

**DESIGN DESIGNATION**

**FUNCTIONAL CLASSIFICATION: RURAL MINOR ARTERIAL**  
**2032 ADT (SEFTON ROAD): 619**  
**FUTURE MACON COUNTY BELTWAY 2031 ADT = 7695**  
**DESIGN SPEED: 55 MPH**  
**VARIANCES GRANTED: NONE**  
**COMMITMENTS: NONE**

**INDEX OF SHEETS**

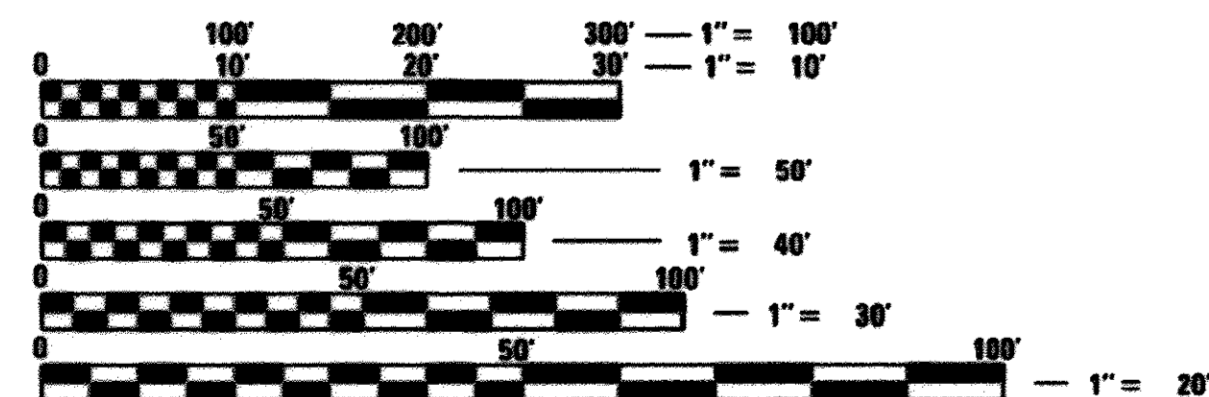
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**LIST OF STANDARDS**

SEE SHEET NO. 2

**UTILITY COMPANIES**

SEE SHEET NO. 2



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

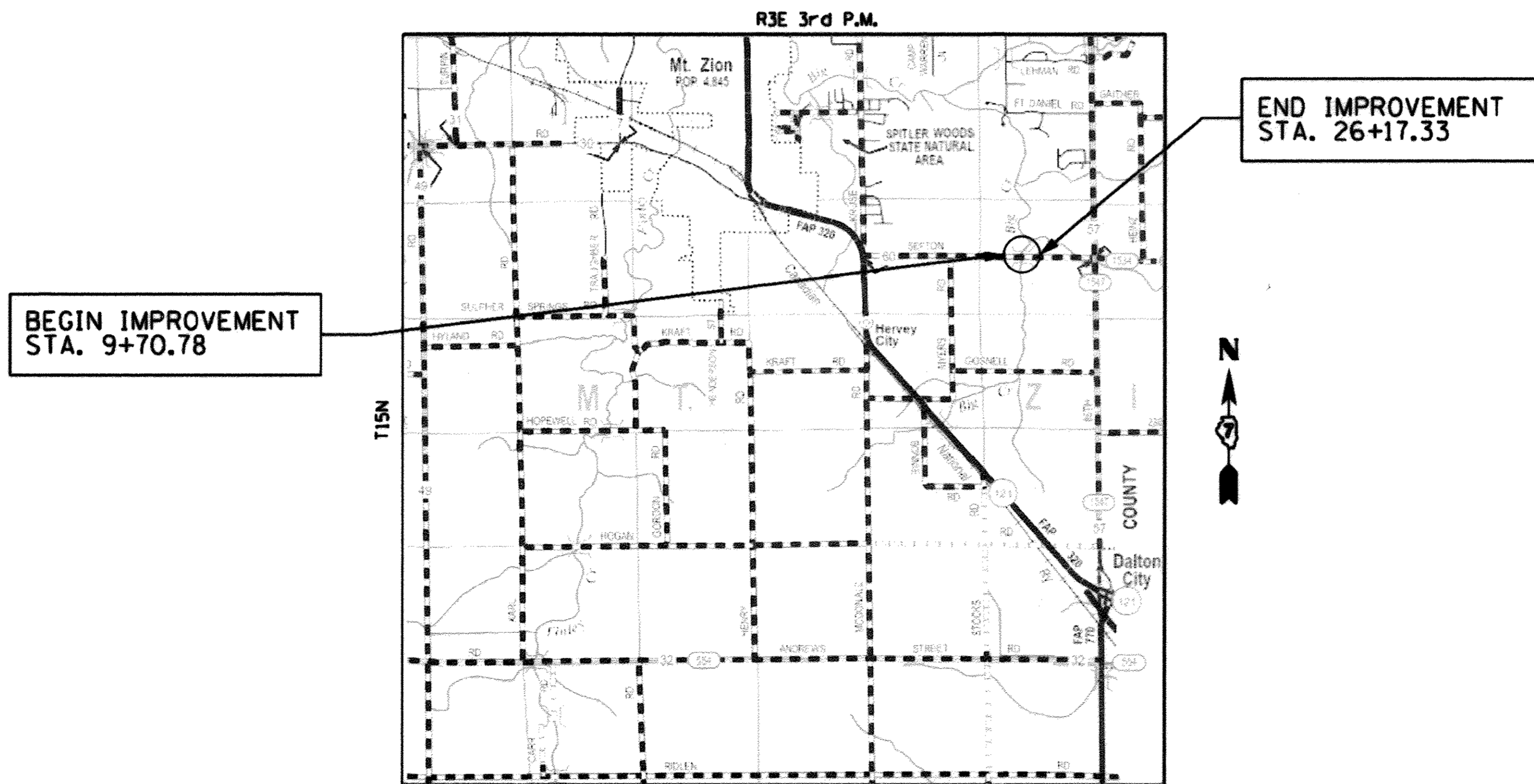
J.U.L.I.E.  
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
 1-800-892-0123  
 OR 811

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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**  
**DIVISION OF HIGHWAYS**

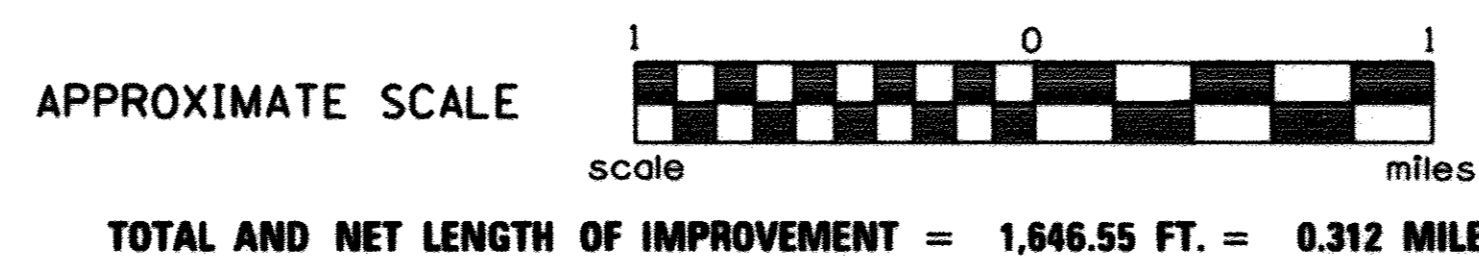
**PLANS FOR PROPOSED LOCAL AGENCY IMPROVEMENT**

**STP - BRIDGE PROGRAM**  
**F.A.U. 7411 /C.H. 60 (SEFTON ROAD) OVER BIG CREEK**  
**SECTION 07-00218-00-BR**  
**MACON COUNTY**  
**BRIDGE REPLACEMENT**  
**PROJECT NO. BRS-0115(071)**  
**JOB NO. C-97-045-13**

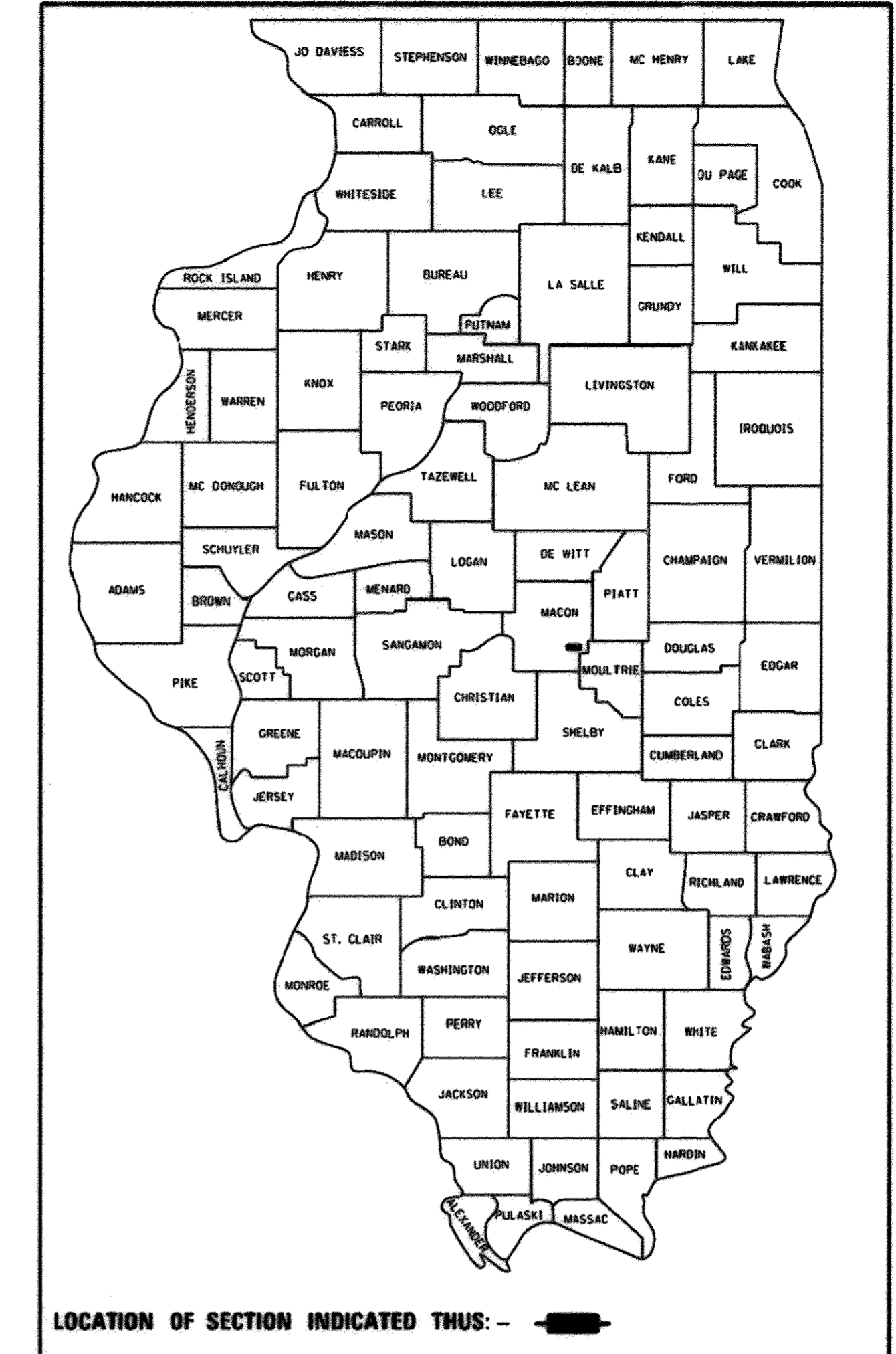


IMPROVEMENT CONSISTS OF THE REMOVAL OF A SINGLE SPAN 7" CONCRETE DECK ON STEEL MULTI-BEAM SUPERSTRUCTURE ON TIMBER ABUTMENTS WITH TIMBER WINGWALLS & CONSTRUCTION OF A SINGLE SPAN, CAST-IN-PLACE CONCRETE DECK ON 54" PPC I-BEAMS, 81'-10" LENGTH, 38'-0" F.-F. PARAPETS, 41'-2" O.-O. DECK, STA. 19+99.49, NO SKEW

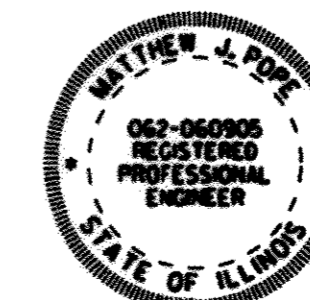
**LOCATION MAP**



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7411	07-00218-00-BR	MACON	51	1
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 95759	



STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	
APPROVED	FEBRUARY 23 20 17
	<i>[Signature]</i> COUNTY ENGINEER
PASSED	February 27 20 17
	<i>[Signature]</i> DISTRICT SEVEN ENGINEER OF LOCAL ROADS & STREETS
RELEASING FOR BID BASED ON LIMITED REVIEW	February 27 20 17
	<i>[Signature]</i> DEPUTY DIRECTOR OF HIGHWAYS, REGION FOUR ENGINEER



DATE 2/23/17  
*Matthew J. Pope*  
 ILL. REG. P.E. NO. 62-060905  
 EXPIRES: 11 / 30 / 2017

**URS** CORPORATION  
 345 EAST ASH AVENUE, SUITE B  
 DECATUR, ILLINOIS 62526  
 PH. 217-875-4800



**GENERAL NOTES**

ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED APRIL 1, 2016, THESE PLANS AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.

THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HOT-MIX ASPHALTS.

FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

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

THE AREA TO BE SEEDED SHALL CONSIST OF ALL DISTURBED EARTH SURFACES WITHIN THE RIGHT-OF-WAY AS DIRECTED BY THE ENGINEER.

ALL TREES WITHIN THE RIGHT-OF-WAY THAT INTERFERE WITH CONSTRUCTION SHALL BE REMOVED BY OTHERS PRIOR TO APRIL 1ST AT THE DIRECTION OF THE MACON COUNTY HIGHWAY DEPARTMENT. SEE COMMITMENTS BELOW AND NOTE 4 ON PLAN & PROFILE SHEET. THE CONTRACTOR SHALL COORDINATE WITH THE MACON COUNTY HIGHWAY DEPARTMENT PRIOR TO CONSTRUCTION.

WHERE MAILBOX RELOCATIONS ARE REQUIRED, ALL LABOR AND MATERIALS SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

THE CONTRACTOR SHALL INSPECT ALL EROSION AND SEDIMENT CONTROL MEASURES WEEKLY AND AFTER EACH RAINFALL EVENT EQUAL TO 1/2 INCH OR MORE.

DISTURBED AREAS SHALL RECEIVE PERMANENT STABILIZATION WITHIN 7 DAYS OF COMPLETION OF CONSTRUCTION ACTIVITIES. TEMPORARY STABILIZATION OF WORK AREAS IS REQUIRED FOR ALL AREAS REMAINING UNDISTURBED FOR 14 DAYS, UNLESS WORK RESUMES PRIOR TO 21 DAYS. TEMPORARY STABILIZATION MUST BE APPROVED BY THE ENGINEER.

THE CONTRACTOR SHALL INSTALL ALL EROSION CONTROL MEASURES PRIOR TO STARTING ANY OTHER CONSTRUCTION WORK AT THE SITE. LAYOUT OF EROSION CONTROL ITEMS MAY BE VARIED IN THE FIELD TO SUIT GROUND CONDITIONS AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR'S OPERATIONS AND TEMPORARY STORAGE ACTIVITIES SHALL BE LIMITED TO THE WORK AREA AND/OR CONSTRUCTION LIMITS. ANY ADDITIONAL STAGING AREAS ADJACENT TO THE PROJECT AREA ARE SUBJECT TO PRIOR APPROVAL BY THE ENGINEER AND MUST NOT CONFLICT WITH EXISTING SIDE ROADS, INTERSECTIONS, DRIVEWAYS, OR DRAINAGE. ALL OPERATIONS SHALL BE SUBJECT TO REGULATORY REQUIREMENTS PERMITTED FOR THIS PROJECT. NO ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR COMPLIANCE WITH THE ABOVE REQUIREMENTS.

FORTY-EIGHT HOURS BEFORE STARTING EXCAVATION, THE CONTRACTOR SHALL CALL J.U.L.I.E. (1-800-892-0123) TO HAVE THE LOCATION OF EXISTING UTILITIES STAKED. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UNDERGROUND UTILITIES. DRAWINGS INDICATE ONLY APPROXIMATE LOCATIONS OF UTILITIES KNOWN TO EXIST AT THE TIME OF DESIGN.

BEFORE ORDERING PIPE CULVERTS, THE CONTRACTOR SHALL CONTACT THE ENGINEER AS TO THE EXACT LENGTH AND QUANTITY REQUIRED.

THE CONTRACTOR SHALL RELOCATE OR REMOVE AND REPLACE ALL SIGNS THAT INTERFERE WITH THE CONSTRUCTION OPERATIONS AND TEMPORARILY RESET ALL SUCH SIGNS DURING ALL STAGES OF CONSTRUCTION AS DIRECTED BY THE ENGINEER. ENGINEER WILL DETERMINE PERMANENT LOCATION FOR EXISTING SIGNS TO BE RE-ERECTED. ALL NEW SIGNS WILL BE INSTALLED BY OTHERS.

ALL FIELD TILES ENCOUNTERED SHALL BE CAREFULLY PRESERVED AND REPAIRED OR CONNECTED TO THE PROPOSED DRAINAGE STRUCTURES OR DITCHES AS DIRECTED BY THE ENGINEER. PAYMENT OF THIS WORK SHALL BE INCLUDED IN THE VARIOUS DRAINAGE ITEMS OR AS DIRECTED BY THE ENGINEER.

THE MACON COUNTY HIGHWAY DEPARTMENT WILL BE RESPONSIBLE FOR THE CONSTRUCTION LAYOUT.

**HIGHWAY STANDARDS**

STANDARD 000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
STANDARD 001001-02	AREAS OF REINFORCEMENT BARS
STANDARD 001006	DECIMAL OF AN INCH AND OF A FOOT
STANDARD 280001-07	TEMPORARY EROSION CONTROL SYSTEMS
STANDARD 420406	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
STANDARD 515001-03	NAME PLATE FOR BRIDGES
STANDARD 601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAINS
STANDARD 630001-11	STEEL PLATE BEAM GUARDRAIL
STANDARD 630301-07	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
STANDARD 631031-15	TRAFFIC BARRIER TERMINAL TYPE 6
STANDARD 666001-01	RIGHT OF WAY MARKERS
STANDARD 701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
STANDARD 701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
STANDARD 701901-06	TRAFFIC CONTROL DEVICES
STANDARD 725001-01	OBJECT AND TERMINAL MARKERS
STANDARD 780001-05	TRAFFIC PAVEMENT MARKINGS
STANDARD BLR-21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
STANDARD BLR-22-7	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS (TWO-LANE TWO WAY RURAL TRAFFIC) (ROAD CLOSED TO THRU TRAFFIC)

**COMMITMENTS**

THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF 10 FEET BETWEEN ARCHAEOLOGICAL SITE 11M282 AND THE CONSTRUCTION LIMITS.

AN ASSESSMENT FOR SIGNS OF BATS UNDER THE BRIDGES AND CULVERTS OF THE MACON COUNTY BELTWAY PROJECT WAS CONDUCTED MAY 19, 2016. ONE BAT WAS FOUND ROOSTING IN A CULVERT OVER LAKE DECATUR TRIBUTARY. IF THE CULVERT OVER LAKE DECATUR TRIBUTARY WILL BE REMOVED WITHIN A YEAR OF THE 2016 ASSESSMENT THE CULVERT MUST BE REMOVED BETWEEN OCTOBER 1 AND MARCH 30. OTHERWISE ANOTHER ASSESSMENT SHALL BE DONE WITHIN ONE YEAR PRIOR TO CONSTRUCTION BEGINNING. THE MAY 19, 2016 ASSESSMENT FOR SIGNS OF BATS UNDER BRIDGES AND CULVERTS IS ONLY VALID FOR ONE YEAR. IF A CULVERT OR BRIDGE WITHIN THE MACON COUNTY BELTWAY PROJECT WILL BE REMOVED AFTER MAY 19, 2016 ANOTHER ASSESSMENT FOR SIGNS OF BATS IS REQUIRED.

TREES THREE INCHES OR GREATER IN DIAMETER AT BREST HEIGHT SHALL NOT BE CLEARED FROM APRIL 1ST THROUGH SEPTEMBER 30TH. TREE REMOVAL SHALL BE PERFORMED BY OTHERS PRIOR TO CONSTRUCTION.

**UTILITY COMPANIES**

GAS PIPELINE (42" DIAMETER)  
TALLGRASS ENERGY PARTNERS  
BEAU HUTCHISON PH. 217-663-7900

ELECTRIC  
AMEREN IP (SOUTH)  
MARTIN FULLER PH. 618-236-6281

GAS PIPELINE  
\* AMEREN IP (SOUTH)  
MARTIN FULLER PH. 618-236-6281

WATER  
\* LONG CREEK TOWNSHIP WATER DISTRICT  
WAYNE DOTSON PH. 217-519-0199 (CELL)

TELEPHONE  
FRONTIER COMMUNICATIONS  
DARRELL SENIOR PH. 309-827-1253

\* SEE PLAN & PROFILE AND CROSS SECTIONS FOR APPROXIMATE LOCATIONS, AS PROVIDED BY UTILITY COMPANIES.

**APPLICATION RATES**


AGG SHOULDERS, BASE & SURFACE COURSE	2.05	TONS/CU. YD.
STONE RIPRAP	1.50	TONS/CU. YD.
AGGREGATE (PRIME COAT)	0.002	TONS/S.Y.
BITUMINOUS MATERIALS PRIME COAT	0.25	LBS./SQ. FT. (ON AGG BASE CSE TY B, PE RT 13+79)
BITUMINOUS MATERIALS PRIME COAT	0.05	LBS./SQ. FT. (ON SOIL-CEMENT BASE COURSE, PRIOR TO BINDER)
BITUMINOUS MATERIALS PRIME COAT	0.025	LBS./SQ. FT. (ON BINDER, PRIOR TO SURFACE)
HOT-MIX ASPHALT	112	LBS./S.Y./INCH THICKNESS
FERTILIZER NUTRIENTS	90	LBS./ACRE
MULCH METHOD 2	2	TONS/ACRE
CEMENT	85	LBS./S.Y. (FOR 12" SOIL-CEMENT MIXTURE)

**BITUMINOUS MIXTURE REQUIREMENTS**

LOCATION	CH 60	CH 60
MIX USE	BINDER	SURFACE
AC/PG	PG 64-22**	PG 64-22**
RAP %	**	**
DESIGN VOIDS	4.0% @ N=70	4.0% @ N=70
MIXTURE COMPOSITION (GRAD. MIXTURE)	IL-19.0	IL-9.5
FRICITION	N/A	MIX C

\*\* TO BE DETERMINED BY CONTRACTOR (SEE SPECIAL PROVISION). FOR MIXTURES CONTAINING A MINIMUM OF 15% RAP, HIGH AND LOW TEMPERATURE GRADES SHOULD BE REDUCED BY ONE GRADE EQUIVALENT TO PG 58-28.

STRUCTURAL DESIGN TRAFFIC:	YEAR 2023
PV = 554	SU = 28 MU = 28
ROAD/STREET CLASSIFICATION:	CLASS III
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:	
P = 50%	S = 50% M = 50%
TRAFFIC FACTOR:	ACTUAL TF = 0.104 MINIMUM TF = N/A
PG GRADE:	TOP BINDER = 64-22 LOWER BINDER = N/A
	SURFACE = 64-22
SUBGRADE SUPPORT RATING:	
SSR = POOR (STA. 9+70.78 TO 26+17.33)	

FILE NAME = GENERAL_DATA.dgn	DESIGNED - MJP	REVISED -	 <b>345 EAST ASH AVE., SUITE B DECATUR, ILLINOIS 62526 PH. 217-875-4800</b>	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL DATA CH 60 (SEFTON ROAD) OVER BIG CREEK</b>		F.A.U. RTE. = 7411	SECTION = 07-00218-00-BR	COUNTY = MACON	TOTAL SHEETS = 51	SHEET NO. = 2	
PLOT DATE = 2/17/2017	CHECKED - JAC	REVISED -			SCALE: NTS	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	CONTRACT NO. 95759 ILLINOIS FED. AID PROJECT				
PLOT TIME = 2:56:13 PM	DRAWN - MJP	REVISED -										

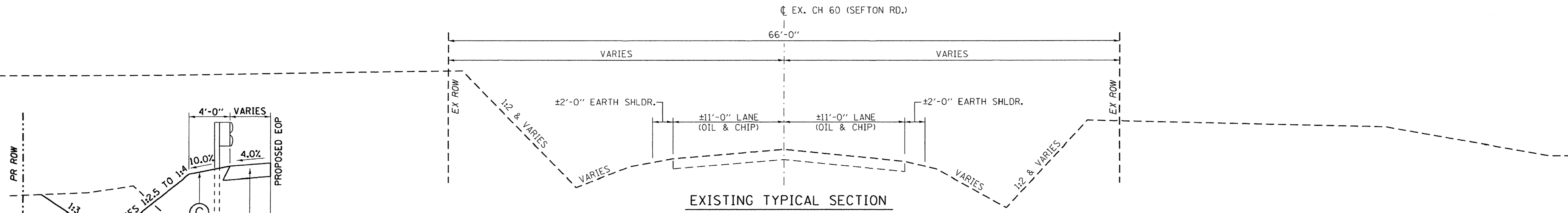


CODE NO.	ITEM	UNIT	TOTAL QUANTITY
20200100	EARTH EXCAVATION	CU YD	2,980
20300100	CHANNEL EXCAVATION	CU YD	650
20400800	FURNISHED EXCAVATION	CU YD	11,999
25000200	SEEDING, CLASS 2	ACRE	2.0
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	178
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	178
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	178
25100115	MULCH, METHOD 2	ACRE	2.0
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	582
28000305	TEMPORARY DITCH CHECKS	FOOT	378
28000400	PERIMETER EROSION BARRIER	FOOT	3,250
28000500	INLET AND PIPE PROTECTION	EACH	2
28100207	STONE RIPRAP, CLASS A4	TON	831
28200200	FILTER FABRIC	SQ YD	1,239
35101400	AGGREGATE BASE COURSE, TYPE B	TON	33
35200420	PROCESSING SOIL-CEMENT BASE COURSE 12"	SQ YD	4,041
35200500	CEMENT	100 WT	3,435
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	52
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	170
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	2,654
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	1,277
40603315	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	416
40800025	BITUMINOUS MATERIALS (PRIME COAT)	POUND	213
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	11
42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	SQ YD	90
44000100	PAVEMENT REMOVAL	SQ YD	1,751
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	66
48100100	AGGREGATE SHOULDERS, TYPE A	TON	619

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50105220	PIPE CULVERT REMOVAL	FOOT	71
50300100	FLOOR DRAINS	EACH	10
50300225	CONCRETE STRUCTURES	CU YD	75.8
50300255	CONCRETE SUPERSTRUCTURE	CU YD	163.0
50300260	BRIDGE DECK GROOVING	SQ YD	577
50300300	PROTECTIVE COAT	SQ YD	704
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	113.1
50401105	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE I-BEAMS, 54 IN.	FOOT	497
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	81,490
51200957	FURNISHING METAL SHELL PILES 12" X 0.250"	FOOT	450
51202305	DRIVING PILES	FOOT	450
51203200	TEST PILE METAL SHELLS	EACH	2
51500100	NAME PLATES	EACH	1
542D1069	PIPE CULVERTS, CLASS D, TYPE 2 24"	FOOT	186
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	73
△ 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	50
△ 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4
△ 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4
△ 63200310	GUARDRAIL REMOVAL	FOOT	160
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	26
67100100	MOBILIZATION	L SUM	1
△ 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
△ 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	3,704
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	180
X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	124.7
X6660410	REMOVE RIGHT-OF-WAY MARKERS	EACH	1
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1

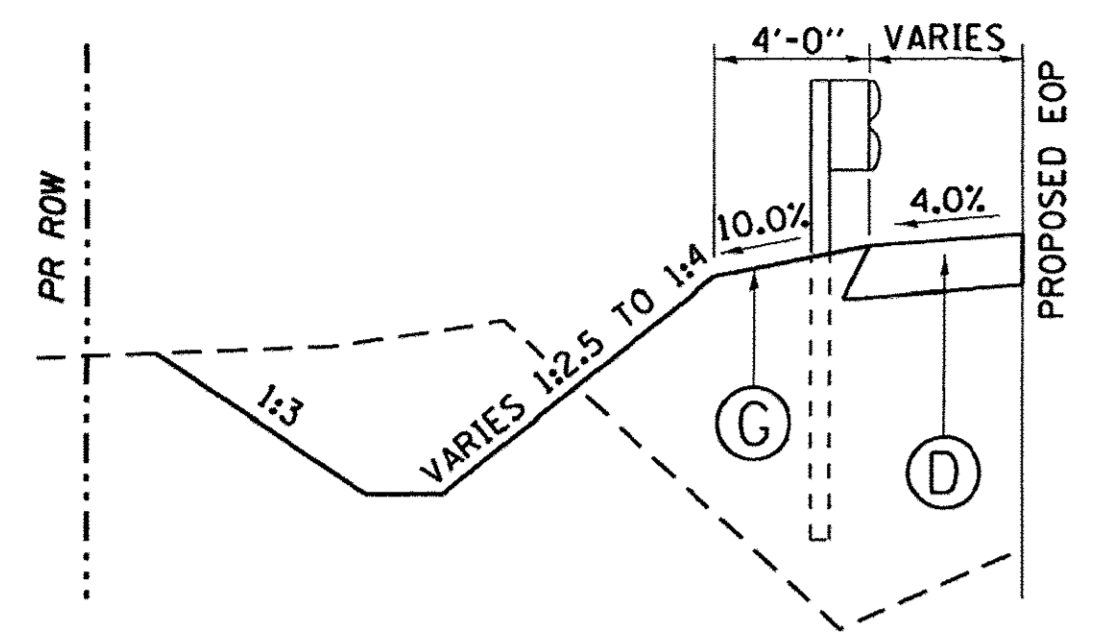
△ SPECIALTY ITEMS



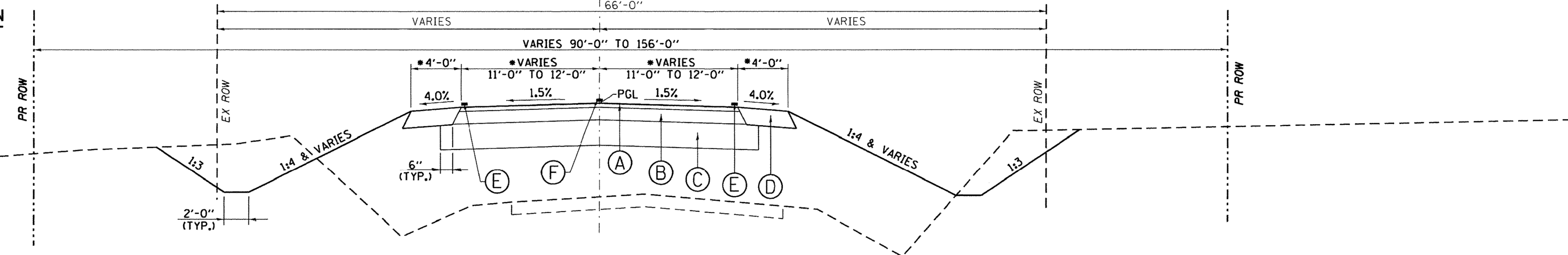


**PROPOSED TYPICAL SHOULDER SECTION  
(WITH GUARDRAIL - LT & RT)**

TAPER EARTH SHOULDER: STA. 18+01.74 TO 18+25.74  
 4'-0" EARTH SHOULDER: STA. 18+25.74 TO 19+42.74  
 4'-0" EARTH SHOULDER: STA. 20+56.24 TO 21+73.24  
 TAPER EARTH SHOULDER: STA. 21+73.24 TO 21+97.24



EX. CH 60 (SEFTON RD.) \* ADDITIONAL 4'-0" EARTH SHOULDER AT WIDENING LOCATIONS FOR GUARDRAIL. CONSTRUCT IN ACCORDANCE WITH STANDARD 630301 FOR LANE & SHLDR. TRANSITIONS AT BRIDGE, SEE HORIZ. LAYOUT & R.O.W. SHEET.



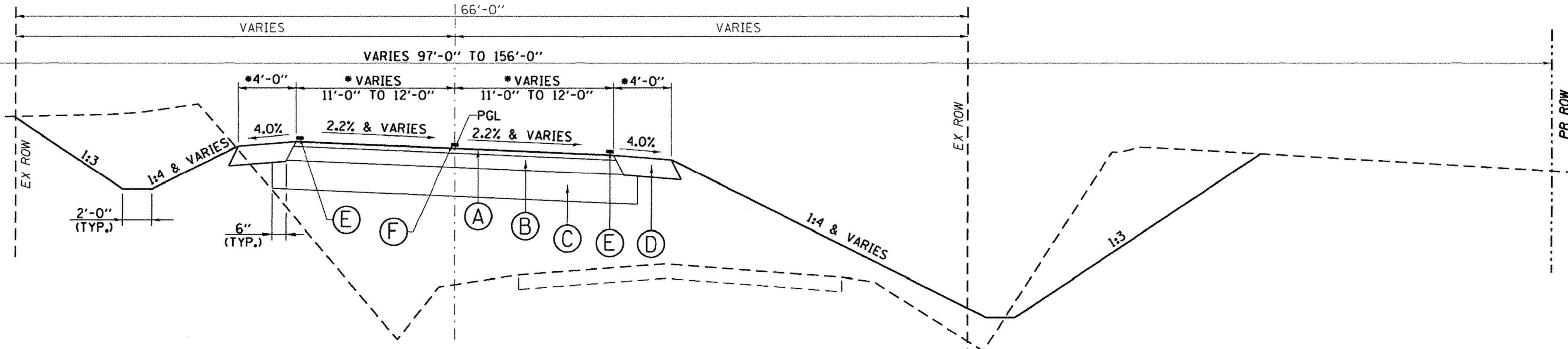
**PROPOSED TYPICAL ROADWAY CROSS SECTION (NORMAL CROWN)**

NORMAL CROWN: STA. 10+20.78 TO 14+36.00  
 STA. 18+97.00 TO 19+27.74  
 STA. 20+71.24 TO 25+67.33  
 TRANSITION TO EXISTING WIDTH: STA. 9+70.78 TO STA. 10+20.78  
 STA. 25+67.33 TO STA. 26+17.33  
 PROPOSED BRIDGE: STA. 19+56.74 TO STA. 20+42.24

EX. CH 60 (SEFTON RD.) \* ADDITIONAL 4'-0" EARTH SHOULDER AT WIDENING LOCATIONS FOR GUARDRAIL. CONSTRUCT IN ACCORDANCE WITH STANDARD 630301 FOR LANE & SHLDR. TRANSITIONS AT BRIDGE, SEE HORIZ. LAYOUT & R.O.W. SHEET.

**PROPOSED LEGEND**

- (A) PROPOSED 2" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70
- (B) PROPOSED 6" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70
- (C) PROPOSED SOIL CEMENT BASE COURSE 12"
- (D) PROPOSED AGGREGATE SHOULDERS, TYPE A (8")
- (E) PROPOSED PAINT PAVEMENT MARKING - LINE 4" (SOLID WHITE)
- (F) PROPOSED PAINT PAVEMENT MARKING - LINE 4" (SKIP-DASH YELLOW)
- (G) EARTH SHOULDER WIDENING (SEE STD. 630301)



**PROPOSED TYPICAL ROADWAY CROSS SECTION (SUPERELEVATION)**

TANGENT RUNOUT: STA. 14+36.00 TO 14+72.00  
 STA. 18+61.00 TO 18+97.00  
 SUPERELEVATION RUNOFF: STA. 14+72.00 TO 15+24.00  
 STA. 18+09.00 TO 18+61.00  
 FULL SUPERELEVATION: STA. 15+24.00 TO 18+09.00

FILE NAME = TYPICAL_SECTIONS.dgn	DESIGNED - MJP	REVISED -	345 EAST ASH AVE., SUITE B DECATUR, ILLINOIS 62526 PH. 217-875-4800	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS CH 60 (SEFTON ROAD) OVER BIG CREEK		F.A.U. RTE. 7411	SECTION 07-00218-00-BR	COUNTY MACON	TOTAL SHEETS 51	SHEET NO. 4		
PLOT DATE = 1/18/2017	DRAWN - MJP	REVISED -			SCALE: NTS	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	CONTRACT NO. 95759		ILLINOIS FED. AID PROJECT			
PLOT TIME = 12:40:28 PM	CHECKED - JAC	REVISED -											



LOCATION		TEMPORARY DITCH CHECKS
STATION	OFFSET	(FOOT)
10+58	LT	9
11+39	LT	9
12+19	LT	9
13+00	LT	9
15+50	LT	9
16+50	LT	9
18+13	LT	9
18+33	LT	9
18+59	LT	8
19+27	LT	8
21+23	LT	8
21+68	LT	9
22+14	LT	9
22+59	LT	9
23+05	LT	9
23+50	LT	9
24+50	LT	9
25+50	LT	9
10+04	RT	8
11+00	RT	9
12+00	RT	9
13+00	RT	9
14+67	RT	9
15+33	RT	9
16+00	RT	9
16+27	RT	9
16+53	RT	9
16+80	RT	9
17+07	RT	9
17+33	RT	9
17+60	RT	9
17+87	RT	9
18+13	RT	9
18+40	RT	8
18+67	RT	8
18+93	RT	8
19+62	RT	8
19+89	RT	8
22+03	RT	9
22+70	RT	9
23+37	RT	9
24+07	RT	9
25+50	RT	9
TOTAL		378

LOCATION			AREA	SEEDING, CLASS 2	NITROGEN FERTILIZER NUTRIENT		PHOSPHORUS FERTILIZER NUTRIENT		POTASSIUM FERTILIZER NUTRIENT		MULCH, METHOD 2	TEMPORARY EROSION CONTROL SEEDING		
STATION	STATION	LT/RT	(SQ FT)	(ACRE)	RATE (LBS/ACRE)	(POUND)	RATE (LBS/ACRE)	(POUND)	RATE (LBS/ACRE)	(POUND)	(ACRE)	RATE (LBS/ACRE)	APPLICATIONS	(POUND)
9+70.78	13+90	LT	9,253	0.22	90	20	90	20	90	20	0.22	100	3	66
9+70.78	13+79	RT	7,644	0.18	90	17	90	17	90	17	0.18	100	3	54
13+79	20+10	RT	23,511	0.54	90	49	90	49	90	49	0.54	100	3	162
13+90	19+80	LT	17,377	0.40	90	36	90	36	90	36	0.40	100	3	120
20+06	22+00	LT	5,638	0.13	90	12	90	12	90	12	0.13	100	3	39
20+20	22+00	RT	4,797	0.12	90	11	90	11	90	11	0.12	100	3	36
22+00	26+17.33	LT	7,244	0.17	90	16	90	16	90	16	0.17	100	3	51
22+00	26+17.33	RT	7,458	0.18	90	17	90	17	90	17	0.18	100	3	54
TOTAL				2.00		178		178		178	2.00			582

LOCATION	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE WASTE(+) AND SHORTAGE (-) (FURNISHED EXCAVATION)
	(CU YD)	(CU YD)	(CU YD)	(CU YD)
WEST OF BRIDGE, STA. 9+70.78 TO STA. 19+56.74	2,271	1,703	9,163	-7,460
EAST OF BRIDGE, STA. 20+42.24 TO STA. 26+17.33	709	532	5,071	-4,539
TOTAL	2,980	2,235	14,234	-11,999
SHRINKAGE FACTOR FOR EARTH EXCAVATION = 25%				

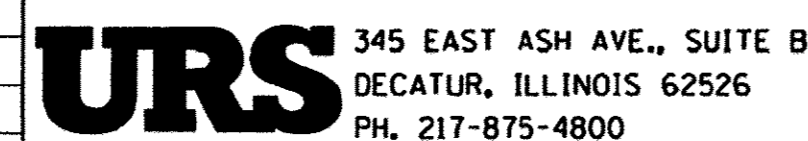
LOCATION	CHANNEL EXCAVATION (CU YD)
BEHIND EXIST. WEST ABUTMENT, STA. 19+70 TO 19+83	170
EXCAV. FOR RIPRAP AND BEDDING, STA. 19+64 TO STA. 19+91	128
BEHIND EXIST. EAST ABUTMENT, STA. 20+14 TO 20+29	217
EXCAV. FOR RIPRAP AND BEDDING, STA. 20+22 TO STA. 20+35	135
TOTAL (ASSUMED TO BE UNSUITABLE FOR FILL MATERIAL)	650

LOCATION			PERIMETER EROSION BARRIER
STATION	STATION	OFFSET	(FOOT)
9+70	13+75	LT	414
9+70	13+65	RT	412
13+90	20+10	RT	618
14+06	19+80	LT	584
20+06	26+17	LT	625
20+33	26+17	RT	597
TOTAL			3,250

LOCATION			LENGTH	WIDTH	DEPTH	AREA	APPLICATION RATE	STONE RIPRAP, CLASS A4	FILTER FABRIC
STATION	STATION	OFFSET	(FOOT)	(FOOT)	(FOOT)	(SQ FT)	(TON/CU YD)	(TON)	(SQ YD)
16+50	18+00	LT	159.00	11.00	1.34	1,749	1.50	130	194
19+46.74	19+91.42	LT&RT	44.68	81.17	1.34	3,338	1.50	249	371
20+06.00	21+00.00	LT	95.00	9.00	1.34	855	1.50	64	95
20+06.02	20+52.24	LT&RT	46.22	81.17	1.34	3,477	1.50	259	387
20+33.00	22+00.00	RT			1.34	1,725	1.50	129	192
TOTAL								831	1,239

LOCATION		INLET AND PIPE PROTECTION
STATION	OFFSET	(EACH)
13+55	30.5' RT	1
13+64	29.0' LT	1
TOTAL		2

FILE NAME = SCHEDULES.dgn	DESIGNED - MJP	REVISOR -
PLOT DATE = 2/17/2017	CHECKED - JAC	REVISION -
PLOT TIME = 3:10:46 PM	DRAWN - MJP	REVISION -
	CHECKED - JAC	REVISION -



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES  
CH 60 (SEFTON ROAD) OVER BIG CREEK

SCALE: NTS SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7411	07-00218-00-BR	MACON	51	5
ILLINOIS FED. AID PROJECT			CONTRACT NO. 95759	



LOCATION		TYPE	PAVEMENT REMOVAL (SQ YD)	DRIVEWAY PAVEMENT REMOVAL (SQ YD)
STATION	STATION			
9+70.78	14+50.00	CH 60	1,207	
13+59.52	14+01.55	BIT PE RT		66
24+00.00	26+17.33	CH 60	544	
TOTAL			1,751	66

LOCATION		LENGTH (FOOT)	PROCESSING SOIL-CEMENT BASE COURSE 12" (SQ YD)	CEMENT (100 WT)	BITUMINOUS MATERIALS (PRIME COAT) (POUND)	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 (TON)	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70 (TON)	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB (SQ YD)	AGGREGATE SHOULDERS, TYPE A (TON)
STATION	STATION	(FOOT)	(SQ YD)	(100 WT)	(POUND)	(TON)	(TON)	(SQ YD)	(TON)
9+70.78	10+20.78	50.00	136	116	89	43	14		18
10+20.78	18+01.74	780.96	2,112	1,795	1,387	666	216		302
18+01.74	19+17.74	116.00	327	278	215	104	34		65
19+17.74	19+27.74	10.00						45	
20+71.24	20+81.24	10.00						45	
20+81.24	21+97.24	116.00	327	278	215	104	34		65
21+97.24	25+67.33	370.09	1,001	851	657	316	103		150
25+67.33	26+17.33	50.00	138	117	91	44	15		19
TOTAL			4,041	3,435	2,654	1,277	416	90	619

LOCATION			TYPE	COLOR	PAINT PAVEMENT MARKING - LINE 4" (FOOT)
STATION	STATION	OFFSET			
9+70.78	26+17.33	CL	SKIP DASH	YELLOW	410
9+70.78	26+17.33	LT	SOLID	WHITE	1,647
9+70.78	26+17.33	RT	SOLID	WHITE	1,647
TOTAL					3,704

LOCATION		TYPE	EXISTING MATERIAL	WIDTH		LENGTH	AREA	AGGREGATE BASE COURSE, TYPE B (6") (TON)	AGGREGATE SURFACE COURSE, TYPE B (8") (TON)	AGGREGATE FOR TEMPORARY ACCESS (TON)	BITUMINOUS MATERIALS (PRIME COAT) (POUND)	INDICENTAL HOT-MIX ASPHALT SURFACING (TON)	PIPE CULVERT REMOVAL (FOOT)	PIPE CULVERTS, CLASS D, TYPE 2 24" (FOOT)
STATION	OFFSET			W <sub>1</sub> (FOOT)	W <sub>2</sub> (FOOT)	L (FOOT)	(SQ FT)	(TON)	(TON)	(TON)	(POUND)	(TON)	(FOOT)	(FOOT)
STA 13+79	RT	PE	BIT	24.00	14.92	26.33	852	33	66	66	213	11	31	50
STA 13+90	LT	FE	AGG	24.00		28.38	1,020		52	104			40	136
TOTAL								33	52	170	213	11	71	186

LOCATION		STATION	OFFSET	FURNISHING AND ERECTING RIGHT OF WAY MARKERS (EACH)
		10+50.00	32.85' LT	1
		10+50.00	50.79' LT	1
		10+50.00	33.15' RT	1
		10+50.00	46.26' RT	1
		13+20.87	51.37' LT	1
		13+20.87	45.67' RT	1
		15+02.29	45.13' LT	1
		15+02.29	51.96' RT	1
		16+40.00	39.71' LT	1
		16+40.00	85.74' LT	1
		16+40.00	57.35' RT	1
		16+40.00	72.36' RT	1
		18+52.30	82.00' LT	1
		18+52.30	74.00' RT	1
		22+20.00	46.00' RT	1
		22+20.00	74.00' RT	1
		22+53.18	44.00' LT	1
		22+53.18	82.00' LT	1
		22+53.18	46.00' RT	1
		22+67.18	44.03' LT	1
		22+67.18	45.97' RT	1
		23+82.50	46.31' LT	1
		23+85.64	43.64' RT	1
		25+00.00	32.69' LT	1
		25+00.00	52.21' LT	1
		25+68.13	33.01' RT	1
TOTAL				26

LOCATION			STEEL PLATE BEAM GUARDRAIL, TYPE A 6 FOOT POSTS (FOOT)	TRAFFIC BARRIER TERMINAL, TYPE 6 (EACH)	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT (EACH)	GUARDRAIL REMOVAL (FOOT)	TERMINAL MARKER - DIRECT APPLIED (EACH)
STATION	STATION	OFFSET	(FOOT)	(EACH)	(EACH)	(FOOT)	(EACH)
18+37.09	18+87.09	LT			1		1
18+37.09	18+87.09	RT			1		1
18+87.09	18+99.59	LT	12.5				
18+87.09	18+99.59	RT	12.5				
18+99.59	19+45.24	LT		1			
18+99.59	19+45.24	RT		1			
19+42.00	19+82.00	LT				40	
19+42.00	19+82.00	RT				40	
20+16.00	20+56.00	LT				40	
20+16.00	20+56.00	RT				40	
20+53.74	20+99.39	LT		1			
20+53.74	20+99.39	RT		1			
20+99.39	21+11.89	LT	12.5				
20+99.39	21+11.89	RT	12.5				
21+11.89	21+61.89	LT			1		1
21+11.89	21+61.89	RT			1		1
TOTAL			50	4	4	160	4

LOCATION		REMOVE RIGHT-OF-WAY MARKERS (EACH)
STATION	OFFSET	(EACH)
13+70	30' LT	1
TOTAL		1

LOCATION			PIPE UNDERDRAINS FOR STRUCTURES 4" (FOOT)
STATION	OFFSET (LT)	OFFSET (RT)	(FOOT)
19+54.74	43' LT	45' RT	90
20+44.24	43' LT	45' RT	90
TOTAL			180

FILE NAME = SCHEDULES.dgn	DESIGNED - MJP	REVISIONS -
PLOT DATE = 1/18/2017	CHECKED - JAC	REVISIONS -
PLOT TIME = 12:41:14 PM	DRAWN - MJP	REVISIONS -
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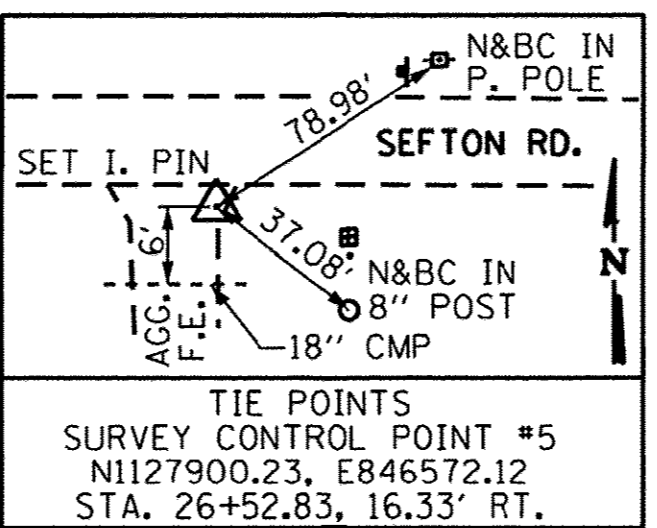
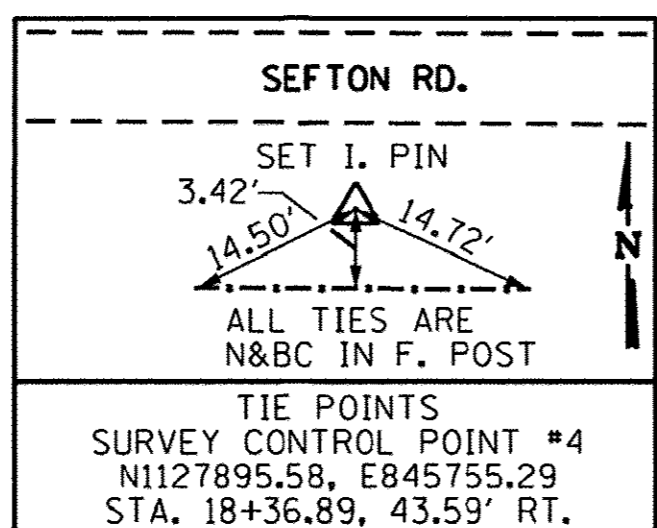
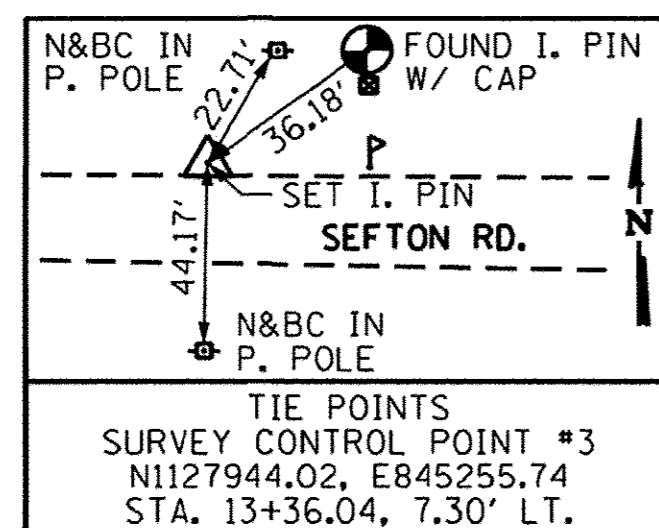
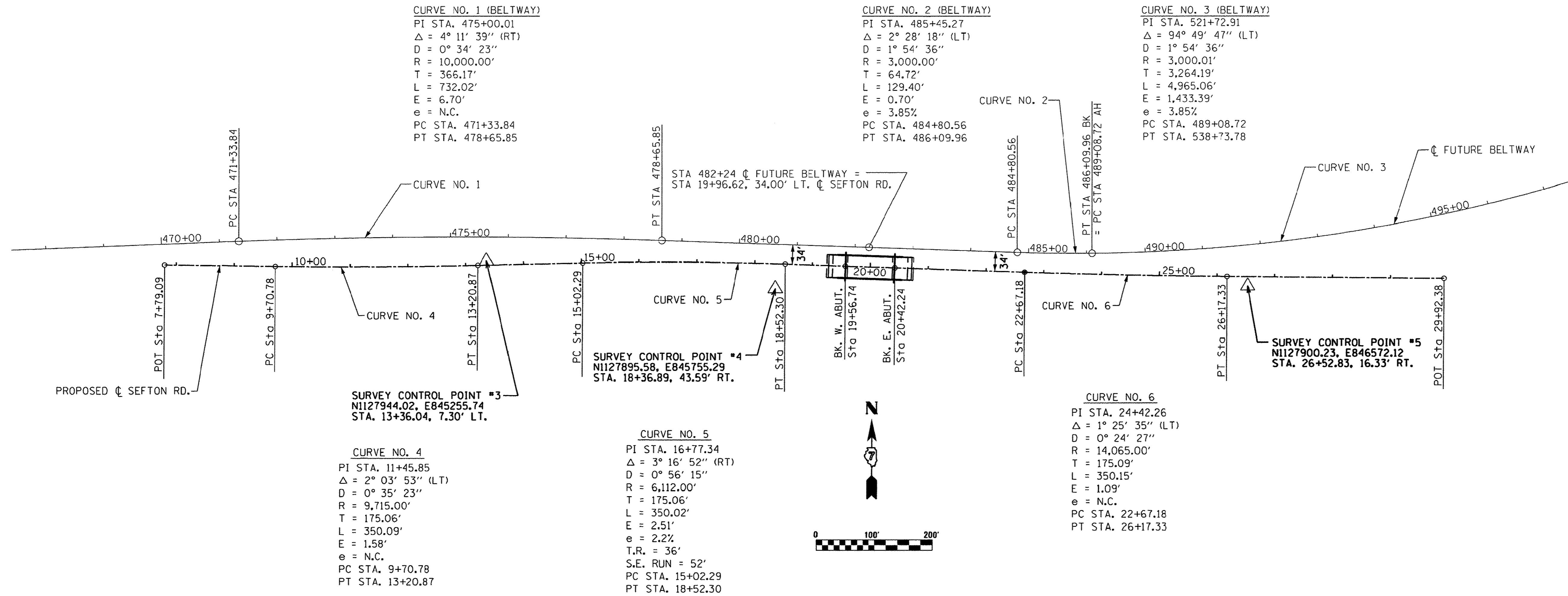
**URS** 345 EAST ASH AVE., SUITE B  
 DECATUR, ILLINOIS 62526  
 PH. 217-875-4800

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES  
 CH 60 (SEFTON ROAD) OVER BIG CREEK  
 SCALE: NTS SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE. 7411	SECTION 07-00218-00-BR	COUNTY MACON	TOTAL SHEETS 51	SHEET NO. 6
ILLINOIS FED. AID PROJECT			CONTRACT NO. 95759	





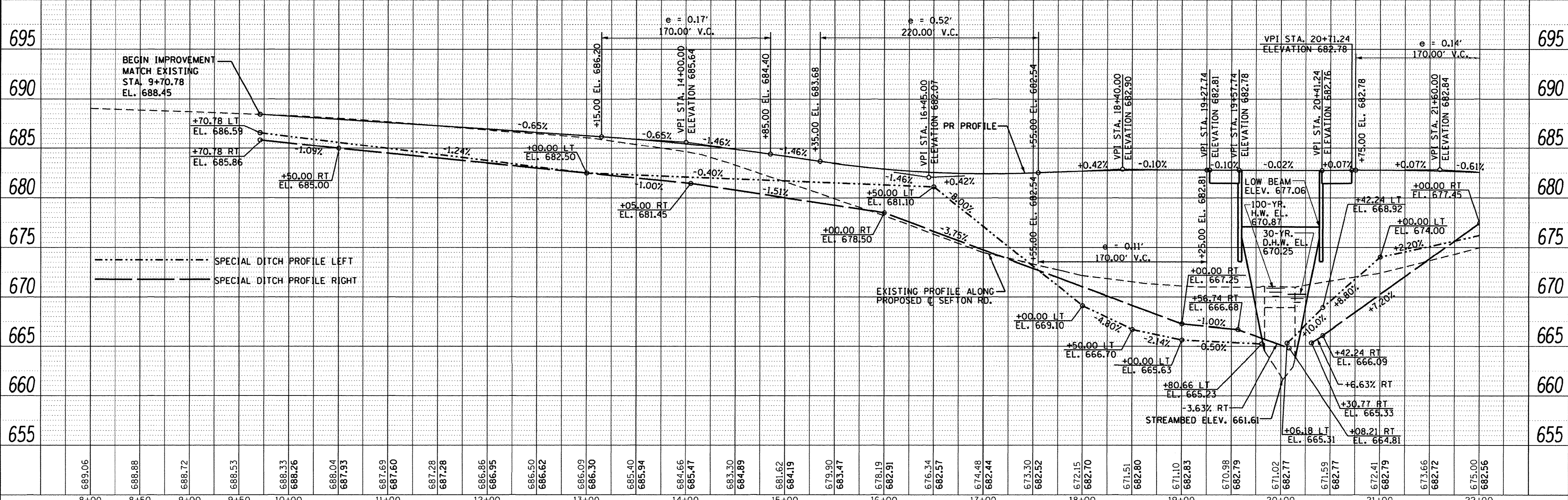
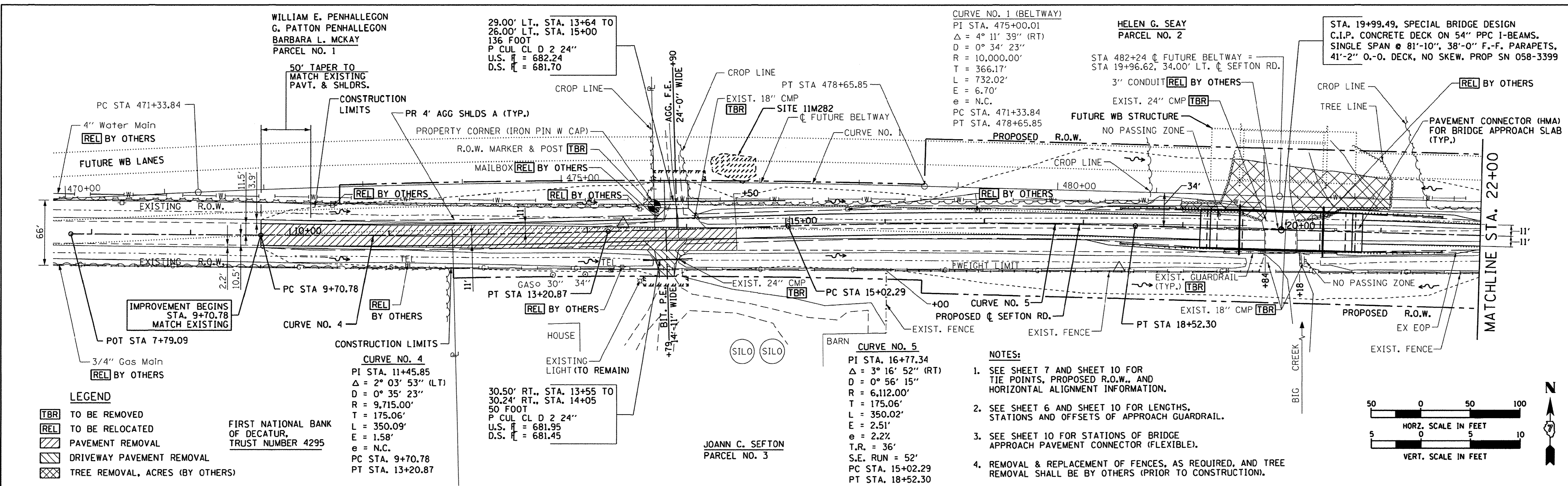
ALIGNMENT COORDINATES - CH 60 (SEFTON RD.)			
STATION	N	E	
POT 7+79.09	1127937.0563	844698.9997	
PC 9+70.78	1127934.5824	844890.6758	
PI 11+45.85	1127932.3231	845065.7253	
PT 13+20.87	1127936.3721	845240.7424	
PC 15+02.29	1127940.5678	845422.1068	
PI 16+77.34	1127944.6166	845597.1171	
PT 18+52.30	1127938.6418	845772.0723	
PC 22+67.18	1127924.4819	846186.7025	
PI 24+42.26	1127918.5061	846361.6870	
PT 26+17.33	1127916.8881	846536.7660	
POT 29+92.38	1127913.4220	846911.8005	

- NOTES:**
- FUTURE BELTWAY CENTERLINE AND ALIGNMENT INFORMATION WAS PROVIDED BY OTHERS.
  - SEE HORIZONTAL LAYOUT & R.O.W. SHEET FOR R.O.W. COORDINATE INFORMATION.
  - SEE PLAN & PROFILE (SHEET 2 OF 2) FOR BENCHMARK LOCATION.



DATE		BY	
SUBMITTED			
PLANNING			
DESIGNED			
DRAWN			
CHECKED			
REVISIONS			
NO.			
DATE		BY	
NO.			

DATE		BY	
SUBMITTED			
PLANNING			
DESIGNED			
DRAWN			
CHECKED			
REVISIONS			
NO.			
DATE		BY	
NO.			



FILE NAME = P_P_55T08 Sht1.dgn	DESIGNED - MJP	REVISIONS		<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN &amp; PROFILE</b> <b>CH 60 (SEFTON ROAD) OVER BIG CREEK</b>	SCALE: 1" = 50' SHEET 1 OF 2 SHEETS STA. 7+79.09 TO STA. 22+00.00	F.A.U. RTE. 7411	SECTION 07-00218-00-BR	COUNTY MACON	TOTAL SHEETS 51	SHEET NO. 8
PLOT DATE = 2/21/2017	CHECKED - JAC	REVISIONS					CONTRACT NO. 95759	ILLINOIS FED. AID PROJECT			
PLOT TIME = 2:53:28 PM	DATE - 8/29/14	REVISIONS									



**BENCHMARK #1:**  
SPIKE NAIL IN FENCE POST  
STA. 23+25, 36' RT.  
ELEV. 683.39

HELEN G. SEAY  
PARCEL NO. 2

**CURVE NO. 2 (BELTWAY)**  
PI STA. 485+45.27  
 $\Delta = 2^\circ 28' 18''$  (LT)  
D = 1° 54' 36"  
R = 3,000.00'  
T = 64.72'  
L = 129.40'  
E = 0.70'  
e = 3.85%

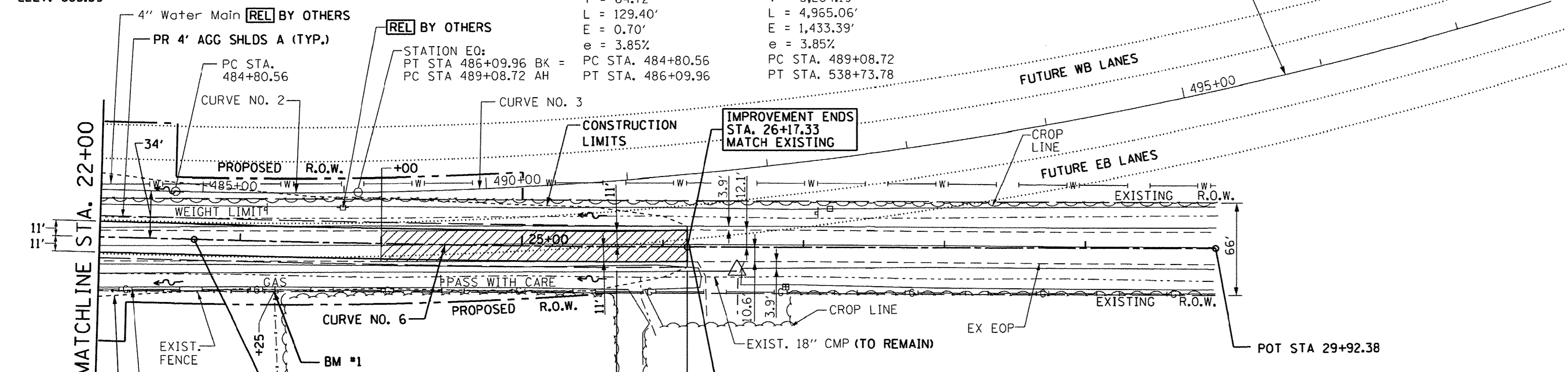
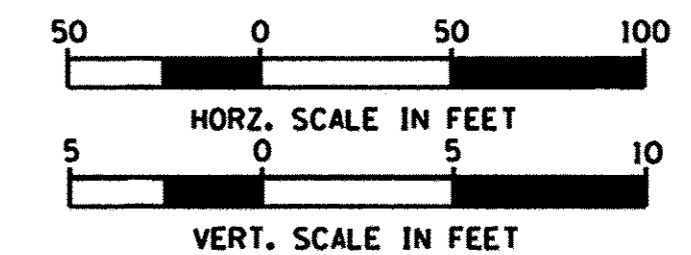
**CURVE NO. 3 (BELTWAY)**  
PI STA. 521+72.91  
 $\Delta = 94^\circ 49' 47''$  (LT)  
D = 1° 54' 36"  
R = 3,000.01'  
T = 3,264.19'  
L = 4,965.06'  
E = 1,433.39'  
e = 3.85%

STATION E.O.  
PT STA 486+09.96 BX =  
PC STA 489+08.72 AH

PC STA. 484+80.56  
PT STA. 486+09.96

IMPROVEMENT ENDS  
STA. 26+17.33  
MATCH EXISTING

DATE	
BY	
PLAN	
NO.	
DATE	
BY	
PROFILE	
NO.	



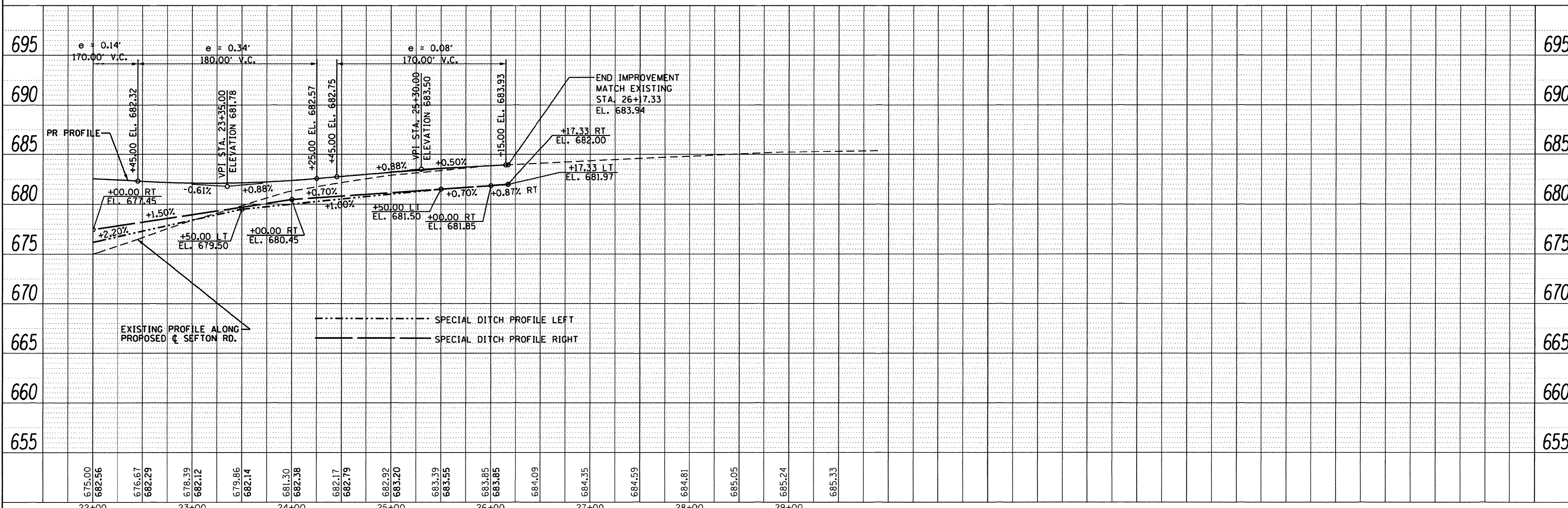
**NOTES:**

- SEE SHEET 7 AND SHEET 10 FOR TIE POINTS, PROPOSED R.O.W., AND HORIZONTAL ALIGNMENT INFORMATION.
- SEE SHEET 6 AND SHEET 10 FOR LENGTHS, STATIONS AND OFFSETS OF APPROACH GUARDRAIL.
- SEE SHEET 10 FOR STATIONS OF PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB.
- REMOVAL & REPLACEMENT OF FENCES, AS REQUIRED, SHALL BE BY OTHERS (PRIOR TO CONSTRUCTION).

**LEGEND**

- TBR TO BE REMOVED
- REL TO BE RELOCATED
- PAVEMENT REMOVAL
- DRIVEWAY PAVEMENT REMOVAL
- TREE REMOVAL, ACRES

DATE	
BY	
PROFILE	
NO.	



FILE NAME =	DESIGNED - MJP	REVISED -
P.P. 55108 Sh+2.dgn	DRAWN - REZ/MJP	REVISED -
PLOT DATE = 1/18/2017	CHECKED - JAC	REVISED -
PLOT TIME = 12:42:58 PM	DATE - 8/29/14	REVISED -

**URS** 345 EAST ASH AVE., SUITE B  
DECATUR, ILLINOIS 62526  
PH. 217-875-4800

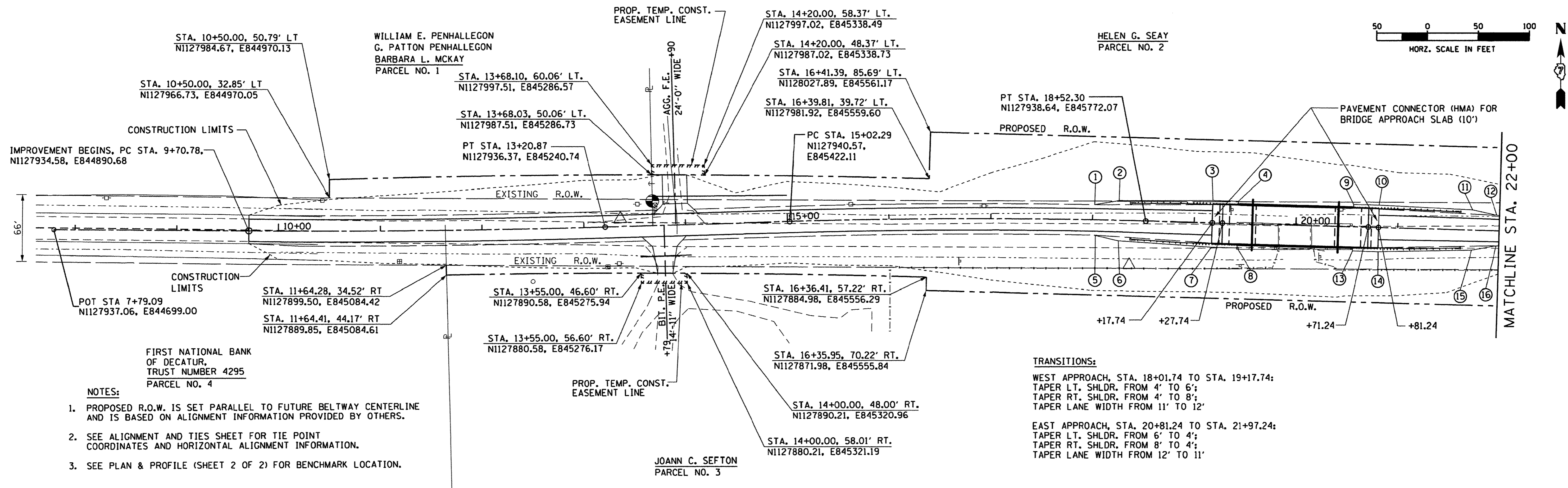
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE  
CH 60 (SEFTON ROAD) OVER BIG CREEK

SCALE: 1" = 50' SHEET 2 OF 2 SHEETS STA. 22+00.00 TO STA. 29+92.38

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7411	07-00218-00-BR	MACON	51	9
CONTRACT NO. 95759			ILLINOIS FED. AID PROJECT	



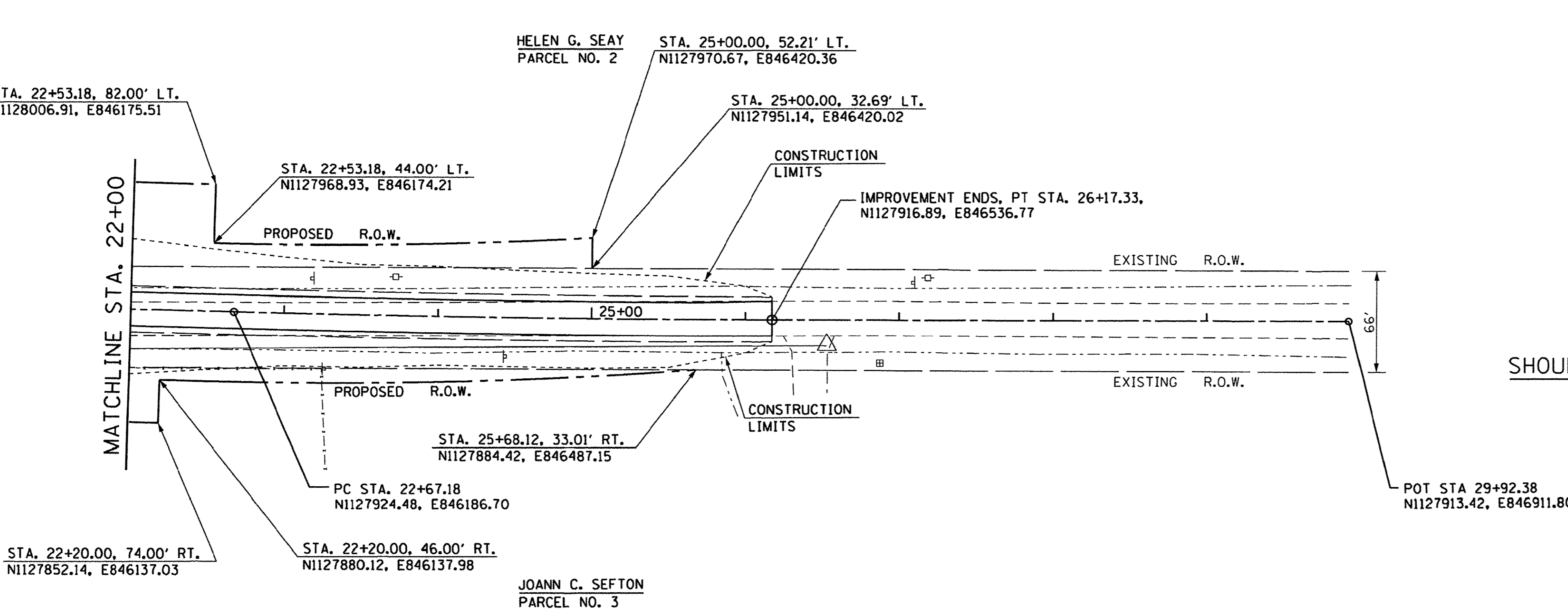


- NOTES:**
1. PROPOSED R.O.W. IS SET PARALLEL TO FUTURE BELTWAY CENTERLINE AND IS BASED ON ALIGNMENT INFORMATION PROVIDED BY OTHERS.
  2. SEE ALIGNMENT AND TIES SHEET FOR TIE POINT COORDINATES AND HORIZONTAL ALIGNMENT INFORMATION.
  3. SEE PLAN & PROFILE (SHEET 2 OF 2) FOR BENCHMARK LOCATION.

**TRANSITIONS:**

WEST APPROACH, STA. 18+01.74 TO STA. 19+17.74:  
 TAPER LT. SHLDR. FROM 4' TO 6';  
 TAPER RT. SHLDR. FROM 4' TO 8';  
 TAPER LANE WIDTH FROM 11' TO 12'

EAST APPROACH, STA. 20+81.24 TO STA. 21+97.24:  
 TAPER LT. SHLDR. FROM 6' TO 4';  
 TAPER RT. SHLDR. FROM 8' TO 4';  
 TAPER LANE WIDTH FROM 12' TO 11'



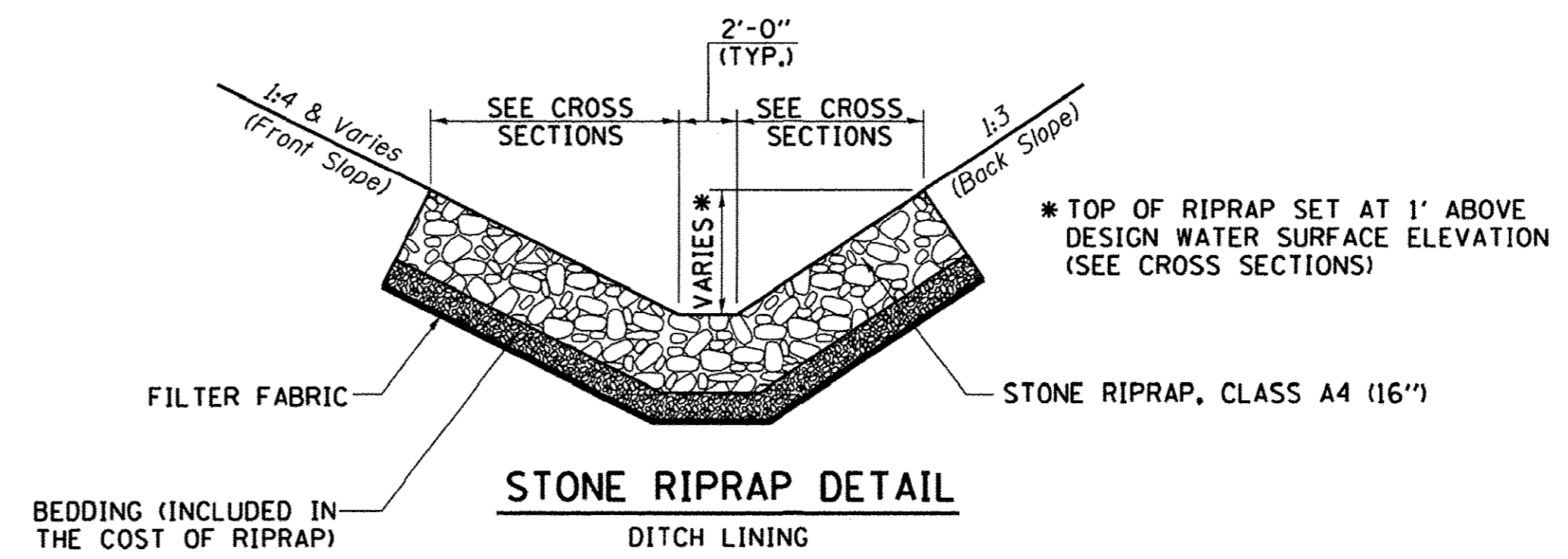
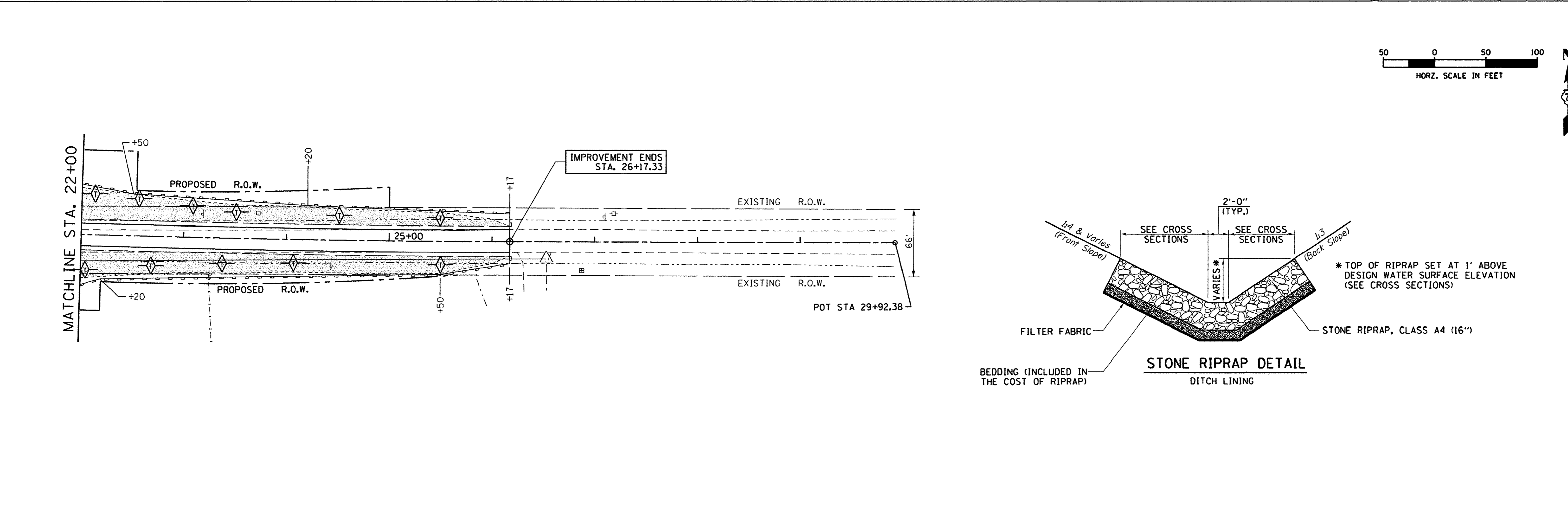
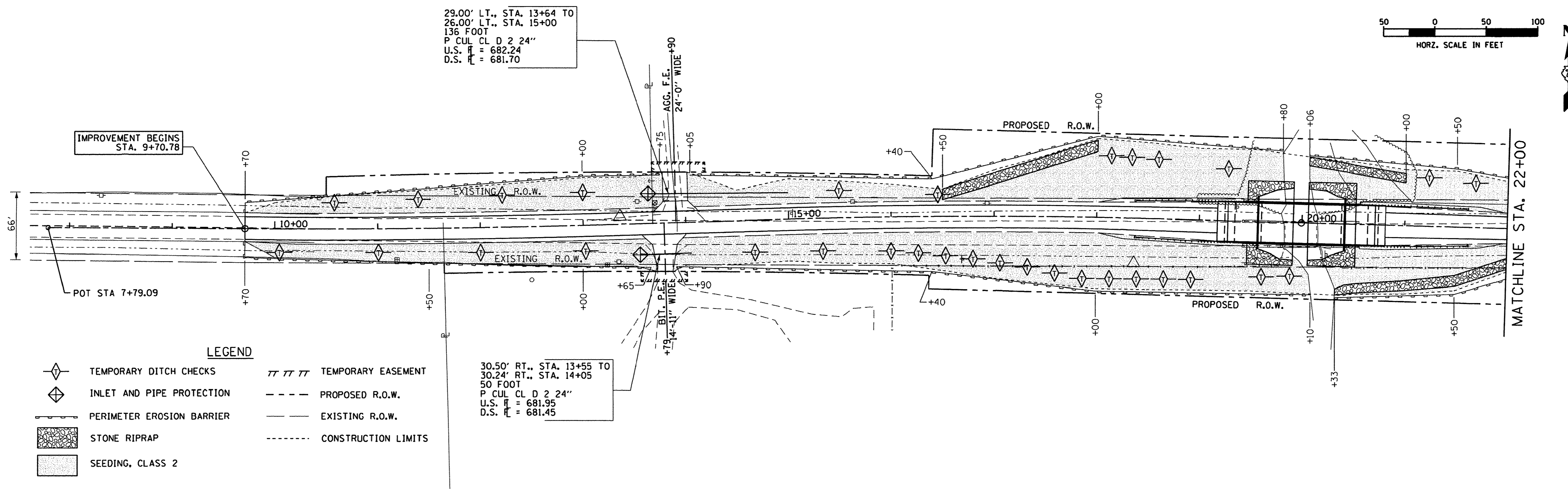
**PROPOSED STRUCTURE LAYOUT**

<b>WEST ABUTMENT</b>	<b>EAST ABUTMENT</b>
BK. OF W. ABUT. STA. 19+56.74 N1127935.08, E845876.45	BK. OF E. ABUT. STA. 20+42.24 N1127932.16, E845961.90
CL W. ABUT. STA. 19+58.57 N1127935.01, E845878.28	CL E. ABUT. STA. 20+40.41 N1127932.22, E845960.06

**SHOULDER WIDENING FOR GUARDRAIL TERMINALS (STANDARD 630301)**

- |                             |                             |
|-----------------------------|-----------------------------|
| ① STA. 18+01.74, 15' LT.    | ⑨ STA. 20+56.24, 22' LT.    |
| ② STA. 18+25.74, 19.51' LT. | ⑩ STA. 20+81.24, 22' LT.    |
| ③ STA. 19+17.74, 22' LT.    | ⑪ STA. 21+73.24, 19.62' LT. |
| ④ STA. 19+42.74, 22' LT.    | ⑫ STA. 21+97.24, 15' LT.    |
| ⑤ STA. 18+01.74, 15' RT.    | ⑬ STA. 20+56.24, 24' RT.    |
| ⑥ STA. 18+25.74, 20.15' RT. | ⑭ STA. 20+81.24, 24' RT.    |
| ⑦ STA. 19+17.74, 24' RT.    | ⑮ STA. 21+73.24, 20.04' RT. |
| ⑧ STA. 19+42.74, 24' RT.    | ⑯ STA. 21+97.24, 15' RT.    |





FILE NAME = EC_PLAN.dgn	DESIGNED - MJP	REVISED -
PLOT DATE = 2/17/2017	CHECKED - JAC	REVISED -
PLOT TIME = 3:16:57 PM	DRAWN - MJP	REVISED -
	CHECKED - JAC	REVISED -

**URS** 345 EAST ASH AVE., SUITE B  
 DECATUR, ILLINOIS 62526  
 PH. 217-875-4800

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

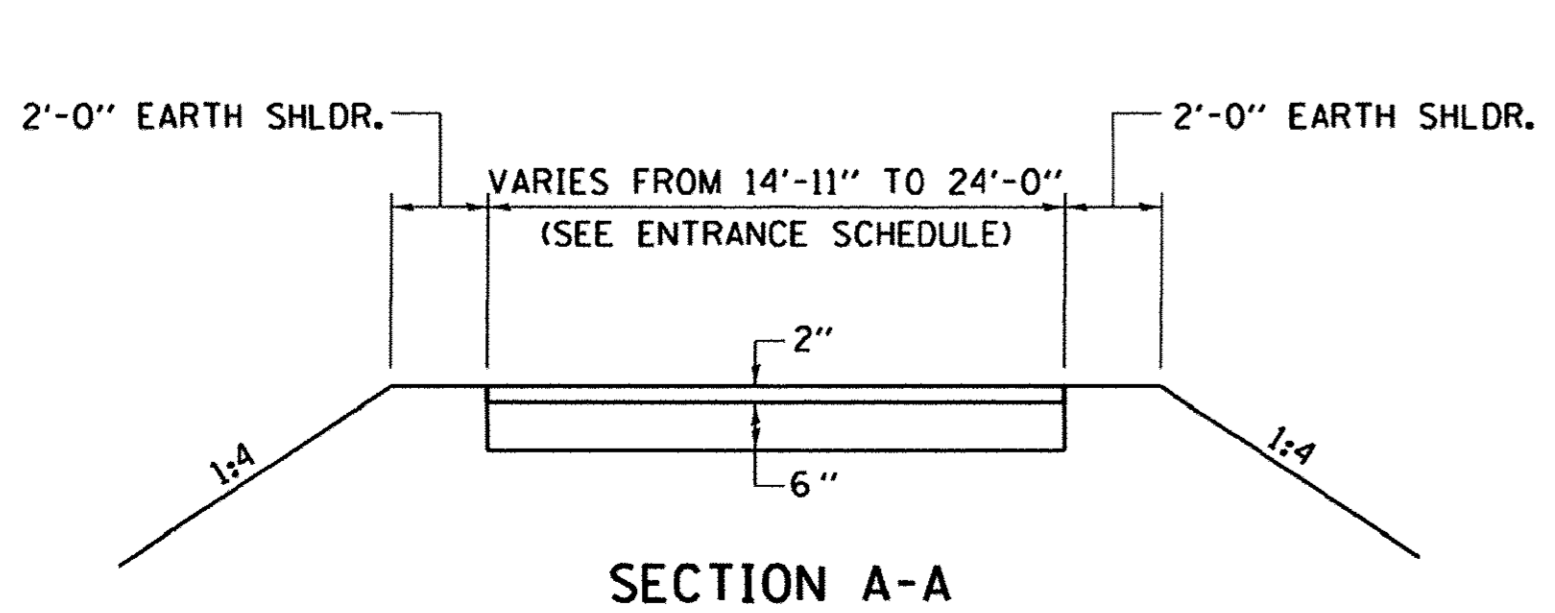
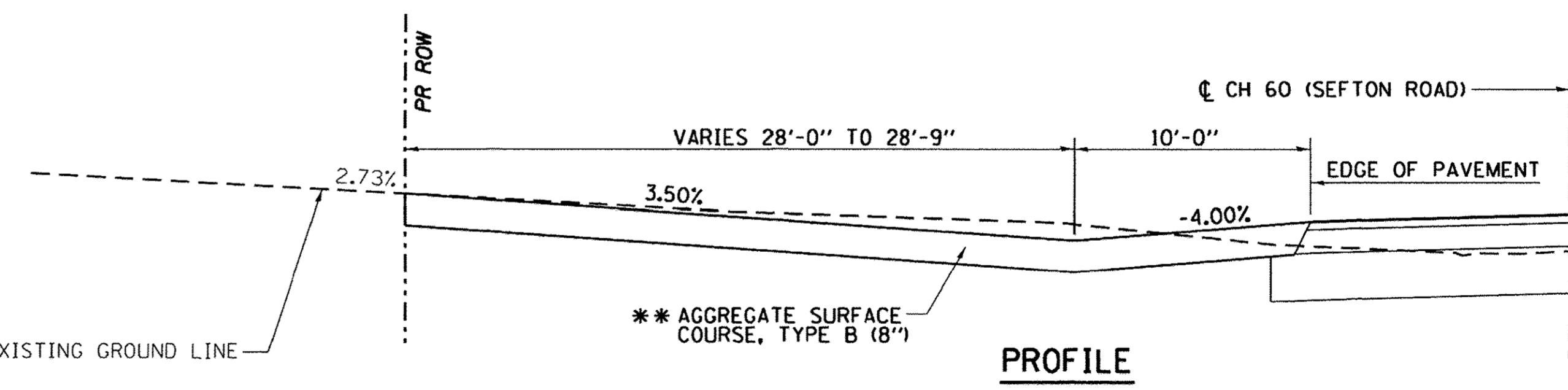
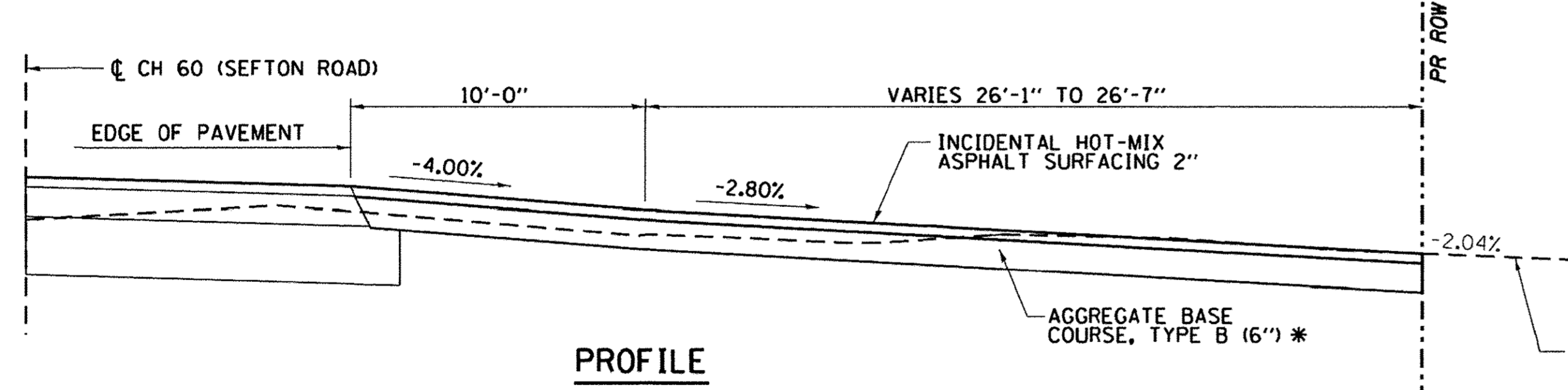
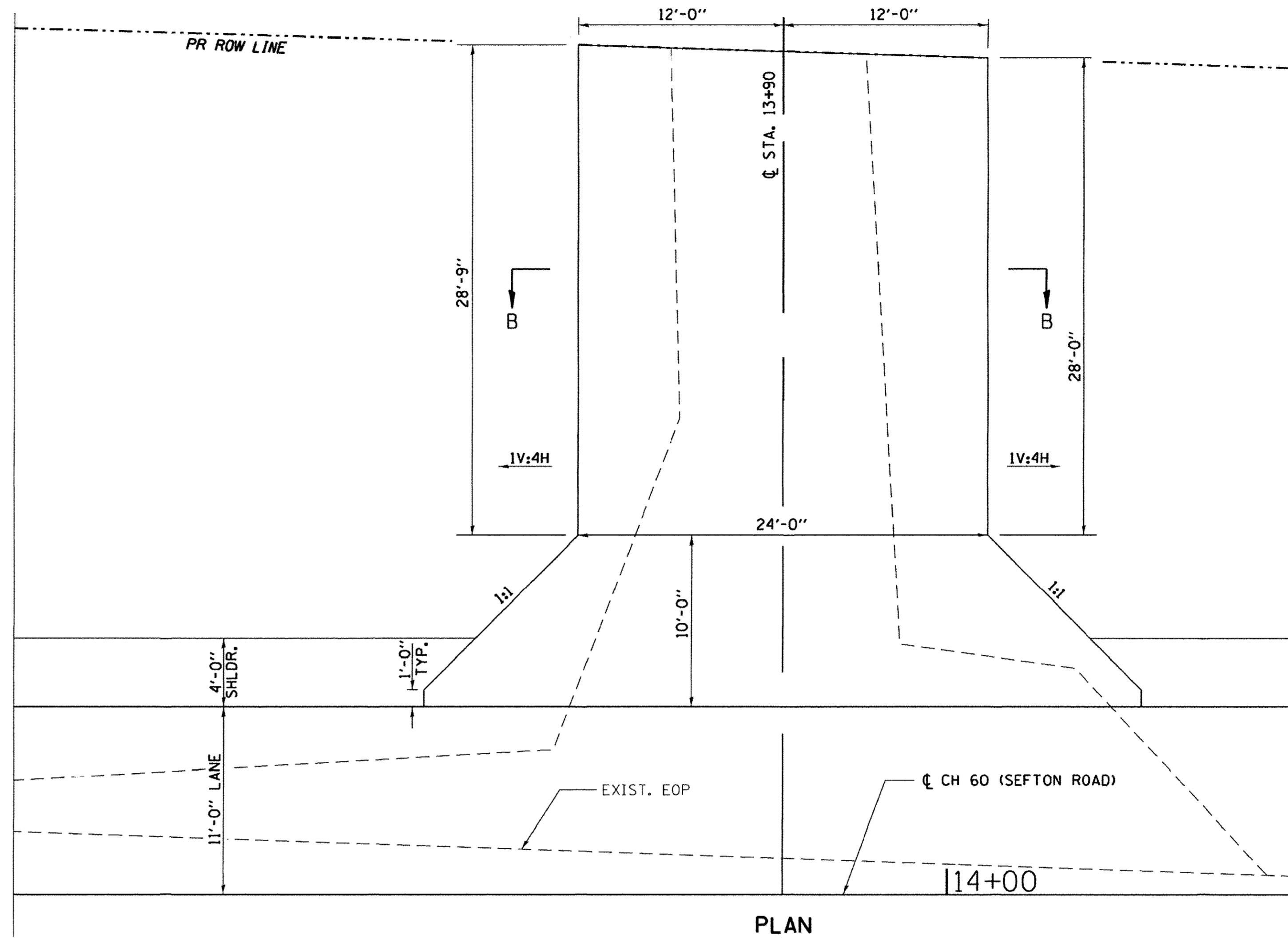
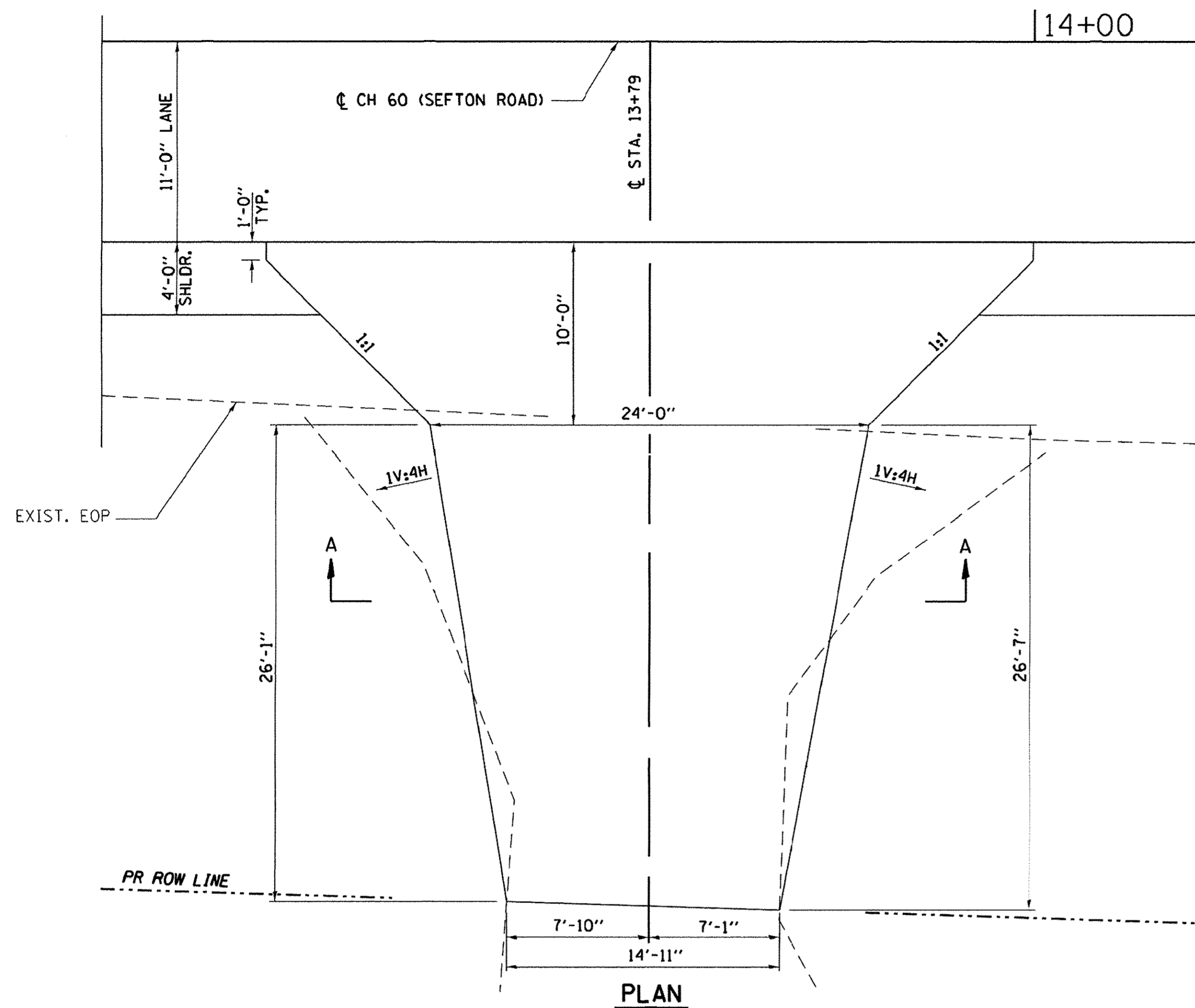
EROSION CONTROL PLAN  
 CH 60 (SEFTON ROAD) OVER BIG CREEK  
 SCALE: 1" = 50' SHEET NO. 1 OF 1 SHEETS STA. 7+79.09 TO STA. 29+92.38

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7411	07-00218-00-BR	MACON	51	11
CONTRACT NO. 95759				
ILLINOIS FED. AID PROJECT				



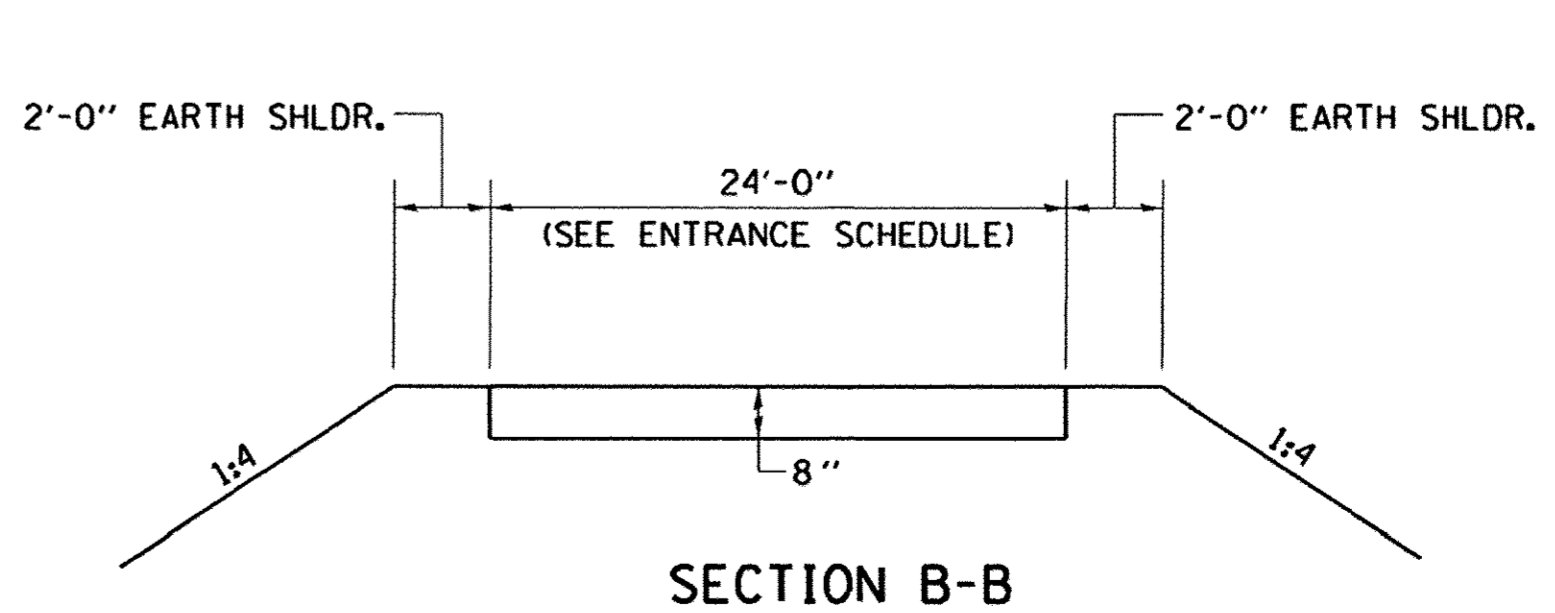
PRIVATE ENTRANCE - PE RT 13+79

FIELD ENTRANCE - FE LT 13+90



\* EARTH EXCAVATION REQUIRED FOR THE CONSTRUCTION OF THE AGGREGATE BASE COURSE SHALL BE INCLUDED IN THE COST OF AGGREGATE BASE COURSE.

\*\* EARTH EXCAVATION REQUIRED FOR THE CONSTRUCTION OF THE AGGREGATE SURFACE COURSE SHALL BE INCLUDED IN THE COST OF AGGREGATE SURFACE COURSE.



FILE NAME =	DESIGNED - MJP	REVISED -
ENTRANCE_DETAILS.dgn	CHECKED - JAC	REVISED -
PLOT DATE = 1/18/2017	DRAWN - MJP	REVISED -
PLOT TIME = 12:44:47 PM	CHECKED - JAC	REVISED -

**URS** 345 EAST ASH AVE., SUITE B  
 DECATUR, ILLINOIS 62526  
 PH. 217-875-4800

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ENTRANCE DETAILS		
CH 60 (SEFTON ROAD) OVER BIG CREEK		
SCALE: NTS	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7411	07-00218-00-BR	MACON	51	12
CONTRACT NO. 95759				
ILLINOIS FED. AID PROJECT				



Bench Mark: Spike Nail in Fence Post, Sta. 23+25, 36' Rt. Elevation 683.39.

Existing Structure: S.N. 058-3020 originally built in 1936 as C.H. 60, Section 902-B MFT at Sta. 72+96.6. It was reconstructed in 1984. The existing structure consists of a single 31'-4" span bridge with concrete deck on steel multi-beam superstructure supported by timber abutments and timber wingwalls. The existing structure is 32'-5" back to back of abutments and 25'-0" wide out-to-out of deck (23'-10" clear width between curbs). Existing structure is to be removed and replaced. The existing roadway will be closed during construction.

No salvage.

**DESIGN SCOUR ELEVATION TABLE**

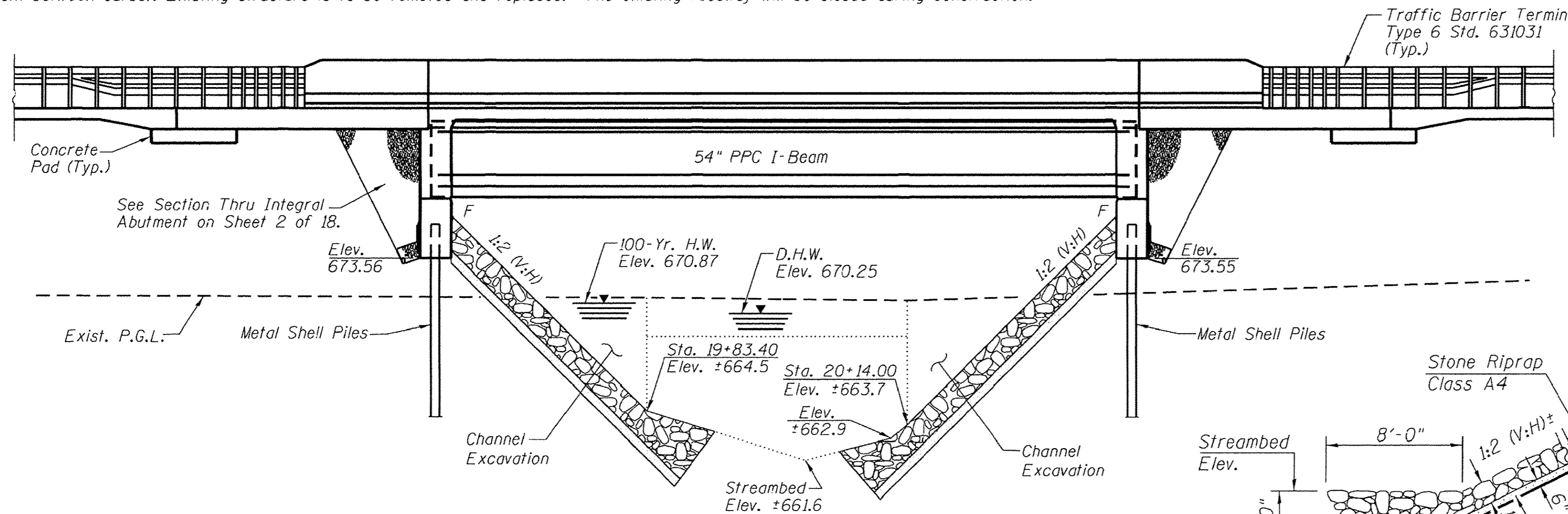
Design Scour Elevation (ft.)	W. Abut.	E. Abut.
	673.56	673.55

**WATERWAY INFORMATION**

Drainage Area = 7.3 Sq. Mi. Existing Low Grade Elev. 670.98 @ Sta. 19+50  
Proposed Low Grade Elev. 682.12 @ Sta. 23+00

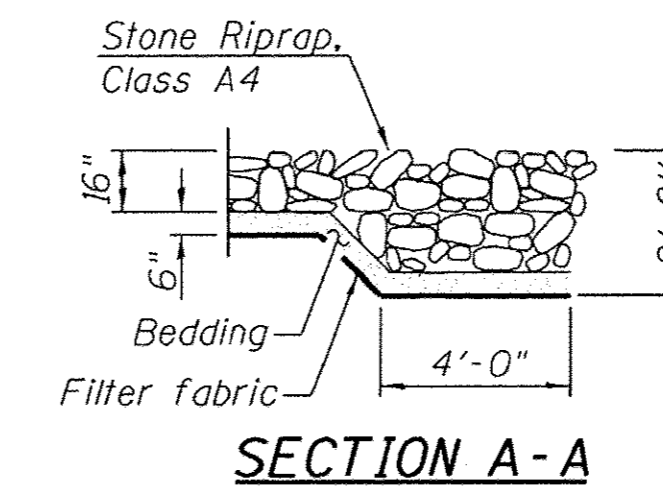
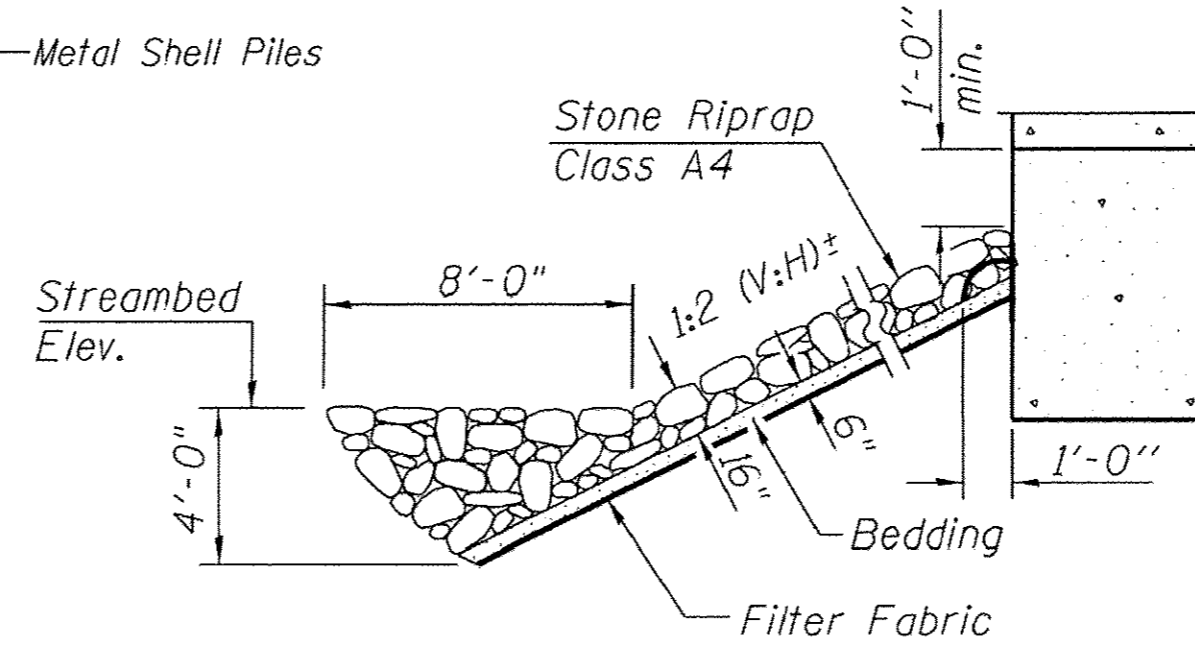
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head-Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
	10	888	184	256	669.64	0.40	0.09	670.04	669.73
Design	30	1238	184	286	670.25	0.85	0.16	671.10	670.41
Base	100	1670	184	320	670.87	1.70	0.36	672.57	671.23
Max. Calc.	500	2250	184	361	671.59	2.30	0.61	673.89	672.20

Low Beam Elev. (Prop.) = 677.06



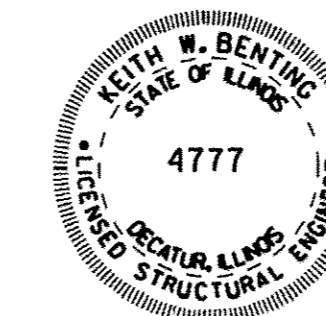
**ELEVATION**  
(Looking North - Downstream)

**STONE RIPRAP ANCHOR DETAIL**



**SECTION A-A**

ICERTIFY THAT TO THE BEST OF KNOWLEDGE, INFORMATION AND BELIEF, THIS BRIDGE DESIGN IS STRUCTURALLY ADEQUATE FOR THE DESIGN LOADING SHOWN ON THE PLANS. THE DESIGN IS AN ECONOMICAL ONE FOR THE STYLE OF STRUCTURE AND COMPLIES WITH REQUIREMENTS OF THE CURRENT AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES.

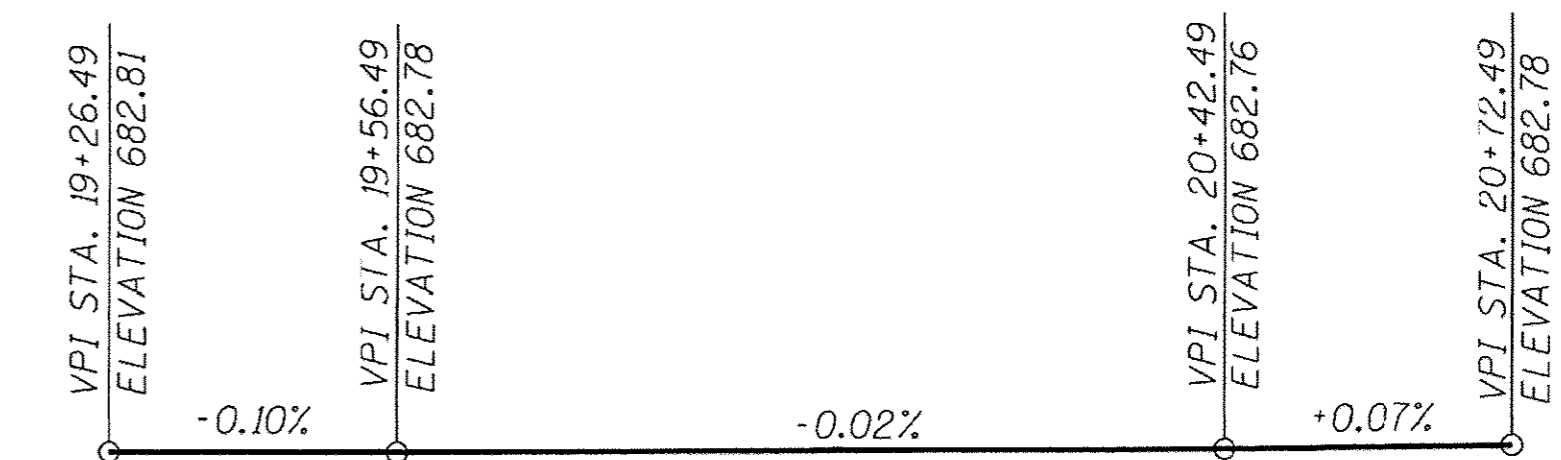


DATE: February 22, 2017

Keith W. Bunting  
KEITH W. BUNTING  
ILL. STRUCTURAL NO. 4777

11/30/2018  
EXP. DATE:

**PROFILE GRADE**  
(Along Center Roadway)



**BIG CREEK**  
BUILT 2015 BY MACON COUNTY  
SECTION 07-00218-00-BR  
F.A.U. RT. 7411 STA. 19+99.49  
STR. NO. 058-3399 LOADING HL-93  
EMMETT C. SEFTON BRIDGE

**NAME PLATE**  
(See Std. 515001)

**DESIGN SPECIFICATIONS**  
2012 AASHTO LRFD Bridge Design Specifications  
6th Edition, with 2013 Interim Revisions

**LOADING HL 93**  
Allow 50#/sq. ft. for future wearing surface.

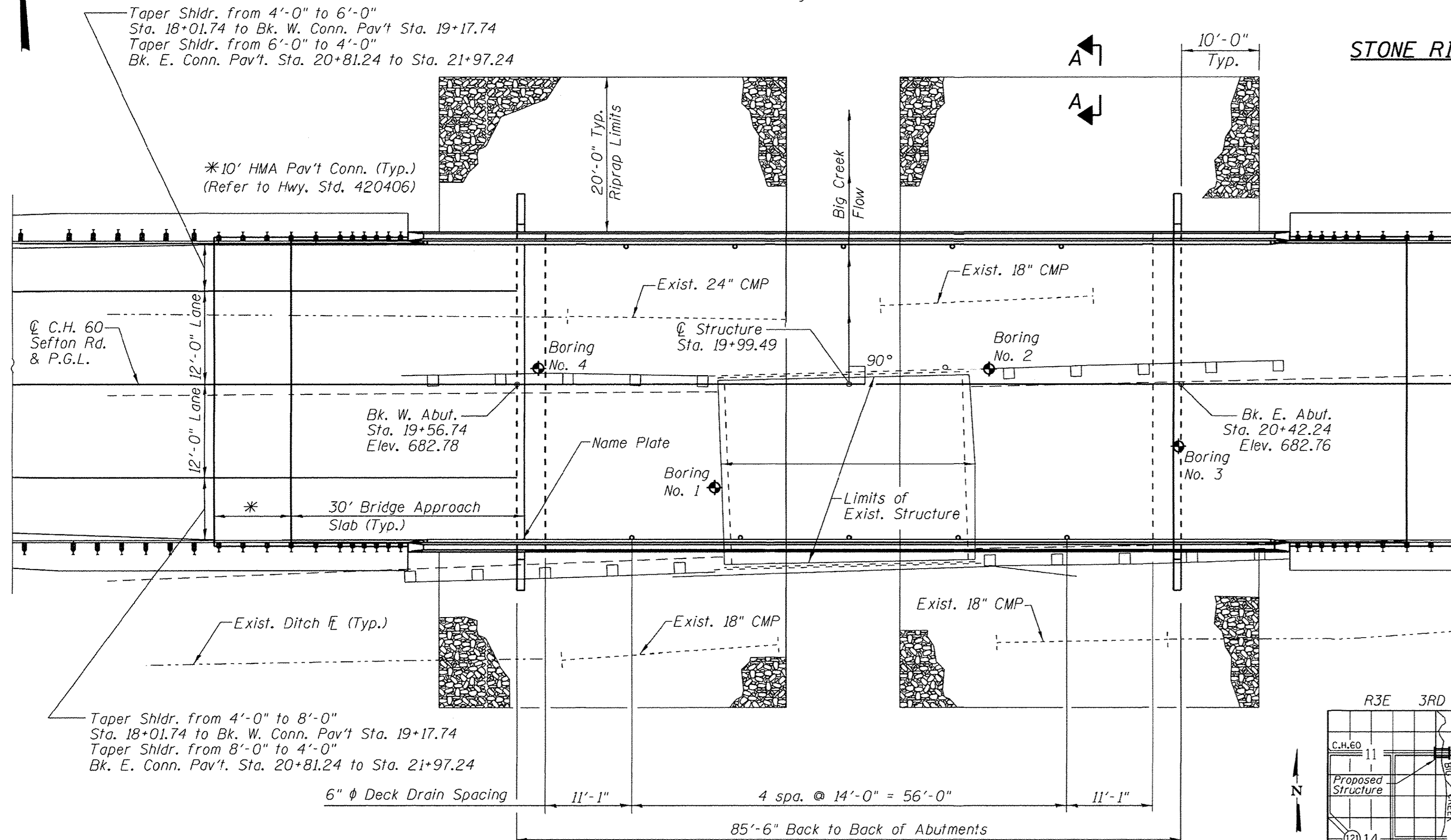
**DESIGN STRESSES**  
FIELD UNITS

$f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (reinforcement)  
**PRECAST PRESTRESSED UNITS**  
 $f'_c = 6,000$  psi  
 $f'_{ci} = 5,000$  psi  
 $f_{pu} = 270,000$  psi ( $1/2"$   $\phi$  low lax. strands)  
 $f_{pbl} = 201,960$  psi ( $1/2"$   $\phi$  low lax. strands)

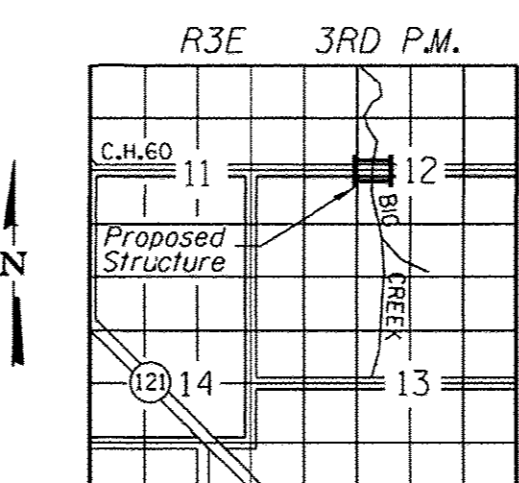
**SEISMIC DATA**

Seismic Performance Zone (SPZ) = 2  
Design Spectral Acceleration at 1.0 sec. ( $S_{p1}$ ) = 0.161g  
Design Spectral Acceleration at 0.2 sec. ( $S_{p5}$ ) = 0.304g  
Soil Site Class = D

**GENERAL PLAN & ELEVATION**  
**FAU 7411 (SEFTON ROAD) OVER BIG CREEK**  
**SECTION 07-00218-00-BR**  
**MACON COUNTY**  
**STATION 19+99.49**  
**STRUCTURE NO. 058-3399**



**PLAN**



**LOCATION SKETCH**

FILE NAME = GPE.dgn	DESIGNED - MJP	REVISED -
PLOT DATE = 2/21/2017	DRAWN - MJP	REVISED -
PLOT TIME = 3:22:21 PM	CHECKED - KWB	REVISED -
	DATE - 1/16/17	REVISED -

**URS** 345 EAST ASH AVE., SUITE B  
DECATUR, ILLINOIS 62526  
PH. 217-875-4800

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION**  
**STRUCTURE NO. 058-3399**

SHEET 1 OF 18 SHEETS

F.A.U. RT. 7411	SECTION 07-00218-00-BR	COUNTY MACON	TOTAL SHEETS 51	SHEET NO. 13
			CONTRACT NO. 95759	
ILLINOIS FED. AID PROJECT				



**GENERAL NOTES**

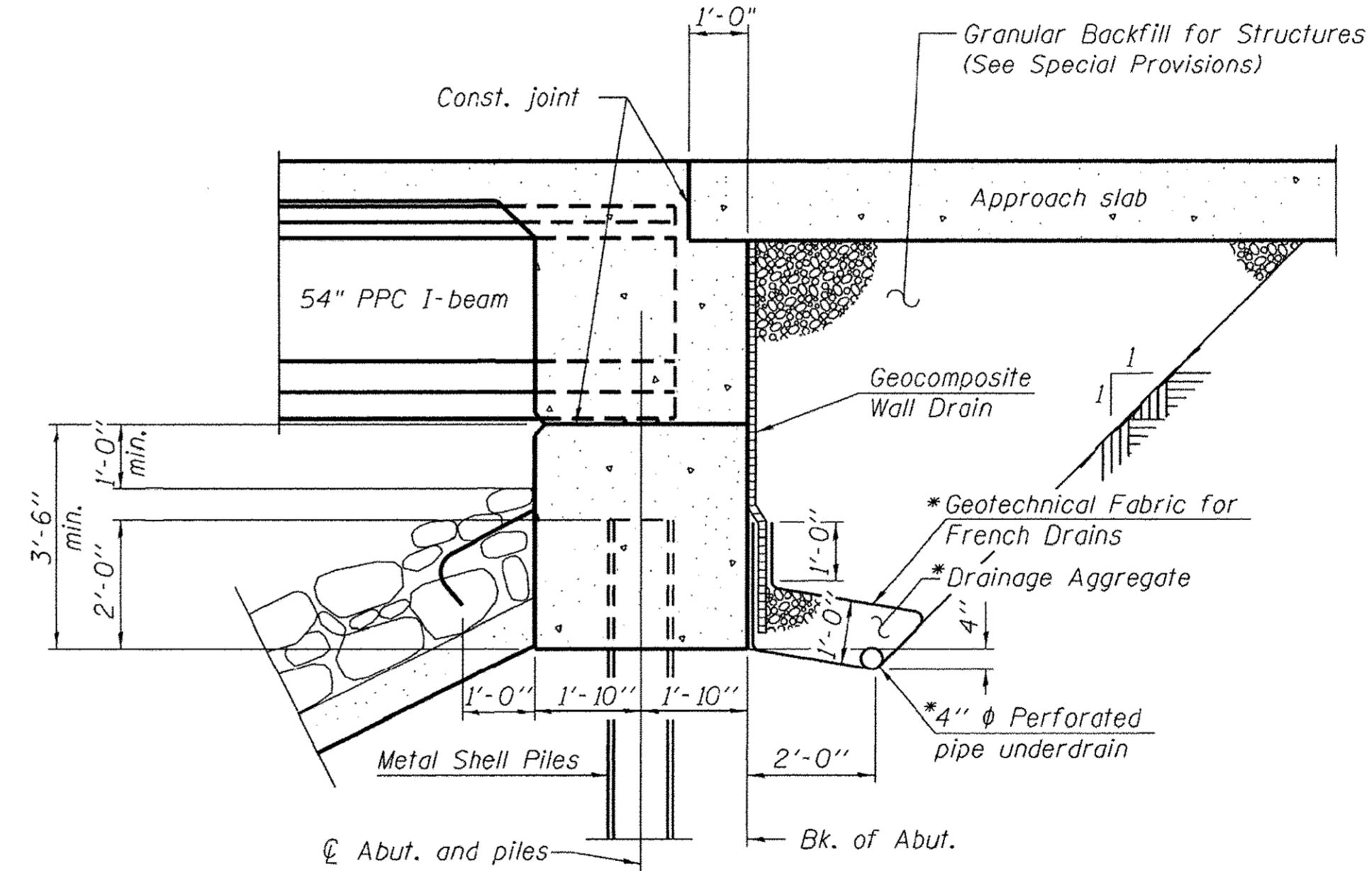
1. Reinforcement bars designated (E) shall be epoxy coated.
2. Layout of slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
3. The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
4. Slipforming of the parapets is not allowed.

**INDEX OF SHEETS**

1. General Plan and Elevation
2. General Notes, Bill of Material, Index of Sheets & Abut. Section
3. Top of Slab Elevations
4. Top of Slab Elevations
5. Top of Approach Slab Elevations
6. Superstructure
7. Superstructure Details
8. Diaphragm Details
9. Bridge Approach Slab Details - Sheet 1 of 2
10. Bridge Approach Slab Details - Sheet 2 of 2
11. Framing Plan
12. 54" PPC I-Beam
13. 54" PPC I-Beam Details
14. West Abutment
15. East Abutment
16. Metal Shell Pile Details
17. Soil Boring Logs
18. Soil Boring Logs

**BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Floor Drains	Each	10		10
Stone Riprap, Class A4	Ton		508	508
Filter Fabric	Sq. Yd.		758	758
Removal of Existing Structures	Each			1
Concrete Structures	Cu. Yd.		75.8	75.8
Concrete Superstructure	Cu. Yd.	163.0		163.0
Bridge Deck Grooving	Sq. Yd.	577		577
Protective Coat	Sq. Yd.	704		704
Concrete Superstructure (Approach Slab)	Cu. Yd.	113.1		113.1
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 54 In.	Foot	497		497
Reinforcement Bars, Epoxy Coated	Pound	68,480	13,010	81,490
Furnishing Metal Shell Piles 12" x 0.250"	Foot		450	450
Driving Piles	Foot		450	450
Test Pile Metal Shells	Each		2	2
Name Plates	Each		1	1
Geocomposite Wall Drain	Sq. Yd.		73	73
Pipe Underdrains for Structures 4"	Foot		180	180
Granular Backfill for Structures	Cu. Yd.		124.7	124.7



**SECTION THRU INTEGRAL ABUTMENT**

(Horiz. dim. @ Rt. L's)

\*Included in the cost of Pipe Underdrains for Structures. (See Special Provisions)

Note:  
All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

FILE NAME =	DESIGNED - MJP	REVISED -
GEN_NOTES.&BILL.dgn	DRAWN - MJP	REVISED -
PLOT DATE = 1/18/2017	CHECKED - KWB	REVISED -
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**URS** 345 EAST ASH AVE., SUITE B  
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PH. 217-875-4800

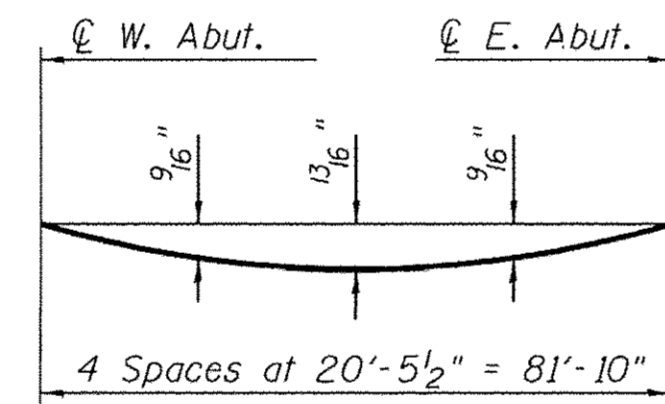
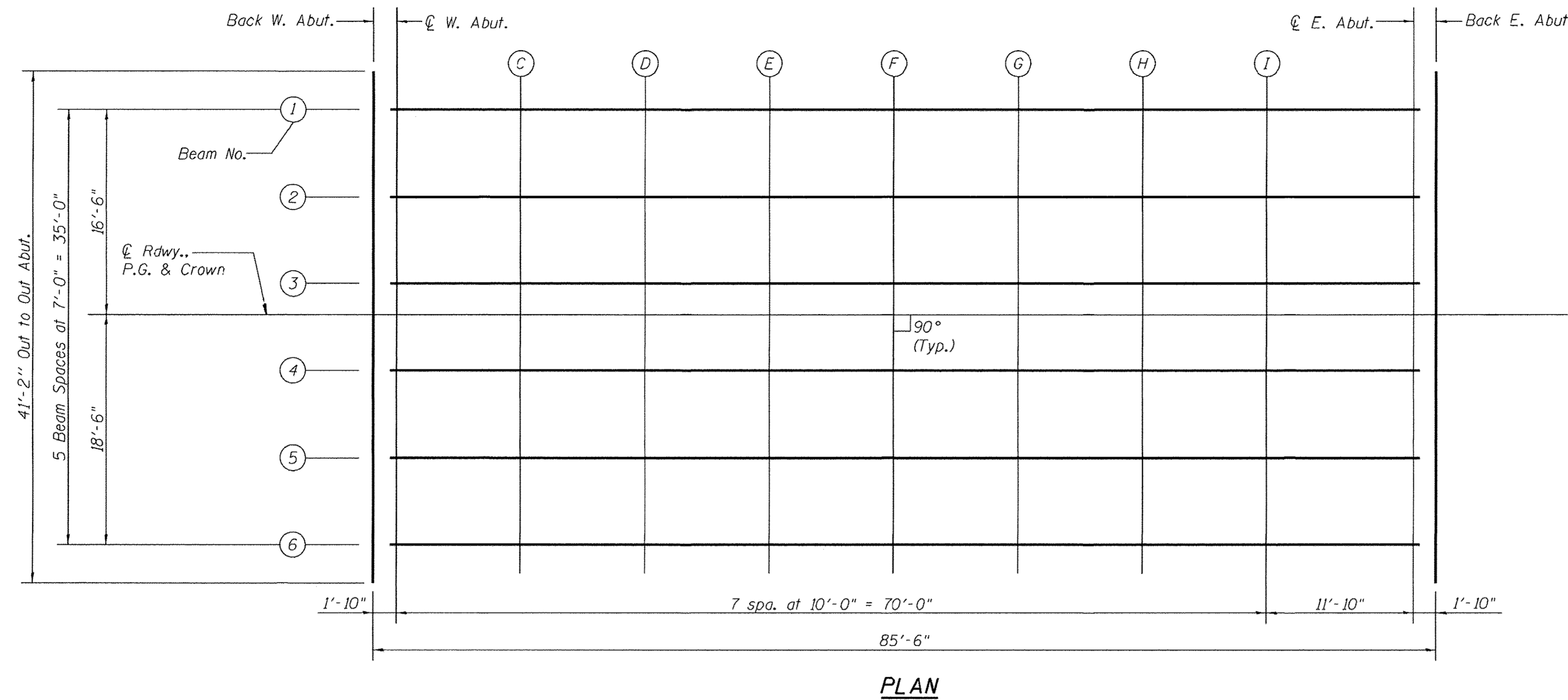
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, BILL OF MATERIAL, INDEX OF SHEETS & ABUT. SECTION  
STRUCTURE NO. 058-3399

SHEET 2 OF 18 SHEETS

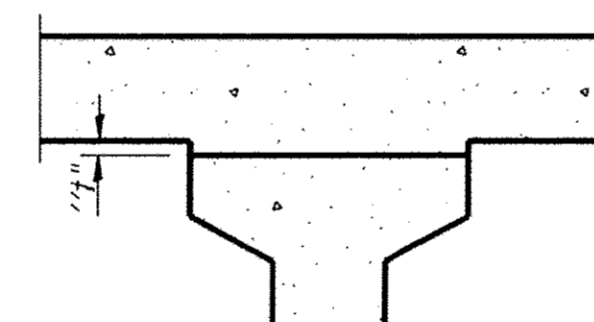
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7411	07-00218-00-BR	MACON	51	14
ILLINOIS FED. AID PROJECT			CONTRACT NO. 95759	





**DEAD LOAD DEFLECTION DIAGRAM**  
*(Includes weight of concrete, excluding beams).*

*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 on Sheet 4 of 18.



To determine "t": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflections" shown on Sheet 4 of 18, minus slab thickness, equals the fillet heights "t" above top flanges of beams.

**FILLET HEIGHTS**

PI-E 7-1-10

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PLOT DATE = 1/18/2017	DRAWN - MJP	REVISED -
PLOT TIME = 12:55:30 PM	CHECKED - KWB	REVISED -
	DATE - 10/29/14	REVISED -

**URS** 345 EAST ASH AVE., SUITE B  
 DECATUR, ILLINOIS 62526  
 PH. 217-875-4800

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS**  
**STRUCTURE NO. 058-3399**

SHEET 3 OF 18 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7411	07-00218-00-BR	MACON	51	15
ILLINOIS FED. AID PROJECT			CONTRACT NO. 95759	



**BEAM 1**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	19+56.74	-16.50	682.50	682.50
W. Abut. CL Brg.	19+58.57	-16.50	682.50	682.50
C	19+68.57	-16.50	682.50	682.52
D	19+78.57	-16.50	682.49	682.54
E	19+88.57	-16.50	682.49	682.55
F	19+98.57	-16.50	682.49	682.56
G	20+08.57	-16.50	682.49	682.55
H	20+18.57	-16.50	682.49	682.54
I	20+28.57	-16.50	682.48	682.51
E. Abut. CL Brg.	20+40.41	-16.50	682.48	682.48
Bk. E. Abut.	20+42.24	-16.50	682.48	682.48

**BEAM 2**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	19+56.74	-9.50	682.63	682.63
W. Abut. CL Brg.	19+58.57	-9.50	682.63	682.63
C	19+68.57	-9.50	682.63	682.65
D	19+78.57	-9.50	682.63	682.67
E	19+88.57	-9.50	682.63	682.69
F	19+98.57	-9.50	682.62	682.69
G	20+08.57	-9.50	682.62	682.68
H	20+18.57	-9.50	682.62	682.67
I	20+28.57	-9.50	682.62	682.65
E. Abut. CL Brg.	20+40.41	-9.50	682.62	682.62
Bk. E. Abut.	20+42.24	-9.50	682.61	682.61

**BEAM 3**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	19+56.74	-2.50	682.74	682.74
W. Abut. CL Brg.	19+58.57	-2.50	682.74	682.74
C	19+68.57	-2.50	682.74	682.76
D	19+78.57	-2.50	682.74	682.78
E	19+88.57	-2.50	682.73	682.81
F	19+98.57	-2.50	682.73	682.80
G	20+08.57	-2.50	682.73	682.79
H	20+18.57	-2.50	682.73	682.78
I	20+28.57	-2.50	682.73	682.76
E. Abut. CL Brg.	20+40.41	-2.50	682.72	682.72
Bk. E. Abut.	20+42.24	-2.50	682.72	682.72

**☉ Rdwy., P.G., & Crown**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	19+56.74	0.00	682.78	682.78
W. Abut. CL Brg.	19+58.57	0.00	682.78	682.78
C	19+68.57	0.00	682.78	682.80
D	19+78.57	0.00	682.78	682.82
E	19+88.57	0.00	682.77	682.83
F	19+98.57	0.00	682.77	682.84
G	20+08.57	0.00	682.77	682.83
H	20+18.57	0.00	682.77	682.82
I	20+28.57	0.00	682.77	682.80
E. Abut. CL Brg.	20+40.41	0.00	682.76	682.76
Bk. E. Abut.	20+42.24	0.00	682.76	682.76

**BEAM 4**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	19+56.74	4.50	682.71	682.71
W. Abut. CL Brg.	19+58.57	4.50	682.71	682.71
C	19+68.57	4.50	682.71	682.73
D	19+78.57	4.50	682.71	682.75
E	19+88.57	4.50	682.70	682.76
F	19+98.57	4.50	682.70	682.77
G	20+08.57	4.50	682.70	682.76
H	20+18.57	4.50	682.70	682.75
I	20+28.57	4.50	682.70	682.72
E. Abut. CL Brg.	20+40.41	4.50	682.69	682.69
Bk. E. Abut.	20+42.24	4.50	682.69	682.69

**BEAM 5**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	19+56.74	11.50	682.60	682.60
W. Abut. CL Brg.	19+58.57	11.50	682.60	682.60
C	19+68.57	11.50	682.60	682.62
D	19+78.57	11.50	682.60	682.64
E	19+88.57	11.50	682.59	682.65
F	19+98.57	11.50	682.59	682.66
G	20+08.57	11.50	682.59	682.65
H	20+18.57	11.50	682.59	682.64
I	20+28.57	11.50	682.59	682.62
E. Abut. CL Brg.	20+40.41	11.50	682.58	682.58
Bk. E. Abut.	20+42.24	11.50	682.58	682.58

**BEAM 6**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	19+56.74	18.50	682.46	682.46
W. Abut. CL Brg.	19+58.57	18.50	682.46	682.46
C	19+68.57	18.50	682.45	682.48
D	19+78.57	18.50	682.45	682.50
E	19+88.57	18.50	682.45	682.51
F	19+98.57	18.50	682.45	682.51
G	20+08.57	18.50	682.45	682.51
H	20+18.57	18.50	682.44	682.49
I	20+28.57	18.50	682.44	682.47
E. Abut. CL Brg.	20+40.41	18.50	682.44	682.44
Bk. E. Abut.	20+42.24	18.50	682.44	682.44

PI-EI 7-1-10

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**URS** 345 EAST ASH AVE., SUITE B  
 DECATUR, ILLINOIS 62526  
 PH. 217-875-4800

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS**  
**STRUCTURE NO. 058-3399**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7411	07-00218-00-BR	MACON	51	16
			CONTRACT NO. 95759	
ILLINOIS FED. AID PROJECT				



**FACE OF NORTH PARAPET**

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	19+26.74	-18.00	682.50
A	19+36.74	-18.00	682.49
B	19+46.74	-18.00	682.48
E. End of W. Appr. Slab	19+56.74	-18.00	682.47
W. End of E. Appr. Slab	20+42.24	-18.00	682.45
J	20+52.24	-18.00	682.46
K	20+62.24	-18.00	682.46
E. End of E. Appr. Slab	20+72.24	-18.00	682.47

**NORTH EDGE OF PAVEMENT**

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	19+26.74	-12.00	682.62
A	19+36.74	-12.00	682.61
B	19+46.74	-12.00	682.60
E. End of W. Appr. Slab	19+56.74	-12.00	682.59
W. End of E. Appr. Slab	20+42.24	-12.00	682.58
J	20+52.24	-12.00	682.58
K	20+62.24	-12.00	682.59
E. End of E. Appr. Slab	20+72.24	-12.00	682.59

**☉ Rdwy., P.G., & Crown**

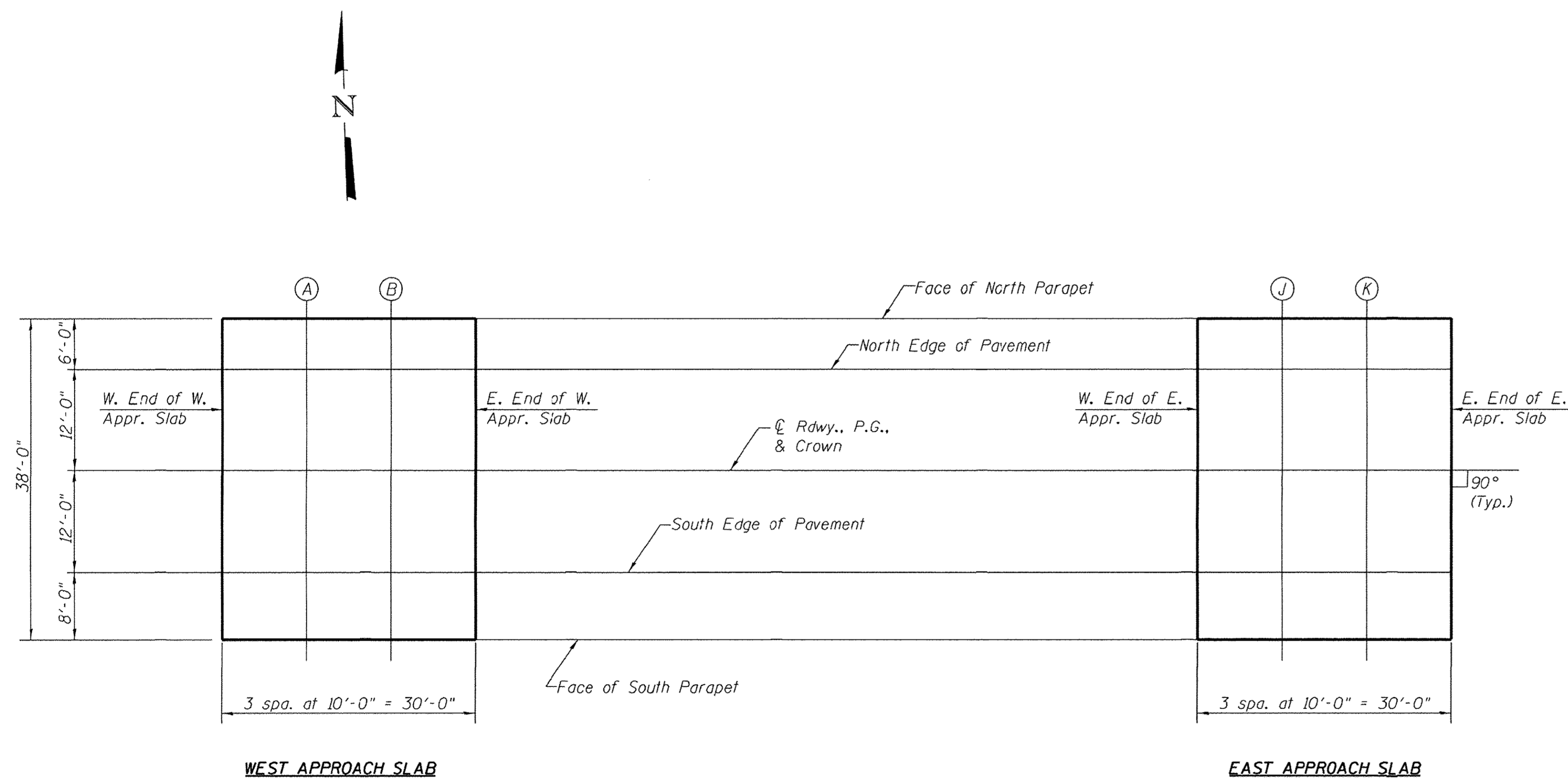
Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	19+26.74	0.00	682.81
A	19+36.74	0.00	682.80
B	19+46.74	0.00	682.79
E. End of W. Appr. Slab	19+56.74	0.00	682.78
W. End of E. Appr. Slab	20+42.24	0.00	682.76
J	20+52.24	0.00	682.77
K	20+62.24	0.00	682.77
E. End of E. Appr. Slab	20+72.24	0.00	682.78

**SOUTH EDGE OF PAVEMENT**

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	19+26.74	12.00	682.62
A	19+36.74	12.00	682.61
B	19+46.74	12.00	682.60
E. End of W. Appr. Slab	19+56.74	12.00	682.59
W. End of E. Appr. Slab	20+42.24	12.00	682.58
J	20+52.24	12.00	682.58
K	20+62.24	12.00	682.59
E. End of E. Appr. Slab	20+72.24	12.00	682.59

**FACE OF SOUTH PARAPET**

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	19+26.74	20.00	682.46
A	19+36.74	20.00	682.45
B	19+46.74	20.00	682.44
E. End of W. Appr. Slab	19+56.74	20.00	682.43
W. End of E. Appr. Slab	20+42.24	20.00	682.41
J	20+52.24	20.00	682.41
K	20+62.24	20.00	682.42
E. End of E. Appr. Slab	20+72.24	20.00	682.43



**PLAN**

E-AS 11-22-16

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PLOT TIME = 12:57:13 PM	CHECKED - KWB	REVISED -
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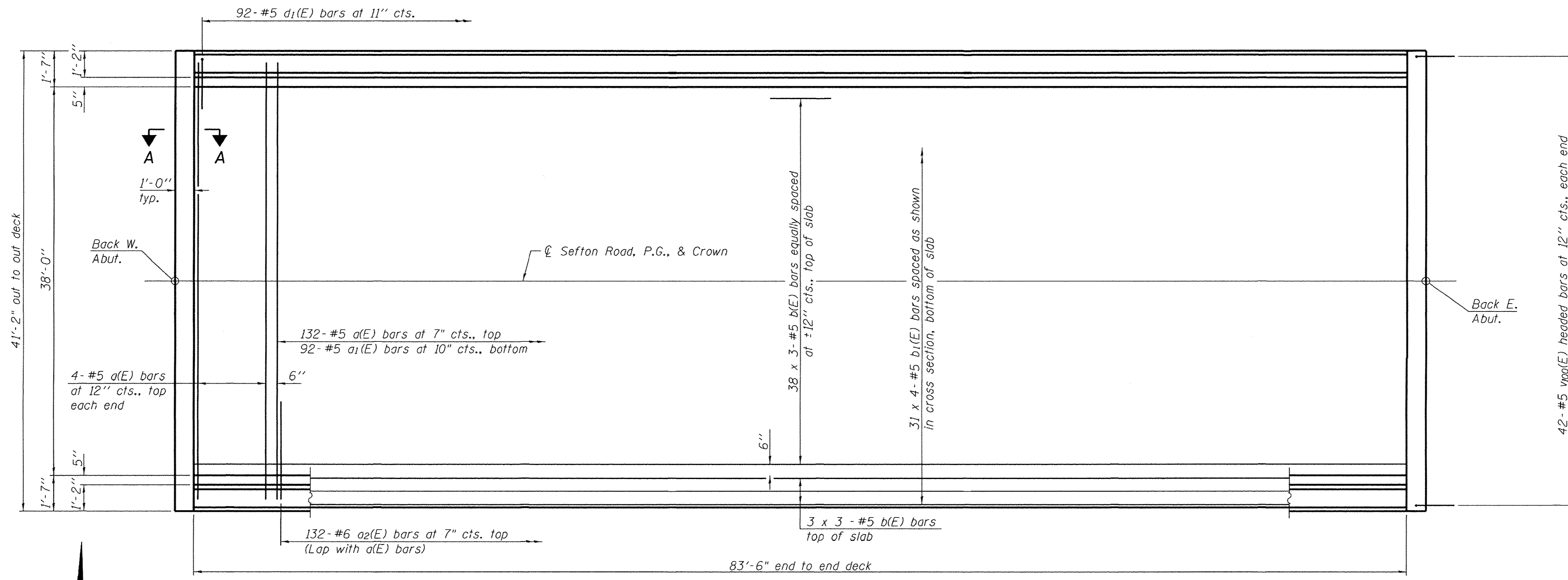
**URS** 345 EAST ASH AVE., SUITE B  
 DECATUR, ILLINOIS 62526  
 PH. 217-875-4800

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**TOP OF APPROACH SLAB ELEVATIONS**  
**STRUCTURE NO. 058-3399**

SHEET 5 OF 18 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7411	07-00218-00-BR	MACON	51	17
CONTRACT NO. 95759				
ILLINOIS FED. AID PROJECT				

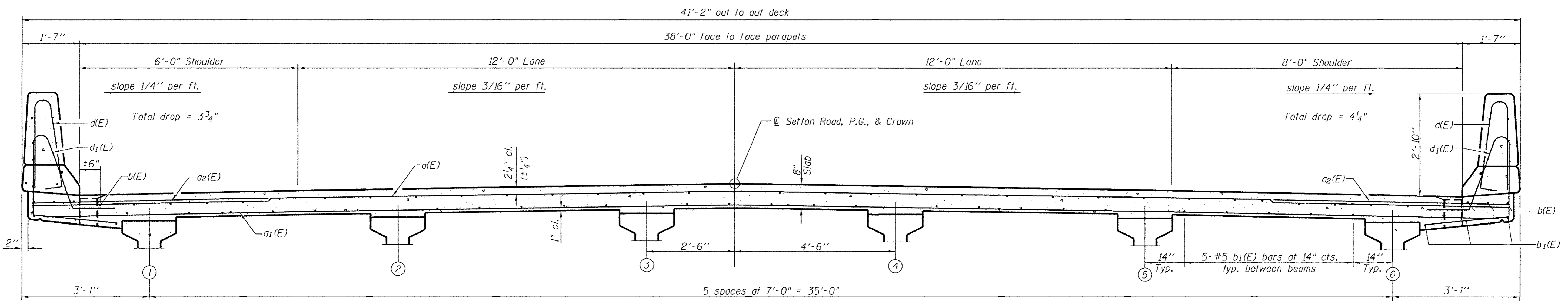


PLAN

**MINIMUM BAR LAP**

#5 Bar = 3'-6"

Notes:  
 See Sheet 7 of 18 for superstructure details and Bill of Material.  
 Bars indicated thus 38 x 3-#5 etc. indicates 38 lines of bars with 3 lengths per line.  
 See Sheet 7 of 18 for parapet reinforcement.  
 See Sheet 8 of 18 for Section A-A.



**CROSS SECTION**  
(Looking East)

SI-13654-1-0 10-7-16

FILE NAME = SUPERSTRUCTURE.dgn	DESIGNED - MJP	REVISED -
PLOT DATE = 1/18/2017	DRAWN - MJP	REVISED -
PLOT TIME = 12:59:01 PM	CHECKED - KWB	REVISED -
	DATE - 1/16/17	REVISED -

**URS** 345 EAST ASH AVE., SUITE B  
 DECATUR, ILLINOIS 62526  
 PH. 217-875-4800

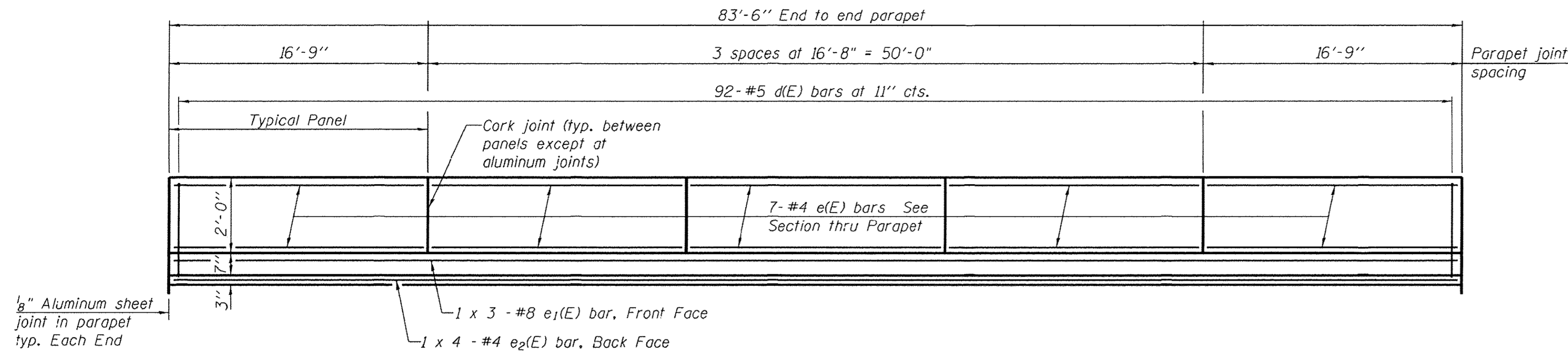
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE**  
**STRUCTURE NO. 058-3399**

SHEET 6 OF 18 SHEETS

F.A.U. RTE. 7411	SECTION 07-00218-00-BR	COUNTY MACON	TOTAL SHEETS 51	SHEET NO. 18
CONTRACT NO. 95759				
ILLINOIS FED. AID PROJECT				

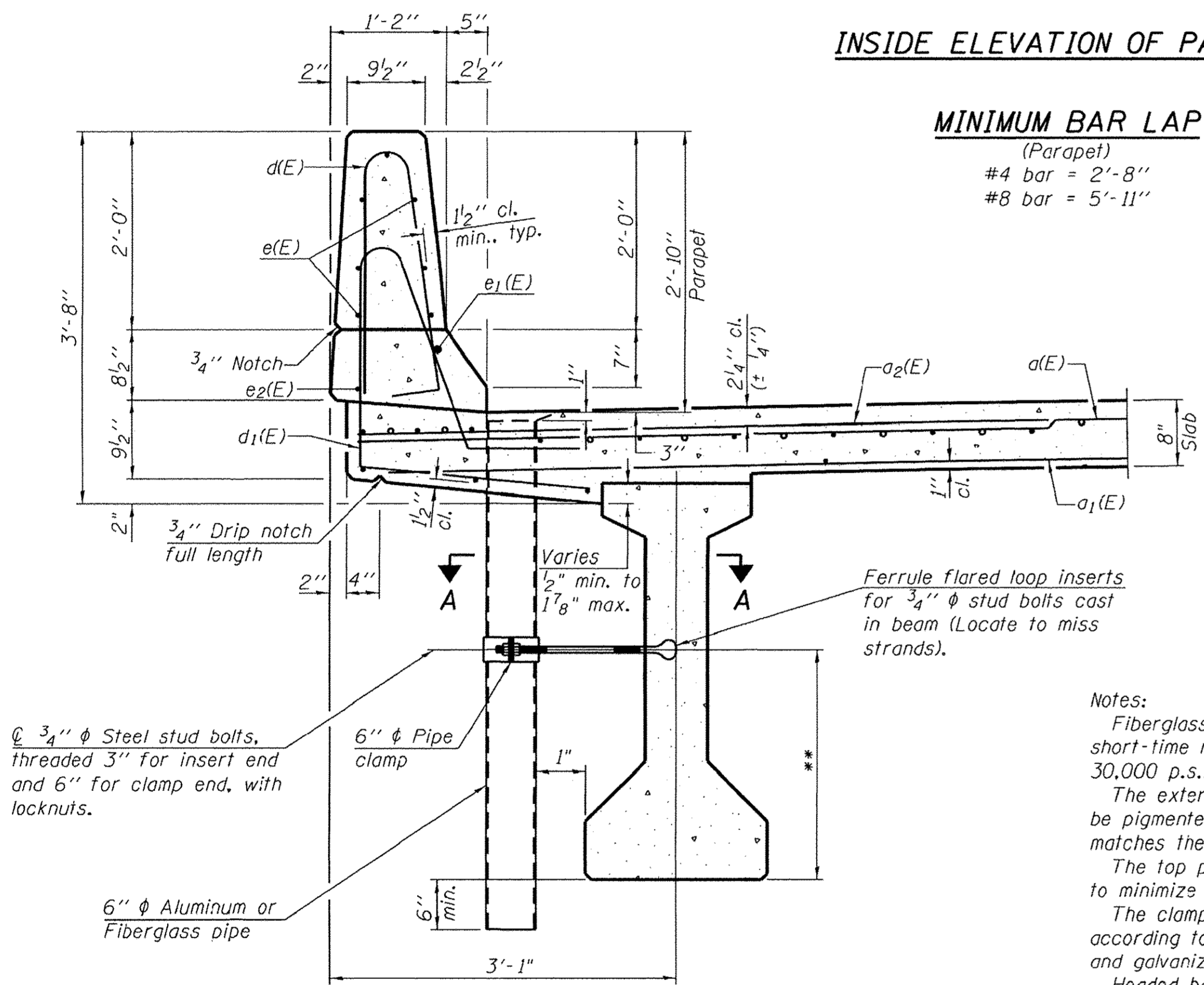




**INSIDE ELEVATION OF PARAPET**

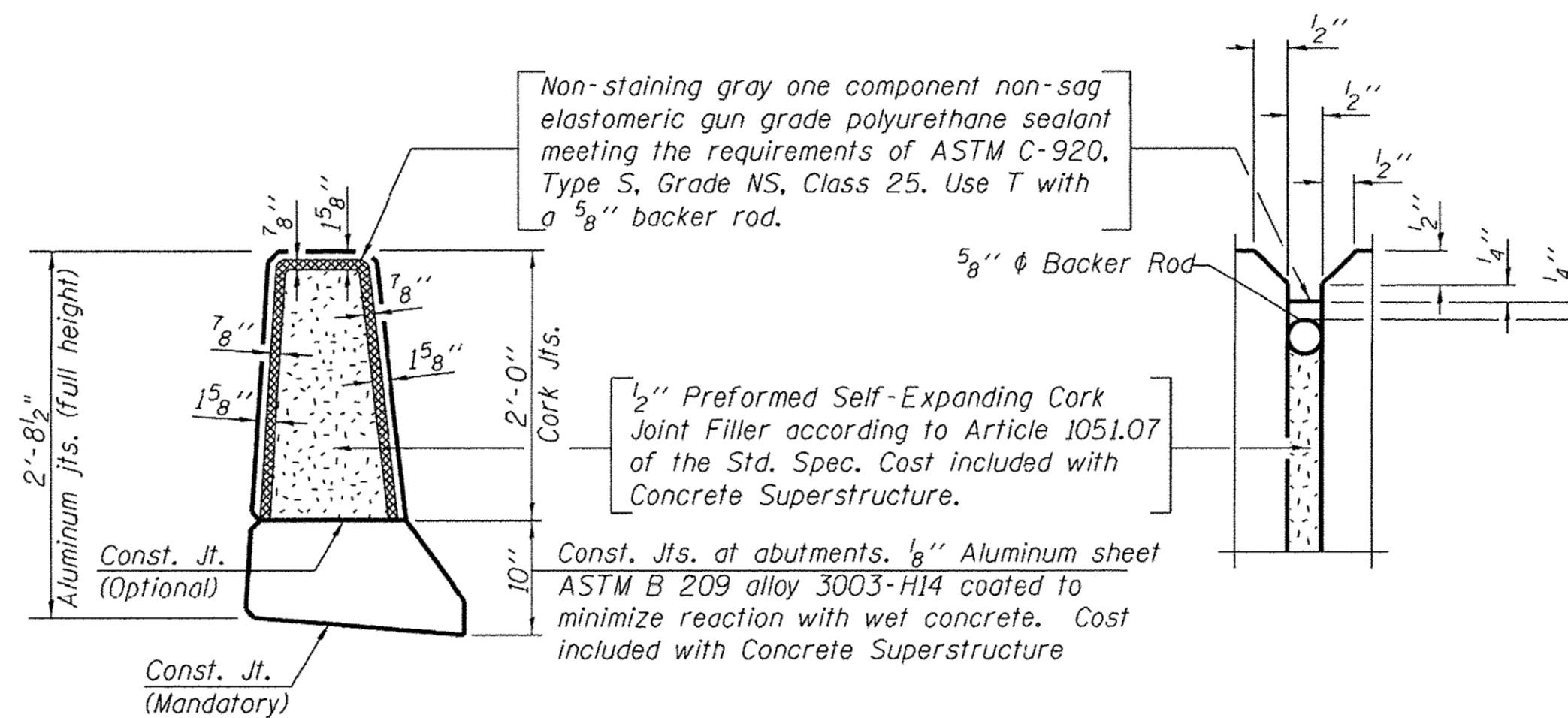
**MINIMUM BAR LAP**

(Parapet)  
 #4 bar = 2'-8"  
 #8 bar = 5'-11"

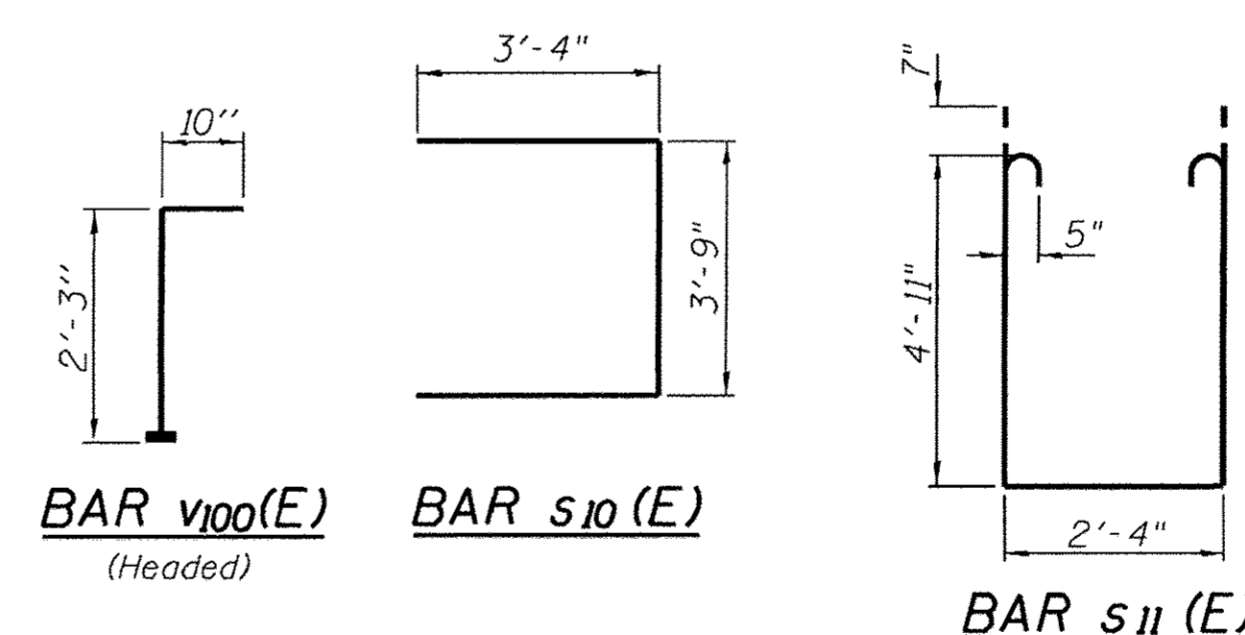


**SECTION THRU PARAPET**

\*\*For insert locations See sheet 12 of 18.



**PARAPET JOINT DETAILS**

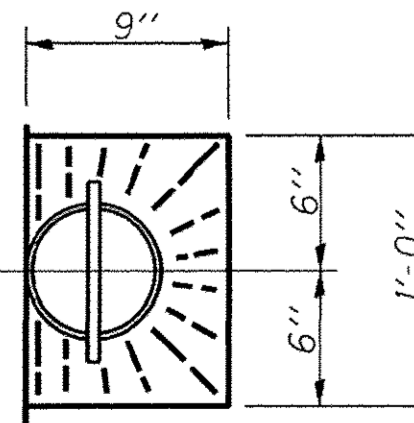


**SUPERSTRUCTURE BILL OF MATERIAL**

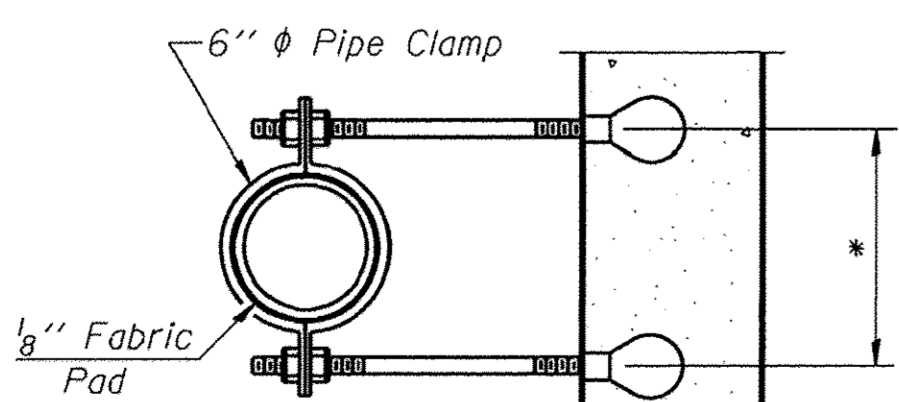
Bar	No.	Size	Length	Shape
a(E)	140	#5	40'-7"	—
a1(E)	92	#5	40'-0"	—
a2(E)	264	#6	6'-6"	—
b(E)	132	#5	30'-1"	—
b1(E)	124	#5	23'-5"	—
d(E)	184	#5	5'-7"	⏏
d1(E)	184	#5	7'-5"	⏏
e(E)	70	#4	16'-5"	—
e1(E)	6	#8	31'-8"	—
e2(E)	8	#4	22'-10"	—
m10(E)	12	#6	40'-10"	—
m11(E)	40	#6	6'-2"	—
m12(E)	16	#6	2'-6"	—
m13(E)	10	#6	4'-10"	—
m14(E)	4	#6	1'-10"	—
m15(E)	24	#5	4'-0"	—
s10(E)	72	#5	10'-5"	⏏
s11(E)	72	#5	13'-4"	⏏
v100(E)	84	#5	3'-1"	⏏
Floor Drains	Each		10	
Reinforcement Bars, Epoxy Coated	Lbs.		26,810	
Concrete Superstructure	Cu. Yd.		156.3	
Bridge Deck Grooving	Sq. Yd.		334	
Protective Coat	Sq. Yd.		423	

Bars indicated thus 1 x 3-#8 etc. indicates 1 line of bars with 3 lengths per line.

**Notes:**  
 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 fiberglass floor drains shall be pigmented by the manufacturer with a color that matches the concrete.  
 The top portion of aluminum floor drains shall be coated to minimize reaction with wet concrete.  
 The clamping device and inserts shall be galvanized according to AASHTO M 232. Cost of clamping device and galvanizing included with Floor Drains.  
 Headed bars shall conform to ASTM A970 Class HA. Cost included with Reinforcement Bars, Epoxy Coated.

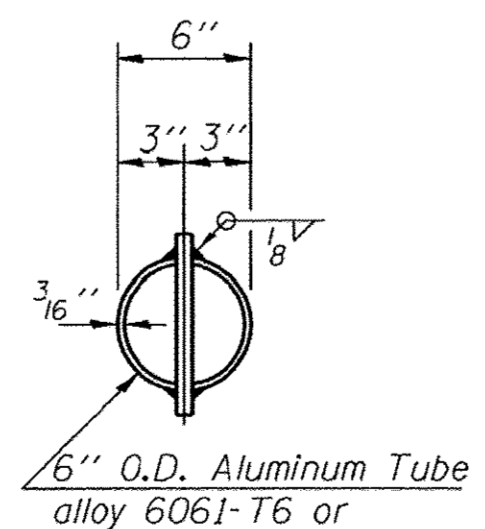


**TOP PLAN**



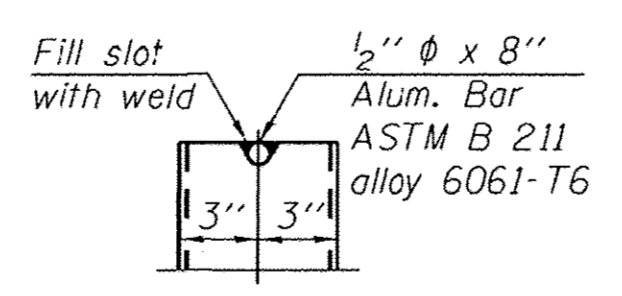
**SECTION A-A**

\*Dimension as required by Pipe Clamp

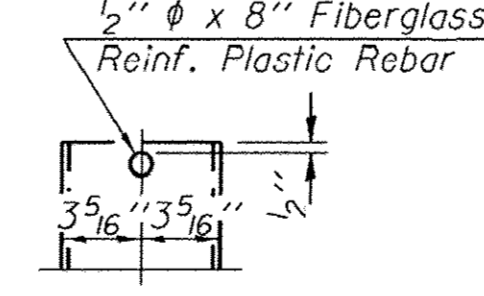


**TOP PLAN**

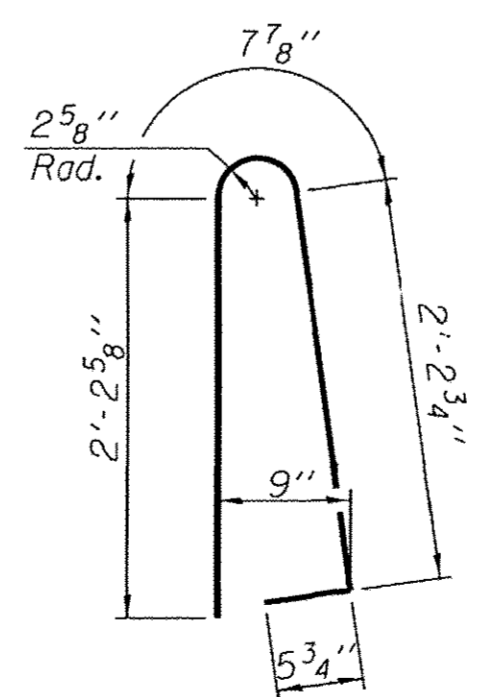
(Showing Aluminum Tube)



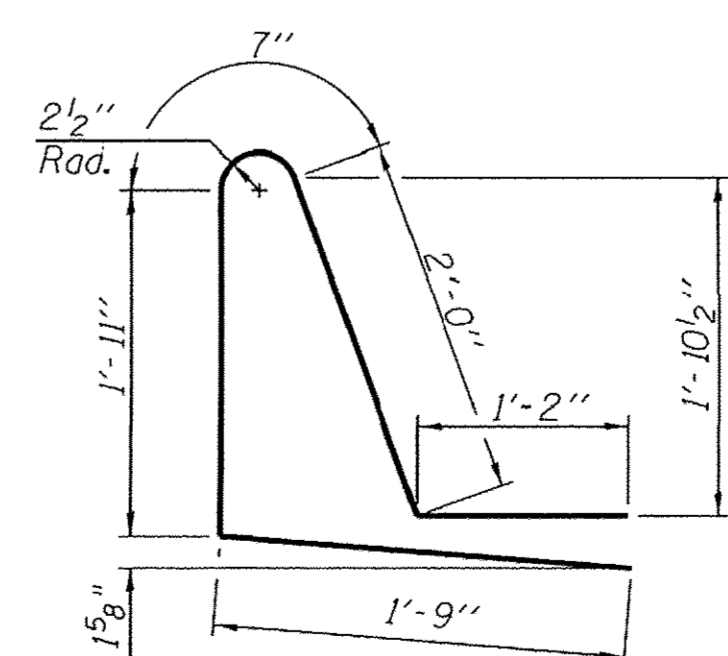
**ALUMINUM TUBE**



**FIBERGLASS PIPE**



**BAR d(E)**



**BAR d1(E)**

SDI-I4854-1 10-7-16

FILE NAME = SUPERSTRUCTURE DETAILS.dgn	DESIGNED - MJP	REVISED -
PLOT DATE = 1/18/2017	DRAWN - MJP	REVISED -
PLOT TIME = 12:59:30 PM	CHECKED - KWB	REVISED -
	DATE - 1/16/17	REVISED -

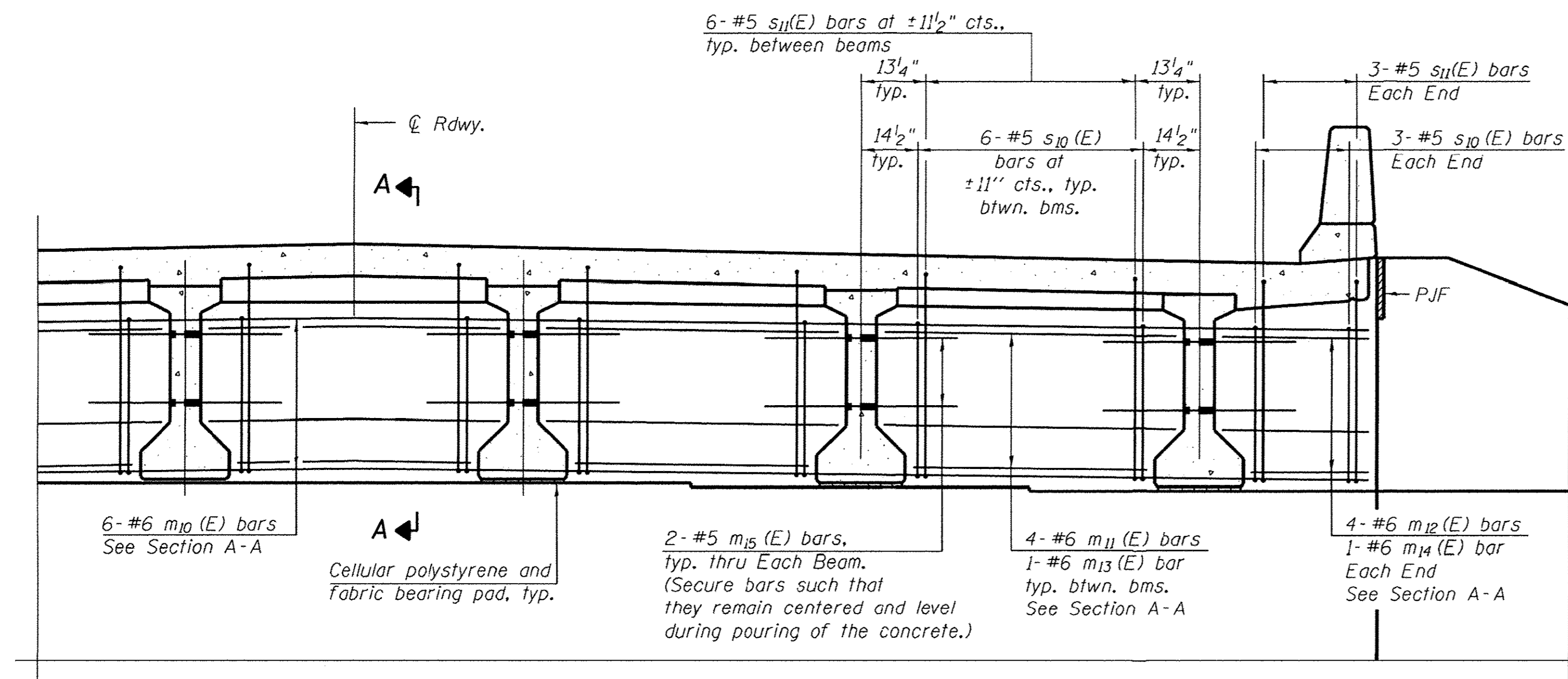
**URS** 345 EAST ASH AVE., SUITE B  
 DECATUR, ILLINOIS 62526  
 PH. 217-875-4800

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

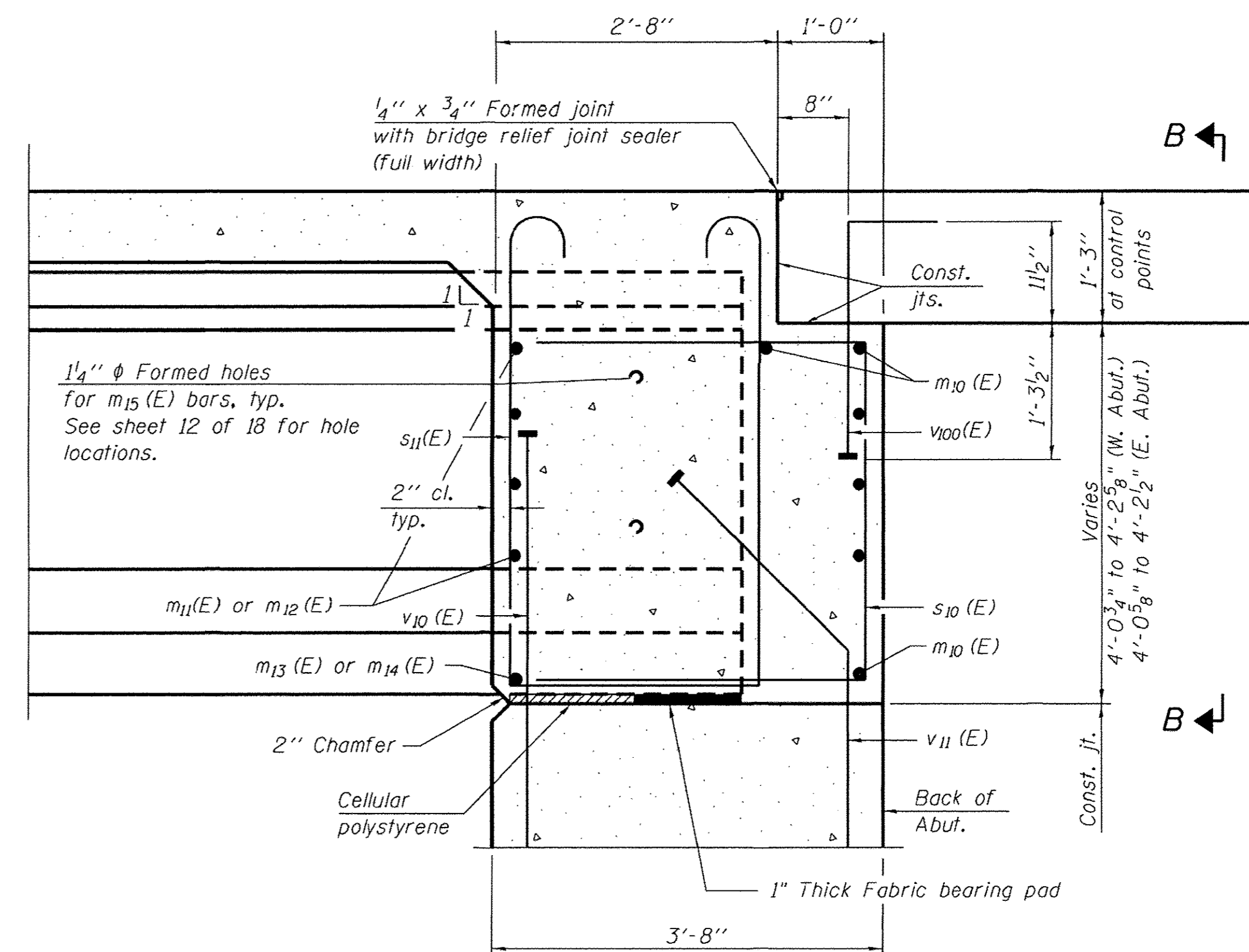
**SUPERSTRUCTURE DETAILS**  
**STRUCTURE NO. 058-3399**

SHEET 7 OF 18 SHEETS

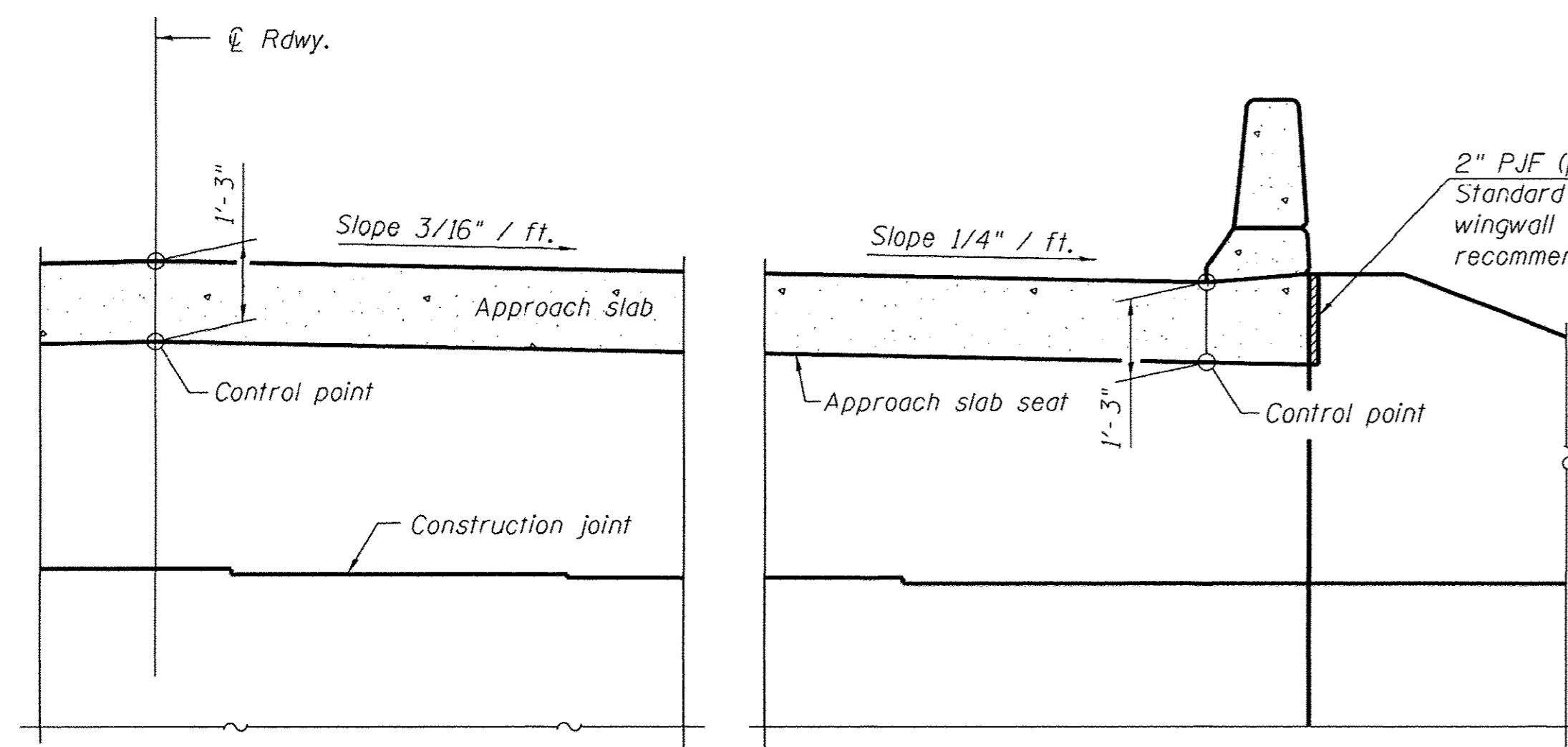
F.A.U. RTE. 7411	SECTION 07-00218-00-BR	COUNTY MACON	TOTAL SHEETS 51	SHEET NO. 19
CONTRACT NO. 95759				
ILLINOIS FED. AID PROJECT				



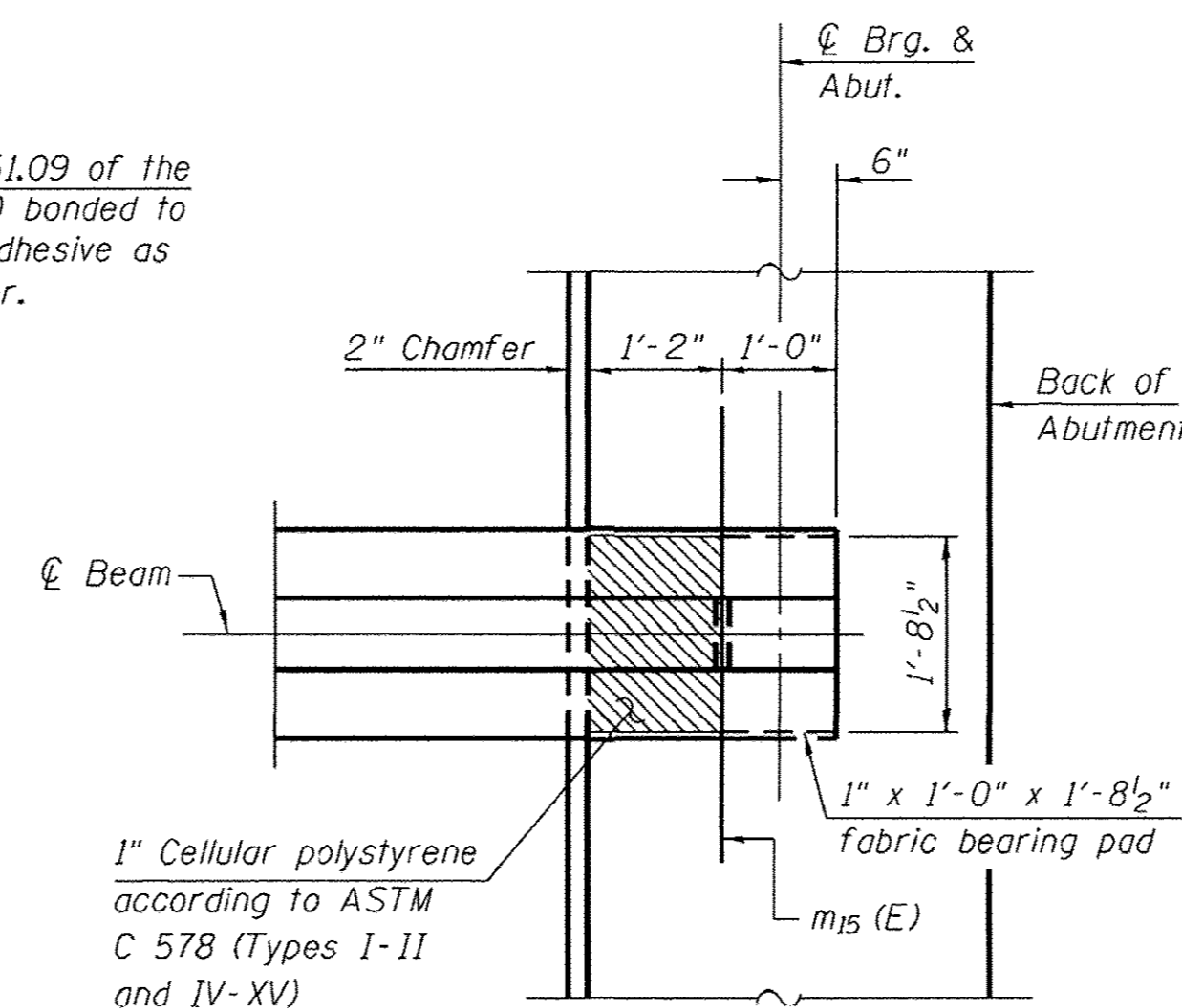
**DIAPHRAGM AT ABUTMENT**



**SECTION A-A**



**SECTION B-B**



**PLAN AT ABUTMENT**  
(Showing bottom flange of beam)

Notes:  
 Reinforcement bars in diaphragm are billed with superstructure on sheet 7 of 18.  
 Concrete in diaphragm is included with Concrete Superstructure on sheet 7 of 18.  
 For details of bars  $s_{10}(E)$ ,  $s_{11}(E)$  and  $v_{100}(E)$  see sheet 7 of 18.  
 The approach slab seat shall have a constant slope determined from the control points shown.  
 Cost of cellular polystyrene and fabric bearing pads is included with Concrete Superstructure.  
 Beams shall be braced for stability during erection and remain braced until deck is poured and cured.

DIA-14854-0

10-7-2016

FILE NAME =	DESIGNED - MJP	REVISED -
DIAPHRAGM DETAILS.dgn	DRAWN - MJP	REVISED -
PLOT DATE = 1/18/2017	CHECKED - KWB	REVISED -
PLOT TIME = 1:03:22 PM	DATE - 1/16/17	REVISED -

**URS** 345 EAST ASH AVE., SUITE B  
 DECATUR, ILLINOIS 62526  
 PH. 217-875-4800

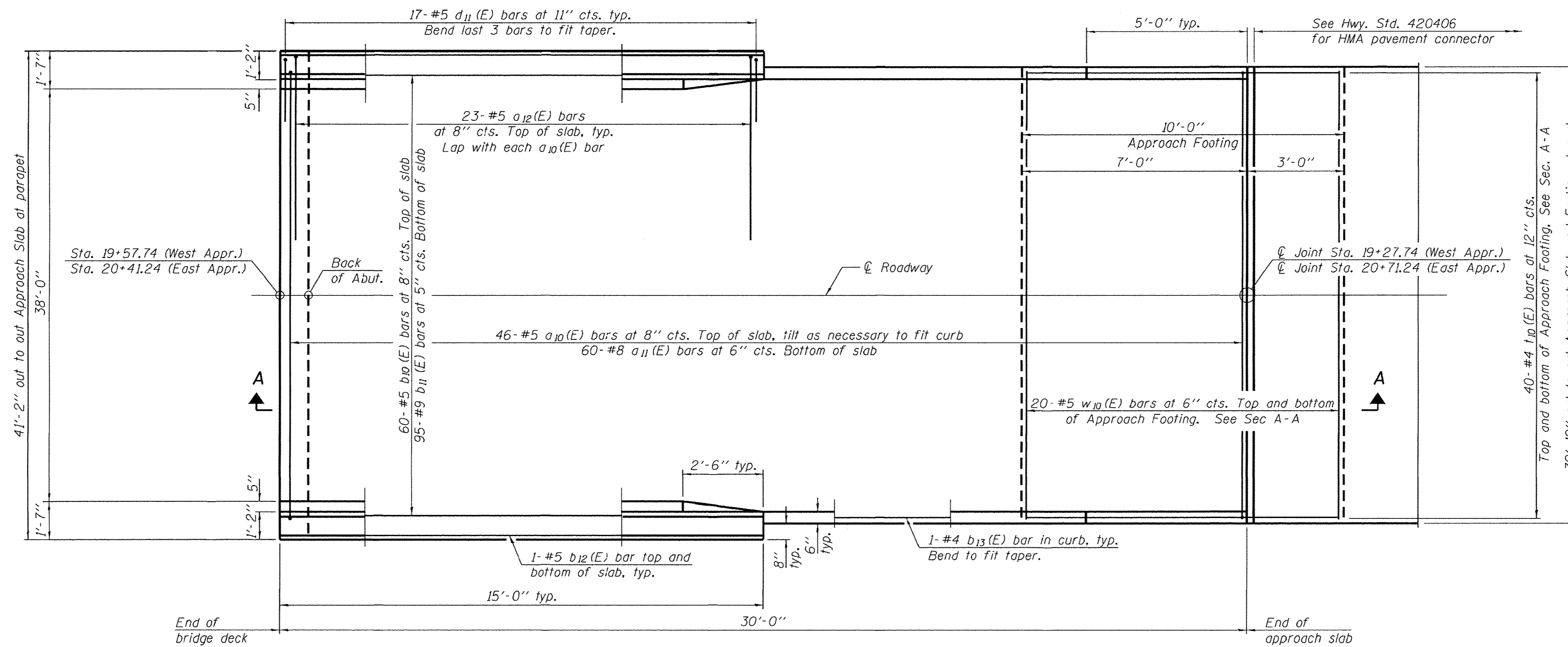
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**DIAPHRAGM DETAILS**  
**STRUCTURE NO. 058-3399**

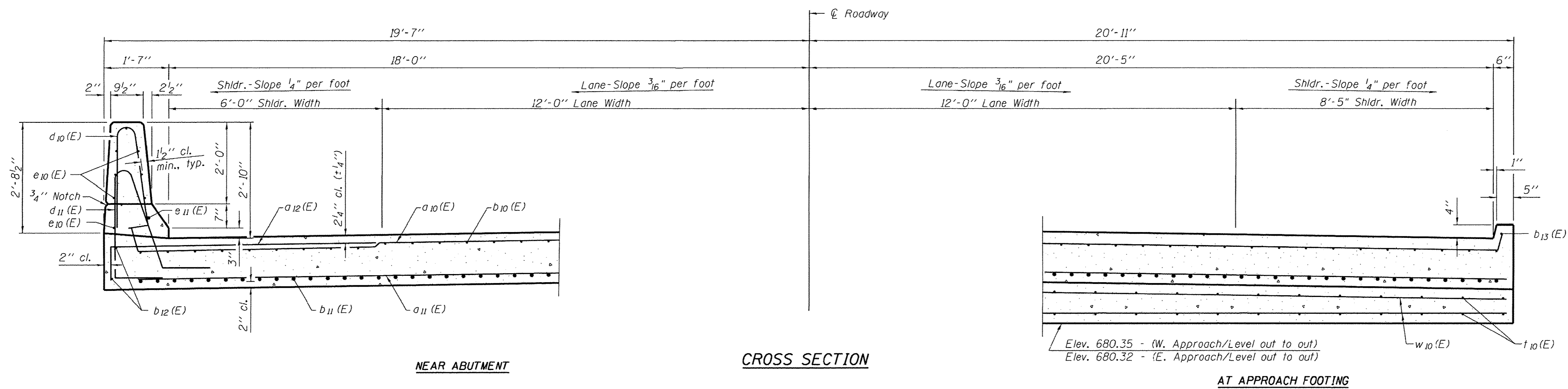
SHEET 8 OF 18 SHEETS

F.A.U. RTE. 7411	SECTION 07-00218-00-BR	COUNTY MACON	TOTAL SHEETS 51	SHEET NO. 20
CONTRACT NO. 95759				
ILLINOIS FED. AID PROJECT				





**PLAN**



**CROSS SECTION**

BAIA-CIP-34FS-0 11-22-2016

(Sheet 1 of 2)

FILE NAME =	DESIGNED - MJP	REVISED -
APPROACH_SLAB_1.dgn	DRAWN - MJP	REVISED -
PLOT DATE = 1/18/2017	CHECKED - KWB	REVISED -
PLOT TIME = 1:03:50 PM	DATE - 1/16/17	REVISED -

**URS** 345 EAST ASH AVE., SUITE B  
DECATUR, ILLINOIS 62526  
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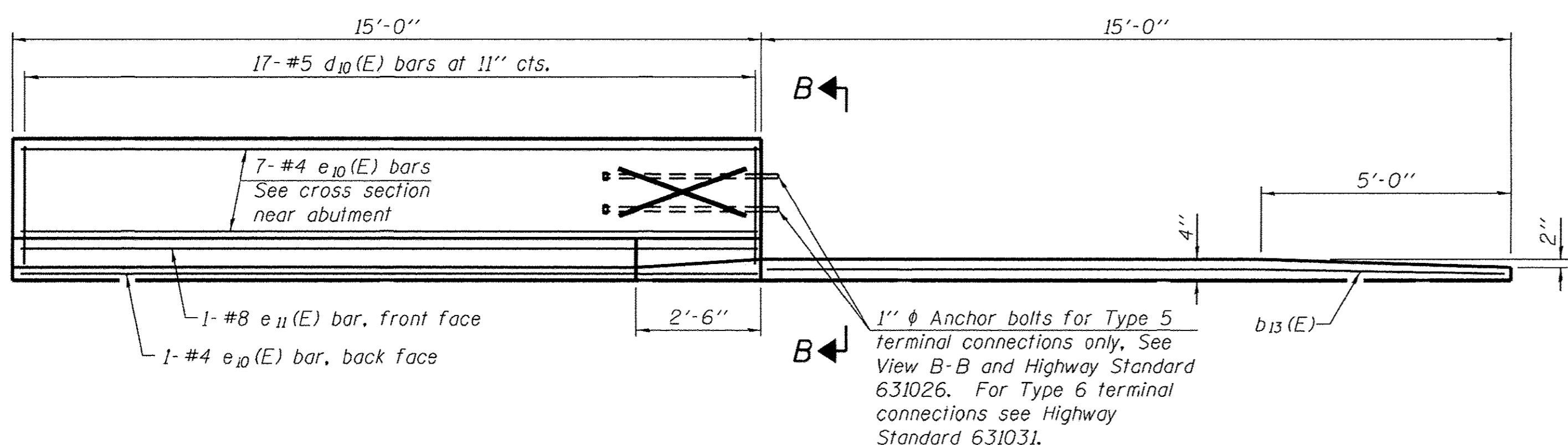
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS  
STRUCTURE NO. 058-3399

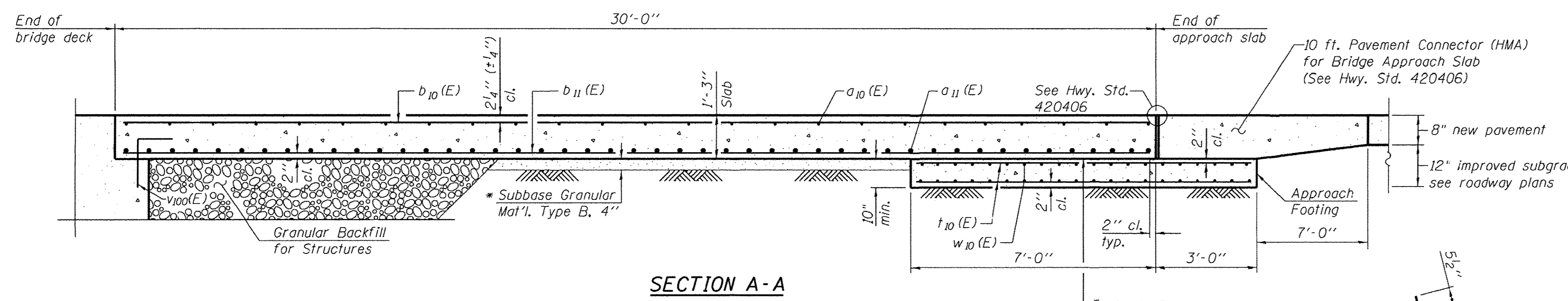
SHEET 9 OF 18 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7411	07-00218-00-BR	MACON	51	21
CONTRACT NO. 95759				
ILLINOIS FED. AID PROJECT				

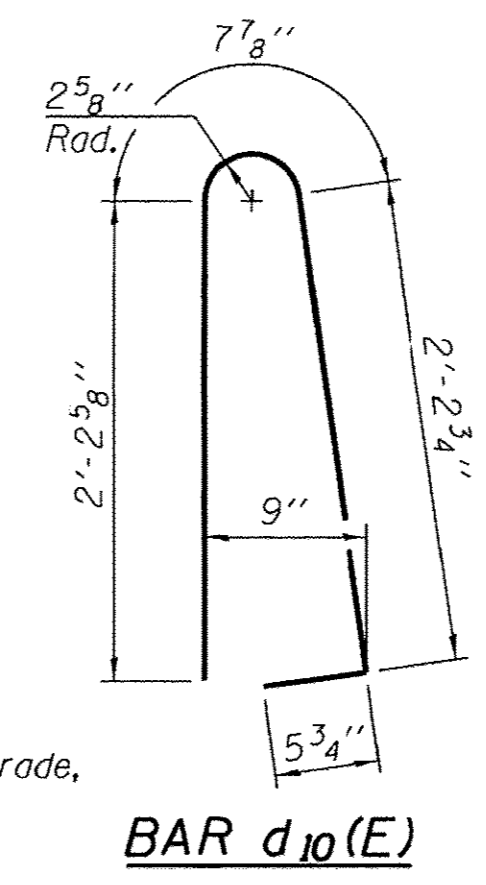
Notes:  
 Parapet concrete shall be paid for as Concrete Superstructure.  
 Approach slab shall be paid for as Concrete Superstructure (Approach Slab).  
 Approach footing concrete shall be paid for as Concrete Structures.  
 The approach footing maximum applied service bearing pressure (Omax) = 2.0 ksf.  
 Cost of excavation for approach footing included with Concrete Structures.  
 For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 18.  
 For  $v_{100}(E)$  bar details, see sheet 7 of 18.



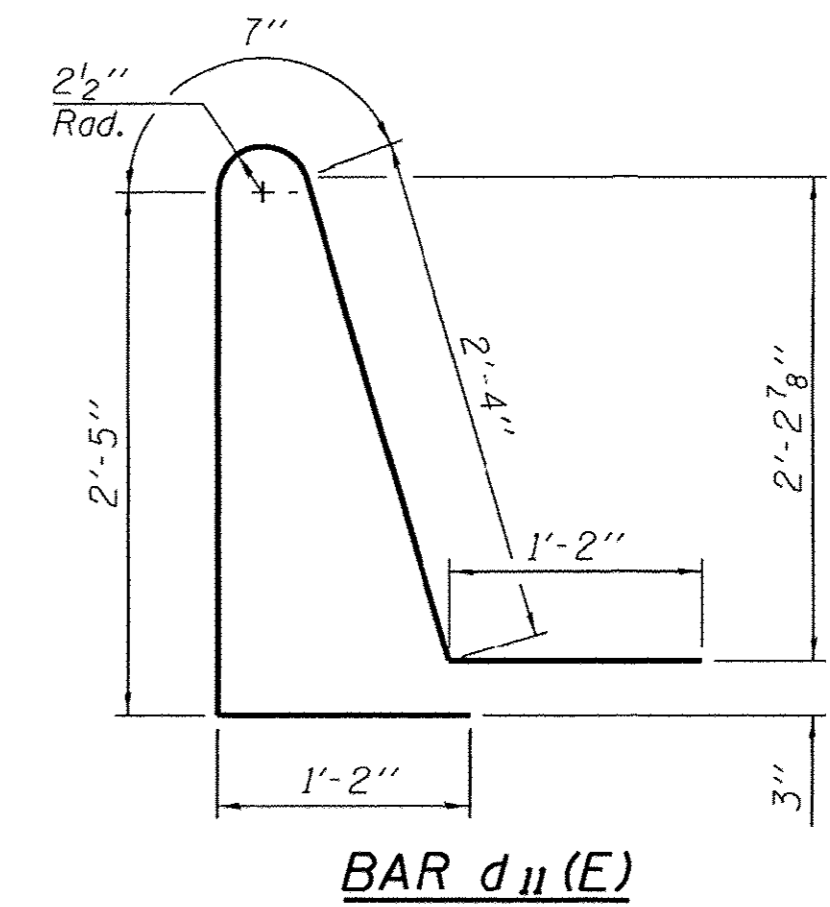
INSIDE ELEVATION OF PARAPET AND CURB



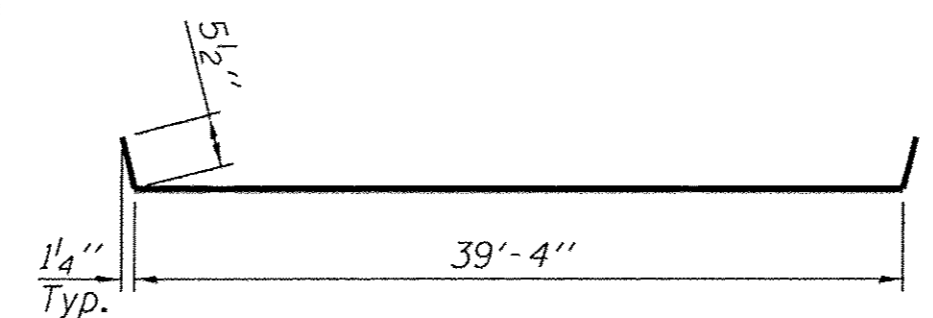
SECTION A-A



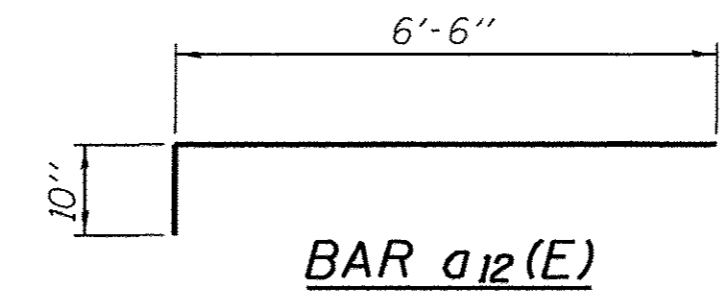
BAR  $d_{10}(E)$



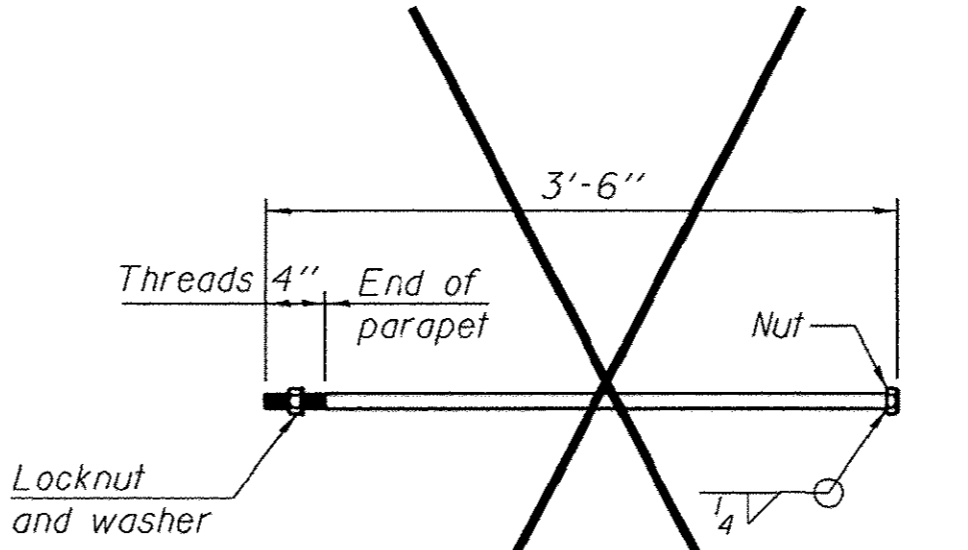
BAR  $d_{11}(E)$



BAR  $a_{10}(E)$



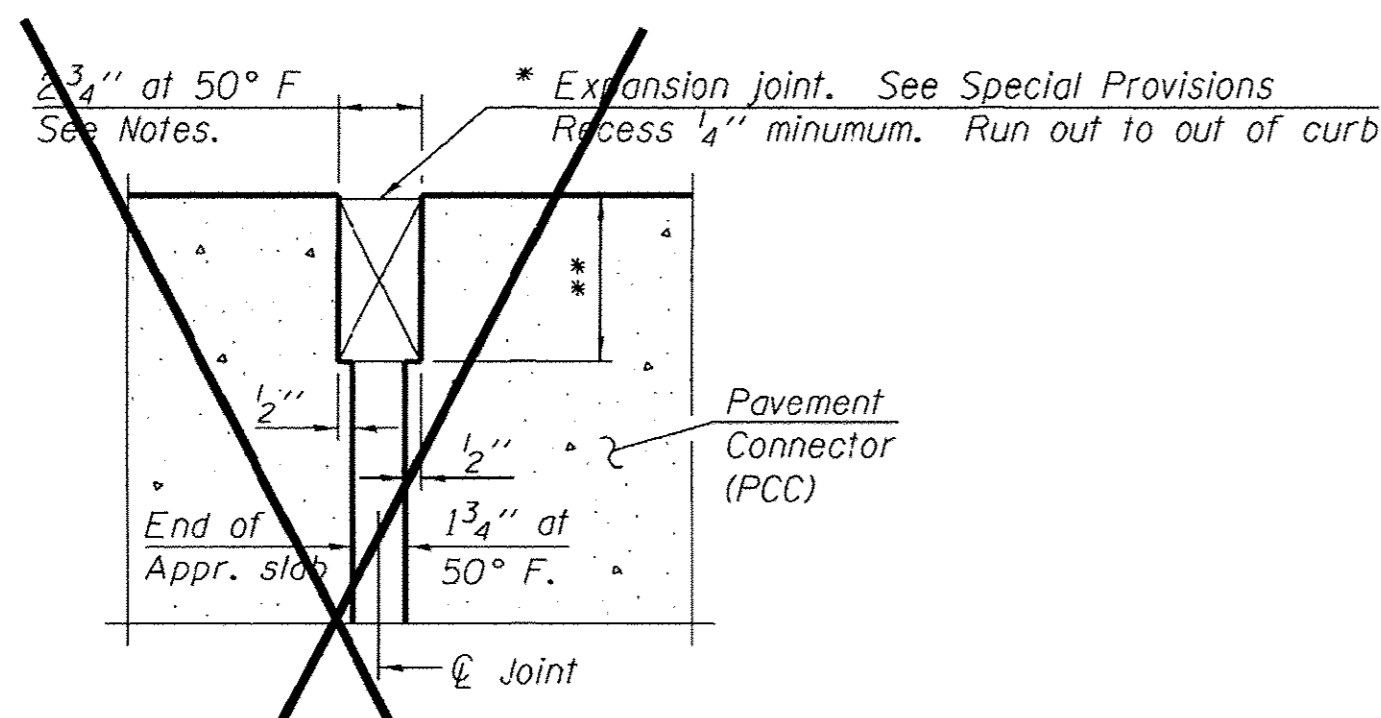
BAR  $a_{12}(E)$



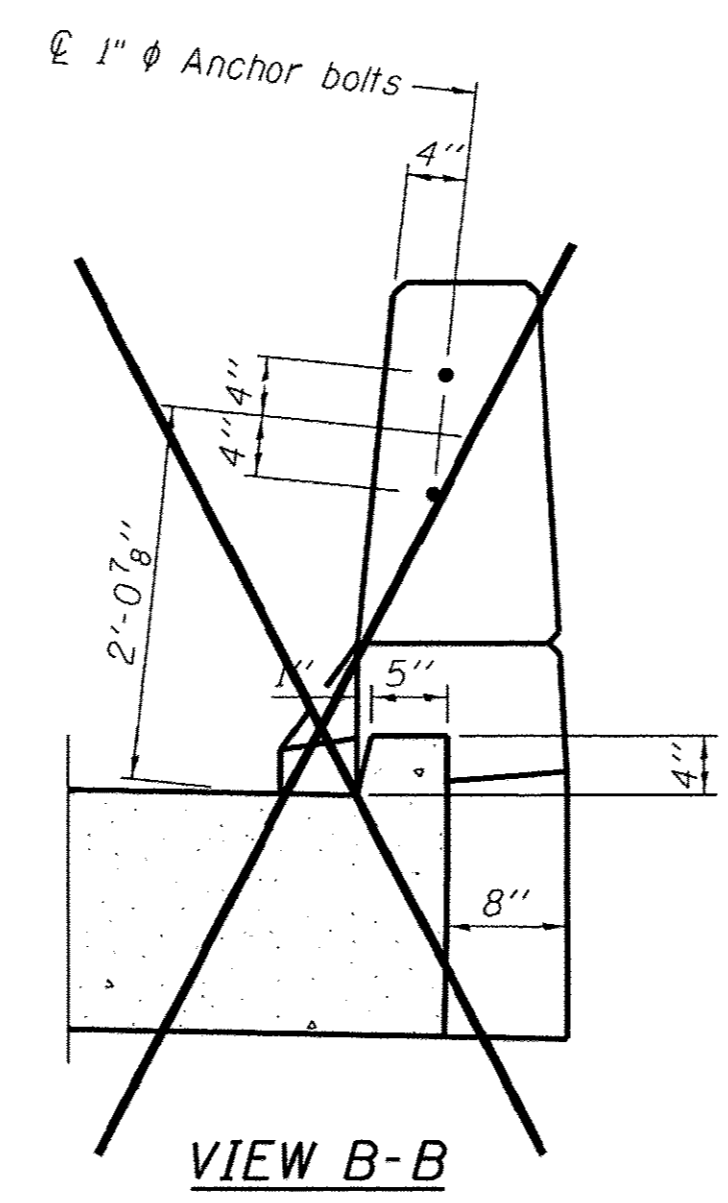
**\*1"  $\phi$  ANCHOR BOLT**  
 (Anchor bolt assemblies shall be galvanized according to Article 1006.09 of the Standard Specifications)

**TWO APPROACHES  
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
$a_{10}(E)$	92	#5	40'-3"	—
$a_{11}(E)$	120	#8	39'-6"	—
$a_{12}(E)$	92	#5	7'-4"	—
$b_{10}(E)$	120	#5	29'-8"	—
$b_{11}(E)$	190	#9	29'-8"	—
$b_{12}(E)$	8	#5	14'-8"	—
$b_{13}(E)$	4	#4	14'-8"	—
$d_{10}(E)$	68	#5	5'-7"	U
$d_{11}(E)$	68	#5	7'-8"	U
$e_{10}(E)$	32	#4	14'-8"	—
$e_{11}(E)$	4	#8	14'-8"	—
$t_{10}(E)$	160	#4	9'-8"	—
$w_{10}(E)$	80	#5	39'-6"	—
Concrete Superstructure		Cu. Yd.	6.7	
Concrete Superstructure (Approach Slab)		Cu. Yd.	113.1	
Concrete Structures		Cu. Yd.	24.6	
Reinforcement Bars, Epoxy Coated		Pound	46,000	
Bridge Deck Grooving		Sq. Yd.	243	
Protective Coat		Sq. Yd.	281	



DETAIL A



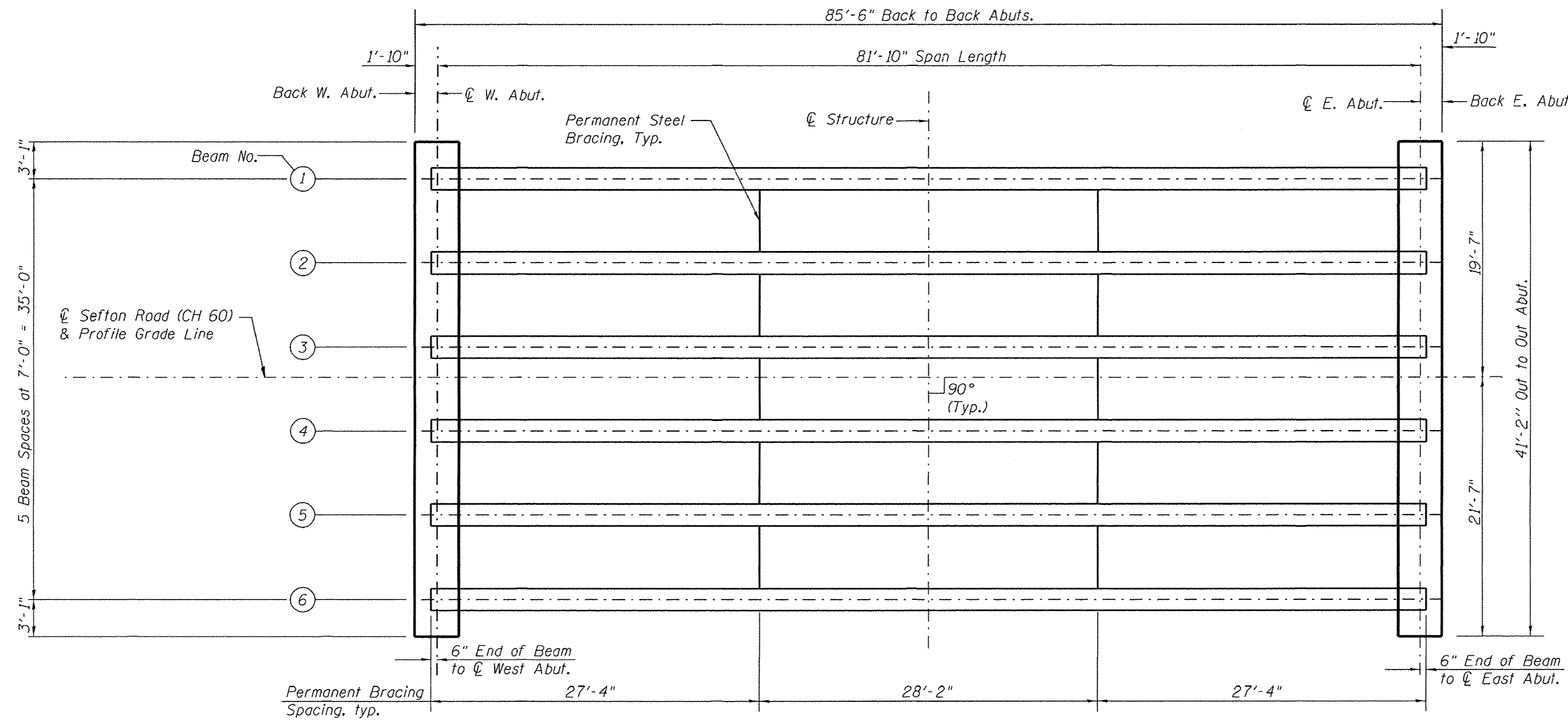
VIEW B-B

\* Cost included with Concrete Superstructure (Approach Slab).  
 \*\* Per manufacturer recommendations

BAIA-CIP-34FS-0 11-22-2016

(Sheet 2 of 2)

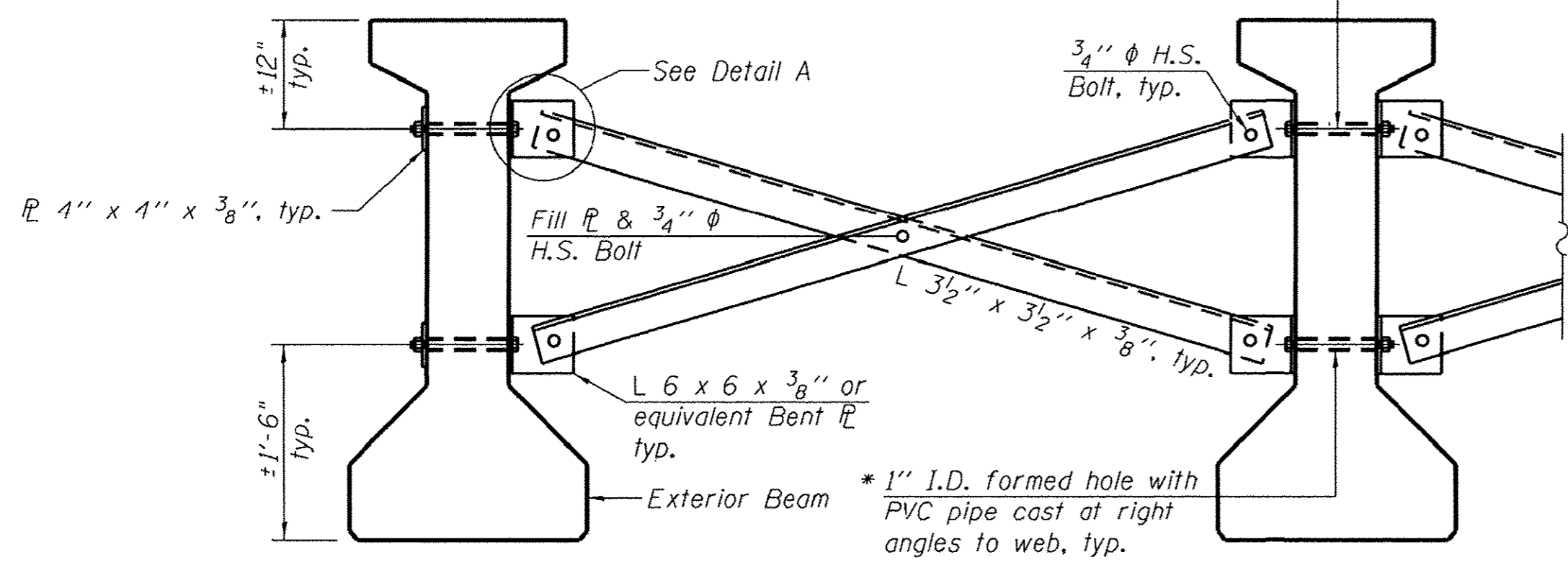




**FRAMING PLAN**

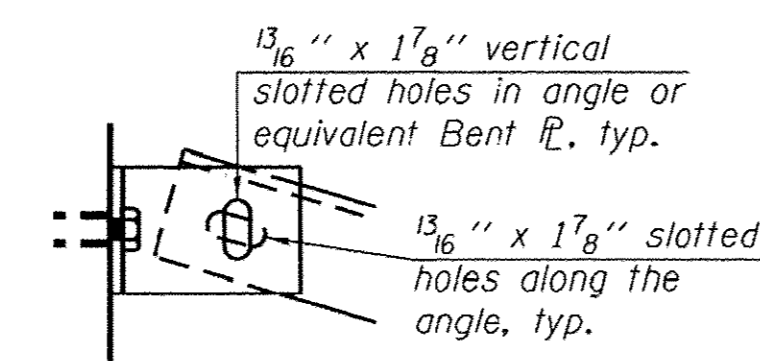
\* Fabricator shall locate to miss strands within permissible tolerances.

$\frac{3}{4}$ "  $\phi$  A307 Bolts with lock nuts, typ. Bolts through the concrete web shall be tightened to snug tight only.



**Notes:**  
 All material for bracing shall be hot dip galvanized according to AASHTO M111 unless otherwise noted.  
 Two hardened washers are required for each set of oversized holes.  
 All holes shall be  $\frac{15}{16}$ "  $\phi$  unless otherwise noted.  
 $\frac{5}{16}$ " x 3" x 3" plate washers are required over all slotted holes.  
 All bolts shall be galvanized according to AASHTO M232.  
 Bracing shall be installed as beams are erected and tightened as soon as possible during erection.  
 Permanent bracing shall not be paid for separately, but shall be included in the cost of Furnishing and Erecting Precast Prestressed Concrete I-Beams.

\* 1" I.D. formed hole with PVC pipe cast at right angles to web, typ.



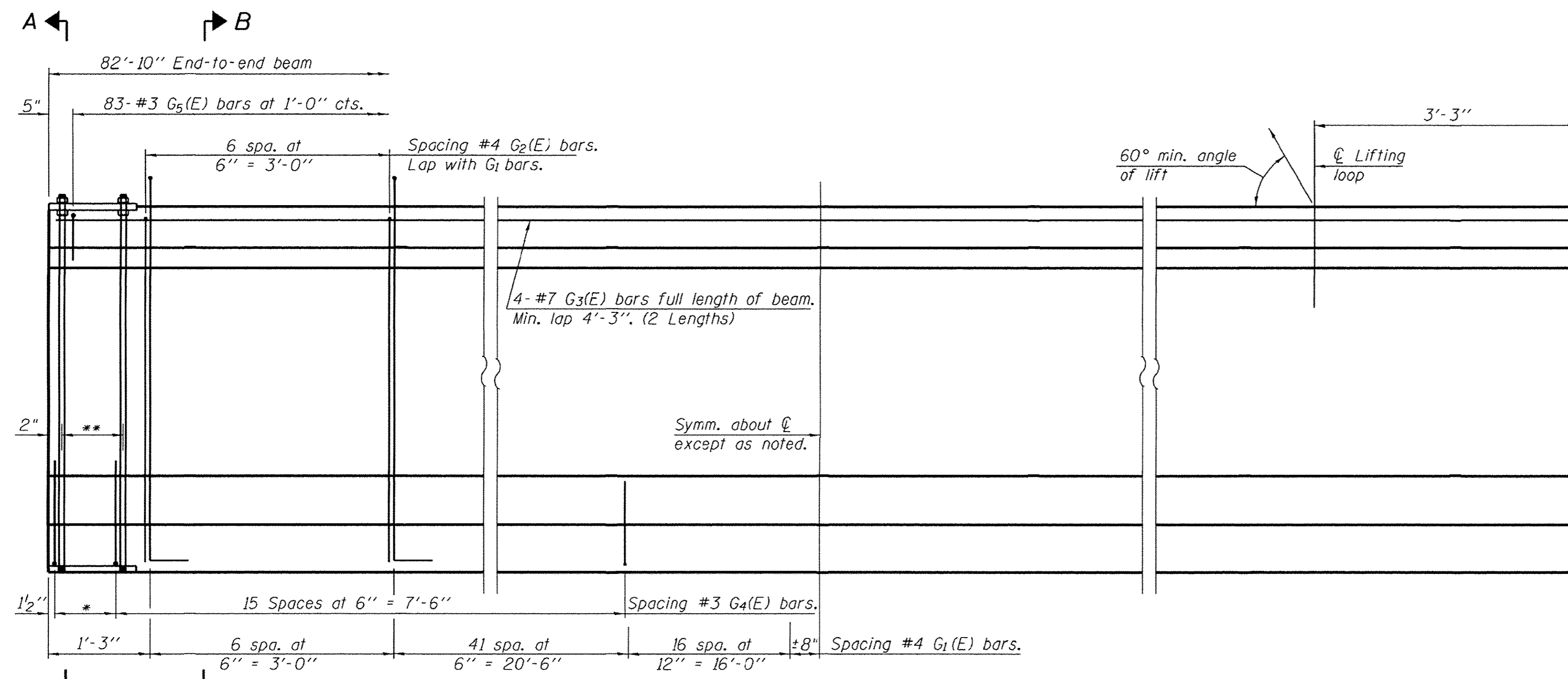
**DETAIL A**

INTERIOR BEAM MOMENT TABLE		0.5 Span
I	(in <sup>4</sup> )	213,715
I'	(in <sup>4</sup> )	517,194
S <sub>b</sub>	(in <sup>3</sup> )	8,559
S <sub>b</sub> '	(in <sup>3</sup> )	12,875
S <sub>t</sub>	(in <sup>3</sup> )	7,362
S <sub>t</sub> '	(in <sup>3</sup> )	37,397
DC1	(k/')	1.35
M <sub>DC1</sub>	(k)	1,130
DC2	(k/')	0.15
M <sub>DC2</sub>	(k)	126
DW	(k/')	0.35
M <sub>DW</sub>	(k)	293
M <sub>L + 1M</sub>	(k)	1,351

INTERIOR BEAM REACTION TABLE		W. & E. Abuts.
R <sub>DC1</sub>	(k)	55.9
R <sub>DC2</sub>	(k)	6.2
R <sub>DW</sub>	(k)	14.5
R <sub>L + 1M</sub>	(k)	82.5
R <sub>Total</sub>	(k)	159.1

I: Non-composite moment of inertia of beam section (in<sup>4</sup>).  
 I': Composite moment of inertia of beam section (in<sup>4</sup>).  
 S<sub>b</sub>: Non-composite section modulus for the bottom fiber of the prestressed beam (in<sup>3</sup>).  
 S<sub>b</sub>': Composite section modulus for the bottom fiber of the prestressed beam (in<sup>3</sup>).  
 S<sub>t</sub>: Non-composite section modulus for the top fiber of the prestressed beam (in<sup>3</sup>).  
 S<sub>t</sub>': Composite section modulus for the top fiber of the prestressed beam (in<sup>3</sup>).  
 DC1: Un-factored non-composite dead load (kips/ft.).  
 M<sub>DC1</sub>: Un-factored moment due to non-composite dead load (kip-ft.).  
 DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).  
 M<sub>DC2</sub>: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).  
 DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).  
 M<sub>DW</sub>: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).  
 M<sub>L + 1M</sub>: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

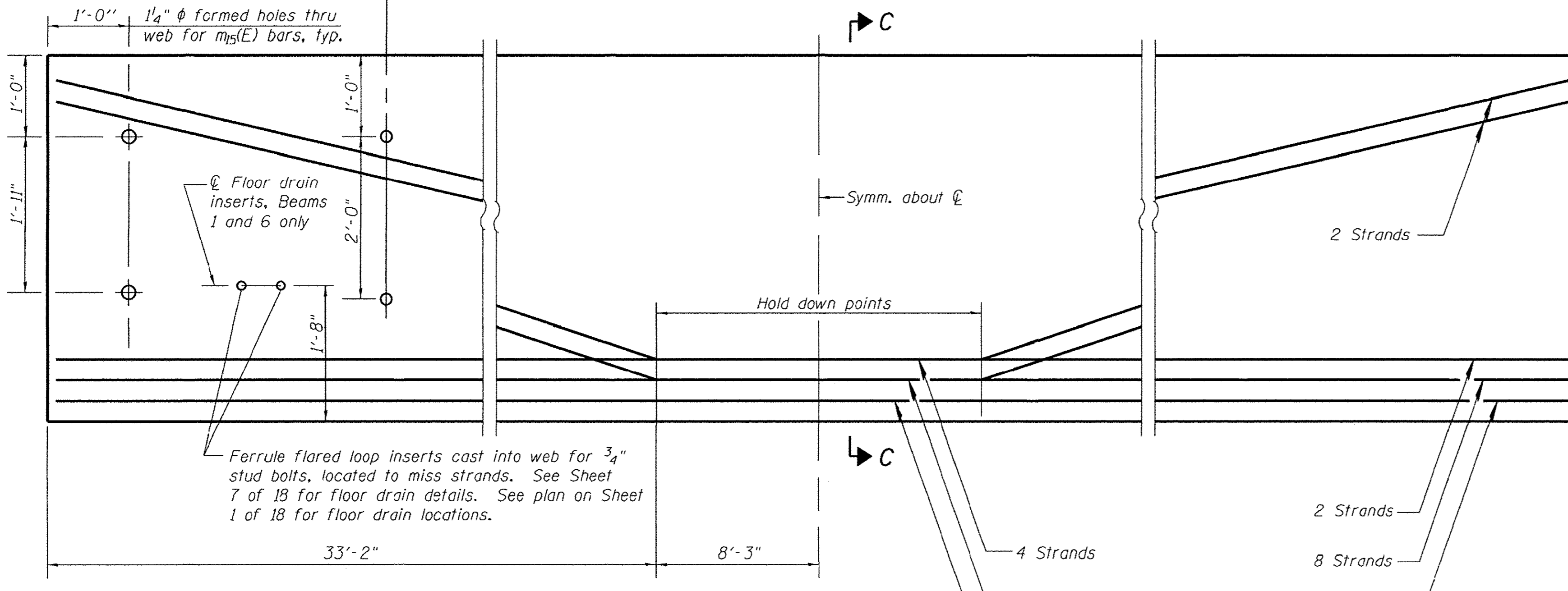
**PERMANENT BRACING DETAILS FOR 54" PPC I-BEAMS**



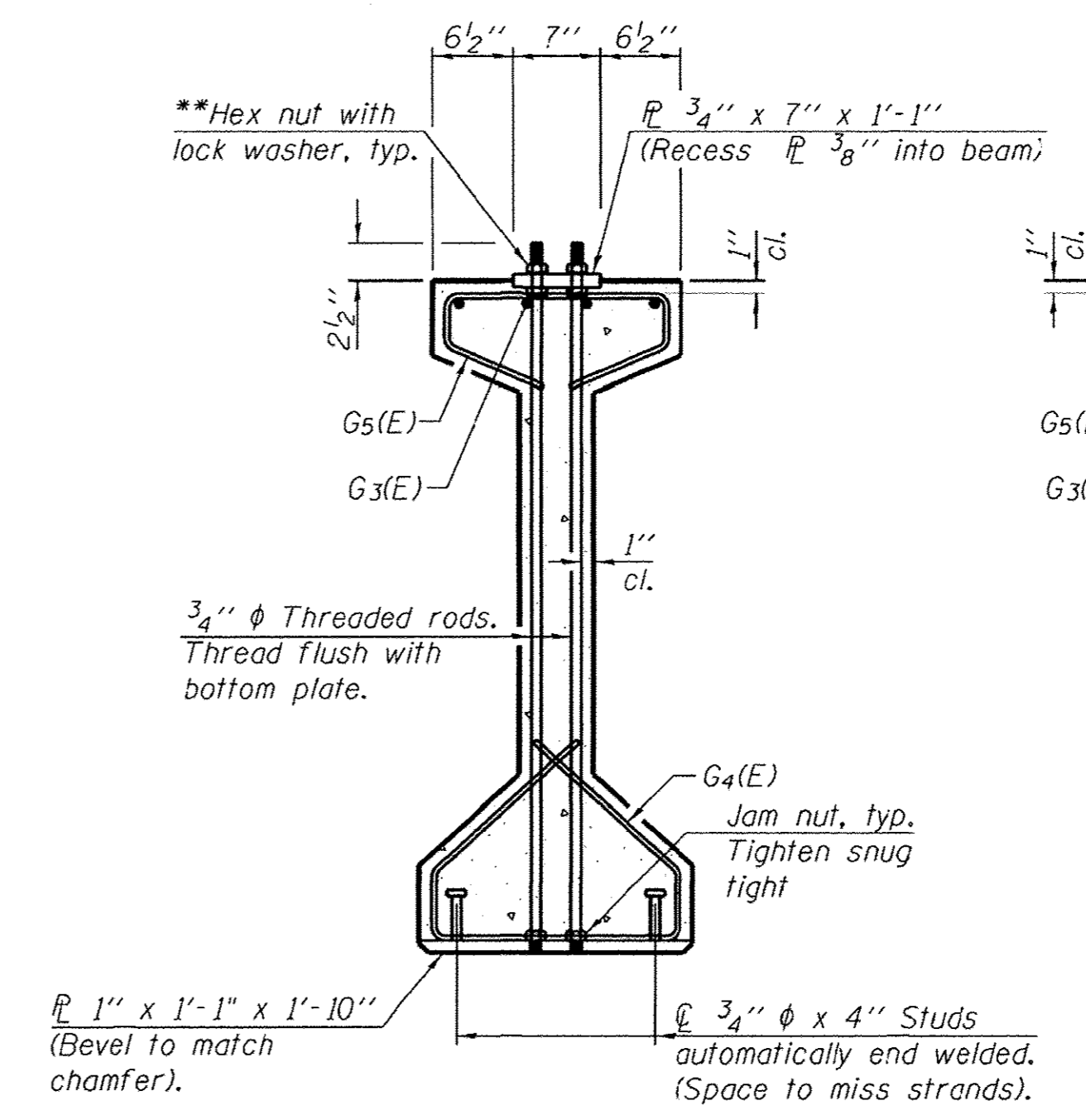
**ELEVATION OF BEAM**  
(Showing reinforcement & dimensions)

\* 3 spaces at 3" = 9".  
\*\* 4- 3/4"  $\phi$  threaded rods at 3" cts., Each Face.

$\bar{C}$  1" I.D. formed hole with PVC pipe cast at right angles to web. See Permanent Bracing Detail on Sheet 11 of 18. See plan on Sheet 11 of 18 for permanent bracing locations.

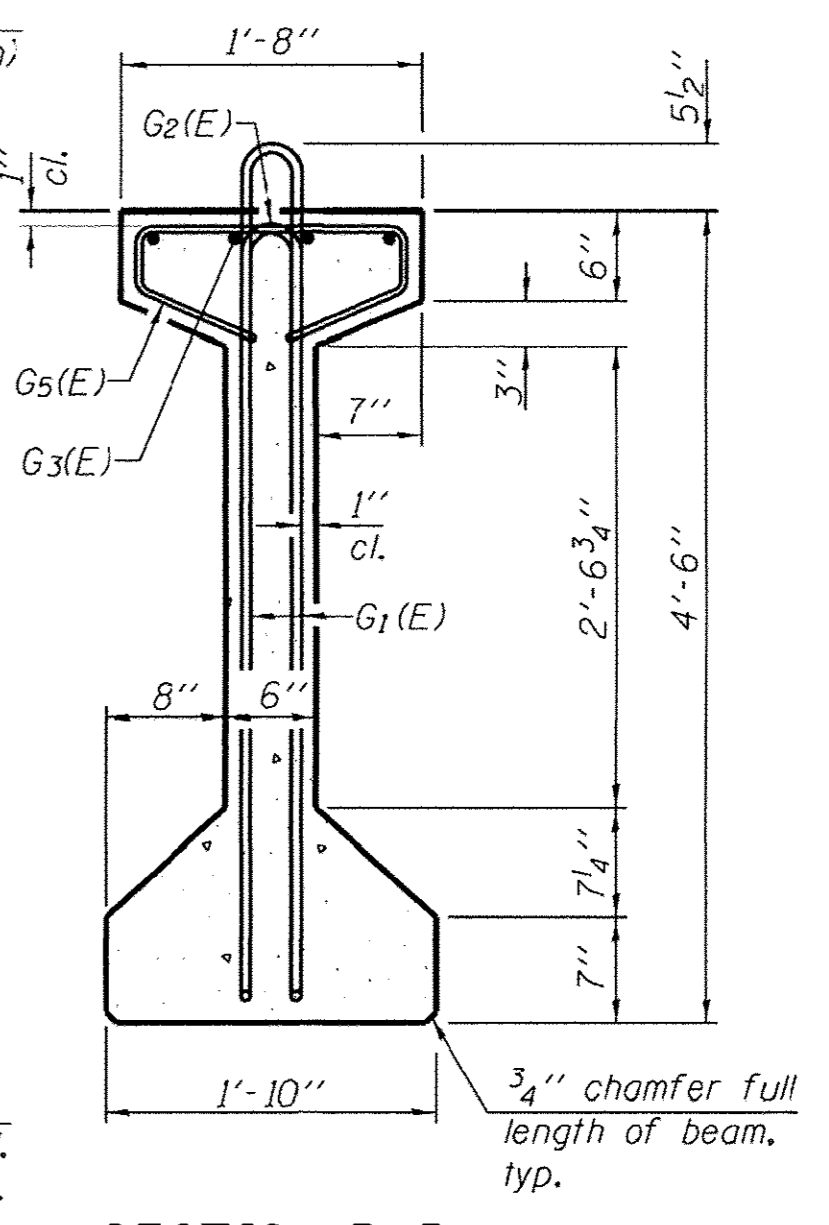


**ELEVATION OF BEAM**  
(Showing prestressing steel)



**SECTION A-A**

\*\*Only tighten sufficiently to compress lock washers



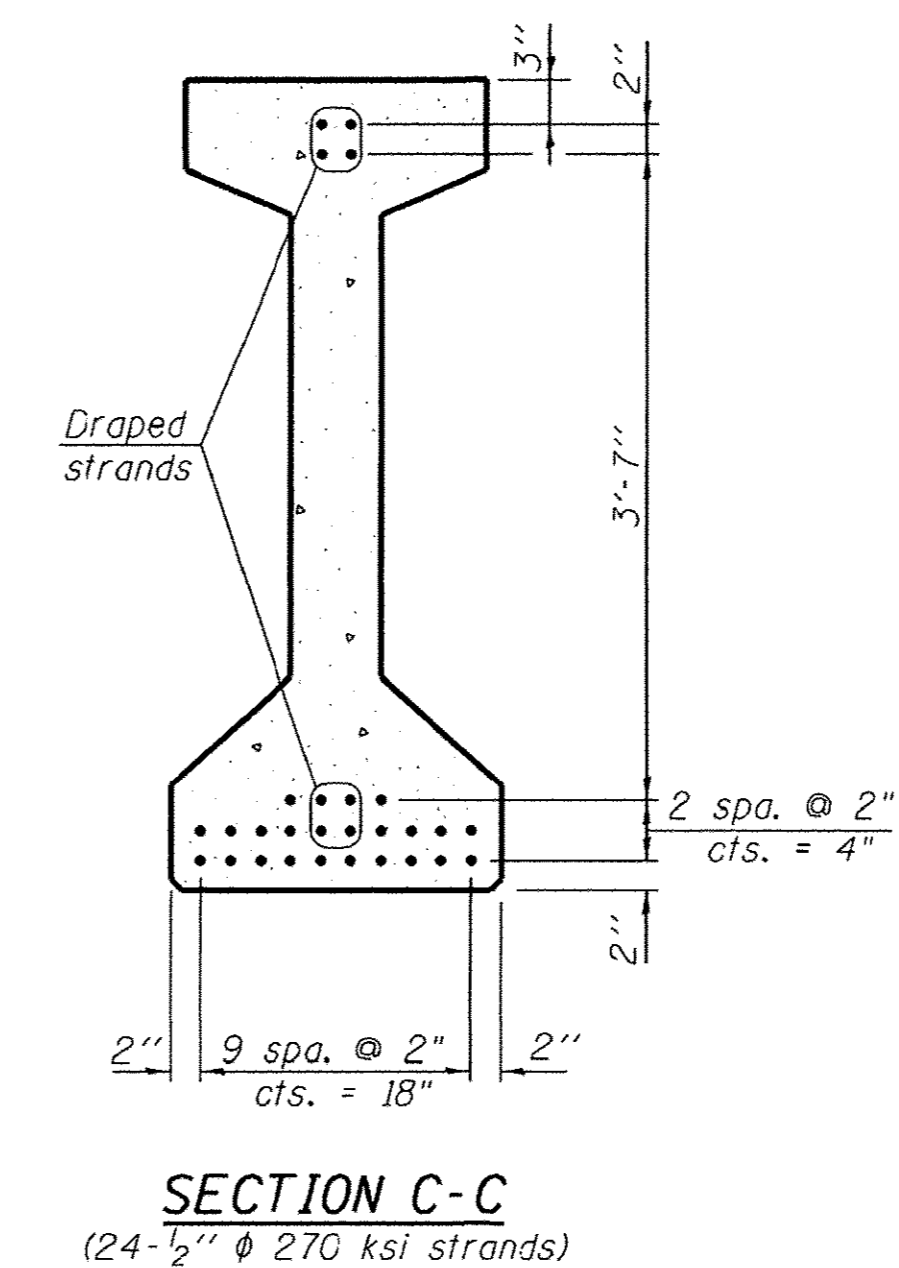
**SECTION B-B**

**\*\*\*BAR LIST**  
**ONE BEAM ONLY**

Bar	No.	Size	Length	Shape
G <sub>1</sub> (E)	129	#4	10'-7"	⌒
G <sub>2</sub> (E)	14	#4	8'-8"	—
G <sub>3</sub> (E)	8	#7	43'-5"	—
G <sub>4</sub> (E)	38	#3	4'-11"	⌒
G <sub>5</sub> (E)	83	#3	3'-5"	⌒

\*\*\*For information only

Notes:  
See sheet 13 of 18 for additional details and Bill of Material.  
Required release strength, f'ci, shall be 5,000 psi.  
Required final strength, f'c, shall be 6,000 psi.



**SECTION C-C**  
(24-1/2"  $\phi$  270 ksi strands)

PI-4-54

10-7-16

FILE NAME = I-BEAM.dgn	DESIGNED - MJP	REVISED -
PLOT DATE = 1/18/2017	DRAWN - MJP	REVISED -
PLOT TIME = 1:08:00 PM	CHECKED - KWB	REVISED -
	DATE - 1/16/17	REVISED -

**URS** 345 EAST ASH AVE., SUITE B  
DECATUR, ILLINOIS 62526  
PH. 217-875-4800

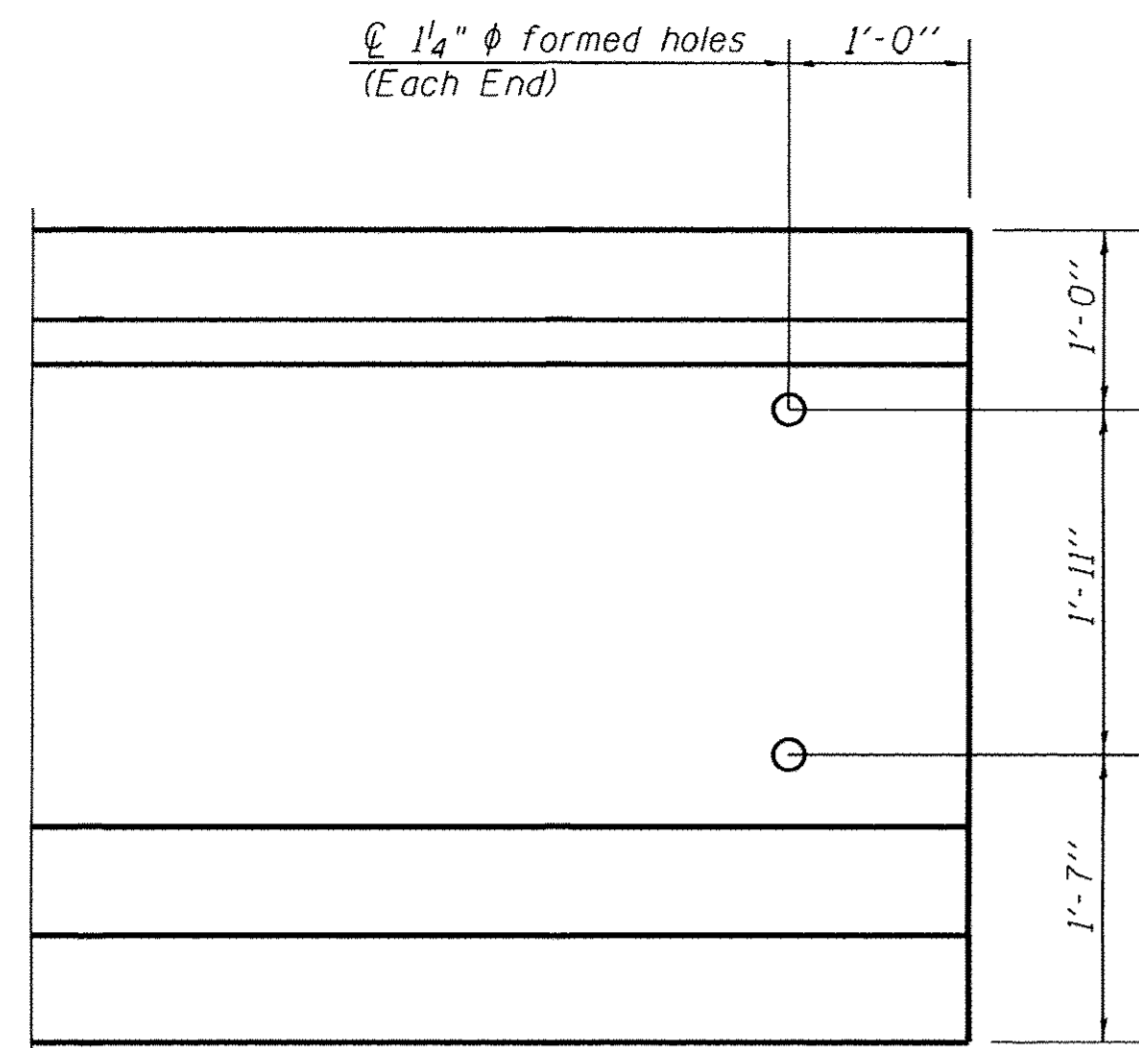
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**54" PPC I-BEAM**  
**STRUCTURE NO. 058-3399**

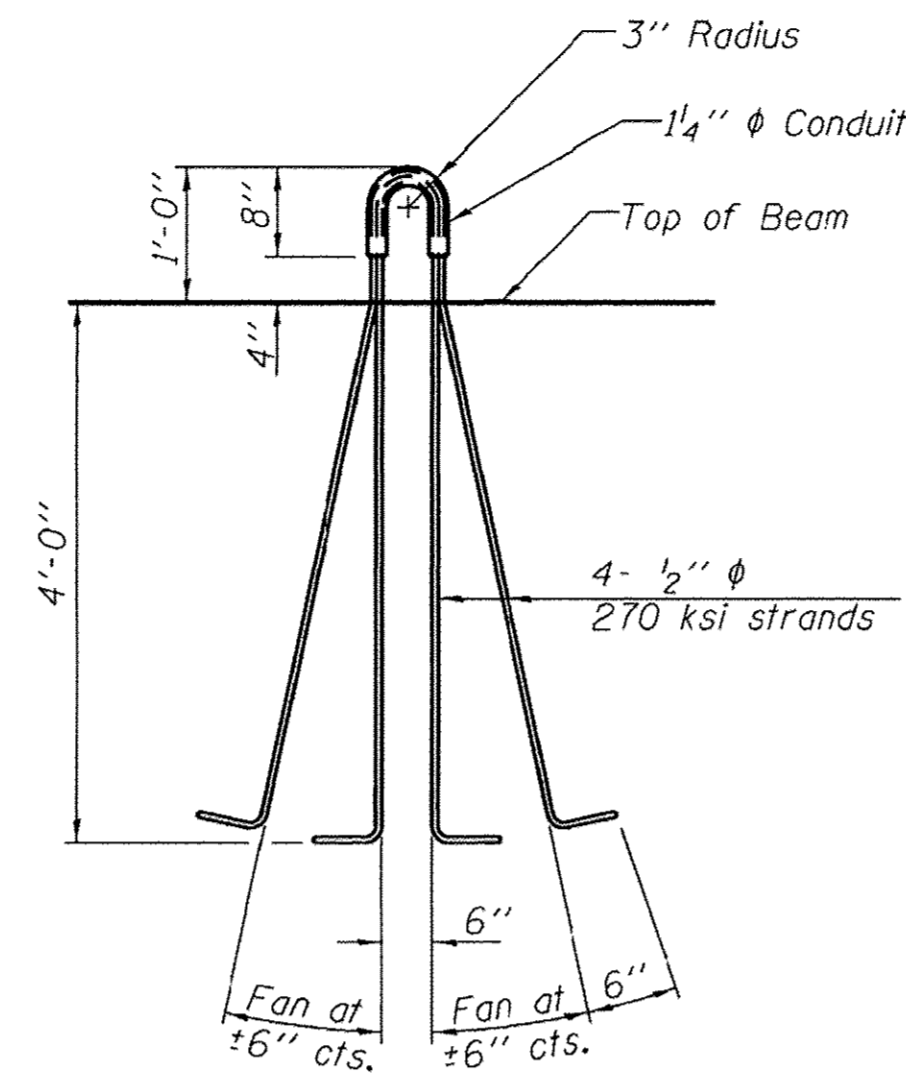
SHEET 12 OF 18 SHEETS

F.A.U. RTE. 7411	SECTION 07-00218-00-BR	COUNTY MACON	TOTAL SHEETS 51	SHEET NO. 24
				CONTRACT NO. 95759
ILLINOIS FED. AID PROJECT				

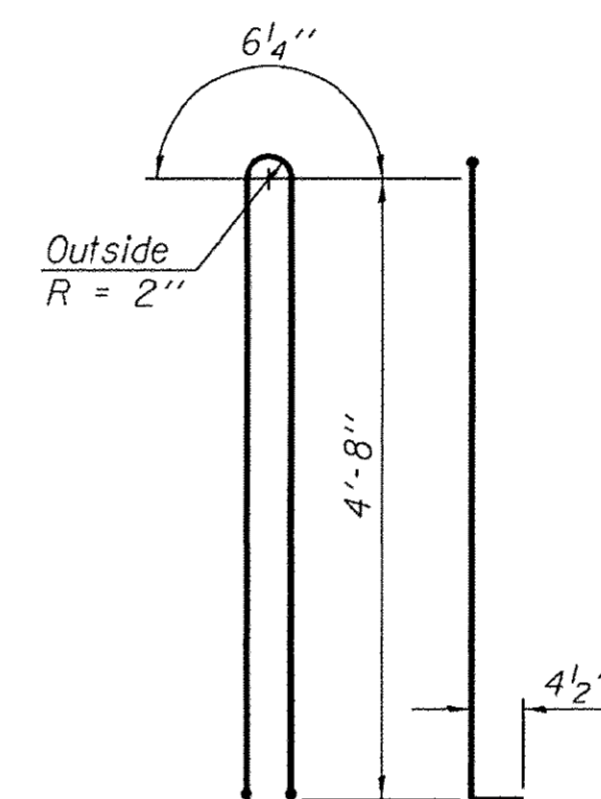




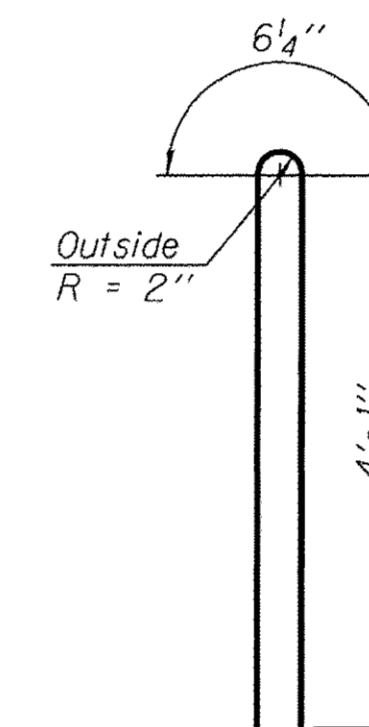
**END OF BEAM DETAIL**



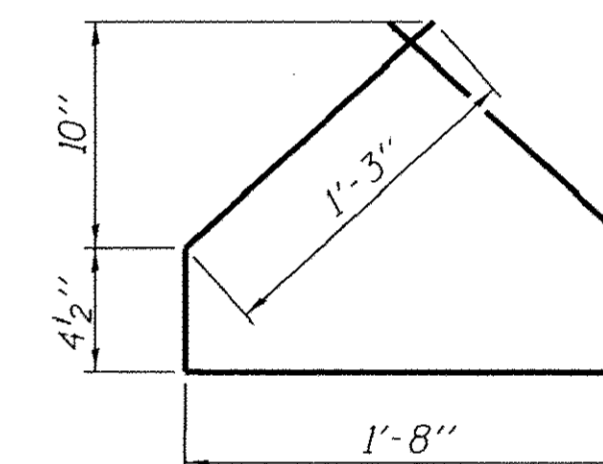
**LIFTING LOOP DETAIL**



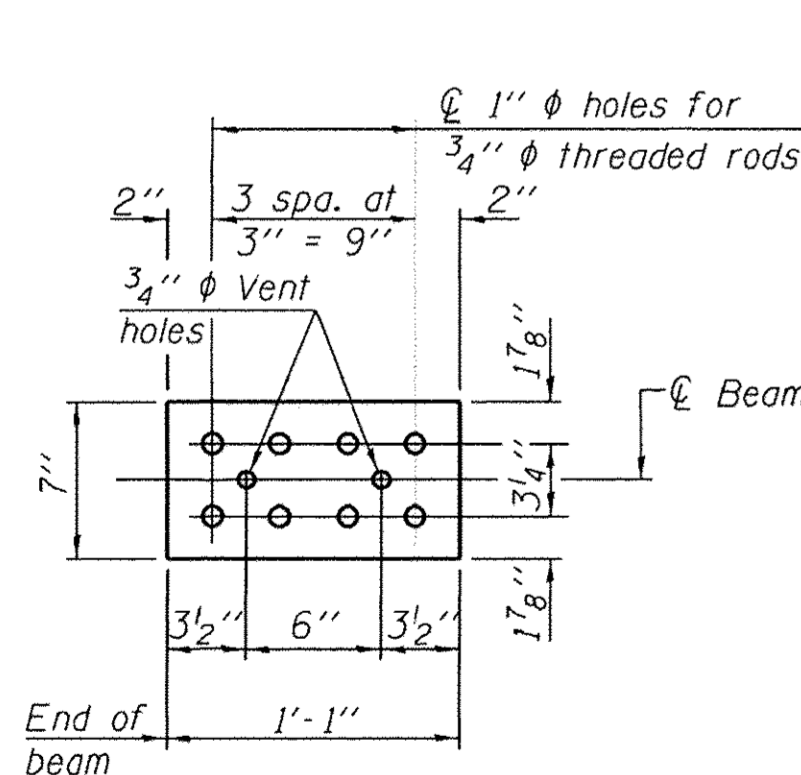
**BAR G1(E)**



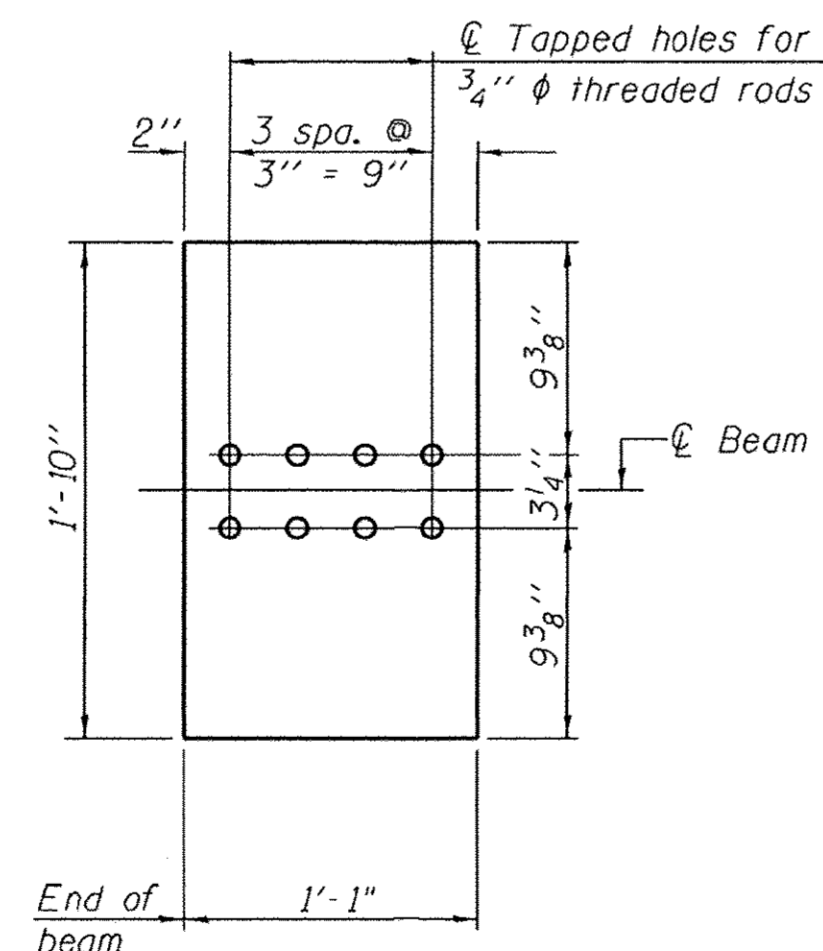
**BAR G2(E)**



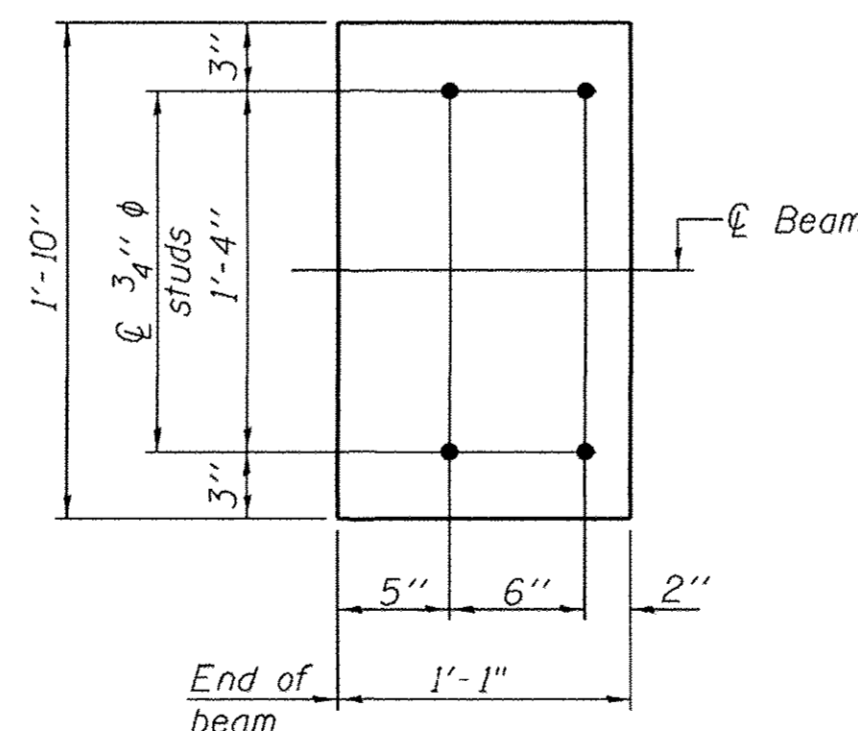
**BAR G4(E)**



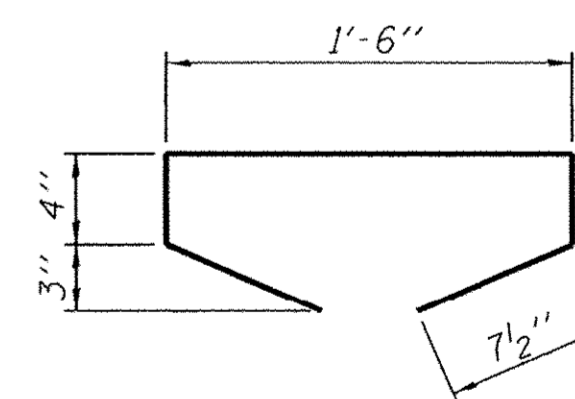
**TOP PLATE**



**BOTTOM PLATE**  
(Showing threaded rods)



**BOTTOM PLATE**  
(Showing studs)



**BAR G5(E)**

**NOTES**

Inserts for 3/4"  $\phi$  threaded dowel rods, when specified, are to be two strut, ferrule type for interior beams and single ferrule, flared loop type for exterior beams. Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. Reinforcement bars shall conform to ASTM A 706, Grade 60. (See Special Provisions). A minimum 2 1/2"  $\phi$  lifting pin shall be used to engage the lifting loops during handling. The top and bottom plates shall be AASHTO M270 Grade 50. The top and bottom plates shall be galvanized according to AASHTO M111. The threaded rods, nuts and washers shall be galvanized according to AASHTO M232. Threaded rods shall be ASTM F 1554 Grade 55. Beams shall not be released from the fabricator until they have attained 45 days of age or older.

**BILL OF MATERIAL**

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 54"	Ft.	497.0

PI-4-54D

11-22-16

FILE NAME = I-BEAM DETAILS.dgn	DESIGNED - MJP	REVISED -
PLOT DATE = 1/18/2017	DRAWN - MJP	REVISED -
PLOT TIME = 1:20:52 PM	CHECKED - KWB	REVISED -
	DATE - 1/16/17	REVISED -

**URS** 345 EAST ASH AVE., SUITE B  
DECATUR, ILLINOIS 62526  
PH. 217-875-4800

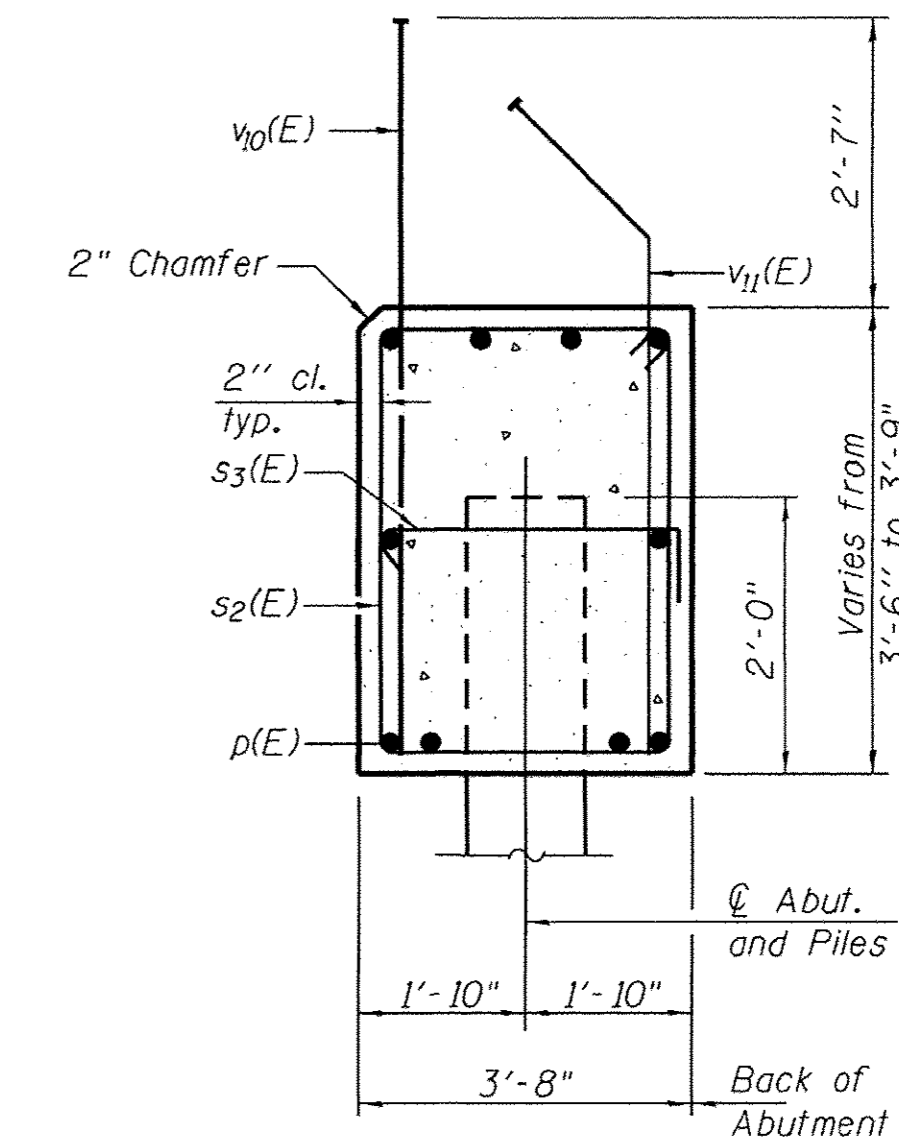
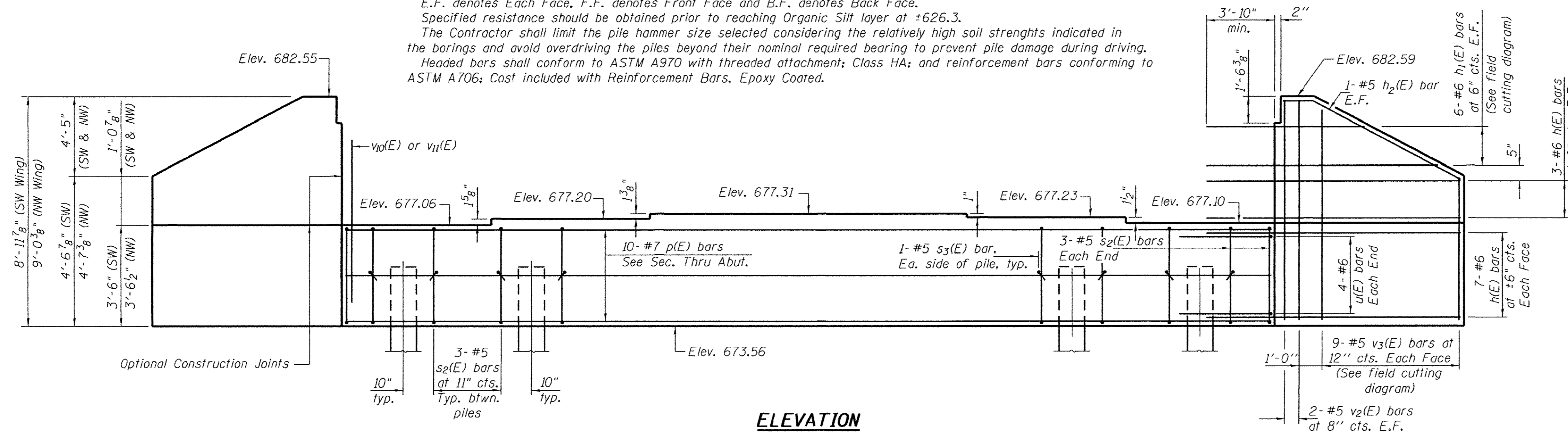
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**54" PPC I-BEAM DETAILS**  
**STRUCTURE NO. 058-3399**

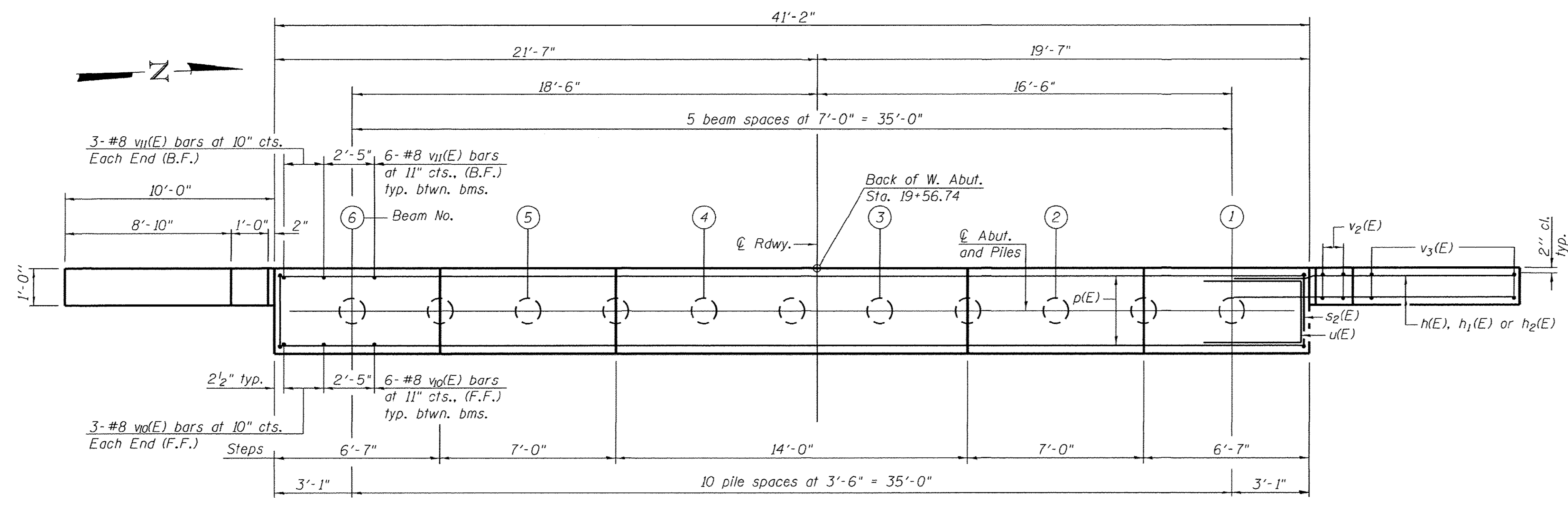
SHEET 13 OF 18 SHEETS

F.A.U. RTE. 7411	SECTION 07-00218-00-BR	COUNTY MACON	TOTAL SHEETS 51	SHEET NO. 25
ILLINOIS FED. AID PROJECT			CONTRACT NO. 95759	

Notes:  
 Pour steps monolithically with cap.  
 E.F. denotes Each Face, F.F. denotes Front Face and B.F. denotes Back Face.  
 Specified resistance should be obtained prior to reaching Organic Silt layer at +626.3.  
 The Contractor shall limit the pile hammer size selected considering the relatively high soil strengths indicated in the borings and avoid overdriving the piles beyond their nominal required bearing to prevent pile damage during driving.  
 Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706; Cast included with Reinforcement Bars, Epoxy Coated.



SEC. THRU ABUT.  
 (Looking South)



PLAN

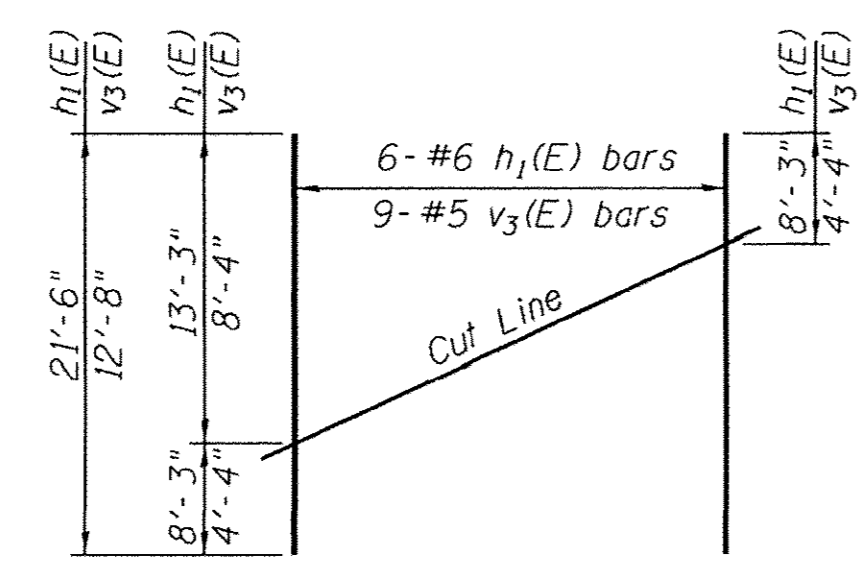
BILL OF MATERIAL  
 WEST ABUTMENT

Bar	No.	Size	Length	Shape
h(E)	40	#6	13'-8"	—
h1(E)	12	#6	21'-6"	—
h2(E)	4	#5	10'-7"	—
p(E)	10	#7	40'-10"	—
s2(E)	36	#5	13'-11"	□
s3(E)	22	#5	4'-4"	┌
u(E)	8	#6	11'-0"	└
v2(E)	8	#5	8'-8"	—
v3(E)	18	#5	12'-8"	—
v0(E)	36	#8	5'-11"	—
v1(E)	36	#8	6'-5"	—
Concrete Structures		Cu. Yd.	25.6	
Reinforcement Bars, Epoxy Coated		Pound	4,340	
Furnishing Metal Shell Piles 12" x 0.250"		Foot	210	
Driving Piles		Foot	210	
Test Pile Metal Shells		Each	1	

For details of piles see sheet 16 of 18.

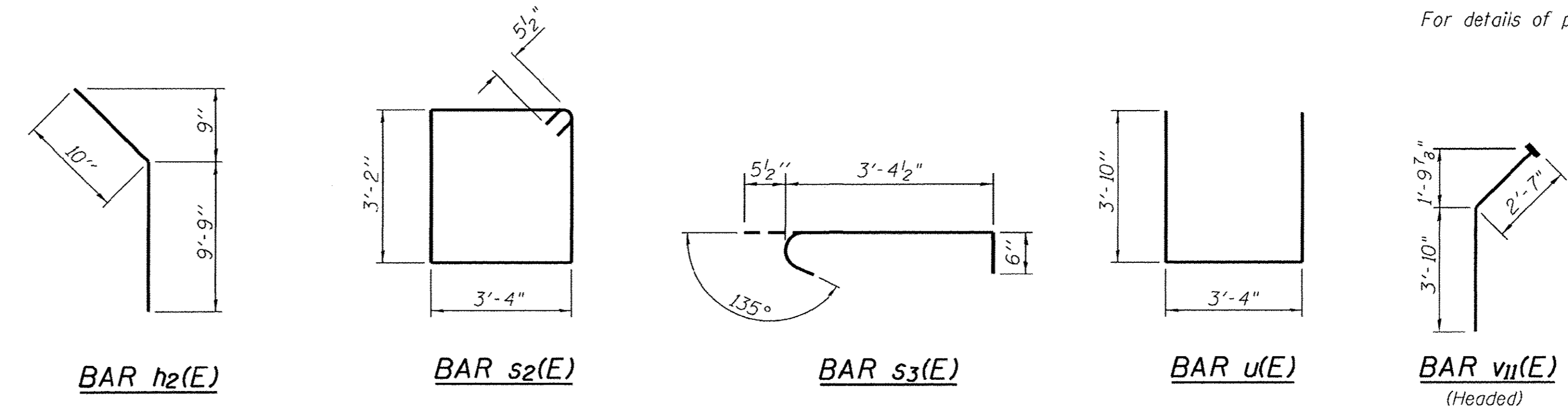
PILE DATA

Type: Metal Shell Piles 12" x 0.250"  
 Nominal Required Bearing: Min. 255 Kips\*  
 Factored Resistance Available: Min. 140 Kips\*  
 Est. Length: 21'-0"  
 No. Production Piles: 10  
 No. Test Piles: 1  
 \* Not to Exceed NRB = 355 kips & FRA = 195 kips



FIELD CUTTING DIAGRAM

Order h1(E) and v3(E) full length. Cut as shown and use remainder of bars in opposite face.



AI->40-0

8-31-12

FILE NAME	DESIGNED	REVISED
WEST ABUTMENT.dgn	MJP	-
PLOT DATE = 1/18/2017	MJP	-
PLOT TIME = 1:10:05 PM	KWB	-
	DATE = 1/16/17	REVISED = -

**URS** 345 EAST ASH AVE., SUITE B  
 DECATUR, ILLINOIS 62526  
 PH. 217-875-4800

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

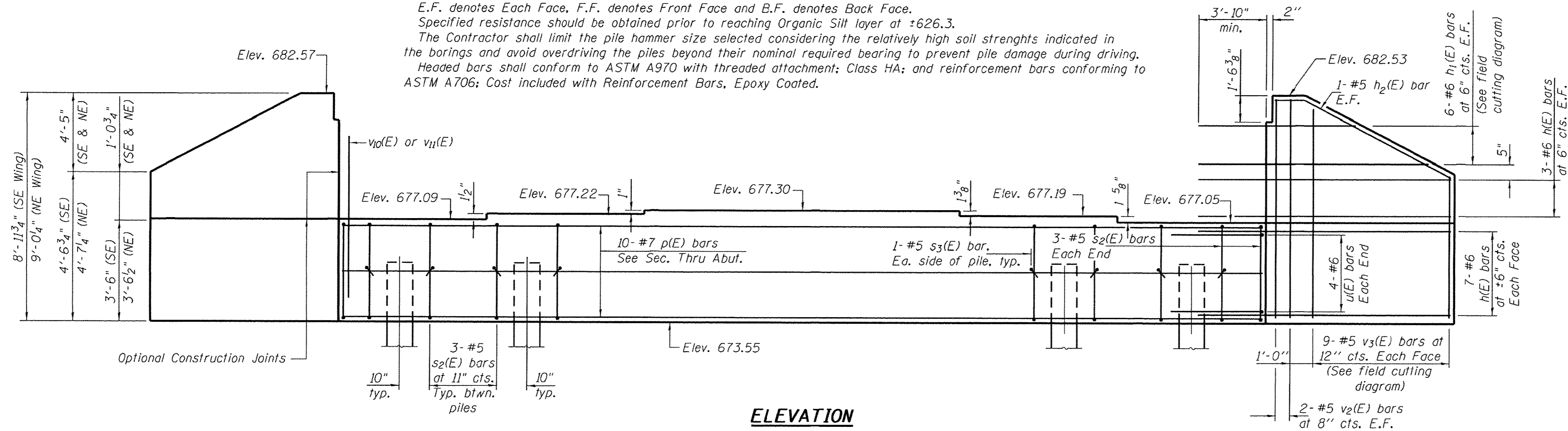
WEST ABUTMENT  
 STRUCTURE NO. 058-3399

SHEET 14 OF 18 SHEETS

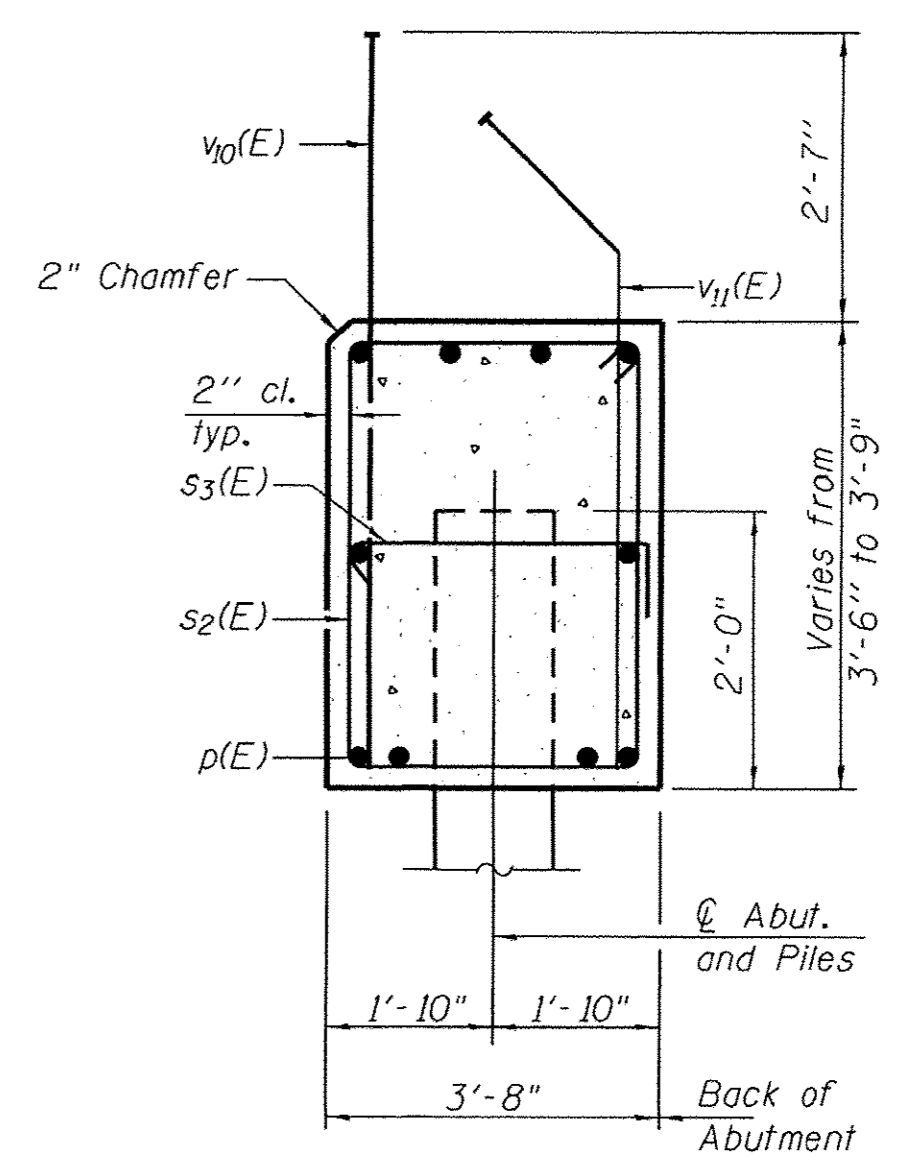
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7411	07-00218-00-BR	MACON	51	26
CONTRACT NO. 95759				
ILLINOIS FED. AID PROJECT				



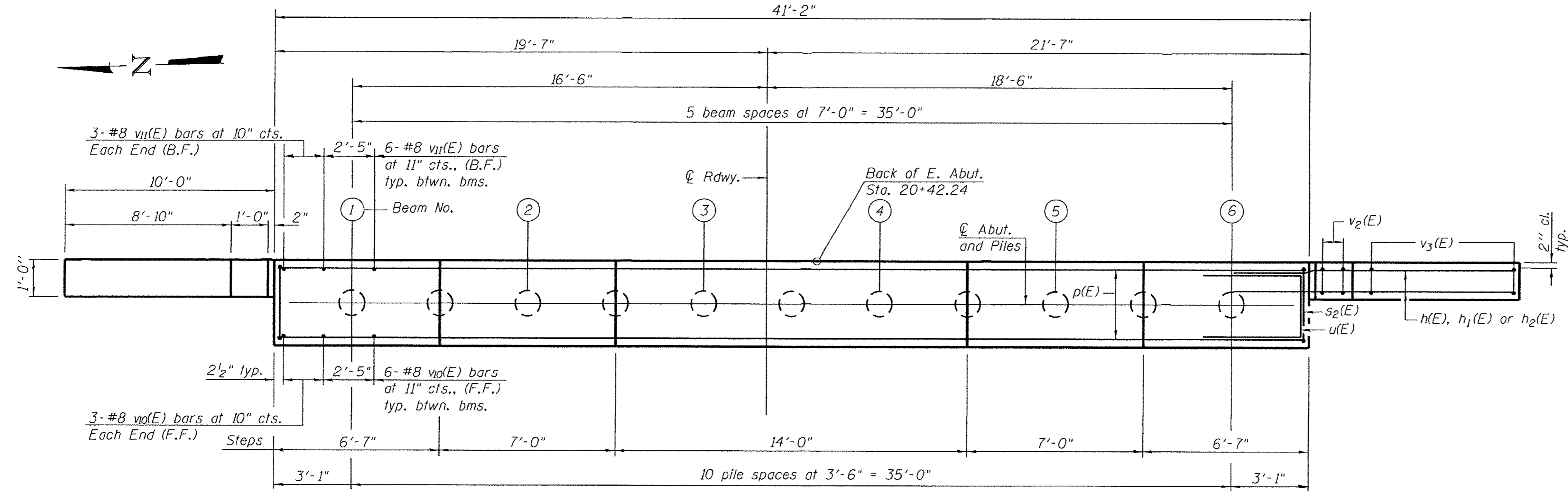
Notes:  
 Pour steps monolithically with cap.  
 E.F. denotes Each Face, F.F. denotes Front Face and B.F. denotes Back Face.  
 Specified resistance should be obtained prior to reaching Organic Silt layer at ±626.3.  
 The Contractor shall limit the pile hammer size selected considering the relatively high soil strengths indicated in the borings and avoid overdriving the piles beyond their nominal required bearing to prevent pile damage during driving.  
 Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706; Cost included with Reinforcement Bars, Epoxy Coated.



**ELEVATION**



**SEC. THRU ABUT.**  
(Looking North)



**PLAN**

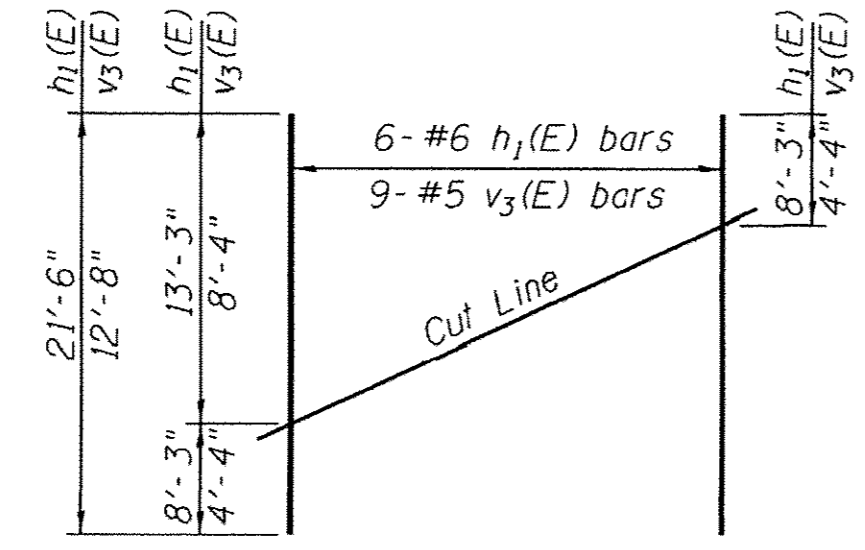
**BILL OF MATERIAL  
EAST ABUTMENT**

Bar	No.	Size	Length	Shape
h(E)	40	#6	13'-8"	—
h1(E)	12	#6	21'-6"	—
h2(E)	4	#5	10'-7"	—
p(E)	10	#7	40'-10"	—
s2(E)	36	#5	13'-11"	⌋
s3(E)	22	#5	4'-4"	⌋
u(E)	8	#6	11'-0"	⌋
v2(E)	8	#5	8'-8"	—
v3(E)	18	#5	12'-8"	—
v10(E)	36	#8	5'-11"	—
v11(E)	36	#8	6'-5"	—
Concrete Structures		Cu. Yd.	25.6	
Reinforcement Bars, Epoxy Coated		Pound	4,340	
Furnishing Metal Shell Piles 12" x 0.250"		Foot	240	
Driving Piles		Foot	240	
Test Pile Metal Shells		Each	1	

For details of piles see sheet 16 of 18.

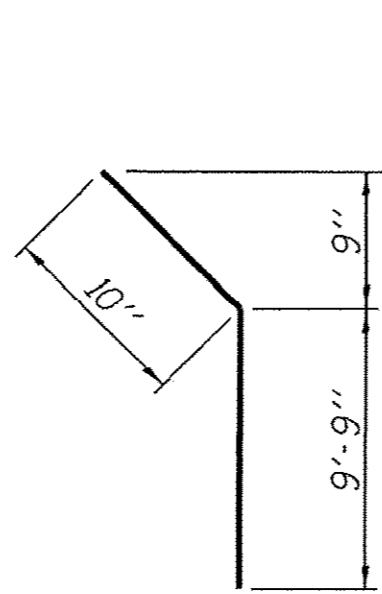
**PILE DATA**

Type: Metal Shell Piles 12" x 0.250"  
 Nominal Required Bearing: Min. 255 Kips\*  
 Factored Resistance Available: Min. 140 Kips\*  
 Est. Length: 24'-0"  
 No. Production Piles: 10  
 No. Test Piles: 1  
 \* Not to Exceed NRB = 355 kips & FRA = 195 kips

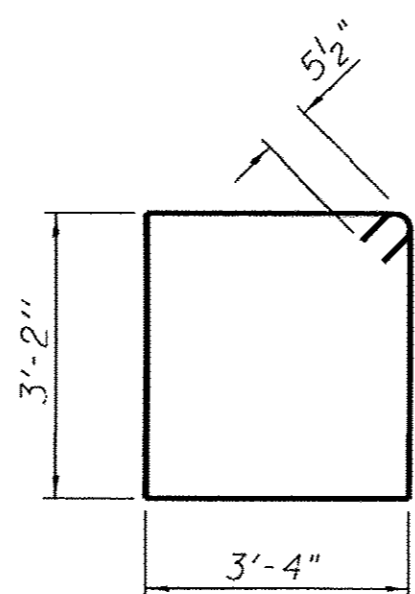


**FIELD CUTTING DIAGRAM**

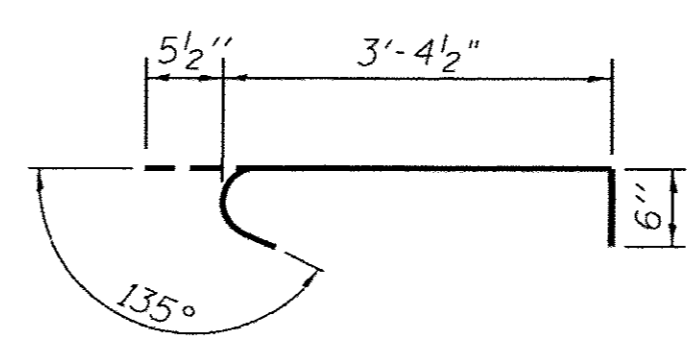
Order h1(E) and v3(E) full length. Cut as shown and use remainder of bars in opposite face.



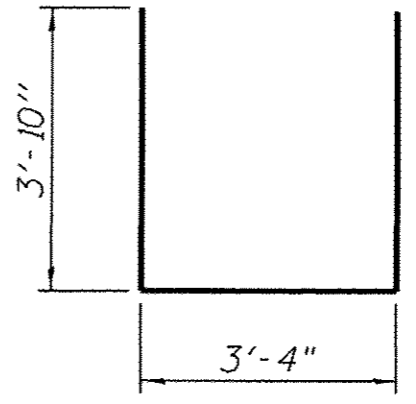
**BAR h2(E)**



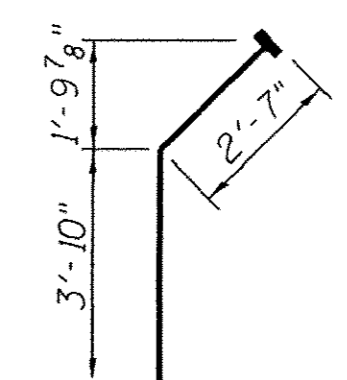
**BAR s2(E)**



**BAR s3(E)**



**BAR u(E)**



**BAR v11(E)**  
(Headed)

AI->40-0

8-31-12

FILE NAME = EAST ABUTMENT.dgn	DESIGNED - MJP	REVISED -
PLOT DATE = 1/18/2017	DRAWN - MJP	REVISED -
PLOT TIME = 1:11:50 PM	CHECKED - KWB	REVISED -
	DATE - 1/16/17	REVISED -

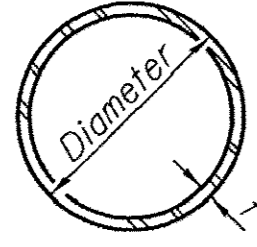
**URS** 345 EAST ASH AVE., SUITE B  
 DECATUR, ILLINOIS 62526  
 PH. 217-875-4800

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EAST ABUTMENT  
STRUCTURE NO. 058-3399**

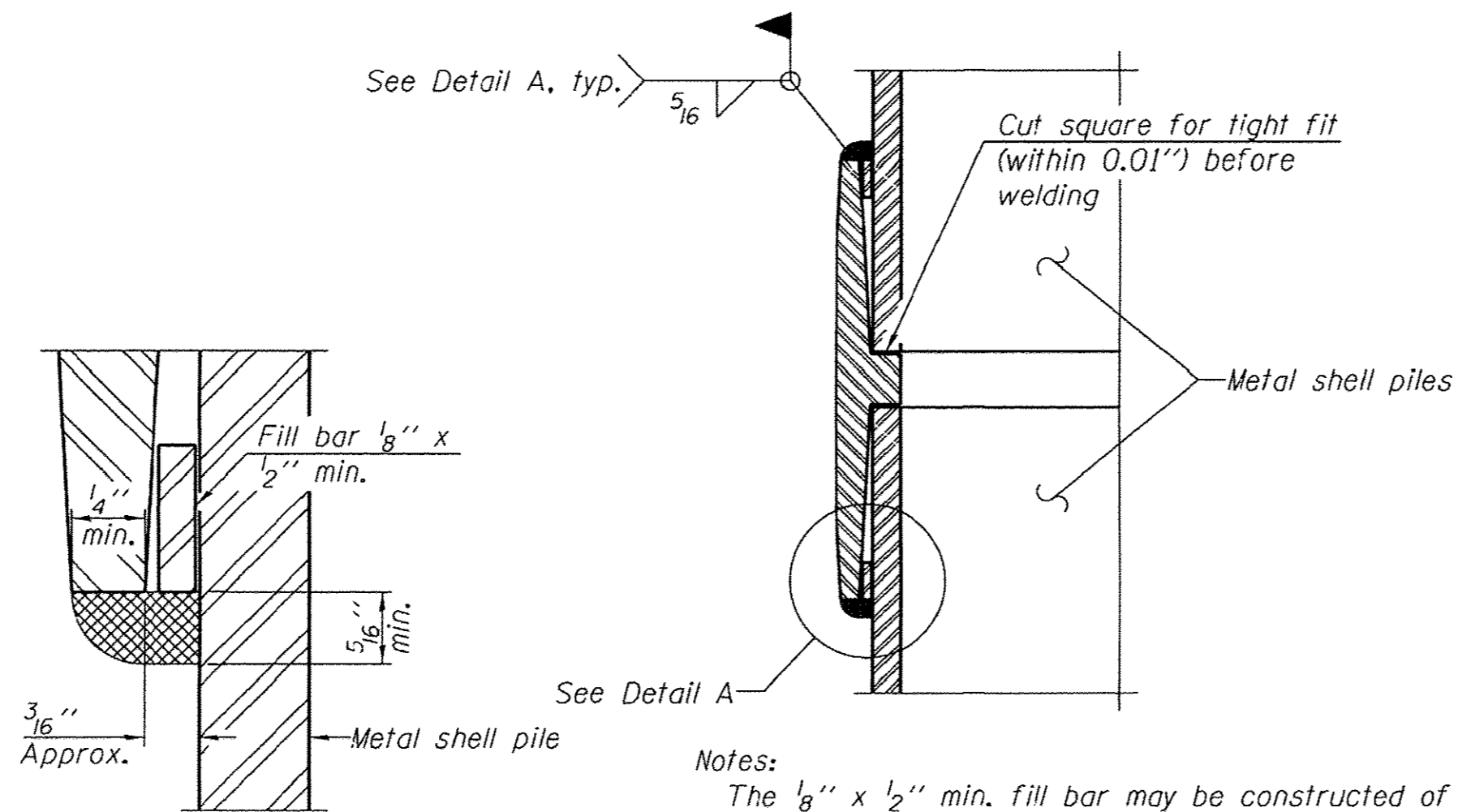
SHEET 15 OF 18 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7411	07-00218-00-BR	MACON	51	27
				CONTRACT NO. 95759
ILLINOIS FED. AID PROJECT				



**METAL SHELL PILE TABLE**

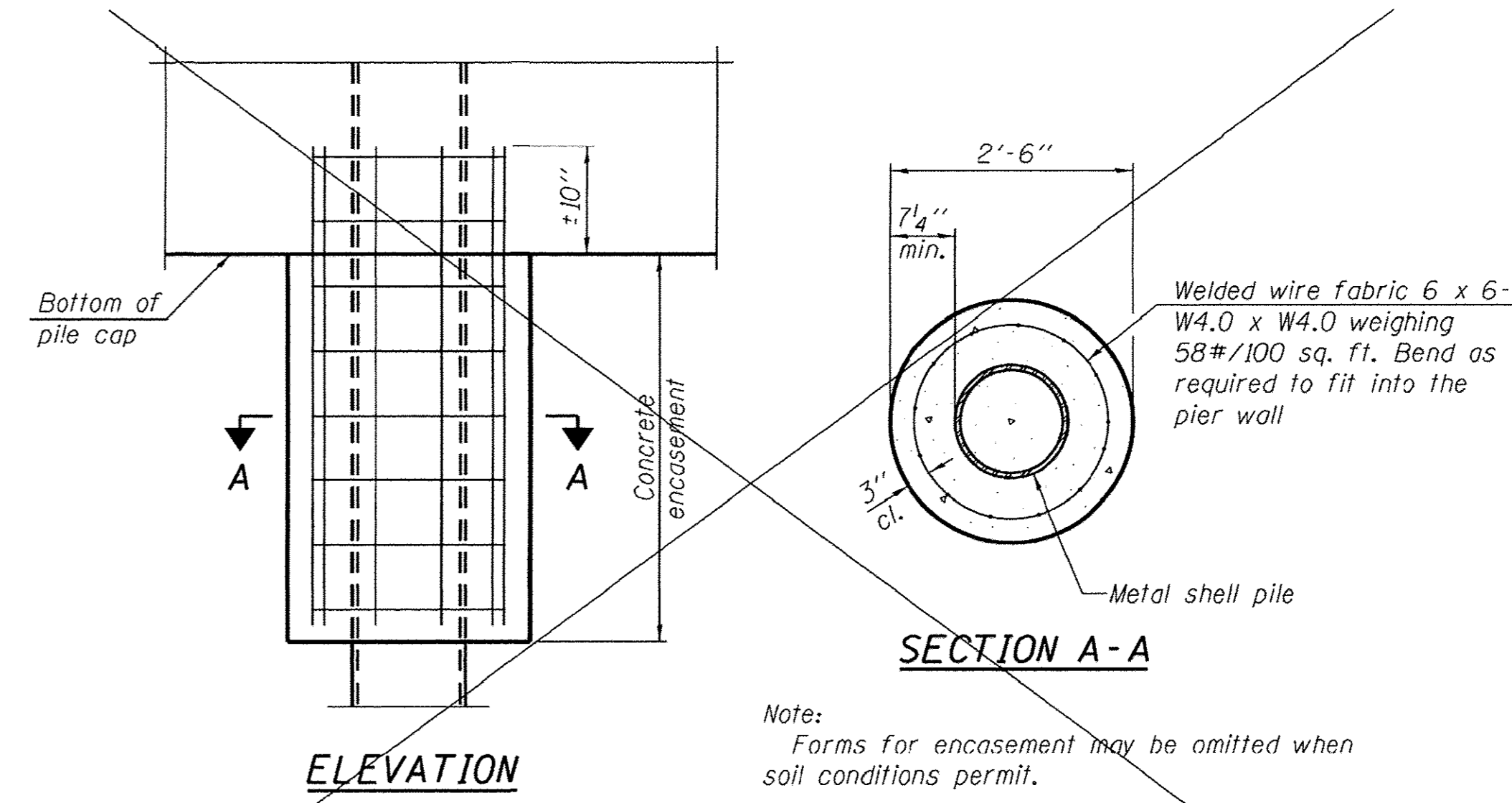
Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. <sup>3</sup> /ft.)
PP12	0.179"	22.60	0.0274
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361



**DETAIL A**

**WELDED COMMERCIAL SPLICE**

Notes:  
 The 1/8" x 1/2" min. fill bar may be constructed of 2 bars with a 1/8" max. gap between them.  
 Pile segments shall be driven to solid contact with splicer before welding.

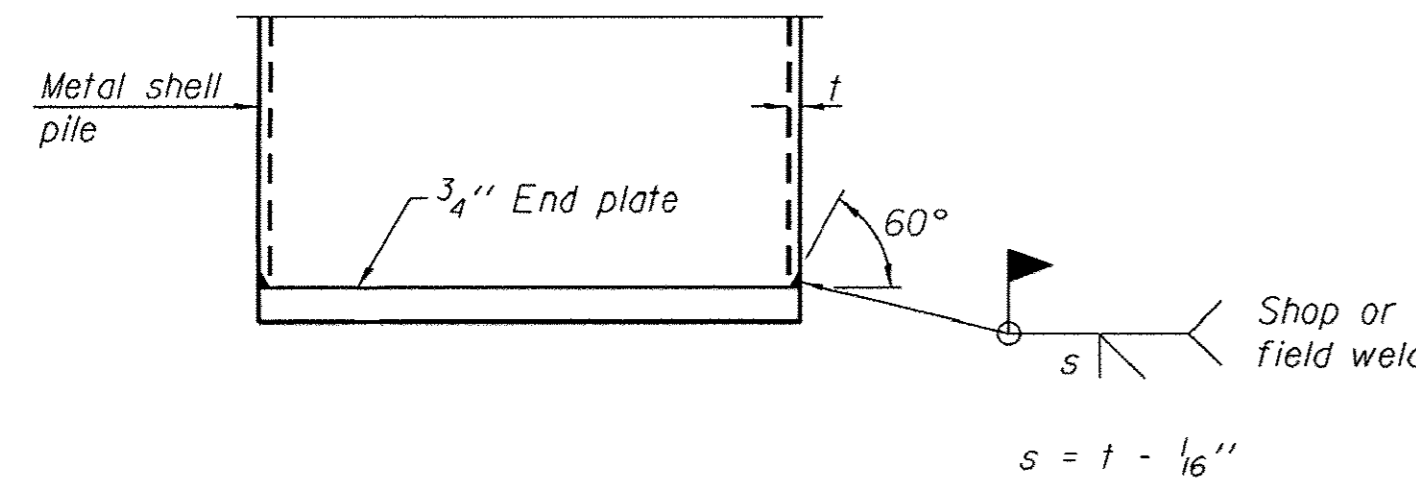


**ELEVATION**

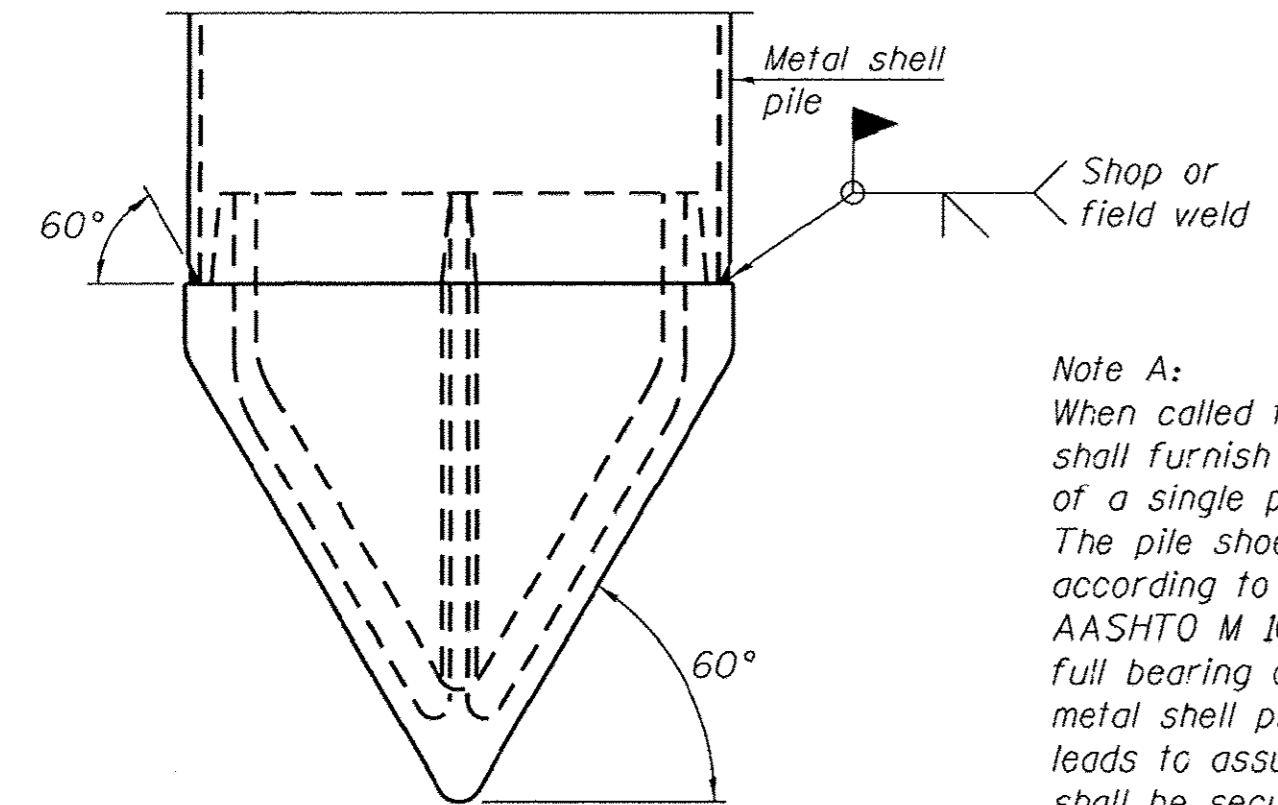
**SECTION A-A**

Note:  
Forms for encasement may be omitted when soil conditions permit.

**CONCRETE ENCASEMENT AT PIERS**



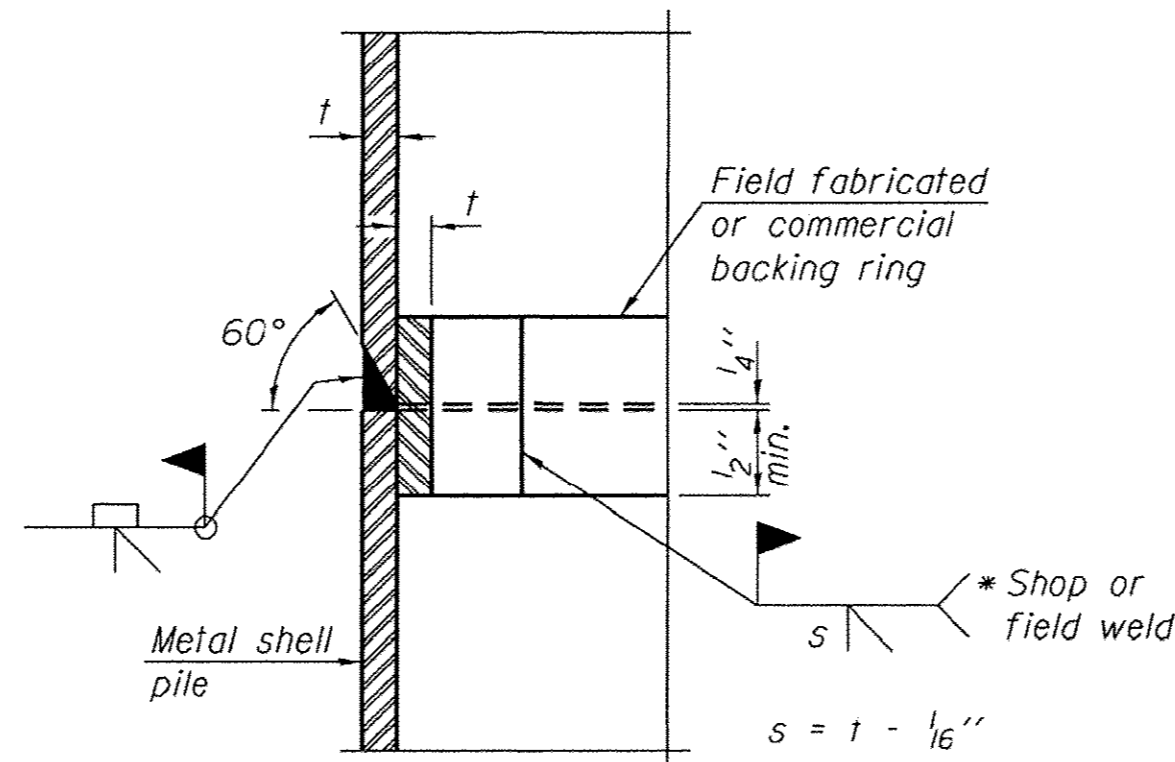
**END PLATE ATTACHMENT**



**METAL SHELL PILE SHOE ATTACHMENT**

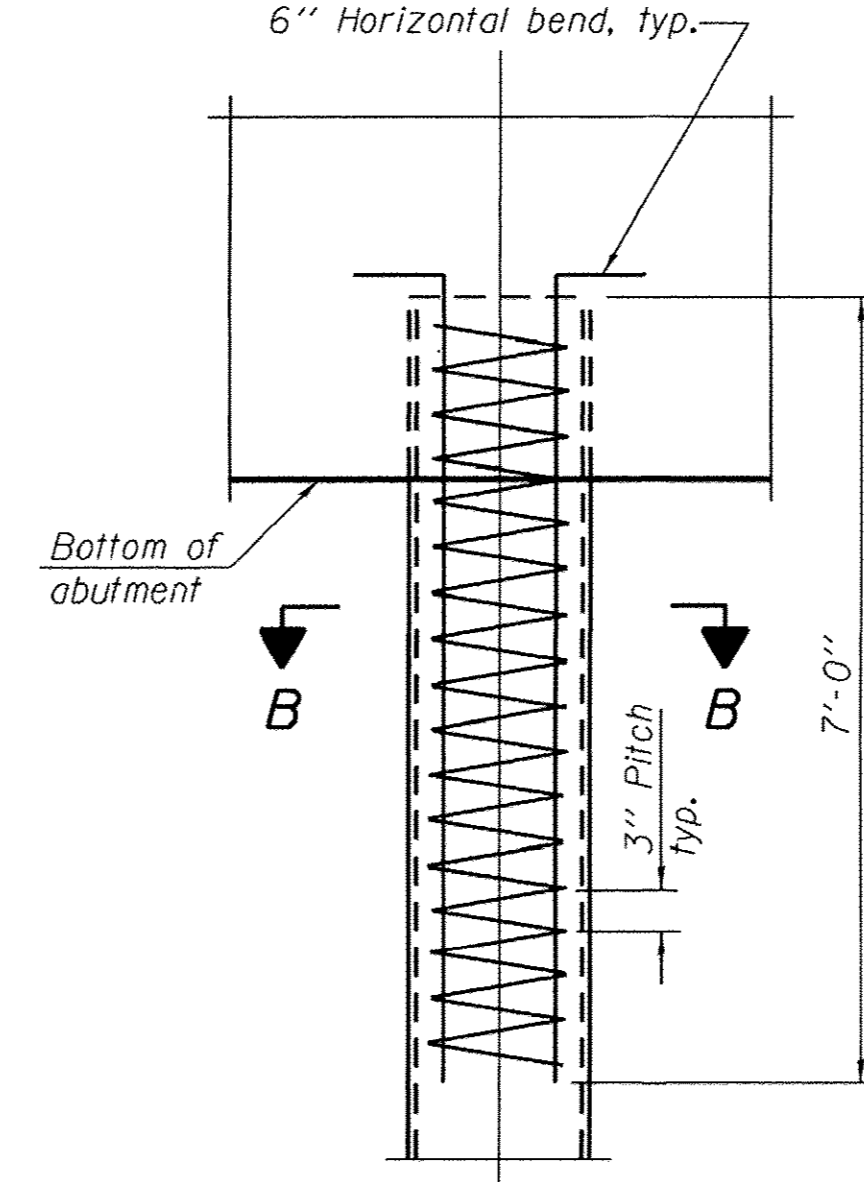
(See Note A)

Note A:  
 When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 90-60 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld.

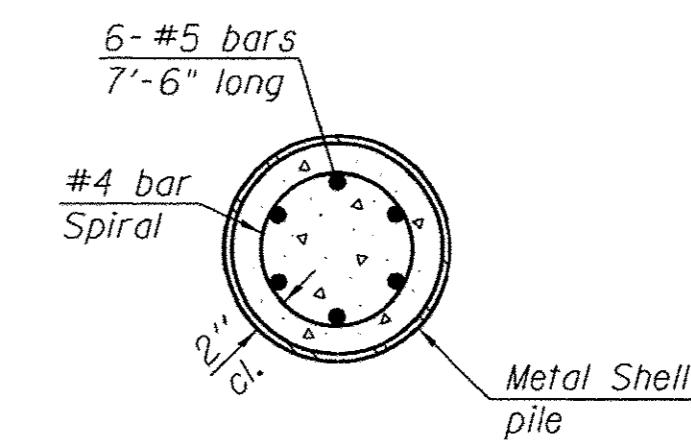


**COMPLETE PENETRATION WELD SPLICE**

\* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



**ELEVATION**



**SECTION B-B**

**METAL SHELL REINFORCEMENT AT ABUTMENTS**

Note:  
 The metal shell piles shall be according to ASTM A 252 Grade 3.

F-MS 1-27-12

FILE NAME = PILE DETAILS.dgn	DESIGNED - MJP	REVISED -
PLOT DATE = 1/18/2017	DRAWN - MJP	REVISED -
PLOT TIME = 1:12:45 PM	CHECKED - KWB	REVISED -
	DATE - 10/30/14	REVISED -

**URS** 345 EAST ASH AVE., SUITE B  
 DECATUR, ILLINOIS 62526  
 PH. 217-875-4800

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**METAL SHELL PILE DETAILS  
 STRUCTURE NO. 058-3399**

SHEET 16 OF 18 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7411	07-00218-00-BR	MACON	51	28
CONTRACT NO. 95759				
ILLINOIS FED. AID PROJECT				



**SOIL BORING LOG**

ROUTE \_\_\_\_\_ DESCRIPTION BRIDGE BORINGS LOGGED BY CH,CM  
SECTION \_\_\_\_\_ LOCATION SEFTON ROAD, MACON COUNTY, IL  
COUNTY MACON STRUCTURE NO. SN 058-3020 (Exist) X (Prop.)  
BORING NO. B-1 DRILLING METHOD HOLLOW STEM HAMMER TYPE 140# SAFETY HAMMER

Station	Offset	Ground Surface Elev.	SOIL DESCRIPTION	(ft.)	(ft.)	/6"	(tsf)	(%)	SOIL DESCRIPTION	(ft.)	(ft.)	/6"	(tsf)	(%)
19+82.2	13.3'R	671.29 (ft.)	6" ASPHALT											
			SILTY CLAY - A-4 Dark Brown, moist, firm-stiff, low plasticity, little sand, trace gravel -stiff		6 4 4			17.2						
			SANDY LOAM - A-2-4 Brown, moist, loose, fine-coarse, trace gravel		5 6 7			18.7	SAND - A-3 Gray, saturated, medium dense, fine-coarse -dense		19 10 15 20			2.9 13.1
			SANDY LOAM - A-2-4 Brown, moist, loose, fine-coarse, trace gravel		2 2 3			19.7			7 11 6			
			CLAY - A-6 Gray, moist, very stiff, low plasticity, with sand, trace gravel (*)free water @ 12.5 ft.		10 1 2 3			19.8	ORGANIC SILT - A-8 Dark Gray, moist, hard, low plasticity		40 6 16 23			
			SANDY LOAM - A-2-4 Brown, moist, loose, fine-coarse, trace gravel		5 9 8			13.3			7 15 25			51.3
			SANDY LOAM - A-2-4 Gray, moist, very dense, fine		15 8 14		3.4	8.8			45 14 28 32-5			79.2
			SANDY LOAM - A-2-4 Gray, moist, very dense, fine		8 17 12			14.8			12 15 15		1.8	35.2
			CLAY - A-6 Gray, moist, stiff, low plasticity, trace sand, trace gravel -very stiff		20 8 17 14			9.3			50 8 12 14		2.6	28.1
			CLAY - A-6 Gray, moist, stiff, low plasticity, trace sand, trace gravel -stiff-very stiff		8 13 35		5.1	11.6			4 7 8			18.1
			CLAY - A-6 Gray, moist, hard, low plasticity, with sand, trace gravel		25 32 45 15-1			16.7			55 4 9 16		1.4	14.6
			CLAY - A-6 Gray, moist, hard, low plasticity, with sand, trace gravel		9 17 25		3.4	13.7			13 23 22		2.2	12.2
			CLAY - A-6 Gray, moist, hard, low plasticity, with sand, trace gravel		30 11 16 21		4.7	12.4			60 38 50 10-1			10.8
					9 14		4.3	11.3						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).  
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)

**SOIL BORING LOG**

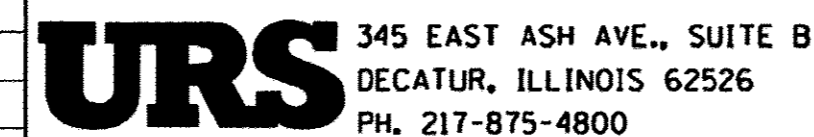
ROUTE \_\_\_\_\_ DESCRIPTION BRIDGE BORINGS LOGGED BY CH,CM  
SECTION \_\_\_\_\_ LOCATION SEFTON ROAD, MACON COUNTY, IL  
COUNTY MACON STRUCTURE NO. SN 058-3020 (Exist) X (Prop.)  
BORING NO. B-2 DRILLING METHOD HOLLOW STEM HAMMER TYPE 140# SAFETY HAMMER

Station	Offset	Ground Surface Elev.	SOIL DESCRIPTION	(ft.)	(ft.)	/6"	(tsf)	(%)	SOIL DESCRIPTION	(ft.)	(ft.)	/6"	(tsf)	(%)
20+17.5	2'L	671.25 (ft.)	12" ASPHALT											
			SILTY CLAY - A-4 Brown, moist, very stiff, low plasticity, trace sand, trace gravel		8 11 12		3.6	15.5						
			SANDY LOAM - A-2-4 Brown, moist, loose, fine-coarse, trace gravel		5 6 11			17.7	SAND - A-3 Gray, wet, dense, fine-medium		23 10 17 25			2.4 13.4
			SANDY LOAM - A-2-4 Brown, moist, loose, fine-coarse, trace gravel		2 3 5		.5	19.7	SAND - A-1-b Gray, wet, medium dense, fine-coarse, trace gravel		10 21 10			
			SANDY LOAM - A-2-4 Dark Gray, moist, stiff, low plasticity (*)free water @ 11.5 ft.		10 3 4 8		.9	23.9	ORGANIC SILT - A-8 Dark Gray, moist, very stiff, low plasticity -hard		40 8 10 13			
			CLAY - A-6 Gray, moist, stiff, low plasticity, little sand, trace gravel		4 4 5		.8	15.0			9 14 14			28.0
			CLAY - A-6 Gray, moist, stiff, low plasticity, little sand, trace gravel		15 2 5 6		1.0	14.1			45 10 22 34			62.2
			-very stiff		5 10 15		2.8	12.3			17 16 18			37.7
			-hard		20 10 17 20		2.8	13.5			17 16 18			25.9
			CLAY - A-6 Dark Gray, moist, hard, low plasticity, trace sand, trace gravel		11 21 30		9.4	11.8			50 10 16 16			17.3
			SANDY LOAM - A-2-4 Gray, moist, stiff, low plasticity, little sand, trace gravel -stiff-very stiff		25 20 29 31-5		9.7	11.3			3 5 10		1.7	17.3
			CLAY - A-6 Gray, moist, hard, low plasticity, with sand, trace gravel		30 11 16 20		3.6	12.3			55 6 6 10		.6	16.7
			CLAY - A-6 Gray, moist, hard, low plasticity, with sand, trace gravel		9 17 25		3.4	13.7			12 17 23		2.9	12.7
			CLAY - A-6 Gray, moist, hard, low plasticity, with sand, trace gravel		11 16 21		4.7	12.4			60 19 38 22-3		7.1	10.0
					9 14		4.3	11.3						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).  
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)

FILE NAME = BORING.LOG.1.dgn	DESIGNED - MJP	REVISED -
PLOT DATE = 1/18/2017	DRAWN - MJP	REVISED -
PLOT TIME = 1:43:30 PM	CHECKED - KWB	REVISED -
	DATE - 10/30/14	REVISED -



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS  
STRUCTURE NO. 058-3399

SHEET 17 OF 18 SHEETS

F-A.U. RTE. 7411	SECTION 07-00218-00-BR	COUNTY MACON	TOTAL SHEETS 51	SHEET NO. 29
CONTRACT NO. 95759				
ILLINOIS FED. AID PROJECT				

**SOIL BORING LOG**

ROUTE \_\_\_\_\_ DESCRIPTION BRIDGE BORINGS LOGGED BY CH  
SECTION \_\_\_\_\_ LOCATION SEFTON ROAD, MACON COUNTY, IL  
COUNTY MACON STRUCTURE NO. SN 058-3020 (Exist) X (Prop.)  
BORING NO. B-3 DRILLING METHOD HOLLOW STEM HAMMER TYPE 140# SAFETY HAMMER

Station 20+41.9					Surface Water Elev. 661.7 (ft.)						
Offset 8'R					Groundwater Elev. 647.9 (ft.)						
Ground Surface Elev. 671.4 (ft.)					First Encounter _____ (ft.)						
					Upon Completion _____ (ft.)						
					After _____ Hrs. _____ (ft.)						
SOIL DESCRIPTION	(ft.)	(ft.)	/6"	(tsf)	(%)	SOIL DESCRIPTION	(ft.)	(ft.)	/6"	(tsf)	(%)
6" ASPHALT							19				
							35	6		4.6	12.8
SILTY CLAY LOAM - A-4		10			10.6		14	19			
Dark brown, moist, firm-stiff, low plasticity, trace sand -stiff	5	7			15.5		20	18			24.4
		8					40	1			
		6					2	6			
SILTY CLAY LOAM - A-4		8		3.0	14.2		15				
Light Gray, moist, very stiff, low plasticity, trace sand	10	5			2.6		28	27			
		7			13.1		45	9			58.2
CLAY - A-6		5					20	34			
Gray, moist, very stiff, low plasticity, little sand, trace gravel		8			13.1		12				
		10					18	23		2.2	30.5
	15	6			2.9		15	11			
		9			13.3		14	17			
		13					50	8		2.7	26.3
		6					11	16		1.4	16.2
-hard	20	26			10.3		11	16			
		21					55	7		1.9	14.1
(*)free water @ 23.5 ft.		11					14	14			
		17			4.1		17	23		4.3	11.9
		21					60	14		5.2	12.9
-6" sand seam	25	16			10.6		25	35			
		20					10	15		3.8	13.8
		10					15	21			
		15					30	12		3.8	12.8
		16					18	20			
		20					13	15		1.9	12.9
		13					15	15			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).  
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)

**SOIL BORING LOG**

ROUTE \_\_\_\_\_ DESCRIPTION BRIDGE BORINGS LOGGED BY CH  
SECTION \_\_\_\_\_ LOCATION SEFTON ROAD, MACON COUNTY, IL  
COUNTY MACON STRUCTURE NO. SN 058-3020 (Exist) X (Prop.)  
BORING NO. B-4 DRILLING METHOD HOLLOW STEM HAMMER TYPE 140# SAFETY HAMMER

Station 19+59.5					Surface Water Elev. 661.7 (ft.)						
Offset 2.1'L					Groundwater Elev. 647.8 (ft.)						
Ground Surface Elev. 671.32 (ft.)					First Encounter _____ (ft.)						
					Upon Completion _____ (ft.)						
					After _____ Hrs. _____ (ft.)						
SOIL DESCRIPTION	(ft.)	(ft.)	/6"	(tsf)	(%)	SOIL DESCRIPTION	(ft.)	(ft.)	/6"	(tsf)	(%)
6" ASPHALT							20				
							35	13			11.9
SILTY LOAM - A-4		9			14.8		19	26			
Dark Brown, moist, very stiff, low plasticity, little sand -firm	5	3			25.4		14	12			
		3			8		30	30			
		4					40	13		.8	15.4
		4					22	28			
CLAY LOAM - A-4		6		1.4	16.6		24				
Gray, moist, stiff, low plasticity, with sand	10	3			1.0		30	18			
		3			18.9		45	11			
CLAY - A-6		5					26	34-5			53.6
Brown-Gray Mix, moist, firm-stiff, low plasticity, little sand, trace gravel		8			13.2		13	16		1.4	41.5
		11					19	20			
SANDY CLAY LOAM - A-2-4		11					15	11			
Gray, moist, hard, low plasticity, trace gravel	15	14			2.8		14	12			
		12					22	31			11.9
		12					27	27			
CLAY - A-6		20			11.8		20	23			
Gray, moist, very stiff, low plasticity, little sand		17			11.8		19	19			
		19					15	21		9.5	9.7
SAND - A-3		15			9.7		27	27			
Gray, moist, very dense, fine		21					25	30			
		27					30	30			
CLAY - A-6		25					13	30			
Gray, moist, hard, low plasticity, little sand, trace gravel		17			14.5		30	30			
(*)free water @ 23.5 ft.		21					13	30			
		27					30	30			
		30					30	30			
SANDY LOAM - A-2-4		30					11	19		2.9	14.5
Gray, saturated, very dense, fine-medium		30					19	24			
		30					13	14		1.8	14.5
SAND - A-3		30					13	14			
Gray, saturated, very dense, fine-medium		30					13	14			
		30					11	19			
CLAY - A-6		30					19	24			
Gray, moist, hard, low plasticity, little sand, trace gravel		30					13	14			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).  
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)

FILE NAME = BORING.LOG.2.dgn	DESIGNED - MJP	REVISED -
PLOT DATE = 1/18/2017	DRAWN - MJP	REVISED -
PLOT TIME = 1:15:25 PM	CHECKED - KWB	REVISED -
	DATE - 10/30/14	REVISED -

**URS** 345 EAST ASH AVE., SUITE B  
DECATUR, ILLINOIS 62526  
PH. 217-875-4800

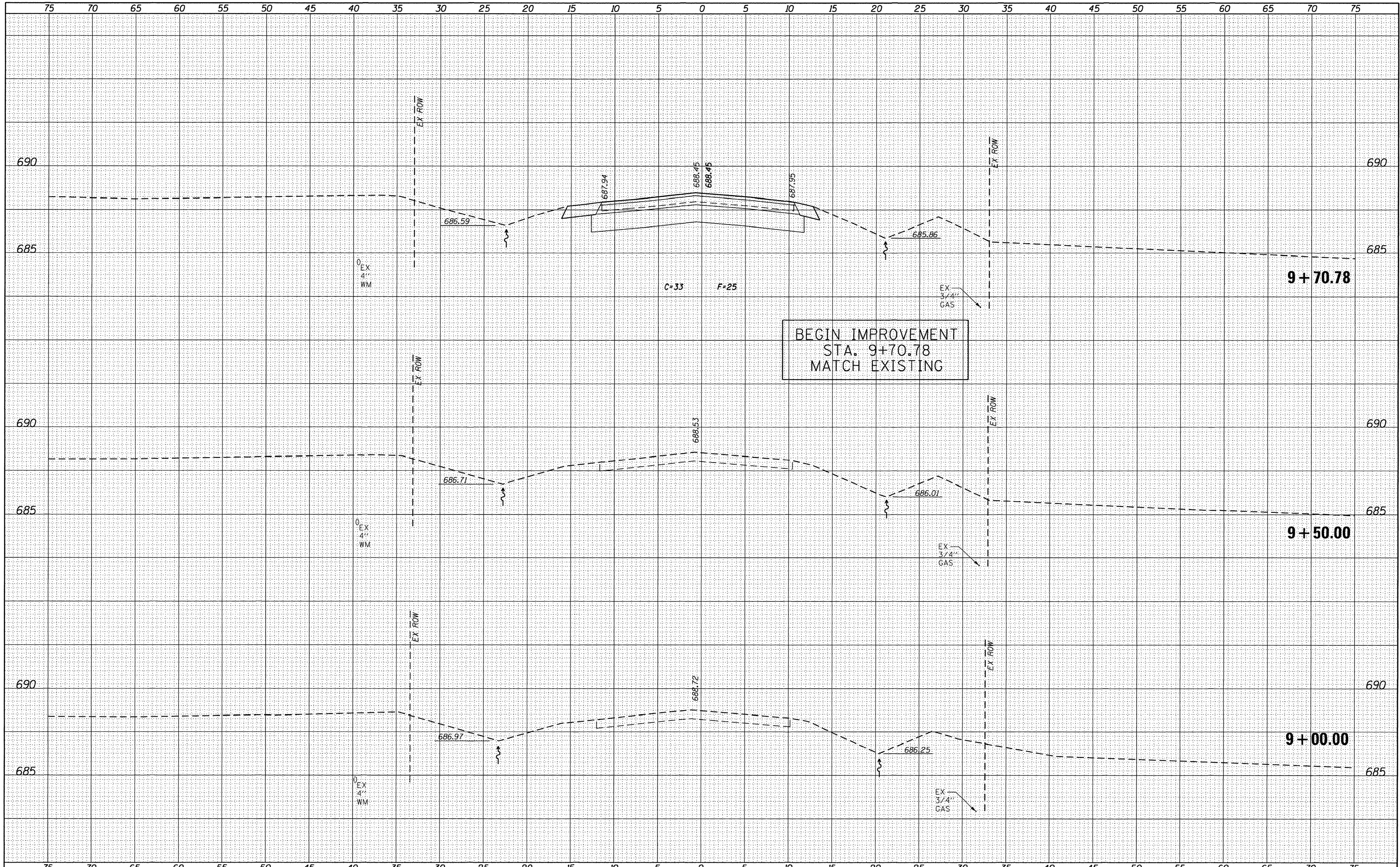
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS  
STRUCTURE NO. 058-3399

SHEET 18 OF 18 SHEETS

F.A.U. RTE. 7411	SECTION 07-00218-00-BR	COUNTY MACON	TOTAL SHEETS 51	SHEET NO. 30
CONTRACT NO. 95759				
ILLINOIS FED. AID PROJECT				





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

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

USER NAME = matt.pope	DESIGNED - MJP	REVISED -
FILE NAME = XSECT.dgn	DRAWN - MJP	REVISED -
PLOT DATE = 2/10/2015	CHECKED - JAC	REVISED -
PLOT TIME = 10:14:59 AM	DATE - 9/23/14	REVISED -

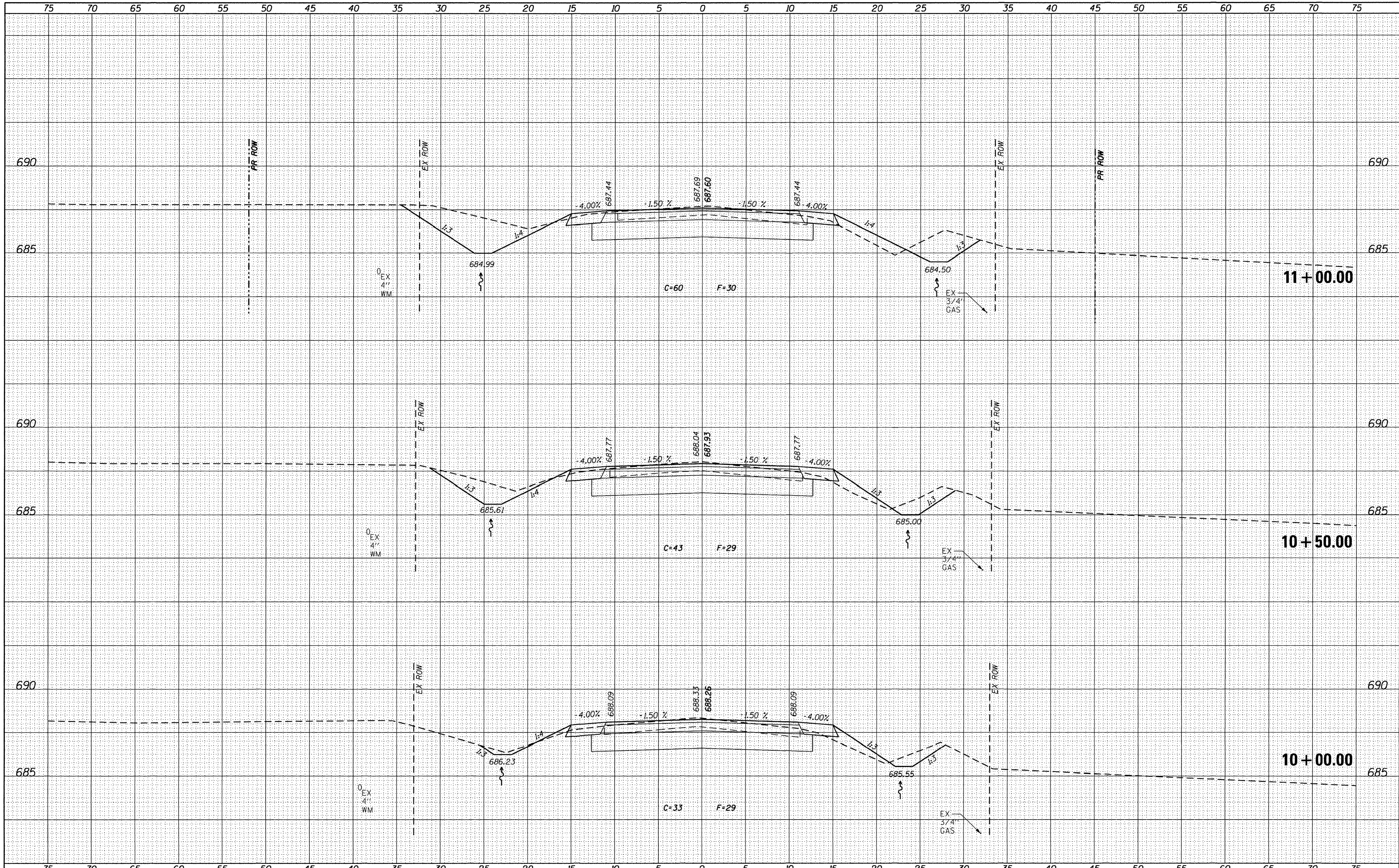
**URS** 345 EAST ASH AVE., SUITE B  
 DECATUR, ILLINOIS 62526  
 PH. 217-875-4800

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**  
**CH 60 (SEFTON ROAD) OVER BIG CREEK**  
 SCALE: 1" = 5' SHEET NO. 1 OF 21 SHEETS STA. 9+00.00 TO STA. 9+70.78

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7411	07-00218-00-BR	MACON	51	31
ILLINOIS FED. AID PROJECT			CONTRACT NO. 95759	





DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
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USER NAME = mott.pope	DESIGNED - MJP	REVISED -
FILE NAME = XSECT.dgn	DRAWN - MJP	REVISED -
PLOT DATE = 2/10/2015	CHECKED - JAC	REVISED -
PLOT TIME = 10:15:45 AM	DATE - 9/23/14	REVISED -

**URS** 345 EAST ASH AVE., SUITE B  
 DECATUR, ILLINOIS 62526  
 PH. 217-875-4800

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

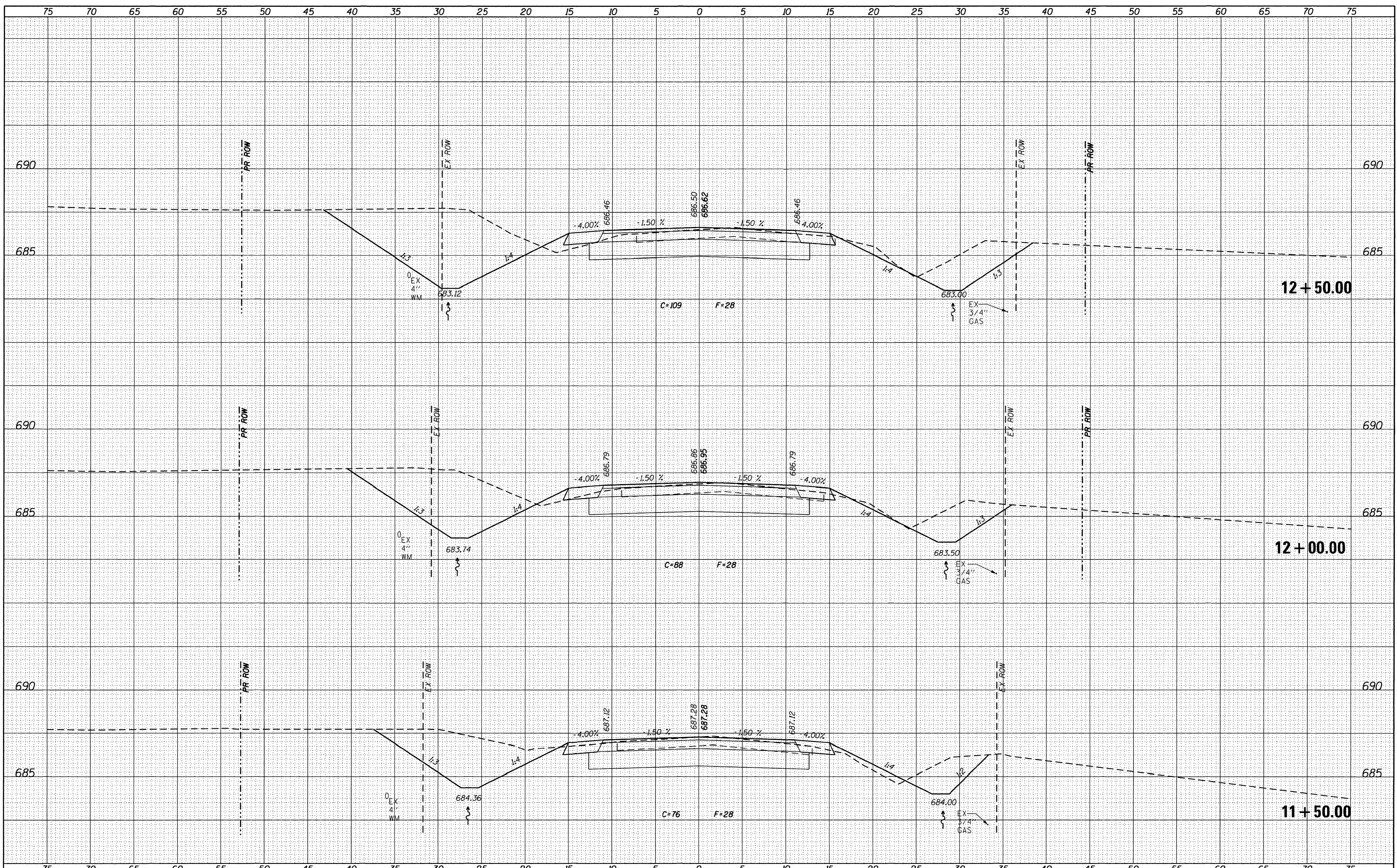
**CROSS SECTIONS**  
**CH 60 (SEFTON ROAD) OVER BIG CREEK**  
 SCALE: 1" = 5' SHEET NO. 2 OF 21 SHEETS STA. 10+00.00 TO STA. 11+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7411	07-00218-00-BR	MACON	51	32
ILLINOIS FED. AID PROJECT			CONTRACT NO. 95759	



DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



USER NAME = matt.pope	DESIGNED - MJP	REVISED -
FILE NAME = XSECT.dgn	DRAWN - MJP	REVISED -
PLOT DATE = 2/17/2017	CHECKED - JAC	REVISED -
PLOT TIME = 3:21:02 PM	DATE - 9/23/14	REVISED -

**URS** 345 EAST ASH AVE., SUITE B  
 DECATUR, ILLINOIS 62526  
 PH. 217-875-4800

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

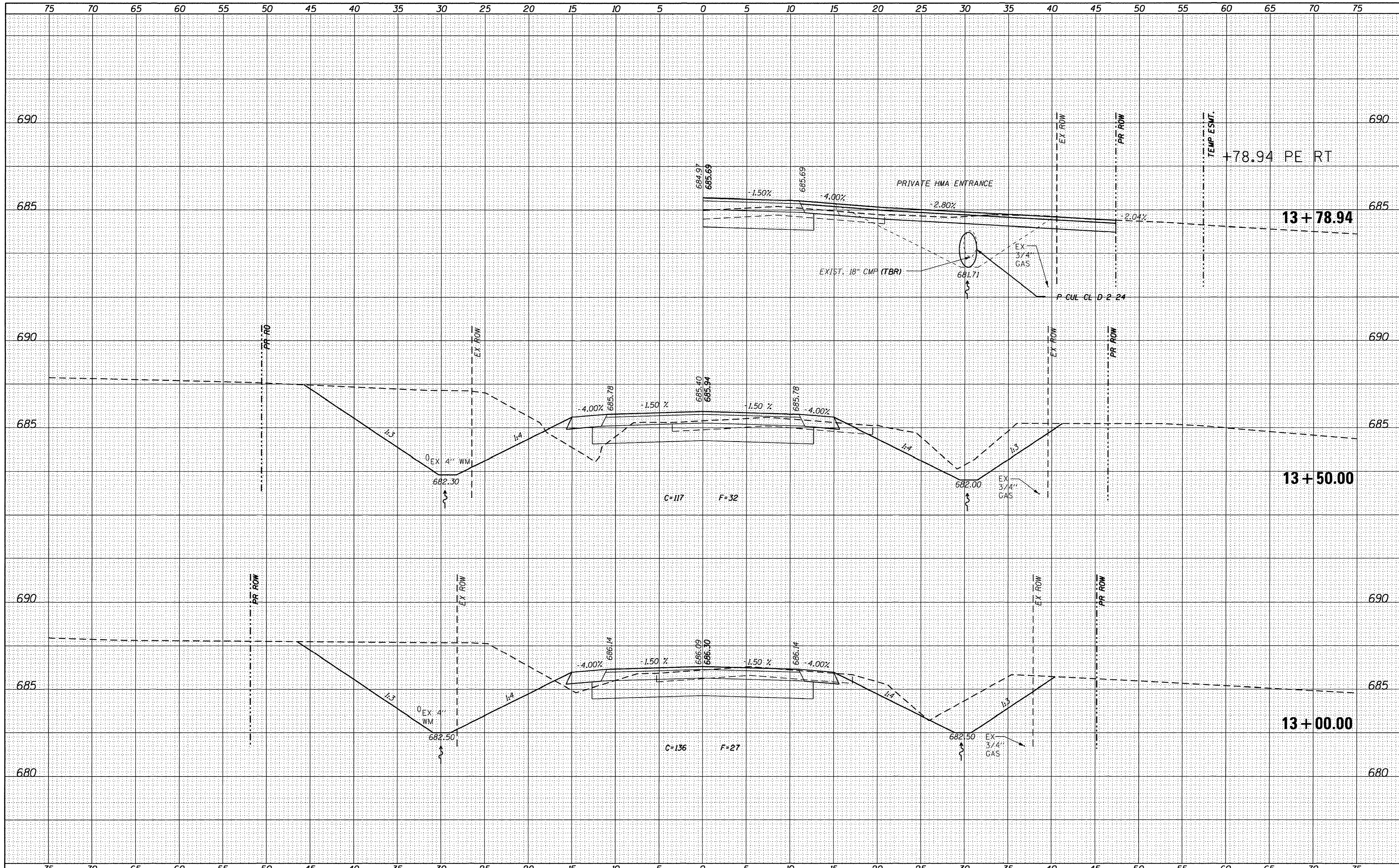
**CROSS SECTIONS**  
**CH 60 (SEFTON ROAD) OVER BIG CREEK**  
 SCALE: 1" = 5' SHEET NO. 3 OF 21 SHEETS STA. 11+50.00 TO STA. 12+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7411	07-00218-00-BR	MACON	51	33
			CONTRACT NO. 95759	
ILLINOIS FED. AID PROJECT				



DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS	
CHECKED	
NO.	

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



USER NAME = mott.pope	DESIGNED - MJP	REVISED -
FILE NAME = XSECT.dgn	DRAWN - MJP	REVISED -
PLT DATE = 12/23/2016	CHECKED - JAC	REVISED -
PLT TIME = 1:07:08 PM	DATE - 9/23/14	REVISED -

**URS** 345 EAST ASH AVE., SUITE B  
 DECATUR, ILLINOIS 62526  
 PH. 217-875-4800

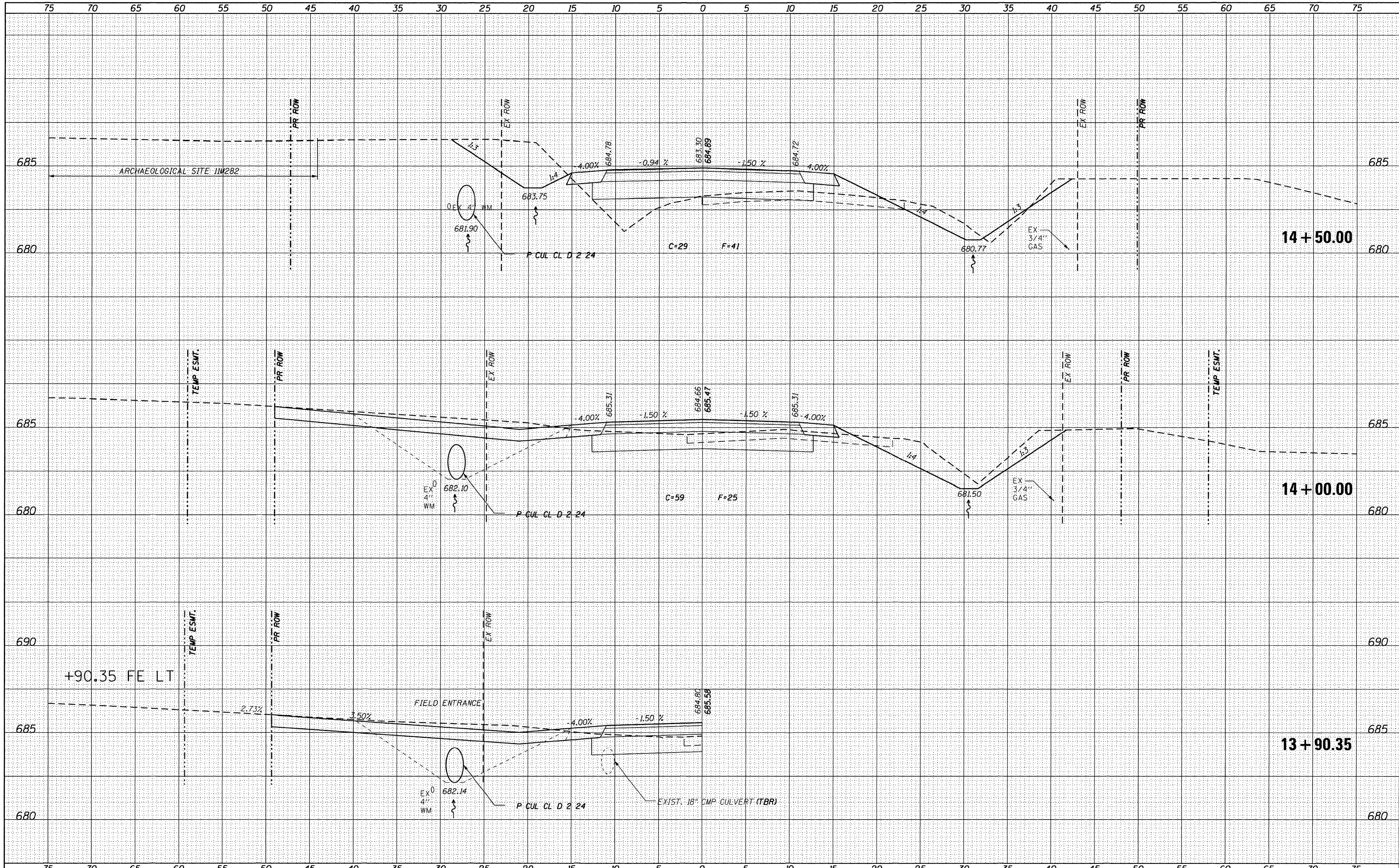
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**  
**CH 60 (SEFTON ROAD) OVER BIG CREEK**

SCALE: 1" = 5' SHEET NO. 4 OF 21 SHEETS STA. 13+00.00 TO STA. 13+78.94

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7411	07-00218-00-BR	MACON	51	34
			CONTRACT NO. 95759	
ILLINOIS FED. AID PROJECT				





DATE	
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NO.	
FINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
AREAS	
CHECKED	
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DATE	
BY	
NO.	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
AREAS	
CHECKED	
NO.	

USER NAME = mottlope	DESIGNED - MJP	REVISED -
FILE NAME = XSECT.dgn	DRAWN - MJP	REVISED -
PLOT DATE = 12/23/2016	CHECKED - JAC	REVISED -
PLOT TIME = 1:08:16 PM	DATE - 9/23/14	REVISED -

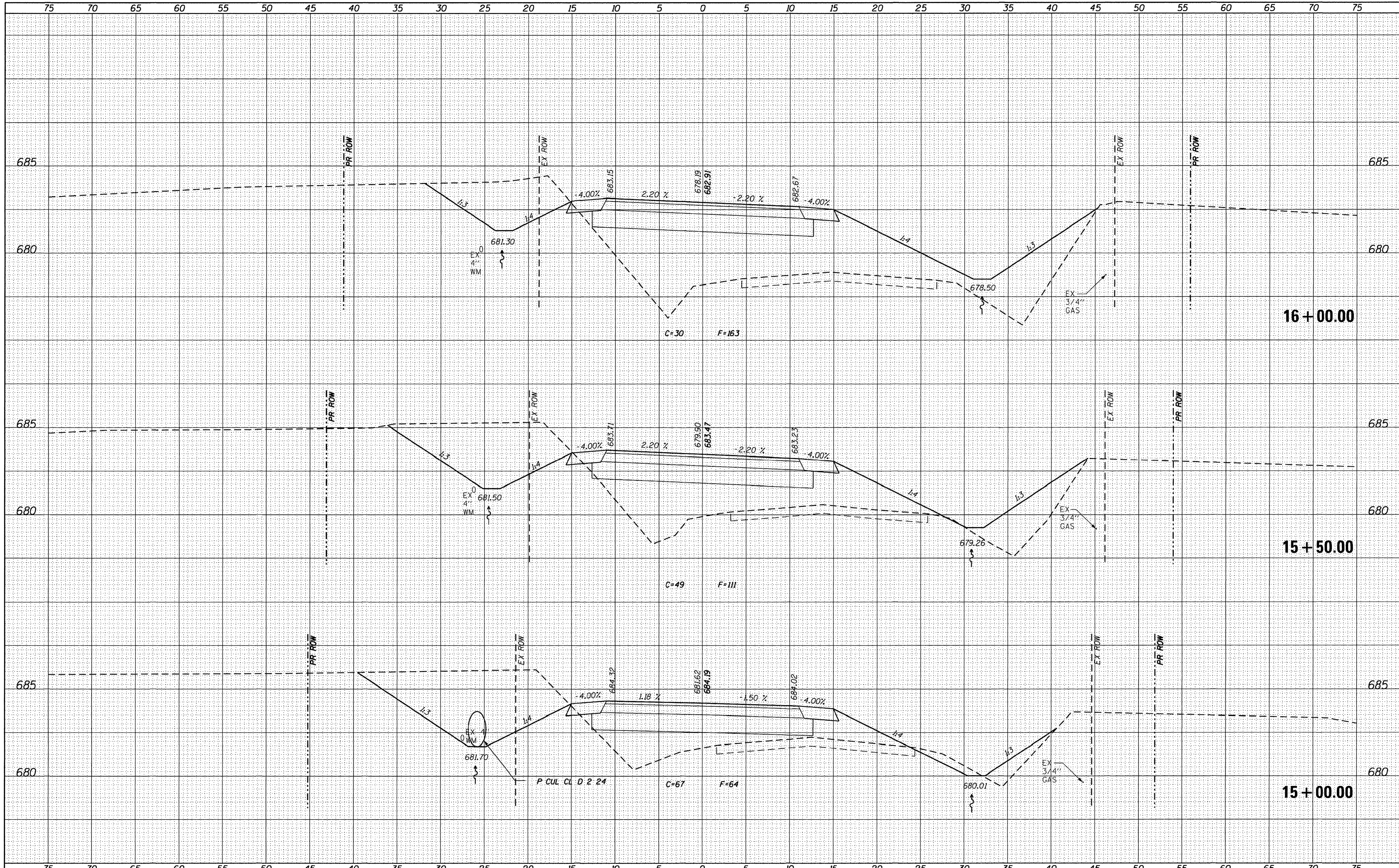
**URS** 345 EAST ASH AVE., SUITE B  
 DECATUR, ILLINOIS 62526  
 PH. 217-875-4800

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**  
**CH 60 (SEFTON ROAD) OVER BIG CREEK**  
 SCALE: 1" = 5' SHEET NO. 5 OF 21 SHEETS STA. 13+90.35 TO STA. 14+50.00

F.A.U. RTE. 7411	SECTION 07-00218-00-BR	COUNTY MACON	TOTAL SHEETS 51	SHEET NO. 35
ILLINOIS FED. AID PROJECT			CONTRACT NO. 95759	





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

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

USER NAME = mott.pope	DESIGNED - MJP	REVISED -
FILE NAME = XSECT.dgn	DRAWN - MJP	REVISED -
PLOT DATE = 12/23/2016	CHECKED - JAC	REVISED -
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**URS** 345 EAST ASH AVE., SUITE B  
 DECATUR, ILLINOIS 62526  
 PH. 217-875-4800

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

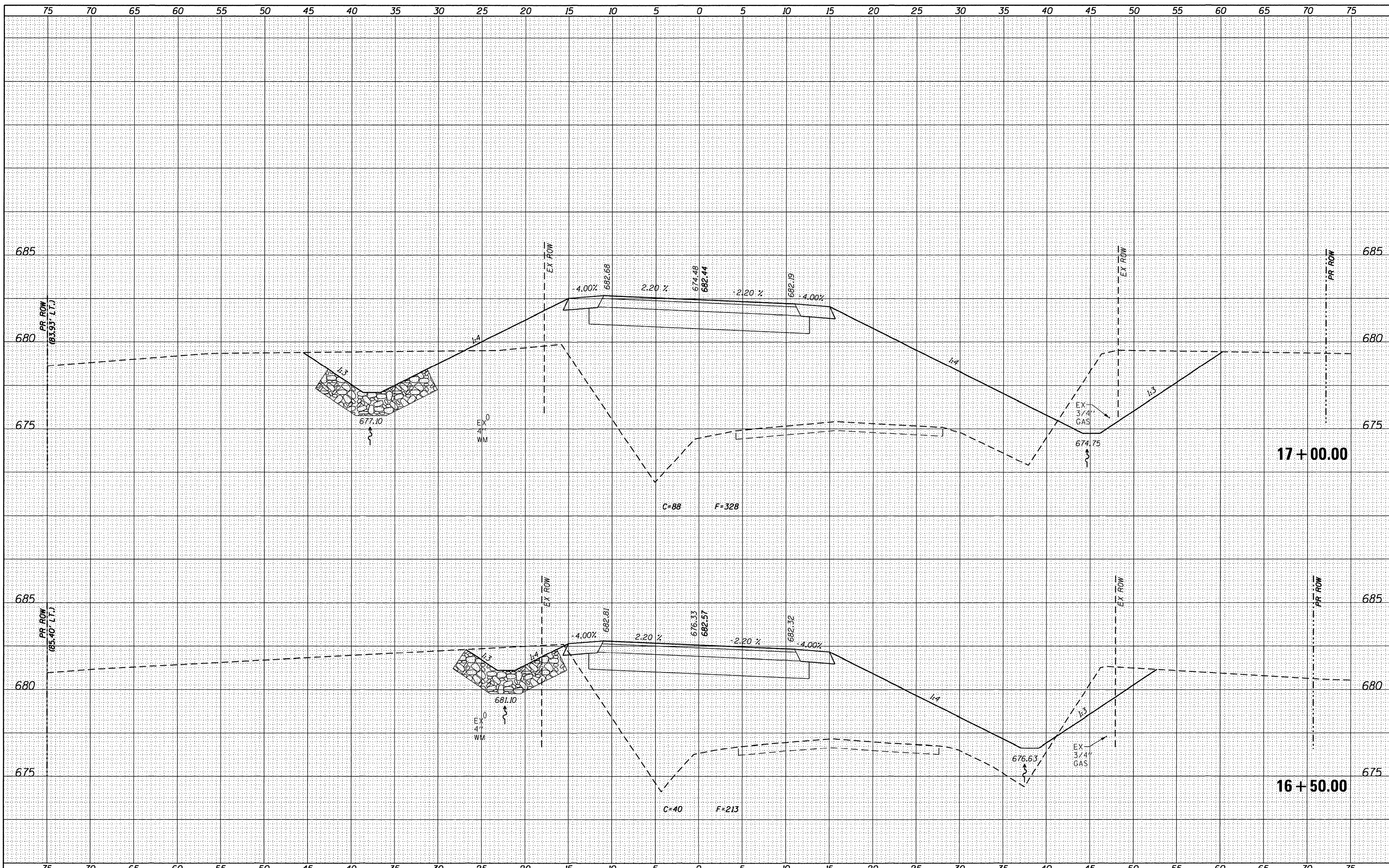
**CROSS SECTIONS**  
**CH 60 (SEFTON ROAD) OVER BIG CREEK**  
 SCALE: 1" = 5'  
 SHEET NO. 6 OF 21 SHEETS  
 STA. 15+00.00 TO STA. 16+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7411	07-00218-00-BR	MACON	51	36
ILLINOIS FED. AID PROJECT			CONTRACT NO. 95759	



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

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



USER NAME = matt.pope	DESIGNED - MJP	REVISED -
FILE NAME = XSECT.dgn	DRAWN - MJP	REVISED -
PLOT DATE = 2/10/2015	CHECKED - JAC	REVISED -
PLOT TIME = 10:17:50 AM	DATE - 9/23/14	REVISED -

**URS** 345 EAST ASH AVE., SUITE B  
 DECATUR, ILLINOIS 62526  
 PH. 217-875-4800

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

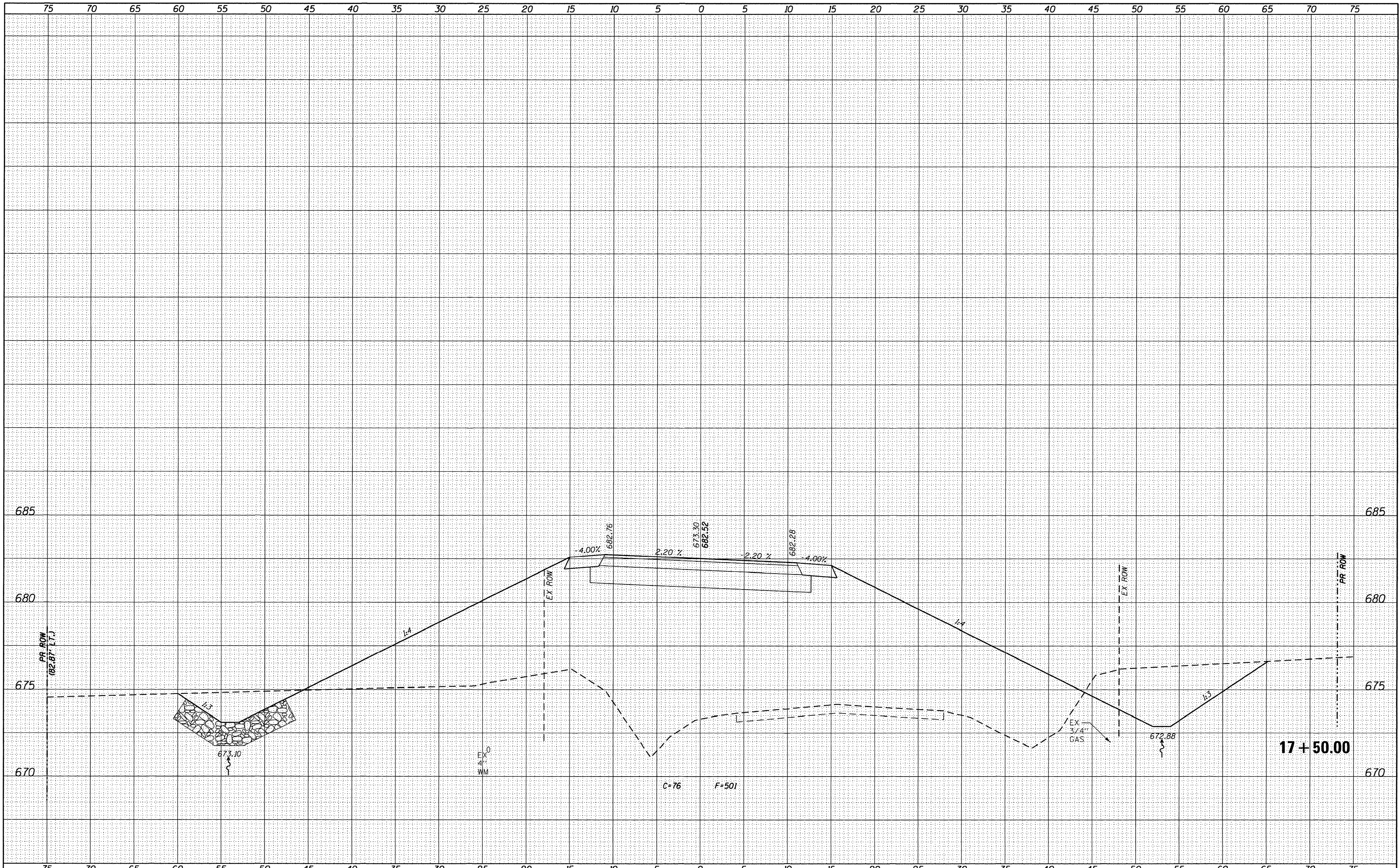
**CROSS SECTIONS**  
**CH 60 (SEFTON ROAD) OVER BIG CREEK**  
 SCALE: 1" = 5' SHEET NO. 7 OF 21 SHEETS STA. 16+50.00 TO STA. 17+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7411	07-00218-00-BR	MACON	51	37
			CONTRACT NO. 95759	
ILLINOIS FED. AID PROJECT				



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

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



USER NAME = matt.pope	DESIGNED - MJP	REVISED -
FILE NAME = XSECT.dgn	DRAWN - MJP	REVISED -
PLOT DATE = 2/10/2015	CHECKED - JAC	REVISED -
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**URS** 345 EAST ASH AVE., SUITE B  
 DECATUR, ILLINOIS 62526  
 PH. 217-875-4800

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

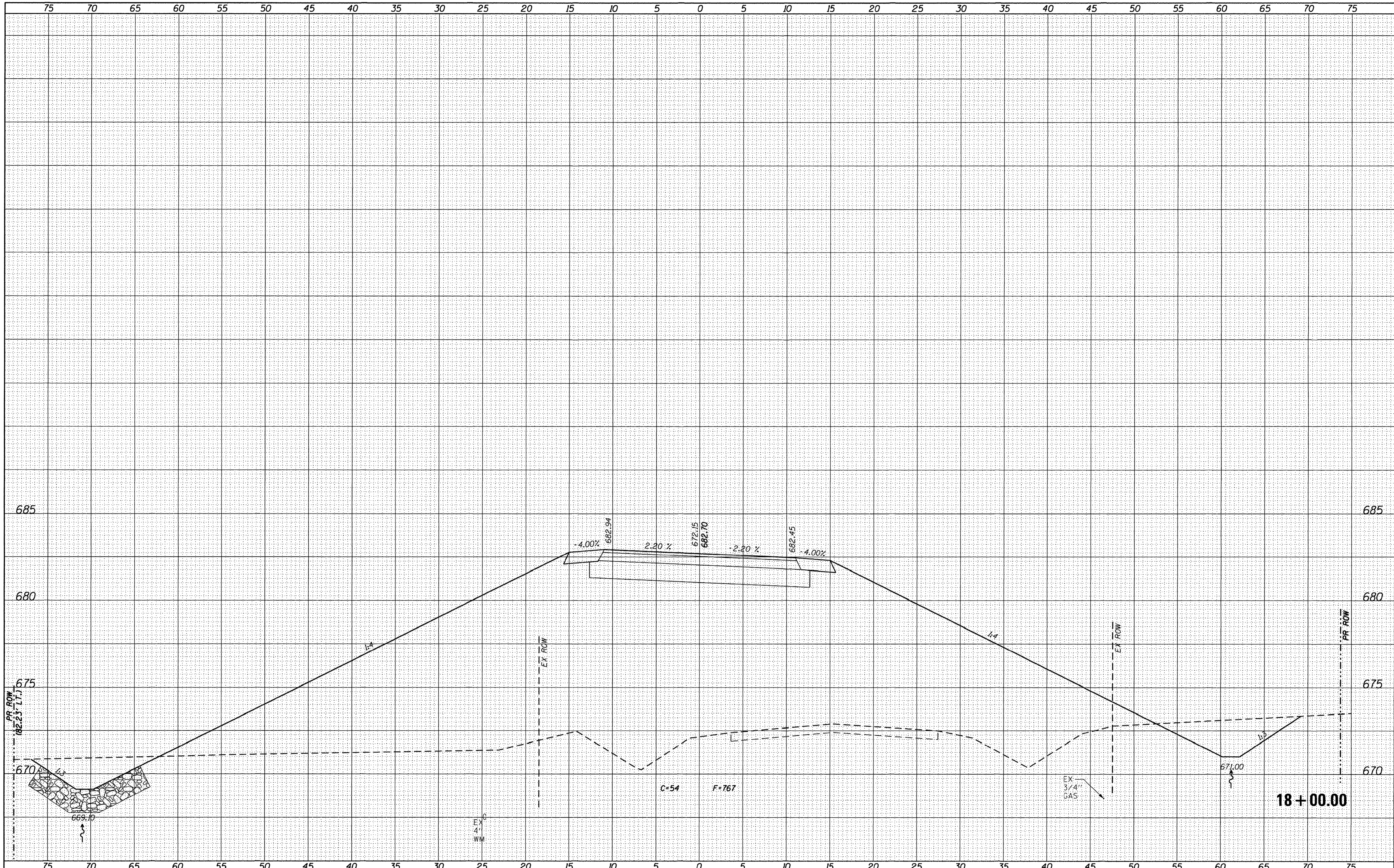
**CROSS SECTIONS**  
**CH 60 (SEFTON ROAD) OVER BIG CREEK**  
 SCALE: 1" = 5' SHEET NO. 8 OF 21 SHEETS STA. 17+50.00 TO STA. 17+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7411	07-00218-00-BR	MACON	51	38
			CONTRACT NO. 95759	
ILLINOIS FED. AID PROJECT				



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



USER NAME = mott.pope	DESIGNED - MJP	REVISED -
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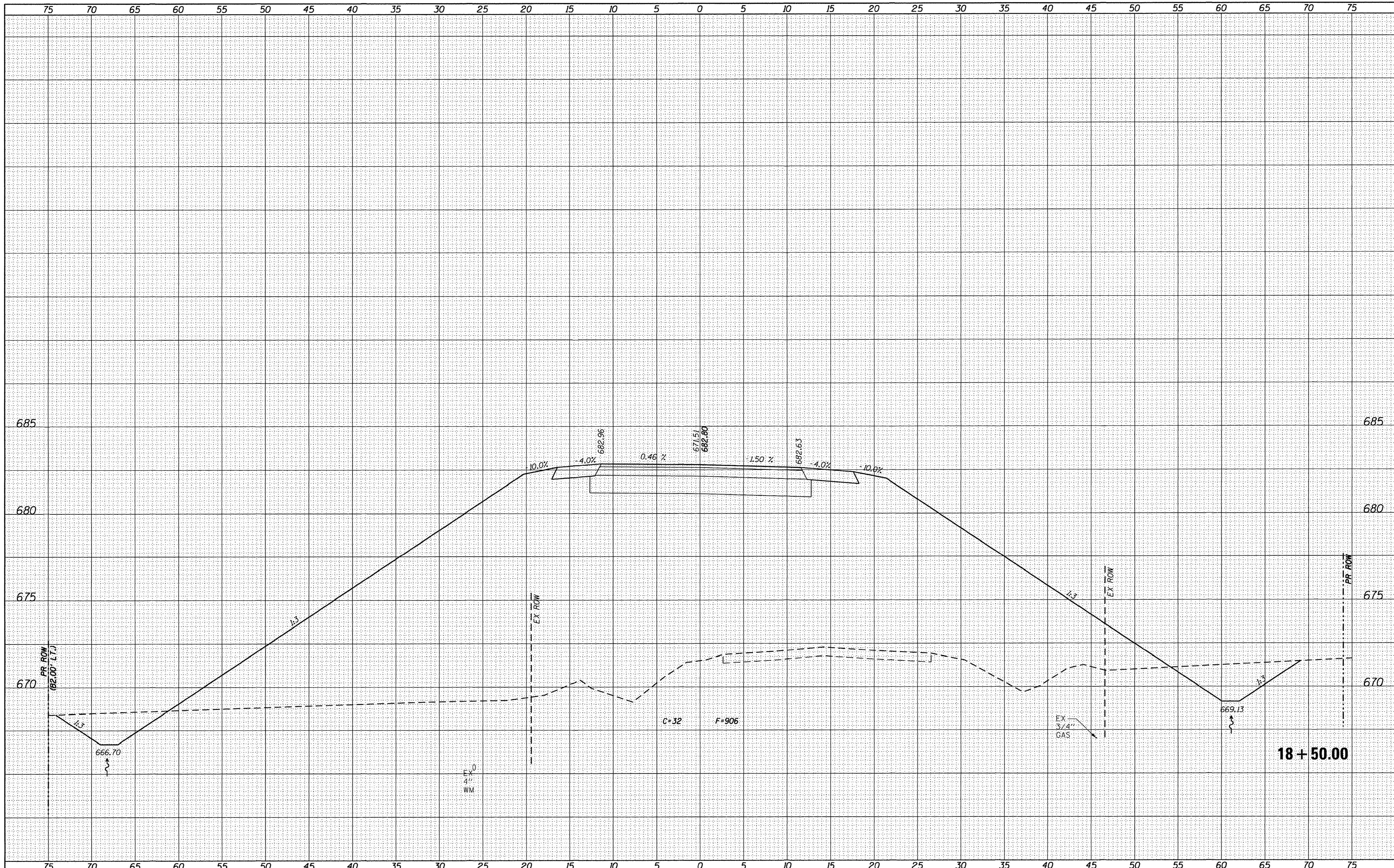
**URS** 345 EAST ASH AVE., SUITE B  
 DECATUR, ILLINOIS 62526  
 PH. 217-875-4800

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**  
**CH 60 (SEFTON ROAD) OVER BIG CREEK**  
 SCALE: 1" = 5' SHEET NO. 9 OF 21 SHEETS STA. 18+00.00 TO STA. 18+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7411	07-00218-00-BR	MACON	51	39
ILLINOIS FED. AID PROJECT			CONTRACT NO. 95759	





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

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

USER NAME = metl.pope	DESIGNED - MJP	REVISED -
FILE NAME = XSECT.dgn	DRAWN - MJP	REVISED -
PLOT DATE = 2/18/2015	CHECKED - JAC	REVISED -
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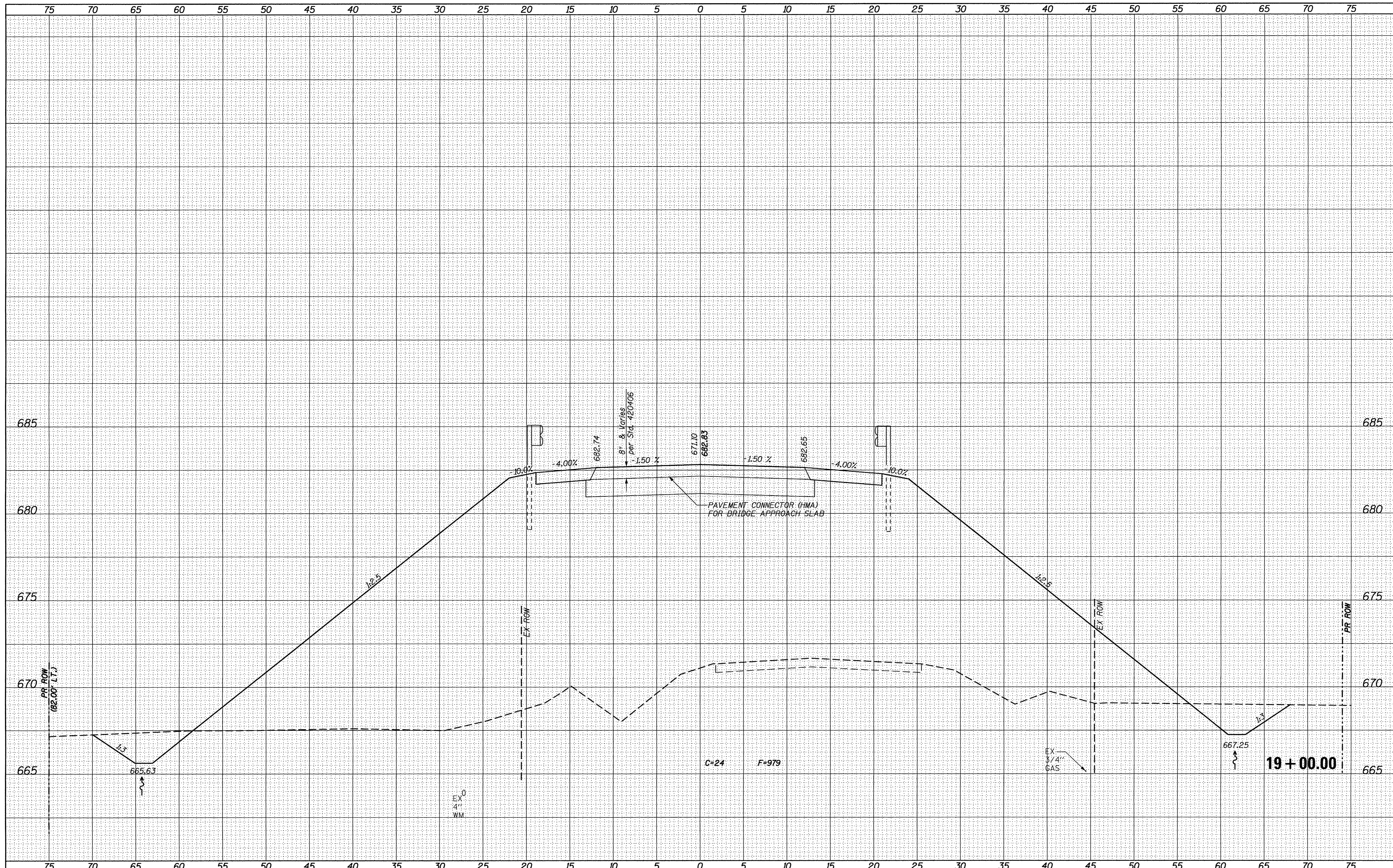
**URS** 345 EAST ASH AVE., SUITE B  
 DECATUR, ILLINOIS 62526  
 PH. 217-875-4800

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
 CH 60 (SEFTON ROAD) OVER BIG CREEK  
 SCALE: 1" = 5'  
 SHEET NO. 10 OF 21 SHEETS  
 STA. 18+50.00 TO STA. 18+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7411	07-00218-00-BR	MACON	51	40
CONTRACT NO. 95759			ILLINOIS FED. AID PROJECT	





DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

USER NAME = matt.pope	DESIGNED - MJP	REVISED -
FILE NAME = XSECT.dgn	DRAWN - MJP	REVISED -
PLOT DATE = 2/23/2017	CHECKED - JAC	REVISED -
PLOT TIME = 7:56:20 AM	DATE - 9/23/14	REVISED -

DESIGNED - MJP	REVISED -
DRAWN - MJP	REVISED -
CHECKED - JAC	REVISED -
DATE - 9/23/14	REVISED -

**URS** 345 EAST ASH AVE., SUITE B  
 DECATUR, ILLINOIS 62526  
 PH. 217-875-4800

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

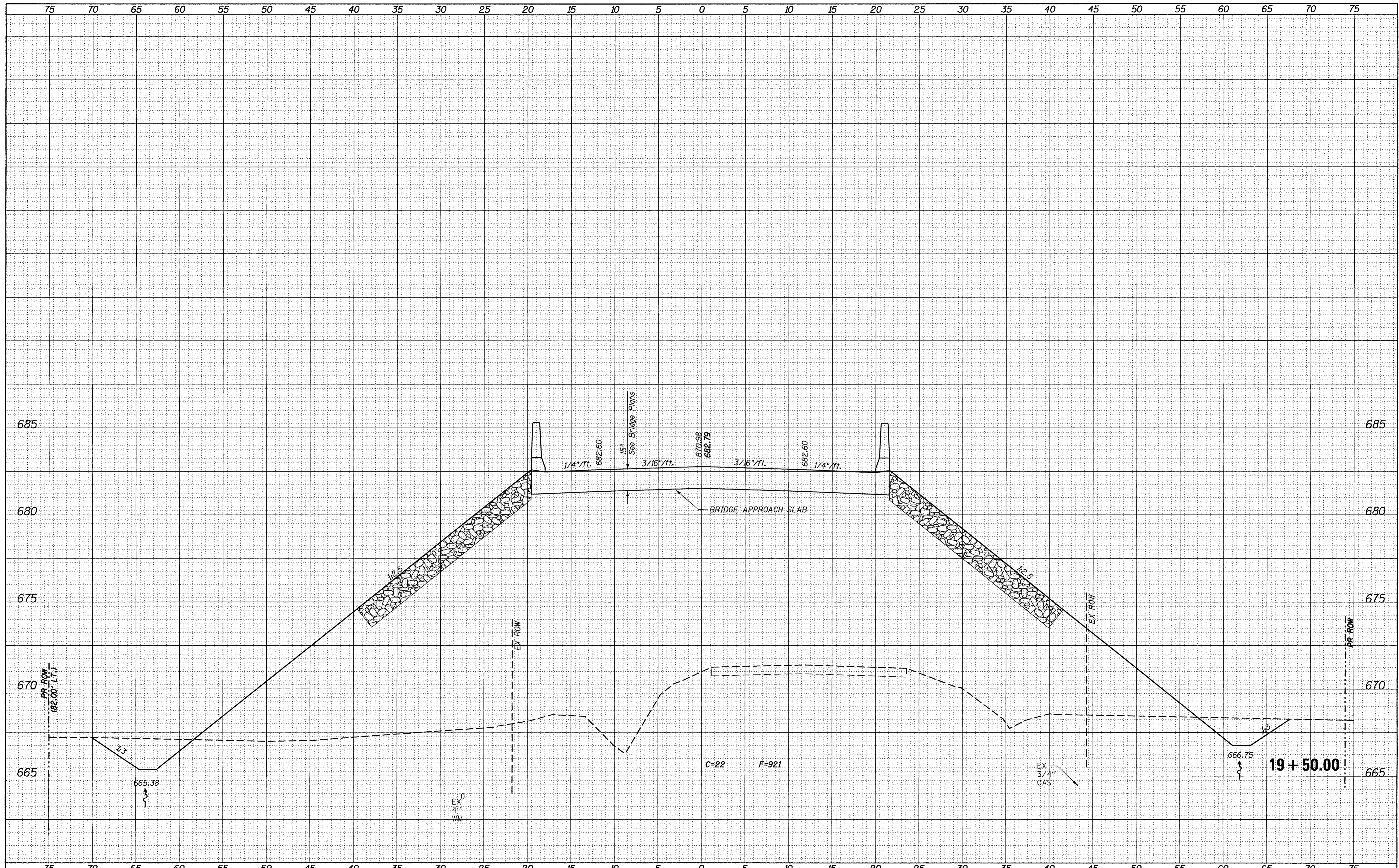
**CROSS SECTIONS**  
**CH 60 (SEFTON ROAD) OVER BIG CREEK**  
 SCALE: 1" = 5'  
 SHEET NO. 11 OF 21 SHEETS  
 STA. 19+00.00 TO STA. 19+00.00

F.A.U. RTE. 7411	SECTION 07-00218-00-BR	COUNTY MACON	TOTAL SHEETS 51	SHEET NO. 41
ILLINOIS FED. AID PROJECT				CONTRACT NO. 95759



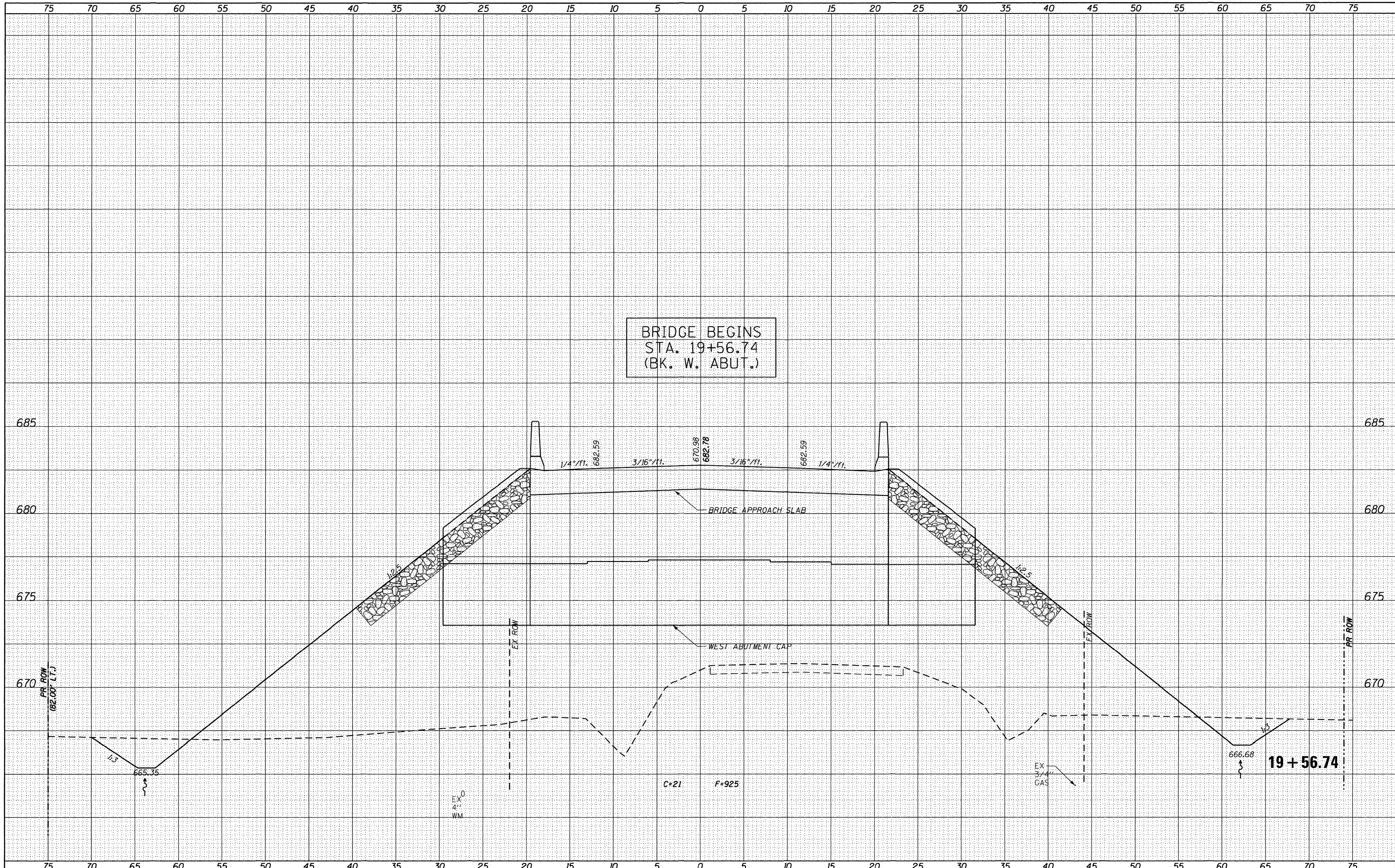
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SURVEY	PLotted	BY
NOTE BOOK	TEMPLATE	
NO.	AREAS	CHECKED

ORIGINAL	SURVEY	DATE
SURVEY	PLotted	BY
NOTE BOOK	TEMPLATE	
NO.	AREAS	CHECKED



USER NAME = matt.pope	DESIGNED - MJP	REVISED -	345 EAST ASH AVE., SUITE B DECATUR, ILLINOIS 62526 PH. 217-875-4800	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>		<b>CROSS SECTIONS</b> <b>CH 60 (SEFTON ROAD) OVER BIG CREEK</b>		F.A.U. RTE. 7411	SECTION 07-00218-00-BR	COUNTY MACON	TOTAL SHEETS 51	SHEET NO. 42	
FILE NAME = XSECT.dgn	DRAWN - MJP	REVISED -		SCALE: 1" = 5'		SHEET NO. 12 OF 21 SHEETS		STA. 19+50.00 TO STA. 19+50.00		CONTRACT NO. 95759			
PLOT DATE = 2/23/2017	CHECKED - JAC	REVISED -		ILLINOIS FED. AID PROJECT									
PLOT TIME = 7:56:41 AM	DATE - 9/23/14	REVISED -											





BRIDGE BEGINS  
STA. 19+56.74  
(BK. W. ABUT.)

BRIDGE APPROACH SLAB

WEST ABUTMENT CAP

C=21 F=925

19+56.74

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
AREAS	
AREAS CHECKED	
NO.	

USER NAME = mott.pope	DESIGNED - MJP	REVISED -
FILE NAME = XSECT.dgn	DRAWN - MJP	REVISED -
PLOT DATE = 2/18/2015	CHECKED - JAC	REVISED -
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**URS** 345 EAST ASH AVE., SUITE B  
DECATUR, ILLINOIS 62526  
PH. 217-875-4800

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

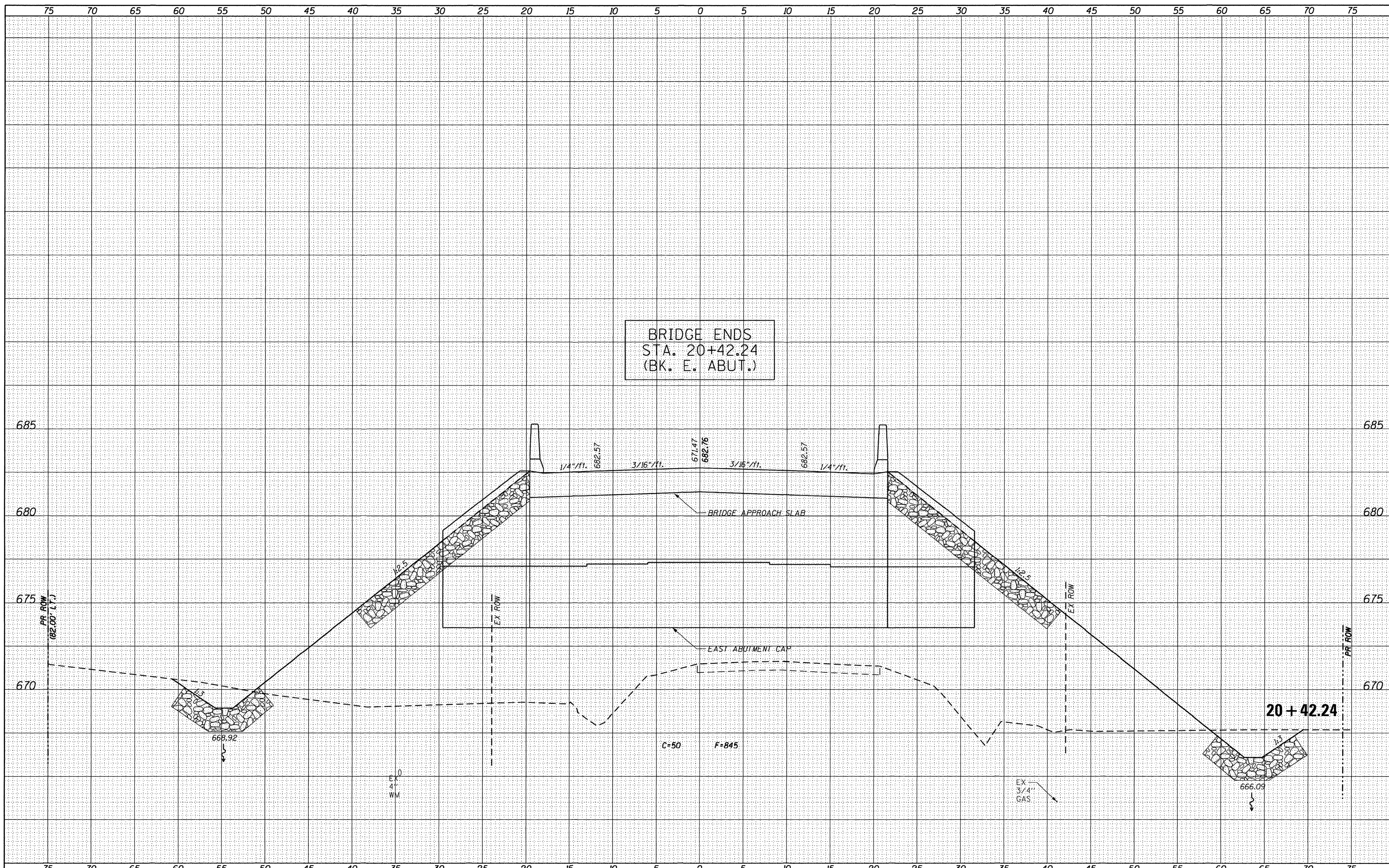
CROSS SECTIONS  
CH 60 (SEFTON ROAD) OVER BIG CREEK  
SCALE: 1" = 5' SHEET NO. 13 OF 21 SHEETS STA. 19+56.74 TO STA. 19+56.74

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7411	07-00218-00-BR	MACON	51	43
ILLINOIS FED. AID PROJECT			CONTRACT NO. 95759	



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

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



BRIDGE ENDS  
STA. 20+42.24  
(BK. E. ABUT.)

USER NAME = matt.pope	DESIGNED - MJP	REVISED -
FILE NAME = XSECT.dgn	DRAWN - MJP	REVISED -
PLOT DATE = 2/10/2015	CHECKED - JAC	REVISED -
PLOT TIME = 10:20:40 AM	DATE - 9/23/14	REVISED -

**URS** 345 EAST ASH AVE., SUITE B  
DECATUR, ILLINOIS 62526  
PH. 217-875-4800

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

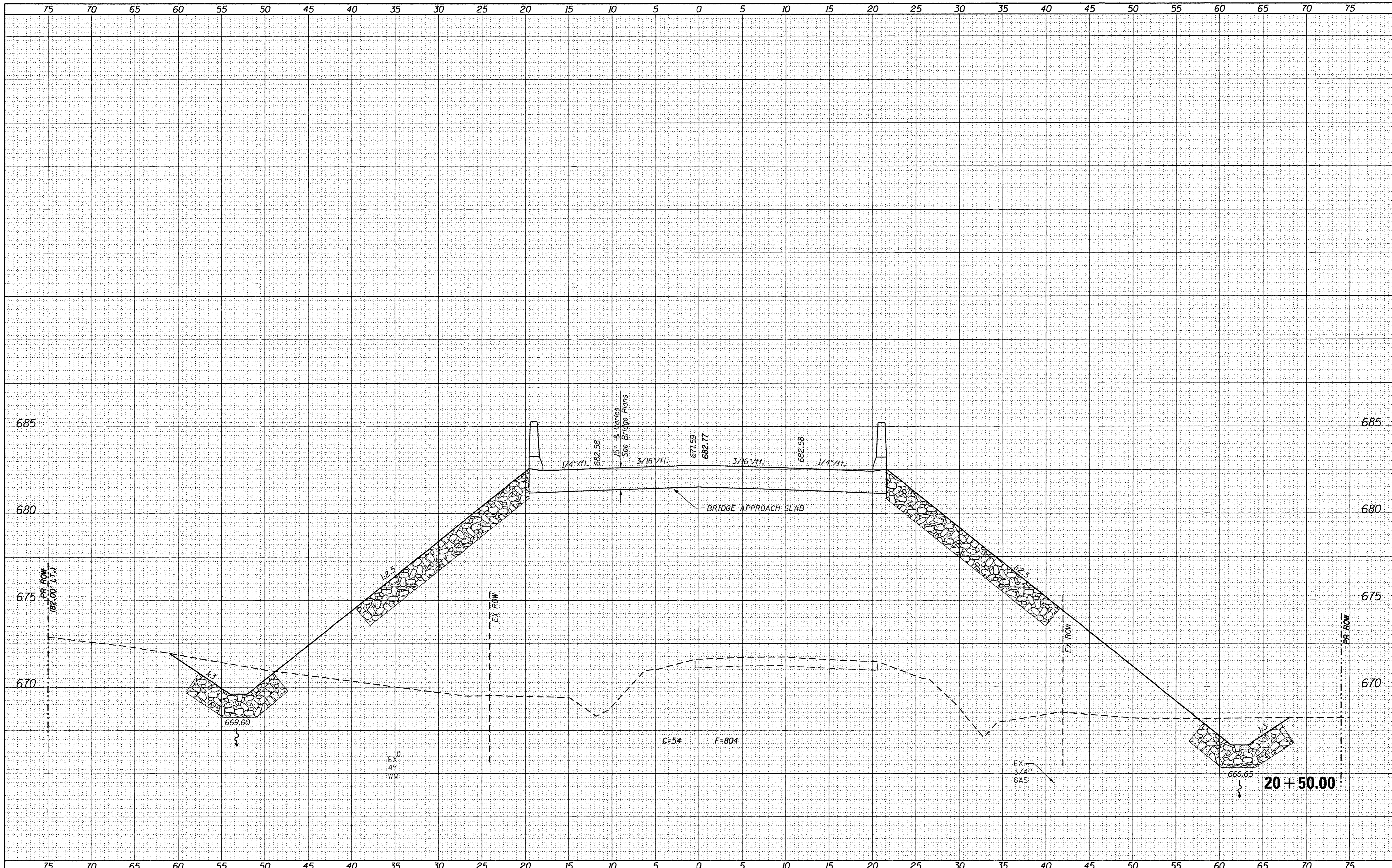
CROSS SECTIONS  
CH 60 (SEFTON ROAD) OVER BIG CREEK  
SCALE: 1" = 5'  
SHEET NO. 14 OF 21 SHEETS  
STA. 20+42.24 TO STA. 20+42.24

F.A.U. RTE. 7411	SECTION 07-00218-00-BR	COUNTY MACON	TOTAL SHEETS 51	SHEET NO. 44
ILLINOIS FED. AID PROJECT			CONTRACT NO. 95759	



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

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

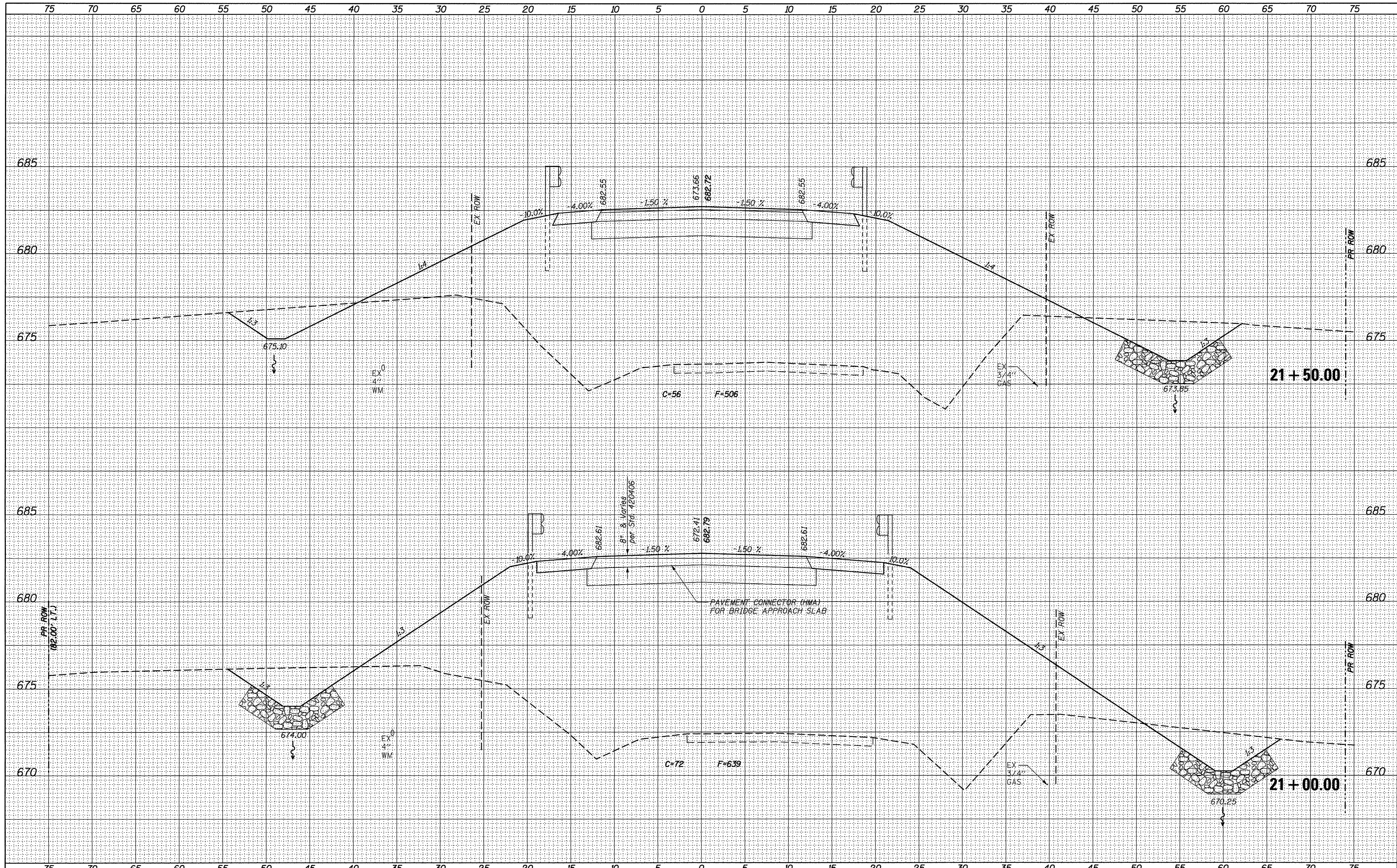


USER NAME = matt.pope	DESIGNED - MJP	REVISED -		<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b> 345 EAST ASH AVE., SUITE B DECATUR, ILLINOIS 62526 PH. 217-875-4800	<b>CROSS SECTIONS</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
FILE NAME = XSECT.dgn	DRAWN - MJP	REVISED -			<b>CH 60 (SEFTON ROAD) OVER BIG CREEK</b>			7411	07-00218-00-BR	MACON	51	45	
PLOT DATE = 2/10/2015	CHECKED - JAC	REVISED -			SCALE: 1" = 5'			SHEET NO. 15 OF 21 SHEETS		STA. 20+50.00		TO STA. 20+50.00	
PLOT TIME = 10:21:28 AM	DATE - 9/23/14	REVISED -			ILLINOIS FED. AID PROJECT CONTRACT NO. 95759								



DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
NO.	

DATE	
BY	
ORIGINAL	
SURVEY	
PLOTTED	
TEMPLATE	
AREAS	
NO.	



USER NAME = matt.pope	DESIGNED - MJP	REVISED -
FILE NAME = XSECT.dgn	DRAWN - MJP	REVISED -
PLOT DATE = 2/23/2017	CHECKED - JAC	REVISED -
PLOT TIME = 7:58:33 AM	DATE - 9/23/14	REVISED -

**URS** 345 EAST ASH AVE., SUITE B  
 DECATUR, ILLINOIS 62526  
 PH. 217-875-4800

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

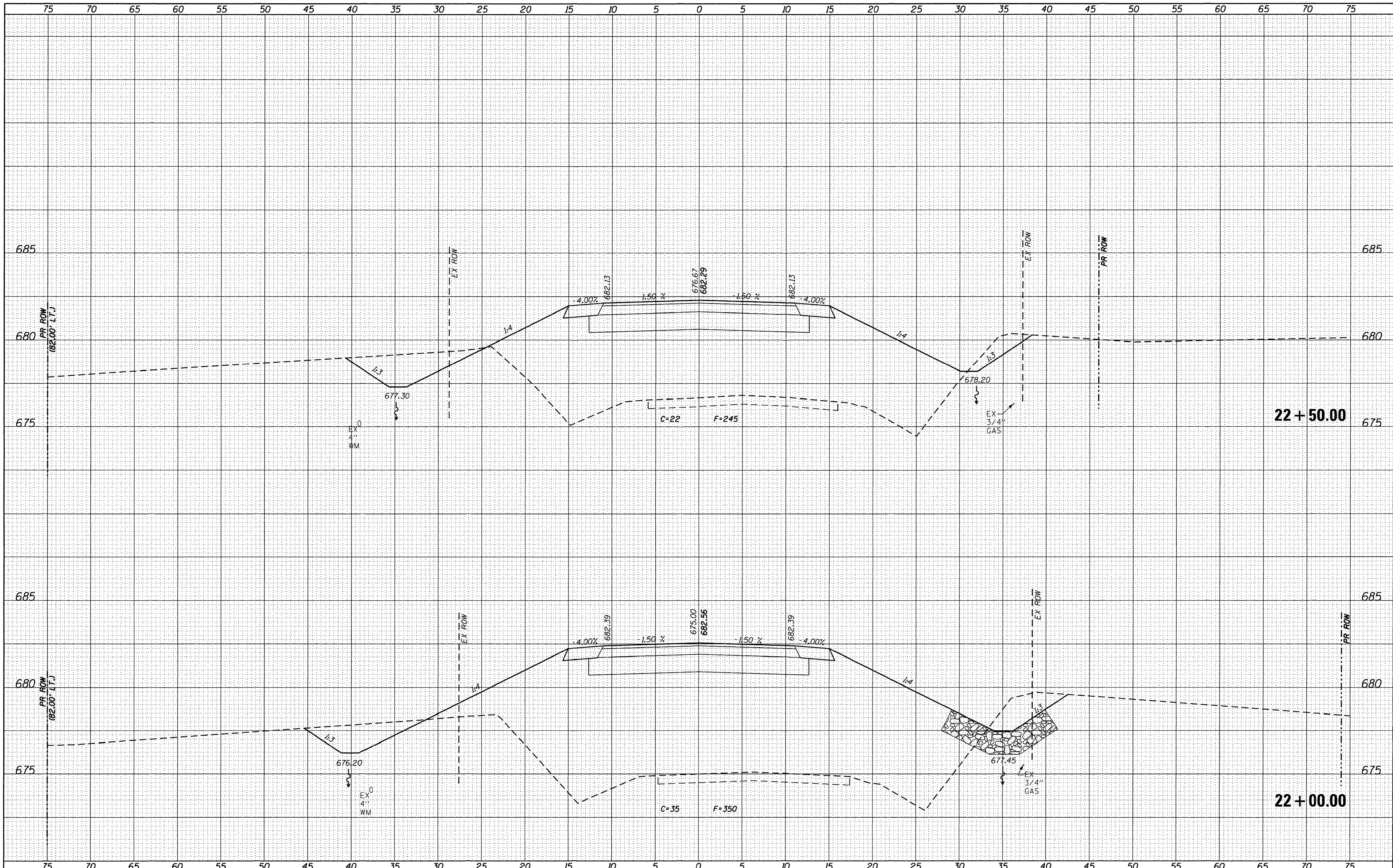
**CROSS SECTIONS**  
**CH 60 (SEFTON ROAD) OVER BIG CREEK**  
 SCALE: 1" = 5'  
 SHEET NO. 16 OF 21 SHEETS  
 STA. 21+00.00 TO STA. 21+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7411	07-00218-00-BR	MACON	51	46
			CONTRACT NO. 95759	
ILLINOIS FED. AID PROJECT				



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

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



USER NAME = mott.pope	DESIGNED - MJP	REVISED -
FILE NAME = XSECT.dgn	DRAWN - MJP	REVISED -
PLOT DATE = 2/10/2015	CHECKED - JAC	REVISED -
PLOT TIME = 10:22:46 AM	DATE - 9/23/14	REVISED -

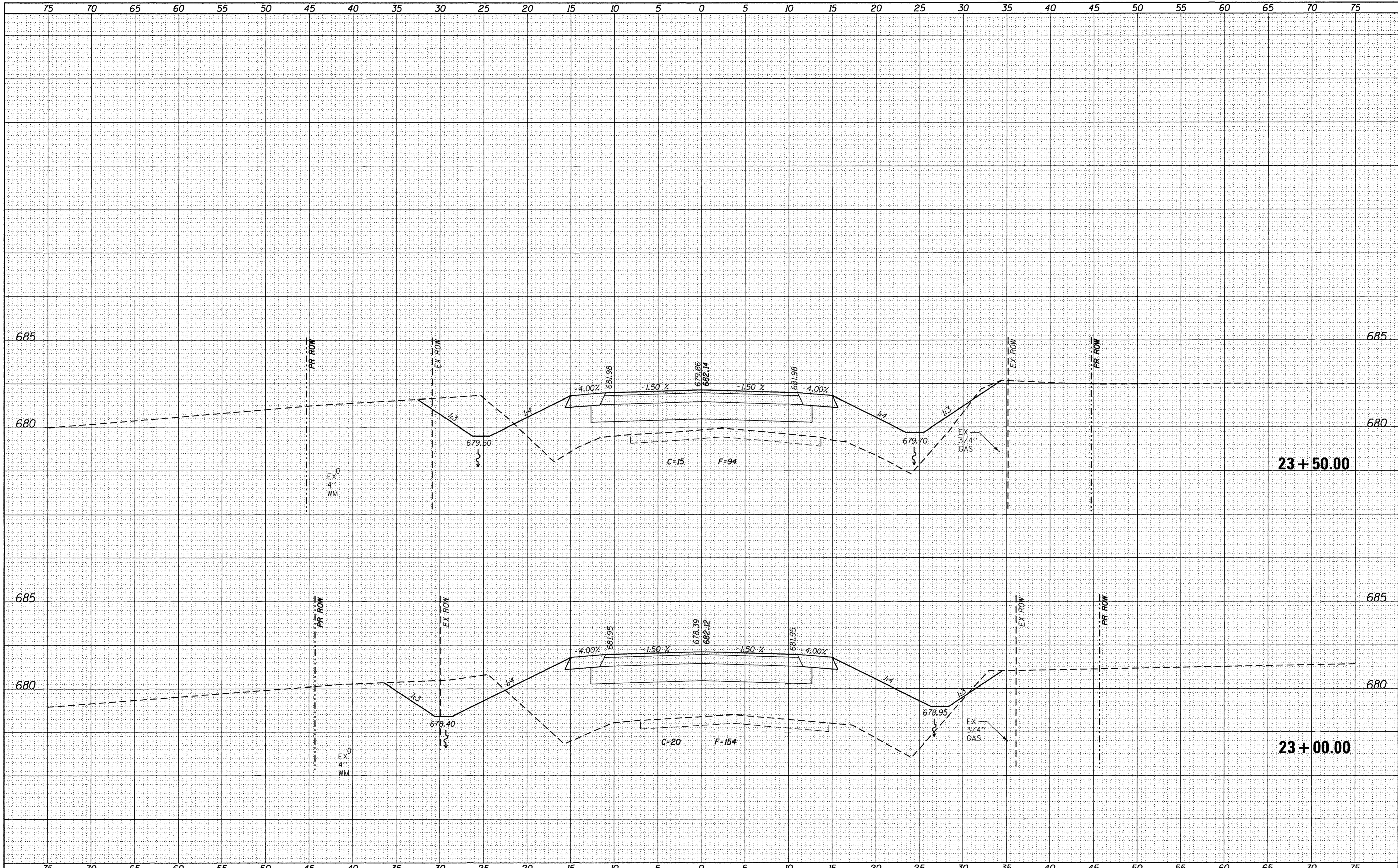
**URS** 345 EAST ASH AVE., SUITE B  
 DECATUR, ILLINOIS 62526  
 PH. 217-875-4800

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**  
**CH 60 (SEFTON ROAD) OVER BIG CREEK**  
 SCALE: 1" = 5' SHEET NO. 17 OF 21 SHEETS STA. 22+00.00 TO STA. 22+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7411	07-00218-00-BR	MACON	51	47
				CONTRACT NO. 95759
ILLINOIS FED. AID PROJECT				





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

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

USER NAME = matt.pope	DESIGNED - MJP	REVISED -
FILE NAME = XSECT.dgn	DRAWN - MJP	REVISED -
PLOT DATE = 2/10/2015	CHECKED - JAC	REVISED -
PLOT TIME = 10:23:32 AM	DATE - 9/23/14	REVISED -

**URS** 345 EAST ASH AVE., SUITE B  
 DECATUR, ILLINOIS 62526  
 PH. 217-875-4800

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**  
**CH 60 (SEFTON ROAD) OVER BIG CREEK**  
 SCALE: 1" = 5'  
 SHEET NO. 18 OF 21 SHEETS  
 STA. 23+00.00 TO STA. 23+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7411	07-00218-00-BR	MACON	51	48
			CONTRACT NO. 95759	
ILLINOIS FED. AID PROJECT				



DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

USER NAME = mott.pope	DESIGNED - MJP	REVISED -
FILE NAME = XSECT.dgn	DRAWN - MJP	REVISED -
PLOT DATE = 2/10/2015	CHECKED - JAC	REVISED -
PLOT TIME = 10:23:57 AM	DATE - 9/23/14	REVISED -

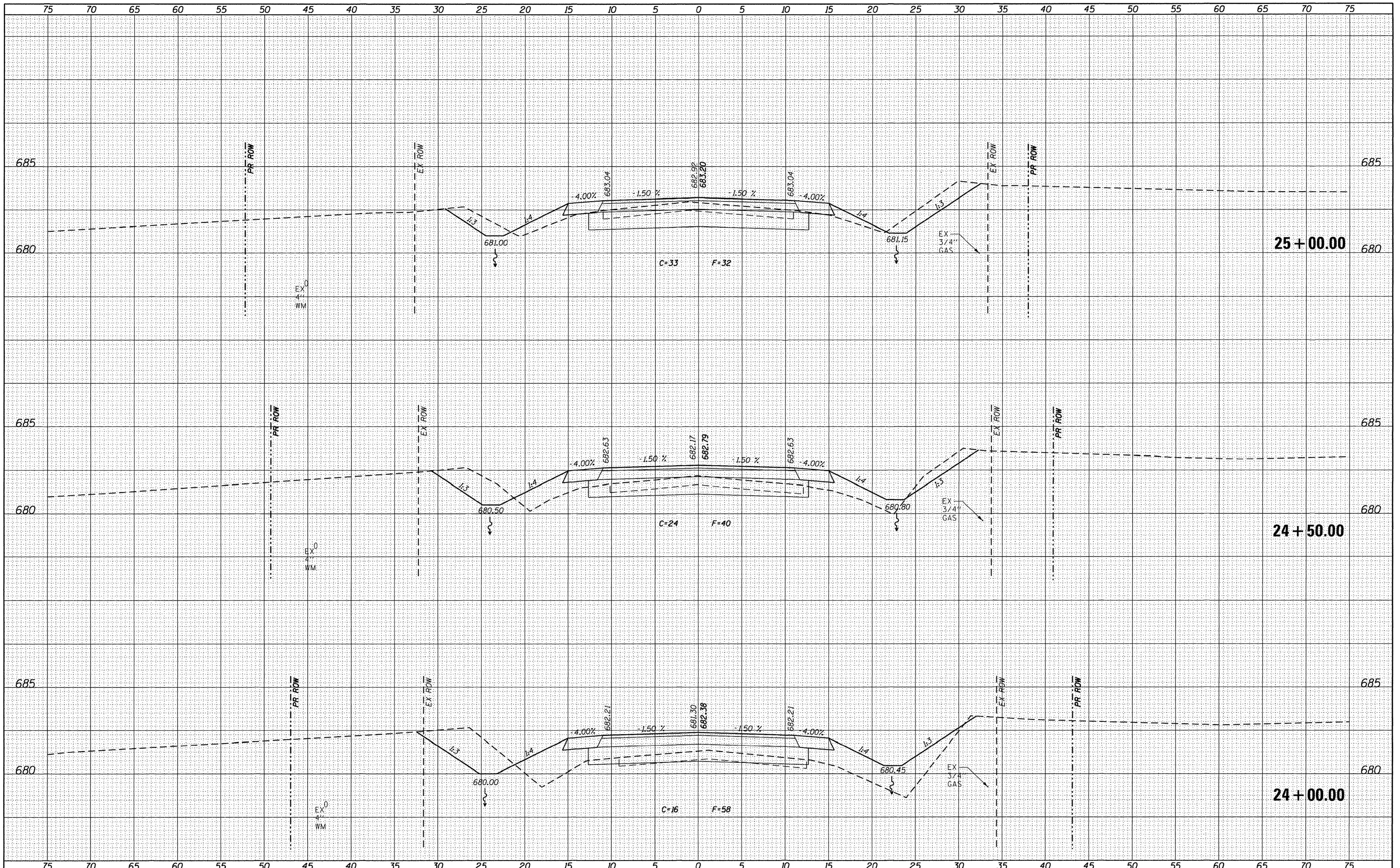
**URS** 345 EAST ASH AVE., SUITE B  
 DECATUR, ILLINOIS 62526  
 PH. 217-875-4800

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

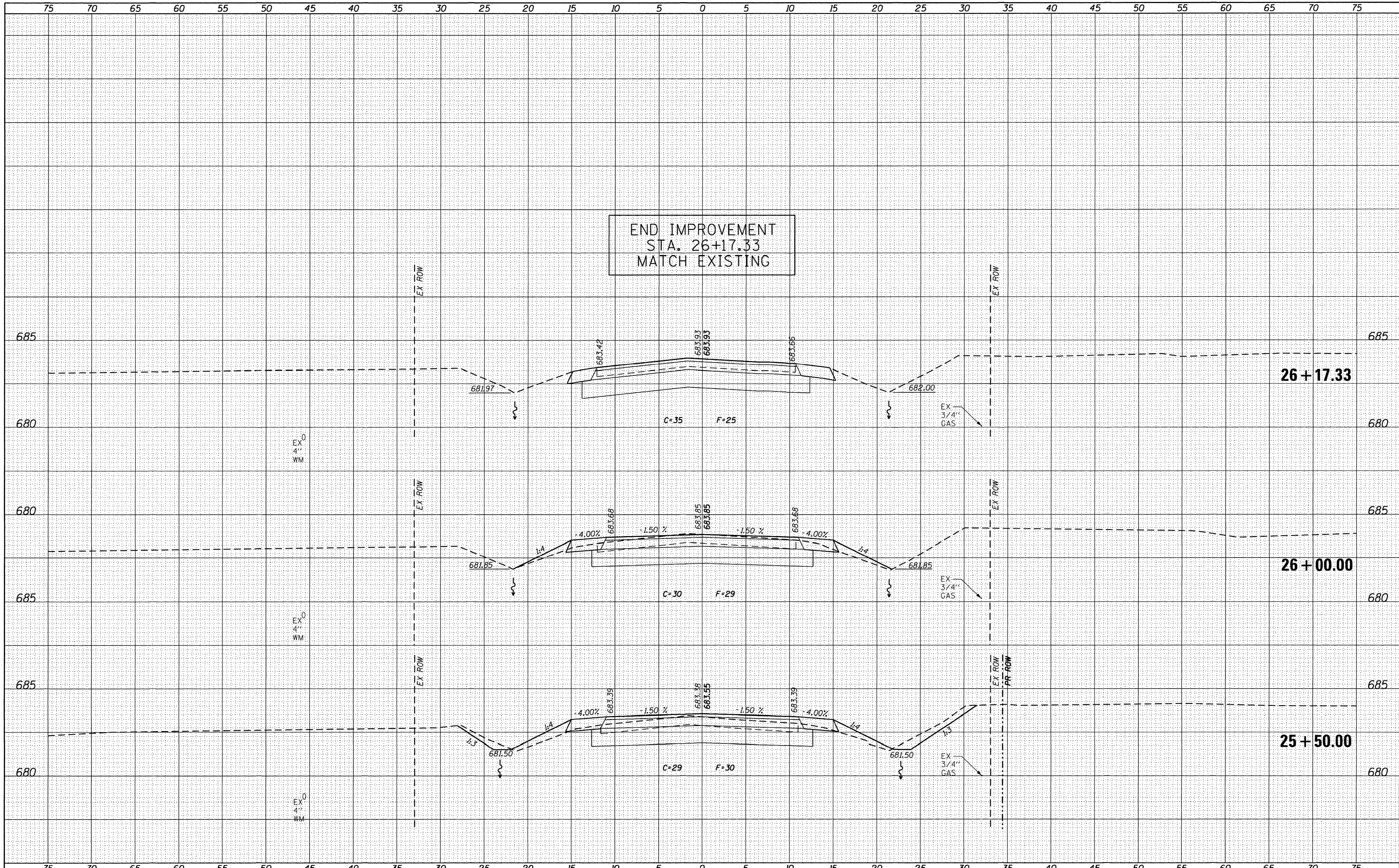
**CROSS SECTIONS  
 CH 60 (SEFTON ROAD) OVER BIG CREEK**

SCALE: 1" = 5' SHEET NO. 19 OF 21 SHEETS STA. 24+00.00 TO STA. 25+00.00

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7411	07-00218-00-BR	MACON	51	49
			CONTRACT NO. 95759	
ILLINOIS FED. AID PROJECT				







DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

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

USER NAME = matt.pope	DESIGNED - MJP	REVISED -
FILE NAME = XSECT.dgn	DRAWN - MJP	REVISED -
PLOT DATE = 2/10/2015	CHECKED - JAC	REVISED -
PLOT TIME = 10:24:15 AM	DATE - 9/23/14	REVISED -

**URS** 345 EAST ASH AVE., SUITE B  
 DECATUR, ILLINOIS 62526  
 PH. 217-875-4800

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

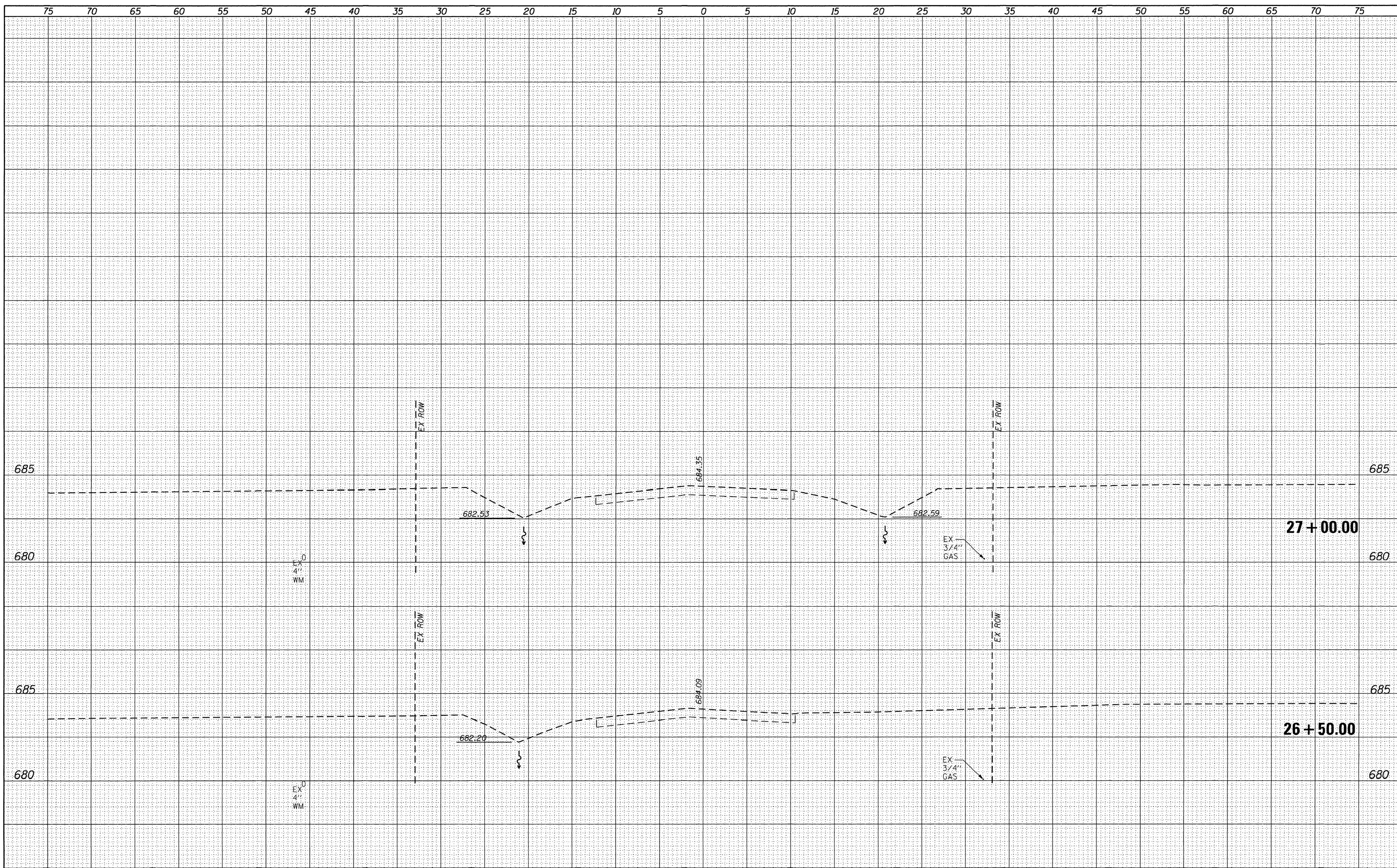
**CROSS SECTIONS**  
**CH 60 (SEFTON ROAD) OVER BIG CREEK**  
 SCALE: 1" = 5'    SHEET NO. 20 OF 21 SHEETS    STA. 25+50.00 TO STA. 26+17.33

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7411	07-00218-00-BR	MACON	51	50
CONTRACT NO. 95759			ILLINOIS FED. AID PROJECT	



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

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



USER NAME = matt.pope	DESIGNED - MJP	REVISED -
FILE NAME = XSECT.dgn	DRAWN - MJP	REVISED -
PLOT DATE = 2/10/2015	CHECKED - JAC	REVISED -
PLOT TIME = 10:24:39 AM	DATE - 9/23/14	REVISED -

**URS** 345 EAST ASH AVE., SUITE B  
 DECATUR, ILLINOIS 62526  
 PH. 217-875-4800

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**  
**CH 60 (SEFTON ROAD) OVER BIG CREEK**  
 SCALE: 1" = 5' SHEET NO. 21 OF 21 SHEETS STA. 26+50.00 TO STA. 27+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7411	07-00218-00-BR	MACON	51	51
ILLINOIS FED. AID PROJECT			CONTRACT NO. 95759	