

06-16-2017 LETTING ITEM 090

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

# PROPOSED HIGHWAY PLANS

FAI ROUTE 70 (I 70)  
SECTION (26-3VB1)BR-1  
PROJECT NHPP-0070(030)  
BRIDGE REPLACEMENT WITH CROSSOVER  
FAYETTE COUNTY

C-97-049-11

FOR INDEX OF SHEETS, SEE SHEET NO. 2

STATION EQUATION:  
STA 721+10.09 BK = STA 647+11.45 AH

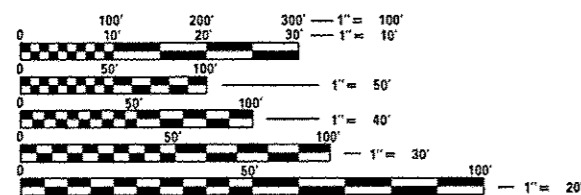
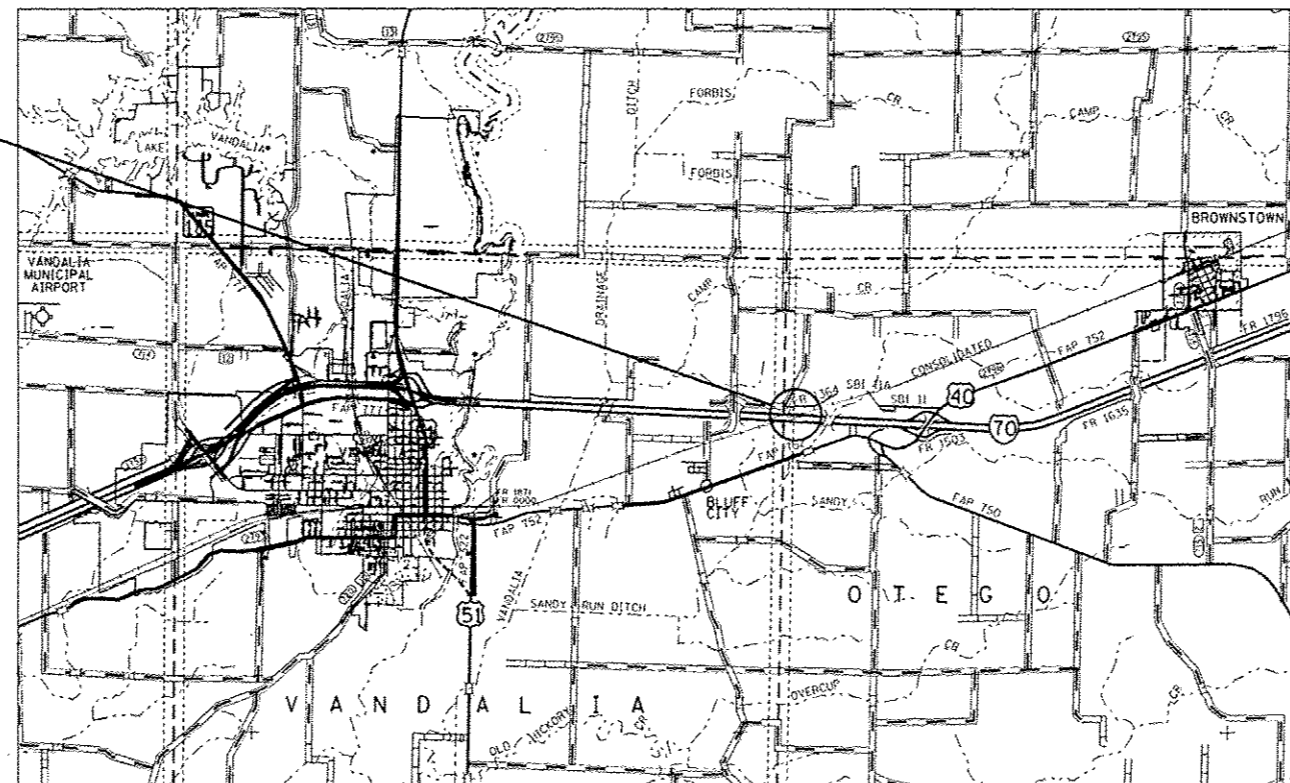
ADT (2015) = 20,600

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(26-3VB1)BR-1	Fayette	103	1
		ILLINOIS	CONTRACT NO. 74518	

D-97-018-11



SN 026-0022  
STA 709 + 54.94



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

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

PROJECT ENGINEER: MARK DAUGHERTY  
PROJECT MANAGER: BRIAN BIERMAN

CONTRACT NO. 74518

GROSS LENGTH = 1,125 FT. = 0.213 MILE  
NET LENGTH = 1,125 FT. = 0.213 MILE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED March 23 20 17  
Jeffrey A. South  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 12 20 17  
Maxwell M. Addis, P.E.  
ENGINEER OF DESIGN AND ENVIRONMENT

May 12 20 17  
Francis A. [Signature]  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

GENERAL NOTES

INDEX OF SHEETS

SHEET NO.	ITEM
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2	INDEX OF SHEETS AND GENERAL NOTES
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7-8	TYPICAL SECTIONS
9	SCHEDULE OF QUANTITIES
10	BRIDGE PLAN/PROFILE
11-12	BRIDGE APPROACH RESURFACING PLANS
13-15	TRAFFIC CONTROL PLANS
16-17	CROSSOVER DETAILS
18-69	BRIDGE PLANS
70-103	CROSS SECTIONS

THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED FOLLOWING THE LAST NUMBERED SHEET OF THE PLANS.

STD. NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-08	PAVEMENT JOINTS
420401-12	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
420601-06	24' PCC PAVEMENT
420701-03	PAVEMENT WELDED WIRE REINFORCEMENT
442101-07	CLASS B PATCHES
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
483001-04	PCC SHOULDER
515001-03	NAME PLATE FOR BRIDGES
542306-03	PRECAST REINFORCED CONCRETE ELLIPTICAL FLARED END SECTION
601001-05	PIPE UNDERDRAINS
601101-02	CONCRETE HEADWALLS FOR PIPE UNDERDRAINS
630001-11	STEEL PLATE BEAM GUARDRAIL
630201-07	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-07	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631026-06	TRAFFIC BARRIER TERMINAL, TYPE 5
631031-15	TRAFFIC BARRIER TERMINAL, TYPE 6
642001-02	SHOULDER RUMBLE STRIPS, 16 IN.
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701400-09	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-10	LANE CLOSURE, FREEWAY/EXPRESSWAY
701406-11	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS >= 45 MPH
701416-10	LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH CROSSOVER AND BARRIER
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS >= 45 MPH
701901-06	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIAL. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK. THE CONTRACTOR WILL BE PAID FOR THE QUANTITY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

FIELD MARKINGS OF UNDERGROUND UTILITIES IN CRITICAL AREAS MAY BE OBTAINED BY PROVIDING A MINIMUM OF 96 HOURS ADVANCE NOTICE THROUGH THE J.U.L.I.E. SYSTEM BY CALLING 800-892-0123.

ALL SUBBASE GRANULAR MATERIAL, TYPE B AND 4" STABILIZED SUBBASE PLACED DIRECTLY UNDER THE NEW PCC PAVEMENT CONNECTORS SHALL BE INCLUDED IN THE COST OF THE PAVEMENT CONNECTORS. ALSO ALL REINFORCEMENT PLACED WITHIN THE PAVEMENT CONNECTOR SHALL BE INCLUDED IN THE COST OF THE PAVEMENT CONNECTOR.

ALL WORK NECESSARY TO ATTACH THE PIPE DRAIN TO THE ABUTMENT DRAIN PIPE, TRENCHING IN THE PIPE DRAINS AND INSTALLING THE PIPE DRAIN TO THE CONCRETE HEADWALLS IS INCLUDED IN THE PAY ITEM OF PIPE DRAINS OF THE DIAMETER SELECTED.

THE MAXIMUM COMPACTED LIFT FOR ALL HOT-MIX ASPHALT ITEMS SHALL BE 4 INCHES.

THE TOTAL QUANTITY OF THERMOPLASTIC PAVEMENT MARKING-LINE 4" CONSISTS OF 5,334 FEET OF YELLOW.

THE TOTAL QUANTITY OF PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 6" CONSISTS OF 1,259 FEET OF WHITE AND 1,125 FEET OF YELLOW.

THE TOTAL QUANTITY OF PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6" CONSISTS OF 148 FEET OF WHITE.

THE TOTAL QUANTITY OF RAISED REFLECTIVE PAVEMENT MARKERS IS 28 ONE-WAY CRYSTAL MARKERS.

THE MATERIAL USED FOR AGGREGATE SHOULDERS, TYPE B AND AGGREGATE SHOULDERS, TYPE B 6" SHALL BE CRUSHED STONE OR CRUSHED CONCRETE.

THE RESIDENT ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE CURING TIME FOR THE VARIOUS HOT-MIX ASPHALT LIFTS.

THE CONTRACTOR SHALL PROVIDE INTERNET ACCESSIBILITY TO THE HOT-MIX ASPHALT PLANT QUALITY CONTROL LAB SO THAT HOT-MIX ASPHALT PLANT REPORTS CAN BE E-MAILED TO THE DISTRICT HEADQUARTERS. THIS WORK SHALL BE INCLUDED IN THE COST OF ALL HOT-MIX ASPHALT ITEMS.

A UNIFORMLY STRAIGHT SAW CUT SHALL BE MADE AT LOCATIONS WHERE PROPOSED NEW CONSTRUCTION WILL ABUT EXISTING HOT-MIX ASPHALT SURFACES. THE SAW CUT SHALL BE MADE FULL DEPTH THROUGH THE EXISTING SURFACE. THIS WORK WILL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT ITEMS INVOLVED AND NO EXTRA COMPENSATION WILL BE ALLOWED.

CA-6 CRUSHED STONE WITH A MINIMUM IBR OF 80 SHALL BE USED FOR AGGREGATE BASE COURSE, TYPE B FOR THE MEDIAN CROSSOVERS.

DURING THE CONSTRUCTION OF THE MEDIAN CROSSOVERS, THE CONTRACTOR SHALL INSTALL 13 BREAKAWAY SIGN SUPPORT COUPLERS IN THE NEW PAVEMENT OF EACH CROSSOVER SPACED 10' APART ALONG THE CENTERLINE OF I 70. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL FURNISH AND INSTALL 5' LENGTHS OF TELESCOPING STEEL SIGN SUPPORT IN THE COUPLERS ALREADY INSTALLED IN THE PCC CROSSOVER PAVEMENT. THE CONTRACTOR SHALL ALSO FURNISH AND INSTALL REFLECTORS CONFORMING TO ARTICLE 725.02 (A) ON THE STEEL SIGN SUPPORTS. FOUR REFLECTORS SHALL BE INSTALLED ON EACH POST.

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

POLYMERIZED HMA SURFACE COURSE, MIX "D", N90 (2" TOP LIFT)	PG 70-22	4.0% @ N=90	IL - 9.5	MIXTURE D	QC/QA
POLYMERIZED HMA BINDER COURSE (2 1/4" SECOND LIFT)	PG 70-22	4.0% @ N=90	IL - 19.0	N/A	QC/QA
HMA BINDER COURSE (4" AND 3 3/4")	PG 64-22	4.0% @ N=90	IL - 19.0	N/A	QC/QA
BRIDGE APPROACH RESURFACING:					
POLYMERIZED HMA SURFACE COURSE, MIX "D", N90 (2" TOP LIFT)	PG 70-22	4.0% @ N=90	IL - 9.5	MIXTURE D	QC/QA

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INDEX OF SHEETS, HIGHWAY STANDARDS &amp; GENERAL NOTES</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 7\Projects\7458\Drawings\CAD\Sheets\0774518-sht-index.dgn		CHECKED -	REVISED -			70	(26-3VB)BR-1	Fayette	103	2
Default	PLOT SCALE = 100.0000' / in.	DATE -	REVISED -			CONTRACT NO. 74518				
	PLOT DATE = 4/20/2017					ILLINOIS FED. AID PROJECT				
				SCALE:	SHEET OF SHEETS	STA.	TO STA.			

90% FEDERAL  
10% STATE

90% FEDERAL  
10% STATE

RURAL

RURAL

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0014	0042	
20200100	EARTH EXCAVATION	CU YD	224	224		
25100630	EROSION CONTROL BLANKET	SO YD	284	284		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	10	10		
28000400	PERIMETER EROSION BARRIER	FOOT	521	521		
35101400	AGGREGATE BASE COURSE, TYPE B	TON	6909	6909		
35501332	HOT-MIX ASPHALT BASE COURSE, 12"	SO YD	3594	3594		
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1207	1207		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	485	485		
40603545	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90	TON	158	158		
42000060	WELDED WIRE REINFORCEMENT	SO YD	1924	1924		
42000080	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SO YD	556	556		
42000510	PORTLAND CEMENT CONCRETE PAVEMENT 10 1/2"	SO YD	1924	1924		
44000100	PAVEMENT REMOVAL	SO YD	518	518		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0014	0042	
44000151	HOT-MIX ASPHALT SURFACE REMOVAL, 1/2"	SO YD	1566	1566		
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SO YD	459	459		
44004250	PAVED SHOULDER REMOVAL	SO YD	4353	4353		
44201043	CLASS B PATCHES, TYPE II, 16 INCH	SO YD	280	280		
44201047	CLASS B PATCHES, TYPE III, 16 INCH	SO YD	16	16		
44201299	DOWEL BARS 1 1/2"	EACH	525	525		
44213100	PAVEMENT FABRIC	SO YD	16	16		
44213200	SAW CUTS	FOOT	1380	1380		
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SO YD	23	23		
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	11	11		
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SO YD	26	26		
48203100	HOT-MIX ASPHALT SHOULDERS	TON	145	145		
48300510	PORTLAND CEMENT CONCRETE SHOULDERS 10 1/2"	SO YD	758	758		
50102400	CONCRETE REMOVAL	CU YD	92.9	92.9		

90% FEDERAL  
10% STATE

RURAL

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0014	0042	
50104720	REMOVAL OF EXISTING CONCRETE DECK	EACH	1	1		
50157300	PROTECTIVE SHIELD	SO YD	725	725		
50200100	STRUCTURE EXCAVATION	CU YD	735	735		
50300100	FLOOR DRAINS	EACH	16	16		
50300225	CONCRETE STRUCTURES	CU YD	329.5	329.5		
50300255	CONCRETE SUPERSTRUCTURE	CU YD	687.9	687.9		
50300260	BRIDGE DECK GROOVING	SO YD	2331	2331		
50300300	PROTECTIVE COAT	SO YD	2880	2880		
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	134.5	134.5		
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	LSUM	1	1		
50500505	STUD SHEAR CONNECTORS	EACH	5480	5480		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	259370	259370		
50800515	BAR SPLICERS	EACH	186	186		
51100100	SLOPE WALL 4 INCH	SO YD	288	288		

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RURAL

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0014	0042	
51200957	FURNISHING METAL SHELL PILES 12" X 0.250"	FOOT	834	834		
51202305	DRIVING PILES	FOOT	834	834		
51203200	TEST PILE METAL SHELLS	EACH	2	2		
51204650	PILE SHOES	EACH	43	43		
51500100	NAME PLATES	EACH	1	1		
52000110	PREFORMED JOINT STRIP SEAL	FOOT	95	95		
52000212	FINGER PLATE EXPANSION JOINT, 4"	FOOT	93	93		
52000600	FABRIC REINFORCED ELASTOMERIC TROUGH	FOOT	103	103		
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	3	3		
52100030	ELASTOMERIC BEARING ASSEMBLY, TYPE III	EACH	1	1		
52100520	ANCHOR BOLTS, 1"	EACH	8	8		
52100540	ANCHOR BOLTS, 1 1/2"	EACH	2	2		
52200020	TEMPORARY SOIL RETENTION SYSTEM	SO FT	188	188		
54214299	END SECTIONS, EQUIVALENT ROUND-SIZE 24"	EACH	4	4		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

FILE NAME :	USER NAME : staffmink	DESIGNED -	REVISED -	SCALE: SHEET OF SHEETS STA. TO STA.	F.A.T. RTE. 70	SECTION (26-3V8)BR-1	COUNTY Foyette	TOTAL SHEETS 103	SHEET NO. 4	CONTRACT NO. 74518	ILLINOIS FED. AID PROJECT
PROJECT: 1007 Offices/District 7/Projects/745	DRAWN: CADsheets\0774518-shr:aq:rev	CHECKED -	REVISED -								
PLOT SCALE x 100.0000 1" = 10'	DATE -	REVISED -	REVISED -								
PLOT DATE x 4/21/2017	DATE -	REVISED -	REVISED -								

90% FEDERAL  
10% STATE

RURAL

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10% STATE

RURAL

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		0014	0042
542A5479	PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 24"	FOOT	800	800	
58700300	CONCRETE SEALER	SO FT	1653	1653	
59000200	EPOXY CRACK INJECTION	FOOT	93	93	
59100100	GEOCOMPOSITE WALL DRAIN	SO YD	209	209	
60100905	PIPE DRAINS 4"	FOOT	271	271	
60108100	PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	16	16	
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	1091	1091	
* 63100070	TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	2	2	
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	2	2	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2	
63200310	GUARDRAIL REMOVAL	FOOT	1191	1191	
63800920	MODULAR GLARE SCREEN SYSTEM, TEMPORARY	FOOT	5760	5760	
64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	5803	5803	

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		0014	0042
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	14	14	
67100100	MOBILIZATION	LSUM	1	1	
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	2	2	
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	LSUM	1	1	
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	LSUM	1	1	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	10	10	
70107007	PAVEMENT MARKING BLACKOUT TAPE, 7"	FOOT	500	500	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	5760	5760	
* 72500100	OBJECT MARKER - TYPE 1	EACH	104	104	
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	2	2	
* 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	130	130	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	5334	5334	

\* SPECIALTY ITEM

FILE NAME :	USER NAME : staffanmk	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>	F.A.T. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PH:\11.084EBID\INTEG.illinois.gov\PI\001\Documents\1007-Offices\District 7\Projects\745-DRAWING\CAD\Sheets\0774510-shr-sag-rev.dwg	PLLOT SCALE : 100.0000 ' / in.	CHECKED -	REVISED -			70	(26-3VB)BR-1	Fayette	103	5	
Default	PLLOT DATE : 4/21/2017	DATE -	REVISED -			CONTRACT NO. 74518		ILLINOIS FED. AID PROJECT			
SCALE:		SHEET OF SHEETS				STA. TO STA.					

90% FEDERAL  
10% STATE

90% FEDERAL  
10% STATE

RURAL

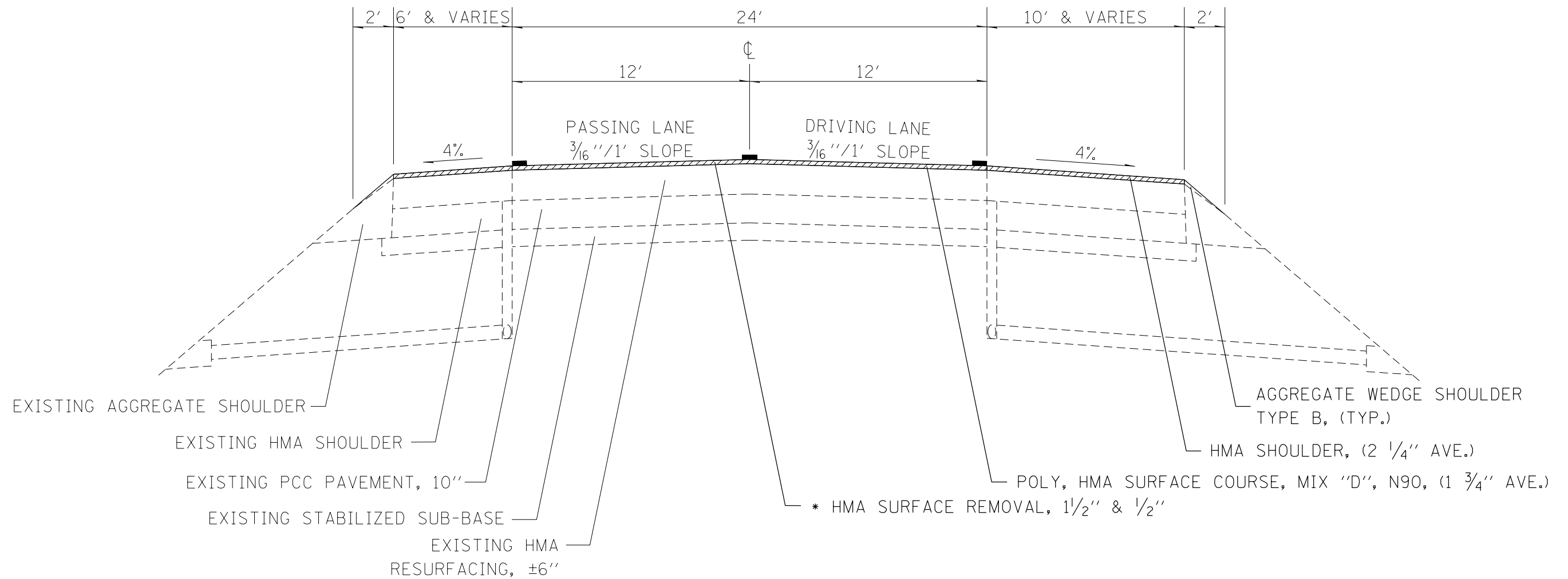
RURAL

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0014	0042	
* 78003130	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 6"	FOOT	2384	2384		
* 78004230	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6"	FOOT	148	148		
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	28	28		
78100200	TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER	EACH	158	158		
78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	19	19		
X0327979	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	1586	1586		
X2111000	TOPSOIL EXCAVATION	CU YD	910	910		
X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.1	0.1		
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	172	172		
X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	528	528		
X6050310	FILLING INLETS, SPECIAL	EACH	2	2		
X7010212	TRAFFIC CONTROL AND PROTECTION, STANDARD 701416 (SPECIAL)	EACH	1	1		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0014	0042	
X7010410	SPEED DISPLAY TRAILER	CAL MO	5	5		
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	28	28		
X7270008	BREAKAWAY SIGN SUPPORT COUPLER	EACH	26	26		
* X7830070	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	5334	5334		
* X7830074	GROOVING FOR RECESSED PAVEMENT MARKING 7"	FOOT	2384	2384		
Z0001903	STRUCTURAL STEEL REMOVAL	POUND	10610	10610		
Z0004552	APPROACH SLAB REMOVAL	SQ YD	266	266		
Z0005010	HOT-MIX ASPHALT FOR PATCHING POTHOLES (COLD MIX)	TON	10	10		
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	22	22		
Z0018002	DRAINAGE SCUPPERS, DS-11	EACH	2	2		
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	250	250		
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	LSUM	1	1		
φ Z0076600	TRAINEES	HOUR	500		500	
φ Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500		500	

\* SPECIALTY ITEM  
φ 0042

FILE NAME :	USER NAME : staffennk	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ps:\VL084EBID\INTEG\Illinois.gov\PI\DOT\Documents\DOT Offices\District 7\Projects\745\DRAWING\CAD\sheet\0774518-sht\sq\rev	PLLOT SCALE : 100.0000 1/1 in.	CHECKED -	REVISED -					70	(26-3VB118R-1)	Fayette	103	6
Default	PLLOT DATE : 4/21/2017	DATE -	REVISED -		SCALE:	SHEET OF SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT				
CONTRACT NO. 74518												



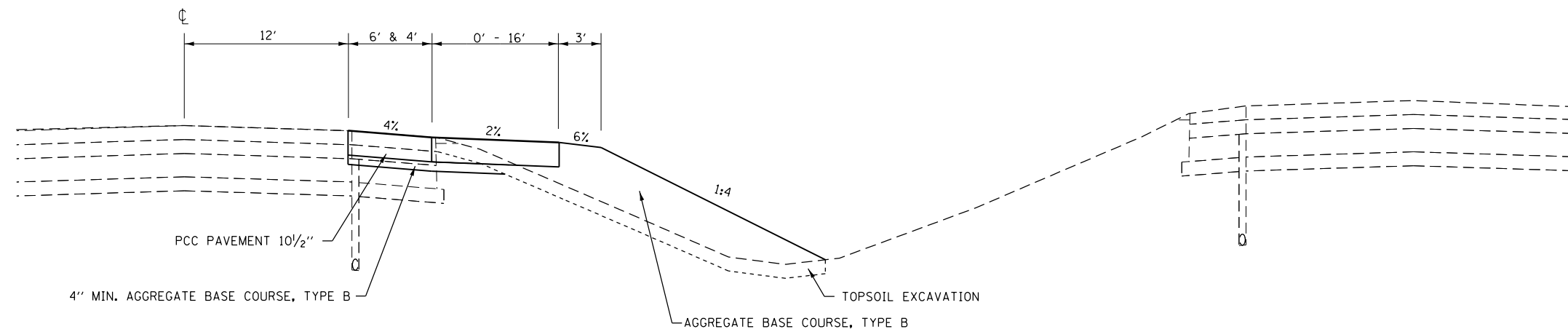
TYPICAL SECTION FAI ROUTE 70: WESTBOUND

STA 706+75 TO STA 707+36: \* 1 1/2" MILLING

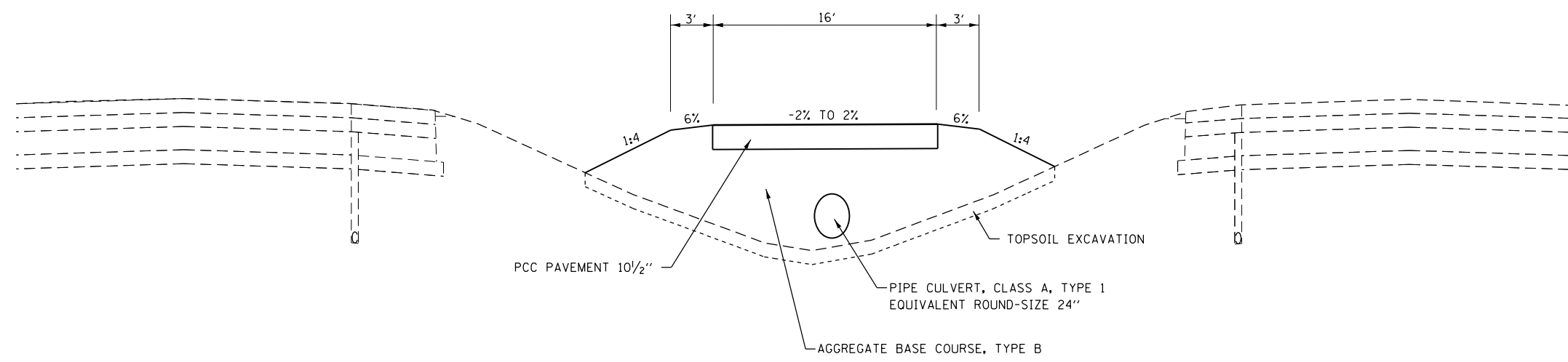
STA 713+85 TO STA 718+00: \* 1/2" MILLING

(LOOKING WEST)

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>WESTBOUND I 70 TYPICAL SECTION</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 7\Projects\74518\Drawings\CAD\Sheets\0774518-sht-typical.dwg	DESIGNED -	REVISED -	70					(26-3VBI)BR-1	Fayette	103	7	
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -		CONTRACT NO. 74518			ILLINOIS FED. AID PROJECT				
	PLOT DATE = 3/23/2017	DATE -	REVISED -		SCALE:	SHEET OF SHEETS	STA. TO STA.					



TYPICAL SECTION AT CROSSOVER SHOULDER



TYPICAL SECTION OF CROSSOVER AT FULL WIDTH

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CROSSOVER TYPICAL SECTIONS</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 7\Projects\74518\Drawings\CAD\Sheets\0774518-sh-typical.dwg	8/23/2017	CHECKED -	REVISED -					70	(26-3VB)BR-1	Fayette	103	8
Default	PLOT SCALE = 100.0000' / in.	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.			CONTRACT NO. 74518				
	PLOT DATE = 3/23/2017				ILLINOIS FED. AID PROJECT							



**BRIDGE EARTHWORK SCHEDULE**

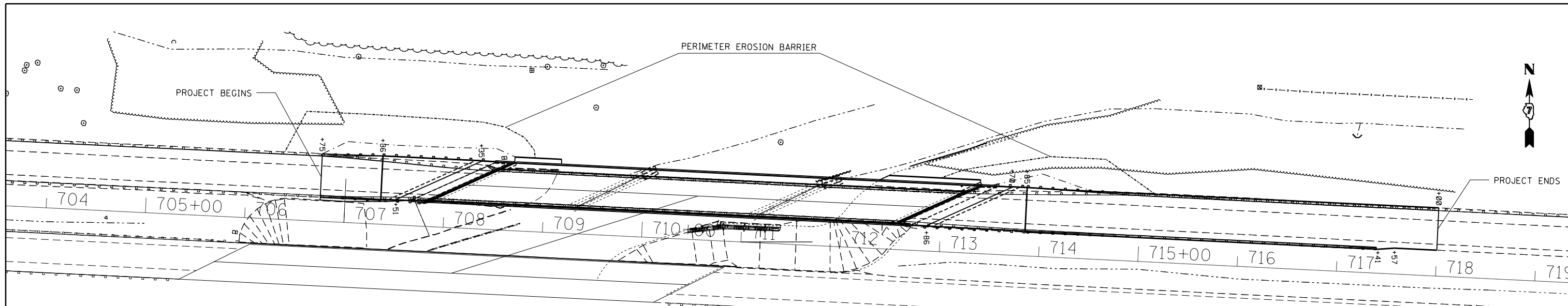
LOCATION	EARTH EXCAVATION (cut)	EARTH EXC. ADJ. FOR SHRINKAGE	NON-AGGREGATE EMBANKMENT (fill)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	CU YD	CU YD	CU YD	CU YD
706+75 TO 707+00	1.2	0.9	4.9	-4.0
707+00 TO 707+50	7.7	5.8	21.0	-15.3
707+50 TO 708+00	9.6	7.2	26.3	-19.1
708+00 TO 708+50	4.4	3.3	42.3	-39.0
708+50 TO 709+00	0.0	0.0	27.2	-27.2
709+00 TO 709+50	0.0	0.0	0.0	0.0
709+50 TO 710+00	0.0	0.0	0.0	0.0
710+00 TO 710+50	0.0	0.0	0.0	0.0
710+50 TO 711+00	0.0	0.0	0.0	0.0
711+00 TO 711+50	0.0	0.0	0.0	0.0
711+50 TO 712+00	0.0	0.0	0.0	0.0
712+00 TO 712+50	0.0	0.0	0.0	0.0
712+50 TO 713+00	0.0	0.0	0.0	0.0
713+00 TO 713+50	4.6	3.5	0.0	3.5
713+50 TO 714+00	4.3	3.2	14.7	-11.5
714+00 TO 714+50	1.2	0.9	19.7	-18.9
714+50 TO 715+00	0.0	0.0	0.0	0.0
715+00 TO 715+50	0.0	0.0	0.0	0.0
715+50 TO 716+00	0.0	0.0	0.0	0.0
716+00 TO 716+50	0.0	0.0	0.0	0.0
716+50 TO 717+00	0.0	0.0	0.0	0.0
717+00 TO 717+50	0.0	0.0	0.0	0.0
717+50 TO 718+00	0.0	0.0	0.0	0.0
<b>TOTALS:</b>	<b>33.0</b>	<b>24.7</b>	<b>156.2</b>	<b>-131.5</b>

STATION TO STATION	FOOT	SQ FT	FOOT	FOOT	FOOT	FOOT	EACH	FOOT
<b>EB PL SHOULDER:</b>								
689+47 TO 721+10	3163	976	0	0	3163	0	0	0
647+11 TO 668+82	2171	610	0	0	2171	0	0	0
<b>EB DL SHOULDER:</b>								
690+71 TO 705+54	0	0	0	0	0	0	0	1483
705+54 TO 710+31	0	0	0	0	0	0	0	0
710+31 TO 721+10	0	0	0	0	0	0	0	1079
647+11 TO 667+72	0	0	0	0	0	0	0	2061
<b>WB BRIDGE:</b>								
706+75 TO 707+36	0	0	122	15	0	122	2	122
707+36 TO 707+93	0	0	114	14	0	114	1	114
707+93 TO 713+28	0	0	1204	0	0	1204	13	0
713+28 TO 713+85	0	0	114	14	0	114	1	114
713+85 TO 718+00	0	0	830	104	0	830	10	830
<b>TOTALS</b>	<b>5334</b>	<b>1586</b>	<b>2384</b>	<b>148</b>	<b>5334</b>	<b>2384</b>	<b>28</b>	<b>5803</b>

CLASS B PATCHING	CLASS B PATCHES, TYPE II, 16 INCH	CLASS B PATCHES, TYPE III, 16 INCH	PAVEMENT FABRIC	SAW CUTS	DOWEL BARS 1 1/2"
	SQ YD	SQ YD	SQ YD	FOOT	EACH
EB DRIVING LANE	179	16	16	904	345
EB PASSING LANE	101	0	0	476	180
<b>TOTALS:</b>	<b>280</b>	<b>16</b>	<b>16</b>	<b>1380</b>	<b>525</b>

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNED		
	CHECKED		
	FILED		
	CARD FILE NAME		
	NO.		

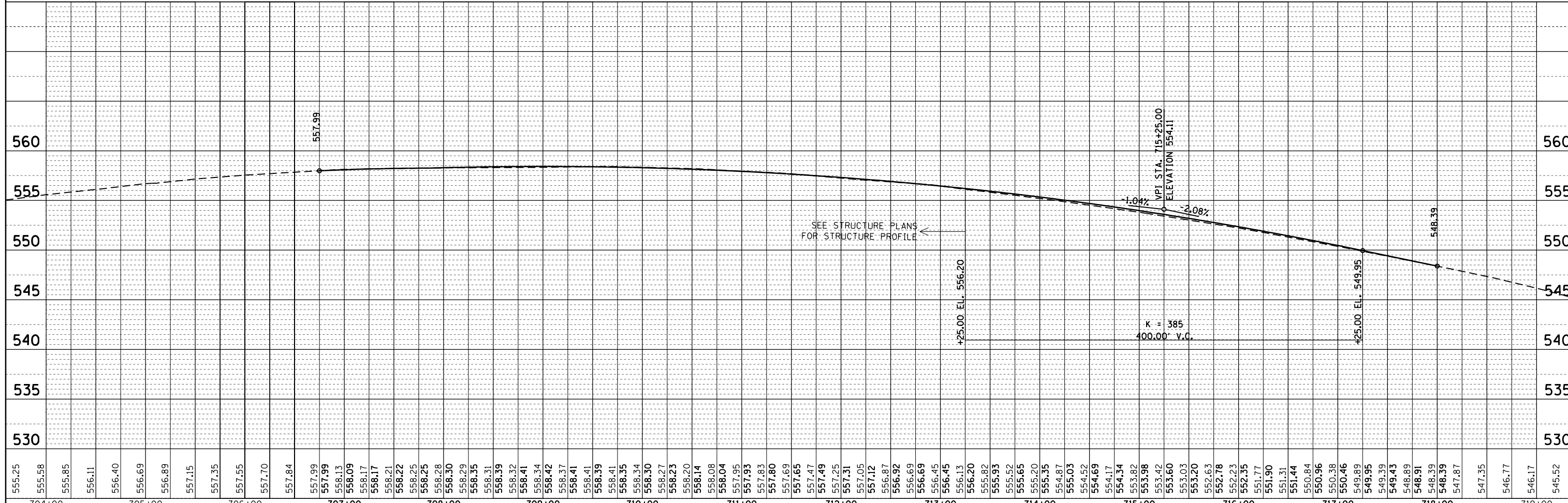
PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE		
	NOTATIONS CHECKED		
	NO.		



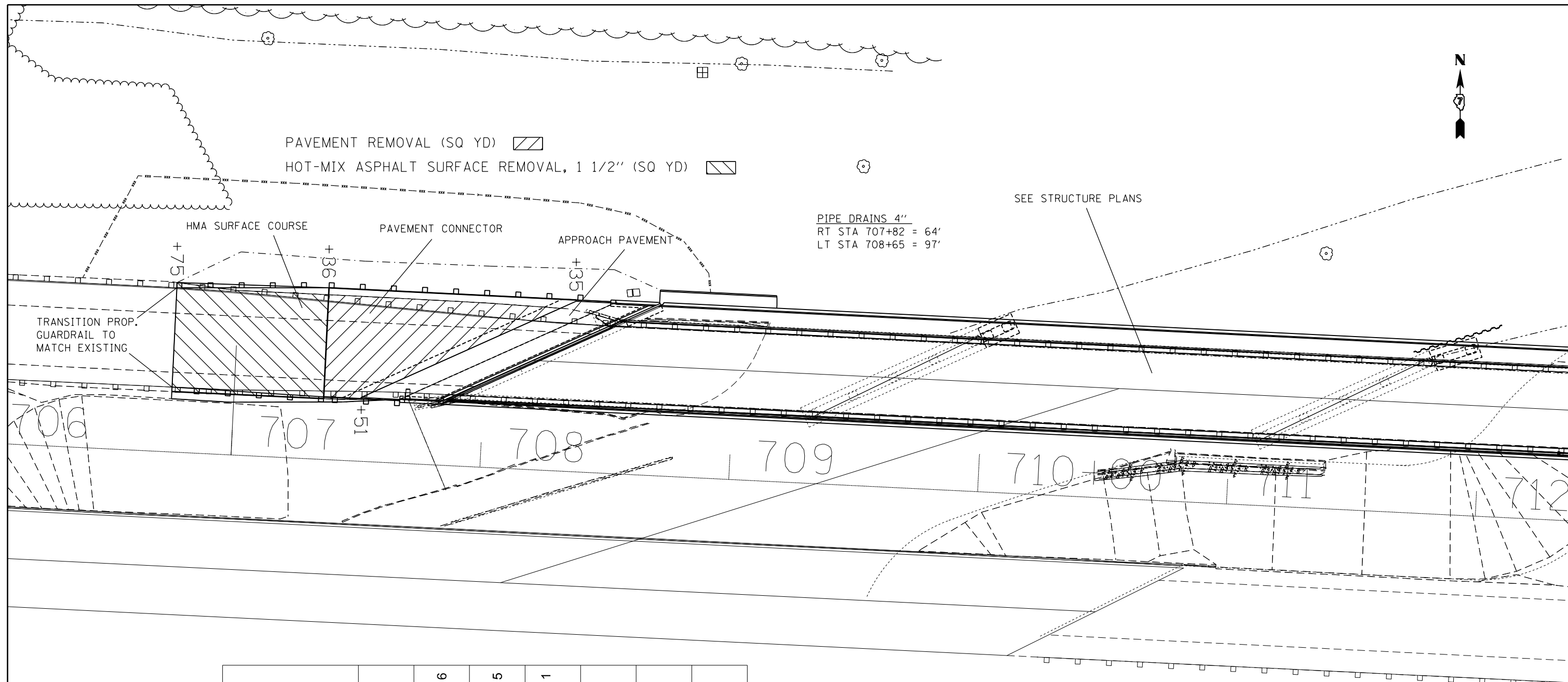
**EROSION CONTROL GENERAL NOTES**

- EROSION CONTROL MEASURES AT THE START OF CONSTRUCTION:**
- THE AREAS OF EXCAVATION AND EMBANKMENT PLACEMENT SHALL BE MANAGED FOR THE PURPOSES OF CONTROLLING EROSION WITHIN THE IMPROVEMENT AREA, REDUCING WATER FLOW BY TEMPORARY DIVERSION, MINIMIZING SILTATION AT THE RIGHT-OF-WAY LINE, AND ESTABLISHING VEGETATIVE COVER WHICH WILL BECOME PERMANENT VEGETATION AND ACT AS AN EROSION CONTROL BARRIER. WORK AT THE START OF CONSTRUCTION SHALL CONSIST OF THE FOLLOWING:
    - AREAS OF EXISTING VEGETATION (WOODS AND GRASSLANDS) OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE IDENTIFIED FOR PRESERVING AND SHALL BE PROTECTED FROM BRUSH CUTTING, TREE REMOVAL AND OTHER ACTIVITIES THAT WOULD BE DETRIMENTAL TO THEIR MAINTENANCE AND DEVELOPMENT.
    - DEAD, DISEASED, OR UNSUITABLE VEGETATION WITHIN THE SITE SHALL BE REMOVED AS DIRECTED BY THE ENGINEER.
    - BARE AND SPARSELY VEGETATED GROUND IN HIGHLY ERODIBLE AREAS AS DETERMINED BY THE ENGINEER SHALL BE TEMPORARILY SEEDED AT THE START OF CONSTRUCTION WHEN NO CONSTRUCTION ACTIVITIES ARE EXPECTED WITHIN SEVEN CALENDAR DAYS.
- EROSION CONTROL MEASURES DURING CONSTRUCTION:**
- DURING CONSTRUCTION, AREAS OUTSIDE THE CONSTRUCTION LIMITS AS OUTLINED PREVIOUSLY HEREIN SHALL BE PROTECTED FROM DAMAGING EFFECTS OF CONSTRUCTION, THE CONTRACTOR SHALL NOT USE THIS AREA FOR PARKING OF VEHICLES OR CONSTRUCTION EQUIPMENT, STORAGE OF MATERIALS, OR OTHER CONSTRUCTION RELATED ACTIVITIES.
    - WITHIN THE CONSTRUCTION ZONE, CRITICAL AREAS WHICH HAVE A HIGH FLOW OF WATER, AS DETERMINED BY THE ENGINEER, SHALL REMAIN UNDISTURBED UNTIL CONTINUOUS OPERATIONS CAN ENSURE TIMELY COMPLETION OF WORK IN THESE AREAS TO MINIMIZE SOIL EROSION.
    - EARTH STOCKPILES SHALL BE TEMPORARILY SEEDED IF THEY ARE TO REMAIN UNUSED FOR MORE THAN FOURTEEN CALENDAR DAYS.
- EROSION CONTROL MEASURES AFTER FINAL GRADING:**
- EXCAVATION & EMBANKMENT AREAS SHALL BE PERMANENTLY SEEDED WHEN FINAL GRADED.
    - TEMPORARY EROSION CONTROL SYSTEMS SHALL REMAIN IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY WITH ALL PROPOSED TURF AREAS SEEDED AND A PROPER STAND ESTABLISHED.

**LEGEND**  
 - xxx - PERIMETER EROSION BARRIER



FILE NAME =	USER NAME = steffennk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				BRIDGE PLAN/PROFILE				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pwt:\IL084EBIDINTEG.allinois.gov\PIDOT\Documents\100T Offices\District 7\Projects\74518\DRAWN\CAD\Sheets\0774518-sht-profile.dwg								70	(26-3VB)BR-1	Fayette	103	10				
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -	SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	CONTRACT NO. 74518					
	PLOT DATE = 3/23/2017	DATE -	REVISED -	ILLINOIS FED. AID PROJECT												



GUARDRAIL SCHEDULE		STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 6	TRAFFIC BARRIER TERMINAL, TYPE 5	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	GUARDRAIL REMOVAL	GUARDRAIL REFLECTORS, TYPE A	TERMINAL MARKER - DIRECT APPLIED
SIDE	STA TO STA	FOOT	EACH	EACH	EACH	FOOT	EACH	EACH
LT	706+75 TO 708+49	161	0	1	0	174	2	0
RT	706+75 TO 707+67	78	0	1	0	92	1	0
	<b>TOTAL</b>	<b>239</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>266</b>	<b>3</b>	<b>0</b>

PAVING SCHEDULE			PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	PAVEMENT REMOVAL	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	HOT-MIX ASPHALT SHOULDERS, 8"	AGGREGATE SHOULDERS, TYPE B 6"	POLY HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90	HOT-MIX ASPHALT SHOULDERS	BITUMINOUS MATERIALS (TACK COAT)
STATION TO STATION	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	TON	TON	TON	TON	POUND
706+75 TO 707+36	0	0	286	14	14	11	9	129		
707+36 TO 708+35	278	247	0	0	0	0	0	0		
<b>TOTAL</b>	<b>278</b>	<b>247</b>	<b>286</b>	<b>14</b>	<b>14</b>	<b>11</b>	<b>9</b>	<b>129</b>		

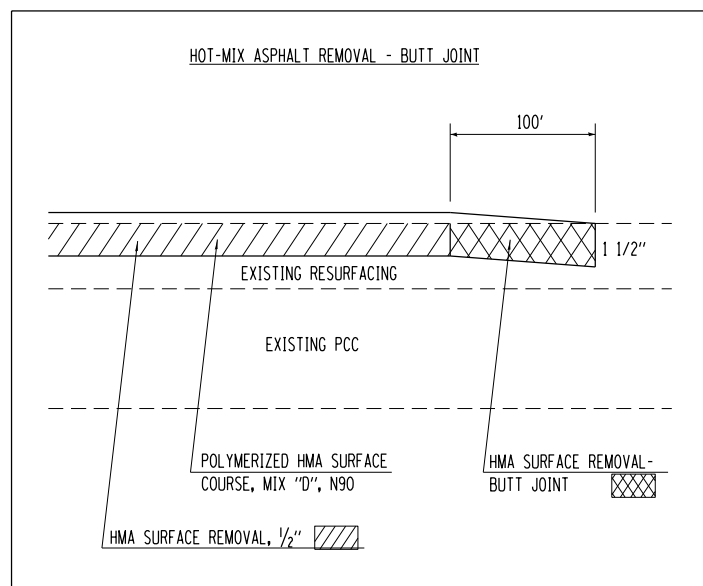
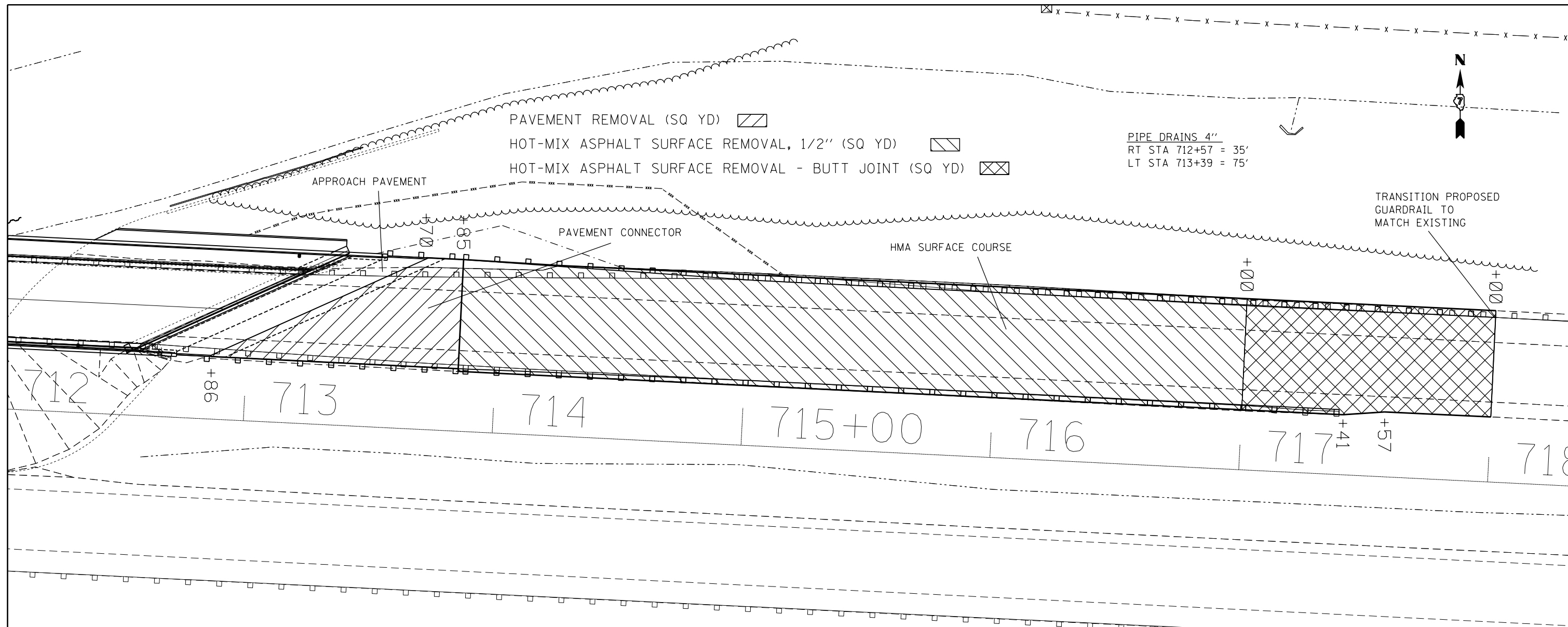
FILE NAME =  
 USER NAME = steffenmk  
 DESIGNED -  
 REVISIONS:  
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 PLOT SCALE = 40.0000' / in.  
 CHECKED -  
 REVISIONS:  
 REVISIONS:  
 PLOT DATE = 4/7/2017  
 DATE -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE PLAN VIEW - WEST END**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(26-3VBI)BR-1	Fayette	103	11
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74518	



GUARDRAIL SCHEDULE			STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 6	TRAFFIC BARRIER TERMINAL, TYPE 5	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	GUARDRAIL REMOVAL	GUARDRAIL REFLECTORS, TYPE A	TERMINAL MARKER - DIRECT APPLIED
SIDE	STA TO STA	FOOT	EACH	EACH	EACH	FOOT	EACH	EACH	EACH
LT	713+55 718+00	409	1	0	0	445	6	0	
RT	712+72 717+39	380	1	0	1	467	6	1	
	<b>TOTAL</b>	<b>789</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>912</b>	<b>12</b>	<b>1</b>	

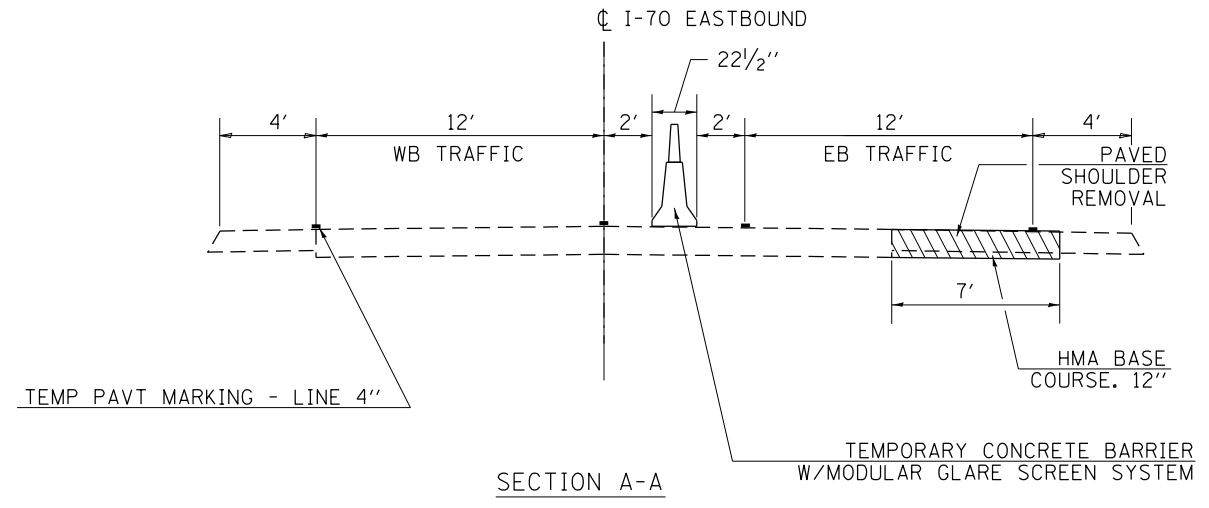
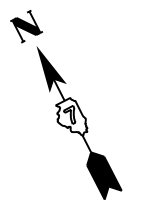
PAVING SCHEDULE		PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	PAVEMENT REMOVAL	HOT-MIX ASPHALT SURFACE REMOVAL, 1/2"	HOT-MIX ASPHALT SHOULDERS, 8"	AGGREGATE SHOULDERS, TYPE B 6"	AGGREGATE WEDGE SHOULDER, TYPE B	POLY HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90	HOT-MIX ASPHALT SHOULDERS	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT
STATION TO STATION		SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	TON	TON	TON	POUND	SQ YD
712+86 TO 713+85		278	271	0	0	0	0	0	0	0	0
713+85 TO 717+00		0	0	1566	12	9	8	105	99	705	0
717+00 TO 718+00		0	0	0	0	0	3	19	23	218	485
<b>TOTALS</b>		<b>278</b>	<b>271</b>	<b>1566</b>	<b>12</b>	<b>9</b>	<b>11</b>	<b>123</b>	<b>122</b>	<b>923</b>	<b>485</b>

FILE NAME =  
 USER NAME = steffenmk  
 DESIGNED -  
 REVISIONS -  
 PLOT SCALE = 40.0000' / in.  
 CHECKED -  
 DATE -  
 PLOT DATE = 4/7/2017

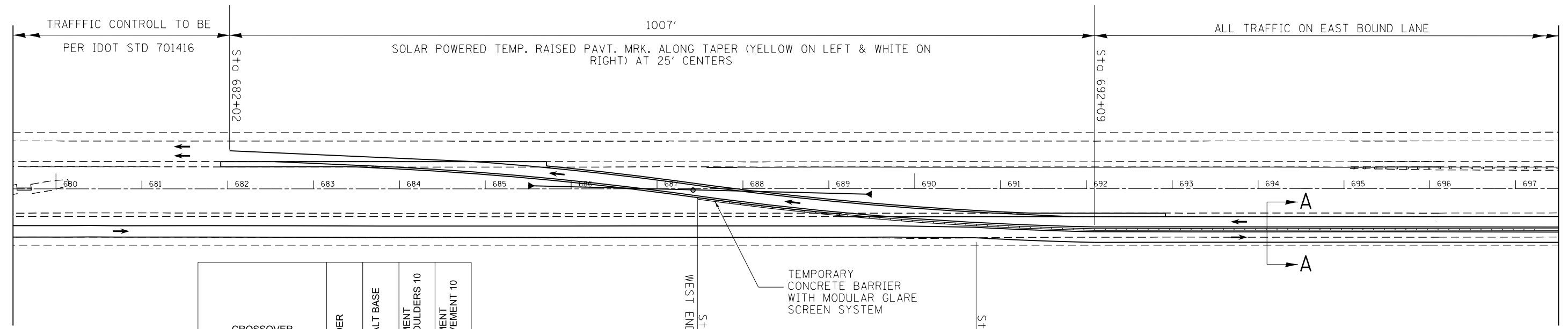
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE PLAN VIEW - EAST END**  
 SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(26-3VBI)BR-1	Fayette	103	12
CONTRACT NO. 74518			ILLINOIS FED. AID PROJECT	

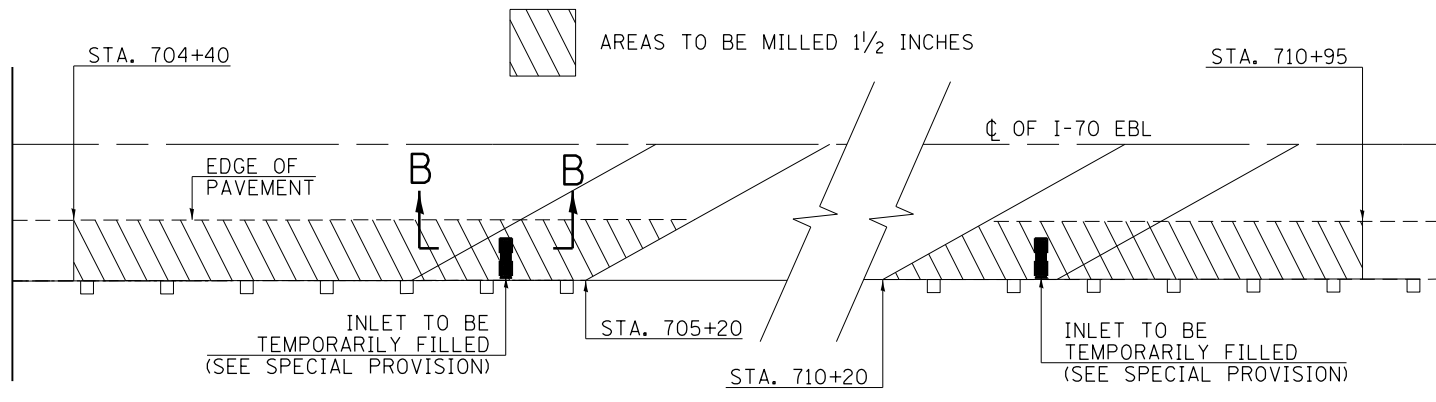
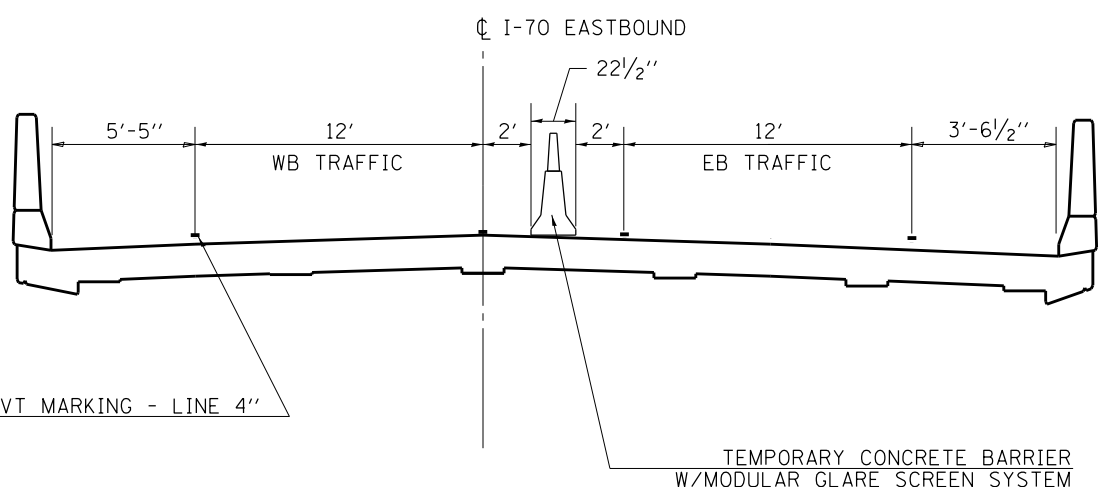
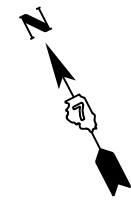


STATION TO STATION		PAVEMENT MARKING BLACKOUT TAPE, 7"	TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER	MODULAR GLARE SCREEN SYSTEM, TEMPORARY	TEMPORARY CONCRETE BARRIER
TO	FROM	SQ YD	EACH	FOOT	FOOT
652+93	TO 662+93	250	0	0	0
662+93	TO 682+02	0	0	0	0
682+02	TO 687+47	0	44	0	0
687+47	TO 692+09	0	36	462	462
692+09	TO 705+54	0	0	1345	1345
705+54	TO 710+31	0	0	477	477
710+31	TO 721+10	0	0	1079	1079
647+11	TO 665+40	0	0	1829	1829
665+40	TO 671+08	0	46	568	568
671+08	TO 675+12	0	32	0	0
675+12	TO 685+12	0	0	0	0
685+12	TO 695+12	250	0	0	0
TOTALS		500	158	5760	5760



CROSSOVER PAVING	PAVED SHOULDER REMOVAL	HOT-MIX ASPHALT BASE COURSE, 12"	PORTLAND CEMENT CONCRETE SHOULDERS 10 1/2"	PORTLAND CEMENT CONCRETE PAVEMENT 10 1/2"
STATION TO STATION	SQ YD	SQ YD	SQ YD	SQ YD
EASTBOUND I 70:				
RT 690+72 TO RT 705+37	1139	1139	-	-
BRIDGE OMISSION				
RT 710+15 TO RT 721+10	852	852	-	-
STATION EQUATION				
RT 647+11 TO RT 667+72	1603	1603	-	-
CROSSOVER SHOULDER:				
LT 681+92 TO LT 685+71	253	-	253	-
RT 689+13 TO RT 692+92	168	-	168	-
RT 665+02 TO RT 668+82	169	-	169	-
LT 672+23 TO LT 676+02	168	-	168	-
WEST CROSSOVER PAVT.	-	-	-	938
EAST CROSSOVER PAVT.	-	-	-	986
TOTALS	4353	3594	758	1924

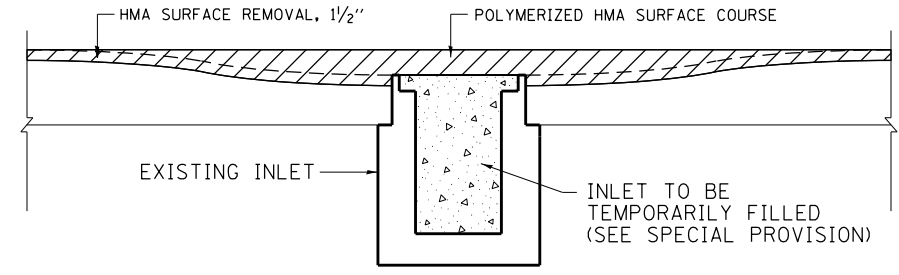
NOTE: SEE STANDARD 701416 FOR DETAILS NOT SHOWN



**SHOULDER PAVING DETAIL**

**SECTION A-A**

STATION TO STATION		SQ YD	POUND	TON	TON	SQ YD
RT 704+40	TOR RT 705+20	89	80	7	12	89
RT 710+20	TOR RT 710+95	83	75	7	12	83
<b>TOTALS</b>		<b>173</b>	<b>155</b>	<b>14</b>	<b>24</b>	<b>172</b>

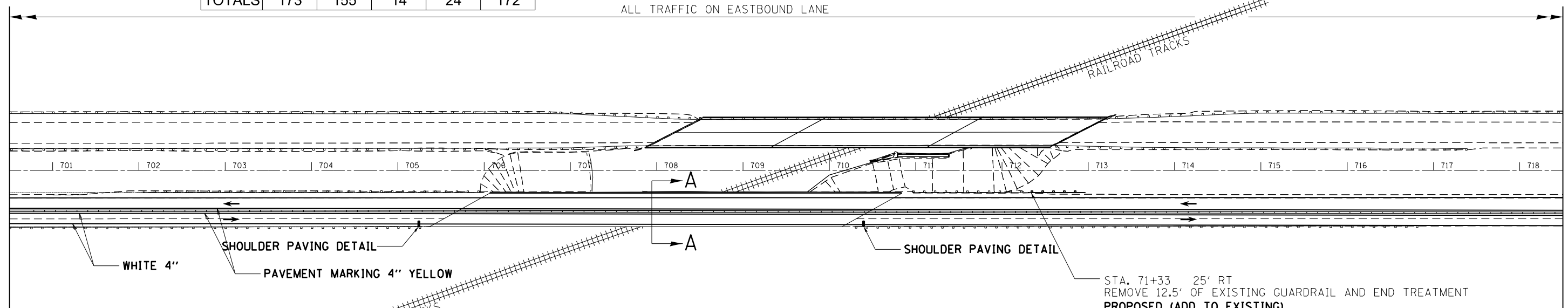


**SECTION B-B**

**NOTES:**

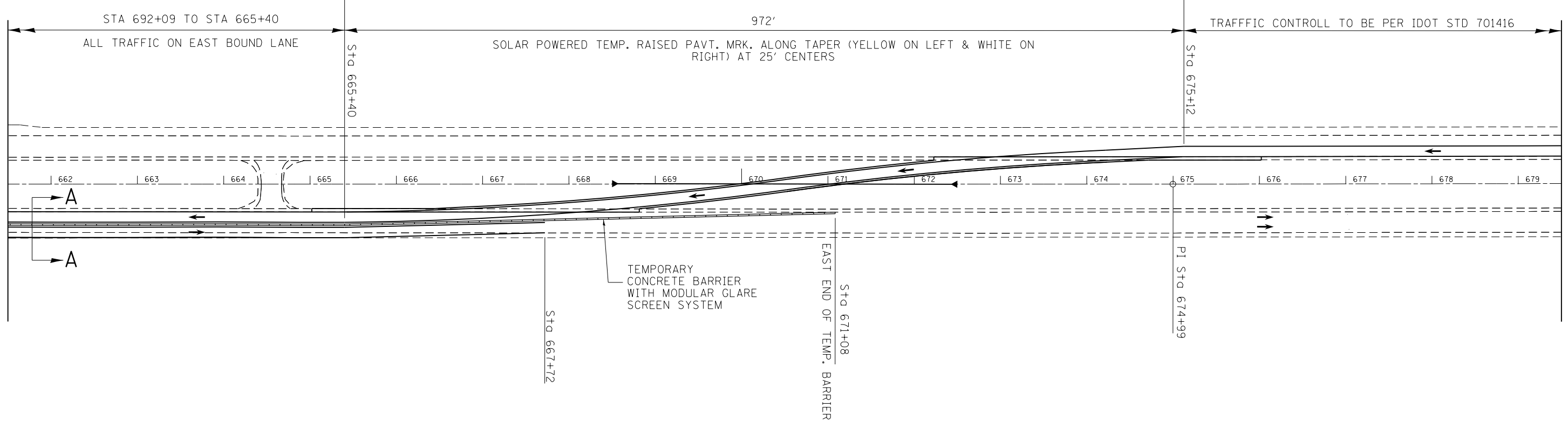
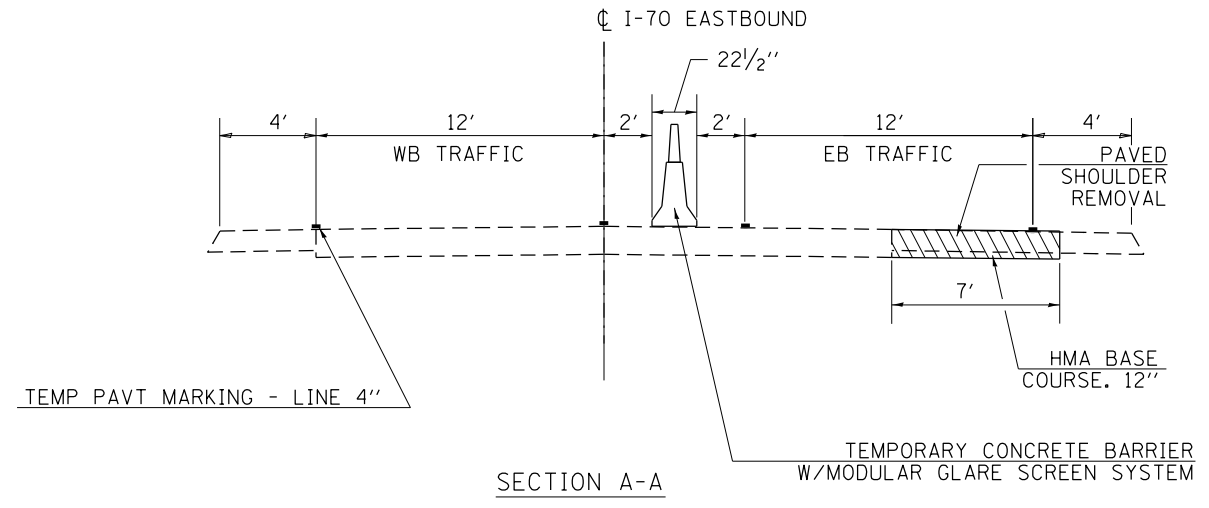
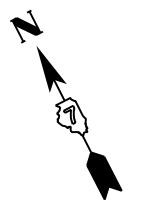
1. THIS WORK SHALL BE DONE PRIOR TO UTILIZING TRAFFIC CONTROL STANDARD 701416 AND PLACING TRAFFIC HEAD-TO-HEAD.
2. THE DRIVING LANE SHOULDER SHALL BE MILLED 1 1/2" OR AS DIRECTED BY THE ENGINEER.
3. HMA SURFACE COURSE SHALL BE PLACED VARIABLE DEPTH IN ORDER TO ATTAIN 4% CROSS SLOPE OR AS DIRECTED BY THE ENGINEER.
4. AFTER COMPLETION OF THE PROJECT AND REMOVAL OF TRAFFIC CONTROL STANDARD 701416, THE HMA SURFACE COURSE SHALL BE REMOVED AND REPLACED WITH 1 1/2" HMA SHOULDER TO THE ORIGINAL ELEVATIONS AND CROSS SLOPES.

ALL TRAFFIC ON EASTBOUND LANE



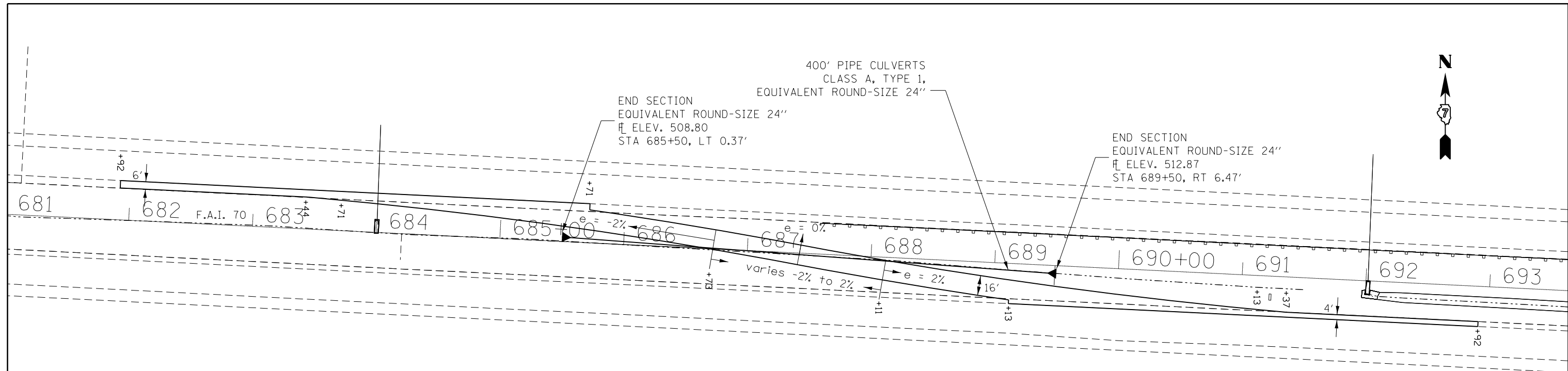
NOTE: SEE STANDARD 701416 FOR DETAILS NOT SHOWN

STA. 71+33 25' RT  
 REMOVE 12.5' OF EXISTING GUARDRAIL AND END TREATMENT  
 PROPOSED (ADD TO EXISTING)  
 62.5' STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS  
 1 EA - TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL (TANGENT)  
 4 EA - GUARDRAIL REFLECTORS, TYPE A  
 1 EA - TERMINAL MARKER - DIRECT APPLIED



NOTE: SEE STANDARD 701416 FOR DETAILS NOT SHOWN

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EAST CROSSOVER PLAN</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG.illinois.gov\PI\DOT\Documents\IDOT Offices\District 7\Projects\7458\Drawings\CAD\Sheets\0774518-shr-traffic.dwg	8/2/2017	CHECKED -	REVISED -					70	(26-3VB)BR-1	FAYETTE	103	15
Default	PLOT SCALE = 1200.0000' / in.	DATE -	REVISED -		SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.			CONTRACT NO. 74518				
	PLOT DATE = 4/7/2017				ILLINOIS FED. AID PROJECT							



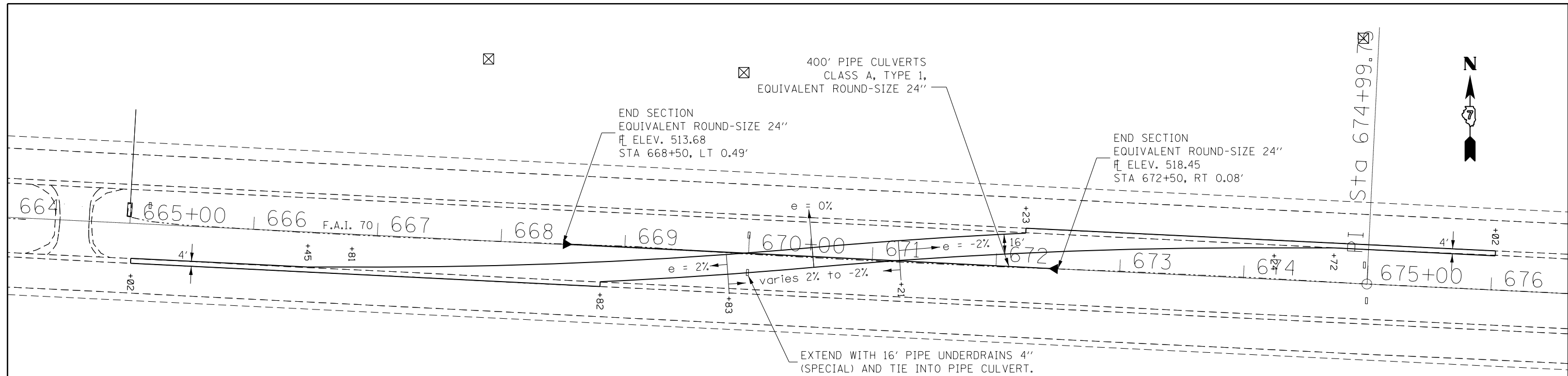
ELEVATION AND OFFSET DATA

LEFT EOP			CENTERLINE CROSSOVER			RIGHT EOP		
STATION	OFFSET	ELEVATION	STATION	OFFSET	ELEVATION	STATION	OFFSET	ELEVATION
-	-	-	-	-	-	683+50.0	-25.48	512.42
-	-	-	-	-	-	684+00.0	-23.13	512.48
-	-	-	-	-	-	684+50.0	-20.2	512.60
-	-	-	-	-	-	685+00.0	-16.65	512.78
-	-	-	-	-	-	685+50.0	-12.46	513.02
685+71.3	-26.56	513.47	685+70.5	-18.59	513.31	685+69.8	-10.63	513.15
686+00.8	-23.64	513.73	686+00.0	-15.68	513.57	685+99.2	-7.72	513.41
686+50.9	-18.18	514.17	686+50.0	-10.23	514.01	686+49.1	-2.29	513.85
686+74.0	-15.46	514.38	686+73.0	-7.51	514.22	686+72.0	0.43	514.06
687+01.0	-12.09	514.55	687+00.0	-4.15	514.45	686+99.0	3.79	514.35
687+51.1	-5.37	514.89	687+50.0	2.56	514.90	687+48.9	10.48	514.92
688+01.0	1.14	515.20	688+00.0	9.08	515.34	687+99.0	17.01	515.47
688+12.0	2.48	515.28	688+11.0	10.42	515.44	688+10.0	18.36	515.60
688+50.9	7.00	515.62	688+50.0	14.95	515.78	688+49.1	22.90	515.94
689+00.8	12.23	516.06	689+00.0	20.20	516.22	688+99.2	28.16	516.38
689+14.1	13.52	516.18	689+13.3	21.48	516.34	689+12.6	29.45	516.50
689+50.0	16.77	516.38	-	-	-	-	-	-
690+00.0	20.75	516.81	-	-	-	-	-	-
690+50.0	24.11	517.37	-	-	-	-	-	-
691+00.0	26.83	517.94	-	-	-	-	-	-

WEST CROSSOVER EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION	EARTH EXC. FOR ADJ. SHRINKAGE	TOPSOIL EXCAVATION	AGGREGATE EMBANKMENT	EARTHWORK BALANCE
	(cut)		(cut)	(fill)	WASTE (+) OR SHORTAGE (-)
	CU YD	CU YD	CU YD	CU YD	CU YD
681+92 TO 682+00	1.3	1.0	0.8	2.2	1.0
682+00 TO 682+50	8.1	6.1	5.1	14.3	6.1
682+50 TO 683+50	8.0	6.0	6.2	15.6	6.0
683+00 TO 683+50	7.6	5.7	9.5	19.5	5.7
683+50 TO 684+00	7.2	5.4	13.2	26.9	5.4
684+00 TO 684+50	7.3	5.5	19.1	50.8	5.5
684+50 TO 685+00	7.6	5.7	25.0	78.5	5.7
685+00 TO 685+50	7.7	5.8	27.0	93.4	5.8
685+50 TO 686+00	3.8	2.9	29.3	111.6	2.9
686+00 TO 686+50	0.0	0.0	31.1	138.9	0.0
686+50 TO 687+00	0.0	0.0	31.5	167.6	0.0
687+00 TO 687+50	0.0	0.0	31.3	181.7	0.0
687+50 TO 688+00	0.0	0.0	30.8	174.3	0.0
688+00 TO 688+50	0.0	0.0	30.2	148.8	0.0
688+50 TO 689+00	1.6	1.2	21.2	86.8	1.2
689+00 TO 689+50	4.5	3.4	25.6	89.7	3.4
689+50 TO 690+00	4.8	3.6	23.0	71.5	3.6
690+00 TO 690+50	4.9	3.6	20.3	60.6	3.6
690+50 TO 691+00	5.0	3.8	16.7	42.2	3.8
691+00 TO 691+50	5.4	4.1	10.8	21.6	4.1
691+50 TO 692+00	5.6	4.2	7.9	16.4	4.2
692+00 TO 692+50	5.7	4.2	8.4	17.1	4.2
692+50 TO 692+92	4.9	3.7	7.0	14.2	3.7
<b>TOTALS:</b>	<b>101.0</b>	<b>75.7</b>	<b>431.1</b>	<b>1644.2</b>	<b>75.7</b>





ELEVATION AND OFFSET DATA

LEFT EOP			CENTERLINE CROSSOVER			RIGHT EOP		
STATION	OFFSET	ELEVATION	STATION	OFFSET	ELEVATION	STATION	OFFSET	ELEVATION
666+50.0	28.04	516.12	-	-	-	-	-	-
667+00.0	25.62	516.65	-	-	-	-	-	-
667+50.0	22.82	517.18	-	-	-	-	-	-
668+00.0	19.39	517.71	-	-	-	-	-	-
668+50.0	15.33	518.23	-	-	-	-	-	-
668+80.0	12.59	518.49	668+80.8	20.56	518.65	668+81.5	28.52	518.81
668+99.2	10.72	518.71	669+00.0	18.68	518.87	669+00.8	26.64	519.03
669+49.1	5.41	519.27	669+50.0	13.36	519.43	669+50.9	21.31	519.59
669+82.2	1.55	519.65	669+83.1	9.49	519.81	669+84.1	17.43	519.97
669+99.0	-0.53	519.88	670+00.0	7.41	520.00	670+01.0	15.35	520.12
670+48.9	-7.11	520.56	670+50.0	0.81	520.57	670+51.1	8.74	520.57
670+99.0	-13.77	521.24	671+00.0	-5.84	521.13	671+01.0	2.10	521.02
671+20.2	-16.40	521.53	671+21.1	-8.45	521.37	671+22.1	-0.51	521.21
671+49.1	-19.79	521.86	671+50.0	-11.84	521.70	671+50.9	-3.90	521.54
671+99.2	-25.18	522.42	672+00.0	-17.22	522.26	672+00.8	-9.26	522.10
672+22.8	-27.49	522.69	672+23.5	-19.52	522.53	672+24.3	-11.56	522.37
-	-	-	-	-	-	672+50.0	-13.92	522.78
-	-	-	-	-	-	673+00.0	-18.04	523.47
-	-	-	-	-	-	673+50.0	-21.52	524.12
-	-	-	-	-	-	674+00.0	-24.37	524.76
-	-	-	-	-	-	674+50.0	-26.79	525.36

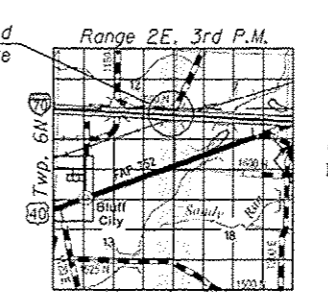
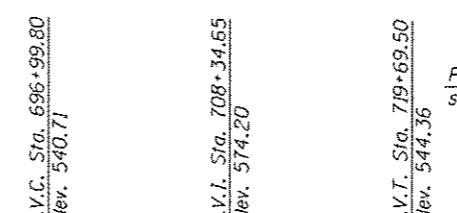
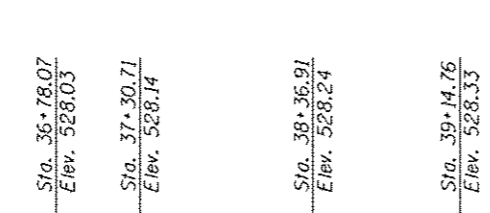
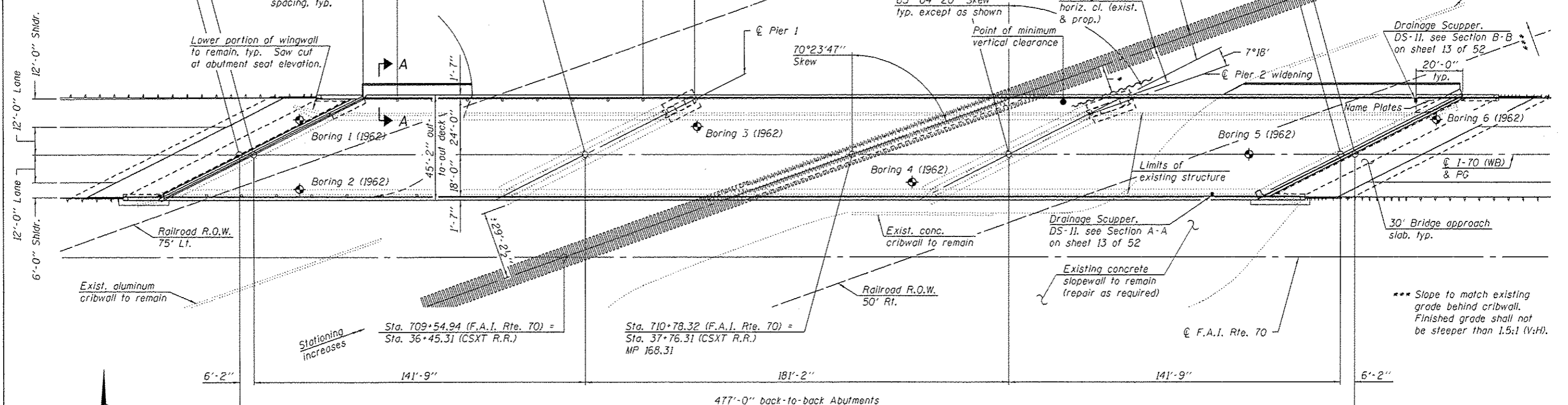
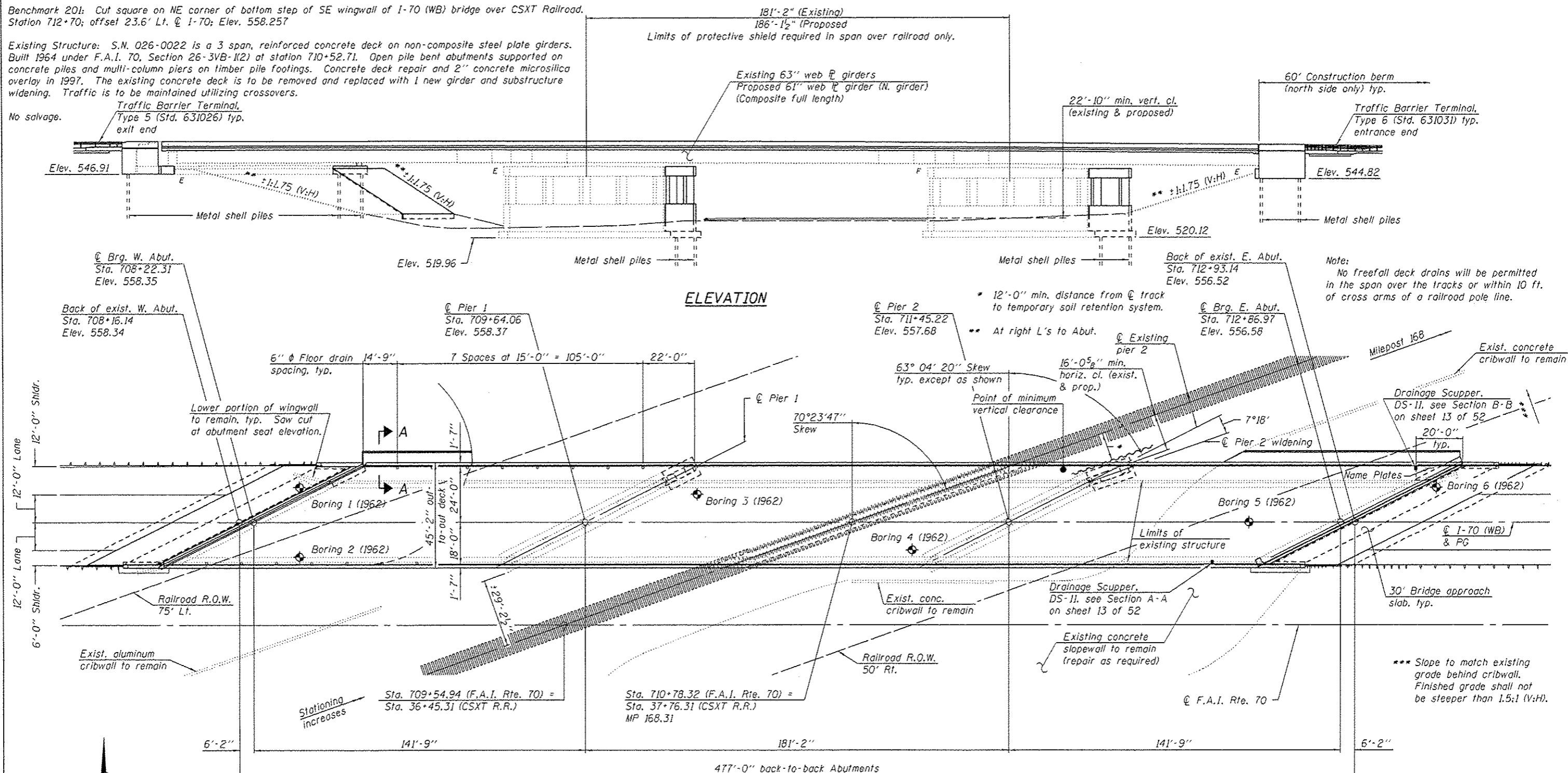
EAST CROSSOVER EARTHWORK SCHEDULE

LOCATION	EARTH	EARTH EXC	TOPSOIL	AGGREGATE	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	EXCAVATION	ADJ. FOR	EXCAVATION	EMBANKMENT	
	(cut)	SHRINKAGE	(cut)	(fill)	
	CU YD	CU YD	CU YD	CU YD	CU YD
665+02 TO 665+50	6.5	4.9	6.5	14.3	4.9
665+50 TO 666+00	6.7	5.0	7.1	15.3	5.0
666+00 TO 666+50	6.2	4.6	8.3	16.8	4.6
666+50 TO 667+00	5.9	4.5	12.4	25.1	4.5
667+00 TO 667+50	6.1	4.6	18.4	40.4	4.6
667+50 TO 668+00	6.2	4.7	23.9	59.1	4.7
668+00 TO 668+50	6.4	4.8	27.9	79.1	4.8
668+50 TO 669+00	3.2	2.4	30.5	102.9	2.4
669+00 TO 669+50	0.0	0.0	33.5	133.5	0.0
669+50 TO 670+00	0.0	0.0	33.6	162.4	0.0
670+00 TO 670+50	0.0	0.0	32.4	178.8	0.0
670+50 TO 671+00	0.0	0.0	32.5	176.7	0.0
671+00 TO 671+50	0.0	0.0	32.1	159.7	0.0
671+50 TO 672+00	0.0	0.0	31.8	134.0	0.0
672+00 TO 672+50	2.1	1.6	22.7	83.9	1.6
672+50 TO 673+00	5.3	4.0	28.1	101.0	4.0
673+00 TO 673+50	5.1	3.9	26.1	84.8	3.9
673+50 TO 674+00	5.2	3.9	23.6	61.8	3.9
674+00 TO 674+50	5.5	4.1	18.7	39.4	4.1
674+50 TO 675+00	6.6	4.9	11.8	22.3	4.9
675+00 TO 675+50	6.9	5.2	8.5	16.8	5.2
675+50 TO 676+00	6.2	4.7	8.6	17.0	4.7
676+00 TO 676+02	0.2	0.2	0.3	0.7	0.2
<b>TOTALS:</b>	<b>90.4</b>	<b>67.8</b>	<b>479.1</b>	<b>1726.0</b>	<b>67.8</b>

Benchmark 201: Cut square on NE corner of bottom step of SE wingwall of I-70 (WB) bridge over CSXT Railroad.  
 Station 712+70; offset 23.6' Lt. @ I-70; Elev. 558.257

Existing Structure: S.N. 026-0022 is a 3 span, reinforced concrete deck on non-composite steel plate girders. Built 1964 under F.A.I. 70, Section 26-3VB-1(2) at station 710+52.71. Open pile bent abutments supported on concrete piles and multi-column piers on timber pile footings. Concrete deck repair and 2" concrete microsilica overlay in 1997. The existing concrete deck is to be removed and replaced with 1 new girder and substructure widening. Traffic is to be maintained utilizing crossovers.

Traffic Barrier Terminal, Type 5 (Std. 631026) typ. exit end  
 No salvage.



**GENERAL PLAN & ELEVATION**  
**I-70 (WB) OVER CSXT RAILROAD**  
**F.A.I. RTE. 70 - SEC. (26-3VB)BR-1**  
**FAYETTE COUNTY**  
**STATION 709+54.94**  
**STRUCTURE NO. 026-0022**

DESIGNED: [Signature]  
 CHECKED: [Signature]  
 DRAWN: R. Laughlin  
 CHECKED: JON NRBLGRA

EXAMINED: [Signature]  
 PASSED: [Signature]  
 ENGINEER OF BRIDGES AND STRUCTURES

EXPIRES 11-30-2018

DATE: 5/15/2017  
 REVISED: [Blank]  
 REVISED: [Blank]

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SHEET NO. 1 OF 52 SHEETS

F.A.I. RTE. TO	SECTION (26-3VB)BR-1	COUNTY FAYETTE	TOTAL SHEETS 103	SHEET NO. 18
			CONTRACT NO. 74518	
ILLINOIS FED. AID PROJECT				

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**GENERAL NOTES**

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts. Bolts  $\frac{7}{8}$  in.  $\phi$ , holes  $\frac{15}{16}$  in.  $\phi$ , unless otherwise noted.

Calculated weight of Structural Steel = 198,720 (M270 Gr 50).

Calculated weight of Structural Steel = 22,190 (M270 Gr 36).

No field welding is permitted except as specified in the contract documents.

Reinforcement bars designated (E) shall be epoxy coated.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that cannot be removed by grinding  $\frac{1}{4}$  inch deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.

If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of  $\frac{1}{8}$  inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

Concrete Sealer shall be applied to the new abutment seat areas and front faces of entire abutment backwalls and hatched blocks.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

The Organic Zinc Rich Primer / Epoxy / Urethane Paint System shall be used for painting of new structural steel except where otherwise noted. The entire system shall be shop applied, with the exception of the exterior surface and the bottom of the bottom flange of fascia beams, masked off connection surfaces, field installed fasteners and damaged areas shall be touched up in the field. The color of the final finish coat for all new structural steel surfaces shall be Gray, Munsell No. 5B 7/1.

Existing structural steel shall only be cleaned and painted as required by the Special Provision for "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".

The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.

The concrete for bridge decks finished according to Article 503.16(a) of the Standard Specifications shall be placed and compacted parallel to the skew in uniform increments along centerline of bridge. The machine used for finishing shall be set parallel to the skew for striking off and screeding the concrete.

**INDEX OF SHEETS**

- 1 - General Plan & Elevation
- 2-3 - General Data, General Notes & Bill of Material
- 4-6 - Top of Slab Elevations
- 7 - Top of West Approach Slab Elevations
- 8 - Top of East Approach Slab Elevations
- 9 - Superstructure (Cross-Section and Deck Pouring Sequence)
- 10-11 - Superstructure (Plan)
- 12-13 - Superstructure Details
- 14 - Drainage Scupper Details
- 15-17 - Bridge Approach Slab Details
- 18 - Expansion Joint Details East Abutment, Preformed Joint Strip Seal
- 19-23 - Expansion Joint Details West Abutment, Finger Joint
- 24 -28 - Structural Steel Details
- 29 - Camber Diagram & Moment Table
- 30-32 - Bearing Details
- 33 - West Abutment Removal and Repair
- 34 - East Abutment Removal and Repair
- 35 - Pier 1 Removal and Repair
- 36 - Pier 2 Removal and Repair
- 37 - 3D Abutment Models
- 38 -41 - West Abutment Details
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- 46 - Pier 1 Extension
- 47 - Pier 2 Extension
- 48 - Metal Shell Pile Details
- 49 - Bar Splicers Details
- 50 - Concrete Parapet Slipforming Option
- 51-52 - Soil Boring Logs

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Protective Coat	Sq.Yd.	2,880	-	2,880
Concrete Removal	Cu.Yd.	-	92.9	92.9
Removal of Existing Concrete Deck	Each	1	-	1
Protective Shield	Sq.Yd.	725	-	725
Structure Excavation	Cu.Yd.	-	735	735
Floor Drains	Each	16	-	16
Concrete Structures	Cu.Yd.	-	329.5	329.5
Concrete Superstructure	Cu.Yd.	687.9	-	687.9
Bridge Deck Grooving	Sq.Yd.	2,331	-	2,331
Concrete Superstructure (Approach Slab)	Cu.Yd.	134.5	-	134.5
Furnishing and Erecting Structural Steel	L. Sum	1	-	1
Stud Shear Connectors	Each	5,480	-	5,480
Reinforcement Bars, Epoxy Coated	Pound	229,380	29,990	259,370
Bar Splicers	Each	-	186	186
Slope wall, 4 Inch	Sq.Yd.	-	288	288
Furnishing Metal Shell Piles 12" x 0.25"	Foot	-	834	834
Driving Piles	Foot	-	834	834
Test Pile Metal Shells	Each	-	2	2
Pile Shoes	Each	-	43	43
Name Plates	Each	1	-	1
Preformed Joint Strip Seal	Foot	95	-	95
Finger Plate Expansion Joint, 4"	Foot	93	-	93
Fabric Reinforced Elastomeric Trough	Foot	103	-	103
Elastomeric Bearing Assembly, Type I	Each	3	-	3
Elastomeric Bearing Assembly, Type III	Each	1	-	1
Anchor Bolts, 1"	Each	8	-	8
Anchor Bolts, 1/2"	Each	2	-	2
Temporary Soil Retention System	Sq.Ft.	-	188	188
Epoxy Crack Injection	Foot	-	93	93
Concrete Sealer	Sq.Ft.	-	1,653	1,653
Geocomposite Wall Drain	Sq.Yd.	-	209	209
Structural Steel Removal	Pound	10,610	-	10,610
Structural Repair of Concrete, Depth Equal or Less than 5 inches	Sq.Ft.	-	22	22
Drainage Scupper, DS-11	Each	2	-	2
Pipe Underdrain for Structures, 4"	Foot	-	250	250
Granular Backfill for Structures	Cu.Yd.	-	528	528

**DESIGN SPECIFICATIONS**

2002 AASHTO Standard Specifications  
1995 FHWA Seismic Retrofit Manual

**DESIGN STRESSES**

**FIELD UNITS (New construction)**

$f'_c$  = 3,500 psi  
 $f_y$  = 60,000 psi (Reinforcement)  
 $f_y$  = 50,000 (Structural Steel, M270 Grade 50)

**FIELD UNITS (Existing construction)**

$f'_c$  = 3,500 psi  
 $f_y$  = 40,000 psi (Reinforcement)  
 $f_y$  = 36,000 psi (Structural steel)

**LOADING HS-20-44 & ALTERNATE**

Allow 50#/sq. ft. for future wearing surface

**SEISMIC DATA**

Seismic Performance Category (SPC) = B (Emergency Route)  
Bedrock Acceleration Coefficient (A) = 0.075 g  
Site coefficient (S) = 1.5

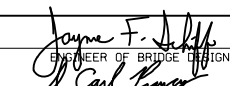
STATION 709+54.94  
RE-BUILT 20 BY  
STATE OF ILLINOIS  
F.A.I. RT. 70 SEC. (26-3VB1)BR-1  
LOADING HS-20-44 & ALT.  
STRUCTURE NO. 026-0022

**NAME PLATE**

See Std. 515001

Existing Name Plate shall be cleaned and relocated next to new Name Plate. Cost included with Name Plate.

SDATES \$TIMES

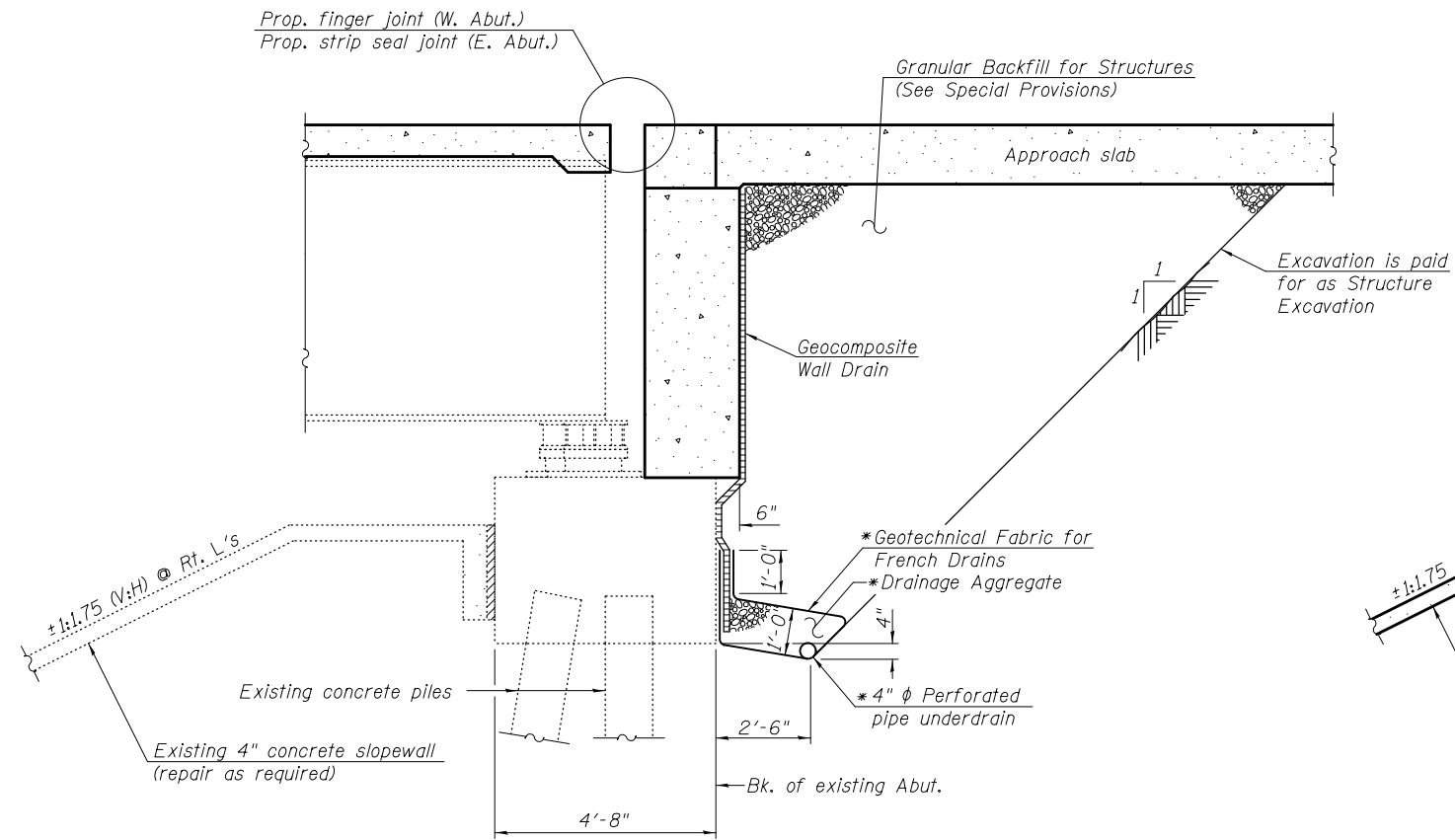
DESIGNED - Josue D. Ortiz-Varela	EXAMINED	DATE - MAY 15, 2017
CHECKED - Nicholas R. Barnett	PASSED	REVISOR
DRAWN - R. Laughlin		REVISOR
CHECKED - J.O.V. / N.R.B. / G.R.A.	 ENGINEER OF BRIDGES AND STRUCTURES	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

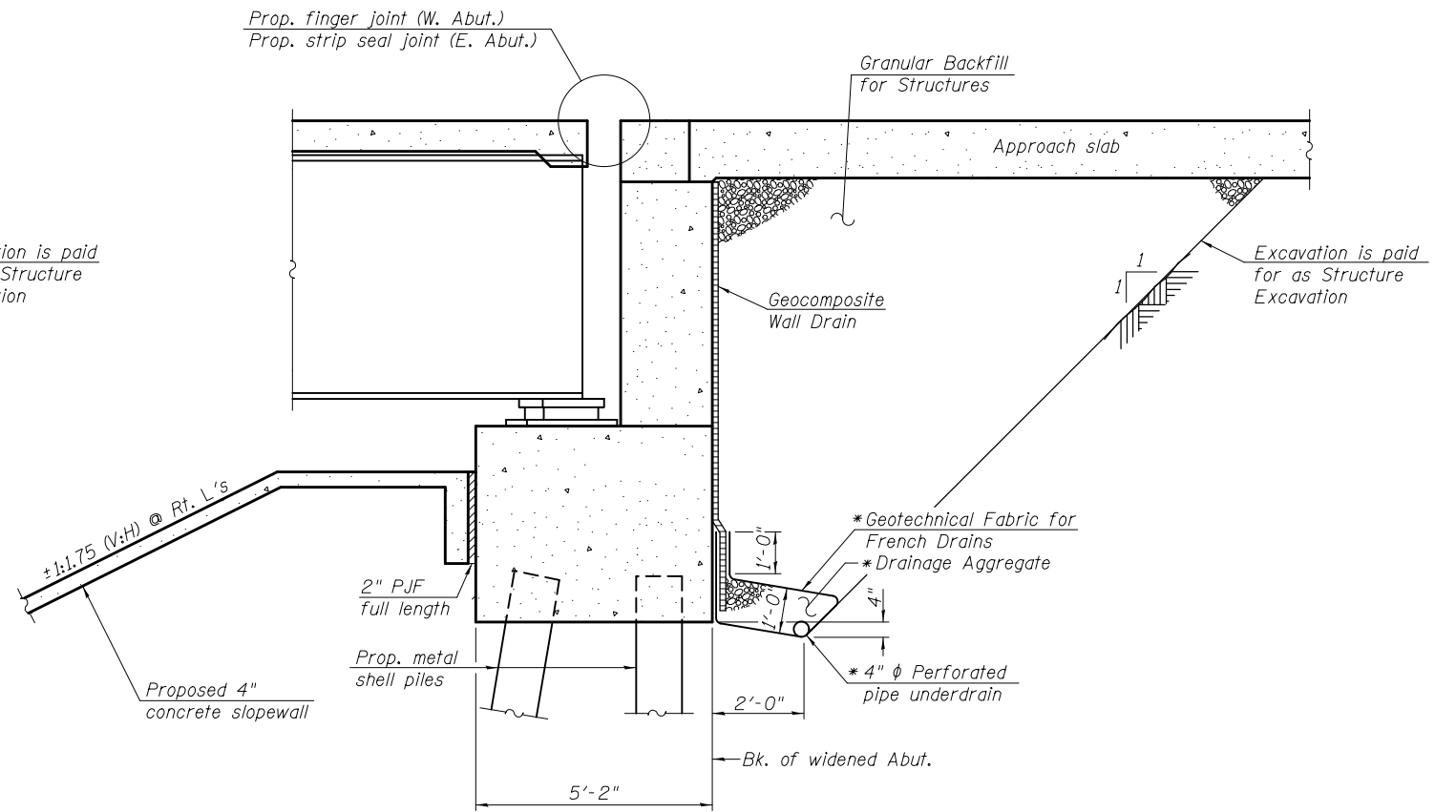
**GENERAL DATA  
STRUCTURE NO. 026-0022**

SHEET NO. 2 OF 52 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(26-3VB1)BR-1	FAYETTE	103	19
<b>CONTRACT NO. 74518</b>				
ILLINOIS FED. AID PROJECT				



**SECTION THRU EXISTING ABUTMENT**  
(Horiz. dim. @ Rt. L's)



**SECTION THRU ABUTMENT WIDENING**  
(Horiz. dim. @ Rt. L's)

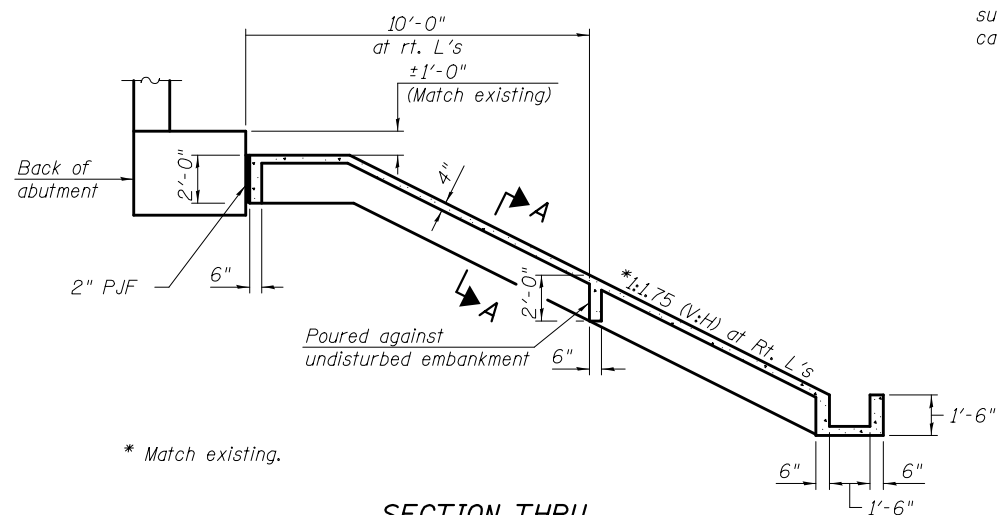
\*Included in the cost of Pipe Underdrains for Structures.  
(See Special Provisions)

**Note:**

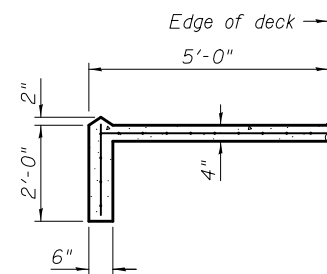
All drainage system components shall extend parallel to the abutment back wall until they intersect the wingwalls or 2'-0" from the end of the wingwalls when the wings are parallel to the abutment. The pipe shall extend under the wingwall, if necessary, until intersecting the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 60110).

Sloped wall shall be reinforced with welded wire fabric, 6" x 6" - W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.

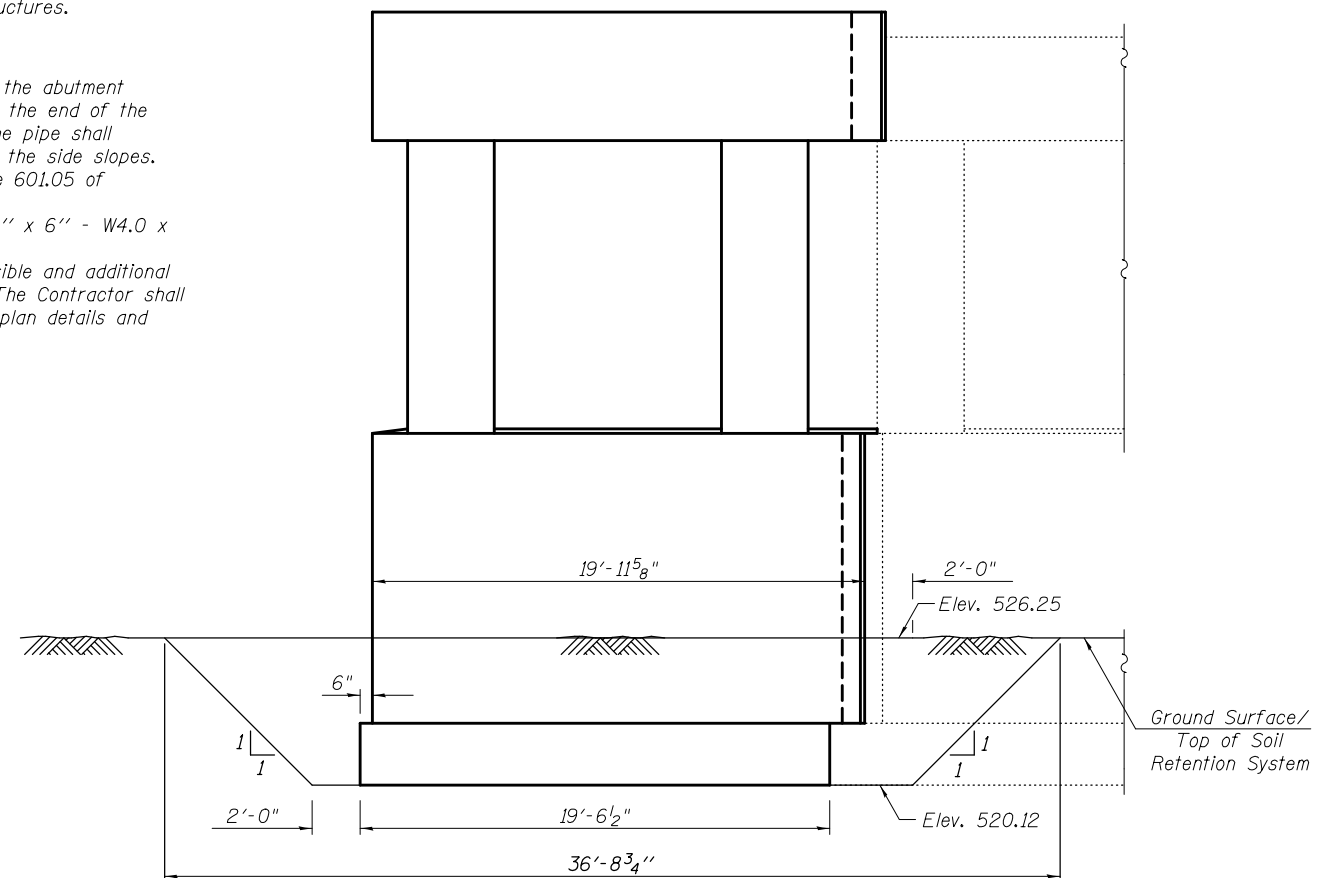
A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.



**SECTION THRU CONCRETE SLOPEWALL**



**SECTION A-A**



**TEMPORARY SOIL RETENTION SYSTEM AT PIER 2**

SDATES \$TIMES

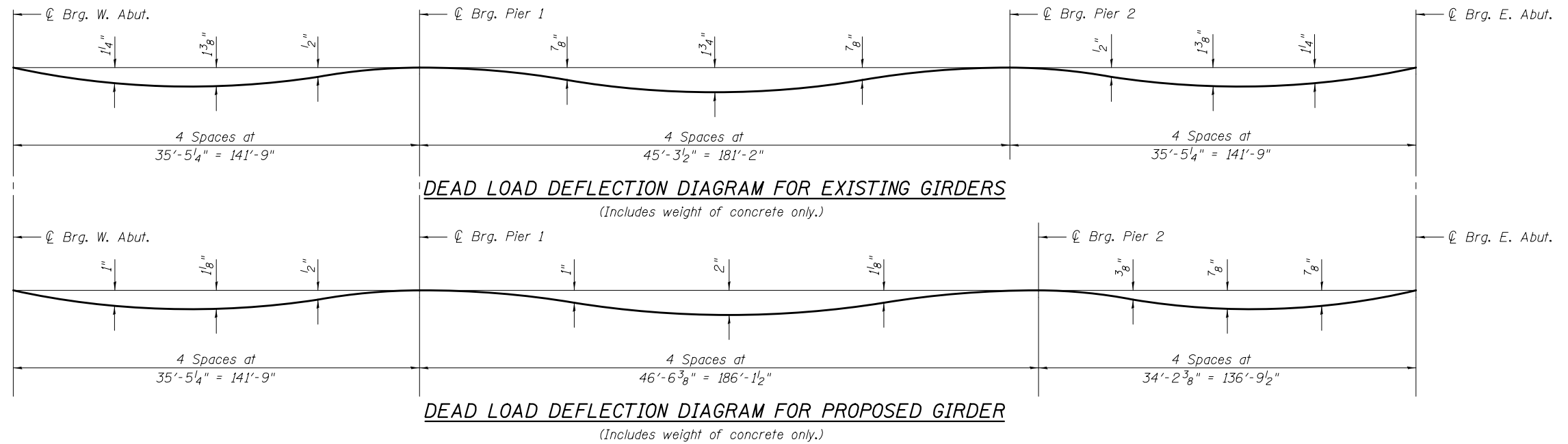
DESIGNED - Josue D. Ortiz-Varela	EXAMINED - <i>Joanne F. Joffe</i>	DATE - MAY 15, 2017
CHECKED - Nicholas R. Barnett	PASSED - <i>Carl Perry</i>	REVISOR
DRAWN - R. Laughlin	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR
CHECKED - J.O.V. / N.R.B. / G.R.A.		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

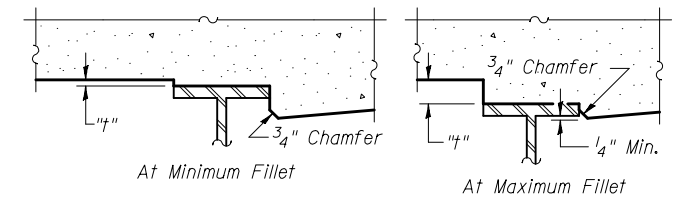
**GENERAL DATA  
STRUCTURE NO. 026-0022**

SHEET NO. 3 OF 52 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(26-3VB)BR-1	FAYETTE	103	20
CONTRACT NO. 74518				
ILLINOIS FED. AID PROJECT				

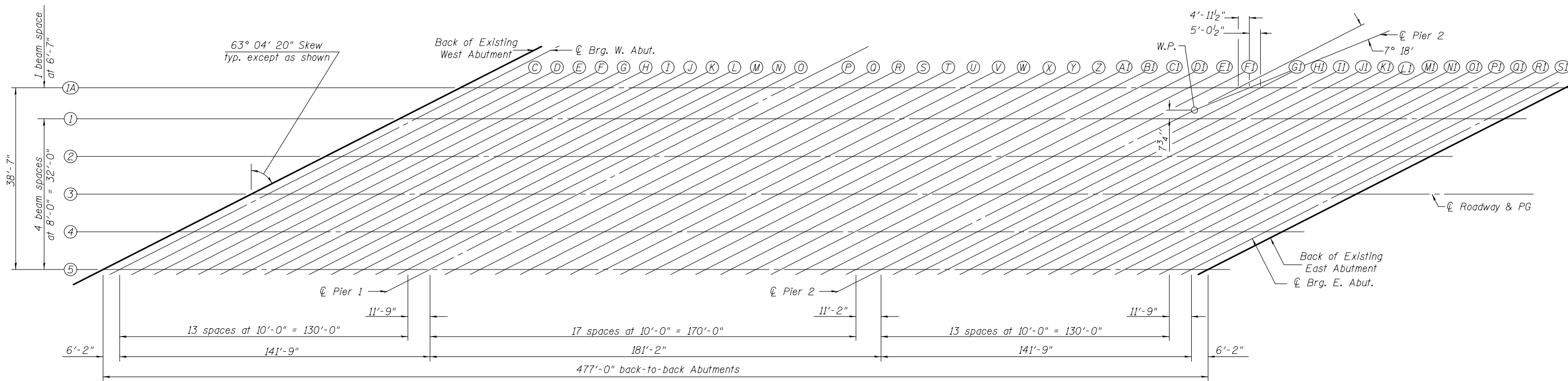


Note:  
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheets 5 and 6 of 52.



To determine "t": After all structural steel has 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 Deflection" shown on sheets 5 and 6 of 52, minus slab thickness, equals the fillet heights "t" above top flange of beams.

**FILLET HEIGHTS**



SDATES \$TIMES

DESIGNED - Josue D. Ortiz-Varela  
CHECKED - Nicholas R. Barnett  
DRAWN - R. Laughlin  
CHECKED - J.O.V. / N.R.B. / G.R.A.

EXAMINED  
PASSED  
ENGINEER OF BRIDGES AND STRUCTURES

DATE - MAY 15, 2017  
REVISED  
REVISED

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS  
STRUCTURE NO. 026-0022**

SHEET NO. 4 OF 52 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(26-3VB)BR-1	FAYETTE	103	21
CONTRACT NO. 74518				
ILLINOIS FED. AID PROJECT				



**BEAM 3, C ROADWAY & PG**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	708+16.14	0.00	558.34	558.34
C Brg. W. Abut.	708+22.31	0.00	558.35	558.35
C	708+32.31	0.00	558.37	558.39
D	708+42.31	0.00	558.38	558.44
E	708+52.31	0.00	558.39	558.48
F	708+62.31	0.00	558.40	558.51
G	708+72.31	0.00	558.41	558.52
H	708+82.31	0.00	558.42	558.53
I	708+92.31	0.00	558.42	558.53
J	709+02.31	0.00	558.42	558.52
K	709+12.31	0.00	558.42	558.50
L	709+22.31	0.00	558.41	558.47
M	709+32.31	0.00	558.41	558.45
N	709+42.31	0.00	558.40	558.43
O	709+52.31	0.00	558.39	558.40
C Brg. Pier 1	709+64.06	0.00	558.37	558.37
P	709+74.06	0.00	558.35	558.37
Q	709+84.06	0.00	558.33	558.37
R	709+94.06	0.00	558.31	558.36
S	710+04.06	0.00	558.29	558.35
T	710+14.06	0.00	558.26	558.34
U	710+24.06	0.00	558.23	558.33
V	710+34.06	0.00	558.20	558.31
W	710+44.06	0.00	558.16	558.29
X	710+54.06	0.00	558.13	558.27
Y	710+64.06	0.00	558.09	558.22
Z	710+74.06	0.00	558.05	558.16
A1	710+84.06	0.00	558.00	558.10
B1	710+94.06	0.00	557.96	558.04
C1	711+04.06	0.00	557.91	557.98
D1	711+14.06	0.00	557.86	557.91
E1	711+24.06	0.00	557.80	557.84
F1	711+34.06	0.00	557.75	557.76
C Brg. Pier 2	711+45.22	0.00	557.68	557.68
G1	711+55.22	0.00	557.62	557.63
H1	711+65.22	0.00	557.55	557.58
I1	711+75.22	0.00	557.49	557.53
J1	711+85.22	0.00	557.42	557.47
K1	711+95.22	0.00	557.35	557.42
L1	712+05.22	0.00	557.27	557.37
M1	712+15.22	0.00	557.20	557.31
N1	712+25.22	0.00	557.12	557.23
O1	712+35.22	0.00	557.04	557.14
P1	712+45.22	0.00	556.95	557.06
Q1	712+55.22	0.00	556.87	556.96
R1	712+65.22	0.00	556.78	556.84
S1	712+75.22	0.00	556.69	556.72
C Brg. E. Abut.	712+86.97	0.00	556.58	556.58
Bk. E. Abut.	712+93.14	0.00	556.52	556.52

**BEAM 4**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	708+00.39	8.00	558.17	558.17
C Brg. W. Abut.	708+06.56	8.00	558.19	558.19
C	708+16.56	8.00	558.21	558.24
D	708+26.56	8.00	558.23	558.29
E	708+36.56	8.00	558.25	558.33
F	708+46.56	8.00	558.26	558.36
G	708+56.56	8.00	558.27	558.38
H	708+66.56	8.00	558.28	558.39
I	708+76.56	8.00	558.29	558.40
J	708+86.56	8.00	558.29	558.39
K	708+96.56	8.00	558.30	558.37
L	709+06.56	8.00	558.30	558.35
M	709+16.56	8.00	558.29	558.33
N	709+26.56	8.00	558.29	558.31
O	709+36.56	8.00	558.28	558.29
C Brg. Pier 1	709+48.31	8.00	558.27	558.27
P	709+58.31	8.00	558.25	558.27
Q	709+68.31	8.00	558.24	558.27
R	709+78.31	8.00	558.22	558.27
S	709+88.31	8.00	558.20	558.27
T	709+98.31	8.00	558.18	558.26
U	710+08.31	8.00	558.15	558.25
V	710+18.31	8.00	558.12	558.24
W	710+28.31	8.00	558.09	558.22
X	710+38.31	8.00	558.06	558.20
Y	710+48.31	8.00	558.02	558.16
Z	710+58.31	8.00	557.99	558.10
A1	710+68.31	8.00	557.95	558.05
B1	710+78.31	8.00	557.90	557.99
C1	710+88.31	8.00	557.86	557.93
D1	710+98.31	8.00	557.81	557.86
E1	711+08.31	8.00	557.76	557.80
F1	711+18.31	8.00	557.71	557.73
C Brg. Pier 2	711+29.47	8.00	557.65	557.65
G1	711+39.47	8.00	557.59	557.60
H1	711+49.47	8.00	557.53	557.55
I1	711+59.47	8.00	557.47	557.50
J1	711+69.47	8.00	557.40	557.46
K1	711+79.47	8.00	557.33	557.41
L1	711+89.47	8.00	557.26	557.36
M1	711+99.47	8.00	557.19	557.30
N1	712+09.47	8.00	557.12	557.23
O1	712+19.47	8.00	557.04	557.15
P1	712+29.47	8.00	556.96	557.06
Q1	712+39.47	8.00	556.88	556.97
R1	712+49.47	8.00	556.79	556.85
S1	712+59.47	8.00	556.71	556.74
C Brg. E. Abut.	712+71.22	8.00	556.60	556.60
Bk. E. Abut.	712+77.39	8.00	556.54	556.54

**BEAM 5**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	707+84.64	16.00	557.99	557.99
C Brg. W. Abut.	707+90.81	16.00	558.00	558.00
C	708+00.81	16.00	558.03	558.06
D	708+10.81	16.00	558.05	558.11
E	708+20.81	16.00	558.07	558.16
F	708+30.81	16.00	558.09	558.19
G	708+40.81	16.00	558.11	558.21
H	708+50.81	16.00	558.12	558.23
I	708+60.81	16.00	558.13	558.24
J	708+70.81	16.00	558.14	558.24
K	708+80.81	16.00	558.15	558.22
L	708+90.81	16.00	558.15	558.21
M	709+00.81	16.00	558.15	558.19
N	709+10.81	16.00	558.15	558.18
O	709+20.81	16.00	558.14	558.16
C Brg. Pier 1	709+32.56	16.00	558.14	558.14
P	709+42.56	16.00	558.13	558.14
Q	709+52.56	16.00	558.12	558.15
R	709+62.56	16.00	558.10	558.15
S	709+72.56	16.00	558.09	558.15
T	709+82.56	16.00	558.07	558.15
U	709+92.56	16.00	558.04	558.14
V	710+02.56	16.00	558.02	558.13
W	710+12.56	16.00	557.99	558.12
X	710+22.56	16.00	557.96	558.11
Y	710+32.56	16.00	557.93	558.06
Z	710+42.56	16.00	557.90	558.02
A1	710+52.56	16.00	557.86	557.96
B1	710+62.56	16.00	557.82	557.91
C1	710+72.56	16.00	557.78	557.85
D1	710+82.56	16.00	557.74	557.79
E1	710+92.56	16.00	557.69	557.73
F1	711+02.56	16.00	557.64	557.66
C Brg. Pier 2	711+13.72	16.00	557.59	557.59
G1	711+23.72	16.00	557.53	557.55
H1	711+33.72	16.00	557.48	557.50
I1	711+43.72	16.00	557.42	557.46
J1	711+53.72	16.00	557.36	557.41
K1	711+63.72	16.00	557.29	557.37
L1	711+73.72	16.00	557.23	557.32
M1	711+83.72	16.00	557.16	557.27
N1	711+93.72	16.00	557.09	557.20
O1	712+03.72	16.00	557.01	557.12
P1	712+13.72	16.00	556.94	557.04
Q1	712+23.72	16.00	556.86	556.95
R1	712+33.72	16.00	556.78	556.84
S1	712+43.72	16.00	556.70	556.73
C Brg. E. Abut.	712+55.47	16.00	556.59	556.59
Bk. E. Abut.	712+61.64	16.00	556.54	556.54

SDATES \$TIMES

**NORTH EDGE OF SHOULDER**

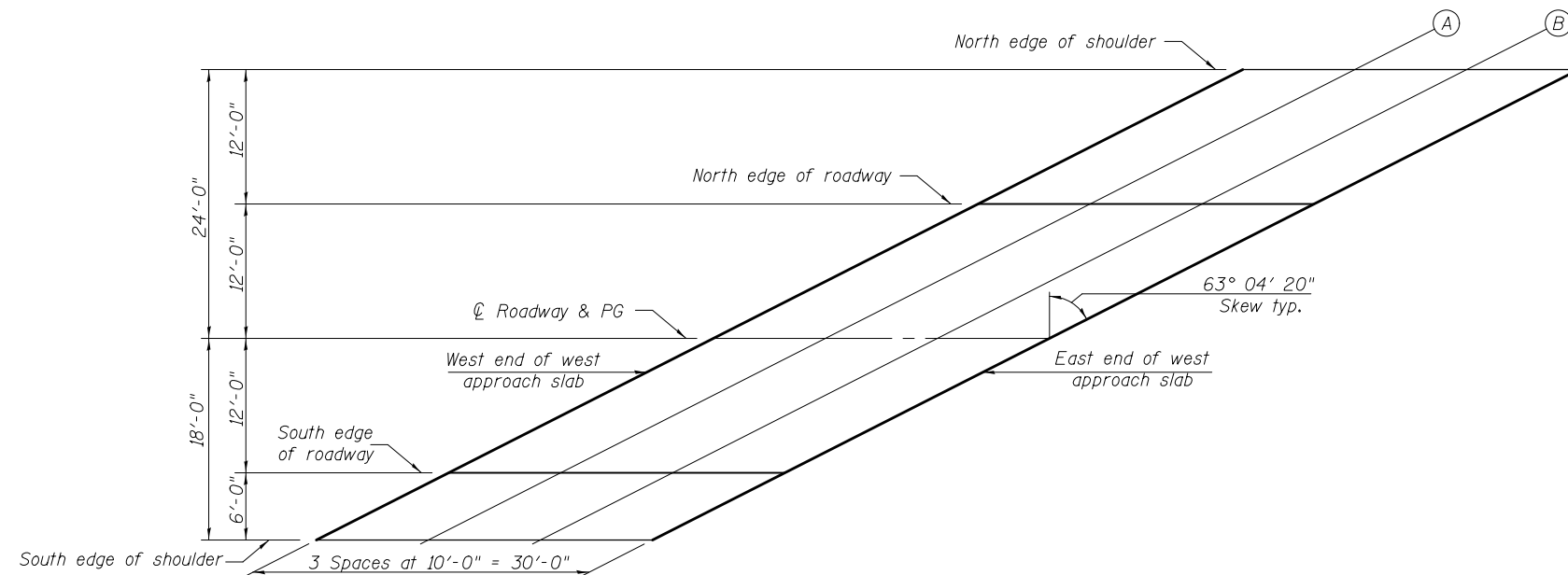
Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr.	708+33.39	-24.00	557.93
A	708+43.39	-24.00	557.94
B	708+53.39	-24.00	557.96
E. End West Appr.	708+63.39	-24.00	557.97

**NORTH EDGE OF ROADWAY**

Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr.	708+09.76	-12.00	558.13
A	708+19.76	-12.00	558.15
B	708+29.76	-12.00	558.17
E. End West Appr.	708+39.76	-12.00	558.19

**☉ ROADWAY & PG**

Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr.	707+86.14	0.00	558.26
A	707+96.14	0.00	558.29
B	708+06.14	0.00	558.31
E. End West Appr.	708+16.14	0.00	558.34



**SOUTH EDGE OF ROADWAY**

Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr.	707+62.52	12.00	558.00
A	707+72.52	12.00	558.03
B	707+82.52	12.00	558.06
E. End West Appr.	707+92.52	12.00	558.09

**SOUTH EDGE OF SHOULDER**

Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr.	707+50.70	18.00	557.84
A	707+60.70	18.00	557.87
B	707+70.70	18.00	557.90
E. End West Appr.	707+80.70	18.00	557.93

SDATES \$TIMES

DESIGNED - Josue D. Ortiz-Varela  
 CHECKED - Nicholas R. Barnett  
 DRAWN - R. Laughlin  
 CHECKED - J.O.V. / N.R.B. / G.R.A.

EXAMINED *Joanne F. J...*  
 PASSED *Carl...*  
 ENGINEER OF BRIDGES AND STRUCTURES

DATE - MAY 15, 2017  
 REVISED  
 REVISED

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TOP OF WEST APPROACH SLAB ELEVATIONS  
 STRUCTURE NO. 026-0022**  
 SHEET NO. 7 OF 52 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(26-3VB1)BR-1	FAYETTE	103	24
CONTRACT NO. 74518				
ILLINOIS FED. AID PROJECT				



**NORTH EDGE OF SHOULDER**

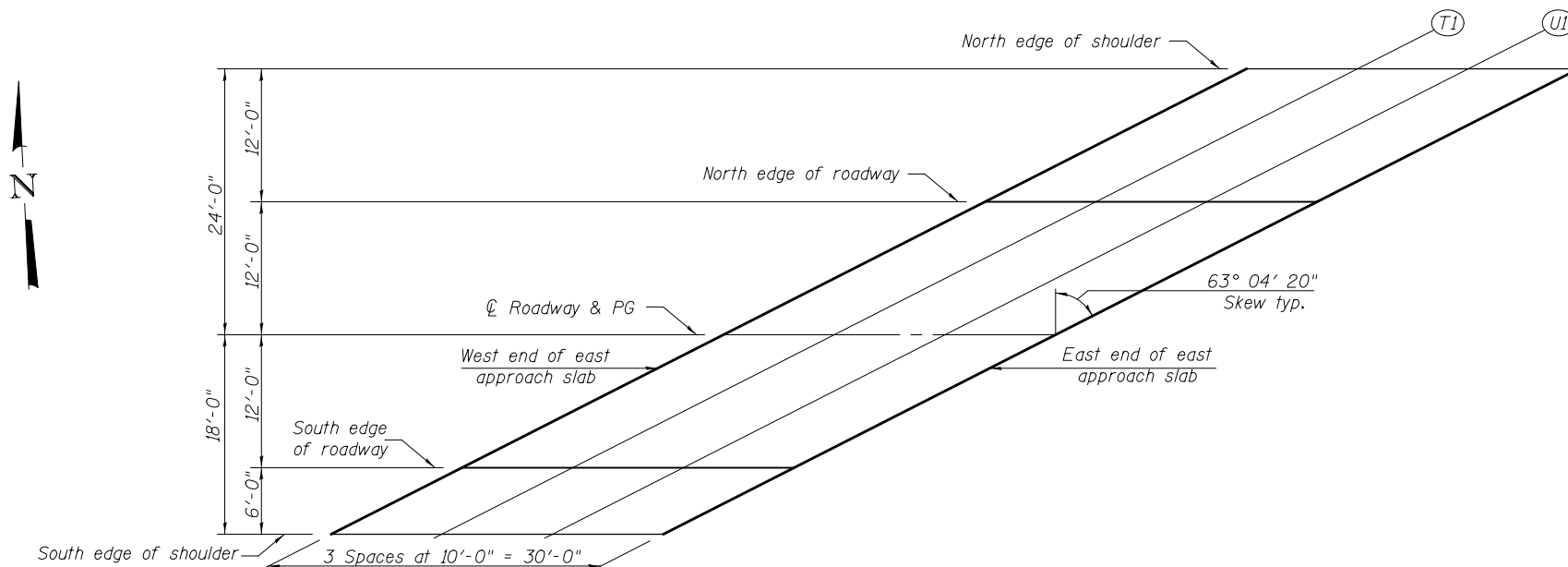
Location	Station	Offset	Theoretical Grade Elevations
W. End East Appr.	713+40.39	-24.00	555.60
T1	713+50.39	-24.00	555.49
U1	713+60.39	-24.00	555.38
E. End East Appr.	713+70.39	-24.00	555.26

**NORTH EDGE OF ROADWAY**

Location	Station	Offset	Theoretical Grade Elevations
W. End East Appr.	713+16.76	-12.00	556.10
T1	713+26.76	-12.00	555.99
U1	713+36.76	-12.00	555.89
E. End East Appr.	713+46.76	-12.00	555.78

**☉ ROADWAY & PG**

Location	Station	Offset	Theoretical Grade Elevations
W. End East Appr.	712+93.14	0.00	556.52
T1	713+03.14	0.00	556.42
U1	713+13.14	0.00	556.32
E. End East Appr.	713+23.14	0.00	556.22



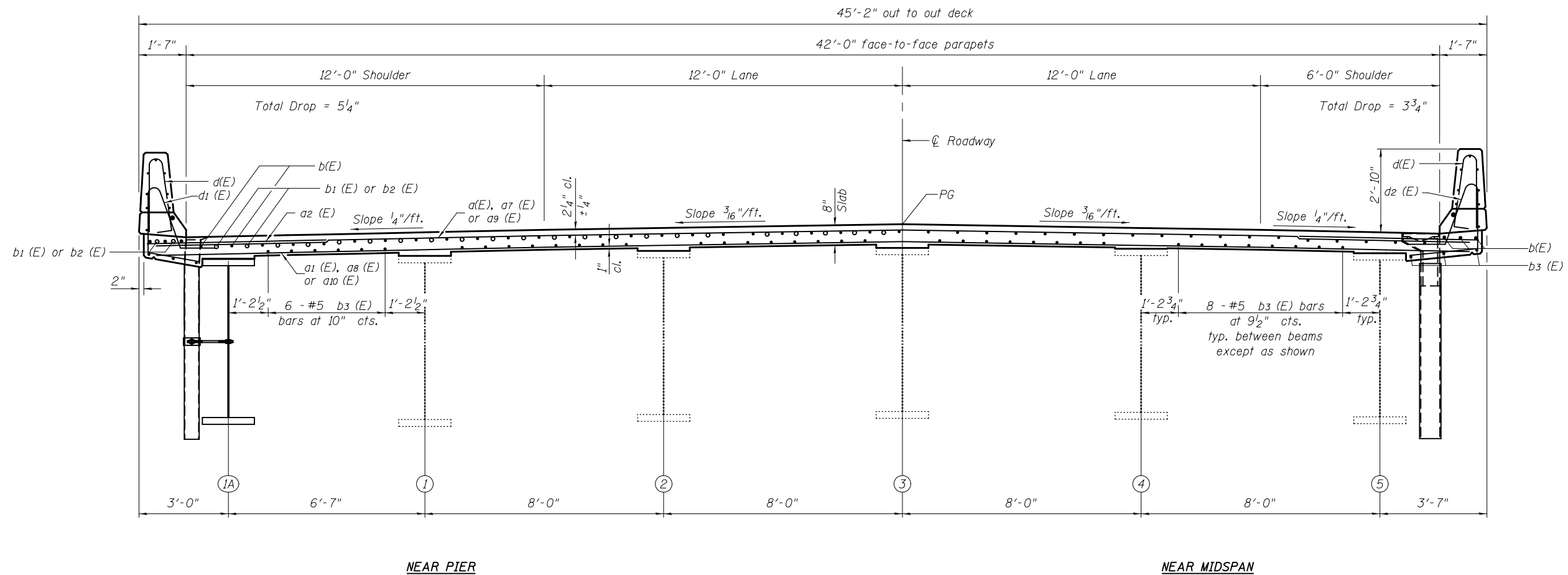
**SOUTH EDGE OF ROADWAY**

Location	Station	Offset	Theoretical Grade Elevations
W. End East Appr.	712+69.52	12.00	556.55
T1	712+79.52	12.00	556.46
U1	712+89.52	12.00	556.37
E. End East Appr.	712+99.52	12.00	556.27

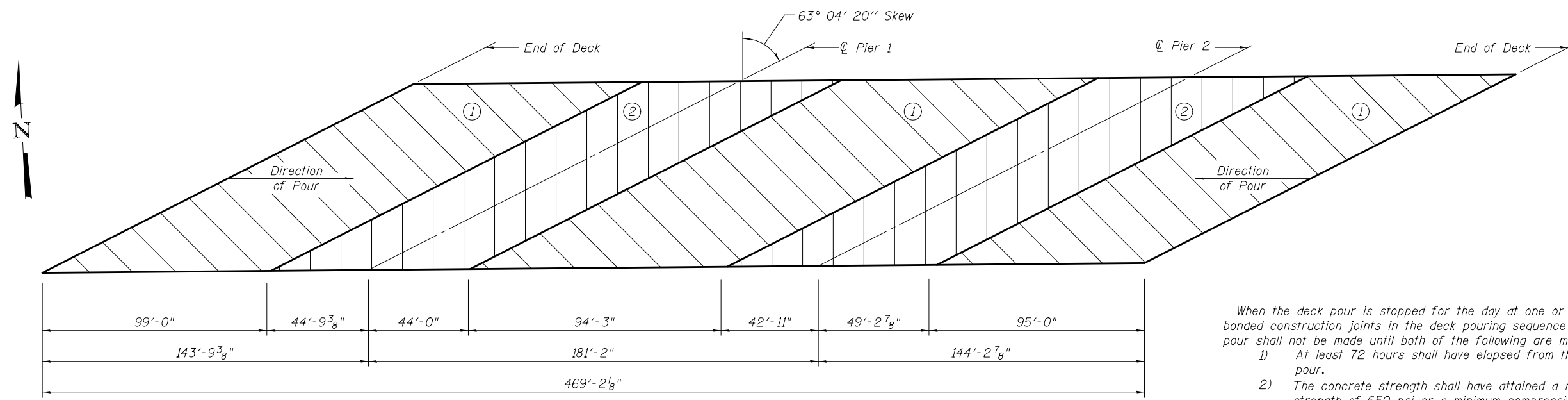
**SOUTH EDGE OF SHOULDER**

Location	Station	Offset	Theoretical Grade Elevations
W. End East Appr.	712+57.70	18.00	556.53
T1	712+67.70	18.00	556.44
U1	712+77.70	18.00	556.35
E. End East Appr.	712+87.70	18.00	556.26

SDATES \$TIMES



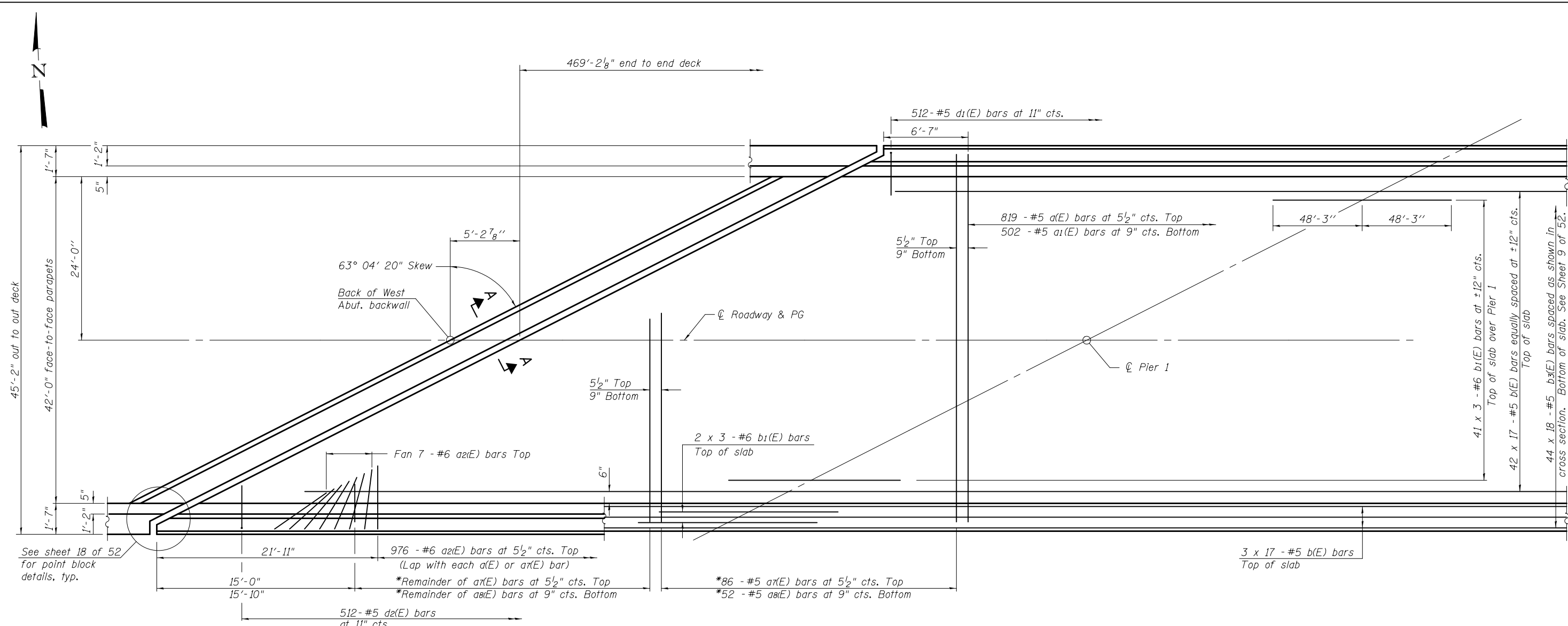
**CROSS SECTION**  
(Looking East)



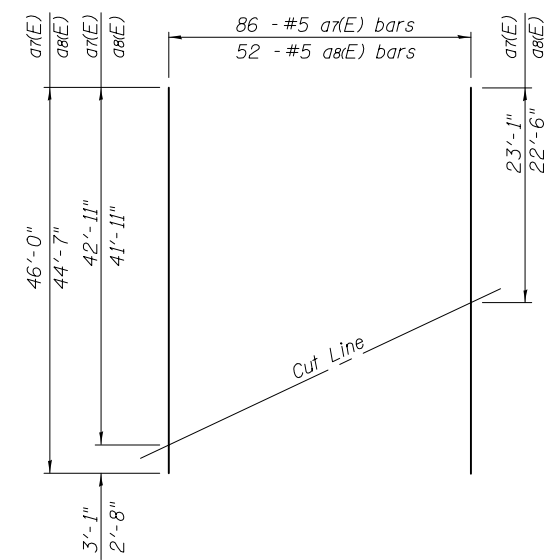
**DECK POURING SEQUENCE**

SDATES \$TIMES

DESIGNED - Josue D. Ortiz-Varela	EXAMINED - <i>Joanne F. Schuff</i> ENGINEER OF BRIDGE DESIGN	DATE - MAY 15, 2017	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUPERSTRUCTURE STRUCTURE NO. 026-0022</b>	F.A.I. RTE. - 70	SECTION - (26-3VB1)BR-1	COUNTY - FAYETTE	TOTAL SHEETS - 103	SHEET NO. - 26	
CHECKED - Nicholas R. Barnett	PASSED - <i>Carl Perry</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED			CONTRACT NO. 74518					
DRAWN - R. Laughlin		REVISED			ILLINOIS FED. AID PROJECT					
CHECKED - J.O.V. / N.R.B. / G.R.A.					SHEET NO. 9 OF 52 SHEETS					



**PARTIAL PLAN AT WEST ABUTMENT & PIER 1**



**FIELD CUTTING DIAGRAM**

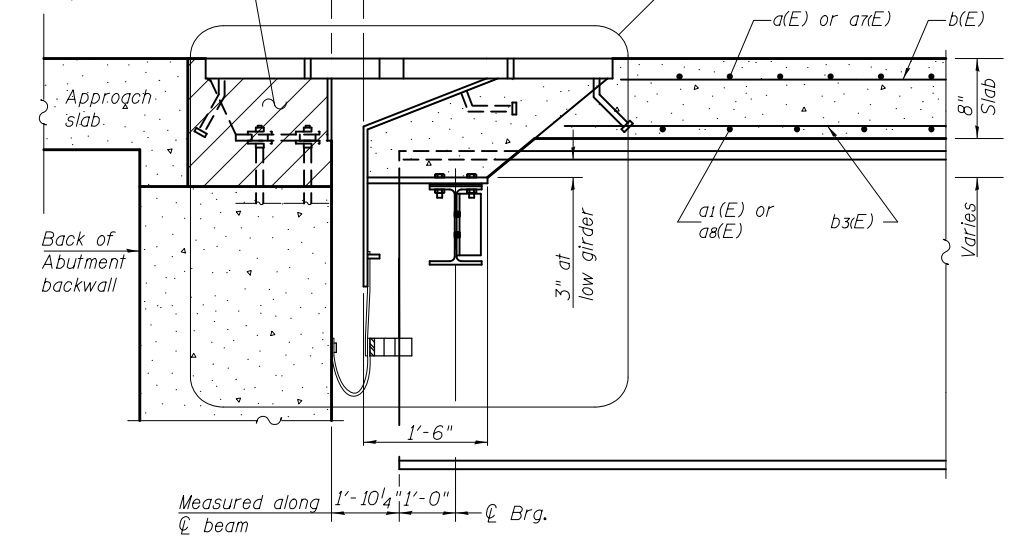
\*Order a1(E) & a2(E) bars full length.  
Cut to fit skew and use remainder of bars at the end of the deck.

**MINIMUM BAR LAP**

#5 bar = 3'-9"  
#6 bar = 3'-10"

Notes:  
See Sheet 13 of 52 for superstructure details and Bill of Material.  
Bars indicated thus 3 x 17-#5 etc. indicates 3 lines of bars with 17 lengths per line.  
See Sheet 12 of 52 for parapet reinforcement.

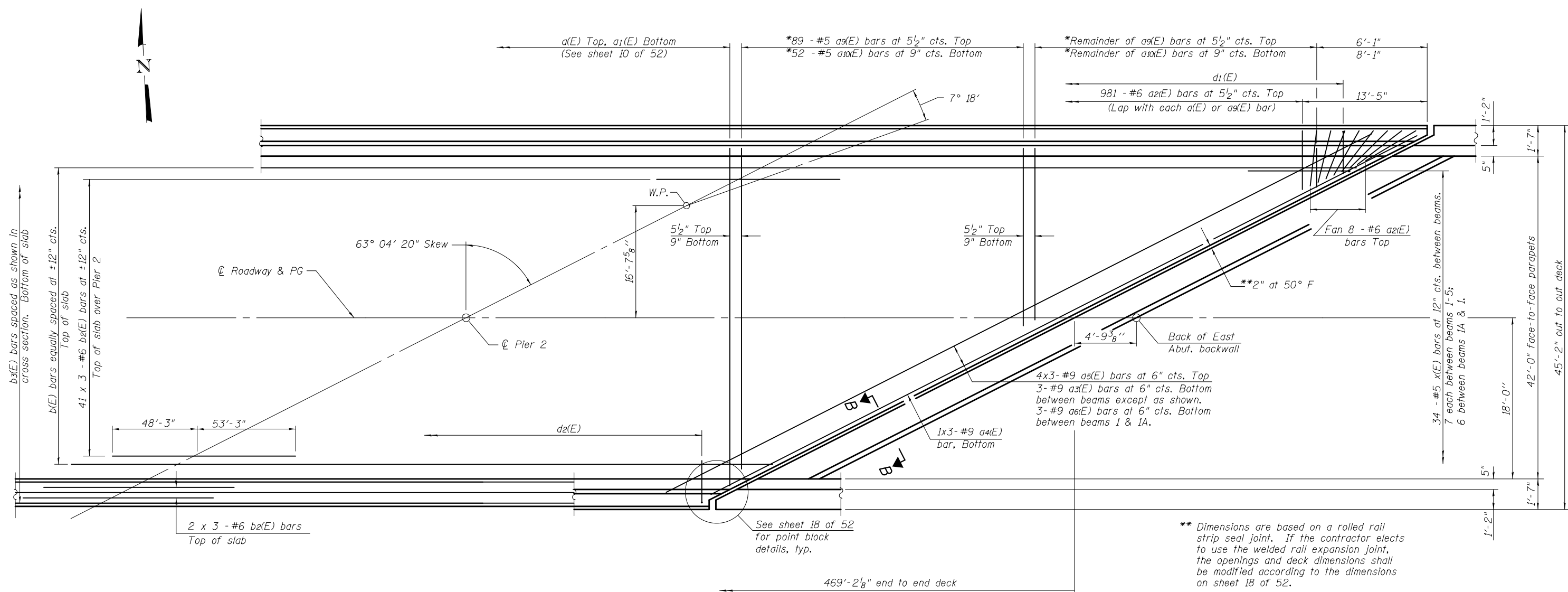
Hatched area to be poured after superstructure forms have been removed. Quantity of concrete included with Concrete Superstructure.



**SECTION A-A**

SDATES \$TIMES

DESIGNED - Josue D. Ortiz-Varela	EXAMINED - <i>Joyce F. J. [Signature]</i>	DATE - MAY 15, 2017	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUPERSTRUCTURE STRUCTURE NO. 026-0022</b>	F.A.I. RTE. 70	SECTION (26-3VB1)BR-1	COUNTY FAYETTE	TOTAL SHEETS 103	SHEET NO. 27	
CHECKED - Nicholas R. Barnett	PASSED - <i>Carl [Signature]</i>	REVISOR			CONTRACT NO. 74518					
DRAWN - R. Laughlin	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR			ILLINOIS FED. AID PROJECT					
CHECKED - J.O.V. / N.R.B. / G.R.A.					SHEET NO. 10 OF 52 SHEETS					



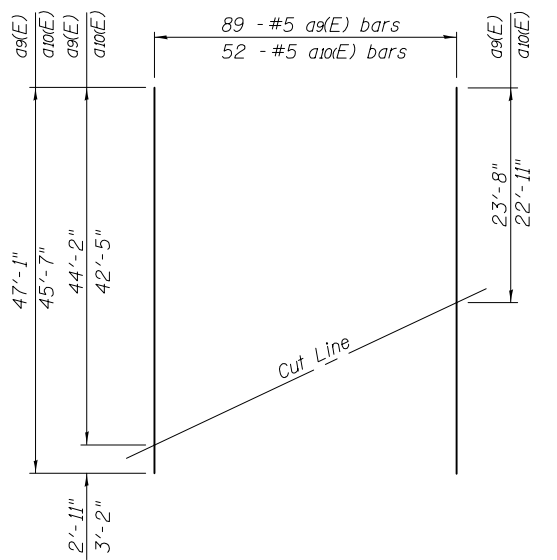
\*\* Dimensions are based on a rolled rail strip seal joint. If the contractor elects to use the welded rail expansion joint, the openings and deck dimensions shall be modified according to the dimensions on sheet 18 of 52.

**PARTIAL PLAN AT PIER 2 & EAST ABUTMENT**

**MINIMUM BAR LAP**

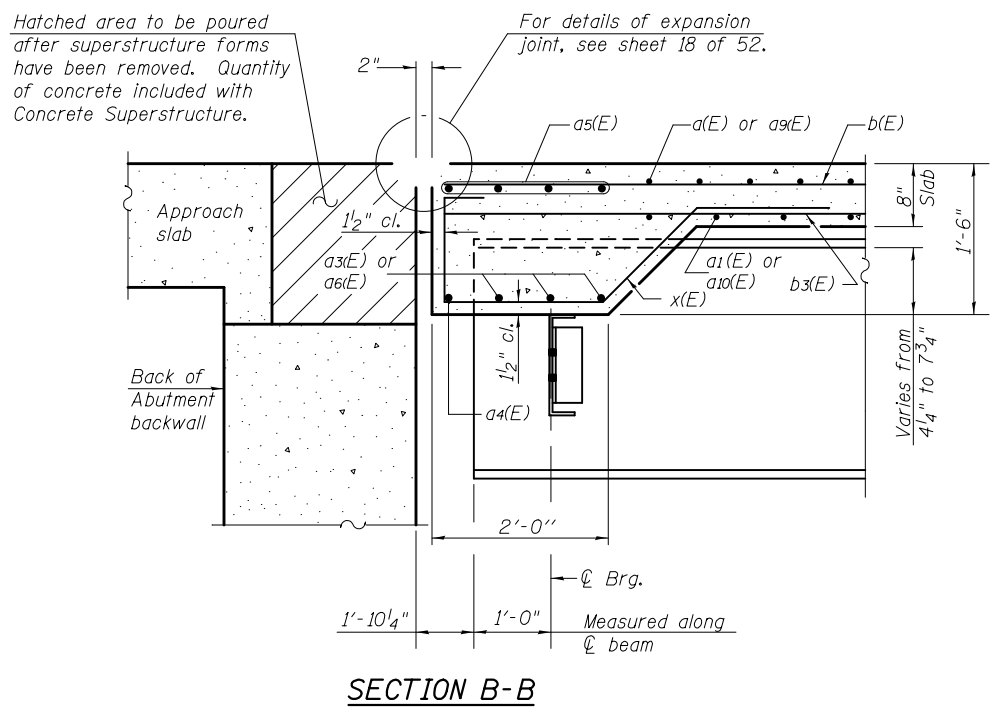
- #5 bar = 3'-9"
- #6 bar = 3'-10"
- #9 bar = 6'-3" (Top)
- #9 bar = 7'-9" (Bottom)

Notes:  
 See Sheet 13 of 52 for superstructure details and Bill of Material.  
 Bars indicated thus 2 x 3 - #6 etc. indicates 2 lines of bars with 3 lengths per line.  
 See Sheet 12 of 52 for parapet reinforcement.



**FIELD CUTTING DIAGRAM**

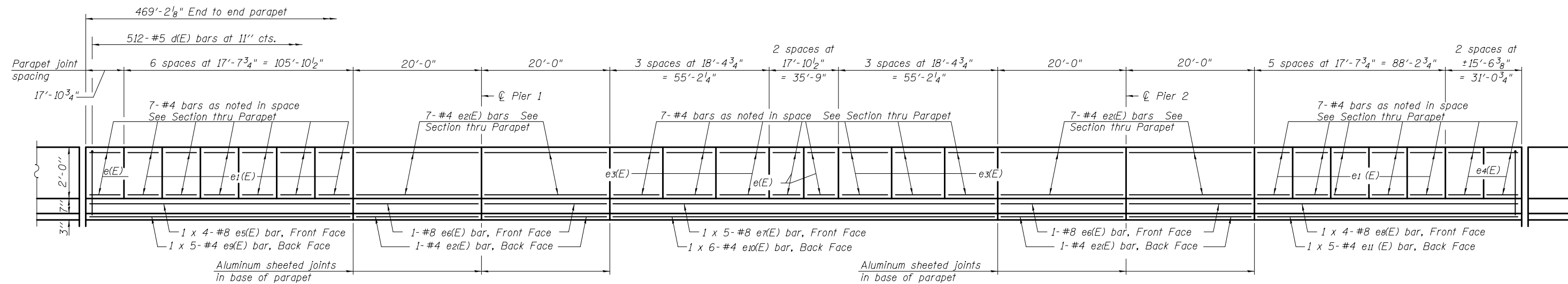
\*Order a9(E) & a10(E) bars full length. Cut to fit skew and use remainder of bars at the end of the deck.



**SECTION B-B**

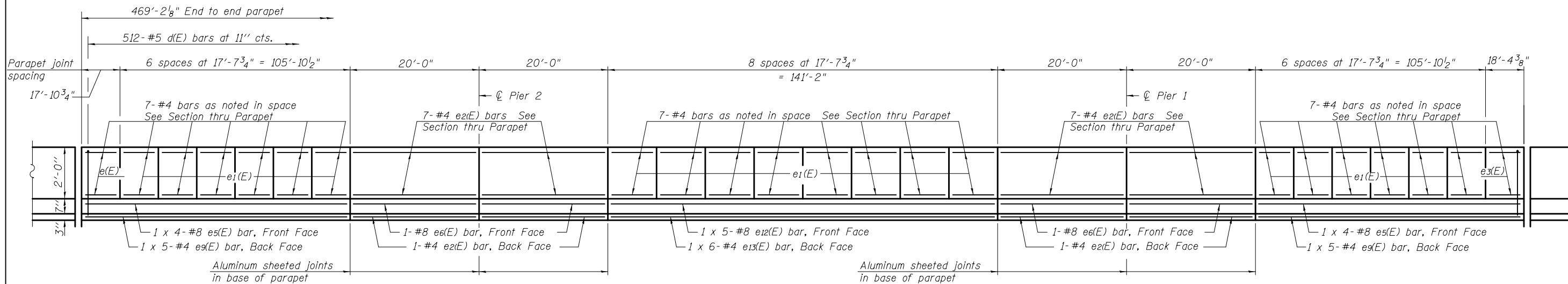
SDATES \$TIMES

DESIGNED - Josue D. Ortiz-Varela	EXAMINED -	DATE - MAY 15, 2017	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUPERSTRUCTURE STRUCTURE NO. 026-0022</b>	F.A.I. RTE. 70	SECTION (26-3VB1BR-1)	COUNTY FAYETTE	TOTAL SHEETS 103	SHEET NO. 28	
CHECKED - Nicholas R. Barnett	PASSED -	REVISED			CONTRACT NO. 74518					
DRAWN - R. Laughlin		REVISED			ILLINOIS FED. AID PROJECT					
CHECKED - J.O.V. / N.R.B. / G.R.A.	ENGINEER OF BRIDGES AND STRUCTURES				SHEET NO. 11 OF 52 SHEETS					



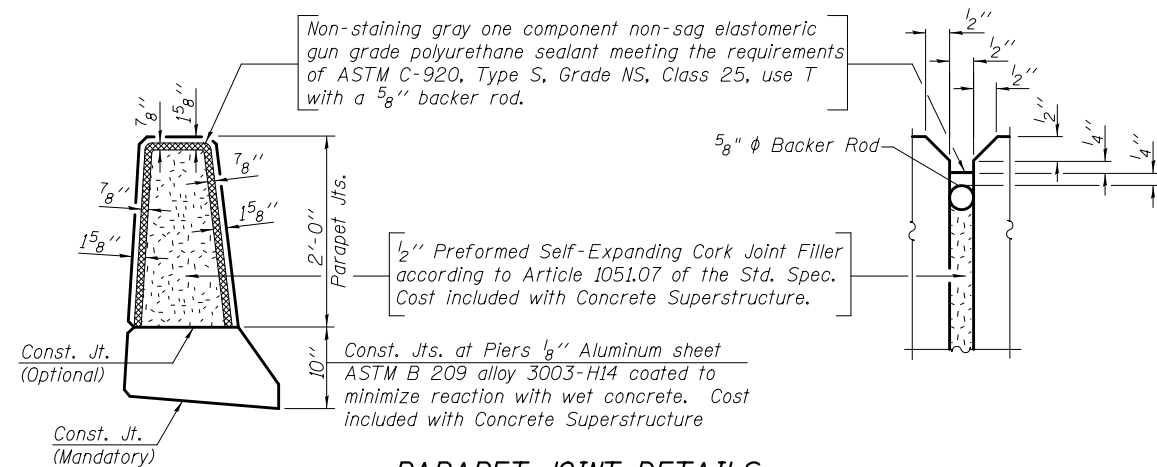
**INSIDE ELEVATION OF NORTH PARAPET**

Looking North



**INSIDE ELEVATION OF SOUTH PARAPET**

Looking South



**PARAPET JOINT DETAILS**

**MINIMUM BAR LAP**

(Parapet)  
 #4 bar = 2'-11"  
 #8 bar = 6'-4"

SDATES \$TIMES

DESIGNED - Josue D. Ortiz-Varela  
 CHECKED - Nicholas R. Barnett  
 DRAWN - R. Laughlin  
 CHECKED - J.O.V. / N.R.B. / G.R.A.

EXAMINED  
 PASSED  
 ENGINEER OF BRIDGE DESIGN  
 ENGINEER OF BRIDGES AND STRUCTURES

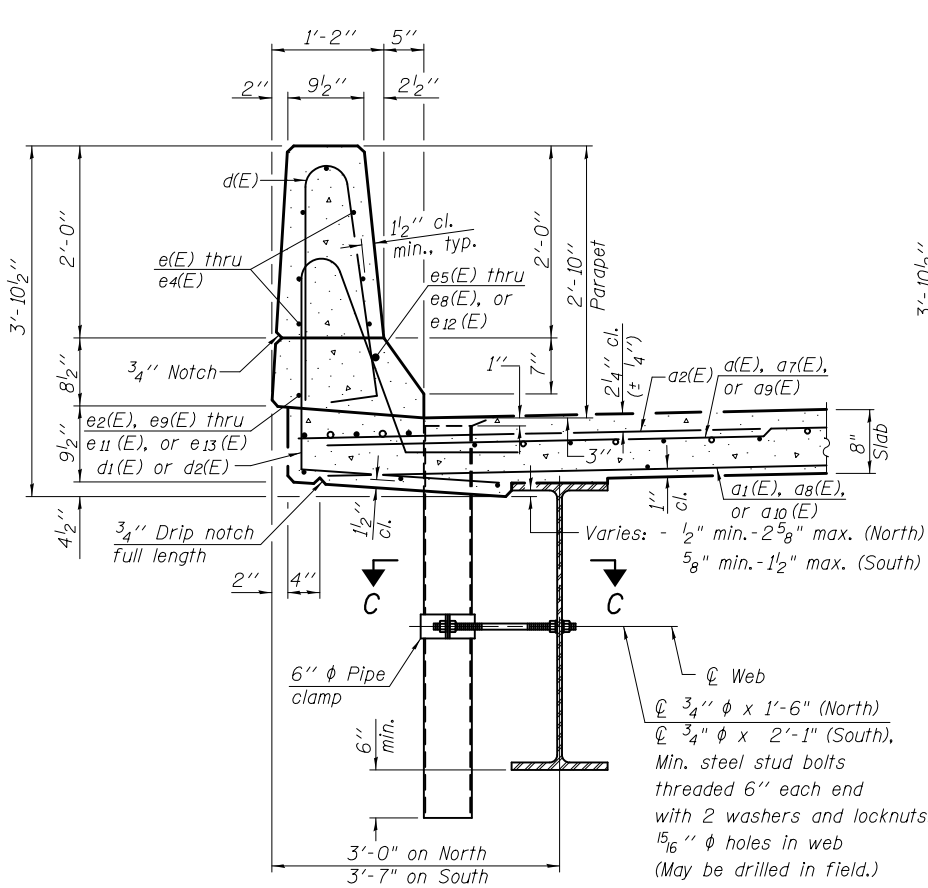
DATE - MAY 15, 2017  
 REVISED  
 REVISED

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

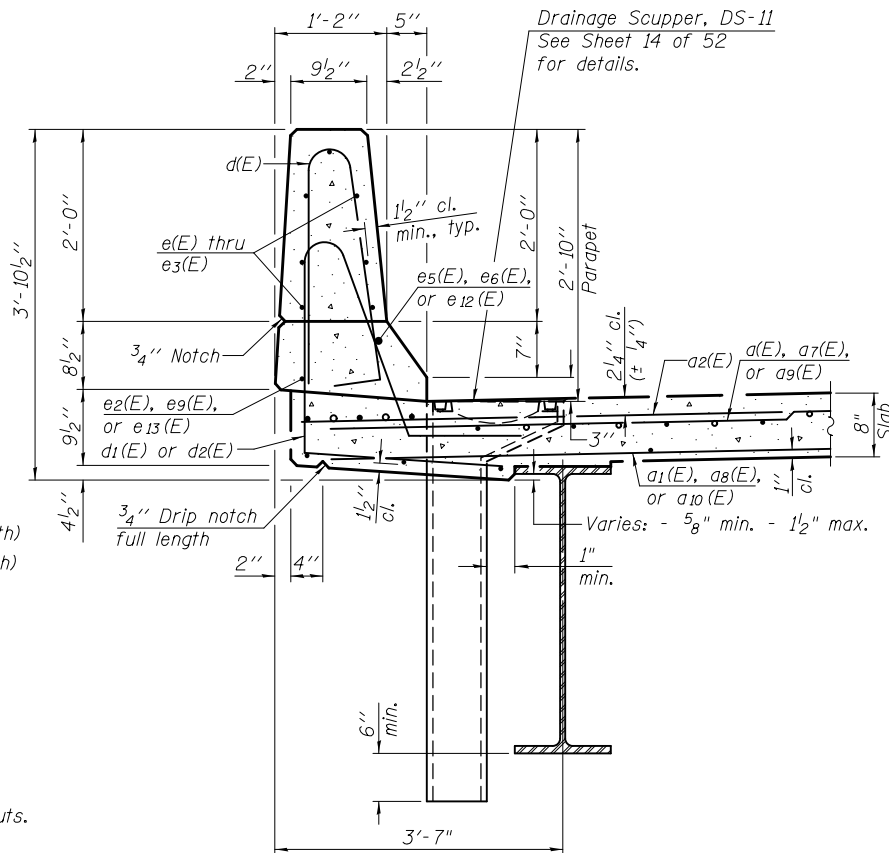
**SUPERSTRUCTURE DETAILS  
 STRUCTURE NO. 026-0022**

SHEET NO. 12 OF 52 SHEETS

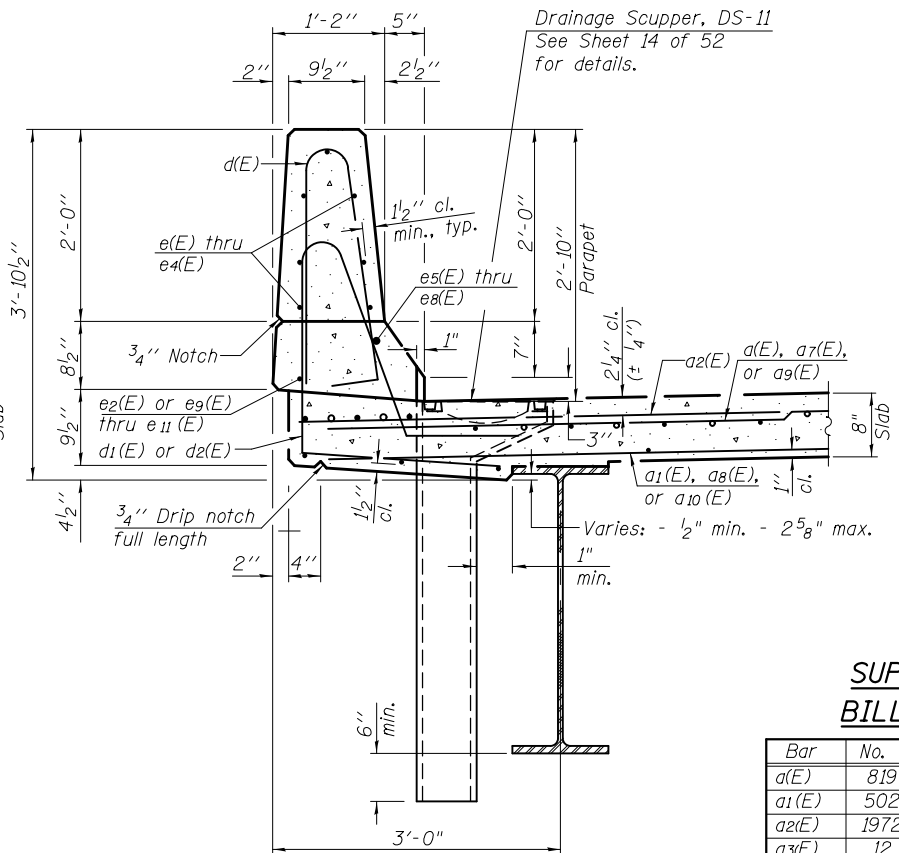
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(26-3VB1)BR-1	FAYETTE	103	29
CONTRACT NO. 74518				
ILLINOIS FED. AID PROJECT				



**SECTION THRU PARAPET  
SHOWING FLOOR DRAIN INSTALLATION**

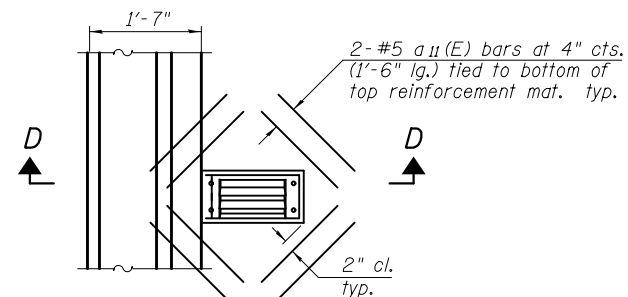


**SECTION D-D THRU PARAPET  
SHOWING SCUPPER INSTALLATION**

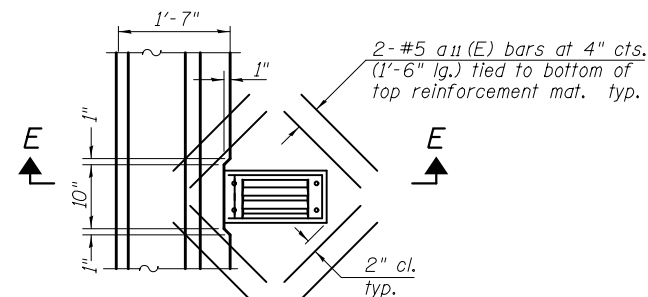


**SECTION E-E THRU PARAPET  
SHOWING SCUPPER INSTALLATION**

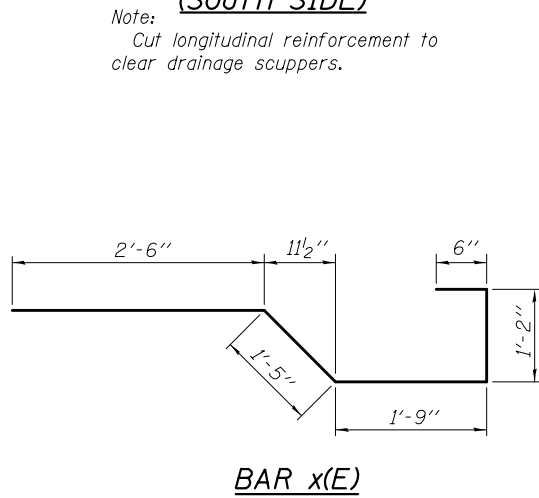
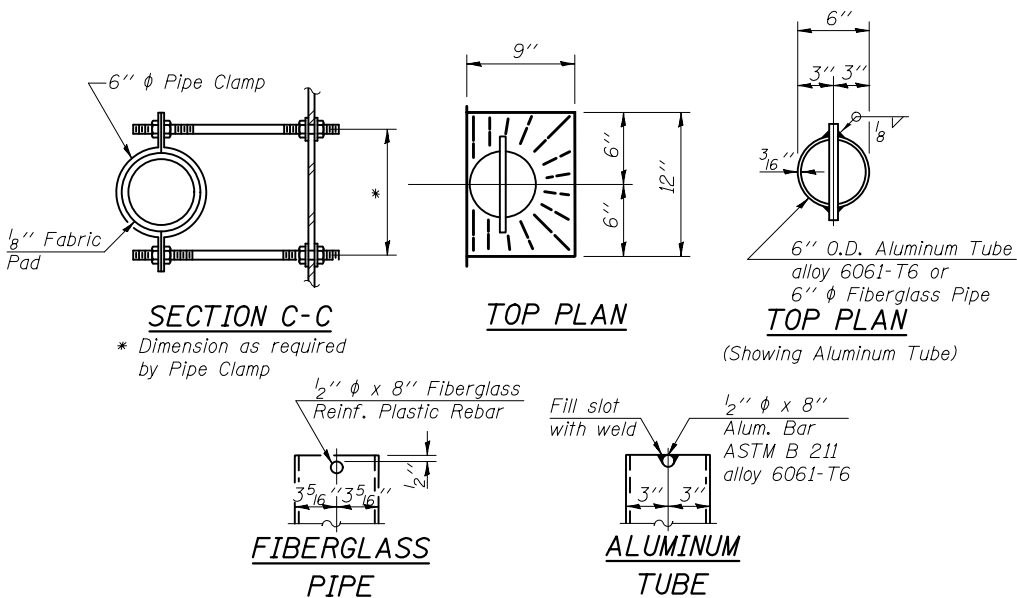
**Notes:**  
 Drains shall be located clear of all diaphragms.  
 The exterior surfaces of the floor drains shall be painted according to Article 506 with the finish coat as specified. The exterior surfaces of the drains shall be cleaned according to the Society of Protective Coatings' Spec. SSPC-SP1 prior to painting.  
 Fiberglass pipe shall conform to ASTM D 2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.  
 Galvanize clamping device according to AASHTO M232. Cost of clamping device and inserts is included with Floor Drains.



**PLAN - REINFORCEMENT  
TREATMENT AT SCUPPERS  
(SOUTH SIDE)**



**PLAN - REINFORCEMENT  
TREATMENT AT SCUPPERS  
(NORTH SIDE)**



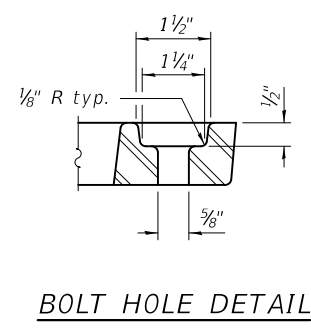
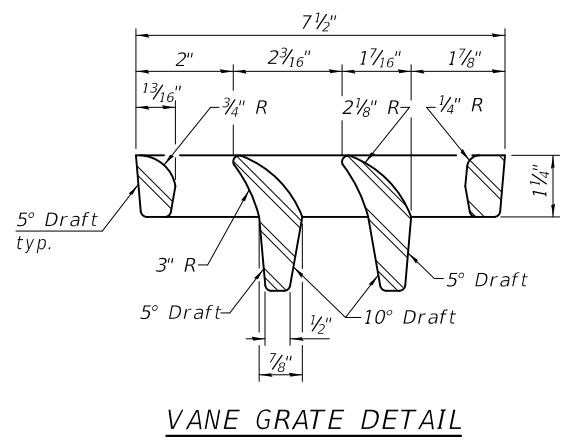
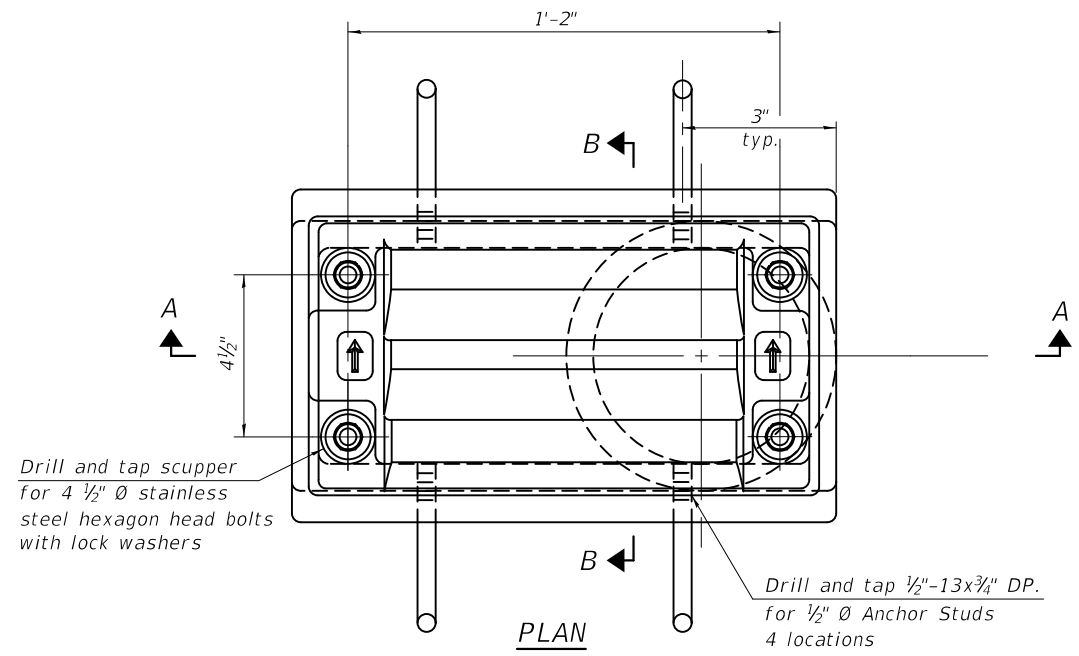
**SUPERSTRUCTURE  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a1(E)	819	#5	44'-6"	—
a2(E)	1972	#6	6'-6"	—
a3(E)	12	#9	17'-2"	—
a4(E)	3	#9	33'-6"	—
a5(E)	12	#9	37'-0"	—
a6(E)	3	#9	13'-9"	—
a7(E)	86	#5	46'-0"	—
a8(E)	52	#5	44'-7"	—
a9(E)	89	#5	47'-1"	—
a10(E)	52	#5	45'-7"	—
a11(E)	16	#5	1'-6"	—
b(E)	816	#5	30'-7"	—
b1(E)	135	#6	34'-9"	—
b2(E)	135	#6	36'-5"	—
b3(E)	792	#5	29'-1"	—
d(E)	1,024	#5	5'-7"	—
d1(E)	512	#5	7'-5"	—
d2(E)	512	#5	8'-0"	—
e(E)	28	#4	17'-7"	—
e1(E)	217	#4	17'-4"	—
e2(E)	64	#4	19'-9"	—
e3(E)	49	#4	18'-1"	—
e4(E)	14	#4	15'-3"	—
e5(E)	12	#8	35'-9"	—
e6(E)	8	#8	19'-9"	—
e7(E)	5	#8	34'-3"	—
e8(E)	4	#8	34'-6"	—
e9(E)	15	#4	27'-1"	—
e10(E)	6	#4	26'-9"	—
e11(E)	5	#4	26'-2"	—
e12(E)	5	#8	33'-3"	—
e13(E)	6	#4	25'-11"	—
x(E)	34	#5	7'-4"	—

Reinforcement Bars, Epoxy Coated	Pound	182,560
Concrete Superstructure	Cu. Yds.	680.1

Bars indicated thus 1 x 4-#8 etc. indicates 1 line of bars with 4 lengths per line.

SDATES \$TIMES



Notes:

All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B.

Bolts, anchor studs, washers and nuts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232.

Downspouts located on the exterior side of a painted steel fascia beam shall be painted with the finish coat specified for the exterior side of the fascia beam.

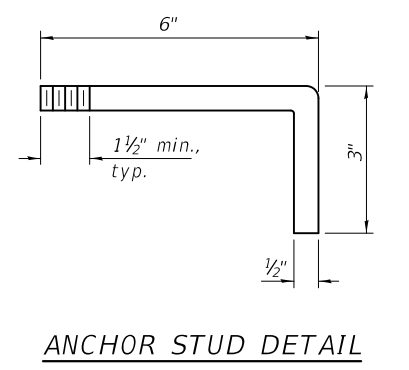
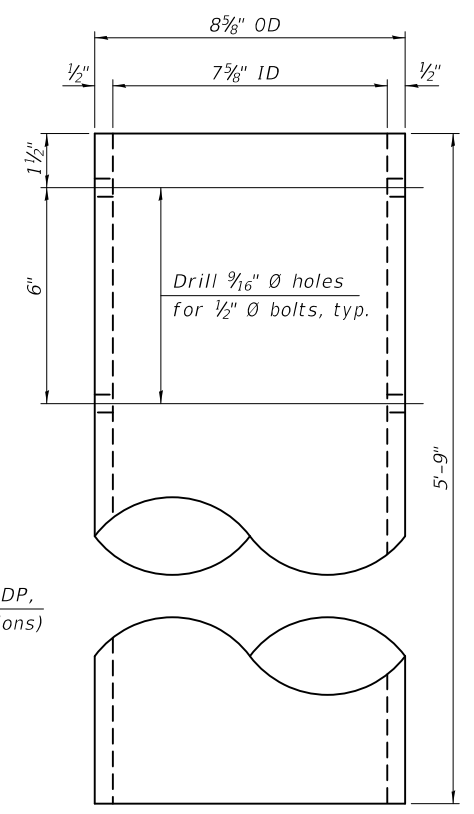
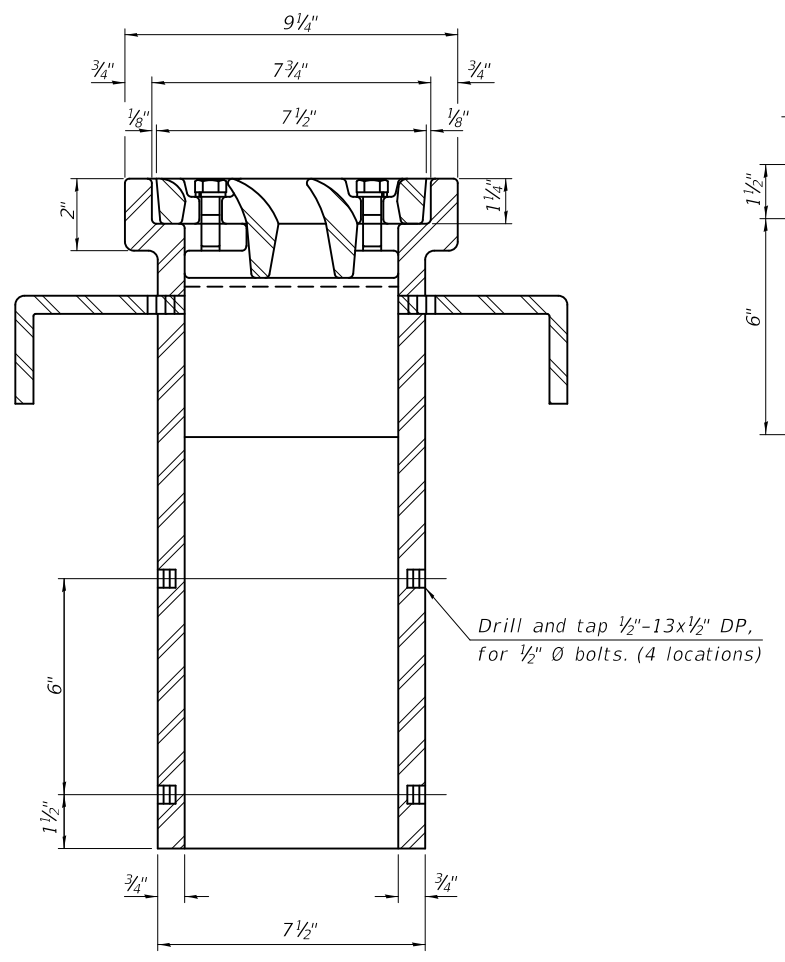
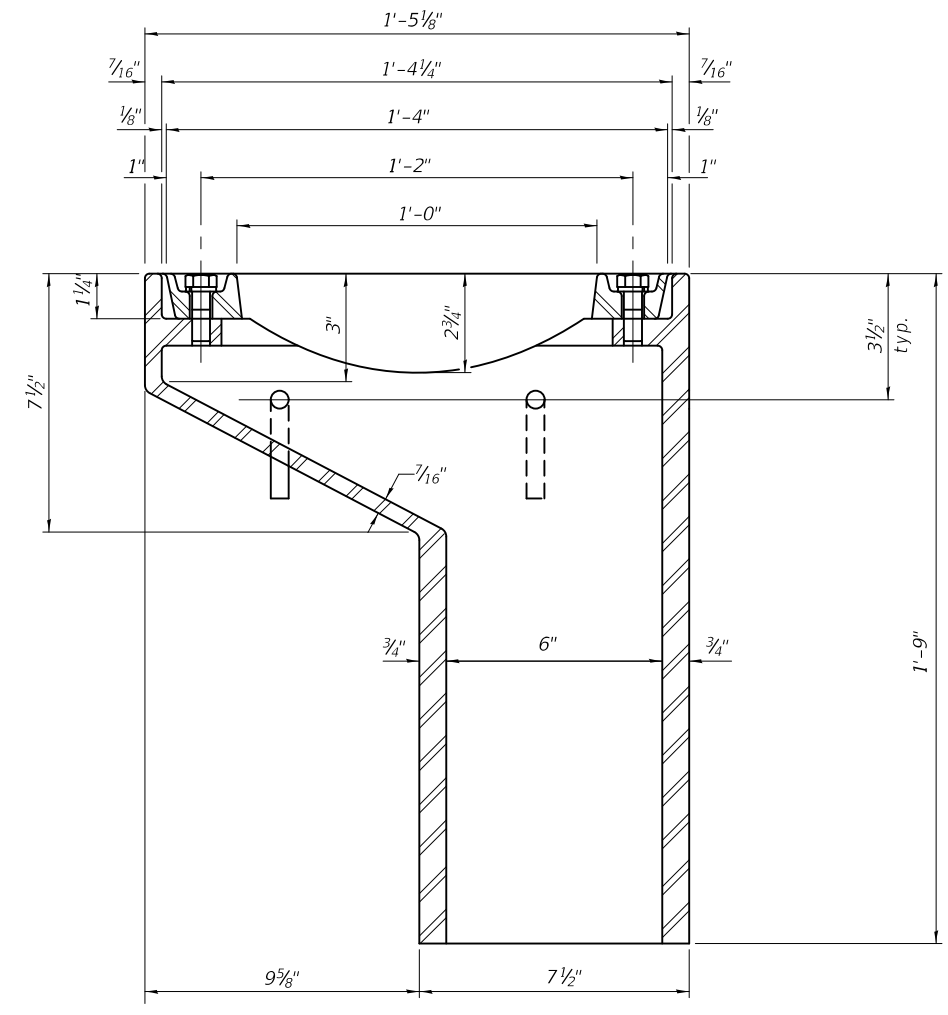
As an alternate, bolts, anchor studs, washers and nuts may be stainless steel according to Article 1006.29(d) of the Standard Specifications.

Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frame. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval. Structural steel weldments shall not be substituted for the cast iron scupper grate. Structural steel frames and downspouts shall be galvanized according to AASHTO M111.

The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.

Cost of the Grate, Frame, Downspout, Anchor Studs, Bolts, Washers and Nuts including complete installation of the scupper shall be paid for at the contract unit price each for Drainage Scupper, DS-11.

Alternate fiberglass downspout conforming to ASTM D 2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. may be used in lieu of the cast iron or steel equivalent.



**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Drainage Scupper, DS-11	Each	2

SDATES \$TIMES

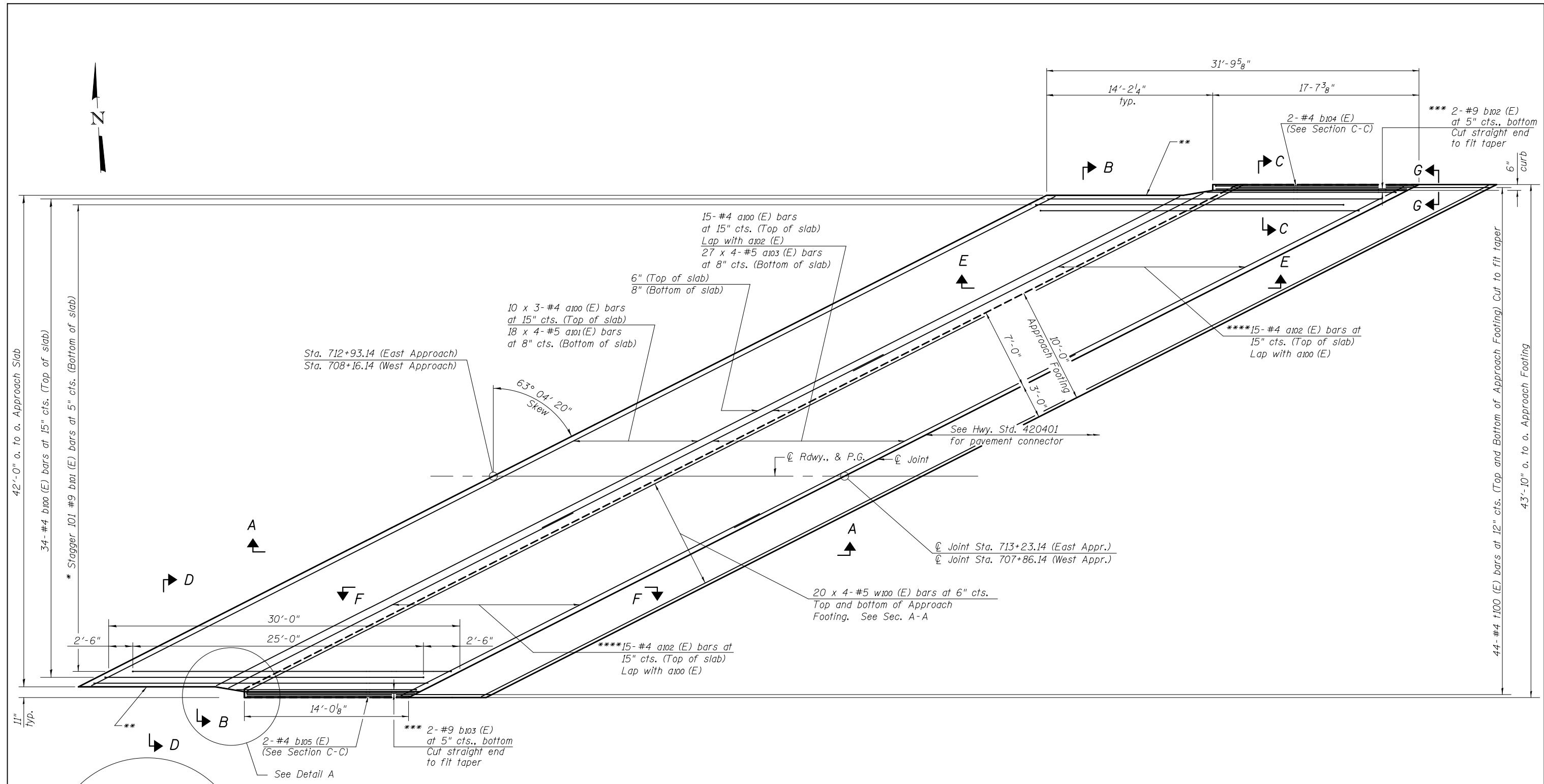
DS-11 2-17-2017

DESIGNED - Josue D. Ortiz-Varela	EXAMINED - <i>James F. Joffe</i>	DATE - MAY 15, 2017
CHECKED - Nicholas R. Barnett	PASSED - <i>Carl Berger</i>	REVISER
DRAWN - R. Laughlin	ENGINEER OF BRIDGES AND STRUCTURES	REVISER
CHECKED - J.O.V. / N.R.B. / G.R.A.		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DRAINAGE SCUPPER, DS-11  
STRUCTURE NO. 026-0022  
SHEET NO. 14 OF 52 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(26-3VB1)BR-1	FAYETTE	103	31
CONTRACT NO. 74518				
ILLINOIS FED. AID PROJECT				



**PLAN**

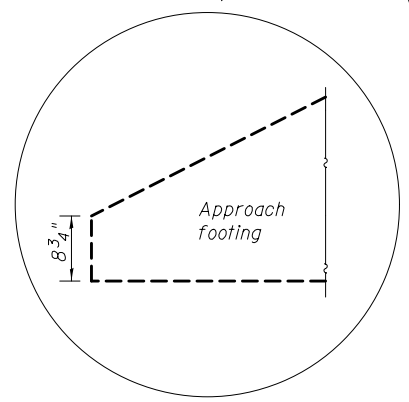
East Approach shown; West Approach similar, rotated 180°

**MINIMUM BAR LAP**

#4 Bar = 2'-11"  
#5 Bar = 3'-2"

- \* Tilt #9 b101(E) bars as required to maintain clearance.
- \*\* Preformed Flexible Foam Expansion Joint Filler according to Article 1051.09 of the Standard Specifications; full depth of slab, full length of parapet. Cost included with Concrete Superstructure. Typical each parapet.
- \*\*\* Place hook at alternate ends as shown. Tilt b102 (E) and b103 (E) bars as required to maintain clearance.
- \*\*\*\* Cut bent end to fit taper.

Note:  
See sheets 16 and 17 of 52 for additional details.  
Bars indicated thus 10 x 3-#4 etc. indicates 10 lines of bars with 3 lengths per line.

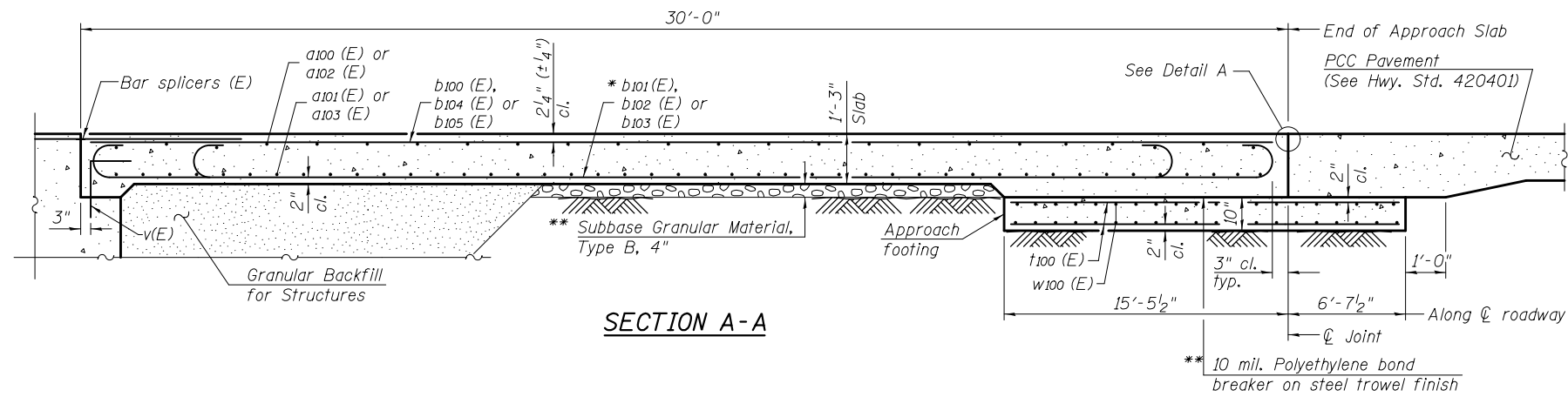


**DETAIL A**

SDATES \$TIMES

DESIGNED - Josue D. Ortiz-Varela	EXAMINED - <i>Joanne F. J. [Signature]</i>	DATE - MAY 15, 2017	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>BRIDGE APPROACH SLAB DETAILS STRUCTURE NO. 026-0022</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
CHECKED - Nicholas R. Barnett	PASSED - <i>Carl [Signature]</i>	REVIS			70	(26-3VB1BR-1)	FAYETTE	103	32	
DRAWN - R. Laughlin	ENGINEER OF BRIDGES AND STRUCTURES	REVIS			CONTRACT NO. 74518					
CHECKED - J.O.V. / N.R.B. / G.R.A.					SHEET NO. 15 OF 52 SHEETS					



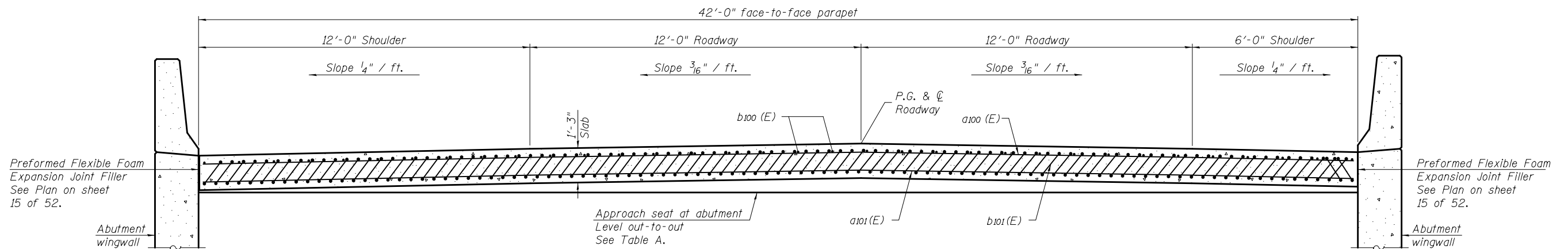


SECTION A-A

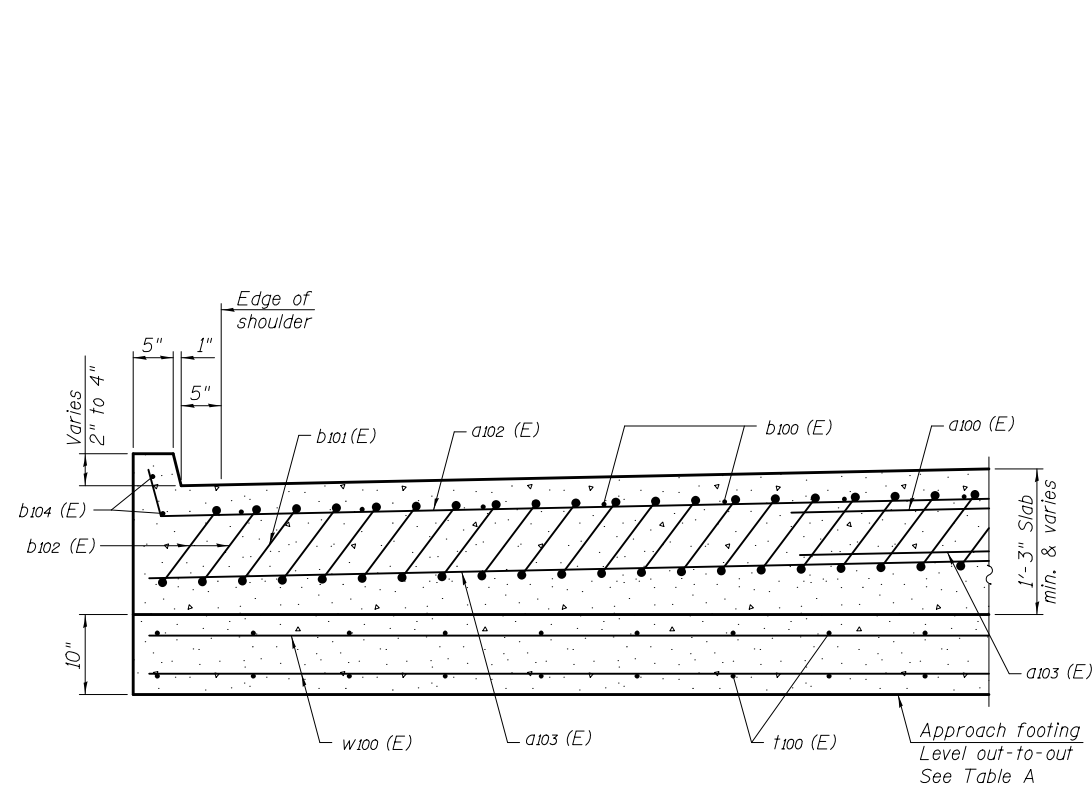
**TABLE A**

Location	Approach seat Elev. at abutment	Bottom of Footing Elev.
West Approach	556.60	555.73
East Approach	554.27	553.15

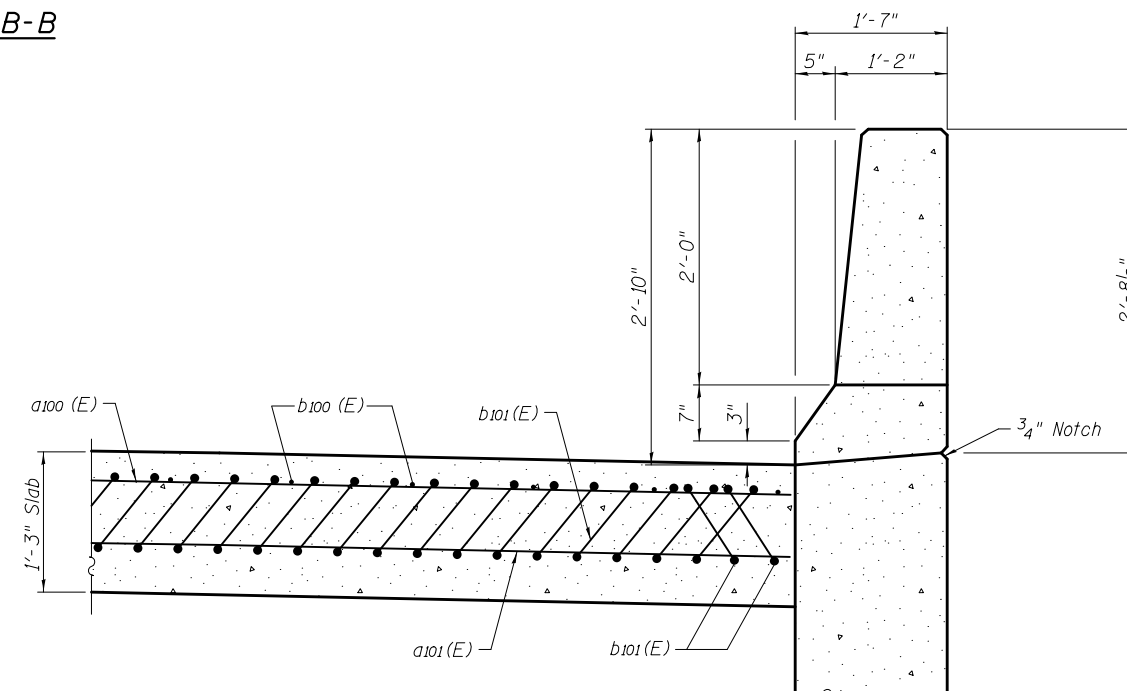
\* Tilt #9 b101(E) bars as required to maintain clearance.  
 \*\* Cost included with Concrete Superstructure (Approach Slab).



SECTION B-B



SECTION C-C



SECTION D-D

SDATES \$TIMES

DESIGNED - Josue D. Ortiz-Varela	EXAMINED - <i>Joanne F. [Signature]</i>	DATE - MAY 15, 2017
CHECKED - Nicholas R. Barnett	PASSED - <i>Carl [Signature]</i>	REVISOR
DRAWN - R. Laughlin	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR
CHECKED - J.O.V. / N.R.B. / G.R.A.		

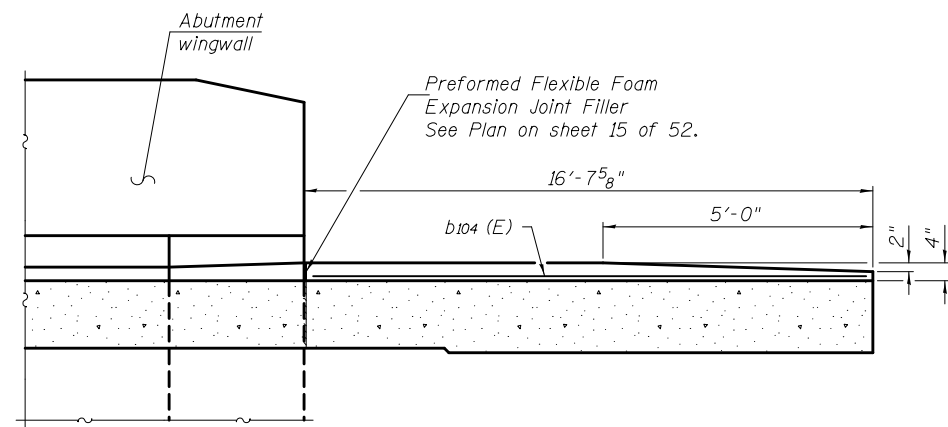
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS  
STRUCTURE NO. 026-0022

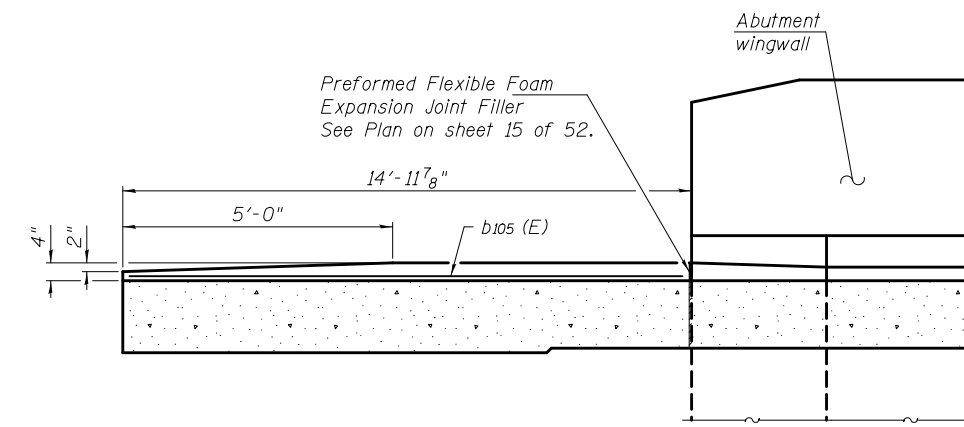
SHEET NO. 16 OF 52 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(26-3VB1)BR-1	FAYETTE	103	33
CONTRACT NO. 74518				

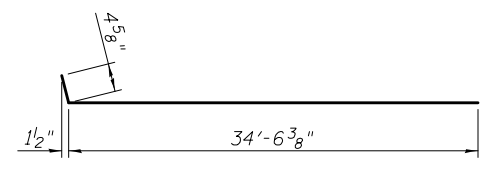
ILLINOIS FED. AID PROJECT



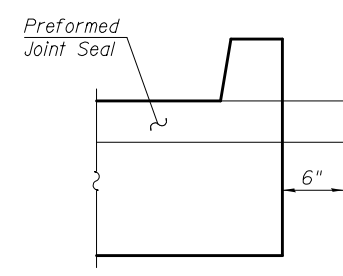
**VIEW E-E**  
(Showing curb reinforcement)



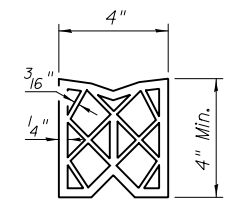
**VIEW F-F**  
(Showing curb reinforcement)



**BAR a102 (E)**



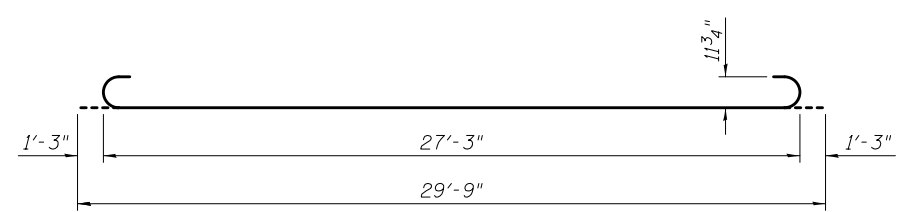
**VIEW G-G**



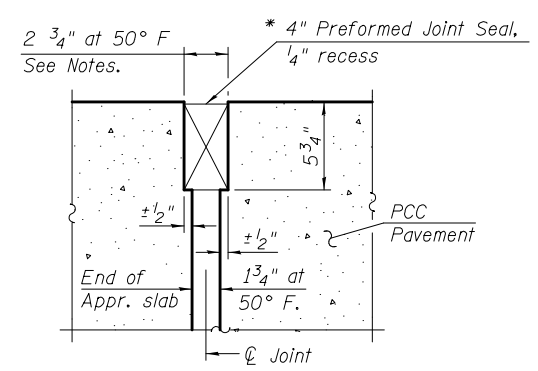
**PREFORMED JOINT SEAL**

**TWO APPROACHES  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a100 (E)	90	#4	32'-8"	—
a101 (E)	144	#5	25'-6"	—
a102 (E)	60	#4	34'-11"	—
a103 (E)	216	#5	26'-6"	—
b100 (E)	68	#4	29'-3"	—
b101 (E)	202	#9	29'-9"	—
b102 (E)	4	#9	18'-0"	—
b103 (E)	4	#9	16'-2"	—
b104 (E)	4	#9	16'-7"	—
b105 (E)	4	#4	13'-11"	—
t100 (E)	176	#4	21'-4"	—
w100 (E)	320	#5	26'-6"	—
Concrete Superstructure			Cu. Yd.	7.8
Concrete Superstructure (Approach Slab)			Cu. Yd.	134.5
Concrete Structures			Cu. Yd.	59.8
Reinforcement Bars, Epoxy Coated			Pound	46,820

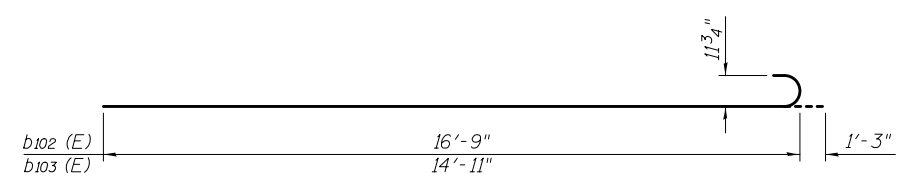


**BAR b101 (E)**



**RIGID PAVEMENT**

**DETAIL A**



**BARS b102 (E) & b103 (E)**

\* Cost included with Concrete Superstructure (Approach Slab)

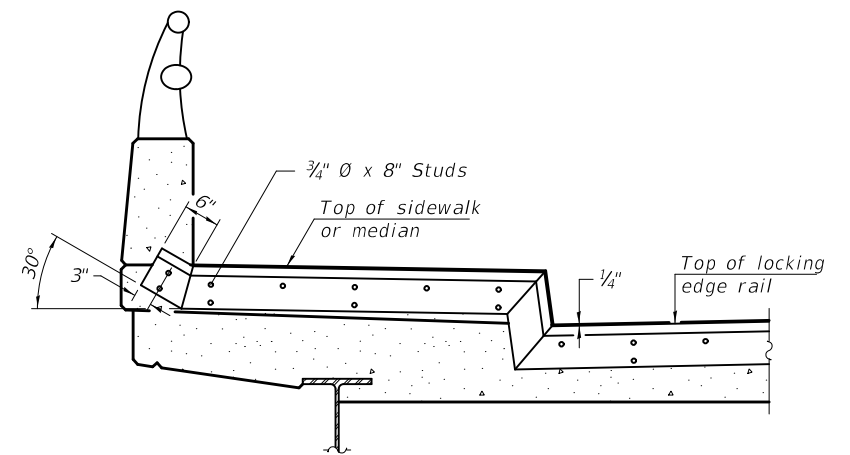
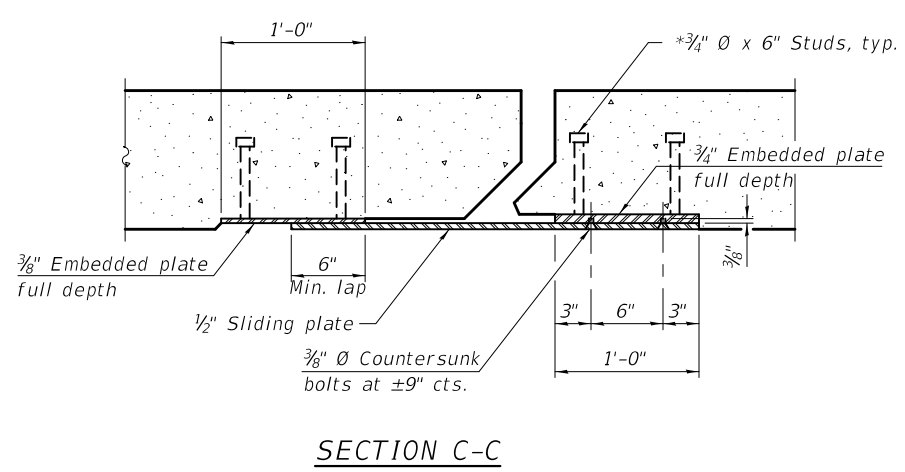
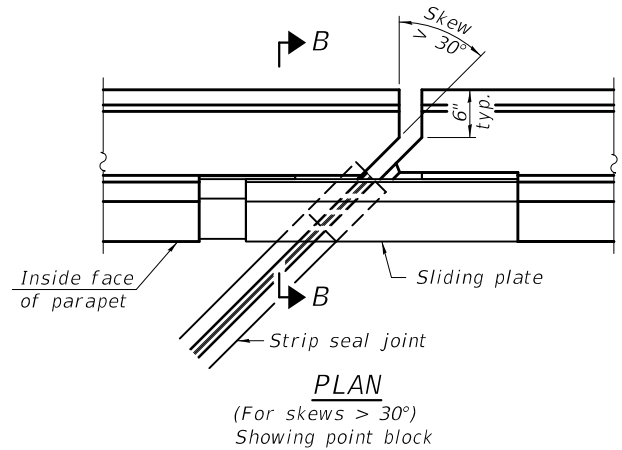
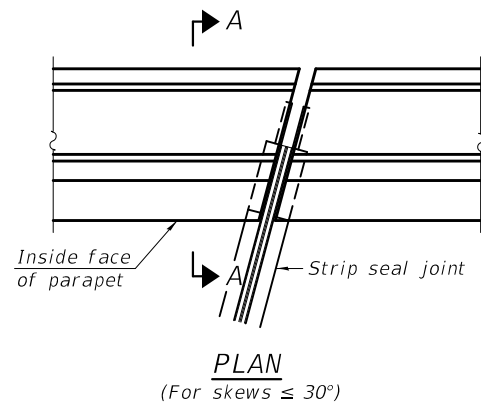
DESIGNED - Josue D. Ortiz-Varela	EXAMINED - <i>Joanne F. J...</i>	DATE - MAY 15, 2017
CHECKED - Nicholas R. Barnett	PASSED - <i>Carl...</i>	REVISOR
DRAWN - R. Laughlin	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR
CHECKED - J.O.V. / N.R.B. / G.R.A.		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

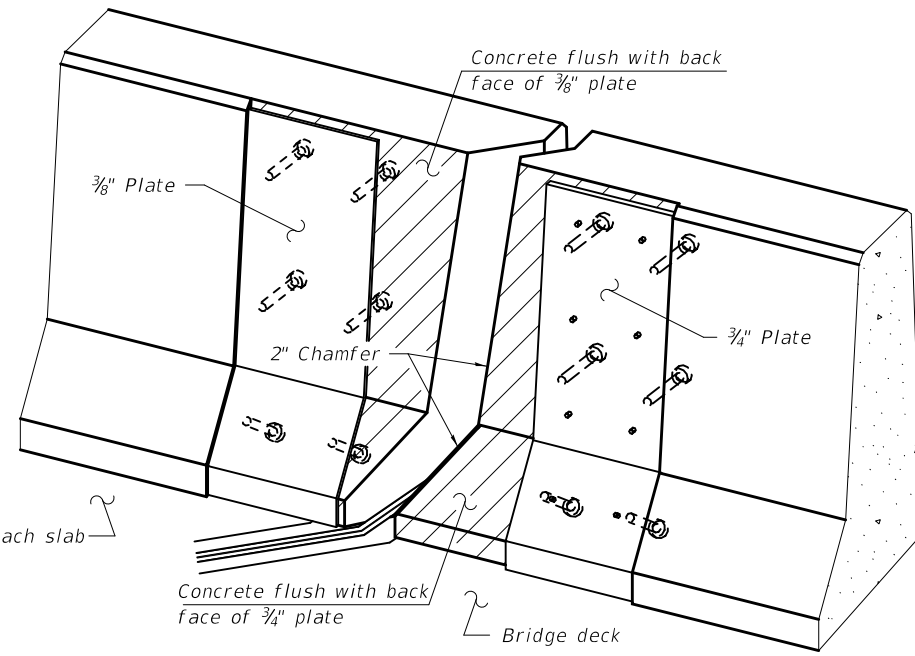
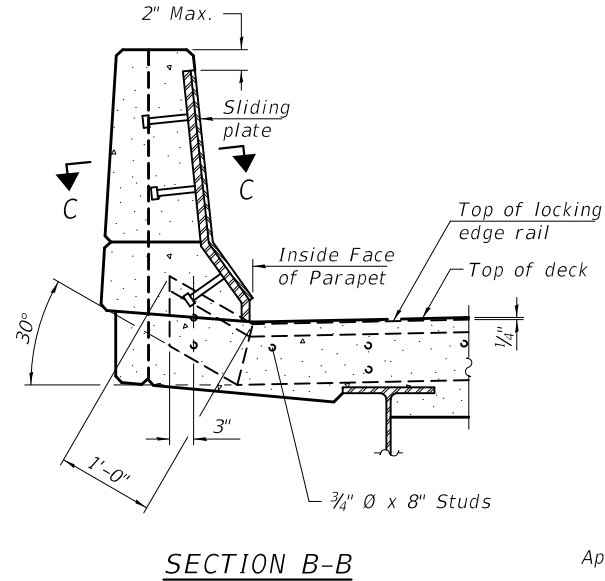
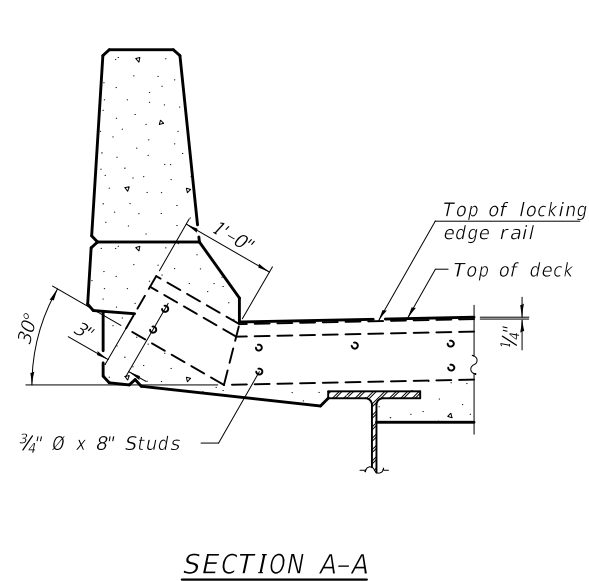
**BRIDGE APPROACH SLAB DETAILS  
STRUCTURE NO. 026-0022**

SHEET NO. 17 OF 52 SHEETS

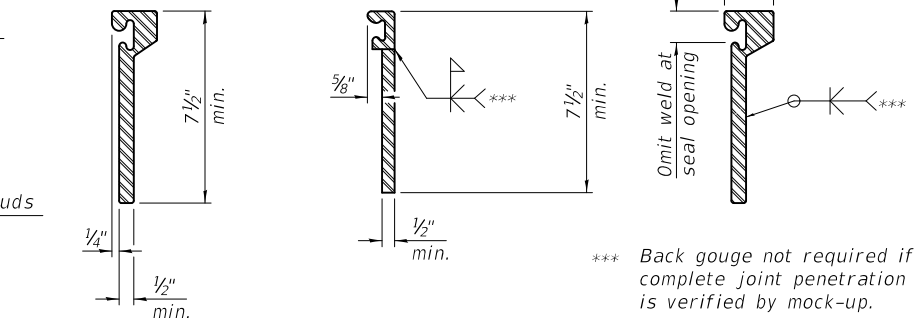
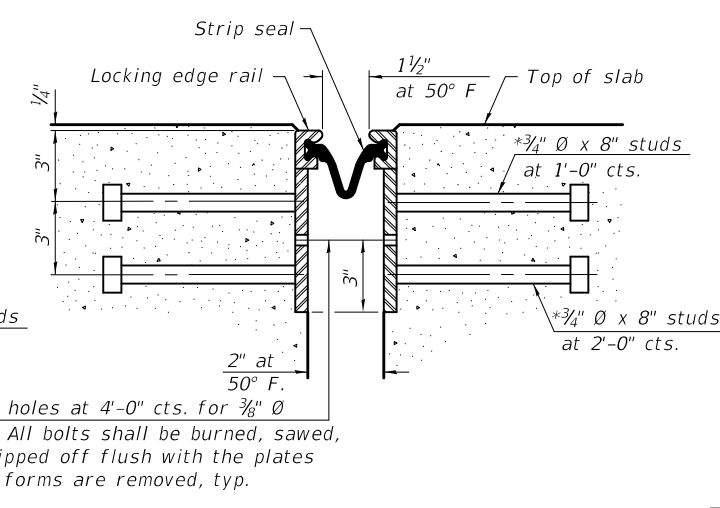
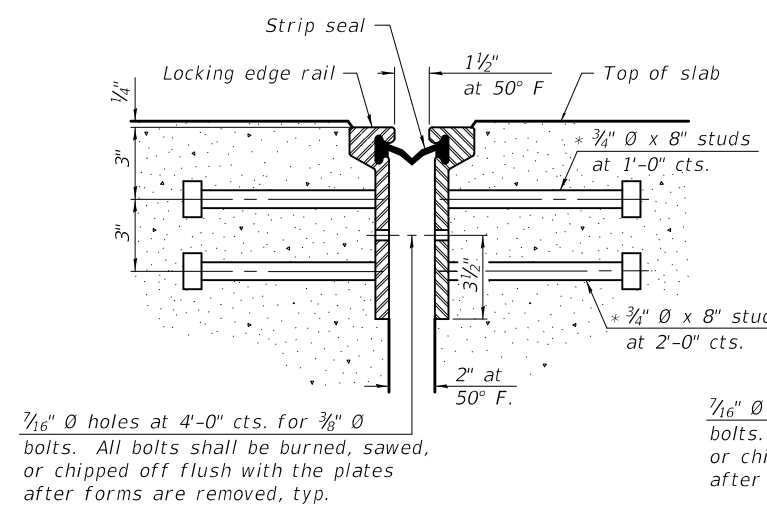
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(26-3VB1)BR-1	FAYETTE	103	34
CONTRACT NO. 74518			ILLINOIS FED. AID PROJECT	



**TYPICAL END TREATMENT AT SIDEWALK OR MEDIAN**  
Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.



**Notes:**  
The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.  
The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.  
The manufacturer's recommended installation methods shall be followed.  
The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.  
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications. Maximum space between rail segments shall be 1/16", sealed with a suitable sealant. Joints in rails within 10 ft. of curbs shall be welded.  
Parapet plates and anchorage studs for skews  $> 30^\circ$  included in the cost of Preformed Joint Strip Seal.



**SECTION THRU ROLLED RAIL JOINT**

**SECTION THRU WELDED RAIL JOINT**

**LOCKING EDGE RAILS**

1/16"  $\phi$  holes at 4'-0" cts. for 3/8"  $\phi$  bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

\* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

**BILL OF MATERIAL**

Item	Unit	Total
Preformed Joint Strip Seal	Foot	95

SDATES \$TIMES

EJ-SSJ

2-17-2017

DESIGNED - Josue D. Ortiz-Varela  
CHECKED - Nicholas R. Barnett  
DRAWN - R. Laughlin  
CHECKED - J.O.V. / N.R.B. / G.R.A.

EXAMINED \_\_\_\_\_  
PASSED \_\_\_\_\_  
ENGINEER OF BRIDGES AND STRUCTURES

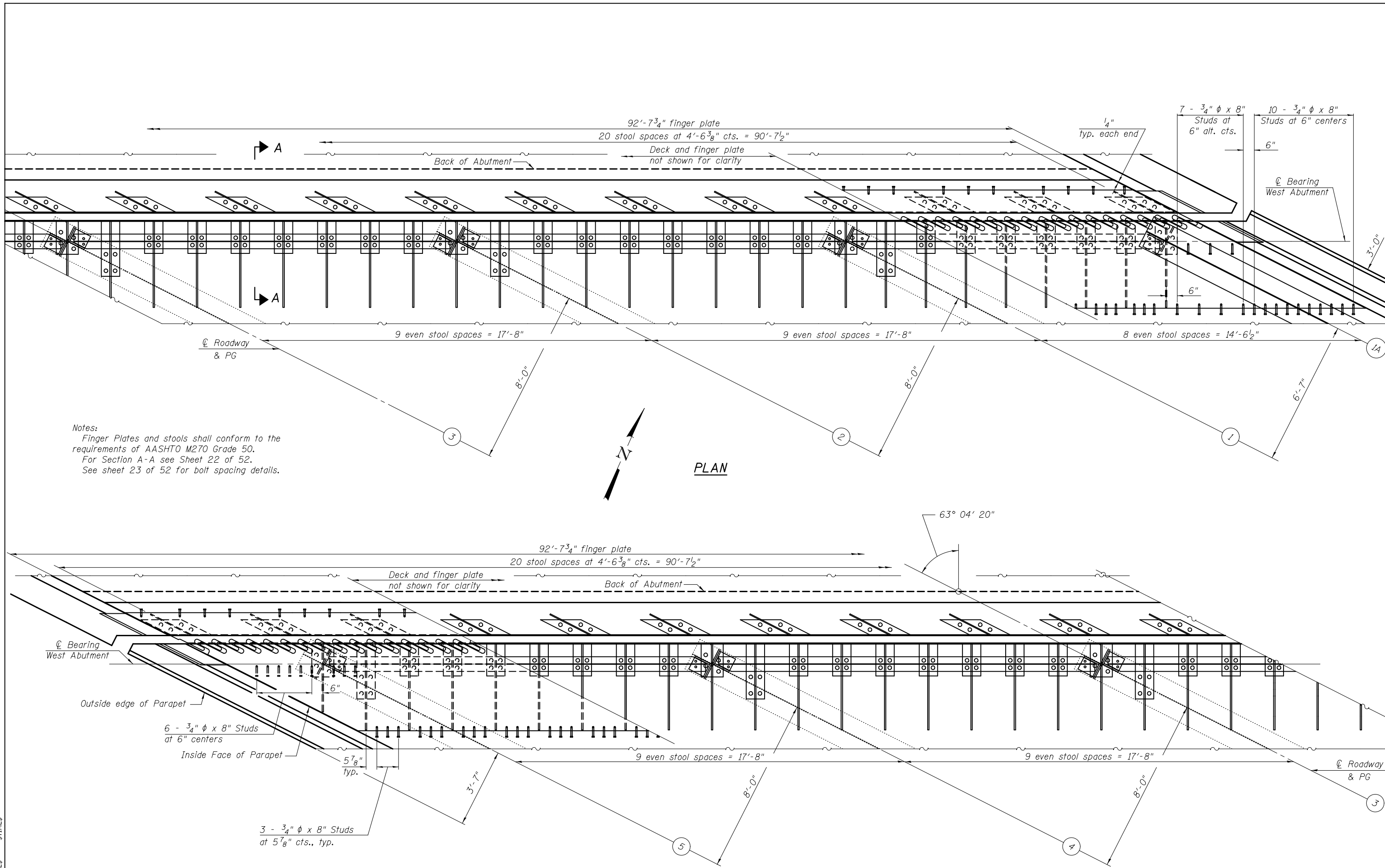
DATE - MAY 15, 2017  
REVISED \_\_\_\_\_  
REVISED \_\_\_\_\_

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

**PREFORMED JOINT STRIP SEAL**  
**STRUCTURE NO. 026-0022**

SHEET NO. 18 OF 52 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(26-3VB1BR-1)	FAYETTE	103	35
CONTRACT NO. 74518				
ILLINOIS FED. AID PROJECT				

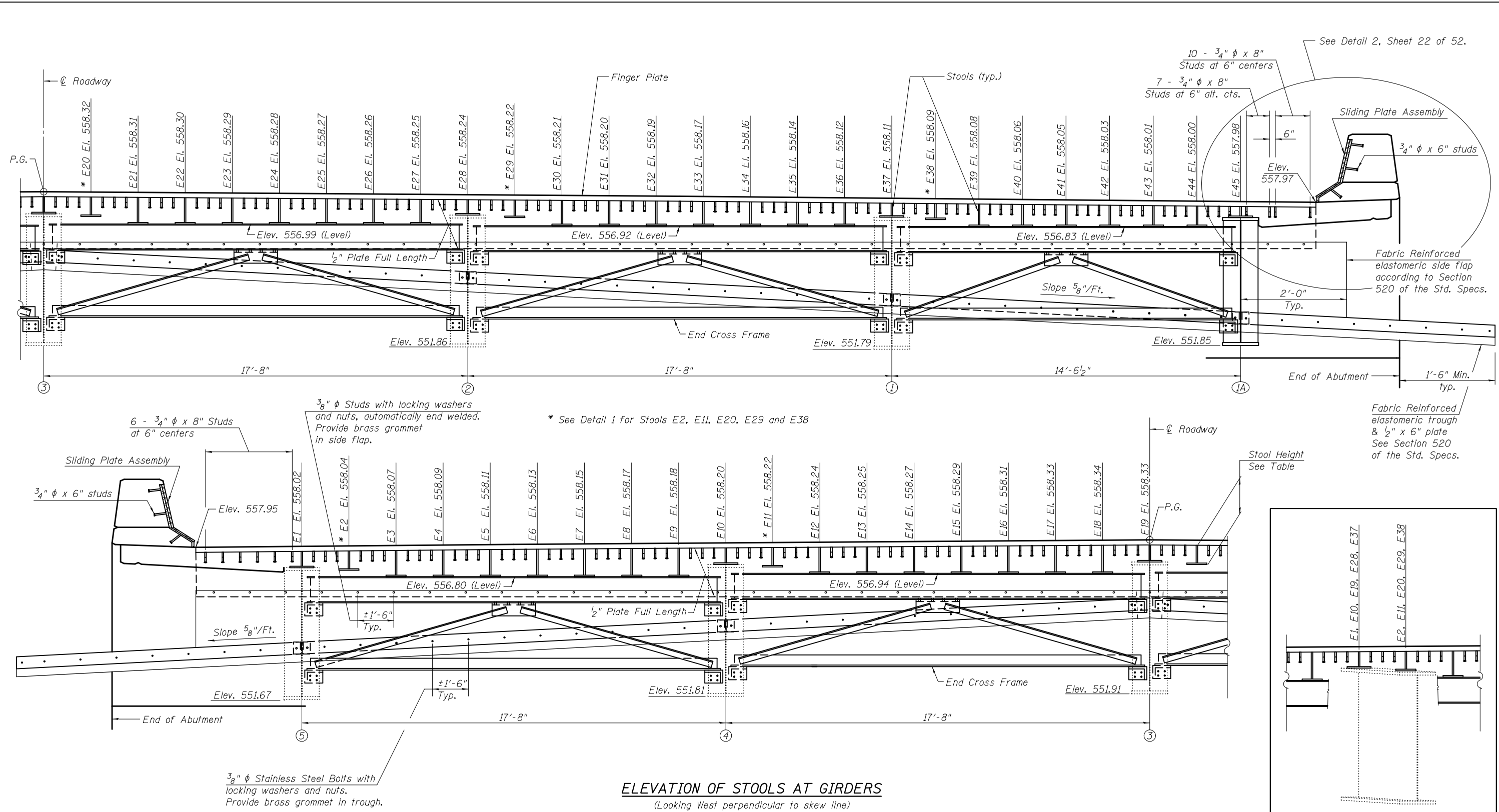


Notes:  
 Finger Plates and stools shall conform to the requirements of AASHTO M270 Grade 50.  
 For Section A-A see Sheet 22 of 52.  
 See sheet 23 of 52 for bolt spacing details.

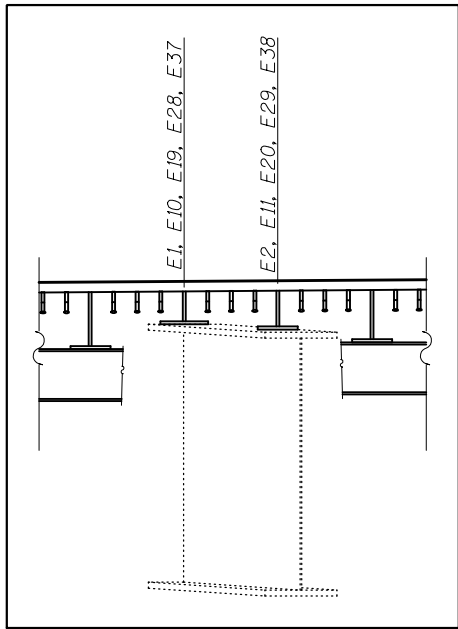
PLAN

SDATES \$TIMES

DESIGNED - Josue D. Ortiz-Varela	EXAMINED - <i>Joanne F. Joffe</i> ENGINEER OF BRIDGE DESIGN	DATE - MAY 15, 2017	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EXPANSION JOINT AT WEST ABUTMENT STRUCTURE NO. 026-0022</b>	F.A.I. RTE. - 70	SECTION - (26-3VB1)BR-1	COUNTY - FAYETTE	TOTAL SHEETS - 103	SHEET NO. - 36	
CHECKED - Nicholas R. Barnett	PASSED - <i>Carl Kasper</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED			CONTRACT NO. 74518			ILLINOIS FED. AID PROJECT		
DRAWN - R. Laughlin		REVISED			SHEET NO. 19 OF 52 SHEETS					
CHECKED - J.O.V. / N.R.B. / G.R.A.										



**ELEVATION OF STOOLS AT GIRDERS**  
(Looking West perpendicular to skew line)



**DETAIL 1**  
Showing Stool location on girder

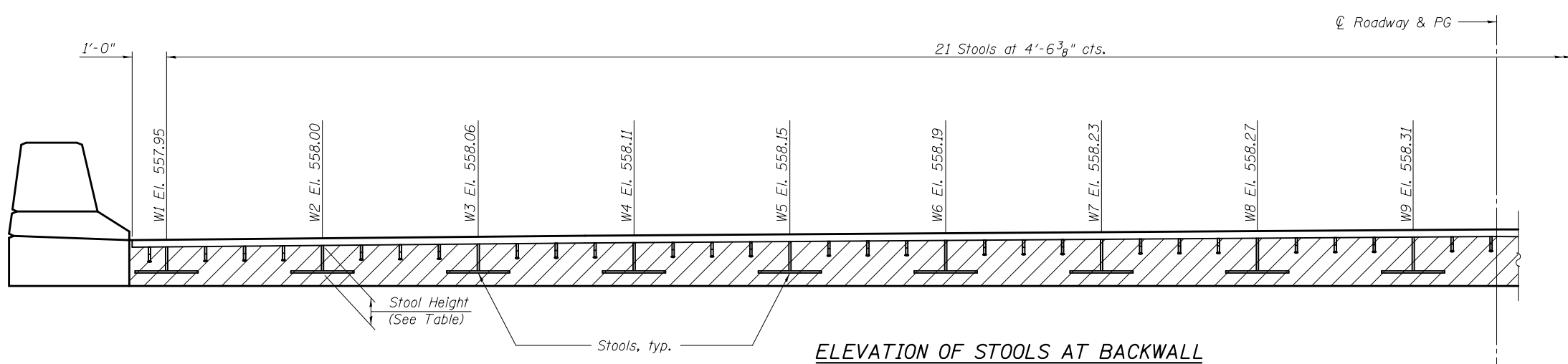
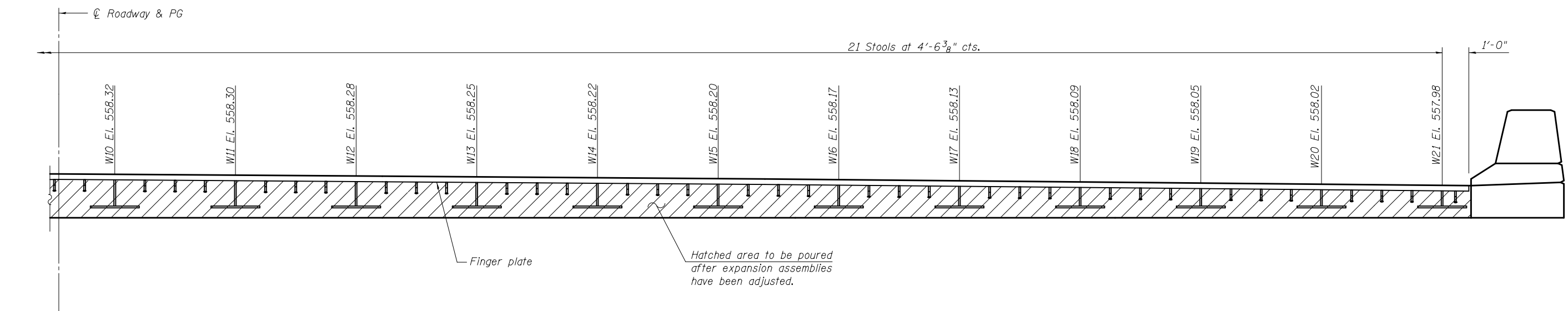
Notes:  
Elevations are given at the top of slab along end of deck.  
Bend trough support in order to avoid interference with southwest wingwall.

**TABLE OF STOOLS HEIGHTS**

Stool	E1	E2	E3	E4	E5	E6	E7	E8	E9	E10	E11	E12	E13	E14	E15	E16	E17	E18	E19	E20	E21	E22	E23	E24	E25	E26	E27	E28	E29	E30	E31	E32	E33	E34	E35	E36	E37	E38	E39	E40	E41	E42	E43	E44	E45
Height	7 <sup>7</sup> / <sub>16</sub> "	7 <sup>11</sup> / <sub>16</sub> "	12 <sup>9</sup> / <sub>16</sub> "	12 <sup>13</sup> / <sub>16</sub> "	13"	13 <sup>1</sup> / <sub>4</sub> "	13 <sup>1</sup> / <sub>2</sub> "	13 <sup>3</sup> / <sub>4</sub> "	13 <sup>7</sup> / <sub>8</sub> "	7 <sup>15</sup> / <sub>16</sub> "	8 <sup>3</sup> / <sub>16</sub> "	12 <sup>15</sup> / <sub>16</sub> "	13"	13 <sup>1</sup> / <sub>4</sub> "	13 <sup>1</sup> / <sub>2</sub> "	13 <sup>3</sup> / <sub>4</sub> "	13 <sup>7</sup> / <sub>8</sub> "	14 <sup>1</sup> / <sub>8</sub> "	8 <sup>5</sup> / <sub>16</sub> "	8 <sup>3</sup> / <sub>16</sub> "	13 <sup>1</sup> / <sub>8</sub> "	13"	12 <sup>15</sup> / <sub>16</sub> "	12 <sup>13</sup> / <sub>16</sub> "	12 <sup>11</sup> / <sub>16</sub> "	12 <sup>9</sup> / <sub>16</sub> "	12 <sup>7</sup> / <sub>16</sub> "	7 <sup>13</sup> / <sub>16</sub> "	7 <sup>9</sup> / <sub>16</sub> "	12 <sup>13</sup> / <sub>16</sub> "	12 <sup>11</sup> / <sub>16</sub> "	12 <sup>9</sup> / <sub>16</sub> "	12 <sup>5</sup> / <sub>16</sub> "	12 <sup>3</sup> / <sub>16</sub> "	11 <sup>15</sup> / <sub>16</sub> "	11 <sup>11</sup> / <sub>16</sub> "	7 <sup>1</sup> / <sub>16</sub> "	6 <sup>7</sup> / <sub>8</sub> "	12 <sup>1</sup> / <sub>4</sub> "	11 <sup>7</sup> / <sub>8</sub> "	11 <sup>7</sup> / <sub>8</sub> "	11 <sup>9</sup> / <sub>16</sub> "	11 <sup>5</sup> / <sub>16</sub> "	11 <sup>3</sup> / <sub>16</sub> "	6 <sup>9</sup> / <sub>16</sub> "

SDATES STIMES

DESIGNED - Josue D. Ortiz-Varela	EXAMINED - <i>Joanne F. J. [Signature]</i>	DATE - MAY 15, 2017	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EXPANSION JOINT AT WEST ABUTMENT STRUCTURE NO. 026-0022</b>	F.A.I. RTE. 70	SECTION (26-3VB1BR-1)	COUNTY FAYETTE	TOTAL SHEETS 103	SHEET NO. 37	
CHECKED - Nicholas R. Barnett	PASSED - <i>[Signature]</i>	REVISOR			CONTRACT NO. 74518					
DRAWN - R. Laughlin	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR			SHEET NO. 20 OF 52 SHEETS					
CHECKED - J.O.V. / N.R.B. / G.R.A.					ILLINOIS FED. AID PROJECT					



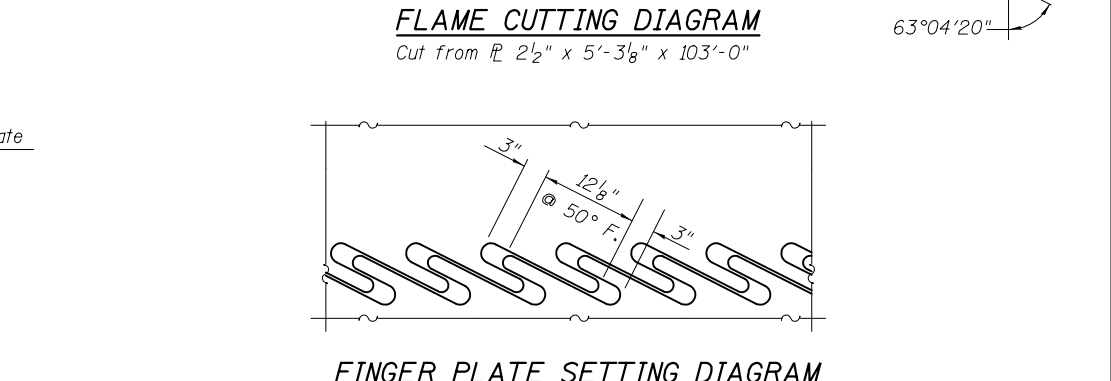
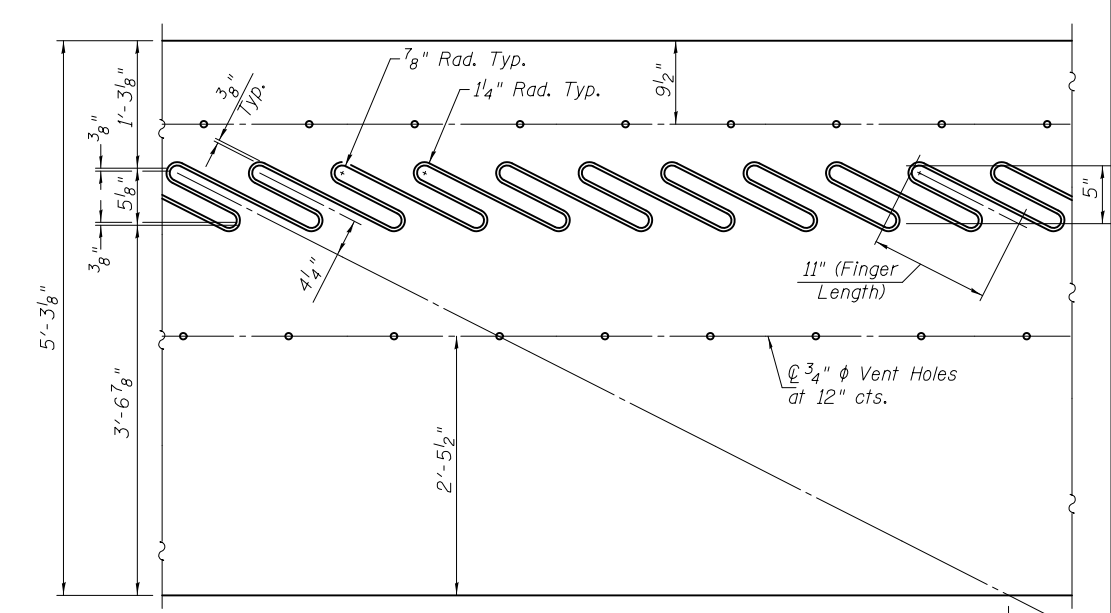
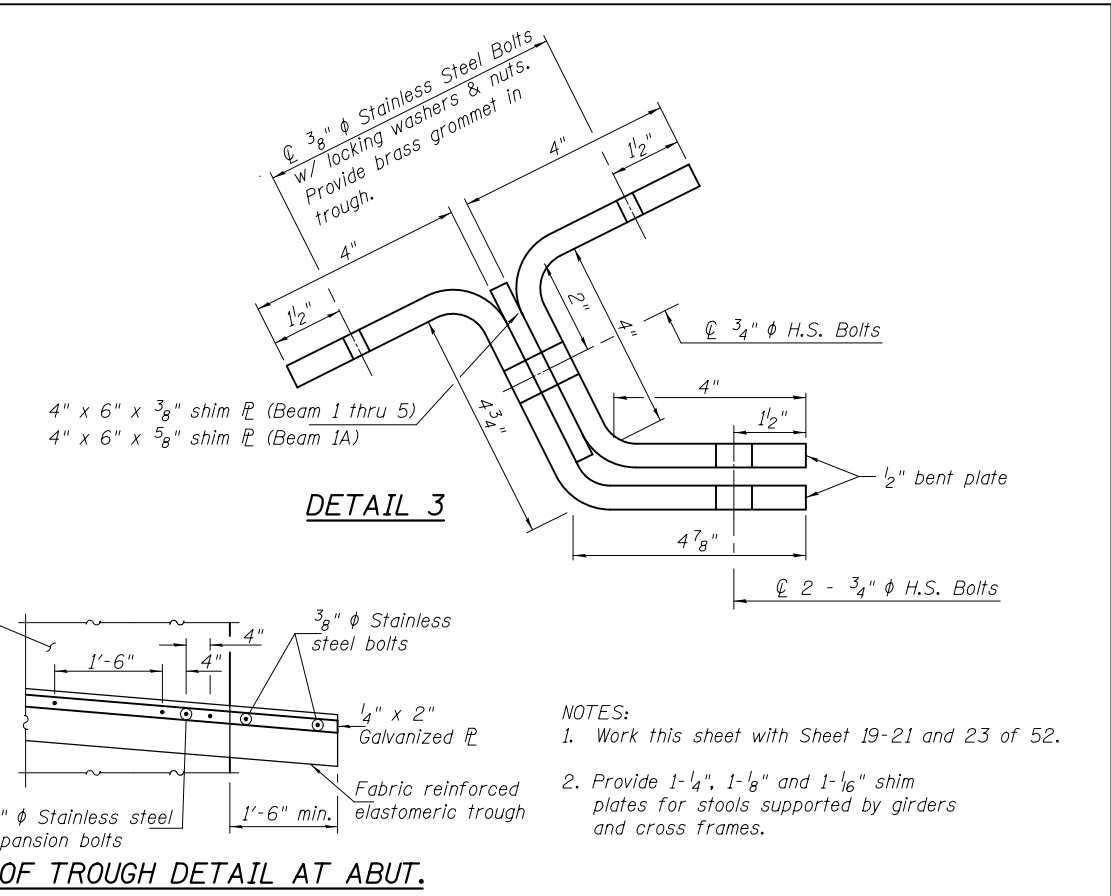
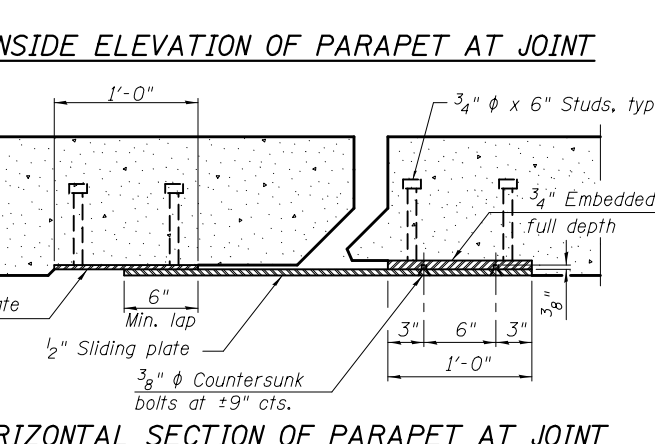
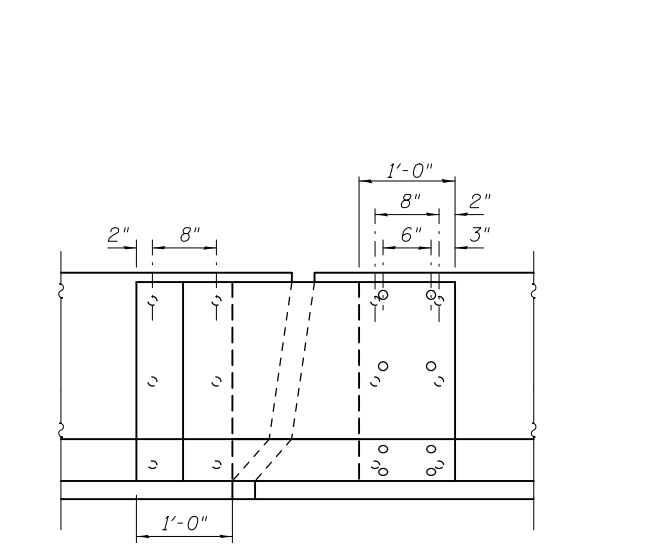
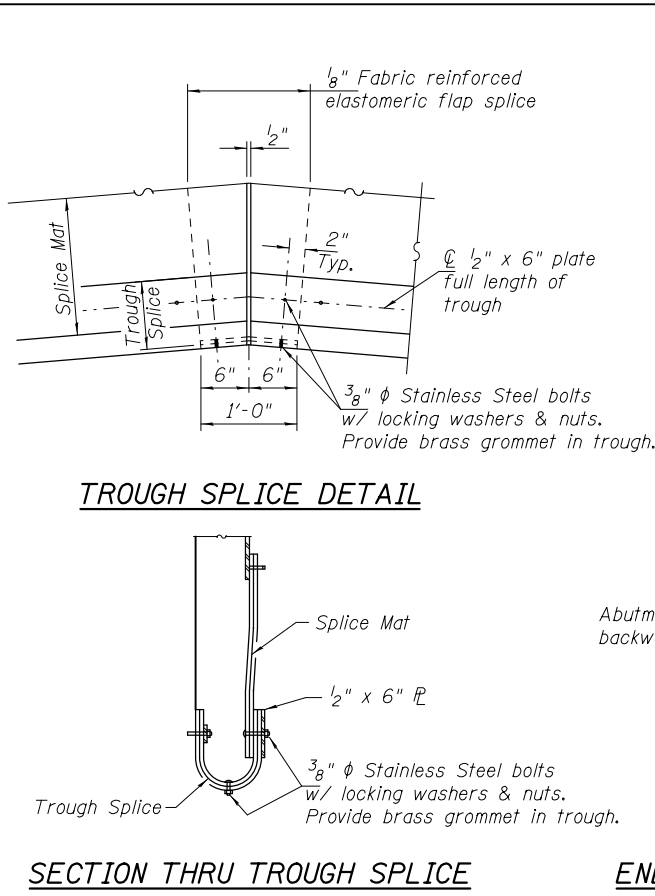
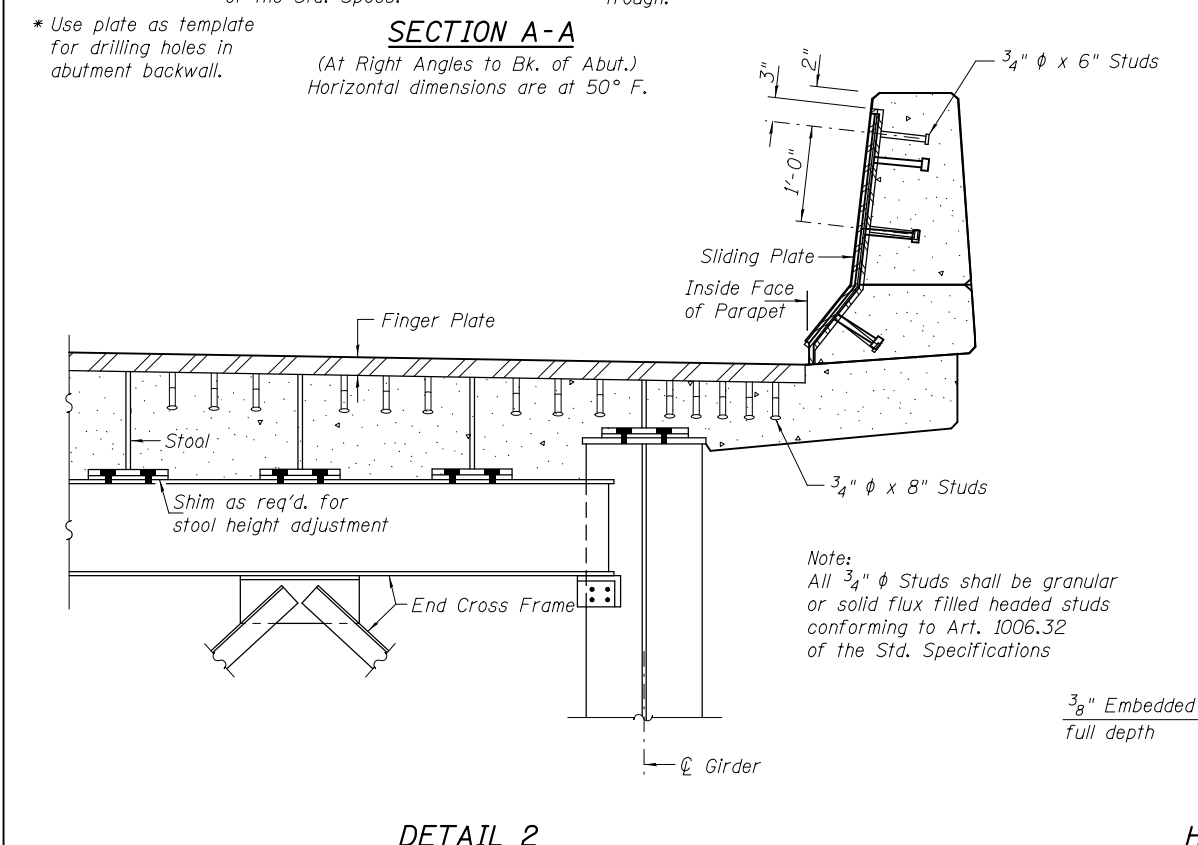
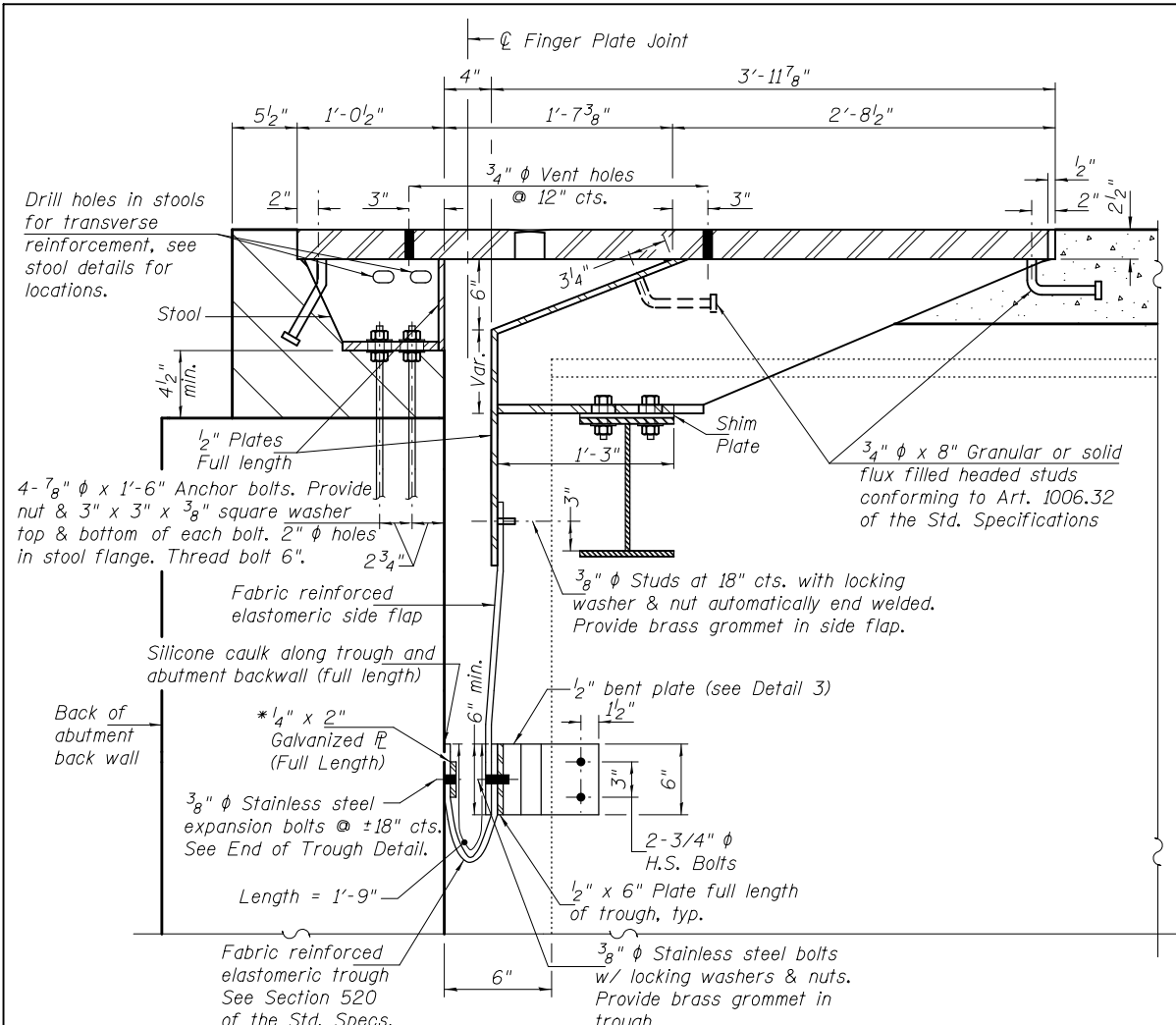
**ELEVATION OF STOOLS AT BACKWALL**  
(Looking West perpendicular to skew line)

**TABLE OF STOOLS HEIGHTS**

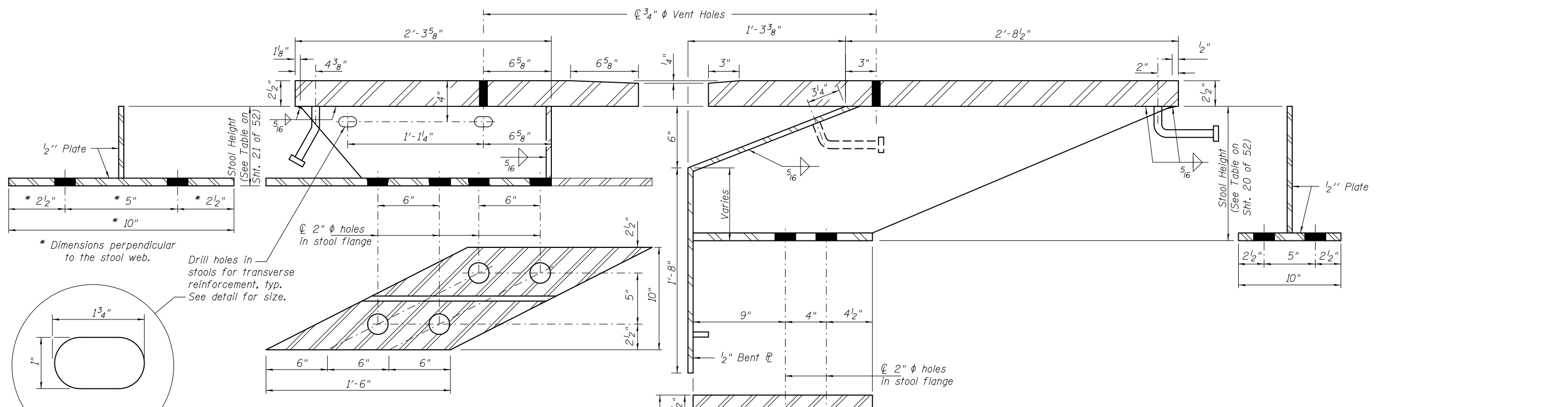
Stool	W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12	W13	W14	W15	W16	W17	W18	W19	W20	W21
Height	9 <sup>3</sup> / <sub>16</sub> "	9 <sup>3</sup> / <sub>4</sub> "	10 <sup>1</sup> / <sub>2</sub> "	11 <sup>1</sup> / <sub>8</sub> "	11 <sup>9</sup> / <sub>16</sub> "	12 <sup>1</sup> / <sub>16</sub> "	12 <sup>9</sup> / <sub>16</sub> "	13"	13 <sup>1</sup> / <sub>2</sub> "	13 <sup>5</sup> / <sub>8</sub> "	13 <sup>3</sup> / <sub>8</sub> "	13 <sup>1</sup> / <sub>8</sub> "	12 <sup>3</sup> / <sub>4</sub> "	12 <sup>7</sup> / <sub>16</sub> "	12 <sup>3</sup> / <sub>16</sub> "	11 <sup>13</sup> / <sub>16</sub> "	11 <sup>5</sup> / <sub>16</sub> "	10 <sup>7</sup> / <sub>8</sub> "	10 <sup>3</sup> / <sub>8</sub> "	10"	9 <sup>9</sup> / <sub>16</sub> "

SDATES \$TIMES

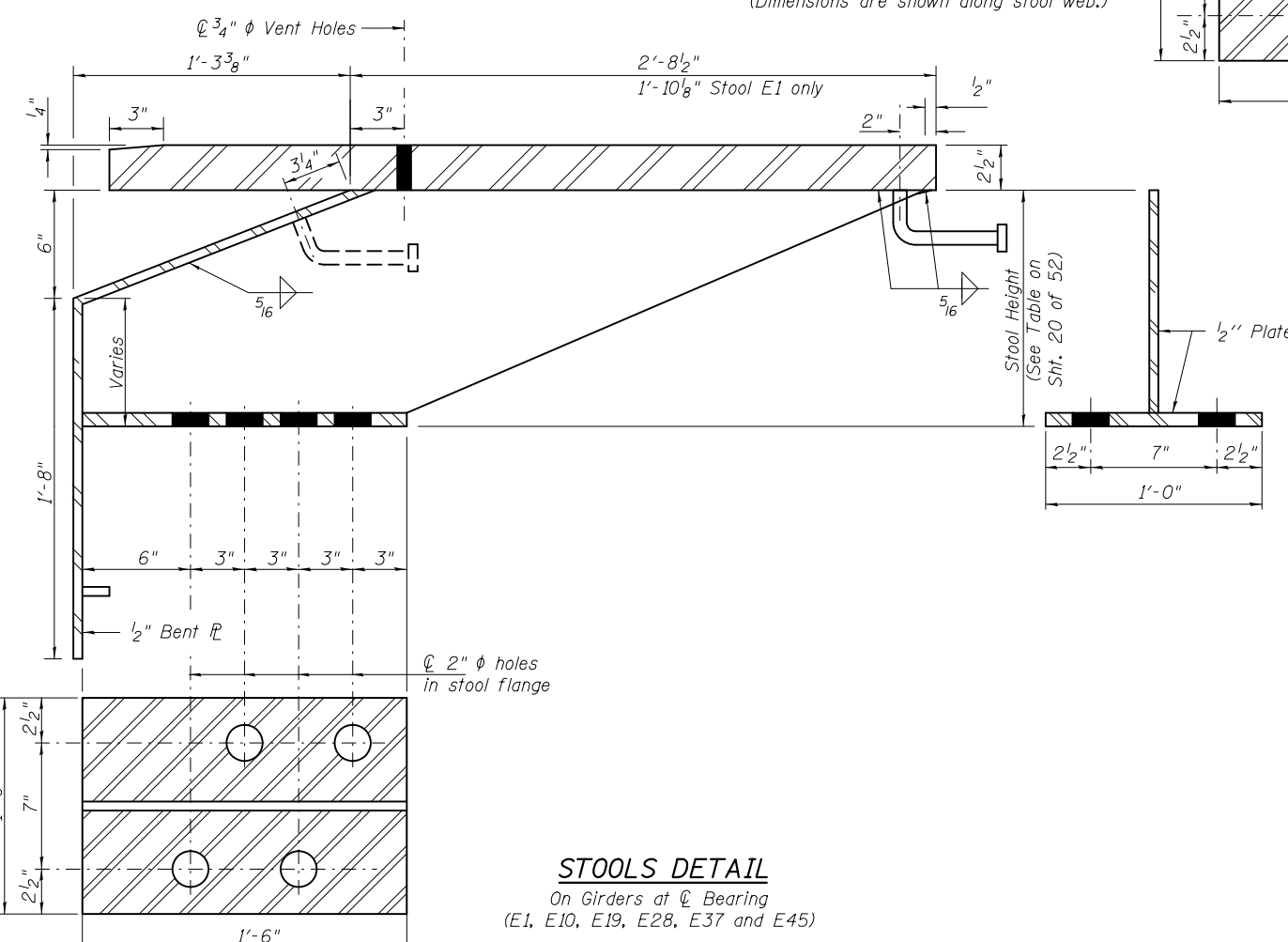
DESIGNED - Josue D. Ortiz-Varela	EXAMINED -  ENGINEER OF BRIDGE DESIGN	DATE - MAY 15, 2017	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EXPANSION JOINT AT WEST ABUTMENT STRUCTURE NO. 026-0022</b>	F.A.I. RTE. 70	SECTION (26-3VB1BR-1)	COUNTY FAYETTE	TOTAL SHEETS 103	SHEET NO. 38	
CHECKED - Nicholas R. Barnett	PASSED -  ENGINEER OF BRIDGES AND STRUCTURES	REVISED			CONTRACT NO. 74518					
DRAWN - R. Laughlin		REVISED			SHEET NO. 21 OF 52 SHEETS					
CHECKED - J.O.V. / N.R.B. / G.R.A.					ILLINOIS FED. AID PROJECT					



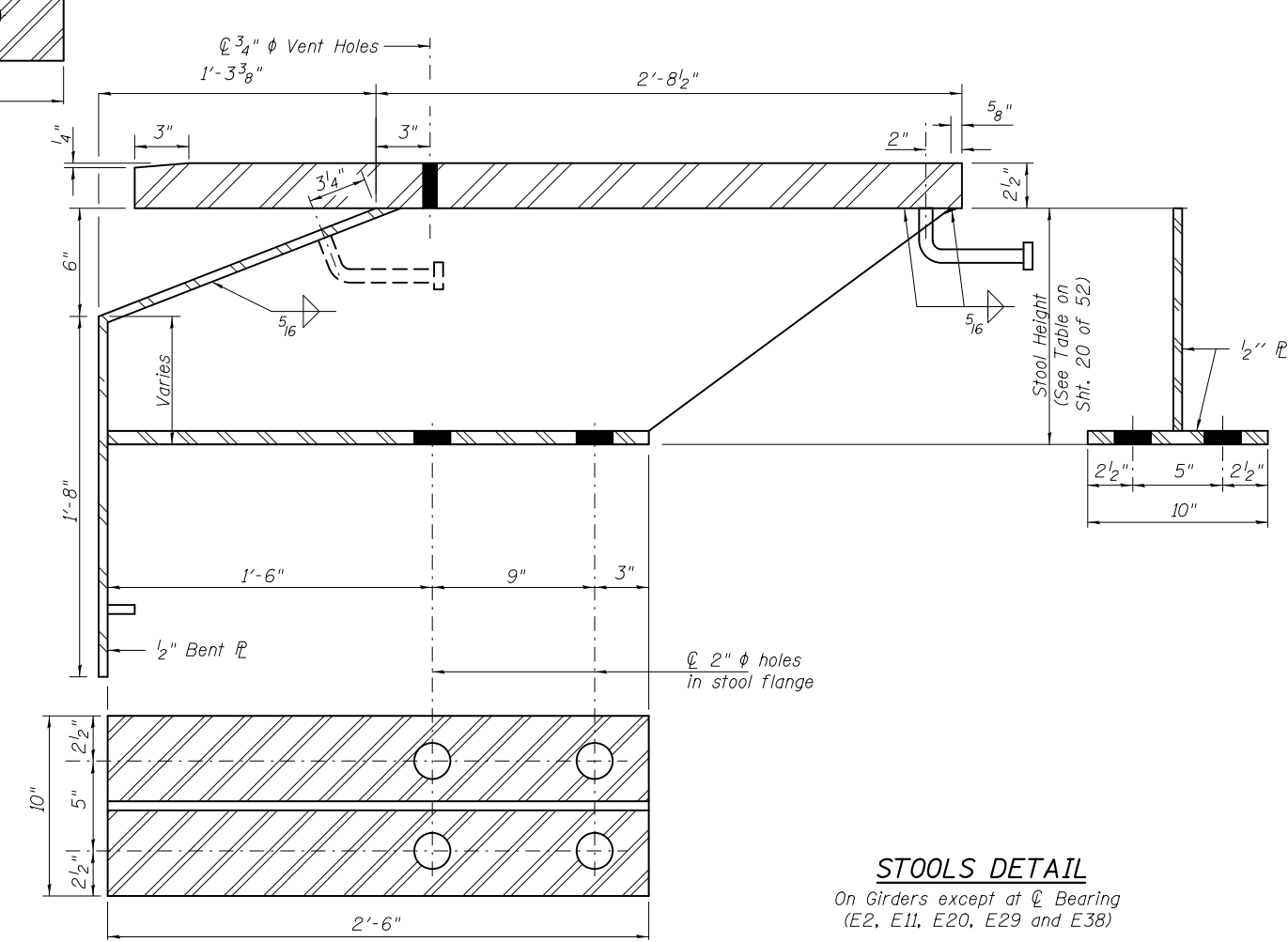
DESIGNED - Josue D. Ortiz-Varela	EXAMINED - <i>Joanne F. [Signature]</i>	DATE - MAY 15, 2017	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXPANSION JOINT AT WEST ABUTMENT STRUCTURE NO. 026-0022	F.A.I. R.T.E. - 70	SECTION - (26-3VB1)BR-1	COUNTY - FAYETTE	TOTAL SHEETS - 103	SHEET NO. - 39	
CHECKED - Nicholas R. Barnett	PASSED - <i>Carl [Signature]</i>	REVISOR			CONTRACT NO. 74518					
DRAWN - R. Laughlin	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR			SHEET NO. 22 OF 52 SHEETS					
CHECKED - J.O.V. / N.R.B. / G.R.A.					ILLINOIS FED. AID PROJECT					



**STOOLS DETAIL**  
At hatch block and on crossframes  
(Dimensions are shown along stool web.)



**STOOLS DETAIL**  
On Girders at  $\nabla$  Bearing  
(E1, E10, E19, E28, E37 and E45)



**STOOLS DETAIL**  
On Girders except at  $\nabla$  Bearing  
(E2, E11, E20, E29 and E38)

SDATES \$TIMES

DESIGNED - Josue D. Ortiz-Varela  
CHECKED - Nicholas R. Barnett  
DRAWN - R. Laughlin  
CHECKED - J.O.V. / N.R.B. / G.R.A.

EXAMINED  
PASSED  
ENGINEER OF BRIDGES AND STRUCTURES

DATE - MAY 15, 2017  
REVISED  
REVISED

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

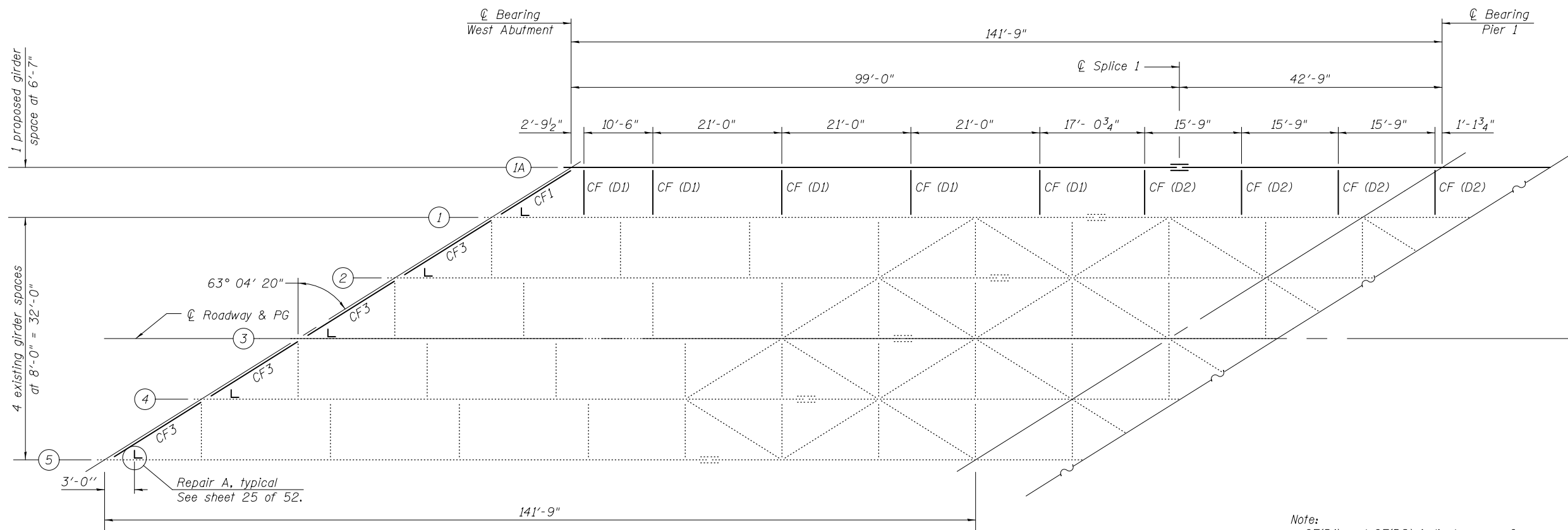
**EXPANSION JOINT AT WEST ABUTMENT**  
**STRUCTURE NO. 026-0022**

SHEET NO. 23 OF 52 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(26-3VB1)BR-1	FAYETTE	103	40
CONTRACT NO. 74518				

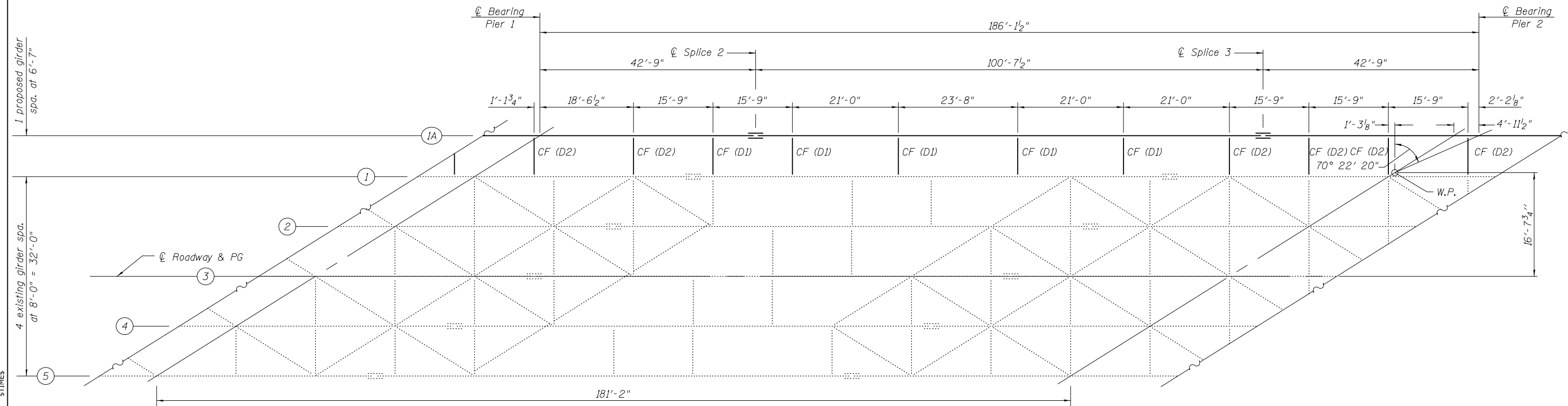
ILLINOIS FED. AID PROJECT





**PLAN - SPAN 1**

Note:  
CF(D1) and CF(D2) indicate cross frame  
Detail 1 or Detail 2. See sheet 26 of 52.



**PLAN - SPAN 2**

DESIGNED - Josue D. Ortiz-Varela  
CHECKED - Nicholas R. Barnett  
DRAWN - R. Laughlin  
CHECKED - J.O.V. / N.R.B. / G.R.A.

EXAMINED  
PASSED  
ENGINEER OF BRIDGE DESIGN  
ENGINEER OF BRIDGES AND STRUCTURES

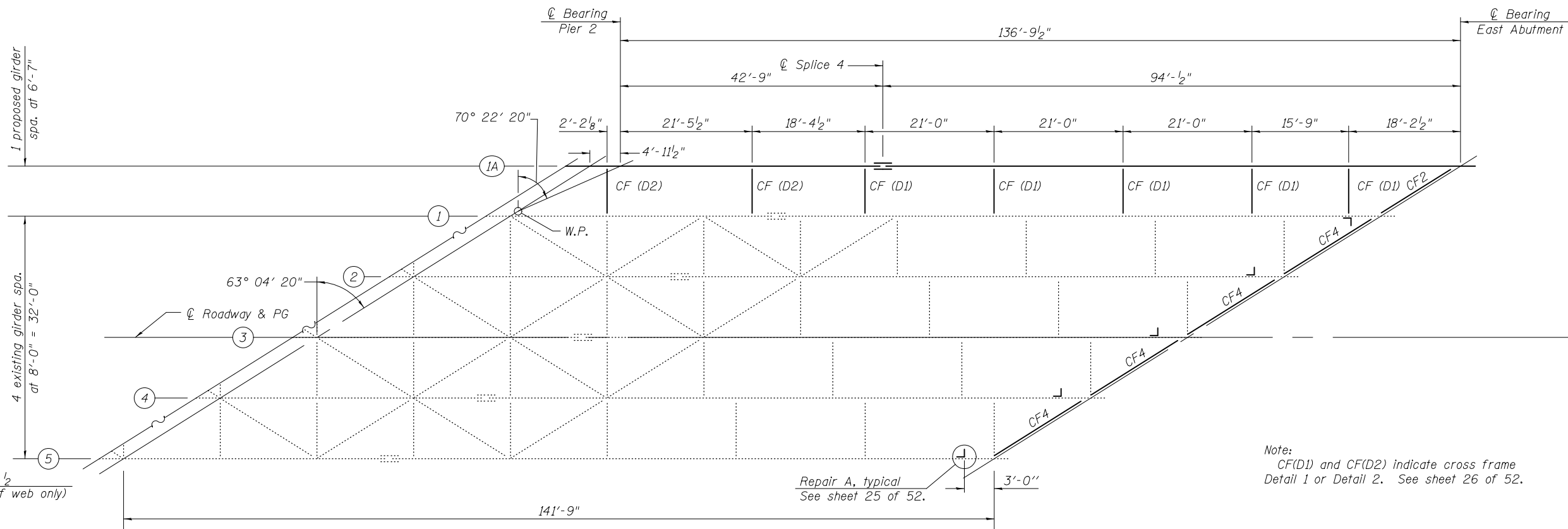
DATE - MAY 15, 2017  
REVISED  
REVISED

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STRUCTURAL STEEL DETAILS  
STRUCTURE NO. 026-0022**

SHEET NO. 24 OF 52 SHEETS

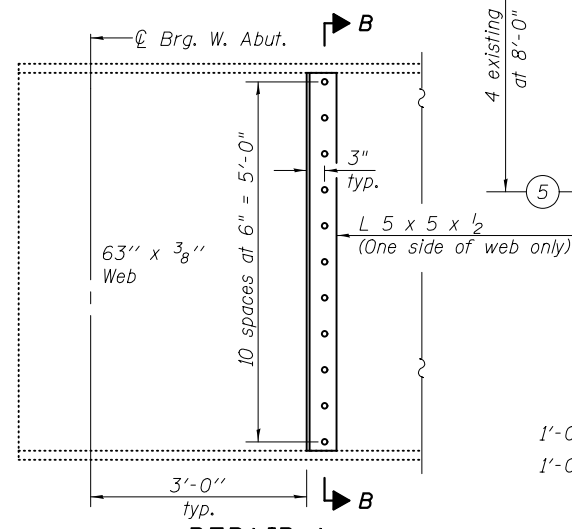
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(26-3VB1)BR-1	FAYETTE	103	41
CONTRACT NO. 74518				
ILLINOIS FED. AID PROJECT				



**PLAN - SPAN 3**

Note:  
CF(D1) and CF(D2) indicate cross frame  
Detail 1 or Detail 2. See sheet 26 of 52.

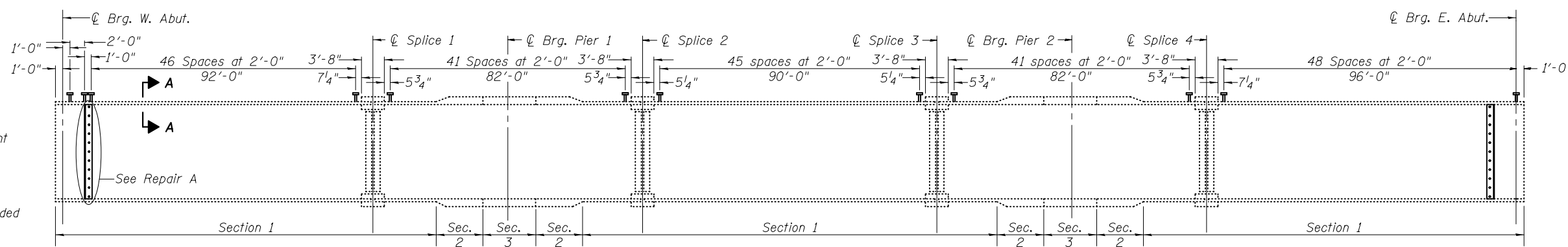
Repair A, typical  
See sheet 25 of 52.



**REPAIR A**

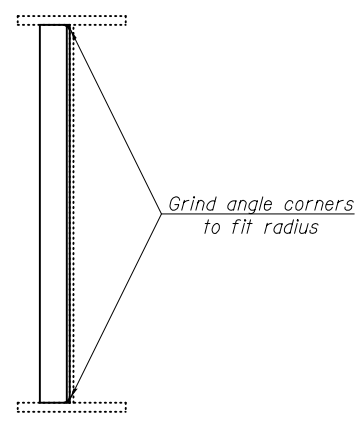
End beam repair at West Abutment shown; East Abutment similar, rotated 180°. Fasteners shall be high strength bolts. Bolts 3/4" φ with 15/16" φ holes, unless otherwise shown. Holes in L 5 x 5 x 1/2 shall be shop drilled. Use holes in angle as template to field drill holes in web. Cost included with Furnishing and Erecting Structural Steel.

(10 required)

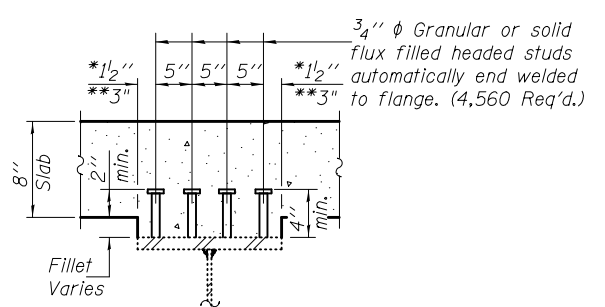


**EXISTING GIRDER ELEVATION**

(Showing proposed shear stud spacing).

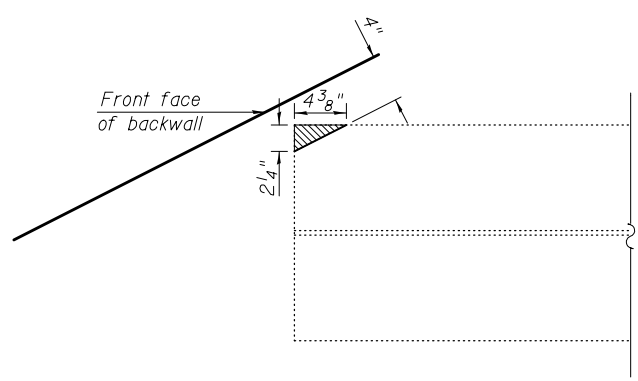


**SECTION B-B**

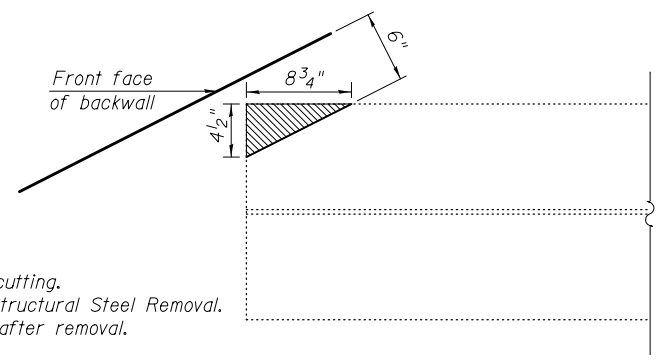


**SECTION A-A**

\* Section 1 & Section 2  
\*\* Section 3



**TYPICAL CLIP DETAIL  
TOP & BOTTOM FLANGE**

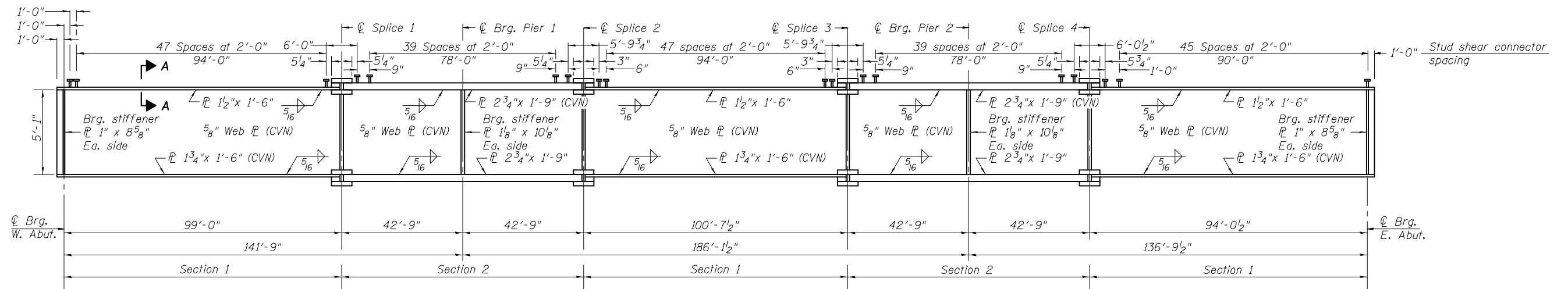


**CLIP DETAIL TOP FLANGE  
AT WEST ABUTMENT**

Hatched area indicates removal.  
Removal to be done by plasma cutting.  
Cost of clipping included with Structural Steel Removal.  
Grind removal surfaces smooth after removal.

SDATES STIMES

DESIGNED - Josue D. Ortiz-Varela	EXAMINED - <i>Joanne F. Schaff</i>	DATE - MAY 15, 2017	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>STRUCTURAL STEEL DETAILS STRUCTURE NO. 026-0022</b>	F.A.I. RTE. - 70	SECTION - (26-3VB1)BR-1	COUNTY - FAYETTE	TOTAL SHEETS - 103	SHEET NO. - 42	
CHECKED - Nicholas R. Barnett	PASSED - <i>Carl Perry</i>	REVISOR -			CONTRACT NO. 74518					
DRAWN - R. Laughlin	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR -			ILLINOIS FED. AID PROJECT					
CHECKED - J.O.V. / N.R.B. / G.R.A.		REVISOR -			SHEET NO. 25 OF 52 SHEETS					



**PROPOSED GIRDER ELEVATION**

**Notes:**

All cross frames shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor rods.

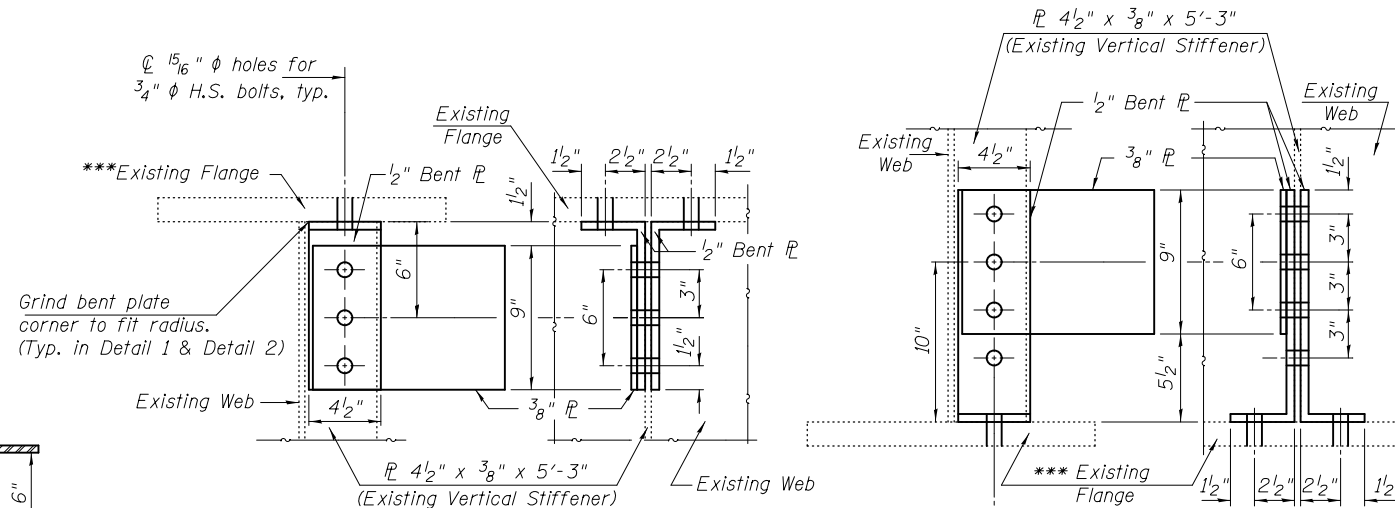
"CVN" denotes Charpy-V-Notch impact energy requirements, zone 2.

Detail 1 and Detail 2 shall be used for the new interior crossframe connections to the existing connecting plate at the end which is tight fit against the flange.

Proposed girder, bearing stiffeners, and all splice plates except filler plates shall be AASHTO M270 Grade 50.

Two hardened washers required for each set of oversized holes.

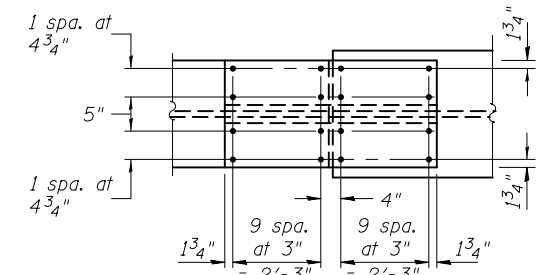
1 5/16"  $\phi$  holes in 1/2" bent plates and 3/8" plates for cross frame connections shall be shop drilled and used as a template for field drilling holes in the existing flange and existing interior stiffener. Cost included with Furnishing and Erecting Structural Steel.



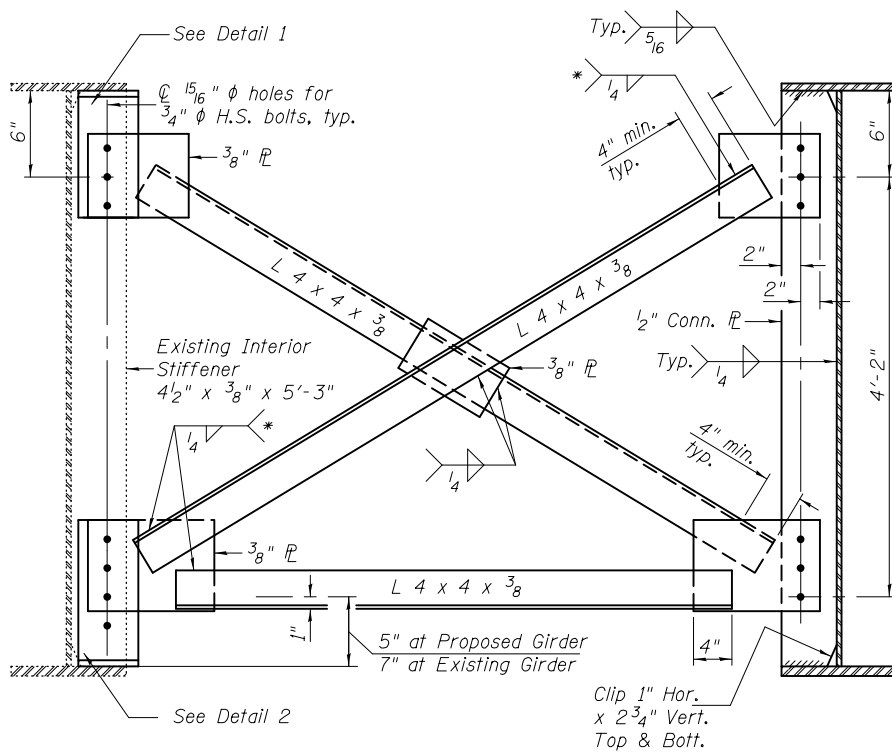
**DETAIL 1**  
Top Flange  
(10 Required)

**DETAIL 2**  
Bottom Flange  
(15 Required)

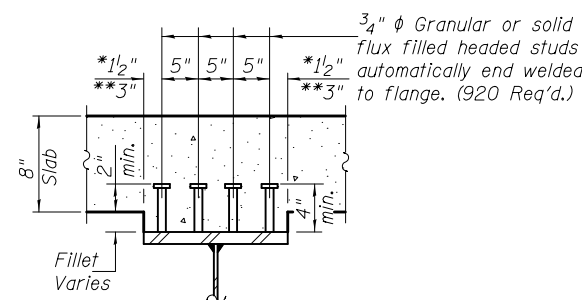
\*\*\* Existing flange thickness varies from 1 1/2" to 2 3/4". Contractor is to verify thickness of existing flange in the field prior to drilling holes.



**PLAN - TOP & BOTT. FLANGES**

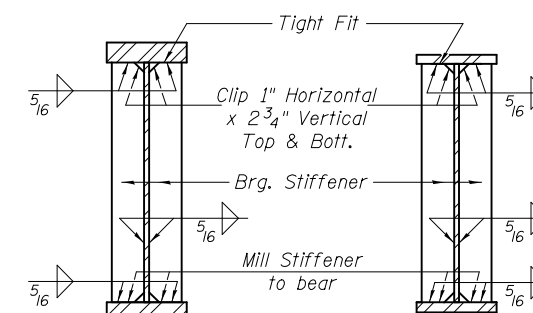


**CROSS FRAME, CF**  
(25 Required)



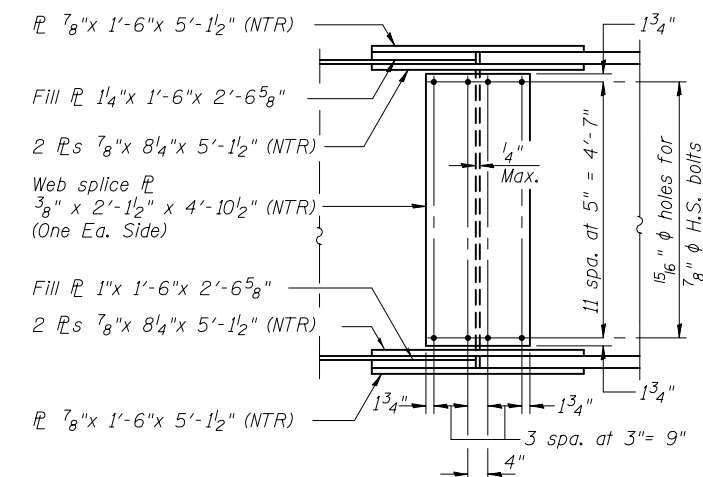
**SECTION A-A**

\* Section 1  
\*\* Section 2



**SECTION AT PIER**

**SECTION AT ABUTMENT**





**ELEVATION**  
**FIELD SPLICE DETAIL**  
(4 Required)

SDATES STIMES

\*Fillet weld angles along 3 sides on one face of gusset plate.

DESIGNED - Josue D. Ortiz-Varela	EXAMINED -	DATE - MAY 15, 2017
CHECKED - Nicholas R. Barnett	PASSED -	REVISOR -
DRAWN - R. Laughlin		REVISOR -
CHECKED - J.O.V. / N.R.B. / G.R.A.		REVISOR -

  
 ENGINEER OF BRIDGE DESIGN  
  
 ENGINEER OF BRIDGES AND STRUCTURES

DATE - MAY 15, 2017
REVISOR -
REVISOR -

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

**STRUCTURAL STEEL DETAILS**  
**STRUCTURE NO. 026-0022**

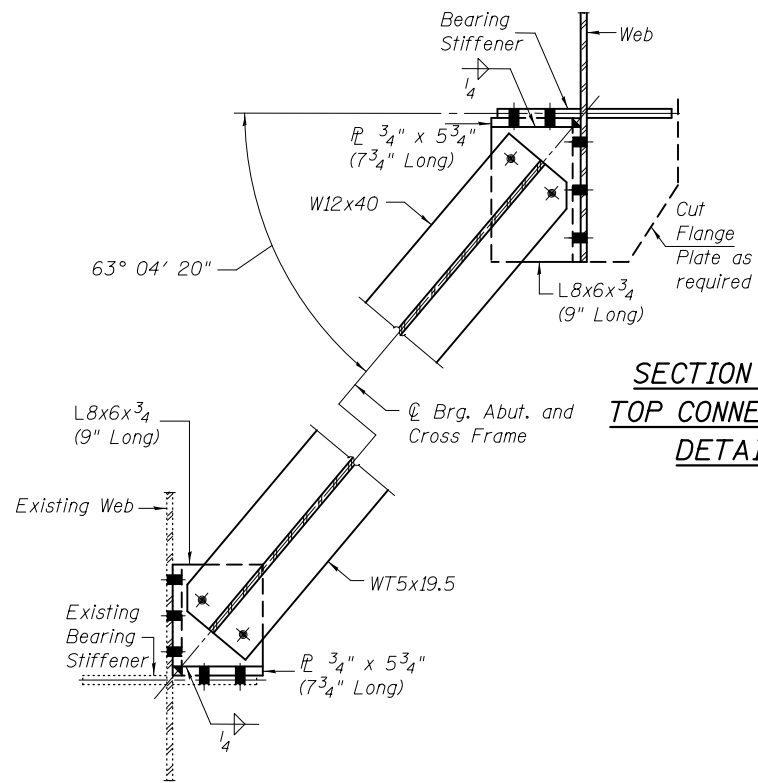
SHEET NO. 26 OF 52 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(26-3VB1)BR-1	FAYETTE	103	43
CONTRACT NO. 74518				
ILLINOIS FED. AID PROJECT				

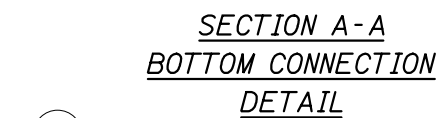
**BOLT LOCATION**

(End Diaphragm; West Abutment)

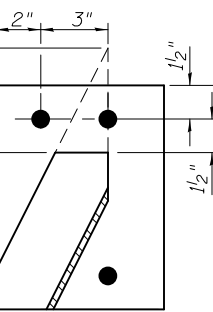
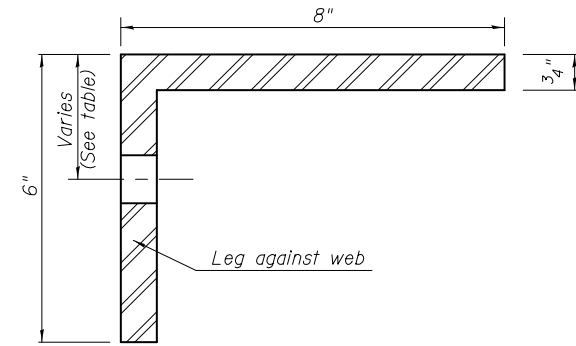
Location	Girder #					
	1A	1	2	3	4	5
South (Top)	3 1/2"	3 1/2"	4 1/4"	3 3/4"	2 1/2"	-
South (Bottom)	3 1/2"	3 1/2"	4 1/4"	3 3/4"	2 1/2"	-
North (Top)	-	2 1/2"	3 3/8"	3 7/8"	4 8/8"	3 1/2"
North (Bottom)	-	2 1/2"	3 3/8"	3 7/8"	4 8/8"	3 1/2"



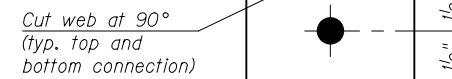
**SECTION B-B  
TOP CONNECTION  
DETAIL**



**SECTION A-A  
BOTTOM CONNECTION  
DETAIL**

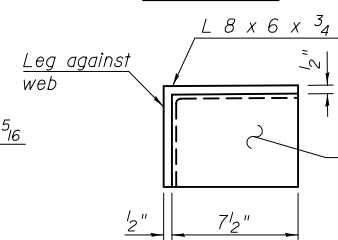


**DETAIL A**

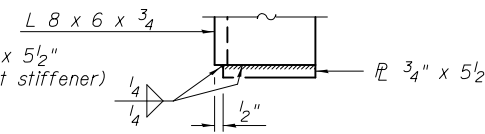


Cut web at 90°  
(typ. top and bottom connection)

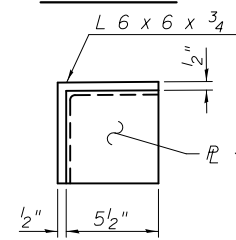
**DETAIL B**



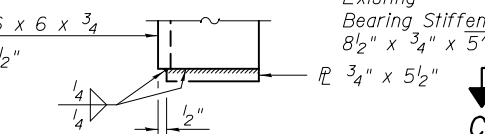
**DETAIL C**



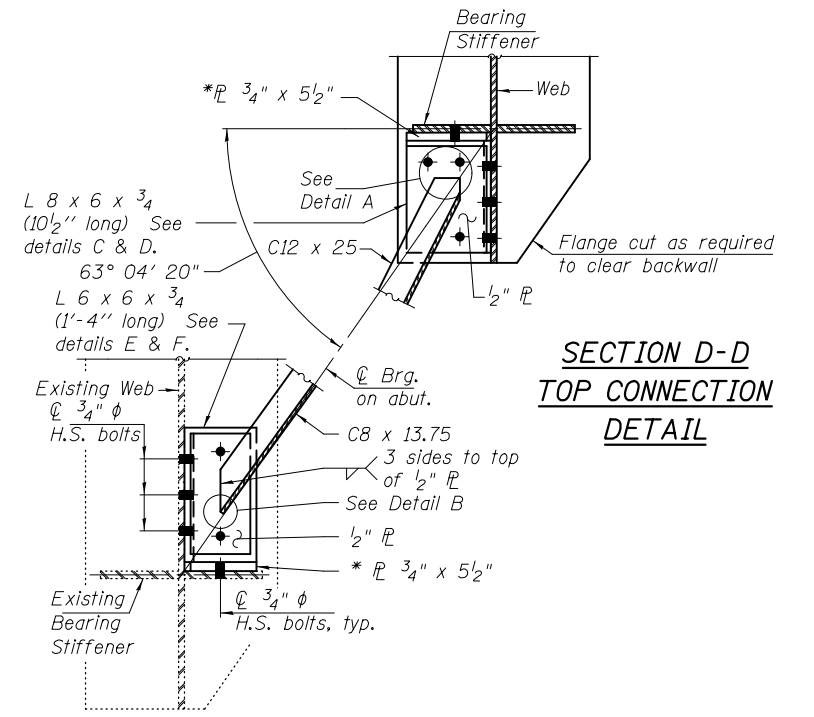
**DETAIL D**



**DETAIL E**

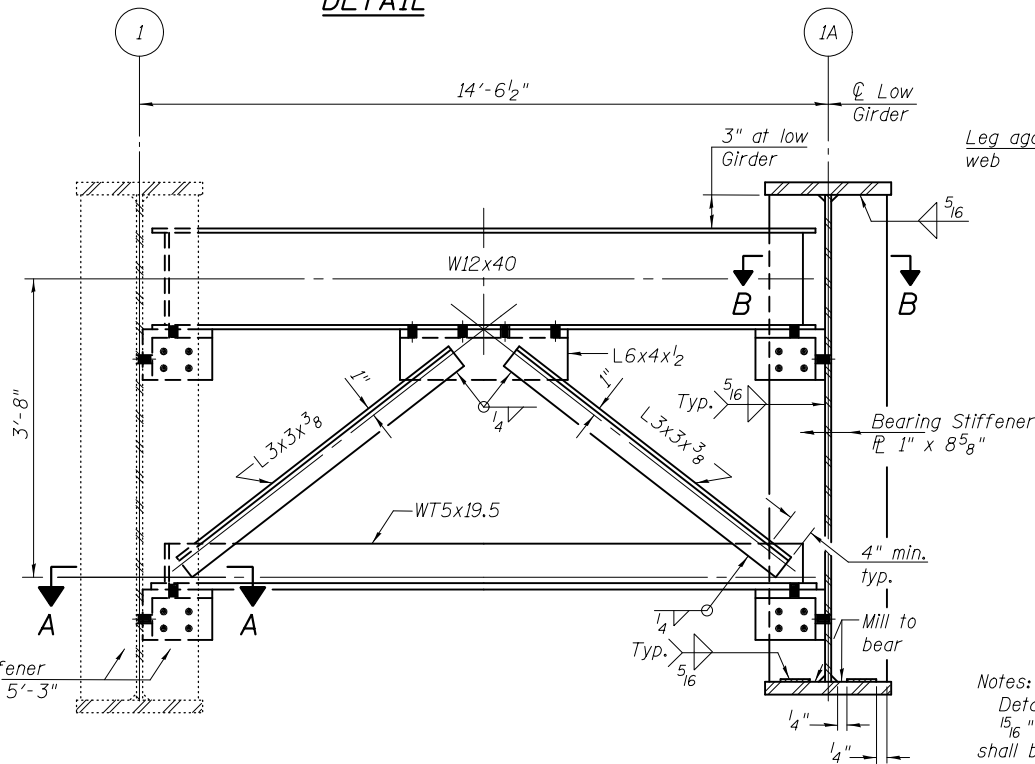


**DETAIL F**



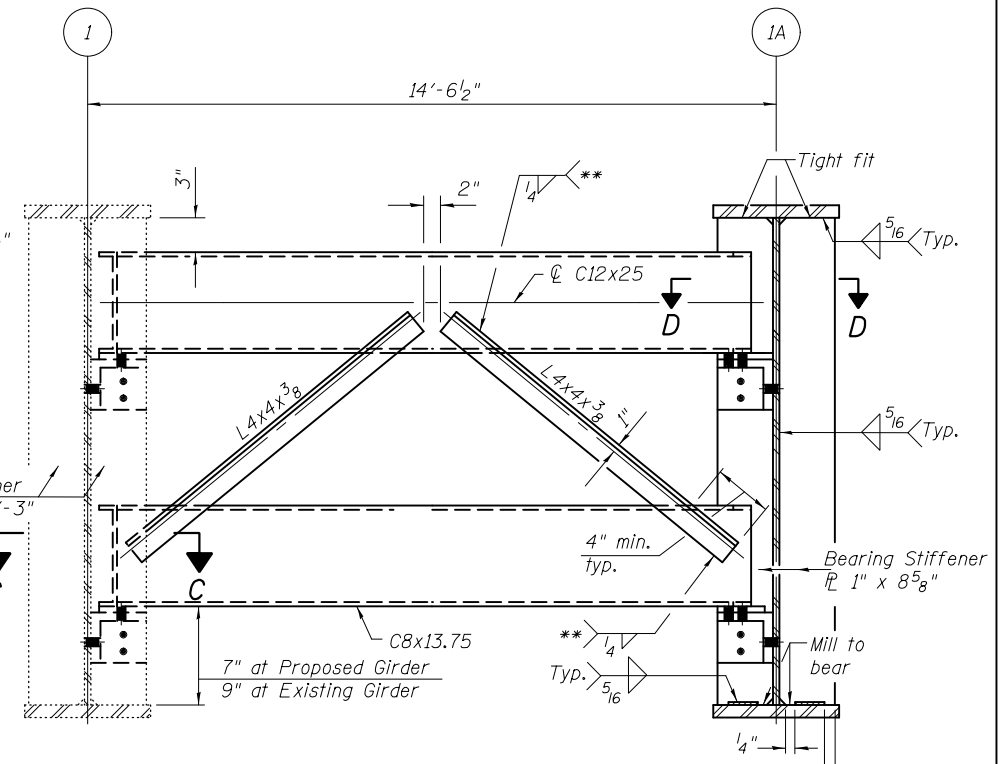
**SECTION D-D  
TOP CONNECTION  
DETAIL**

**SECTION C-C  
BOTTOM CONNECTION  
DETAIL**



**CROSS FRAME CF1  
(1 Required)**

Notes:  
Detail 1 5/16" φ holes for all 3/4" φ bolts.  
1 5/16" φ holes in angles and 3/4" plates for cross frame connections shall be shop drilled and used as a template for field drilling holes in the existing web and bearing stiffener. Cost included with Furnishing and Erecting Structural Steel. See sheet 23 of 52 for bolt spacing details.  
Two hardened washers required for each set of oversized holes.  
Place diaphragm with channel flanges outward from abutment backwall.  
Bearing Stiffeners shall be welded to flanges when used as cross frame Connection Plates.



**CROSS FRAME CF2  
(1 Required)**

\* Weld 3/4" x 5 1/2" plate to seat as shown in Details C thru F.  
\*\* 3 sides, to back face of channel only, typ.

SDATES  
STIMES

DESIGNED - Josue D. Ortiz-Varela  
CHECKED - Nicholas R. Barnett  
DRAWN - R. Laughlin  
CHECKED - J.O.V. / N.R.B. / G.R.A.

EXAMINED  
PASSED  
ENGINEER OF BRIDGES AND STRUCTURES

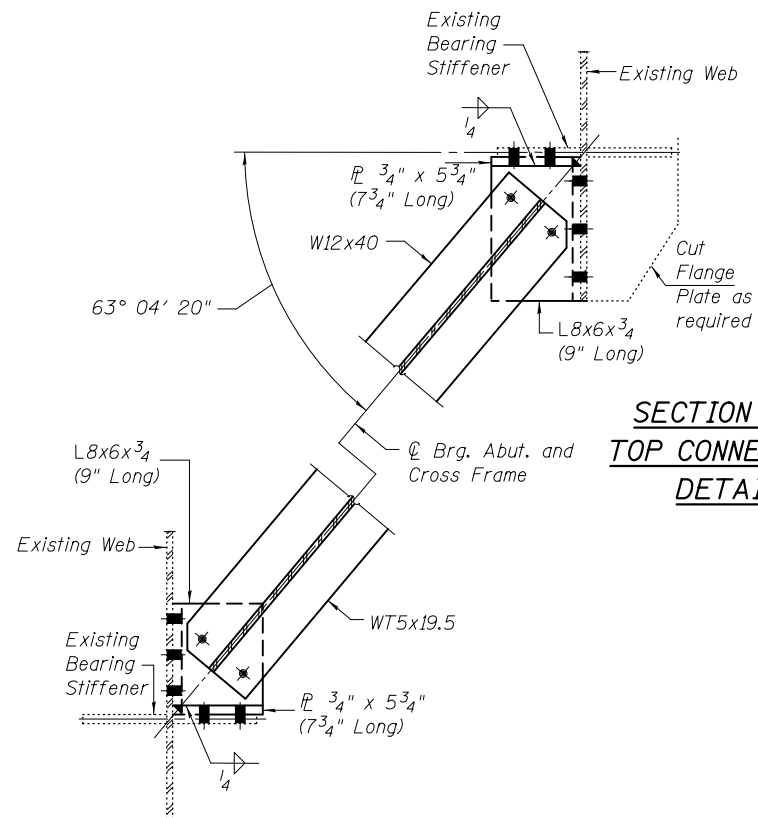
DATE - MAY 15, 2017  
REVISED  
REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

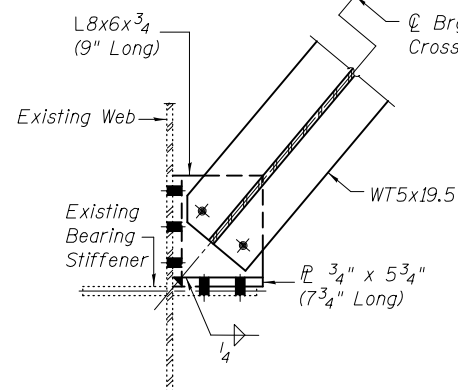
STRUCTURAL STEEL DETAILS  
STRUCTURE NO. 026-0022

SHEET NO. 27 OF 52 SHEETS

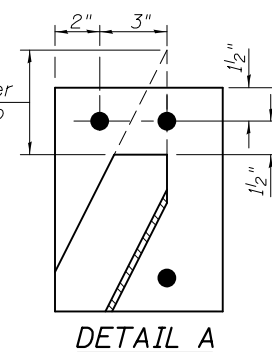
F.A.I. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(26-3VB1)BR-1	FAYETTE	103	44
CONTRACT NO. 74518				
ILLINOIS FED. AID PROJECT				



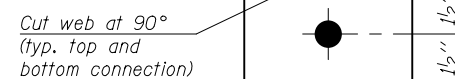
**SECTION B-B  
TOP CONNECTION  
DETAIL**



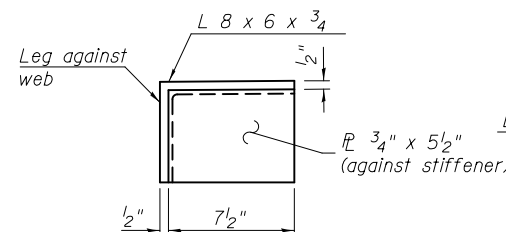
**SECTION A-A  
BOTTOM CONNECTION  
DETAIL**



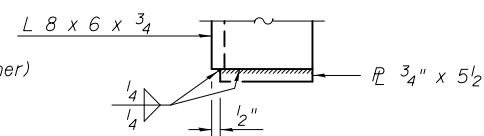
**DETAIL A**



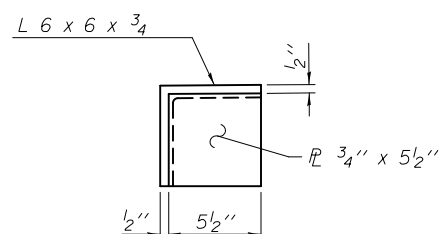
**DETAIL B**



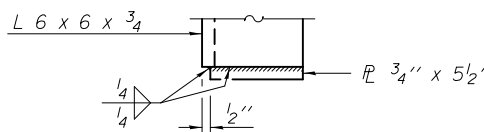
**DETAIL C**



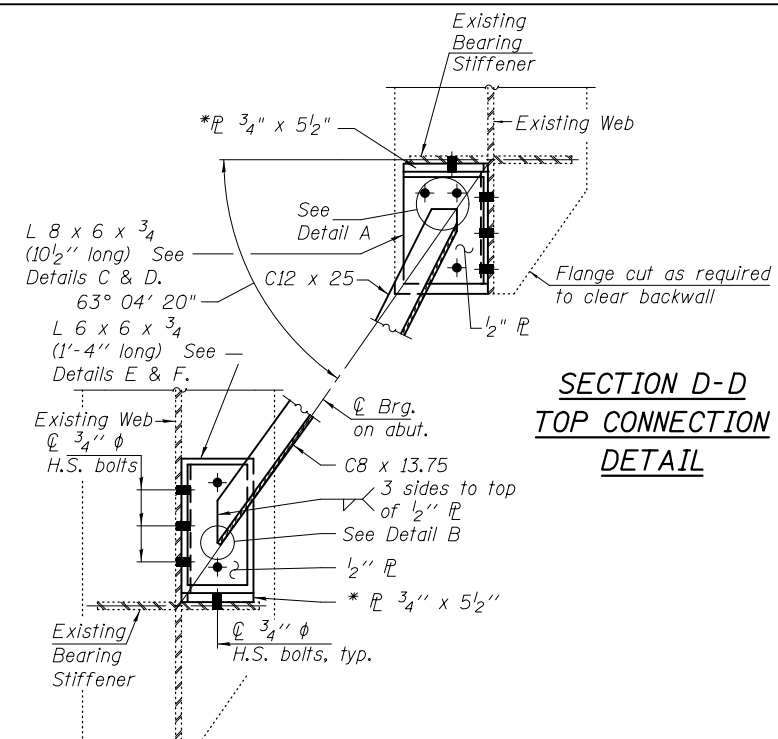
**DETAIL D**



**DETAIL E**

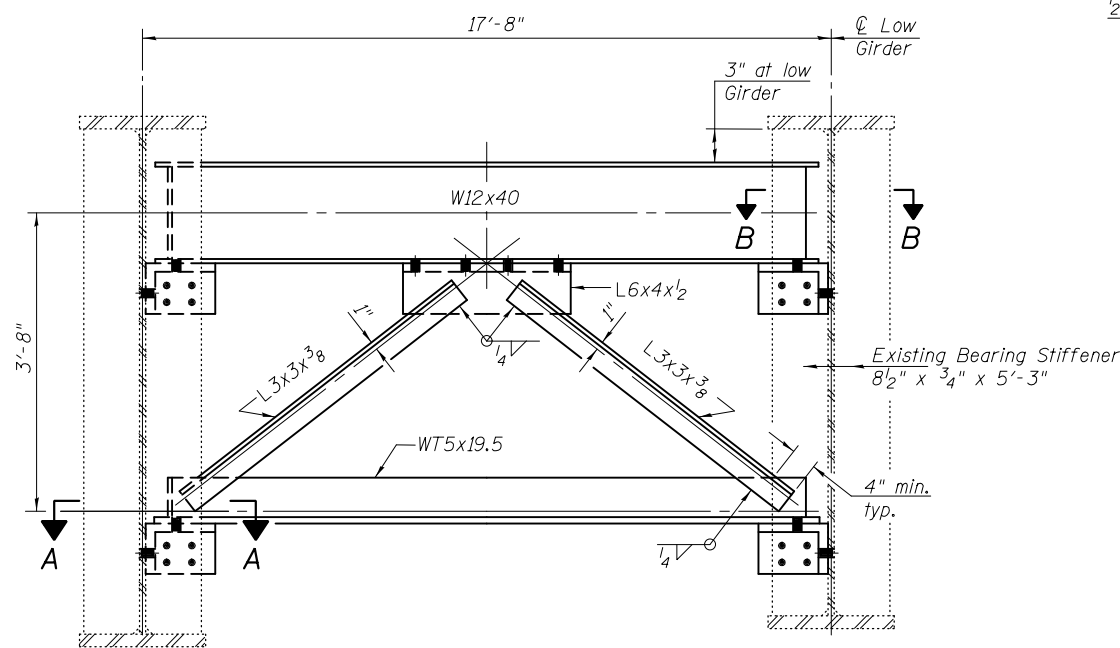


**DETAIL F**



**SECTION D-D  
TOP CONNECTION  
DETAIL**

**SECTION C-C  
BOTTOM CONNECTION  
DETAIL**

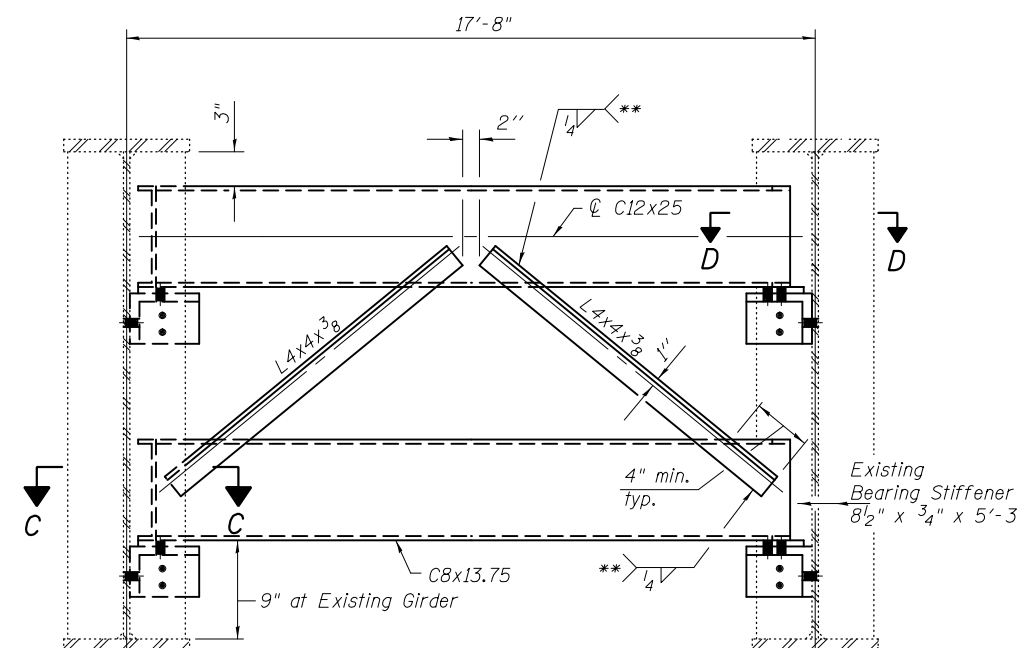


**CROSS FRAME CF3  
(4 Required)**

**Notes:**  
 Detail 15/16"  $\phi$  holes for all 3/4"  $\phi$  bolts  
 15/16"  $\phi$  holes in angles and 3/4" plates for cross frame connections shall be shop drilled and used as a template for field drilling holes in the existing web and bearing stiffener. Cost included with Furnishing and Erecting Structural Steel. See sheet 23 of 52 for bolt spacing details.  
 Two hardened washers required for each set of oversized holes.  
 Place diaphragm with channel flanges outward from abutment backwall.  
 Bearing Stiffeners shall be welded to flanges when used as cross frame Connection Plates.

\* Weld 3/4" x 5 1/2" plate to seat as shown in Details C thru F.

\*\* 3 sides, to back face of channel only, typ.



**CROSS FRAME CF4  
(4 Required)**

SDATES - 5TIMES

DESIGNED - Josue D. Ortiz-Varela  
 CHECKED - Nicholas R. Barnett  
 DRAWN - R. Laughlin  
 CHECKED - J.O.V. / N.R.B. / G.R.A.

EXAMINED  
 PASSED  
 ENGINEER OF BRIDGES AND STRUCTURES

DATE - MAY 15, 2017  
 REVISED  
 REVISED

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**STRUCTURAL STEEL DETAILS  
 STRUCTURE NO. 026-0022**

SHEET NO. 28 OF 52 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(26-3VB1)BR-1	FAYETTE	103	45
CONTRACT NO. 74518				
ILLINOIS FED. AID PROJECT				

EXTERIOR GIRDER MOMENT TABLE						
		0.4 Sp 1	Pier 1	0.5 Sp 2	Pier 2	0.6 Sp 3
$I_s$	(in <sup>4</sup> )	68994	129245	68994	129245	68994
$I_c(n)$	(in <sup>4</sup> )	126359	195785	126359	195785	126359
$I_c(3n)$	(in <sup>4</sup> )	95107	156903	95107	156903	95107
$S_s$	(in <sup>3</sup> )	2243	3887	2243	3887	2243
$S_c(n)$	(in <sup>3</sup> )	2736	4391	2736	4391	2736
$S_c(3n)$	(in <sup>3</sup> )	2517	4133	2517	4133	2517
$\phi$	(k/')	1.209	1.443	1.209	1.443	1.209
$M\phi$	(k)	1383.9	4041.8	1483.8	3889.0	1244.6
$s\phi$	(k/')	0.55	0.55	0.55	0.55	0.55
$M_s\phi$	(k)	650.8	1688.5	725.3	1624.3	585.3
$M_L$	(k)	1210.4	1884.0	1278.7	1850.3	1164.7
$M_I$	(k)	231.2	359.8	244.2	353.2	222.5
$\phi_3 [M_L + I]$	(k)	2402.7	3739.7	2538.2	3672.5	2312.0
$M_a$	(k)	5768.6	12311.0	6171.4	11942.0	5384.5
$M_u$	(k)					
$f_s \phi$ non-comp	(ksi)	7.4	12.5	7.9	12.0	6.7
$f_s \phi$ (comp)	(ksi)	3.1	4.9	3.5	4.7	2.8
$f_s \phi_3 [M_L + M_I]$	(ksi)	10.5	10.2	11.1	10.0	10.1
$f_s$ (Overload)	(ksi)	21.0	27.6	22.5	26.8	19.6
$f_s$ (Total)	(ksi)	27.4	35.9	29.3	34.8	25.5
VR	(k)	63.5	79.2	59.5	79.6	63.5

EXTERIOR GIRDER REACTION TABLE					
		W. Abut.	Pier 1	Pier 2	E. Abut.
$R\phi$	(k)	85.8	348.4	341.6	81.5
$R_L$	(k)	44.7	101.7	100.7	44.1
$R_I$	(k)	8.5	19.4	19.2	8.4
$R_{Total}$	(k)	139.0	469.5	461.5	134.0

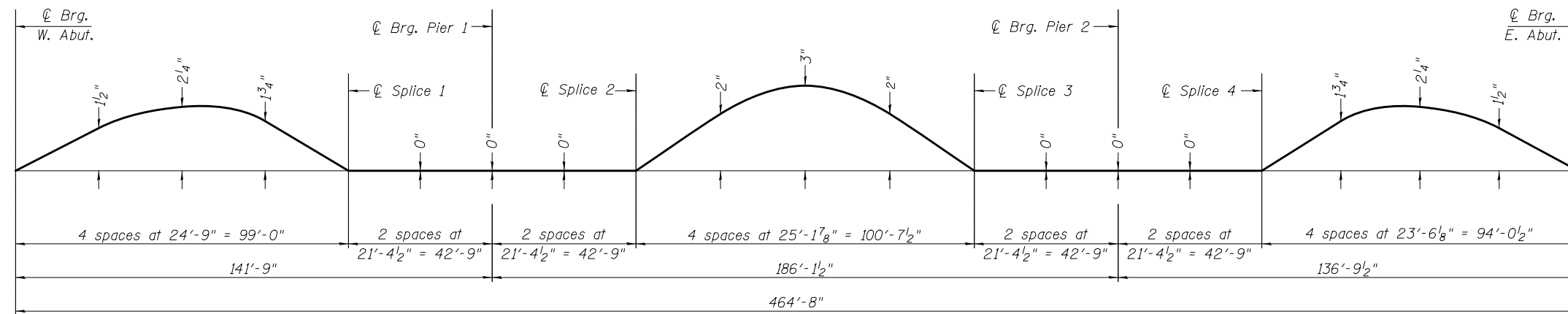
\* Compact section  
 \*\* Braced non-compact and partially braced section

$I_s, S_s$ : Non-composite moment of inertia and section modulus of the steel section used for computing  $f_s$  (Total and Overload) due to non-composite dead loads (in<sup>4</sup> and in<sup>3</sup>).  
 $I_c(n), S_c(n)$ : Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing  $f_s$  (Total and Overload) due to short-term composite live loads (in<sup>4</sup> and in<sup>3</sup>).  
 $I_c(3n), S_c(3n)$ : Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing  $f_s$  (Total and Overload) due to long-term composite (superimposed) dead loads (in<sup>4</sup> and in<sup>3</sup>).  
 $\phi$ : Un-factored non-composite dead load (kips/ft.).  
 $M\phi$ : Un-factored moment due to non-composite dead load (kip-ft.).  
 $s\phi$ : Un-factored long-term composite (superimposed) dead load (kips/ft.).  
 $M_s\phi$ : Un-factored moment due to long-term composite (superimposed) dead load (kip-ft.).  
 $M_L$ : Un-factored live load moment (kip-ft.).  
 $M_I$ : Un-factored moment due to impact (kip-ft.).  
 $M_a$ : Factored design moment (kip-ft.).  
 $1.3 [M\phi + M_s\phi + \frac{5}{3} (M_L + M_I)]$   
 $M_u$ : Compact composite moment capacity according to AASHTO LFD 10.50.1.1 or compact non-composite moment capacity according to AASHTO LFD 10.48.1 (kip-ft.).  
 $f_s$  (Overload): Sum of stresses as computed from the moments below (ksi).  
 $M\phi + M_s\phi + \frac{5}{3} (M_L + M_I)$   
 $f_s$  (Total): Sum of stresses as computed from the moments below on non-compact section (ksi).  
 $1.3 [M\phi + M_s\phi + \frac{5}{3} (M_L + M_I)]$   
 VR: Maximum  $\phi$  + impact shear range within the composite portion of the span for stud shear connector design (kips).

\*\*\* TOP OF WEB ELEVATIONS

	℄ Brg. W. Abut.	℄ Splice 1	℄ Brg. Pier 1	℄ Splice 2	℄ Splice 3	℄ Brg. Pier 2	℄ Splice 4	℄ Brg. E. Abut.
Girder 1A	557.08	557.00	556.91	556.81	556.31	555.98	555.63	554.87

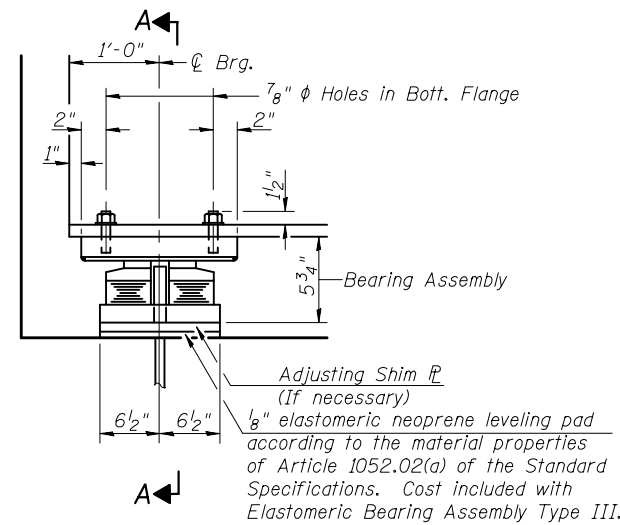
\*\*\* For fabrication only.



CAMBER DIAGRAM  
 (Girder 1A)

SDATES \$TIMES

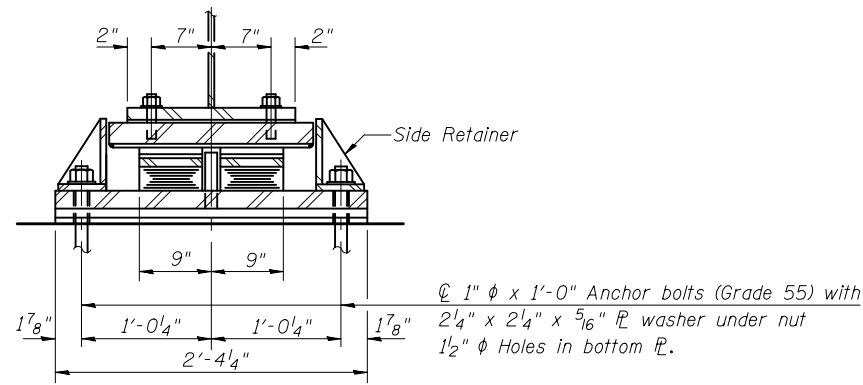
DESIGNED - Josue D. Ortiz-Varela	EXAMINED - <i>Joanne F. J. [Signature]</i>	DATE - MAY 15, 2017	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CAMBER DIAGRAM AND MOMENT TABLE STRUCTURE NO. 026-0022	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
CHECKED - Nicholas R. Barnett	PASSED - <i>Carl [Signature]</i>	REVIS			70	(26-3VB1BR-1)	FAYETTE	103	46	
DRAWN - R. Laughlin	ENGINEER OF BRIDGES AND STRUCTURES	REVIS			CONTRACT NO. 74518					
CHECKED - J.O.V. / N.R.B. / G.R.A.	ENGINEER OF BRIDGES AND STRUCTURES	REVIS			SHEET NO. 29 OF 52 SHEETS					



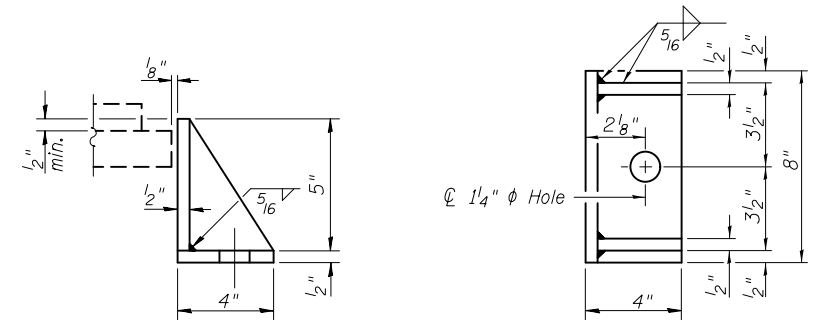
**ELEVATION AT ABUT.**

**TYPE III ELASTOMERIC EXP. BRG.**

(1 required at West Abutment)

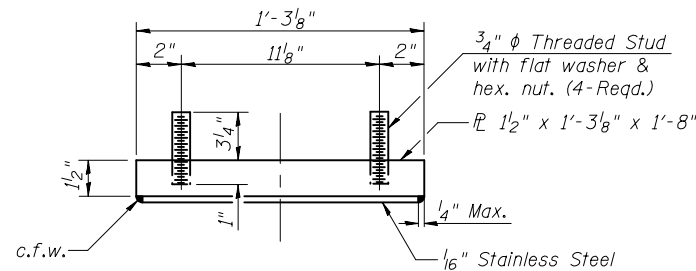


**SECTION A-A**

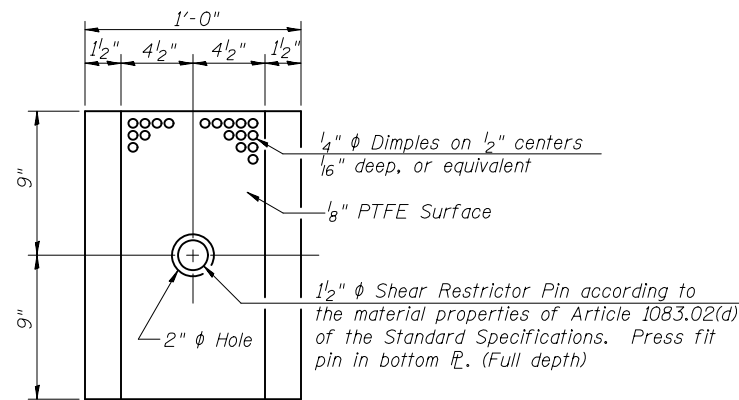


**SIDE RETAINER**

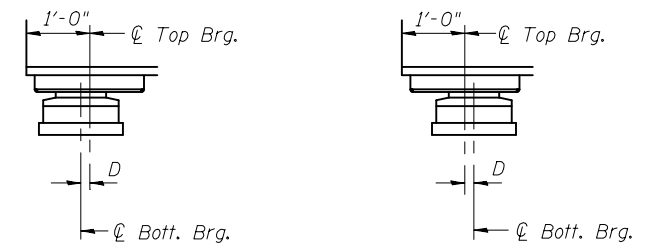
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



**TOP BEARING ASSEMBLY**



**PLAN-PTFE ELASTOMERIC BRG.**



**BELOW 50° F.**

D = 1/8" per each 100' of expansion for every 15° temp. change from the normal temp. of 50° F.

**ABOVE 50° F.**

**EXPANSION BEARING ORIENTATION**

The above diagrams are for informational purposes only to show the amount of expected offset "D" for the current temperature in the field.

**Notes:**

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Side retainers and other steel members required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type III.

The 1/8" PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

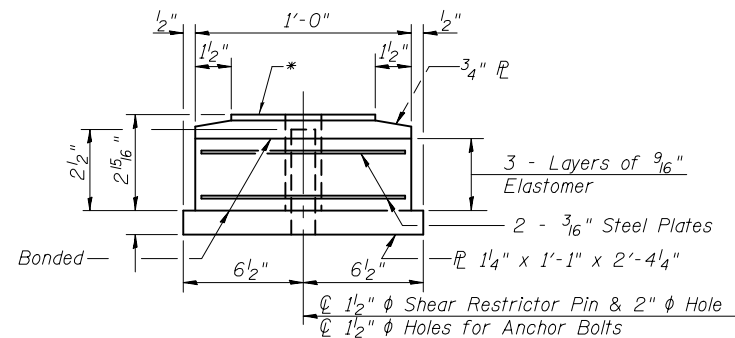
Bonding of 1/8" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

Beams shall be braced for stability during erection and remain braced until deck is poured and cured.

Anchor bolts and side retainers at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.

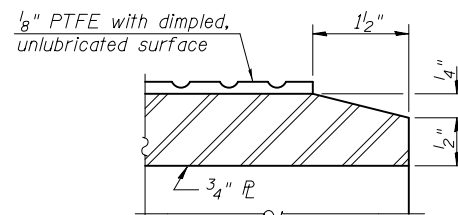
The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M 270 Grade 50.

Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.



**BOTTOM BEARING ASSEMBLY**

\*1/8" PTFE dimpled, unlubricated



**SECTION THRU PTFE**

SDATES \$TIMES

I-2E-3

12-2-15

DESIGNED - Josue D. Ortiz-Varela	EXAMINED
CHECKED - Nicholas R. Barnett	PASSED
DRAWN - R. Laughlin	
CHECKED - J.O.V. / N.R.B. / G.R.A.	

DATE - MAY 15, 2017  
 ENGINEER OF BRIDGE DESIGN  
 ENGINEER OF BRIDGES AND STRUCTURES

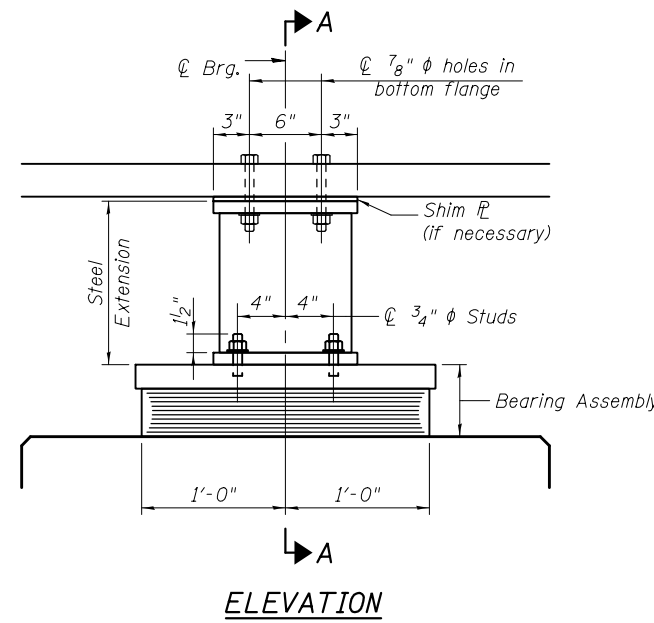
REVIS	
REVIS	

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

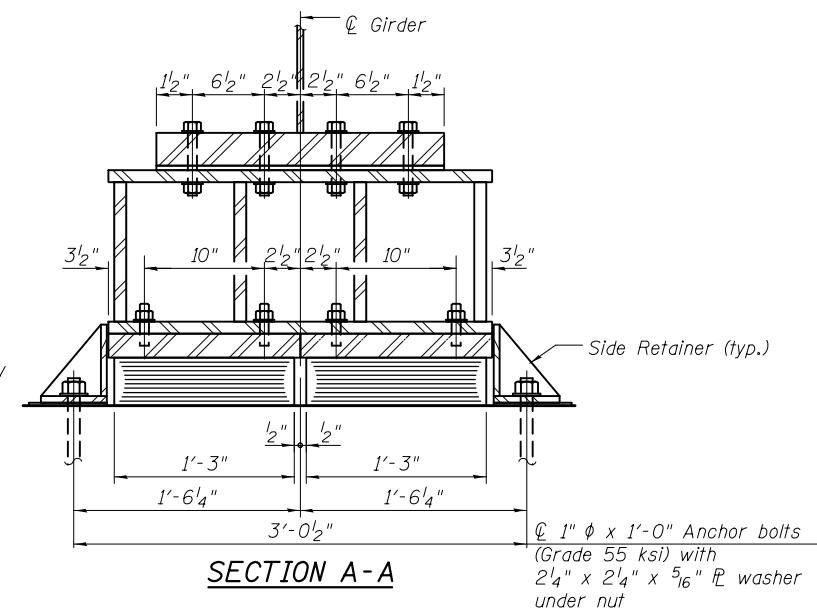
WEST ABUTMENT BEARING DETAILS  
 STRUCTURE NO. 026-0022

SHEET NO. 30 OF 52 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(26-3VB1BR-1)	FAYETTE	103	47
CONTRACT NO. 74518				
ILLINOIS FED. AID PROJECT				



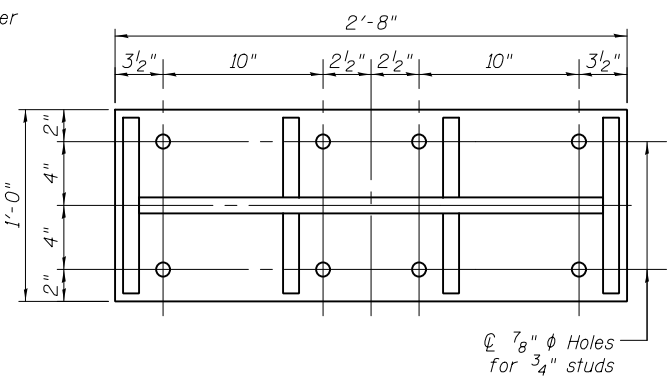
**ELEVATION**



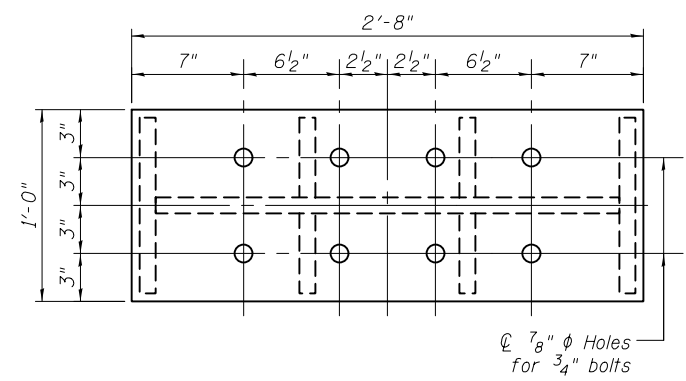
**SECTION A-A**

**TYPE I ELASTOMERIC EXP. BRG.**  
(2 required at Pier 1)

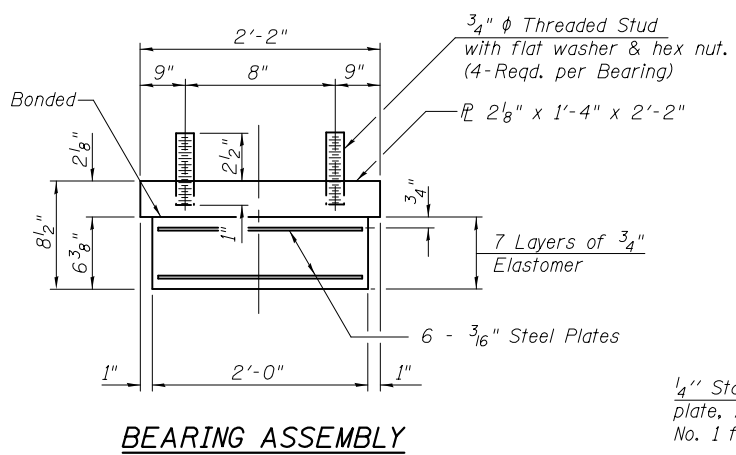
Notes:  
 Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.  
 Side retainers and other steel members required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.  
 Beams shall be braced for stability during erection and remain braced until deck is poured and cured.  
 Anchor bolts and side retainers at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.  
 The structural steel plates of the Bearing Assembly including steel extension shall conform to the requirements of AASHTO M 270 Grade 50.  
 Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.  
 Steel extensions included with the cost of Furnishing and Erecting Structural Steel.



**PLAN - BOTTOM**

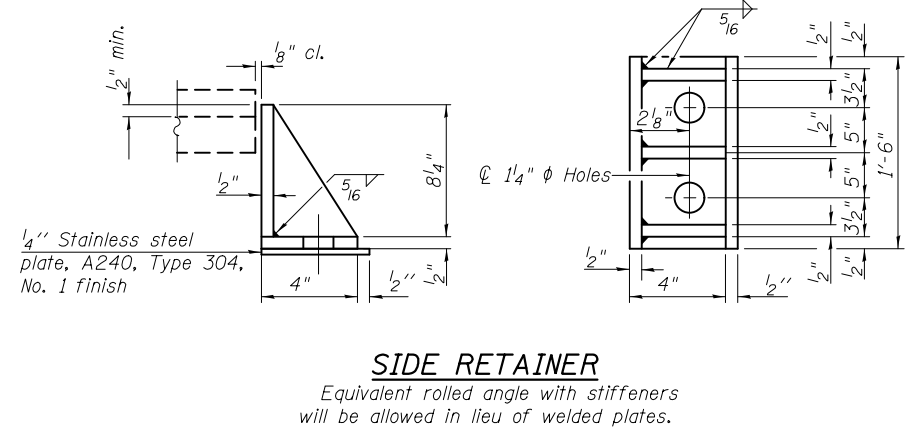


**PLAN - TOP**

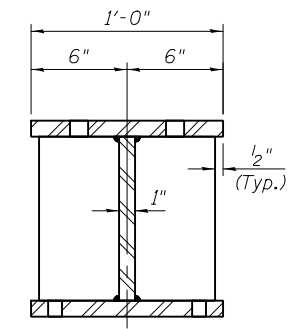


**BEARING ASSEMBLY**

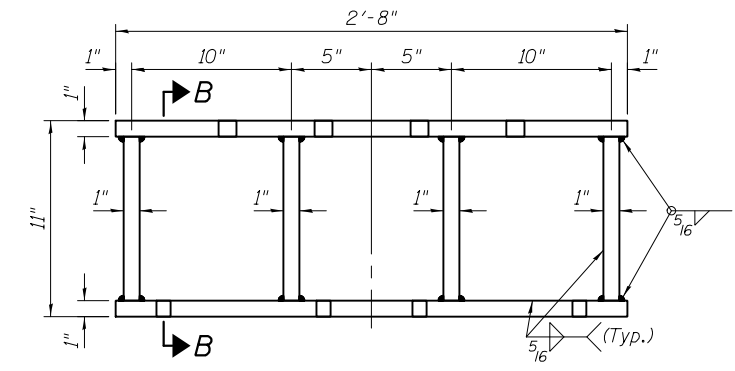
Note:  
 Shim plates shall not be placed under Bearing Assembly.



**SIDE RETAINER**



**SECTION B-B**



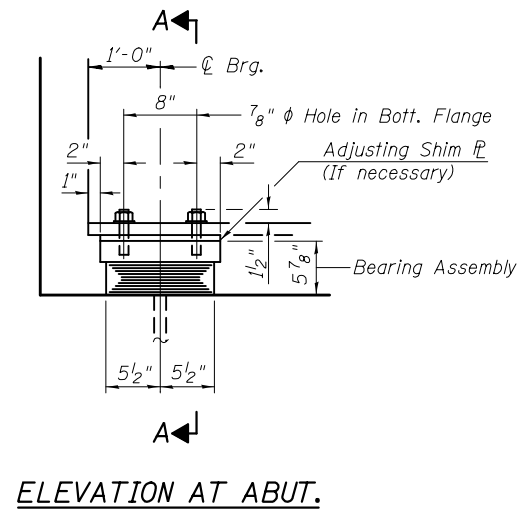
**ELEVATION**

**STEEL EXTENSION**

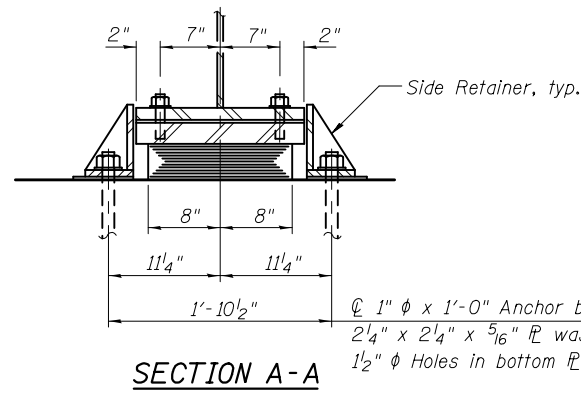
SDATES \$TIMES

DESIGNED - Josue D. Ortiz-Varela	EXAMINED - <i>Joanne F. Schaff</i> ENGINEER OF BRIDGE DESIGN	DATE - MAY 15, 2017	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PIER 1 BEARING DETAILS STRUCTURE NO. 026-0022</b>	F.A.I. RTE. 70	SECTION (26-3VB1BR-1)	COUNTY FAYETTE	TOTAL SHEETS 103	SHEET NO. 48	
CHECKED - Nicholas R. Barnett	PASSED - <i>Carl Papp</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED			CONTRACT NO. 74518					
DRAWN - R. Laughlin		REVISED			ILLINOIS FED. AID PROJECT					
CHECKED - J.O.V. / N.R.B. / G.R.A.					SHEET NO. 31 OF 52 SHEETS					





ELEVATION AT ABUT.

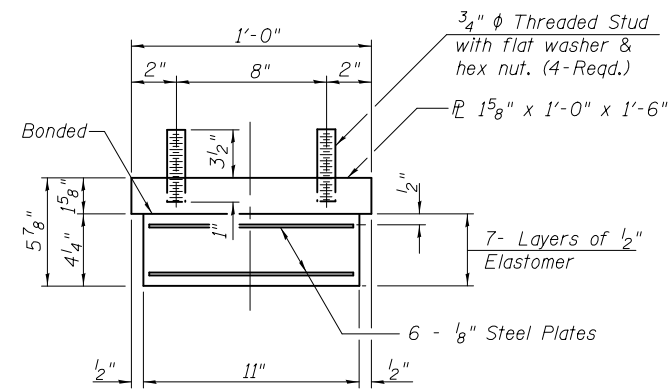


SECTION A-A

1"  $\phi$  x 1'-0" Anchor bolts (Grade 55) with 2 1/4" x 2 1/4" x 5/16" PL washer under nut 1/2"  $\phi$  Holes in bottom PL.

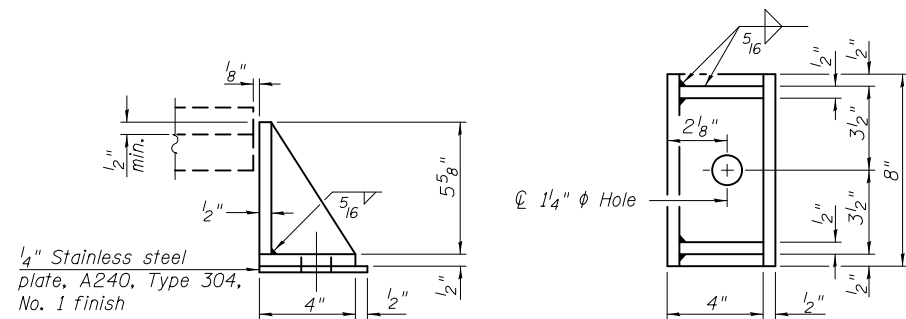
**TYPE I ELASTOMERIC EXP. BRG.**

(1 required at East Abutment)



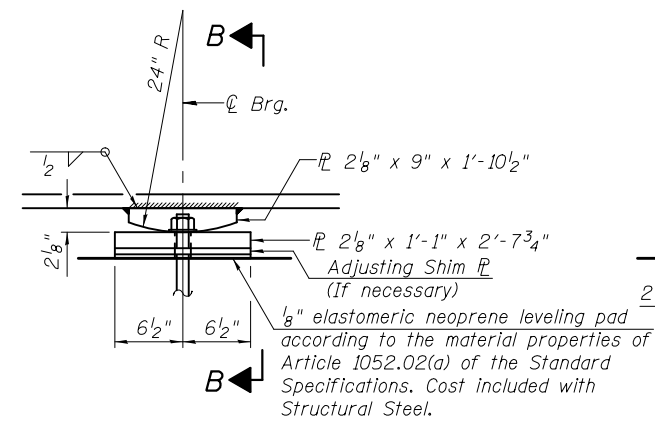
**BEARING ASSEMBLY**

Note:  
Shim plates shall not be placed under Bearing Assembly.

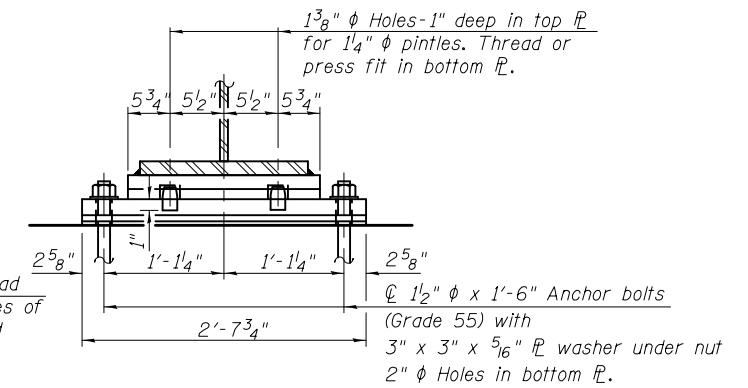


**SIDE RETAINER**

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



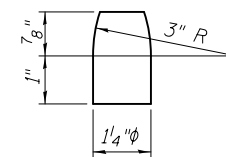
ELEVATION AT PIER 2



SECTION B-B

**FIXED BEARING**

(1 required at Pier 2)



**PINTLE**

Notes:

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Side retainers and other steel members required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.

Beams shall be braced for stability during erection and remain braced until deck is poured and cured.

Anchor bolts and side retainers at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.

The structural steel plates of the Bearing Assembly and fixed bearing, including pintle, shall conform to the requirements of AASHTO M 270 Grade 50.

Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

**BILL OF MATERIAL**

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	3
Elastomeric Bearing Assembly Type III	Each	1
Anchor Bolts 1"	Each	8
Anchor Bolts 1 1/2"	Each	2

SDATES \$TIMES

I-2E-1

12-2-15

DESIGNED - Josue D. Ortiz-Varela  
 CHECKED - Nicholas R. Barnett  
 DRAWN - R. Laughlin  
 CHECKED - J.O.V. / N.R.B. / G.R.A.

EXAMINED  
 PASSED  
 ENGINEER OF BRIDGE DESIGN  
 ENGINEER OF BRIDGES AND STRUCTURES

DATE - MAY 15, 2017  
 REVISED  
 REVISED

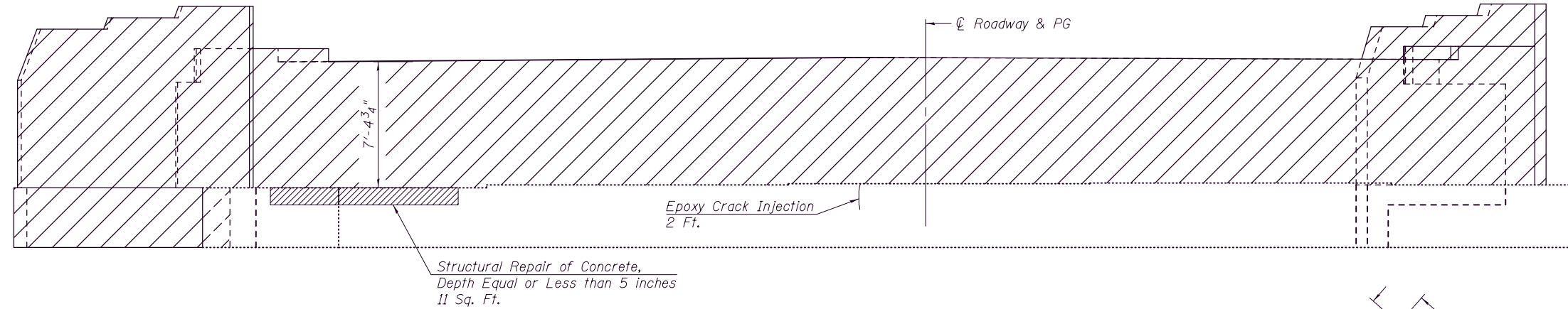
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT & PIER 2 BEARING DETAILS  
 STRUCTURE NO. 026-0022

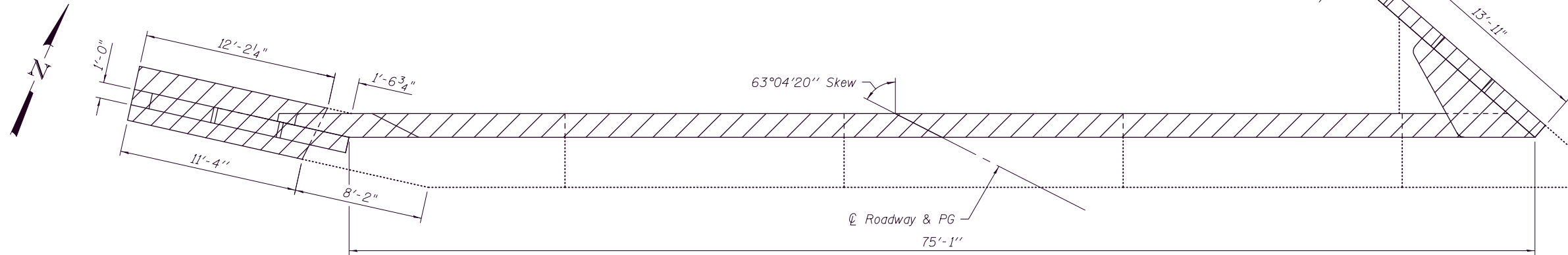
SHEET NO. 32 OF 52 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(26-3VB1BR-1)	FAYETTE	103	49
CONTRACT NO. 74518				
ILLINOIS FED. AID PROJECT				

Notes:  
 Hatched areas indicate Concrete Removal.  
 Clean and re-use existing vertical #4 bars  
 at 12" cts., each face of backwall.

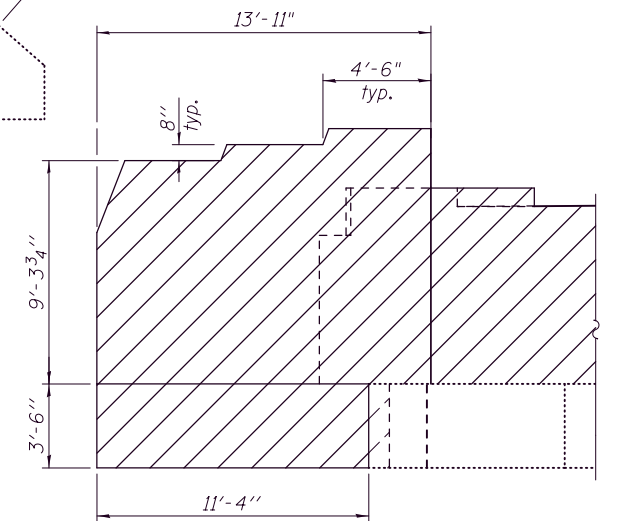
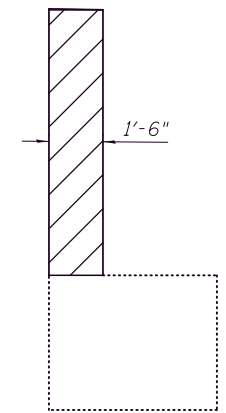


**ELEVATION**

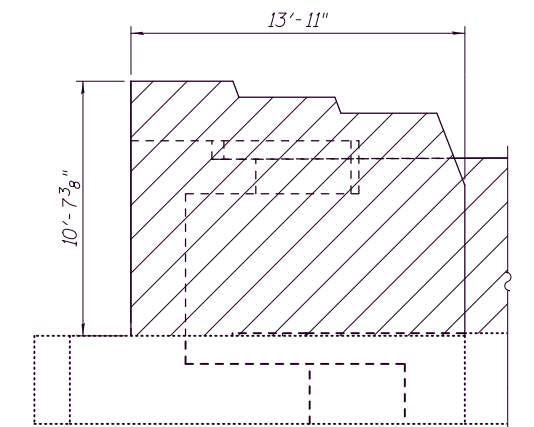


**PLAN**

**SECTION THRU ABUTMENT**



**SOUTH WINGWALL**



**NORTH WINGWALL**

**WEST ABUTMENT  
 BILL OF MATERIAL**

Item	Unit	Total
Epoxy Crack Injection	Lin. Ft.	2
Structural Repair of Concrete, Depth Equal or Less than 5 inches	Sq. Ft.	11
Concrete Removal	Cu. Yd.	46.1

**EMBEDDED 3D MODEL**

The above Embedded 3D Model can be panned, rotated, or zoomed from within the electronic file. The content of the 3D model is intended only to be used for information/visualization only. The 2D plan details and dimensions take precedence over any content of our 3D model(s).

\$DATES \$TIMES

DESIGNED - JOSUE D. ORTIZ-VARELA  
 CHECKED - NICHOLAS R. BARNETT  
 DRAWN - MICHAEL B. MOSSMAN  
 CHECKED - J.O.V. / N.R.B. / G.R.A.

EXAMINED  
 PASSED  
 ENGINEER OF BRIDGES AND STRUCTURES

DATE - MAY 15, 2017  
 REVISED  
 REVISED

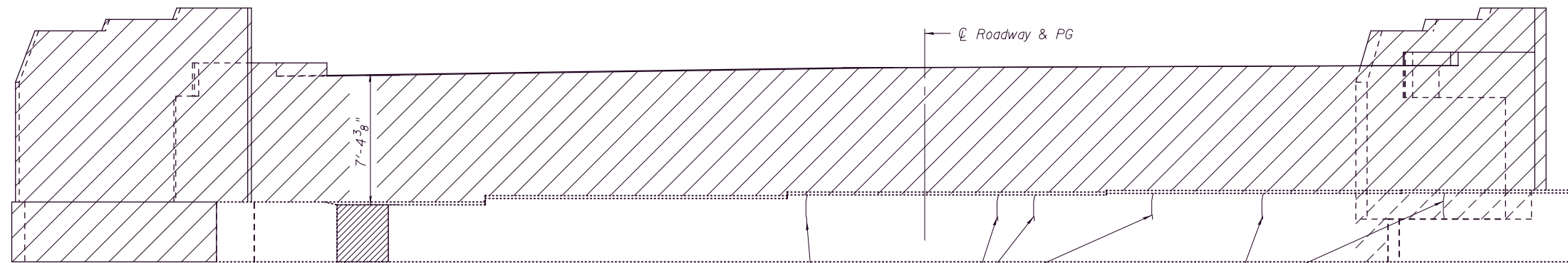
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**WEST ABUTMENT REMOVAL & REPAIR  
 STRUCTURE NO. 026 - 0022**

SHEET NO. 33 OF 52 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(26-3VB1)BR-1	FAYETTE	103	50
CONTRACT NO. 74518				

ILLINOIS FED. AID PROJECT

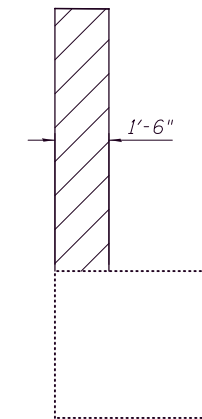


Structural Repair of Concrete,  
Depth Equal or Less than 5 inches  
11 Sq. Ft.

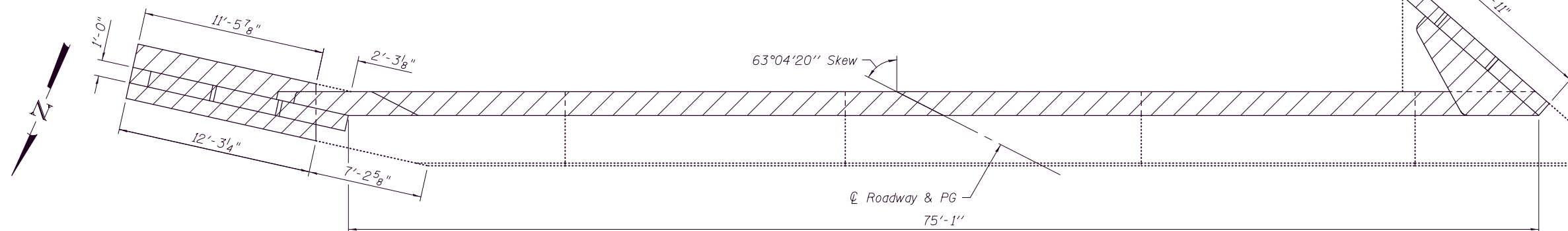
Epoxy Crack Injection  
2 Ft.

Epoxy Crack Injection  
2 Ft.

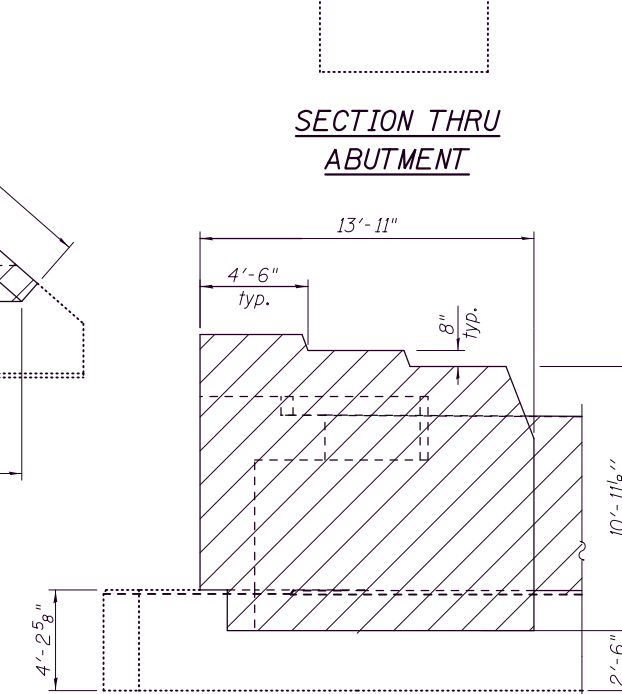
**ELEVATION**



**SECTION THRU  
ABUTMENT**

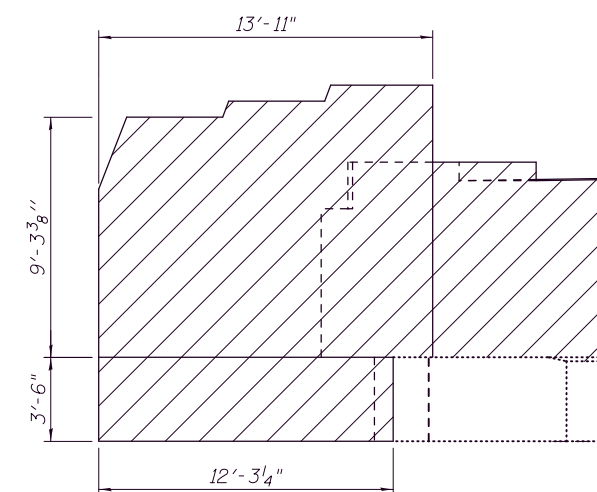


**PLAN**



**SOUTH WINGWALL**

Note:  
Hatched areas indicate Concrete Removal.  
Clean and re-use existing vertical #4 bars  
at 12" cts., each face of backwall.



**NORTH WINGWALL**

**EAST ABUTMENT  
BILL OF MATERIAL**

Item	Unit	Total
Epoxy Crack Injection	Lin. Ft.	12
Structural Repair of Concrete, Depth Equal or Less than 5 inches	Sq. Ft.	11
Concrete Removal	Cu. Yd.	46.6

**EMBEDDED 3D MODEL**

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or zoomed from within the electronic file. The content of  
the 3D model is intended only to be used for information/  
visualization only. The 2D plan details and dimensions take  
precedence over any content of our 3D model(s).

\$DATES \$TIMES

DESIGNED - JOSUE D. ORTIZ-VARELA  
CHECKED - NICHOLAS R. BARNETT  
DRAWN - MICHAEL B. MOSSMAN  
CHECKED - J.O.V. / N.R.B. / G.R.A.

EXAMINED  
PASSED

*Joanne F. J. [Signature]*  
ENGINEER OF BRIDGE DESIGN  
*Carl [Signature]*  
ENGINEER OF BRIDGES AND STRUCTURES

DATE - MAY 15, 2017

REVISED  
REVISED

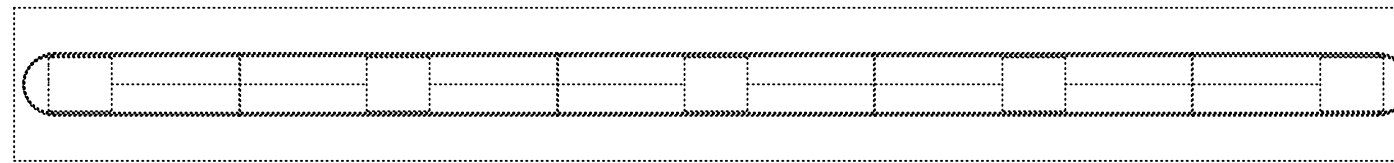
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EAST ABUTMENT REMOVAL & REPAIR  
STRUCTURE NO. 026 - 0022**

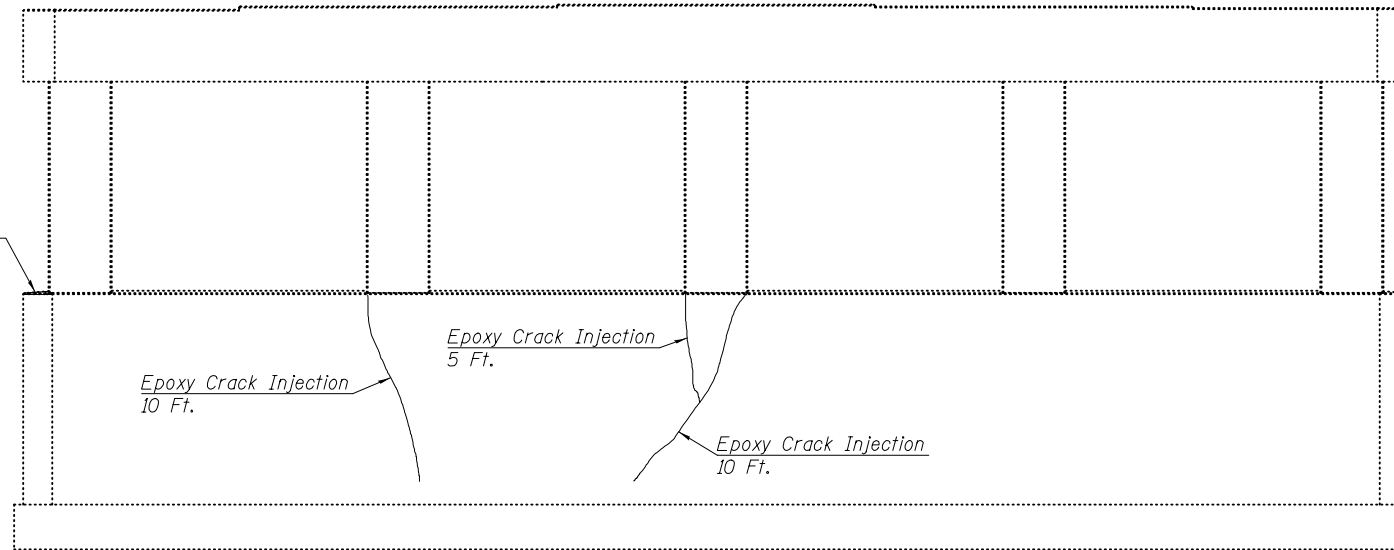
SHEET NO. 34 OF 52 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(26-3VB1)BR-1	FAYETTE	103	51
CONTRACT NO. 74518				

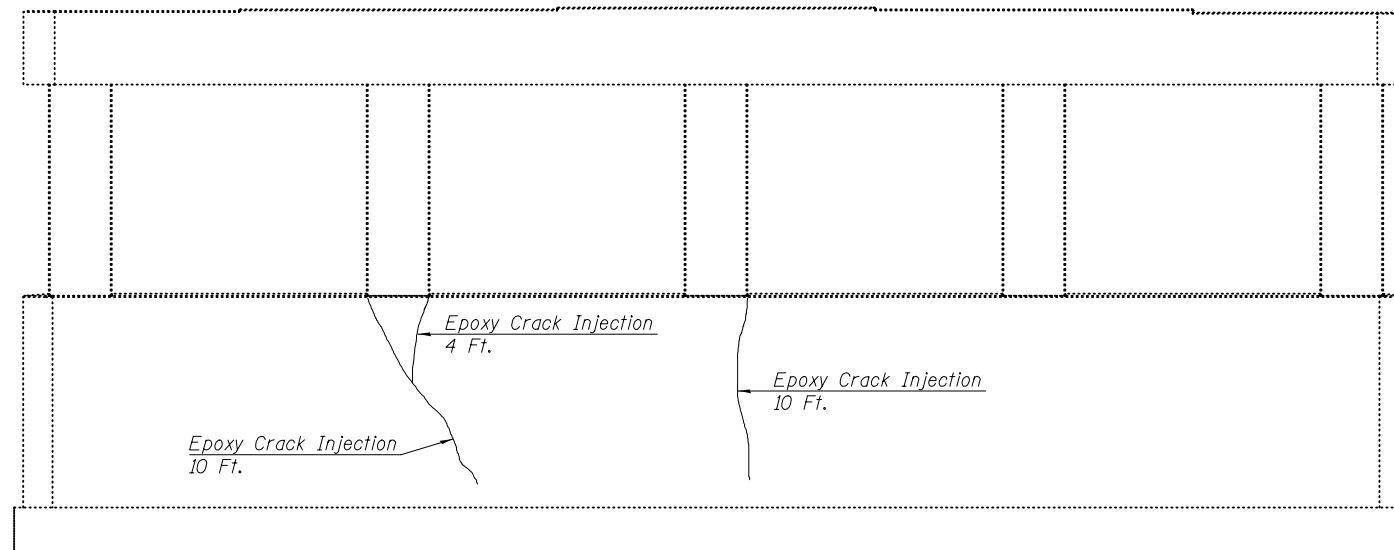
ILLINOIS FED. AID PROJECT



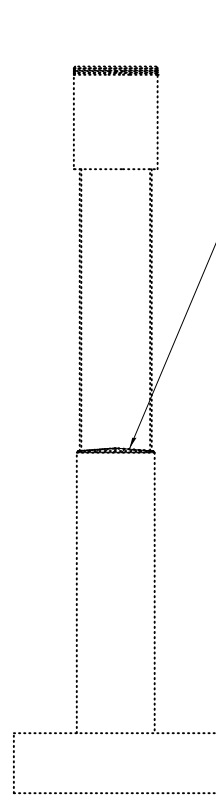
PLAN



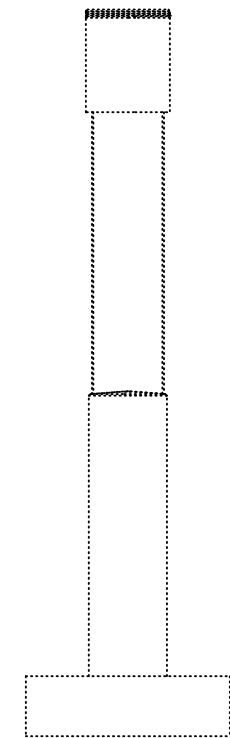
WEST ELEVATION



EAST ELEVATION



NORTH  
END VIEW



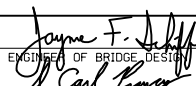
SOUTH  
END VIEW

**PIER 1  
BILL OF MATERIAL**

Item	Unit	Total
Epoxy Crack Injection	Lin. Ft.	49
Concrete Removal	Cu. Yd.	0.1

SDATES \$TIMES

DESIGNED - JOSUE D. ORTIZ-VARELA  
 CHECKED - NICHOLAS R. BARNETT  
 DRAWN - MICHAEL B. MOSSMAN  
 CHECKED - J.O.V. / N.R.B. / G.R.A.

EXAMINED \_\_\_\_\_  
 PASSED \_\_\_\_\_  
  
 ENGINEER OF BRIDGES AND STRUCTURES

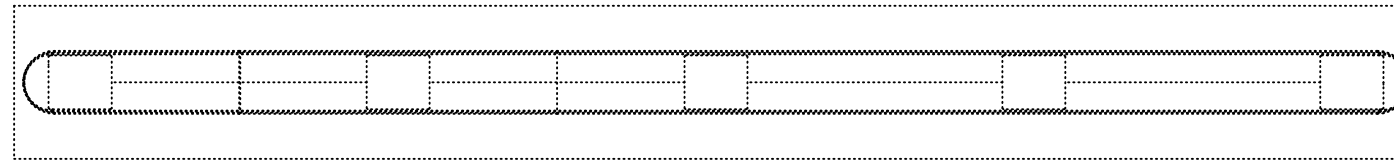
DATE - MAY 15, 2017  
 REVISED \_\_\_\_\_  
 REVISED \_\_\_\_\_

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

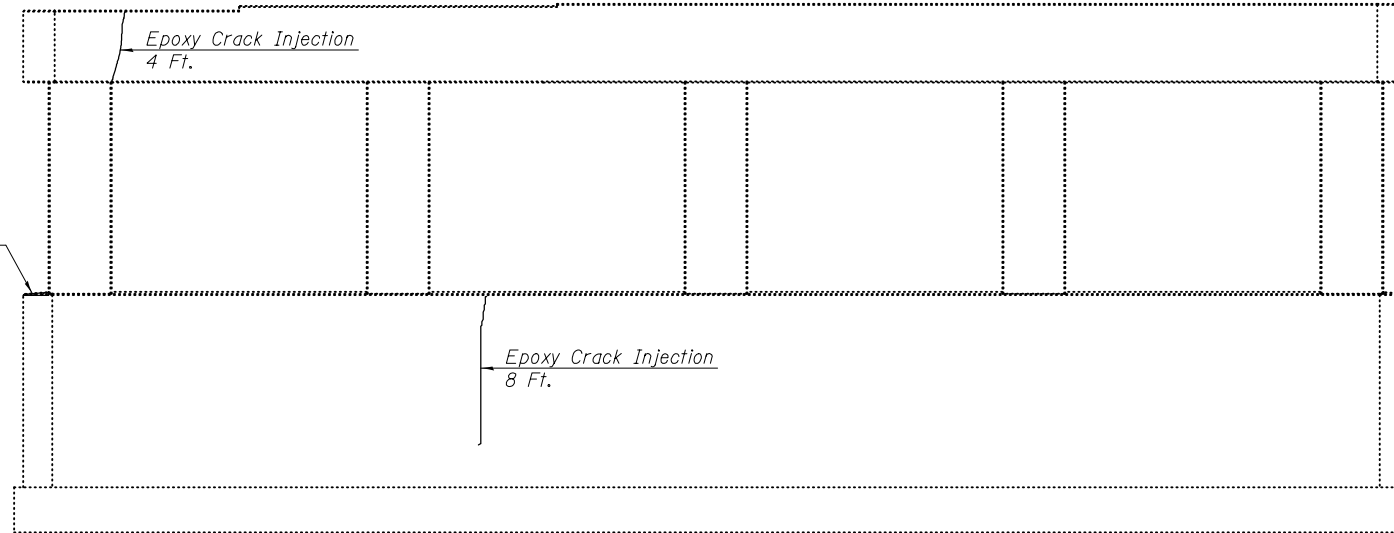
**PIER 1 REMOVAL & REPAIRS  
 STRUCTURE NO. 026 - 0022**

SHEET NO. 35 OF 52 SHEETS

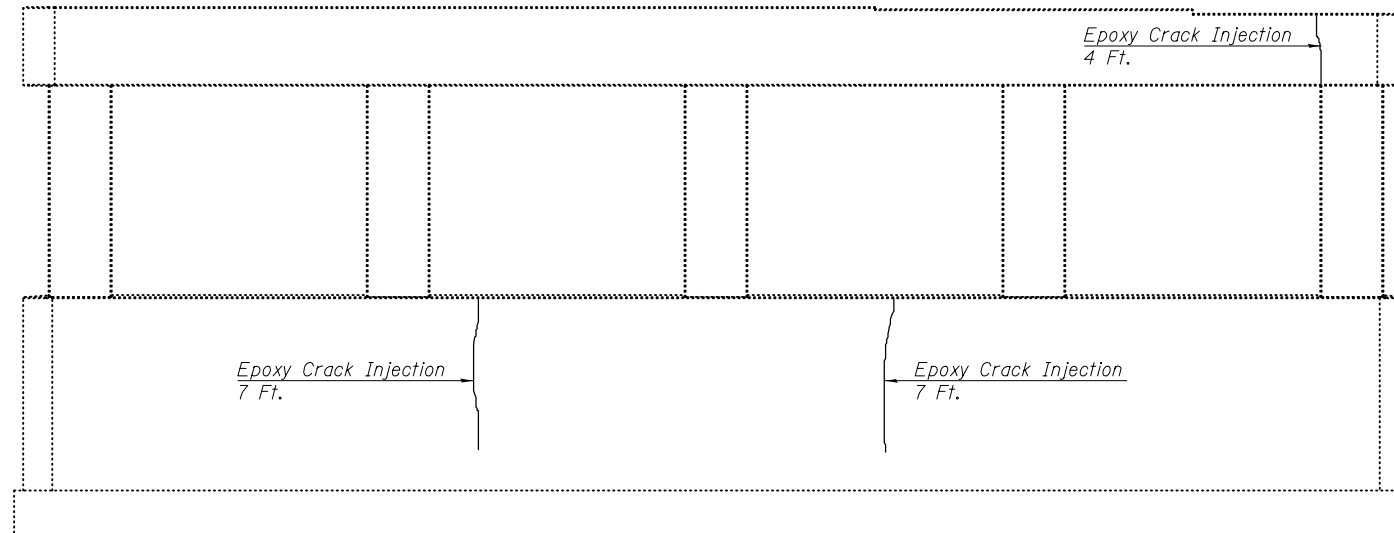
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(26-3VB)BR-1	FAYETTE	103	52
				CONTRACT NO. 74518
ILLINOIS FED. AID PROJECT				



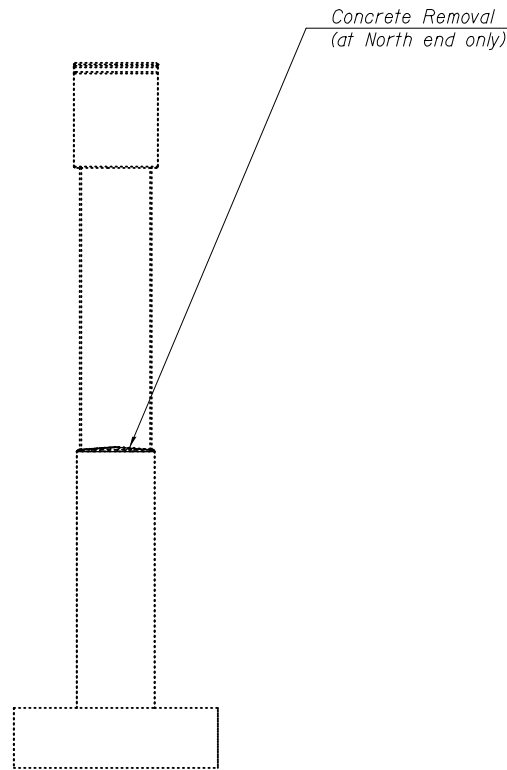
PLAN



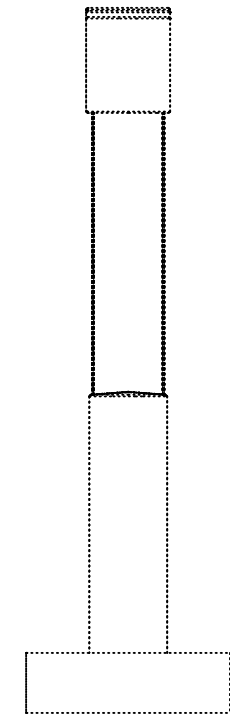
WEST ELEVATION



EAST ELEVATION



NORTH  
END VIEW



SOUTH  
END VIEW

**PIER 2  
BILL OF MATERIAL**

Item	Unit	Total
Epoxy Crack Injection	Lin. Ft.	30
Concrete Removal	Cu. Yd.	0.1

SDATES \$TIMES

DESIGNED - JOSUE D. ORTIZ-VARELA  
 CHECKED - NICHOLAS R. BARNETT  
 DRAWN - MICHAEL B. MOSSMAN  
 CHECKED - J.O.V. / N.R.B. / G.R.A.

EXAMINED \_\_\_\_\_  
 PASSED \_\_\_\_\_  
  
 ENGINEER OF BRIDGES AND STRUCTURES

DATE - MAY 15, 2017  
 REVISED \_\_\_\_\_  
 REVISED \_\_\_\_\_

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PIER 2 REMOVAL & REPAIRS  
 STRUCTURE NO. 026 - 0022**

SHEET NO. 36 OF 52 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(26-3VB)BR-1	FAYETTE	103	53
CONTRACT NO. 74518			ILLINOIS FED. AID PROJECT	



WEST ABUTMENT  
EMBEDDED 3D MODEL

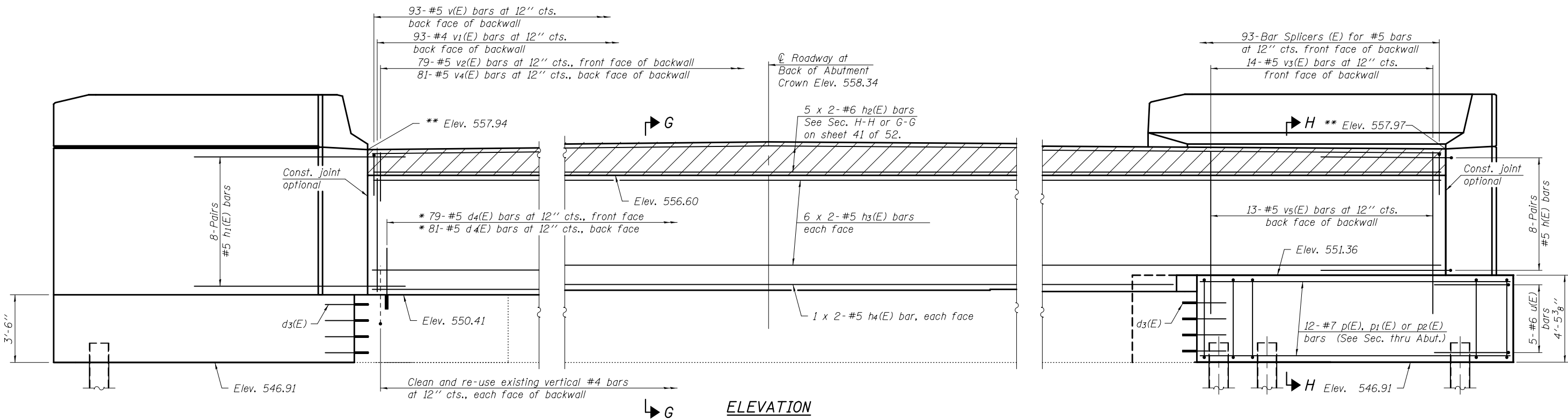
EAST ABUTMENT  
EMBEDDED 3D MODEL

*Note:*  
The above Embedded 3D Models can be panned, rotated, or zoomed in to from within the electronic file. The contents of the 3D models are intended only to be used for information/visualization only. The 2D plan details and dimensions take precedence over any content of our 3D model(s).

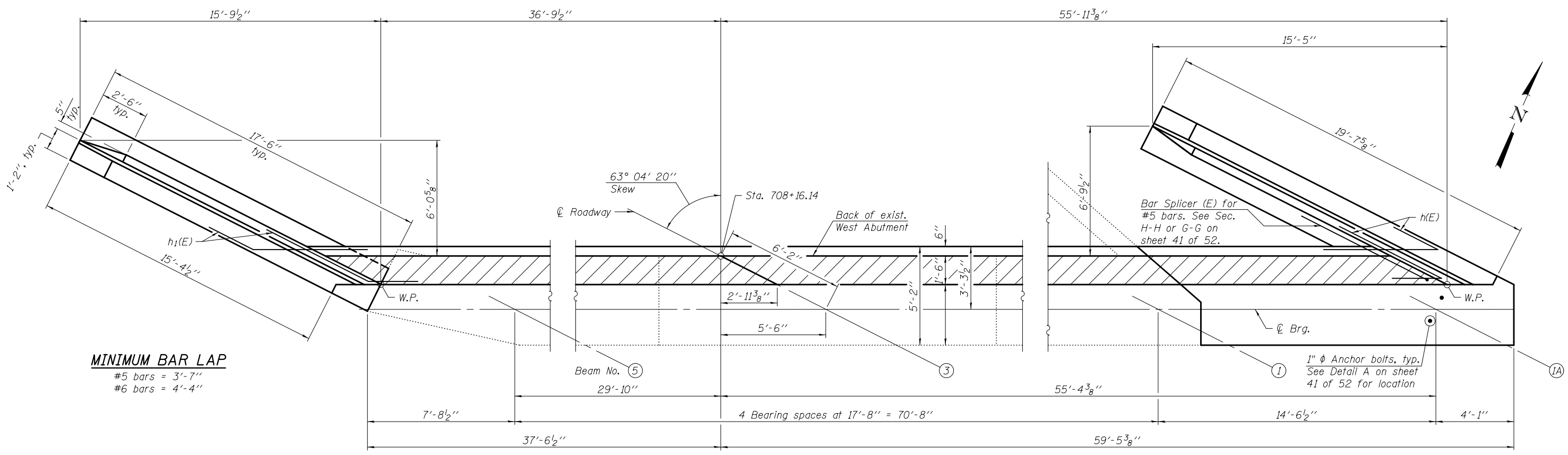
\$DAYS\$ \$TIMES\$

DESIGNED - JOSUE D. ORTIZ-VARELA	EXAMINED	DATE - MAY 15, 2017	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EMBEDDED 3D ABUTMENT MODELS STRUCTURE NO. 026 - 0022</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - NICHOLAS R. BARNETT	PASSED	REVISOR			70	(26-3VB)BR-1	FAYETTE	103	54
DRAWN - MICHAEL B. MOSSMAN		REVISOR			CONTRACT NO. 74518				
CHECKED - J.O.V. / N.R.B. / G.R.A.		REVISOR			SHEET NO. 37 OF 52 SHEETS			ILLINOIS FED. AID PROJECT	

  
 ENGINEER OF BRIDGE DESIGN  
  
 ENGINEER OF BRIDGES AND STRUCTURES



**ELEVATION**

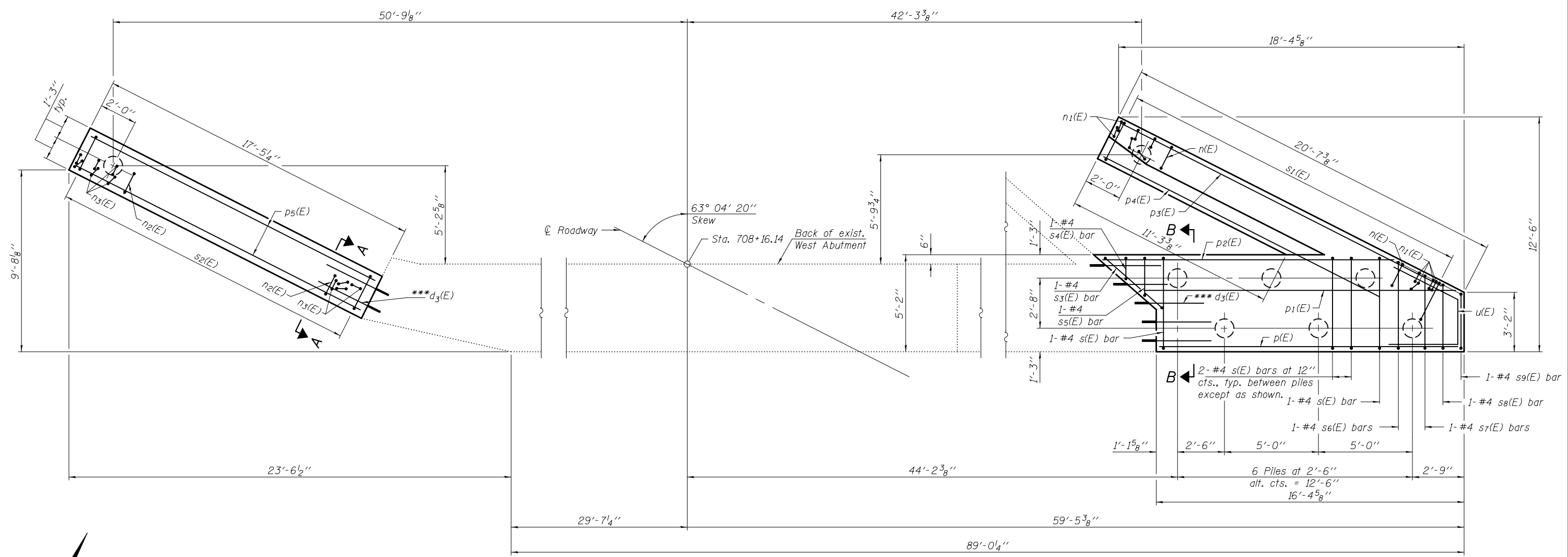


**TOP VIEW**

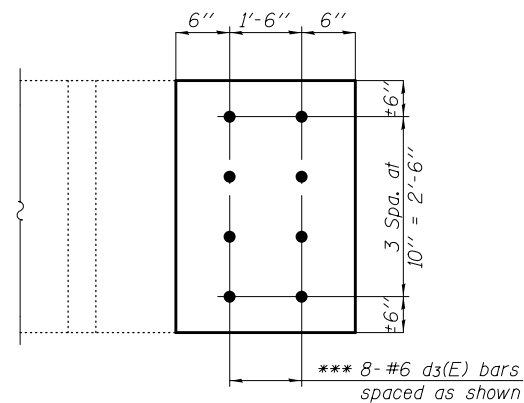
\* Epoxy grout  $d_4(E)$  bars in 9" min. drilled holes according to Section 584 of the Standard Specifications. Edge distance shall be a minimum of 4", unless otherwise shown. See Section G-G on sheet 41 of 52.

\*\* Elevations are taken at front face of hatched block.

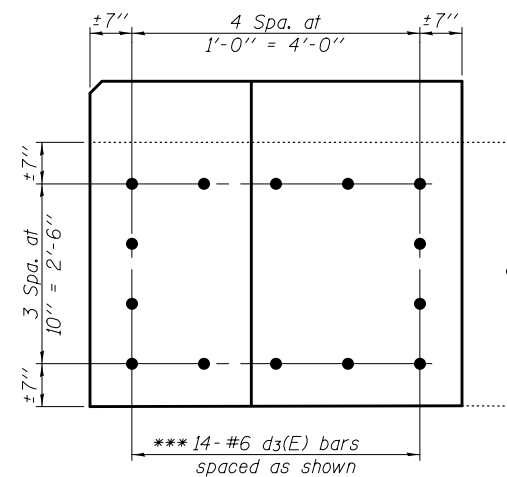
DESIGNED - JOSUE D. ORTIZ-VARELA	EXAMINED - <i>Jaime F. J. [Signature]</i>	DATE - MAY 15, 2017	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>WEST ABUTMENT STRUCTURE NO. 026 - 0022</b>	F.A.I. R.T.E. - 70	SECTION - (26-3VB)BR-1	COUNTY - FAYETTE	TOTAL SHEETS - 103	SHEET NO. - 55	
CHECKED - NICHOLAS R. BARNETT	PASSED - <i>Carl [Signature]</i>	REVISOR			CONTRACT NO. 74518					
DRAWN - MICHAEL B. MOSSMAN	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR			SHEET NO. 38 OF 52 SHEETS					
CHECKED - J.O.V. / N.R.B. / G.R.A.					ILLINOIS FED. AID PROJECT					



PLAN - PILE CAP



VIEW A-A



VIEW B-B

\*\*\* Epoxy grout d3(E) bars in 9" min. drilled holes according to Section 584 of the Standard Specifications. Edge distance shall be a minimum of 4", unless otherwise shown.

SDATES \$TIMES

DESIGNED - JOSUE D. ORTIZ-VARELA
CHECKED - NICHOLAS R. BARNETT
DRAWN - MICHAEL B. MOSSMAN
CHECKED - J.O.V. / N.R.B. / G.R.A.

EXAMINED	 ENGINEER OF BRIDGES AND STRUCTURES
PASSED	
DATE - MAY 15, 2017	
REVISOR	

DATE - MAY 15, 2017
REVISOR
REVISOR

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

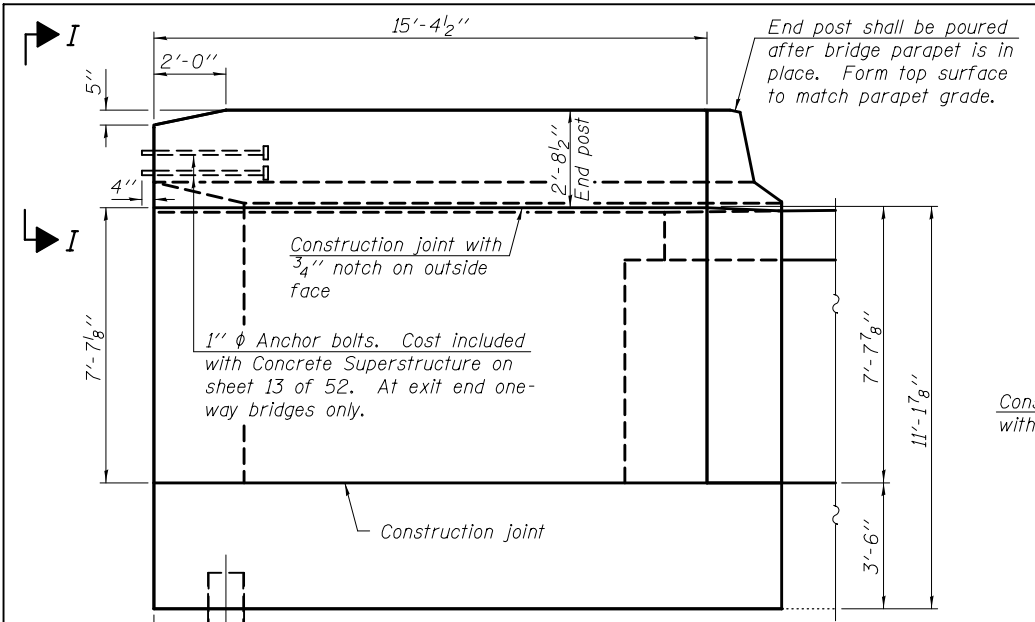
WEST ABUTMENT DETAILS  
STRUCTURE NO. 026 - 0022

SHEET NO. 39 OF 52 SHEETS

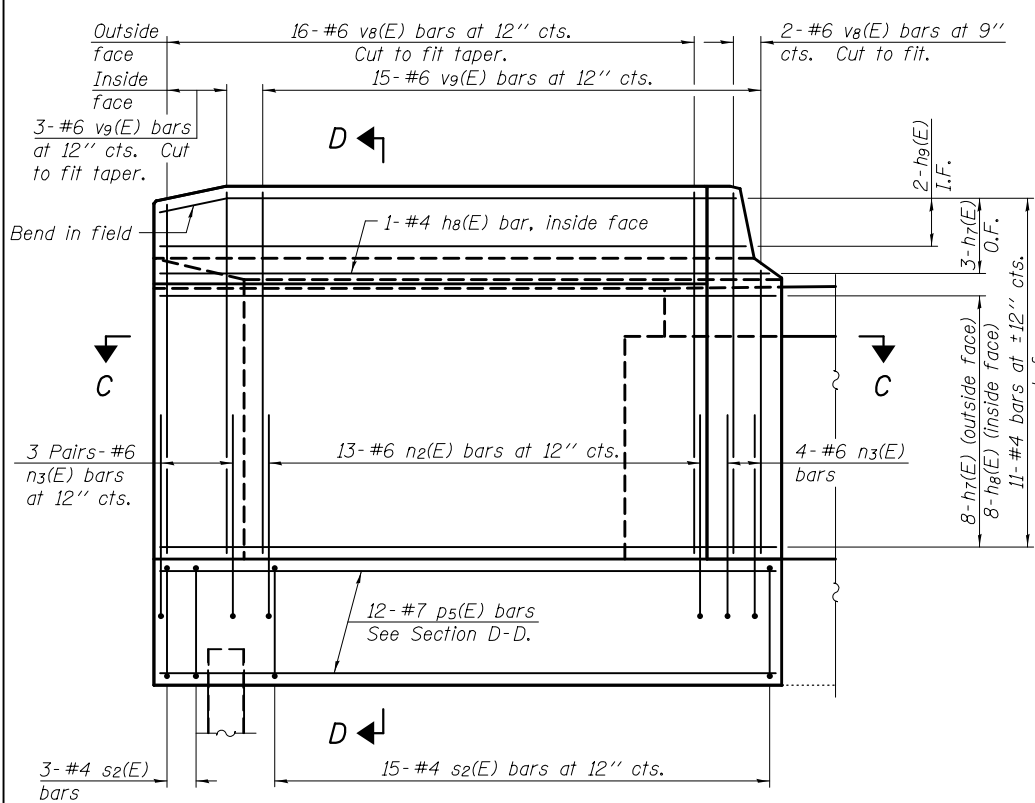
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(26-3VB)BR-1	FAYETTE	103	56
CONTRACT NO. 74518				

ILLINOIS FED. AID PROJECT

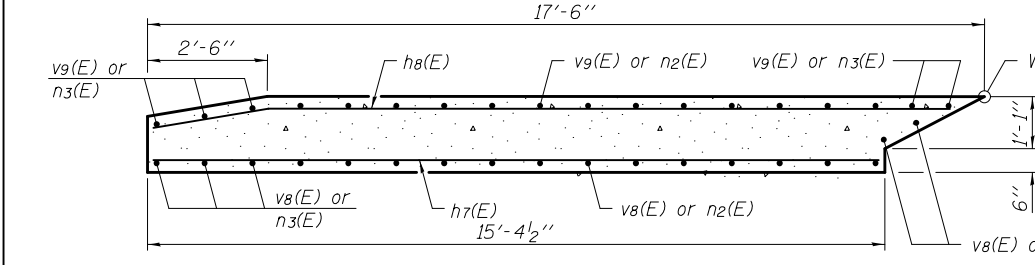




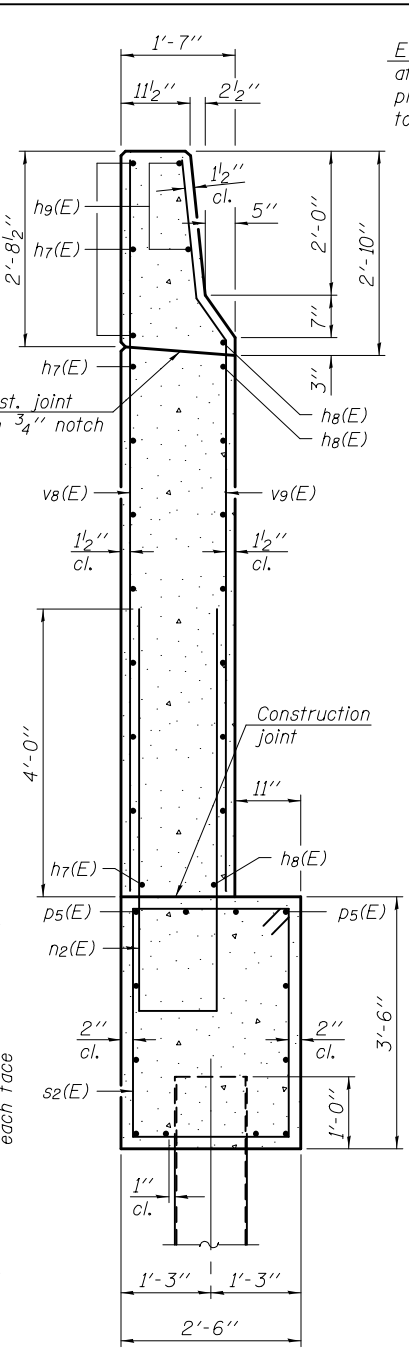
**SOUTH WINGWALL ELEVATION**  
(Showing dimensions)



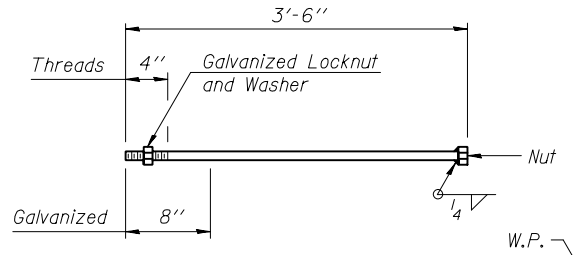
**SOUTH WINGWALL ELEVATION**  
(Showing reinforcement)



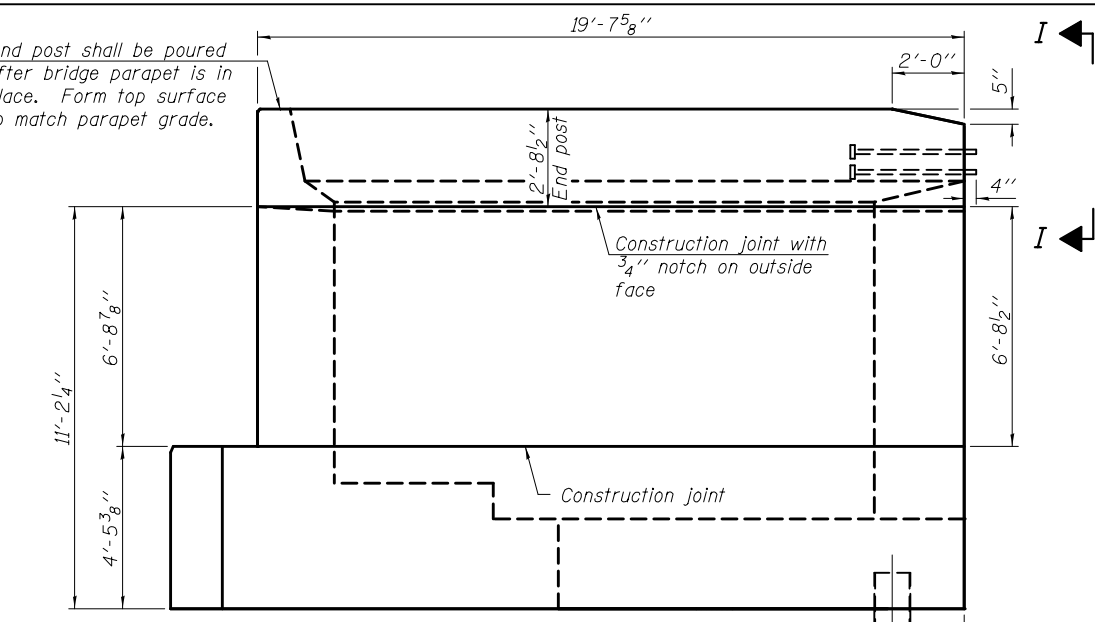
**SECTION C-C**



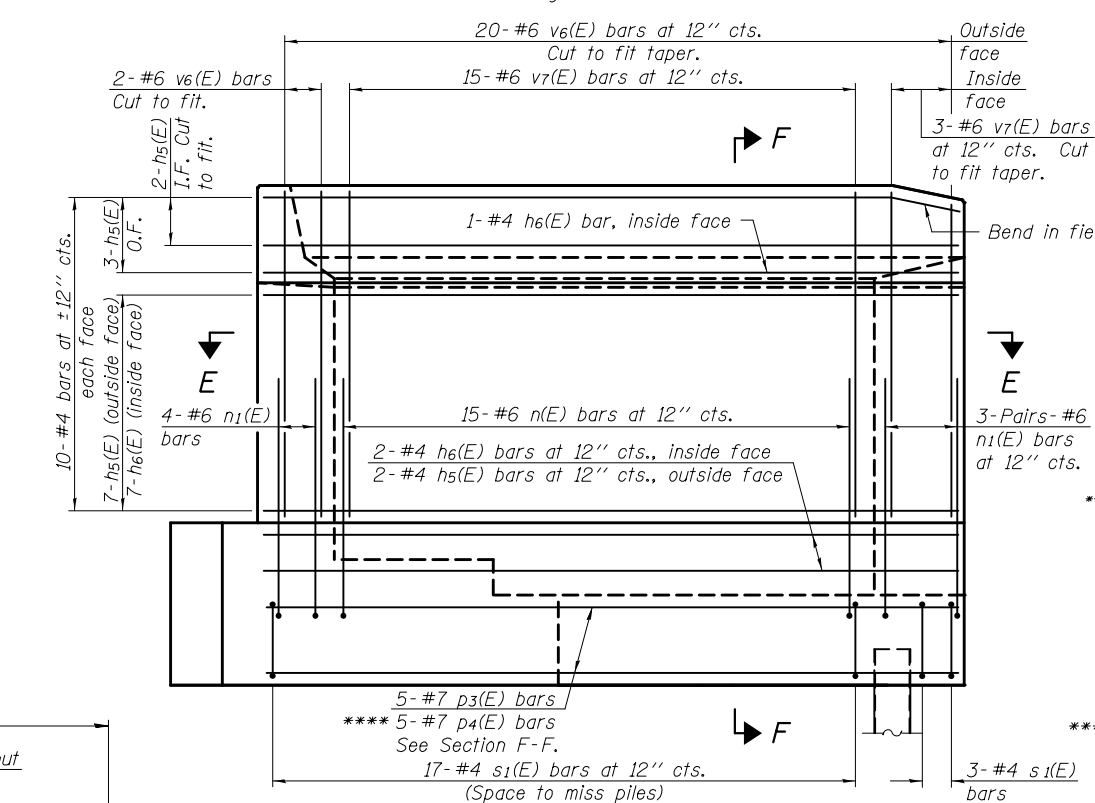
**SECTION D-D**



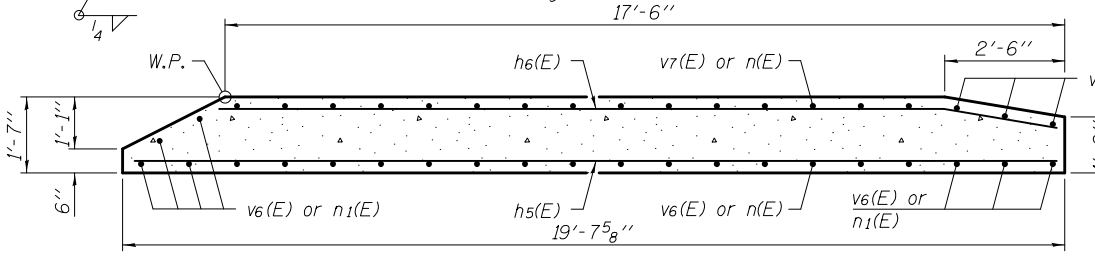
**1"  $\phi$  ANCHOR BOLT**



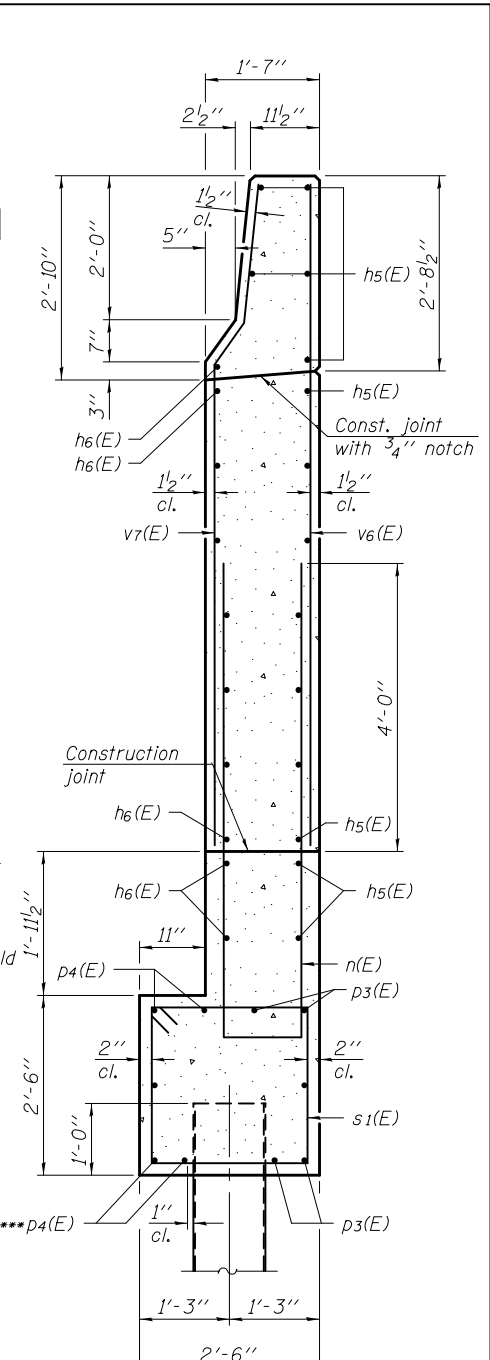
**NORTH WINGWALL ELEVATION**  
(Showing dimensions)



**NORTH WINGWALL ELEVATION**  
(Showing reinforcement)

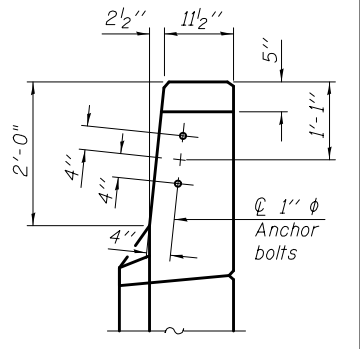


**SECTION E-E**



**SECTION F-F**

\*\*\*\* Cut p4(E) bars as required to miss pile in abutment cap.



**VIEW I-I**

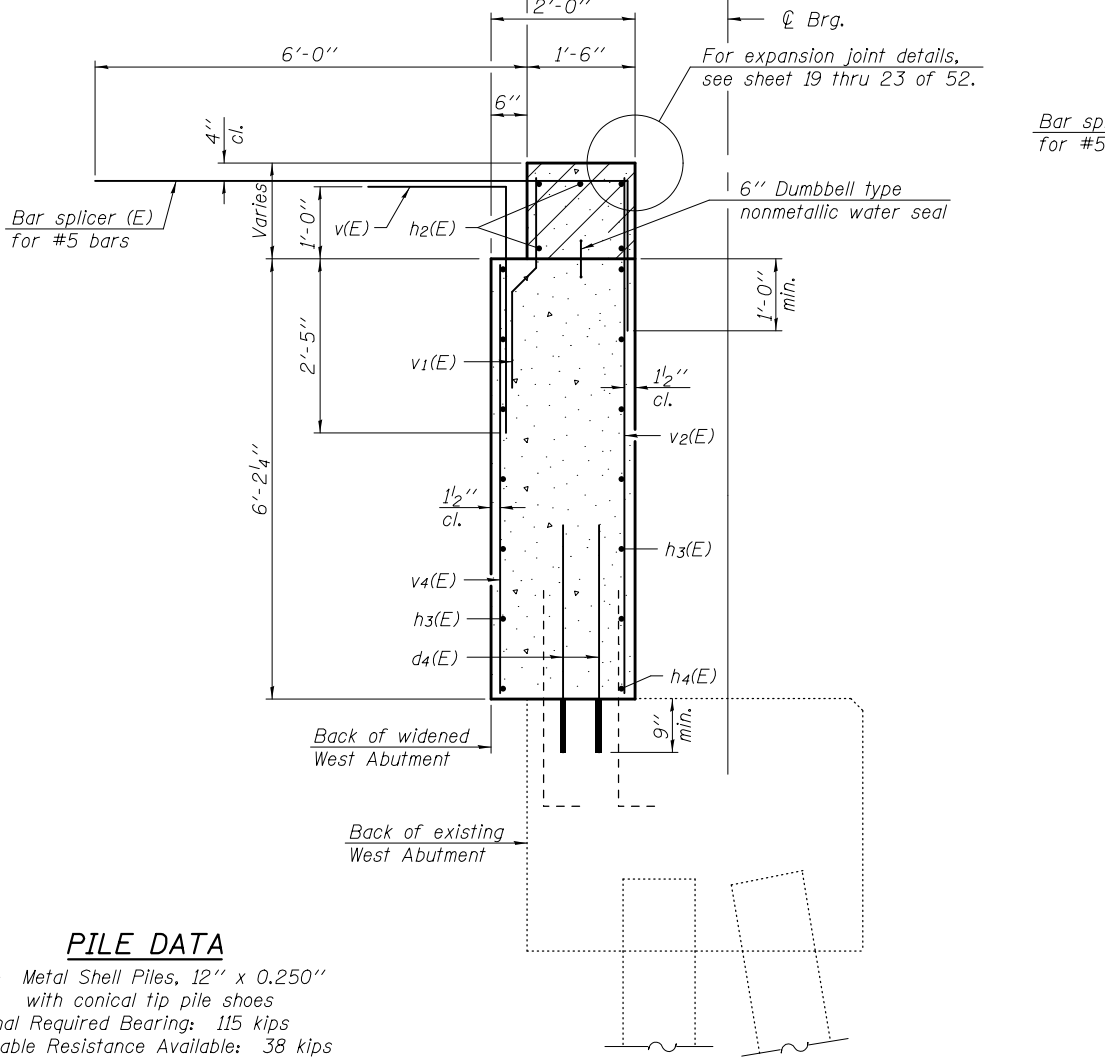
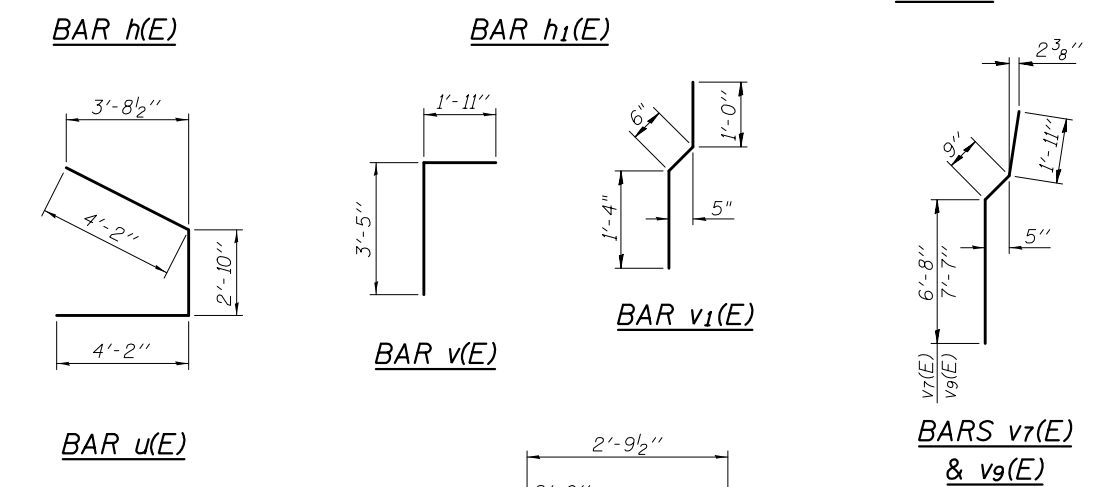
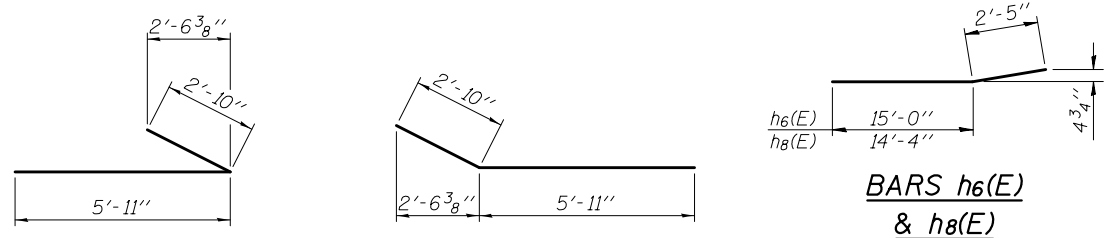
DESIGNED - JOSUE D. ORTIZ-VARELA	EXAMINED - <i>Jaime F. J...</i>	DATE - MAY 15, 2017
CHECKED - NICHOLAS R. BARNETT	PASSED - <i>Michael B. Mossman</i>	REVISOR
DRAWN - MICHAEL B. MOSSMAN	ENGINEER OF BRIDGE DESIGN	REVISOR
CHECKED - J.O.V. / N.R.B. / G.R.A.	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

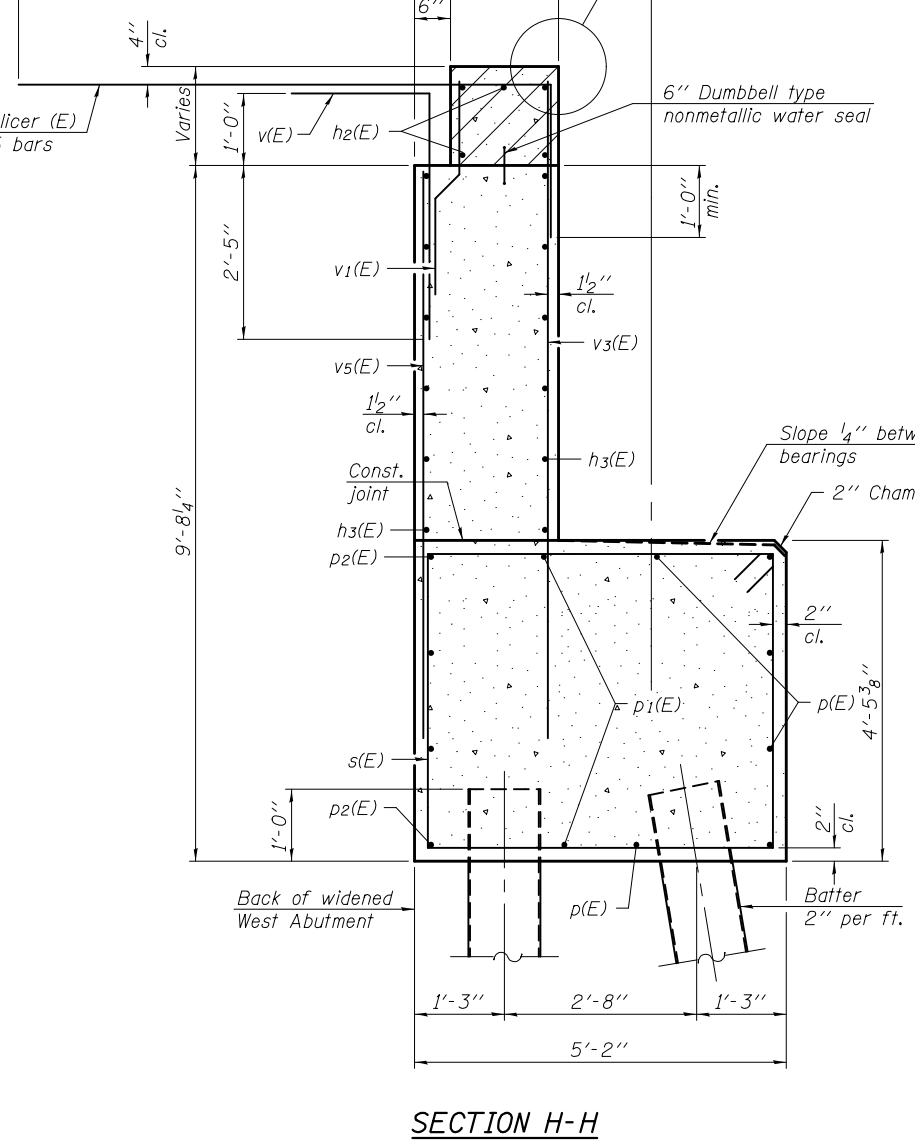
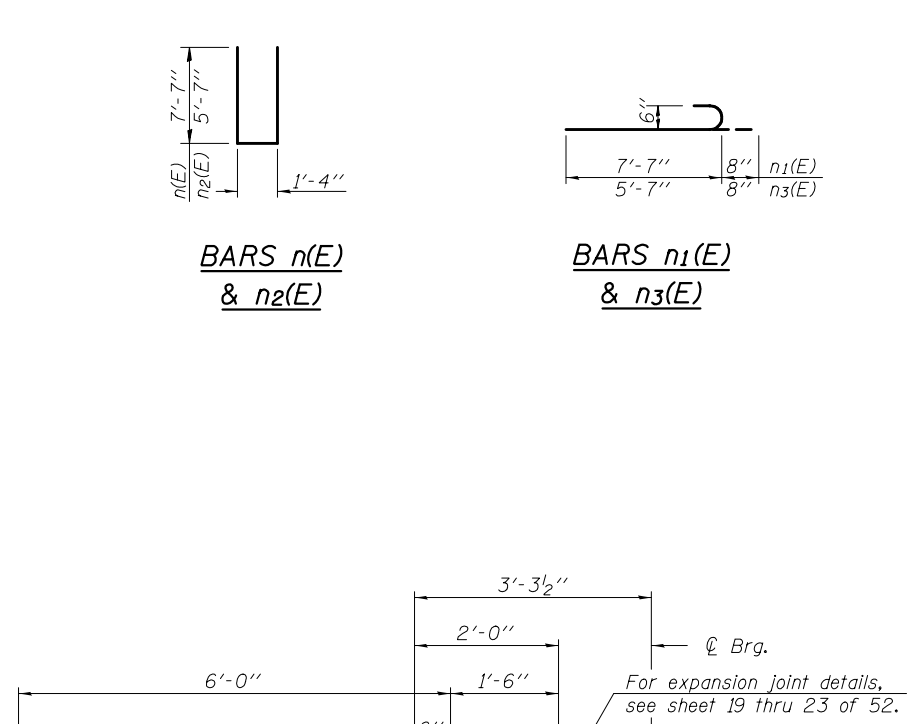
WEST ABUTMENT DETAILS  
STRUCTURE NO. 026 - 0022

SHEET NO. 40 OF 52 SHEETS

F.A.I. RTE. 70	SECTION (26-3VB1)BR-1	COUNTY FAYETTE	TOTAL SHEETS 103	SHEET NO. 57
CONTRACT NO. 74518				
ILLINOIS FED. AID PROJECT				



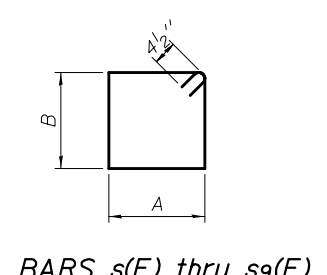
**PILE DATA**  
Type: Metal Shell Piles, 12" x 0.250" with conical tip pile shoes  
Nominal Required Bearing: 115 kips  
Allowable Resistance Available: 38 kips  
Est. Length: 28 ft.  
No. Production Piles: 7  
No. Test Piles: 1



**Notes:**  
Hatched area to be poured after superstructure false work has been removed. Quantity of concrete included with Concrete Superstructure.  
Space reinforcement in cap to miss anchor bolts. Quantity of concrete in end post included with Concrete Superstructure on sheet 17 of 52.  
For details of metal shell pile reinforcement, see sheet 48 of 52.

**WEST ABUTMENT BILL OF MATERIAL**

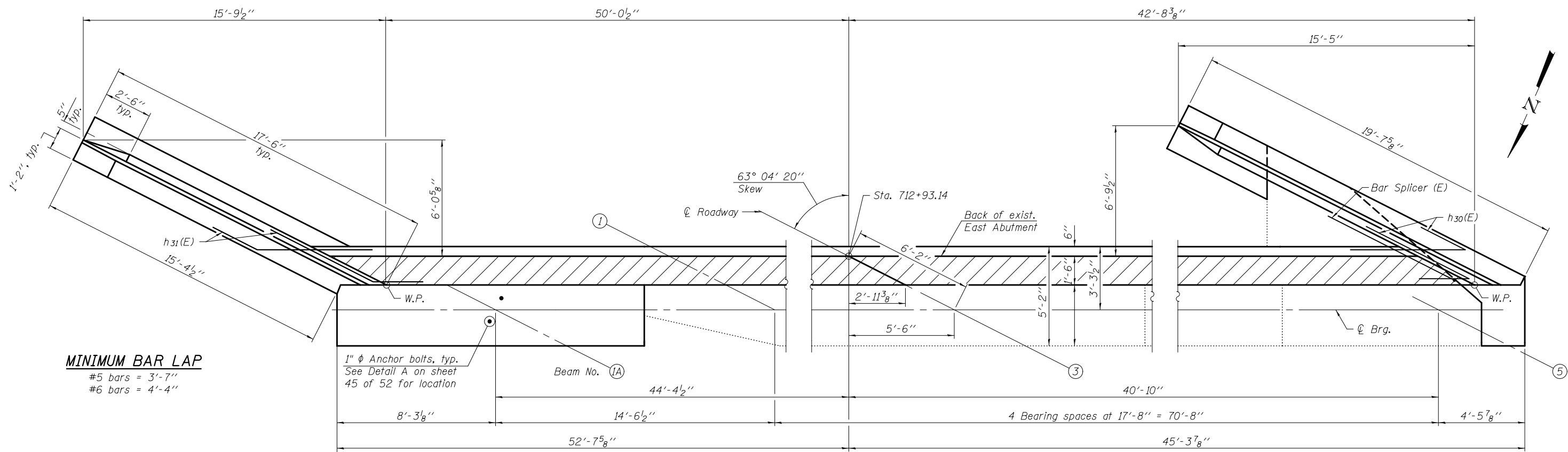
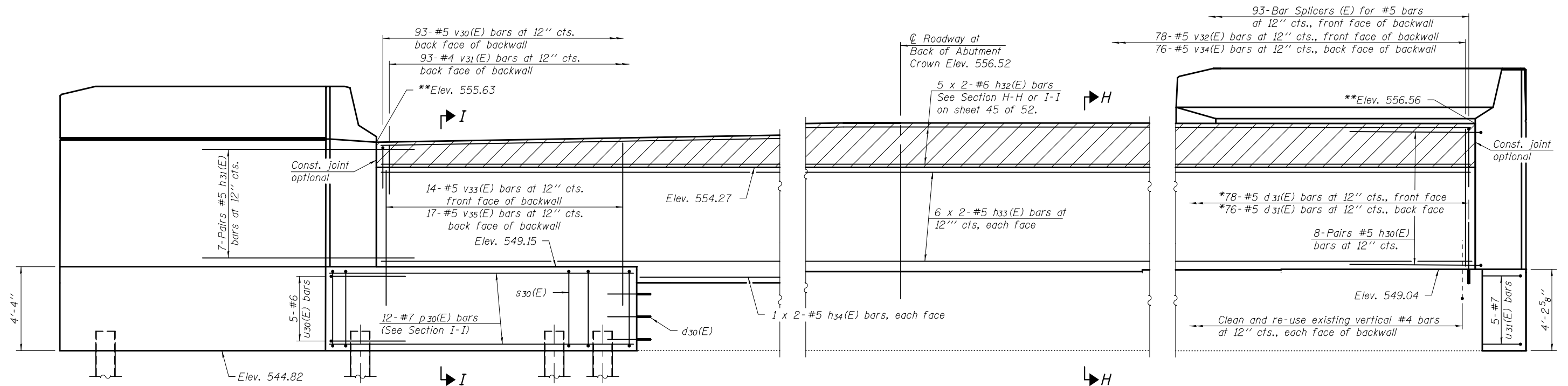
Bar	No.	Size	Length	Shape
d3(E)	22	#6	4'-1"	—
d4(E)	160	#5	3'-6"	—
h(E)	16	#5	8'-9"	↘
h1(E)	16	#5	8'-9"	↘
h2(E)	10	#6	48'-5"	—
h3(E)	24	#5	48'-0"	—
h4(E)	4	#5	41'-11"	—
h5(E)	14	#4	19'-3"	—
h6(E)	10	#4	17'-5"	—
h7(E)	11	#4	15'-0"	—
h8(E)	9	#4	16'-9"	—
h9(E)	2	#4	15'-7"	—
n(E)	15	#6	16'-6"	—
n1(E)	10	#6	8'-3"	—
n2(E)	13	#6	12'-6"	—
n3(E)	10	#6	6'-3"	—
p(E)	6	#7	16'-0"	—
p1(E)	2	#7	16'-7"	—
p2(E)	4	#7	15'-3"	—
p3(E)	5	#7	19'-7"	—
p4(E)	5	#7	15'-4"	—
p5(E)	12	#7	17'-1"	—
s(E)	10	#4	18'-7"	—
s1(E)	20	#4	9'-5"	—
s2(E)	18	#4	11'-5"	—
s3(E)	1	#4	17'-1"	—
s4(E)	1	#4	10'-9"	—
s5(E)	1	#4	12'-7"	—
s6(E)	1	#4	17'-11"	—
s7(E)	1	#4	16'-7"	—
s8(E)	1	#4	15'-7"	—
s9(E)	1	#4	14'-9"	—
u(E)	5	#6	11'-2"	—
v(E)	93	#5	5'-4"	—
v1(E)	93	#4	2'-10"	—
v2(E)	79	#5	7'-2"	—
v3(E)	14	#5	8'-10"	—
v4(E)	81	#5	5'-10"	—
v5(E)	13	#5	7'-6"	—
v6(E)	22	#6	9'-1"	—
v7(E)	18	#6	9'-4"	—
v8(E)	18	#6	9'-11"	—
v9(E)	18	#6	10'-3"	—
Structure Excavation	Cu. Yd.		314	
Concrete Structures	Cu. Yd.		80.8	
Reinforcement Bars, Epoxy Coated	Pound		9,290	
Furnishing Metal Shell Piles, 12" x 0.250"	Foot		196	
Driving Piles	Foot		196	
Test Pile Metal Shells	Each		1	
Pile Shoes	Each		8	
Concrete Sealer	Sq. Ft.		815	



Bar	A	B
s(E)	4'-10"	4'-1"
s1(E)	2'-2"	2'-2"
s2(E)	2'-2"	3'-2"
s3(E)	4'-1"	4'-1"
s4(E)	0'-11"	4'-1"
s5(E)	1'-10"	4'-1"
s6(E)	4'-6"	4'-1"
s7(E)	3'-10"	4'-1"
s8(E)	3'-4"	4'-1"
s9(E)	2'-11"	4'-1"

For details of Bar Splicers, see sheet 49 of 52.  
For details of piles, see sheet 48 of 52.

SDATES - STIMES



**MINIMUM BAR LAP**

#5 bars = 3'-7"  
 #6 bars = 4'-4"

\* Epoxy grout d31(E) bars in 9" min. drilled holes according to Section 584 of the Standard Specifications. Edge distance shall be a minimum of 4", unless otherwise shown. See Section H-H on sheet 45 of 52.

\*\* Elevations are taken at front face of hatched block.

SDATES \$TIMES

DESIGNED - JOSUE D. ORTIZ-VARELA	EXAMINED
CHECKED - NICHOLAS R. BARNETT	PASSED
DRAWN - MICHAEL B. MOSSMAN	
CHECKED - J.O.V. / N.R.B. / G.R.A.	

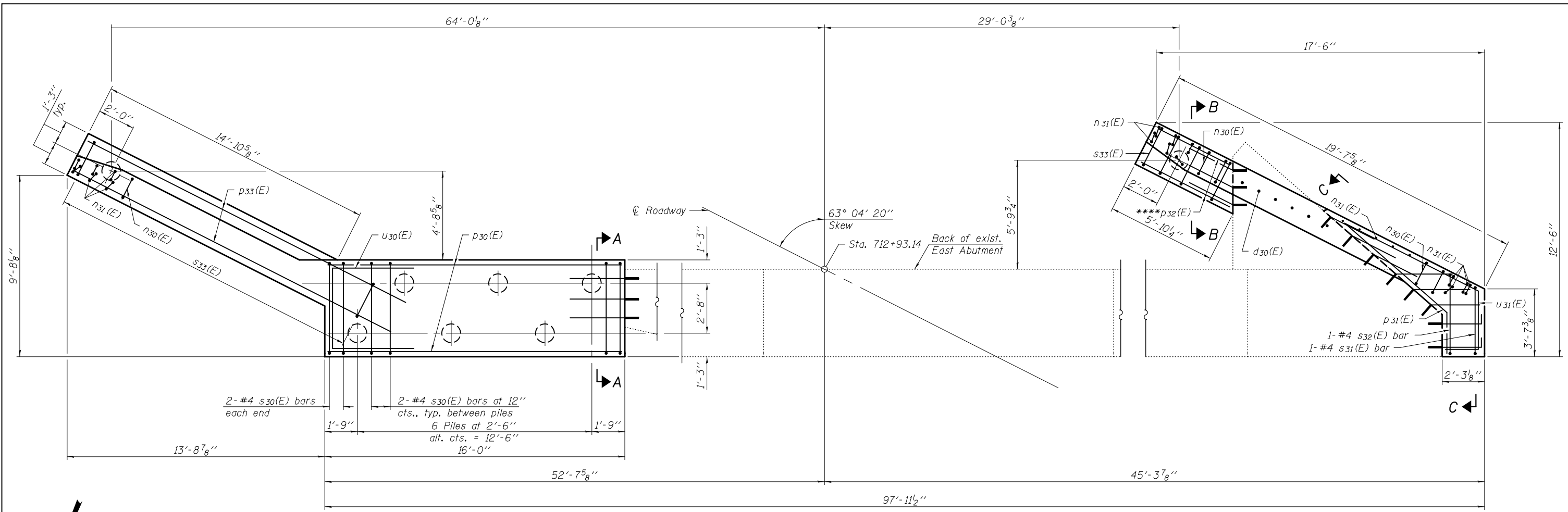
ENGINEER OF BRIDGES AND STRUCTURES  
 DATE - MAY 15, 2017  
 REVISED  
 REVISED

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

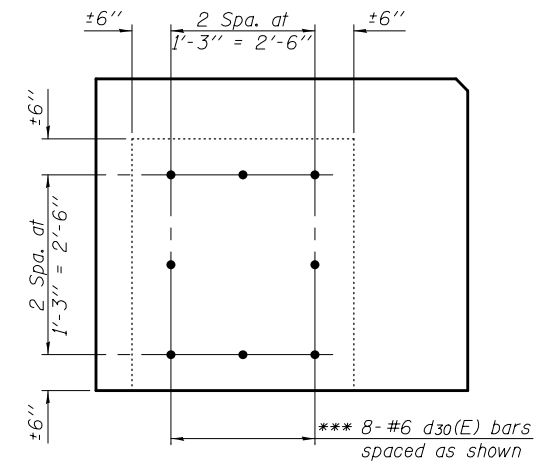
EAST ABUTMENT  
 STRUCTURE NO. 026 - 0022

SHEET NO. 42 OF 52 SHEETS

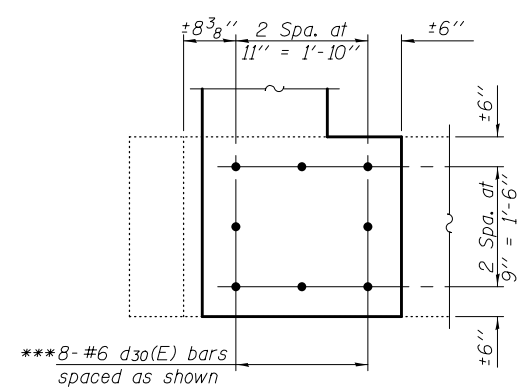
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(26-3VB1)BR-1	FAYETTE	103	59
CONTRACT NO. 74518				
ILLINOIS FED. AID PROJECT				



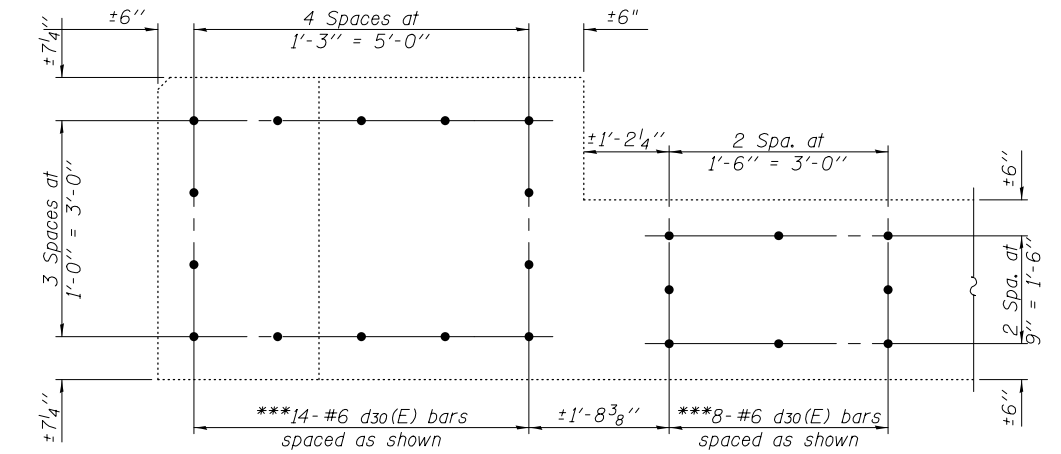
PLAN - PILE CAP



VIEW A-A



VIEW B-B



VIEW C-C

(Proposed wingwall omitted for clarity).

\*\*\* Epoxy grout d30(E) bars in 9" min. drilled holes according to Section 584 of the Standard Specifications. Edge distance shall be a minimum of 4", unless otherwise shown. Bend to fit as required.  
 \*\*\*\* Cut p32(E) bars to fit.

SDATES \$TIMES

DESIGNED - JOSUE D. ORTIZ-VARELA
CHECKED - NICHOLAS R. BARNETT
DRAWN - MICHAEL B. MOSSMAN
CHECKED - J.O.V. / N.R.B. / G.R.A.

EXAMINED	 ENGINEER OF BRIDGE DESIGN
PASSED	
ENGINEER OF BRIDGES AND STRUCTURES	

DATE - MAY 15, 2017
REVISED
REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

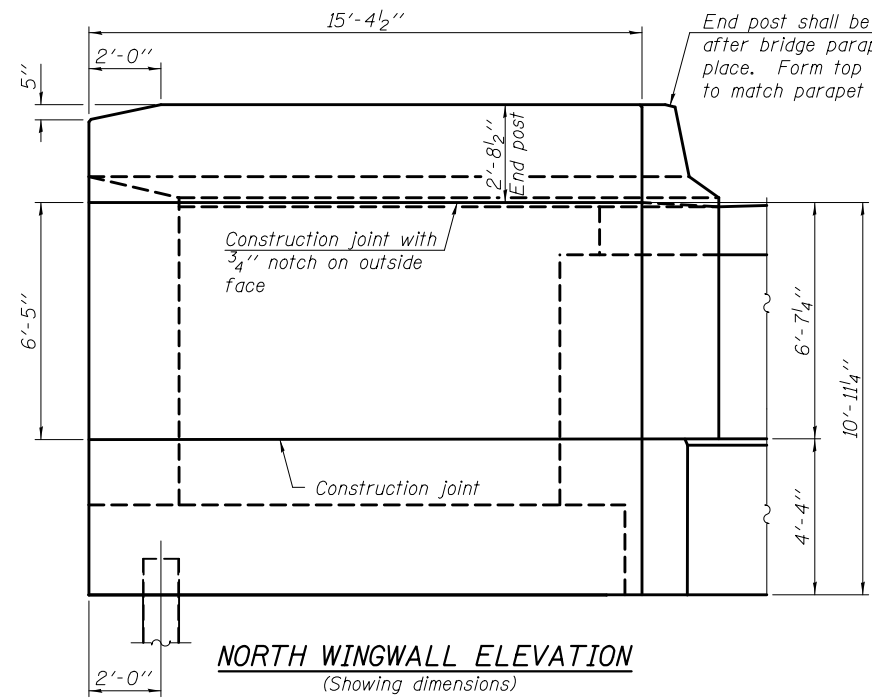
EAST ABUTMENT DETAILS  
STRUCTURE NO. 026 - 0022

SHEET NO. 43 OF 52 SHEETS

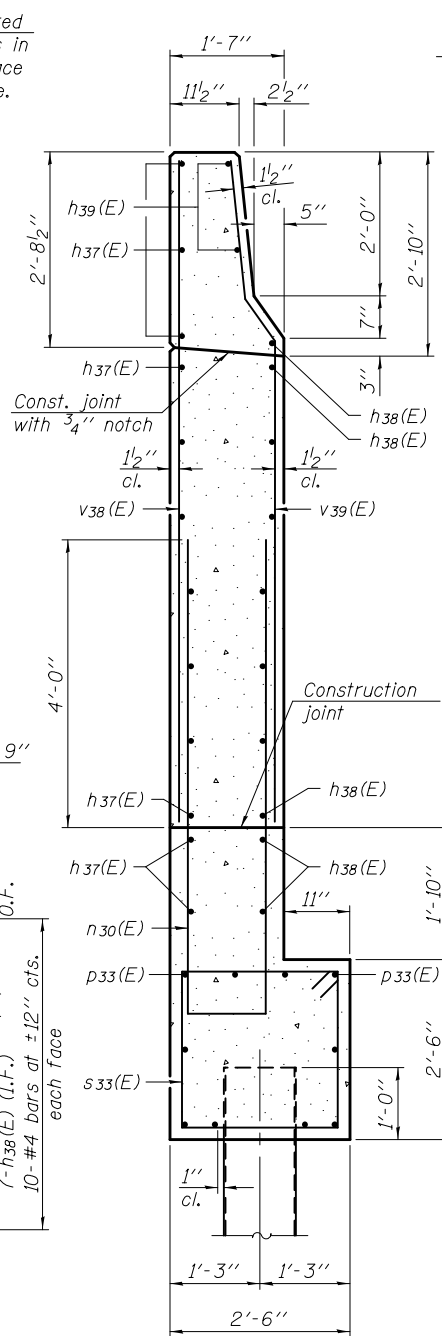
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(26-3VB)BR-1	FAYETTE	103	60
CONTRACT NO. 74518				

ILLINOIS FED. AID PROJECT

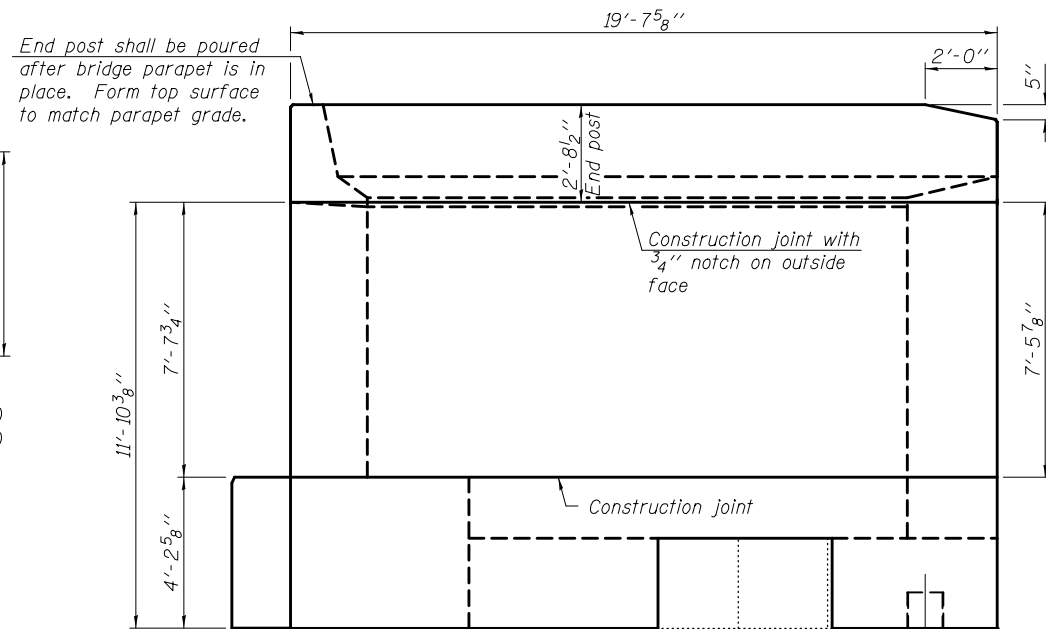
SDATES STIMES



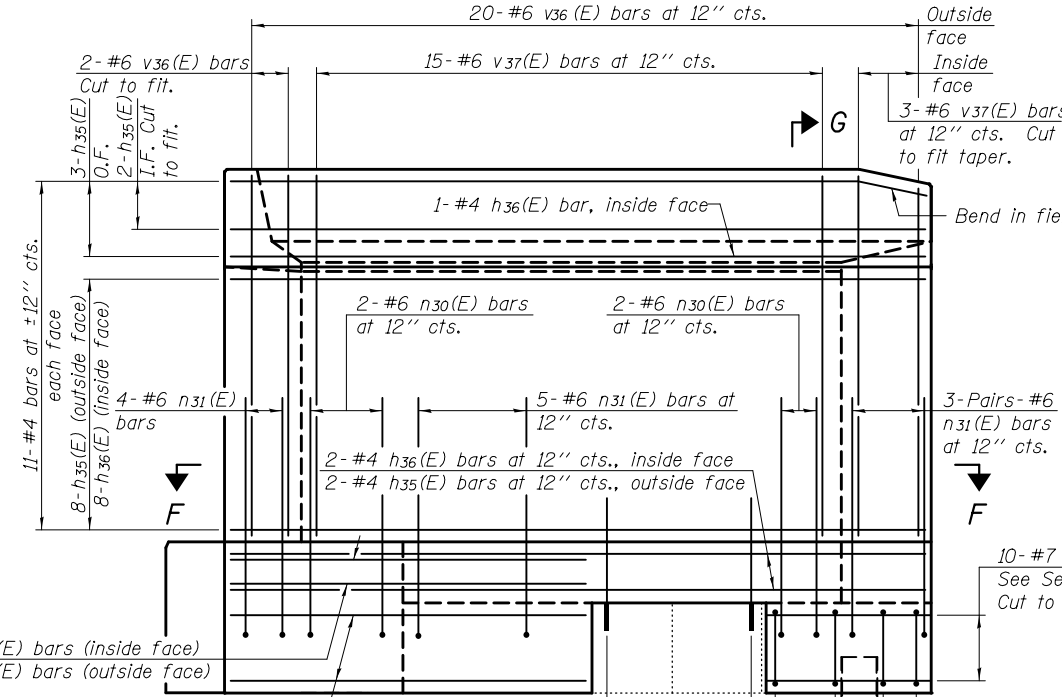
**NORTH WINGWALL ELEVATION**  
(Showing dimensions)



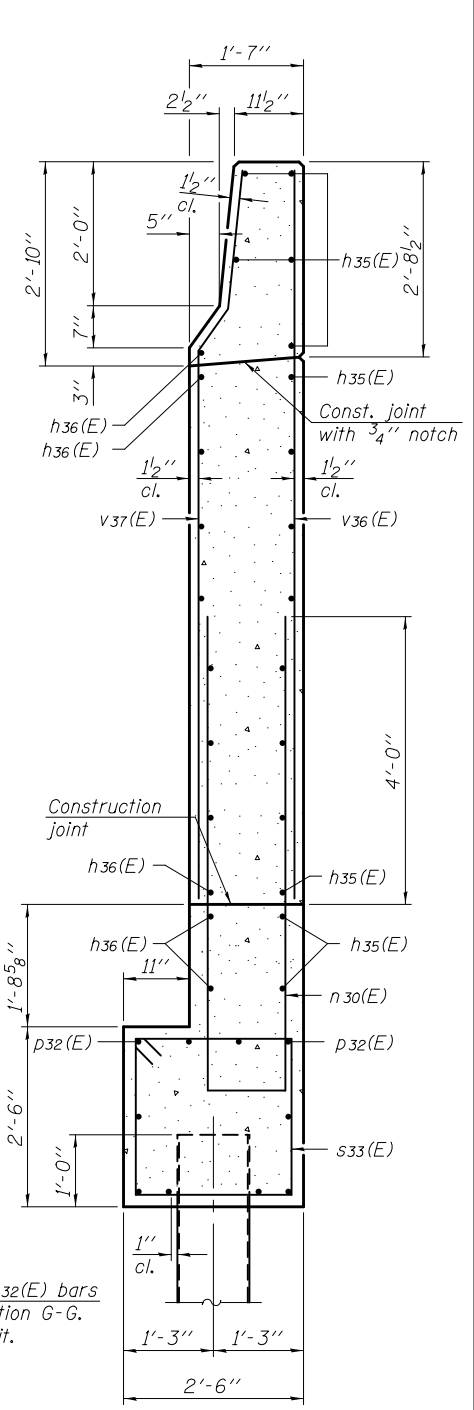
**SECTION E-E**



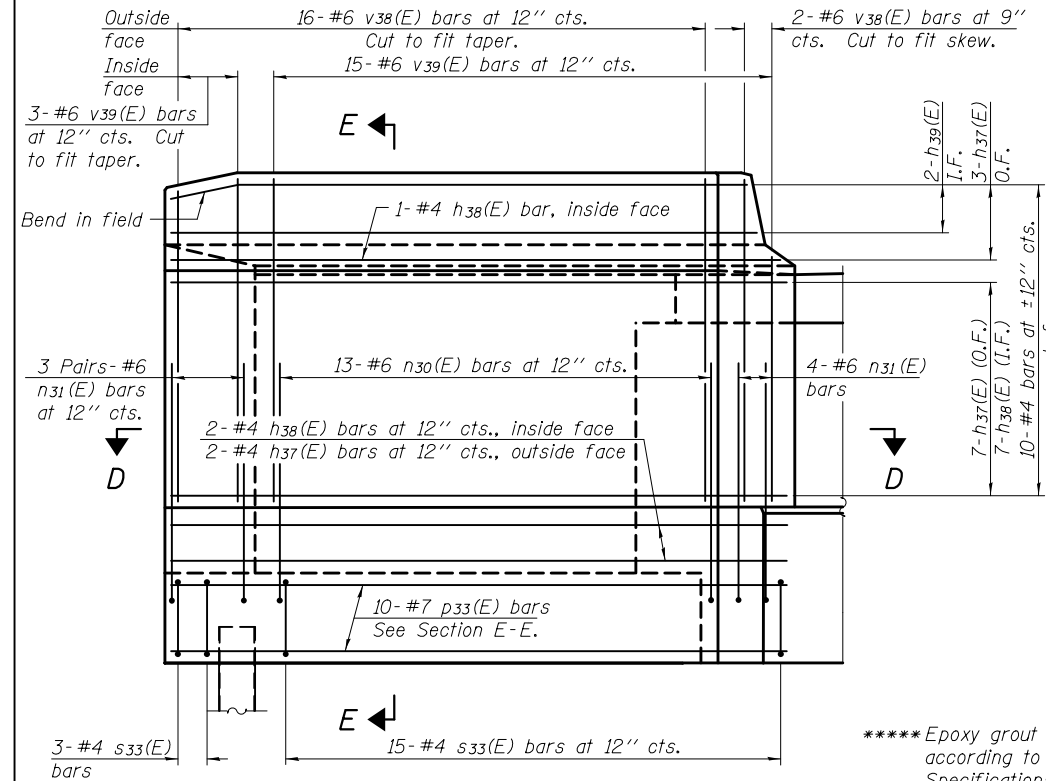
**SOUTH WINGWALL ELEVATION**  
(Showing dimensions)



**SOUTH WINGWALL ELEVATION**  
(Showing reinforcement)



**SECTION G-G**



**NORTH WINGWALL ELEVATION**  
(Showing reinforcement)

\*\*\*\*\*Epoxy grout d30(E) bars in 9" min. drilled holes according to Section 584 of the Standard Specifications. Edge distance shall be a minimum of 4", unless otherwise shown. Bend to fit as required.

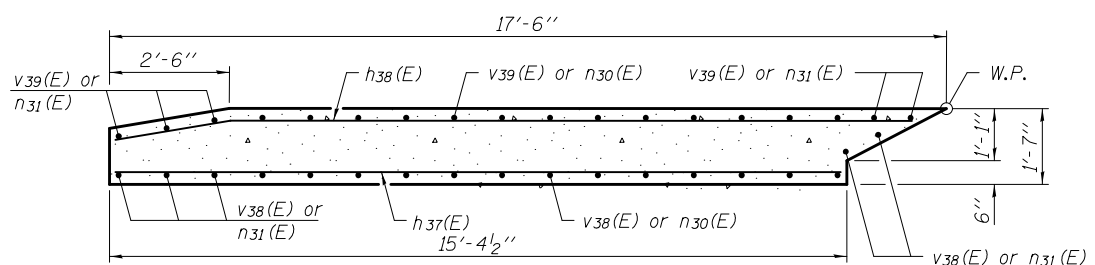
2-#7 p31(E) bars (inside face)  
2-#7 u31(E) bars (outside face)

3-#7 p31(E) bars (inside face)  
3-#7 u31(E) bars (outside face)

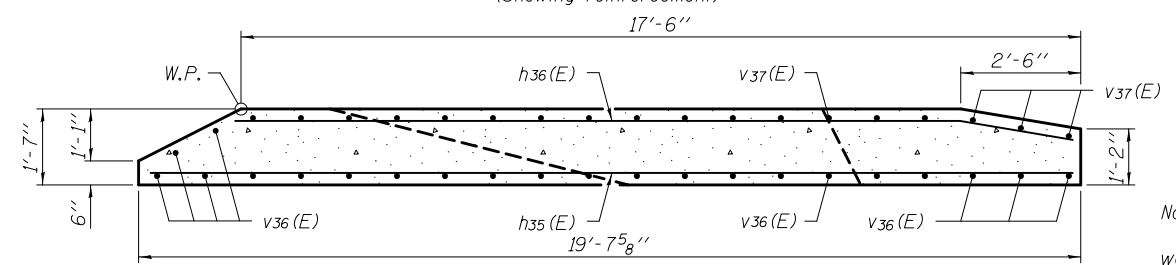
\*\*\*\*\* 6-#6 d30(E) bars at 12" cts.

3-#4 s33(E) bars at 12" cts.

10-#7 p32(E) bars See Section G-G. Cut to fit.



**SECTION D-D**



**SECTION F-F**

Note: n30(E), n31(E) and d30(E) bar locations were omitted in Section F-F. See Plan-Pile Cap on sheet 43 of 52.

DESIGNED - JOSUE D. ORTIZ-VARELA	EXAMINED - <i>Jaime F. Joffe</i>	DATE - MAY 15, 2017
CHECKED - NICHOLAS R. BARNETT	ENGINEER OF BRIDGE DESIGN	
DRAWN - MICHAEL B. MOSSMAN	PASSED - <i>Carl Ringer</i>	
CHECKED - J.O.V. / N.R.B. / G.R.A.	ENGINEER OF BRIDGES AND STRUCTURES	

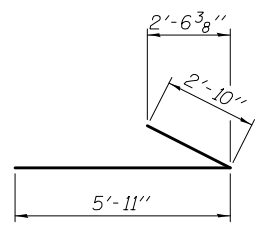
REVISIONS	
REVISIONS	

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

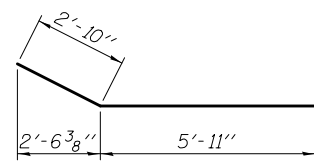
**EAST ABUTMENT DETAILS**  
**STRUCTURE NO. 026 - 0022**

SHEET NO. 44 OF 52 SHEETS

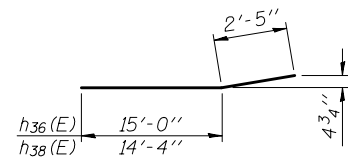
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(26-3VB1)BR-1	FAYETTE	103	31
CONTRACT NO. 74518				
ILLINOIS FED. AID PROJECT				



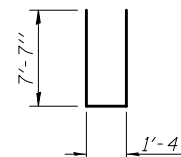
BAR h30(E)



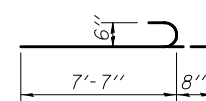
BAR h31(E)



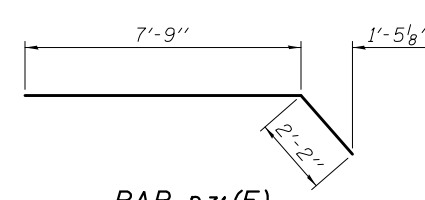
BARS h36(E) & h38(E)



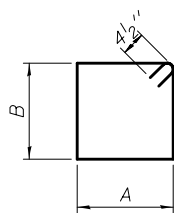
BAR n30(E)



BAR n31(E)

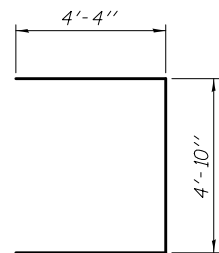


BAR p31(E)

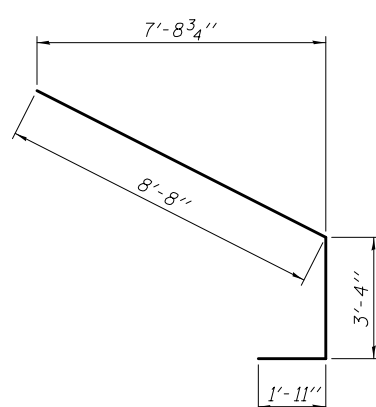


BARS s30(E) thru s33(E)

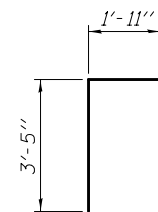
Bar	A	B
s30(E)	4'-10"	4'-0"
s31(E)	3'-3"	3'-10"
s32(E)	4'-4"	3'-10"
s33(E)	2'-2"	2'-2"



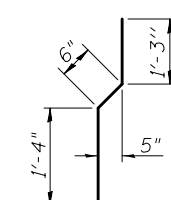
BAR u30(E)



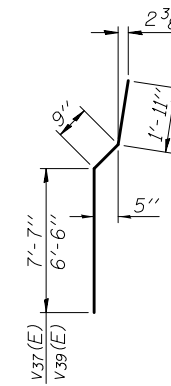
BAR u31(E)



BAR v30(E)



BAR v31(E)

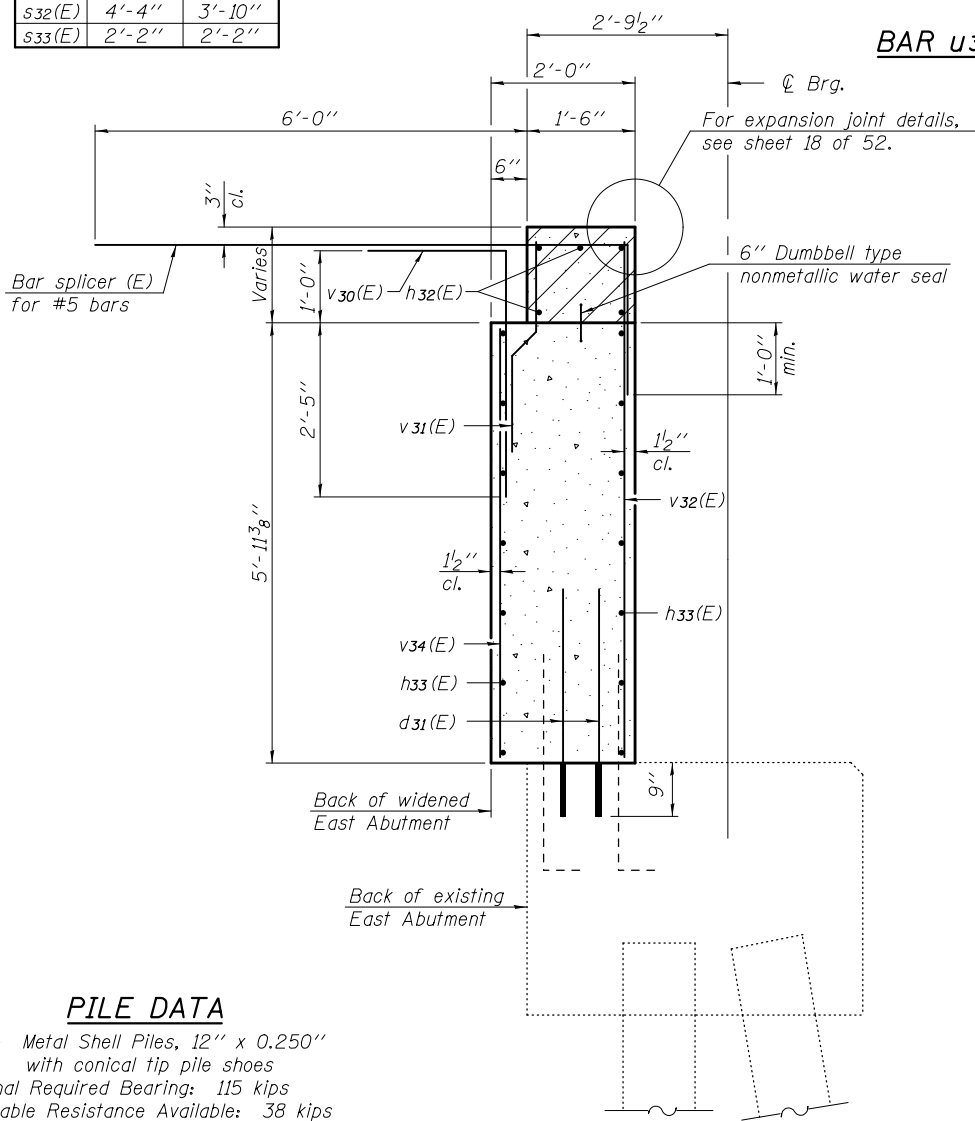


BARS v37(E) & v39(E)

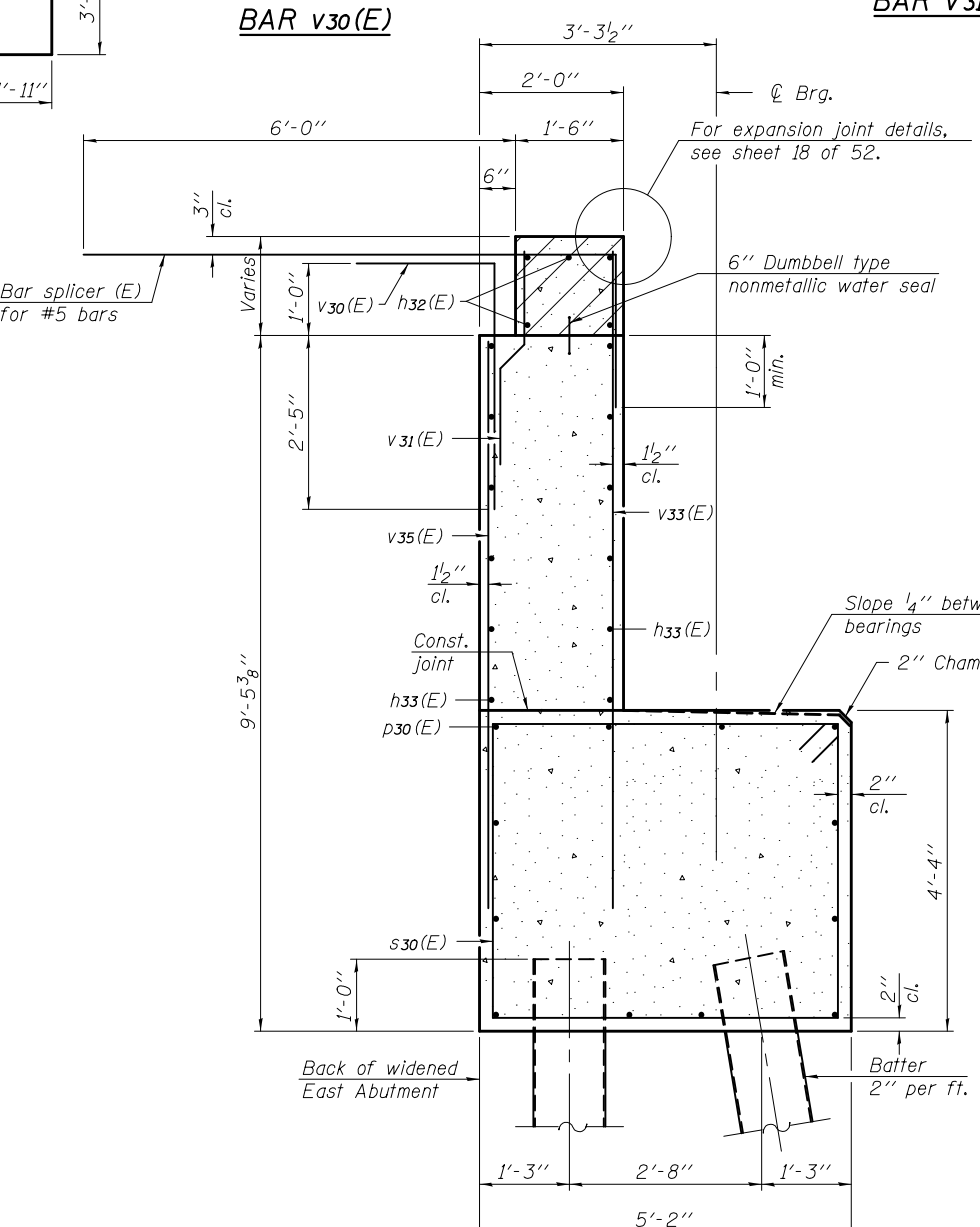
Notes:  
 Hatched area to be poured after superstructure false work has been removed. Quantity of concrete included with Concrete Superstructure.  
 Space reinforcement in cap to miss anchor bolts. Quantity of concrete in end post included with Concrete Superstructure on sheet 17 of 52.  
 For details of metal shell reinforcement, see sheet 48 of 52.

**EAST ABUTMENT  
 BILL OF MATERIAL**

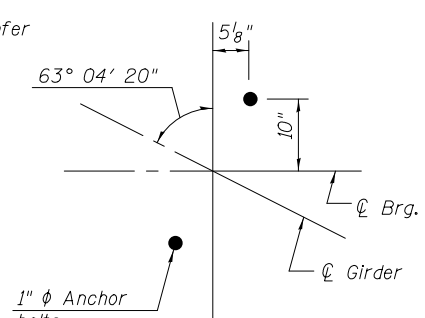
Bar	No.	Size	Length	Shape
d30(E)	44	#6	4'-1"	—
d31(E)	154	#5	3'-6"	—
h30(E)	16	#5	8'-9"	↘
h31(E)	14	#5	8'-9"	↘
h32(E)	10	#6	48'-5"	—
h33(E)	12	#5	48'-0"	—
h34(E)	4	#5	41'-4"	—
h35(E)	15	#4	19'-3"	—
h36(E)	11	#4	17'-5"	—
h37(E)	12	#4	15'-0"	—
h38(E)	10	#4	16'-9"	—
h39(E)	2	#4	15'-7"	—
n30(E)	17	#6	16'-6"	U
n31(E)	25	#6	8'-3"	U
p30(E)	12	#7	15'-8"	—
p31(E)	5	#7	9'-11"	—
p32(E)	10	#7	5'-5"	—
p33(E)	10	#7	19'-0"	—
s30(E)	14	#4	18'-5"	□
s31(E)	1	#4	14'-11"	□
s32(E)	1	#4	17'-1"	□
s33(E)	24	#4	9'-5"	□
u30(E)	5	#6	13'-6"	U
u31(E)	5	#7	13'-11"	U
v30(E)	93	#5	5'-4"	↘
v31(E)	93	#4	3'-1"	↘
v32(E)	78	#5	6'-11"	—
v33(E)	14	#5	9'-0"	—
v34(E)	76	#5	5'-7"	—
v35(E)	17	#5	7'-5"	—
v36(E)	22	#6	10'-1"	—
v37(E)	18	#6	10'-3"	—
v38(E)	18	#6	8'-11"	—
v39(E)	18	#6	9'-2"	—
Structure Excavation			Cu. Yd.	319
Concrete Structures			Cu. Yd.	77.7
Reinforcement Bars, Epoxy Coated			Pound	8,560
Furnishing Metal Shell Piles, 12" x 0.250"			Foot	224
Driving Piles			Foot	224
Pile Shoes			Each	8
Concrete Sealer			Sq. Ft.	838



SECTION H-H



SECTION I-I



DETAIL A  
 Space Reinforcement in cap to miss anchor bolts.

**PILE DATA**  
 Type: Metal Shell Piles, 12" x 0.250"  
 with conical tip pile shoes  
 Nominal Required Bearing: 115 kips  
 Allowable Resistance Available: 38 kips  
 Est. Length: 28 ft.  
 No. Production Piles: 8

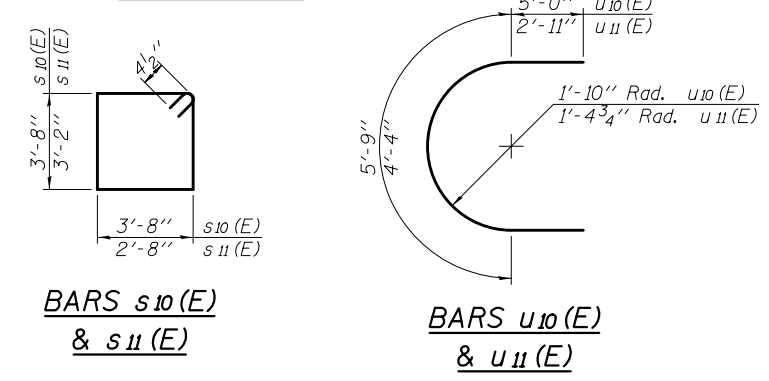
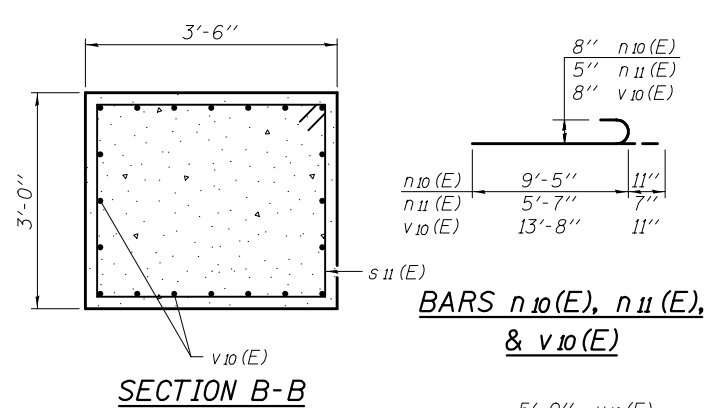
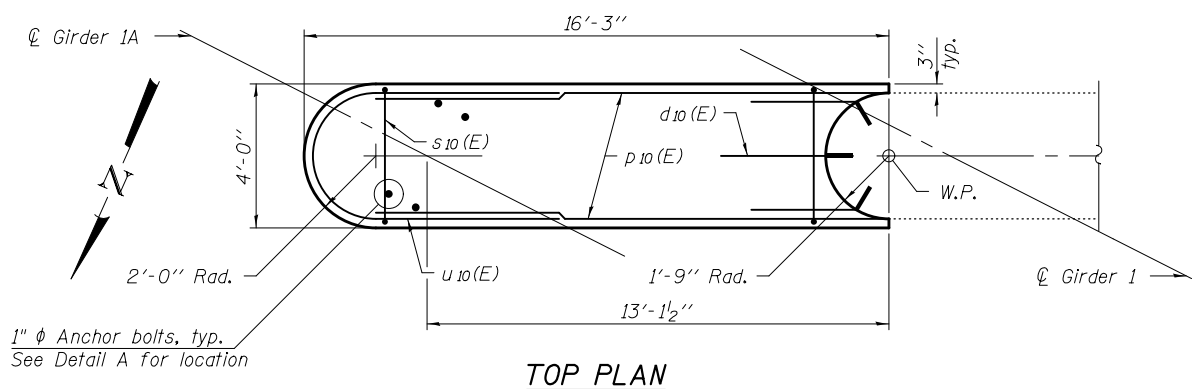
For details of Bar Splicers, see sheet 49 of 52.  
 For details of piles, see sheet 48 of 52.

SDATES -STIMES

Notes:  
 Space reinforcement in cap to miss anchor bolts.  
 For details of piles, see sheet 48 of 52.

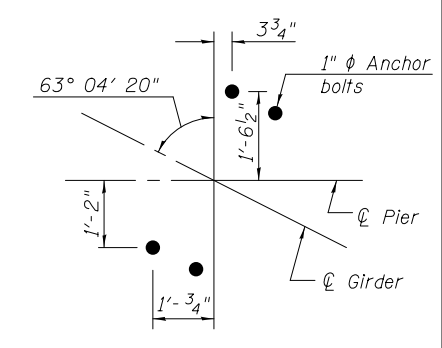
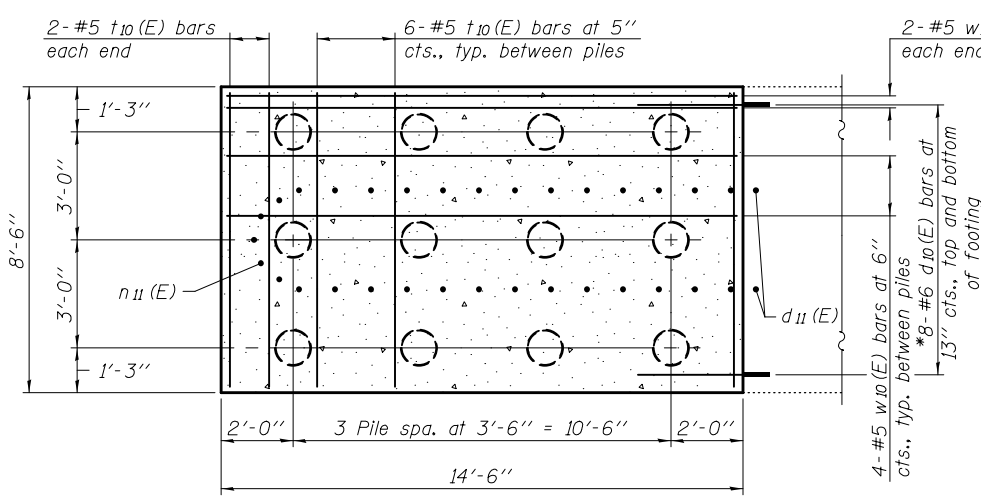
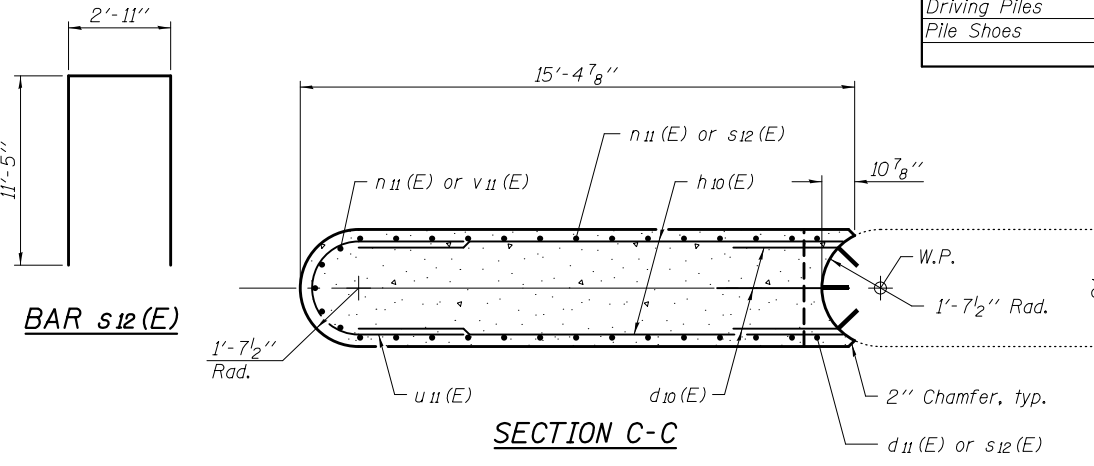
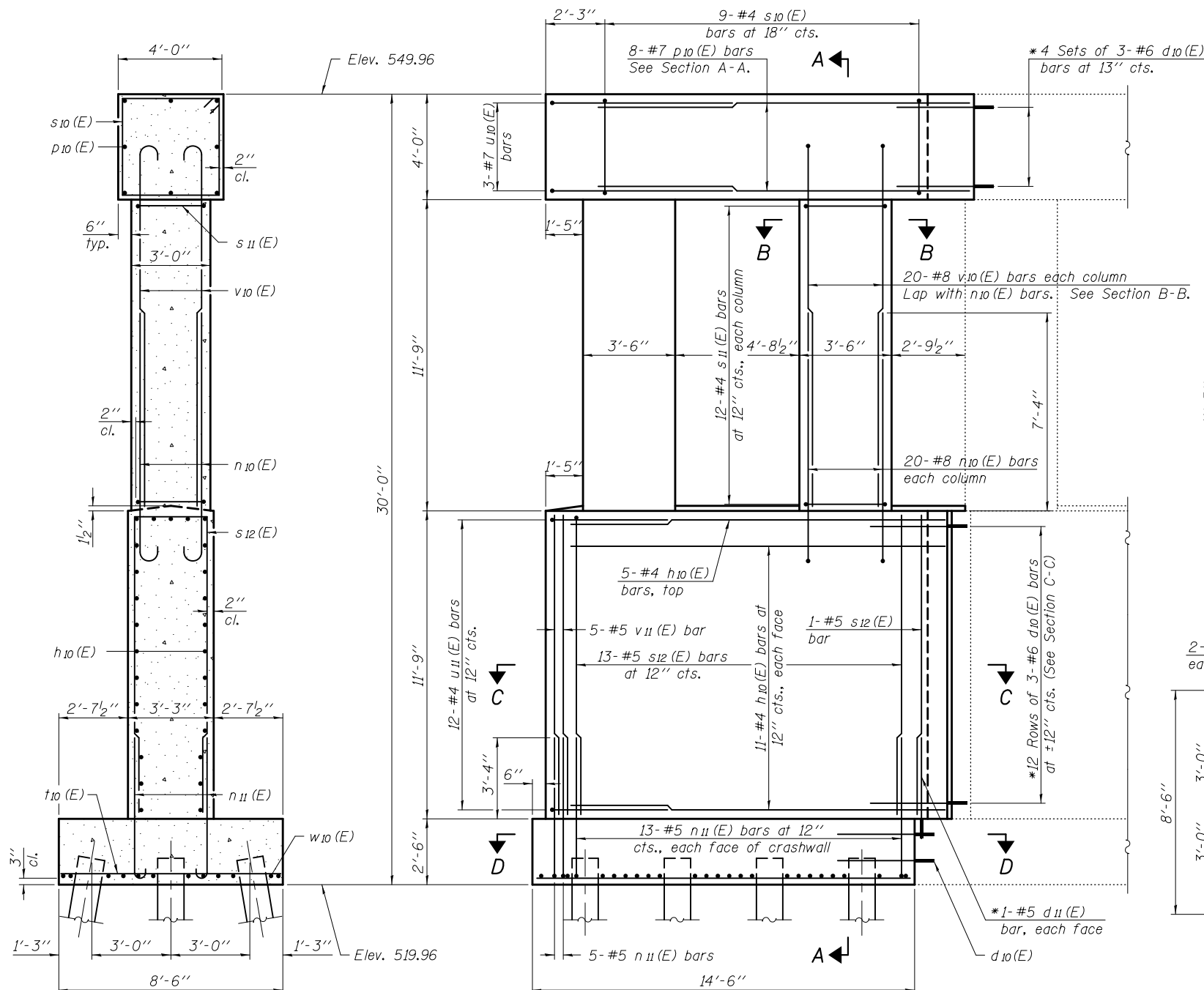
**PILE DATA**

Type: Metal Shell Piles, 12" x 0.250" with conical tip pile shoes  
 Nominal Required Bearing: 193 kips  
 Allowable Resistance Available: 64 kips  
 Est. Length: 17 ft.  
 No. Production Piles: 12



**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
d10(E)	64	#6	4'-1"	—
d11(E)	2	#5	4'-1"	—
h10(E)	27	#4	13'-6"	—
n10(E)	40	#8	10'-4"	—
n11(E)	31	#5	6'-2"	—
p10(E)	8	#7	13'-7"	—
s10(E)	9	#4	15'-5"	□
s11(E)	24	#4	12'-5"	□
s12(E)	14	#5	25'-9"	□
t10(E)	22	#5	8'-2"	—
u10(E)	3	#7	15'-9"	C
u11(E)	12	#4	10'-2"	C
v10(E)	40	#8	14'-7"	—
v11(E)	5	#5	11'-5"	—
w10(E)	12	#5	14'-2"	—
Structure Excavation			Cu. Yd.	32
Concrete Structures			Cu. Yd.	49.7
Reinforcement Bars, Epoxy Coated			Pound	5,000
Furnishing Metal Shell Piles, 12" x 0.250"			Foot	204
Driving Piles			Foot	204
Pile Shoes			Each	12



\* Epoxy grout d10(E) and d11(E) bars in 9" min. drilled holes according to Section 584 of the Standard Specifications. Edge distance shall be a minimum of 4". Bend to fit as required prior to grouting.

SDATES STIMES

DESIGNED - JOSUE D. ORTIZ-VARELA	EXAMINED - <i>Jaime F. J...</i>	DATE - MAY 15, 2017
CHECKED - NICHOLAS R. BARNETT	PASSED - <i>Carl...</i>	REVISIONS
DRAWN - MICHAEL B. MOSSMAN		
CHECKED - J.O.V. / N.R.B. / G.R.A.		

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PIER 1 EXTENSION  
 STRUCTURE NO. 026 - 0022**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(26-3VB1)BR-1	FAYETTE	103	63
CONTRACT NO. 74518				

SHEET NO. 46 OF 52 SHEETS

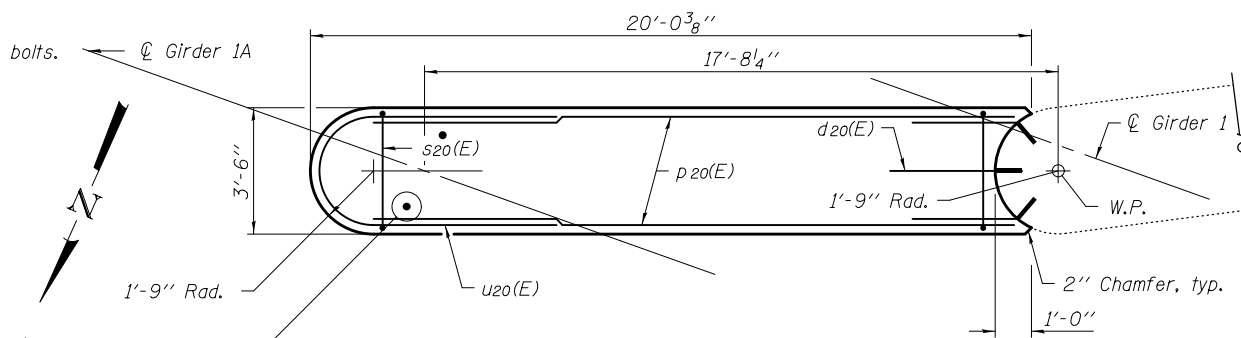
ILLINOIS FED. AID PROJECT

Notes:  
 Space reinforcement in cap to miss anchor bolts.  
 Pour steps monolithically with cap.  
 For details of piles, see sheet 48 of 52.

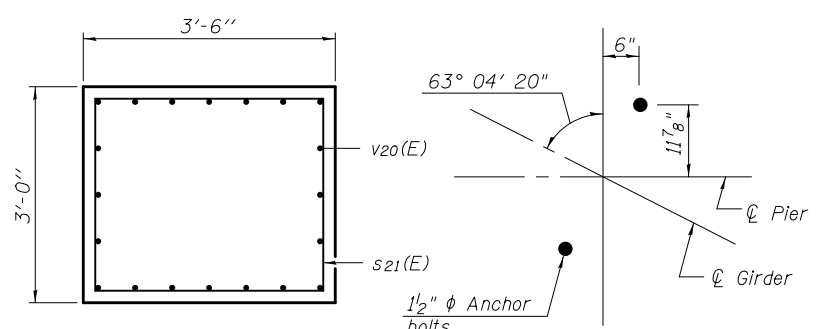
**PILE DATA**

Type: Metal Shell Piles, 12" x 0.250"  
 with conical tip pile shoes  
 Nominal Required Bearing: 217 kips  
 Allowable Resistance Available: 72 kips  
 Est. Length: 15 ft.  
 No. Production Piles: 14  
 Test Piles: 1

1/2"  $\phi$  Anchor bolts, typ.  
 See Detail A For location



**TOP PLAN**

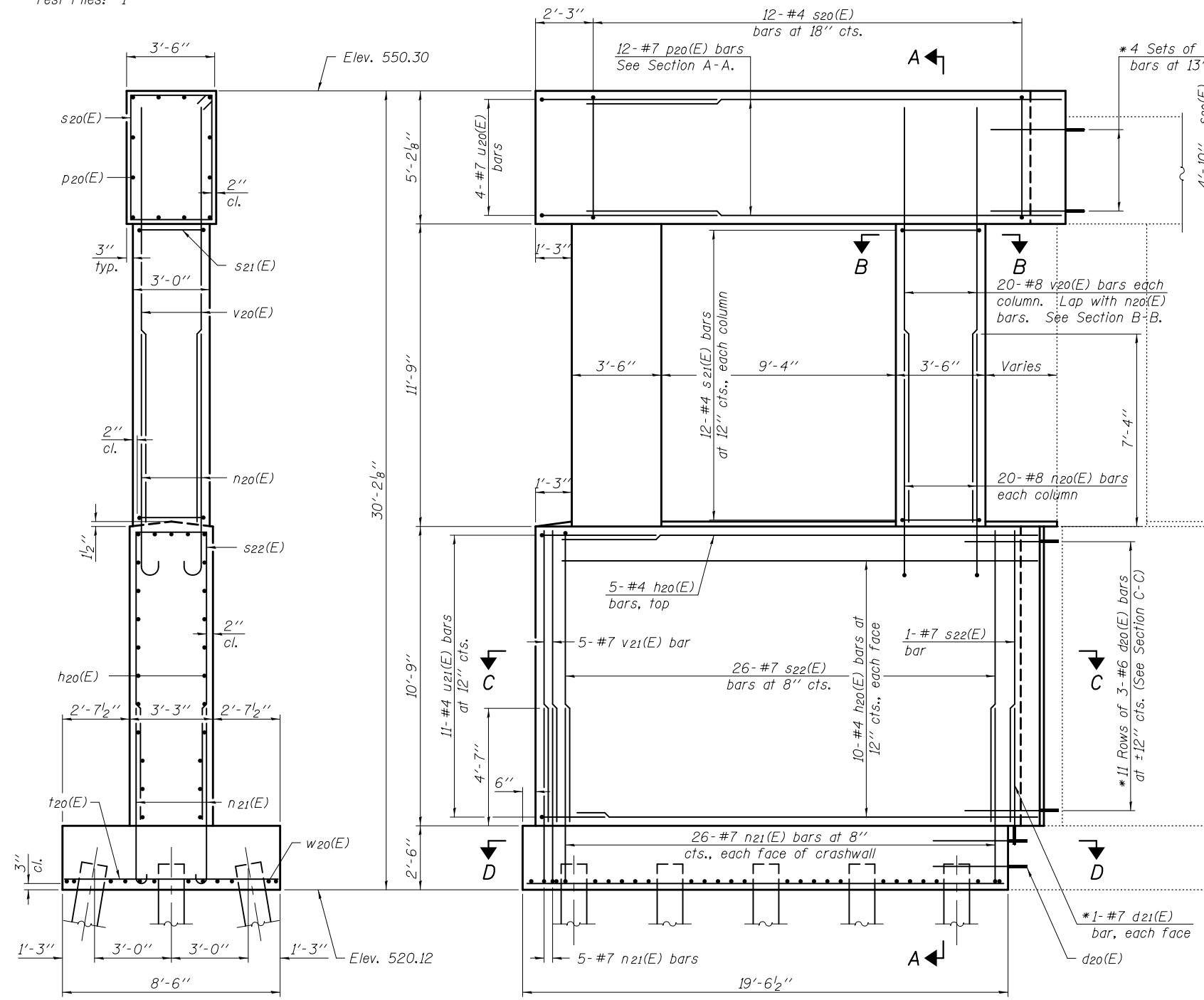


**SECTION B-B**

**DETAIL A**

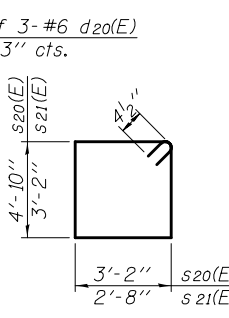
**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
d20(E)	61	#6	4'-1"	—
d21(E)	2	#7	5'-4"	—
h20(E)	25	#4	17'-11"	—
n20(E)	40	#8	10'-4"	—
n21(E)	57	#7	7'-3"	—
p20(E)	12	#7	17'-11"	—
s20(E)	12	#4	16'-9"	□
s21(E)	24	#4	12'-5"	□
s22(E)	27	#7	23'-9"	□
t20(E)	25	#5	8'-2"	—
u20(E)	4	#7	14'-11"	—
u21(E)	11	#4	10'-2"	—
v20(E)	40	#8	15'-6"	—
v21(E)	5	#7	10'-5"	—
w20(E)	12	#5	19'-2"	—
Structure Excavation			Cu. Yd.	70
Concrete Structures			Cu. Yd.	61.5
Reinforcement Bars, Epoxy Coated			Pound	7,140
Furnishing Metal Shell Piles, 12" x 0.250"			Foot	210
Driving Piles			Foot	210
Pile Shoes			Each	15
Test Pile Metal Shells			Each	1

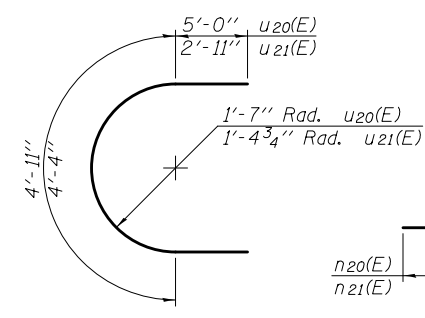


**ELEVATION**

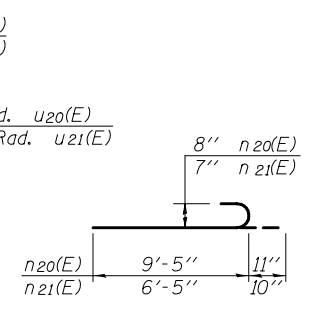
**SECTION A-A**



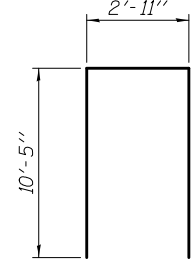
**BARS s20(E) & s21(E)**



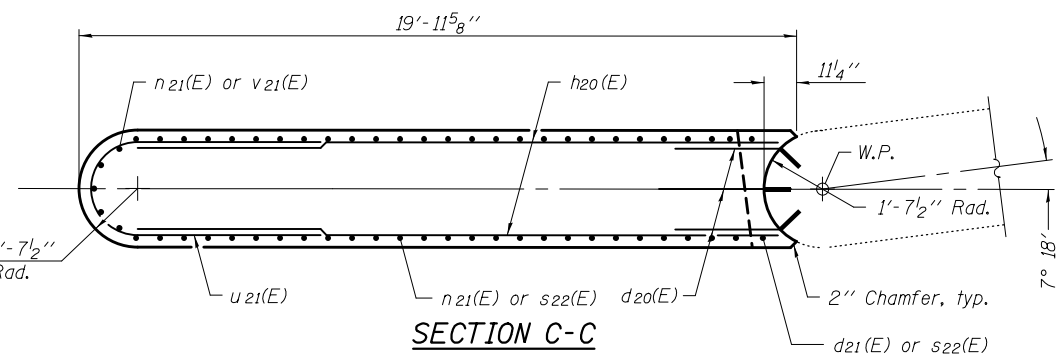
**BARS u20(E) & u21(E)**



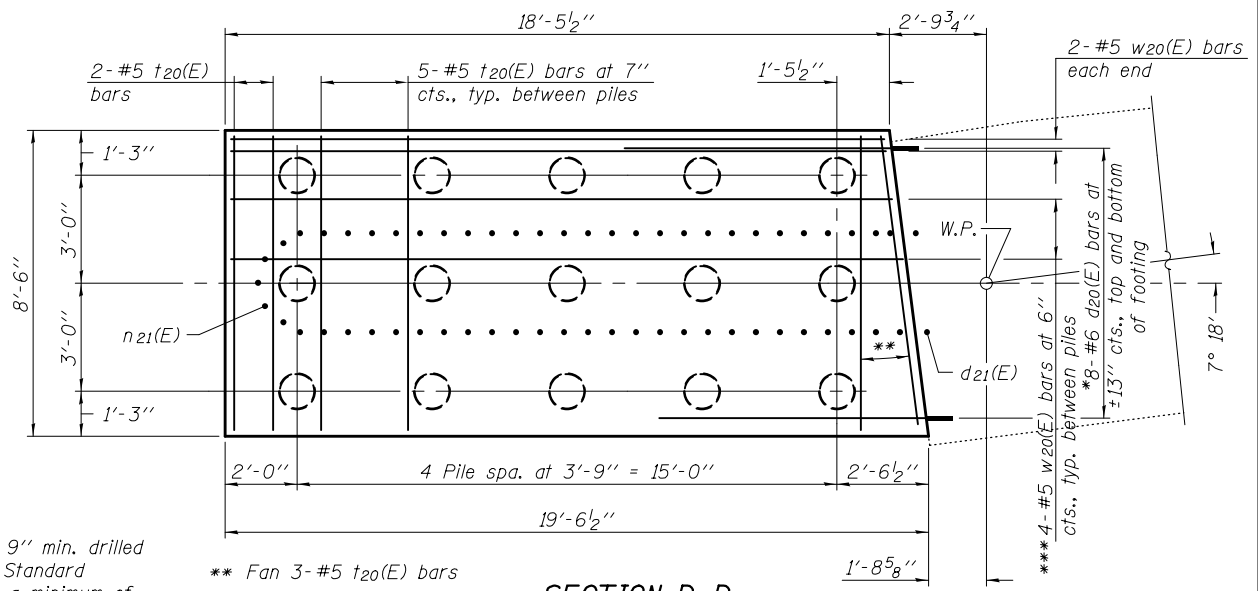
**BARS n20(E) & n21(E)**



**BAR s22(E)**



**SECTION C-C**



**SECTION D-D**

\* Epoxy grout d20(E) and d21(E) bars in 9" min. drilled holes according to Section 584 of the Standard Specifications. Edge distance shall be a minimum of 4". Bend to fit as required prior to grouting.

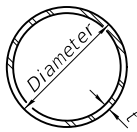
\*\* Fan 3-#5 t20(E) bars

\*\*\* Cut to fit.

SDATES STIMES

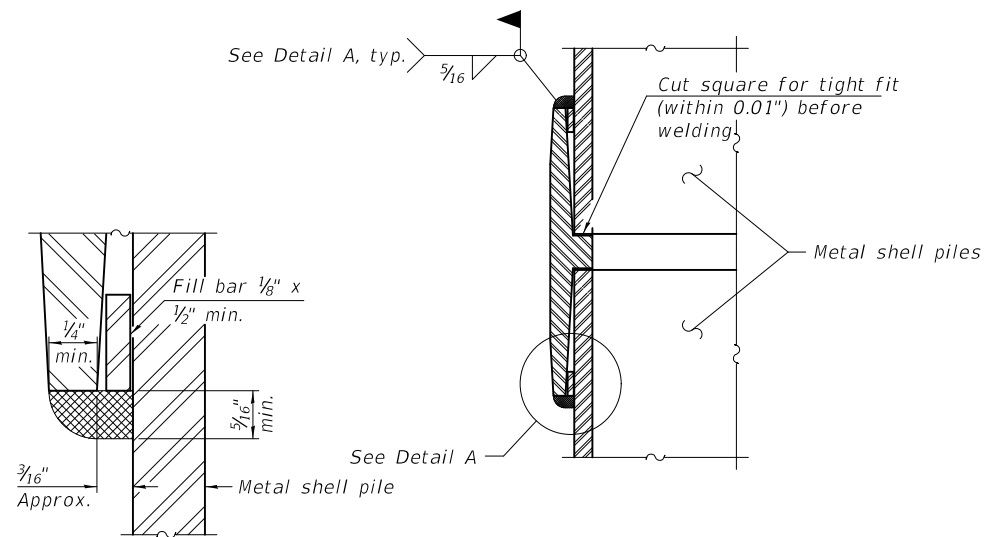
DESIGNED - JOSUE D. ORTIZ-VARELA	EXAMINED - <i>James F. J...</i>	DATE - MAY 15, 2017	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PIER 2 EXTENSION STRUCTURE NO. 026 - 0022</b>	F.A.I. RTE. 70	SECTION (26-3VB1)BR-1	COUNTY FAYETTE	TOTAL SHEETS 103	SHEET NO. 64	
CHECKED - NICHOLAS R. BARNETT	PASSED - <i>Carl...</i>	REVISOR			CONTRACT NO. 74518			ILLINOIS FED. AID PROJECT		
DRAWN - MICHAEL B. MOSSMAN	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR			SHEET NO. 47 OF 52 SHEETS					
CHECKED - J.O.V. / N.R.B. / G.R.A.		REVISOR								



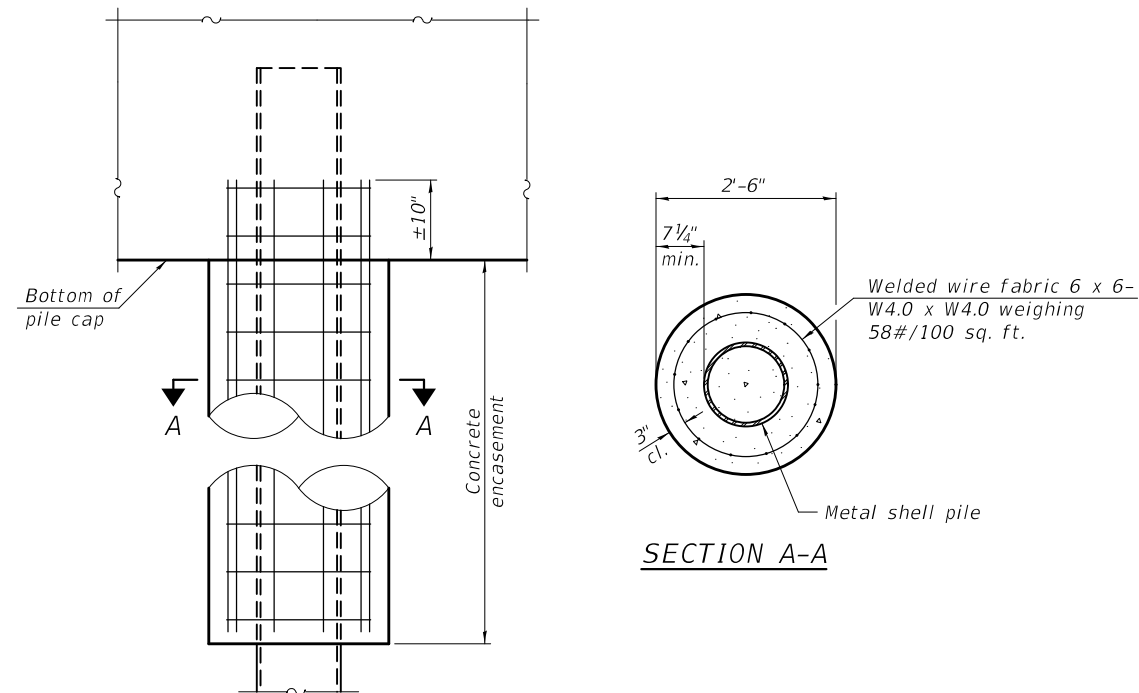


**METAL SHELL PILE TABLE**

Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. <sup>3</sup> /ft.)
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361
PP16	0.312"	52.32	0.0478
PP16	0.375"	62.64	0.0470



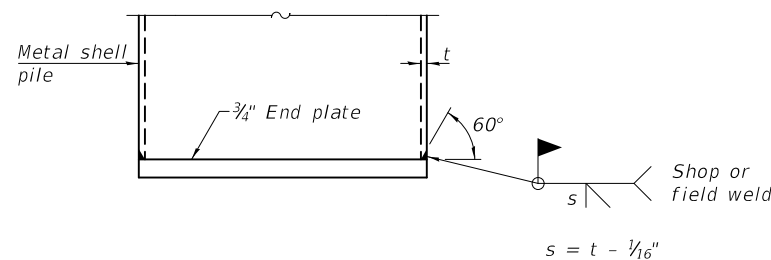
**DETAIL A**



**ELEVATION**

**SECTION A-A**

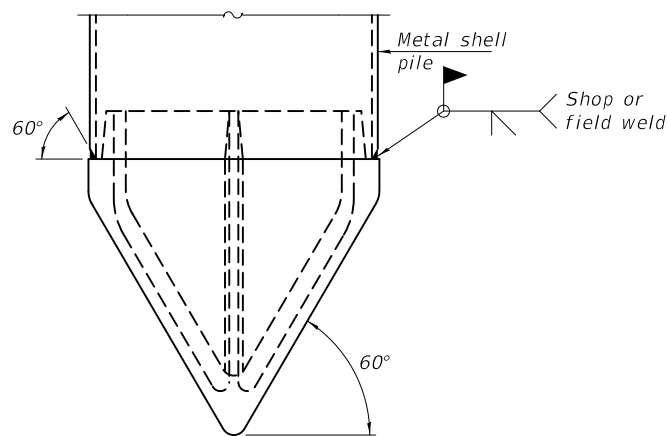
**INDIVIDUAL PILE CONCRETE ENCASEMENT AT PIERS**



**END PLATE ATTACHMENT**

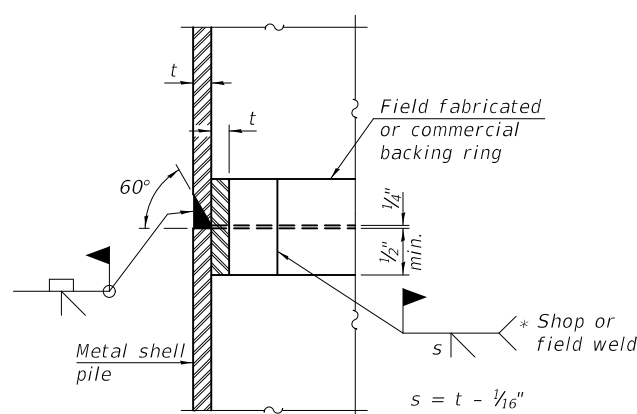
**WELDED COMMERCIAL SPLICE**

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.



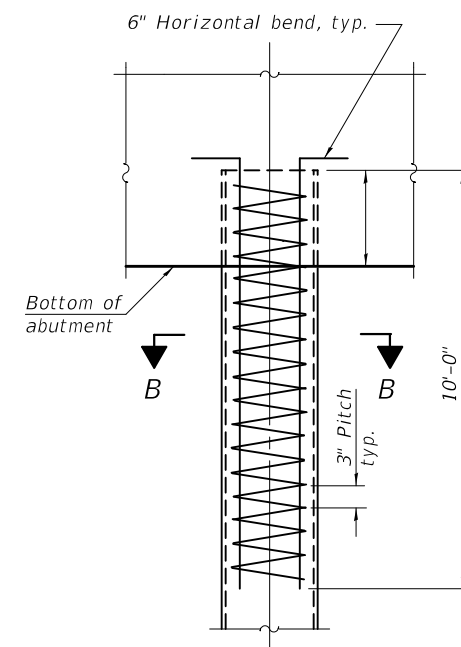
**PILE SHOE ATTACHMENT**

(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).

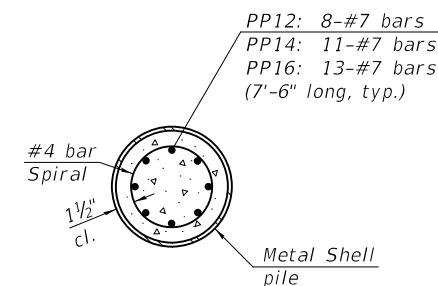


**COMPLETE PENETRATION WELD SPLICE**

\* 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**

**REINFORCEMENT AT ABUTMENTS**

Note:  
 The metal shell piles shall be according to Article 1006.05 of the Standard Specifications.

SDATES \$TIMES

F-MS 2-17-2017

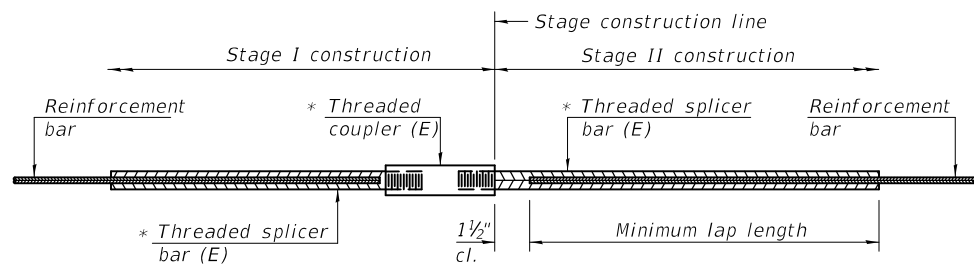
DESIGNED - Josue D. Ortiz-Varela	EXAMINED	DATE - MAY 15, 2017
CHECKED - Nicholas R. Barnett	PASSED	
DRAWN - R. Laughlin		
CHECKED - J.O.V. / N.R.B. / G.R.A.		

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**METAL SHELL PILE DETAILS  
 STRUCTURE NO. 026-0022**

SHEET NO. 48 OF 52 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(26-3VB)BR-1	FAYETTE	103	65
CONTRACT NO. 74518				
ILLINOIS FED. AID PROJECT				

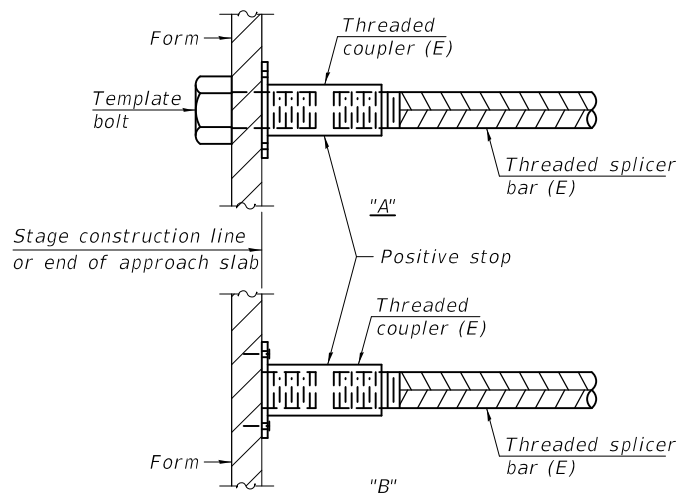


**STANDARD BAR SPLICER ASSEMBLY**

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

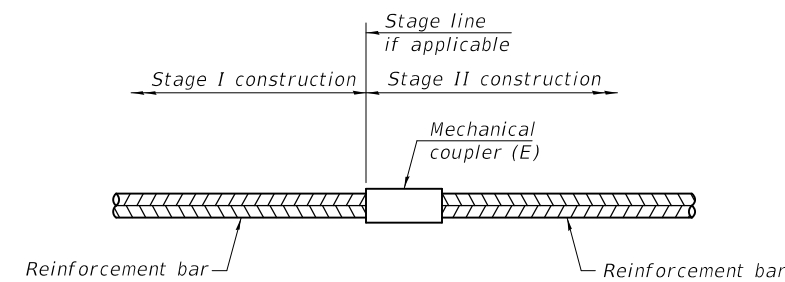
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length



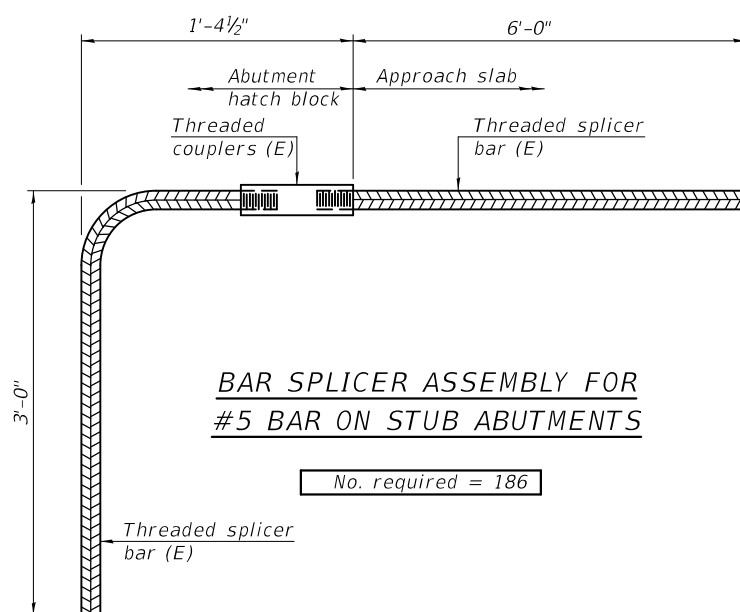
**INSTALLATION AND SETTING METHODS**

"A" : Set bar splicer assembly by means of a template bolt.  
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.  
 (E) : Indicates epoxy coating.



**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required



**BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS**

No. required = 186

**NOTES**

Splicer bars shall be deformed with Threaded ends and have a minimum 60 ksi yield strength.  
 All reinforcement shall be lapped and tied to the splicer bars.  
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.  
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

SDATES \$TIMES

BSD-1

2-17-2017

DESIGNED - Josue D. Ortiz-Varela	EXAMINED	DATE - MAY 15, 2017
CHECKED - Nicholas R. Barnett	PASSED	REVISOR
DRAWN - R. Laughlin		REVISOR
CHECKED - J.O.V. / N.R.B. / G.R.A.		

*Joanne F. Schmitt*  
 ENGINEER OF BRIDGE DESIGN  
*Carl Kasper*  
 ENGINEER OF BRIDGES AND STRUCTURES

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

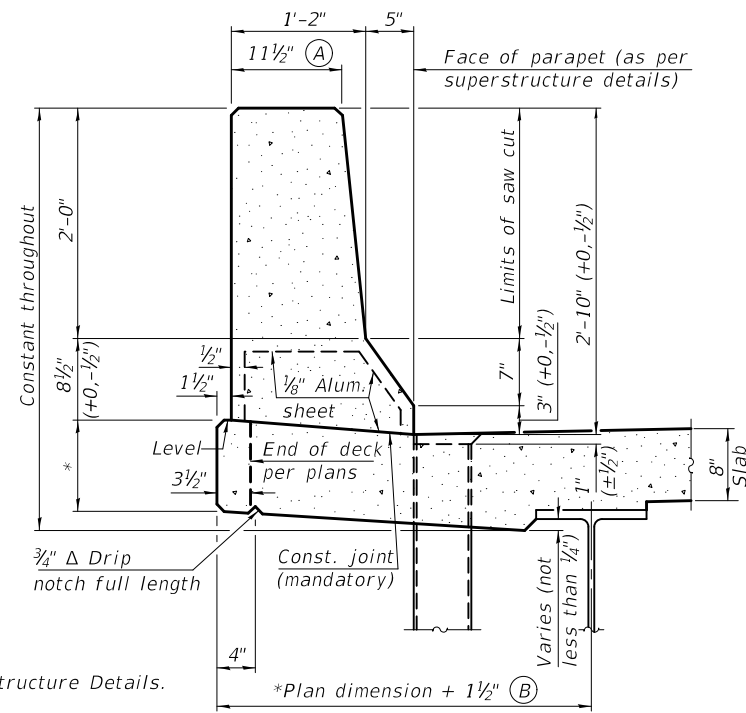
**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS  
 STRUCTURE NO. 026-0022**

SHEET NO. 49 OF 52 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(26-3VB1)BR-1	FAYETTE	103	66
CONTRACT NO. 74518			ILLINOIS FED. AID PROJECT	

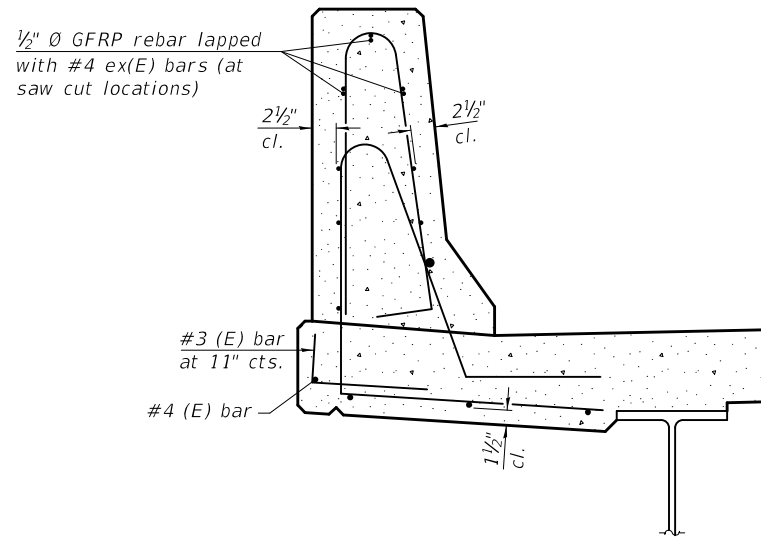
**GENERAL NOTES**

All dimensions shall remain the same as shown on superstructure details, except dimensions A and B which are to be revised as shown to provide additional clearance. Additional concrete needed to revise dimension A and B = 0.0165 cu. yds./ft. for 34" parapet or = 0.0223 cu. yds./ft. for 42" parapet.  
Place aluminum sheet in curb portion at and near piers. Full thickness saw cut at all joint locations in lieu of cork joint filler.  
Steel superstructure shown. Other superstructure types similar.



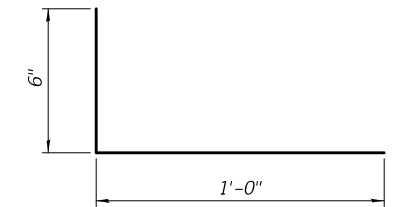
**34" F SHAPE PARAPET SECTION**  
(Showing dimensions)

\*See Superstructure Details.

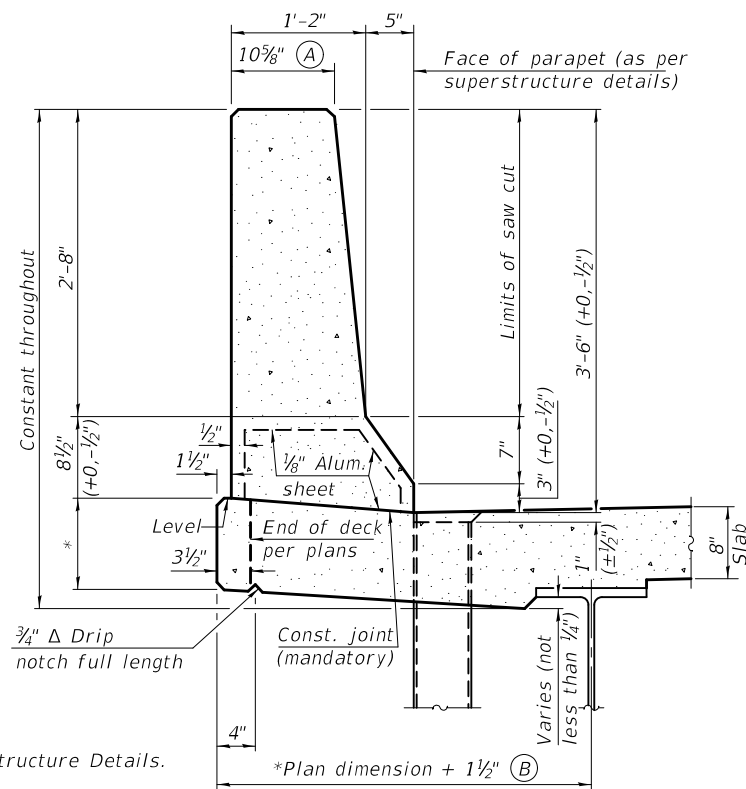


**SECTION**

(34" parapet shown - 42" parapet similar)  
(Showing reinforcement clearances for slip forming and additional reinforcement bars)

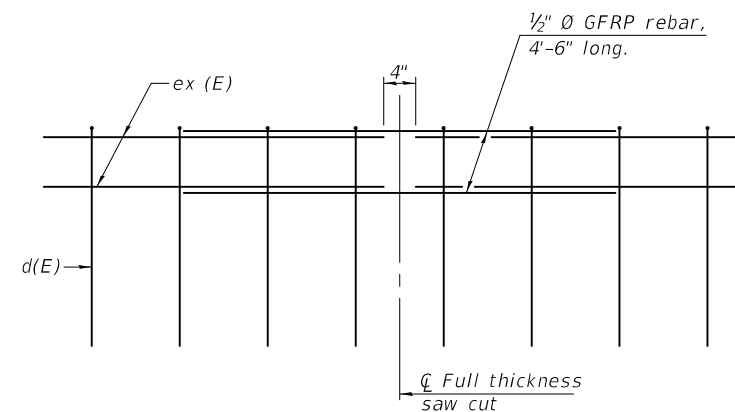


**#3 (E) BAR**



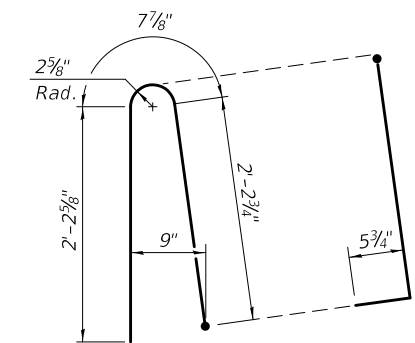
**42" F SHAPE PARAPET SECTION**  
(Showing dimensions)

\*See Superstructure Details.

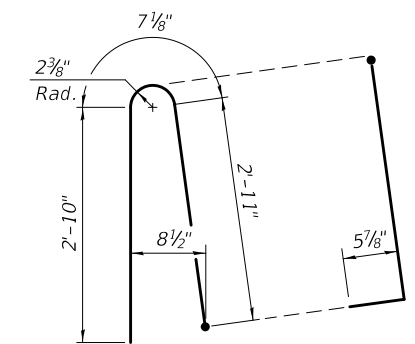


**GFRP REBAR STIFFENING DETAIL**

(Place as shown in parapet section at each parapet joint location.)



**ALTERNATE BAR d(E)**  
(For 34" parapet when conduit is present)



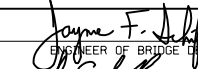

**ALTERNATE BAR d(E)**  
(For 42" parapet when conduit is present)

SDATES \$TIMES

SFP 34-42 2-17-2017

DESIGNED - Josue D. Ortiz-Varela	EXAMINED
CHECKED - Nicholas R. Barnett	PASSED
DRAWN - R. Laughlin	
CHECKED - J.O.V. / N.R.B. / G.R.A.	

DATE - MAY 15, 2017

  
 ENGINEER OF BRIDGE DESIGN  
  
 ENGINEER OF BRIDGES AND STRUCTURES

REVIS	REVIS
REVIS	REVIS

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

**CONCRETE PARAPET SLIPFORMING OPTION**  
**STRUCTURE NO. 026-0022**

SHEET NO. 50 OF 52 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(26-3VB1)BR-1	FAYETTE	103	67
CONTRACT NO. 74518				
ILLINOIS FED. AID PROJECT				





**Illinois Department of Transportation**  
Division of Highways  
IDOT

**SOIL BORING LOG**

Date 8/1/62

ROUTE F.A.I. 70 DESCRIPTION LOGGED BY F.H. Beck

SECTION 26-3VB-1 LONGITUDE LATITUDE

COUNTY Fayette DRILLING METHOD HAMMER TYPE

STRUCT. NO. 026-0022  
Station 710+59.20  
BORING NO. 4  
Station 711+04  
Offset 32.00ft Lt  
Ground Surface Elev. 525.80 ft (ft) (/6") (tsf) (%)

DEPTH (ft)	BLOWS (/6")	UCS (tsf)	MOISTURE (%)	DESCRIPTION	DEPTH (ft)	BLOWS (/6")	UCS (tsf)	MOISTURE (%)
0				Surface Water Elev. _____ ft Stream Bed Elev. _____ ft	0			
				Groundwater Elev.: First Encounter _____ ft Upon Completion 509.8 ft After _____ Hrs. _____ ft				
0				Stiff, grey brown, SILTY CLAY to CLAY LOAM	70			8
13	1.7	S	12	weathered				
523.80				Hard CALY LOAM to SANDY CLAY LOAM TILL				
522.80	14		11		102	4.0	S	
521.30	10	0.9	22	Hard, grey CLAY LOAM to SANDY CLAY LOAM TILL				
521.30					200			
-5				Extent of Exploration	500.80	-25		
12	1.7	S	28					
16	1.6	S	22					
-10					-30			
14	1.8	B	17					
513.80								
24	3.0	S	19	Very stiff, grey mottled brown, CLAY to CLAY LOAM and some GRAVEL				
510.30								
-15					-35			
14	0.7	S	15	Medium, grey, wet, SANDY CLAY LOAM to CLAY LOAM				
508.30								
3			19	Very loose, grey, water bearing, SANDY LOAM				
505.80	-20				-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, form 137 (Rev. 11-11)



**Illinois Department of Transportation**  
Division of Highways  
IDOT

**SOIL BORING LOG**

Date 8/1/62

ROUTE F.A.I. 70 DESCRIPTION LOGGED BY G.M. Broom

SECTION 26-3VB-1 LONGITUDE LATITUDE

COUNTY Fayette DRILLING METHOD HAMMER TYPE

STRUCT. NO. 026-0022  
Station 710+59.20  
BORING NO. 5  
Station 712+48  
Offset 44.00ft Lt  
Ground Surface Elev. 522.8 ft (ft) (/6") (tsf) (%)

DEPTH (ft)	BLOWS (/6")	UCS (tsf)	MOISTURE (%)	DESCRIPTION	DEPTH (ft)	BLOWS (/6")	UCS (tsf)	MOISTURE (%)
0				Surface Water Elev. _____ ft Stream Bed Elev. _____ ft	0			
				Groundwater Elev.: First Encounter _____ ft Upon Completion 511.0 ft After _____ Hrs. _____ ft				
0				Very stiff, grey, SILTY CLAY LOAM *hand penetrometer	29	2.5	18	
520.30				SAND	120			14
520.30					500.30			8
17	2.5	B	26	Very stiff, grey speckled brown CLAY to SILTY CLAY				
-5				Extent of Exploration	-25			
25	2.2	S	22					
516.80				Very stiff, grey brown mottled CLAY				
19	2.2	S	14					
35	3.1	S	15					
512.80	-10			Stiff, brown, SANDY CLAY LOAM and approx. 15% +/- GRAVEL	-30			
21	1.2	S	15					
18	1.1	S	18					
508.80				Soft or loose, grey, SANDY LOAM and approx. 10% +/- GRAVEL				
9	0.5	S	14		-35			
505.30				Hard, blue grey, CLAY LOAM TILL				
150	7.2	S	8					
-20					-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, form 137 (Rev. 11-11)



**Illinois Department of Transportation**  
Division of Highways  
IDOT

**SOIL BORING LOG**

Date 8/1/62

ROUTE F.A.I. 70 DESCRIPTION LOGGED BY F.H. Beck

SECTION 26-3VB-1 LONGITUDE LATITUDE

COUNTY Fayette DRILLING METHOD HAMMER TYPE

STRUCT. NO. 026-0022  
Station 710+59.20  
BORING NO. 6  
Station 713+28  
Offset 59.00ft Lt  
Ground Surface Elev. 522.20 ft (ft) (/6") (tsf) (%)

DEPTH (ft)	BLOWS (/6")	UCS (tsf)	MOISTURE (%)	DESCRIPTION	DEPTH (ft)	BLOWS (/6")	UCS (tsf)	MOISTURE (%)
0				Surface Water Elev. _____ ft Stream Bed Elev. _____ ft	0			
				Groundwater Elev.: First Encounter _____ ft Upon Completion 504.2 ft After _____ Hrs. _____ ft				
0				Very stiff, grey mottled brown, SILTY CLAY LOAM	22	2.5	14	
519.70				Hard, grey blue, CLAY LOAM to SANDY CLAY LOAM TILL	152	7.9	9	
19	1.9	S	23	Stiff, grey speckled brown, CLAY				
518.20				Hard, CLAY LOAM TILL	148	4.0	S	
-5				Stiff, brown mottled grey, SILTY CLAY	497.20	-25	155	
16	1.9	S	19	Extent of Exploration				
16	1.6	S	19					
514.20				Stiff, brown mottled grey, CLAY LOAM				
19	1.8	S	22	LOAM				
-10					-30			
19	1.2	S	17					
510.20				Medium, brown, wet, SANDY CLAY LOAM to SANDY LOAM				
13			17					
12			16					
506.20				Loose, light brown, wet, SANDY LOAM to SANDY CLAY LOAM				
4			22					
4			23					
502.20	-20				-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, form 137 (Rev. 11-11)

SDATES \$TIMES

DESIGNED - Josue D. Ortiz-Varela  
CHECKED - Nicholas R. Barnett  
DRAWN - R. Laughlin  
CHECKED - J.O.V. / N.R.B. / G.R.A.

EXAMINED \_\_\_\_\_  
PASSED \_\_\_\_\_  
ENGINEER OF BRIDGE DESIGN  
ENGINEER OF BRIDGES AND STRUCTURES

DATE - MAY 15, 2017  
REVISED \_\_\_\_\_  
REVISED \_\_\_\_\_

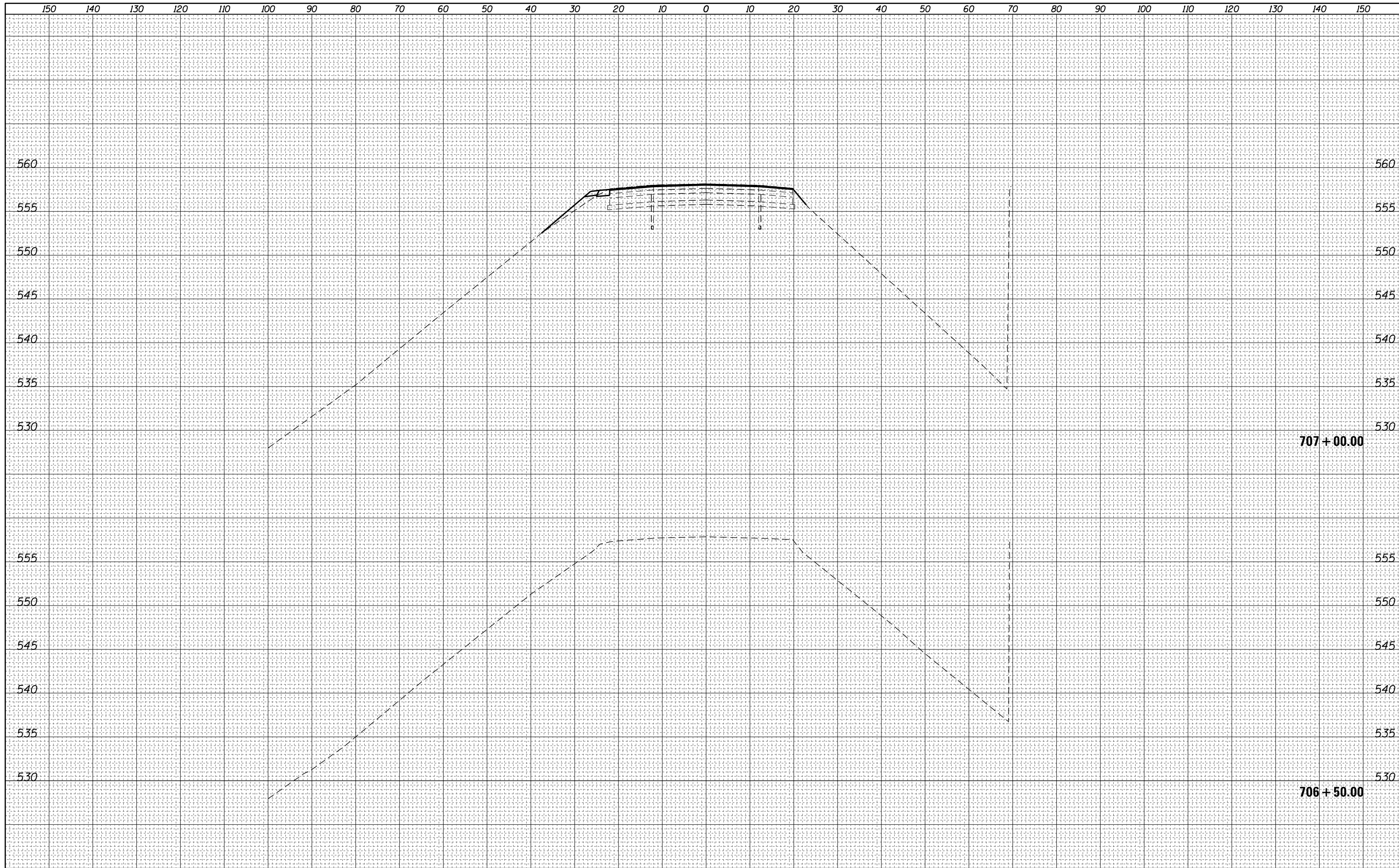
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SOIL BORING LOGS  
STRUCTURE NO. 026-0022**  
SHEET NO. 52 OF 52 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(26-3VB)BR-1	FAYETTE	103	69
<b>CONTRACT NO. 74518</b>				
ILLINOIS FED. AID PROJECT				

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

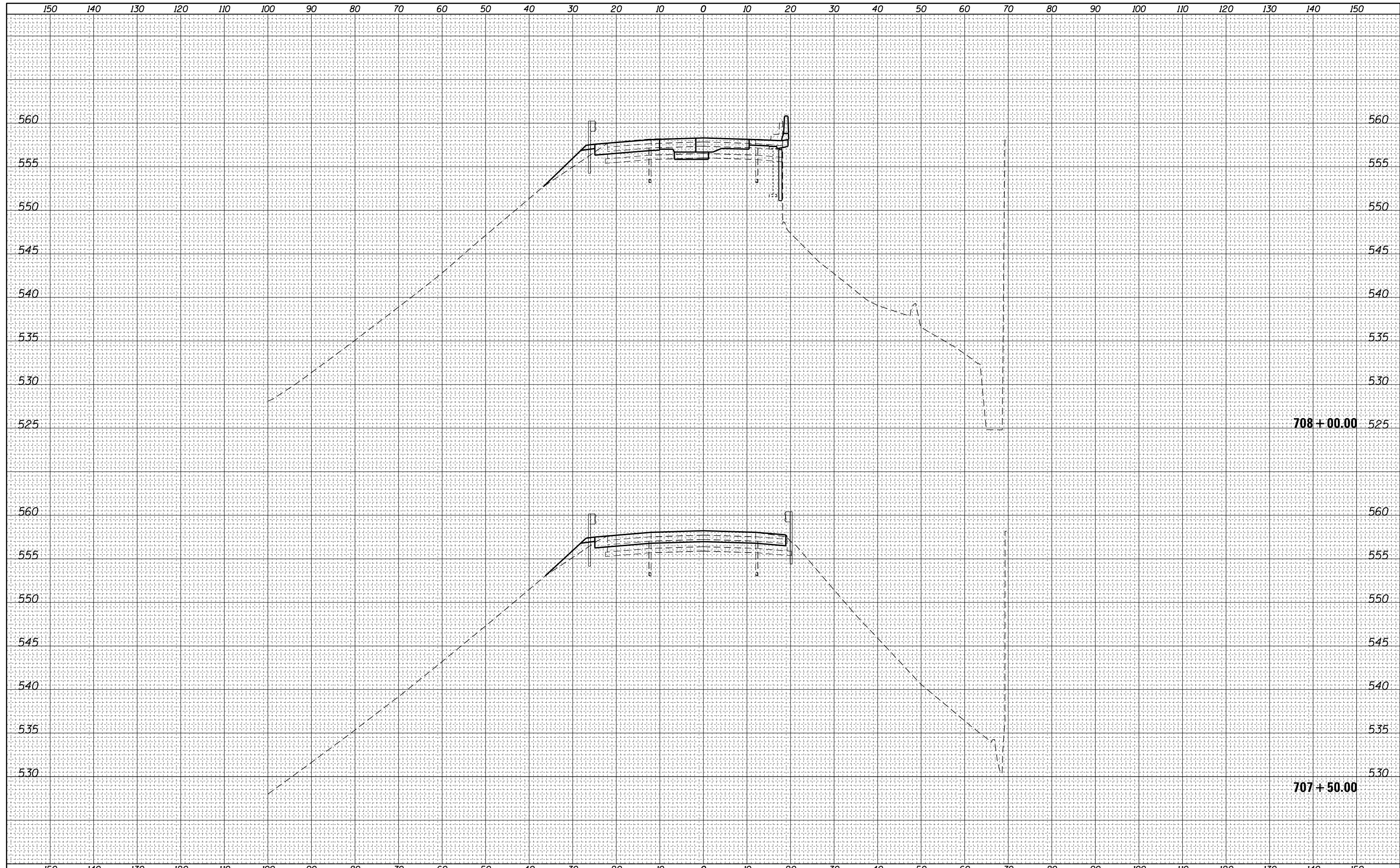
BY	DATE
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



FILE NAME =	USER NAME = steffenk	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>BRIDGE CROSS SECTIONS</b> SCALE:    SHEET    OF    SHEETS    STA. 706+50.00    TO    STA. 707+00.00	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -	REVISED -			CONTRACT NO. 74518				
Default	DATE -	REVISED -	REVISED -			ILLINOIS FED. AID PROJECT				

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

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

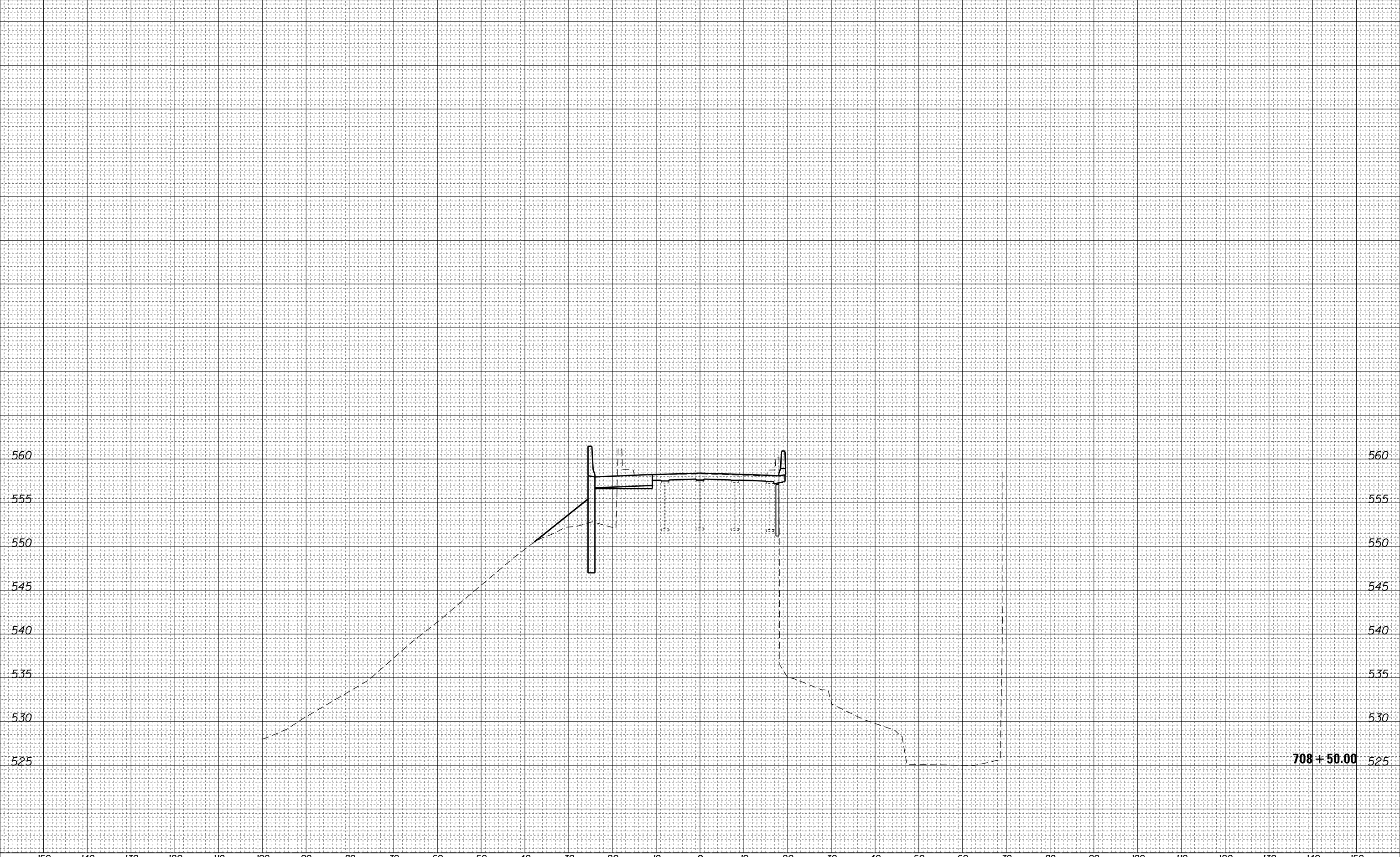


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Default	PLOT DATE = 3/23/2017	CHECKED -	REVISIED -		SCALE: SHEET OF SHEETS STA. 707+50.00 TO STA. 708+00.00			CONTRACT NO. 74518				
		DATE	REVISIED -		ILLINOIS FED. AID PROJECT							

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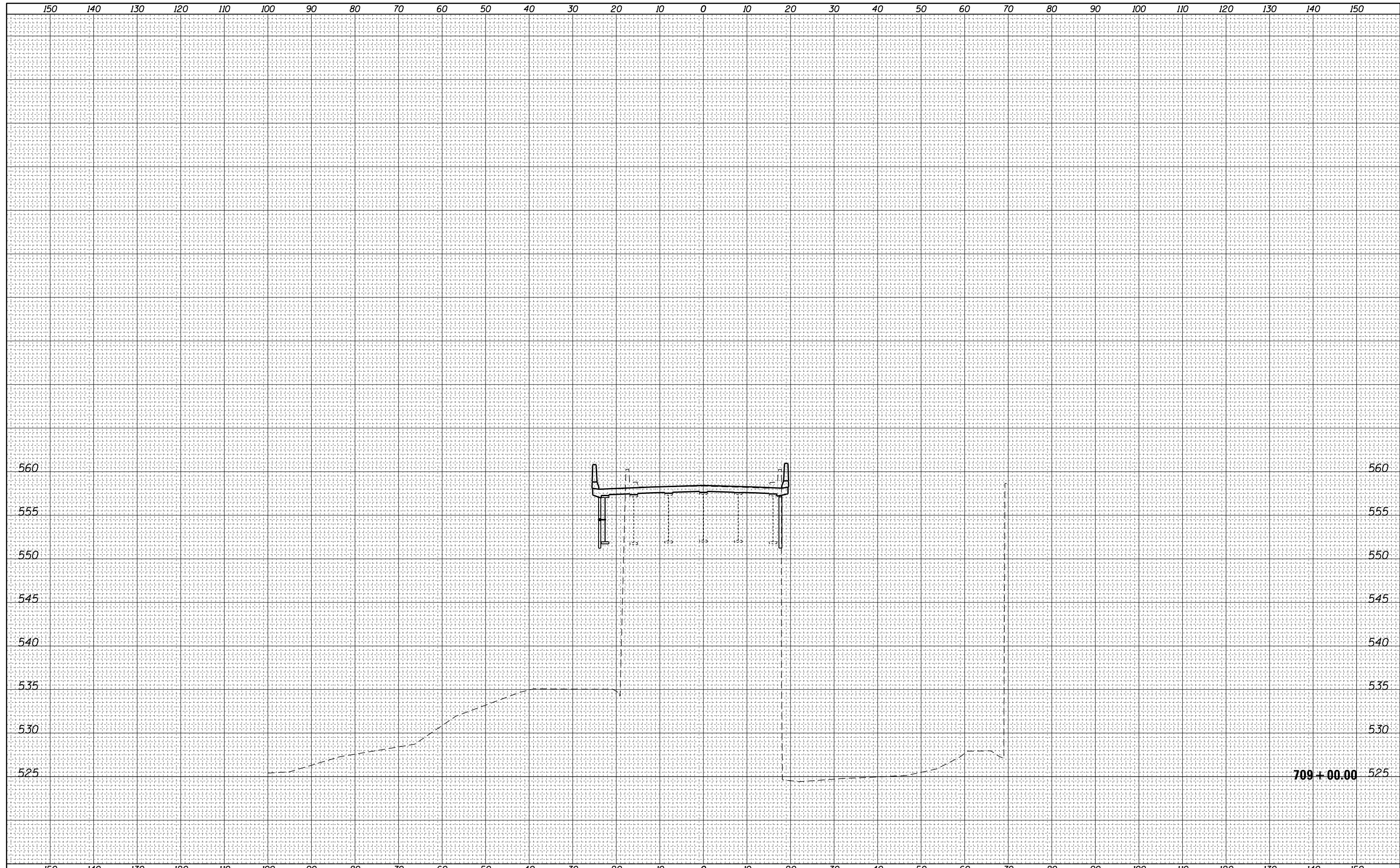
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NOTE BOOK NO.	PLOTTED TEMPLATE AREAS CHECKED		

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NOTE BOOK NO.	PLOTTED TEMPLATE AREAS CHECKED		



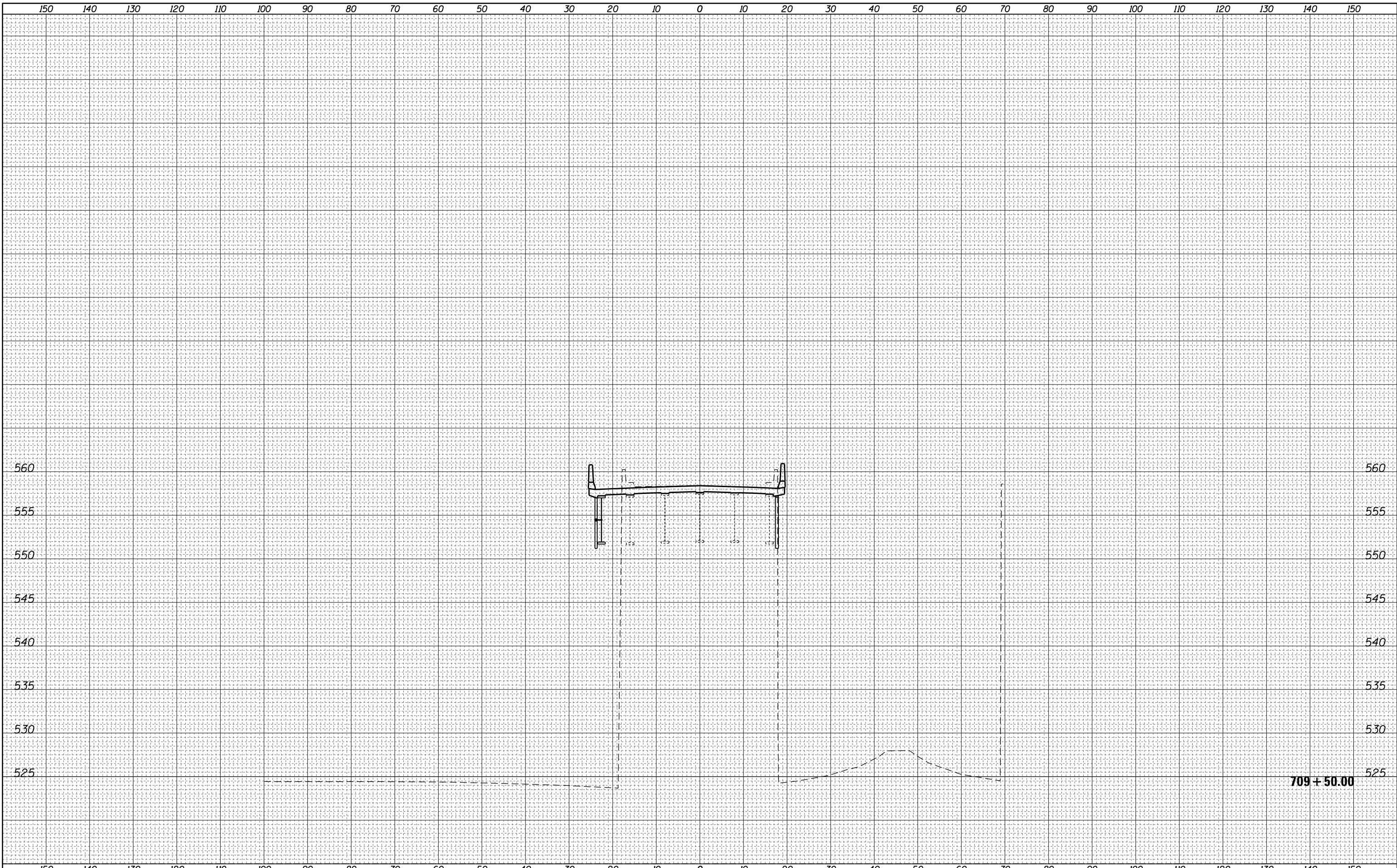
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Default	PLOT SCALE = 20.0000' / in.	CHECKED -	REVISÉD -		CONTRACT NO. 74518		ILLINOIS FED. AID PROJECT		
	PLOT DATE = 3/23/2017	DATE -	REVISÉD -		SCALE:	SHEET OF SHEETS	STA. 708+50.00	TO STA. 708+50.00	





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

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

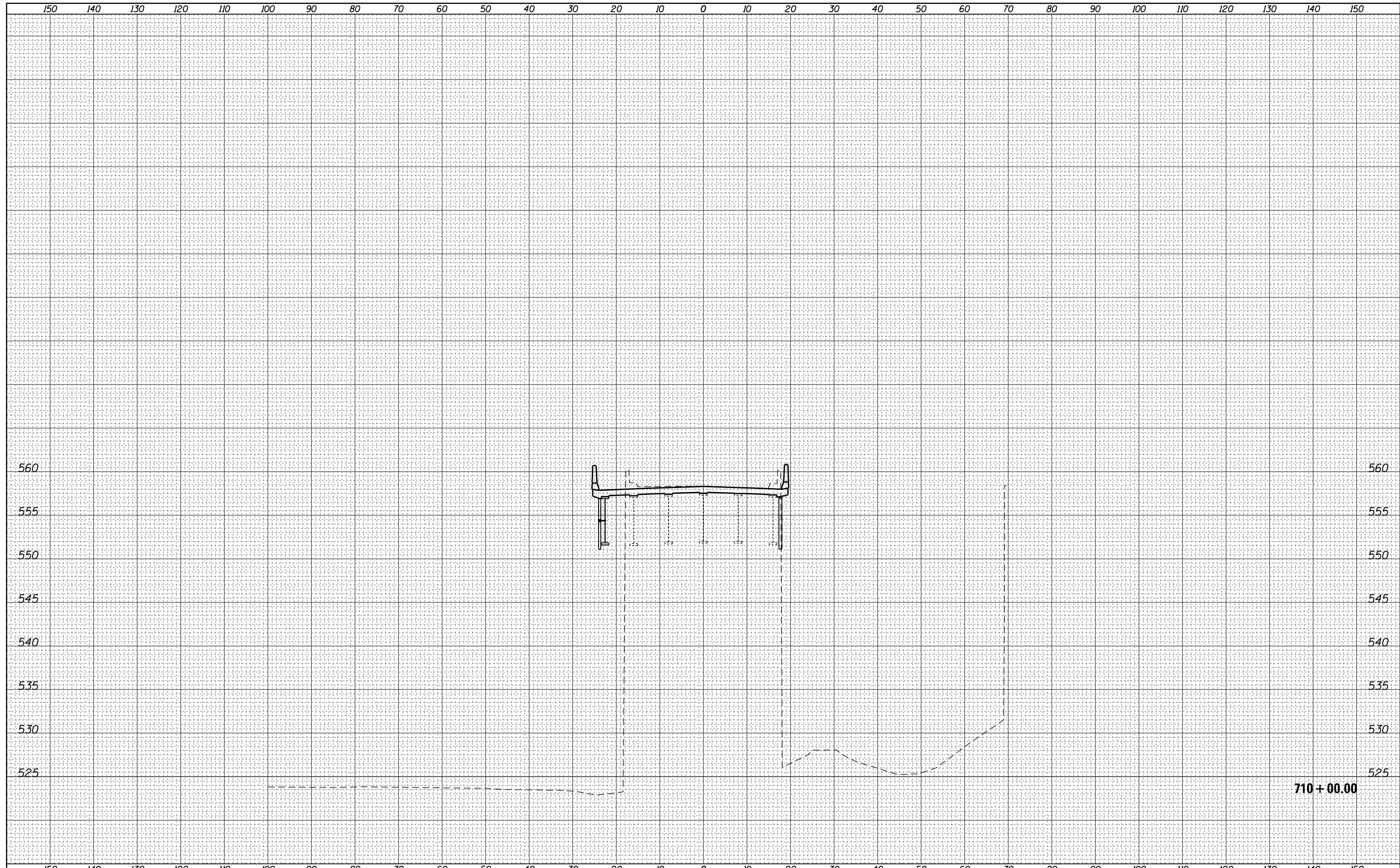


DATE	BY	SURVEYED	PLOTTED
		NOTE BOOK	TEMPLATE
		AREAS CHECKED	AREAS CHECKED
		NO.	

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

DATE	BY	SURVEYED	PLOTTED
		NOTE BOOK	TEMPLATE
		AREAS CHECKED	AREAS CHECKED

DATE	BY	ORIGINAL SURVEY	PLOTTED
		NOTE BOOK	TEMPLATE
		AREAS CHECKED	AREAS CHECKED



FILE NAME =	USER NAME = steffenk	DESIGNED -	REVISÉ -	F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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Default	PLOT SCALE = 20.0000' / in.	CHECKED -	REVISÉ -	CONTRACT NO. 74518				
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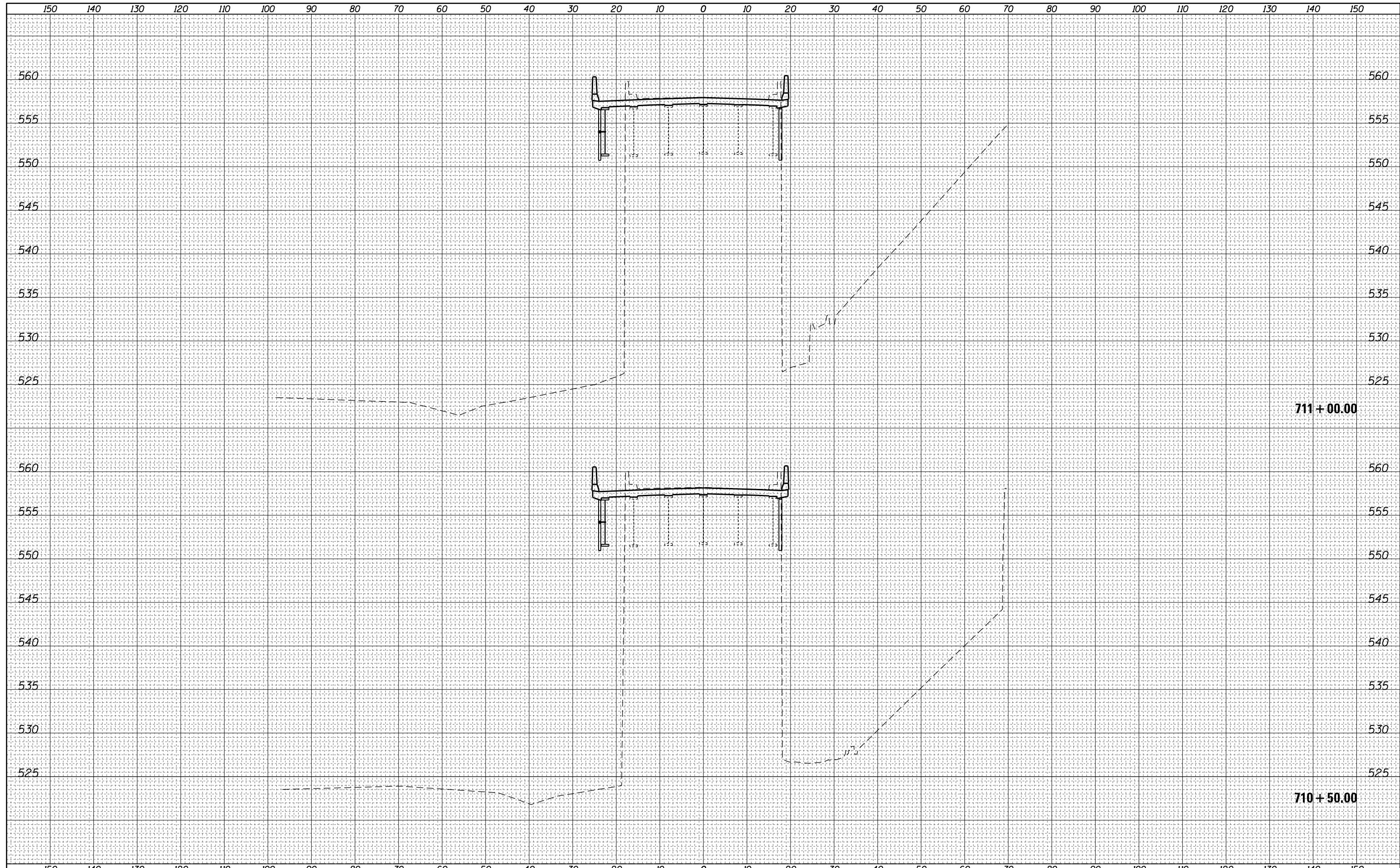
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BRIDGE CROSS SECTIONS**

**710 + 00.00**

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

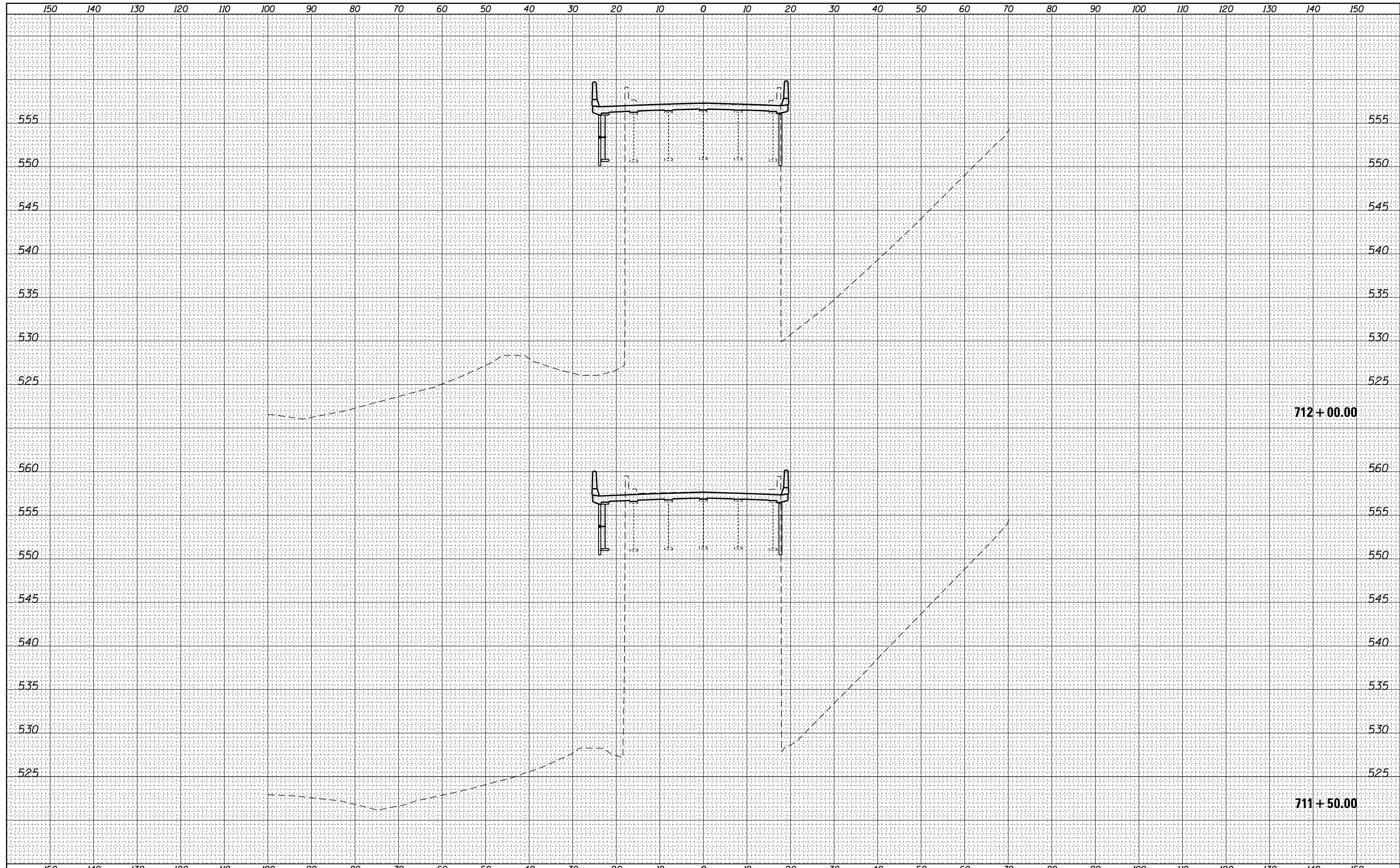
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BY	
ORIGINAL SURVEY NO.	
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NOTE BOOK	
AREAS CHECKED	



FILE NAME =	USER NAME = steffenk	DESIGNED -	REVISIED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>BRIDGE CROSS SECTIONS</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\IL084EBIDINTEG\Illinois.gov\PIDOT\Documents\NIDOT Offices\District 7\Projects\74518\CADD\Drawings\Drawings\74518-sht-bridge.dgn	DATE	CHECKED -	REVISIED -					70	(26-3VBI)BR-1	Fayette	103	76
Default	PLOT DATE = 3/23/2017	DATE	REVISIED -		SCALE: SHEET OF SHEETS STA. 710+50.00 TO STA. 711+00.00			CONTRACT NO. 74518				
					ILLINOIS FED. AID PROJECT							

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

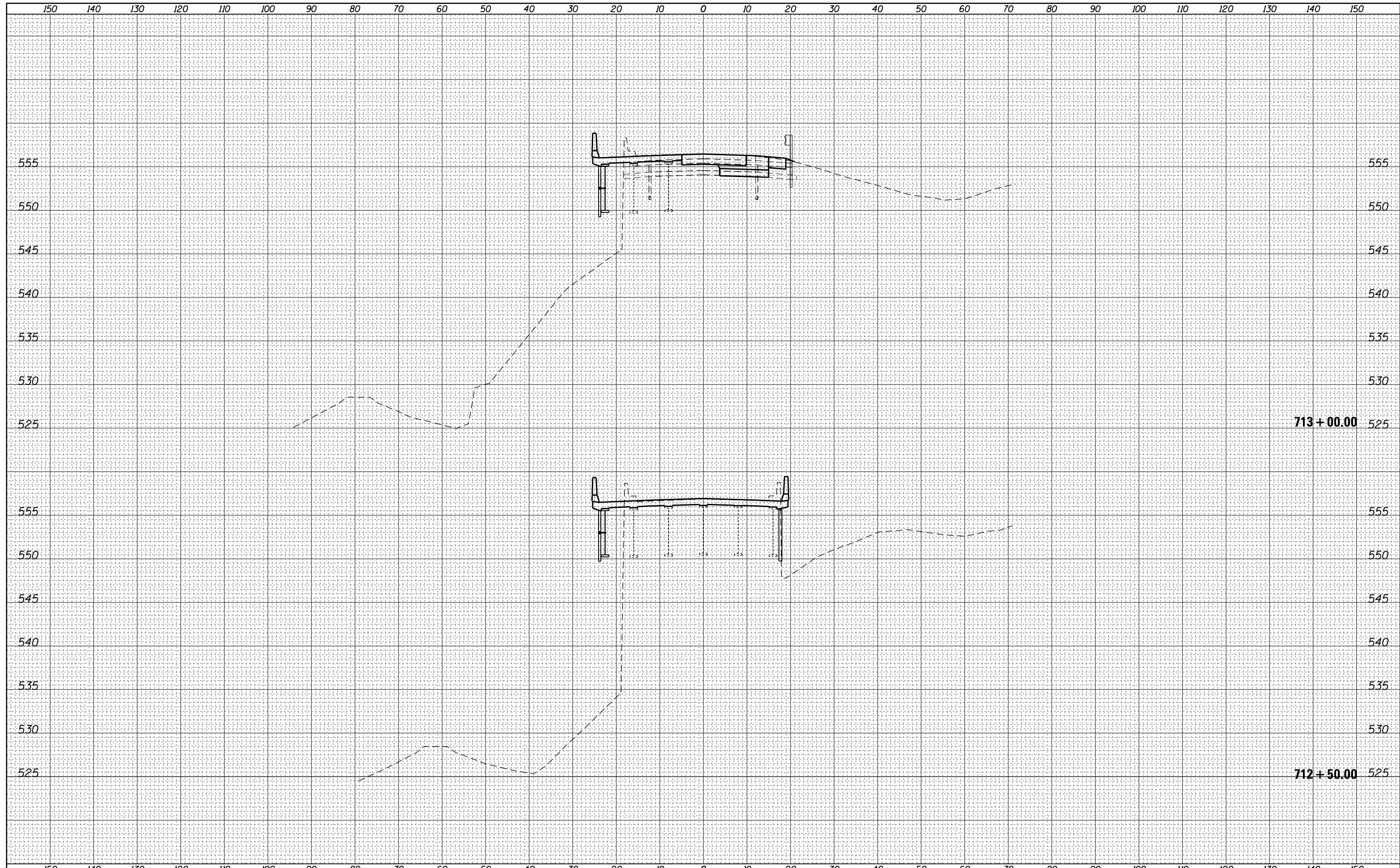
DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED



FILE NAME =	USER NAME = steffenk	DESIGNED -	REVISIED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>BRIDGE CROSS SECTIONS</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11084EBIDINTEG\Illinois.gov\PWIDOT\Documents\NIDOT Offices\District 7\Projects\74518\CADD\Drawings\Drawings\74518-sht-bridge.dgn	DATE	CHECKED -	REVISIED -		70	(26-3VBI)BR-1	Fayette	103	77			
Default	PLOT DATE = 3/23/2017	DATE	REVISIED -		SCALE: SHEET OF SHEETS STA. 711+50.00 TO STA. 712+00.00			CONTRACT NO. 74518				
								ILLINOIS FED. AID PROJECT				

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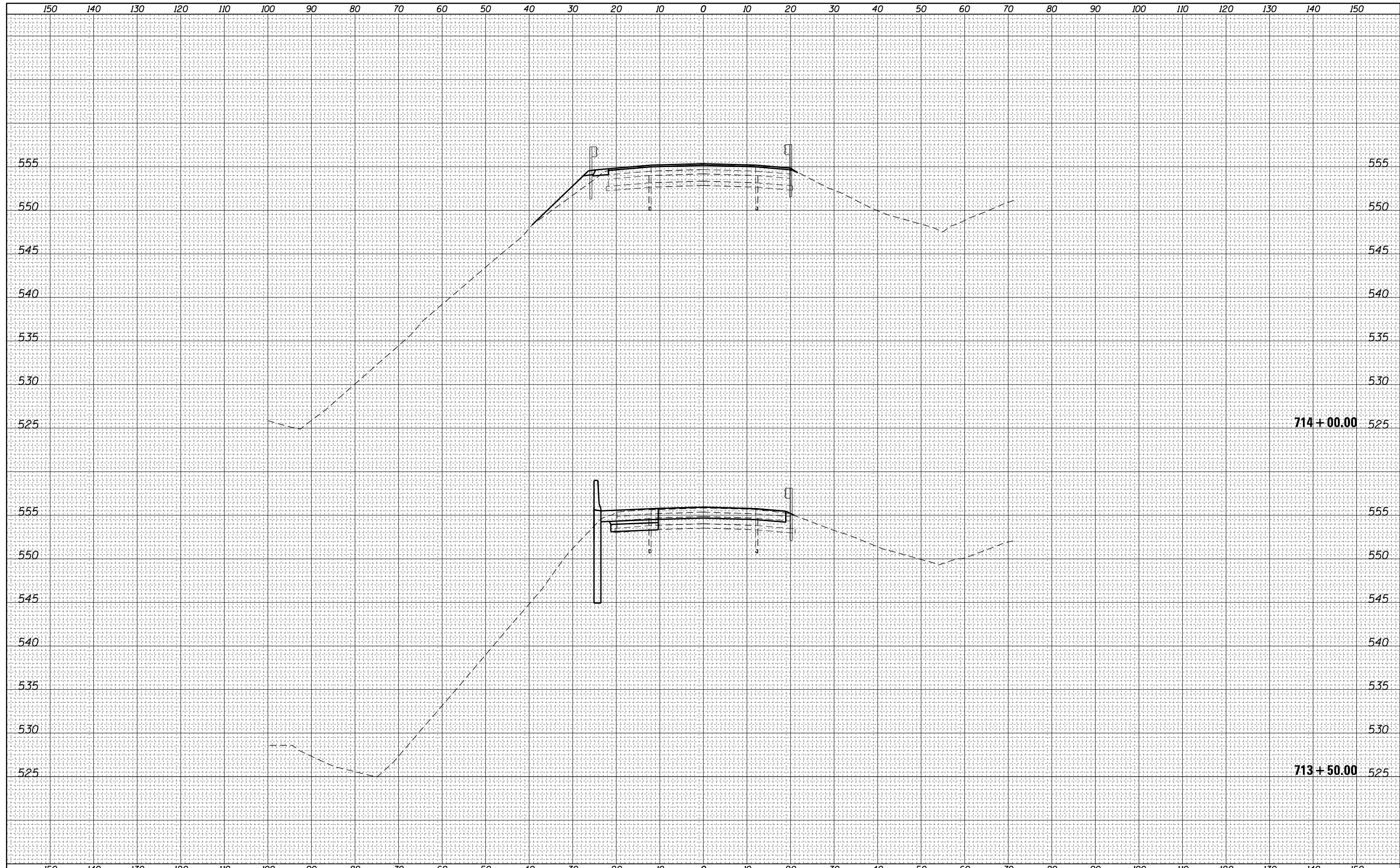
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PLOTTED	
TEMPLATE	
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ORIGINAL SURVEY	
NOTE BOOK	
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FILE NAME =	USER NAME = steffenk	DESIGNED -	REVISIED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>BRIDGE CROSS SECTIONS</b>			F.A.I. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default	DOT Offices\District 7\Projects\74518\CADD\Drawings\Drawings\74518-sht-bridge.dgn	CHECKED -	REVISIED -					70	(26-3VBI)BR-1	Fayette	103	78
	PLOT SCALE = 20.0000' / in.	DATE -	REVISIED -		SCALE: SHEET OF SHEETS STA. 712+50.00 TO STA. 713+00.00			CONTRACT NO. 74518				
	PLOT DATE = 3/23/2017				ILLINOIS FED. AID PROJECT							

DATE	
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SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
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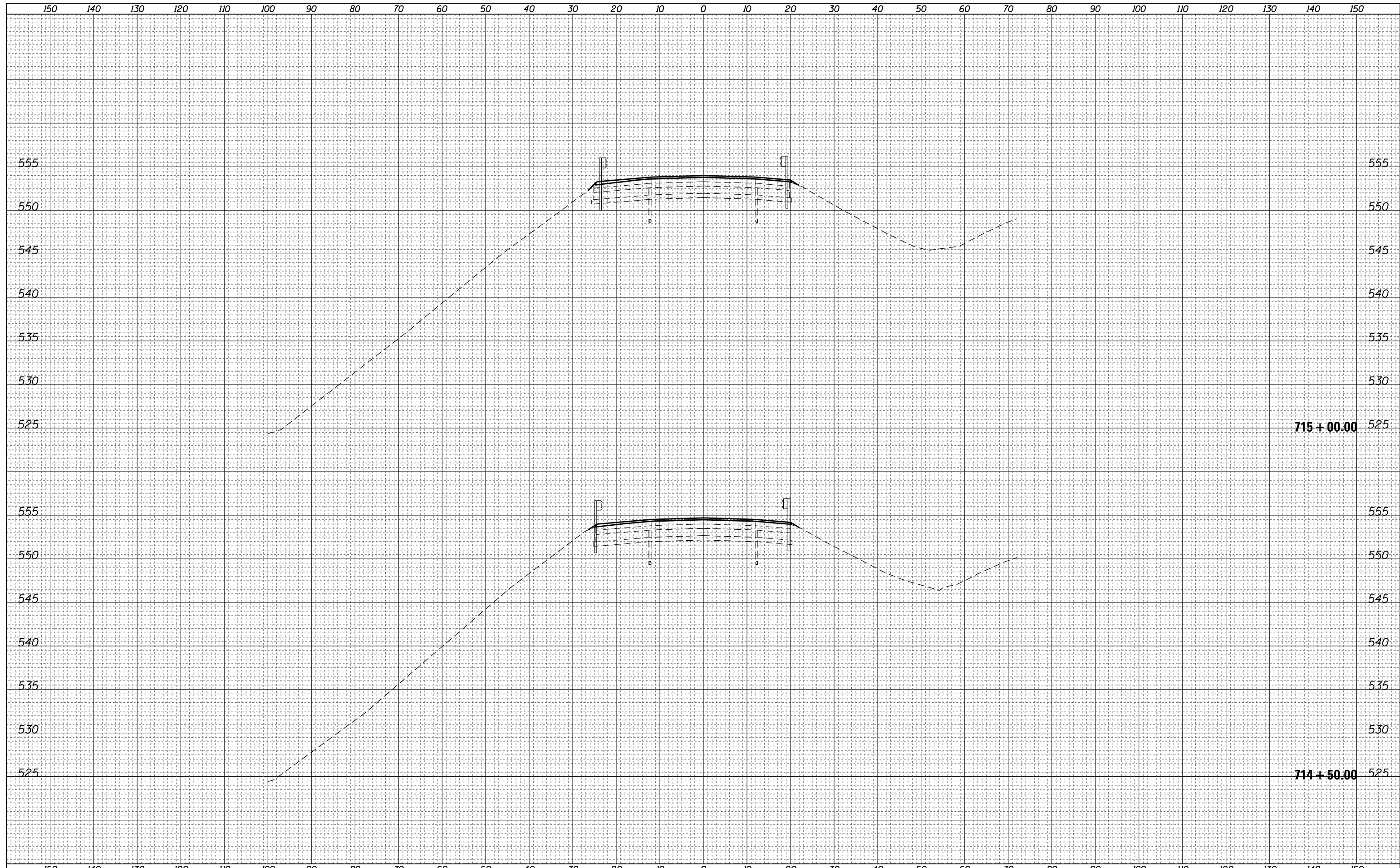
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SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
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ORIGINAL SURVEY	
NOTE BOOK	
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FILE NAME =	USER NAME = steffenk	DESIGNED -	REVISÉD -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>BRIDGE CROSS SECTIONS</b>			F.A.I. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11084EBIDINTEG\Illinois.gov\PIDOT\Documents\NIDOT Offices\District 7\Projects\74518\CADD\Drawings\Drawings\74518-sht-bridge.dgn	DATE	REVISÉD -	REVISÉD -					70	(26-3VBI)BR-1	Fayette	103	79
Default	DATE = 3/23/2017	CHECKED -	REVISÉD -		SCALE: SHEET OF SHEETS STA. 713+50.00 TO STA. 714+00.00			CONTRACT NO. 74518				
		DATE -	REVISÉD -					ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
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FINAL SURVEY	
NOTE BOOK	
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DATE	
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SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
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FILE NAME =	USER NAME = steffenk	DESIGNED -	REVISÉD -	F.A.I. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11084EBIDINTEG\Illinois.gov\PIDOT\Documents\NIDOT Offices\District 7\Projects\74518\CADD\Drawings\Drawings\74518-sht-bridge.dgn		CRAN	REVISÉD -	70	(26-3VBI)BR-1	Fayette	103	80
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISÉD -	REVISÉD -	CONTRACT NO. 74518				
Default	DATE -	REVISÉD -	REVISÉD -	SCALE:	SHEET	OF	SHEETS	STA. 714+50.00 TO STA. 715+00.00
				ILLINOIS FED. AID PROJECT				

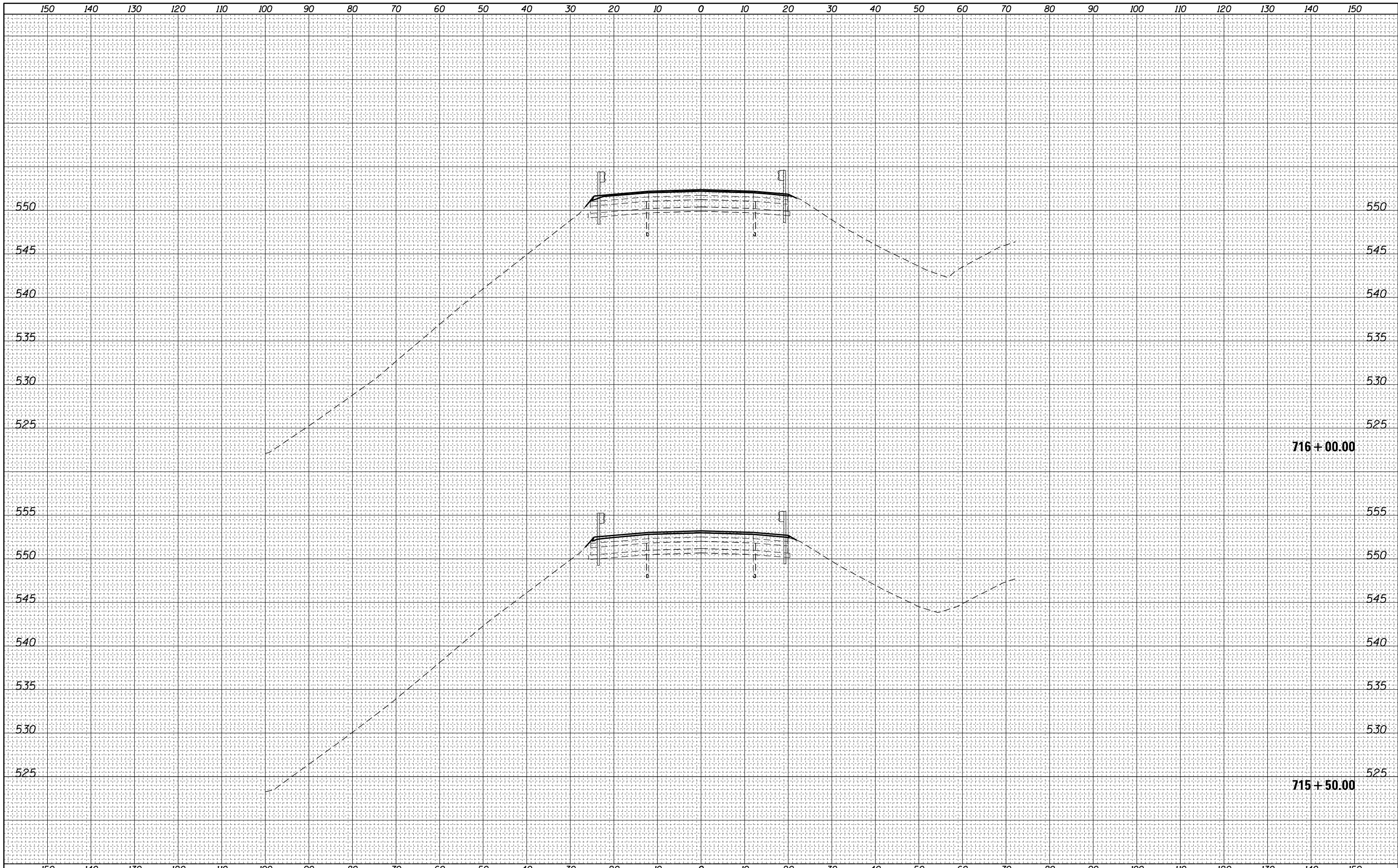
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BRIDGE CROSS SECTIONS**



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

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

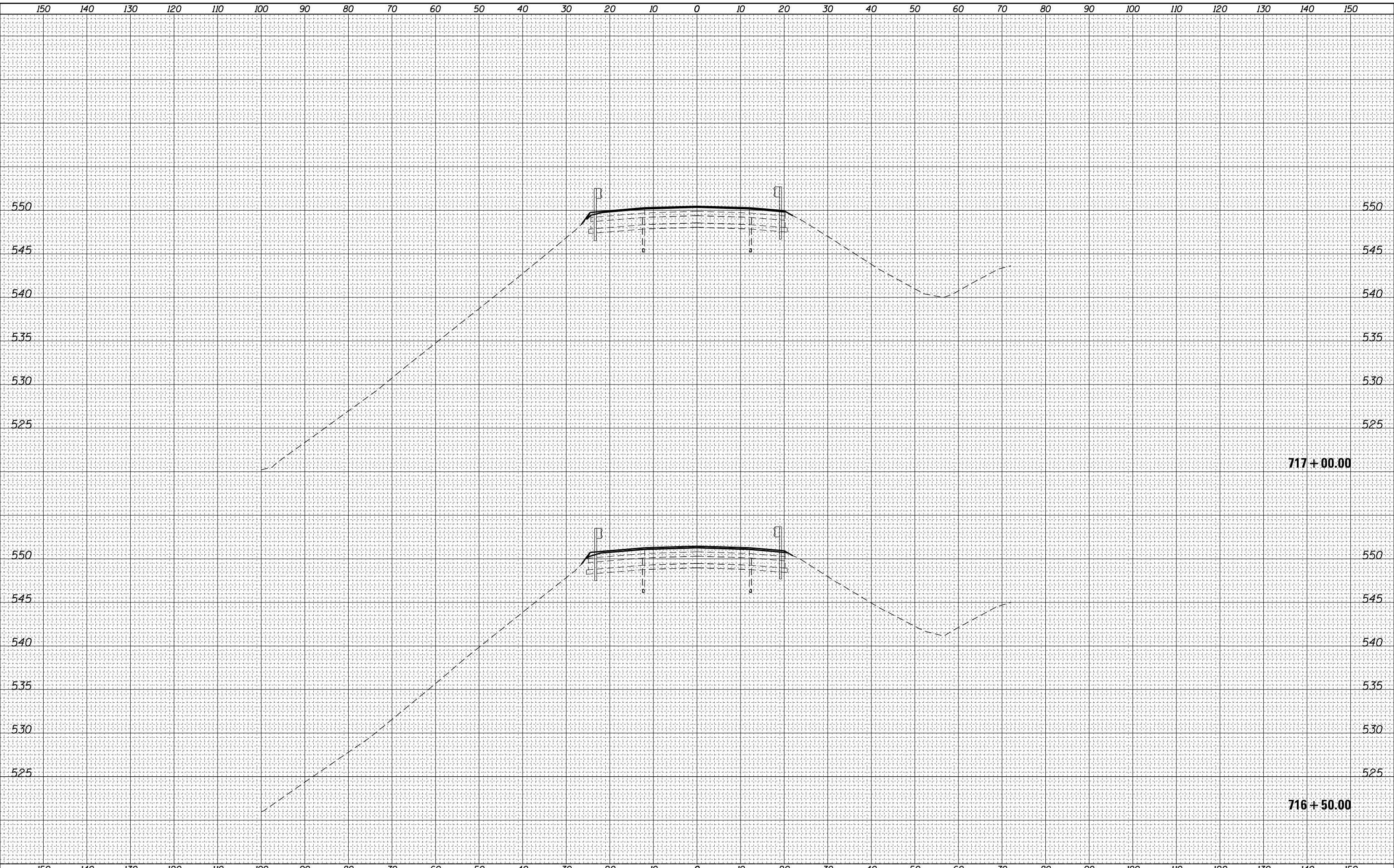


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	PLOT SCALE = 20.0000' / in.	CHECKED -	REVISOR -	CONTRACT NO. 74518				
	PLOT DATE = 3/23/2017	DATE -	REVISOR -	ILLINOIS FED. AID PROJECT				

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BRIDGE CROSS SECTIONS**

SCALE: SHEET OF SHEETS STA. 715+50.00 TO STA. 716+00.00



BY	DATE

ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

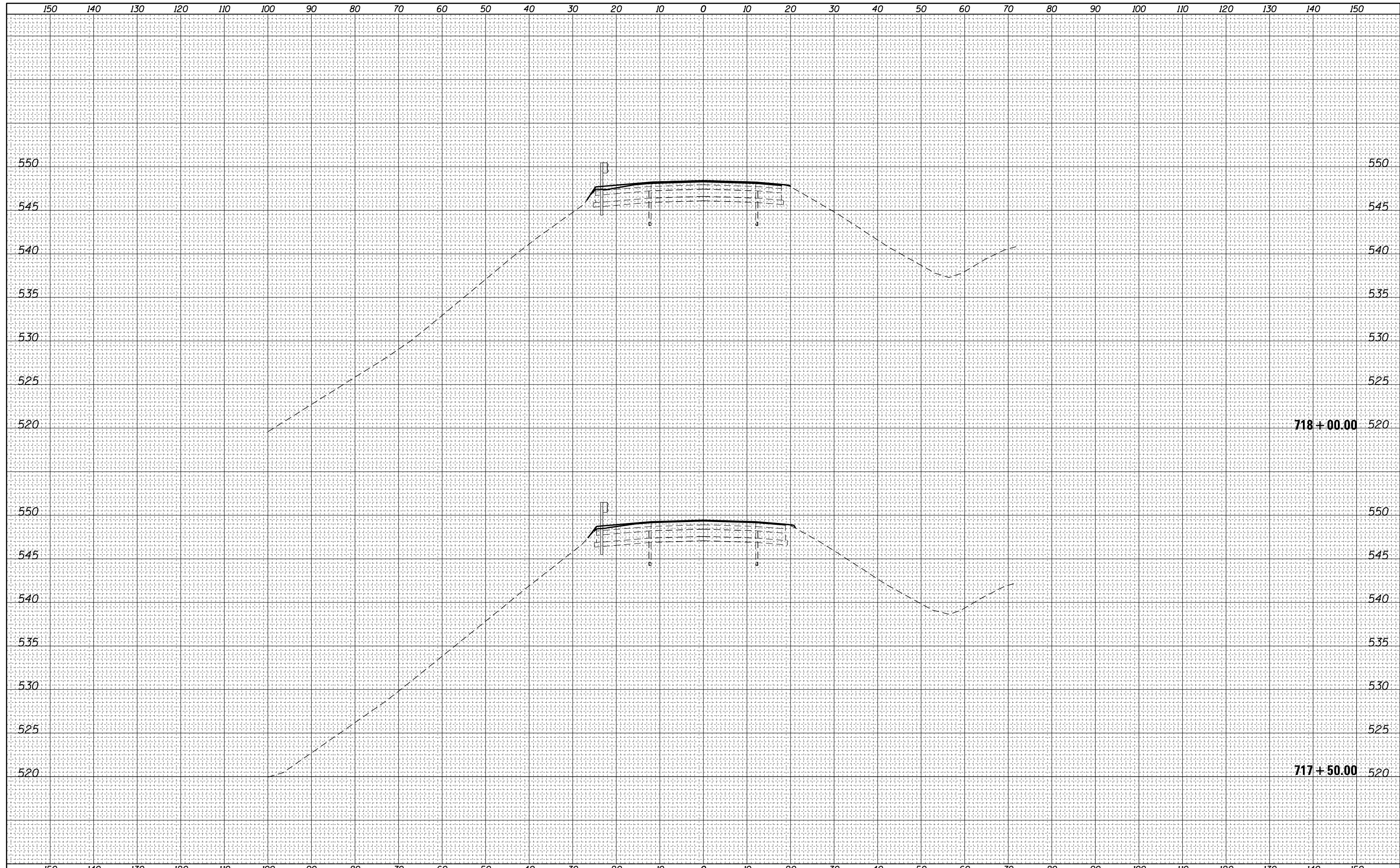
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PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -	REVISED -	SCALE: SHEET OF SHEETS STA. 716+50.00 TO STA. 717+00.00		CONTRACT NO. 74518		ILLINOIS FED. AID PROJECT
PLOT DATE = 3/23/2017	DATE -	REVISED -	REVISED -					

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BRIDGE CROSS SECTIONS**

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

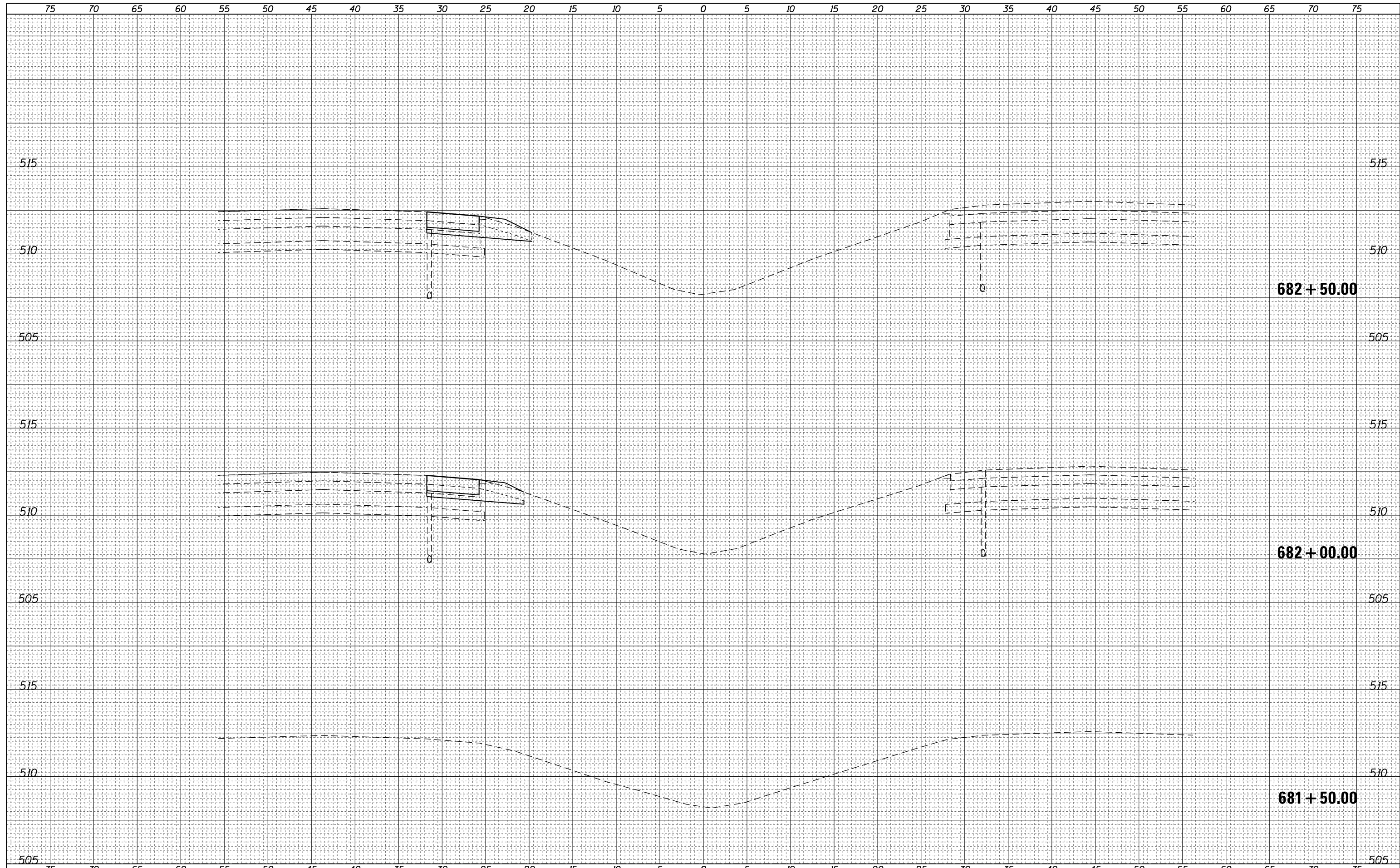
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
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FILE NAME =	USER NAME = steffenk	DESIGNED -	REVISIED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>BRIDGE CROSS SECTIONS</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default	DOT Offices\District 7\Projects\74518\CADD\Drawings\Drawings\74518-sht-bridge.dgn	REVISIED -	REVISIED -					70	(26-3VBI)BR-1	Fayette	103	83
	PLOT SCALE = 20.0000' / in.	CHECKED -	REVISIED -		CONTRACT NO. 74518							
	PLOT DATE = 3/23/2017	DATE -	REVISIED -		SCALE:	SHEET	OF	SHEETS	STA. 717+50.00	TO STA. 718+00.00	ILLINOIS FED. AID PROJECT	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
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DATE	
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TEMPLATE	
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CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
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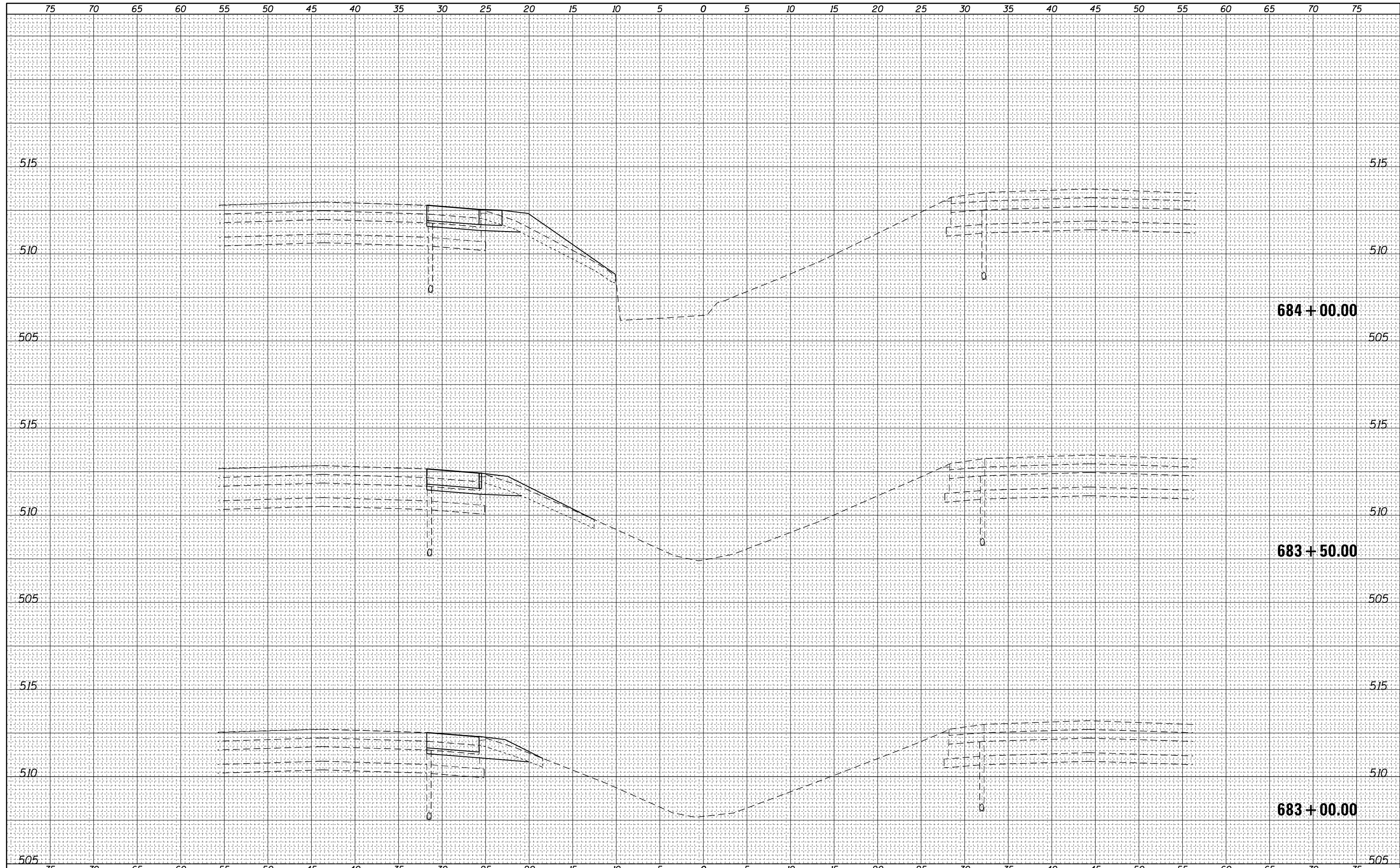
FILE NAME =	USER NAME = steffennk	DESIGNED -	REVISIED -	F.A.I. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11084EBIDINTEG\Illinois.gov\PWIDOT\Documents\IDOT Offices\District 7\Projects\74518\CADD\Drawings\Drawings\74518-sht-wcrossover.dgn	DRW	REVISIED -	REVISIED -	70	(26-3VBI)BR-1	Fayette	103	84
PLOT SCALE = 10.0000' / in.	CHECKED -	REVISIED -	REVISIED -	CONTRACT NO. 74518				
Default	DATE -	REVISIED -	REVISIED -	SCALE:	SHEET	OF	SHEETS	STA. 681+50.00 TO STA. 682+50.00
				ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

WEST CROSSOVER CROSS SECTIONS

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
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CHECKED	
FINAL SURVEY	
NOTE BOOK	
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DATE	
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ORIGINAL SURVEY	
NOTE BOOK	
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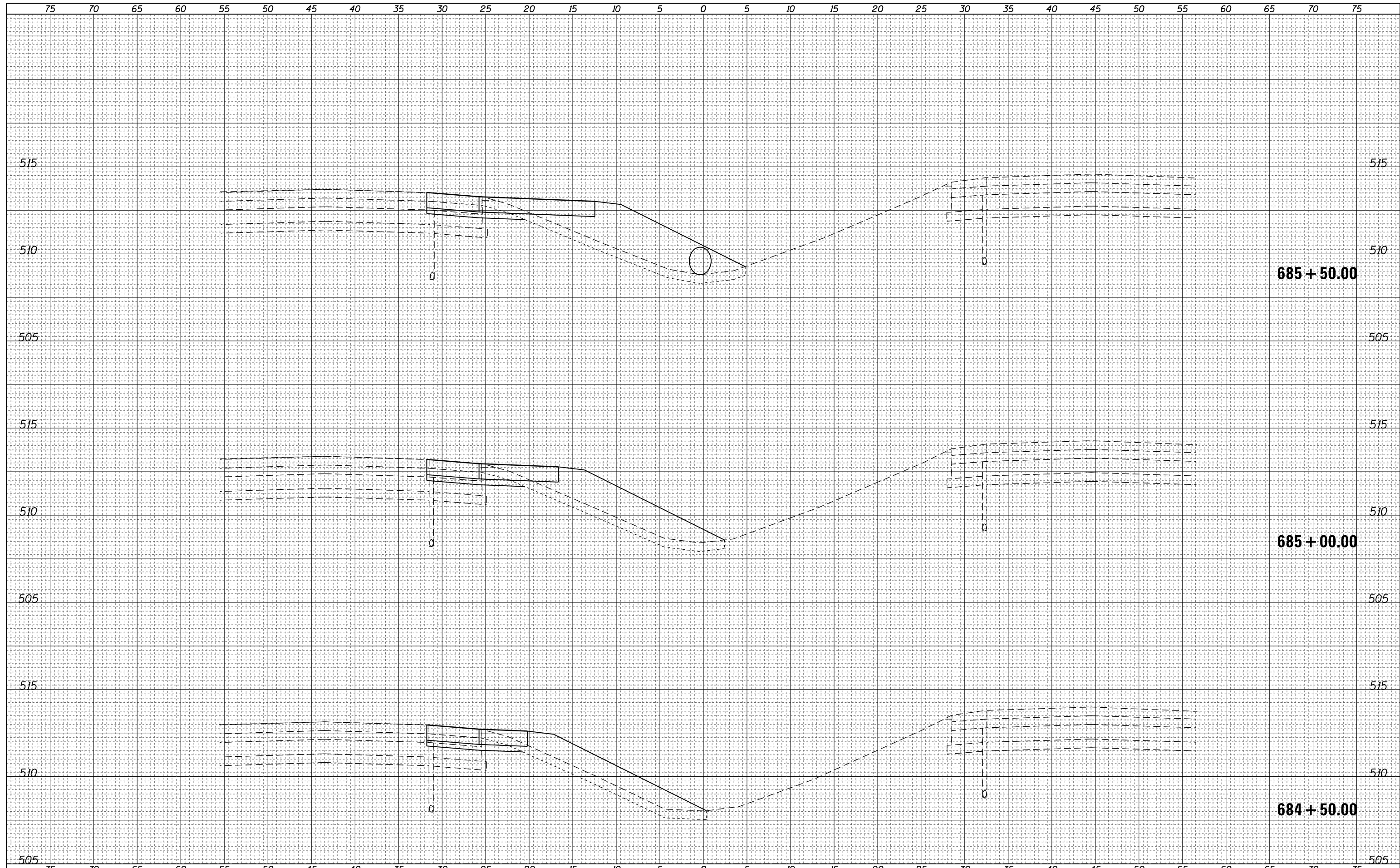
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p:\11084EBIDINTEG\Illinois.gov\PWIDOT\Documents\IDOT Offices\District 7\Projects\74518\CADD\Drawings\Drawings\74518-sht-wcrossover.dgn	DRAWN	REVISIED -	REVISIED -	70	(26-3VBI)BR-1	Fayette	103	85
PLOT SCALE = 10.0000' / in.	CHECKED -	REVISIED -	REVISIED -	CONTRACT NO. 74518				
Default	DATE -	REVISIED -	REVISIED -	SCALE:	SHEET	OF	SHEETS	STA. 683+00.00 TO STA. 684+00.00
				ILLINOIS FED. AID PROJECT				

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**WEST CROSSOVER CROSS SECTIONS**

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

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



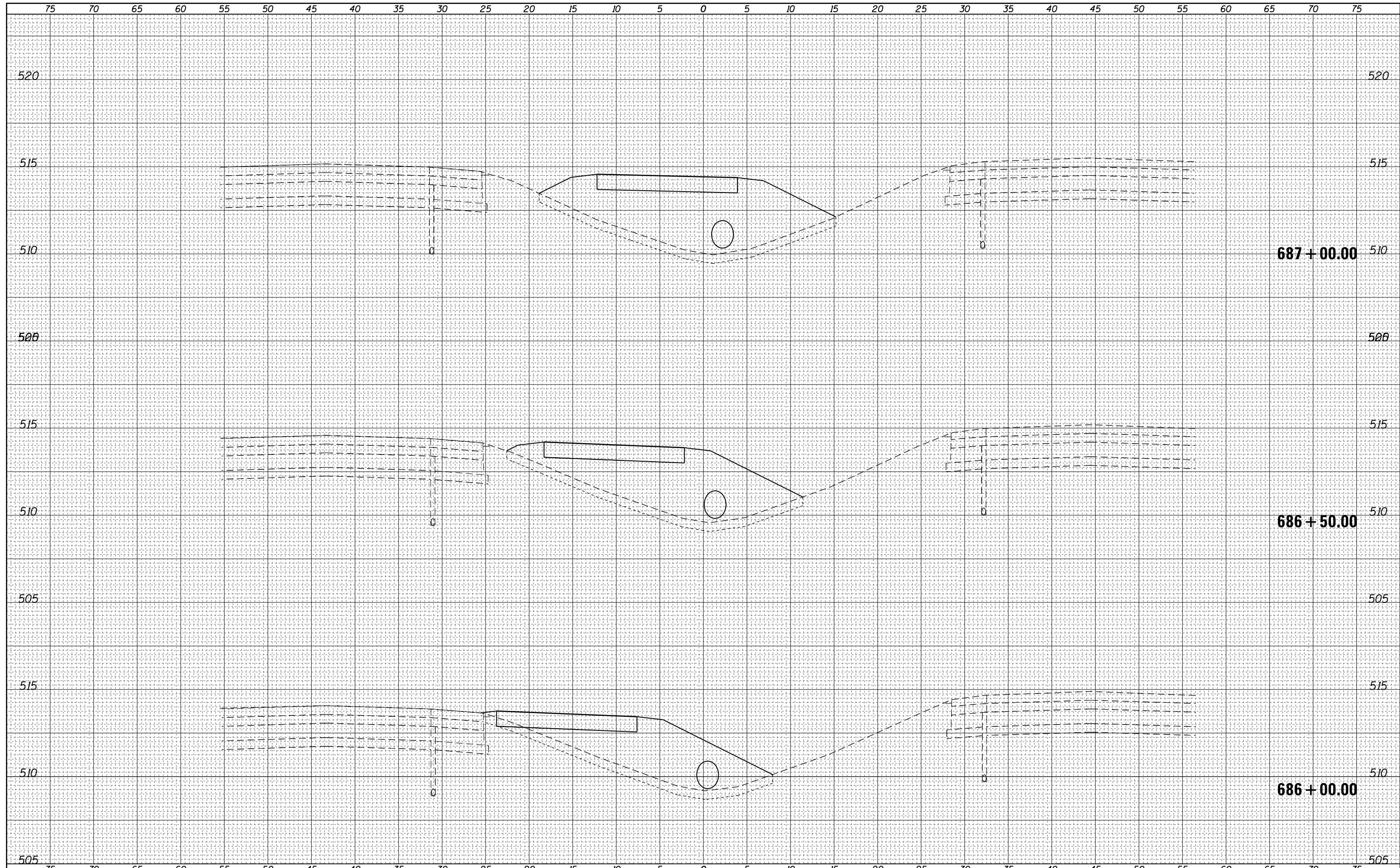
FILE NAME =	USER NAME = steffennk	DESIGNED -	REVISIED -	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11084EBIDINTEG\Illinois.gov\PWIDOT\Documents\IDOT Offices\District 7\Projects\74518\CADD\Drawings\Drawings\74518-sht-wcrossover.dgn	DRW	REVISIED -	REVISIED -	70	(26-3VBI)BR-1	Fayette	103	86
PLOT SCALE = 10.0000' / in.	CHECKED -	REVISIED -	REVISIED -	CONTRACT NO. 74518				
Default	DATE -	REVISIED -	REVISIED -	SCALE:	SHEET	OF	SHEETS	STA. 684+50.00 TO STA. 685+50.00
				ILLINOIS FED. AID PROJECT				

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**WEST CROSSOVER CROSS SECTIONS**

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

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



FILE NAME =	USER NAME = steffemk	DESIGNED -	REVISIED -	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11084EBIDINTEG\Illinois.gov\PWIDOT\Documents\IDOT Offices\District 7\Projects\74518\CADD\Drawings\Drawings\74518-sht-wcrossover.dgn	DRW	REVISIED -	REVISIED -	70	(26-3VBI)BR-1	Fayette	103	87
Default	PLOT SCALE = 10.0000' / in.	CHECKED -	REVISIED -	CONTRACT NO. 74518				
	PLOT DATE = 3/23/2017	DATE -	REVISIED -	ILLINOIS FED. AID PROJECT				

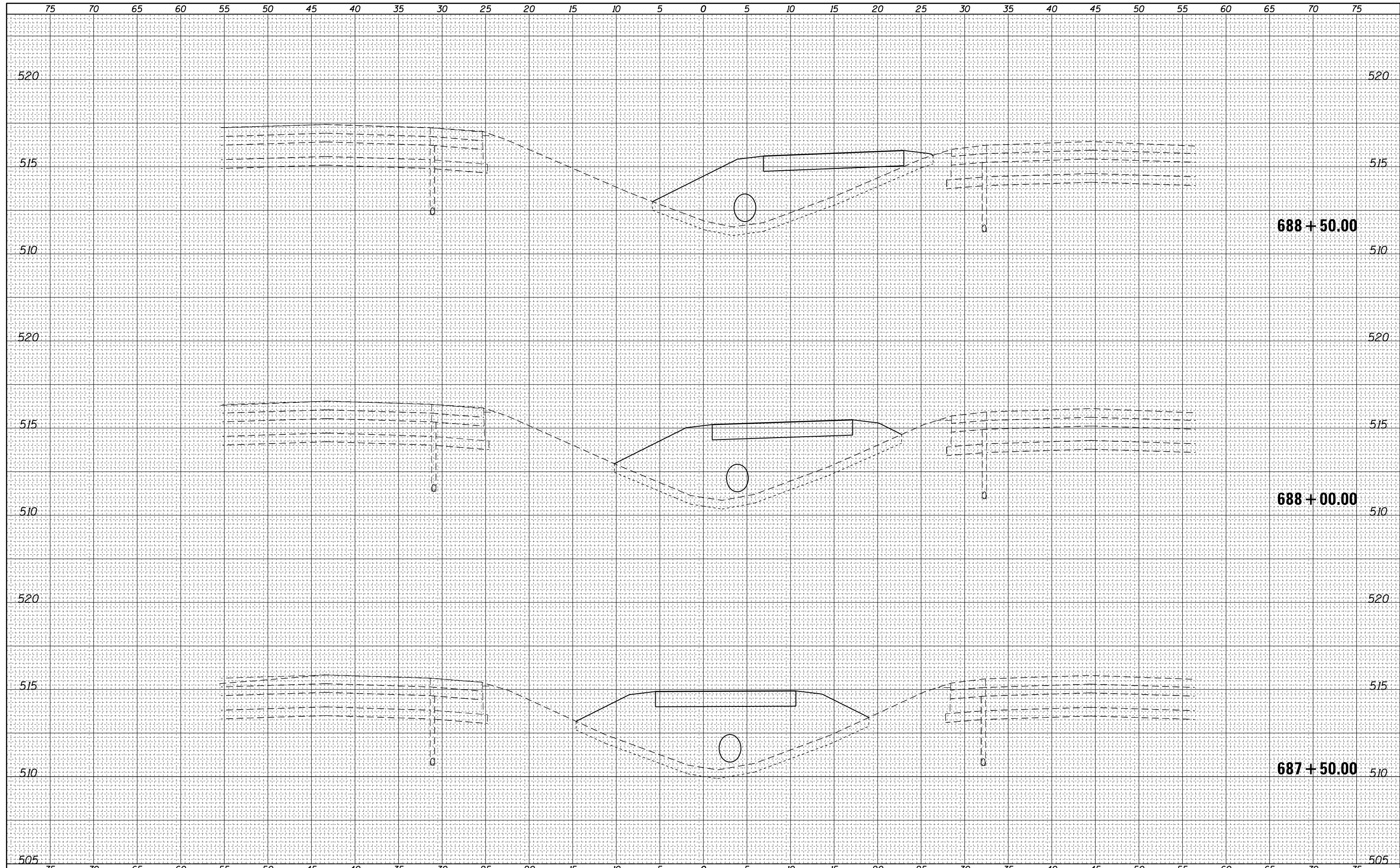
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**WEST CROSSOVER CROSS SECTIONS**

SCALE: SHEET OF SHEETS STA. 686+00.00 TO STA. 687+00.00

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
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DATE	
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TEMPLATE	
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ORIGINAL SURVEY	
NOTE BOOK	
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FILE NAME =	USER NAME = steffenk	DESIGNED -	REVISIED -	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11084EBIDINTEG\Illinois.gov\PIWIDOT\Documents\DOT Offices\District 7\Projects\74518\CADD\Drawings\Drawings\74518-sht-wcrossover.dgn		DRAWN	REVISIED -	70	(26-3VBI)BR-1	Fayette	103	88
PLOT SCALE = 10.0000' / in.	CHECKED -	REVISIED -	SCALE:	SHEET OF SHEETS		STA. 687+50.00 TO STA. 688+50.00		CONTRACT NO. 74518
PLOT DATE = 3/23/2017	DATE -	REVISIED -			ILLINOIS FED. AID PROJECT			

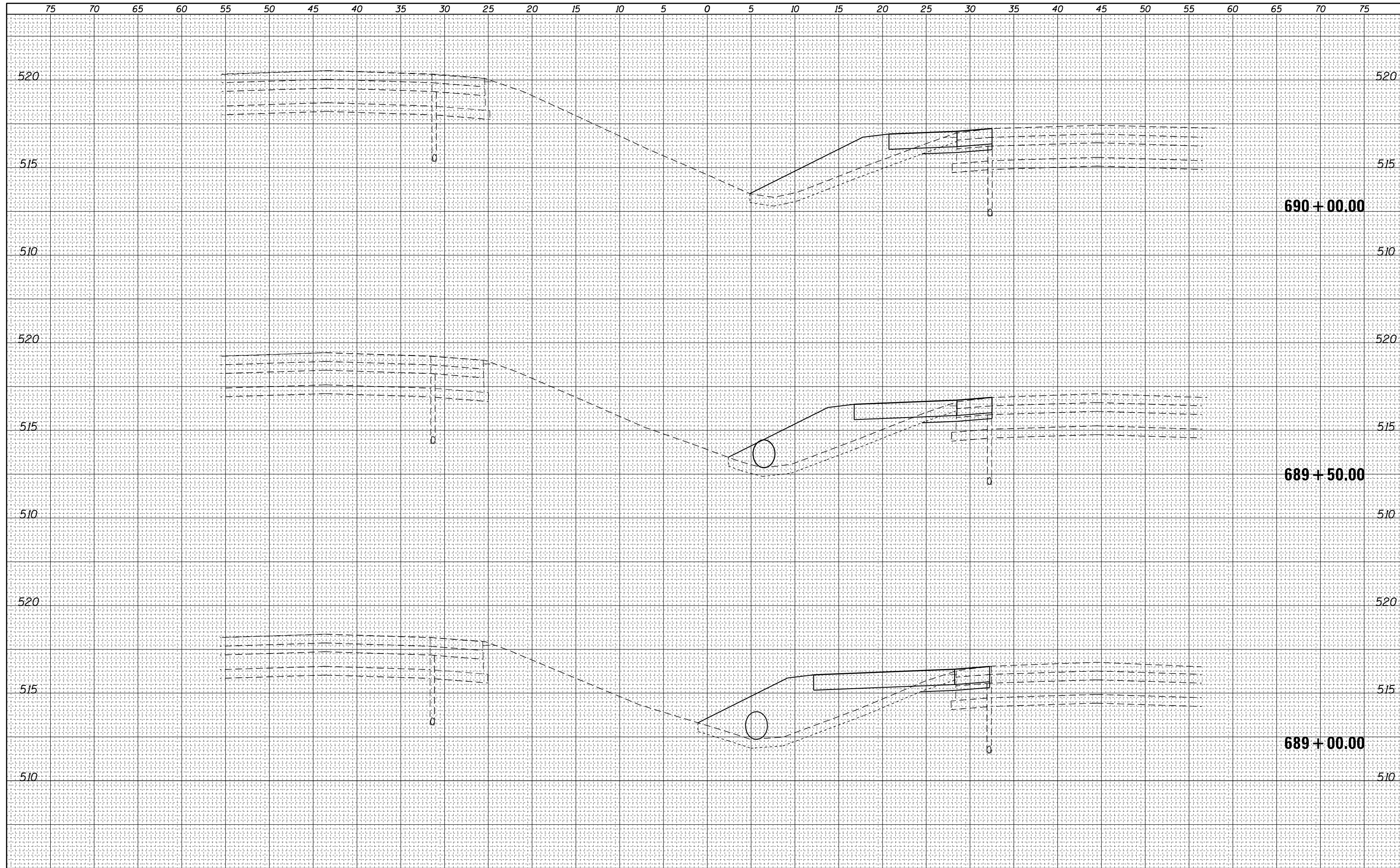
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**WEST CROSSOVER CROSS SECTIONS**



DATE	
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SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
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DATE	
BY	
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TEMPLATE	
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ORIGINAL SURVEY	
NOTE BOOK	
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FILE NAME = p:\11084EBIDINTEG\Illinois.gov\PWIDOT\Documents\IDOT Offices\District 7\Projects\74518\CADD\Drawings\Drawings\74518-sht-wcrossover.dgn

USER NAME = steffemk	DESIGNED -	REVISOR -
DATE = 3/23/2017	CHECKED -	REVISOR -
	DATE -	REVISOR -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**WEST CROSSOVER CROSS SECTIONS**

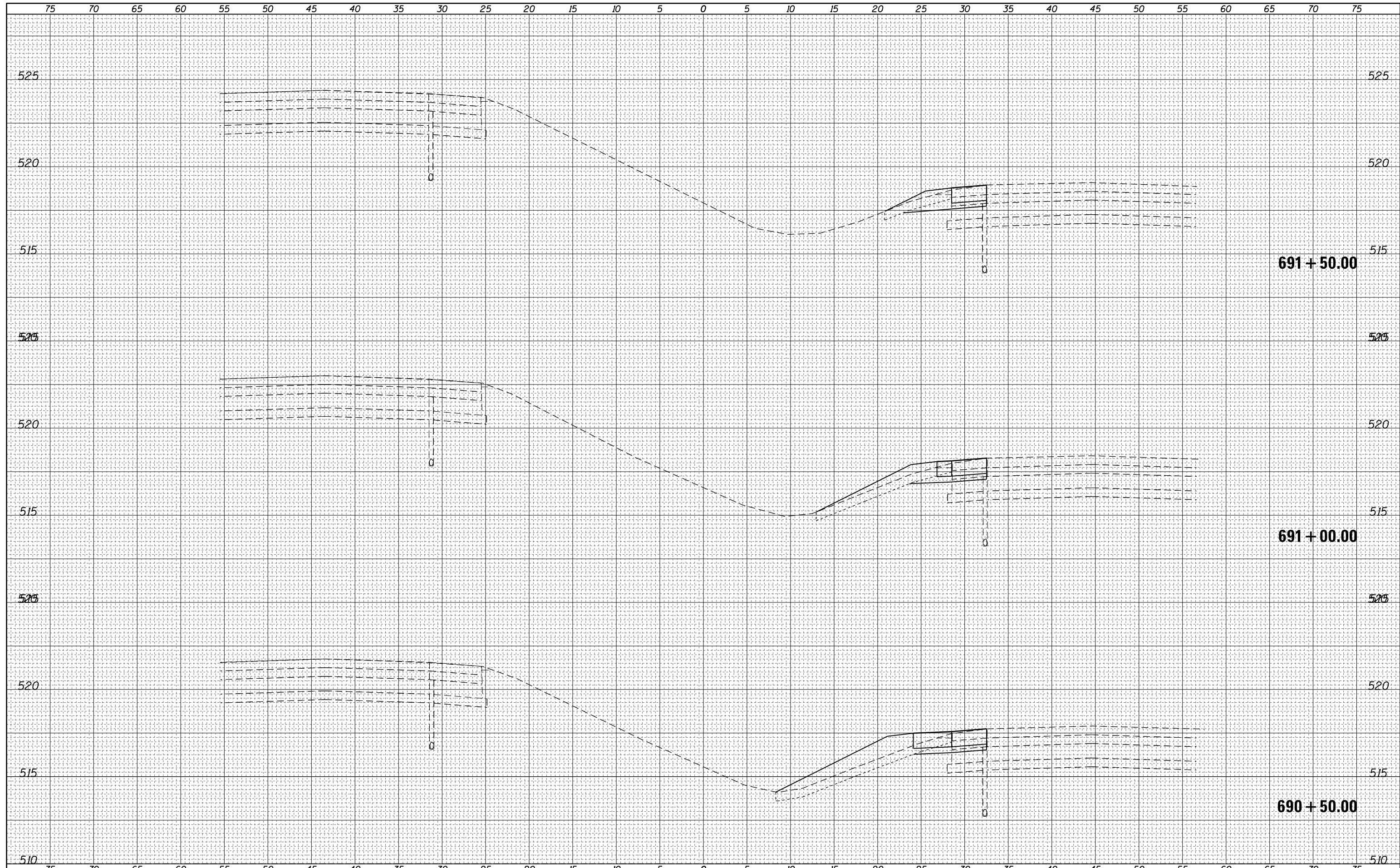
SCALE: SHEET OF SHEETS STA. 689+00.00 TO STA. 690+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(26-3VBI)BR-1	Fayette	103	89
CONTRACT NO. 74518				

ILLINOIS FED. AID PROJECT

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
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DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
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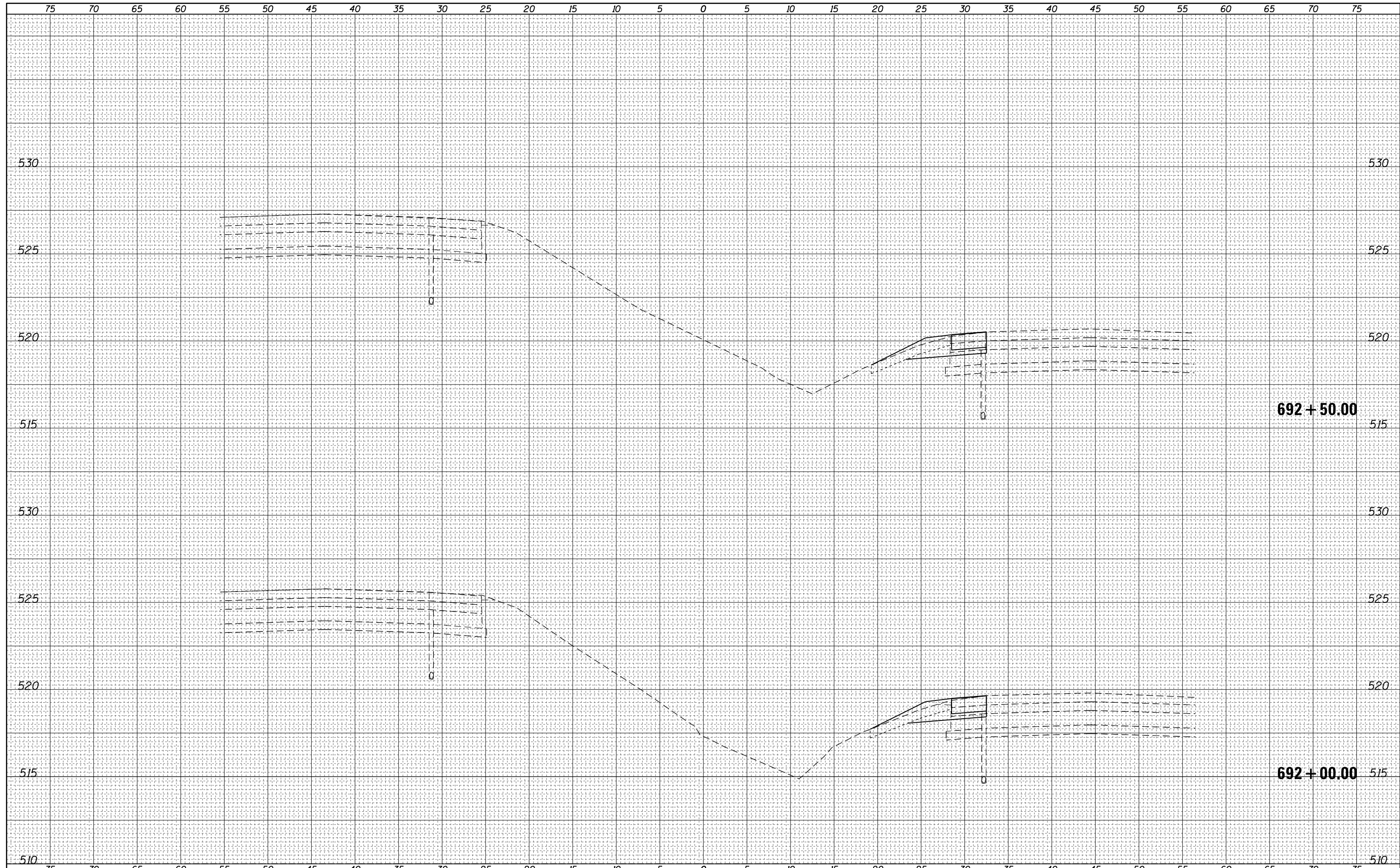
FILE NAME =	USER NAME = steffennk	DESIGNED -	REVISIED -	F.A.I. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11084EBIDINTEG\Illinois.gov\PIDOT\Documents\DOT Offices\District 7\Projects\74518\CADD\Drawings\Drawings\74518-sht-wcrossover.dgn		DRAWN	REVISIED -	70	(26-3VBI)BR-1	Fayette	103	90
		CHECKED -	REVISIED -	CONTRACT NO. 74518				
		DATE -	REVISIED -	ILLINOIS FED. AID PROJECT				
Default	PLOT DATE = 3/23/2017			SCALE:	SHEET	OF	SHEETS	STA. 690+50.00 TO STA. 691+50.00

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**WEST CROSSOVER CROSS SECTIONS**

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

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



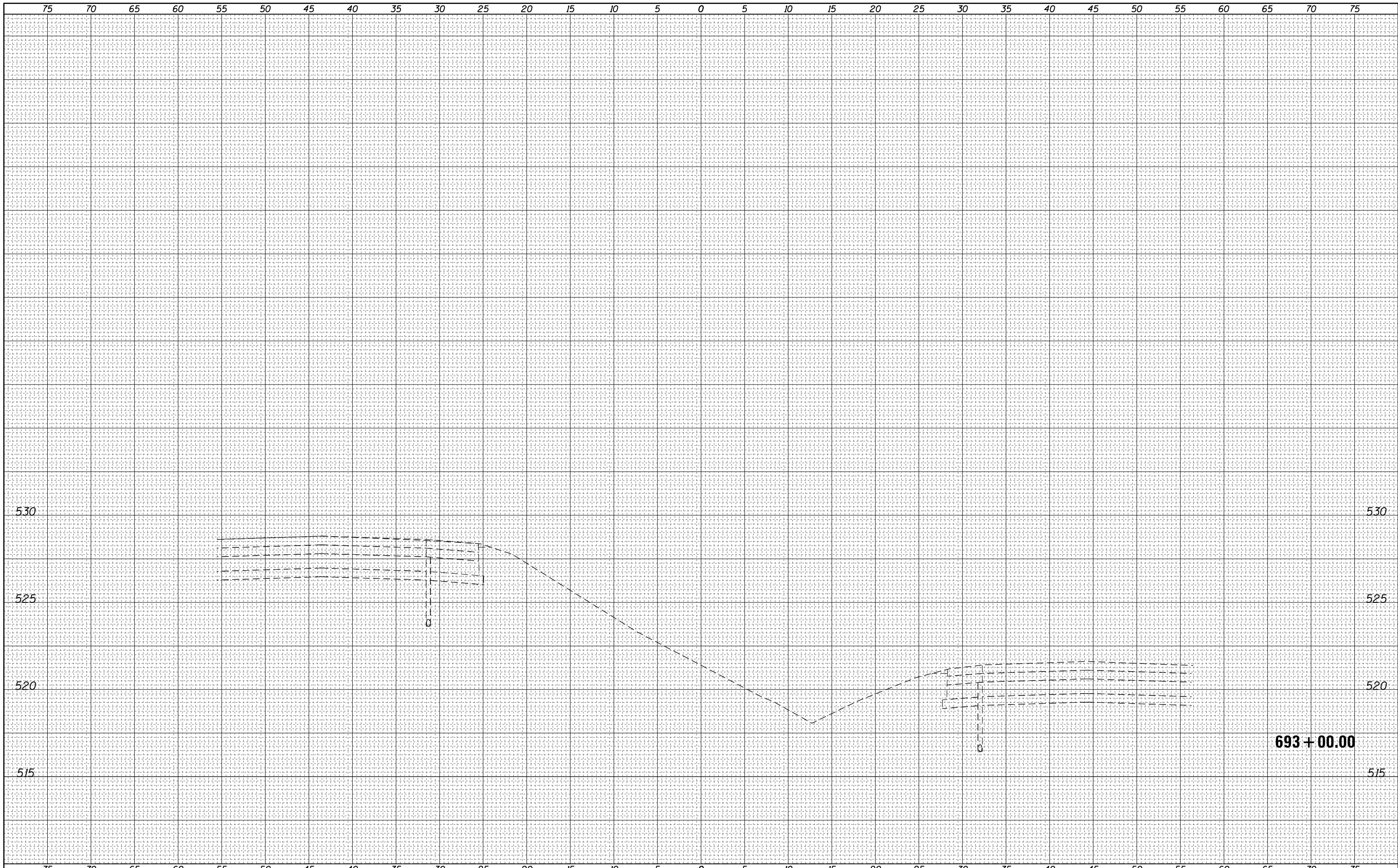
FILE NAME =	USER NAME = steffenk	DESIGNED -	REVISIED -	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11084EBIDINTEG\Illinois.gov\PWIDOT\Documents\IDOT Offices\District 7\Projects\74518\CADD\Drawings\Drawings\74518-sht-wcrossover.dgn	DRAWN	REVISIED -	REVISIED -	70	(26-3VBI)BR-1	Fayette	103	91
Default	PLOT SCALE = 10.0000' / in.	CHECKED -	REVISIED -	SCALE:		SHEET OF SHEETS		CONTRACT NO. 74518
	PLOT DATE = 3/23/2017	DATE -	REVISIED -	STA. 692+00.00 TO STA. 692+50.00		ILLINOIS FED. AID PROJECT		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**WEST CROSSOVER CROSS SECTIONS**

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

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



FILE NAME =  
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USER NAME = steffennk	DESIGNED -	REVISOR -
PROJECT = 74518	CHECKED -	REVISOR -
PLOT SCALE = 10.0000' / in.	DATE -	REVISOR -
PLOT DATE = 3/23/2017		

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

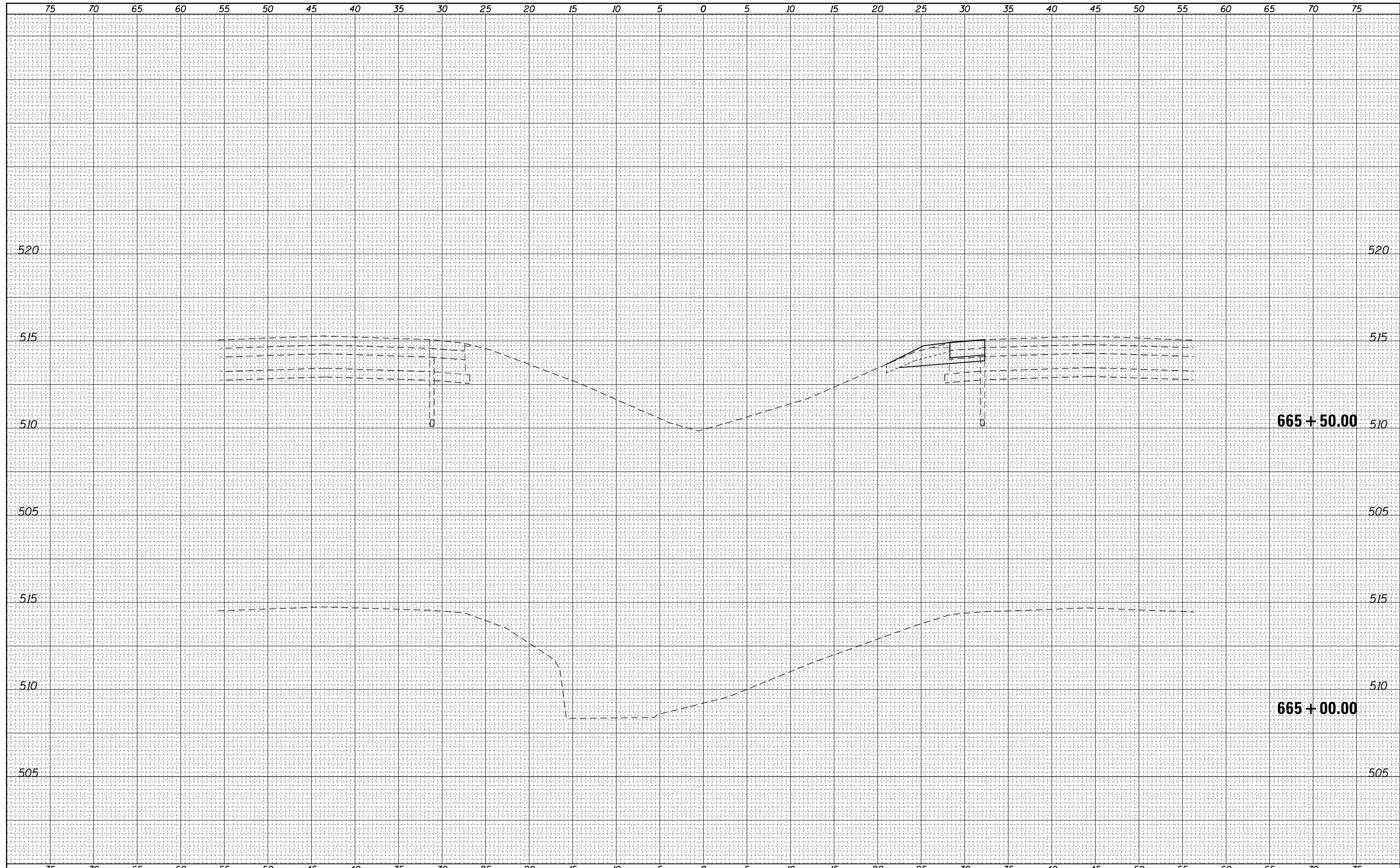
**WEST CROSSOVER CROSS SECTIONS**

SCALE: SHEET OF SHEETS STA. 693+00.00 TO STA. 693+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(26-3VBI)BR-1	Fayette	103	92
CONTRACT NO. 74518				
ILLINOIS FED. AID PROJECT				

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

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

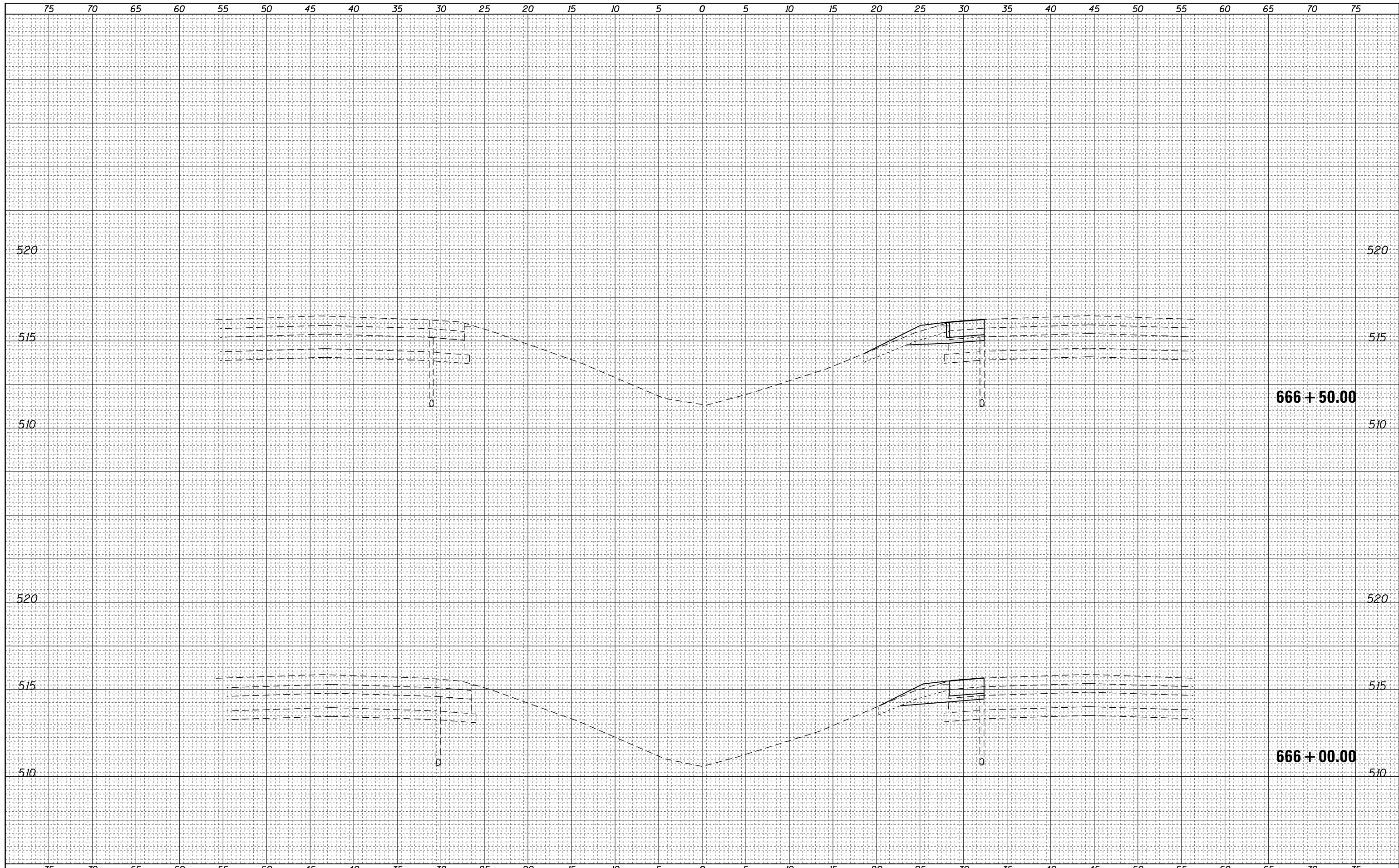


**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EAST CROSSOVER CROSS SECTIONS**

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

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
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FILE NAME = p:\11084EBIDINTEG\Illinois.gov\PWIDOT\Documents\IDOT Offices\District 7\Projects\74518\CADD\Drawings\Drawings\Drawings\74518-sht-ecrossover.dgn  
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USER NAME = steffenk	DESIGNED -	REVISOR -
PROJECT = 74518	CHECKED -	REVISOR -
PLOT SCALE = 10.0000' / in.	DATE -	REVISOR -
PLOT DATE = 3/23/2017		

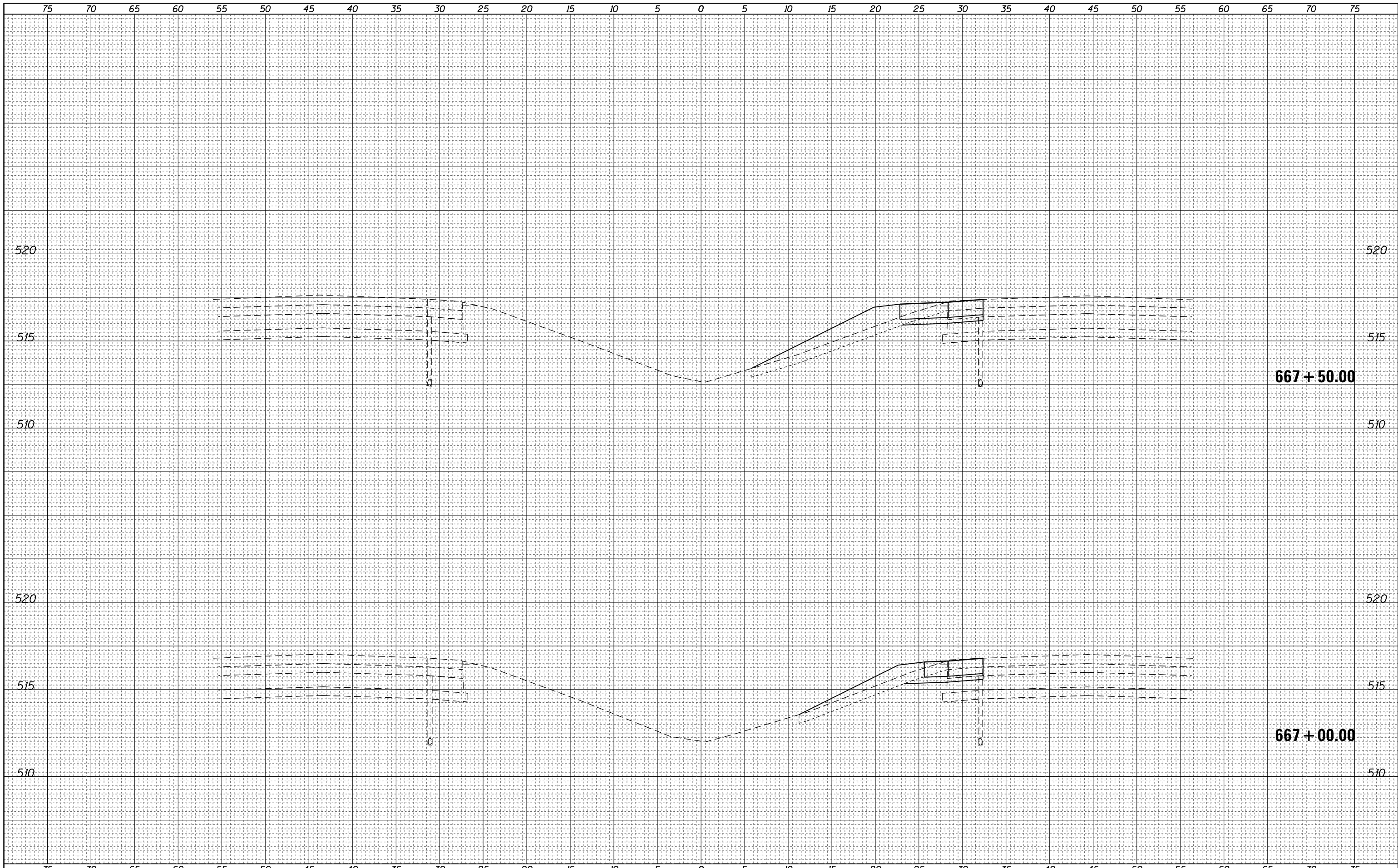
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

EAST CROSSOVER CROSS SECTIONS			
SCALE:	SHEET	OF	SHEETS
			STA. 666+00.00 TO STA. 666+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(26-3VBI)BR-1	Fayette	103	94
			CONTRACT NO.	74518
ILLINOIS FED. AID PROJECT				

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

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



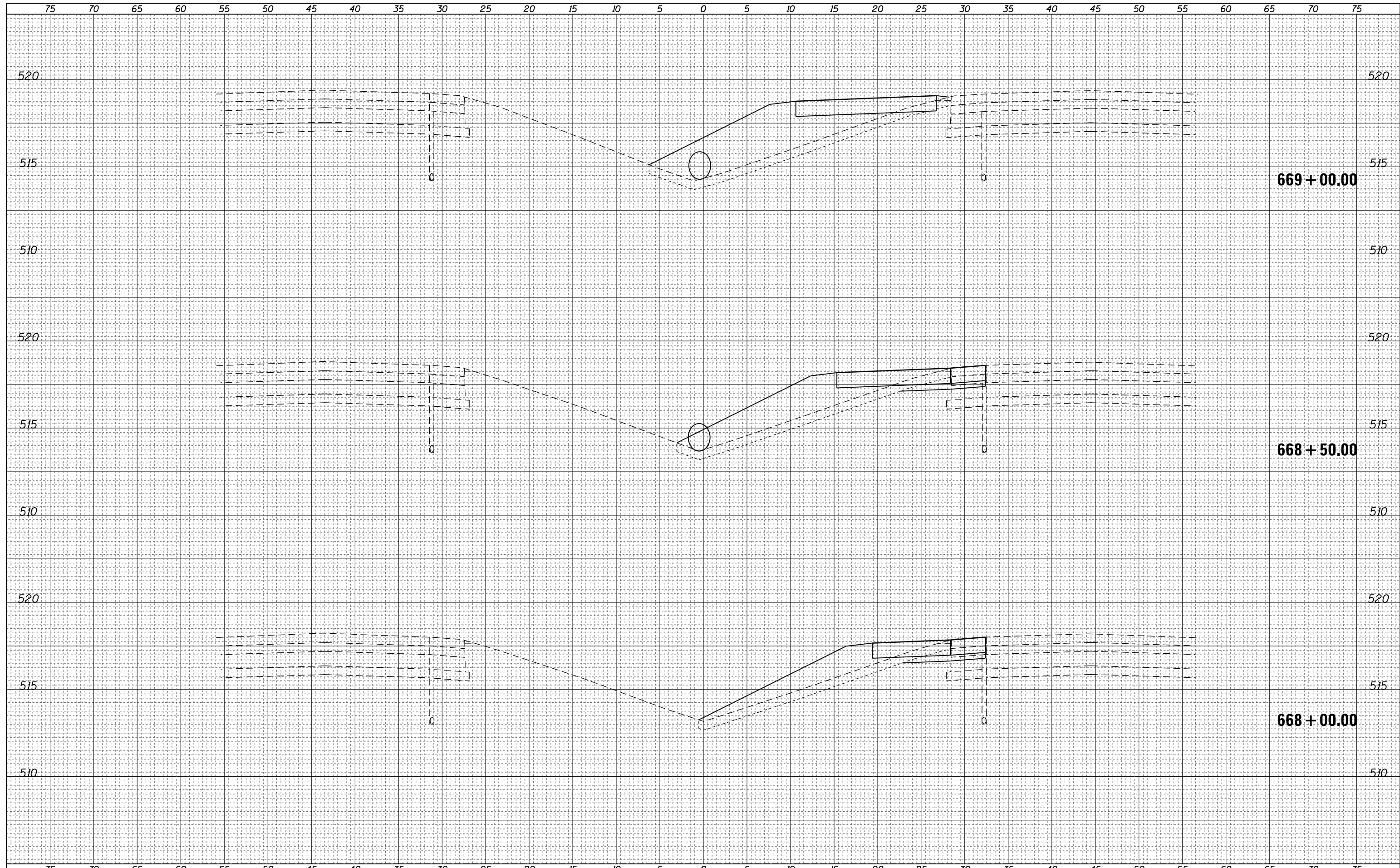
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p:\11084EBIDINTEG\illinois.gov\PIWIDOT\Documents\IDOT Offices\District 7\Projects\74518\CADD\Drawings\Sheets\0774518-sht-ecrossover.dgn	DRAWN	REVISIED -	REVISIED -	70	(26-3VBI)BR-1	Fayette	103	95
		CHECKED -	REVISIED -	CONTRACT NO. 74518				
		DATE -	REVISIED -	SCALE:	SHEET	OF	SHEETS	STA. 667+00.00 TO STA. 667+50.00
				ILLINOIS FED. AID PROJECT				

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EAST CROSSOVER CROSS SECTIONS**

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

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



FILE NAME =	USER NAME = steffemk	DESIGNED -	REVISIED -	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CHECKED -	REVISIED -	CONTRACT NO. 74518				
		DATE -	REVISIED -	ILLINOIS FED. AID PROJECT				
Default	PLOT DATE = 3/23/2017			SCALE:	SHEET	OF	SHEETS	STA. 668+00.00 TO STA. 669+00.00

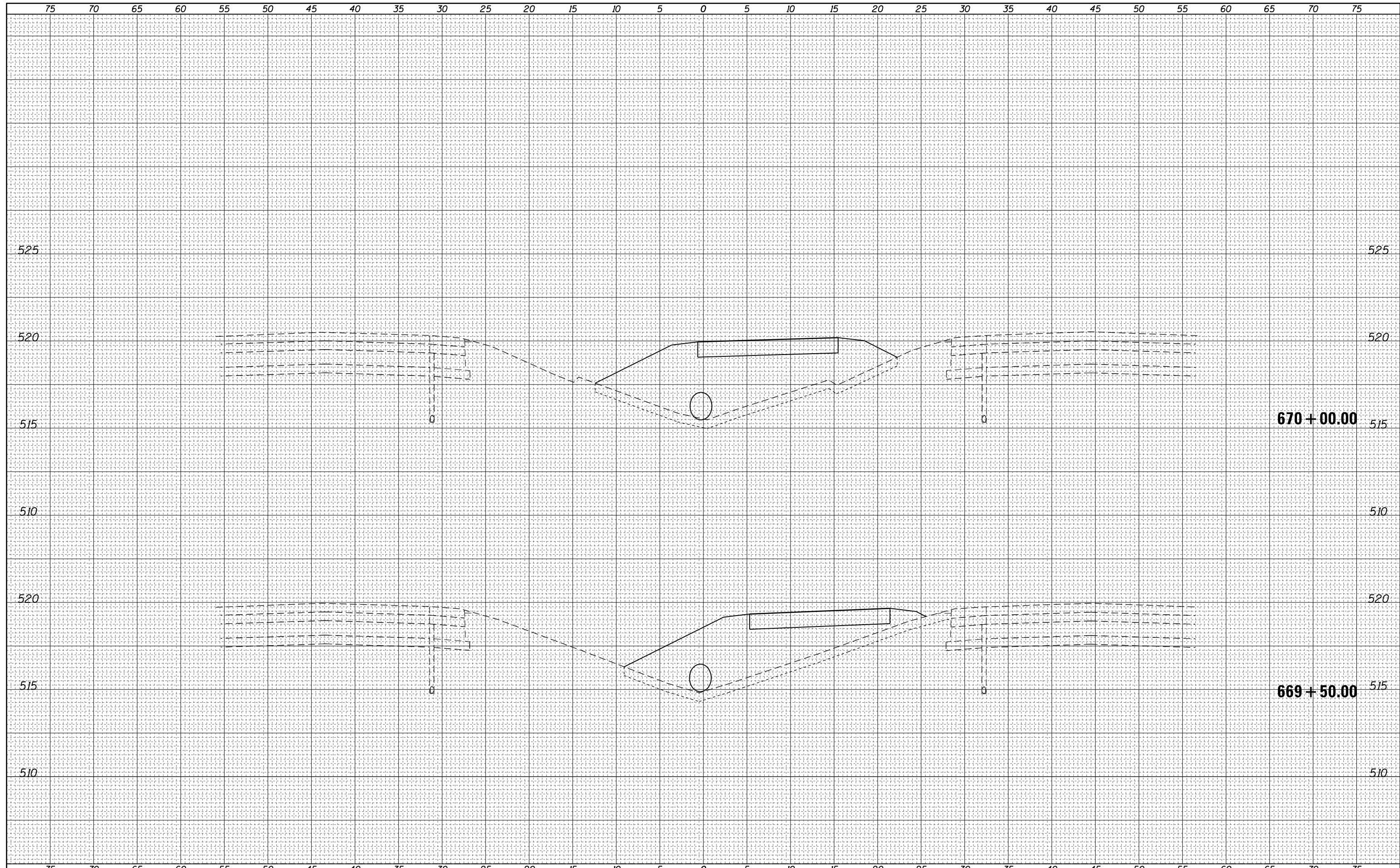
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EAST CROSSOVER CROSS SECTIONS**



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

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

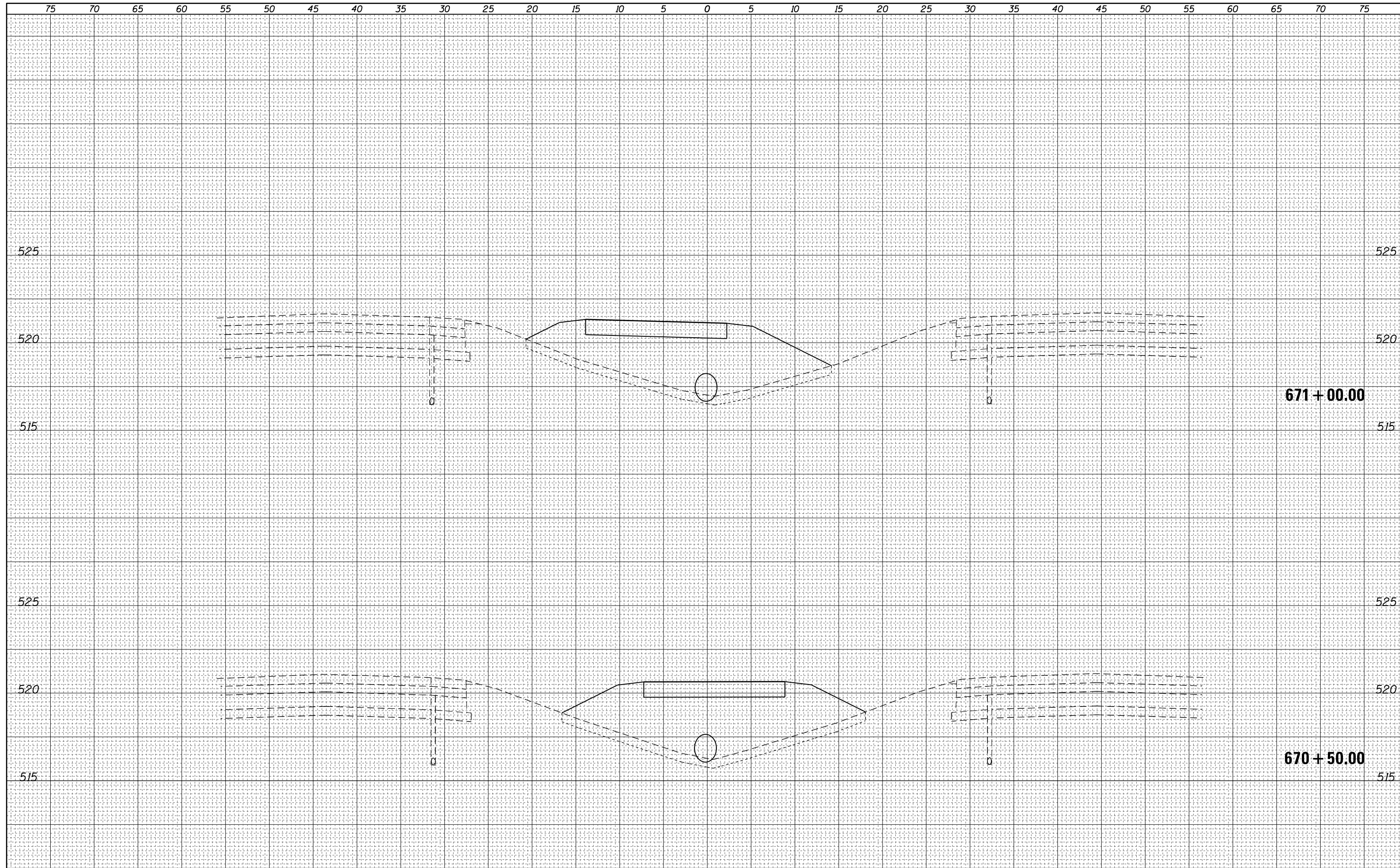


FILE NAME =	USER NAME = steffemk	DESIGNED -	REVISIED -	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = 10.0000' / in.	CHECKED -	REVISIED -	REVISIED -	CONTRACT NO. 74518				
Default	DATE -	REVISIED -	REVISIED -	SCALE:	SHEET	OF	SHEETS	STA. 669+50.00 TO STA. 670+00.00
				ILLINOIS FED. AID PROJECT				

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EAST CROSSOVER CROSS SECTIONS**

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



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

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PROJECT = 74518-sht-ecrossover.dgn	CHECKED -	REVISED -
PLOT SCALE = 10.0000 "/>		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

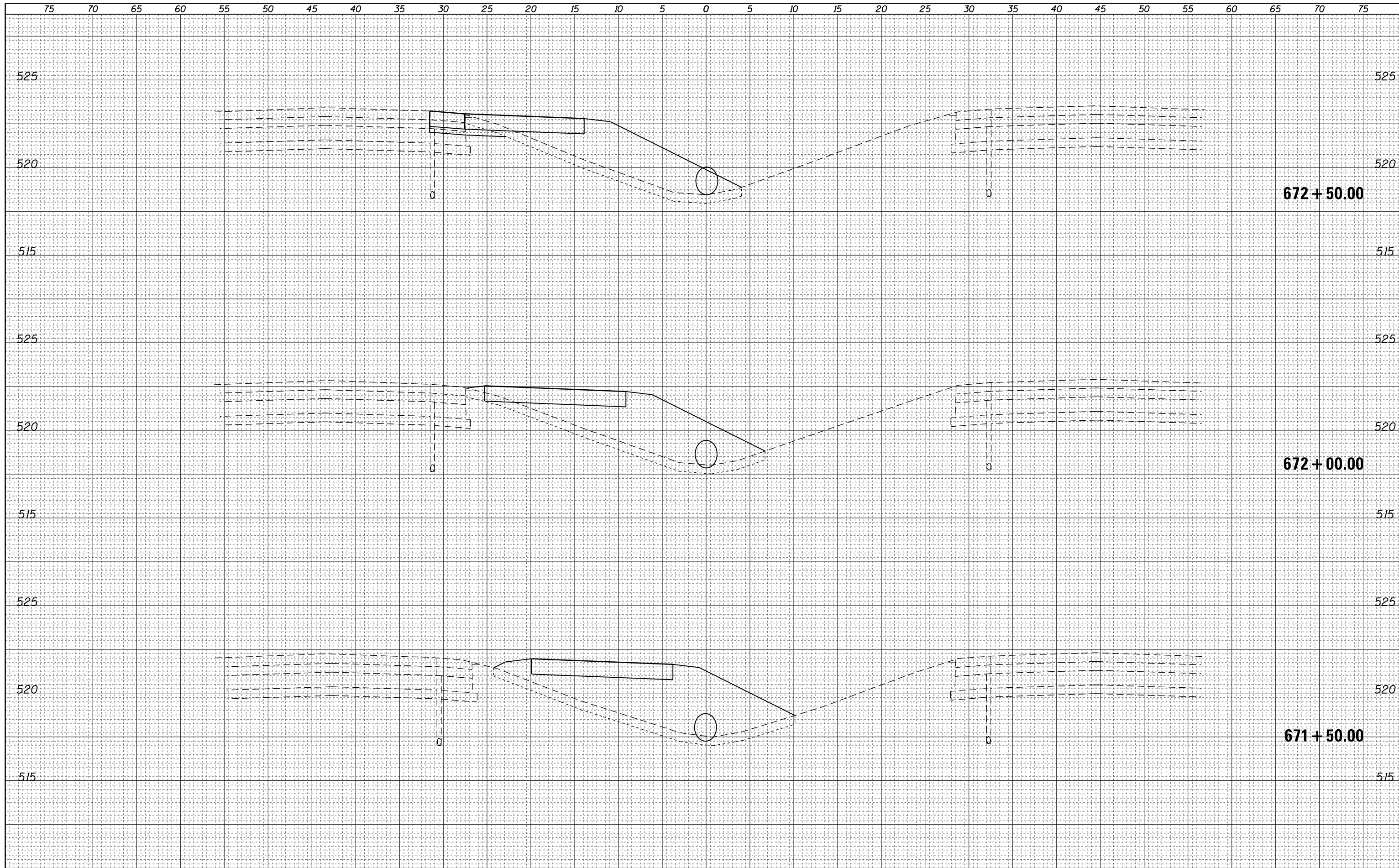
**EAST CROSSOVER CROSS SECTIONS**

SCALE:          SHEET      OF      SHEETS    STA. 670+50.00    TO    STA. 671+00.00

F.A.I. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(26-3VBI)BR-1	Fayette	103	98
CONTRACT NO. 74518			ILLINOIS FED. AID PROJECT	

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

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



FILE NAME =	USER NAME = steffemk	DESIGNED -	REVISIED -	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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Default		CHECKED -	REVISIED -	CONTRACT NO. 74518				
		DATE -	REVISIED -	ILLINOIS FED. AID PROJECT				

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

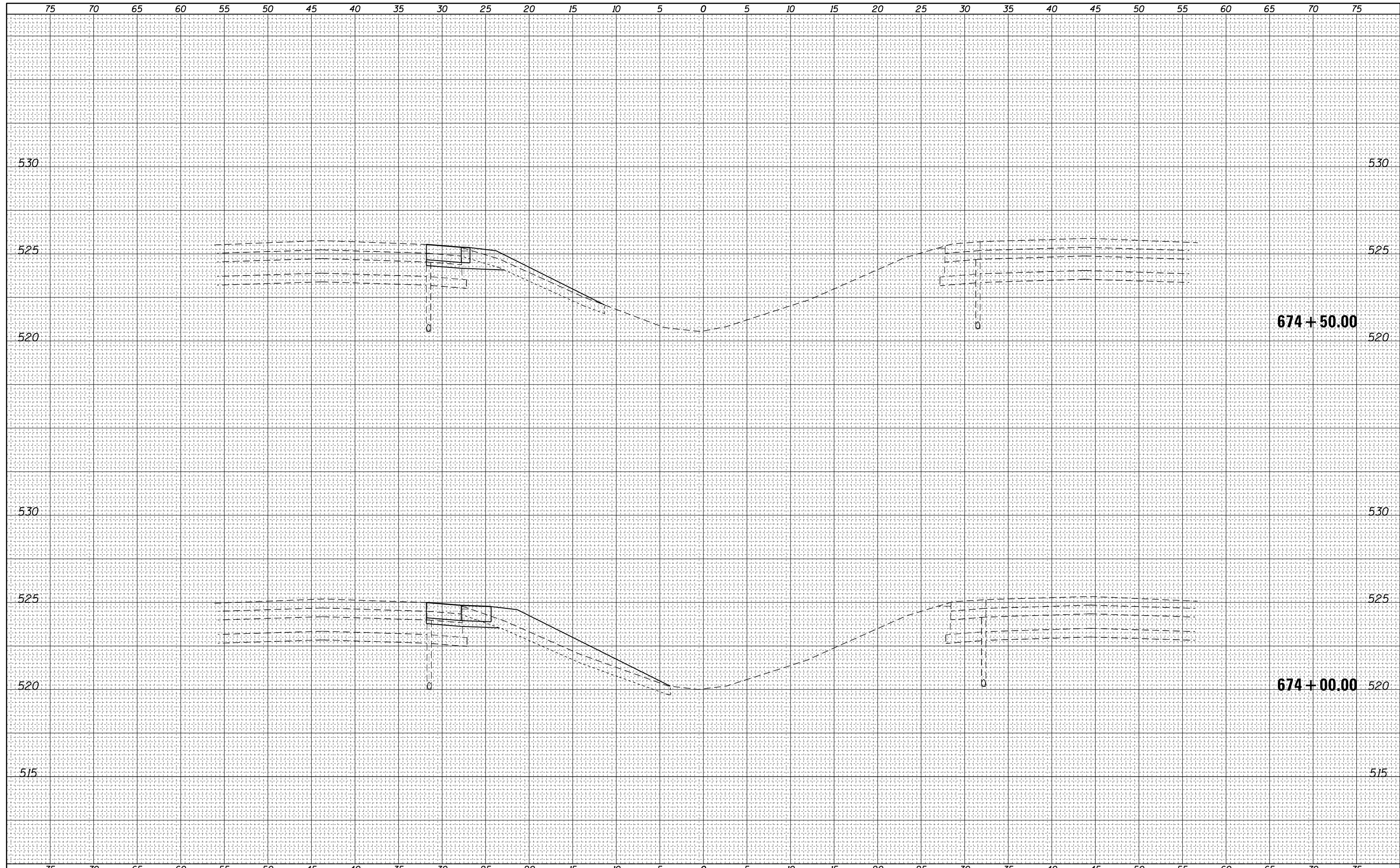
**EAST CROSSOVER CROSS SECTIONS**

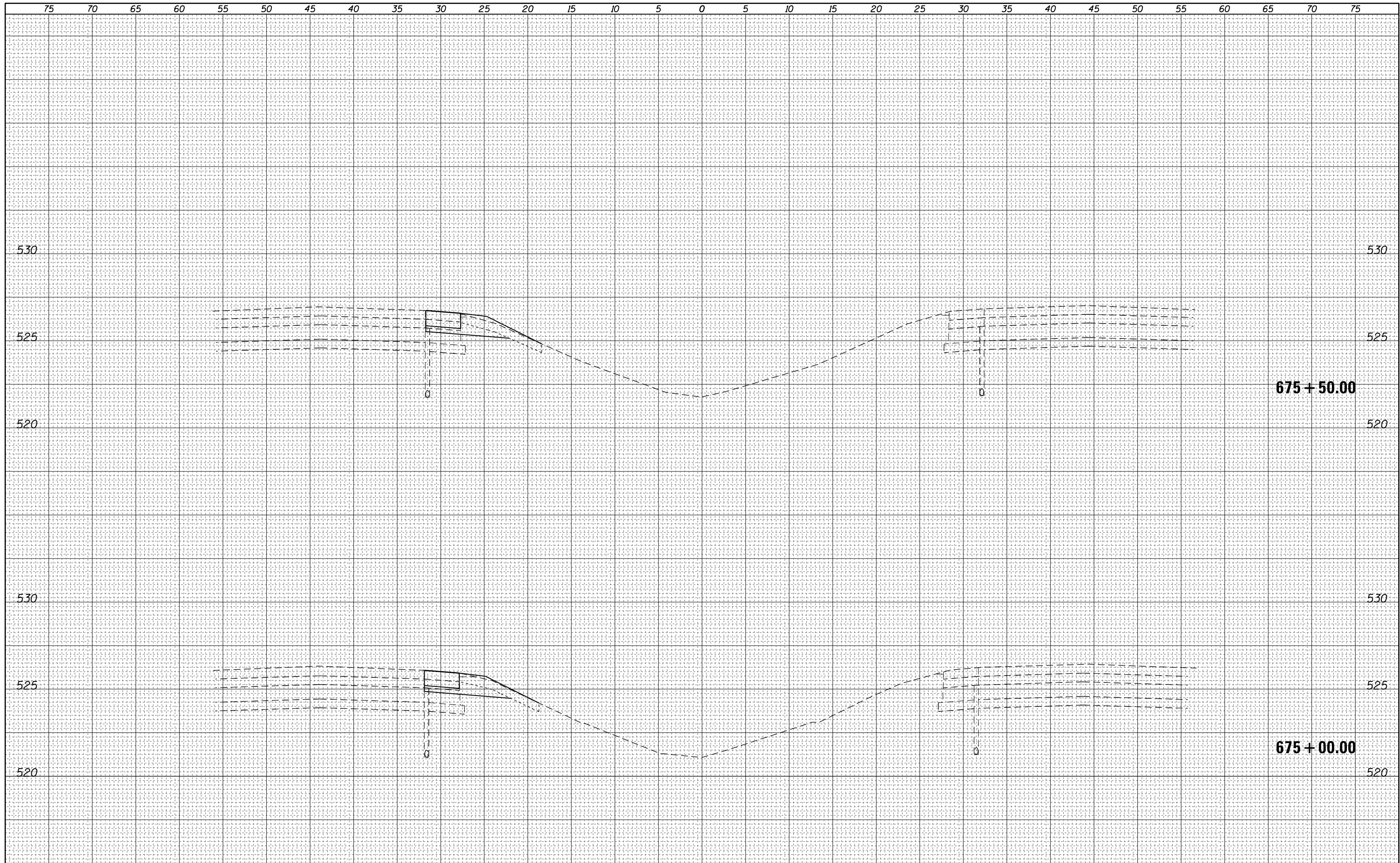
SCALE: SHEET OF SHEETS STA. 671+50.00 TO STA. 672+50.00



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

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





DATE	BY	SURVEYED	PLOTTED
		NOTE BOOK	TEMPLATE
		AREAS CHECKED	AREAS CHECKED

DATE	BY	SURVEYED	PLOTTED
		NOTE BOOK	TEMPLATE
		AREAS CHECKED	AREAS CHECKED

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USER NAME = steffenk	DESIGNED -	REVISED -
PROJECT = 74518-sht-ecrossover.dgn	CHECKED -	REVISED -
PLOT SCALE = 10.0000' / in.	DATE -	REVISED -
PLOT DATE = 3/23/2017		

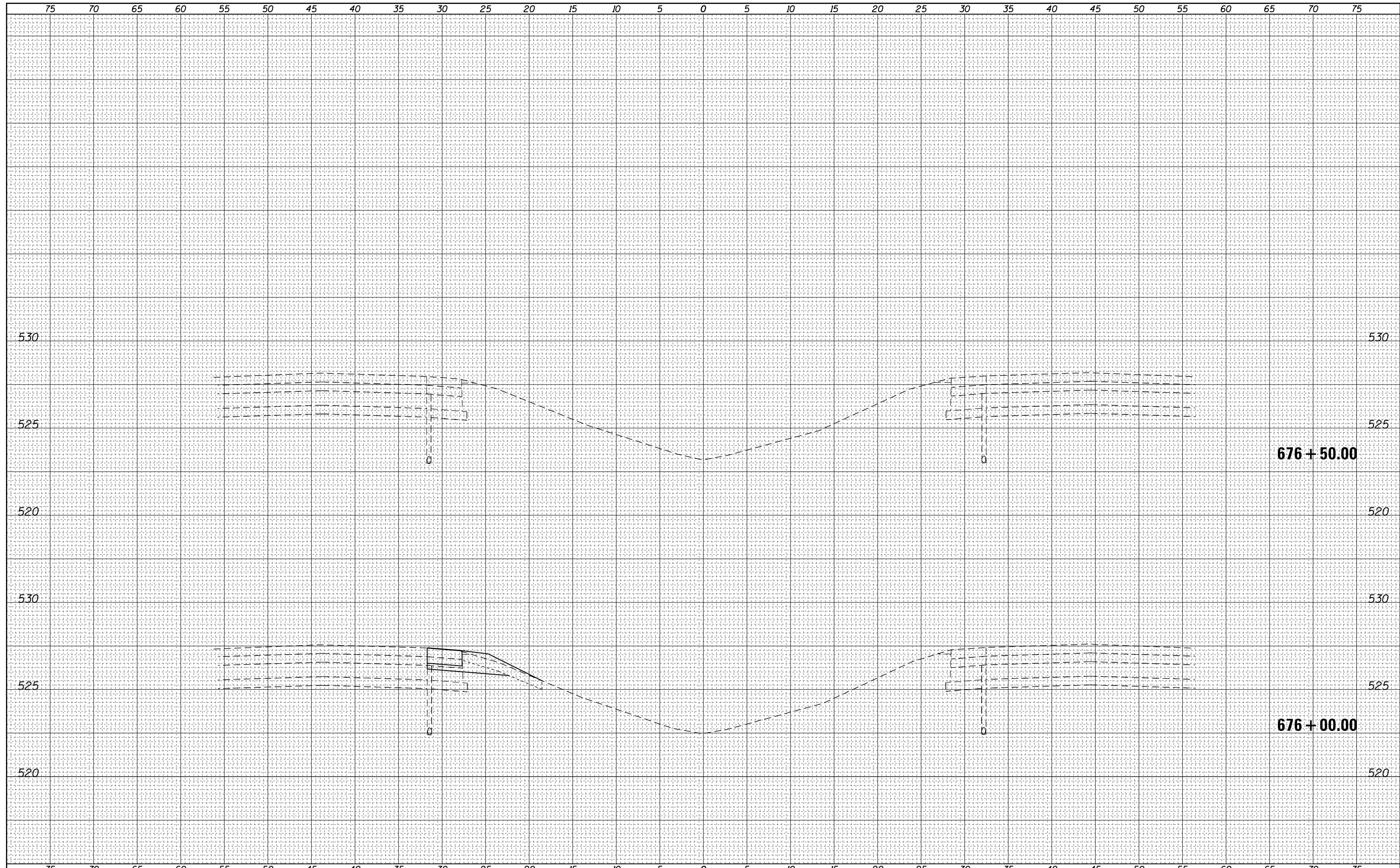
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

SCALE: SHEET OF SHEETS STA. 675+00.00 TO STA. 675+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(26-3VBI)BR-1	Fayette	103	102
CONTRACT NO. 74518			ILLINOIS FED. AID PROJECT	

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

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



FILE NAME =	USER NAME = steffemk	DESIGNED -	REVISIED -	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11084EBIDINTEG\Illinois.gov\PWIDOT\Documents\IDOT Offices\District 7\Projects\74518\CADD\Drawings\Drawings\74518-sht-ecrossover.dgn		DRAWN	REVISIED -	70	(26-3VBI)BR-1	Fayette	103	103
		CHECKED -	REVISIED -	CONTRACT NO. 74518				
		DATE -	REVISIED -	ILLINOIS FED. AID PROJECT				
Default	PLOT DATE = 3/23/2017			SCALE:	SHEET	OF	SHEETS	STA. 676+00.00 TO STA. 676+50.00

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EAST CROSSOVER CROSS SECTIONS**