

F.A.P. RTE. 770	SECTION 115BR-1	COUNTY MOULTRIE	TOTAL SHEETS 44	SHEET NO. 1
		ILLINOIS	CONTRACT NO. 74326	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED HIGHWAY PLANS

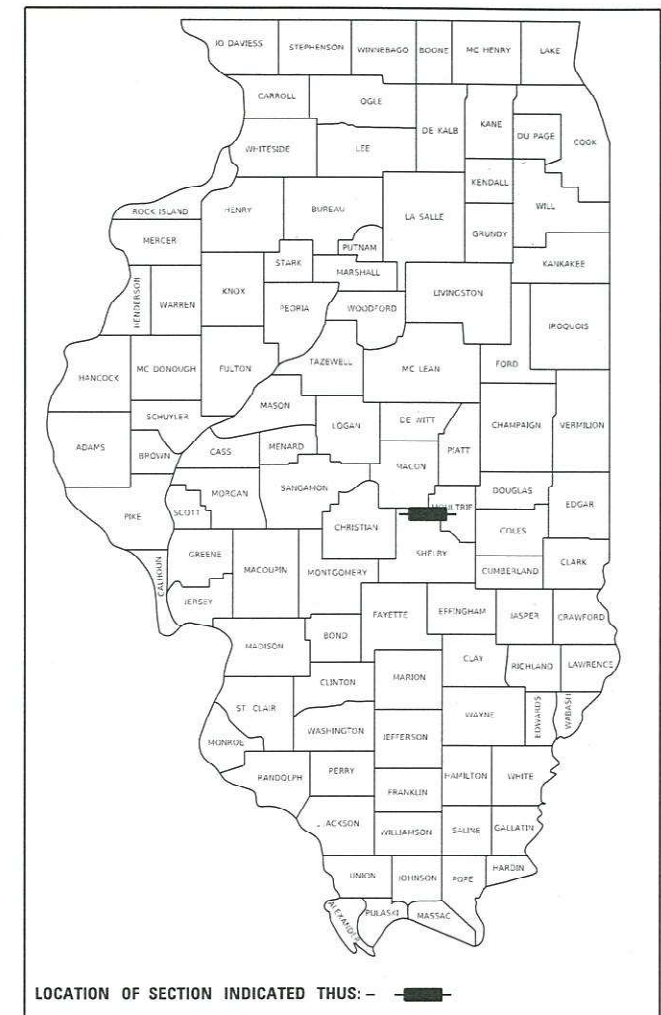
FAP ROUTE 770 (IL 128)
SECTION 115BR-1
PROJECT STP-VVDE(086)
SUPERSTRUCTURE REPLACEMENT
MOULTRIE COUNTY

C-97-089-08

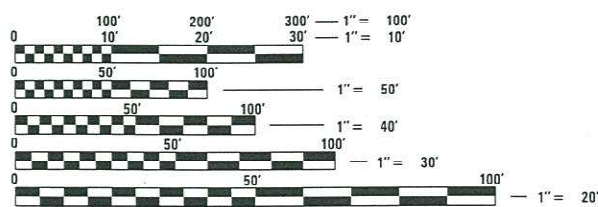
FOR INDEX OF SHEETS, SEE SHEET NO. 2

AADT (2020) = 2800

D-97-041-08



PROJECT LOCATION
STATION 728 + 37.63



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 EXCAVATORS
1-800-892-0123
OR 811

PROJECT ENGINEER: DEBRA G. BARRETT
PROJECT MANAGER: DEBRA G. BARRETT
PHONE NUMBER: (217) 342-8243
CONTRACT NO. 74326

GROSS LENGTH = 57.7 FT. = 0.01 MILE
NET LENGTH = 57.7 FT. = 0.01 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED August 19, 2020
Jeffrey P. Myrka
REGIONAL ENGINEER

October 2, 2020
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

October 2, 2020
[Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GENERAL NOTES

THIS PROJECT IS LOCATED ON FAP 770 (IL 128) IN MOULTRIE COUNTY, OVER WILBORN CREEK, 1/3 MILES SOUTH OF BETHANY ROAD.

THE WORK ON THIS PROJECT CONSISTS OF REMOVING AND REPLACING THE CONCRETE DECK BEAMS AND WEARING SURFACE, NEW APPROACH PAVEMENTS, EARTH EXCAVATION AND EMBANKMENT, HOT-MIX ASPHALT MILLING, RESURFACING, HOT-MIX ASPHALT SHOULDERS, AGGREGATE SHOULDERS, GUARDRAIL, PAVEMENT MARKING, TRAFFIC CONTROL, AND ANY OTHER WORK NECESSARY TO COMPLETE THIS SECTION. THIS WORK WILL BE COMPLETED UTILIZING A ROAD CLOSURE WITH A MARKED ROUTE DETOUR.

THE LOCATION OF THE BENCHMARK IN THE NEW STRUCTURE SHALL BE DETERMINED BY THE ENGINEER.

THE RESIDENT ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE CURING TIME FOR THE HMA SURFACE COURSE.

MATERIAL FOR AGGREGATE WEDGE SHOULDER, TYPE B SHALL BE CRUSHED STONE, CRUSHED CONCRETE OR RAP.

SHORT TERM PAVEMENT MARKING ON THE MILLED SURFACE SHALL BE PAINT. ALL OTHER SHORT TERM PAVEMENT MARKINGS SHALL BE TAPE.

QUANTITIES FOR PAINT PAVEMENT MARKING - LINE 4" CONSISTS OF 145 FEET OF YELLOW, 1158 FEET OF WHITE.

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE TO THIS PROJECT:

APPLICATION	AC/PG	DESIGN AIR VOIDS	MIXTURE COMPOSITION	FRICTION AGGREGATE	TESTING PARAMETER
HMA SURFACE COURSE, MIX "C", N70	PG 64-22	4.0% @ N=70	IL-9.5	MIXTURE C	QC/QA
HMA BINDER COURSE, IL-9.5FG, N70 (VAR DEPTH)	PG 64-22	4.0% @ N=70	IL-9.5FG	N/A	QC/QA
INCIDENTAL HMA SURFACING	PG 64-22	4.0% @ N=70	IL-9.5	MIXTURE C	QC/QA
HMA SHOULDERS (TOP LIFT)	PG 64-22	4.0% @ N=70	IL-9.5	MIXTURE C	QC/QA
HMA SHOULDERS (BOTTOM LIFT)	PG 64-22	4.0% @ N=70	IL-19.0	N/A	QC/QA
PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH (TOP LIFT)	PG 64-22	4.0% @ N=70	IL-9.5	MIXTURE C	QC/QA
PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH (BOTTOM LIFT)	PG 64-22	4.0% @ N=70	IL-19.0	N/A	QC/QA

INDEX OF SHEETS

SHEET NO.	ITEM
1	COVER SHEET
2	GENERAL NOTES, INDEX OF SHEETS & LIST OF STANDARDS
3-5	SUMMARY OF QUANTITIES
6	TYPICAL CROSS SECTION
7	SCHEDULES OF QUANTITIES
8	SURVEY MARKER TIES
9	PLAN AND PROFILE SHEET
10	DETOUR SIGNING
11	GUARDRAIL DETAILS
12-28	BRIDGE PLANS
29	MILLING/PAVING DETAILS
30-33	DISTRICT DETAILS
34-44	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
000001-07	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
420406	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
515001-04	NAME PLATE FOR BRIDGES
630001-12	STEEL PLATE BEAM GUARDRAIL
630201-07	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 GUARDRAIL TERMINALS
631032-09	TRAFFIC BARRIER TERMINAL, TYPE 6A
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS >= 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701901-08	TRAFFIC CONTROL DEVICES
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVMENT MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
BLR21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

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PLOT DATE = 8/19/2020	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES, INDEX OF SHEETS &
LIST OF STANDARDS**

SCALE:	SHEET 1	OF 1	SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	115BR-1	MOULTRIE	44	2
			CONTRACT NO. 74326	
		ILLINOIS	FED. AID PROJECT	

80% FED
20% STATE

80% FED
20% STATE

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0013		
20400800	FURNISHED EXCAVATION	CU YD	519	519		
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	180	180		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	120	120		
28000400	PERIMETER EROSION BARRIER	FOOT	800	800		
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1138	1138		
40602970	HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N70	TON	149	149		
40604052	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	TON	142	142		
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	5	5		
42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	SQ YD	144	144		
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	83	83		
48203023	HOT-MIX ASPHALT SHOULDERS, 6 1/2"	SQ YD	267	267		
50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1	1		
50102400	CONCRETE REMOVAL	CU YD	3.4	3.4		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0013		
50300225	CONCRETE STRUCTURES	CU YD	32	32		
50300260	BRIDGE DECK GROOVING	SQ YD	409	409		
50300300	PROTECTIVE COAT	SQ YD	435	435		
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	92.8	92.8		
50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	1895	1895		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	43930	43930		
50901050	STEEL RAILING, TYPE SM	FOOT	178	178		
51500100	NAME PLATES	EACH	1	1		
52000110	PREFORMED JOINT STRIP SEAL	FOOT	39	39		
58700300	CONCRETE SEALER	SQ FT	65.0	65.0		
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	225	225		
63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4	4		

* SPECIALTY ITEM

REV. - MS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	115BR-1	MOULTRIE	44	3
CONTRACT NO. 74326				
ILLINOIS FED. AID PROJECT				

80% FED
20% STATE

80% FED
20% STATE

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0013		
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL)	EACH	4	4		
	TANGENT					
63200310	GUARDRAIL REMOVAL	FOOT	703	703		
66700205	PERMANENT SURVEY MARKERS, TYPE I	EACH	1	1		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	5	5		
67100100	MOBILIZATION	L SUM	1	1		
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD	L SUM	1	1		
	701201					
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28	28		
70300100	SHORT TERM PAVEMENT MARKING	FOOT	246	246		
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	28	28		
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	1303	1303		
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4		
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1303	1303		
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	8	8		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0013		
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	8	8		
X0326440	SURFACE REMOVAL, VARIABLE DEPTH (SPECIAL)	SO YD	42	42		
X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.4	0.4		
X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	1	1		
X4060995	TEMPORARY RAMP, SPECIAL	SO YD	7	7		
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SO YD	1485	1485		
X4404400	PAVEMENT REMOVAL (SPECIAL)	SO YD	365	365		
X5030305	CONCRETE WEARING SURFACE, 5"	SO YD	211	211		
X7011800	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR	L SUM	1	1		
	21					
Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	18	18		
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SO FT	74	74		
Z0016702	DETOUR SIGNING	L SUM	1	1		

* SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

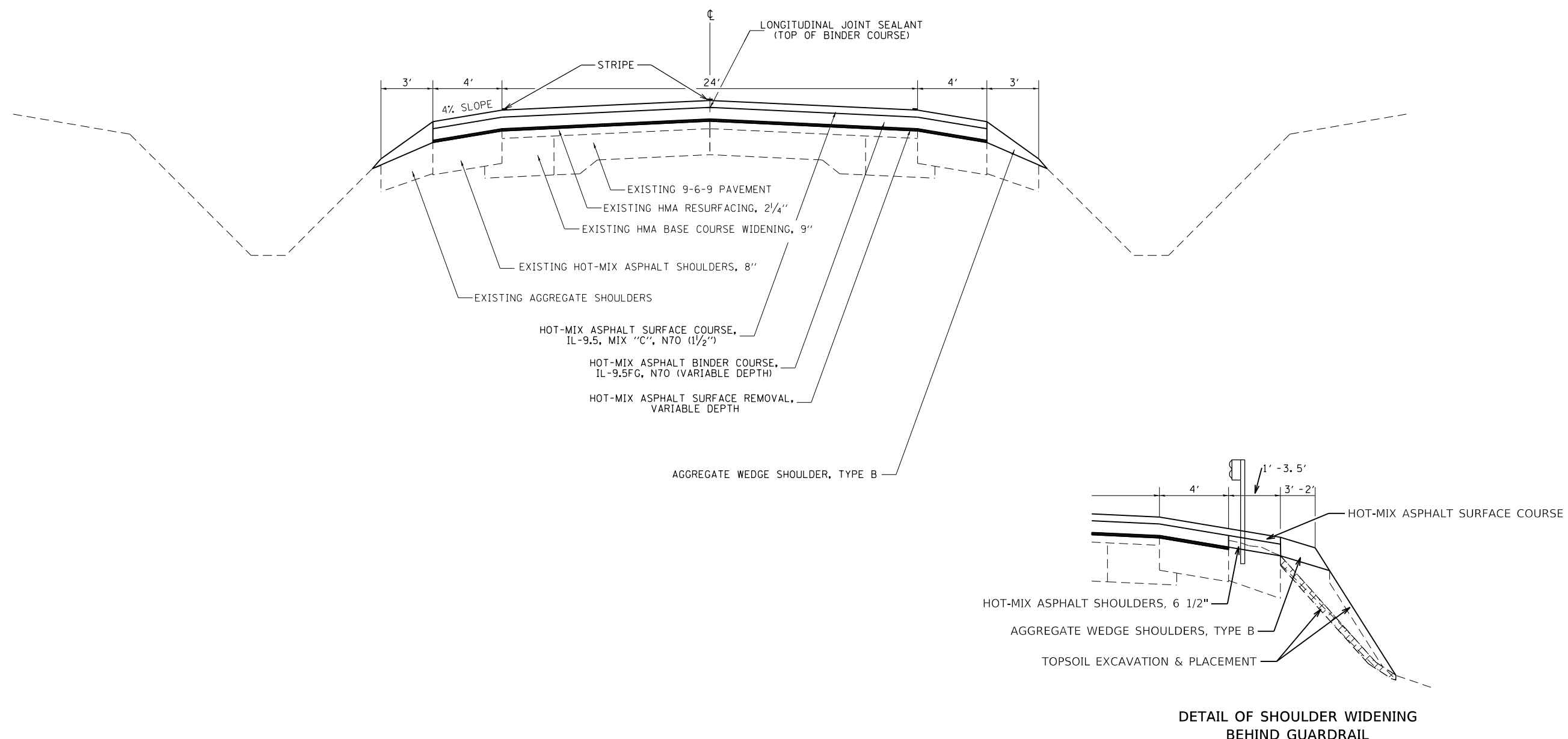
SUMMARY OF QUANTITIES

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	115BR-1	MOULTRIE	44	4
CONTRACT NO. 74326			ILLINOIS FED. AID PROJECT	

TYPICAL CROSS SECTION

STATION 725 + 75 TO 731 + 54



DETAIL OF SHOULDER WIDENING
BEHIND GUARDRAIL

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	115BR-2	MOULTRIE	44	6
CONTRACT NO. 74326			ILLINOIS FED. AID PROJECT	

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PAVING											
STATION	TO	STATION	LENGTH	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH SQ YD	BITUMINOUS MATERIALS (TACK COAT) POUND	HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N70 TON	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70 TON	HOT-MIX ASPHALT SHOULDERS, 6 1/2" SQ YD	AGGREGATE WEDGE SHOULDER, TYPE B TON	LONGITUDINAL JOINT SEALANT FOOT	
725+75.00	-	725+81.50	6.5	23.1	15.6	1.0	1.9		0.6	6.5	
725+81.50	-	725+98.00	16.5	58.7	42.4	2.5	5.3	4.1	1.3	16.5	
725+98.00	-	726+00.00	2.0	7.1	5.3	0.3	0.7	0.8	0.3	2.0	
726+00.00	-	726+25.00	25.0	88.9	66.6	3.7	8.3	9.7	3.6	25.0	
726+25.00	-	726+50.00	25.0	88.9	66.6	3.7	8.3	9.7	3.6	25.0	
726+50.00	-	726+65.00	15.0	53.3	39.9	3.6	5.0	5.8	2.3	15.0	
726+65.00	-	726+75.00	10.0	35.6	28.3	2.4	3.5	6.4	1.4	10.0	
726+75.00	-	726+80.00	5.0	17.8	14.2	2.2	1.8	3.2	0.7	5.0	
726+80.00	-	727+00.00	20.0	71.1	58.5	8.9	7.3	15.6	4.0	20.0	
727+00.00	-	727+25.00	25.0	88.9	73.1	15.3	9.1	19.4	5.1	25.0	
727+25.00	-	727+50.00	25.0	88.9	73.1	17.7	9.1	19.4	5.1	25.0	
727+50.00	-	727+58.12	8.1	28.9	23.8	6.1	3.0	6.3	1.6	8.1	
727+58.12	-	727+77.65	19.5	BRIDGE APPROACH CONNECTOR				13.0	4.0		
727+77.65	-	728+07.65	30.0	BRIDGE APPROACH PAVEMENT				20.0	6.1		
728+07.65	-	728+08.80	1.2	EXPANSION JOINT							
728+08.80	-	728+66.47	57.7	BRIDGE DECK							
728+66.47	-	728+96.47	30.0	BRIDGE APPROACH PAVEMENT				20.0	6.1		
728+96.47	-	729+16.00	19.5	BRIDGE APPROACH CONNECTOR				13.0	4.0		
729+16.00	-	729+25.00	9.0	32.0	26.3	7.4	3.3	7.0	1.8	9.0	
729+25.00	-	729+50.00	25.0	88.9	73.1	18.3	9.1	19.4	5.1	25.0	
729+50.00	-	729+75.00	25.0	88.9	73.1	15.0	9.1	19.4	5.1	25.0	
729+75.00	-	729+94.00	19.0	67.6	55.6	8.9	6.9	14.8	3.8	19.0	
729+94.00	-	730+00.00	6.0	21.3	16.9	2.8	2.1	3.8	0.9	6.0	
730+00.00	-	730+09.00	9.0	32.0	25.3	2.9	3.2	5.8	1.4	9.0	
730+09.00	-	730+25.00	16.0	56.9	42.6	5.2	5.3	6.2	2.3	16.0	
730+25.00	-	730+50.00	25.0	88.9	66.6	5.1	8.3	9.7	3.6	25.0	
730+50.00	-	730+75.00	25.0	88.9	66.6	3.7	8.3	9.7	3.6	25.0	
730+75.00	-	730+76.00	1.0	3.6	2.7	0.1	0.3	0.4	0.1	1.0	
730+76.00	-	730+91.00	15.0	53.3	38.5	2.2	4.8	3.8	2.1	15.0	
730+91.00	-	731+00.00	9.0	32.0	21.6	1.3	2.7		0.8	9.0	
731+00.00	-	731+25.00	25.0	88.9	60.0	3.7	7.5		2.1	25.0	
731+25.00	-	731+50.00	25.0	78.2	52.8	3.3	6.6		1.1	25.0	
731+50.00	-	731+54.00	4.0	12.4	8.4	0.5	1.0		0.2	4.0	
TOTALS =				1485	1138	149	142	267	83	422	

GUARDRAIL									
	STATION	TO	STATION	FEET	FEET	EACH	EACH	EACH	EACH
LT.	726+89.67	-	727+39.67			1			1
LT.	727+39.67	-	727+64.67		25.0				
LT.	727+64.67	-	728+02.17				1		
LT.	728+02.17	-	728+91.00	88.8					
LT.	728+91.00	-	729+28.50				1		
LT.	729+28.50	-	730+16.00		87.5				
LT.	730+16.00	-	730+66.00			1			1
RT.	726+08.11	-	726+58.11			1			1
RT.	726+58.11	-	727+45.61		87.5				
RT.	727+45.61	-	727+83.11				1		
RT.	727+83.11	-	728+71.94	88.8					
RT.	728+71.94	-	729+09.44				1		
RT.	729+09.44	-	729+34.44		25.0				
RT.	729+34.44	-	729+84.44			1			1
TOTALS =				178	225	4	4	8	4

GUARDRAIL REMOVAL				
	STATION	TO	STATION	FEET
LT.	726+83.38	-	728+21.63	138.25
LT.	728+79.13	-	730+92.38	213.25
RT.	725+89.62	-	728+02.87	213.25
RT.	728+60.37	-	729+98.62	138.25
TOTAL =				703.00

PAVEMENT MARKING								
STATION	TO	STATION	LENGTH	FEET	SQ FT	FEET	FEET	EACH
725+75.00	-	731+54.00	579.0	245.7	27.3	1302.8	1302.8	7.2
TOTALS =				246	28	1303	1303	8

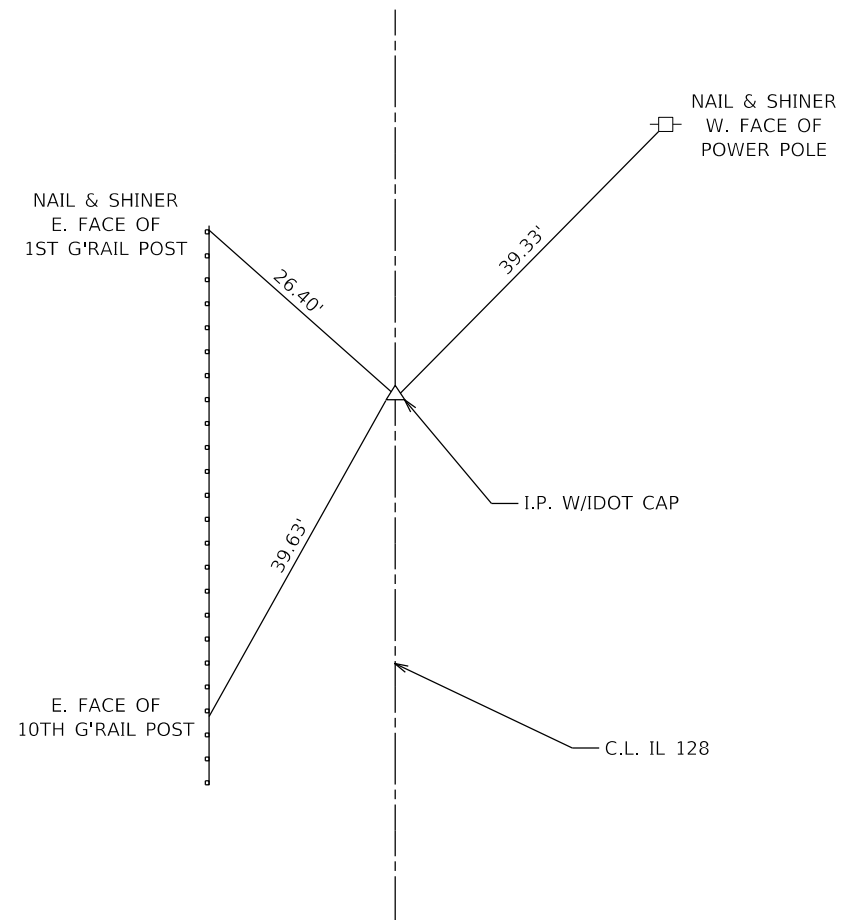
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SCHEDULES OF QUANTITIES				
SCALE:	SHEET 1	OF 1	SHEETS	STA. TO STA.

F.A.P. RTE. 770	SECTION 115BR-1	COUNTY MOULTRIE	TOTAL SHEETS 44	SHEET NO. 7
		CONTRACT NO. 74326		
		ILLINOIS	FED. AID PROJECT	

STATION 730 + 72.47 (P.I. KINK)



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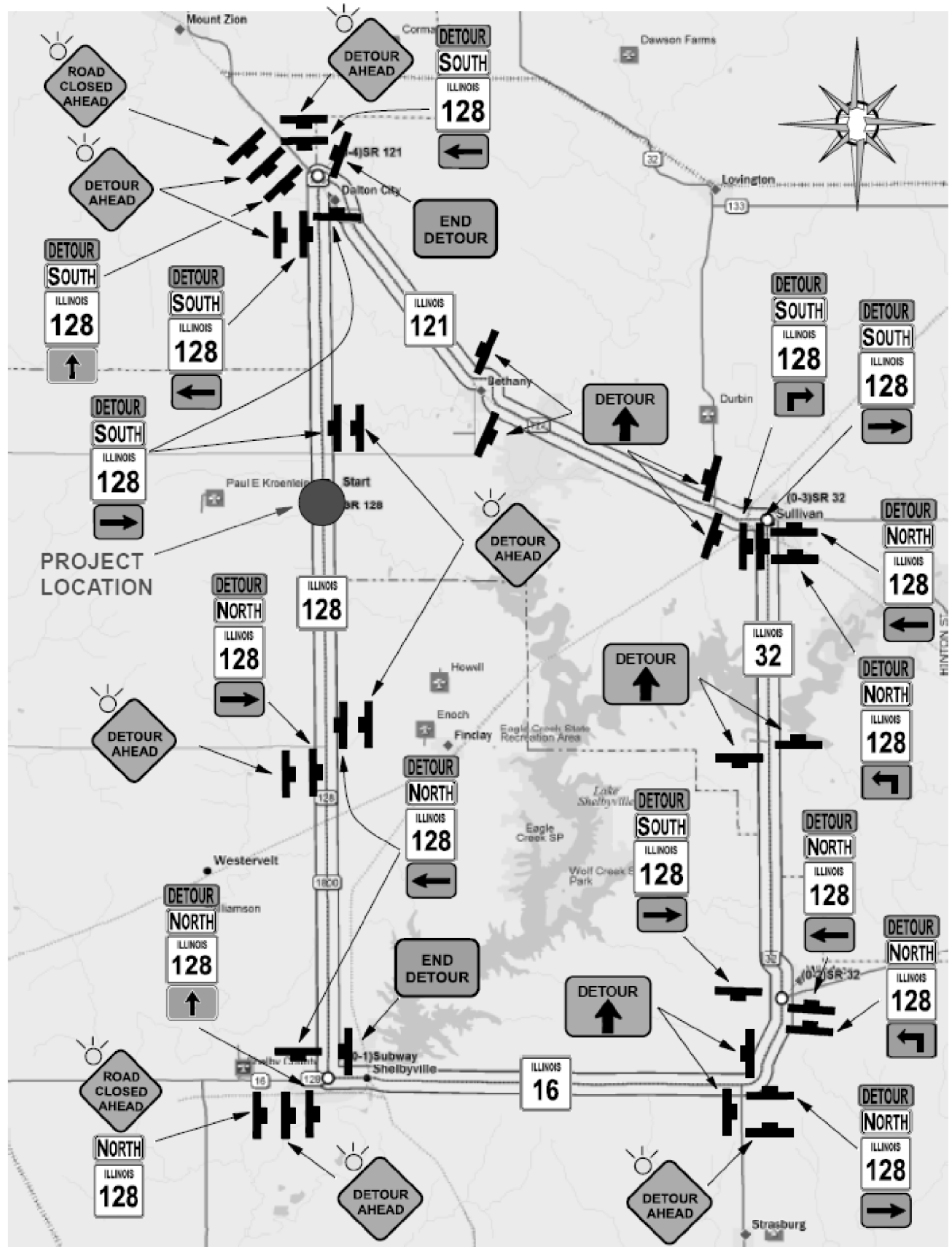
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**















SURVEY MARKER TIES

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	115BR-1	MOULTRIE	44	8
CONTRACT NO. 74326			ILLINOIS FED. AID PROJECT	



SIGN LEGEND

 W20-3(O)-48	 W20-2(O)-48
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 M4-8-2412	 M6-3(O)-3018
 M6-1L(O)-3018	 M6-1R(O)-3018
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 M3-1-3015	 M3-3-3015
 M1-I100-3024	 Flashing Light

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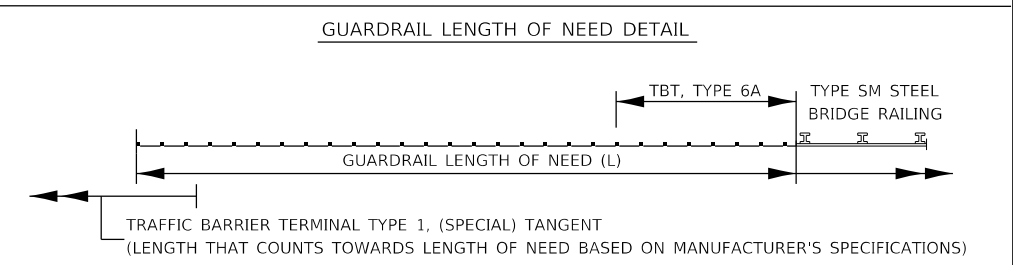
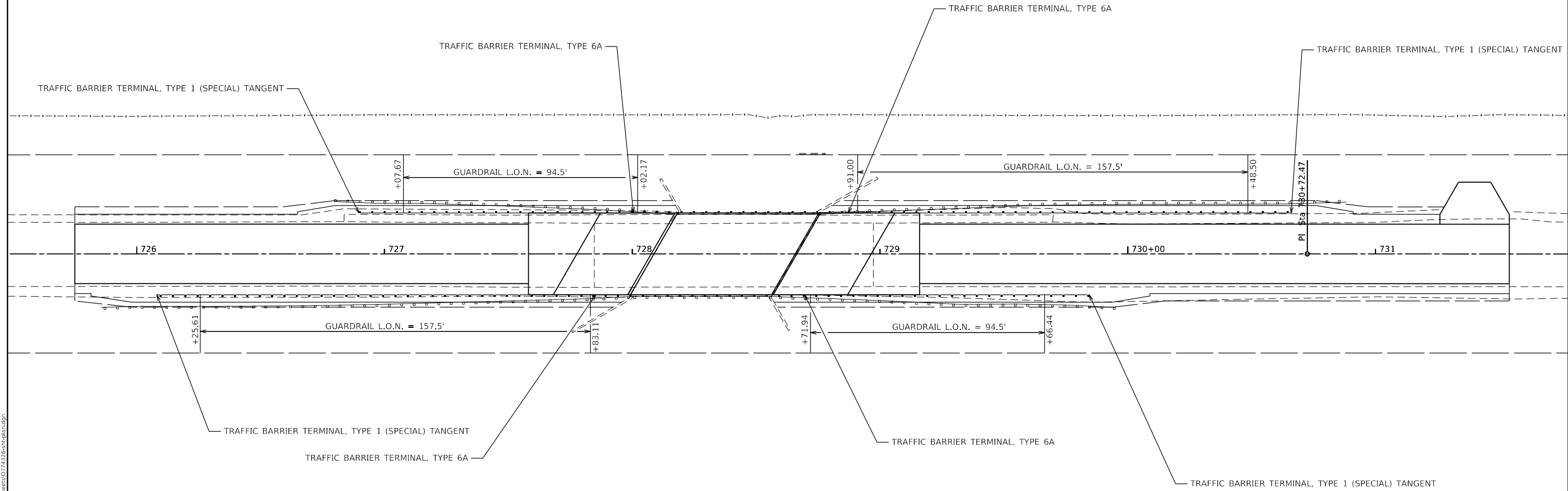
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DRAWN -	REVISED -	
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PLOT DATE = 8/19/2020	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETOUR SIGNING			
SCALE:	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	115BR-1	MOULTRIE	44	10
CONTRACT NO. 74326				
ILLINOIS FED. AID PROJECT				

GUARDRAIL DETAILS



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USER NAME = steffemk	DESIGNED -	REVISED -
DRAWN -	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/19/2020	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

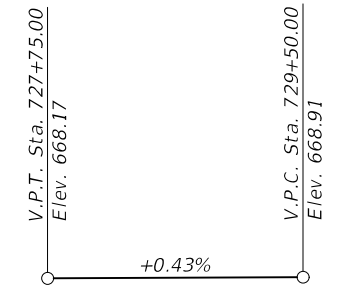
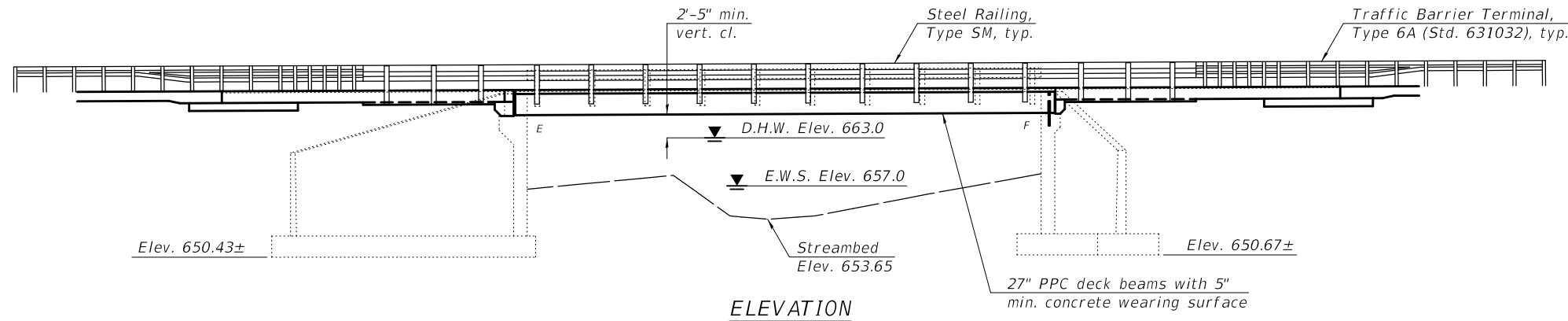
GUARDRAIL DETAILS			
S.N. 070-0036			
SCALE:	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	115BR-1	MOULTRIE	44	11
			CONTRACT NO. 74326	
		ILLINOIS	FED. AID PROJECT	

Benchmark: Chiseled square on Northwest wingwall. Station 728+74. 17' left. Elev. 667.92

Existing Structure: Structure No. 070-0036 was originally constructed in 1980 as F.A. Rte. 770, Section 115BR. The existing structure consists of a single span precast prestressed concrete deck beam superstructure supported on closed abutments with timber piles. Back-to-back of abutment length is 57'-8" and out-to-out width of deck is 33'-0". In 2009, 2 of the precast prestressed concrete deck beams were replaced as a repair contract. The existing superstructure is to be removed and replaced. Traffic to be detoured during construction.

No Salvage.



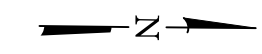
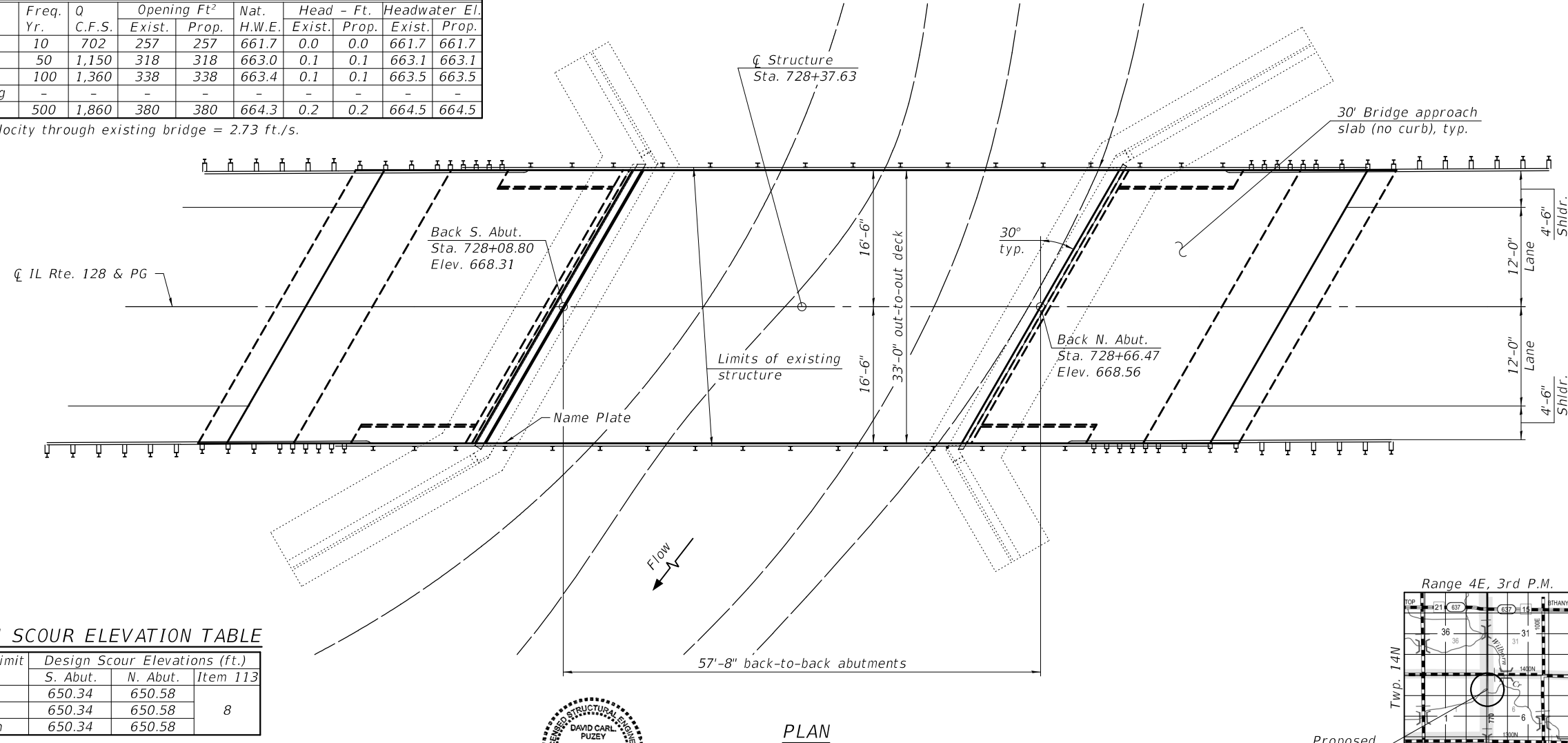
PROFILE GRADE
(Along \bar{C} IL Rte. 128)

WATERWAY INFORMATION

Drainage Area = 3.66 mi.² Existing Low Grade Elev. 667.60 @ Sta. 727+00

Flood Yr.	Freq.	Q C.F.S.	Opening Ft ²		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
10	702	257	257	661.7	0.0	0.0	661.7	661.7	
Design	50	1,150	318	318	663.0	0.1	0.1	663.1	663.1
Base	100	1,360	338	338	663.4	0.1	0.1	663.5	663.5
Overtopping	-	-	-	-	-	-	-	-	-
Max. Calc.	500	1,860	380	380	664.3	0.2	0.2	664.5	664.5

10 Year velocity through existing bridge = 2.73 ft./s.



DESIGN STRESSES
FIELD UNITS (EXISTING)
f'c = 3,500 psi
fy = 60,000 psi (reinforcement)

FIELD UNITS (PROPOSED)
f'c = 3,500 psi
f'c = 5,000 psi (concrete wearing surface)
f'c = 4,000 psi (approach slab concrete)
fy = 60,000 psi (reinforcement)

PRECAST PRESTRESSED UNITS
f'c = 6,000 psi
f'ci = 5,000 psi
fpu = 270,000 psi (1/2" \bar{O} low lax strands)
fpbt = 201,960 psi (1/2" \bar{O} low lax strands)

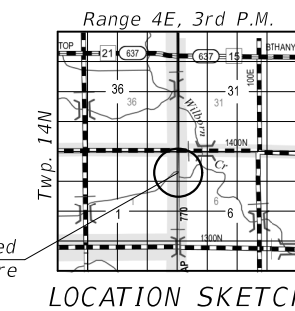
DESIGN SPECIFICATIONS
2017 AASHTO LRFD Bridge Design Specifications, 8th Edition

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

SEISMIC DATA
Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.05
Site Coefficient (S) = 1.2

DESIGN SCOUR ELEVATION TABLE

Event / Limit State	Design Scour Elevations (ft.)		Item 113
	S. Abut.	N. Abut.	
Q100	650.34	650.58	8
Q200	650.34	650.58	
Design	650.34	650.58	

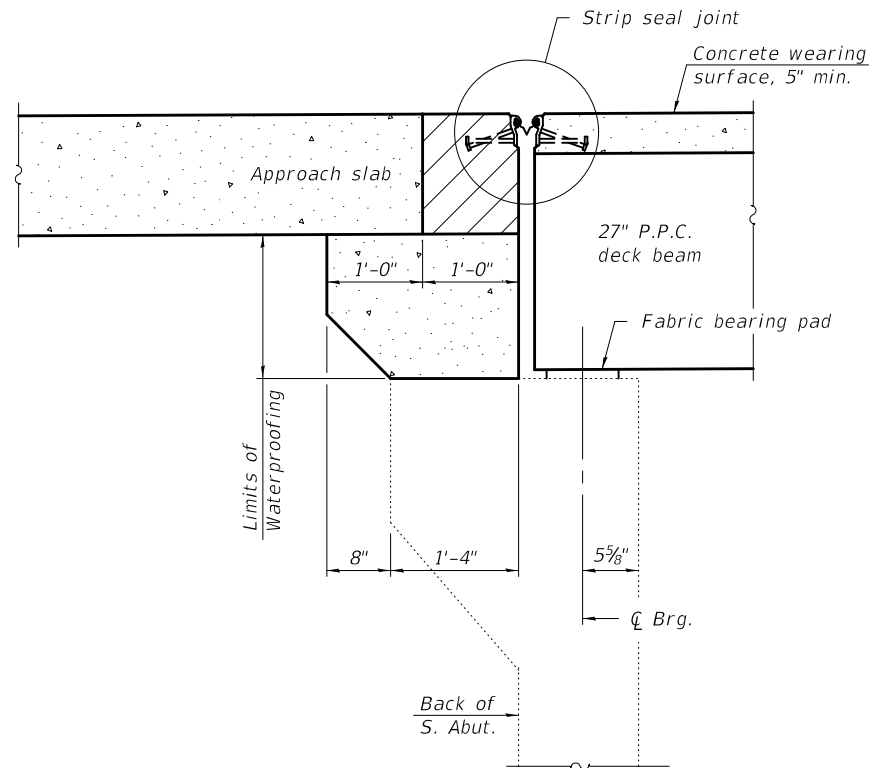


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

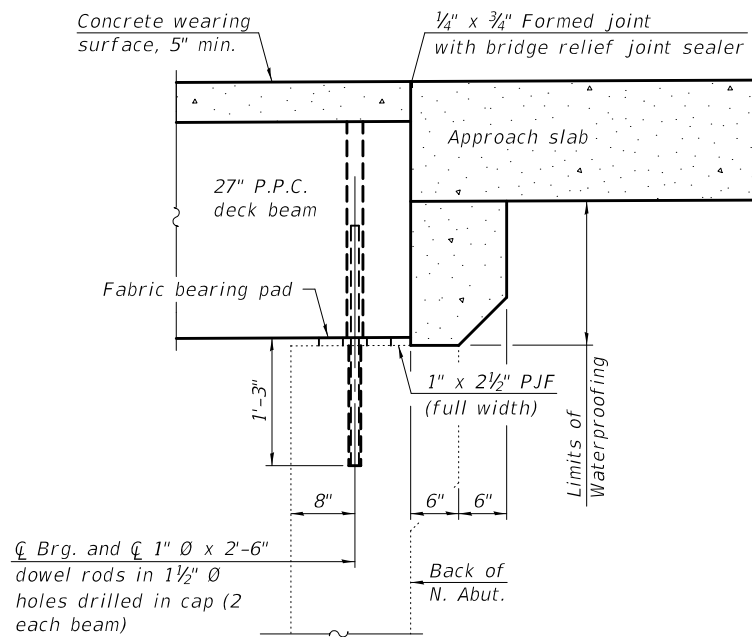
DESIGNED - DAVID H. RICHTER	EXAMINED - <i>Janet F. Smith</i>	DATE - 9/21/2020
CHECKED - RYAN P. NEGANGARD	PASSED - <i>Sh. Carl Pucey</i>	REVISIONS -
DRAWN - DENNIS A. POP	ENGINEER OF BRIDGES AND STRUCTURES	REVISIONS -
CHECKED - DHR / RPN / GRA		

F.A.P. RTE. 770	SECTION 115BR-1	COUNTY MOULTRIE	TOTAL SHEETS 44	SHEET NO. 12
CONTRACT NO. 74326				
ILLINOIS FED. AID PROJECT				

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**SECTION A-A
THRU SOUTH ABUTMENT**
(Horizontal dimensions are at Rt. L's)



**SECTION B-B
THRU NORTH ABUTMENT**
(Horizontal dimensions are at Rt. L's)

GENERAL NOTES

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.

Concrete Sealer shall be applied to the front face of backwall of the South abutment. The Contractor is advised that the existing PPC deck beams are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the conditions of the beams when developing construction procedures for removal and replacement of the superstructure.

Reinforcement bars designated (E) shall be epoxy coated. Backfill shall be placed behind the abutments after the construction of the abutment backwalls are complete and beams are installed and forming behind the abutments have been removed. See Article 502.10 of the Standard Specifications.

The back face of the new portion of the closed abutment backwalls shall be waterproofed according to Article 503.18 of the Standard Specifications.

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 General Data
- 3-4 Top of Slab Elevations
- 5-6 Top of Approach Slab Elevations
- 7 Superstructure
- 8 Superstructure Details
- 9 Preformed Joint Strip Seal
- 10-11 Bridge Approach Slab Details
- 12 Steel Railing, Type SM
- 13 27"x36" PPC Deck Beam
- 14 27"x36" PPC Deck Beam Details
- 15 South Abutment
- 16 North Abutment
- 17 Abutment Details

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Superstructures	Each	1		1
Concrete Removal	Cu. Yd.		3.4	3.4
Bridge Deck Grooving	Sq. Yd.	409		409
Concrete Structures	Cu. Yd.		32.0	32.0
Concrete Superstructure (Approach Slab)	Cu. Yd.	92.8		92.8
Protective Coat	Sq. Yd.	435		435
Reinforcement Bars, Epoxy Coated	Pound	41180	2750	43930
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	1895		1895
Concrete Wearing Surface, 5"	Sq. Yd.	211		211
Name Plates	Each	1		1
Asbestos Bearing Pad Removal	Each	18		18
Preformed Joint Strip Seal	Foot	39		39
Steel Railing, Type SM	Foot	178		178
Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq. Ft.		74.0	74.0
Concrete Sealer	Sq. Ft.		65.0	65.0

STATION 728+37.63
RE-BUILT BY
STATE OF ILLINOIS
F.A.P. RTE. 770 SEC. 115BR-1
LOADING HL-93
STRUCTURE NO. 070-0036

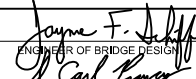

NAME PLATE

See Std. 515001

Note:
Existing Name Plate shall be cleaned and relocated next to the new Name Plate. Cost included with Name Plates.

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DESIGNED -	DAVID H. RICHTER
CHECKED -	RYAN P. NEGANGARD
DRAWN -	DENNIS A. POP
CHECKED -	DHR / RPN / GRA

EXAMINED		DATE -	September 21, 2020
PASSED		REVISED -	
	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -	

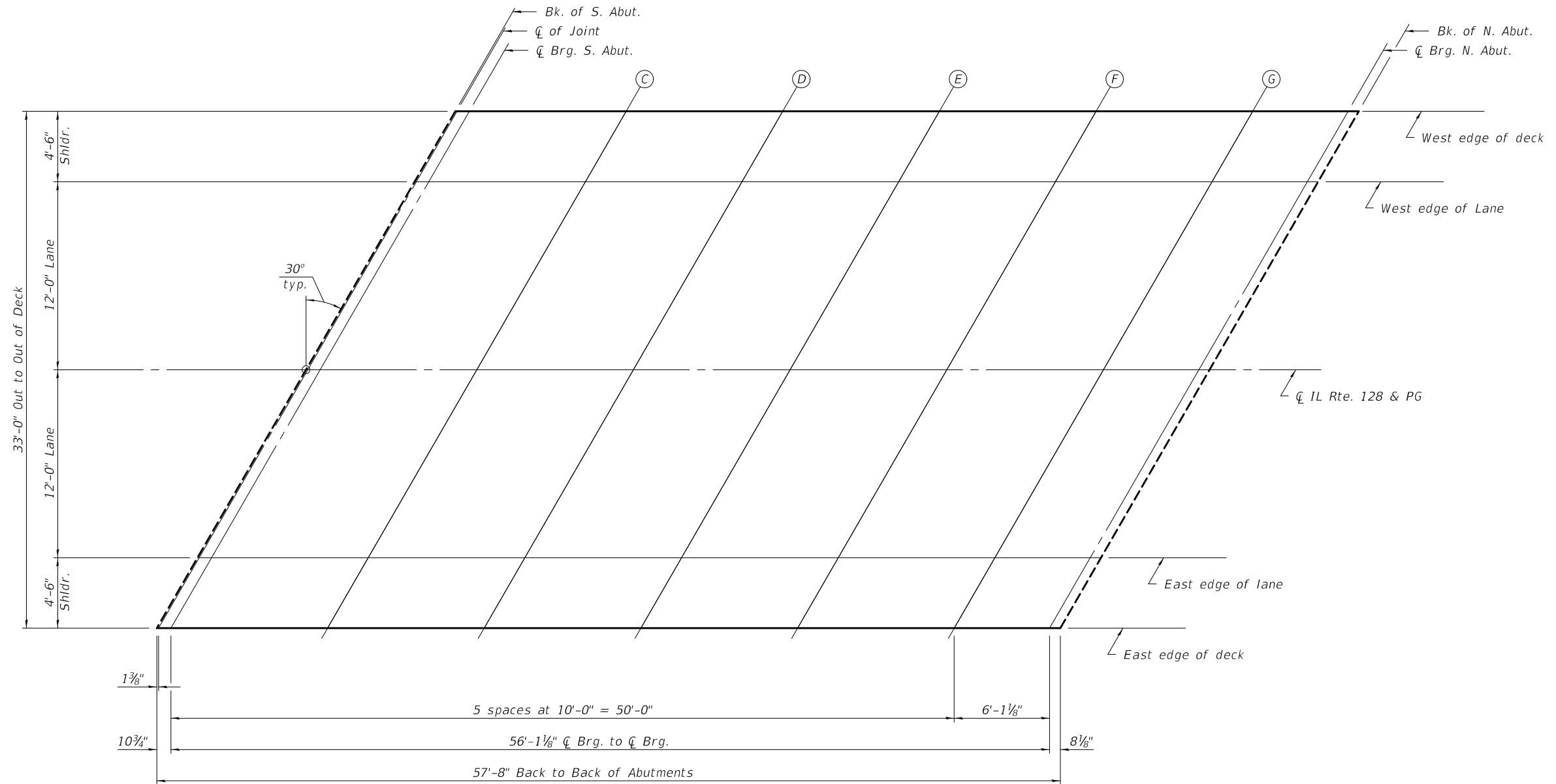
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA
STRUCTURE NO. 070-0036**

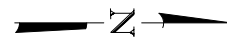
SHEET 2 OF 17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	115BR-1	MOULTRIE	44	13
CONTRACT NO. 74326				
		ILLINOIS	FED. AID PROJECT	

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PLAN



DESIGNED -	DAVID H. RICHTER
CHECKED -	RYAN P. NEANGARD
DRAWN -	DENNIS A. POP
CHECKED -	DHR / RPN / GRA

EXAMINED	<i>Jaime F. Joffe</i> ENGINEER OF BRIDGE DESIGN
PASSED	<i>Carl Kreyer</i> ENGINEER OF BRIDGES AND STRUCTURES

DATE -	September 21, 2020
REVISED -	
REVISED -	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
 STRUCTURE NO. 070-0036

SHEET 3 OF 17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	115BR-1	MOULTRIE	44	14
CONTRACT NO. 74326				
ILLINOIS FED. AID PROJECT				

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WEST EDGE OF DECK

Location	Station	Offset	Theoretical Grade Elevations
Bk. of S. Abut.	728+18.33	-16.50	668.11
┆ of Joint	728+18.44	-16.50	668.11
┆ Brg. S. Abut.	728+19.23	-16.50	668.11
C	728+29.23	-16.50	668.15
D	728+39.23	-16.50	668.19
E	728+49.23	-16.50	668.24
F	728+59.23	-16.50	668.28
G	728+69.23	-16.50	668.32
┆ Brg. N. Abut.	728+75.32	-16.50	668.35
Bk. of N. Abut.	728+75.99	-16.50	668.35

WEST EDGE OF LANE

Location	Station	Offset	Theoretical Grade Elevations
Bk. of S. Abut.	728+15.73	-12.00	668.16
┆ of Joint	728+15.84	-12.00	668.16
┆ Brg. S. Abut.	728+16.63	-12.00	668.17
C	728+26.63	-12.00	668.21
D	728+36.63	-12.00	668.25
E	728+46.63	-12.00	668.29
F	728+56.63	-12.00	668.34
G	728+66.63	-12.00	668.38
┆ Brg. N. Abut.	728+72.72	-12.00	668.40
Bk. of N. Abut.	728+73.39	-12.00	668.41

┆ RDWY. & PG

Location	Station	Offset	Theoretical Grade Elevations
Bk. of S. Abut.	728+08.80	0.00	668.31
┆ of Joint	728+08.91	0.00	668.31
┆ Brg. S. Abut.	728+09.70	0.00	668.32
C	728+19.70	0.00	668.36
D	728+29.70	0.00	668.40
E	728+39.70	0.00	668.44
F	728+49.70	0.00	668.49
G	728+59.70	0.00	668.53
┆ Brg. N. Abut.	728+65.79	0.00	668.55
Bk. of N. Abut.	728+66.47	0.00	668.56

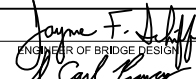

EAST EDGE OF LANE

Location	Station	Offset	Theoretical Grade Elevations
Bk. of S. Abut.	728+01.87	12.00	668.10
┆ of Joint	728+01.99	12.00	668.10
┆ Brg. S. Abut.	728+02.77	12.00	668.11
C	728+12.77	12.00	668.15
D	728+22.77	12.00	668.19
E	728+32.77	12.00	668.23
F	728+42.77	12.00	668.28
G	728+52.77	12.00	668.32
┆ Brg. N. Abut.	728+58.86	12.00	668.34
Bk. of N. Abut.	728+59.54	12.00	668.35

EAST EDGE OF DECK

Location	Station	Offset	Theoretical Grade Elevations
Bk. of S. Abut.	727+99.27	16.50	668.03
┆ of Joint	727+99.39	16.50	668.03
┆ Brg. S. Abut.	728+00.18	16.50	668.03
C	728+10.18	16.50	668.07
D	728+20.18	16.50	668.11
E	728+30.18	16.50	668.16
F	728+40.18	16.50	668.20
G	728+50.18	16.50	668.24
┆ Brg. N. Abut.	728+56.27	16.50	668.27
Bk. of N. Abut.	728+56.94	16.50	668.27

DESIGNED - DAVID H. RICHTER	EXAMINED
CHECKED - RYAN P. NEGANGARD	PASSED
DRAWN - DENNIS A. POP	
CHECKED - DHR / RPN / GRA	


 ENGINEER OF BRIDGE DESIGN

 ENGINEER OF BRIDGES AND STRUCTURES

DATE - September 21, 2020	REVISED -
	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS
 STRUCTURE NO. 070-0036**

SHEET 4 OF 17 SHEETS

F.A.P. RTE. 770	SECTION 115BR-1	COUNTY MOULTRIE	TOTAL SHEETS 44	SHEET NO. 15
CONTRACT NO. 74326				
ILLINOIS FED. AID PROJECT				

WEST EDGE OF SLAB

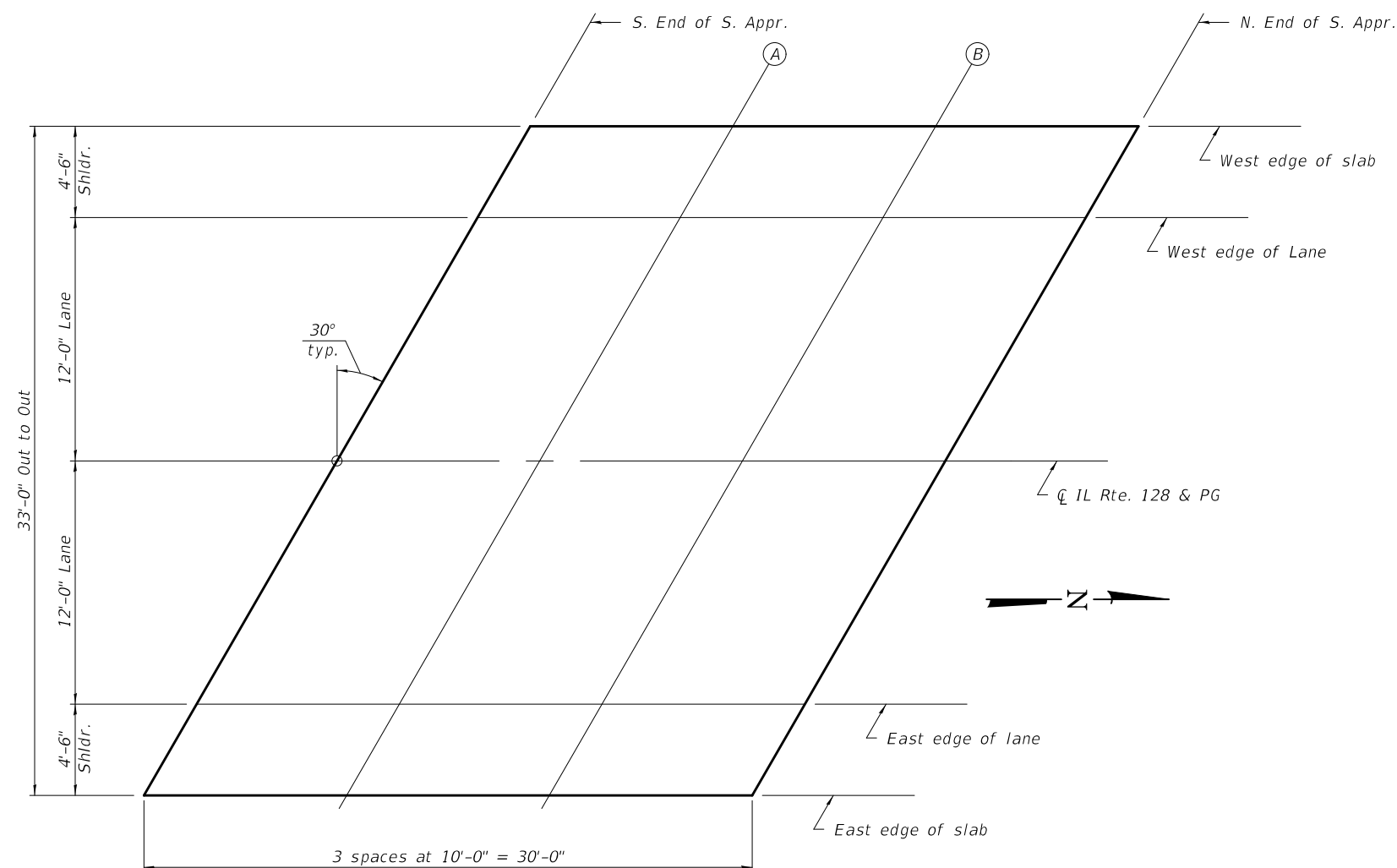
Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr. Slab	727+87.18	-16.50	667.97
A	727+97.18	-16.50	668.02
B	728+07.18	-16.50	668.06
N. End of S. Appr. Slab	728+17.18	-16.50	668.10

WEST EDGE OF LANE

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr. Slab	727+84.58	-12.00	668.03
A	727+94.58	-12.00	668.07
B	728+04.58	-12.00	668.12
N. End of S. Appr. Slab	728+14.58	-12.00	668.16

CL RDWY. & PG

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr. Slab	727+77.65	0.00	668.18
A	727+87.65	0.00	668.22
B	727+97.65	0.00	668.27
N. End of S. Appr. Slab	728+07.65	0.00	668.31



PLAN

EAST EDGE OF LANE

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr. Slab	727+70.72	12.00	667.97
A	727+80.72	12.00	668.01
B	727+90.72	12.00	668.06
N. End of S. Appr. Slab	728+00.72	12.00	668.10

EAST EDGE OF SLAB

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr. Slab	727+68.12	16.50	667.89
A	727+78.12	16.50	667.94
B	727+88.12	16.50	667.98
N. End of S. Appr. Slab	727+98.12	16.50	668.02

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DESIGNED - DAVID H. RICHTER	EXAMINED - <i>Joanne F. J. [Signature]</i>	DATE - September 21, 2020
CHECKED - RYAN P. NEGANGARD	PASSED - <i>Carl [Signature]</i>	REVISOR -
DRAWN - DENNIS A. POP	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR -
CHECKED - DHR / RPN / GRA		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF SOUTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 070-0036**

F.A.P. RTE. 770	SECTION 115BR-1	COUNTY MOULTRIE	TOTAL SHEETS 44	SHEET NO. 16
CONTRACT NO. 74326				
ILLINOIS FED. AID PROJECT				

SHEET 5 OF 17 SHEETS

WEST EDGE OF SLAB

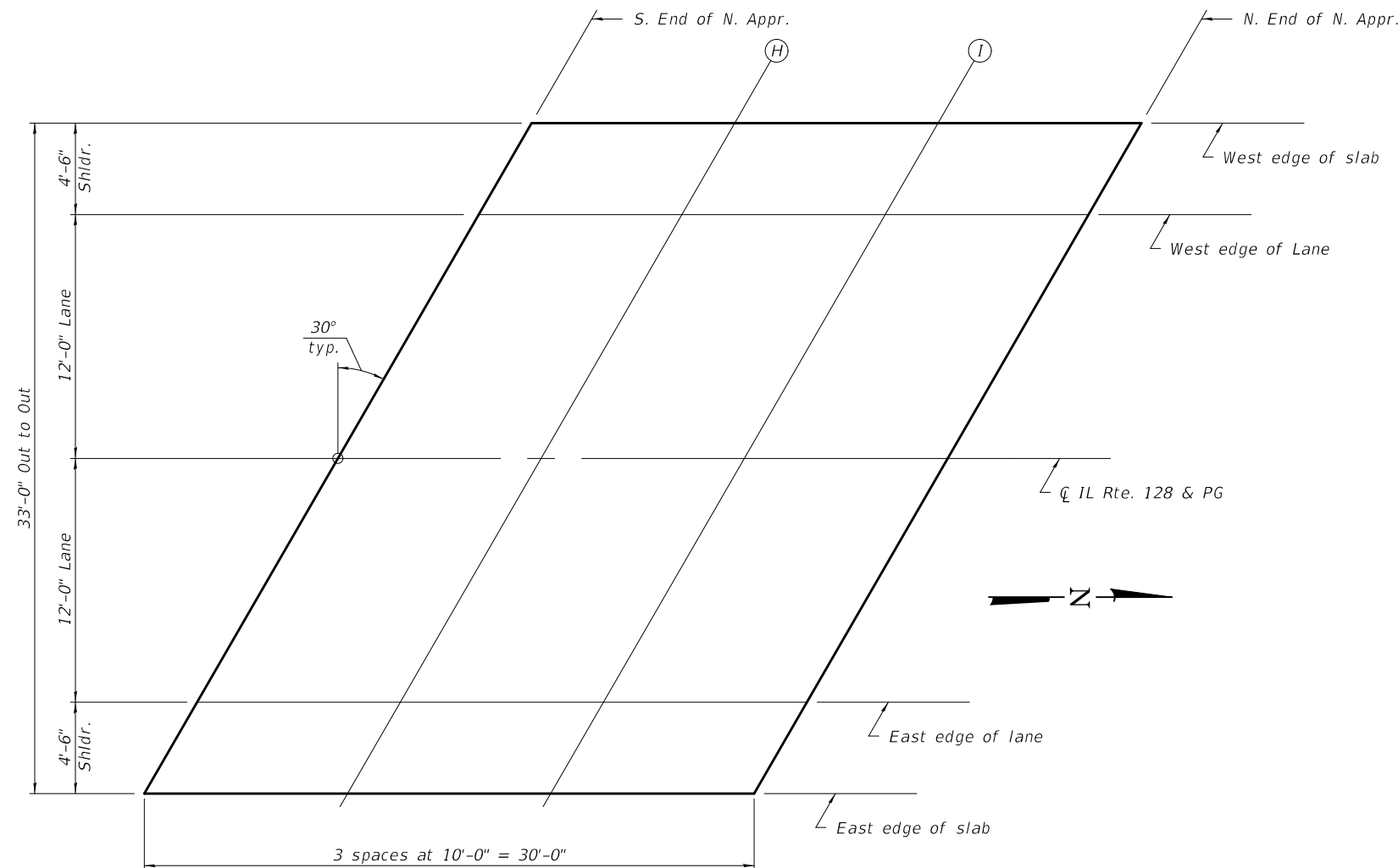
Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Appr. Slab	728+76.00	-16.50	668.35
H	728+86.00	-16.50	668.39
I	728+96.00	-16.50	668.43
N. End of N. Appr. Slab	729+06.00	-16.50	668.48

WEST EDGE OF LANE

Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Appr. Slab	728+73.40	-12.00	668.41
H	728+83.40	-12.00	668.45
I	728+93.40	-12.00	668.49
N. End of N. Appr. Slab	729+03.40	-12.00	668.53

CL RDWY. & PG

Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Appr. Slab	728+66.47	0.00	668.56
H	728+76.47	0.00	668.60
I	728+86.47	0.00	668.64
N. End of N. Appr. Slab	728+96.47	0.00	668.68



PLAN

EAST EDGE OF LANE

Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Appr. Slab	728+59.54	12.00	668.35
H	728+69.54	12.00	668.39
I	728+79.54	12.00	668.43
N. End of N. Appr. Slab	728+89.54	12.00	668.47

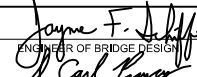
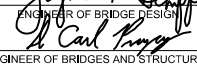
EAST EDGE OF SLAB

Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Appr. Slab	728+56.94	16.50	668.27
H	728+66.94	16.50	668.31
I	728+76.94	16.50	668.35
N. End of N. Appr. Slab	728+86.94	16.50	668.40

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DESIGNED - DAVID H. RICHTER	EXAMINED
CHECKED - RYAN P. NEGANGARD	PASSED
DRAWN - DENNIS A. POP	
CHECKED - DHR / RPN / GRA	

DATE - September 21, 2020


 ENGINEER OF BRIDGE DESIGN

 ENGINEER OF BRIDGES AND STRUCTURES

REVISIONS	
REVISIONS	

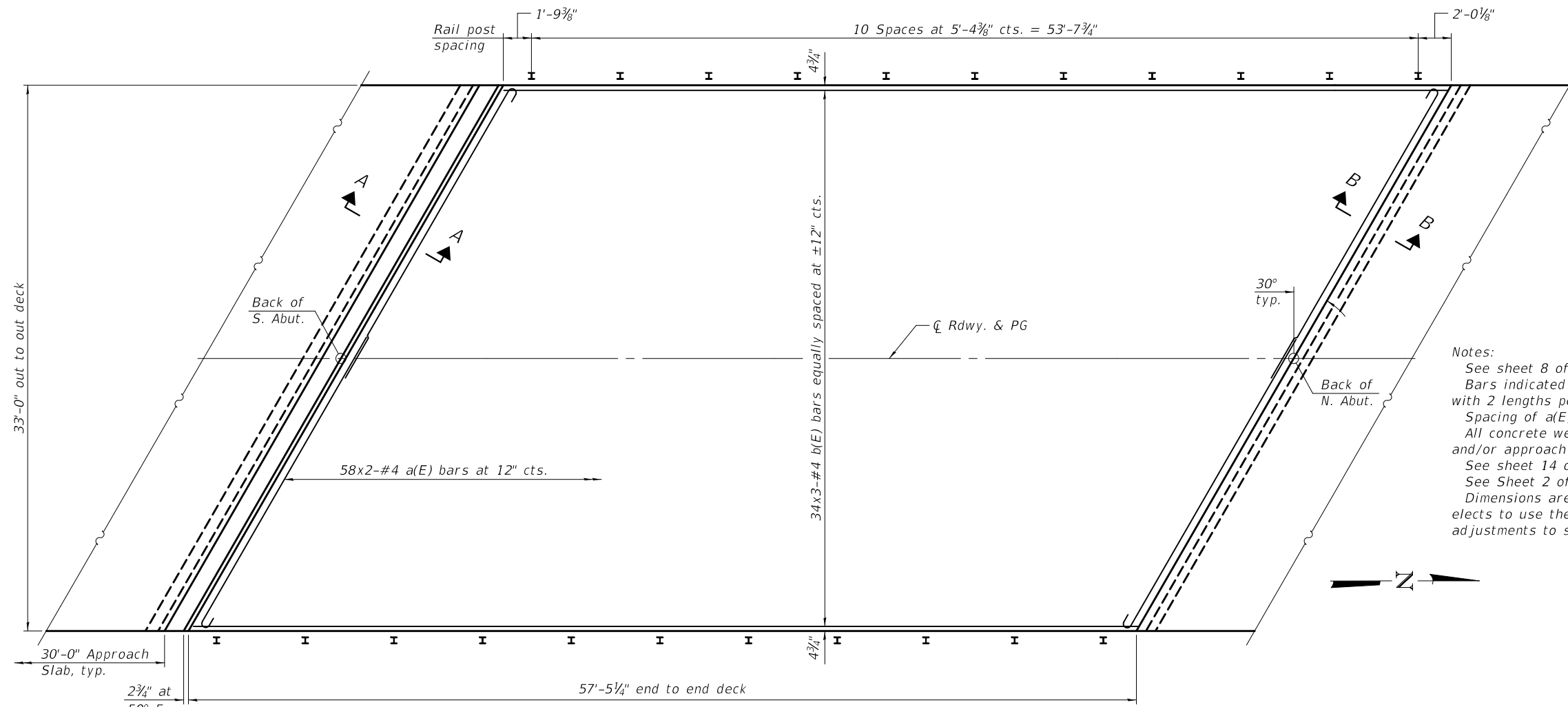
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF NORTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 070-0036

SHEET 6 OF 17 SHEETS

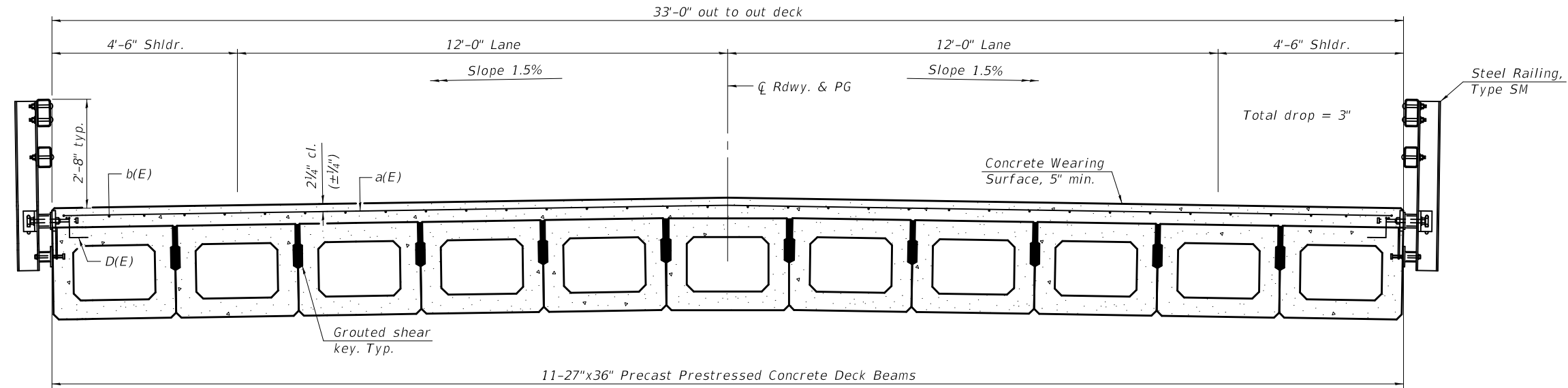
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CONTRACT NO. 74326				
ILLINOIS FED. AID PROJECT				

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PLAN

MINIMUM BAR LAP
 #4 bar = 2'-2"



CROSS SECTION
 (Looking North)

DESIGNED - DAVID H. RICHTER	EXAMINED	DATE - September 21, 2020
CHECKED - RYAN P. NEGANGARD	PASSED	REVISOR -
DRAWN - DENNIS A. POP		REVISOR -
CHECKED - DHR / RPN / GRA		

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

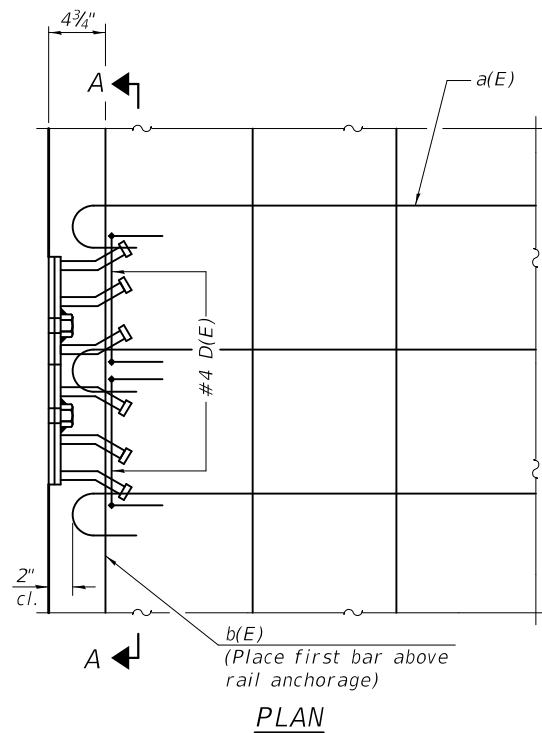
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
 STRUCTURE NO. 070-0036

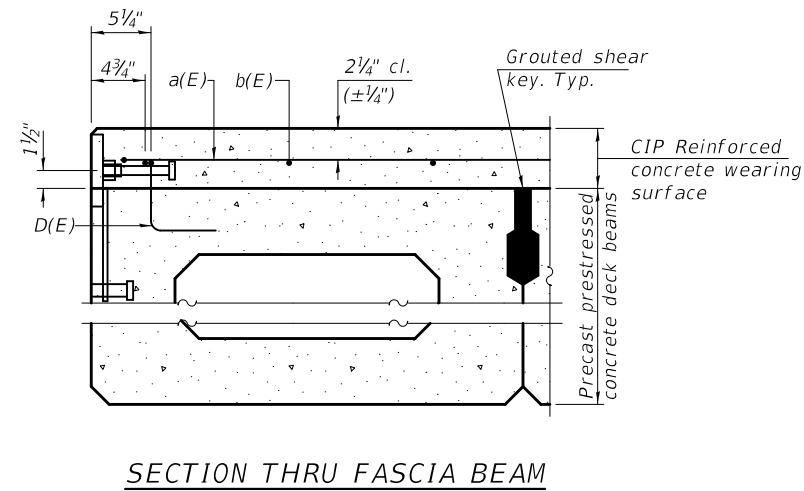
SHEET 7 OF 17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	115BR-1	MOULTRIE	44	18
CONTRACT NO. 74326				
ILLINOIS FED. AID PROJECT				

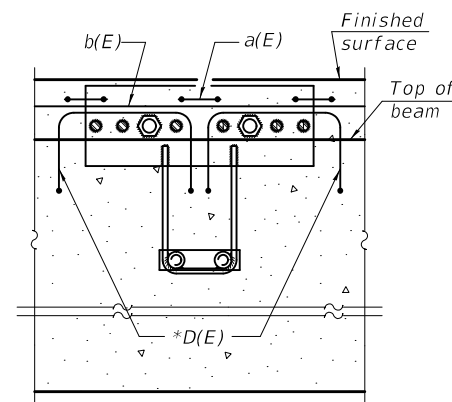
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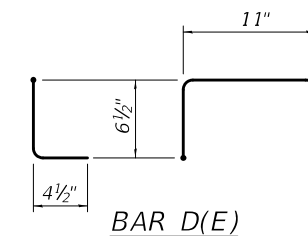
Notes:
 Formwork necessary for the wearing surface may be secured utilizing the bottom rail anchorage inserts and/or additional inserts cast into the beam.



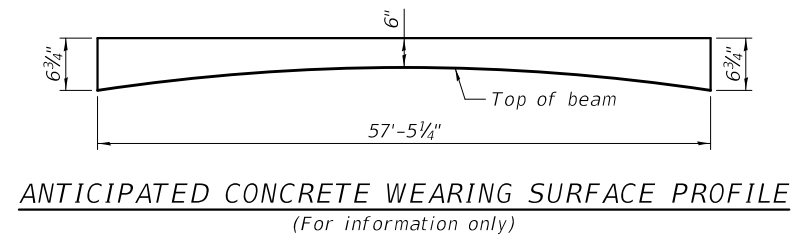
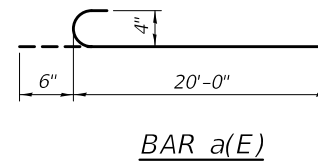
SECTION THRU FASCIA BEAM



SECTION A-A



* Place 2-#4 D(E) bars in beam at each post location as shown. D(E) bar included in cost of beam.



**SUPERSTRUCTURE
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	116	#4	20'-6"	
b(E)	102	#4	20'-7"	
Reinforcement Bars, Epoxy Coated			Pound	3000
Concrete Wearing Surface, 5"			Sq. Yd.	211

Bars indicated thus 1x3-#4 etc. indicates 1 line of bars with 3 lengths per line.

SDF-DB1742-CWS-R34 1-1-2020

DESIGNED - DAVID H. RICHTER
 CHECKED - RYAN P. NEGANGARD
 DRAWN - DENNIS A. POP
 CHECKED - DHR / RPN / GRA

EXAMINED
 PASSED

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

DATE - September 21, 2020

REVISED -
 REVISED -

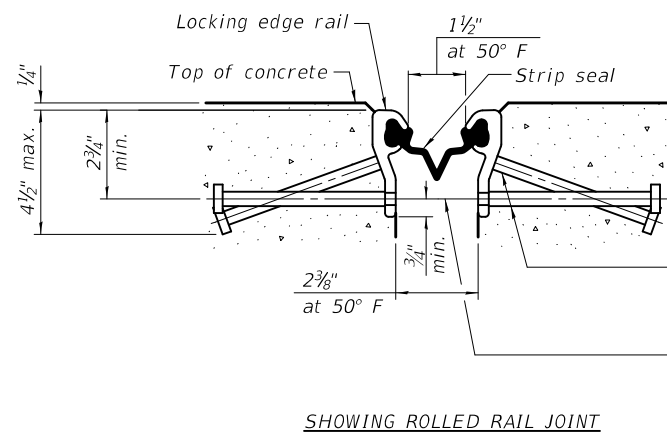
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
 STRUCTURE NO. 070-0036

SHEET 8 OF 17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	115BR-1	MOULTRIE	44	19
CONTRACT NO. 74326				
ILLINOIS FED. AID PROJECT				

MODEL: 0700036-74326-009
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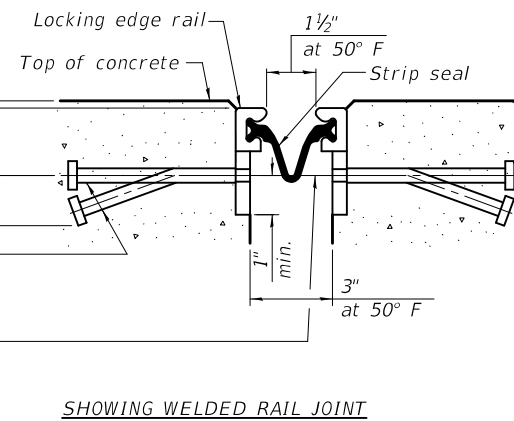


* $\frac{3}{8}$ " ϕ x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)
 $\frac{3}{8}$ " ϕ threaded rods in $\frac{7}{16}$ " ϕ holes at ± 4 "-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

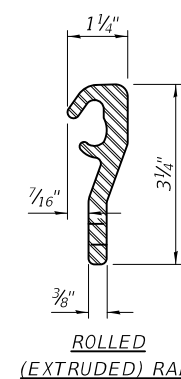
SHOWING ROLLED RAIL JOINT

SECTION A-A

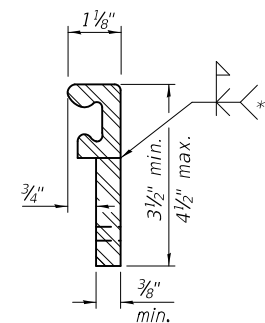
* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



SHOWING WELDED RAIL JOINT



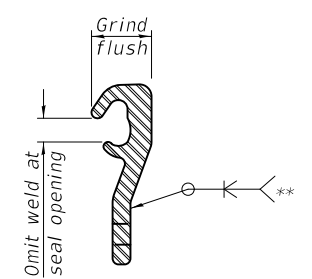
ROLLED (EXTRUDED) RAIL



WELDED RAIL

LOCKING EDGE RAILS

** Back gouge not required if complete joint penetration is verified by mock-up.



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	39

DESIGNED - DAVID H. RICHTER	EXAMINED
CHECKED - RYAN P. NEGANGARD	PASSED
DRAWN - DENNIS A. POP	
CHECKED - DHR /RPN /GRA	

Signature: *Joanne F. Joffe*
 ENGINEER OF BRIDGE DESIGN
 Signature: *Carl Kroyer*
 ENGINEER OF BRIDGES AND STRUCTURES

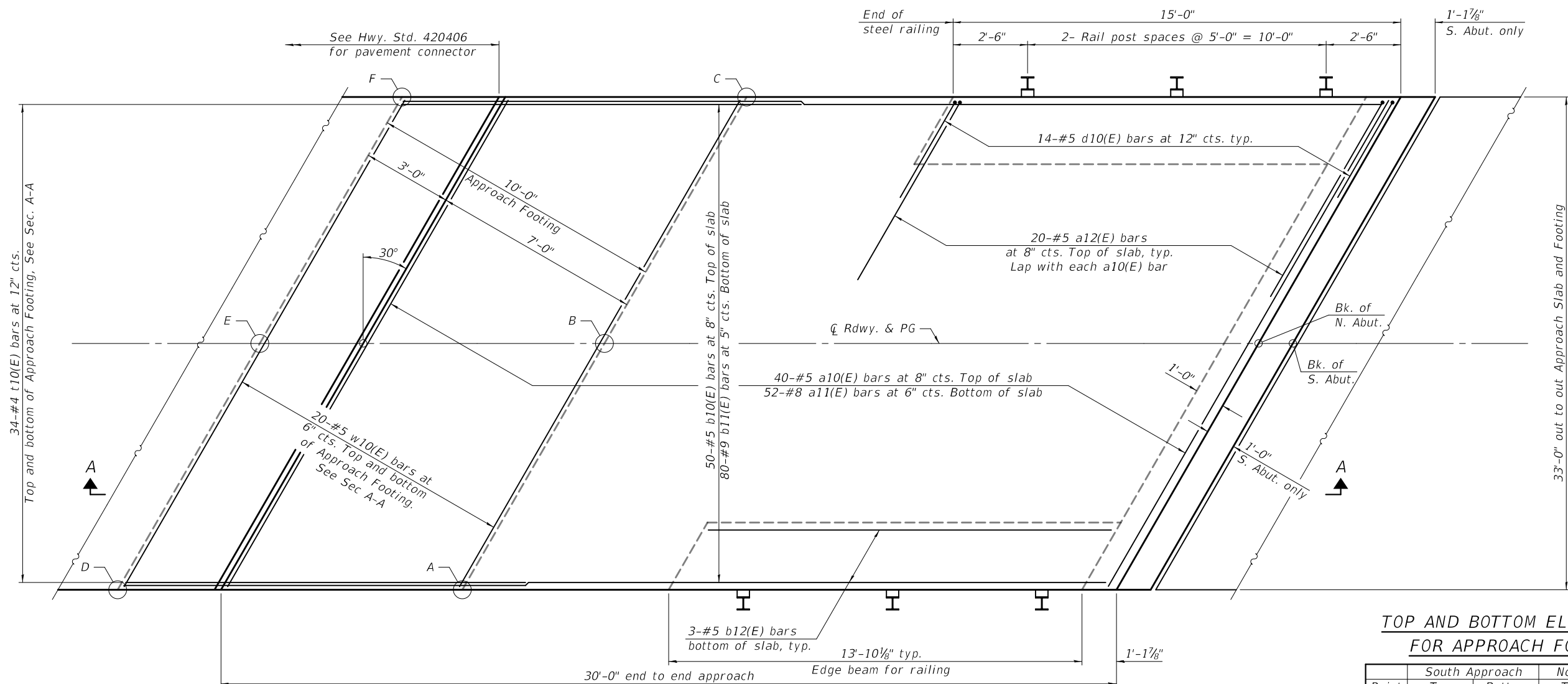
DATE - September 21, 2020
REVISED -
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STATE OF ILLINOIS
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PREFORMED JOINT STRIP SEAL
 STRUCTURE NO. 070-0036

SHEET 9 OF 17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	115BR-1	MOULTRIE	44	20
CONTRACT NO. 74326				
ILLINOIS FED. AID PROJECT				

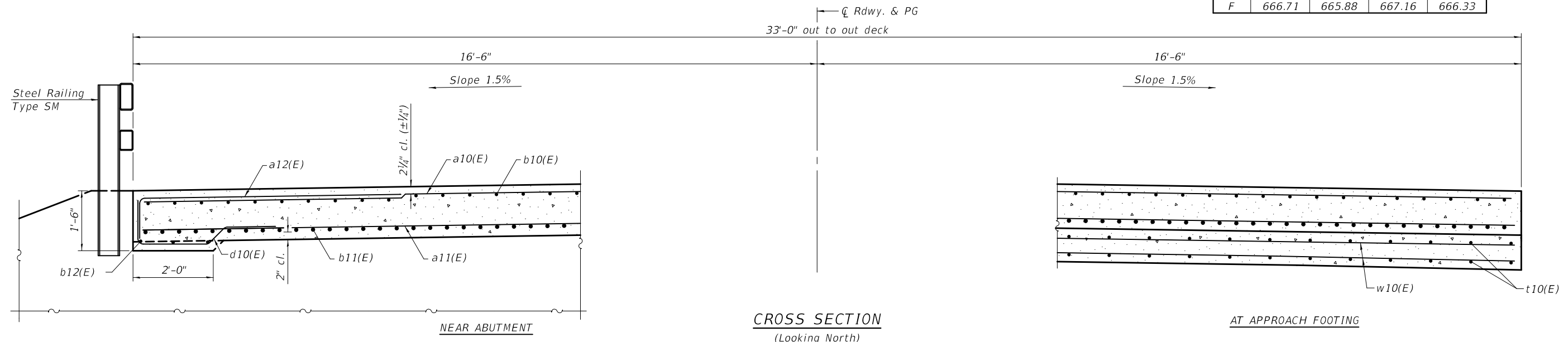
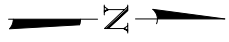


TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

Point	South Approach		North Approach	
	Top	Bottom	Top	Bottom
A	666.68	665.84	667.19	666.36
B	666.97	666.13	667.40	666.57
C	666.76	665.92	667.11	666.28
D	666.63	665.80	667.24	666.41
E	666.92	666.08	667.45	666.61
F	666.71	665.88	667.16	666.33

Notes:
See sheet 17 of 17 for Abutment Details.

PLAN
(S. Appr. shown, N. Appr. similar by rotation, except as noted)



CROSS SECTION
(Looking North)

AT APPROACH FOOTING

(Sheet 1 of 2)

MODEL: 0700036-74326-010
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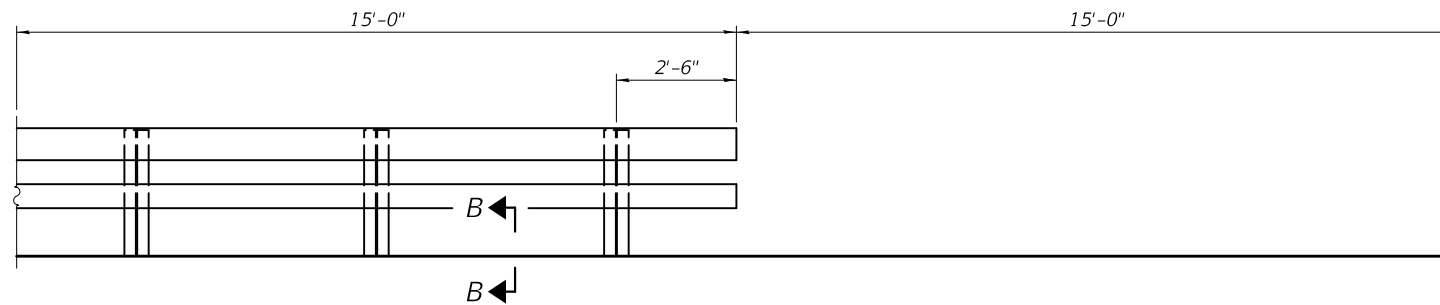
DESIGNED - DAVID H. RICHTER	EXAMINED - <i>Joanne F. J...</i>	DATE - September 21, 2020
CHECKED - RYAN P. NEANGARD	PASSED - <i>Carl...</i>	REVISER -
DRAWN - DENNIS A. POP	ENGINEER OF BRIDGES AND STRUCTURES	REVISER -
CHECKED - DHR /RPN /GRA		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 070-0036

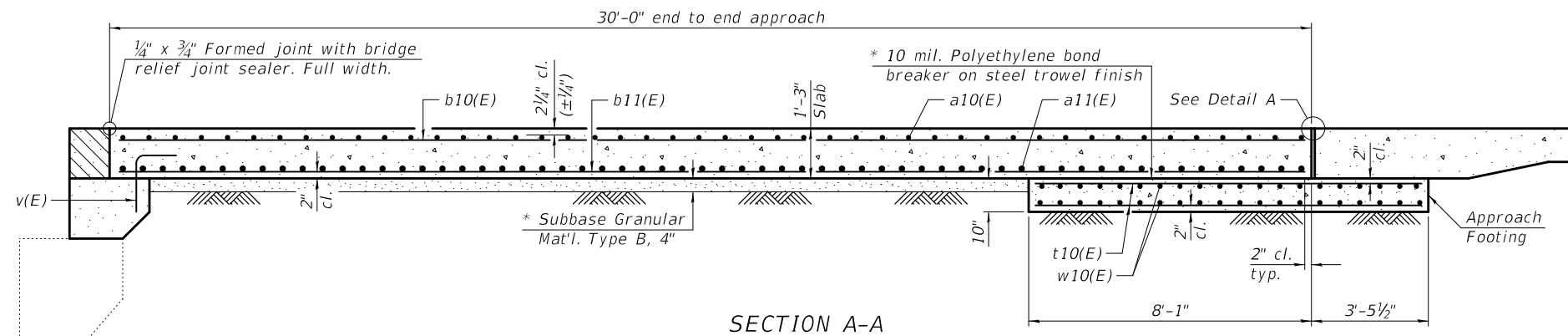
SHEET 10 OF 17 SHEETS

F.A.P. RTE. 770	SECTION 115BR-1	COUNTY MOULTRIE	TOTAL SHEETS 44	SHEET NO. 21
CONTRACT NO. 74326				
ILLINOIS FED. AID PROJECT				

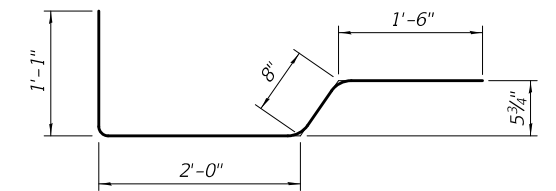


INSIDE ELEVATION OF RAILING

Notes:
 Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
 Approach footing concrete shall be paid for as Concrete Structures.
 The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.
 Cost of excavation for approach footing and abutment corbel included with Concrete Structures.
 For railing details, see sheet 12 of 17.

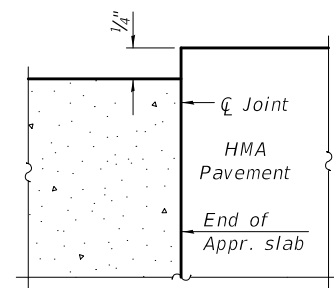


SECTION A-A

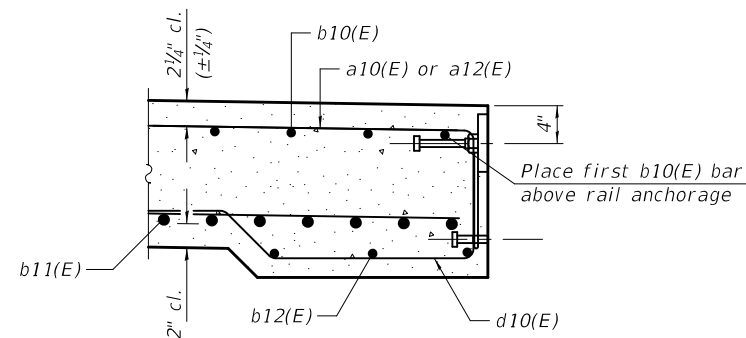


BAR d10(E)

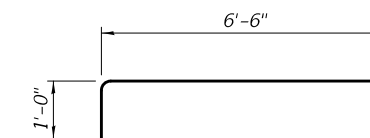
(Showing South abutment, North abutment similar)



**FLEXIBLE PAVEMENT
DETAIL A**



SECTION B-B



BAR a12(E)

**TWO APPROACHES
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a10(E)	80	#5	37'-10"	—
a11(E)	104	#8	37'-10"	—
a12(E)	80	#5	7'-6"	—
b10(E)	100	#5	29'-8"	—
b11(E)	160	#9	29'-8"	—
b12(E)	12	#5	13'-7"	—
d10(E)	56	#5	5'-3"	⌋
t10(E)	136	#4	11'-3"	—
w10(E)	80	#5	37'-10"	—
Concrete Superstructure (Approach Slab)			Cu. Yd.	92.8
Concrete Structures			Cu. Yd.	23.5
Reinforced Bars, Epoxy Coated			Pound	38180

* Cost included with Concrete Superstructure (Approach Slab).

(Sheet 2 of 2)

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DESIGNED - DAVID H. RICHTER
 CHECKED - RYAN P. NEGANGARD
 DRAWN - DENNIS A. POP
 CHECKED - DHR /RPN /GRA

EXAMINED
 PASSED
 ENGINEER OF BRIDGES AND STRUCTURES

DATE - September 21, 2020
 REVISED -
 REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 070-0036**

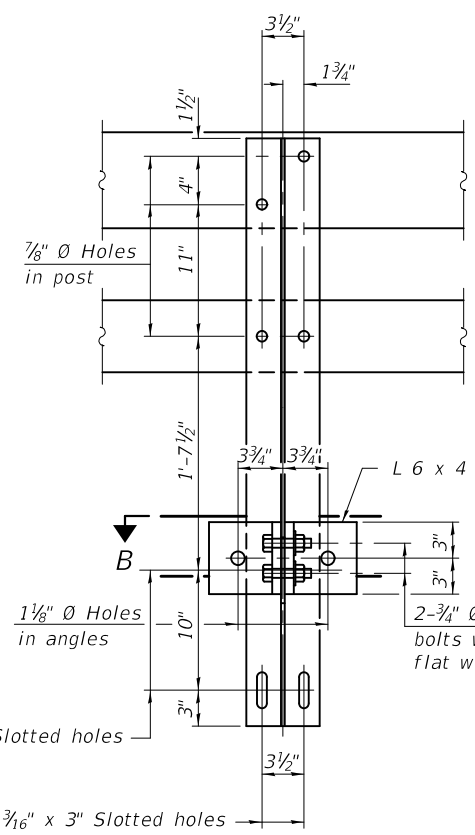
SHEET 11 OF 17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	115BR-1	MOULTRIE	44	22
CONTRACT NO. 74326				

ILLINOIS FED. AID PROJECT

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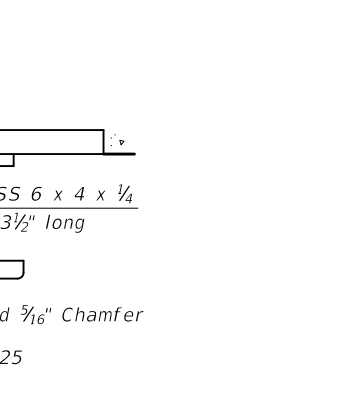


4- $\frac{3}{4}$ " \varnothing x 6" Round Head Bolts with locknut & flat washer.
 $\frac{7}{8}$ " \varnothing holes in hollow structural section may be drilled in the field.

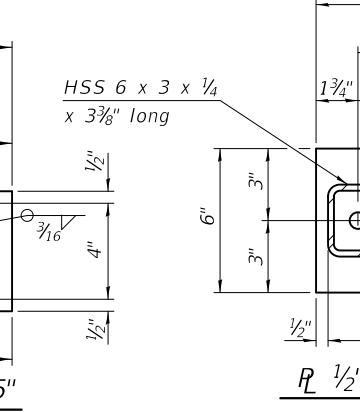
2- $\frac{3}{4}$ " \varnothing x $\frac{3}{4}$ " H.S. bolts with hex nut & flat washers
 2- 1" \varnothing x 7 $\frac{3}{4}$ " AASHTO M-164 anchor bolts with flat washer and lockwasher
 2- $\frac{5}{8}$ " \varnothing x 5 $\frac{1}{2}$ " cap screws with flat washer

1 $\frac{1}{8}$ " \varnothing Holes in angles
 1 $\frac{1}{8}$ " \varnothing Holes in post
 1 $\frac{1}{8}$ " \varnothing Holes in angles
 1 $\frac{1}{8}$ " \varnothing Holes in post
 1 $\frac{1}{8}$ " \varnothing Holes in angles and plate
 1 $\frac{1}{8}$ " \varnothing Holes in post

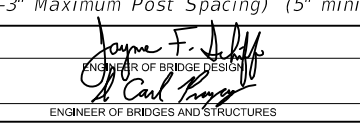
SECTION A-A



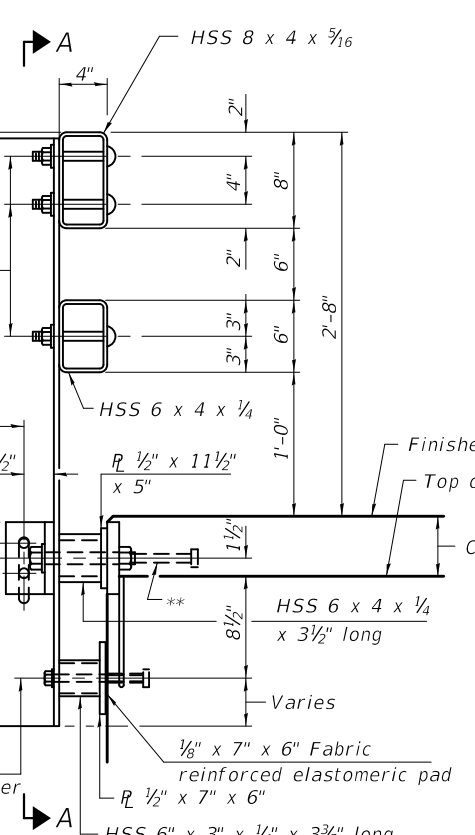
SECTION B-B



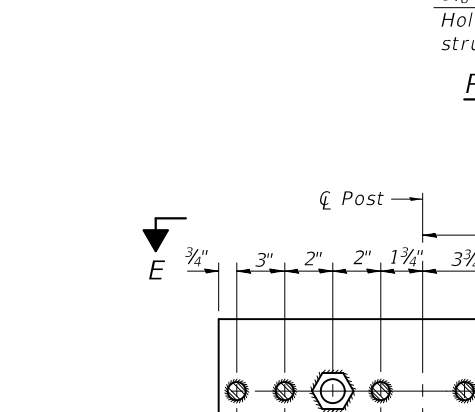
SECTION C-C



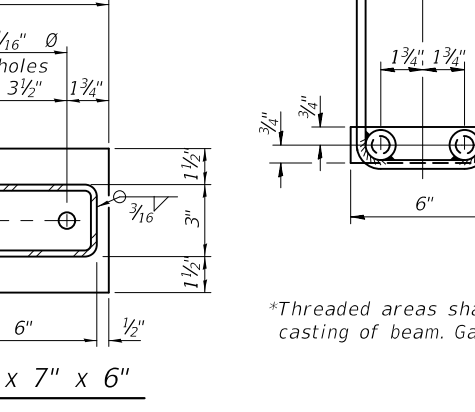
SECTION D-D



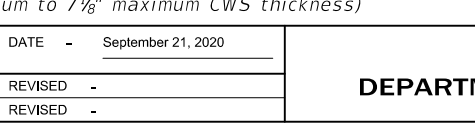
SECTION AT RAIL POST



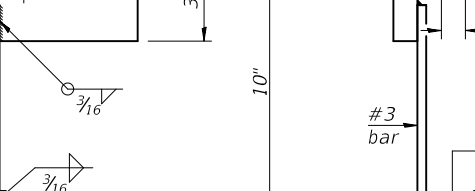
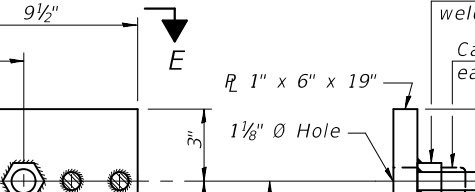
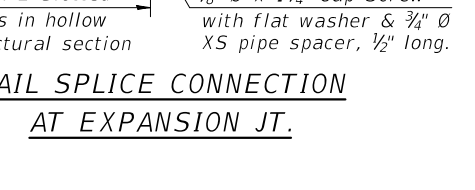
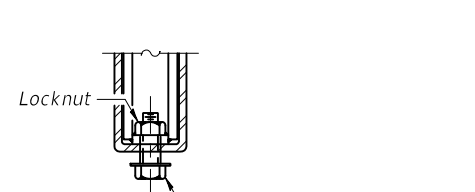
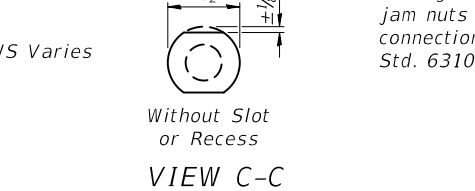
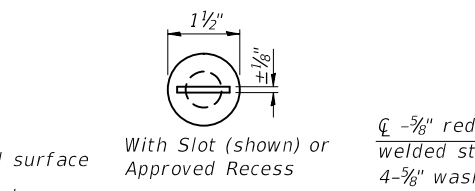
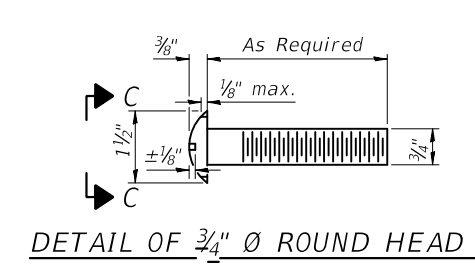
SECTION AT RAIL SPLICE



SECTION AT RAIL SPLICE



SECTION AT RAIL SPLICE



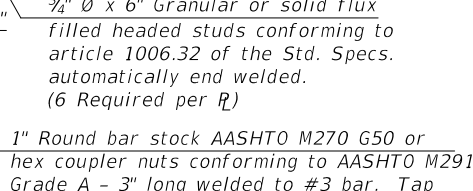
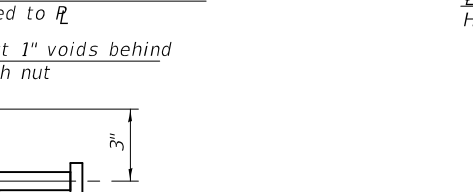
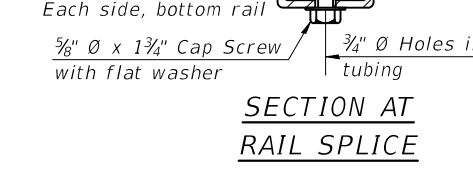
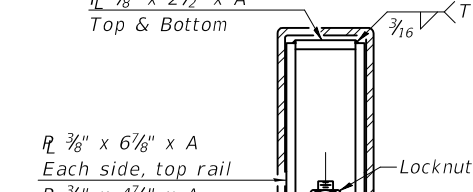
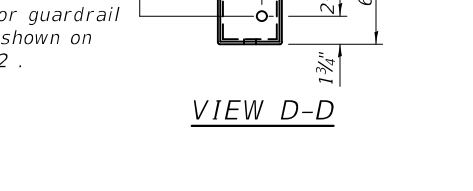
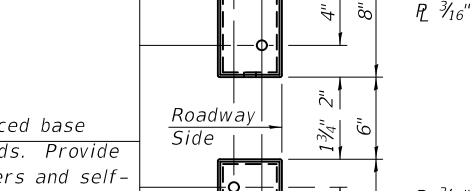
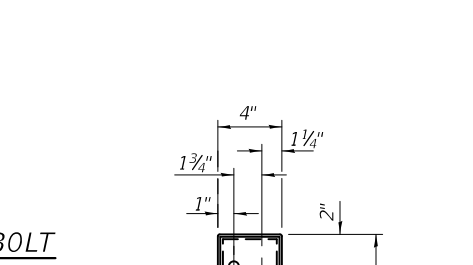
Notes:

- For multi-span bridges, sufficient $\frac{1}{4}$ " x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type SM.
- Steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.
- ** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.

T	D	A	B	C	E
$\leq 4"$	2 $\frac{1}{2}$ "	1'-8"	2"	4"	2 $\frac{1}{2}$ "
$> 4" \leq 6\frac{1}{2}"$	3 $\frac{3}{4}$ "	2'-0"	2 $\frac{1}{2}$ "	5 $\frac{1}{2}$ "	3 $\frac{1}{2}$ "
$> 6\frac{1}{2}" \leq 9"$	5"	2'-4"	3 $\frac{1}{2}$ "	6 $\frac{1}{2}$ "	9"
$> 9" \leq 13"$	7"	2'-10"	4 $\frac{1}{2}$ "	8 $\frac{1}{2}$ "	11"
Rail Splice	$\frac{1}{4}$ "	1'-8"	2"	4"	—

T = Total movement at expansion joint as shown on the design plans.

Item	Unit	Quantity
Steel Railing, Type SM	Foot	178



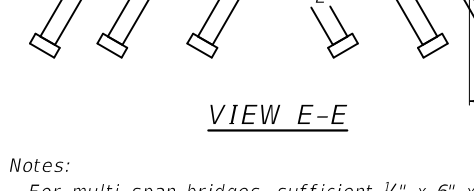
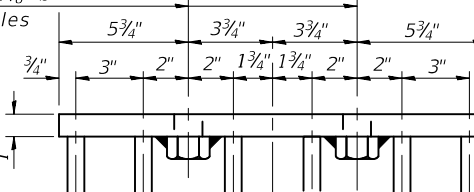
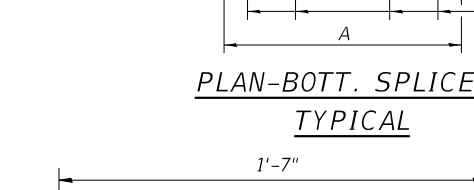
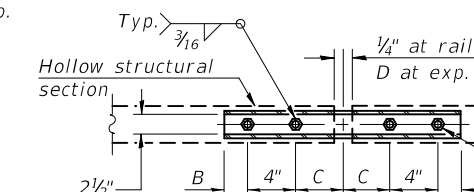
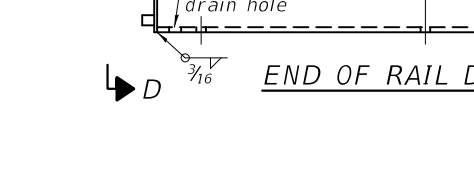
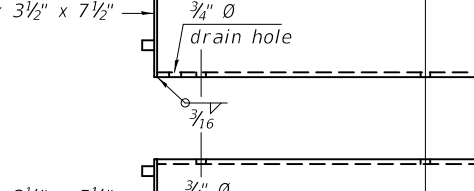
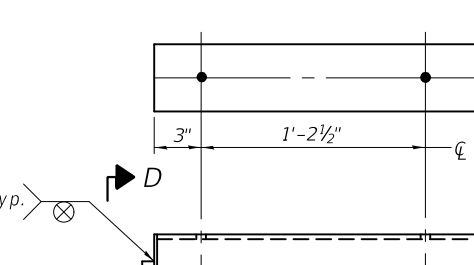
Notes:

- For multi-span bridges, sufficient $\frac{1}{4}$ " x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type SM.
- Steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.
- ** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.

Item	Unit	Quantity
Steel Railing, Type SM	Foot	178

Item	Unit	Quantity
Steel Railing, Type SM	Foot	178

Item	Unit	Quantity
Steel Railing, Type SM	Foot	178



Notes:

- For multi-span bridges, sufficient $\frac{1}{4}$ " x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type SM.
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Item	Unit	Quantity
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Item	Unit	Quantity
Steel Railing, Type SM	Foot	178

Item	Unit	Quantity
Steel Railing, Type SM	Foot	178

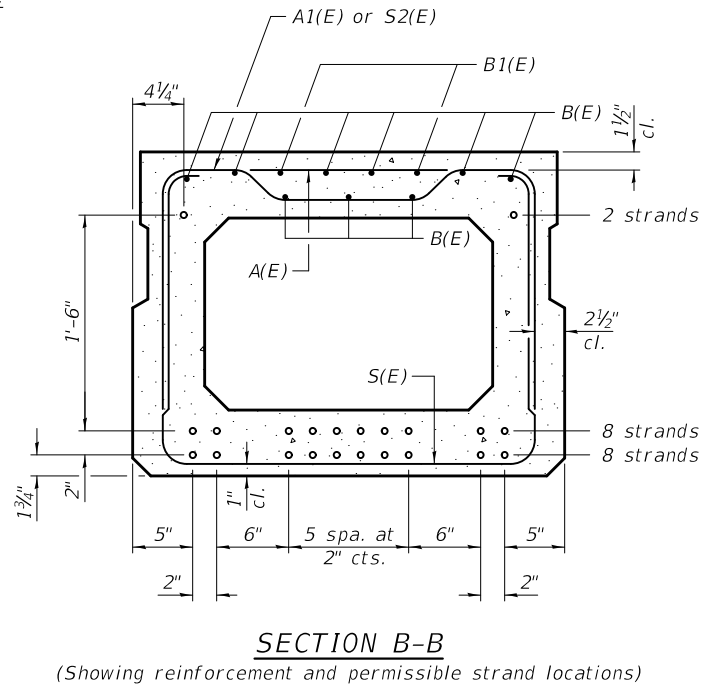
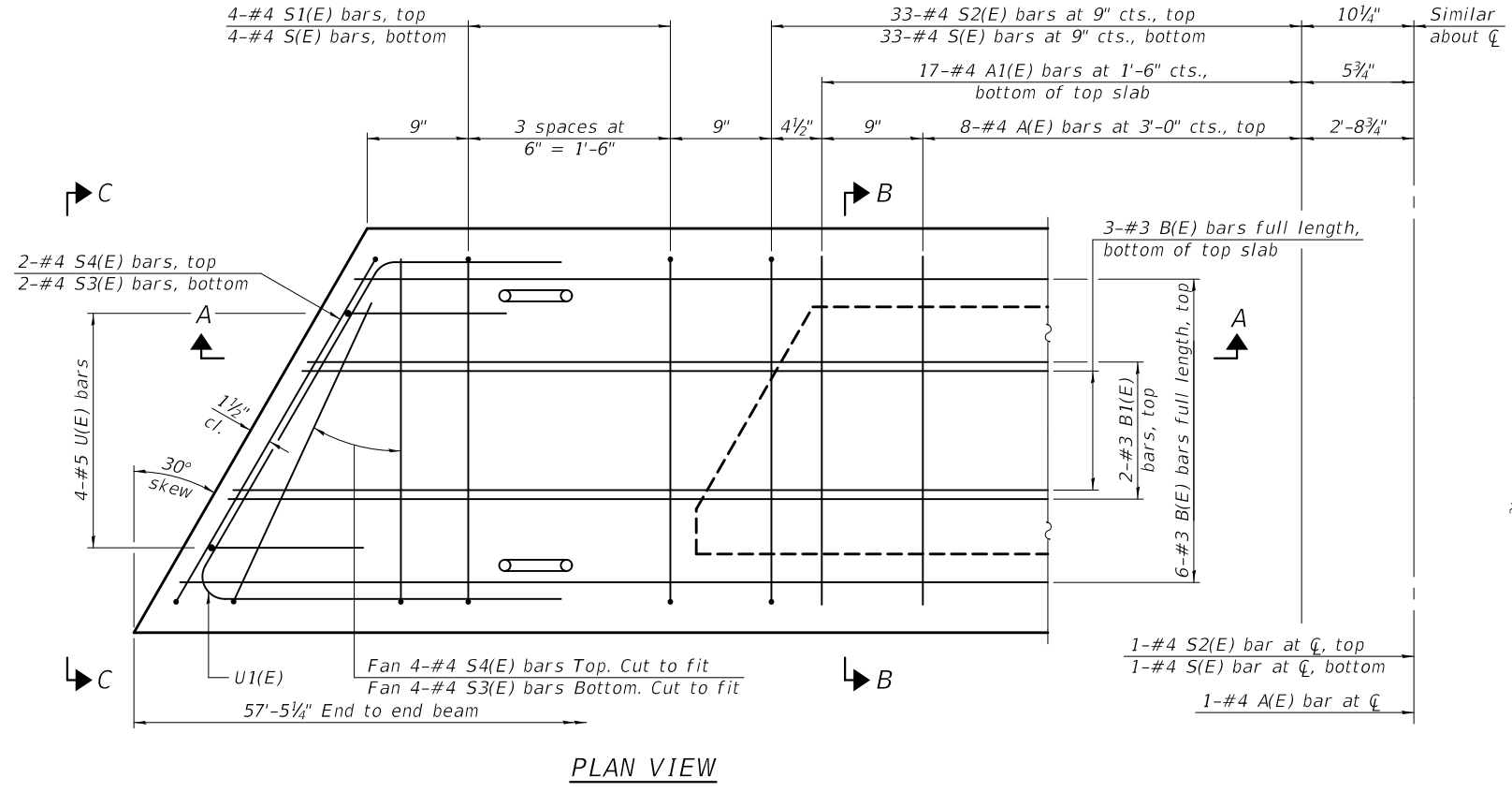
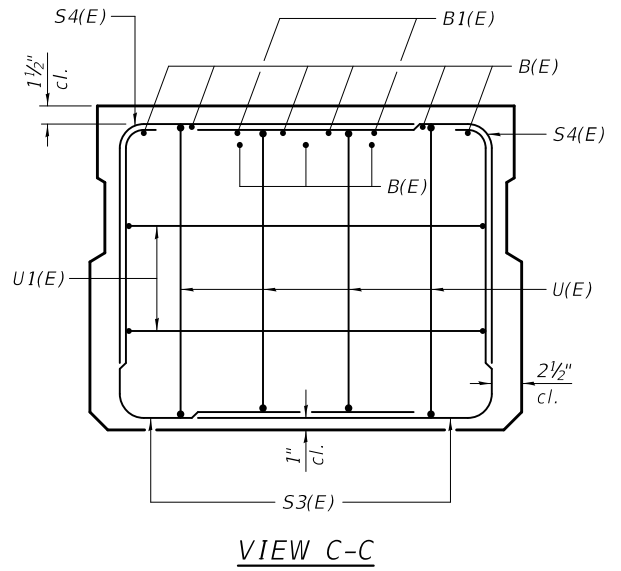
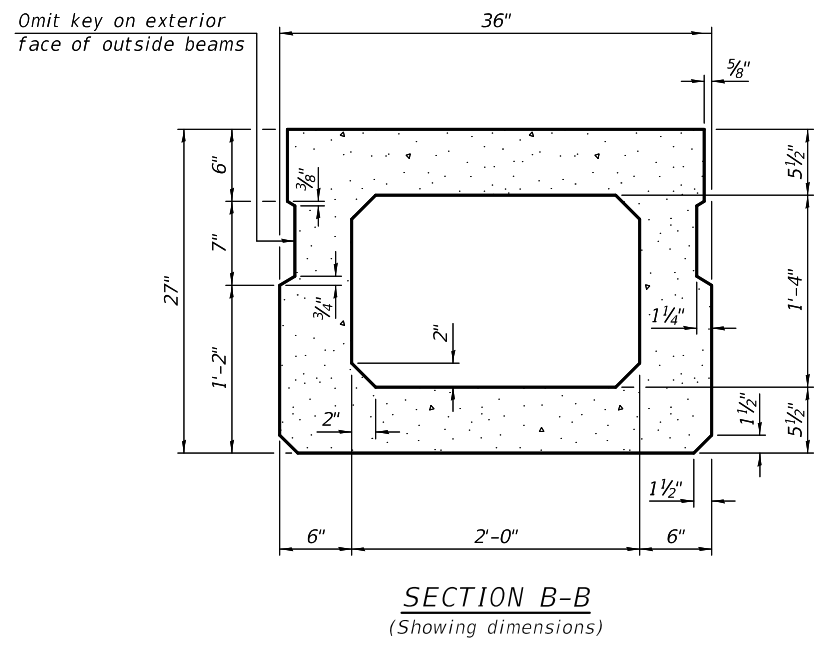
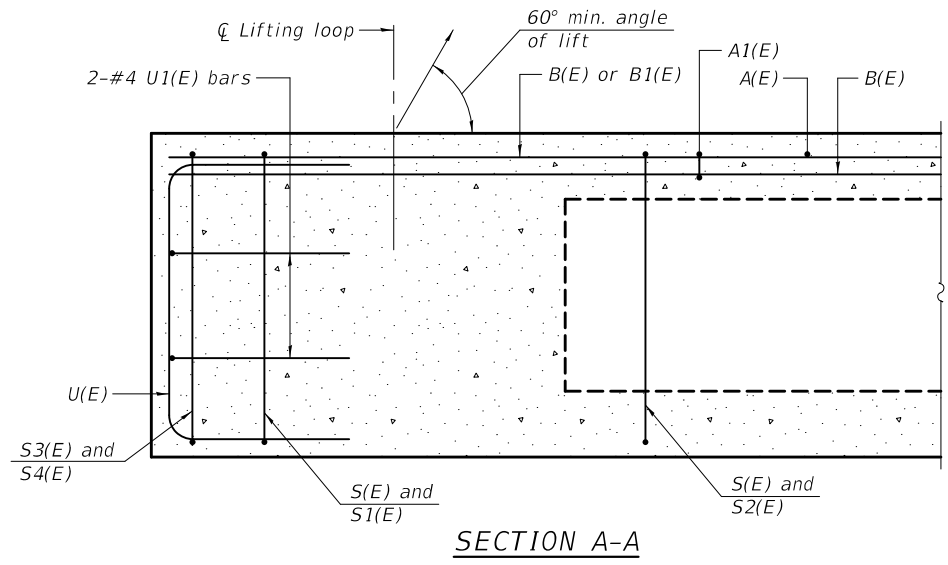
R-34CWS 2-17-2017 (6'-3" Maximum Post Spacing) (5" minimum to 7 $\frac{1}{8}$ " maximum CWS thickness)

DESIGNED - DAVID H. RICHTER	EXAMINED -
CHECKED - RYAN P. NEGANGARD	PASSED -
DRAWN - DENNIS A. POP	
CHECKED - DHR /RPN /GRA	

DATE - September 21, 2020
REVISIONS -
REVISIONS -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
STEEL RAILING, TYPE SM WITH CONCRETE WEARING SURFACE STRUCTURE NO. 070-0036
SHEET 12 OF 17 SHEETS

F.A.P. RTE. 770	SECTION 115BR-1	COUNTY MOULTRIE	TOTAL SHEETS 44	SHEET NO. 23
CONTRACT NO. 74326				
ILLINOIS FED. AID PROJECT				



BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	17	#4	2'-7"	—
A1(E)	34	#4	2'-10"	—
B(E)	9	#3	57'-2"	—
B1(E)	4	#3	10'-0"	—
S(E)	75	#4	7'-5"	U
S1(E)	8	#4	5'-11"	U
S2(E)	67	#4	6'-2"	U
S3(E)	12	#4	5'-0"	U
S4(E)	12	#4	4'-3"	U
U(E)	8	#5	4'-6"	C
U1(E)	4	#4	6'-10"	C

Note:
Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

Note:
Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

MINIMUM BAR LAP
#3 bar = 1'-6"

Note:
See sheet 14 of 17 for additional details and Bill of Material.

MODEL: 0700036-74326-013
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PD-2736-L 1-1-2020

DESIGNED - DAVID H. RICHTER	EXAMINED
CHECKED - RYAN P. NEGANGARD	PASSED
DRAWN - DENNIS A. POP	
CHECKED - DHR /RPN /GRA	

DATE - September 21, 2020

 ENGINEER OF BRIDGE DESIGN

 ENGINEER OF BRIDGES AND STRUCTURES

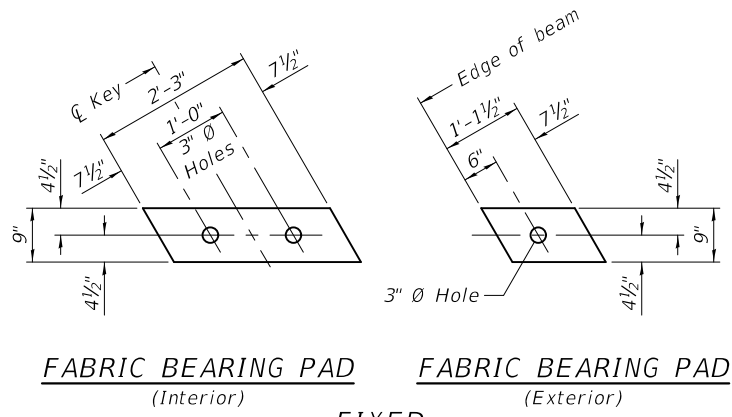
REVISD -	
REVISD -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

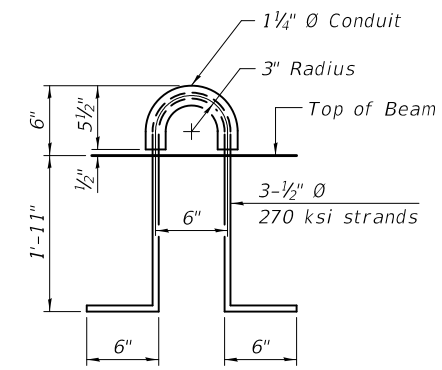
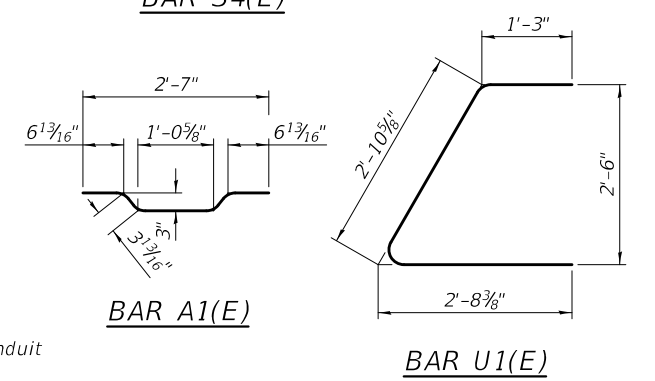
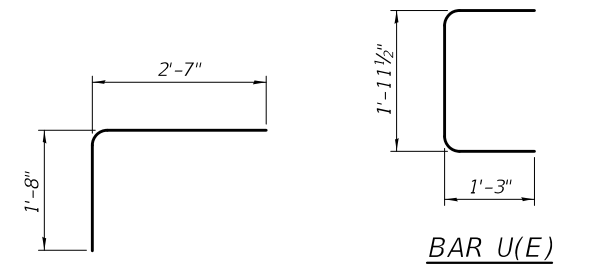
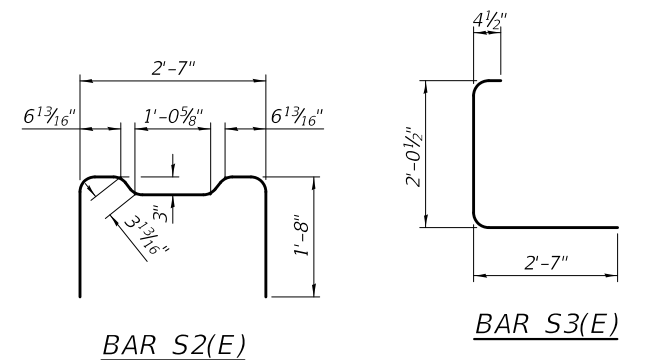
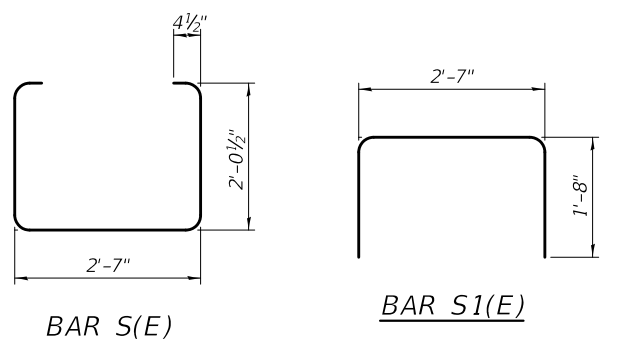
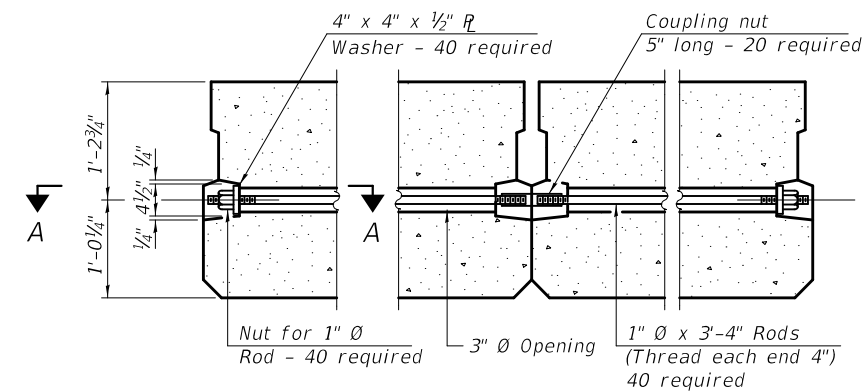
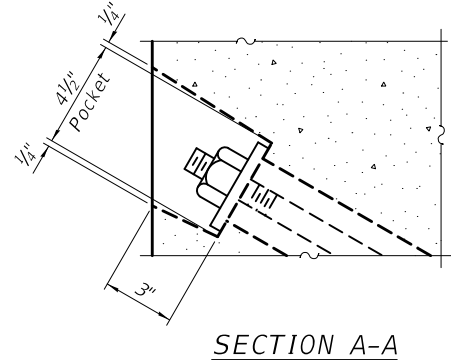
27" x 36" PPC DECK BEAM
STRUCTURE NO. 070-0036

SHEET 13 OF 17 SHEETS

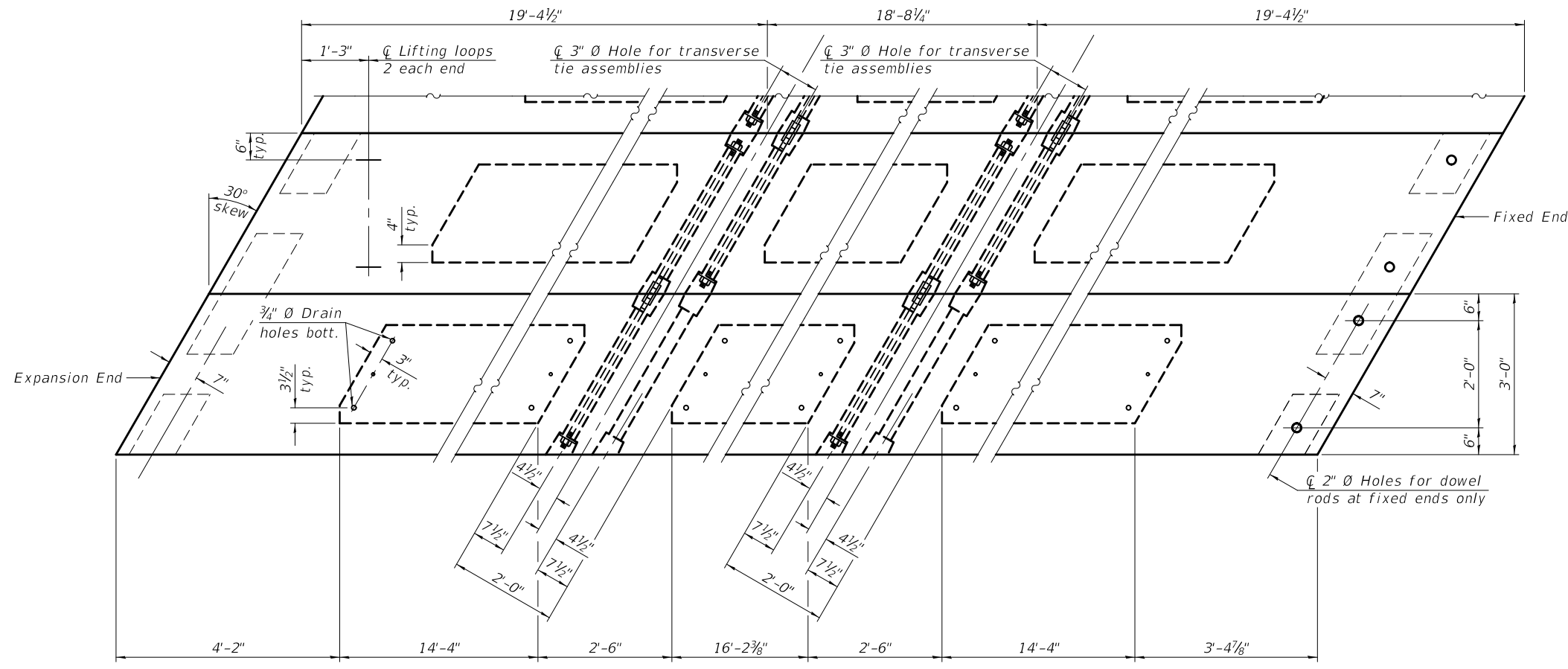
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	115BR-1	MOULTRIE	44	24
CONTRACT NO. 74326				
ILLINOIS FED. AID PROJECT				



FIXED



Notes:
 All bearing pads shall be 1" thick.
 Omit holes when using expansion bearings.
 Expansion bearing pads shall be bonded to the substructure.



NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.
 The 1" Ø rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
 Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
 A minimum 2 1/2" Ø lifting pin shall be used to engage the lifting loops during handling.
 Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
 Compressive strength of prestressed concrete, f'c, shall be 6000 psi.
 Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

Note:
 Connect beams in pairs with the transverse tie configuration shown.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (27" depth)	Sq. Ft.	1895
---	---------	------

MODEL: 0700036-74326-014
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PDD-2736-L 1-1-2020

DESIGNED - DAVID H. RICHTER	EXAMINED
CHECKED - RYAN P. NEGANGARD	PASSED
DRAWN - DENNIS A. POP	
CHECKED - DHR /RPN /GRA	

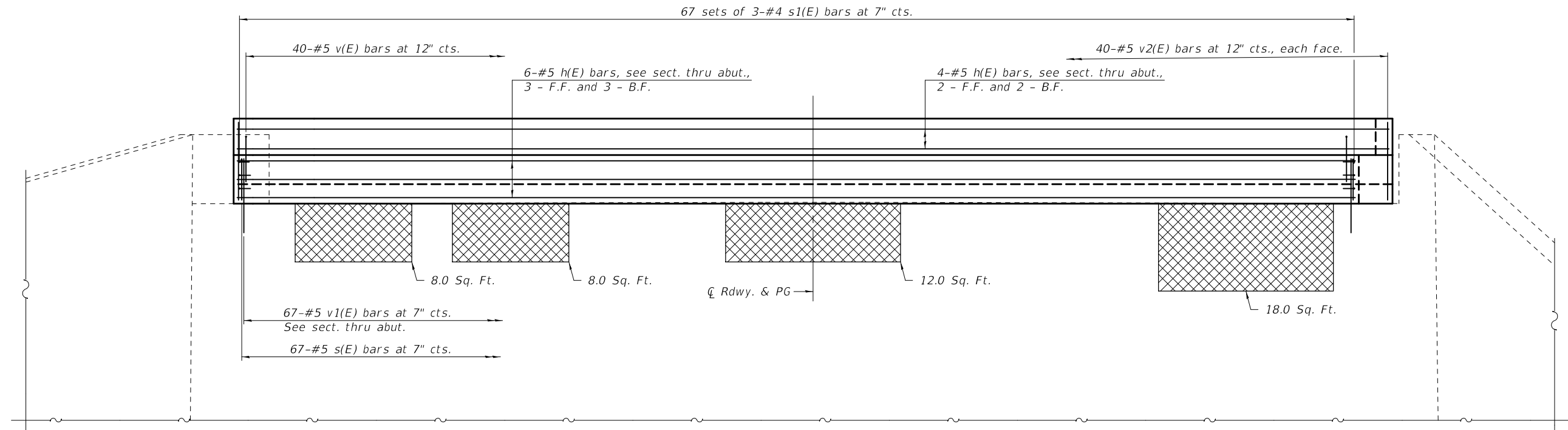
DATE - September 21, 2020
 REVISIONS

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**27" x 36" PPC DECK BEAM DETAILS
 STRUCTURE NO. 070-0036**

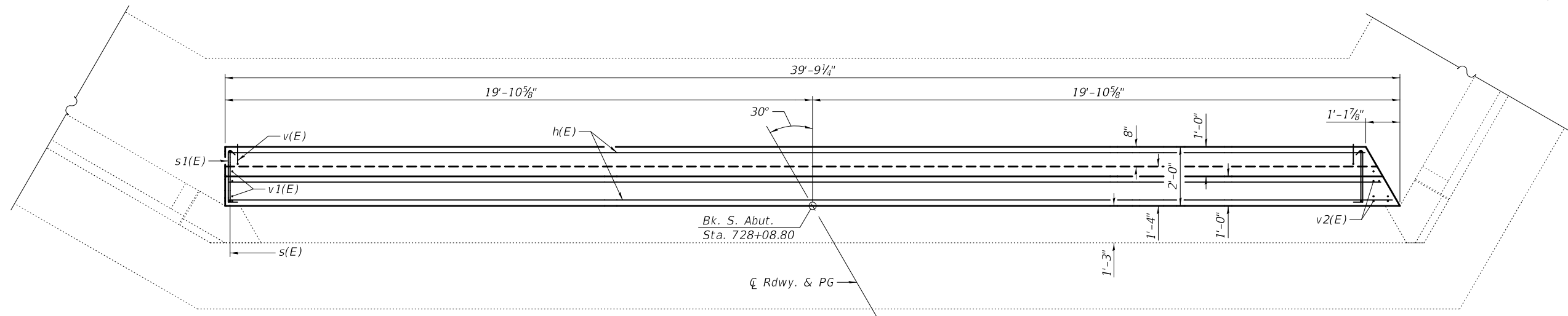
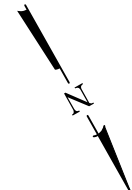
SHEET 14 OF 17 SHEETS

F.A.P. RTE. 770	SECTION 115BR-1	COUNTY MOULTRIE	TOTAL SHEETS 44	SHEET NO. 25
CONTRACT NO. 74326				
ILLINOIS FED. AID PROJECT				



ELEVATION
(Looking South)

Notes:
 Cross-hatched areas indicate areas of Structural Repair of Concrete
 (Depth Equal to or Less than 5 Inches).
 See sheet 17 of 17 for Concrete Removal details.
 Hook s1(E) bars around s(E) bars.



PLAN

MODEL: 0700036-74326-015
 FILE NAME: p:\planroom\dot.illinois.gov\PWIDOT\Documents\DOT Offices\Bureau of Bridges and Structures\Projects\0700036\CADD Plans\0700036-74326.dgn

DESIGNED - DAVID H. RICHTER	EXAMINED
CHECKED - RYAN P. NEGANGARD	PASSED
DRAWN - DENNIS A. POP	
CHECKED - DHR /RPN /GRA	

EXAMINED: *Jaime F. Joffe*
 ENGINEER OF BRIDGE DESIGN
 PASSED: *Carl Kasper*
 ENGINEER OF BRIDGES AND STRUCTURES

DATE - September 21, 2020
REVISED -
REVISED -

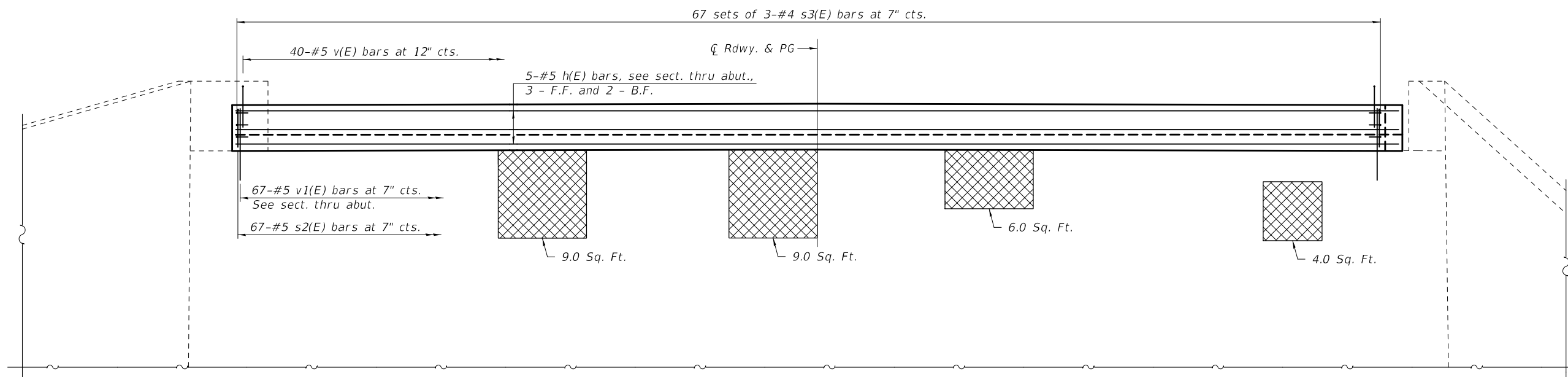
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT
STRUCTURE NO. 070-0036

SHEET 15 OF 17 SHEETS

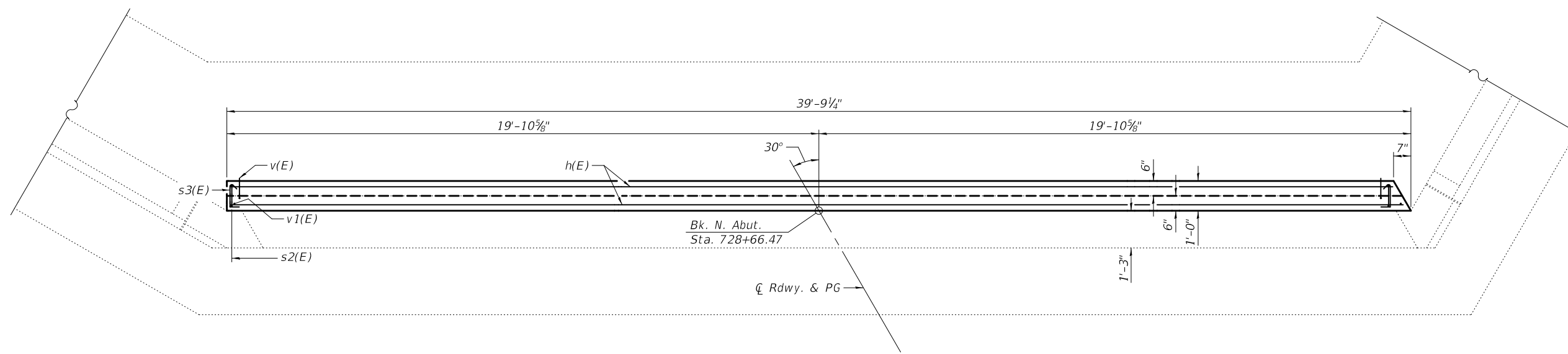
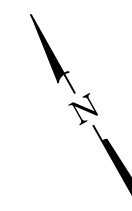
F.A.P. RTE. 770	SECTION 115BR-1	COUNTY MOULTRIE	TOTAL SHEETS 44	SHEET NO. 26
CONTRACT NO. 74326				
ILLINOIS FED. AID PROJECT				

9/21/2020 11:18:11 AM



ELEVATION
(Looking North)

Notes:
 Cross-hatched areas indicate areas of Structural Repair of Concrete
 (Depth Equal to or Less than 5 Inches).
 See sheet 17 of 17 for Concrete Removal details.
 Hook s3(E) bars around s2(E) bars.



PLAN

MODEL: 0700036-74326-016
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DESIGNED -	DAVID H. RICHTER
CHECKED -	RYAN P. NEGANGARD
DRAWN -	DENNIS A. POP
CHECKED -	DHR /RPN /GRA

EXAMINED	<i>Joanne F. Jaffe</i>
PASSED	<i>Carl Kasper</i>
	ENGINEER OF BRIDGES AND STRUCTURES

DATE -	September 21, 2020
REVISED -	_____
REVISED -	_____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT
STRUCTURE NO. 070-0036

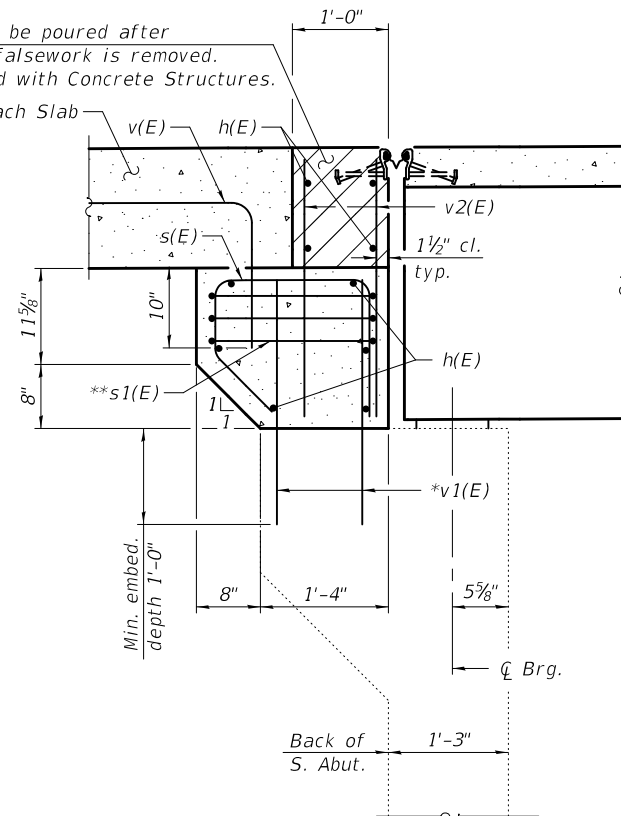
SHEET 16 OF 17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	115BR-1	MOULTRIE	44	27
CONTRACT NO. 74326				

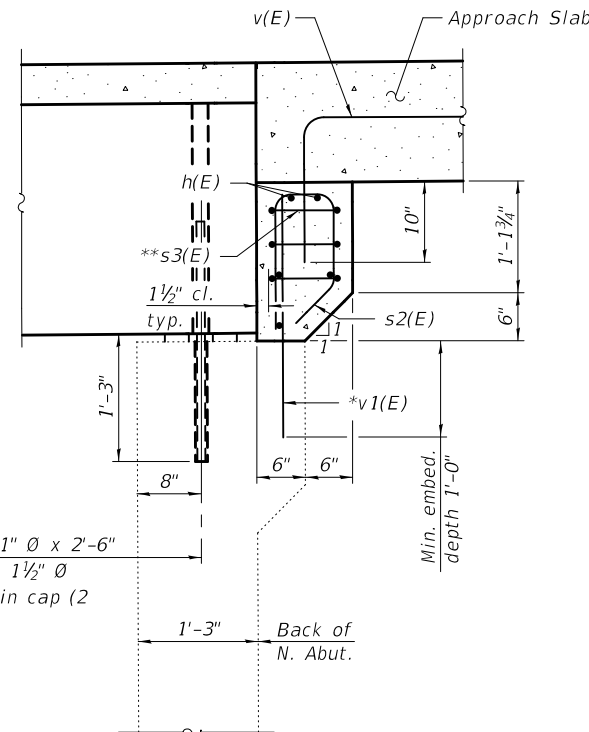
ILLINOIS FED. AID PROJECT

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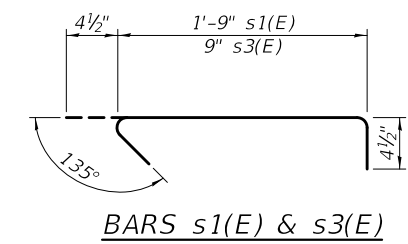
Hatched area to be poured after superstructure falsework is removed. Quantity included with Concrete Structures.



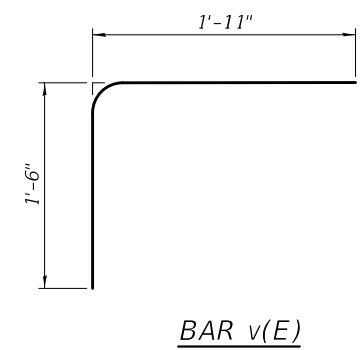
SECTION THRU SOUTH ABUTMENT



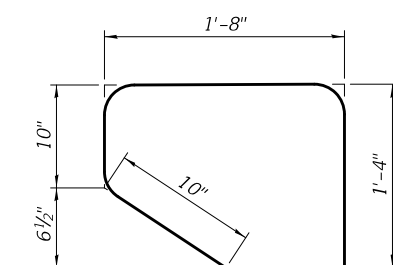
SECTION THRU NORTH ABUTMENT



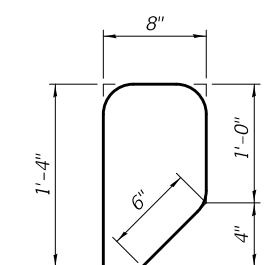
BARS s1(E) & s3(E)



BAR v(E)

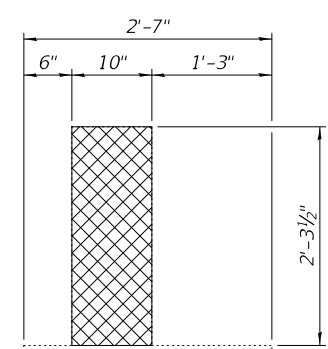


BAR S(E)

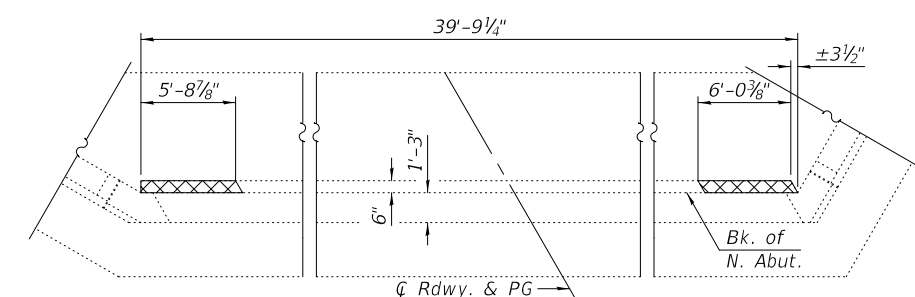


BAR S2(E)

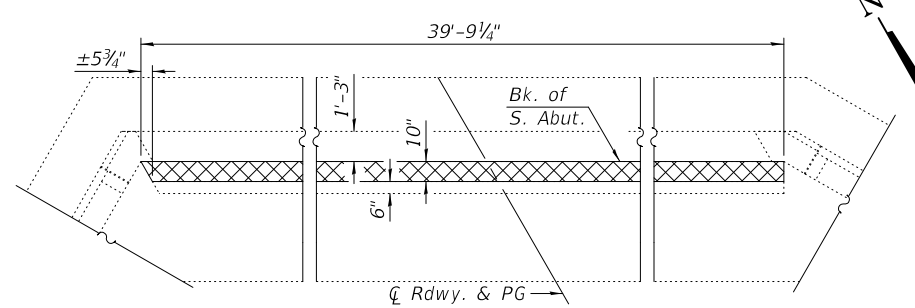
Notes:
 Concrete Removal dimensions shall be determined in the field. The removal limits should be adjusted to account for beam overrun and PJF installation as required for placement of the new superstructure.
 Cross-hatched area indicates Concrete Removal.
 * Drill and grout v1(E) bars to minimum depth shown according to Article 584 of the Standard Specifications.
 ** Tilt bars as necessary to fit.



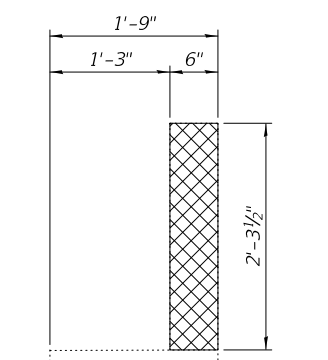
SOUTH ABUTMENT REMOVAL
(Looking West)



NORTH ABUTMENT REMOVAL PLAN



SOUTH ABUTMENT REMOVAL PLAN



NORTH ABUTMENT REMOVAL
(Looking West)

BILL OF MATERIAL SOUTH ABUTMENT

Bar	No.	Size	Length	Shape
h(E)	10	#5	39'-0"	—
s(E)	67	#5	4'-8"	⌋
s1(E)	201	#4	2'-6"	⌋
v(E)	40	#5	3'-5"	⌋
v1(E)	134	#5	2'-6"	—
v2(E)	80	#5	2'-7"	—
Concrete Structures			Cu. Yd.	6.2
Reinforcement Bars, Epoxy Coated			Pound	1780
Concrete Sealer			Sq. Ft.	65.0
Structure Repair of Concrete (Depth Equal to or Less Than 5 Inches)			Sq. Ft.	46.0
Concrete Removal			Cu. Yd.	2.8

BILL OF MATERIAL NORTH ABUTMENT

Bar	No.	Size	Length	Shape
h(E)	5	#5	39'-0"	—
s2(E)	67	#5	3'-6"	⌋
s3(E)	201	#4	1'-6"	⌋
v(E)	40	#5	3'-5"	⌋
v1(E)	67	#5	2'-6"	—
Concrete Structures			Cu. Yd.	2.3
Reinforcement Bars, Epoxy Coated			Pound	970
Structure Repair of Concrete (Depth Equal to or Less Than 5 Inches)			Sq. Ft.	28.0
Concrete Removal			Cu. Yd.	0.6

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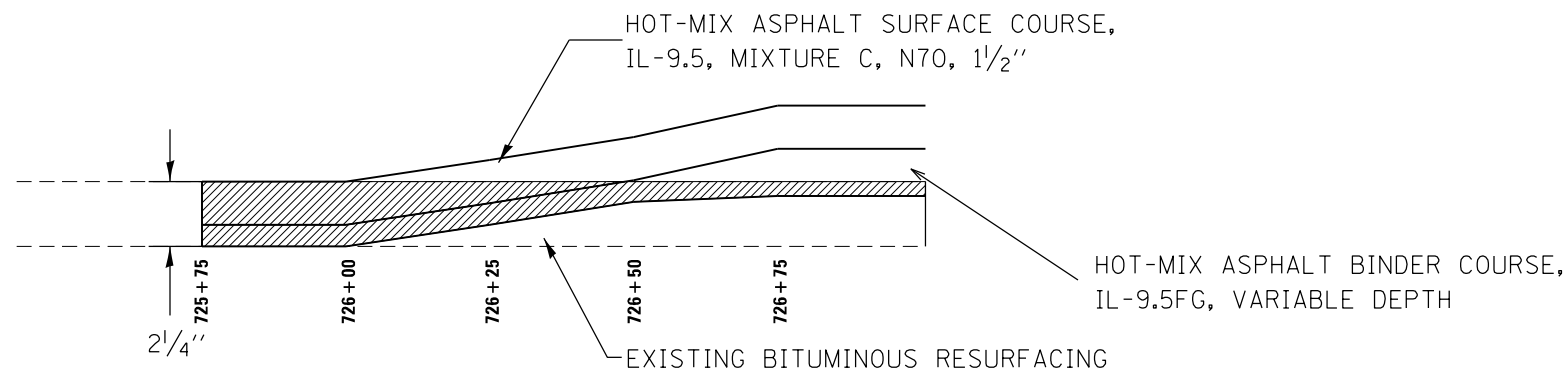
DESIGNED - DAVID H. RICHTER	EXAMINED - <i>Joanne F. Joffe</i>	DATE - September 21, 2020
CHECKED - RYAN P. NEGANGARD	PASSED - <i>Carl Kasper</i>	REVISIONS -
DRAWN - DENNIS A. POP	ENGINEER OF BRIDGES AND STRUCTURES	REVISIONS -
CHECKED - DHR /RPN /GRA		

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ABUTMENT DETAILS
 STRUCTURE NO. 070-0036**

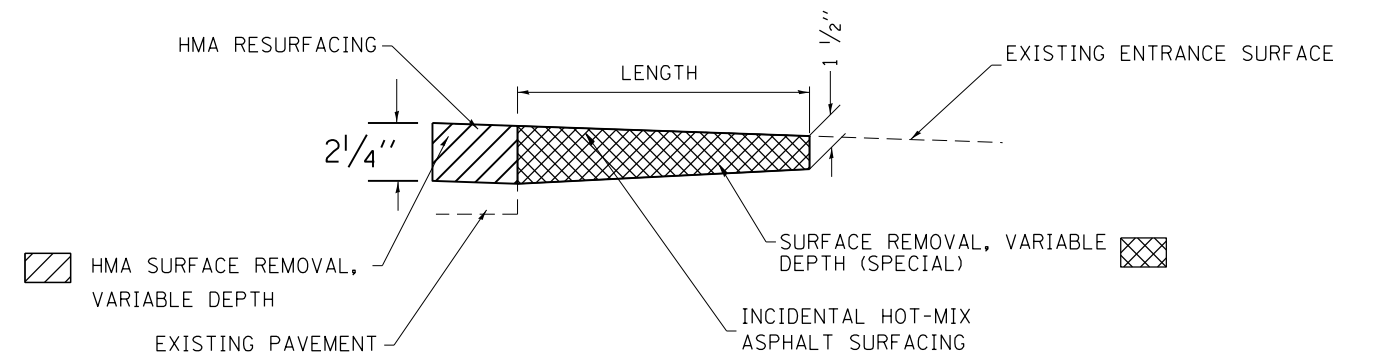
SHEET 17 OF 17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	115BR-1	MOULTRIE	44	28
CONTRACT NO. 74326				
ILLINOIS FED. AID PROJECT				



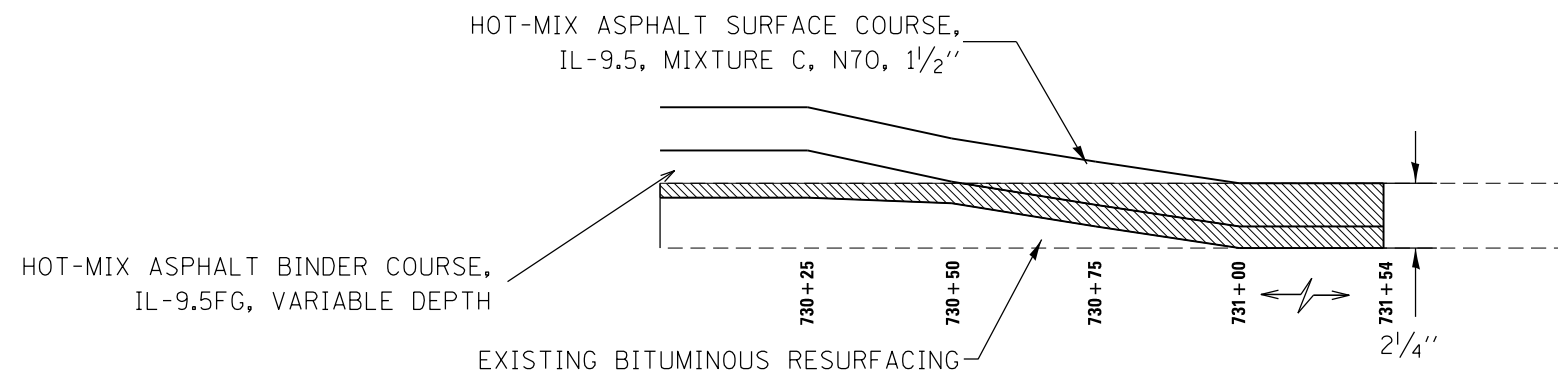
PAVING DETAIL
@ STA 725+75

 HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH



SECTION C-C

PAVING DETAIL
@ ENTRANCE
STA 731+40



PAVING DETAIL
@ STA 731+54

HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH 

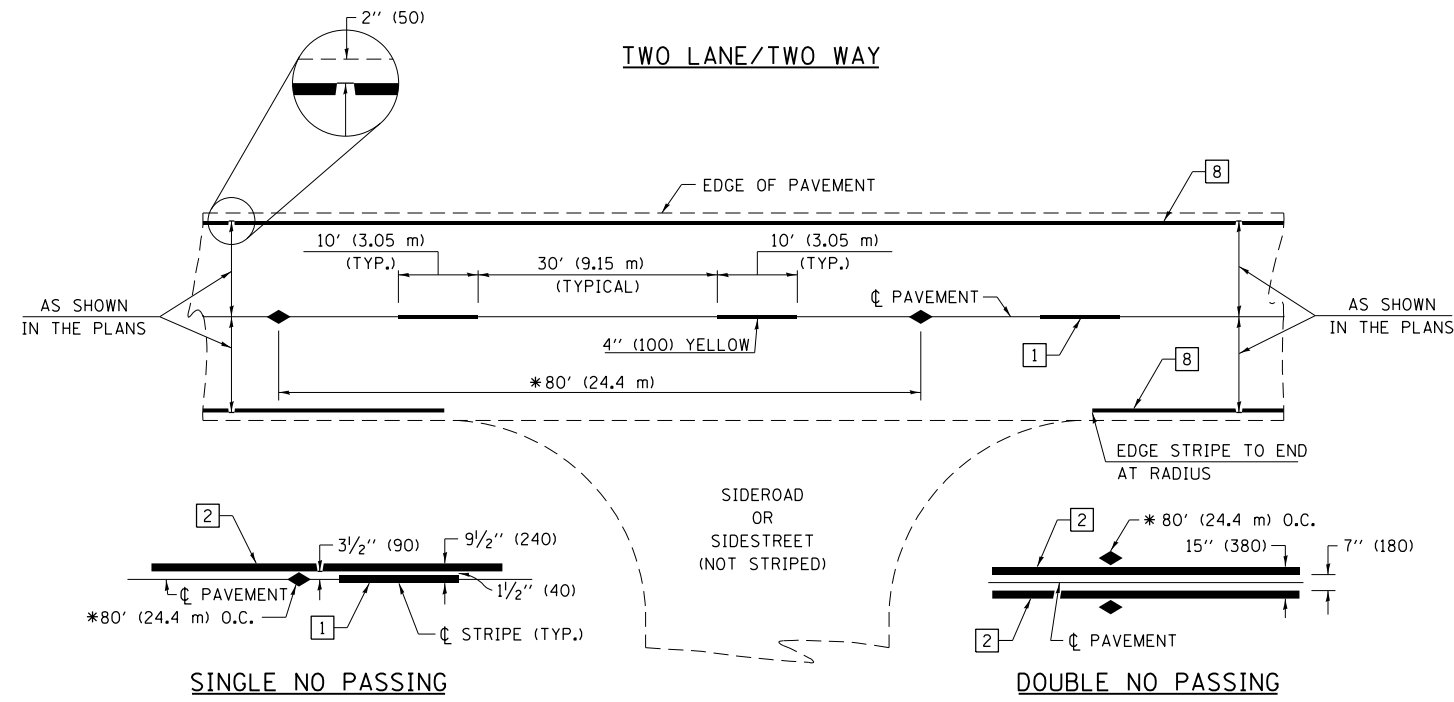
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USER NAME = steffenmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/19/2020	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MILLING/PAVING DETAILS			
SCALE:	SHEET 1	OF 1 SHEETS	STA. TO STA.

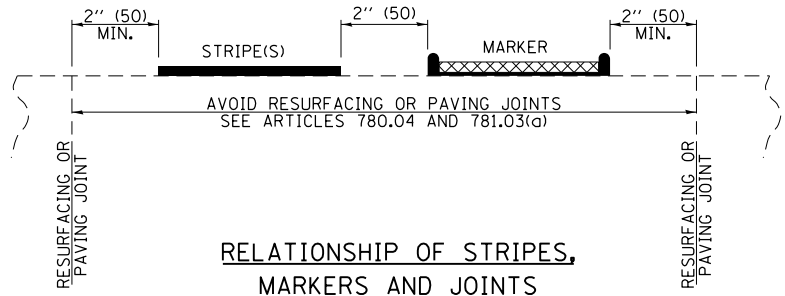
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	115BR-1	MOULTRIE	44	29
CONTRACT NO. 74326				
ILLINOIS FED. AID PROJECT				



* REDUCE TO 40' (12.2 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEEDS OF 45 mph (70 km/h) OR LESS.

PAVEMENT MARKING LEGEND

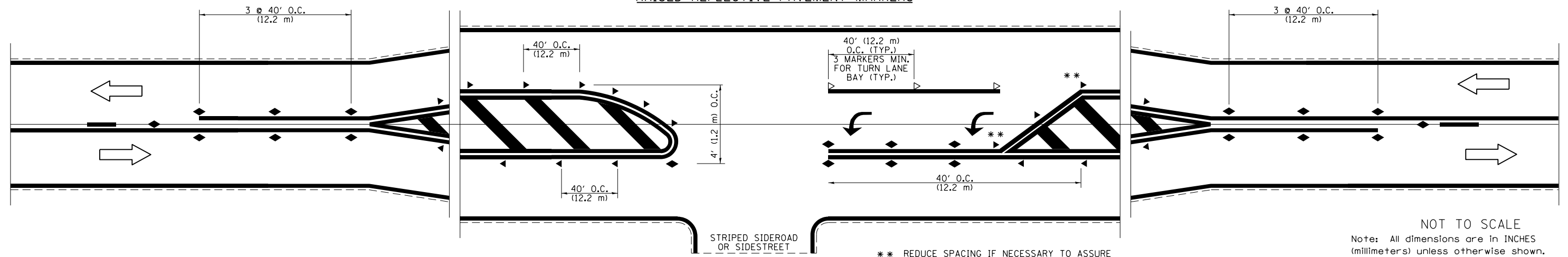
- 1 4" (100) SKIP-DASH (YELLOW)
 - 2 4" (100) SOLID (YELLOW)
 - 3 12" (300) DIAGONAL (YELLOW)
 - 4 4" (100) DOUBLE YELLOW (NARROW)
 - 5 12" (300) SOLID WHITE
 - 6 RESERVED
 - 7 6" (150) SKIP-DASH (WHITE)
 - 8 4" (100) SOLID (WHITE)
 - 9 12" (300) DIAGONAL (WHITE)
 - 10 6" (150) SOLID (WHITE)
 - 11 24" (600) STOP BAR (WHITE)
 - 12 8" (200) SOLID (WHITE)
 - 13 4" (100) PARKING WHITE
-



TYPICAL PAVEMENT MARKERS LEGEND

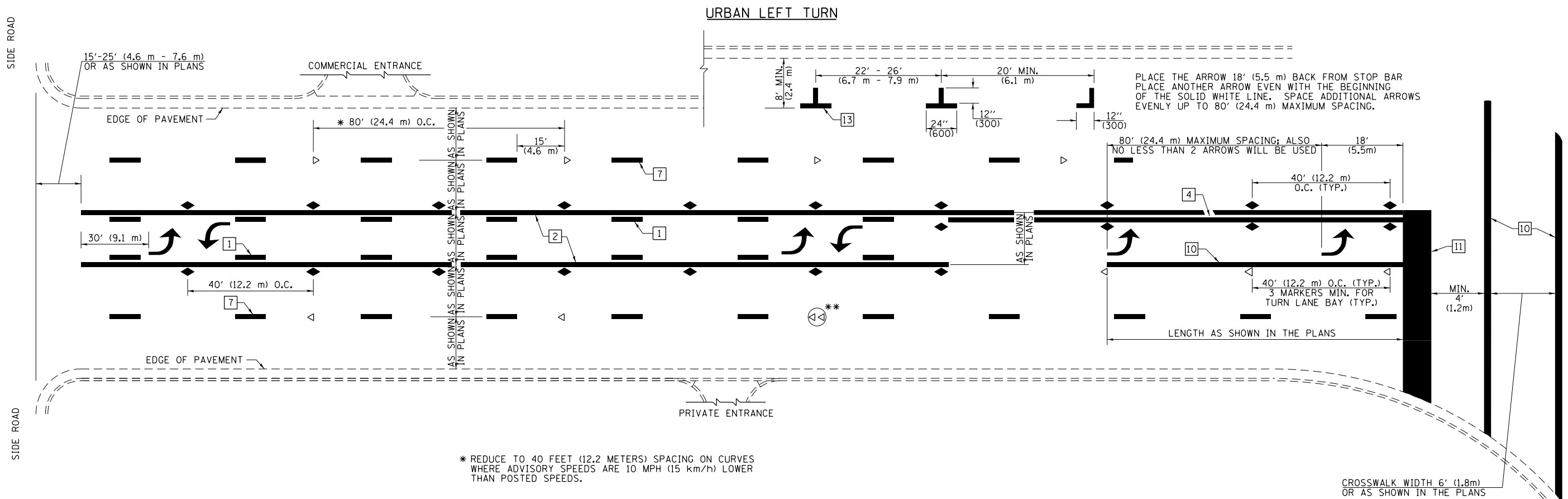
- ◆ TWO-WAY AMBER MARKER
- ▶ ONE-WAY AMBER MARKER
- ▷ ONE-WAY CRYSTAL MARKER

RAISED REFLECTIVE PAVEMENT MARKERS



NOT TO SCALE
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. 78000001



PLACE THE ARROW 18' (5.5 m) BACK FROM STOP BAR
 PLACE ANOTHER ARROW EVEN WITH THE BEGINNING
 OF THE SOLID WHITE LINE. SPACE ADDITIONAL ARROWS
 EVENLY UP TO 80' (24.4 m) MAXIMUM SPACING.

* REDUCE TO 40 FEET (12.2 METERS) SPACING ON CURVES
 WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER
 THAN POSTED SPEEDS.

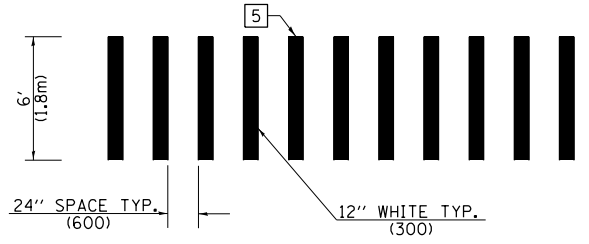
** DOUBLE LANE LINE MARKERS SHALL BE SPECIFIED
 AND SPACED AS SHOWN IN HIGHWAY STANDARD
 781001 FOR MULTI-LANE DIVIDED AND UNDIVIDED
 HIGHWAYS.

PAVEMENT MARKING LEGEND

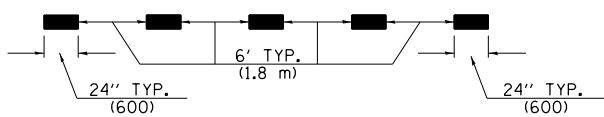
- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 12" (300) SOLID WHITE
- 6 RESERVED
- 7 6" (150) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) PARKING WHITE

GENERAL NOTES

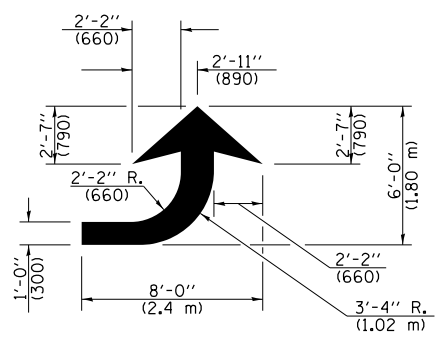
1. TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE. USE A MINIMUM OF TWO PAIRS PER BLOCK.
2. THE SOLID YELLOW PAVEMENT MARKINGS [2] SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE OR BOTH ENDS WOULD INCLUDE STOP BARS.
3. THE SKIP-DASH PAVEMENT MARKINGS [1] OR [7] SHOULD BE CENTERED BETWEEN BOTH ENDS OF EACH CITY BLOCK AND SHALL BE PLACED SO THEY LINE UP ACROSS FROM EACH OTHER.
4. USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE LAST PAGE OF SECTION 780x FOR SYMBOLS TABLE)
5. LANE LINE EXTENSIONS SHALL BE THE SAME COLOR AND WIDTH AS THE LANE LINE BEING EXTENDED.



**CROSSWALK DETAIL
 (DECATUR CITY LIMITS ONLY)**

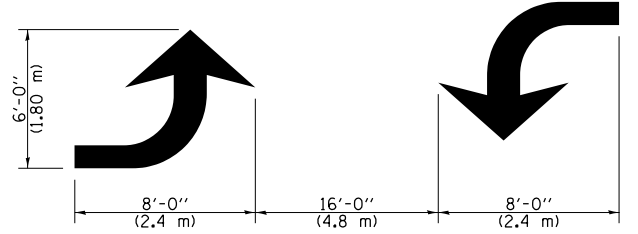


LANE LINE EXTENSIONS



LEFT ARROW

REVERSE FOR RIGHT ARROW
 AREA = 15.6 SQ. FT. (1.47 m²)
 (WHITE)



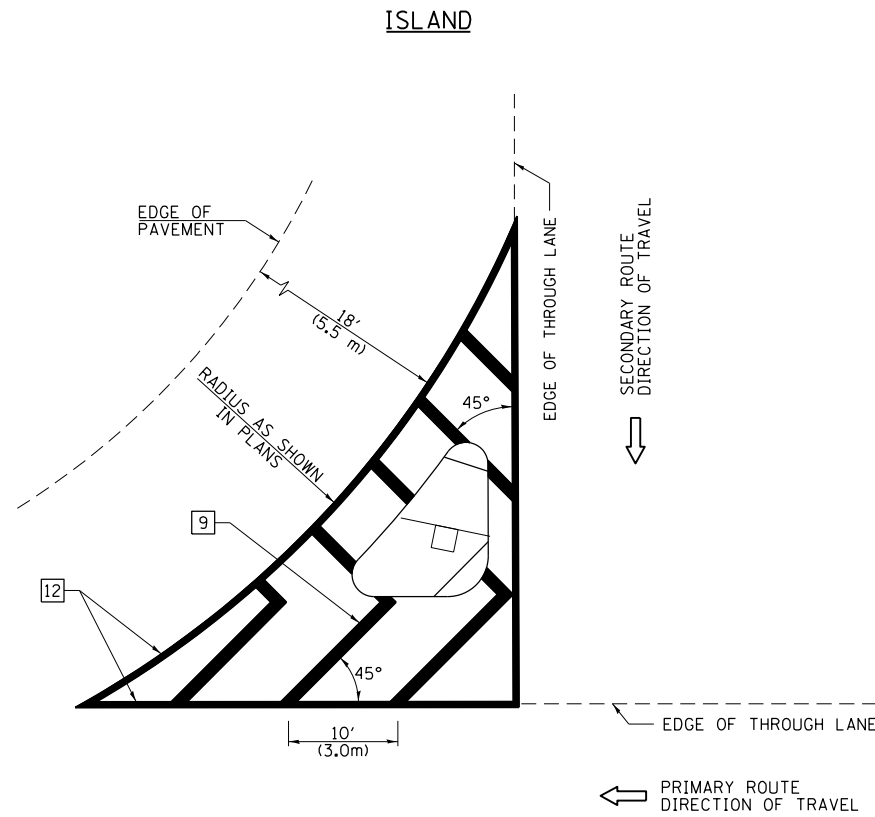
**TYPICAL DOUBLE
 TURN ARROWS (WHITE)**

NOT TO SCALE

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. 7800001

FILE NAME =	USER NAME = steffennk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS (RURAL & URBAN APPLICATIONS)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\planroom.dot.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 7\Projects\74326\CDRAWN\CADsheets\0774326-shd-details.dgn		CHECKED -	REVISED -			770	115BR-2	MOULTRIE	44	31	
		DATE -	REVISED -			CONTRACT NO. 74326					
						ILLINOIS FED. AID PROJECT					

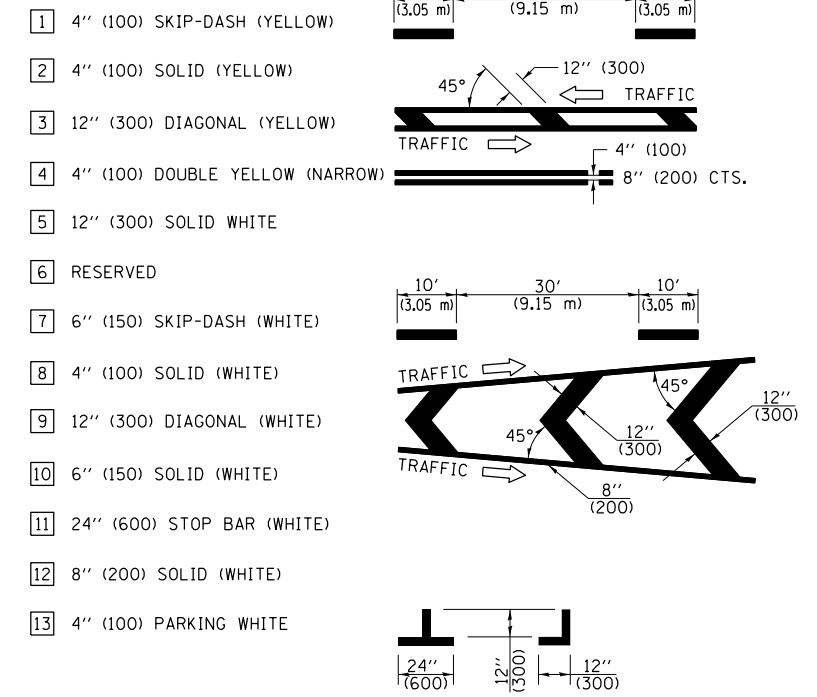


GENERAL NOTES

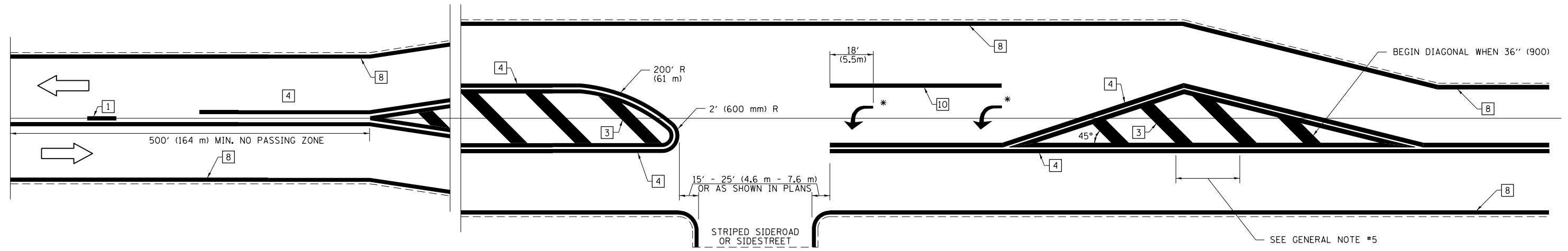
1. RAISED AND CORRUGATED MEDIANS SHALL BE OUTLINED WITH [2] IF PRESENT.
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
5. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING:

< 30 MPH (< 50 km/h)	15' (4.5 m)
30-45 MPH (50-75 km/h)	20' (6.0 m)
>45 MPH (>75 km/h)	30' (9.0 m)

PAVEMENT MARKING LEGEND



RURAL LEFT TURN STRIPING



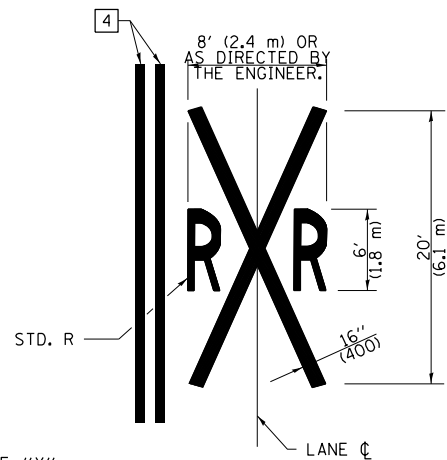
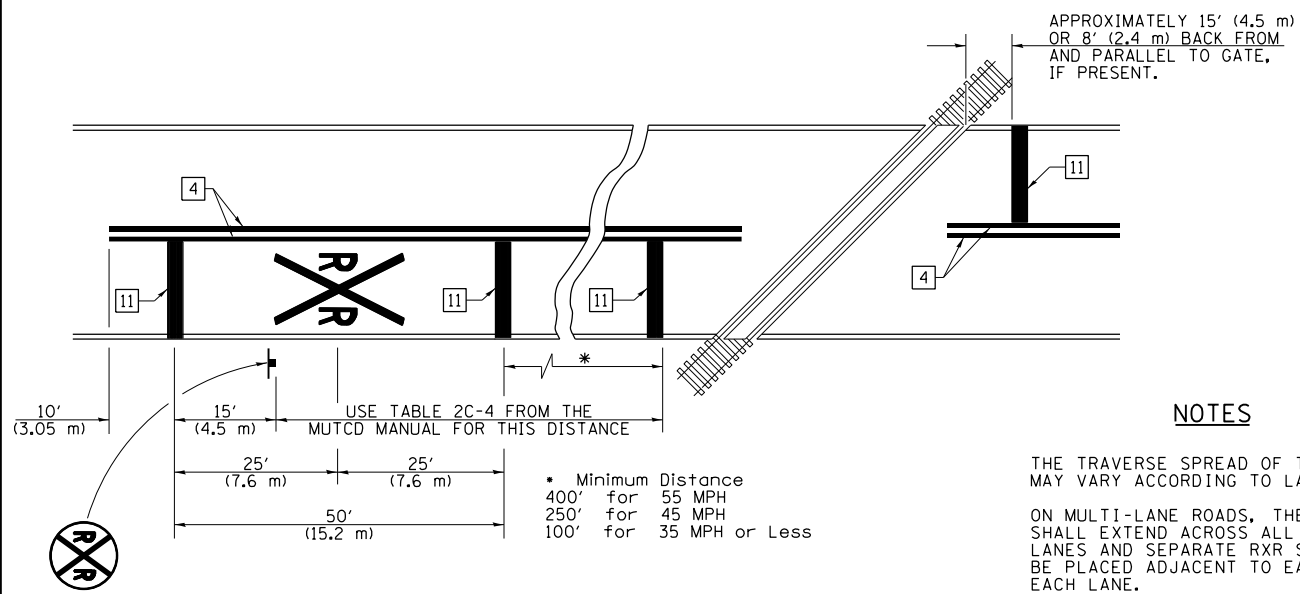
* PLACE AN ARROW 18' (5.5 m) BACK FROM STOP BAR. PLACE ANOTHER ARROW EVEN WITH THE BEGINNING OF THE SOLID WHITE LINE. SPACE ADDITIONAL ARROWS EVENLY UP TO 80' (24.4 m) MAXIMUM SPACING. USE MINIMUM OF 2 ARROWS.

NOT TO SCALE
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. 7800001

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS (RURAL & URBAN APPLICATIONS)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\planroom.dot.illinois.gov\PIDOT\Documents\IDOT Offices\District 7\Projects\74326\DRAWN\CADsheets\0774326-shd-details.dgn	DESIGNED -	REVISED -	770			115BR-1	MOULTRIE	44	32	
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -	CONTRACT NO. 74326							
PLOT DATE = 8/19/2020	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							

PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING



NOTES

THE TRAVERSE SPREAD OF THE "X" MAY VARY ACCORDING TO LANE WIDTH.

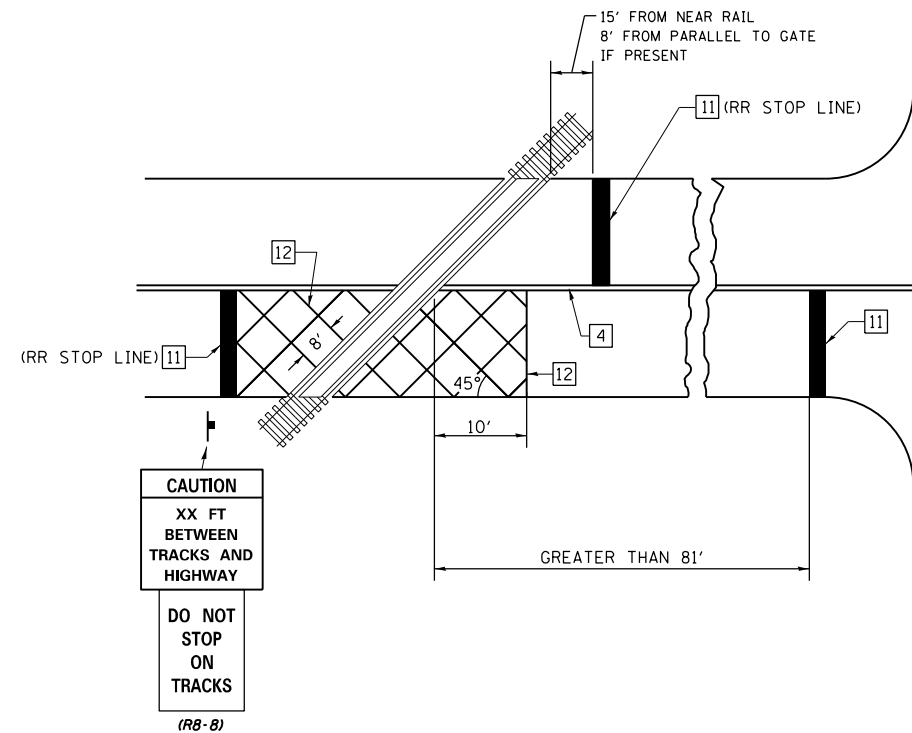
ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE R X R SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN EACH LANE.

WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B OF THE MUTCD.

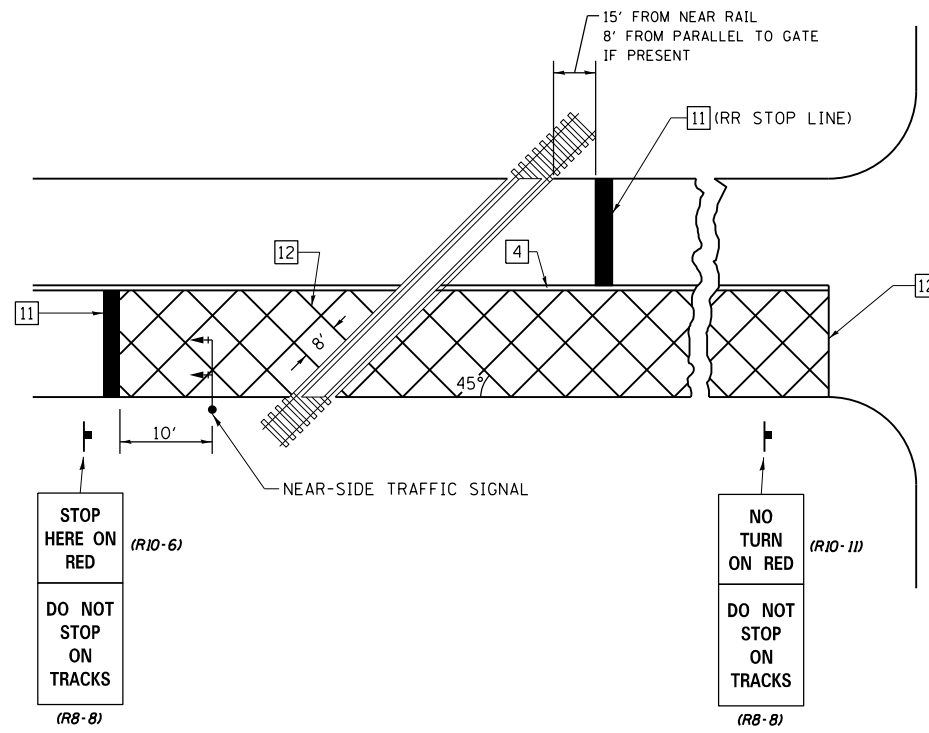
PAVEMENT MARKING LEGEND

- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 12" (300) SOLID WHITE
- 6 RESERVED
- 7 6" (150) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) PARKING WHITE

RAILROAD CROSSING WITH INTERCONNECT ONLY



RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



GENERAL NOTES

- SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
- EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED.

SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING

NOT TO SCALE

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. 78000001

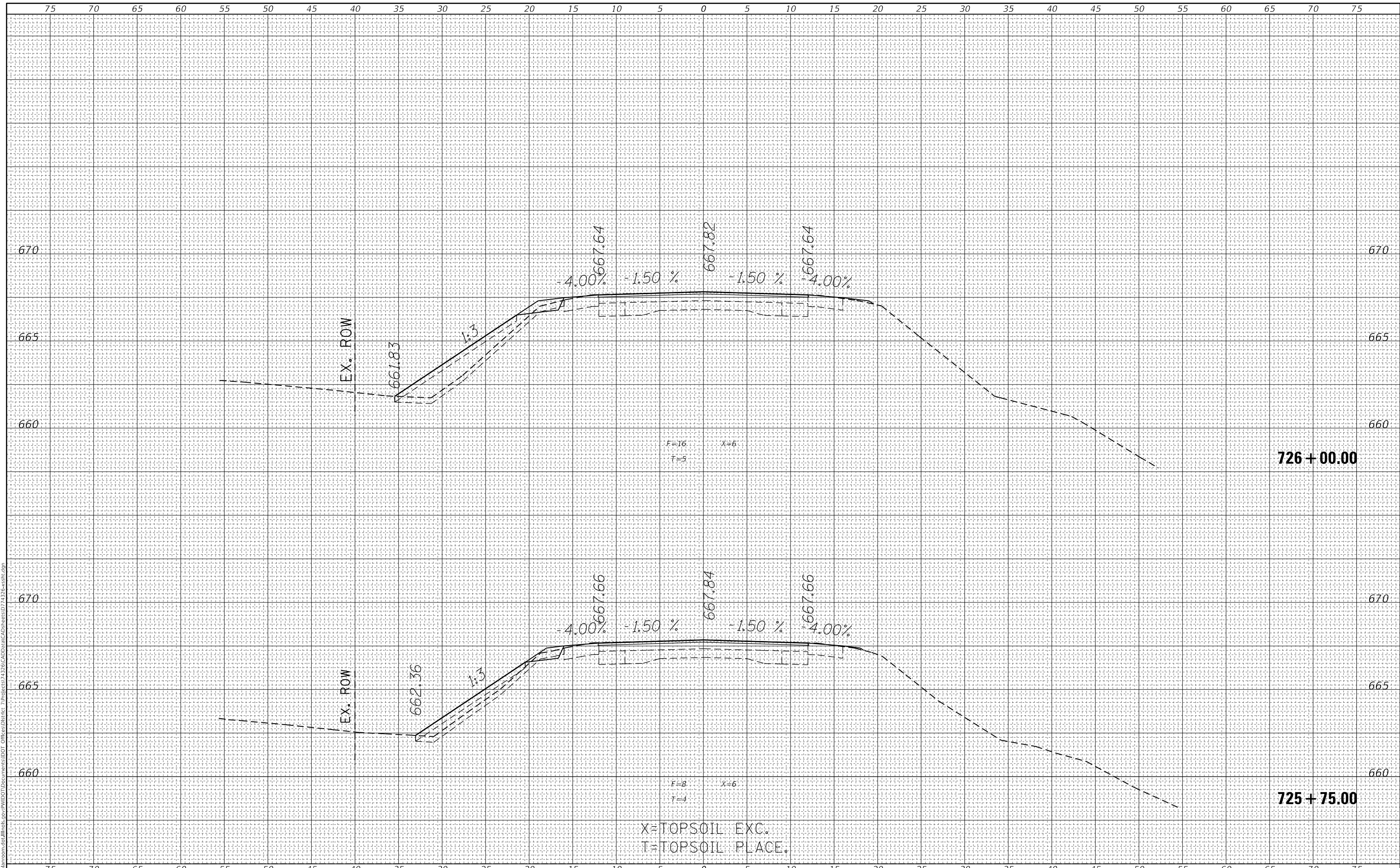
FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS (RURAL & URBAN APPLICATIONS)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\planroom.dot.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 7\Projects\74326\DRAWING\CADsheets\0774326-shd-details.dgn	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -			770	115BR-1	MOULTRIE	44	33	
	PLOT DATE = 8/19/2020	DATE -	REVISED -			CONTRACT NO. 74326					
						ILLINOIS FED. AID PROJECT					

SCALE: SHEET NO. 4 OF 4 SHEETS STA. TO STA.

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

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PLOTTED	
TEMPLATE	
AREAS CHECKED	
ORIGINAL SURVEY NO.	
NOTE BOOK NO.	
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USER NAME = stefenmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 8/19/2020	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

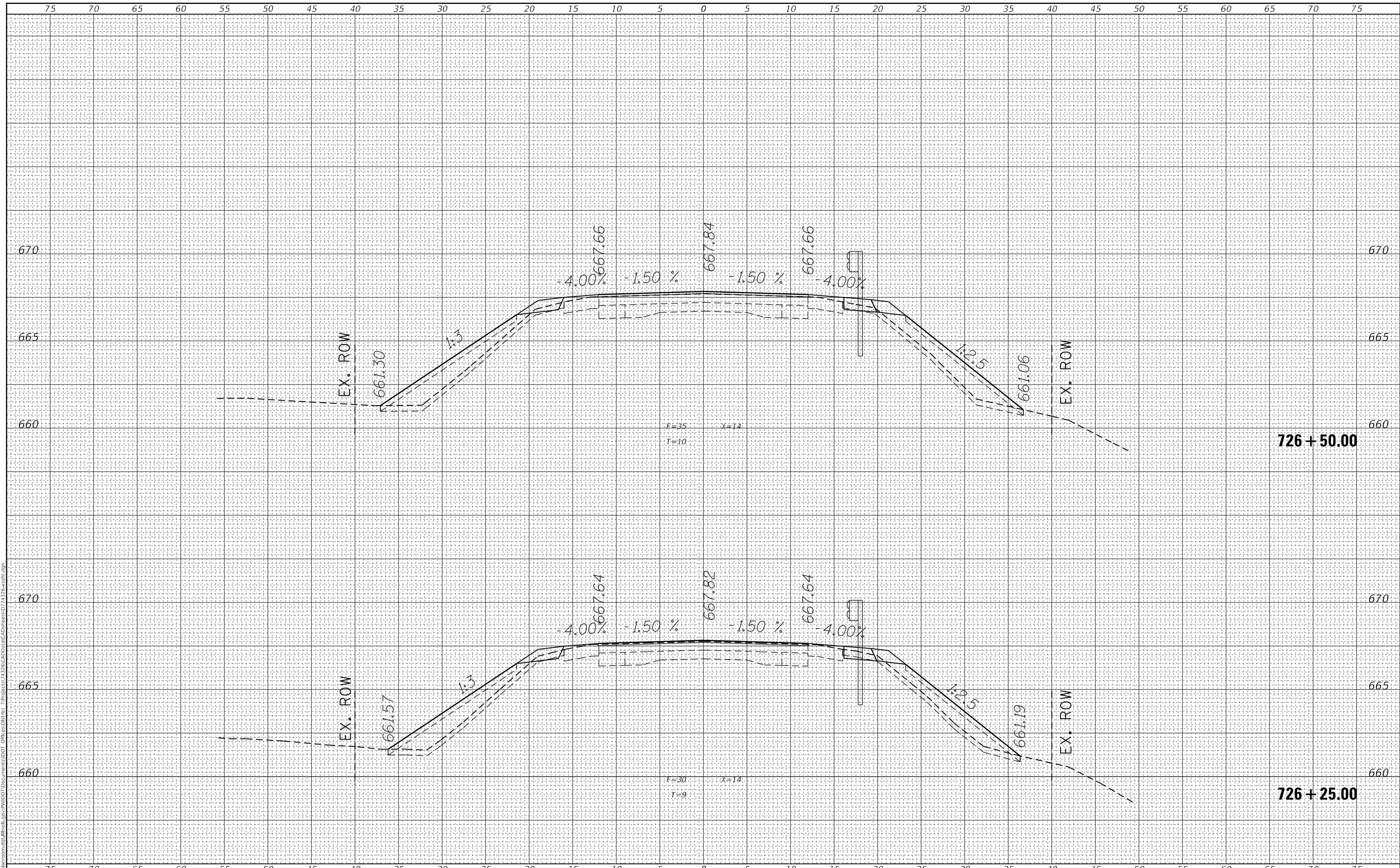
SCALE: SHEET 1 OF 11 SHEETS STA. 725+75.00 TO STA. 726+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	115BR-1	MOULTRIE	44	34
			CONTRACT NO. 74326	
		ILLINOIS	FED. AID PROJECT	

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

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

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USER NAME = stefenmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 8/19/2020	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

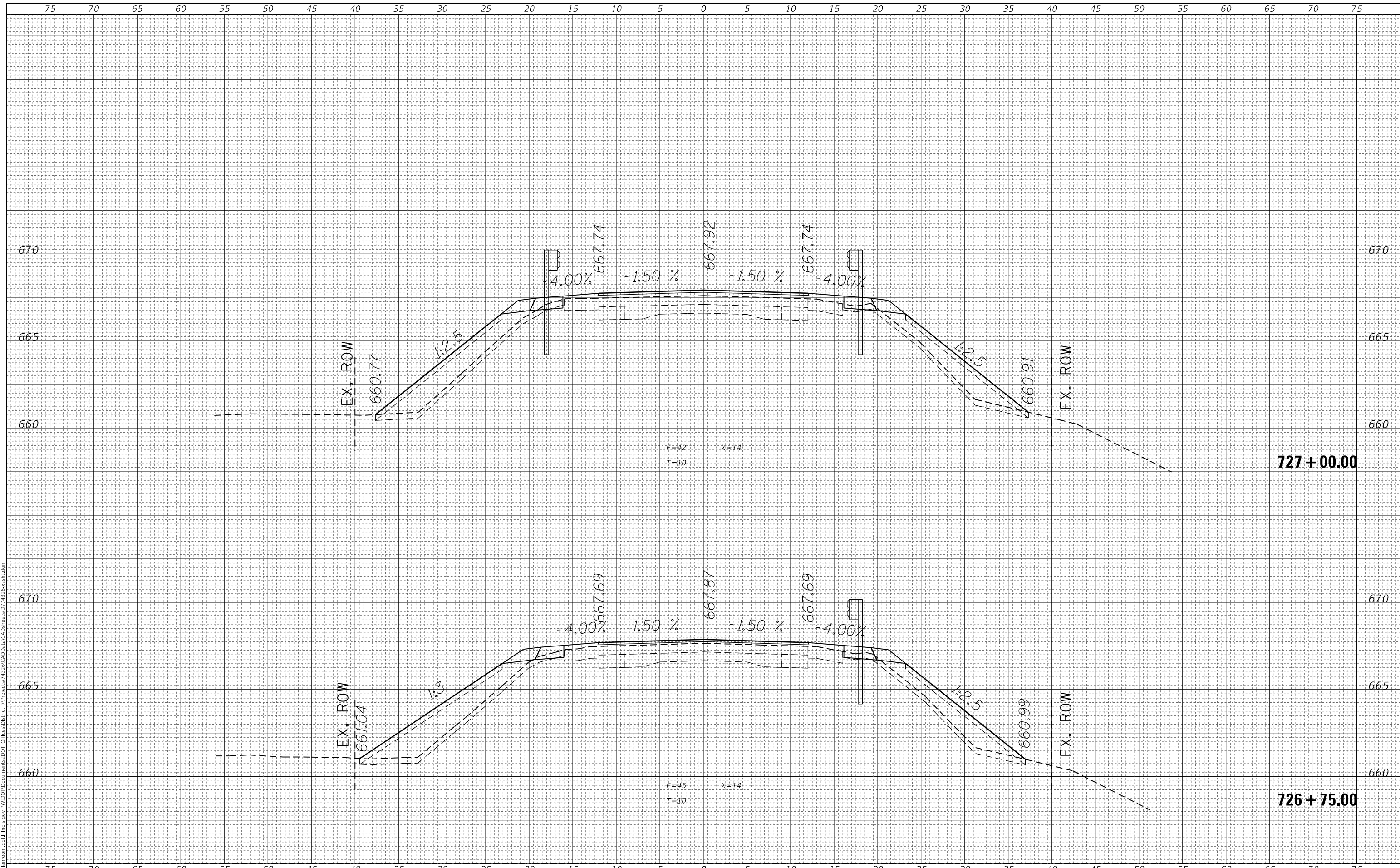
SCALE: SHEET 2 OF 11 SHEETS STA. 726+25.00 TO STA. 726+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	115BR-1	MOULTRIE	44	35
			CONTRACT NO. 74326	
		ILLINOIS	FED. AID PROJECT	

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

DATE	
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SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
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USER NAME = stefenmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 8/19/2020	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

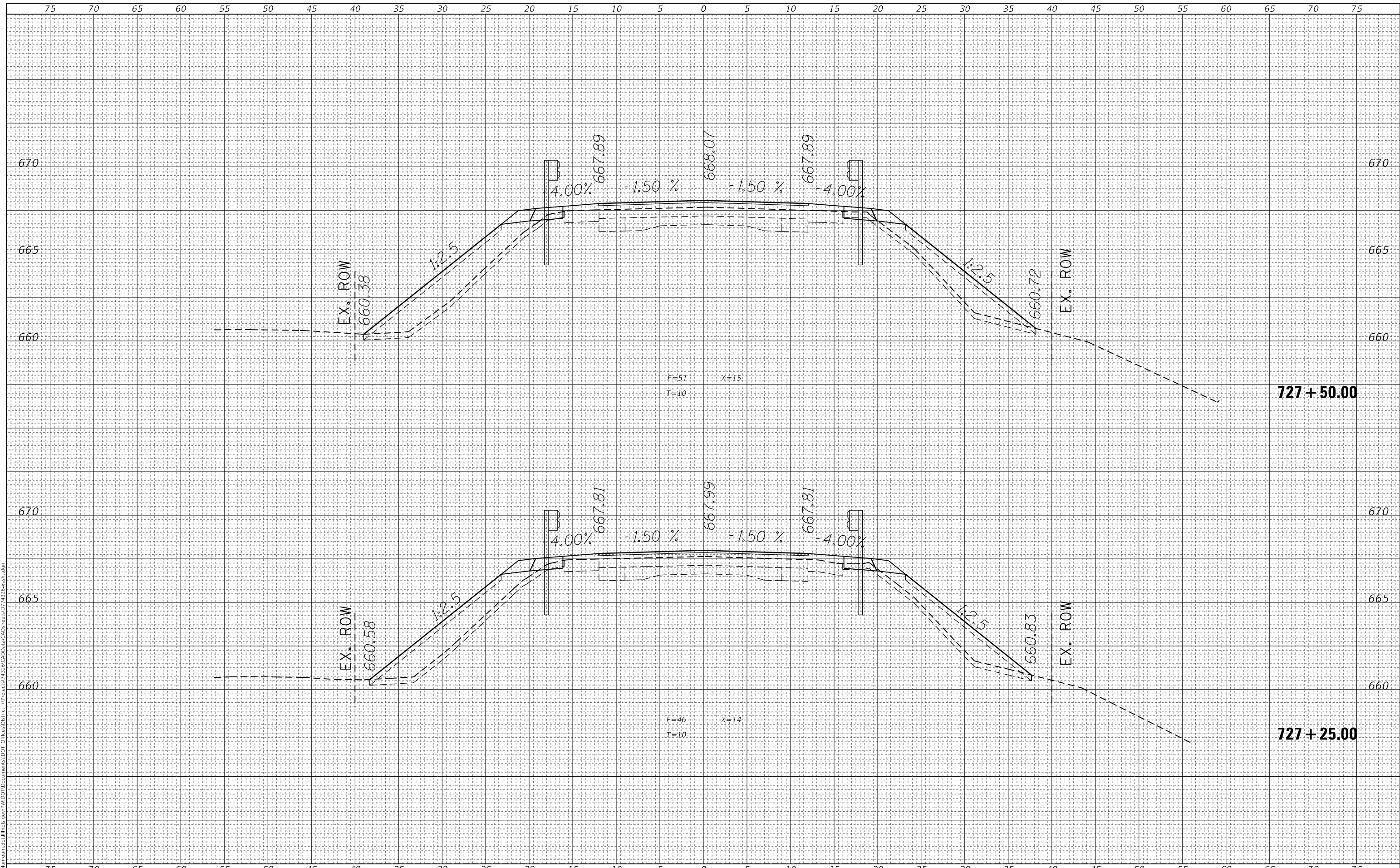
SCALE: SHEET 3 OF 11 SHEETS STA. 726+75.00 TO STA. 727+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	115BR-1	MOULTRIE	44	36
			CONTRACT NO. 74326	
		ILLINOIS	FED. AID PROJECT	

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

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	DRAWN -	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 8/19/2020	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

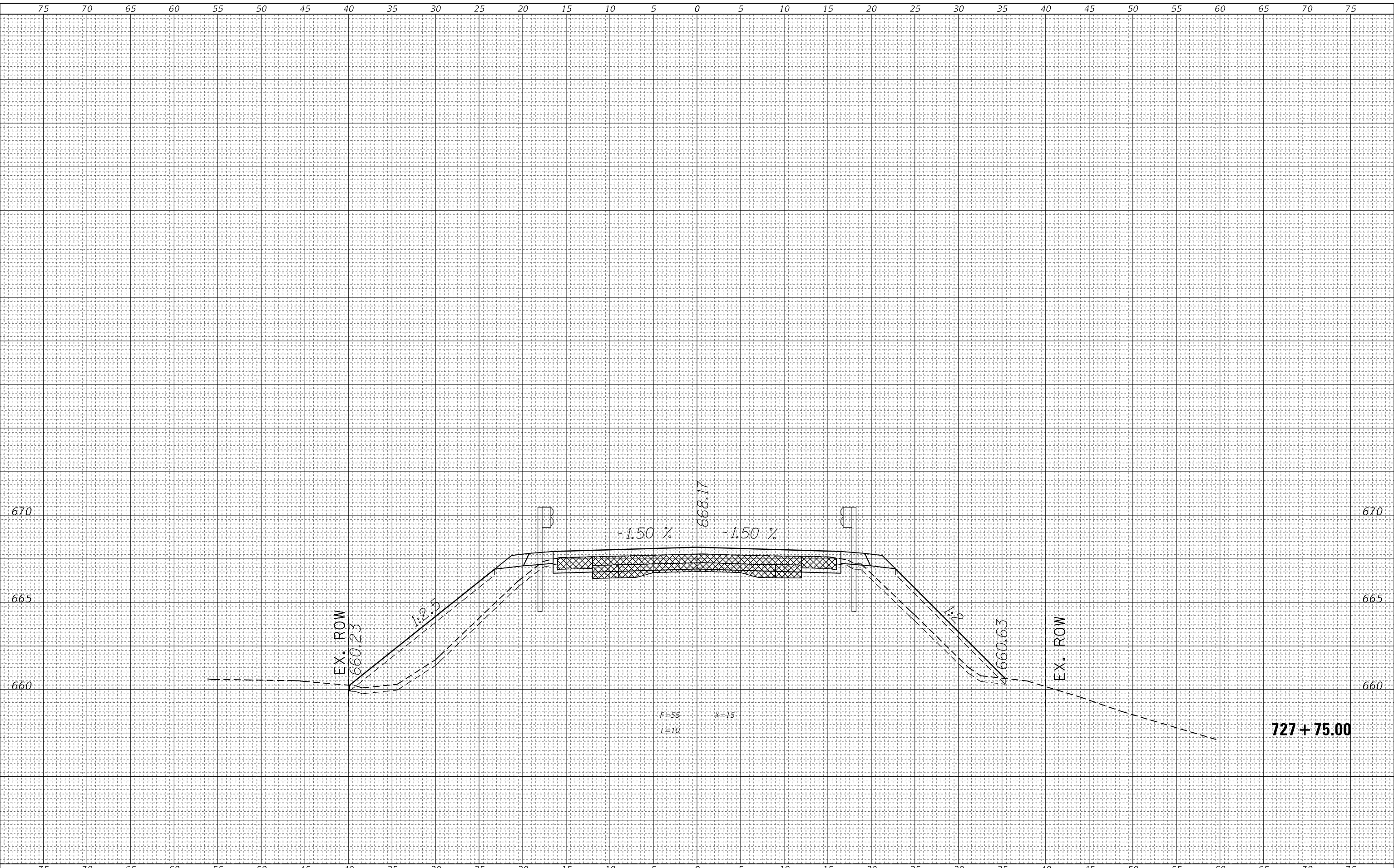
SCALE: SHEET 4 OF 11 SHEETS STA. 727+25.00 TO STA. 727+50.00

F.A.P. RTE. 770	SECTION 115BR-1	COUNTY MOULTRIE	TOTAL SHEETS 44	SHEET NO. 37
			CONTRACT NO. 74326	
ILLINOIS FED. AID PROJECT				

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

ORIGINAL SURVEY NO.	SURVEYED	DATE
	PLOTTED	
	TEMPLATE	
	AREAS CHECKED	

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USER NAME = stefenmk
PLOT SCALE = 10.0000' / in.
PLOT DATE = 8/19/2020

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

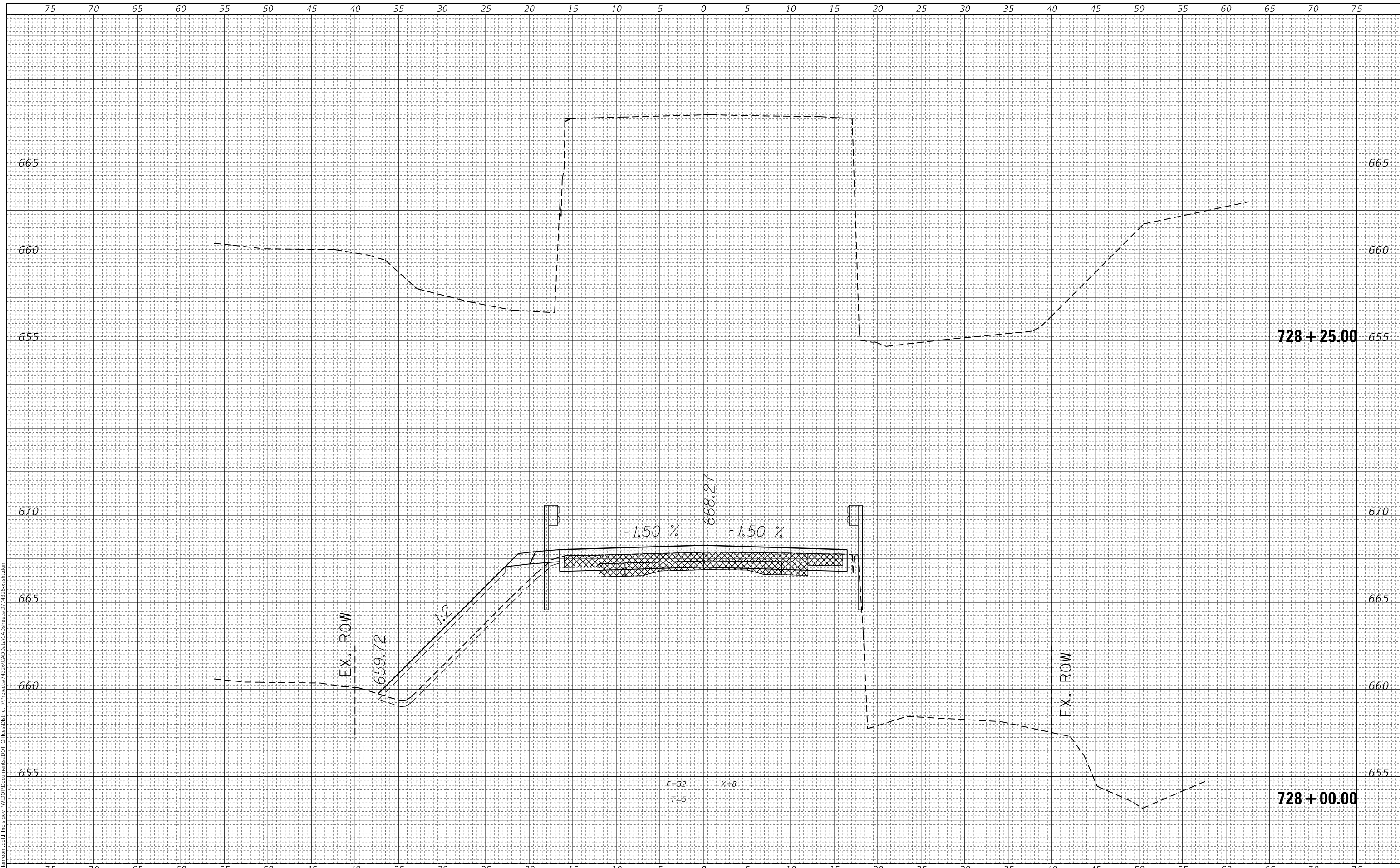
SCALE: SHEET 5 OF 11 SHEETS STA. 727+75.00 TO STA. 727+75.00

F.A.P. RTE. 770	SECTION 115BR-1	COUNTY MOULTRIE	TOTAL SHEETS 44	SHEET NO. 38
			CONTRACT NO. 74326	
		ILLINOIS FED. AID PROJECT		

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

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

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USER NAME = stefenmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 8/19/2020	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

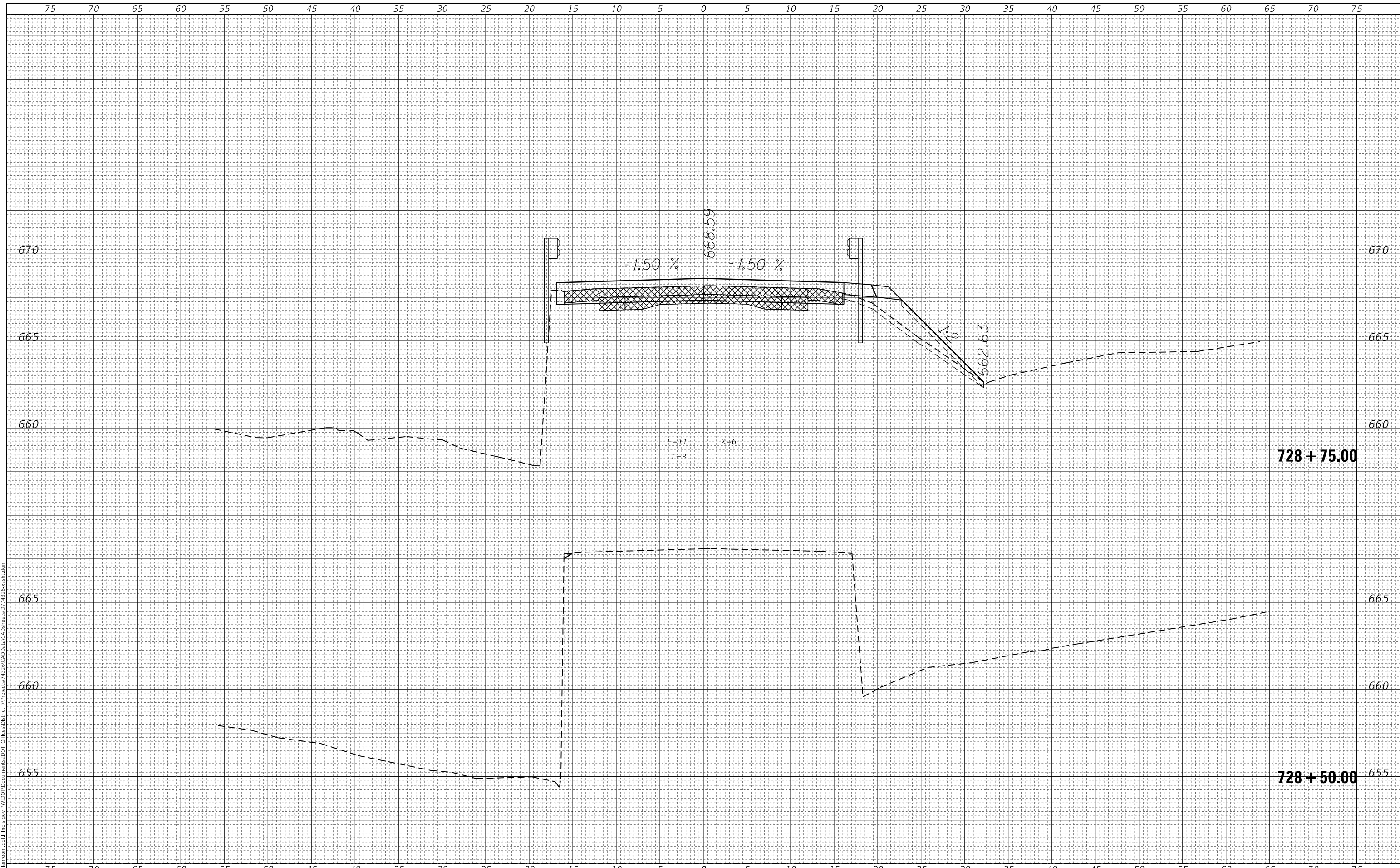
SCALE: SHEET 6 OF 11 SHEETS STA. 728+00.00 TO STA. 728+25.00

F.A.P. RTE. 770	SECTION 115BR-1	COUNTY MOULTRIE	TOTAL SHEETS 44	SHEET NO. 39
			CONTRACT NO. 74326	
ILLINOIS FED. AID PROJECT				

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

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

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USER NAME = stefenmk
PLOT SCALE = 10,0000 ' / in.
PLOT DATE = 8/19/2020

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

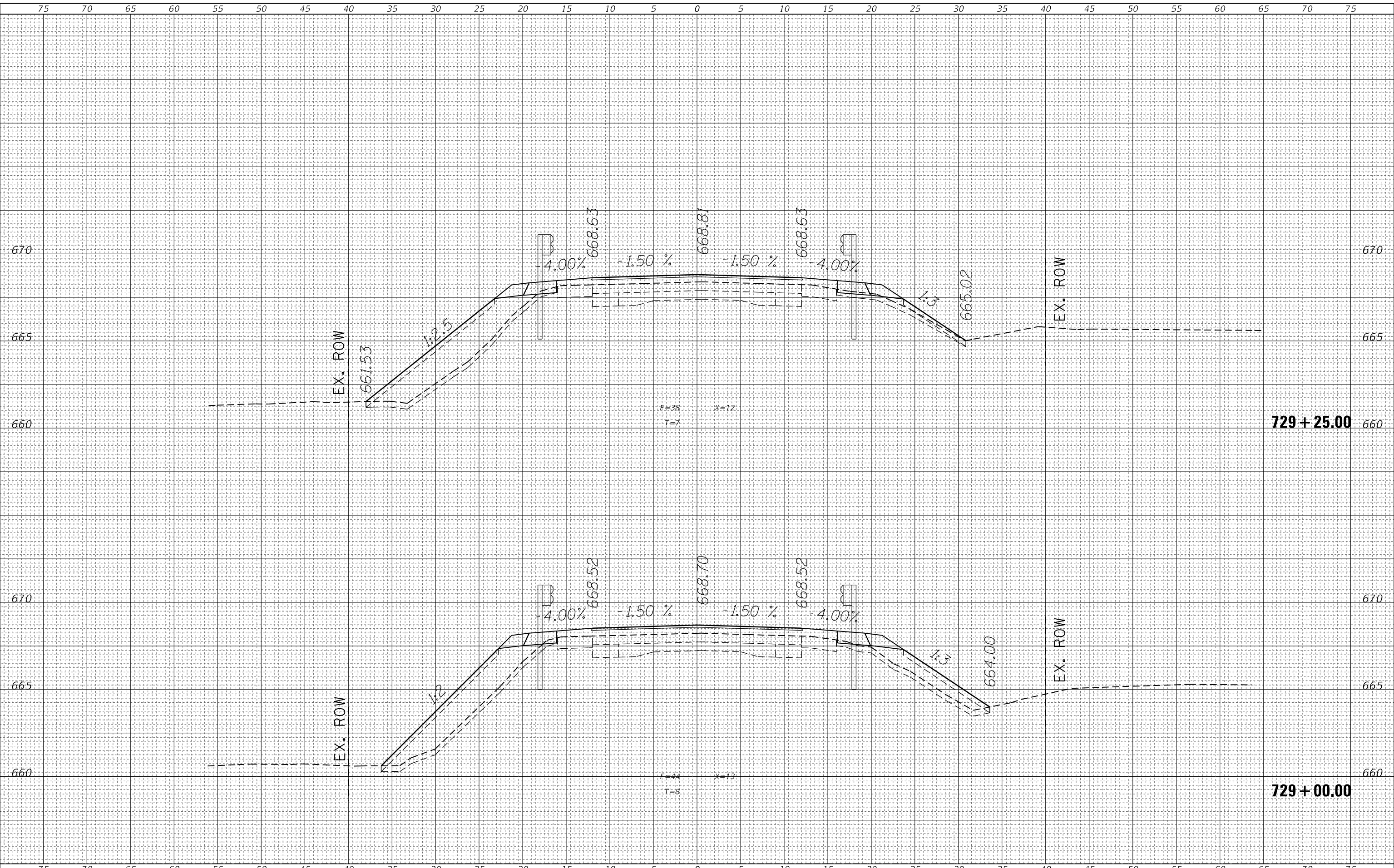
SCALE: SHEET 7 OF 11 SHEETS STA. 728+50.00 TO STA. 728+75.00

F.A.P. RTE. 770	SECTION 115BR-1	COUNTY MOULTRIE	TOTAL SHEETS 44	SHEET NO. 40
			CONTRACT NO. 74326	
		ILLINOIS FED. AID PROJECT		

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

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

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USER NAME = stefenmk
PLOT SCALE = 10.0000' / in.
PLOT DATE = 8/19/2020

DESIGNED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

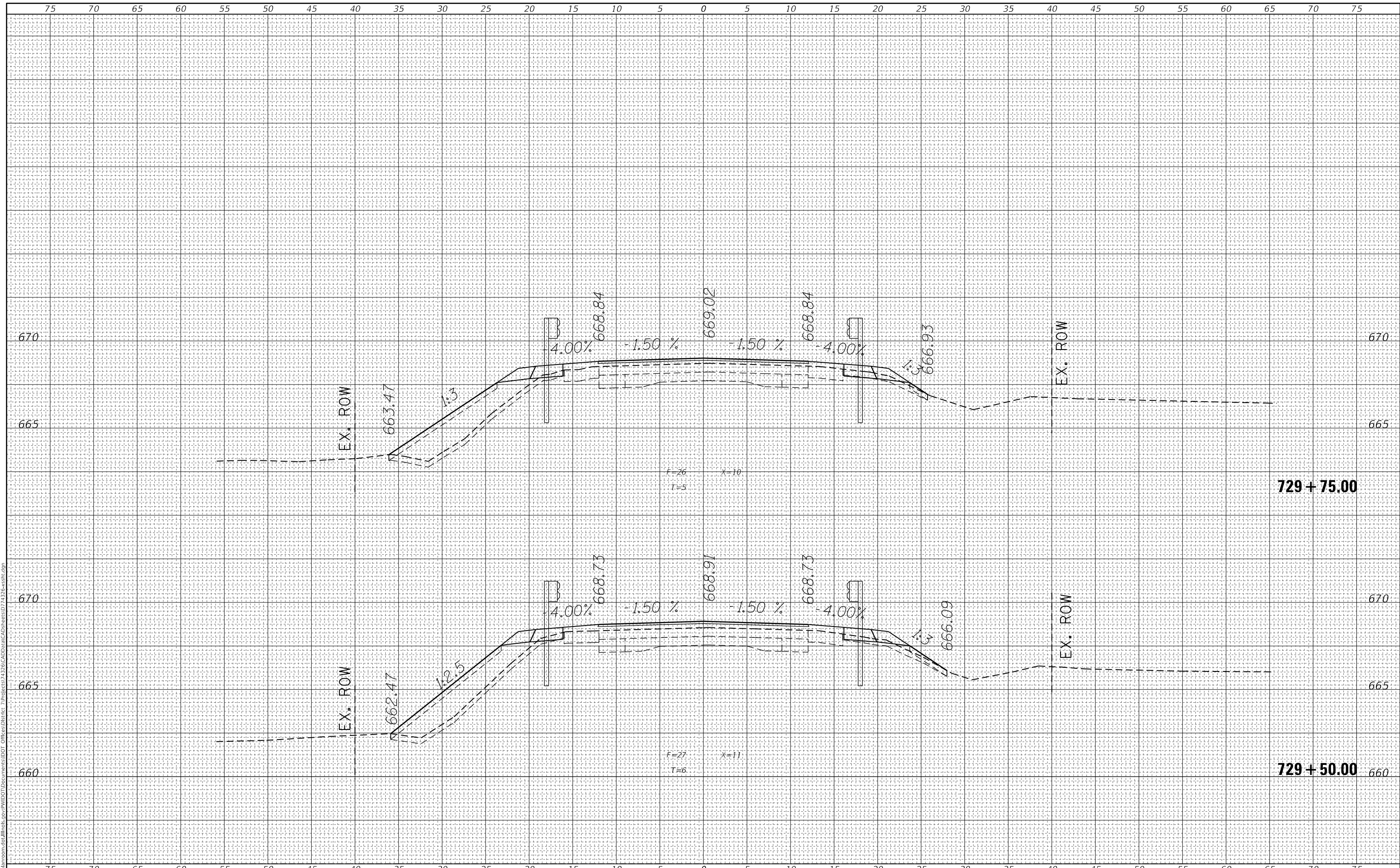
SCALE: SHEET 8 OF 11 SHEETS STA. 729+00.00 TO STA. 729+25.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	115BR-1	MOULTRIE	44	41
CONTRACT NO. 74326			ILLINOIS FED. AID PROJECT	

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

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

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USER NAME = steffnmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 8/19/2020	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

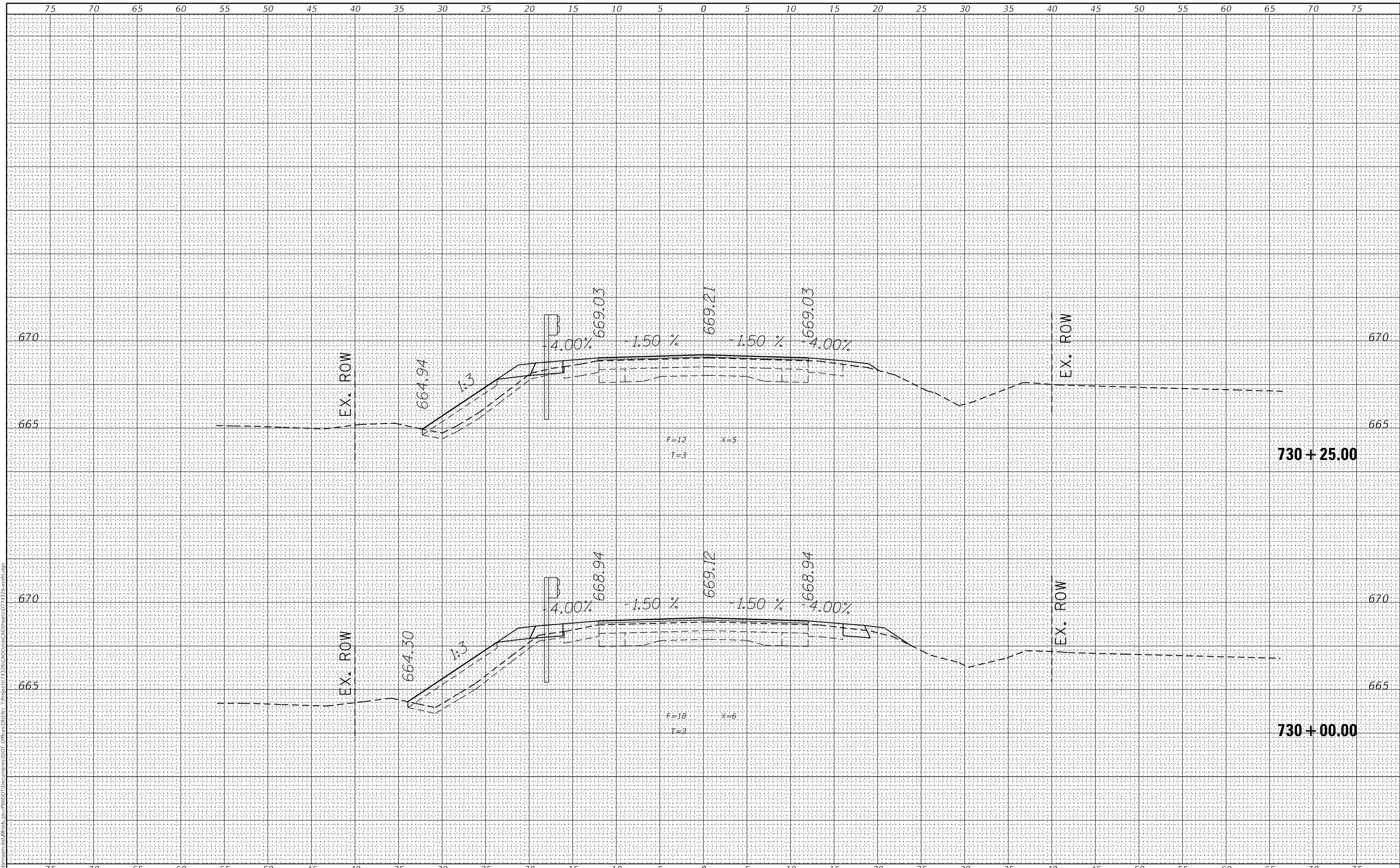
SCALE: SHEET 9 OF 11 SHEETS STA. 729+50.00 TO STA. 729+75.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	115BR-1	MOULTRIE	44	42
			CONTRACT NO. 74326	
		ILLINOIS	FED. AID PROJECT	

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

ORIGINAL SURVEY NO.	SURVEYED	DATE
	PLOTTED	
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	AREAS CHECKED	

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USER NAME = stefenmk	DESIGNED -	REVISED -
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PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 8/19/2020	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

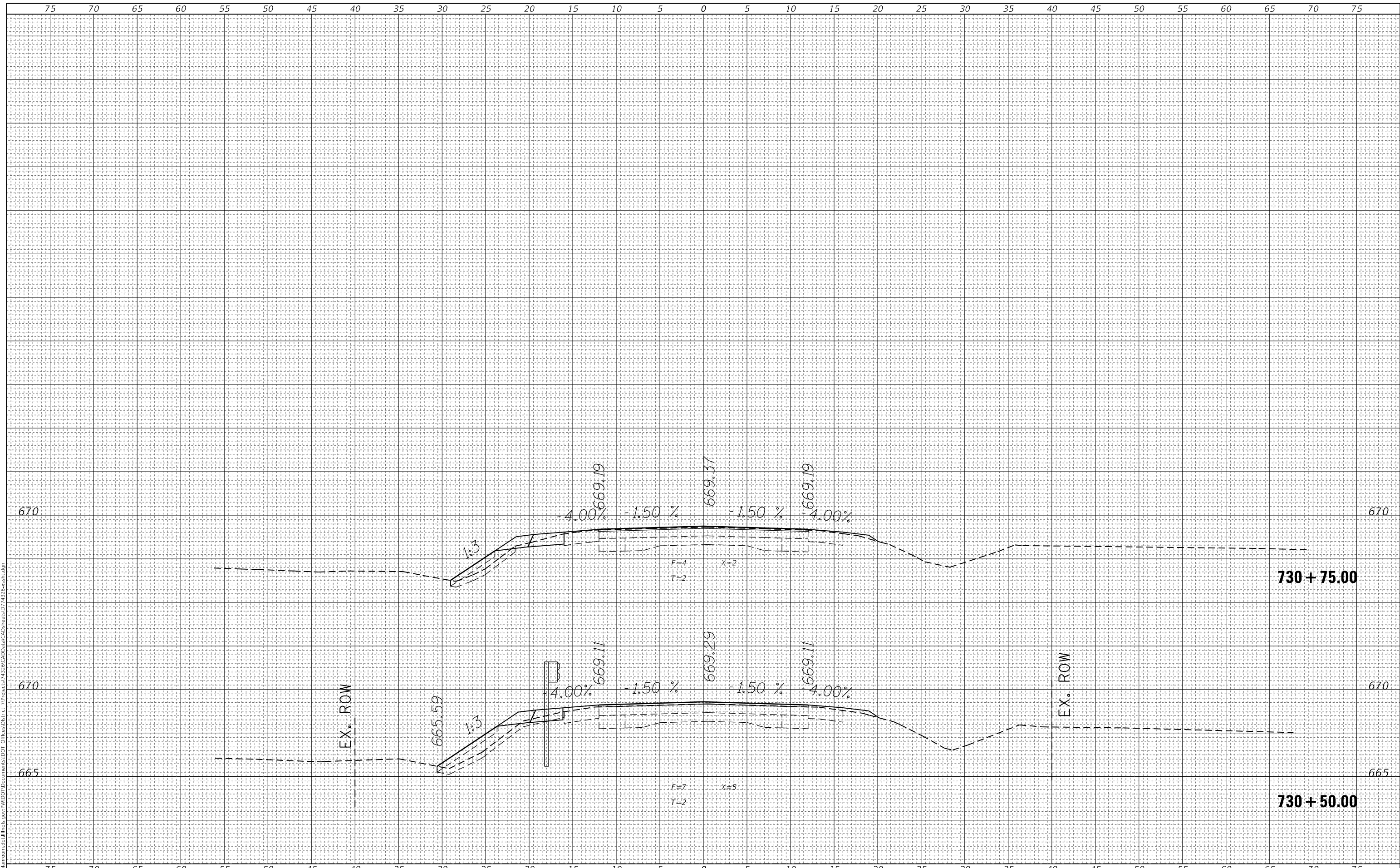
SCALE: SHEET 10 OF 11 SHEETS STA. 730+00.00 TO STA. 730+25.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	115BR-1	MOULTRIE	44	43
				CONTRACT NO. 74326
		ILLINOIS	FED. AID PROJECT	

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

ORIGINAL SURVEY NO.	SURVEYED	DATE
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	AREAS CHECKED	

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USER NAME = stefenmk	DESIGNED -	REVISD -
	DRAWN -	REVISD -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISD -
PLOT DATE = 8/19/2020	DATE -	REVISD -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

SCALE: SHEET 11 OF 11 SHEETS STA. 730+50.00 TO STA. 730+75.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	115BR-1	MOULTRIE	44	44
				CONTRACT NO. 74326
		ILLINOIS	FED. AID PROJECT	