



GENERAL NOTES

THIS PROJECT IS LOCATED ON FAP 770 (ILL 128) IN MOULTRIE COUNTY.

THE WORK ON THIS PROJECT CONSISTS OF REMOVAL AND REPLACEMENT OF CONCRETE SUPERSTRUCTURE, NEW APPROACH PAVEMENTS, EARTH EXCAVATION, RIP RAP, HMA MILLING, HOT MIX ASPHALT PAVING, GUARDRAIL, PAVEMENT MARKING AND ALL OTHER WORK RELATED TO COMPLETE THIS SECTION. THIS WORK WILL UTILIZE A ROAD CLOSURE WITH A MARKED DETOUR.

PAINT PAVEMENT MARKING LINE - 4" SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS, AS SHOWN IN THE PLANS, AND AS DETERMINED BY THE ENGINEER. THE TOTAL QUANTITY CALCULATED CONSISTS OF 838 FEET.

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

THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS TO ANY DAMAGED UTILITIES AS A RESULT OF WORK IN THE AREA.

THE LOCATIONS AND/OR DEPTHS OF UNDERGROUND UTILITIES SHOWN HAVE BEEN TAKEN FROM INFORMATION FURNISHED BY THE UTILITY OWNERS AND MUST BE CONSIDERED APPROXIMATE. FIELD MARKINGS OF FACILITIES IN CRITICAL AREAS MAY BE OBTAINED BY PROVIDING A MINIMUM OF 48 HOURS ADVANCE NOTICE THROUGH THE J.U.L.I.E. SYSTEM BY CALLING 800-892-0123.

ALL EXCAVATION ABOVE THE BOTTOM OF THE RIPRAP EXCAVATION LINE SHALL BE INCLUDED IN THE COST OF STONE RIPRAP, CLASS A5 AND NO ADDITIONAL COMPENSATION WILL BE PERMITTED.

A TYPE I CAST IN PLACE PERMANENT SURVEY MARKER SHALL BE PLACED NEAR THE PROPOSED STRUCTURE. THE TABLET STYLE SHALL CONFORM TO STANDARD 667101-02. THE LOCATION OF THE SURVEY MARKER SHALL BE DETERMINED BY THE ENGINEER AND THE CHIEF OF SURVEYS. THE SURVEY MARKER LOCATION WILL ALSO BE CROSS TIED AND ELEVATED BY IDOT PERSONNEL.

THE CHANNEL EXCAVATION SHALL DONE WHERE ALL STONE RIPRAP, CLASS A5. THE DEPTH WILL BE 2.5 FEET THICK.

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

AGGREGATE SHOULDERS	2.05 TONS/CU. YD.
BITUMINOUS MATERIALS (PRIME COAT)	0.05 GAL./SQ. YD.
HOT-MIX ASPHALT	112 LBS./SQ. YD./INCH

INDEX OF SHEETS

SHEET NO.	ITEM
1	COVER SHEET
2	INDEX OF SHEETS & GENERAL NOTES
3-4	SUMMARY OF QUANTITIES
5	TYPICAL SECTIONS
6	SCHEDULES OF QUANTITIES
7-8	PLAN SHEETS
9	DETOUR ROUTE
10	GUARDRAIL DETAILS
11	CULVERT EXTENTION DETAILS
12	PLAN AND PROFILE
13-26	BRIDGE PLANS

THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED FOLLOWING SHEET NUMBER 25.

STD NO.	DESCRIPTION
000001-08	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420406	BRIDGE APPROACH PAVEMENT CONNECTOR
515001-04	NAME PLATE FOR BRIDGES
542001-06	CONCRETE END SECTIONS FOR PIPE CULVERTS 15" (375MM) THRU 84" (2100 MM) DIA.
630001-12	STEEL PLATE BEAM GUARDRAIL
630201-07	PCC/BITUMINOUS STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631032-09	TRAFFIC BARRIER TERMINAL, TYPE 6A
667101-02	PERMANENT SURVEY MARKERS
701001-02	OFF ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF ROAD OPERATIONS, 2L, 2W, 15' TO EDGE OF PAVEMENT
701011-04	OFF ROAD MOVING OPERATIONS-2L, 2W-DAY ONLY
701201-05	LANE CLOSURE 2L2W- DAY ONLY
701301-04	LANE CLOSURE - SHORT TERM OPERATIONS
701311-03	LANE CLOSURE - MOVING OPERATIONS - DAY ONLY
701901-08	TRAFFIC CONTROL DEVICES
720011-01	METAL POSTS FOR SIGNS MARKERS AND DELINEATORS
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
BLR21-9	TYPICAL APP. TRAF. CONTROL DEVICES- CONSTRUCTION ON RURAL LOCAL HWYS
420001-10	PAVEMENT JOINTS
631011-10	TRAFFIC BARRIER TERMINAL, TYPE 2
668001-01	U.S. GEOLOGICAL SURVEY AND NATIONAL GEODETIC SURVEY BENCHMARKS, RESETING METHOD
729001-01	APPLICATIONS OF TYPE A AND B METAL POSTS (FOR SIGNS AND MARKERS)
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

APPLICATION	AC/PG	DESIGN AIR VOIDS	MIXTURE COMPOSITION	FRICTION AGGREGATE	QUALITY MANAGEMENT
FLEXIBLE CONNECTOR (TOP LIFT)	PG 64-22	4.0% @ N=70	1L - 9.5	MIXTURE C	QC/QA
FLEXIBLE CONNECTOR (BOTTOM LIFTS)	PG 64-22	4.0% @ N=70	1L - 19.0	N/A	QC/QA
HMA SURFACE COURSE, MIX "C", 1L -9.5	PG 64-22	4.0% @ N=70	1L - 9.5	MIXTURE C	QC/QA
INCIDENTAL HMA SURFACE COURSE	PG 64-22	4.0% @ N=70	1L - 9.5	MIXTURE C	QC/QA

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DRAWN -	REVISED -	770					(116BR-2)B-1	MOULTRIE	26	2	
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -		SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.			CONTRACT NO. 74434				
PLOT DATE = 12/15/2021	DATE -	REVISED -					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		
20300100	CHANNEL EXCAVATION	CU YD	657	657		
28100109	STONE RIPRAP, CLASS A5	SQ YD	525	525		
28200200	FILTER FABRIC	SQ YD	525	525		
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	495	495		
40604052	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	TON	92	92		
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	12	12		
42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	SQ YD	192	192		
44000100	PAVEMENT REMOVAL	SQ YD	46	46		
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	1100	1100		
44004250	PAVED SHOULDER REMOVAL	SQ YD	58	58		
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	28	28		
50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1	1		
50102400	CONCRETE REMOVAL	CU YD	3.2	3.2		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0013		
50105220	PIPE CULVERT REMOVAL	FOOT	12	12		
50300225	CONCRETE STRUCTURES	CU YD	28.8	28.8		
50300255	CONCRETE SUPERSTRUCTURE	CU YD	83.9	83.9		
50300260	BRIDGE DECK GROOVING	SQ YD	340	340		
50300300	PROTECTIVE COAT	SQ YD	362	362		
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	92.8	92.8		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	67390	67390		
50901050	STEEL RAILING, TYPE SM	FOOT	122	122		
51500100	NAME PLATES	EACH	1	1		
54002020	EXPANSION BOLTS 3/4 INCH	EACH	8	8		
54213459	END SECTIONS 24"	EACH	1	1		
54248510	CONCRETE COLLAR	CU YD	0.4	0.4		
542D0229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	12	12		
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	212.5	212.5		
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1	1		

\* SPECIALTY ITEM

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE. 770	SECTION (116BR-2)B-1	COUNTY MOULTRIE	TOTAL SHEETS 26	SHEET NO. 3
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74434	

80% FED  
20% STATE

80% FED  
20% STATE

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0013		
* 6310087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	3	3		
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	3	3		
63200310	GUARDRAIL REMOVAL	FOOT	427	427		
66700205	PERMANENT SURVEY MARKERS, TYPE I	EACH	1	1		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6		
67100100	MOBILIZATION	L SUM	1	1		
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1		
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28	28		
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	3	3		
* 72501100	TERMINAL MARKER - POST MOUNTED	EACH	1	1		
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	838	838		
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	4	4		
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	9	9		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0013		
X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.3	0.3		
* X6330725	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	FOOT	12.5	12.5		
X7011800	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1	1		
Z0004552	APPROACH SLAB REMOVAL	SO YD	289	289		
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SO FT	55	55		
Z0016702	DETOUR SIGNING	L SUM	1	1		
40600370	LONGITUDINAL JOINT SEALANT	FOOT	301	301		
Z0049799	PROTECTING OR RESETTING SURVEY MARKERS	EACH	3	3		
Z0070202	SURVEY MARKER VAULT	EACH	3	3		
Z0073700	TEMPORARY WALL BRACING SYSTEM	L SUM	1	1		

\* SPECIALTY ITEM

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	(116BR-2)B-1	MOULTRIE	26	4
CONTRACT NO. 74434			ILLINOIS FED. AID PROJECT	





STATION	TO	STATION	LENGTH	AVERAGE PAVEMENT & SHOULDER WIDTH	AREA	BITUMINOUS MATERIALS (TACK COAT) 40600290	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70 40604052	HOT-MIX ASPHALT SURFACE REMOVAL, 1.5" 44000155	AGGREGATE WEDGE SHOULDER TYPE B 48102100	LONGITUDINAL JOINT SEALANT 40600370	INCIDENTAL HMA SURFACING 40800050
			FOOT	FOOT	SQ YD	POUND	TON	SQ YD	TON	FOOT	TON
948+75.00	TO	950+25.00	150.0	33.0	550.0	247.5	46.2	550.0	14.2	150.0	0.0
950+25.00	TO	951+76.00	OMISSION								0.0
951+76.00	TO	953+26.00	150.0	33.0	550.0	247.5	46.2	550.0	14.2	150.0	0.0
Crosson Road											12
TOTALS					1100	495	92	1100	28	300	12

STATION	TO	STATION	LENGTH	PAINT PAVEMENT MARKING - LINE - 4" 78001110	RAISED REFLECTIVE PAVEMENT MARKER 78100100
			FOOT	FOOT	EACH
949+00.00	TO	950+51.00	151.0	339.8	2
950+51.00	TO	951+50.00	99.0	222.8	0
951+50.00	TO	953+00.00	150.0	337.5	2
E. CROSS ROAD				62	
TOTALS				838.0	4

LOCATION	GUARDRAIL REMOVAL 63200310	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT) 63100167	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS 63000001	TRAFFIC BARRIER TERMINAL, TYPE 6A 63100087	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS) X6330725	GUARDRAIL REFLECTORS, TYPE A 78200005	TERMINAL MARKERS - DIRECT APPLIED 72501000	TRAFFIC BARRIER TERMINAL, TYPE 2 63100045
	FOOT	EACH	FOOT	EACH	FOOT	EACH	EACH	EACH
NORTHEAST CORNER	87.0	1.0	0.0	1.0			1.0	
SOUTHEAST CORNER	150.0	1.0	100.0	1.0			1.0	
NORTHWEST CORNER	151.0	1.0	100.0	1.0			1.0	
SOUTHWEST CORNER	39.0		12.5		12.5			1.0
LEFT SIDE						4.0		
RIGHT SIDE						5.0		
TOTALS=	427.0	3.0	212.5	3.0	12.5	9.0	3.0	1.0

LOCATION		PIPE CULVERT REMOVAL 50105220	EXPANSION BOLTS 54002020	REINFORCEMENT BARS, EPOXY COATED 50800205	PIPE CULVERTS, CLASS D, TYPE 1 24" 54200229	END SECTIONS 24" 54213459	CONCRETE COLLAR 54248510
STA.	LT.	FOOT	EACH	POUNDS	FOOT	EACH	CU YD
950+78	56.6	12	8	24	5	1	0.3

Pt. #	STA	OFFSET	DESCRIPTION	Protect & Preserve Recommendation	Vault	Disk (Typ 1)
1032	949+97.75	5.3' Rt	Square Vault in Concrete. SW Cor Sec 7-14-4 (See Monument Records)	Protect Disk and Install New Vault	1	
1947	950+97.47	23.71 Lt	IDOT Control Monument	Protect if possible	X	X
1044	951+95.6	5.0' Rt	Square Vault in Concrete. SE Cor Sec 12-14-3 (See Monument Records)	Protect Disk and Install New Vault	1	
			Install New IDOT Disk in Headwall or Abutment during construction. Location to be determined by the Resident Engineer			1

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Item	Unit	Total
Approach Slab Removal	SQ YD	289
Paved Shoulder Removal	SQ YD	58
Pavement Removal	SQ YD	46

PIPE CULVERT REMOVAL  
AND REPLACEMENT, 12'

STA. 950+25.3

5.5' Guardrail Radius

STA. 951+76.1

IL-128

950+00

951

952

IL-128

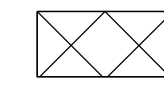
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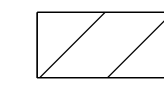
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STA. 950+31.5

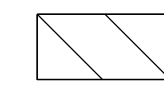
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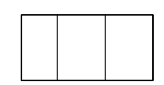
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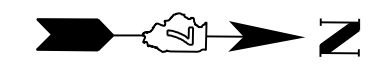
PAVED SHOULDER REMOVAL



PAVEMENT REMOVAL



MILLING HMA SURFACE 1.5"  
HMA SURF. CSE, MIX N70 1.5"



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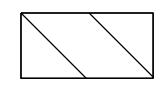
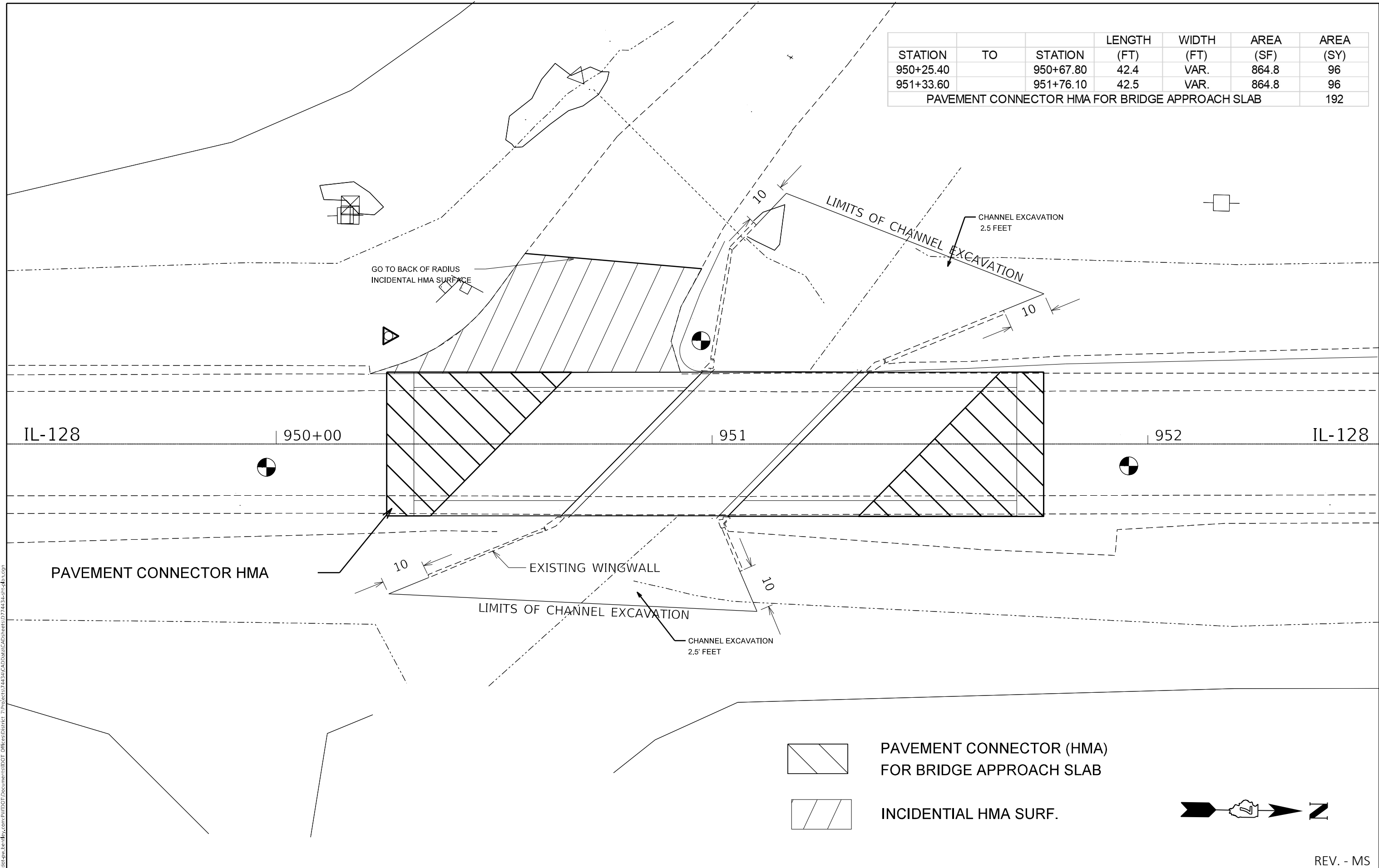
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PLAN SHEET

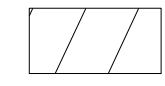
SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	(116BR-2)B-1	MOULTRIE	26	7
CONTRACT NO. 74434			ILLINOIS FED. AID PROJECT	

STATION	TO	STATION	LENGTH (FT)	WIDTH (FT)	AREA (SF)	AREA (SY)
950+25.40		950+67.80	42.4	VAR.	864.8	96
951+33.60		951+76.10	42.5	VAR.	864.8	96
PAVEMENT CONNECTOR HMA FOR BRIDGE APPROACH SLAB						192



PAVEMENT CONNECTOR (HMA)  
FOR BRIDGE APPROACH SLAB



INCIDENTAL HMA SURF.



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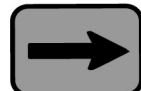






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DEPARTMENT OF TRANSPORTATION**

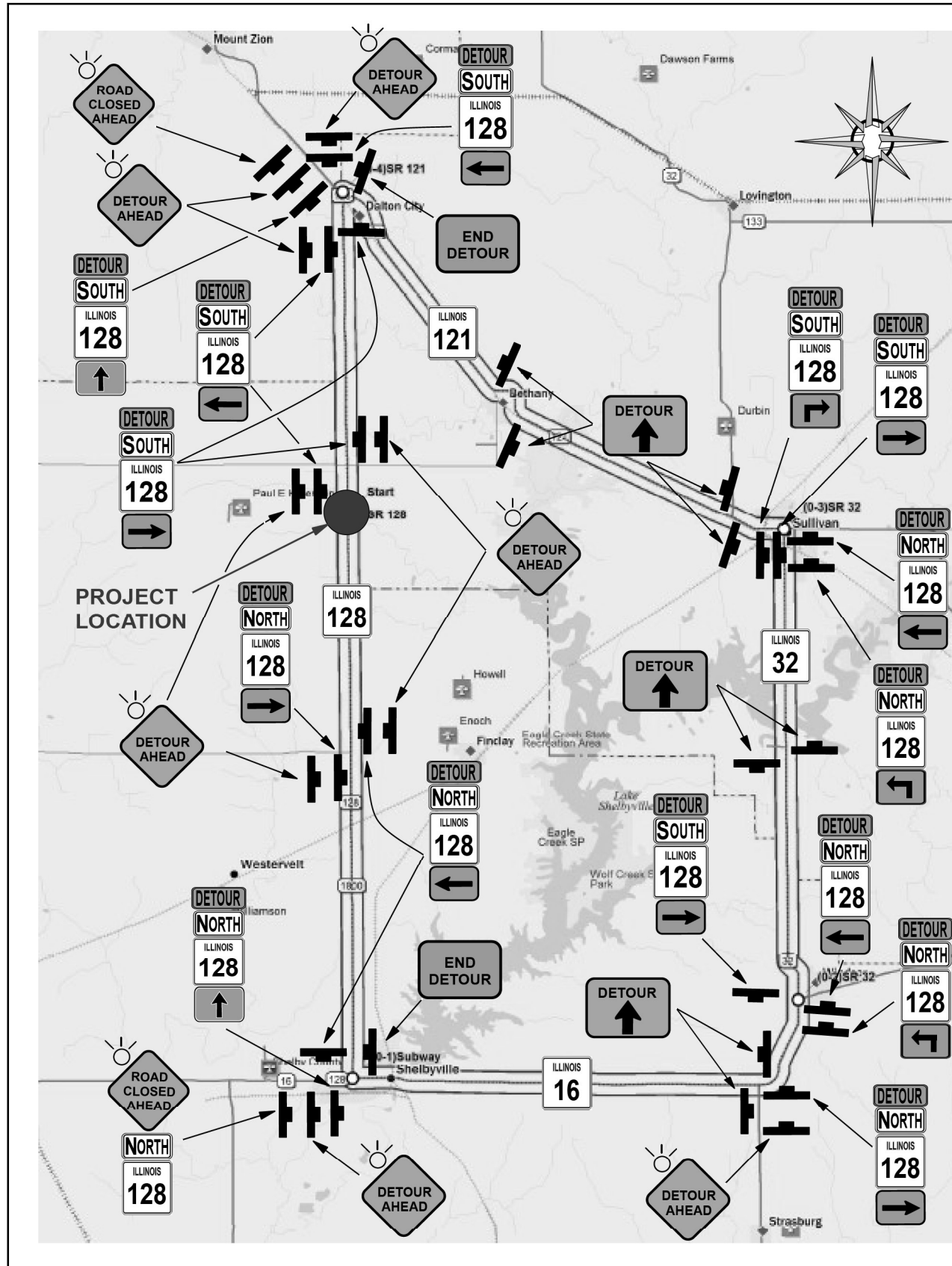
**PLAN SHEET**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	(116BR-2)B-1	MOULTRIE	26	8
CONTRACT NO. 74434			ILLINOIS FED. AID PROJECT	

### SIGN LEGEND

 ROAD CLOSED AHEAD W20-3(O)-48	 DETOUR AHEAD W20-2(O)-48
 DETOUR M4-9(O)-3024	 END DETOUR M4-8a(O)-3024
 DETOUR M4-8-2412	 M6-3(O)-3018
 M6-1L(O)-3018	 M6-1R(O)-3018
 M5-1L(O)-3018	 M5-1R(O)-3018
 NORTH M3-1-3015	 SOUTH M3-3-3015
 ILLINOIS 128 M1-100-3024	 Flashing Light



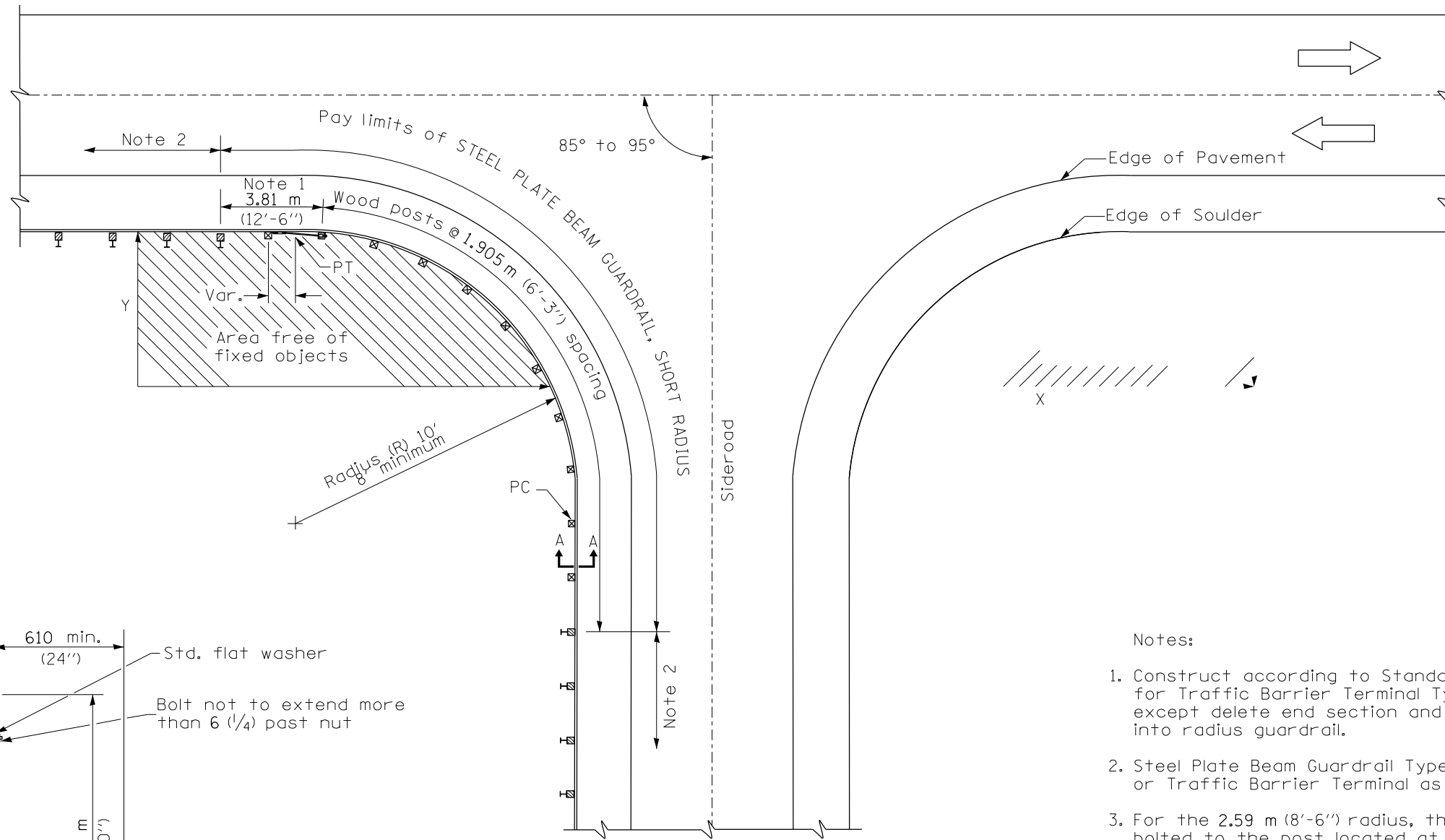
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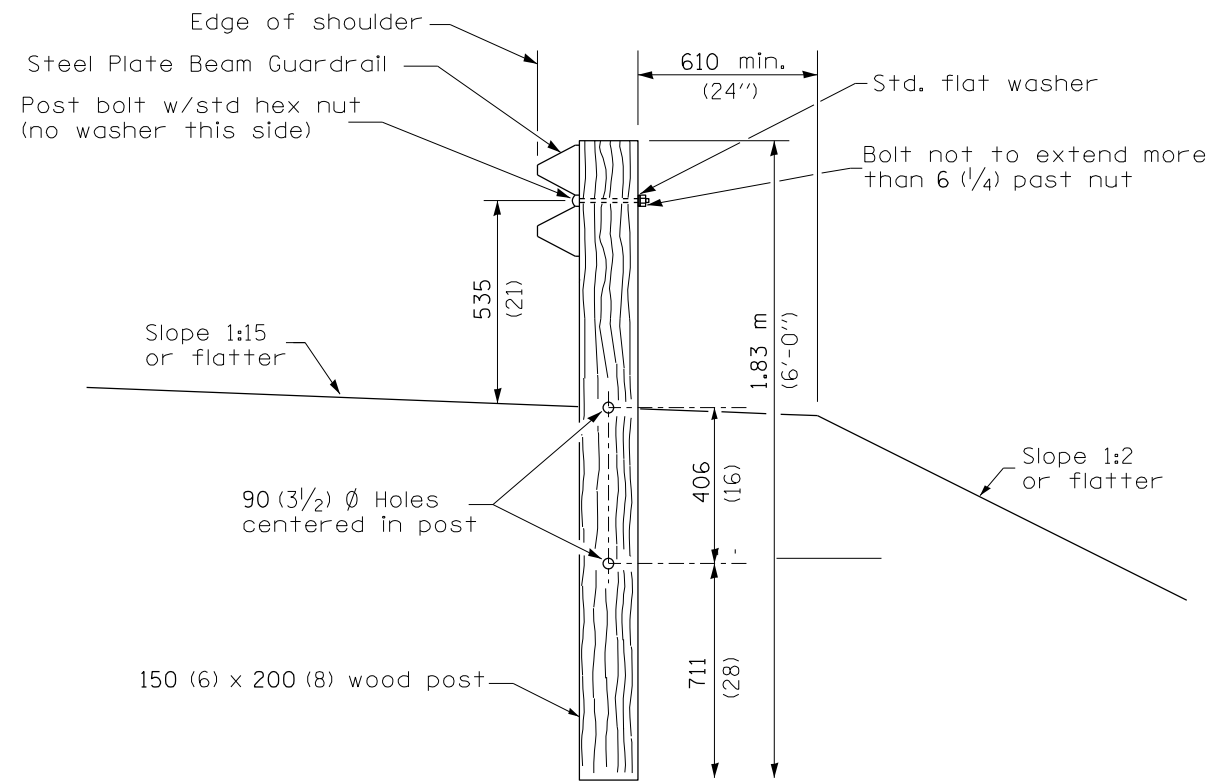
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DEPARTMENT OF TRANSPORTATION

SCALE:		SHEET OF SHEETS		STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	(116BR-2)B-1	MOULTRIE	26	9
CONTRACT NO. 74434				
ILLINOIS FED. AID PROJECT				



PLAN



SECTION A-A

Notes:

1. Construct according to Standard 631011 for Traffic Barrier Terminal Type 2, except delete end section and splice into radius guardrail.
2. Steel Plate Beam Guardrail Type A, Type B, or Traffic Barrier Terminal as specified.
3. For the 2.59 m (8'-6") radius, the rail is not bolted to the post located at the midpoint of the curve.

GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

All dimensions are in millimeters (inches) unless otherwise shown.

**STEEL PLATE BEAM GUARDRAIL, SHORT RADIUS**

BDE Memo 36-03 Attachment A

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GUARDRAIL SOUTHWEST  
CORNER DETAIL**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	(116BR-2)B-1	MOULTRIE	26	10
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74434	

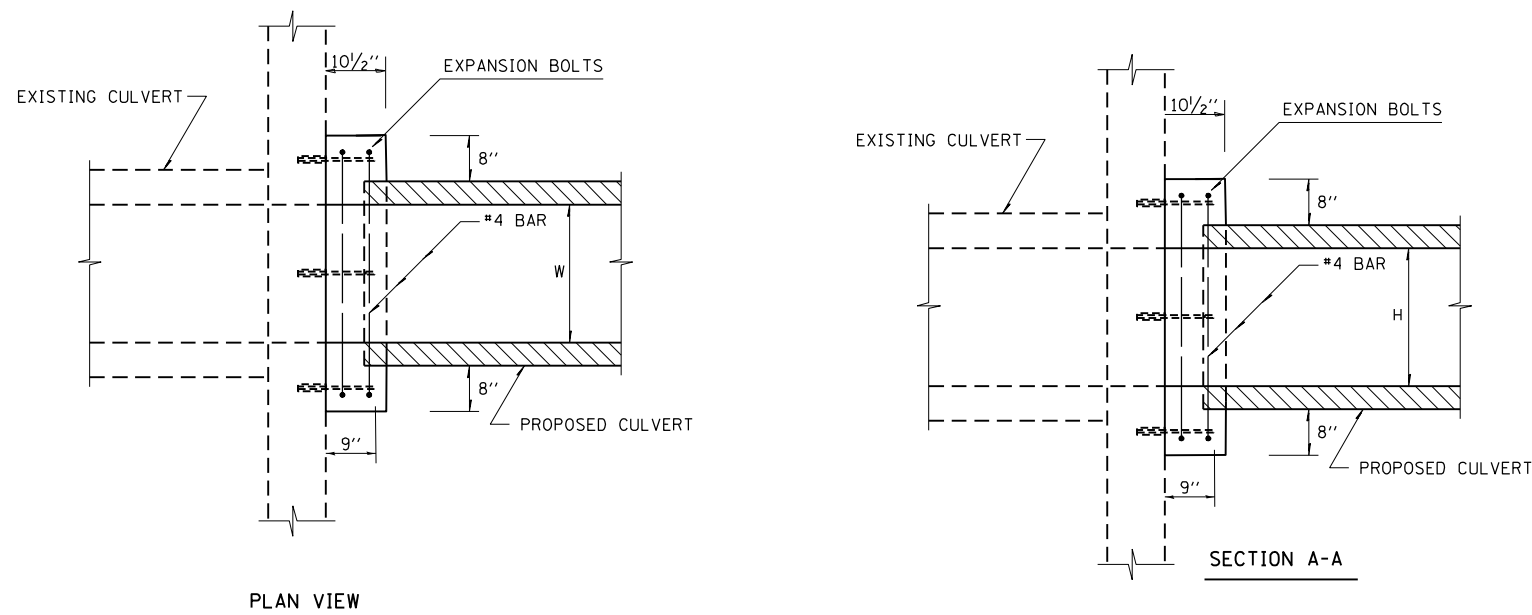
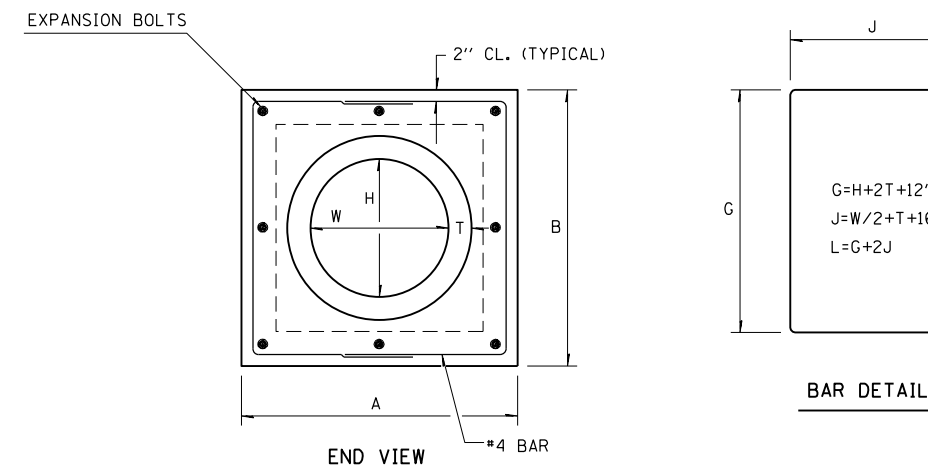
CULVERT EXTENSION SCHEDULE

LOCATION		DIMENSIONS						REINFORCEMENT BARS					PIPE CULVERTS 30"		CONC. COLLAR
		A	B	C	W	H	T	G	J	L	EXPAN. BOLTS	LENGTH	END SECTIONS		
SIDE	STATION	IN	IN	IN	IN	IN	IN	IN	IN	IN	POUNDS	EACH	FT.	EACH	C. Y.
LT.	950+78	48	48		24	24	4.0	44	32	108	24	8	26	1	0.3

REMOVE CONCRETE BOX CULVERT END SECTION	
LT STA	EACH

NOTE: SAVE EXISTING EXPANSION BOLTS AND INCORPORATE INTO NEW COLLAR IF POSSIBLE

DETAIL OF CONCRETE COLLAR  
FOR BOX CULVERT EXTENSIONS



NOTE: EXPANSION BOLTS SHALL CONSIST OF SELF-DRILLING EXPANSION SHIELDS AND HOOKED BOLTS. HOOKED BOLTS SHALL EXTEND A MINIMUM OF 9" INTO THE NEW CONCRETE.

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USER NAME = steffnmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,1840' / in.	CHECKED -	REVISED -
PLOT DATE = 12/15/2021	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CULVERT DETAIL

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	(116BR-2)B-1	MOULTRIE	26	11
CONTRACT NO. 74434			ILLINOIS FED. AID PROJECT	



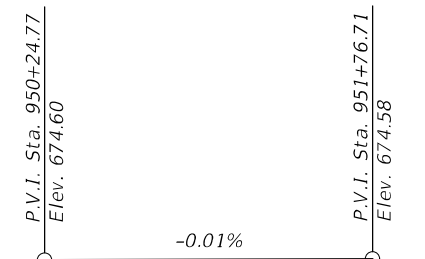
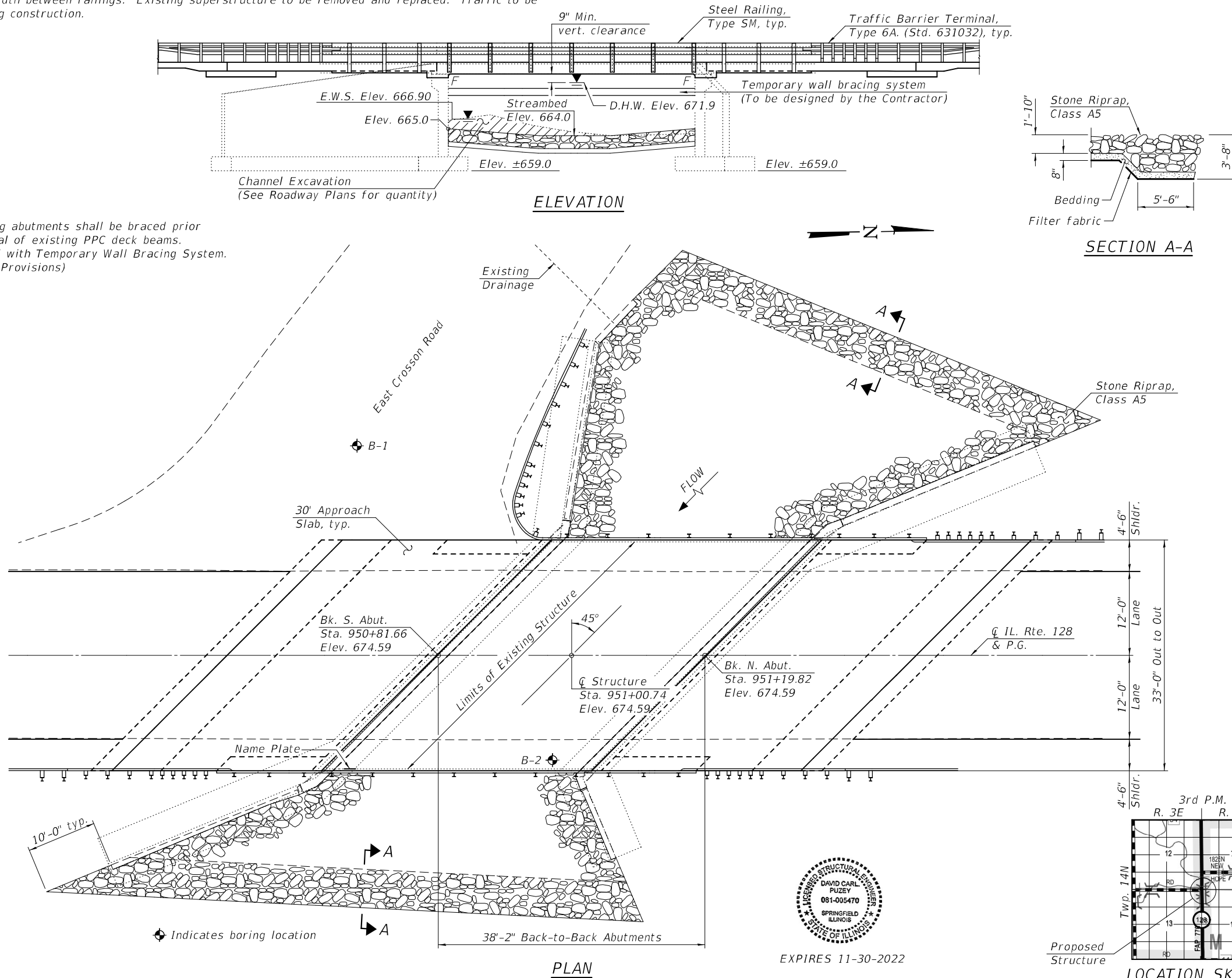


Benchmark: BM600 - IDOT disc in concrete, located between guardrail and wingwall near the Southwest corner of SN 070-0038  
 Sta. 951+08, 24' left of Centerline, Elevation 673.62.

Existing Structure: The existing structure 070-0038 was built in 1981 and consists of a PPC deck beam superstructure (11-17"x36") on closed reinforced concrete abutments supported by a conventional spread footing foundation system. The current configuration is a single span bridge with a 38'-2" total length (Bk. to Bk. abutments) with a 45 degree skew. The out to out superstructure width is 33'-0" with a 32'-6" face to face width between railings. Existing superstructure to be removed and replaced. Traffic to be detoured during construction.

No salvage.

Note:  
 The existing abutments shall be braced prior to the removal of existing PPC deck beams. Cost included with Temporary Wall Bracing System. (See Special Provisions)



**PROFILE GRADE**  
 (along IL. Rte. 128)

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

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

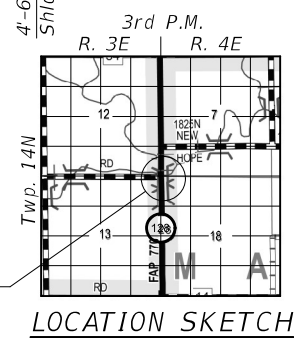
**DESIGN STRESSES**

**FIELD UNITS**  
 $f'_c = 3,500$  psi  
 $f'_c = 5,000$  psi (Superstructure Concrete)  
 $f_y = 60,000$  psi (Reinforcement)

**SEISMIC DATA**

Seismic Performance Category (SPC) = A  
 Bedrock Acceleration Coefficient (A) = 0.049  
 Site Condition (S) = 1.2

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**GENERAL PLAN & ELEVATION**  
**ILLINOIS ROUTE 128**  
**OVER TRIBUTARY TO MARROWBONE CREEK**  
**F.A.P. RTE. 770 - SEC. (116BR-2)B-1**  
**MOULTRIE COUNTY**  
**STATION 951+00.74**  
**STRUCTURE NO. 070-0038**

DESIGNED - TIFFANY L. MEIER	EXAMINED - <i>Jay F. Hoff</i> ENGINEER OF BRIDGE DESIGN	DATE - 2-1-2022	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	F.A.P. RTE. 770	SECTION (116BR-2)B-1	COUNTY MOULTRIE	TOTAL SHEETS 26	SHEET NO. 13
CHECKED - RYAN P. NEGANGARD	PASSED - <i>David Carl Puzey</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -		SHEET 1 OF 14 SHEETS	CONTRACT NO. 74434			
DRAWN - ANDRO R. SAMANIEGO		REVISED -			ILLINOIS FED. AID PROJECT			
CHECKED - T.L.M. / R.P.N. / G.R.A.								

STATION 951+00.74  
 RE-BUILT 20 BY  
 STATE OF ILLINOIS  
 F.A.P. RTE. 770 - SEC. (116BR-2)B-1  
 LOADING HL-93  
 STRUCTURE NO. 070-0038

**NAME PLATE**  
 See Std. 515001

Existing name plate shall be cleaned and relocated next to new name plate. Cost included with Name Plates.

**INDEX OF SHEETS**

- 1 - General Plan & Elevation
- 2 - General Data
- 3 - Top of Slab Elevations
- 4-5 - Top of Approach Slab Elevations
- 6 - Superstructure
- 7 - Superstructure Details
- 8-9 - Bridge Approach Slab Details
- 10 - Steel Railing, Type SM
- 11 - South Abutment Removal and Repairs
- 12 - North Abutment Removal and Repairs
- 13-14 - Soil Boring Logs

**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.

Reinforcement bars designated (E) shall be epoxy coated.  
 Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection. Forms for deck slab shall be removed prior to placement of bridge approach slab.

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

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 condition of the beams when developing construction procedures for removal and replacement of the superstructure.

**WATERWAY INFORMATION**

Existing Overtopping Elev. = 674.6 @ Sta. 950+85  
 Drainage Area = 3.25 sq. mi. Proposed Overtopping Elev. = 674.6 @ Sta. 950+85

Flood	Freq. Yr.	Q C.F.S.	Opening Ft <sup>2</sup>		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	557	98	98	671.3	0.9	0.9	672.2	672.2
Base	100	1070	113	113	672.1	2.5	2.5	674.6	674.6
Overtop Exist.	100	1070	113	-	672.1	2.5	-	674.6	-
Overtop Pro.	100	1070	-	113	672.1	-	2.5	-	674.6
Scour Check	200	1229	113	113	672.3	2.6	2.6	674.9	674.9
Max. Calc.	500	1450	113	113	672.5	2.5	2.5	675.0	675.0

10 year velocity through existing bridge = 5.7 ft./sec.  
 10 year velocity through proposed bridge = 5.7 ft./sec.

**DESIGN SCOUR ELEVATION TABLE**

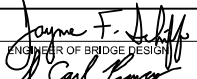
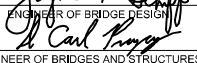
Event / Limit State	Design Scour Elevations (ft.)			Item 113
	S. Abut.	N. Abut.		
Q100	661.3	661.3		5
Q200	659.8	659.8		
Design	659.5	659.5		

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A5	Sq. Yd.		525	525
Filter Fabric	Sq. Yd.		525	525
Removal of Existing Superstructures	Each	1		1
Concrete Structures	Cu. Yd.		28.8	28.8
Concrete Superstructure	Cu. Yd.	83.9		83.9
Bridge Deck Grooving	Sq. Yd.	340		340
Protective Coat	Sq. Yd.	362		362
Concrete Superstructure (Approach Slab)	Cu. Yd.	92.8		92.8
Reinforcement Bars, Epoxy Coated	Pound	67,390		67,390
Name Plates	Each	1		1
Steel Railing, Type SM	Foot	122		122
Temporary Wall Bracing System	L. Sum		1	1
Concrete Removal	Cu. Yd.		3.2	3.2
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.		55	55

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DESIGNED -	TIFFANY L. MEIER
CHECKED -	RYAN P. NEGANGARD
DRAWN -	ANDRO R. SAMANIEGO
CHECKED -	T.L.M. / R.P.N. / G.R.A.

EXAMINED	
PASSED	
ENGINEER OF BRIDGES AND STRUCTURES	

DATE -	FEBRUARY 2, 2022
REVISED -	
REVISED -	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>GENERAL DATA</b>	
<b>STRUCTURE NO. 070-0038</b>	
SHEET 2 OF 14 SHEETS	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	(116BR-2)B-1	MOULTRIE	26	14
			CONTRACT NO. 74434	
		ILLINOIS	FED. AID PROJECT	

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
Bk. South Abutment	950+98.16	-16.50	674.34
$\bar{C}$ South Abutment	950+98.86	-16.50	674.34
C	951+08.86	-16.50	674.34
D	951+18.86	-16.50	674.34
E	951+28.86	-16.50	674.34
$\bar{C}$ North Abutment	951+35.62	-16.50	674.34
Bk. North Abutment	951+36.32	-16.50	674.34

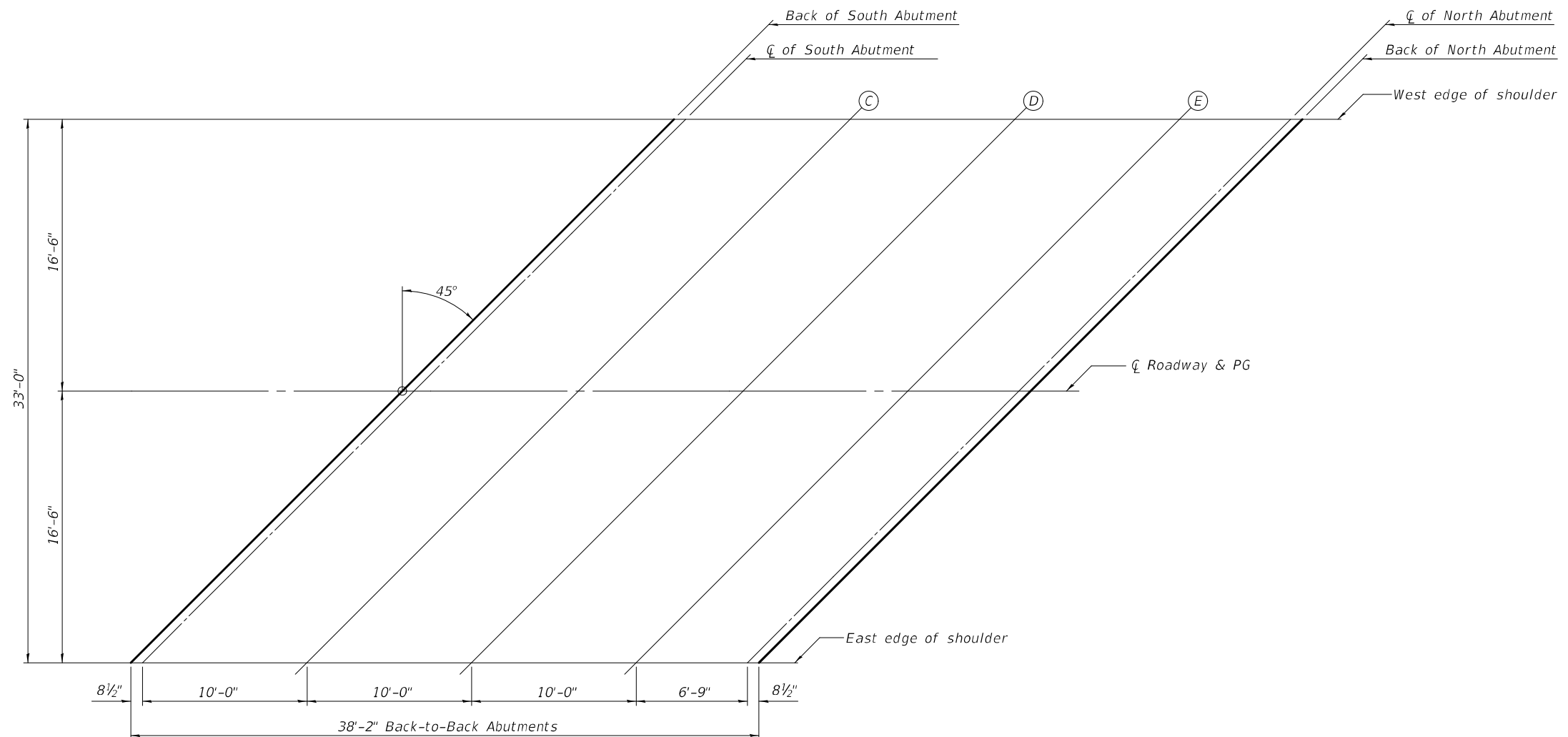
$\bar{C}$  ROADWAY & PG

Location	Station	Offset	Theoretical Grade Elevations
Bk. South Abutment	950+81.66	0.00	674.59
$\bar{C}$ South Abutment	950+82.36	0.00	674.59
C	950+92.36	0.00	674.59
D	951+02.36	0.00	674.59
E	951+12.36	0.00	674.59
$\bar{C}$ North Abutment	951+19.12	0.00	674.59
Bk. North Abutment	951+19.82	0.00	674.59

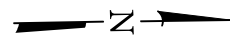
EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
Bk. South Abutment	950+65.16	16.50	674.35
$\bar{C}$ South Abutment	950+65.86	16.50	674.35
C	950+75.86	16.50	674.35
D	950+85.86	16.50	674.34
E	950+95.86	16.50	674.34
$\bar{C}$ North Abutment	951+02.62	16.50	674.34
Bk. North Abutment	951+03.32	16.50	674.34

Note:  
The dead load deflections are negligible.  
A dead load deflection diagram is not shown.



PLAN



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DESIGNED -	TIFFANY L. MEIER
CHECKED -	RYAN P. NEGANGARD
DRAWN -	ANDRO R. SAMANIEGO
CHECKED -	T.L.M. / R.P.N. / G.R.A.

EXAMINED	<i>Joanne F. Joffe</i>	DATE -	FEBRUARY 2, 2022
PASSED	<i>Carl King</i>	REVISED -	
	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS  
STRUCTURE NO. 070-0038**

SHEET 3 OF 14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	(116BR-2)B-1	MOULTRIE	26	15
CONTRACT NO. 74434				
ILLINOIS		FED. AID PROJECT		

WEST EDGE OF SHOULDER

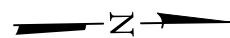
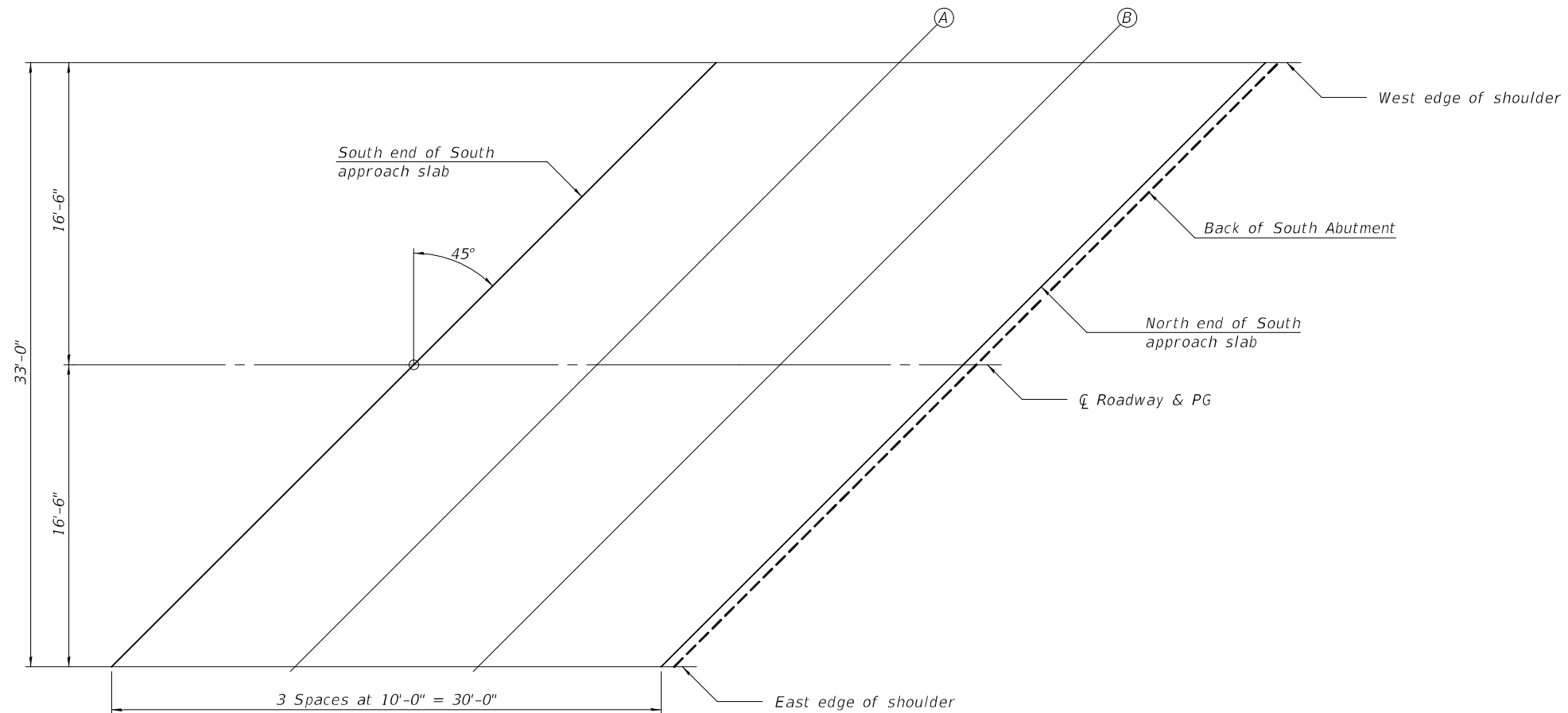
Location	Station	Offset	Theoretical Grade Elevations
S. end of S. Appr. slab	950+67.92	-16.50	674.35
A	950+77.92	-16.50	674.35
B	950+87.92	-16.50	674.34
N. end of S. Appr. slab	950+97.92	-16.50	674.34

CL ROADWAY & PG

Location	Station	Offset	Theoretical Grade Elevations
S. end of S. Appr. slab	950+51.42	0.00	674.60
A	950+61.42	0.00	674.60
B	950+71.42	0.00	674.59
N. end of S. Appr. slab	950+81.42	0.00	674.59

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. end of S. Appr. slab	950+34.92	16.50	674.35
A	950+44.92	16.50	674.35
B	950+54.92	16.50	674.35
N. end of S. Appr. slab	950+64.92	16.50	674.35



PLAN

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DESIGNED -	TIFFANY L. MEIER
CHECKED -	RYAN P. NEGANGARD
DRAWN -	ANDRO R. SAMANIEGO
CHECKED -	T.L.M. / R.P.N. / G.R.A.

EXAMINED	<i>Joanne F. Jaffe</i> ENGINEER OF BRIDGE DESIGN	DATE -	FEBRUARY 2, 2022
PASSED	<i>Carl Kupper</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -	
		REVISED -	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TOP OF SOUTH APPROACH SLAB ELEVATIONS  
STRUCTURE NO. 070-0038**

SHEET 4 OF 14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	(116BR-2)B-1	MOULTRIE	26	16
			CONTRACT NO. 74434	
		ILLINOIS	FED. AID PROJECT	

WEST EDGE OF SHOULDER

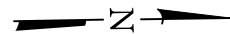
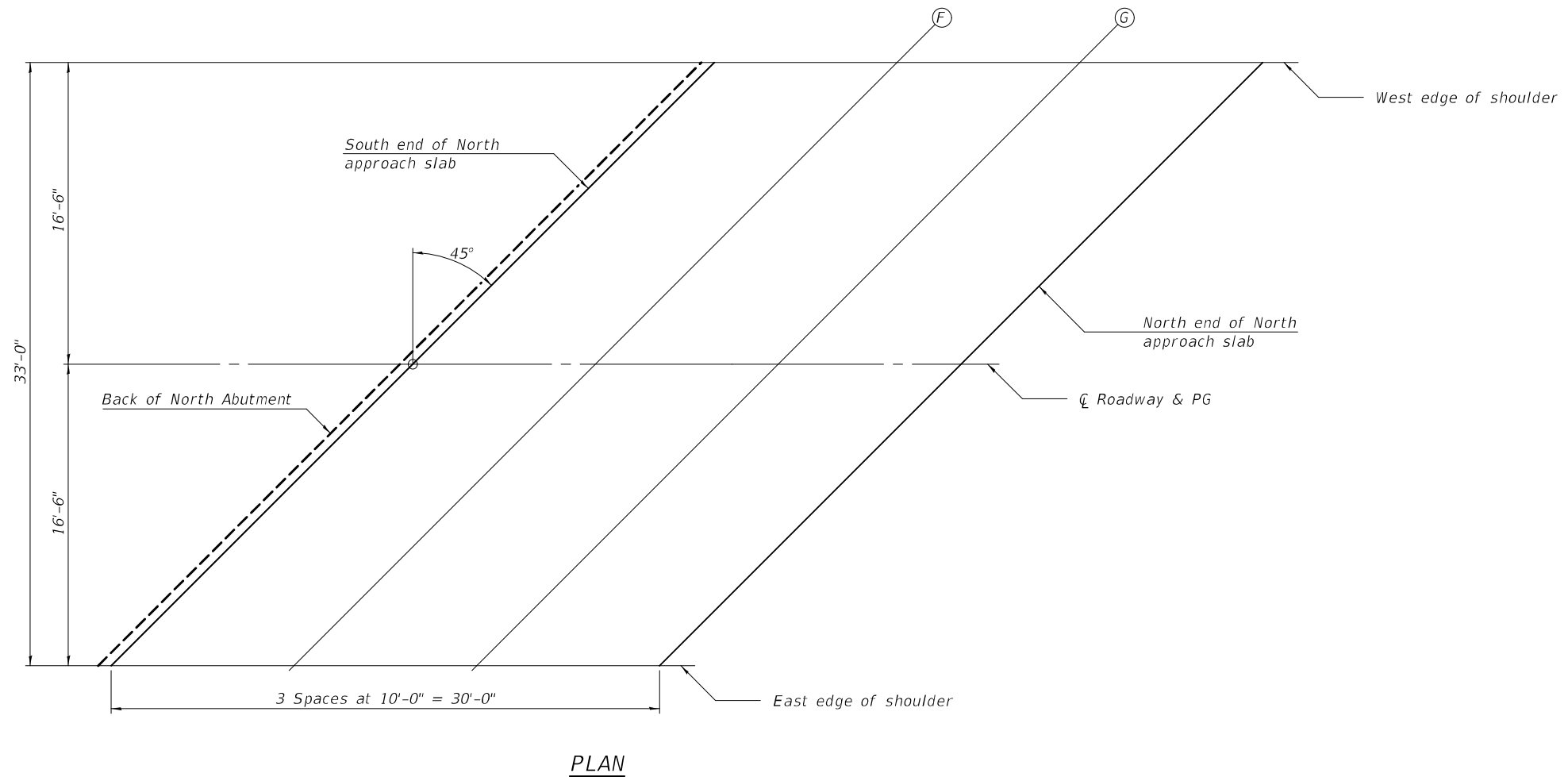
Location	Station	Offset	Theoretical Grade Elevations
S. end of N. Appr. slab	951+36.56	-16.50	674.34
F	951+46.56	-16.50	674.34
G	951+56.56	-16.50	674.34
N. end of N. Appr. slab	951+66.56	-16.50	674.33

CL ROADWAY & PG

Location	Station	Offset	Theoretical Grade Elevations
S. end of N. Appr. slab	951+20.06	0.00	674.59
F	951+30.06	0.00	674.59
G	951+40.06	0.00	674.58
N. end of N. Appr. slab	951+50.06	0.00	674.58

EAST EDGE OF SHOULDER

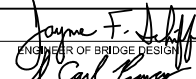

Location	Station	Offset	Theoretical Grade Elevations
S. end of N. Appr. slab	951+03.56	16.50	674.34
F	951+13.56	16.50	674.34
G	951+23.56	16.50	674.34
N. end of N. Appr. slab	951+33.56	16.50	674.34



PLAN

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DESIGNED -	TIFFANY L. MEIER
CHECKED -	RYAN P. NEGANGARD
DRAWN -	ANDRO R. SAMANIEGO
CHECKED -	T.L.M. / R.P.N. / G.R.A.

EXAMINED	
PASSED	
ENGINEER OF BRIDGES AND STRUCTURES	

DATE -	FEBRUARY 2, 2022
REVISED -	
REVISED -	

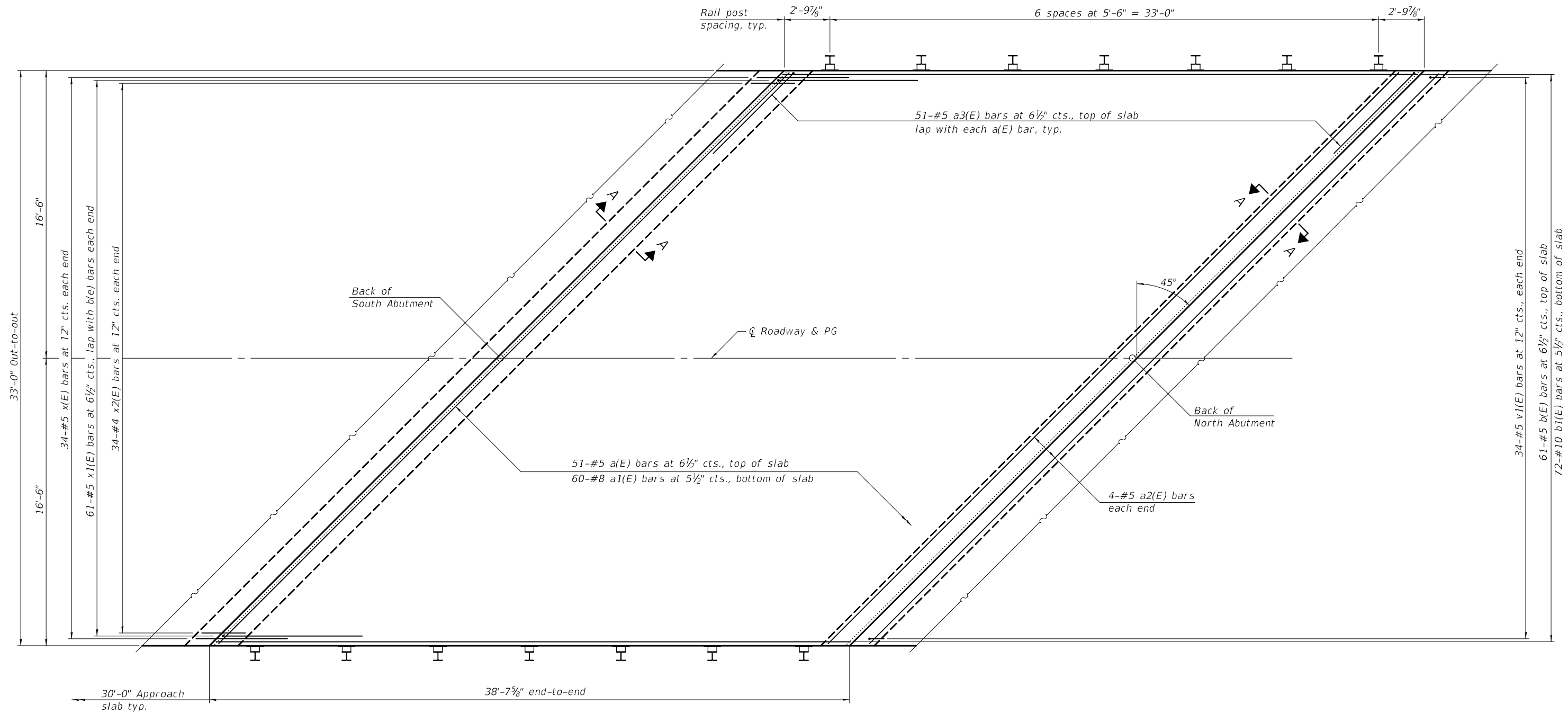
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TOP OF NORTH APPROACH SLAB ELEVATIONS  
STRUCTURE NO. 070-0038**

SHEET 5 OF 14 SHEETS

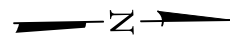
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770	(116BR-2)B-1	MOULTRIE	26	17
CONTRACT NO. 74434				
ILLINOIS		FED. AID PROJECT		

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PLAN

Notes:  
 See sheet 7 of 14 for Superstructure Details and Bill of Materials.  
 See sheet 7 of 14 for Section A-A.



DESIGNED -	TIFFANY L. MEIER
CHECKED -	RYAN P. NEGANGARD
DRAWN -	ANDRO R. SAMANIEGO
CHECKED -	T.L.M. / R.P.N. / G.R.A.

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

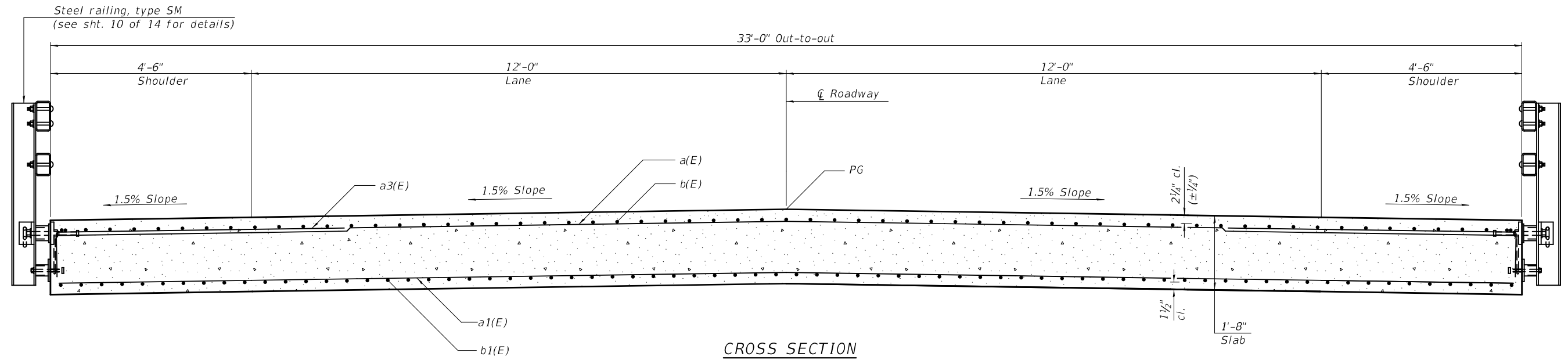
DATE -	FEBRUARY 2, 2022
REVISED -	
REVISED -	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

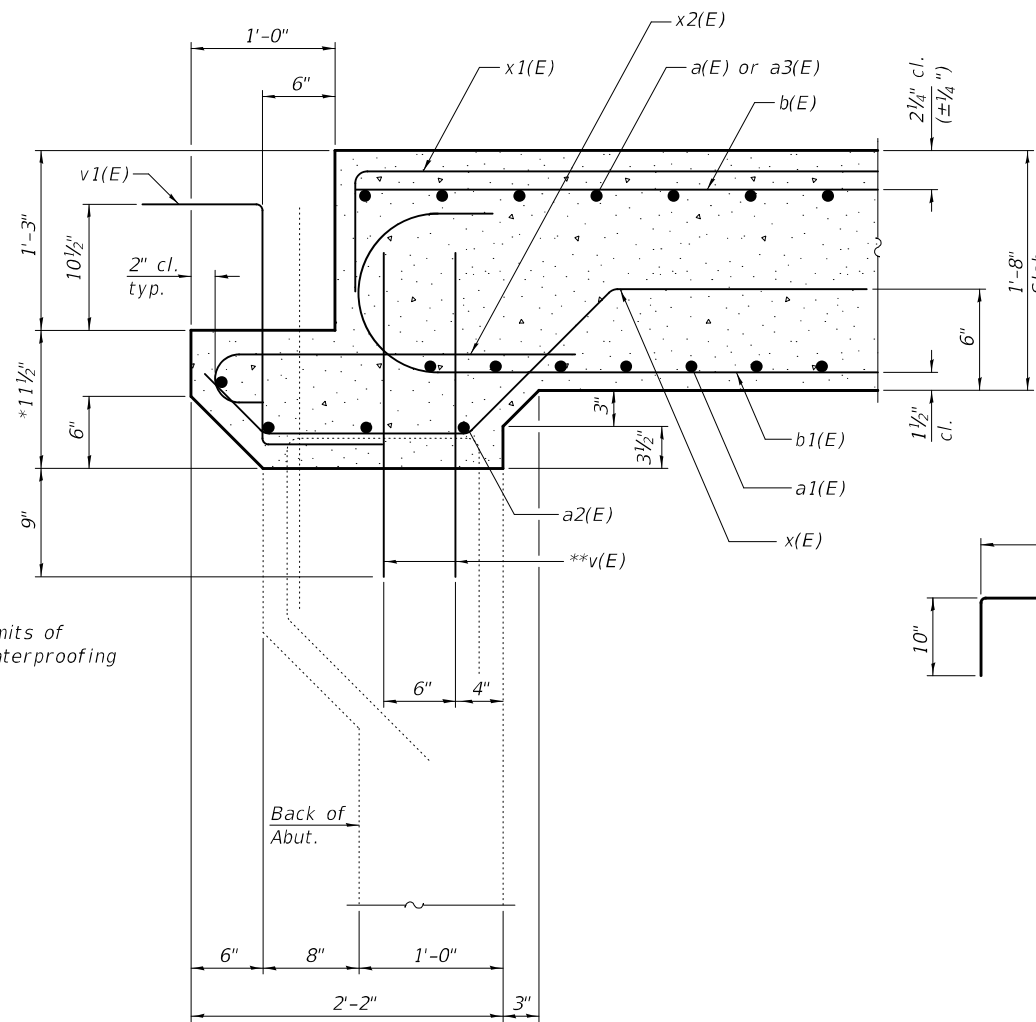
**SUPERSTRUCTURE  
 STRUCTURE NO. 070-0038**

SHEET 6 OF 14 SHEETS

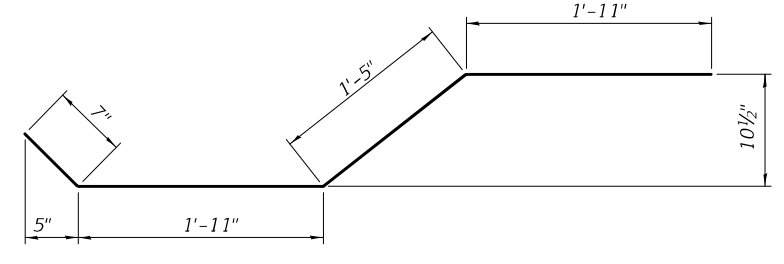
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770	(116BR-2)B-1	MOULTRIE	26	18
CONTRACT NO. 74434				
ILLINOIS		FED. AID PROJECT		



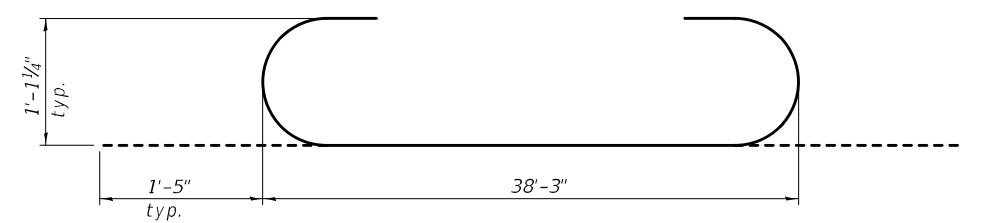
CROSS SECTION



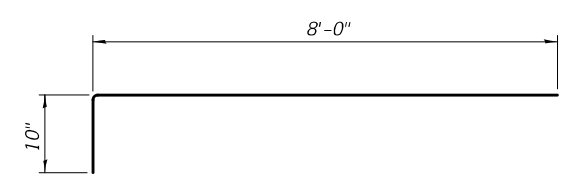
SECTION A-A  
Horizontal dimensions at Right angles



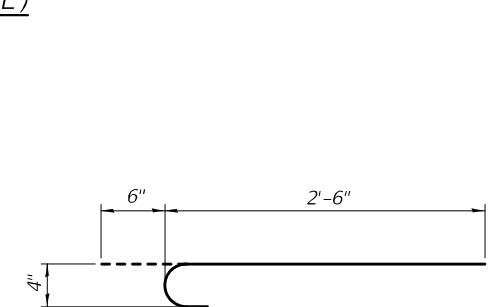
BAR x(E)



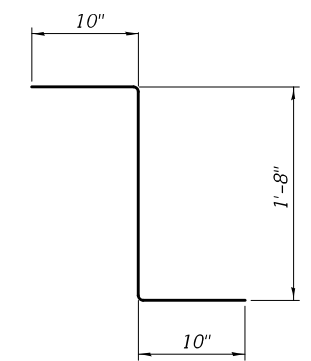
BAR b1(E)



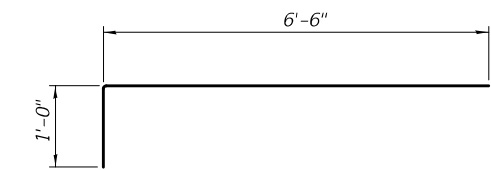
BAR x1(E)



BAR x2(E)



BAR v1(E)



BAR a3(E)

SUPERSTRUCTURE  
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	51	#5	46'-3"	—
a1(E)	60	#8	46'-3"	—
a2(E)	8	#5	46'-3"	—
a3(E)	102	#5	7'-6"	┌
b(E)	61	#5	38'-3"	—
b1(E)	72	#10	41'-1"	┌
v(E)	188	#5	2'-9"	—
v1(E)	68	#5	3'-4"	┌
x(E)	68	#5	5'-10"	┌
x1(E)	122	#5	8'-10"	┌
x2(E)	68	#4	3'-0"	┌
Reinforcement Bars, Epoxy Coated			Pound	28,660
Concrete Superstructure			Cu. Yd.	83.9

\*\* See sheets 11 and 12 of 14 for v(E) bars.

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DESIGNED - TIFFANY L. MEIER	EXAMINED - <i>Joanne F. Joffe</i>	DATE - FEBRUARY 2, 2022
CHECKED - RYAN P. NEGANGARD	PASSED - <i>Carl Kasper</i>	REVISIONS -
DRAWN - ANDRO R. SAMANIEGO	ENGINEER OF BRIDGES AND STRUCTURES	REVISIONS -
CHECKED - T.L.M. / R.P.N. / G.R.A.		

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DEPARTMENT OF TRANSPORTATION

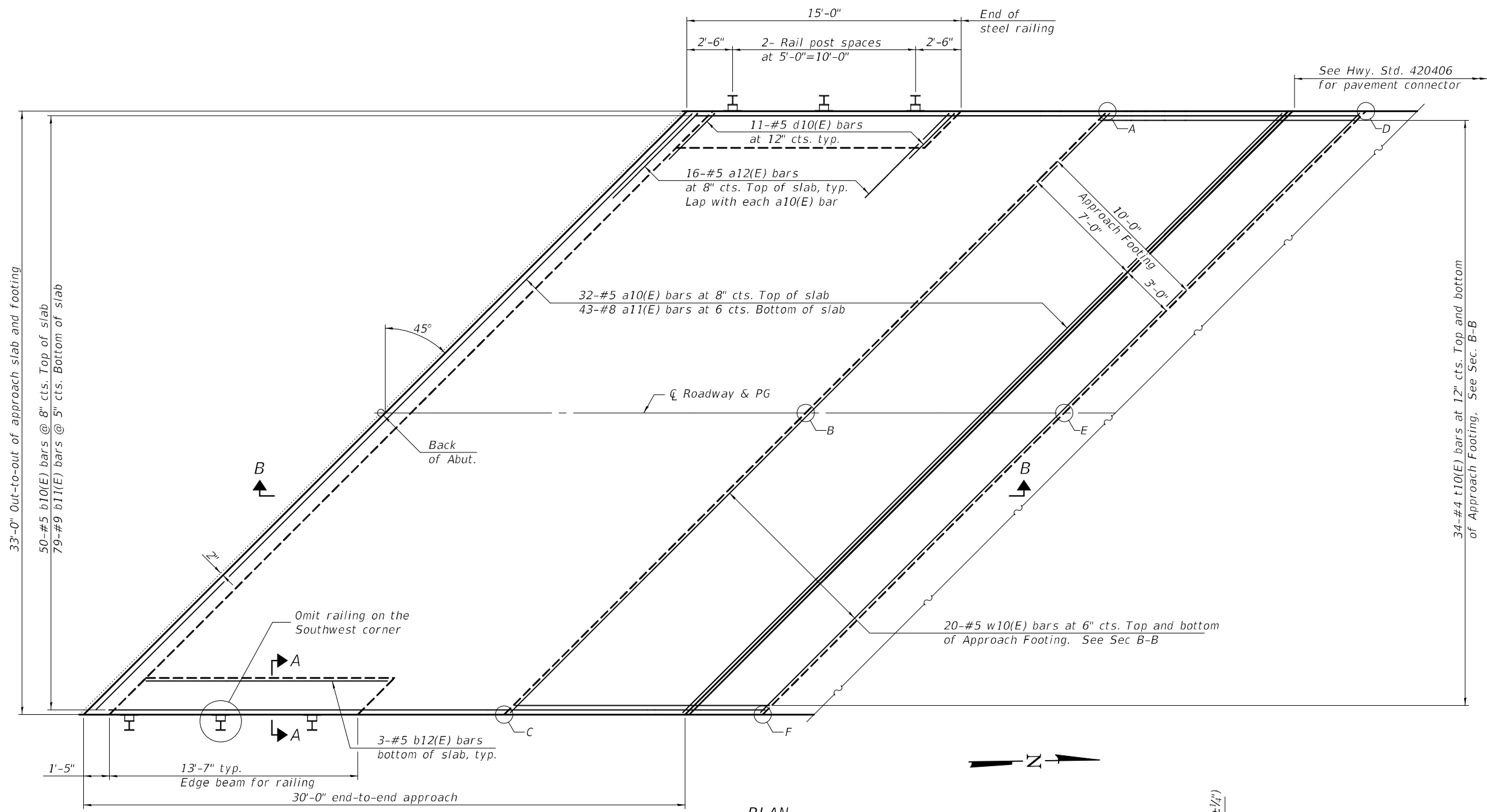
SUPERSTRUCTURE DETAILS  
STRUCTURE NO. 070-0038

SHEET 7 OF 14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	(116BR-2)B-1	MOULTRIE	26	19
CONTRACT NO. 74434				

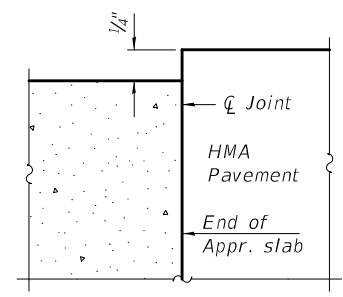
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**PLAN**

(North approach slab shown; South approach slab similar by 180° rotation except as shown)



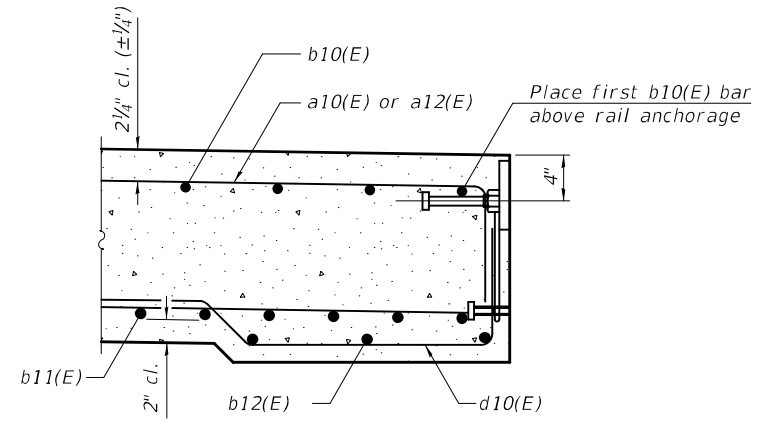
**FLEXIBLE PAVEMENT**

**DETAIL A**

**TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING**

North Approach			South Approach		
Point/Location	Top	Bottom	Point/Location	Top	Bottom
A - SW	673.09	672.26	A - NE	673.10	672.27
B - S $\bar{C}$	673.33	672.50	B - N $\bar{C}$	673.35	672.52
C - SE	673.09	672.26	C - NW	673.10	672.27
D - NW	673.08	672.25	D - SE	673.10	672.27
E - N $\bar{C}$	673.33	672.50	E - S $\bar{C}$	673.35	672.52
F - NE	673.09	672.26	F - SW	673.10	672.27

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



**SECTION A-A**

(Sheet 1 of 2)

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EXAMINED  
PASSED  
  
 ENGINEER OF BRIDGES AND STRUCTURES

DATE - FEBRUARY 2, 2022  
REVISED -  
REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

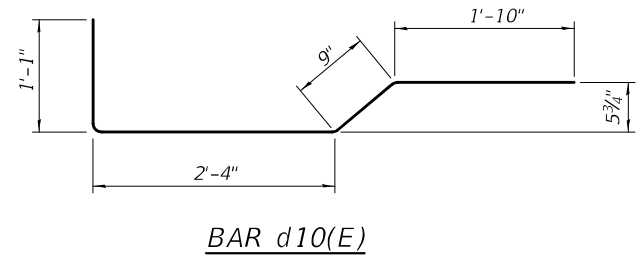
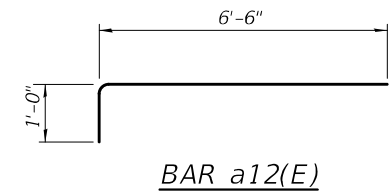
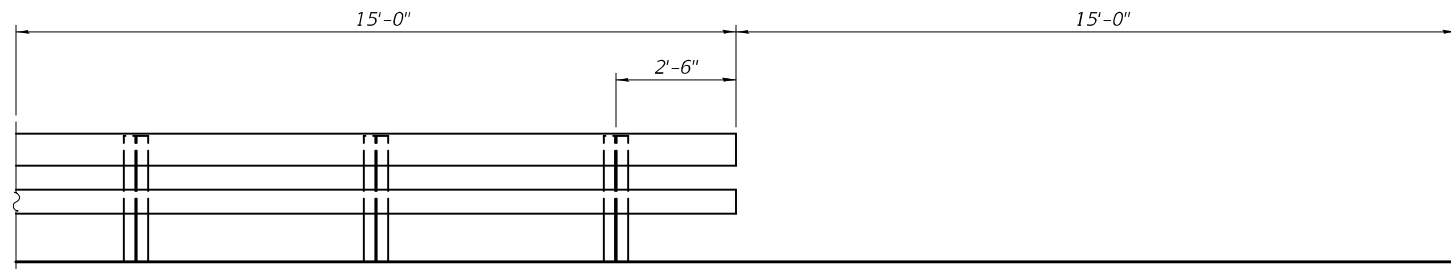
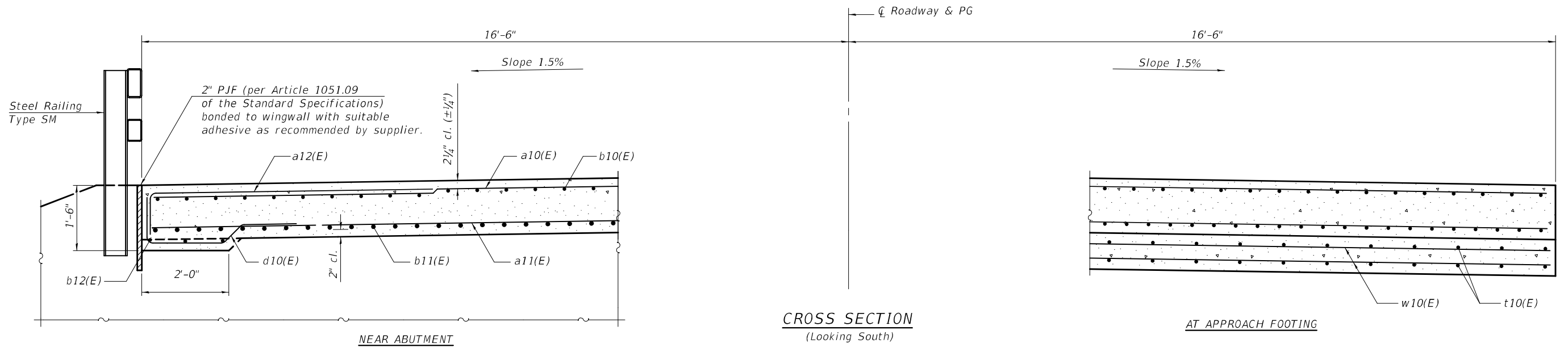
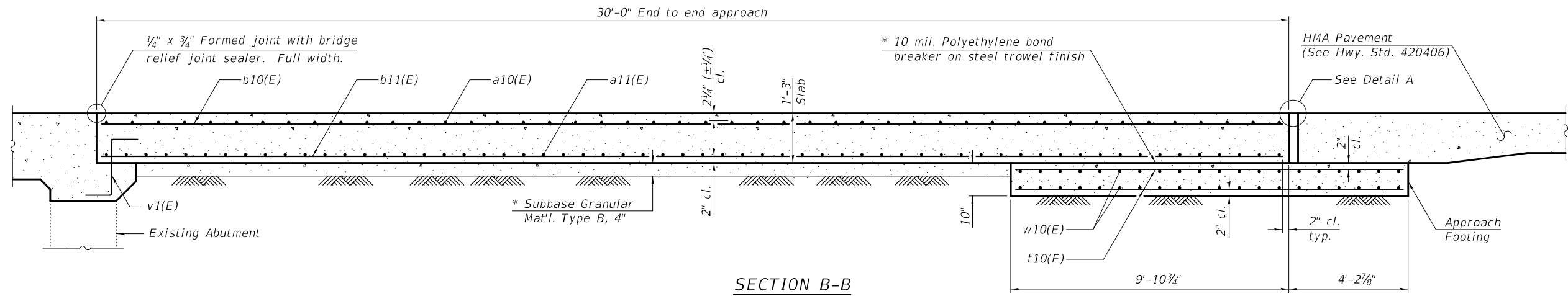
**BRIDGE APPROACH SLAB  
STRUCTURE NO. 070-0038**

SHEET 8 OF 14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	(116BR-2)B-1	MOULTRIE	26	20
CONTRACT NO. 74434				
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**TWO APPROACHES  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape	
a10(E)	64	#5	46'-3"	—	
a11(E)	86	#8	46'-3"	—	
a12(E)	64	#5	7'-6"	U	
b10(E)	100	#5	29'-7"	—	
b11(E)	158	#9	29'-7"	—	
b12(E)	12	#5	13'-2"	—	
d10(E)	44	#5	6'-0"	L	
t10(E)	136	#4	13'-8"	—	
w10(E)	80	#5	46'-3"	—	
Concrete Superstructure (Approach Slab)				Cu. Yd.	92.8
Concrete Structures				Cu. Yd.	28.8
Reinforcement Bars, Epoxy Coated				Pound	38,730

Notes:  
 The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.  
 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 (Qmax) = 2.0 ksf.  
 Cost of excavation for approach footing included with Concrete Structures.  
 For railing details, see sheet 10 of 14.

(Sheet 2 of 2)

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DESIGNED - TIFFANY L. MEIER	EXAMINED - <i>Joanne F. Joffe</i>	DATE - FEBRUARY 2, 2022
CHECKED - RYAN P. NEGANGARD	PASSED - <i>Carl Kasper</i>	REVISOR -
DRAWN - ANDRO R. SAMANIEGO	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR -
CHECKED - T.L.M. / R.P.N. / G.R.A.		

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DEPARTMENT OF TRANSPORTATION**

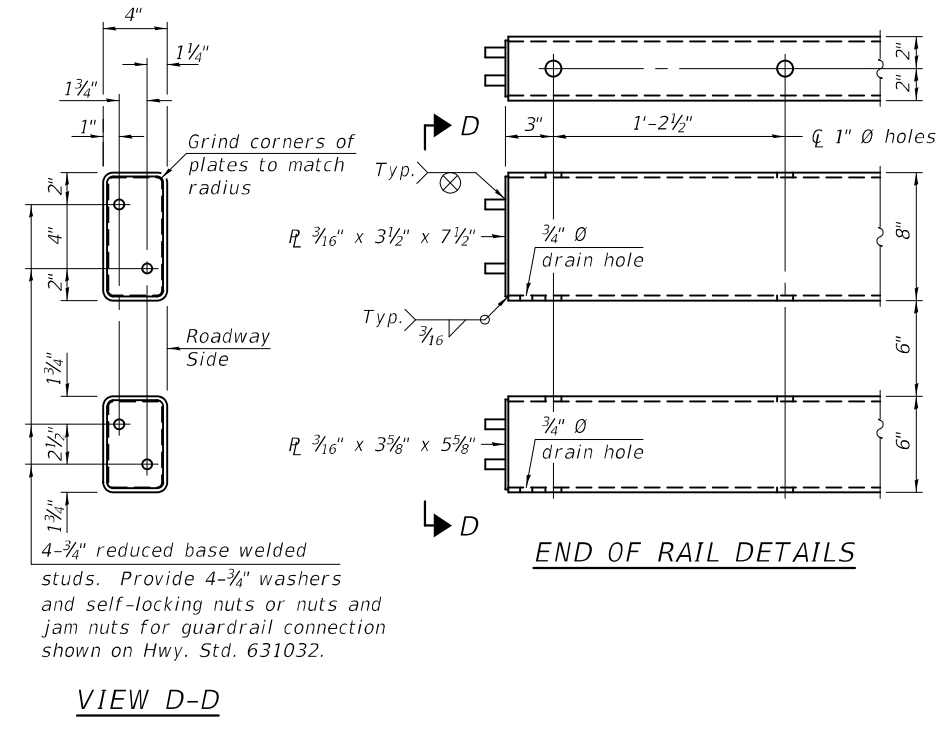
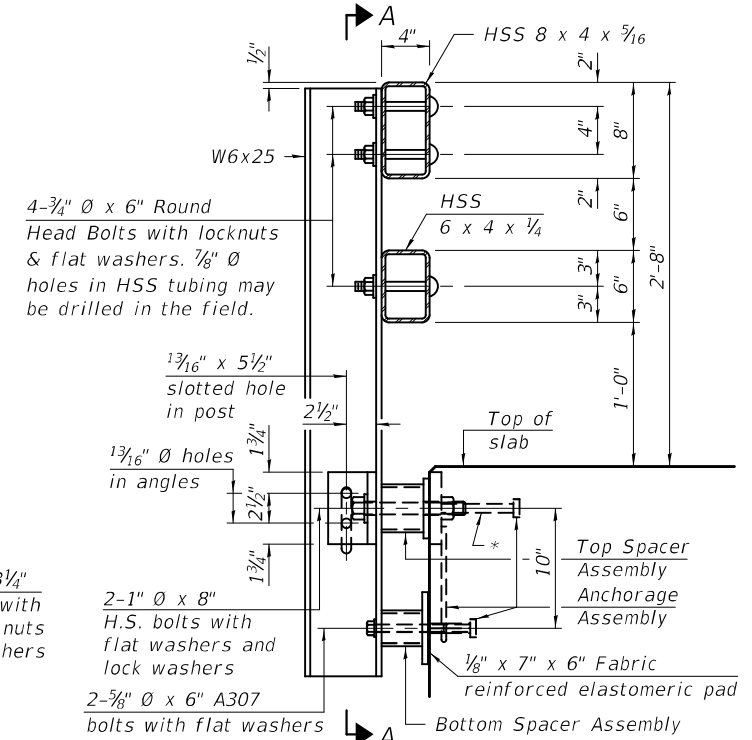
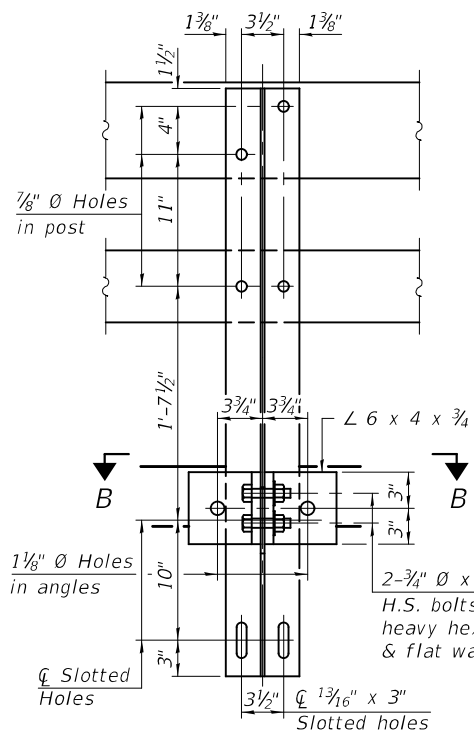
**BRIDGE APPROACH SLAB DETAILS  
STRUCTURE NO. 070-0038**

SHEET 9 OF 14 SHEETS

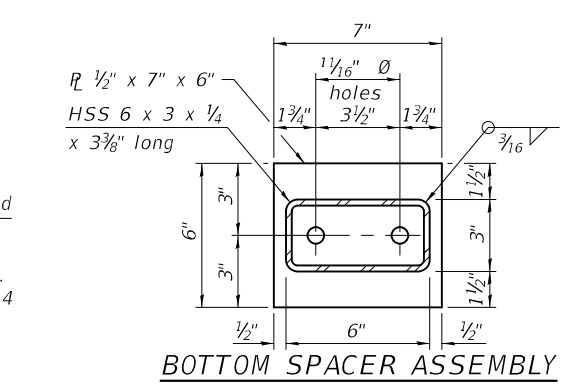
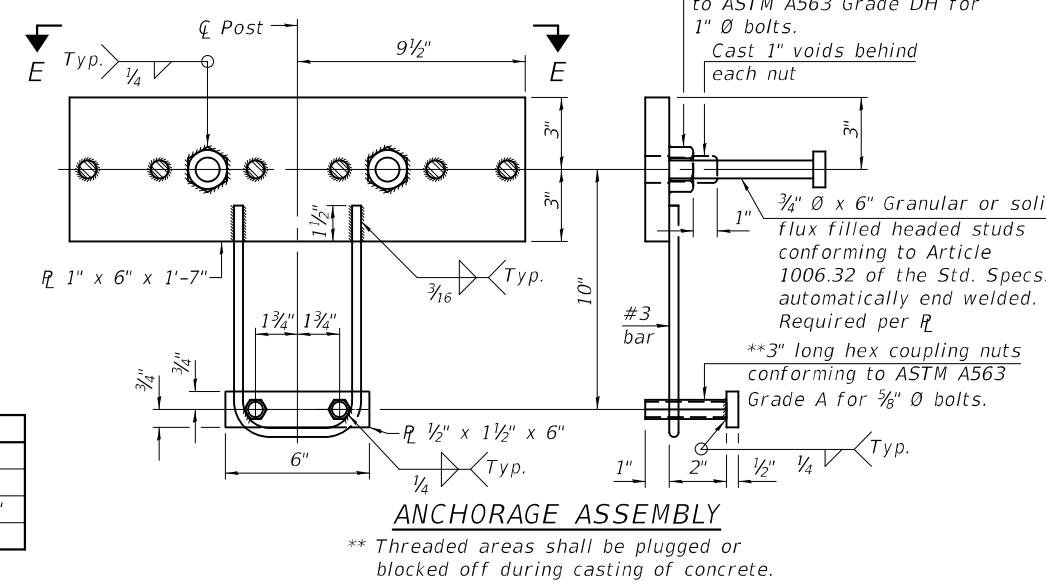
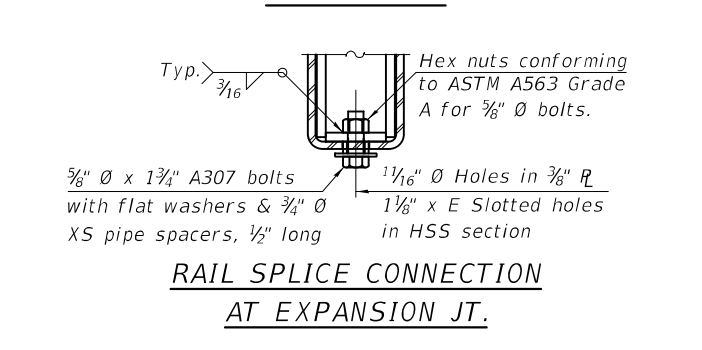
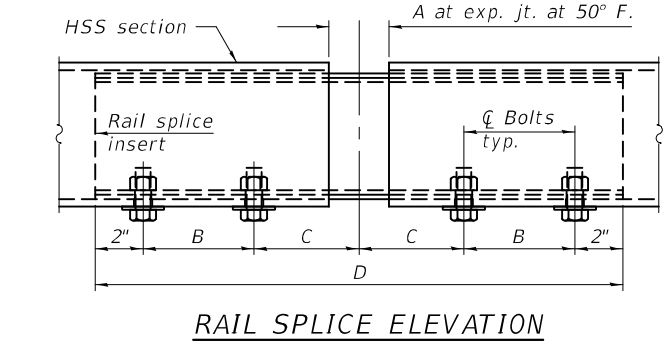
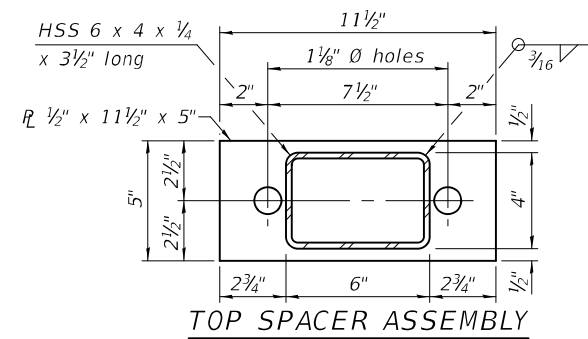
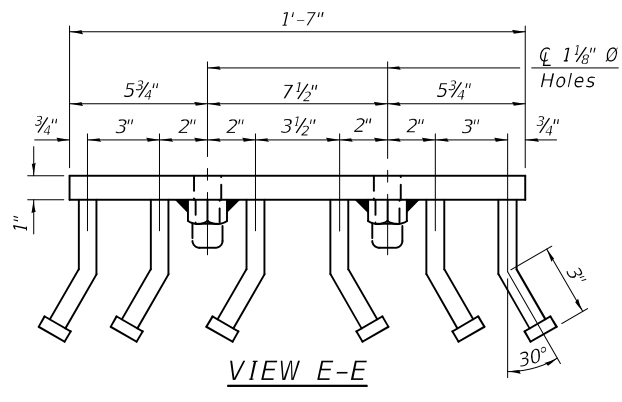
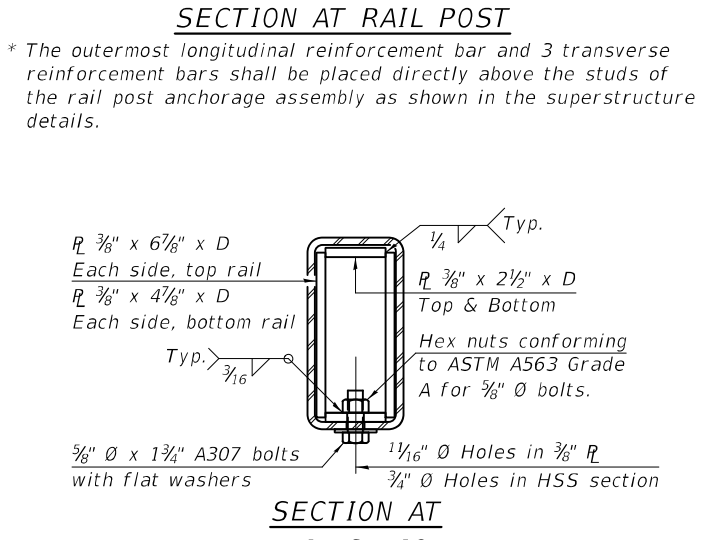
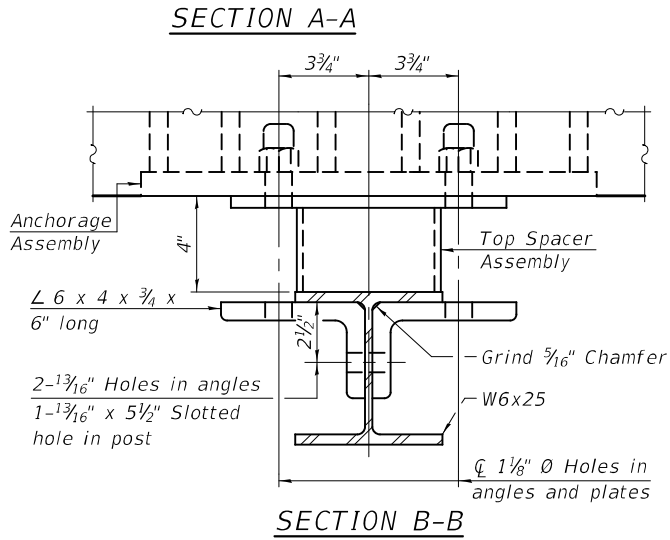
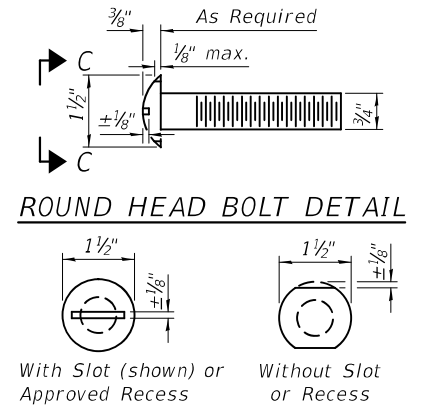
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	(116BR-2)B-1	MOULTRIE	26	21
CONTRACT NO. 74434				

ILLINOIS FED. AID PROJECT

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Notes:  
 A sufficient number of shims of various thicknesses, sized to fit behind the top spacer assembly, 5" x 11 1/2", and bottom spacer assembly, 6" x 7", shall be provided to adjust posts for proper alignment. If the summation of shims is greater than 1/4" (top) or 1/2" (bottom), longer bolts are required. Cost included with Steel Railing, Type SM.  
 All steel rail elements including shims shall be galvanized according to Article 509.05 of the Standard Specifications.  
 All HSS tubing serving as railing shall be CVN tested according to Article 1006.34(b) of the Standard Specifications.  
 Rail splice inserts may be built out of 2 - 3/8" bent plates in lieu of the 4 plate rail splice inserts shown, provided the outside dimensions are matched.  
 All round head bolts shall be ASTM A307 with locknuts according to ASTM A563 grade A.



**RAILING CRITERIA**

MASH 2016 Test Level	2
Railing Weight (plf)	90
Min f'c (psi)	5,000
Max Post Spacing	6'-3"
CWS thickness range (in)	5 - 7 1/8

**SPLICE DIMENSIONS**

Location	T	A	B	C	D	E
All locs. not over exp. jts.	0	1/4"	4"	4"	1'-8"	-
Over Strip Seal Jt.	≤4"	2 1/2"	4 3/8"	4 3/8"	1'-10"	3 1/16"
Over Finger or Modular Jt.	≤9 1/2"	5 1/2"	7 3/8"	7 1/4"	2'-9 1/4"	5 1 3/16"
Over Finger or Modular Jt.	≤15"	8 1/4"	10 1/8"	10"	3'-8 1/4"	8 9/16"

T = ; total movement along centerline of roadway at expansion joint.

**BILL OF MATERIAL**

Item	Unit	Quantity
Steel Railing, Type SM	Foot	122

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 CHECKED - T.L.M. / R.P.N. / G.R.A.

EXAMINED  
 PASSED

DATE - FEBRUARY 2, 2022

REVISOR -  
 REVISION -

*Joanne F. Joffe*  
 ENGINEER OF BRIDGE DESIGN

*Carl Ringer*  
 ENGINEER OF BRIDGES AND STRUCTURES

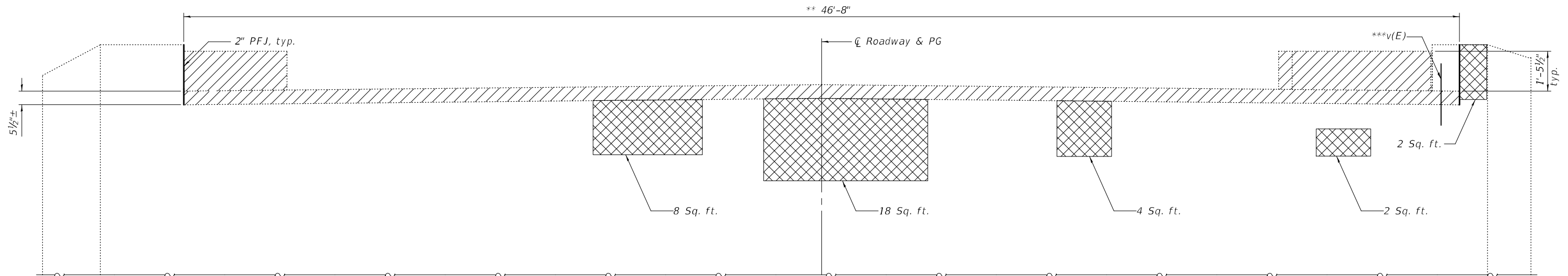
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

STEEL RAILING, TYPE SM  
 STRUCTURE NO. 070-0038

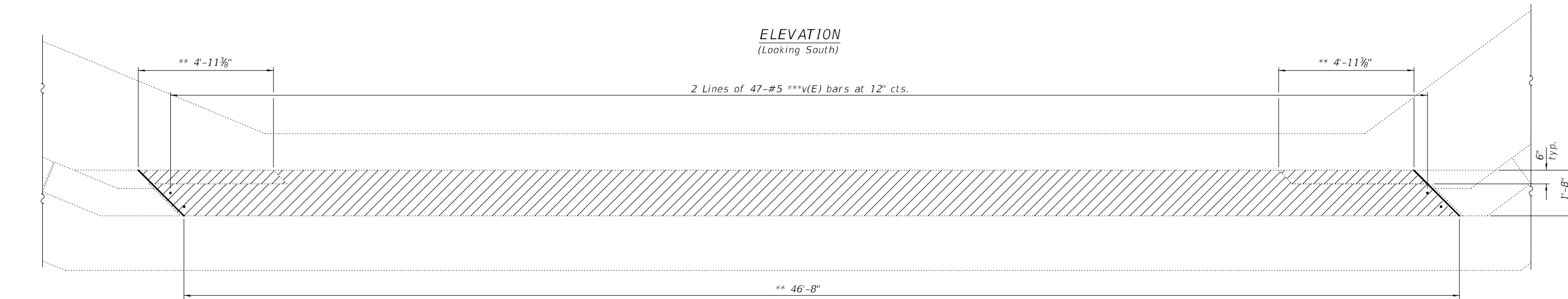
SHEET 10 OF 14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	(116BR-2)B-1	MOULTRIE	26	22
CONTRACT NO. 74434				
ILLINOIS FED. AID PROJECT				

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**ELEVATION**  
(Looking South)



**PLAN**

**BILL OF MATERIAL**

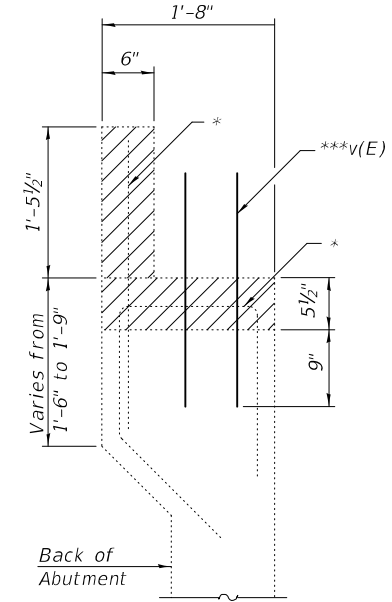
Item	Unit	Quantity
Concrete Removal	Cu. Yd.	1.6
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.	34

**LEGEND**

- Concrete Removal
- Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)

- \* Existing reinforcement extending into new construction shall be cleaned, straightened, and incorporated into the new construction. Cost included with Concrete Removal.
- \*\* 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.
- \*\*\* Epoxy grout v(E) bars in 9" min. drilled holes according to Section 584 of the Standard Specs.

Note:  
For Details of \*\*\*v(E) bars see sheet 7 of 14.



**EXISTING SECTION  
THRU ABUTMENT**

DESIGNED - TIFFANY L. MEIER  
 CHECKED - RYAN P. NEGANGARD  
 DRAWN - ANDRO R. SAMANIEGO  
 CHECKED - T.L.M. / R.P.N. / G.R.A.

EXAMINED  
 PASSED  
  
 ENGINEER OF BRIDGE DESIGN  
  
 ENGINEER OF BRIDGES AND STRUCTURES

DATE - FEBRUARY 2, 2022  
 REVISED -  
 REVISED -

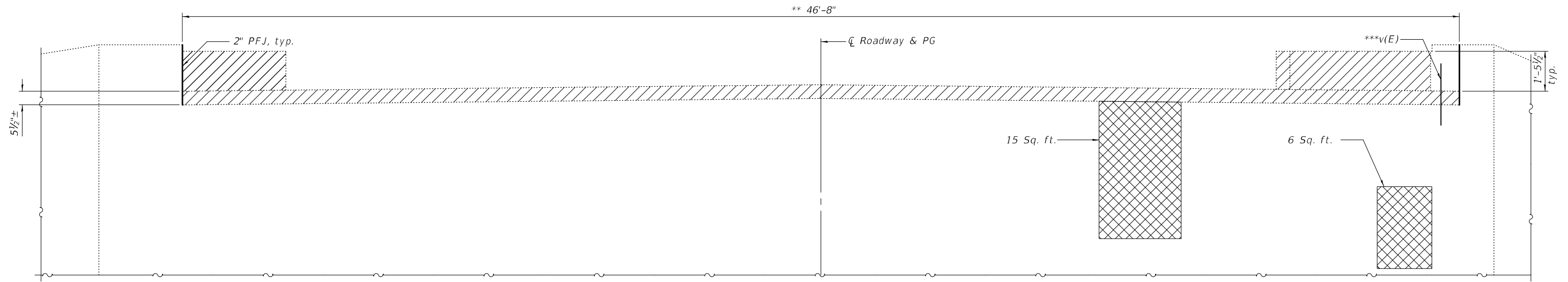
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DEPARTMENT OF TRANSPORTATION**

**SOUTH ABUTMENT REMOVAL AND REPAIRS  
STRUCTURE NO. 070-0038**

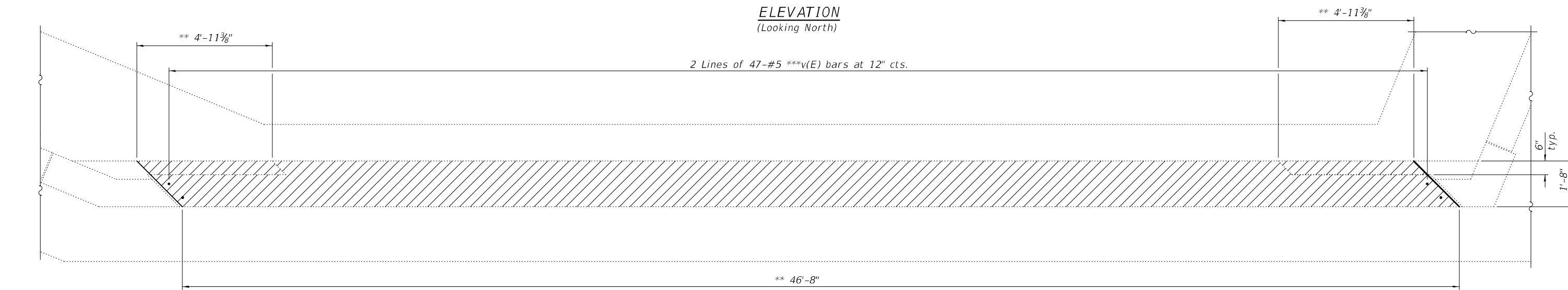
SHEET 11 OF 14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	(116BR-2)B-1	MOULTRIE	26	23
CONTRACT NO. 74434				
		ILLINOIS	FED. AID PROJECT	

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**ELEVATION**  
 (Looking North)



**PLAN**

**BILL OF MATERIAL**

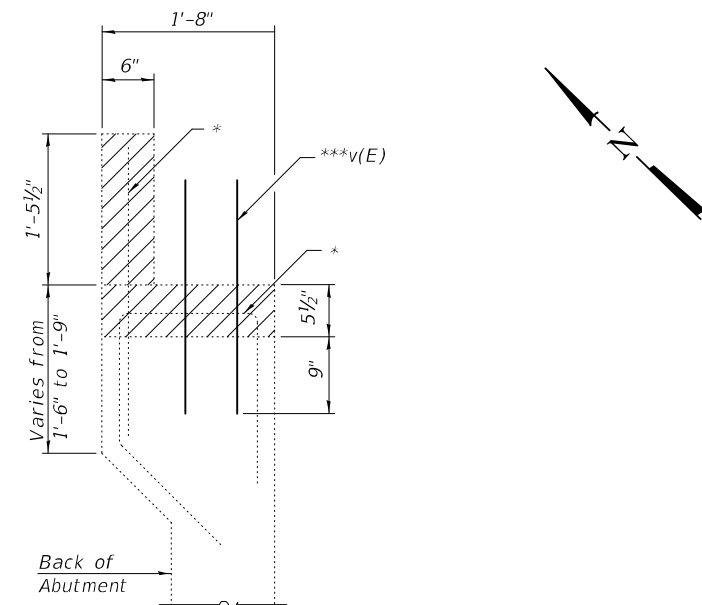
Item	Unit	Quantity
Concrete Removal	Cu. Yd.	1.6
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.	21

**LEGEND**

- Concrete Removal
- Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)

- \* Existing reinforcement extending into new construction shall be cleaned, straightened, and incorporated into the new construction. Cost included with Concrete Removal.
- \*\* 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.
- \*\*\* Epoxy grout v(E) bars in 9" min. drilled holes according to Section 584 of the Standard Specs.

Note:  
 For Details of \*\*\*v(E) bars see sheet 7 of 14.



**EXISTING SECTION  
 THRU ABUTMENT**

DESIGNED - TIFFANY L. MEIER  
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 DRAWN - ANDRO R. SAMANIEGO  
 CHECKED - T.L.M. / R.P.N. / G.R.A.

EXAMINED  
 PASSED  
  
 ENGINEER OF BRIDGE DESIGN  
  
 ENGINEER OF BRIDGES AND STRUCTURES

DATE - FEBRUARY 2, 2022  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**NORTH ABUTMENT REMOVAL AND REPAIRS  
 STRUCTURE NO. 070-0038**

SHEET 12 OF 14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	(116BR-2)B-1	MOULTRIE	26	24
CONTRACT NO. 74434				
ILLINOIS FED. AID PROJECT				



