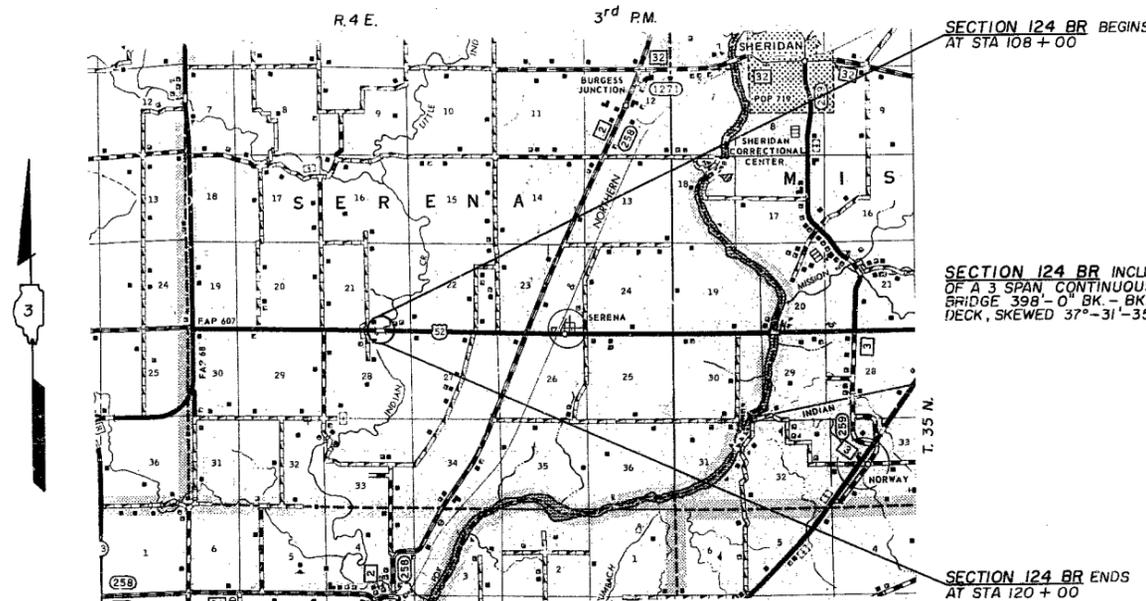
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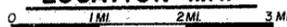
LOCATION OF SECTION 124 INDICATED THUS: —

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LOCATION MAP



GROSS & NET LENGTH OF SECTION = 1200.00 FT = 0.227 MILES



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED: 7/24 1981
R. J. Berman DISTRICT ENGINEER

EXAMINED: _____ ENGINEER OF PLANS AND CONTRACTS

PASSED: _____ ENGINEER OF DESIGN

APPROVED: _____ DIRECTOR, DIVISION OF HIGHWAYS

SQUAD LEADER: BRAD CRESTO
PROJECT ENGINEER: GREGG MOUNTS
CONSULTANT: HAROLD P. WENDLER AND ASSOCIATES, INC.
J.U.L.I.E. NO. 800-892-0123
TOWNSHIP: SERENA

CONTRACT NO. 4 892

Run for 10/16/87 setting

7/14/87

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

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FEDERAL AID HIGHWAY

F.A.P. ROUTE 607 (US 52)
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LASALLE COUNTY
PROJECT BRF-607(59)

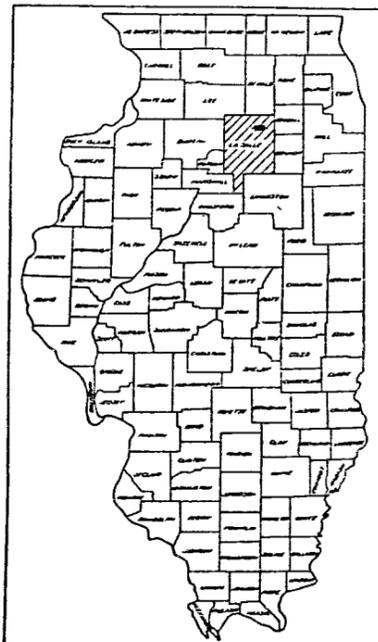
C-93-002-88

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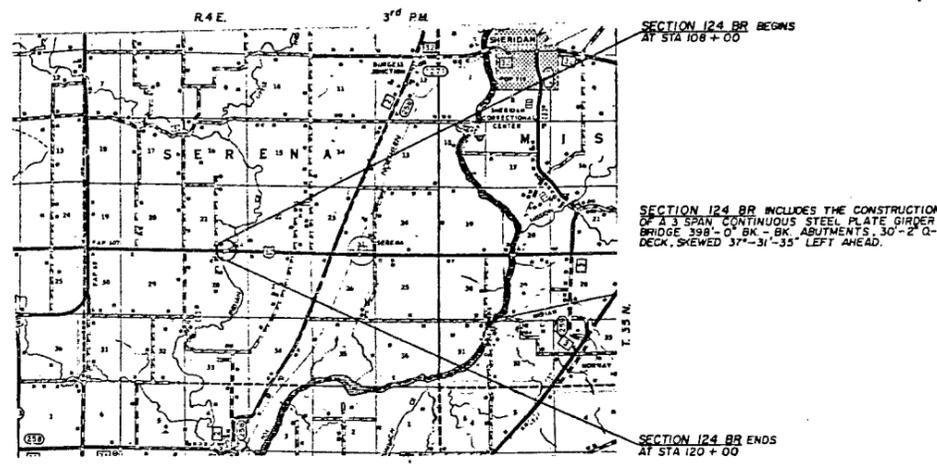
F.A.P. 607, 124 BR	LASALLE	2 B	118
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P-93-015-79



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED: 7/24/87
EXAMINED: [Signature]
PASSED: [Signature]
APPROVED: [Signature]

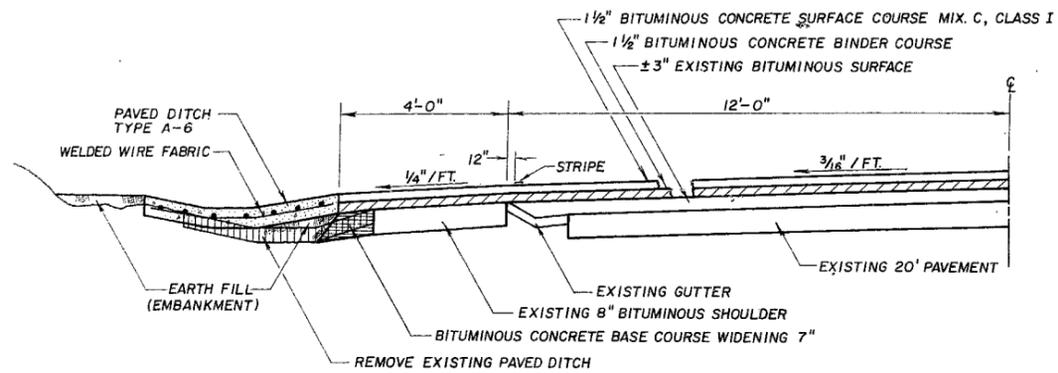


SQUAD LEADER: BRAD CRESTO
PROJECT ENGINEER: GREGG MOUNTS
CONSULTANT: HAROLD P. WENDLER AND ASSOCIATES, INC.
JULIE NO 800-892-0123
TOWNSHIP: SERENA

CONTRACT NO. 41891

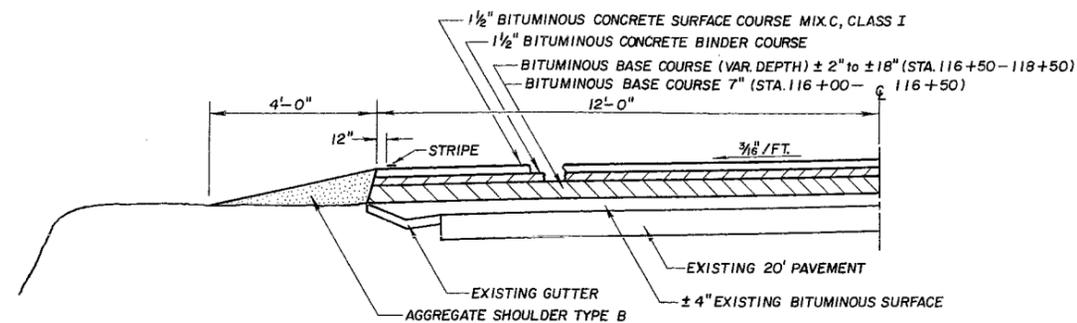
LASALLE COUNTY SECTION 124 BR F.A. ROUTE 607 (US 52) As Revised 11-16-87 L.W. As Revised 4-20-88 L.W.





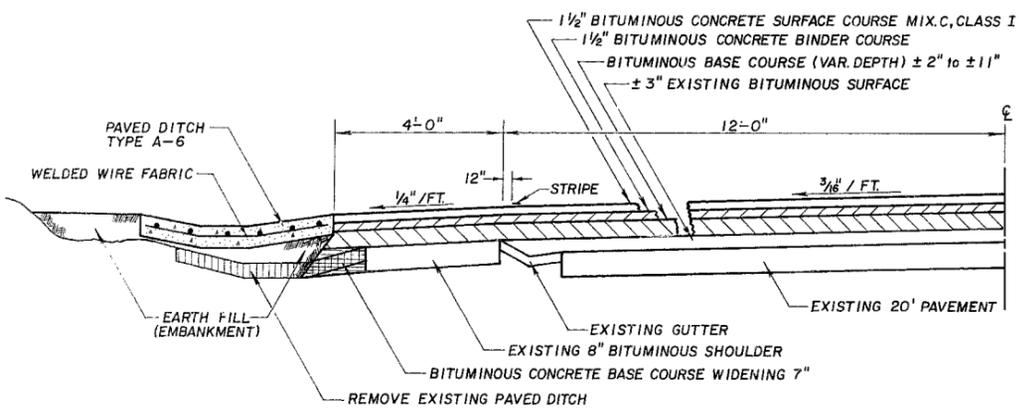
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STA. 107+75-109+00



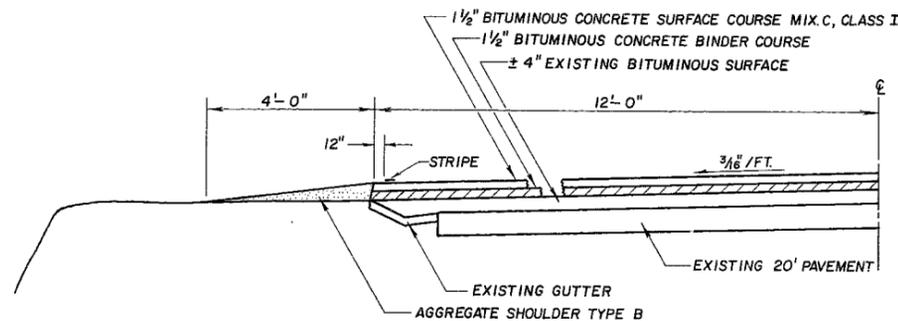
TYPICAL ROADWAY CROSS SECTION NO. 4

STA. 116+00-118+50



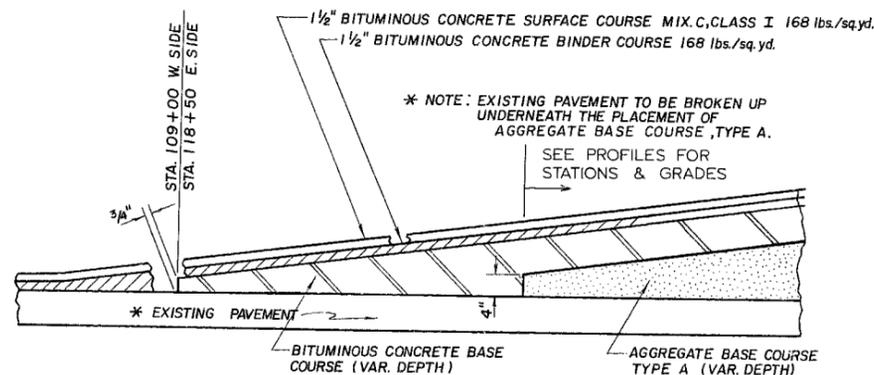
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STA. 109+00-109+50

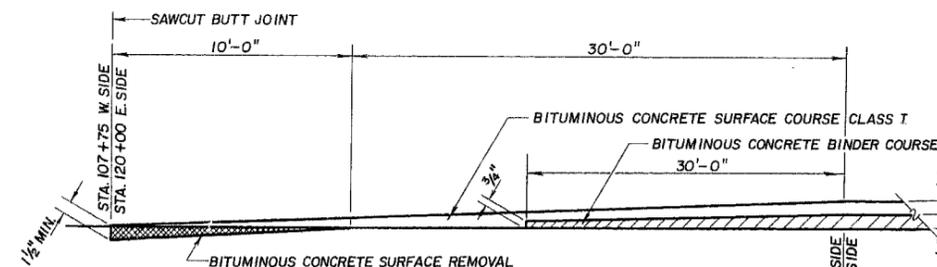


TYPICAL ROADWAY CROSS SECTION NO. 5

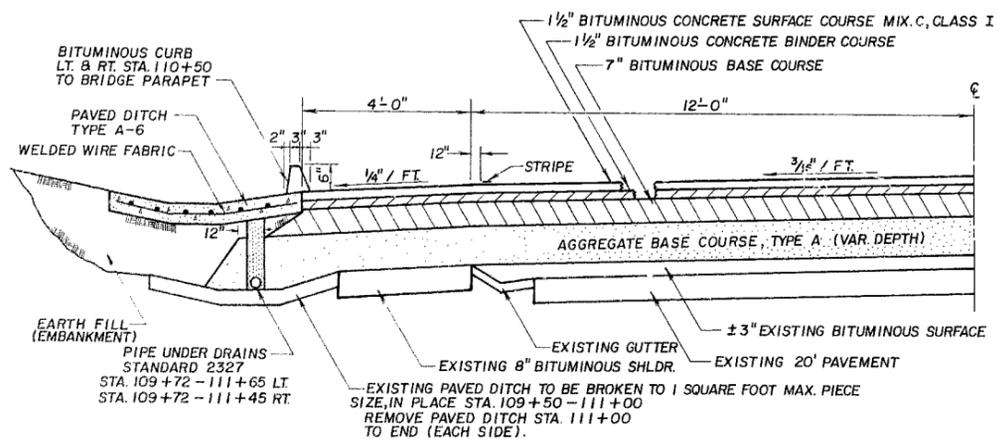
STA. 118+50-120+00



TAPER DETAIL

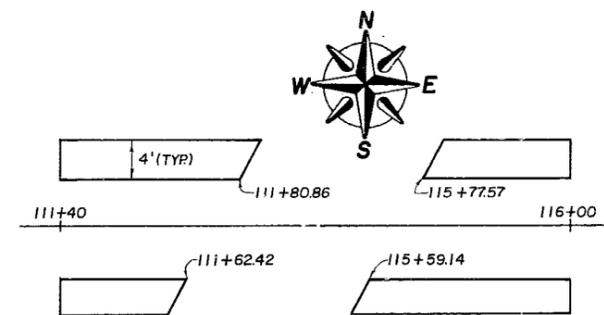


SAWCUT BUTT JOINT DETAIL



TYPICAL ROADWAY CROSS SECTION NO. 3

STA. 109+50-111+40



BRIDGE APPROACH SHOULDER PAVEMENT LIMITS



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

REVIEWED BY: *Robert J. Davis*
DISTRICT ENGINEER OF DESIGN

DATE: *July 23, 1987*

EXAMINED BY: *James J. [Signature]*
DISTRICT ENGINEER OF CONSTRUCTION

P. M. [Signature]
DISTRICT ENGINEER OF MAINTENANCE

[Signature]
DISTRICT ENGINEER OF MATERIALS

Edmund R. [Signature]
DISTRICT ENGINEER OF TRAFFIC

[Signature]
DISTRICT ENGINEER OF PLANNING

MAINLINE QUANTITIES

LOCATION	TYPICAL	AGG. SHLDRS T-B (TON)	AGG. BASE COURSE T-A (TON)	BASE COURSE WIDENING 7" (SQ.YD)	BIT. BASE COURSE (TON)	BIT. MATL. PRIME (GAL.)	BIT. CONC. BINDER (TON)	BIT. CONC. SURFACE (TON)	BRIDGE APPR. PVT. (SQ.YD)	P.C. BR. APPR. SHLDR. (SQ.YD)	BIT. CURB (LIN.FT.)	PAVED DITCH A-6 (LIN.FT.)	PVT. REMOVAL (SQ.YD)	BIT. CONC. SURFACE REMOVAL (SQ.YD)	PAVED DITCH REMOVAL (LIN.FT.)	PIPE DRAINS 12" (LIN.FT.)	TY. B INLET BOX 2324 (EACH)	METAL END SECT. 12" (EACH)	CONC. THRUST BLOCKS (EACH)
WEST STA 107+00 - 111+00	1,2,3	—	867	78	208	418	103	109	84.4	18.8 LT. 10.6 RT.	132 LT. 112 RT.	413 LT. 398 RT.	26.9	26.7	263 LT. 248 RT.	—	—	—	—
EAST STA 107+00 - 111+00		0	867	78	208	418	103	109	84.4	29.4	244	811	26.9	26.7	511	0	—	—	—
EAST STA 110+00 - 120+00	4,5	81	—	—	257	174	85	90	84.4	10.0 LT. 18.2 RT.	—	—	139.1	26.7	—	9 LT. 17 RT.	2	2	2
BRIDGE ENTRANCE STA 117+00 - 117+00		—	23	—	—	15	5	6	—	—	—	—	—	—	—	—	—	—	—
EAST STA 117+00 - 120+00		91	23	0	257	189	90	96	84.4	28.2	0	0	139.1	26.7	0	26	2	2	2
TOTAL		81	890	78	465	607	193	205	168.8	57.6	244	811	166	53.4	511	26	2	2	2

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	WEST	EAST	ST. L.O. (SQ. YD.)
20700100	EMBANKMENT	CU YD	333	333	—	—
21501200	AGGREGATE SHOULDERS, TYPE B	TON	81	—	81	—
30100100	AGGREGATE BASE COURSE, TYPE A	TON	890	857	23	—
30650200	BASE COURSE WIDENING 7"	SO YD	78	78	—	—
30801200	BITUMINOUS BASE COURSE	TON	465	208	257	—
40200100	AGGREGATE SURFACE COURSE, TYPE A	TON	1,000	—	—	—
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	797	418	189	—
40600300	AGGREGATE (PRIME COAT)	TON	5	—	—	—
40600700	BITUMINOUS CONCRETE BINDER COURSE	TON	193	103	90	—
40601200	BITUMINOUS CONCRETE SURFACE COURSE, MIXTURE C, CLASS I	TON	405	109	95	—
40801150	BRIDGE APPROACH PAVEMENT (STANDARD 2382)	SO YD	170	85	85	—
40801500	P.C. CONCRETE BRIDGE APPROACH SHOULDER PAVEMENT	SO YD	27.6	29.4	23.0	—
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	—	—	—
50200100	STRUCTURE EXCAVATION	CU YD	381	—	—	381
50200300	COFFERDAM EXCAVATION	CU YD	128	—	—	128
50200400	BOX EXCAVATION FOR STRUCTURES	CU YD	30.8	—	—	30.8
50200500	COFFERDAMS	EACH	2	—	—	2
50300100	FLOOR DRAINS	EACH	42	—	—	42
50300300	PROTECTIVE COAT	SO YD	346	—	—	346
50300720	ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH	10	—	—	10
50300250	CLASS X CONCRETE SUPERSTRUCTURE	CU YD	427.3	—	—	427.3
50400300	CLASS X CONCRETE	CU YD	402.9	—	—	402.9
50700100	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1	—	—	1
50700500	STUD SHEAR CONNECTORS	EACH	3,060	—	—	3,060
51115547	METAL END SECTION 12"	EACH	2	—	2	—
51200100	REINFORCEMENT BARS	POUND	59,400	3,050	3,640	52,710
51200200	REINFORCEMENT BARS, EPOXY COATED	POUND	103,320	—	—	103,320
51301400	FURNISHING STEEL PILES HP10X42	LIN FT	1,054	—	—	1,054
51302700	DRIVING STEEL PILES	LIN FT	1,054	—	—	1,054
51303400	TEST PILE STEEL HP10X42	EACH	2	—	—	2
51400100	NAME PLATES	EACH	1	—	—	1
60100100	STONE RIPRAP	SO YD	651	—	—	651
60700500	PIPE DRAINS 12"	LIN FT	26	—	26	—
60707600	PIPE UNDERDRAINS 4"	LIN FT	366	366	—	—
61246910	TYPE B INLET BOX, STANDARD 2324	EACH	2	—	2	—
61601600	BITUMINOUS CONCRETE CURB	LIN FT	244	244	—	—
61614800	PAVED DITCH, TYPE A-6	LIN FT	311	811	—	—
61700100	PAVEMENT REMOVAL	SO YD	106	26.9	139.1	—
61701000	BITUMINOUS CONCRETE SURFACE REMOVAL	SO YD	61	27	27	—
61704000	PAVED DITCH REMOVAL	LIN FT	511	511	—	—
62800805	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	2	2	—
63300510	STEEL PLATE BEAM GUARD RAIL, TYPE A REMOVAL AND SALVAGE	LIN FT	137.5	87.5	100	—
63301995	REMOVE AND RE-ERECT TRAFFIC BARRIER TERMINAL, TYPE 1A	EACH	2	2	—	—
63400310	ERECTING STEEL PLATE BEAM GUARDRAIL, TYPE A	LIN FT	52.5	54	10.5	—
64200100	SEEDING, CLASS I	ACRE	0.5	0.3	0.3	—
64200400	NITROGEN FERTILIZER NUTRIENT	POUND	7	15	18	—
64200500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	74	40	34	—
64200600	POTASSIUM FERTILIZER NUTRIENT	POUND	37	19	17	—
64300120	MULCH, METHOD 2	TON	1	0.5	0.4	—
64300500	EMULSIFIED ASPHALT	GALLON	90	48	42	9
64600400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	10	0.5	0.5	—
65000100	MOBILIZATION	L SUM	1	—	—	1
*15020200	PAINT PAVEMENT MARKING - LINE 4"	LIN FT	2,450	792	852	706
*15020400	PAINT PAVEMENT MARKING - LINE 6"	LIN FT	2,450	792	852	706
*15080200	BIDIRECTIONAL PRISMATIC BARRIER REFLECTOR	EACH	16	—	—	16
*15100300	GUARD RAIL REFLECTORS	EACH	24	8	16	—
20013500	CONCRETE THRUST BLOCKS	EACH	2	—	2	—
20018000	DRAINAGE SCUPPERS (SPECIAL)	EACH	6	—	—	6
20035100	NEOPRENE EXPANSION JOINT 2 1/2"	LIN FT	43	—	—	43
20035200	NEOPRENE EXPANSION JOINT 4"	LIN FT	43	—	—	43
20039200	PERMANENT SURVEY MARKERS, TYPE I	EACH	1	—	—	1
20076600	TRAINEES	HOURS	1000	—	—	—

PAINT PAVEMENT MARKING

LOCATION	4" EDGE LINE SINGLE WHITE (LIN.FT.)	6" CENTER LINE DOUBLE YELLOW (LIN.FT.)
WEST STA 107+00 - 111+00	792	792
EAST STA 110+00 - 120+00	796	796
EAST STA 115+00 - 120+00	862	862
TOTAL	2450	2450

GUARDRAIL

LOCATION	S.P.B.G.R. TY. A REMOVAL & SALVAGE (LIN.FT.)	REMOVE & RE-ERECT TRAFFIC BARRIER TYPE I/A (EACH)	ERECTING S.P.B.G.R. TY. A (LIN.FT.)	T.B.T., T-6 (EACH)	GUARDRAIL REFLECTORS (EACH)
N.E. QUAD	50	—	12.5	1	9
N.W. QUAD	50	1	25	1	4
S.W. QUAD	37.5	1	25	1	4
S.E. QUAD	50	—	—	1	7
TOTAL	187.5	2	62.5	4	24

SEEDING

LOCATION	SEEDING CLASS I (ACRES)	NITROGEN FERTILIZER (LBS)	PHOSPHORUS FERTILIZER (LBS)	POTASSIUM FERTILIZER (LBS)	MULCH METHOD II (TON)	EMULSIFIED ASPHALT (GAL.)
N.E. QUAD	0.1	9	17	9	0.21	21
N.W. QUAD	0.1	9	17	9	0.21	21
S.W. QUAD	0.2	19	23	10	0.27	27
S.E. QUAD	0.1	9	17	9	0.21	21
TOTAL	0.5	37	74	37	0.9	90

PIPE UNDERDRAINS 4"

LOCATION	(LIN.FT.)
LT 109 + 72 - 111 + 65	193
RT 109 + 72 - 111 + 45	173
TOTAL	366

QUANTITIES FOR BRIDGE APPROACH PAVEMENT 24'-0"

SKEW ANGLE DEGREES	BOTTOM REINFORCEMENT			TOP REINFORCEMENT			REINFORCEMENT (TOTAL WEIGHT) (POUNDS)	SLAB AREA (SQ. YDS.)	6x6-W5.5 x W5.5 WWF	
	TRANSVERSE #5	LONGITUDINAL #7	NO. REQUIRED	TRANSVERSE #4	LONGITUDINAL #4	NO. REQUIRED			DIMENSIONS L (ft) x W (ft)	AREA ** (SQ. YDS.)
17'-41" 35"	17	23'-8"	7 (EACH EDGE BEAM) + 42 (SLAB) of 5 1/2' dia. 19'-0" LONG. WEIGHT = 2175 POUNDS	5	29'-8"	20 BARS-19'-6" LONG. WEIGHT = 260 POUNDS	3060	779	22'-3" x 12'-6"	30.9

** AREA DOES NOT INCLUDE 8" LONGITUDINAL LAPS.
WWF = WELDED WIRE FABRIC

* SPECIALTY ITEMS
■ TOTAL QUANTITY INCLUDES QUANTITIES OF REPAIR ITEMS FOR LOCAL ROADS SEE TABLE BELOW (CONSTRUCTION TYPE CODE: 1000)

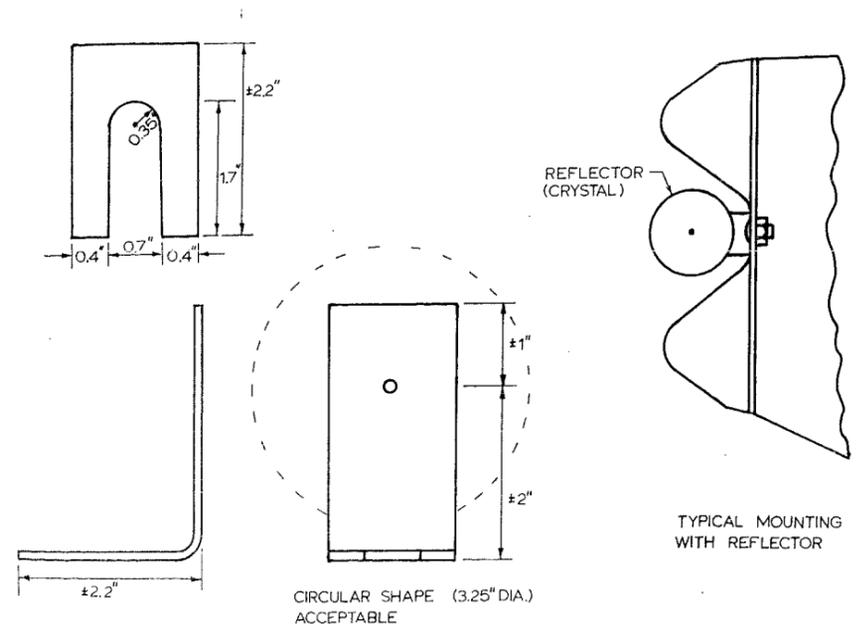
CONSTRUCTION TYPE CODE: EAST & WEST - SFTY 3Q
REPL. STR. No. 050-0201 - X071-2B
A Y080

REPAIR ITEM FOR LOCAL ROADS

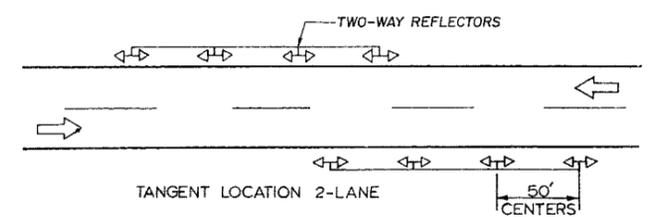
AGG SURF TY. A (TON)	BIT CONC SURF MIX C (TON)	BIT MATLS PRIME (GAL)	AGG PRIME (TON)
1,000	200	190	5

THESE ITEMS ARE ESTIMATES ONLY AND MAY OR MAY NOT BE NEEDED, THERE WILL BE NO ADJUSTMENT IN PRICE DUE TO A CHANGE IN QUANTITY.

SCHEDULES OF QUANTITIES
F.A.P. ROUTE 607
SECTION 124 BR
LASALLE COUNTY



GUARD RAIL REFLECTOR BRACKET



APPLICATION OF REFLECTORS ATTACHED TO GUARD RAIL

- NOTE:
- BRACKET TO BE FABRICATED FROM 14 GAGE (MIN.) STEEL GALVANIZED IN ACCORDANCE WITH AASHTO M 111.
 - INSTALL AT THE SPACING SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.
 - BRACKET "FOOT" SHALL BE PLACED BETWEEN THE BOLT HEAD AND THE PLATE WASHER (IF PRESENT).
 - BRACKETS SHALL NOT BE PLACED WITHIN 25 FEET OR THE END OF A BREAKAWAY CABLE TERMINAL (BCT) SECTION OR WITHIN AN EXPANSION SPLICE.
 - ON THREE BEAM RAIL, THE BRACKETS SHALL BE ATTACHED TO THE UPPER SPLICE BOLTS.

GENERAL NOTES

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

CLASS I SEEDING SHALL BE APPLIED TO ALL EXISTING AREAS THAT ARE DISTURBED BY CONSTRUCTION OPERATIONS. NUTRIENTS AND MULCH SHALL BE APPLIED TO ALL PROPOSED SEEDING AREAS EXCEPT THAT MULCH SHALL NOT BE APPLIED TO EXCELSIOR BLANKET AREAS.

WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL MONUMENTS UNTIL AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR REESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER LISTED IN THE INDEX OF SHEETS OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.

BEFORE ORDERING PIPE CULVERTS AND PIPE DRAINS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR EXACT LENGTHS.

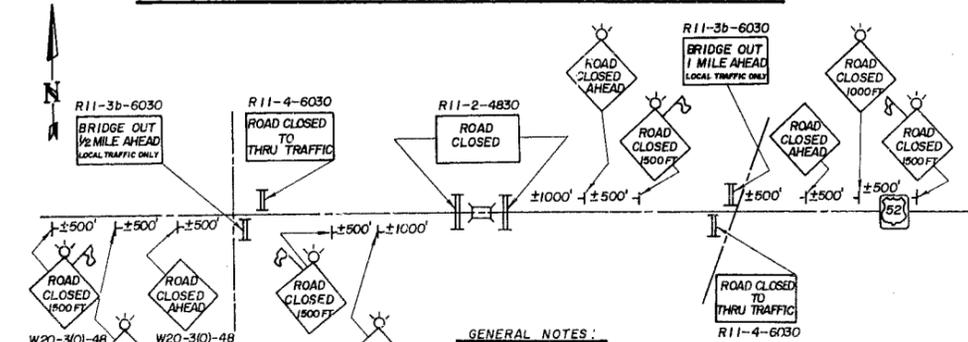
THE FOLLOWING RATES OF APPLICATION HAVE BEEN ASSUMED IN CALCULATING PLAN QUANTITIES:

GRANULAR MATERIALS	2.05 TONS/CU YD
BITUMINOUS MATERIALS PRIME COAT	0.08 GAL/SQ YD OR 0.375 GAL/SQ YD
AGGREGATE PRIME COAT	0.002 TONS/SQ YD
BITUMINOUS CONCRETE SURFACE COURSE	112 LBS/SQ YD/INCH
NITROGEN FERTILIZER NUTRIENT	80 LBS/ACRE
PHOSPHOROUS FERTILIZER NUTRIENT	160 LBS/ACRE
POTASSIUM FERTILIZER NUTRIENT	80 LBS/ACRE
TEMPORARY PAVEMENT MARKING	10 FT/100 FT OF APPLICATION
MULCH METHOD 2	2 TONS/ACRE
EMULSIFIED ASPHALT	100 GAL/TON OF MULCH

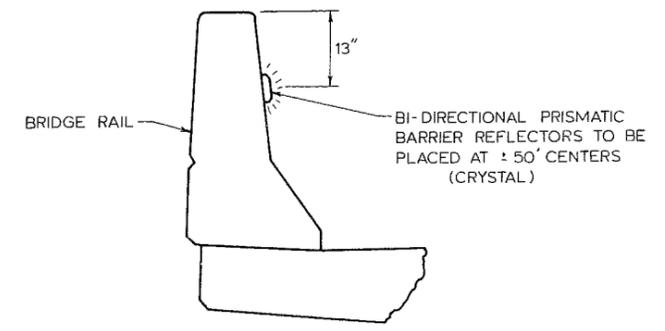
THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.26 OF THE STANDARD SPECIFICATIONS. THE JULIE NUMBER IS 800-892-0123. A MINIMUM OF FORTY-EIGHT HOURS ADVANCE NOTICE IS REQUIRED FOR NONEMERGENCY WORK.

MEMBERS OF JULIE. KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:
 ILL. BELL TELEPHONE COMPANY
 ILL. POWER COMPANY

CONTRACTOR SIGNING RESPONSIBILITY



- GENERAL NOTES:
- INDICATES TYPE III BARRICADES AS SHOWN IN STD. 229B.
 - INDICATES 18" x 18" ORANGE FLAG.
 - INDICATES FLASHING LIGHTS ABOVE SIGN.
 - ALL BARRICADES SHALL BE EQUIPPED WITH (2) BI-DIRECTIONAL FLASHING LIGHTS PER BARRICADE.
 - ALL SIGNS TO BE POST MOUNTED.
 - ALL TRAFFIC CONTROL DEVICES SHOWN, TO BE FURNISHED, ERECTED, AND MAINTAINED BY THE CONTRACTOR.



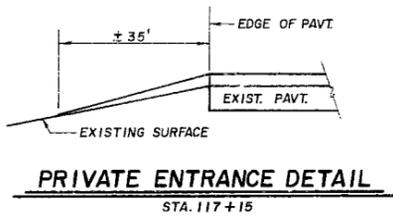
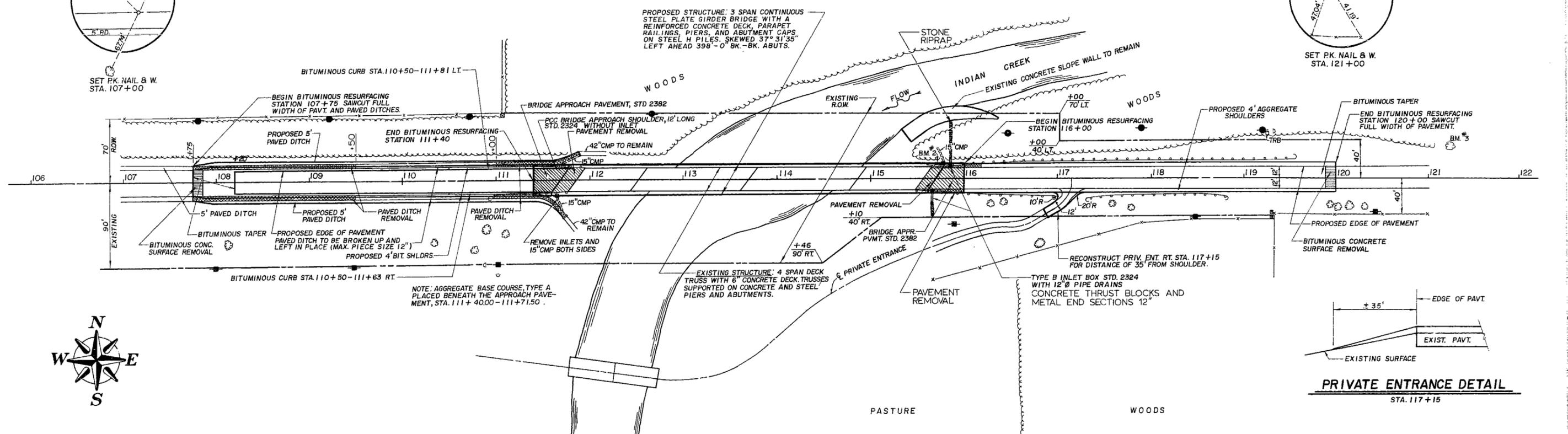
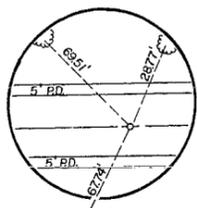
SUGGESTED MOUNTING LOCATION FOR BARRIER REFLECTORS

F.A. ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
607	124	LASALLE		5

B.M.#1 R.R. SPIKE IN TELE. POLE
STA. 104+17 34' LT. ELEV. 637.78

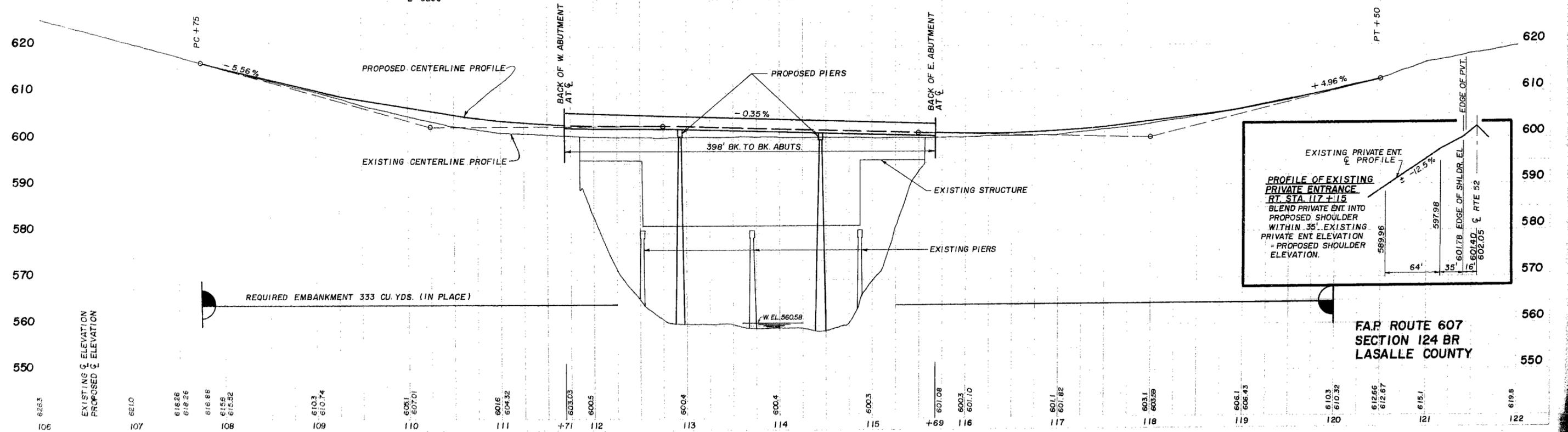
B.M.#2 CHISELED "O" ON N.E. WINGWALL
STA. 115+72 16' LT. ELEV. 600.17

B.M.#3 R.R. SPIKE IN 16" TREE
STA. 121+23 34' LT. ELEV. 617.09



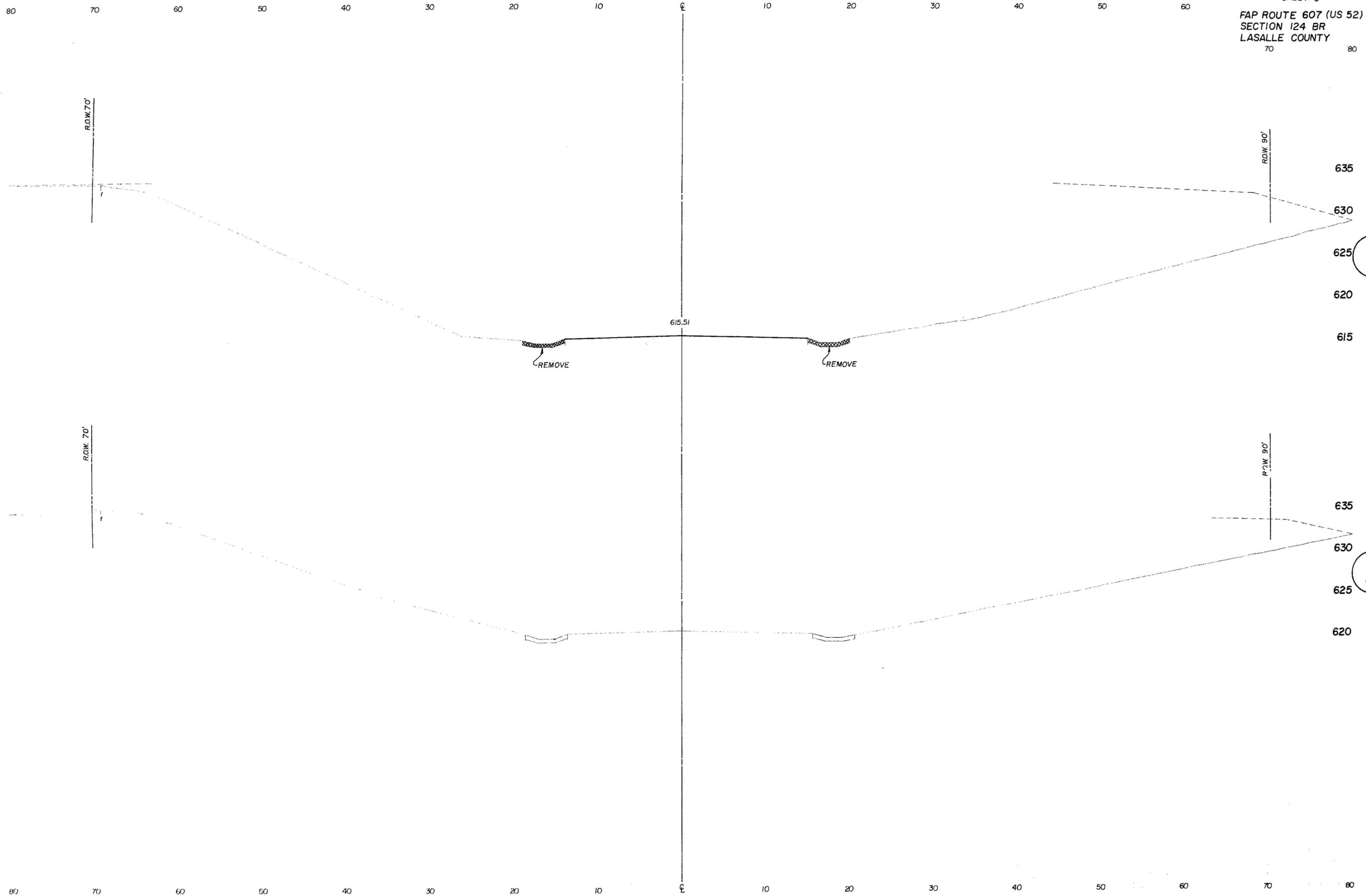
PI STA 110 + 25
EL. 602.98
VC 500'
E 3256

PI STA 118 + 00
EL. 600.27
VC 500'
E 3318



F.A. ROUTE 607
SECTION 124 BR
LASALLE COUNTY

SHEET 6
FAP ROUTE 607 (US 52)
SECTION 124 BR
LASALLE COUNTY
70 80



80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

635
 630
 625
 620
 615
 610
 605
 635
 630
 625
 620
 615
 610

110
 ±
 00

109
 ±
 00

607.01

610.73

TO BE BROKEN UP AND
 LEFT IN PLACE, MAX.
 PIECE SIZE 12".

TO BE BROKEN UP AND
 LEFT IN PLACE, MAX.
 PIECE SIZE 12".

REMOVE

REMOVE

C-0 F-33

C-0 F-4

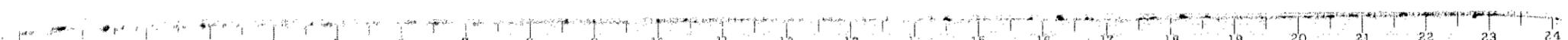
R.O.W. 70'

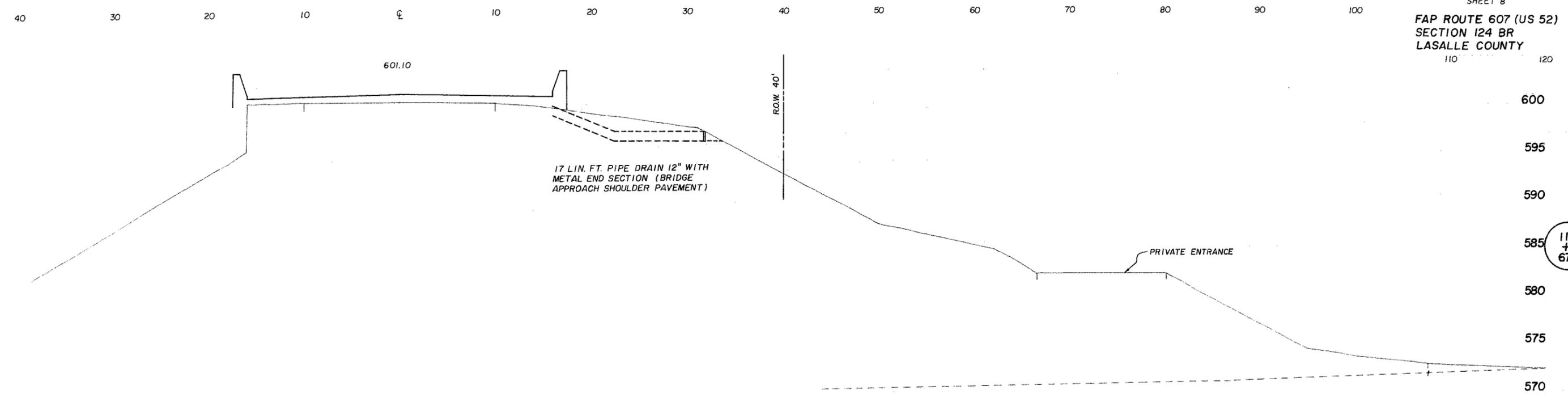
R.O.W. 90'

R.O.W. 70'

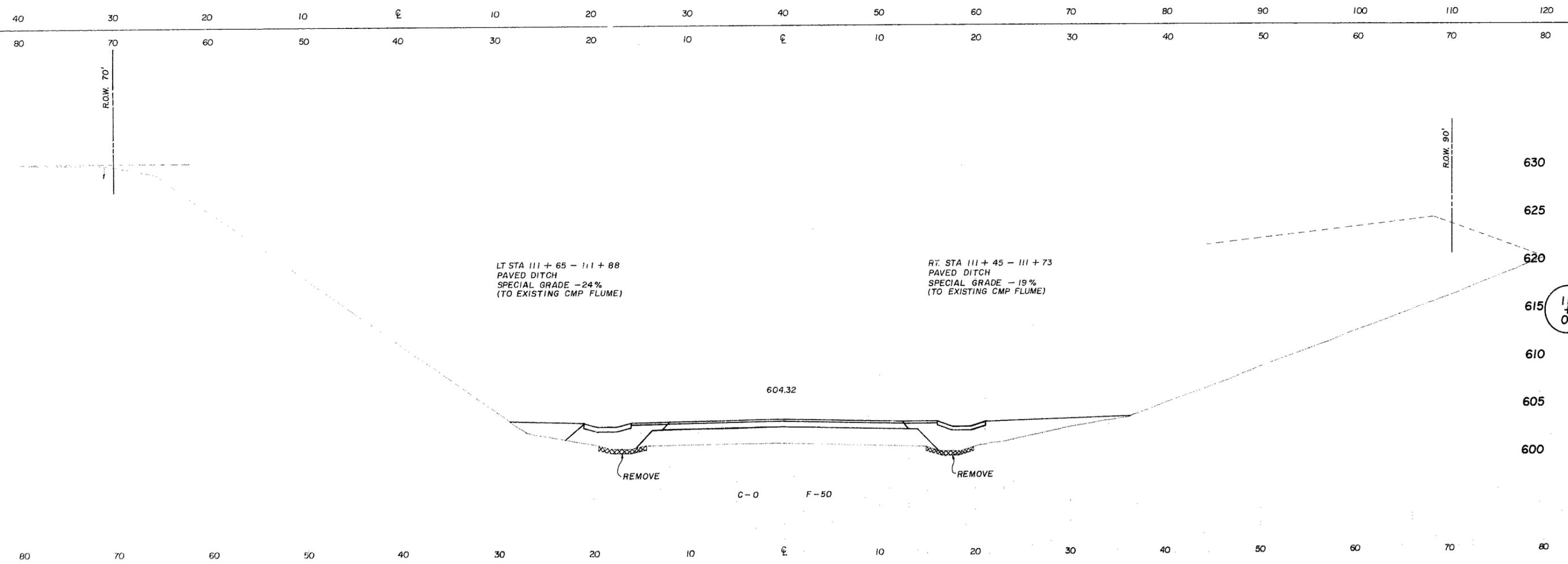
R.O.W. 90'

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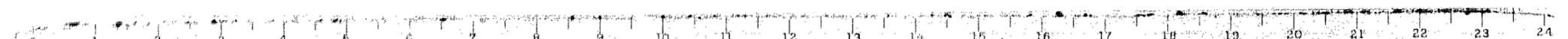




115
+
67.7



111
+
00



50 40 30 20 10 0 10 20 30 40 50 60 70 80 90

SHEET 9
FAP ROUTE 607 (US 52)
SECTION 124 BR
LASALLE COUNTY
100 110

601.15

ROW 40'

PRIVATE ENTRANCE

600
595
590
585
580
575
570

116
+
17.7

601.10

ROW 40'

PRIVATE ENTRANCE

9 LIN. FT. PIPE DRAIN 12" WITH
METAL END SECTION (BRIDGE
APPROACH SHOULDER PAVEMENT)

600
595
590
585
580
575
570

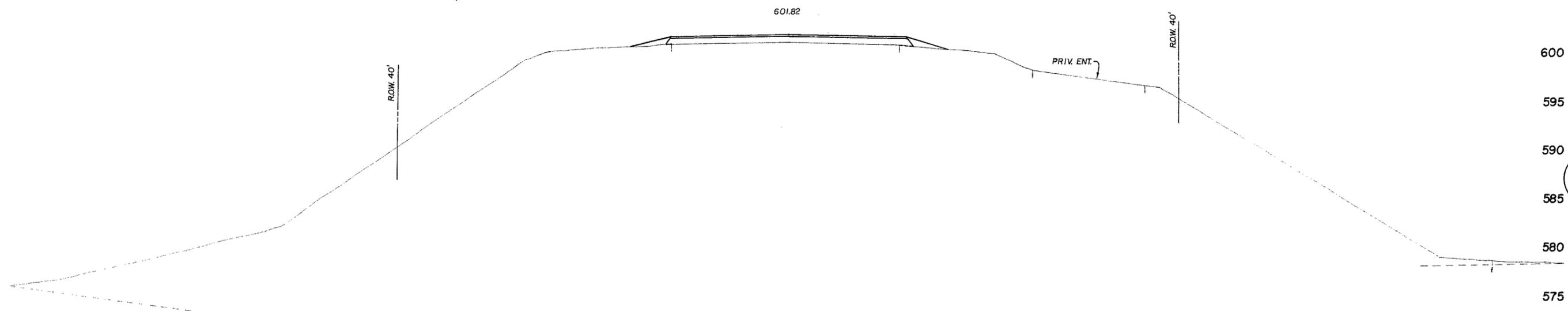
115
+
99.7

50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110



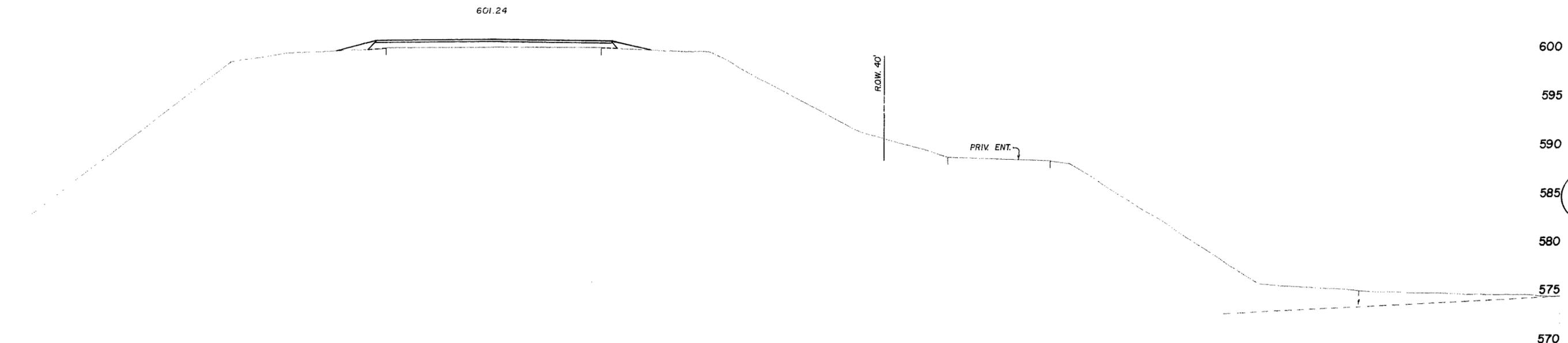
SHEET 10
 FAP ROUTE 607 (US 52)
 SECTION 124 BR
 LASALLE COUNTY
 70 80

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60



80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

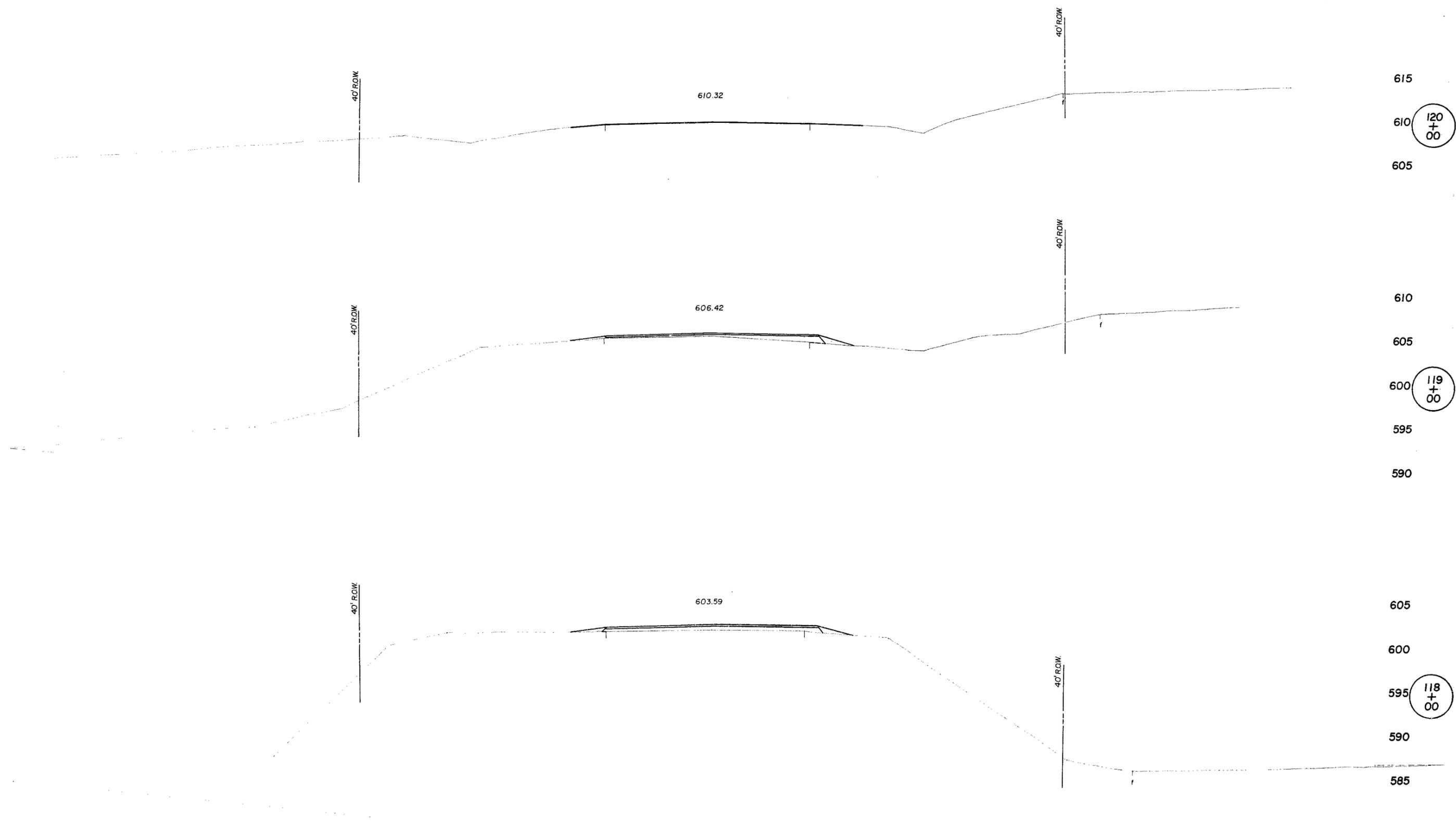
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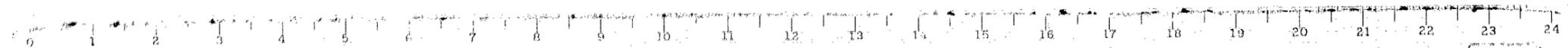
50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110



80 70 60 50 40 30 20 10 0 10 20 30 40 50 60



80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80



BENCH MARK: CHISELED SQUARE ON NORTHEAST WINGWALL
 ELEVATION 600.17

EXISTING STRUCTURE: BUILT IN 1930 AS SECTION 124 B, ROUTE 60, FOUR SPAN DECK TRUSS WITH A 6" CONCRETE DECK, 22 FEET 9 INCHES FA - FA OF CURBS, 375 FEET, 4 INCHES BK - BK ABUTMENTS. EXISTING STRUCTURE TO BE REMOVED. EXISTING STRUCTURE NUMBER 050-0057. NO SALVAGE. TRAFFIC TO BE DETOURED.

F.A. ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
607	124 BR	LASALLE	28	12

BR SHEET 1 OF 16 SHEETS

GENERAL NOTES

BEARING SEAT SURFACES SHALL BE CONSTRUCTED OR ADJUSTED TO THE DESIGNATED ELEVATIONS WITHIN A TOLERANCE OF 1/8 INCH. ADJUSTMENT SHALL BE MADE EITHER BY GRINDING THE SURFACE OR BY SHIMMING THE BEARING. TWO 1/8" ADJUSTING SHIMS, OF THE DIMENSIONS OF THE BOTTOM BEARING PLATE, SHALL BE PROVIDED FOR EACH BEARING IN ADDITION TO ALL OTHER PLATES OR SHIMS.

CALCULATED WEIGHT OF STRUCTURAL STEEL: 270,340 LBS. M163
 205,490 LBS. M223, GRADE 50

FASTENERS SHALL BE HIGH STRENGTH BOLTS. BOLTS 7/8"Ø, OPEN HOLES 15/16"Ø UNLESS OTHERWISE NOTED.

ANCHOR BOLTS SHALL BE SET BEFORE BOLTING CROSS FRAMES OVER SUPPORTS.

THE MAIN LOAD CARRYING MEMBER COMPONENTS SUBJECT TO TENSILE STRESS SHALL CONFORM TO THE SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2. THESE COMPONENTS ARE THE TENSION FLANGES, WEBS AND ALL SPLICE MATERIAL OF THE STEEL GIRDERS.

THE CONTRACTOR SHALL DRIVE 2-HP10X42 TEST PILES IN A PERMANENT LOCATION ONE EACH AT WEST ABUTMENT, AND EAST ABUTMENT AS DIRECTED BY THE ENGINEER BEFORE ORDERING THE REMAINDER OF PILES.

REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M31, M42 OR M53, GRADE 60.

FIELD WELDING OF CONSTRUCTION ACCESSORIES WILL NOT BE PERMITTED TO THE BOTTOM FLANGE OF GIRDERS NOR TO THE TOP FLANGE FOR A DISTANCE EQUAL TO ONE-FOURTH THE SPAN LENGTH EACH WAY FROM THE PIER SUPPORTS. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.

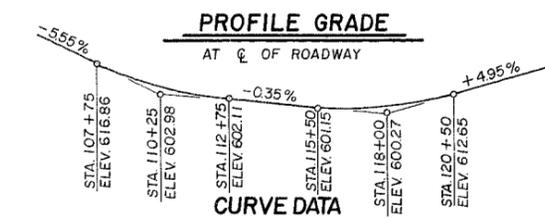
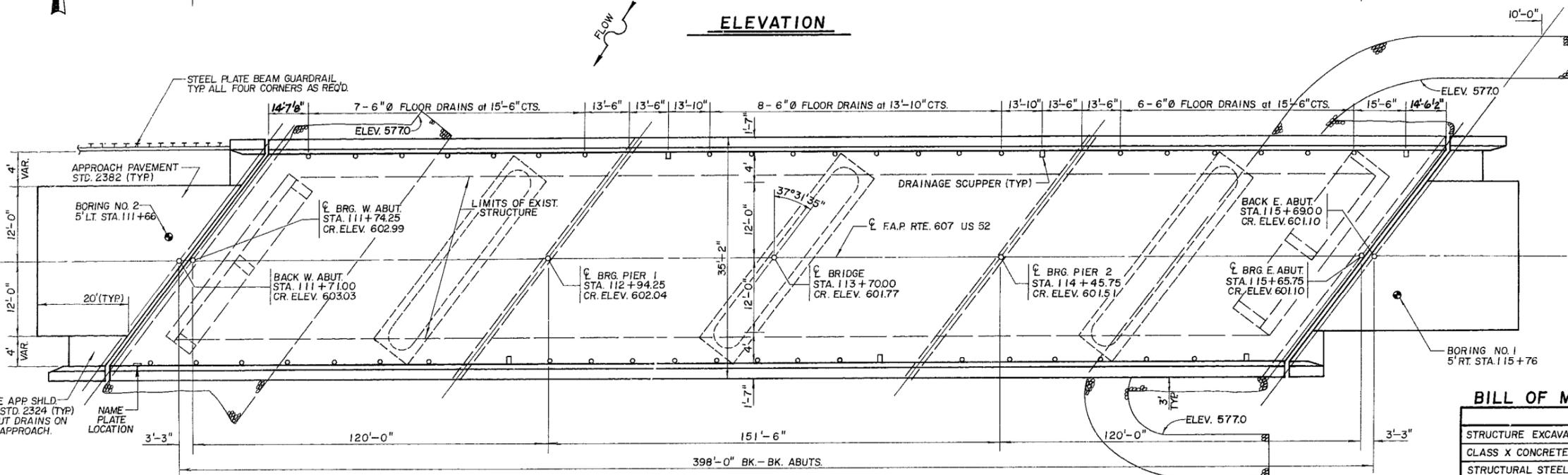
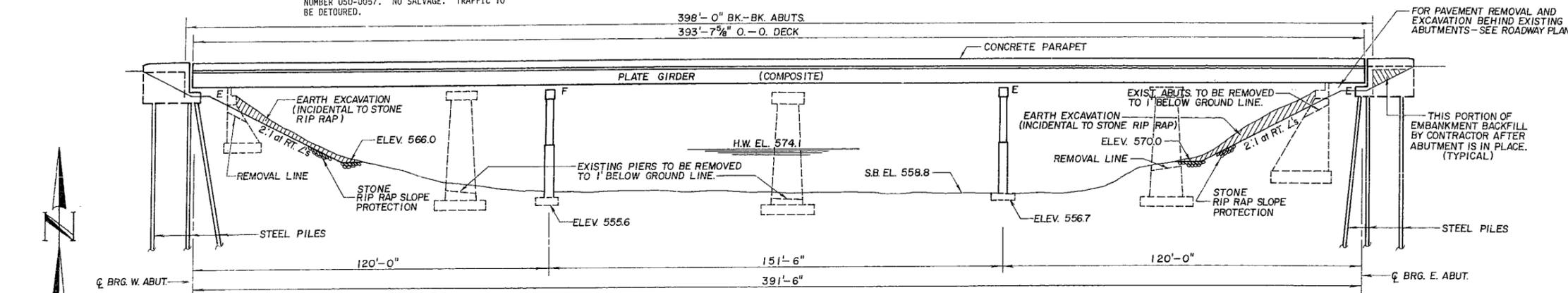
THE ZINC-SILICATE AND VINYL PAINT SYSTEM SHALL BE USED FOR SHOP AND FIELD PAINTING OF STRUCTURAL STEEL EXCEPT WHERE OTHERWISE NOTED.

LAYOUT OF STONE RIP RAP MAY BE VARIED IN THE FIELD TO SUIT GROUND CONDITIONS AS DIRECTED BY THE ENGINEER.

All high strength bolt connections shall conform to the requirements of the latest issue of the Specifications for Structural Joints using ASTM A325(M164) or A490(M253) Bolts for slip-critical connections. Except tightening methods using either the load indicating washers or the calibrated wrench are not allowed.

BILL OF MATERIAL - BRIDGE

ITEM	UNIT	SUPER	SUB	TOTAL
STRUCTURE EXCAVATION	CU.YD.		381	381
CLASS X CONCRETE	CU.YD.		402.9	402.9
STRUCTURAL STEEL	L. SUM	1		1
STUD SHEAR CONNECTORS	EACH	3060		3060
REINFORCEMENT BARS	LBS.		53,280	53,280
REINFORCEMENT BARS (EPOXY COATED)	LBS.		103,320	103,320
FURNISHING STEEL PILES HP 10 x 42	LIN.FT.		1064	1064
DRIVING STEEL PILES HP 10 x 42	LIN.FT.		1064	1064
TEST PILES HP 10 x 42	EACH		2	2
NEOPRENE EXPANSION JOINT - 2 1/2"	LIN.FT.	43		43
NEOPRENE EXPANSION JOINT - 4"	LIN.FT.	43		43
DRAINAGE SCUPPERS	EACH		6	6
FLOOR DRAINS - 6" DIA.	EACH		42	42
PROTECTIVE COAT	SQ.YD.	320	26	346
NAMEPLATES	EACH			1
STONE RIP RAP	SQ.YD.			651
REMOVAL OF EXISTING STRUCTURES	EACH			1
ROCK EXCAVATION FOR STRUCTURE	CU.YDS.		904	904
ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH		10	10
CLASS X CONCRETE SUPERSTRUCTURE	CU.YDS.	427.3		427.3
Cofferdams	Each		2	2
Cofferdam Excavation	CU.YDS.		25	125



STATION 113+70.00
 BUILT 198 BY
 STATE OF ILLINOIS
 F.A.P. ROUTE 607, SEC. 124 BR.
 LOADING HS 20
 STR. NO. 050-0201

DESIGN STRESSES

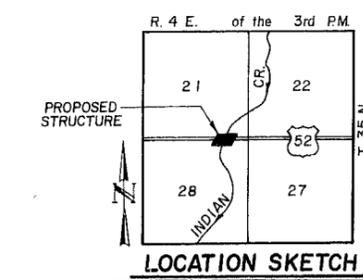
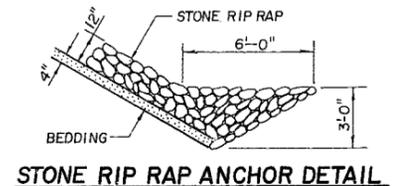
$f_c = 3500$ PSI
 $f_y = 60,000$ PSI (REINFORCEMENT)
 $f_y = 50,000$ PSI (STRUCTURAL STEEL M 223, GRADE 50)
 $f_y = 36,000$ PSI (STRUCTURAL STEEL M 183)

DESIGN SPECIFICATIONS

1983 AASHTO & 1984 & 1985 INTERIMS (ALLOW 25 LBS./SQ.FT. FOR FUTURE WEARING SURFACE)

LETTERING FOR NAMEPLATE

SEE STD. 2113



WATERWAY INFORMATION

DRAINAGE AREA = 237 SQ. MI. LOW GRADE ELEV. 601.07 at STA. 115+84

FLOOD	FREQ. YR.	Q. C.F.S.	OPENING SQ. FT.		NAT. H.W.E.	HEAD - FT.		HEADWATER EL.	
			EXIST.	PROP.		EXIST.	PROP.	EXIST.	PROP.
DESIGN	50	7961	2605	2605	574.1	0.30	0.30	574.4	574.4
BASE	100	9082	2746	2746	574.7	0.38	0.38	575.08	575.08
OVERTOPPING									
MAX CALC.	500	11672			576.9				

PREPARED BY
Harold P. Wendler & Associates
 DIXON, PRINCETON, & ROCKFORD ILLINOIS

DO NOT SCALE DRAWING, FOLLOW DIMENSIONS

LOADING HS 20-44

GENERAL PLAN AND ELEVATION
 F.A.P. RTE. 607
 SECTION 124 BR
 LASALLE COUNTY
 STATION 113+70.00



BENCH MARK: CHISELED SQUARE ON NORTHEAST WINGWALL
 ELEVATION 600.17

EXISTING STRUCTURE: BUILT IN 1930 AS SECTION 124 B, ROUTE 69. FOUR SPAN DECK TRUSS WITH A 6" CONCRETE DECK, 22 FEET 9 INCHES FA - FA OF CURBS, 375 FEET, 4 INCHES BK - BK ABUTMENTS. EXISTING STRUCTURE TO BE REMOVED. EXISTING STRUCTURE NUMBER 050-0057. NO SALVAGE. TRAFFIC TO BE DETOURED.

F.A. ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
607	124 BR	LASALLE	28	12A

ILLINOIS PROJECT

BR. SHEET 1 OF 16 SHEETS

GENERAL NOTES

BEARING SEAT SURFACES SHALL BE CONSTRUCTED OR ADJUSTED TO THE DESIGNATED ELEVATIONS WITHIN A TOLERANCE OF 1/8 INCH. ADJUSTMENT SHALL BE MADE EITHER BY GRINDING THE SURFACE OR BY SHIMMING THE BEARING. TWO 1/8" ADJUSTING SHIMS, OF THE DIMENSIONS OF THE BOTTOM BEARING PLATE, SHALL BE PROVIDED FOR EACH BEARING IN ADDITION TO ALL OTHER PLATES OR SHIMS.

CALCULATED WEIGHT OF STRUCTURAL STEEL: 270,340 LBS. M183
 205,490 LBS. M223, GRADE 50

FASTENERS SHALL BE HIGH STRENGTH BOLTS. BOLTS 7/8" Ø, OPEN HOLES 15/16" Ø UNLESS OTHERWISE NOTED.

ANCHOR BOLTS SHALL BE SET BEFORE BOLTING CROSS FRAMES OVER SUPPORTS.

THE MAIN LOAD CARRYING MEMBER COMPONENTS SUBJECT TO TENSILE STRESS SHALL CONFORM TO THE SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2. THESE COMPONENTS ARE THE TENSION FLANGES, WEBS AND ALL SPLICE MATERIAL OF THE STEEL GIRDERS.

THE CONTRACTOR SHALL DRIVE 2-HP10X42 TEST PILES IN A PERMANENT LOCATION ONE EACH AT WEST ABUTMENT, AND EAST ABUTMENT AS DIRECTED BY THE ENGINEER BEFORE ORDERING THE REMAINDER OF PILES.

REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M31, M42 OR M53, GRADE 60.

FIELD WELDING OF CONSTRUCTION ACCESSORIES WILL NOT BE PERMITTED TO THE BOTTOM FLANGE OF GIRDERS NOR TO THE TOP FLANGE FOR A DISTANCE EQUAL TO ONE-FOURTH THE SPAN LENGTH EACH WAY FROM THE PIER SUPPORTS. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.

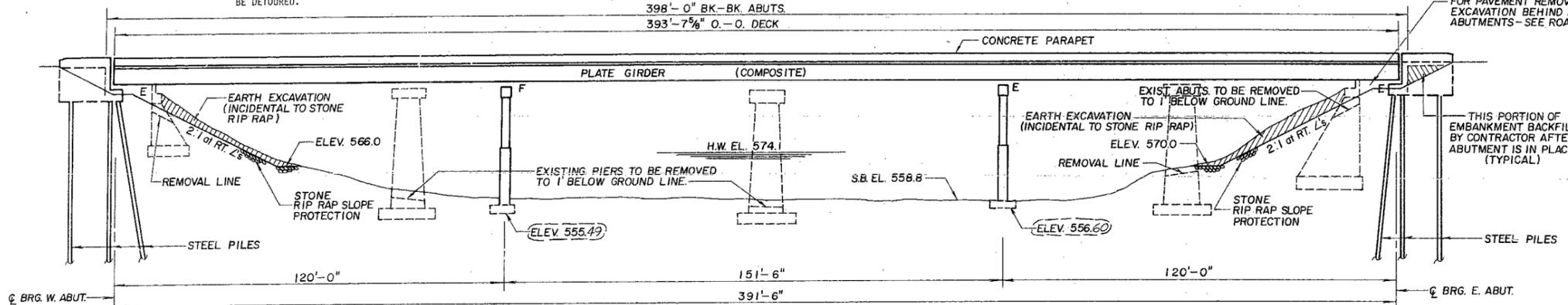
THE ZINC-SILICATE AND VINYL PAINT SYSTEM SHALL BE USED FOR SHOP AND FIELD PAINTING OF STRUCTURAL STEEL EXCEPT WHERE OTHERWISE NOTED.

LAYOUT OF STONE RIP RAP MAY BE VARIED IN THE FIELD TO SUIT GROUND CONDITIONS AS DIRECTED BY THE ENGINEER.

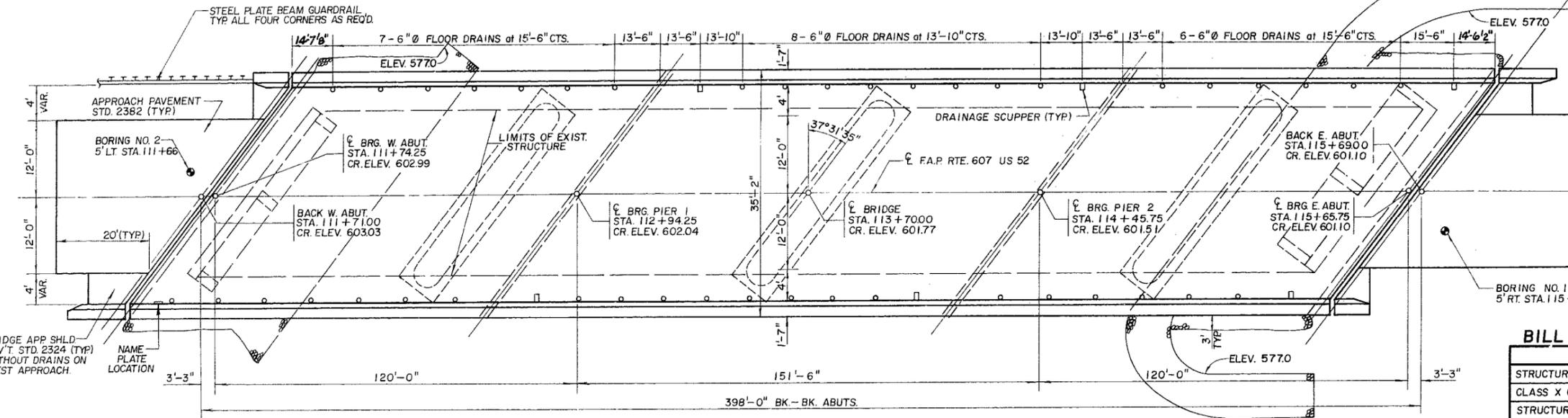
All high strength bolt connections shall conform to the requirements of the latest issue of the Specifications for Structural Joints using ASTM A325(M164) or A490(M253) Bolts for slip-critical connections. Except tightening methods using either the load indicating washers or the calibrated wrench are not allowed.

BILL OF MATERIAL - BRIDGE

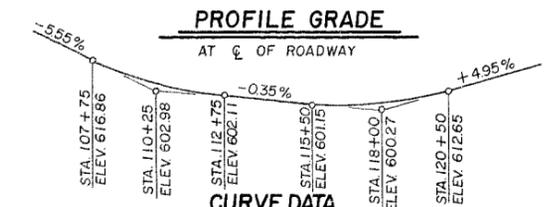
ITEM	UNIT	SUPER	SUB	TOTAL
STRUCTURE EXCAVATION	CUYD.		531	531
CLASS X CONCRETE	CUYD.		4029	4029
STRUCTURAL STEEL	L. SUM	1		1
STUD SHEAR CONNECTORS	EACH	3060		3060
REINFORCEMENT BARS	LBS.		53280	53280
REINFORCEMENT BARS (EPOXY COATED)	LBS.	103,320		103,320
FURNISHING STEEL PILES HP 10 x 42	LIN. FT.		1064	1064
DRIVING STEEL PILES HP 10 x 42	LIN. FT.		1064	1064
TEST PILES HP 10 x 42	EACH		2	2
NEOPRENE EXPANSION JOINT - 2 1/2"	LIN. FT.	43		43
NEOPRENE EXPANSION JOINT - 4"	LIN. FT.	43		43
DRAINAGE SCUPPERS	EACH	6		6
FLOOR DRAINS - 6" DIA.	EACH	42		42
PROTECTIVE COAT	SQ. YD.	320	26	346
NAMEPLATES	EACH			1
STONE RIP RAP	SQ. YD.			651
REMOVAL OF EXISTING STRUCTURES	EACH			1
ROCK EXCAVATION FOR STRUCTURE	CU. YDS.		904	904
ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH		10	10
CLASS X CONCRETE SUPERSTRUCTURE	CU. YDS.	427.3		427.3
Cofferdams	Each		2	2
Cofferdam Excavation	CU. YDS.		12	12



ELEVATION



PLAN



PROFILE GRADE
AT C. OF ROADWAY

CURVE DATA

STATION 113+70.00
 BUILT 198 BY
 STATE OF ILLINOIS
 F.A.P. ROUTE 607, SEC. 124 BR.
 LOADING HS 20
 STR. NO. 050-0201

DESIGN STRESSES

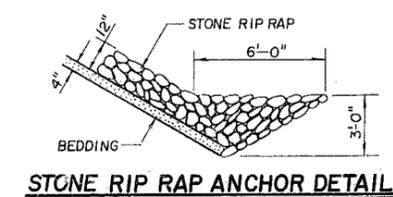
$f_c = 3500$ PSI
 $f_y = 60,000$ PSI (REINFORCEMENT)
 $f_y = 50,000$ PSI (STRUCTURAL STEEL M 223, GRADE 50)
 $f_y = 36,000$ PSI (STRUCTURAL STEEL M 183)

DESIGN SPECIFICATIONS

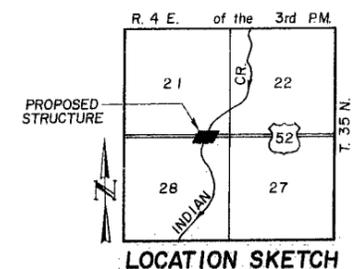
1983 AASHTO & 1984 & 1985 INTERIMS (ALLOW 25 LBS./SQ. FT. FOR FUTURE WEARING SURFACE)

LETTERING FOR NAMEPLATE

SEE STD. 2113



STONE RIP RAP ANCHOR DETAIL



LOCATION SKETCH

WATERWAY FORMATION

DRAINAGE AREA = 237 SQ. MI. LOW WATER ELEV. 601.07 at STA. 115+84

FLOOD	FREQ. YR.	Q. C.F.S.	OPENING SIZE		NAT. H.W.E.	HEAD-FT.		HEADWATER EL.	
			EXIST.	PROP.		EXIST.	PROP.	EXIST.	PROP.
DESIGN	50	7961	2605	2605	574.1	0.30	0.30	574.4	574.4
BASE	100	9082	2746	2746	574.7	0.38	0.38	575.08	575.08
OVERTOPPING									
MAX. CALC.	500	11672			576.9				

AS REVISED

PREPARED BY
Harold P. Wendler & Associates
 DIXON, PRINCETON, & ROCKFORD ILLINOIS

DO NOT SCALE DRAWING, FOLLOW DIMENSIONS

LOADING HS 20-44



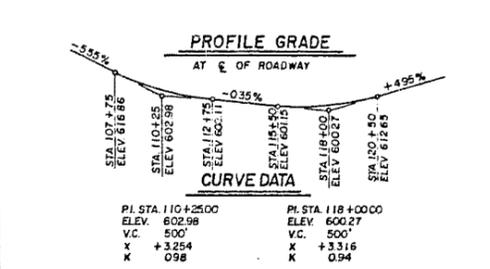
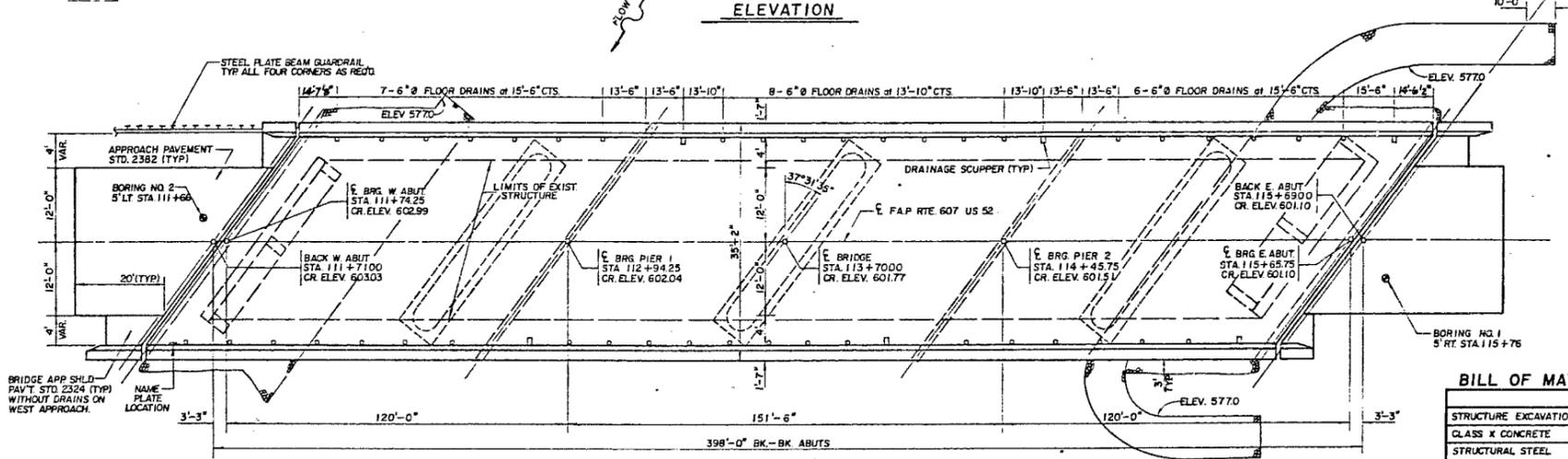
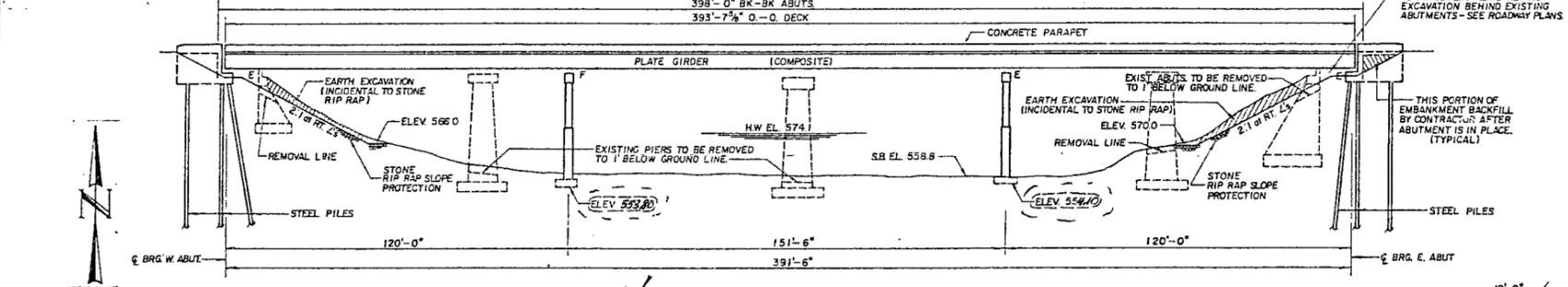
GENERAL PLAN AND ELEVATION
F.A.P. RTE. 607
SECTION 124 BR
LASALLE COUNTY
STATION 113+7000

BENCH MARK: CHISELED SQUARE ON NORTHEAST WINGWALL
ELEVATION 500.17

EXISTING STRUCTURE: BUILT IN 1924 AS SECTION 124 BR, ROUTE 69. FOUR SPAN DECK TRUSS WITH A 6" CONCRETE DECK, 22 FEET 8 INCHES PA - PA OF GIRDERS, 375 FEET, 4 INCHES BK - BK ABUTMENTS. EXISTING STRUCTURE TO BE REMOVED. EXISTING STRUCTURE NUMBERS 050-0057. NO SALVAGE. TRAFFIC TO BE DETOURED.

PROJECT NO.	SEC.	COUNTY	SHEET NO.	TOTAL SHEETS
607	124 BR	LASALLE	28	128

BR. SHEET 1 OF 16 SHEETS

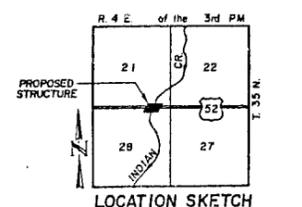
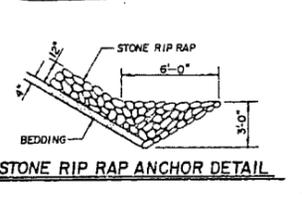


DESIGN STRESSES

$f_c = 3500$ PSI
 $f_y = 60,000$ PSI (REINFORCEMENT)
 $f_y = 50,000$ PSI (STRUCTURAL STEEL M 223, GRADE 50)
 $f_y = 36,000$ PSI (STRUCTURAL STEEL M 183)

DESIGN SPECIFICATIONS

1983 AASHTO & 1984 & 1985 INTERIMS (ALLOW 25 LBS./SQ. FT. FOR FUTURE WEARING SURFACE)



GENERAL NOTES

BEARING SEAT SURFACES SHALL BE CONSTRUCTED OR ADJUSTED TO THE DESIGNATED ELEVATIONS WITHIN A TOLERANCE OF 1/8 INCH. ADJUSTMENT SHALL BE MADE EITHER BY GRINDING THE SURFACE OR BY SHIMMING THE BEARING. TWO 1/8" ADJUSTING SHIMS, OF THE DIMENSIONS OF THE BOTTOM BEARING PLATE, SHALL BE PROVIDED FOR EACH BEARING IN ADDITION TO ALL OTHER PLATES OR SHIMS.

CALCULATED WEIGHT OF STRUCTURAL STEEL: 270,340 LBS. M183
205,450 LBS. M223, GRADE 50

FASTENERS SHALL BE HIGH STRENGTH BOLTS. BOLTS 7/8" DIA. OPEN HOLES 15/16" UNLESS OTHERWISE NOTED.

ANCHOR BOLTS SHALL BE SET BEFORE BOLTING CROSS FRAMES OVER SUPPORTS.

THE MAIN LOAD CARRYING MEMBER COMPONENTS SUBJECT TO TENSILE STRESS SHALL CONFORM TO THE SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2. THESE COMPONENTS ARE THE TENSION FLANGES, WEBS AND ALL SPLICE MATERIAL OF THE STEEL GIRDERS.

THE CONTRACTOR SHALL DRIVE 2-HP10142 TEST PILES IN A PERMANENT LOCATION ONE EACH AT WEST ABUTMENT, AND EAST ABUTMENT AS DIRECTED BY THE ENGINEER BEFORE ORDERING THE REMOVAL OF PILES.

REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M31, M42 OR M53, GRADE 60.

FIELD WELDING OF CONSTRUCTION ACCESSORIES WILL NOT BE PERMITTED TO THE BOTTOM FLANGE OF GIRDERS NOR TO THE TOP FLANGE FOR A DISTANCE EQUAL TO ONE-FOURTH THE SPAN LENGTH EACH WAY FROM THE PIER SUPPORTS. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.

THE ZINC-SILICATE AND VINYL PAINT SYSTEM SHALL BE USED FOR SHOP AND FIELD PAINTING OF STRUCTURAL STEEL EXCEPT WHERE OTHERWISE NOTED.

LAYOUT OF STONE RIP RAP MAY BE VARIED IN THE FIELD TO SUIT GROUND CONDITIONS AS DIRECTED BY THE ENGINEER.

All high strength bolt connections shall conform to the requirements of the latest issue of the Specifications for Structural Joints using ASTM A325 (M164) or A490 (M253) bolts for slip-critical connections. Except tightening methods using either the load indicating washers or the calibrated wrench are not allowed.

BILL OF MATERIAL - BRIDGE

ITEM	UNIT	SUPER	SUB	TOTAL
STRUCTURE EXCAVATION	CUYD		281	281
CLASS X CONCRETE	CUYD		402.9	402.9
STRUCTURAL STEEL	L. SUM	1		1
STUD SHEAR CONNECTORS	EACH	3060		3060
REINFORCEMENT BARS	LBS.		53,280	53,280
REINFORCEMENT BARS (EPOXY COATED)	LBS.	103,320		103,320
FURNISHING STEEL PILES HP 10 x 42	LIN. FT.		1064	1064
DRIVING STEEL PILES HP 10 x 42	LIN. FT.		1064	1064
TEST PILES HP 10 x 42	EACH		2	2
NEOPRENE EXPANSION JOINT - 2 1/2"	LIN. FT.		43	43
NEOPRENE EXPANSION JOINT - 4"	LIN. FT.		43	43
DRAINAGE SCUPPERS	EACH		6	6
FLOOR DRAINS - 6" DIA.	EACH		42	42
PROTECTIVE COAT	SQ. YD.		320	26
NAMEPLATES	EACH			1
STONE RIP RAP	SQ. YD.			651
REMOVAL OF EXISTING STRUCTURES	EACH			1
ROCK EXCAVATION FOR STRUCTURE	CUYD.		904	904
ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH		10	10
CLASS A CONCRETE SUPERSTRUCTURE	CUYD.	427.3		427.3
Collarbeam	Each		2	2
Collarbeam Excavation	CUYD.		12	12

WATERWAY INFORMATION

DRAINAGE AREA = 237 SQ. MI. LOW GRADE ELEV. 601.07 @ STA. 115+84

FLOOD	FREQ. YR.	O. C.F.S.	OPENING SQ. FT.	NAT. H.W.E.	HEAD-FT. EXIST.	HEAD-FT. PROP.	HEADWATER EL. EXIST.	HEADWATER EL. PROP.
DESIGN	50	7961	2605	574.1	0.30	0.30	574.4	574.4
BASE	100	9982	2746	574.7	0.38	0.38	575.08	575.08
OVERTOPPING								
MAX. CALC.	500	11672		576.9				

AS REVISED

PREPARED BY
 Harold P. Ward & Associates
 DIXON, PRINCETON, & ROCKFORD, ILLINOIS

LOADING HS 20-44

DO NOT SCALE DRAWING. FOLLOW DIMENSIONS

James E. Ryland

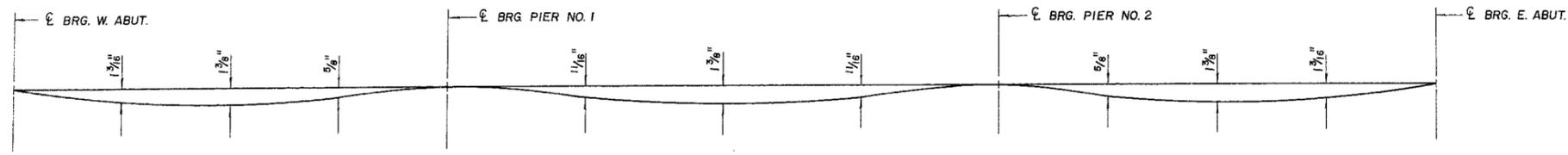
GENERAL PLAN AND ELEVATION
 F.A.P. RTE. 607
 SECTION 124 BR
 LASALLE COUNTY
 STATION 113 + 70.00

As Revised 11-16-87 L.W. As Revised 4-26-88 L.W.

F.A. ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
607	124 BR	LASALLE	25	13

ILLINOIS PROJECT

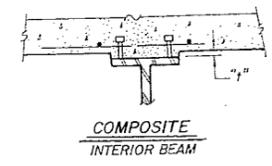
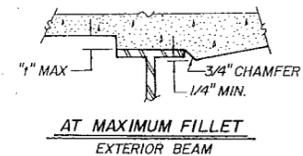
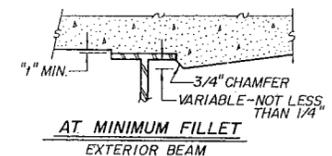
BR. SHEET 2 OF 16 SHEETS



DEAD LOAD DEFLECTION DIAGRAM

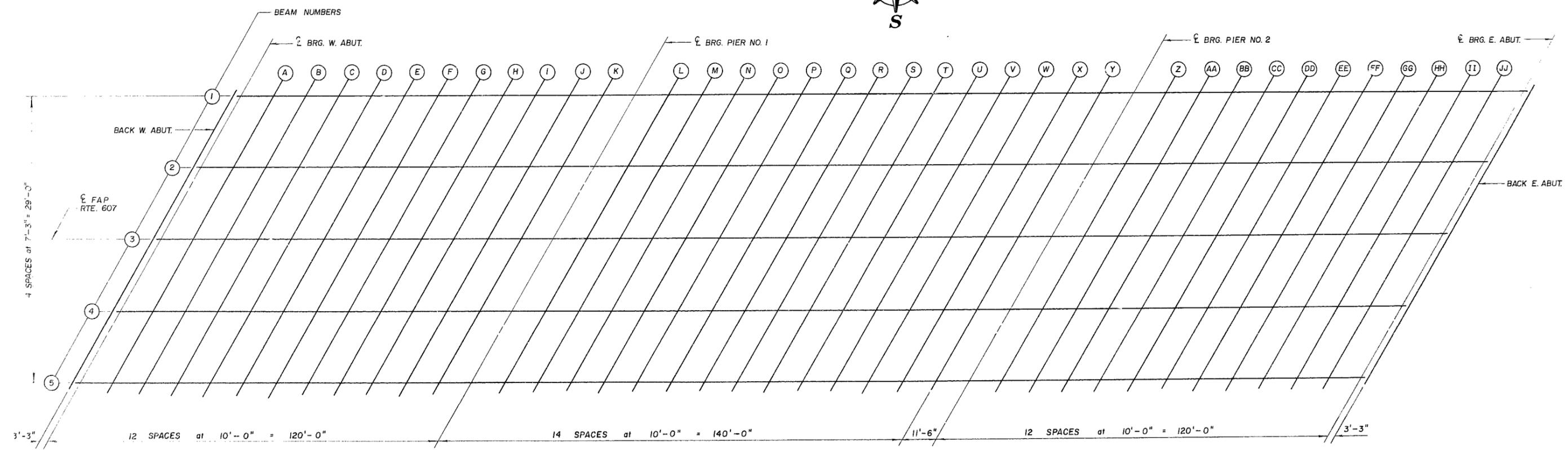
(INCLUDES WEIGHT OF CONCRETE ONLY)

NOTE: THE ABOVE DEFLECTIONS ARE NOT TO BE USED IN THE FIELD IF THE ENGINEER IS WORKING FROM THE GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS AS SHOWN BELOW.



NOTE: TO DETERMINE "f" - AFTER ALL STRUCTURAL STEEL HAS BEEN ERECTED ELEVATIONS OF TOP FLANGES OF THE BEAMS SHALL BE TAKEN AT THE STATIONS SHOWN THESE ELEVATIONS SUBTRACTED FROM THE THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS MINUS FLOOR THICKNESS EQUALS THE FILLET HEIGHTS ABOVE TOP FLANGE OF BEAMS.

FILLET HEIGHTS



PLAN

DECK ELEVATIONS
F.A.P. RTE. 607
SECTION 124 BR
LASALLE COUNTY
STATION 113+70.00

PREPARED BY
Harold P. Wendler & Associates
DIXON, PRINCETON, & ROCKFORD, ILLINOIS

DO NOT SCALE DRAWING, FOLLOW DIMENSIONS

BEAM NO. 1

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEORETICAL GRADE ADJ. FOR DEAD LOAD DEFLECTION
BK W ABUT	111+82.14	14.5	602.639	602.639
CL BRG W ABUT	111+85.39	14.5	602.598	602.598
A	111+95.39	14.5	602.475	602.540
B	112+05.39	14.5	602.362	602.485
C	112+15.39	14.5	602.260	602.427
D	112+25.39	14.5	602.168	602.361
E	112+35.39	14.5	602.087	602.288
F	112+45.39	14.5	602.016	602.207
G	112+55.39	14.5	601.955	602.120
H	112+65.39	14.5	601.905	602.032
I	112+75.39	14.5	601.865	601.950
J	112+85.39	14.5	601.830	601.874
K	112+95.39	14.5	601.797	601.810
CL BRG PIER 1	113+05.39	14.5	601.760	601.760
L	113+15.39	14.5	601.725	601.736
M	113+25.39	14.5	601.690	601.730
N	113+35.39	14.5	601.655	601.733
O	113+45.39	14.5	601.620	601.739
P	113+55.39	14.5	601.585	601.742
Q	113+65.39	14.5	601.550	601.735
R	113+75.39	14.5	601.515	601.716
S	113+85.39	14.5	601.480	601.682
T	113+95.39	14.5	601.445	601.633
U	114+05.39	14.5	601.410	601.571
V	114+15.39	14.5	601.375	601.500
W	114+25.39	14.5	601.340	601.424
X	114+35.39	14.5	601.305	601.350
Y	114+45.39	14.5	601.270	601.284
CL BRG PIER 2	114+56.89	14.5	601.230	601.230
Z	114+66.89	14.5	601.195	601.208
AA	114+76.89	14.5	601.160	601.204
BB	114+86.89	14.5	601.125	601.210
CC	114+96.89	14.5	601.090	601.217
DD	115+06.89	14.5	601.055	601.220
EE	115+16.89	14.5	601.020	601.211
FF	115+26.89	14.5	600.985	601.186
GG	115+36.89	14.5	600.950	601.143
HH	115+46.89	14.5	600.915	601.082
II	115+56.89	14.5	600.880	601.003
JJ	115+66.89	14.5	600.860	600.925
CL BRG E ABUT	115+76.89	14.5	600.848	600.848
BK E ABUT	115+80.14	14.5	600.846	600.846

BEAM NO. 2

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEORETICAL GRADE ADJ. FOR DEAD LOAD DEFLECTION
BK W ABUT	111+76.57	7.25	602.842	602.842
CL BRG W ABUT	111+79.82	7.25	602.798	602.798
A	111+89.82	7.25	602.669	602.734
B	111+99.82	7.25	602.550	602.673
C	112+09.82	7.25	602.442	602.609
D	112+19.82	7.25	602.345	602.538
E	112+29.82	7.25	602.257	602.458
F	112+39.82	7.25	602.181	602.372
G	112+49.82	7.25	602.114	602.279
H	112+59.82	7.25	602.058	602.185
I	112+69.82	7.25	602.012	602.097
J	112+79.82	7.25	601.976	602.020
K	112+89.82	7.25	601.941	601.954
CL BRG PIER 1	112+99.82	7.25	601.906	601.906
L	113+09.82	7.25	601.871	601.882
M	113+19.82	7.25	601.836	601.876
N	113+29.82	7.25	601.801	601.879
O	113+39.82	7.25	601.766	601.885
P	113+49.82	7.25	601.731	601.888
Q	113+59.82	7.25	601.696	601.881
R	113+69.82	7.25	601.661	601.862
S	113+79.82	7.25	601.626	601.828
T	113+89.82	7.25	601.591	601.779
U	113+99.82	7.25	601.556	601.717
V	114+09.82	7.25	601.521	601.646
W	114+19.82	7.25	601.486	601.570
X	114+29.82	7.25	601.451	601.496
Y	114+39.82	7.25	601.416	601.430
CL BRG PIER 2	114+51.32	7.25	601.376	601.376
Z	114+61.32	7.25	601.341	601.354
AA	114+71.32	7.25	601.306	601.350
BB	114+81.32	7.25	601.271	601.356
CC	114+91.32	7.25	601.236	601.363
DD	115+01.32	7.25	601.201	601.366
EE	115+11.32	7.25	601.166	601.357
FF	115+21.32	7.25	601.131	601.332
GG	115+31.32	7.25	601.096	601.289
HH	115+41.32	7.25	601.061	601.228
II	115+51.32	7.25	601.026	601.149
JJ	115+61.32	7.25	600.998	601.063
CL BRG E ABUT	115+71.32	7.25	600.980	600.980
BK E ABUT	115+74.57	7.25	600.977	600.977

BEAM NO. 3

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEORETICAL GRADE ADJ. FOR DEAD LOAD DEFLECTION
BK W ABUT	111+71.00	0.0	603.033	603.033
CL BRG W ABUT	111+74.25	0.0	602.987	602.987
A	111+84.25	0.0	602.853	602.918
B	111+94.25	0.0	602.728	602.851
C	112+04.25	0.0	602.615	602.782
D	112+14.25	0.0	602.511	602.704
E	112+24.25	0.0	602.418	602.619
F	112+34.25	0.0	602.335	602.526
G	112+44.25	0.0	602.263	602.428
H	112+54.25	0.0	602.201	602.328
I	112+64.25	0.0	602.150	602.235
J	112+74.25	0.0	602.109	602.153
K	112+84.25	0.0	602.074	602.087
CL BRG PIER #1	112+94.25	0.0	602.039	602.039
L	113+04.25	0.0	602.004	602.015
M	113+14.25	0.0	601.969	602.009
N	113+24.25	0.0	601.934	602.012
O	113+34.25	0.0	601.899	602.018
P	113+44.25	0.0	601.864	602.021
Q	113+54.25	0.0	601.829	602.014
R	113+64.25	0.0	601.794	601.995
S	113+74.25	0.0	601.759	601.961
T	113+84.25	0.0	601.724	601.912
U	113+94.25	0.0	601.689	601.850
V	114+04.25	0.0	601.654	601.779
W	114+14.25	0.0	601.619	601.703
X	114+24.25	0.0	601.584	601.629
Y	114+34.25	0.0	601.549	601.563
CL BRG PIER #2	114+45.75	0.0	601.508	601.508
Z	114+55.75	0.0	601.473	601.486
AA	114+65.75	0.0	601.438	601.482
BB	114+75.75	0.0	601.403	601.488
CC	114+85.75	0.0	601.368	601.495
DD	114+95.75	0.0	601.333	601.498
EE	115+05.75	0.0	601.298	601.489
FF	115+15.75	0.0	601.263	601.464
GG	115+25.75	0.0	601.228	601.421
HH	115+35.75	0.0	601.193	601.360
II	115+45.75	0.0	601.158	601.281
JJ	115+55.75	0.0	601.125	601.190
CL BRG E ABUT	115+65.75	0.0	601.101	601.101
BK E ABUT	115+69.00	0.0	601.096	601.096

DECK ELEVATIONS
 F.A.P ROUTE 607
 SECTION 124 BR
 LASALLE COUNTY
 STATION 113 +70.00

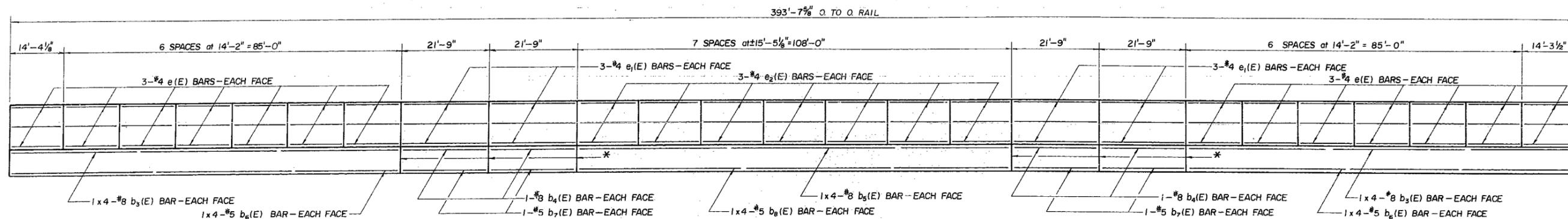
BEAM NO. 4

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEORETICAL GRADE ADJ. FOR DEAD LOAD DEFLECTION
BK W ABUT	111+65.43	7.25	603.001	603.001
CL BRG W ABUT	111+68.68	7.25	602.953	602.953
A	111+78.68	7.25	602.813	602.878
B	111+88.68	7.25	602.683	602.806
C	111+98.68	7.25	602.563	602.730
D	112+08.68	7.25	602.454	602.647
E	112+18.68	7.25	602.355	602.556
F	112+28.68	7.25	602.267	602.458
G	112+38.68	7.25	602.189	602.354
H	112+48.68	7.25	602.121	602.248
I	112+58.68	7.25	602.064	602.149
J	112+68.68	7.25	602.017	602.061
K	112+78.68	7.25	601.980	601.993
CL BRG PIER #1	112+88.68	7.25	601.945	601.945
L	112+98.68	7.25	601.910	601.921
M	113+08.68	7.25	601.875	601.915
N	113+18.68	7.25	601.840	601.918
O	113+28.68	7.25	601.805	601.924
P	113+38.68	7.25	601.770	601.927
Q	113+48.68	7.25	601.735	601.920
R	113+58.68	7.25	601.700	601.901
S	113+68.68	7.25	601.665	601.867
T	113+78.68	7.25	601.630	601.818
U	113+88.68	7.25	601.595	601.756
V	113+98.68	7.25	601.560	601.685
W	114+08.68	7.25	601.525	601.609
X	114+18.68	7.25	601.490	601.535
Y	114+28.68	7.25	601.455	601.469
CL BRG PIER #2	114+40.18	7.25	601.415	601.415
Z	114+50.18	7.25	601.380	601.393
AA	114+60.18	7.25	601.345	601.389
BB	114+70.18	7.25	601.310	601.395
CC	114+80.18	7.25	601.275	601.402
DD	114+90.18	7.25	601.240	601.405
EE	115+00.18	7.25	601.205	601.396
FF	115+10.18	7.25	601.170	601.371
GG	115+20.18	7.25	601.135	601.328
HH	115+30.18	7.25	601.100	601.267
II	115+40.18	7.25	601.065	601.188
JJ	115+50.18	7.25	601.030	601.095
CL BRG E ABUT	115+60.18	7.25	601.000	601.000
BK E ABUT	115+63.43	7.25	600.994	600.994

BEAM NO. 5

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEORETICAL GRADE ADJ. FOR DEAD LOAD DEFLECTION
BK W ABUT	111+59.86	14.5	602.959	602.959
CL BRG W ABUT	111+63.11	14.5	602.910	602.910
A	111+73.11	14.5	602.763	602.828
B	111+83.11	14.5	602.628	602.751
C	111+93.11	14.5	602.502	602.669
D	112+03.11	14.5	602.387	602.580
E	112+13.11	14.5	602.282	602.483
F	112+23.11	14.5	602.188	602.379
G	112+33.11	14.5	602.104	602.269
H	112+43.11	14.5	602.031	602.158
I	112+53.11	14.5	601.968	602.053
J	112+63.11	14.5	601.915	601.959
K	112+73.11	14.5	601.873	601.886
CL BRG PIER #1	112+83.11	14.5	601.838	601.838
L	112+93.11	14.5	601.803	601.814
M	113+03.11	14.5	601.768	601.808
N	113+13.11	14.5	601.733	601.811
O	113+23.11	14.5	601.698	601.817
P	113+33.11	14.5	601.663	601.820
Q	113+43.11	14.5	601.628	601.813
R	113+53.11	14.5	601.593	601.794
S	113+63.11	14.5	601.558	601.760
T	113+73.11	14.5	601.523	601.711
U	113+83.11	14.5	601.488	601.649
V	113+93.11	14.5	601.453	601.578
W	114+03.11	14.5	601.418	601.502
X	114+13.11	14.5	601.383	601.428
Y	114+23.11	14.5	601.348	601.362
CL BRG PIER #2	114+34.61	14.5	601.308	601.308
Z	114+44.61	14.5	601.273	601.286
AA	114+54.61	14.5	601.238	601.282
BB	114+64.61	14.5	601.203	601.288
CC	114+74.61	14.5	601.168	601.295
DD	114+84.61	14.5	601.133	601.298
EE	114+94.61	14.5	601.098	601.289
FF	115+04.61	14.5	601.063	601.264
GG	115+14.61	14.5	601.028	601.221
HH	115+24.61	14.5	600.993	601.160
II	115+34.61	14.5	600.958	601.081
JJ	115+44.61	14.5	600.923	600.988
CL BRG E ABUT	115+54.61	14.5	600.889	600.889
BK E ABUT	115+57.86	14.5	600.879	600.879

DECK ELEVATIONS
 F.A.P. ROUTE 607
 SECTION 124 BR
 LASALLE COUNTY
 STATION 113+70.00



NOTE: BARS INDICATED THUS: 1x4-#8 b3(E) ETC. INDICATES 1 LINE OF BARS WITH 2 LENGTHS PER LINE.

PARAPET JOINT SPACING
ALL DIMENSIONS ARE ALONG INSIDE FACE OF PARAPET

* 1/8" ALUMINUM SHEET JOINT IN BASE OF PARAPET

GENERAL NOTES

CONTINUOUS SEAL NEOPRENE EXPANSION JOINT CONSIST OF MOLDED ANCHOR BLOCKS OF ELASTOMER AND STEEL. FIELD ASSEMBLED OVER CONTINUOUS LENGTHS OF ELASTOMERIC MEMBRANE. SEE SPECIAL PROVISIONS.

THE ELASTOMERIC MEMBRANE SHALL BE PREMOLDED WITH A SINGLE OR A DOUBLE UPWARD CONVOLUTION THAT WILL HAVE A "MEMORY" TO RETURN TO ITS MOLDED POSITION UPON JOINT CLOSURE.

THE STEEL REINFORCEMENT MUST EXTEND UP THE BACK FACE OF ANCHOR BLOCKS WHEN ASPHALT SURFACES ARE USED BUT IS OPTIONAL IN CONCRETE BLOCKOUT.

THE CONVOLUTION LENGTH SHALL BE SUCH THAT THE EXTENDED LENGTH WILL NOT BE GREATER THAN THE MANUFACTURED LENGTH WHEN THE JOINT IS FULLY EXPANDED IN ITS DESIGN RANGE AND WILL NOT PROTRUDE ABOVE THE ANCHOR BLOCKS WHEN THE JOINT IS FULLY COMPRESSED.

JOINT OPENINGS SHALL BE ADJUSTED IN ACCORDANCE WITH ARTICLE 503.07(C) OF THE STANDARD SPECIFICATIONS WHEN THE DECK IS POURED AT A AMBIENT TEMPERATURE OTHER THAN 50° F.

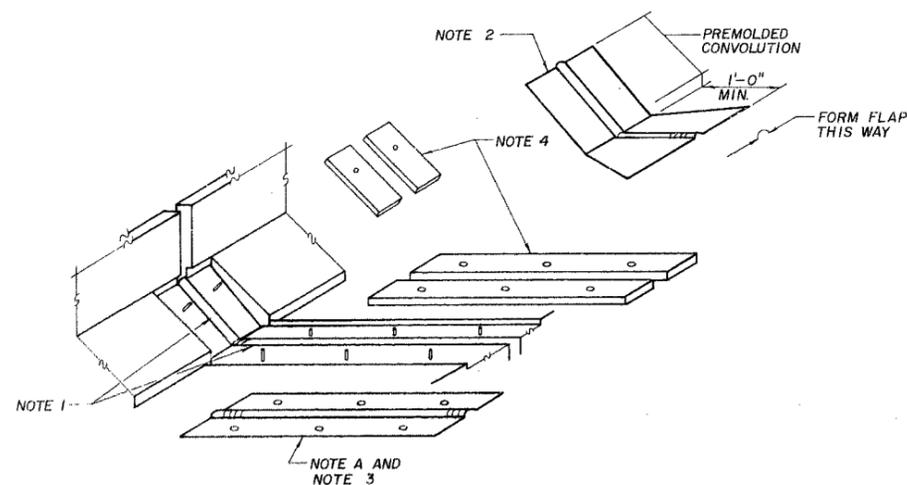
THE PARAPET FLAPS MAY BE FURNISHED FACTORY VULCANIZED TO THE ROADWAY MEMBRANE PROVIDED THE CENTERLINE OF THE CONVOLUTION IS MAINTAINED AND THE PROCESS AND METHOD MEET THE APPROVAL OF THE ENGINEER.

ANCHOR BOLTS, WASHERS AND NUTS, TO BE PLATED AGAINST CORROSION IN ACCORDANCE WITH THE SPECIAL PROVISIONS, SHALL BE ZINC-COATED BY THE MECHANICAL PLATING METHOD CONFORMING TO ASTM B695, CLASS 50. ZINC-COATED NUTS SHALL BE TAPPED OVERSIZE IN ACCORDANCE WITH THE REQUIREMENTS OF AASHTO M291 AND SHALL MEET THE SUPPLEMENTARY REQUIREMENTS S1.1 THRU S1.2.1 OF THE SAME SPECIFICATIONS FOR LUBRICANT AND TESTING.

INSTALLATION NOTES

- (1) INSTALL SPONGE MANDRELS INTO POSITIONS SHOWN TO FORM FLAP CONVOLUTION.
- (2) INSTALL PARAPET PIECE (TRIM ROADWAY FLAP TO FIT BEFORE APPLYING EPOXY).
- (3) INSTALL CONTINUOUS SEAL IN ROADWAY.
- (4) INSTALL ANCHOR BLOCKS AS INDICATED.

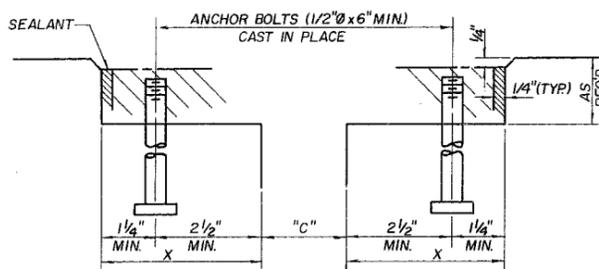
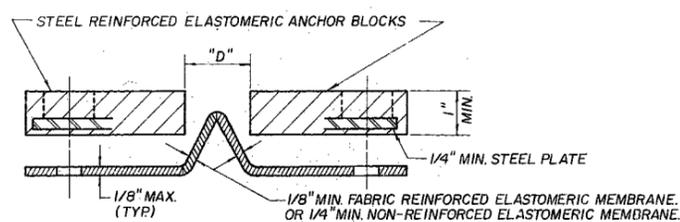
NOTE A: MAXIMUM SPACING OF ANCHOR BOLTS SHALL BE 12" CENTERS.



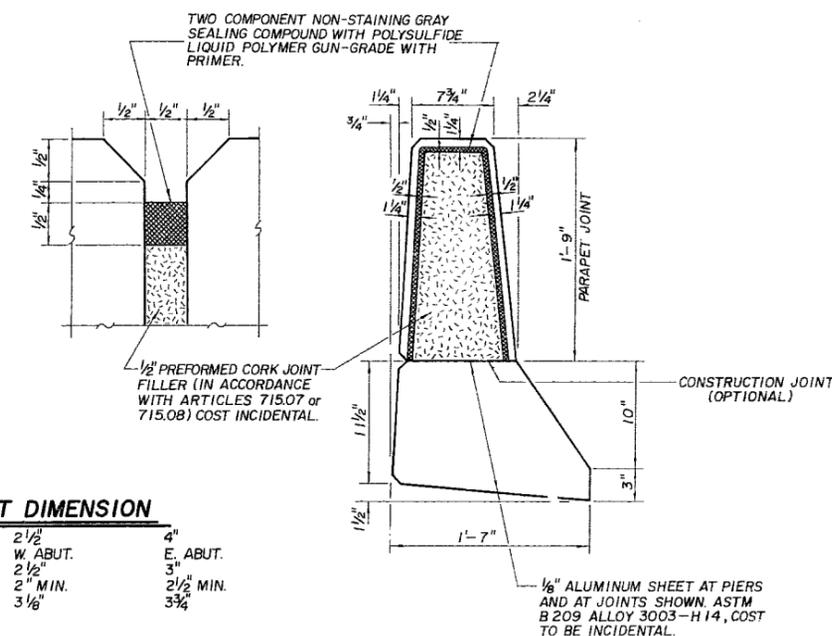
TYPICAL END TREATMENT

MIN. LAP REQ'D.

- #4 BAR 1'-4"
- #5 BAR 1'-8"
- #8 BAR 3'-8"



CROSS SECTION

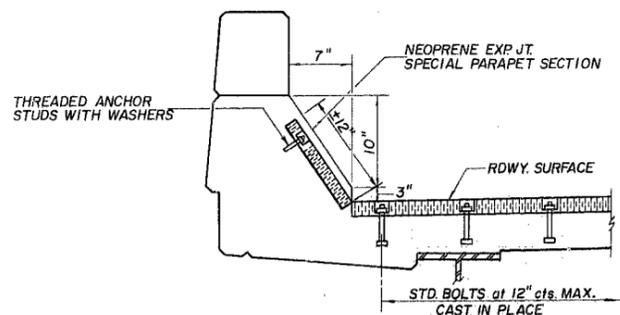


EXPANSION JOINT DIMENSION

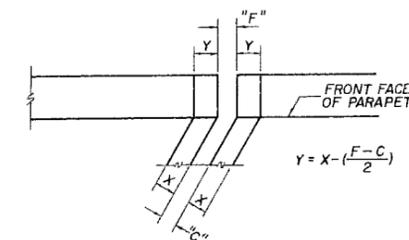
JOINT SIZE	W. ABUT.	E. ABUT.
2 1/2"	2 1/2"	4"
"C" at 50° F	2 1/2"	3"
"D" at 50° F	2" MIN.	2 1/2" MIN.
"F" at 50° F	3 1/8"	3 3/4"

1/8" ALUMINUM SHEET AT PIERS AND AT JOINTS SHOWN. ASTM B 209 ALLOY 3003-H 14, COST TO BE INCIDENTAL.

DETAILS OF PARAPET JOINT



CURB INSTALLATION

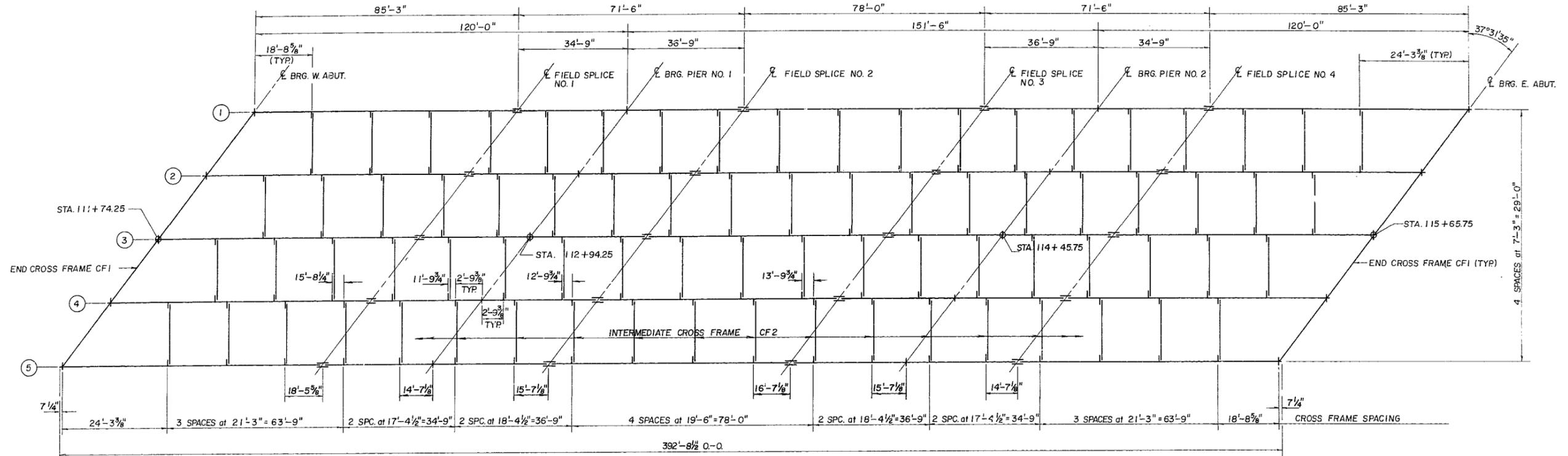


FORMING BLOCKOUT SKETCH

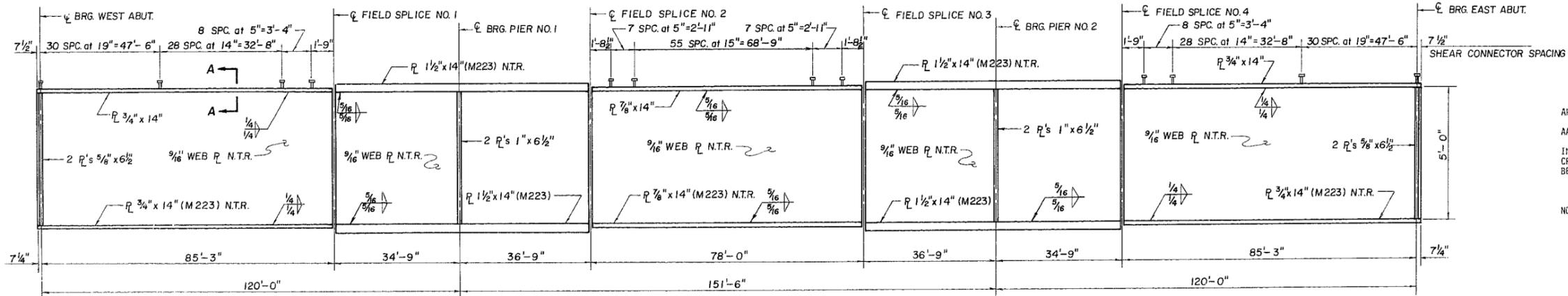
PREPARED BY
Harold P. Wendler & Associates
DIXON, PRINCETON, & ROCKFORD, ILLINOIS

DO NOT SCALE DRAWING, FOLLOW DIMENSIONS

SUPERSTRUCTURE DETAILS
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SECTION 124 BR
LASALLE COUNTY
STATION 113 + 70.00



FRAMING PLAN



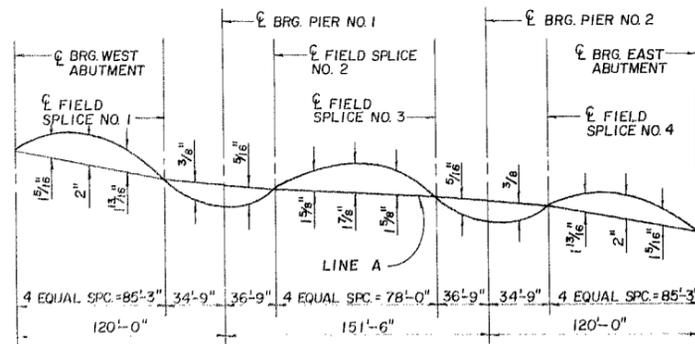
GENERAL NOTES

ALL LONGITUDINAL AND TRANSVERSE DIMENSIONS ARE MEASURED HORIZONTALLY.
ALL STRUCTURAL STEEL SHALL CONFORM TO AASHTO M-183 UNLESS OTHERWISE NOTED.
ALL BEARING STIFFENERS SHALL BE VERTICAL IN THE COMPLETED STRUCTURE AND ALL INTERMEDIATE CROSS FRAMES SHALL BE NORMAL TO THE GIRDERS.

FOR NOTCH TOUGHNESS REQUIREMENT, SEE GENERAL NOTES ON SHEET 11.

GIRDER ELEVATION

NOTE: ALL STEEL LABELED (M223) SHALL BE AASHTO M 223 - GRADE 50.
(N.T.R. INDICATES NOTCH TOUGHNESS REQUIREMENTS)

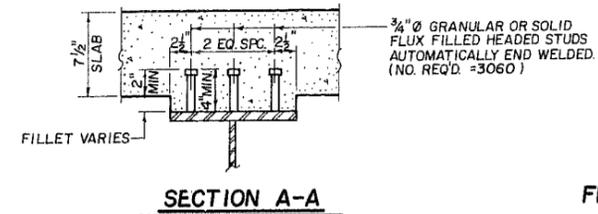


CAMBER DIAGRAM (*)

NOTES: LINE A IS A STRAIGHT LINE BETWEEN \bar{C} BEARING STIFFENER AT ABUTMENTS AND \bar{C} FIELD SPLICE AND BETWEEN \bar{C} FIELD SPLICES AT TOP OF WEB PLATE.
CAMBER SHOWN INCLUDES ALLOWANCES FOR VERTICAL CURVE AND FULL DEAD LOAD DEFLECTION, EXCLUDING FUTURE WEARING SURFACES.

TOP OF WEB ELEVATIONS (*)					
GIRDER LOCATION	1	2	3	4	5
\bar{C} BRG. W. ABUT.	601.85	602.05	602.24	602.20	602.16
\bar{C} FIELD SPLICE #1	600.99	601.14	601.28	601.19	601.10
\bar{C} BRG. PIER #1	600.95	601.09	601.23	601.13	601.03
\bar{C} FIELD SPLICE #2	600.74	600.88	601.01	600.92	600.81
\bar{C} FIELD SPLICE #3	600.46	600.61	600.74	600.65	600.54
\bar{C} BRG. PIER #2	600.42	600.56	600.70	600.60	600.50
\bar{C} FIELD SPLICE #4	600.21	600.36	600.49	600.40	600.29
\bar{C} BRG. E. ABUT.	600.10	600.23	600.35	600.25	600.14

* FOR FABRICATION ONLY

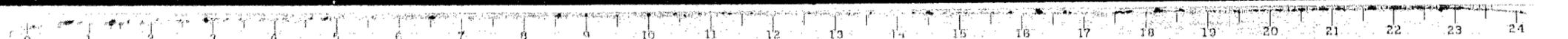


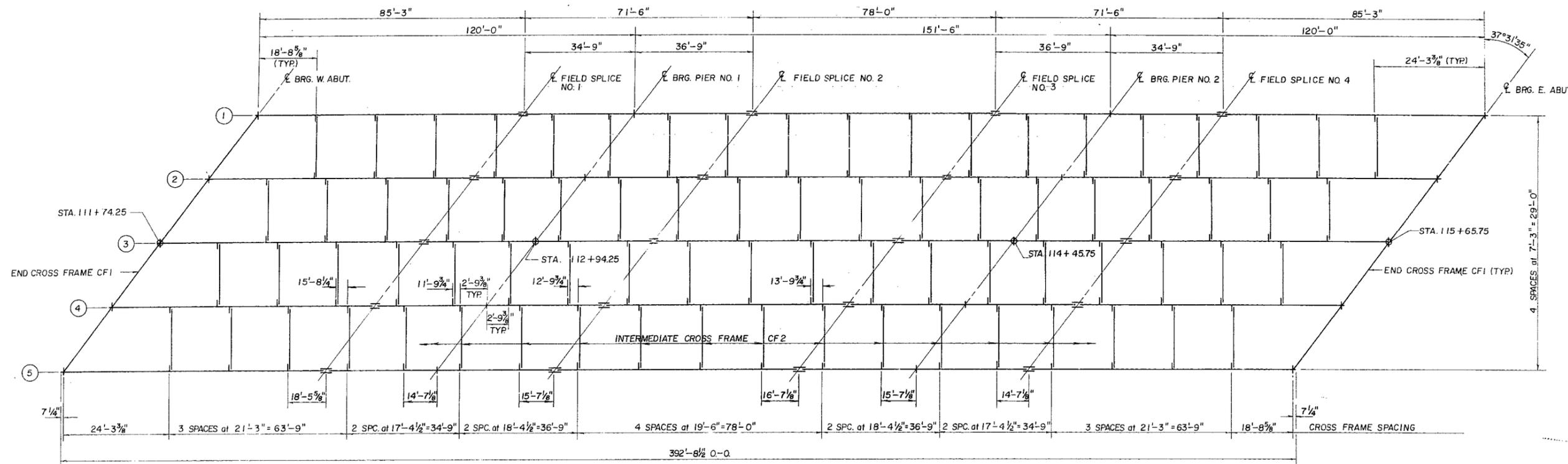
SECTION A-A

FRAMING PLAN & GIRDER ELEVATION
F.A.P. RTE. 607
SECTION 124 BR
LASALLE COUNTY
STATION 113+70.00

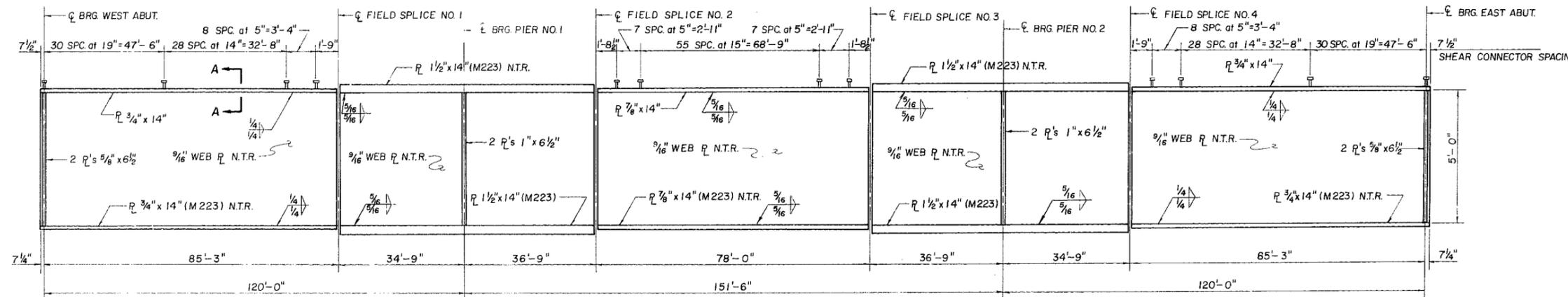
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DIXON, PRINCETON, & ROCKFORD, ILLINOIS

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FRAMING PLAN



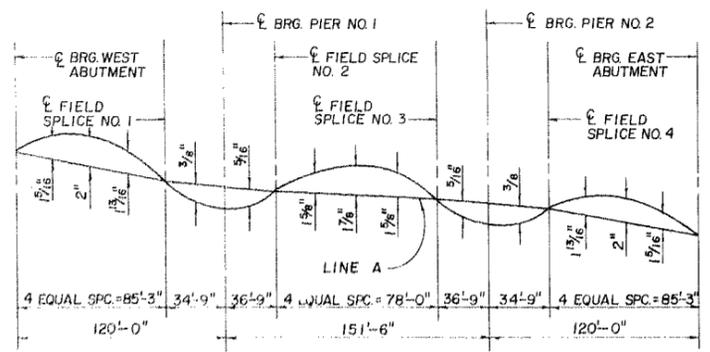
GIRDER ELEVATION

NOTE: ALL STEEL LABELED (M223) SHALL BE AASHTO M 223 - GRADE 50. (N.T.R. INDICATES NOTCH TOUGHNESS REQUIREMENTS)

GENERAL NOTES

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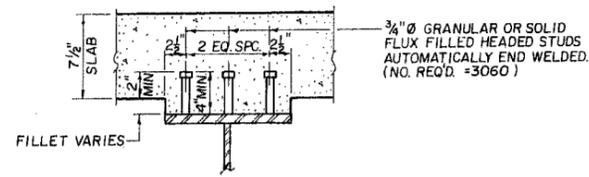
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AS REVISED

TOP OF WEB ELEVATIONS (*)					
GIRDER LOCATION	1	2	3	4	5
\bar{C} BRG. W. ABUT.	601.85	602.05	602.24	602.20	602.16
\bar{C} FIELD SPLICE #1	600.99	601.14	601.28	601.19	601.10
\bar{C} BRG. PIER #1	600.37	600.28	601.12	601.03	600.93
\bar{C} FIELD SPLICE #2	600.74	600.88	601.01	600.92	600.81
\bar{C} FIELD SPLICE #3	600.46	600.61	600.74	600.65	600.54
\bar{C} BRG. PIER #2	600.30	600.35	600.39	600.49	600.39
\bar{C} FIELD SPLICE #4	600.21	600.36	600.49	600.40	600.29
\bar{C} BRG. E. ABUT.	600.10	600.23	600.35	600.25	600.14

* FOR FABRICATION ONLY

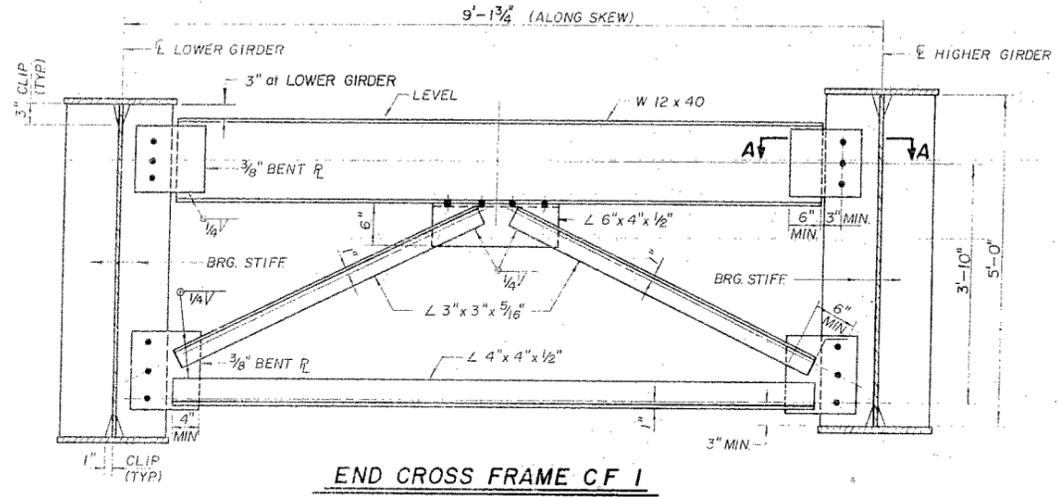


SECTION A-A

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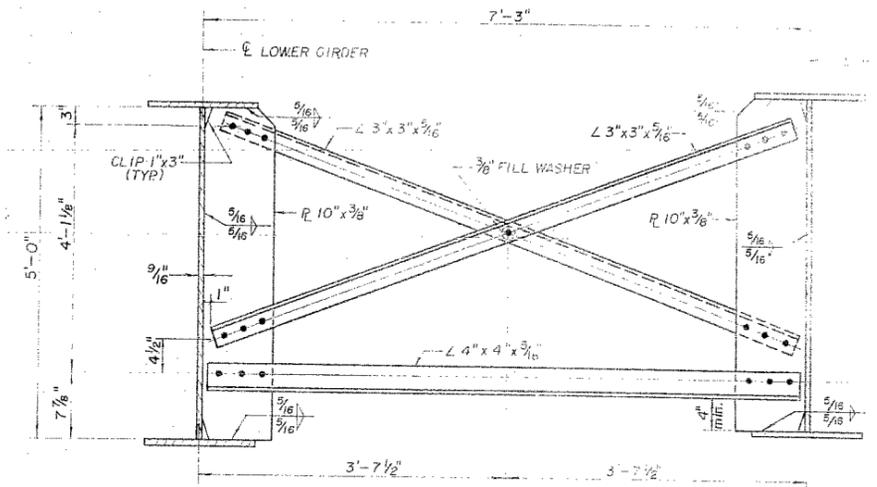
FRAMING PLAN & GIRDER ELEVATION
F.A.P. RTE. 607
SECTION 124 BR
LASALLE COUNTY
STATION 113+70.00

DO NOT SCALE DRAWING, FOLLOW DIMENSIONS



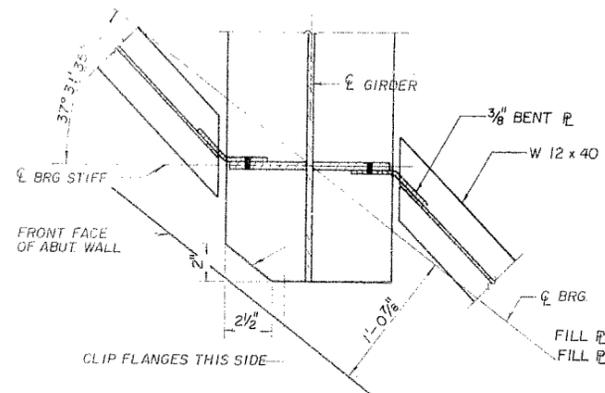
END CROSS FRAME CF 1

NOTE: PROVIDE 1 1/8" Ø HOLES FOR 3/8" H.S. BOLTS WITH HARDENED WASHERS OVER ALL OVERSIZE HOLES.

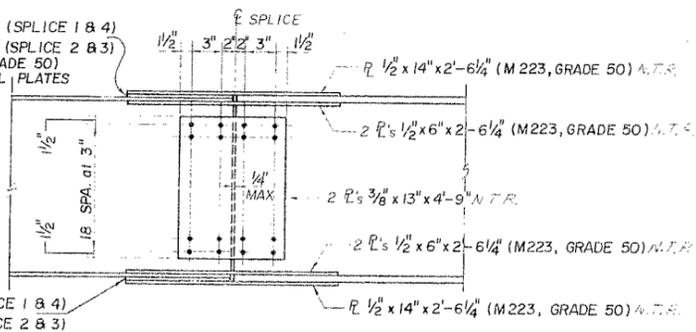
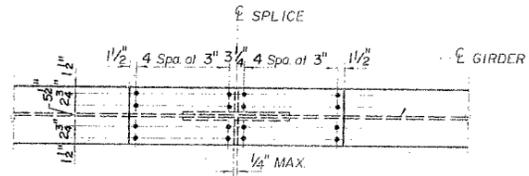


INTERMEDIATE CROSS FRAME CF 2

NOTE: PROVIDE 1 1/8" Ø HOLES FOR 3/8" H.S. BOLTS WITH HARDENED WASHERS OVER ALL OVERSIZE HOLES.

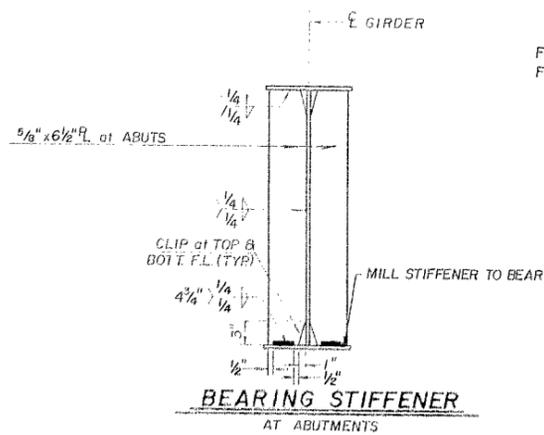


SECTION A-A

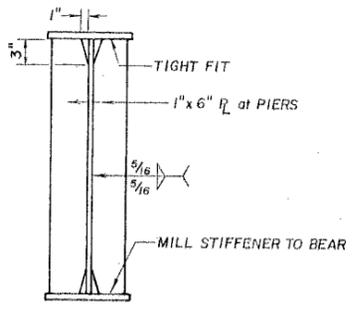


FIELD SPLICE DETAILS

NOTE: 3/8" Ø BOLTS SHALL BE USED FOR FLANGE & WEB SPLICE, OPEN HOLES 1 5/8" Ø



BEARING STIFFENER AT ABUTMENTS



BEARING STIFFENER AT PIERS

INTERIOR BEAM MOMENT TABLE

	04 SPAN 1	PIER 1 & 2	05 SPAN 2
I_s (in ⁴)	29500	49839	32823
I_c (in ⁴)	69707		74733
S_x (in ³)	959	1582	1063
S_y (in ³)	1364		1472
Q (k/ft)	0.944	1.267	0.344
M_D (ft-k)	758	2314	671
S_D (k/ft)	0.342		0.342
M_{SD} (ft-k)	334		362
M_{LL} (ft-k)	1058	252	1156
M_{IMP} (ft-k)	203	194	222
$5/8(M_{LL} + I)$	2101	1910	1139
M_a	4152	5491	4354
M_u	8163	5	9715
$f_s \phi$ (non-comp)(ksi)	9.5	17.5	7.6
$f_s \phi$ (comp)(ksi)	3.3		3.4
$f_s \phi$ (LL + I)(ksi)	18.5	14.5	18.7
f_s (overload)(ksi)	31.3	32.0	29.7
f_s (total)(ksi)	40.7	41.6	38.6
V_R	48.5		29.8

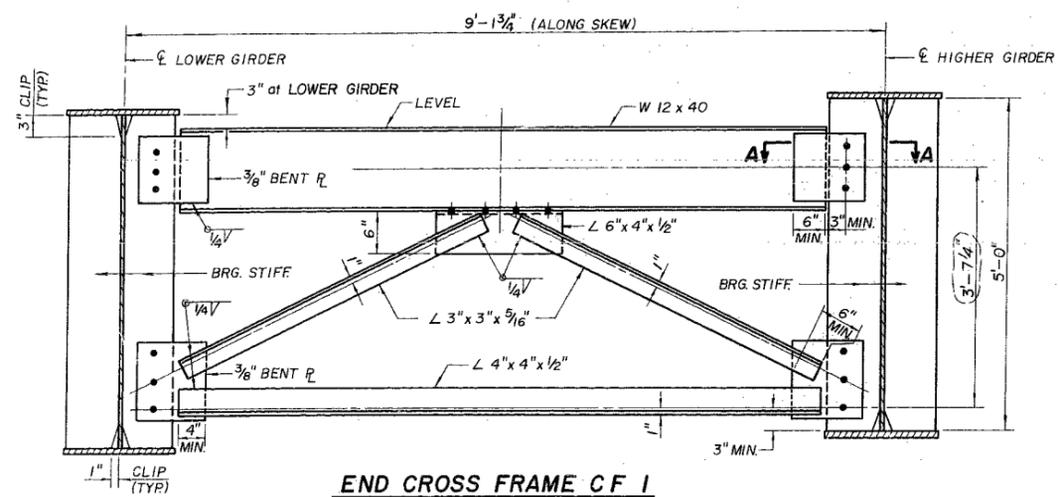
INTERIOR GIRDER REACTION TABLE

	ABUTS	PIERS
R_L (k)	55.6	55.6
R_U (k)	42.3	42.3

I_s and S_x are the moment of inertia and section modulus of the steel section used in computing f_s (Total and Overload).
 I_c and S_c are the moment of inertia and section modulus of the composite section used in computing f_s (Total and Overload).
 V_R is the maximum $L + I$ impact shear range in ψ psi.
 f_s (Total) is the sum of the stresses due to $1.3 [M_D + M_{SD} + M_{LL} + I]$
 f_s (Overload) is the sum of the stresses due to $M_D + M_{SD} + M_{LL} + I$
 M_D - Moment due to dead loads on non-composite section.
 M_{SD} - Moment due to dead loads on composite section.
 M_{LL} - Moment due to live load on non-composite or composite section.
 I - Live load impact.
 M_u = Full plastic moment capacity for compact, braced section.
 M_a (Applied Moment) = $1.3 [M_D + M_{SD} + M_{LL} + I]$

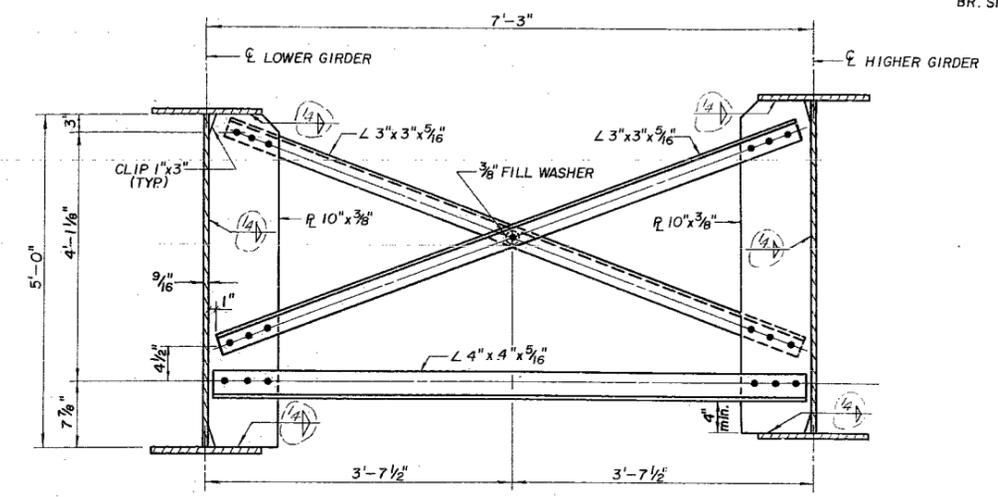
STRUCTURAL STEEL DETAILS
 F.A.P. RTE. 607
 SECTION 124 BR
 LASALLE COUNTY
 STATION 113 + 70.00

PREPARED BY
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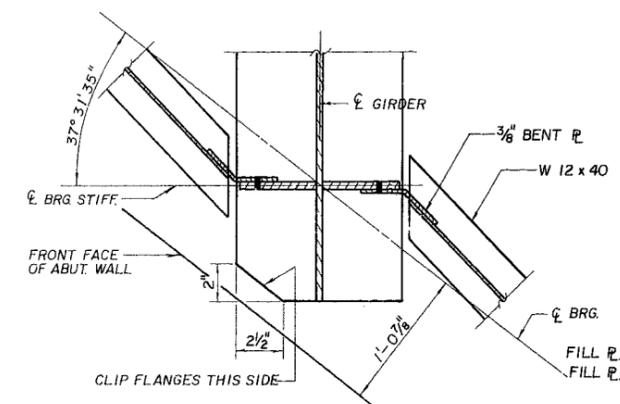
END CROSS FRAME CF 1

NOTE: PROVIDE 1/16" HOLES FOR 3/8" H.S. BOLTS WITH HARDENED WASHERS OVER ALL OVERSIZE HOLES.

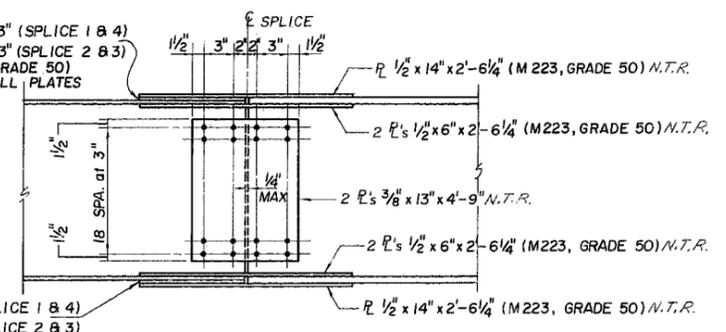
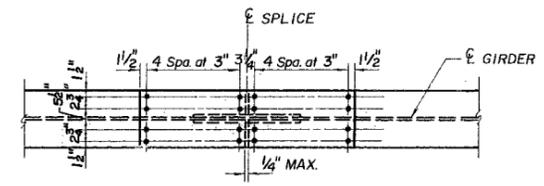


INTERMEDIATE CROSS FRAME CF 2

NOTE: PROVIDE 1/16" HOLES FOR 3/8" H.S. BOLTS WITH HARDENED WASHERS OVER ALL OVERSIZE HOLES.



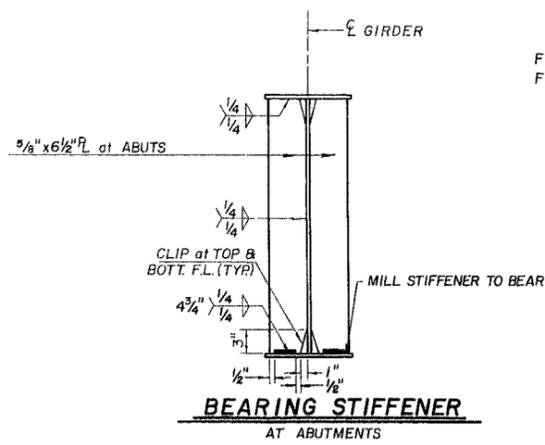
SECTION A-A



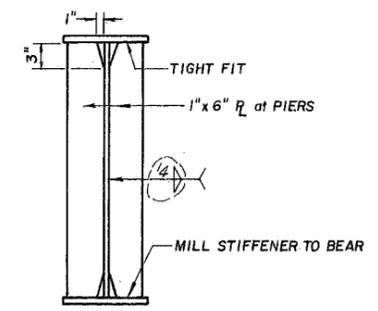
FIELD SPLICE DETAILS

FILL #3/4 x 14" x 1'-3" (SPLICE 1 & 4)
FILL #5/8 x 14" x 1'-3" (SPLICE 2 & 3)
(M 223, GRADE 50)
BOTH FILL PLATES

NOTE: 7/8" BOLTS SHALL BE USED FOR FLANGE & WEB SPLICE, OPEN HOLES 15/16" Ø



BEARING STIFFENER AT ABUTMENTS



BEARING STIFFENER AT PIERS

INTERIOR BEAM MOMENT TABLE

	0.4 SPAN 1	PIER 1 & 2	0.5 SPAN 2
I_s (in ⁴)	29500	49839	32823
I_c (in ⁴)	69707		74733
S_s (in ³)	959	1582	1063
S_c (in ³)	1364		1472
Q (k/ft)	0.944	1.287	0.944
M_{DL} (ft-k)	758	2314	671
S_{DL} (k/ft)	0.343		0.343
M_{SDL} (ft-k)	334		381
M_{LL} (ft-k)	1058	952	1156
M_{IMP} (ft-k)	203	194	222
$5/8(M_{LL} + I)$	2101	1910	2296
M_a	4152	5491	4354
M_u	8163		8715
$f_s \rho$ (non-comp)(ksi)	9.5	17.5	7.6
$f_s \rho$ (comp)(ksi)	3.3		3.4
$f_s 5/8(LL + I)(ksi)$	18.5	14.5	18.7
f_s (overload)(ksi)	31.3	32.0	29.7
f_s (total)(ksi)	40.7	41.6	38.6
VR	48.5		99.0

INTERIOR GIRDER REACTION TABLE

	ABUTS.	PIER 1 & 2
$R \rho$ (k)	55.6	197.7
$R \rho$ (k)	42.3	84.2
IMPACT (k)	8.6	16.2
R total (k)	106.5	298.1

I_s and S_s are the moment of inertia and section modulus of the steel section used in computing f_s (Total and Overload).

I_c and S_c are the moment of inertia and section modulus of the composite section used in computing f_s (Total and Overload).

VR is the maximum $L +$ impact shear range in span.

f_s (Total) is the sum of the stresses due to $1.3 [M \rho + M_s \rho + 5/3 (M L + I)]$

f_s (Overload) is the sum of the stresses due to $M \rho + M_s \rho + 5/3 (M L + I)$

$M \rho$ - Moment due to dead loads on non-composite section.

$M_s \rho$ - Moment due to dead loads on composite section.

$M L$ - Moment due to live load on non-composite or composite section.

I - Live load impact.

M_u = Full plastic moment capacity for compact, braced section.

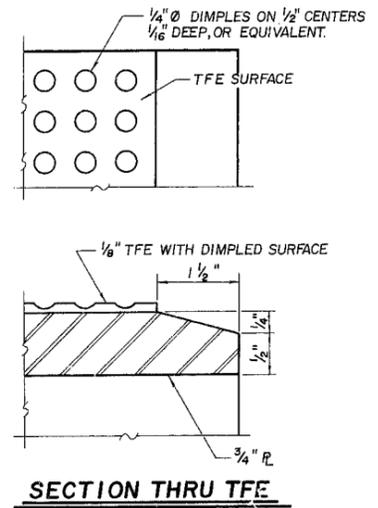
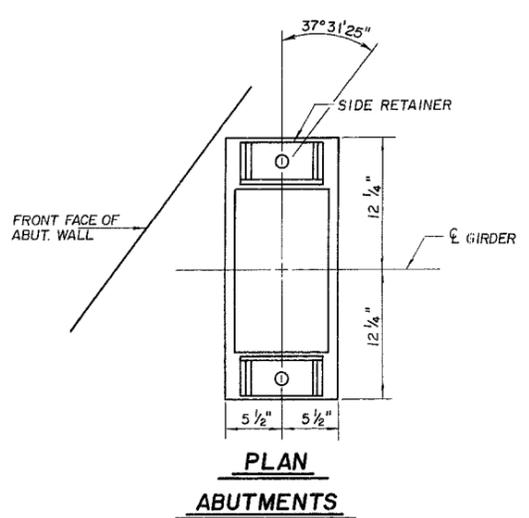
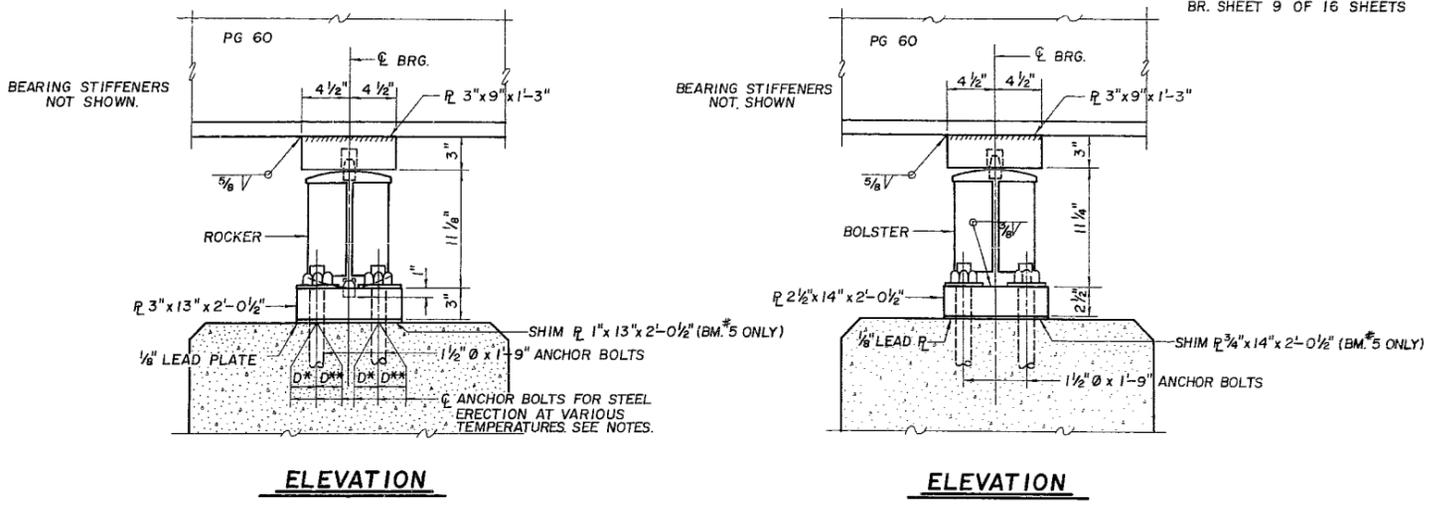
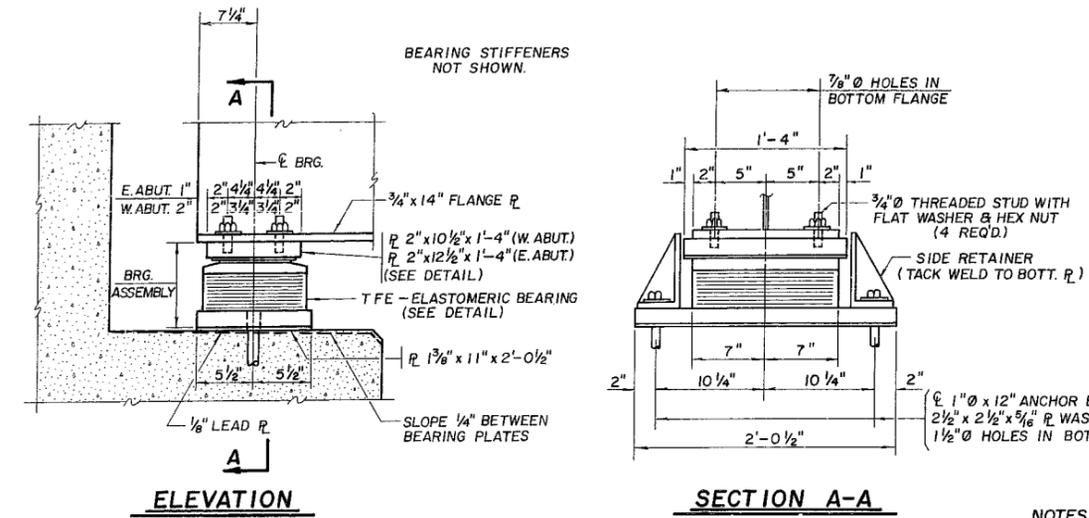
M_a (Applied Moment) = $1.3 [M \rho + M_s \rho + 5/3 (M L + I)]$

AS REVISED

STRUCTURAL STEEL DETAILS
F.A.P. RTE. 607
SECTION 124 BR
LASALLE COUNTY
STATION 113 + 70.00

PREPARED BY
Harold P. Wendler & Associates
DIXON, PRINCETON, & ROCKFORD, ILLINOIS

DO NOT SCALE DRAWING, FOLLOW DIMENSIONS



NOTES FOR SETTING OF ANCHOR BOLTS AT EXPANSION BEARINGS

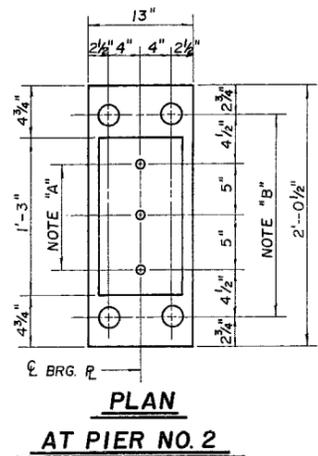
A) D* (SIDE OF BRG. AWAY FROM FIXED BRG.)
 $D^* = \frac{1}{16}''$ PER EACH 100' OF EXPANSION FOR EVERY 15° FALL BELOW THE NORMAL TEMP. OF 50° F.

D** (SIDE OF BRG. TOWARD FIXED BRG.)
 $D^{**} = \frac{1}{16}''$ PER EACH 100' OF EXPANSION FOR EVERY 15° RISE ABOVE THE NORMAL TEMP. OF 50° F.

B) AFTER GIRDERS HAVE BEEN ERECTED AND DIMENSIONS D* & D** DETERMINED, HOLES SHALL BE DRILLED AND ANCHOR BOLTS SHALL BE INSTALLED AS SHOWN ON BR. SHT. 14

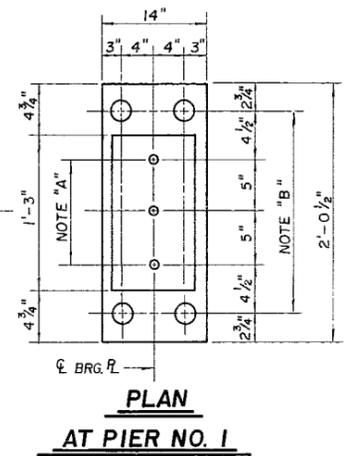
ALL FIXED ANCHOR BOLTS MAY BE BUILT INTO THE MASONRY.

NOTES: ALL STEEL FOR BEARING ASSEMBLIES TO BE AASHTO M-183 UNLESS OTHERWISE NOTED.

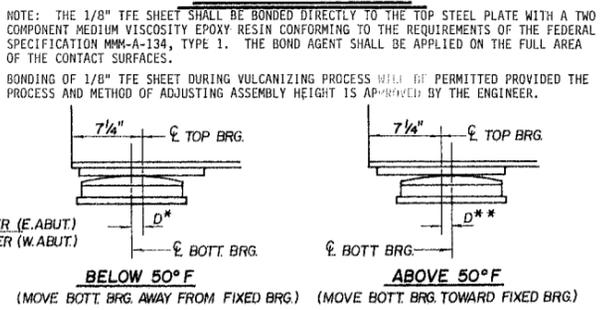
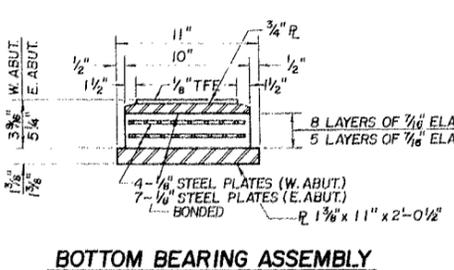
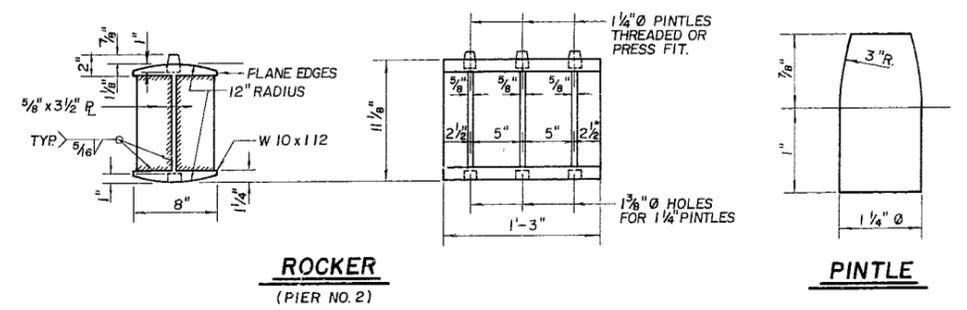
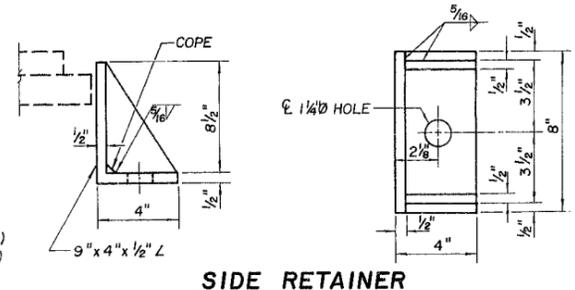
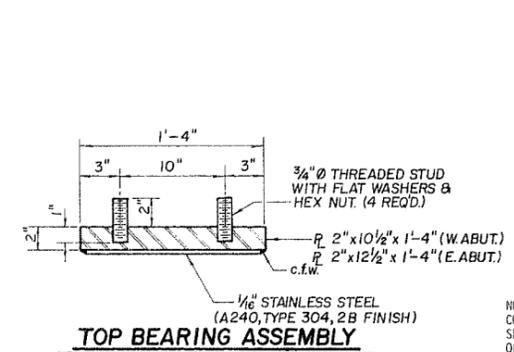


NOTE "A"
 $1\frac{3}{8}''$ HOLES 1" DEEP IN TOP PLATE FOR $1\frac{1}{4}''$ PINTLES. THREAD OR PRESS FIT PINTLES IN BOTTOM PLATE.

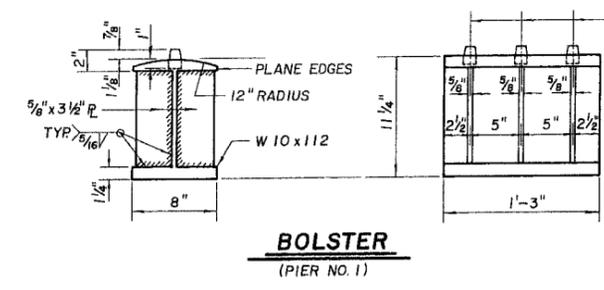
NOTE "B"
 $2''$ HOLES FOR $1\frac{1}{2}''$ x $1-9''$ ANCHOR BOLTS. $3''$ x $3''$ x $\frac{5}{16}''$ WASHERS UNDER NUT.



NOTE: FOR INTERIOR BEAM MOMENT TABLE AND INTERIOR GIRDER REACTION TABLE SEE BRIDGE SHEET NO. 8



SETTING ANCHOR BOLTS AT EXP. BRG.
 EQUIVALENT WELDED PLATES MAY BE USED IN LIEU OF ROLLED ANGLES WITH STIFFENERS FOR SIDE RETAINERS.

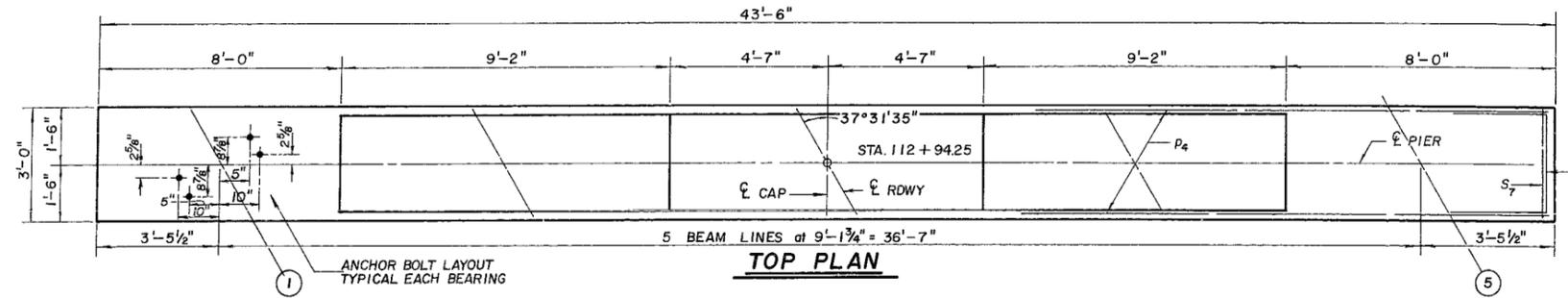


BILL OF MATERIAL

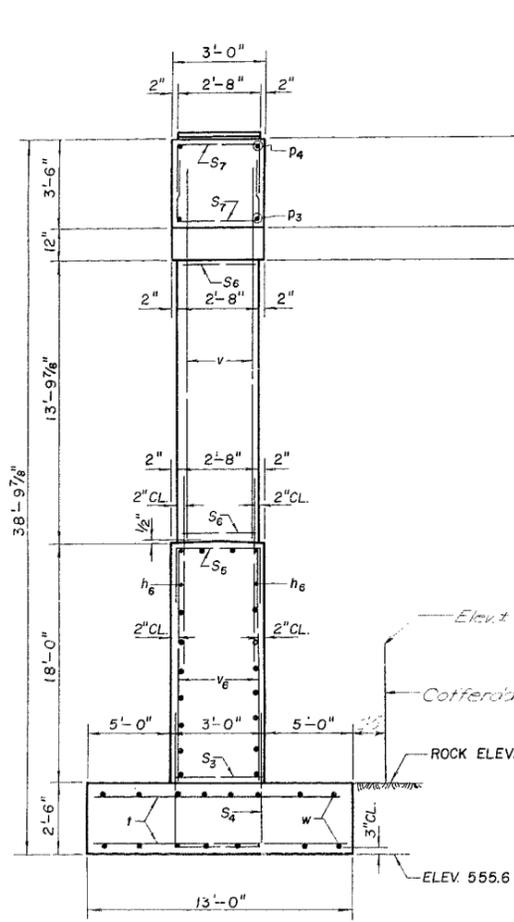
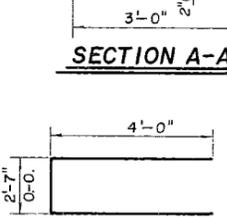
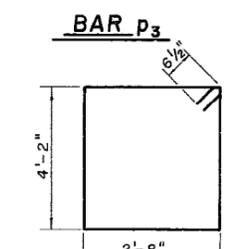
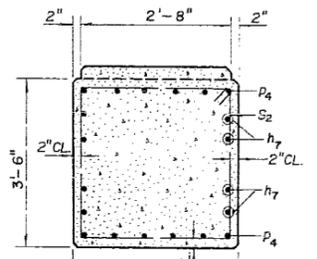
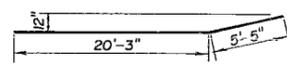
TYPE II ELASTOMERIC BRG.	EACH	10
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BEARING DETAILS
 F.A.P. RTE. 607
 SECTION 124 BR
 LASALLE COUNTY
 STATION 113+7000

PREPARED BY
 Harold P. Wendler & Associates
 DIXON, PRINCETON, & ROCKFORD, ILLINOIS

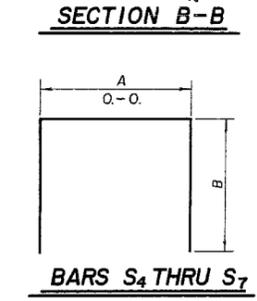
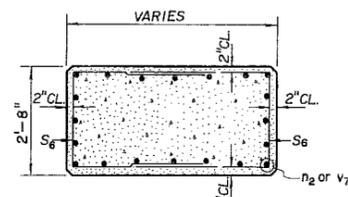
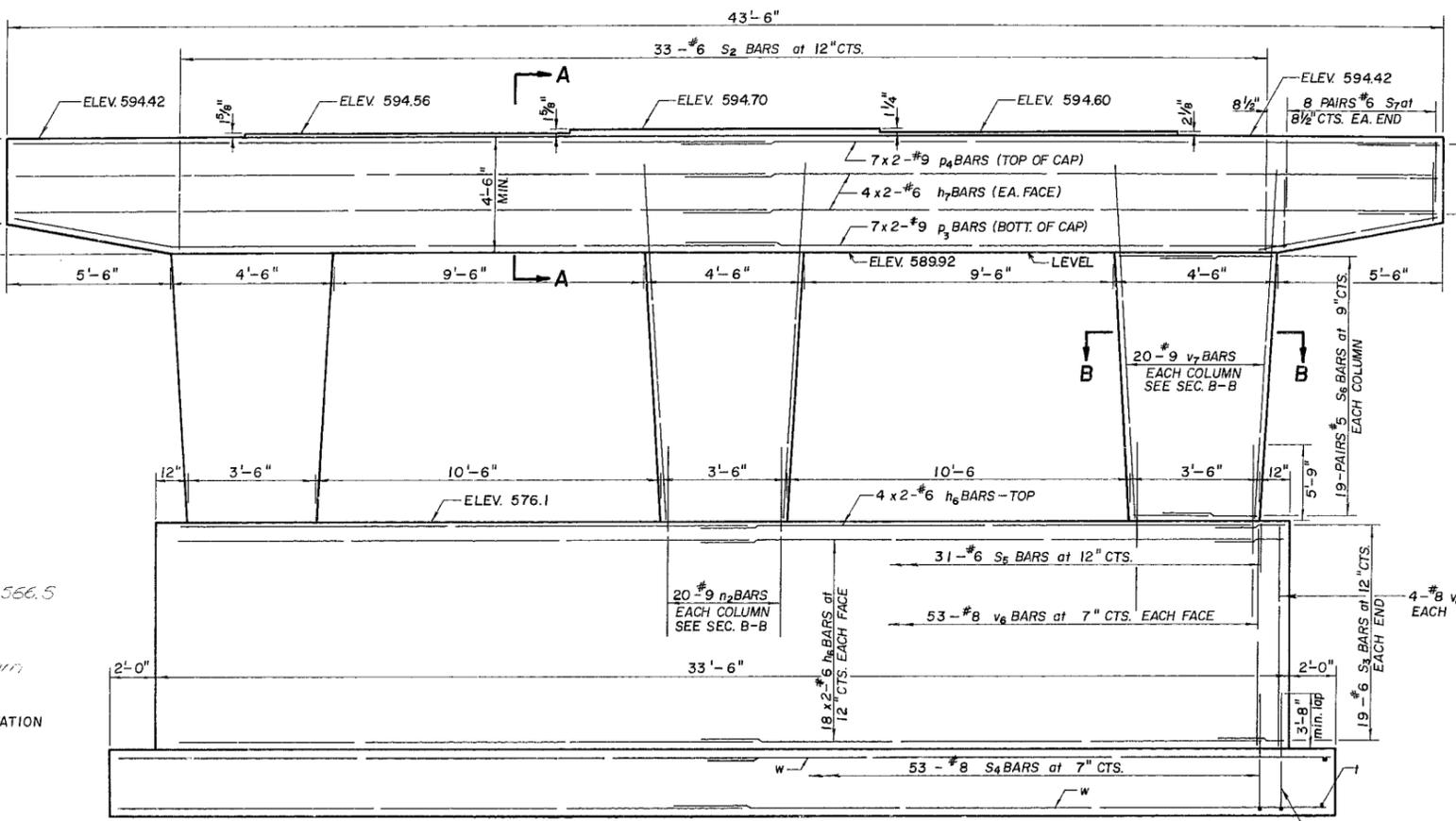


NOTES
 SPACE REINFORCEMENT IN CAP TO MISS ANCHOR BOLTS.
 POUR STEPS MONOLITHICALLY WITH CAP.
 ALL EDGES SHALL HAVE STANDARD 3/4" CHAMFERS EXCEPT AS NOTED.



NOTE: ENTIRE FOOTING SHALL BE POURED INTO BEDROCK AS SHOWN. TOP OF FOOTING SHALL BE AT ROCK ELEVATION.

MAX. BRG. PRESSURE = 56 TSF



A & B DIMENSIONS

BAR	A	B
S4	2'-8"	6'-0"
S5	2'-8"	2'-0"
S6	2'-4"	3'-2"
S7	2'-8"	3'-2"

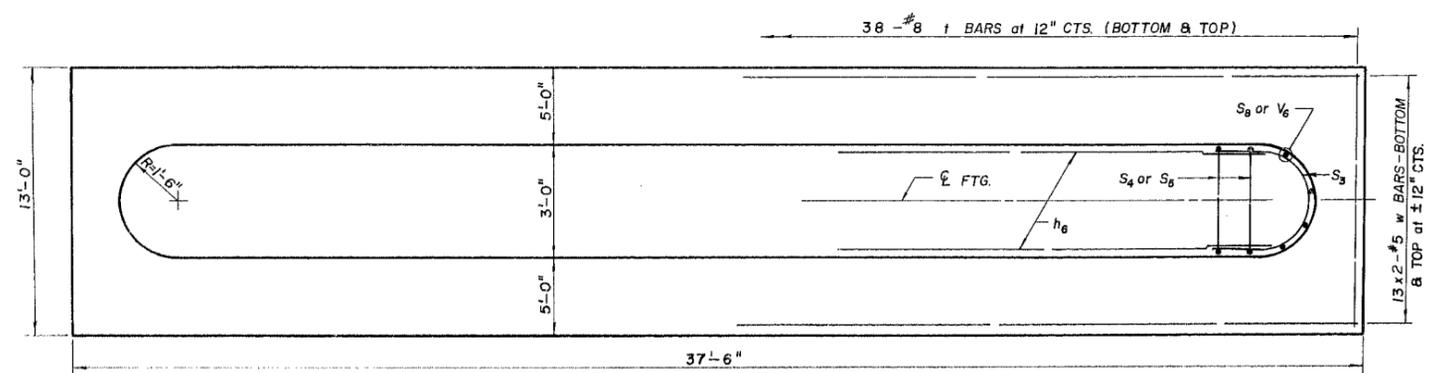
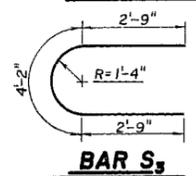
BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
h6	80	#6	16'-7"	
h7	16	#6	22'-10"	
n2	60	#9	11'-6"	
p3	14	#9	25'-8"	
p4	14	#9	25'-7"	
S2	33	#6	14'-9"	
S3	38	#6	9'-8"	
S4	53	#8	14'-8"	
S5	31	#6	6'-8"	
S6	114	#5	8'-8"	
S7	32	#6	9'-0"	
S8	8	#8	6'-0"	
t	76	#8	12'-6"	
u3	10	#6	10'-7"	
v6	114	#8	17'-10"	
v7	60	#9	18'-2"	
w	52	#5	19'-9"	

CLASS X CONCRETE CU.YDS. 150.3
 REINFORCEMENT BARS LBS. 25,490
 ROCK EXCAV. FOR STRUCY. CU.YDS. 50.0
 Cofferdam Excavation CU.YDS. 105
 Cofferdams Each 1

MIN. SPLICE

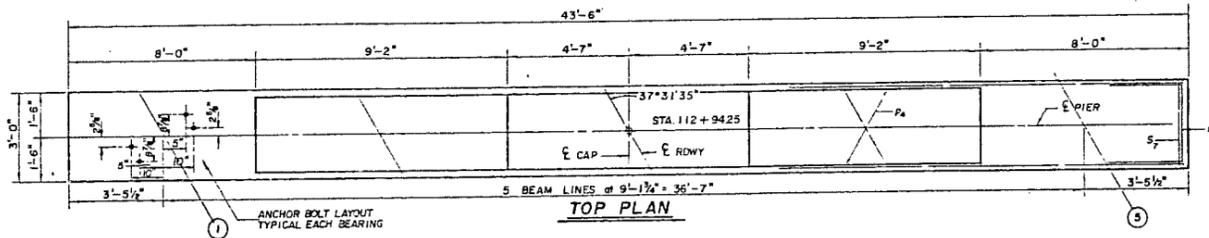
#5	2'-5"
#6	2'-7"
#7	2'-9"
#8	3'-8"
#9	8'-1"



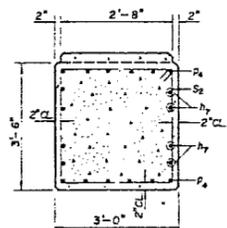
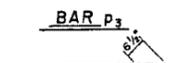
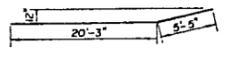
PREPARED BY
Harold P. Wendler & Associates
 DIXON, PRINCETON, & ROCKFORD, ILLINOIS

DO NOT SCALE DRAWING, FOLLOW DIMENSIONS

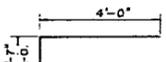
PIER NO. 1
 F.A.P. ROUTE 607
 SECTION 124 BR
 LASALLE COUNTY
 STATION 113 + 70.00



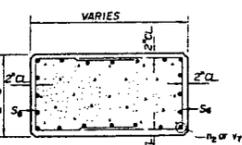
NOTES
SPACE REINFORCEMENT IN CAP TO MISS ANCHOR BOLTS.
POUR STEPS MONOLITHICALLY WITH CAP.
ALL EDGES SHALL HAVE STANDARD 3/4" CHAMFERS EXCEPT AS NOTED.



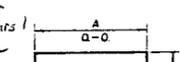
SECTION A-A



BAR U3



SECTION B-B



BARS S4 THRU S7

A & B DIMENSIONS

BAR	A	B
S4	2'-8"	6'-0"
S5	2'-8"	2'-0"
S6	2'-4"	3'-2"
S7	2'-8"	3'-2"

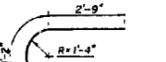
MIN. SPLICE

#5	2'-5"
#6	2'-7"
#7	2'-9"
#8	3'-8"
#9	8'-1"

BILL OF MATERIAL

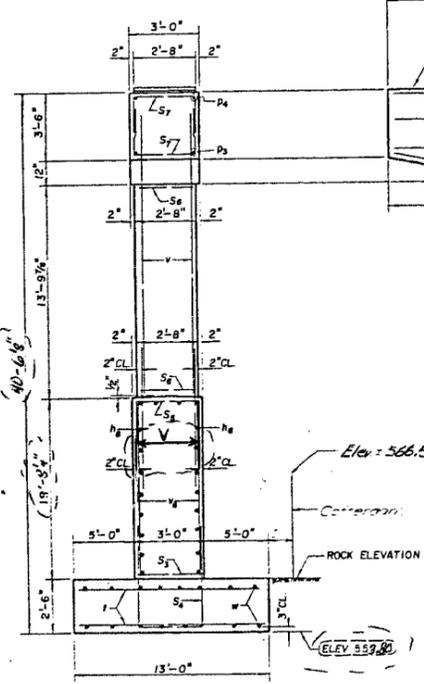
BAR	NO.	SIZE	LENGTH	SHAPE
h4	92	#6	16'-7"	
h7	16	#6	22'-0"	
h2	60	#9	11'-6"	
p4	14	#9	25'-8"	
p6	14	#9	25'-7"	
s2	33	#6	14'-9"	
s3	44	#6	9'-8"	
s4	33	#8	14'-8"	
s5	31	#6	6'-8"	
s6	114	#5	8'-8"	
s7	32	#6	9'-0"	
s8	8	#8	6'-0"	
u	76	#8	12'-6"	
u4	10	#6	10'-7"	
v	114	#8	17'-10"	
v4	60	#9	18'-2"	
w	52	#5	19'-9"	

CLASS X CONCRETE	CUYDS	150.3
REINFORCEMENT BARS	LBS	25,490
ROCK EXCAV FOR STAIR	CUYDS	500
CONCRETE EXCAVATION	CUYDS	105



BAR S3

PIER NO. 1
FAP ROUTE 607
SECTION 124 BR
LASALLE COUNTY
STATION 113 + 7000



END VIEW

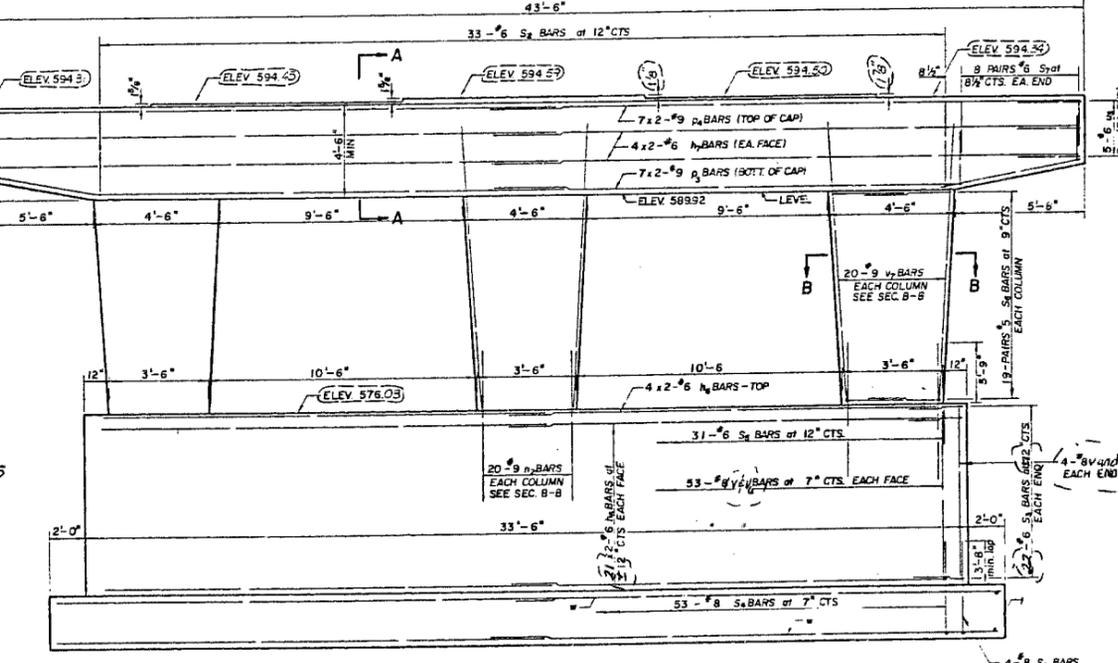
NOTE: ENTIRE FOOTING SHALL BE POURED INTO BEDROCK AS SHOWN. TOP OF FOOTING SHALL BE AT ROCK ELEVATION.

MAX. BRG. PRESSURE = 56 TSF

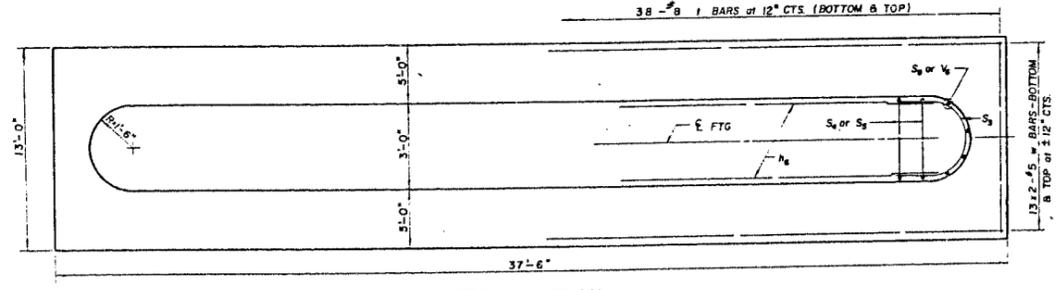
AS REVISED

PREPARED BY
Harold P. Wendler & Associates
DIXON, PRINCETON, & ROCKFORD, ILLINOIS

As Revised 11-15-87 L.W. As Revised 4-20-88 L.W.



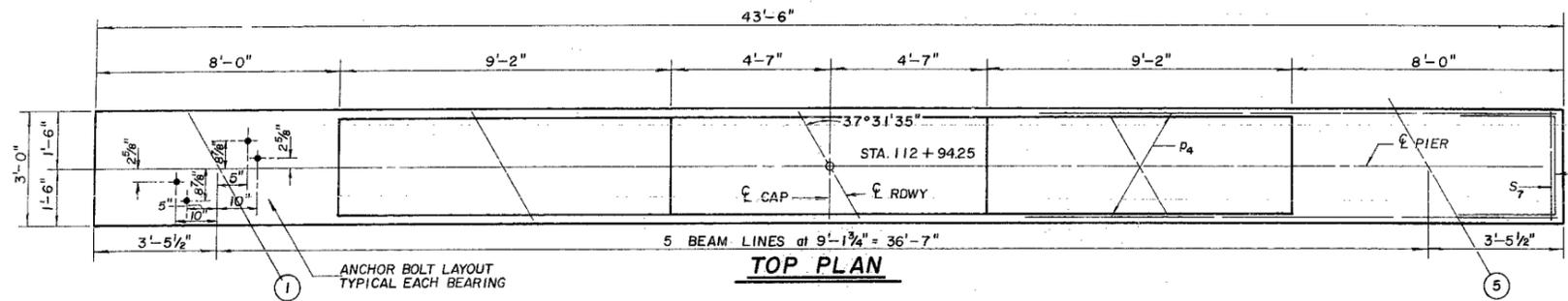
PIER ELEVATION
(LOOKING EAST)



FOOTING PLAN

DO NOT SCALE DRAWING, FOLLOW DIMENSIONS



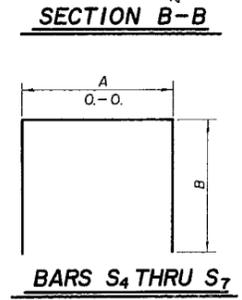
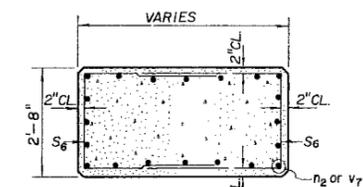
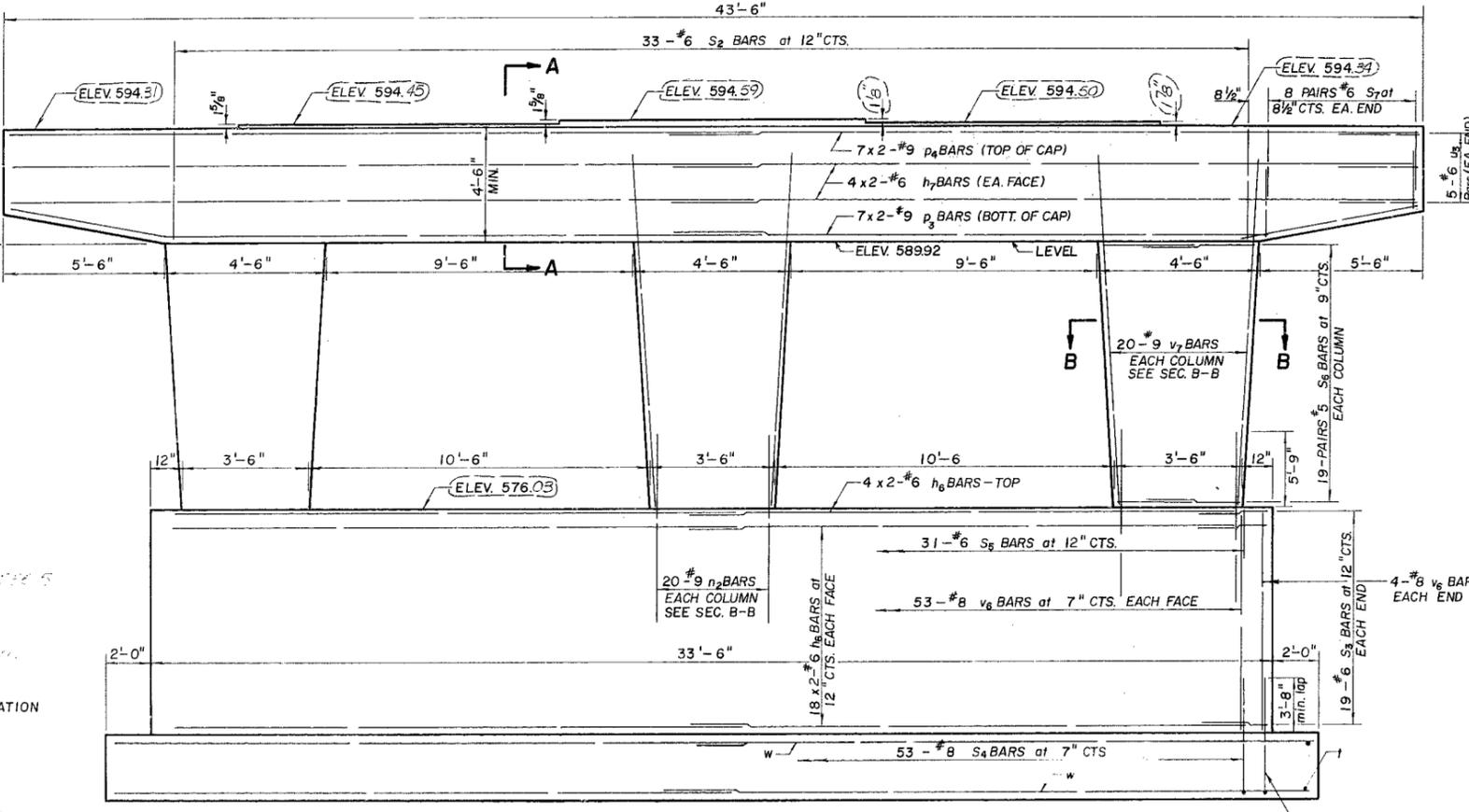
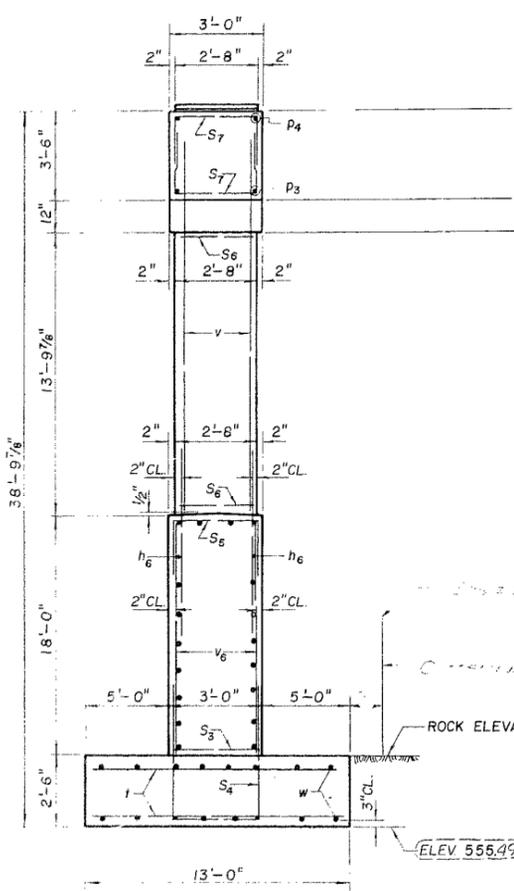
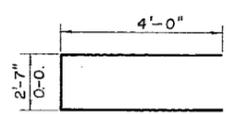
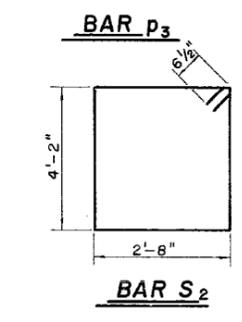
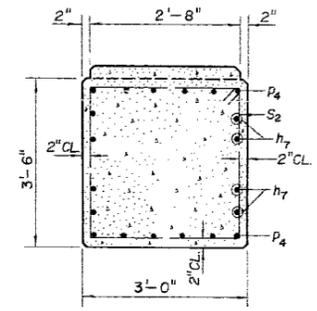
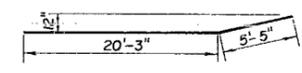


NOTES

SPACE REINFORCEMENT IN CAP TO MISS ANCHOR BOLTS.

POUR STEPS MONOLITHICALLY WITH CAP.

ALL EDGES SHALL HAVE STANDARD 3/4" CHAMFERS EXCEPT AS NOTED.



A & B DIMENSIONS

BAR	A	B
S4	2'-8"	6'-0"
S5	2'-8"	2'-0"
S6	2'-4"	3'-2"
S7	2'-8"	3'-2"

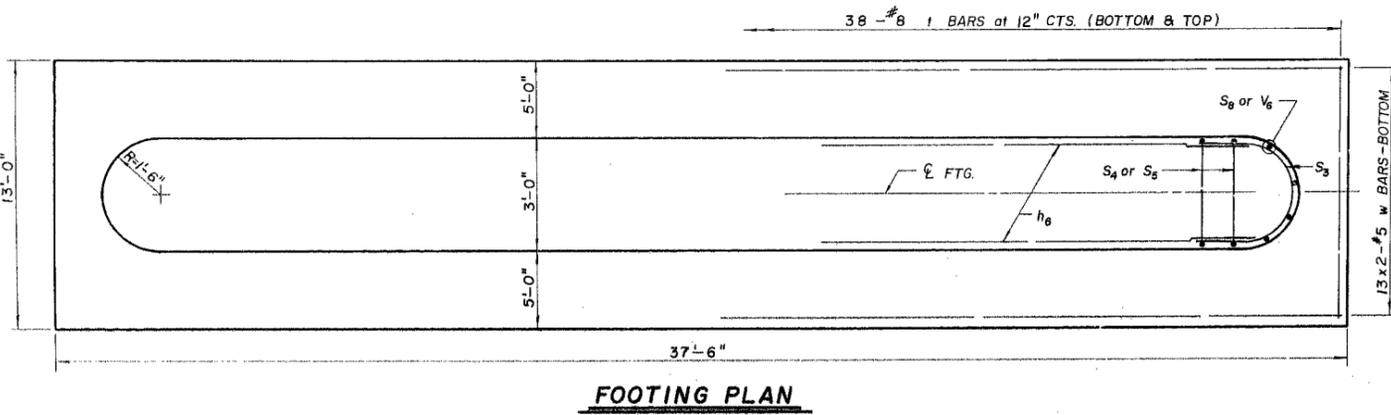
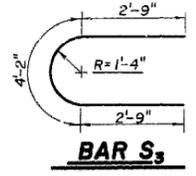
BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
h6	80	#6	16'-7"	
h7	16	#6	22'-10"	
n2	60	#9	11'-6"	
p3	14	#9	25'-8"	
p4	14	#9	25'-7"	
S2	33	#6	14'-9"	
S3	38	#6	9'-8"	
S4	53	#8	14'-8"	
S5	31	#6	6'-8"	
S6	114	#5	8'-8"	
S7	32	#6	9'-0"	
S8	8	#8	6'-0"	
t	76	#8	12'-6"	
u3	10	#6	10'-7"	
v6	114	#8	17'-10"	
v7	60	#9	18'-2"	
w	52	#5	19'-9"	

CLASS X CONCRETE	CU.YDS.	150.3
REINFORCEMENT BARS	LBS.	25,490
ROCK EXCAV. FOR STRUCT.	CU.YDS.	500
CONCRETE EXCAVATION	CU.YDS.	105

MIN. SPLICE

#5	2'-5"
#6	2'-7"
#7	2'-9"
#8	3'-8"
#9	8'-1"



NOTE: ENTIRE FOOTING SHALL BE POURED INTO BEDROCK AS SHOWN. TOP OF FOOTING SHALL BE AT ROCK ELEVATION.

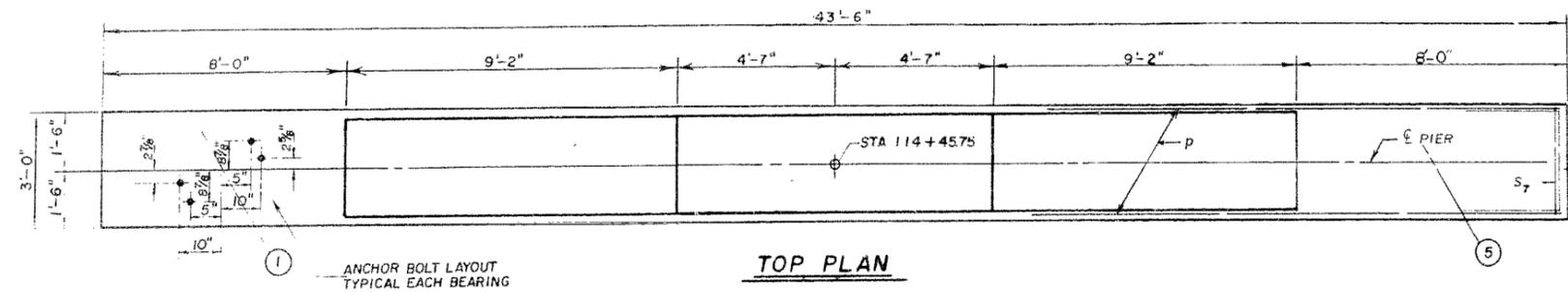
MAX. BRG. PRESSURE = 56 TSF

AS REVISED

PREPARED BY
Harold P. Wendler & Associates
DIXON, PRINCETON, & ROCKFORD, ILLINOIS

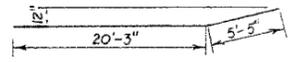
DO NOT SCALE DRAWING, FOLLOW DIMENSIONS

PIER NO. 1
F.A.P. ROUTE 607
SECTION 124 BR
LASALLE COUNTY
STATION 113 + 7000

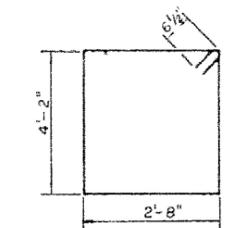


TOP PLAN

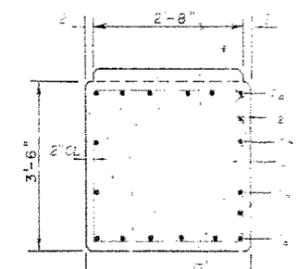
NOTES
 SPACE REINFORCEMENT IN CAP TO MISS ANCHOR BOLTS
 POUR STEPS MONOLITHICALLY WITH CAP
 ALL EDGES SHALL HAVE STANDARD 1/4" CHAMFERS EXCEPT AS NOTED.



BAR P₃



BAR S₂



SECTION A-A

4'-0"

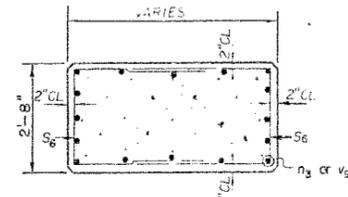
2'-7" 0-0

BAR U₃

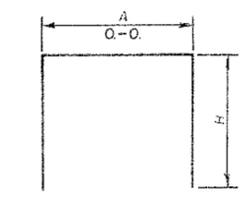
BILL OF MATERIAL

BAR	NO.	SIZE	FT.
P ₃	48	#7	64.0
S ₂	14	#9	35.0
S ₃	14	#9	35.0
S ₄	33	#6	14.0
S ₅	34	#6	14.0
S ₆	34	#8	14.0
S ₇	31	#6	14.0
S ₈	108	#6	81.0
S ₉	32	#6	14.0
S ₁₀	8	#6	6.0
S ₁₁	38	#8	9.0
U ₃	10	#6	14.0
V ₈	68	#6	16.0
V ₉	48	#7	18.0
W	20	#6	19.0

CLASS. X CONCRETE: 115
 REINFORCEMENT BARS: 16.3
 ROCK EXCAV. FOR STRUCT. CUNTS: 40.4
 Cofferdam EXCAVATION CUNTS: 0.2
 Cofferdams Each: 1



SECTION B-B



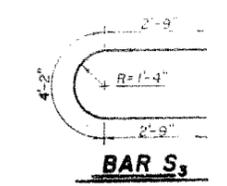
BARS S₄ THRU S₇

A & B DIMENSIONS

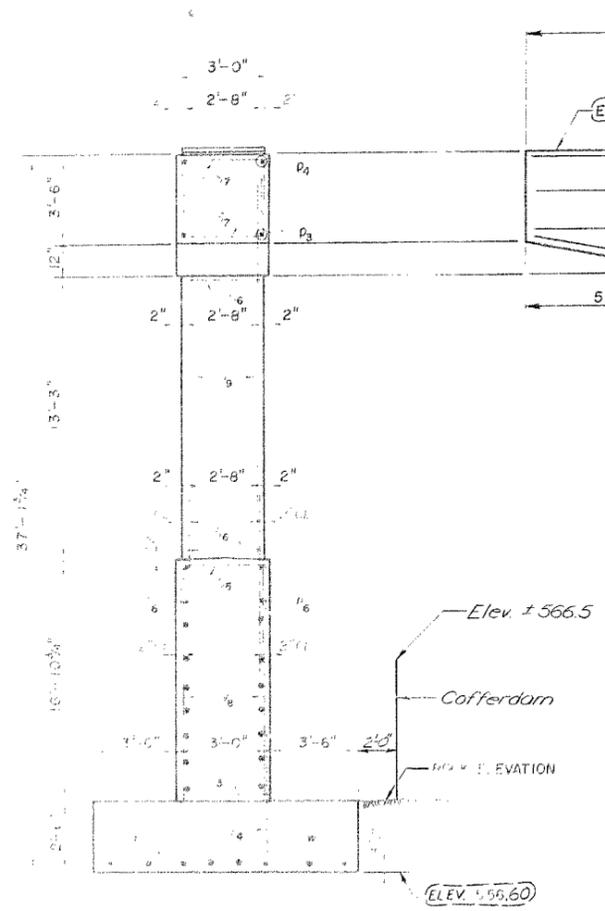
BAR	A	B
S ₄	2'-8"	6'-0"
S ₅	2'-8"	2'-0"
S ₆	2'-4"	3'-1"
S ₇	2'-8"	2'-2"

MIN. SPLICE

#5	2'-5"
#6	2'-7"
#7	2'-9"
#8	3'-8"
#9	8'-1"



BAR S₃

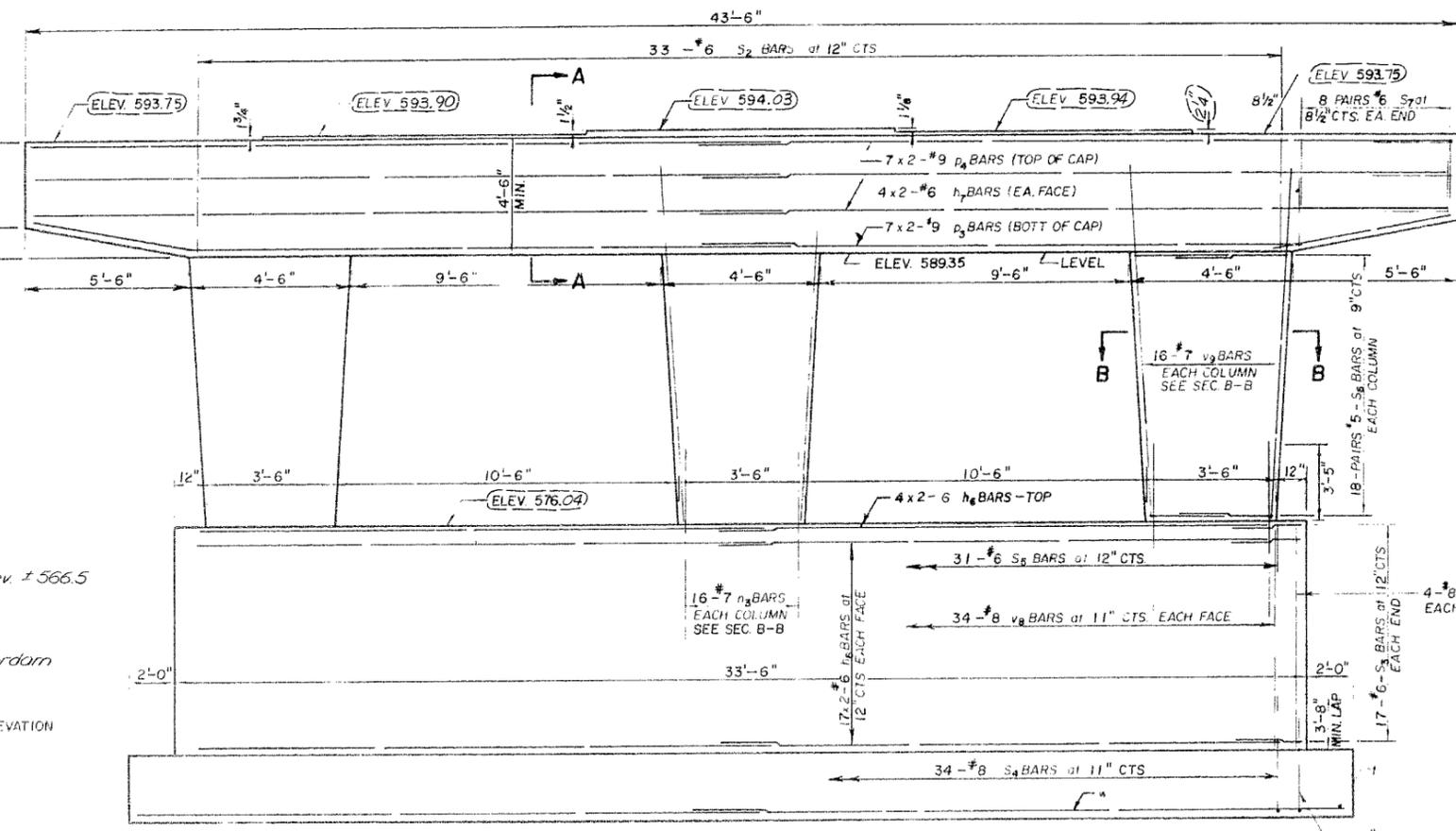


END VIEW

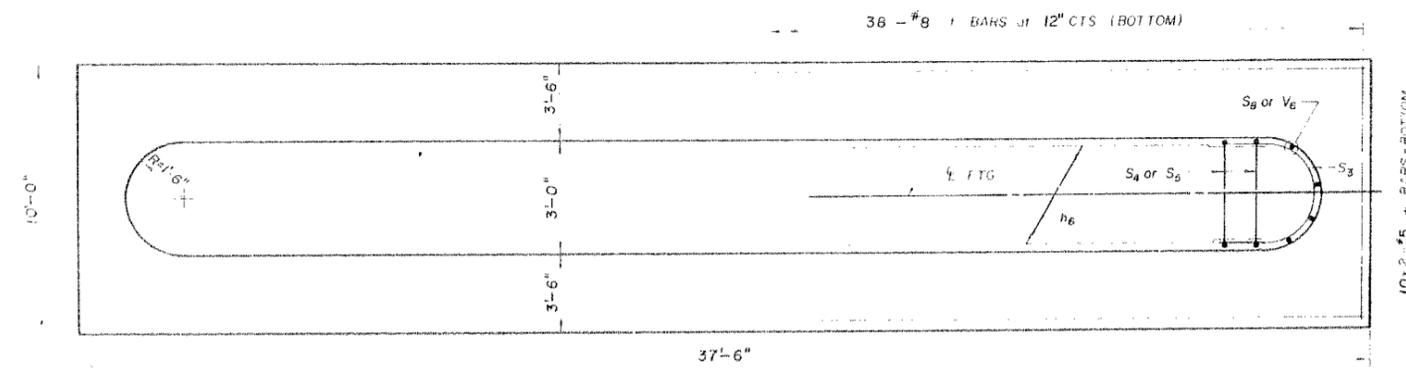
NOTE: ENTIRE FOOTING SHALL BE FIGURED INTO BEDROCK AS SHOWN. TOP OF FOOTING SHALL BE AT ROCK ELEVATION.

MAX. BRO. PRESSURE: 4.5 TSI

AS REVISED



PIER ELEVATION (LOOKING EAST)

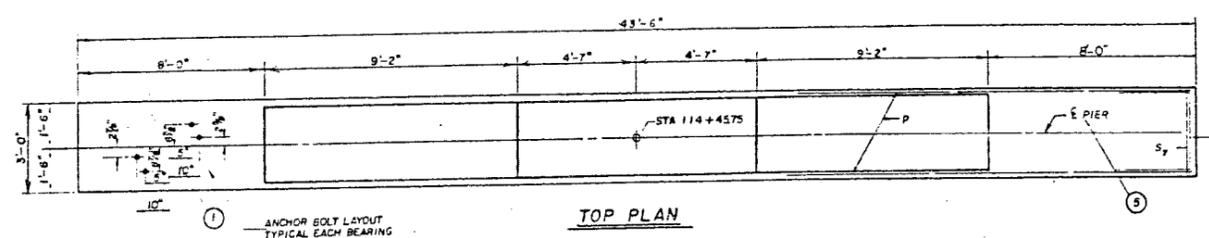


FOOTING PLAN

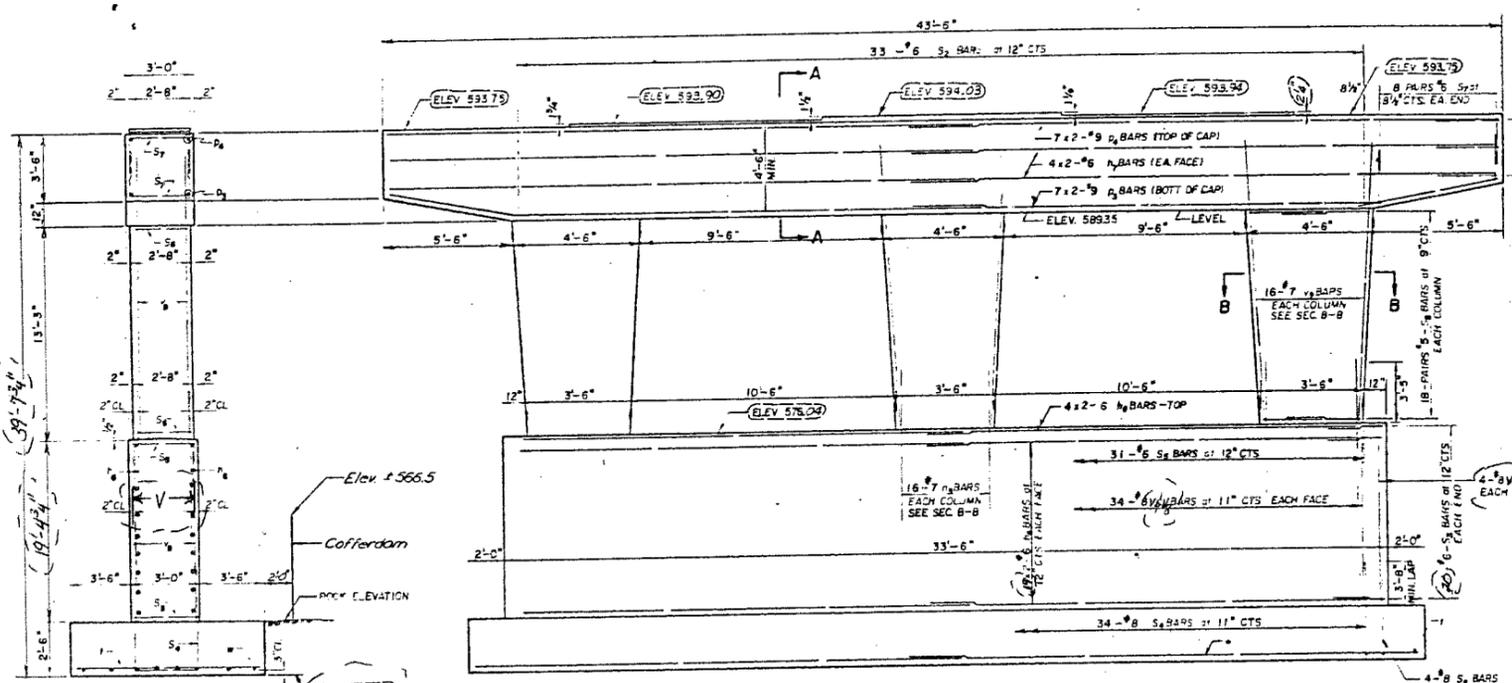
DO NOT SCALE DRAWING, FOLLOW DIMENSIONS

PREPARED BY
 Harold P. Wendler & Associates
 DEER, PORTERTON, ROCKFORD, ILLINOIS

PIER NO. 2
 FAP ROUTE 607
 SECTION 124 BR
 LASALLE COUNTY
 STATION 113+70.00



TOP PLAN



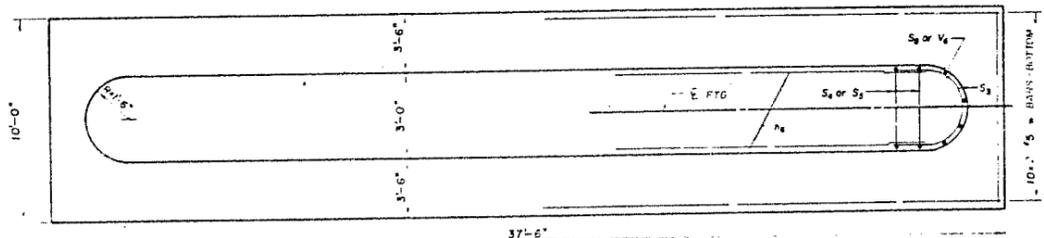
PIER ELEVATION
(LOOKING EAST)

END VIEW

NOTE: ENTIRE FOOTING SHALL BE
POURED INTO BEDROCK AS
SHOWN TOP OF FOOTING SHALL
BE AT ROCK ELEVATION.

MAX BRG. PRESSURE +45 TSF

AS REVISED

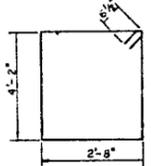


FOOTING PLAN

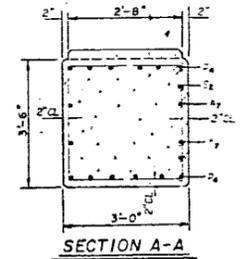
NOTES

SPACE REINFORCEMENT IN CAP TO MISS
ANCHOR BOLTS
POUR STEPS MONOLITHICALLY WITH
CAP
ALL CORNERS SHALL HAVE STANDARD 1"
CHAMFERS EXCEPT AS NOTED.

BAR D₃



BAR S₂

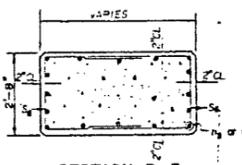


SECTION A-A

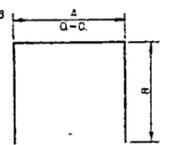
BAR U₃



SECTION B-B



BARS S₄ THRU S₇



A & B DIMENSIONS

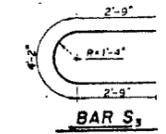
BAR	A	B
S		
S ₄	2'-8"	6'-0"
S ₅	2'-8"	2'-0"
S ₆	2'-4"	3'-2"
S ₇	2'-8"	3'-2"

MIN. SPLICE

#5	2'-5"
#6	2'-7"
#7	2'-9"
#8	3'-8"
#9	8'-1"

BILL OF MATERIAL

BAR	NO.	SIZE	LEN.	QTY
D ₃	84	#6	16'-1"	
U ₃	16	#6	22'-0"	
S ₂	48	#7	6'-0"	
S ₄	14	#9	25'-8"	
S ₅	14	#9	25'-7"	
S ₆	33	#6	14'-9"	
S ₇	40	#6	9'-8"	
S ₈	34	#8	14'-8"	
S ₉	31	#6	6'-8"	
S ₁₀	108	#5	8'-8"	
S ₁₁	32	#6	9'-0"	
S ₁₂	8	#8	6'-0"	
S ₁₃	38	#8	9'-6"	
S ₁₄	10	#5	10'-7"	
S ₁₅	76	#8	10'-3"	
S ₁₆	176	#8	16'-9"	
S ₁₇	48	#7	18'-9"	
S ₁₈	20	#5	19'-9"	
CLASS X CONCRETE CUTS 135.1				
REINFORCEMENT BARS LESS 16,370				
ROCK EXCAV. FOR STRUCT. CUTS 40.4				
Cofferdam EXCAVATION CUTS 23				
Cofferdams Each 1				



BAR S₃

PIER NO. 2
FAP ROUTE 607
SECTION 124 BR
LASALLE COUNTY
STATION 113+7000

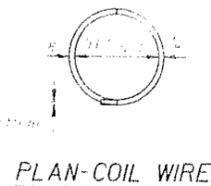
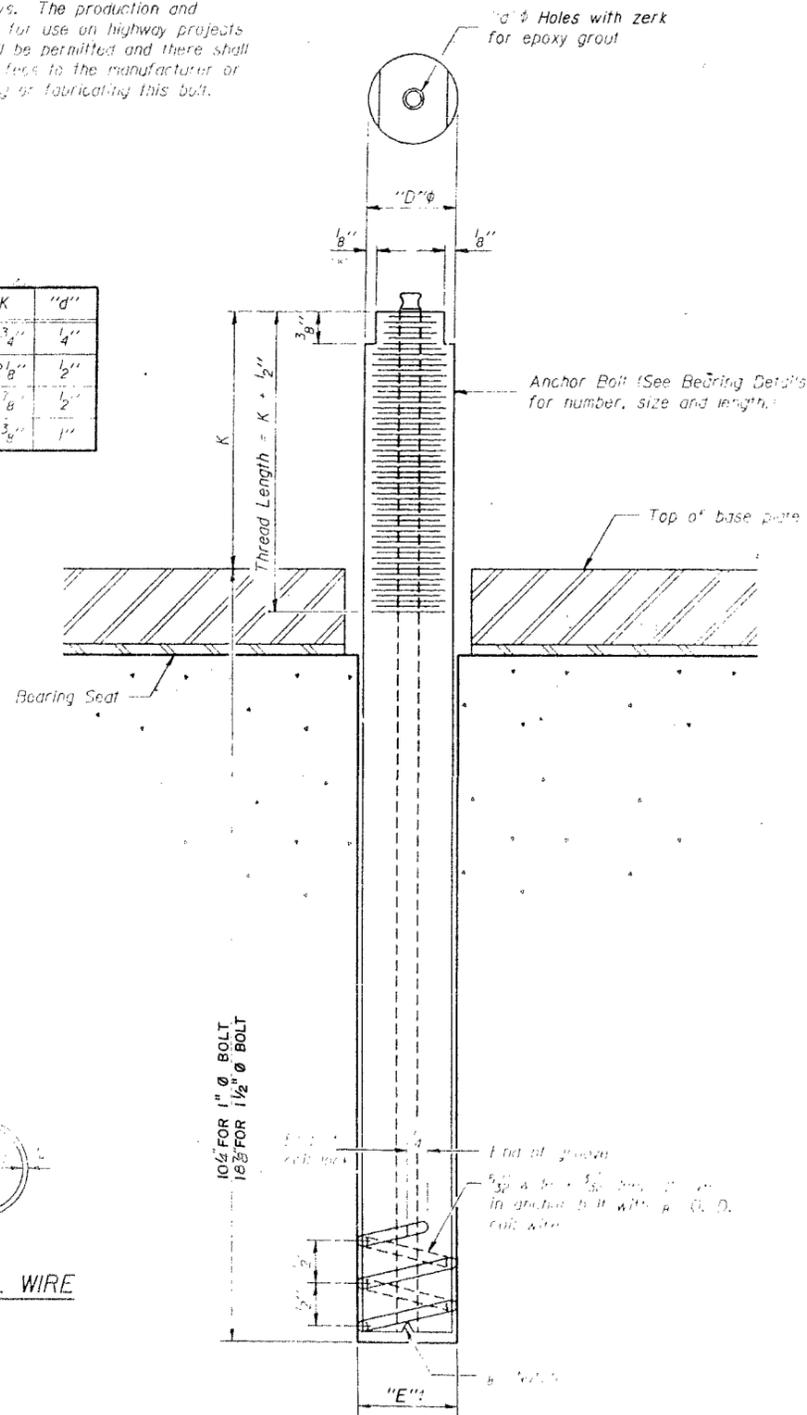
PREPARED BY
Harold P. Wendler & Associates
DIXON, PRINCETON, ROCKFORD, ILLINOIS

As Revised 11-16-97 L.W. AS REVISED 4-20-88 L.W.

DO NOT SCALE DRAWING. FOLLOW DIMENSIONS

The Illinois Coil-Lock Anchor Bolt is a proprietary item which is the property of the Illinois Department of Transportation. Use, reproduction or disclosure without express written permission is prohibited and protected under Federal copyright laws. The production and the fabrication of this bolt for use on highway projects in the State of Illinois shall be permitted and there shall be no charge or fee to the manufacturer or contractor for producing or fabricating this bolt.

D	E	H	K	"d"
1"	1 1/8"	1 3/8"	1 3/4"	1/4"
1 1/2"	1 5/8"	1 7/8"	2 1/8"	1/2"
2"	2 1/8"	2 1/4"	2 7/8"	3/4"
2 1/2"	2 5/8"	2 7/8"	3 3/4"	1"



ILLINOIS COIL-LOCK ANCHOR BOLT

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 C881, Type I, Grade I and of a Class suitable for the temperature at installation.

INSTALLATION PROCEDURE for the ILLINOIS COIL-LOCK ANCHOR BOLT

1. 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.
2. 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 wiped off.

ALTERNATE ANCHOR BOLTS

The Contractor may use, at his option, the capsule or the adhesive cartridge 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 and procedures. The capsule or the adhesive cartridge type anchor rods shall be a two part system composed of:

1. A threaded rod stud with nut and washer conforming to ASTM A307.
2. A sealed glass capsule or a sealed glass adhesive cartridge containing premeasured amounts of the adhesive chemical.

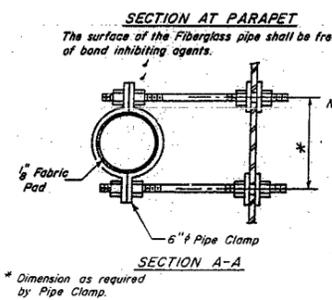
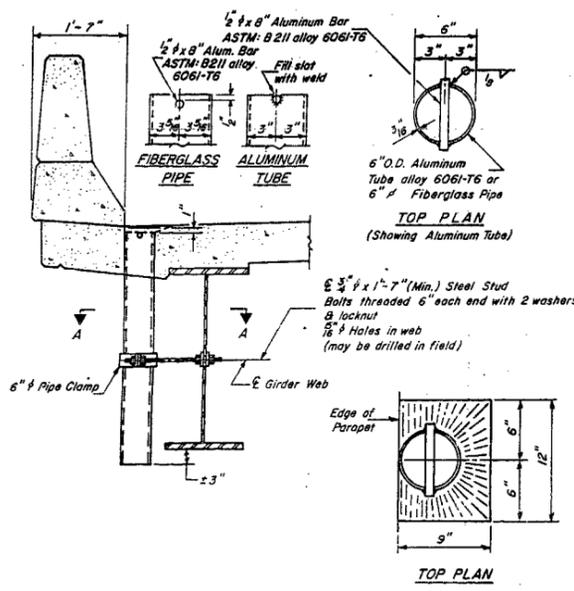
GENERAL NOTES

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, 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 and Erecting Structural Steel". Anchor bolts, nuts and washers shall be completely coated by either the hot-dipped process conforming with AASHTO M232 or the mechanical plating method conforming to ASTM B695, Class 50. Zinc coated nuts shall be tapped oversize in accordance with the requirements of AASHTO M291 and shall meet the supplementary requirements SI.1 thru SI.2.1 of the same specifications for lubricant and testing.

ANCHOR BOLT DETAILS FOR BEARINGS

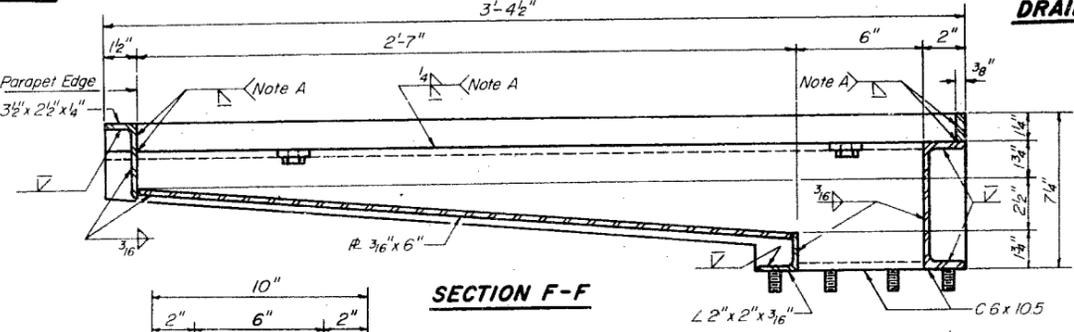
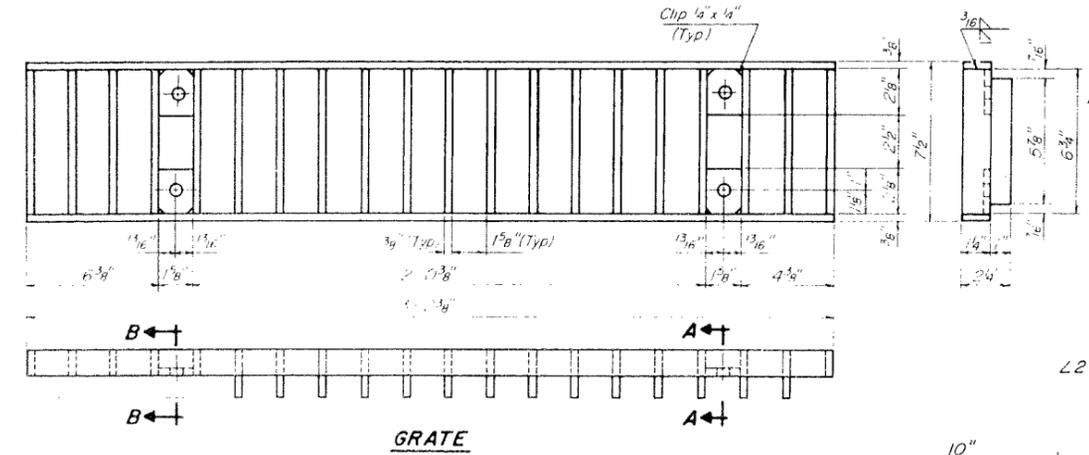
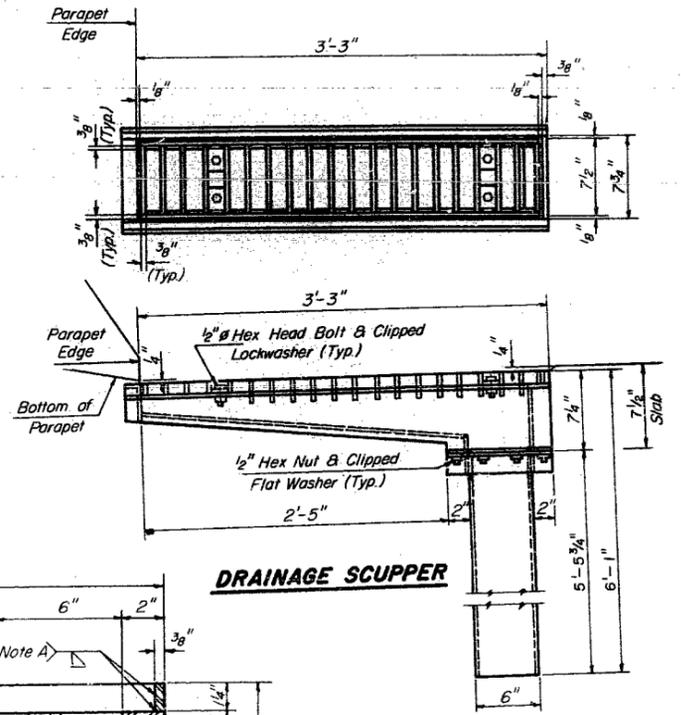
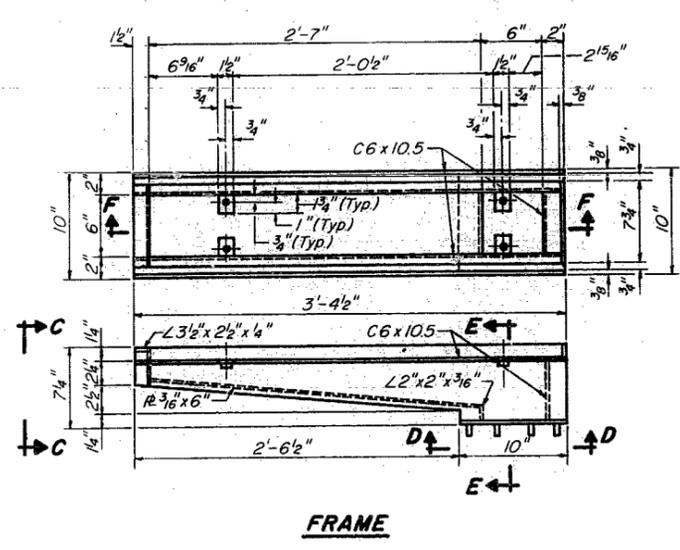
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6" DIAMETER FLOOR DRAINS

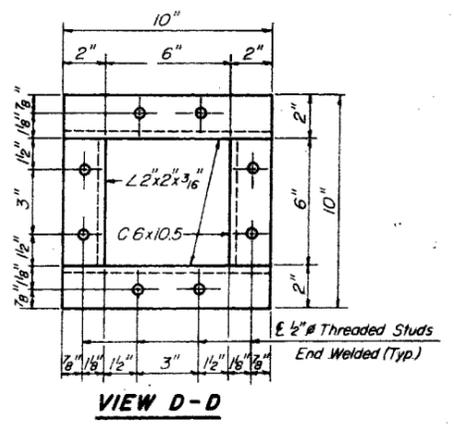
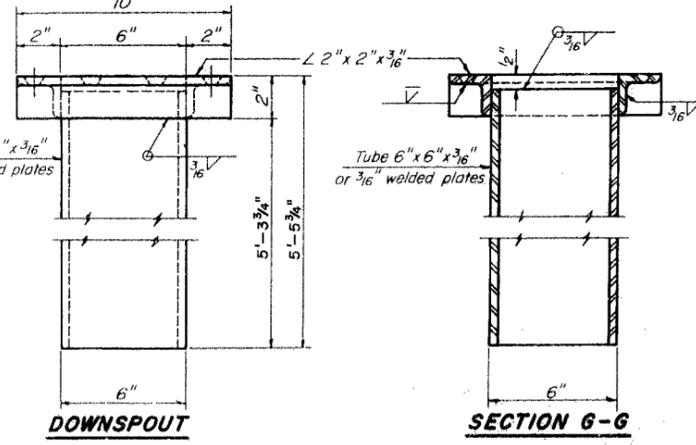
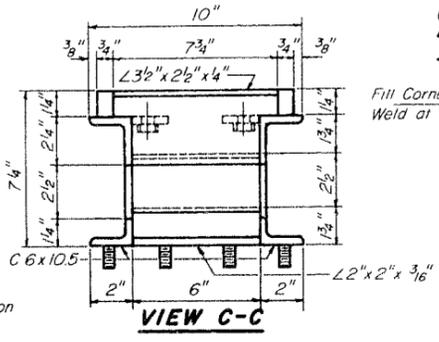
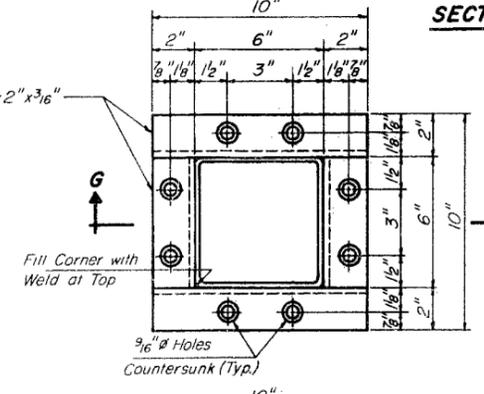


NOTE: Fiberglass pipe shall conform to ASTM: D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.

The exterior surfaces of the Floor Drain shall be painted with the vinyl enamel coat painting specified for Structural Steel. The exterior surfaces of the Aluminum tube shall be cleaned and given a washcoat treatment in accordance with Steel Structures Painting Council's Spec. SSPC-SP1 & SSPC-Paint 27 prior to painting.



Note A: Surface of welds shall be recessed 1/16" Max. or placed flush with inside face of bars to provide clearance for Grate.



Notes:

Hollow structural steel tubing shall conform to the requirements of A.S.T.M. designation A-500 Grade B, or A-501 Structural Steel Tubing.

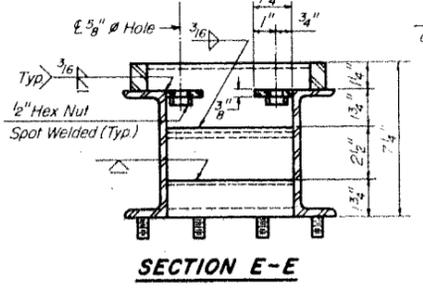
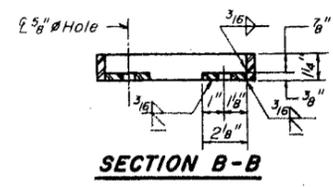
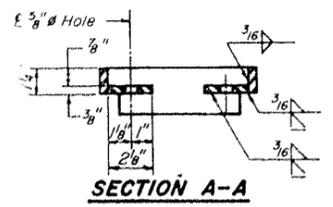
All other shapes, plates and bars shall conform to the requirements of A.A.S.H.T.O. M 183.

Bolts, studs, washers and nuts shall conform to the requirements of A.S.T.M. A-307.

The Grate, Frame, and Downspout shall be galvanized after shop fabrication in accordance with A.A.S.H.T.O. M-111 & A.S.T.M. A-385.

All bolts, washers and nuts shall be galvanized in accordance with A.A.S.H.T.O. M 232.

Cost of the Grate, Frame, Downspout, Bolts, Washers and Nuts including complete installation of Scupper shall be paid for at the unit bid price for "DRAINAGE SCUPPERS"

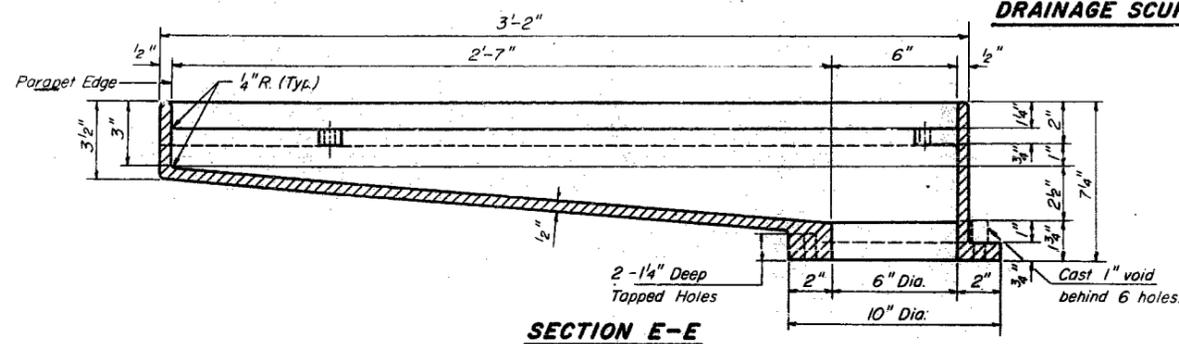
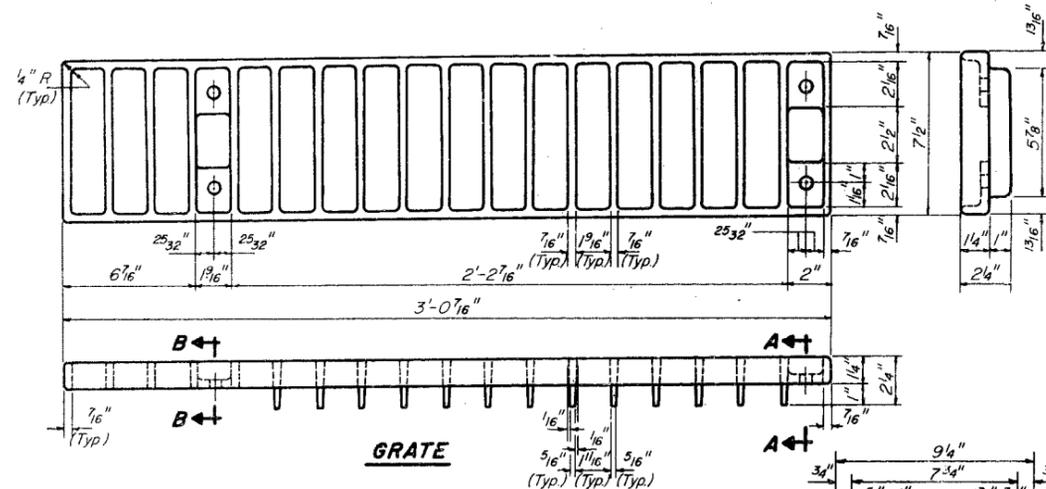
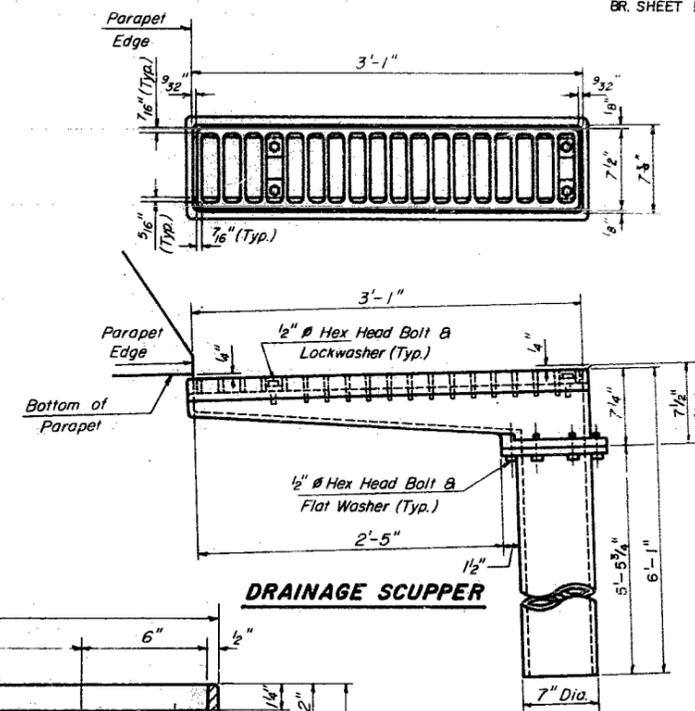
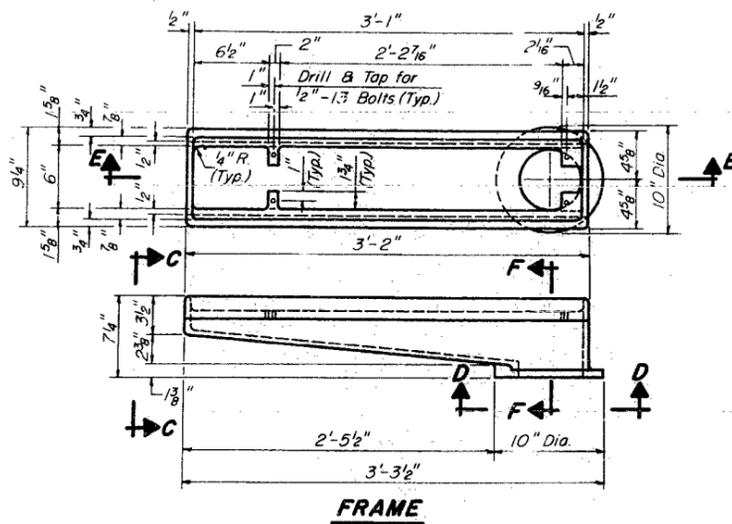
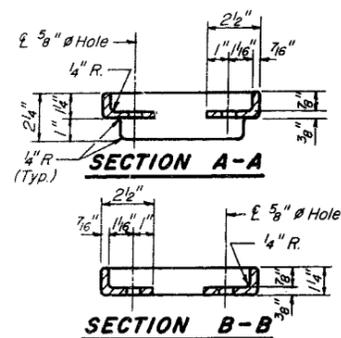


BILL OF MATERIAL

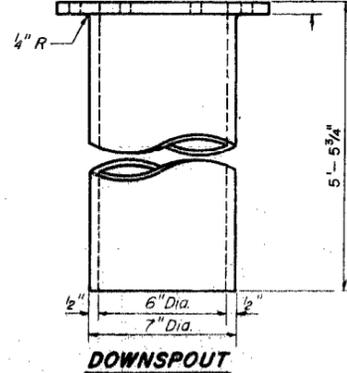
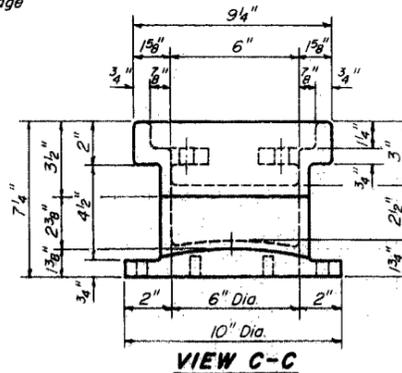
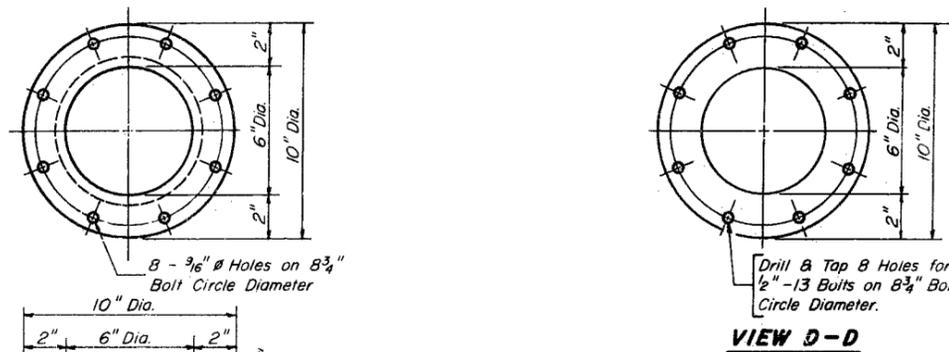
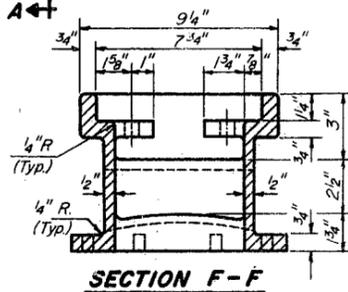
ITEM	UNIT	QUANTITY
Drainage Scupper	Each	6

6" DIAMETER FLOOR DRAINS & STEEL DRAINAGE SCUPPER

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LASALLE COUNTY
STATION 113+7000



Notes:
 All cast iron parts shall be gray iron conforming to the requirements of AASHTO M-105, Class 30.
 Bolts and washers shall conform to the requirements of A.S.T.M. A-307.
 All bolts and washers shall be galvanized in accordance with A.A.S.H.T.O. M-232.
 As an alternate bolts and washers may be stainless steel conforming to the requirements of A.S.T.M. A-193, Type 304.
 Cost of the Grate, Frame, Downspout, bolts and washers including complete installation of Scupper shall be paid for at the unit bid price for "DRAINAGE SCUPPERS".
 The Contractor may use at his option steel drainage scuppers or cast iron drainage scuppers.



(Sheet 2 of 2)
**ALTERNATE - CAST IRON
 DRAINAGE SCUPPER**
 F.A.P. ROUTE 607
 SECTION 124 BR
 LASALLE COUNTY
 STATION 113 +70.00

