06-13-2025 LETTING ITEM 076

INDEX OF SHEETS

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- COVER SHEET GENERAL NOTES SUMMARY OF QUANTITIES SCHEDULE OF QUANTITIES
- EXISTING TYPICAL SECTION STAGING TYPICAL SECTION
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- STAGE I MAINTENANCE OF TRAFFIC STAGE II MAINTENANCE OF TRAFFIC
- 13 ROADWAY PLAN SHEET 14–26 BRIDGE REPAIR PLANS
- 27-37 DISTRICT CADD STANDARDS

HIGHWAY STANDARDS

000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

001001-08 STANDARD STMBDARD STANDARD ST

630301-09 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
701001-02 TRAFFIC BARRIER TERMINAL, TYPE 6
701006-05 OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5M) AWAY
701006-05 OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5M) TO 24" (600MM) FROM
PAVEMENT EDGE
701011-04 OFF-ROAD OPERATIONS, 2L, 2W, DAY ONLY
701301-04 LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-04 LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING FOR SPEEDS GREATER
THAN OR EQUAL TO 45 MPH
701901-10 TRAFFIC CONTROL DEVICES
704001-08 TEMPORARY CONCRETE BARRIER

704001-08 TEMPORARY CONCRETE BARRIER 725001-01 OBJECT AND TERMINAL MARKERS 780001-05 TYPICAL PAVEMENT MARKINGS

782006-01 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

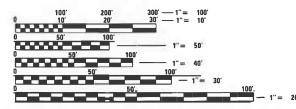
DISTRICT STANDARDS

406101-D4 BUTT JOINTS

630011-D4 D4 STEEL PLATE BEAM GUARDRAIL TYPE A, 6.75 FT POSTS 630101-D4 D4 GUARDRAILS EROSION CONTROL TREATMENTS

780001-D4 TYPICAL PAVEMENT MARKINGS

FUNCTIONAL CLASSIFICATION MINOR ARTERIAL PV: 88.5% SU + MU: 11.5%



US 150 OVER MUD CREEK STA. 339+99.88 TO STA. 341+08.22

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.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

PROJECT ENGINEER: BEN TELLEFSON (309) 671-4477 PROJECT MANAGER: MARK ECKHOFF (309) 671-4463

CONTRACT NO. 68J42 **CATALOG NO. 036546-00D**

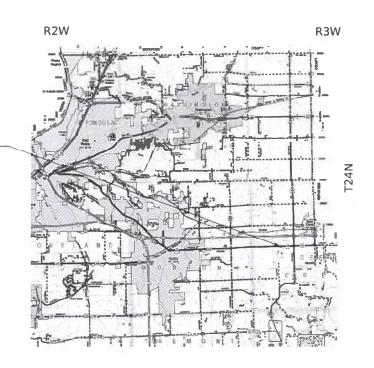


STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED HIGHWAY PLANS

ROUTE FAS 2466 (US 150 OVER MUD CREEK) SECTION (6BR-1)BRR **CONTRACT MAINTENANCE BRIDGE REHABILITATION TAZEWELL COUNTY**

C-94-094-24







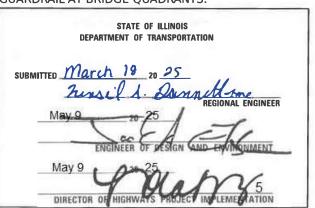
TOTAL SHEE SHEETS NO. SECTION COUNTY (6BR-1)BRF TAZEWELL 37 ILLINOIS CONTRACT NO. 68J42

D-94-066-24



DESCRIPTION OF PROJECT:

THIS PROJECT CONSISTS OF REPLACING EXPANSION JOINTS, ABUTMENT BEARINGS, SUBSTRUCTURE REPAIR, MILL AND OVERLAY EXISTING HMA AT BRIDGE APPROACHES, REMOVE INLETS AND SLOPE PIPES AT THE PCC APPROACH SHOULDERS AND REPLACE WITH RIPRAP SWALES, REMOVE AND REPLACE EXISTING GUARDRAIL AT BRIDGE QUADRANTS.



PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

GROSS LENGTH = 659.34 FT. = 0.12 MILE NET LENGTH = 659.34 FT. = 0.12 MILE

GENERAL NOTES

- 1. THE CONSTRUCTION SHALL BE GOVERNED BY THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" 2022 EDITION AND "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", CURRENT EDITION.
- 2. ALL ELEVATIONS, STATIONS AND OFFSETS SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- 3. ALL ELEVATIONS SHOWN ON THE PLANS ARE ESTABLISHED FROM U.S.G.S. MEAN SEA LEVEL DATUM.
- 4. TEN FEET (10 FT.) TRANSITIONS SHALL BE USED TO MATCH PROPOSED ITEMS OF WORK TO EXISTING ITEMS IN THE FIELD UNLESS OTHERWISE SHOWN. THE TRANSITION SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEM OF WORK SPECIFIED.
- 5. POLYMERIZED BITUMINOUS MATERIALS (TACK COAT) RATES

SURFACE TYPE	RESIDUAL RATE
MILLED (HMA OR PCC)	0.08 LB/SF
EXISTING PAVEMENT	0.08 LB/SF
FOG COAT (BETWEEN LIFTS)	0.08 LB/SF

6. HOT-MIX ASPHALT MIXTURE REQUIREMENTS

LOCATIONS:	SHOULDERS LOWER LIFTS	HMA SURGACE COURSE. SHOULDERS TOP LIFT
MIXTURE USES:	HMA BINDER COURSE	HMA SURFACE COURSE
PG:	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4% @ N50	4% @ N50
MIXTURE COMPOSITION:	IL 19.0	IL 9.5
FRICTION AGGREGATE:	N.A.	MIX "D"
QUALITY MANAGEMENT:	QC/QA	QA/QC
MTD	NO	NO

NOTES:

- INDIVIDIAL LIFT THICKNESSES OF EACH MIX WILL BE NO LESS
 THAN (3) TIMES NOMINAL MAXIMUM AGGREGATE SIZE AND NO
 MORE THAN FIVE (5) TIMES NOMINAL AGGREGATE MAXIMUM
 SIZE, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- FOR DESIGN PURPOSES, MIXTURE WEIGHT FOR ALL MIXES
 IS DETERMINED TO BE 112.0 lb./s.y./in., UNLESS OTHERWISE
 NOTED
- 3) HMA SHOULDER LOWER LIFTS AND HMA SHOULDER TOP LIFT WILL BE PAID FOR AS HMA SHOULDERS, 8"

7. ENVIRONMENTAL REVIEWS

PRIOR TO THE USE OF ANY PROPOSED BORROW AREAS, USE AREAS (TEMPORARY ACCESS ROADS, DETOURS, RUN-AROUNDS, ETC.) AND/OR WASTE AREAS, THE CONTRACTOR SHALL FILE THE REQUIRED ENVIRONMENTAL RESOURCE REQUEST SURVEYS ACCORDING TO SECTION 107.22 OF THE STANDARD SPECIFICATIONS. THESE SURVEYS ARE REQUIRED IN ORDER FOR THE DEPARTMENT TO CONDUCT CULTURAL AND BIOLOGICAL RESOURCE SURVEYS FOR THE PROPOSED SITE.

THE REQUIRED ENVIRONMENTAL RESOURCE DOCUMENTATION SHALL INCLUDE THE FOLLOWING:

BDE FORM 2289 (BORROW SITE REVIEW)
BDE FORM 2290 (WASTE/USE AREA REVIEW)
A LOCATION MAP SHOWING THE SIZE LIMITS AND LOCATION OF THE USE AREA
COLOR PHOTOGRAPHS DEPICTING THE USE AREA
BORROW AREA ENTRY AGREEMENT FORM D4 PI0101

PRIOR TO ANY WASTE MATERIALS BEING REMOVED FROM THE CONSTRUCTION SITE THE REQUIRED ENVIRONMENTAL RESOURCE SURVEYS SHALL BE OBTAINED AND FILED BY THE CONTRACTOR. EXCESS WASTE PRODUCTS REMOVED FROM THE CONSTRUCTION SITE SHALL BE DISPOSED OF AS REQUIRED IN SECTION 202.03 OF THE STANDARD SPECIFICATIONS.

ANY PROTRUDING METAL BARS SHALL BE REMOVED PRIOR TO THE DISPOSAL OF BROKEN CONCRETE AT APPROVED DISPOSAL SITES.

PLEASE NOTE THAT A MINIMUM OF FOUR WEEKS SHALL BE ALLOWED FOR THE DISTRICT TO OBTAIN THE REQUIRED WASTE SITE ENVIRONMENTAL CLEARANCES AND SIX WEEKS FOR THE REQUIRED BORROW SITE ENVIRONMENTAL CLEARANCES.

8, PROPERTY OWNER ACCESS REQUIREMENT

ACCESS MUST BE MAINTAINED TO ALL EXISTING PROPERTIES DURING THE CONSTRUCTION PER ARTICLE 107.09 UNLESS ARRANGEMENTS ARE MADE IN WRITING BY THE CONTRACTOR WITH THE PROPERTY OWNERS WITH A COPY TO THE ENGINEER FOR SHORT-TERM CLOSURES.

COMMITMENTS

COMMITMENTS ARE NOT TO BE ALTERED WITHOUT THE WRITTEN APPROVAL OF ALL PARTIES TO WHICH THE COMMITMENT WAS MADE.

NO COMMITMENTS HAVE BEEN MADE FOR THIS PROJECT.

TERRA ENGINEERING LTD.

USER NAME = RundD	DESIGNED - XEL	REVISED -
	DRAWN - XEL	REVISED -
PLOT SCALE = 2.000 '/in.	CHECKED - CEM	REVISED -
PLOT DATE = 1/21/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	GENERAL NOTES				
GENERAL NOTES		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
RTE. SECTION COUNTY SHEETS NO.					
OS 130 OVER MOD GREEK			CONTRACT	NO 68	J42
SHEET 1 OF 1 SHEETS STA. TO STA.		ILLINOIS FED. A	ND PROIECT		-

100%STATE	
BRIDGE	
0047	

	·			0047
ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	090-0043
20200600	EXCAVATING AND GRADING EXISTING SHOULDER	UNIT	10.6	10.6
28000400	PERIMETER EROSION BARRIER	FOOT	127	127
28100107	STONE RIPRAP, CLASS A4	SQ YD	23	23
28200200	FILTER FABRIC	SQ YD	23	23
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	572	572
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	50	50
40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	4	4
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	38	38
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	354	354
50102400	CONCRETE REMOVAL	CU YD	11	11
50300255	CONCRETE SUPERSTRUCTURE	CU YD	11	11
50300300	PROTECTIVE COAT	SQ YD	27	27
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	1,330	1,330
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1,500	1,500

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	USER NAME = RundD	DESIGNED - XEL	REVISED -
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	PLOT SCALE = 20.000 / in.	CHECKED - CEM	REVISED -
	PLOT DATE = 3/10/2025	DATE -	REVISED -

SHEET

SUMMARY OF QUANTITIES		F.A.S. SECTION COUNTY TOTAL SHEET NO.					
US 150 OVER MUD CREEK		2466	(6BR-1)BRR		TAZEWELL	37	3
OS 130 OVER WOD CHEEK					CONTRACT	NO. 68	J42
OF SHEETS STA	TO STA.		ILLINOIS	EED AII	DECT		

CONSTR. CODI
100% STATE
BRIDGE
0047

				0047
ITEM NO.	DESCRIPTION	UNIT	TOTALQUANTITY	090-0043
50800515	BAR SPLICERS	EACH	24	24
52000110	PREFORMED JOINT STRIP SEAL	FOOT	72	72
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	12	12
52100510	ANCHOR BOLTS, 3/4"	EACH	24	24
59000200	EPOXY CRACK INJECTION	FOOT	93	93
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	638	638
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4
63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	4	4
63200310	GUARDRAIL REMOVAL	FOOT	804	804
67100100	MOBILIZATION	L SUM	1	1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1
70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	14	14

^{*=} SPECIALTY ITEM



	USER NAME = RundD	DESIGNED -	XEL	REVISED	-
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,	PLOT SCALE = 20.000 / in.	CHECKED -	CEM	REVISED	-
	PLOT DATE = 1/22/2025	DATE -		REVISED	-

	SUMMAR	Y OF QUA	ANTITIE	:S	F.A.S. RTE	
	US 150 0	VFR MIII	CREE	:ĸ	2466	
	00 130 0	VEII WO	OIILL	-iX		
SHEET	OF	SHEETS	STA.	TO STA.		

CONSTR. CODE
100% STATE
BRIDGE
0047
090-0043
313
313

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	090-0043	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	313	313	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	313	313	
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2	
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2	
72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1,629	1,629	
78200006	GUARDRAIL REFLECTORS, TYPE B	EACH	18	18	
78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	12	12	
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	543	543	
X5015225	PIPE CULVERT REMOVAL (SPECIAL)	FOOT	24	24	
X6050310	FILLING INLETS (SPECIAL)	EACH	2	2	
Z0001002	GUARDRAIL AGGREGATE EROSION CONTROL	TON	210	210	
Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	12	12	
X5051206	STRUCTURAL STEEL REPAIR	POUND	240	240	

^{*=} SPECIALTY ITEM



ij	USER NAME = RundD	DESIGNED XEL	REVISED =
		DRAWN - XEL	REVISED -
	PLOT SCALE = 20.000 ' / in.	CHECKED CEM	REVISED -
•	PLOT DATE = 3/10/2025	DATE	REVISED =

CONSTR. CODE
100%STATE
BRIDGE
0047

	<u></u>			0047
ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	090-0043
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	91	91
Z0073200	TEMPORARY SHORING AND CRIBBING	EACH	3	3

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	USER NAME = RundD	DESIGNED -	XEL	REVISED	-
_		DRAWN -	XEL	REVISED	-
,	PLOT SCALE = 20.000 / in.	CHECKED -	CEM	REVISED	-
	PLOT DATE = 1/23/2025	DATE -		REVISED	-

	SUMMA	RY OF QU	ANTITIES	
	US 150	OVER MU	D CREEK	
SHEET	OF	SHEETS	STA.	TO STA.

F.A.S. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEE NO.
2466	(6BR-1)BRR		TAZEWELL	37	6
			CONTRACT	NO. 68	3J42
	ILLINOIS	FED. AI	D PROJECT		

DRAINAGE SCHEDULE									
	28000400	28100107	28100107 28200200	X5015225	X6050310				
	PERIMITER EROSION BARRIER	STONE RIPRAP, CLASS A4	FILTER FABRIC	PIPE CULVERT REMOVAL (SPECIAL)	FILLING INLETS (SPECIAL)				
STATION TO STATION	FOOT	SQ YD	SQ YD	FOOT	EACH				
334+25.00 TO 339+99.88									
339+99.88 TO 341+08.22									
341+08.22 TO 343+90.00	127.5	23.0	23.0	24.0	2.0				
SUBTOTAL	127.5	23.0	23.0	24.0	2.0				
TOTAL	128	23	23	24	2				

	GUARDRAIL SCHEDULE								
	63000001 63100085		63100169	63200310	72501000	78200006	78200011	Z0001002	
	STEEL PLATE BEAM GUARDRAIL, TYPE A 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 6	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	GUARDRAIL REMOVAL	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL REFLECTORS, TYPE B	BARRIER WALL REFLECTORS, TYPE C	GUARDRAIL AGGREGATE EROSION CONTROL	
STATION TO STATION	FOOT	EACH	EACH	FOOT	EACH	EACH	EACH	TON	
334+25.00 TO 339+99.88	319.2	2	2	398.4	2.0	9.0		105.1	
339+99.88 TO 341+08.22							12.0		
341+08.22 TO 343+90.00	319.2	2	2	405.6	2.0	9.0		105.1	
				_				8	
SUBTOTAL	638.4	4	4	804.0	4.0	18.0	12.0	210.2	
TOTAL	639	4	4	804	4	18	12	211	

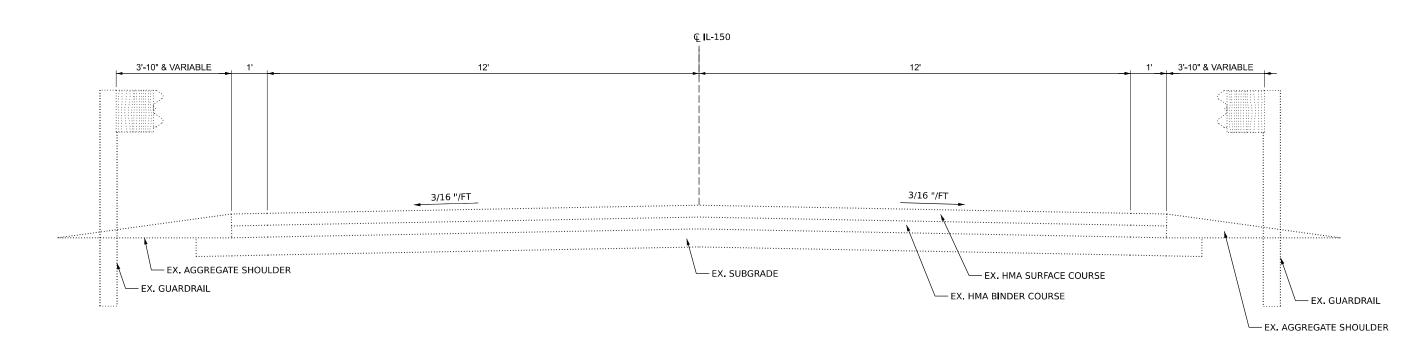
	TRAFFIC CONTROL SCHEDULE										
	67100100	70100405	70100500	70106500	70106700	70107025	70400100	70400200	70600250	70600350	
	MOBILIZATION	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	TRAFFIC CONTROL AND PROTECTION STANDARD 701326	TEMPORARY BRIDGE TRAFFIC SIGNALS	TEMPORARY RUMBLE STRIPS	CHANGEABLE MESSAGE SIGN	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	
STATION TO STATION	L SUM	EACH	LSUM	EACH	EACH	CAL DA	FOOT	FOOT	EACH	EACH	
334+25.00 TO 339+99.88				0.5	3		100.0	100.0	1	1	
339+99.88 TO 341+08.22							112.5	112.5			
341+08.22 TO 343+90.00				0.5	3		100.0	100.0	1	1	
334+25.00 TO 343+90.00	1	1	1			14					
SUBTOTAL	1	1	1	1	6	14	312.5	312.5	2	2	
TOTAL	1	1	1	1	6	14	312.5	312.5	2	2	

	PAVEMENT SCHEDULE									
	20200600 40600290 40600982 40604060					48203029	78001110	78300202		
	EXCAVATING AND GRADING EXISTING SHOULDER	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	HOT-MIX ASPHALT SURFACE COURSE IL- 9.5 MIX "D" N50	HOT-MIX ASPHALT SURFACE REMOVAL 2"	HOT-MIX ASPHALT SHOULDERS 8"	PAINT PAVEMENT MARKING - LINE 4"	PAVEMENT MARKING REMOVAL - WATER BLASTING		
STATION TO STATION	UNIT	POUND	SQ YD	TON	SQ YD	SQ YD	FOOT	SQ FT		
334+25.00 TO 339+99.88	5.2	279.9	25.0	1.8	15.9	173.9	865.5	288.5		
339+99.88 TO 341+08.22										
341+08.22 TO 343+90.00	5.4	292.4	25.0	2.4	21.8	179.6	763.9	254.6		
	*							w.		
SUBTOTAL	10.6	572.3	50.0	4.2	37.7	353.6	1629.4	543.1		
TOTAL	10.6	573	50	5	38	354	1630	544		

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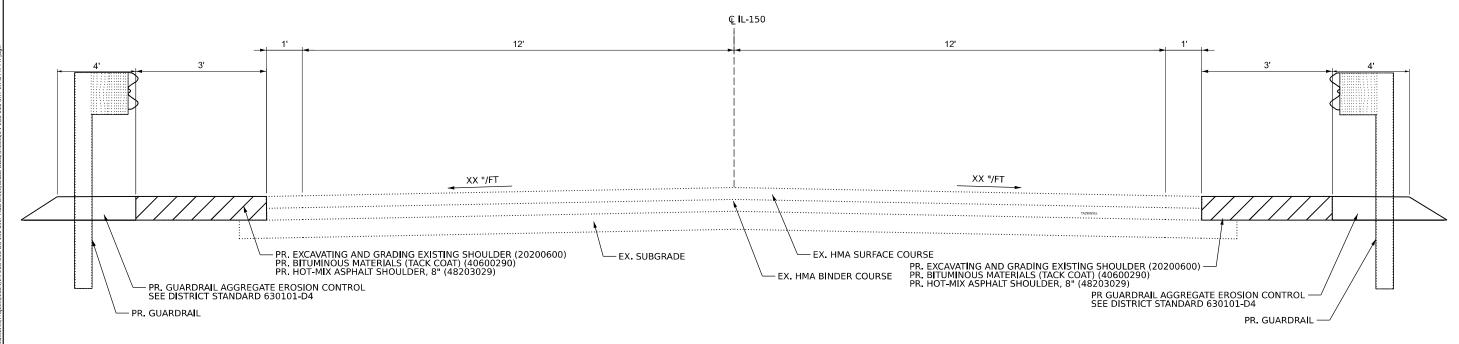
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	DRAWN - XEL	REVISED -
PLOT SCALE = 2.000 / in.	CHECKED - CEM	REVISED -
PLOT DATE = 3/12/2025	DATE -	REVISED -

	SCHEDULE OF QUANTITIES							F.A.S. RTE	SECTION		COUNTY	TOTAL SHEETS	
	US 150 OVER MUD CREEK						2466	(6BR-1)BRR TAZEW			37	7	
										CONTRACT	NO. 68	3J42	
	SHEET	1	OF	1	SHEETS	STA.	TO STA.		ILLINOIS	FED. AID	PROJECT		



EXISTING TYPICAL SECTION

STA. 339+82.45 TO STA. 340+53.75 STA. 340+53.75 TO STA. 341+25.04



PROPOSED TYPICAL SECTION

STA. 337+25.00 TO STA. 339+89.37 STA. 341+04.04 TO STA. 343+90.00

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	USER NAME = RundD	DESIGNED - XEL	REVISED -
		DRAWN - XEL	REVISED -
	PLOT SCALE = 4.000 / in.	CHECKED - CEM	REVISED -
1	PLOT DATE = 3/11/2025	DATE -	REVISED -

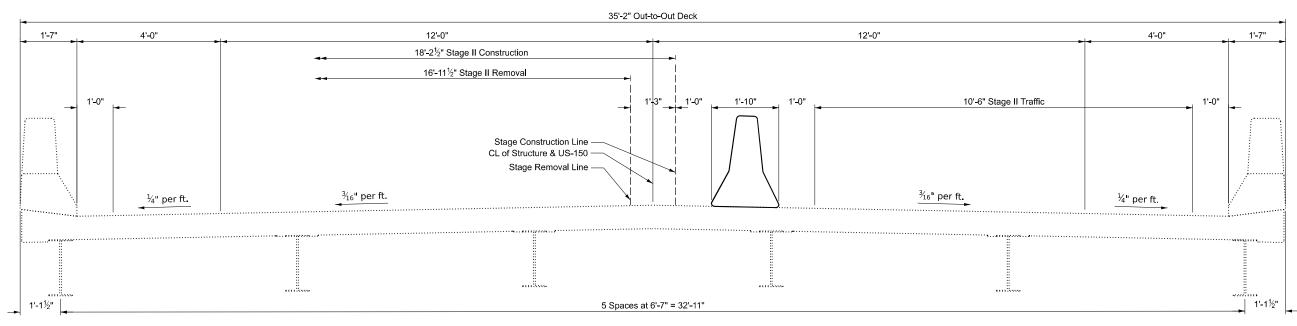
STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	

PRES	PRESTAGE ROADWAY WIDENING TYPICAL SECTIONS							RTE	
	US 150 OVER MUD CREEK								₂ 246
	OU 130 OVER MIOD SHEEK								
	CHEET	4	OE	- 1	сысстс	CTA	TO CTA		

F.A.S. RTE	SECT	rion	COUNTY	TOTAL SHEETS	SHEET NO.	
2466	(6BR-1	1)BRR	TAZEWELL	37	8	
				CONTRACT	NO. 68	J42
		ILLINOIS	FED. AI	D PROJECT		

STAGING TYPICAL SECTION - STAGE I

STA. 339+82.45 TO STA. 340+53.75 STA. 340+53.75 TO STA. 341+25.04



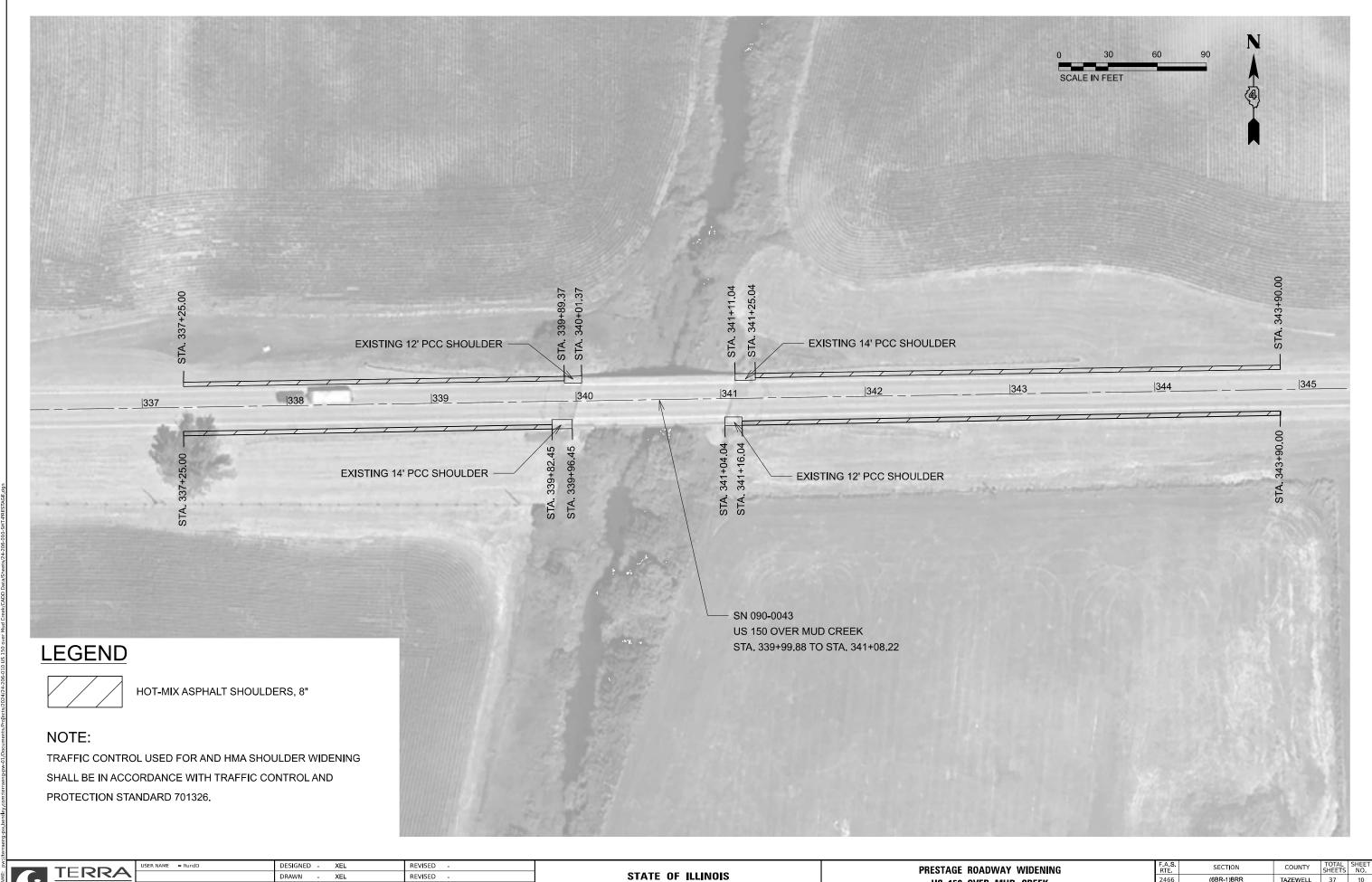
STAGING TYPICAL SECTION - STAGE II

STA. 337+25.00 TO STA. 339+89.37 STA. 337+04.04 TO STA. 343+90.00

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USER NAME = RundD	DESIGNED - XEL	REVISED -
	DRAWN - XEL	REVISED -
PLOT SCALE = 4.000 / in.	CHECKED - CEM	REVISED -
PLOT DATE = 1/21/2025	DATE -	REVISED -

					F.A.S. RTE	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
US 150 OVER MUD CREEK				2466	(6BR-1)BRR		TAZEWELL	37	9		
US 130 OVER MIDD GREEK						CONTRACT	NO. 68	3J42			
	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS	FED. AI	D PROJECT		

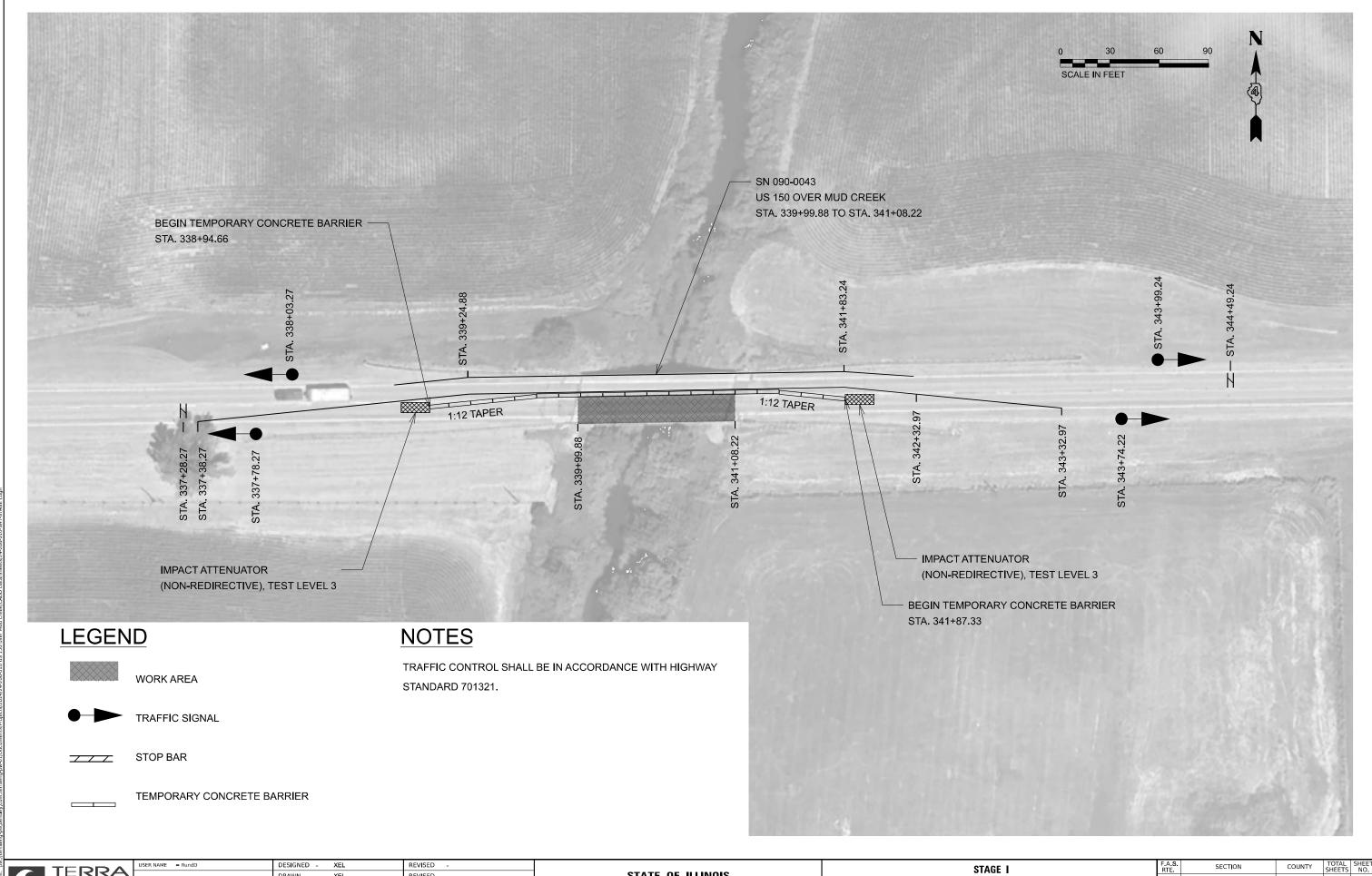


DRAWN - XEL CHECKED - CEM REVISED -

DEPARTMENT OF TRANSPORTATION

US 150 OVER MUD CREEK OF SHEETS STA.

COUNTY TOTAL SHEET NO.
TAZEWELL 37 10
CONTRACT NO. (6BR-1)BRR CONTRACT NO. 68J42



TERRA ENGINEERING LTD

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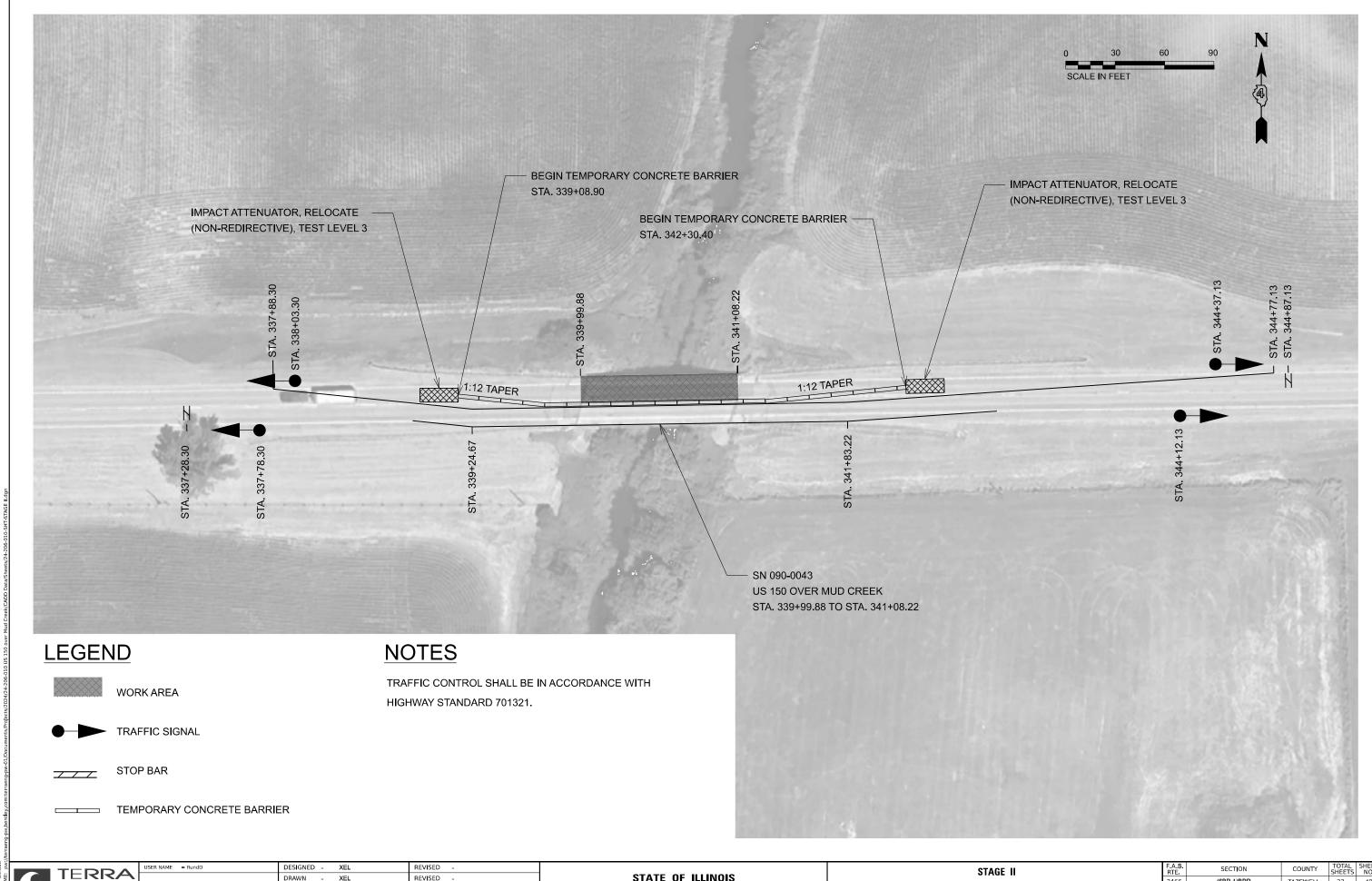
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE I
US 150 OVER MUD CREEK

SHEET OF SHEETS STA.

F.A.S. SECTION COUNTY TOTAL SHEETS NO. 2466 (6BR-1)BRR TAZEWELL 37 11

LILINOIS EED AD PROJECT



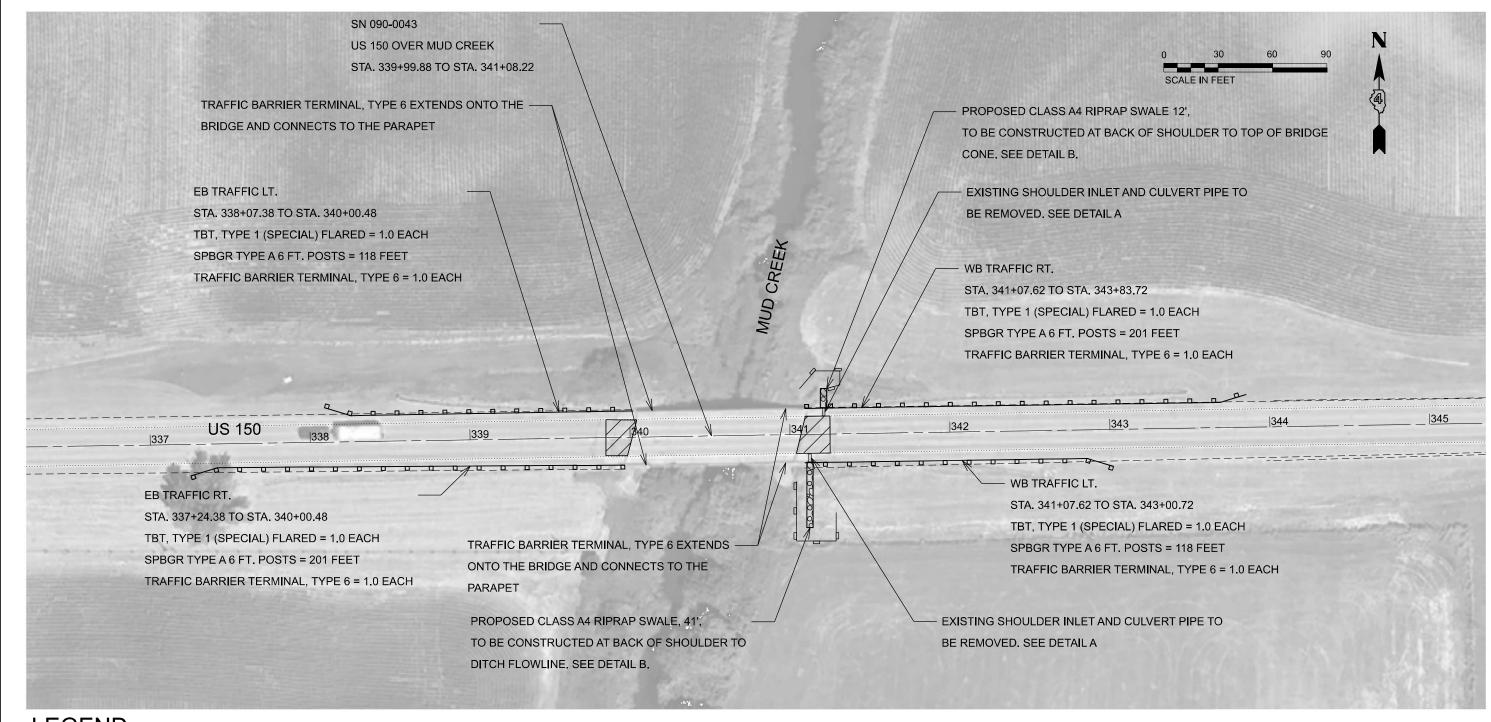
TERRA ENGINEERING LTD

USER NAME = RundD	DESIGNED - XEL	REVISED -
	DRAWN - XEL	REVISED -
PLOT SCALE = 60.000 / in.	CHECKED - CEM	REVISED -
PLOT DATE = 1/21/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	STAGE II			F.A.S. RTE	SECTION		COUNTY	
US 150 C	OVER MUI	D CREEK		2466	(6BR-1)BRR		TAZEWELL	ĺ
03 130 0	VEIL INO	UNLLK					CONTRACT	
OF	SHEETS	STA.	TO STA.		ILLINOIS F	FED. AI	D PROIECT	Ī

SHEET



LEGEND



STONE DUMPED RIPRAP CLASS A4 FILTER FABRIC



HMA SURFACE REMOVAL 2" HMA SURFACE COURSE 2" SEE DETAIL C



GUARDRAIL NOTES:

- 1. TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED AND TRAFFIC BARRIER TERMINAL, TYPE 6 ARE BOTH ASSUMED AS 37.5' SECTIONS.
- 2. BEGINNING LENGTH OF NEED IS CALCULATED FROM POST 3, 12.5' FROM THE FACE OF THE TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED.



SER NAME = RundD	DESIGNED - XEL	REVISED -
	DRAWN - XEL	REVISED -
LOT SCALE = 60.000 / in.	CHECKED - CEM	REVISED -
LOT DATE = 1/21/2025	DATE -	REVISED -

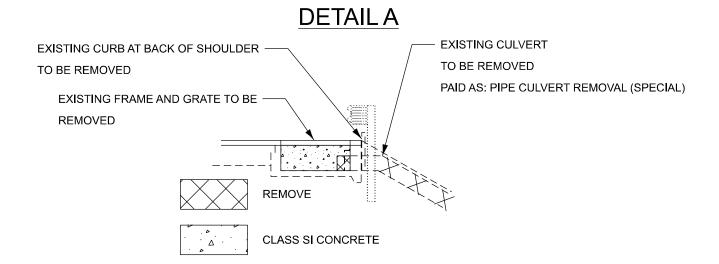
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

GENERAL PLAN						
	US	150	OVER	MU	D CREEK	
SHEET		OF	SH	IEETS	STA.	

TO STA.

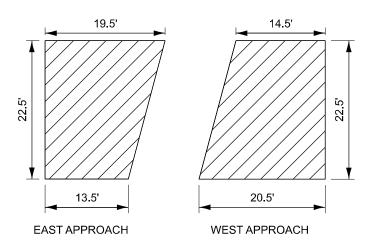
SCALE:

(6BR-1)BRR TAZEWELL 37 13 CONTRACT NO. 68J42

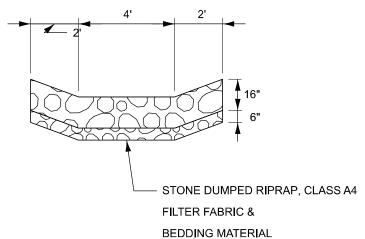


PAID AS: FILLING INLETS, SPECIAL = 1.0 EACH (SEE SPECIAL PROVISIONS)

DETAIL C



DETAIL B



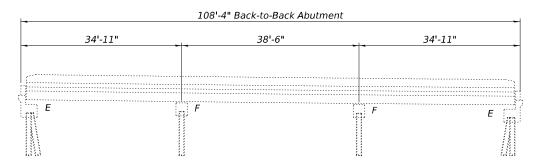
ME: pw:		TERRA	
FILE NA	1	ENGINEERING LTD.	

USER NAME = RundD	DESIGNED - XEL	REVISED -
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PLOT SCALE = 60.000 / in.	CHECKED - CEM	REVISED -
PLOT DATE = 3/12/2025	DATE -	REVISED -

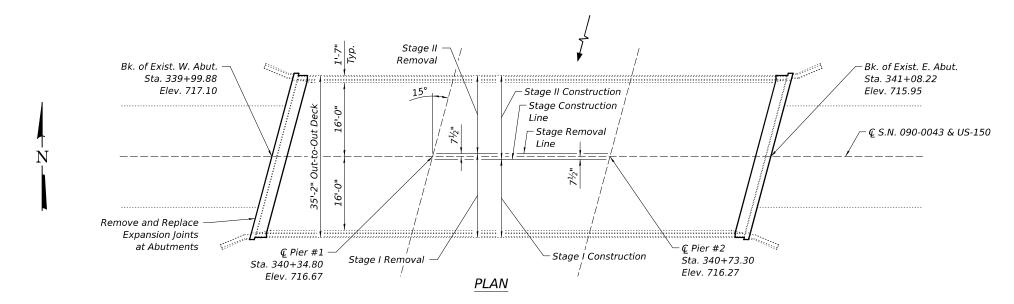
					SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
US 150 OVER MUD CREEK				2466	(6BR-1)BRR		TAZEWELL	37	14
US 150 OVER WIOD CHEEK						CONTRACT	NO. 68	J42	
SHEET OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AI		D PROJECT			

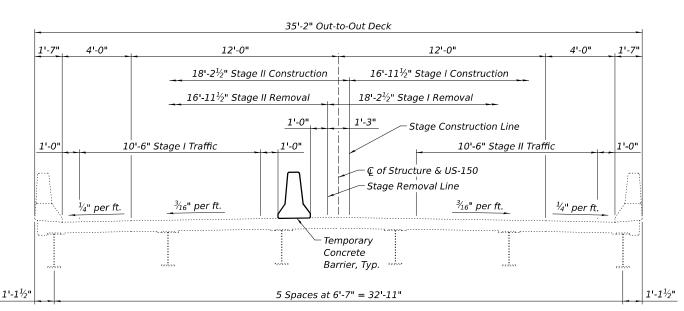
Existing Structure: S.N. 090-0043 was originally constructed in 1955 as SBI Route 9, Section 6BR and the superstructure deck of the original structure was removed and replaced as Section 6BR-I in 1984. The existing structure consists of 3 spans and is a $7\frac{1}{2}$ " thick reinforced concrete deck supported by 6, W24x84 steel beams. Back-to-back of abutments is 108'-4" and out-to-out of deck is 35'-2". Traffic is to remain open with staged construction.

Salvage: None



ELEVATION





CROSS SECTION

INDEX OF SHEETS

- General Plan & Elevation
- West Abutment Expansion Joint Details
- East Abutment Expansion Joint Details
- Parapet Removal & Replacement Details Preformed Joint Strip Seal
- Bar Splicer Assembly & Mechanical Splicer Details
- Beam End Repairs
- Bearing Details
- West Abutment Substructure Repairs
- East Abutment Substructure Repairs 10.
- 11. West Pier Substructure Repairs
- 12. East Pier Substructure Repairs

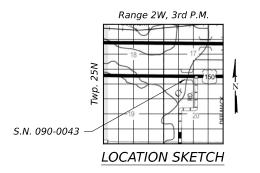
SCOPE OF WORK

- Remove and replace existing expansion joints with new preformed joint strip seals.
- Jack and crib existing steel beams as indicated in the plans. Perform beam end repairs as indicated in the plans. Remove and replace existing bearings with new elastomeric bearings at abutments.
- Apply Protective Coat to the top and inside faces of parapets, bridge deck, and hatch block.
- Perform substructure unit repairs as indicated in the plans.

TOTAL BILL OF MATERIAL

Item	Unit	Total
Concrete Removal	Cu Yd	10.7
Concrete Superstructure	Cu Yd	10.5
Protective Coat	Sq Yd	27
Furnishing and Erecting Structural Steel	Pound	1,330
Reinforcement Bars, Epoxy Coated	Pound	1,500
Bar Splicers	Each	24
Preformed Joint Strip Seal	Foot	72
Elastomeric Bearing Assembly, Type I	Each	12
Anchor Bolts, 3/4"	Each	24
Epoxy Crack Injection	Foot	88
Jack and Remove Existing Bearings	Each	12
Structural Steel Repair	Pound	240
Structural Repair of Concrete	Ca Et	91
(Depth Equal to or Less than 5 Inches)	Sq Ft	91
Temporary Shoring and Cribbing	Each	3

* Apply to new concrete only.



GENERAL PLAN & ELEVATION **US 150 OVER MUD CREEK** US 150 (FAS 2466) - SECTION (6BR-1)BRR TAZEWELL COUNTY STATION 340+54.05 *STRUCTURE NO. 090-0043*

(Looking East)

USER NAME = DESIGNED - AJF REVISED CHECKED - DDB REVISED REVISED PLOT DATE = CHECKED - DDB REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

Fahrenheit.

GENERAL NOTES

All structural steel shall be AASHTO M 270 Grade 36 unless otherwise noted.

other loose or potentially detrimental foreign material shall be removed from the

the cost will be included in the pay item covering removal of the existing concrete.

Plan dimensions and details relative to existing plans are subject to nominal

affecting new construction and make necessary approved adjustments prior to

Existing reinforcement bars extending into the removal area shall be cleaned,

Joint openings shall be adjusted according to article 520.04 of the standard

specifications when the deck is poured at an ambient temperature other than 50°

for the quantity actually furnished at the unit price bid for the work.

or anchorage system. Cost included with Concrete Removal.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and

surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise

noted. Removal shall be accomplished by methods that will not damage the steel and

construction variations. The Contractor shall field verify existing dimensions and details

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

straightened and incorporated into the new construction. Any reinforcement bars that

are damaged during Concrete Removal shall be replaced with an approved bar splicer

Reinforcement bars designated (E) shall be epoxy coated.

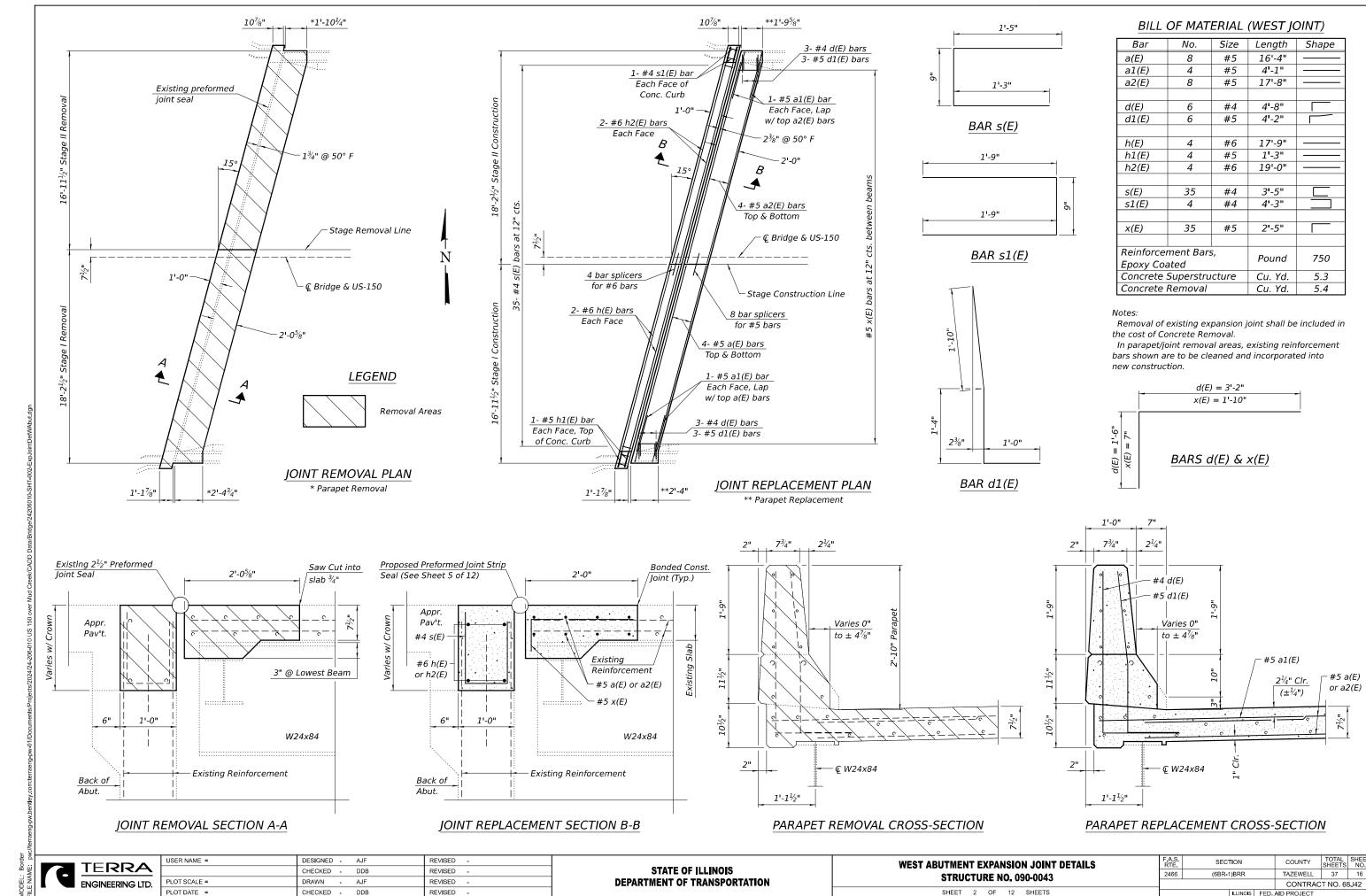
GENERAL PLAN AND ELEVATION STRUCTURE NO. 090-0043 SHEET 1 OF 12 SHEETS

SECTION COUNTY 2466 (6BR-1)BRR TAZEWELL 37 15 CONTRACT NO. 68J42

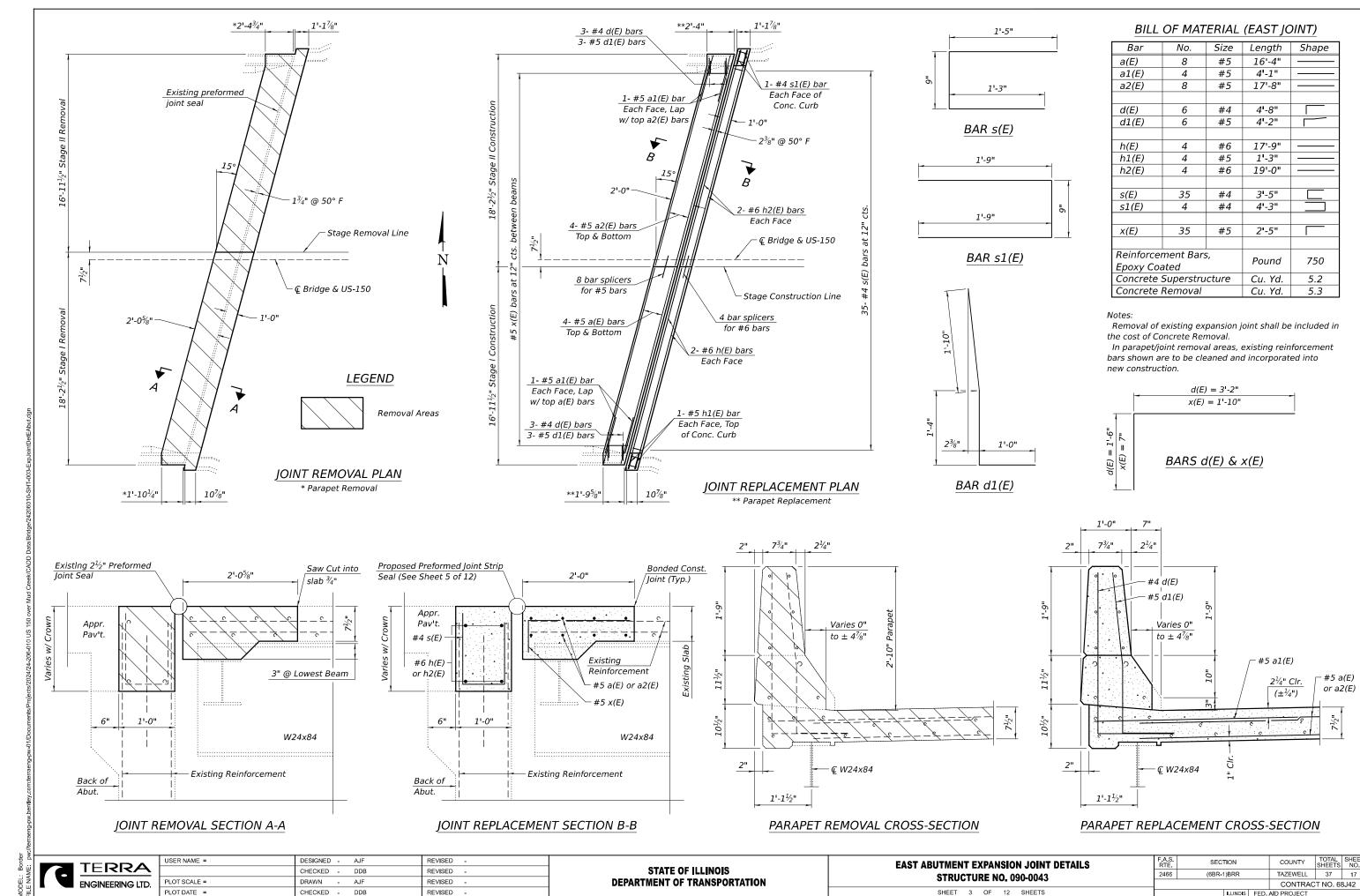
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TERRA

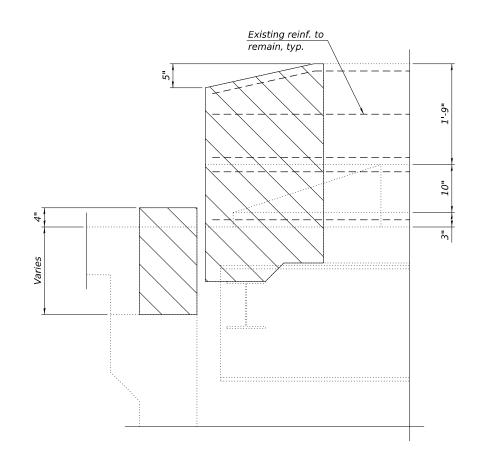
ENGINEERING LTD.



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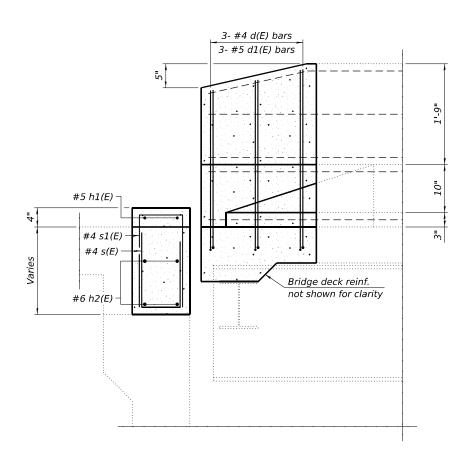


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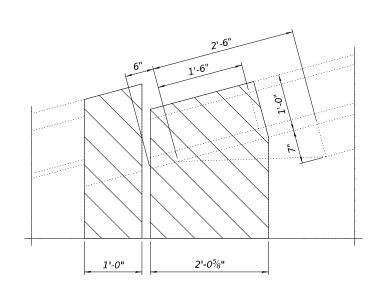
REMOVAL OF EXISTING PARAPET ELEVATION

(Showing NW Corner - Others Similar)



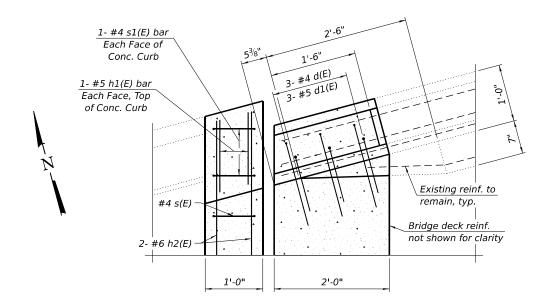
PROPOSED PARAPET ELEVATION

(Showing NW Corner - Others Similar)



REMOVAL OF EXISTING PARAPET PLAN

(Showing NW Corner - Others Similar)



PROPOSED PARAPET PLAN

(Showing NW Corner - Others Similar)

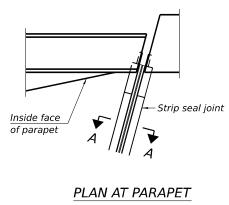
LEGEND

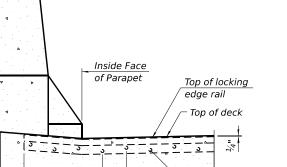


Removal Areas



USER NAME =	DESIGNED - AJF	REVISED -
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PLOT SCALE =	DRAWN - AJF	REVISED -
PLOT DATE =	CHECKED - DDB	REVISED -



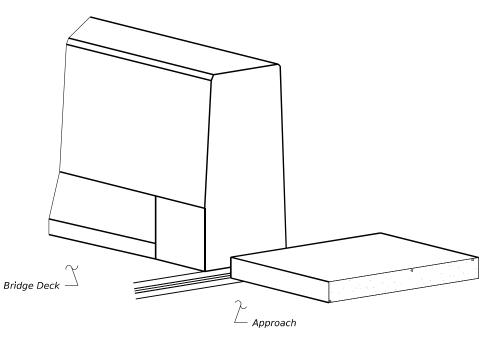


6" cts.,

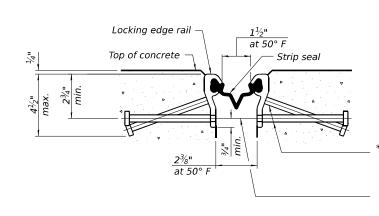
typ.

%" Ø x 6" Studs

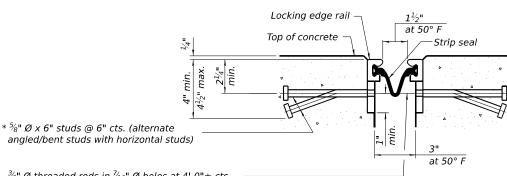
SECTION AT PARAPET



TRIMETRIC VIEW



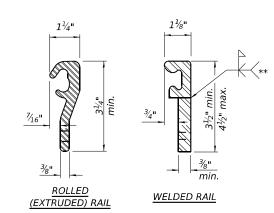
SHOWING ROLLED RAIL JOINT



 $\frac{3}{8}$ " Ø threaded rods in $\frac{7}{16}$ " Ø 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.

SECTION A-A

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



Notes:

rated movement of 4 inches.

shall be followed.

rail splice detail.

The strip seal shall be made continuous and shall have a minimum thickness of $\frac{1}{4}$ ". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum

The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the $4\frac{1}{2}$ " maximum depth provided the anchorage system is revised

All steel components shall be galvanized after fabrication

according to Article 520.03 of the Standard Specifications. The Maximum space between locking edge rail segments shall be $\frac{3}{16}$ " and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge

Cost of parapet sliding plates, embedded plates, and anchorage studs included with Preformed Joint Strip Seal. The concrete opening below the strip seal will vary based

on the locking edge rail chosen by the Contractor. Deck and

parapet lengths shown elsewhere in the plans are dimensioned

to the concrete opening, not the joint opening, and are based

on the rolled locking edge rail. If the Contractor elects to use

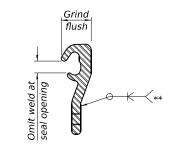
a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the

length of the bridge approach slab.

according to the manufacturer's recommendation. The manufacturer's recommended installation methods

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	72



USER NAME =	DESIGNED	-	AJF	REVISED	-
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PLOT SCALE =	DRAWN	-	AJF	REVISED	-
PLOT DATE =	CHECKED	-	DDB	REVISED	-

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SHOWING WELDED RAIL JOINT

P					TRIP SEAL 90-0043
	SHEET	5	OF	12	SHEETS

A.S. TE.	SECTION	COUNTY	TOTAL SHEETS	SHI
166	(6BR-1)BRR	TAZEWELL	37	1
		CONTRAC	T NO. 68	3J42
	ILLINOIS EED	AID DRO IECT		

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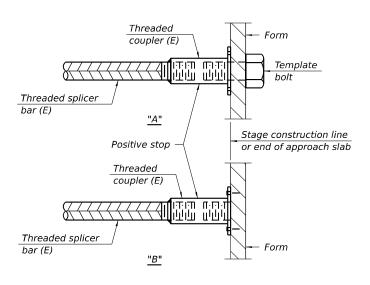
STANDARD BAR SPLICER ASSEMBLY PLAN

Only bar splicer assemblies as presented on the approved QPL list may be used.

Threaded splicer bar length = min. lap length + $1\frac{1}{2}$ " + thread length

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

Location	Bar	No. assemblies	Minimum
Location	size	required	lap length
West Abutment	#5	8	4'-11"
West Abutment	#6	4	5'-11"
East Abutment	#5	8	4'-11"
East Abutment	#6	4	5'-11"

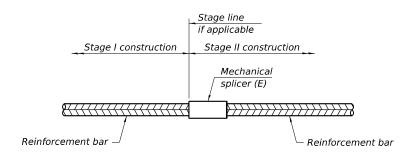


INSTALLATION AND SETTING METHODS

"A": Set bar splicer assembly by means of a template bolt.

"B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

Notes:

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars. Bar splicer assemblies shall be epoxy coated according to the requirements

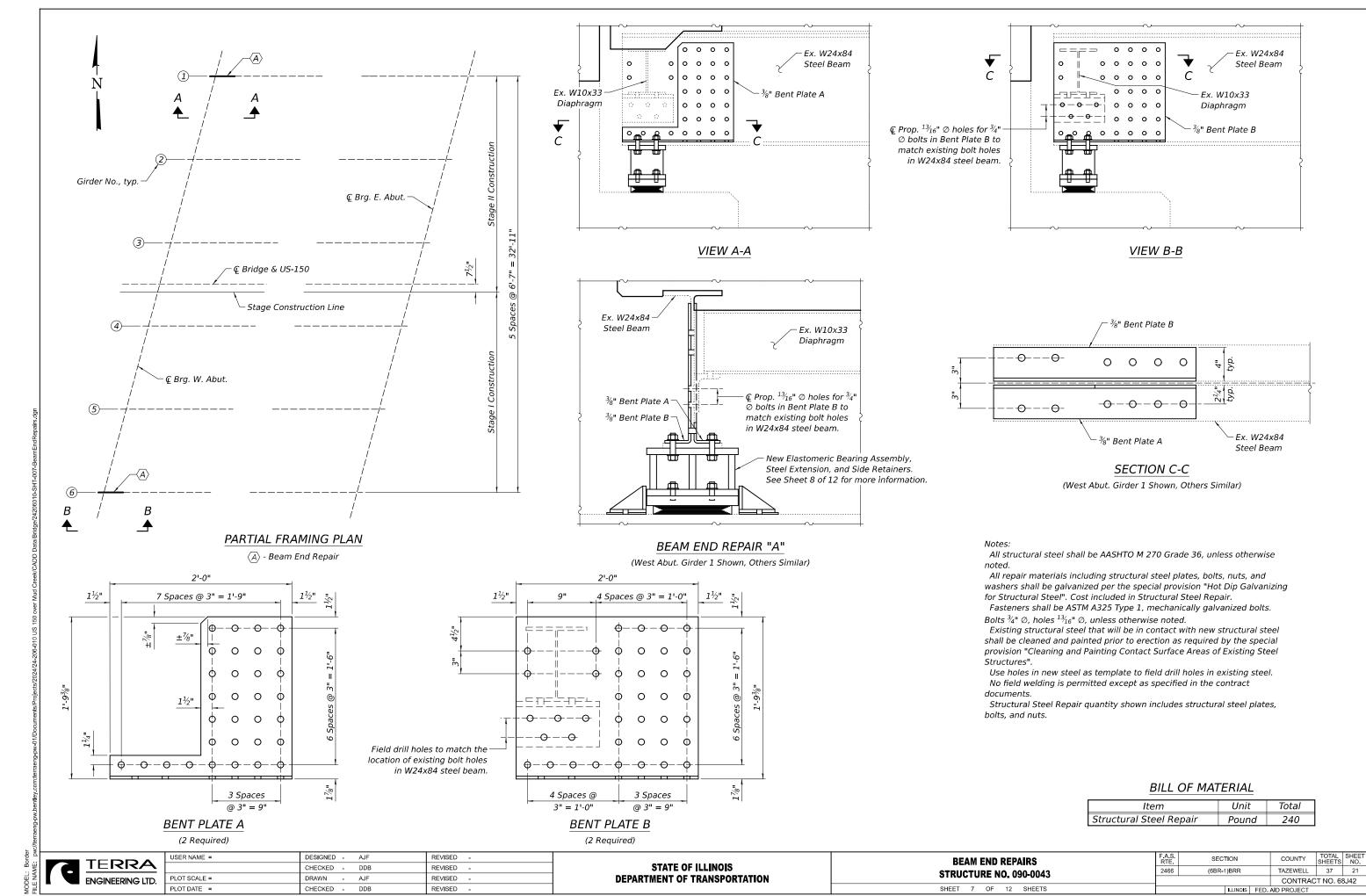
for reinforcement bars. See Section 508 of the Standard Specifications.
See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

5-15-2023



USER NAME =	DESIGNED - AJF	REVISED -
	CHECKED - DDB	REVISED -
PLOT SCALE =	DRAWN - AJF	REVISED -
PLOT DATE =	CHECKED - DDB	REVISED -



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To be removed Existing plate to be removed using the air-arc method and grind smooth all weld material remaining on the bottom falnge. Burn existing anchor bolts flush with existing conrete surface. Grind existing

anchor bolt smooth and seal with epoxy.

EXISTING BEARING REMOVAL DETAIL Cost included with Jack and Remove Existing Bearings.

Notes:

Side retainers and stainless steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.

Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates and shims and shall be placed as shown on the bearing details. Adjusting shim plates, if necessary, shall be placed on top of the steel

extension. No more than two shim plates may be used at each bearing. Cost of shim plates, steel extensions and bolts included with Furnishing and

Erecting Structural Steel. Minimum jack capacity = 15 Tons (Includes weight of all steel, concrete, and

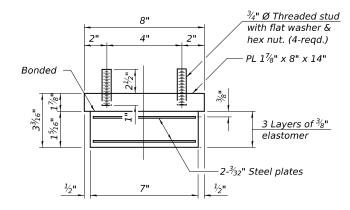
If the analysis submitted to the Contractor for the jacking/temporary support system to be used shows temporary stiffeners are required to prevent web crippling or buckling, the stiffeners shall be steel and bolted to the web. If stiffeners are not required, hardwood timbers shall be installed tightly

between the top and bottom flange to prevent flange rotation. Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

All structural steel shall be AASHTO M 270 Grade 36, unless otherwise noted. All steel included in Furnishing and Erecting Structural Steel including all steel bearing plates, steel extensions, fill and shim plates, side retainers, anchor bolts, nuts, washers, and pintles shall be galvanized according to AASHTO M111 or M232 as applicable.

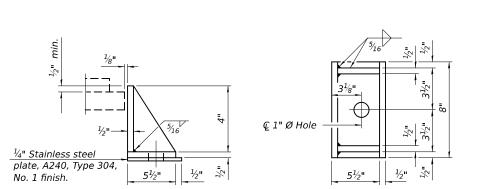
Anchor bolts and side retainers at all supports shall be installed simultaneously with each new Elastomeric Bearing Assembly, Type I unless an equivalent temporary means of lateral restraint is used.

TYPE I ELASTOMERIC EXP. BRG.



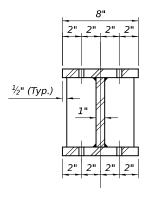
BEARING ASSEMBLY

Shim plates shall not be placed under bearing assembly.



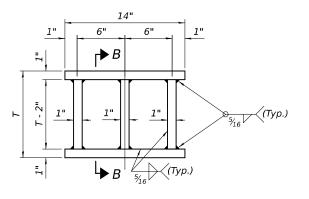
SIDE RETAINER

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



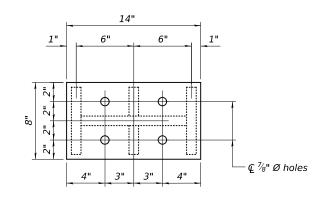
SECTION B-B

Side retainer, typ.

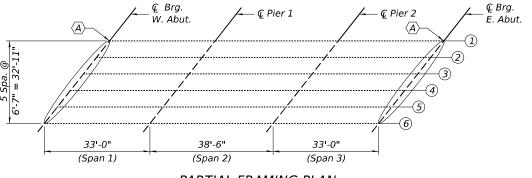


STEEL EXTENSION DETAIL

For dimension "T" see Steel Extension Height Table



PLAN TOP & BOTTOM PLATE



PARTIAL FRAMING PLAN

 $\langle \overline{A} \rangle$ - Bearing Removal and Replacement

STEEL EXTENSION HEIGHT "T" TABLE

Location	Beams 1-3	Beam 4	Beam 5	
Location	and 6	Bealli 4	веан 3	
West Abutment	6 ¹⁵ / ₁₆ "	7 ³ ⁄16"	7 ⁵ ⁄16"	
East Abutment	6 ¹⁵ ⁄16"	7 ¹ / ₈ "	7 ¹ ⁄ ₄ "	

Based on existing plan information. Contractor shall field verify prior to fabrication.

INTERIOR BEAM REACTION TABLE

R₽	(k)	14.8
R Ł	(k)	36.4
R ı	(k)	10.9
R Total	(k)	62.1

(Unfactored Loads)

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Jack and Remove		10
Existing Bearings	Each	12
Elastomeric Bearing	Fach	12
Assembly, Type I	Eacii	12
Furnishing and Erecting	Pound	1,330
Structural Steel	Found	1,330
Anchor Bolts, 3/4"	Each	24

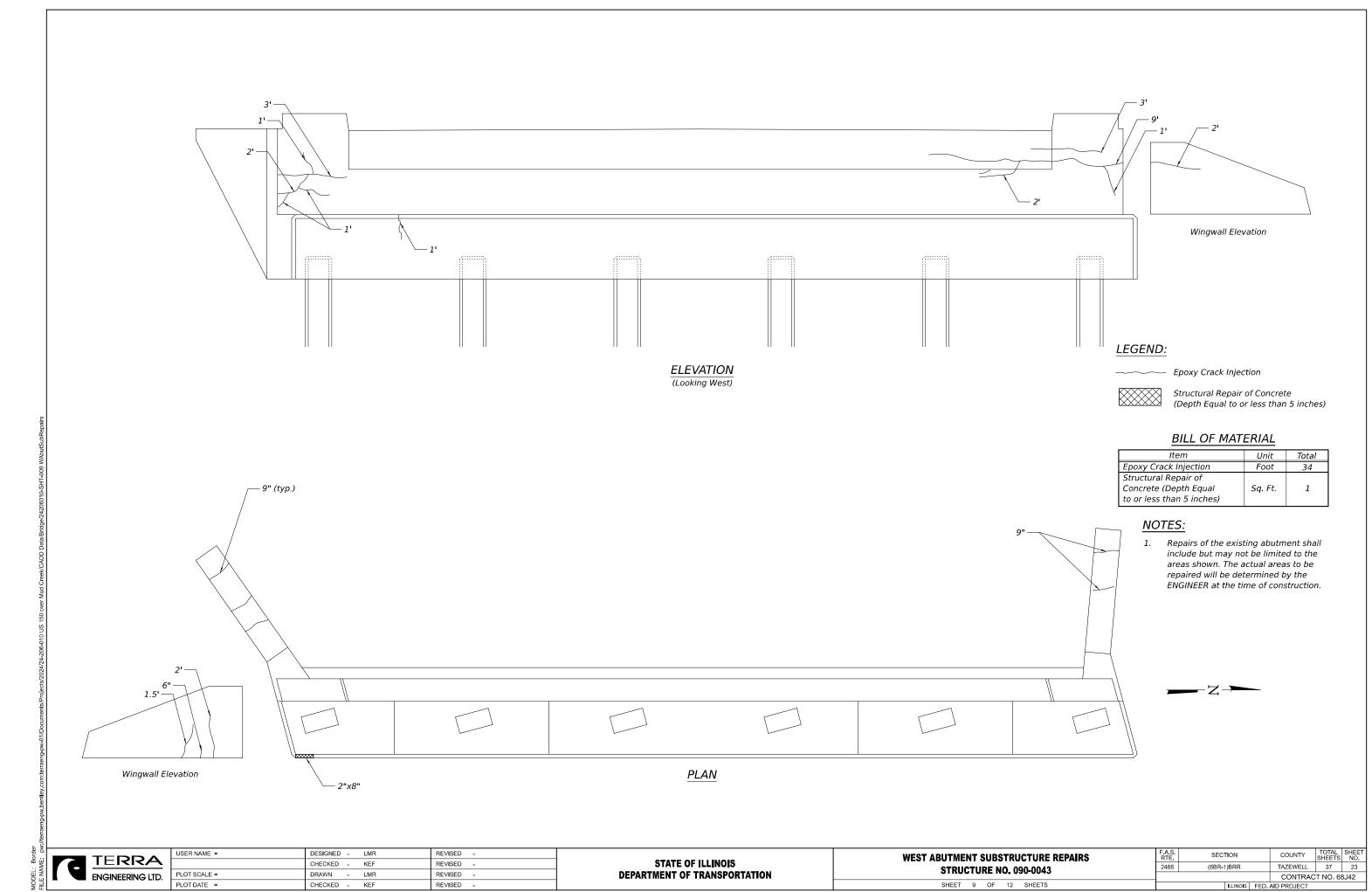


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PLOT SCALE =	DRAWN - TLH	REVISED -
PLOT DATE =	CHECKED - DDB	REVISED -

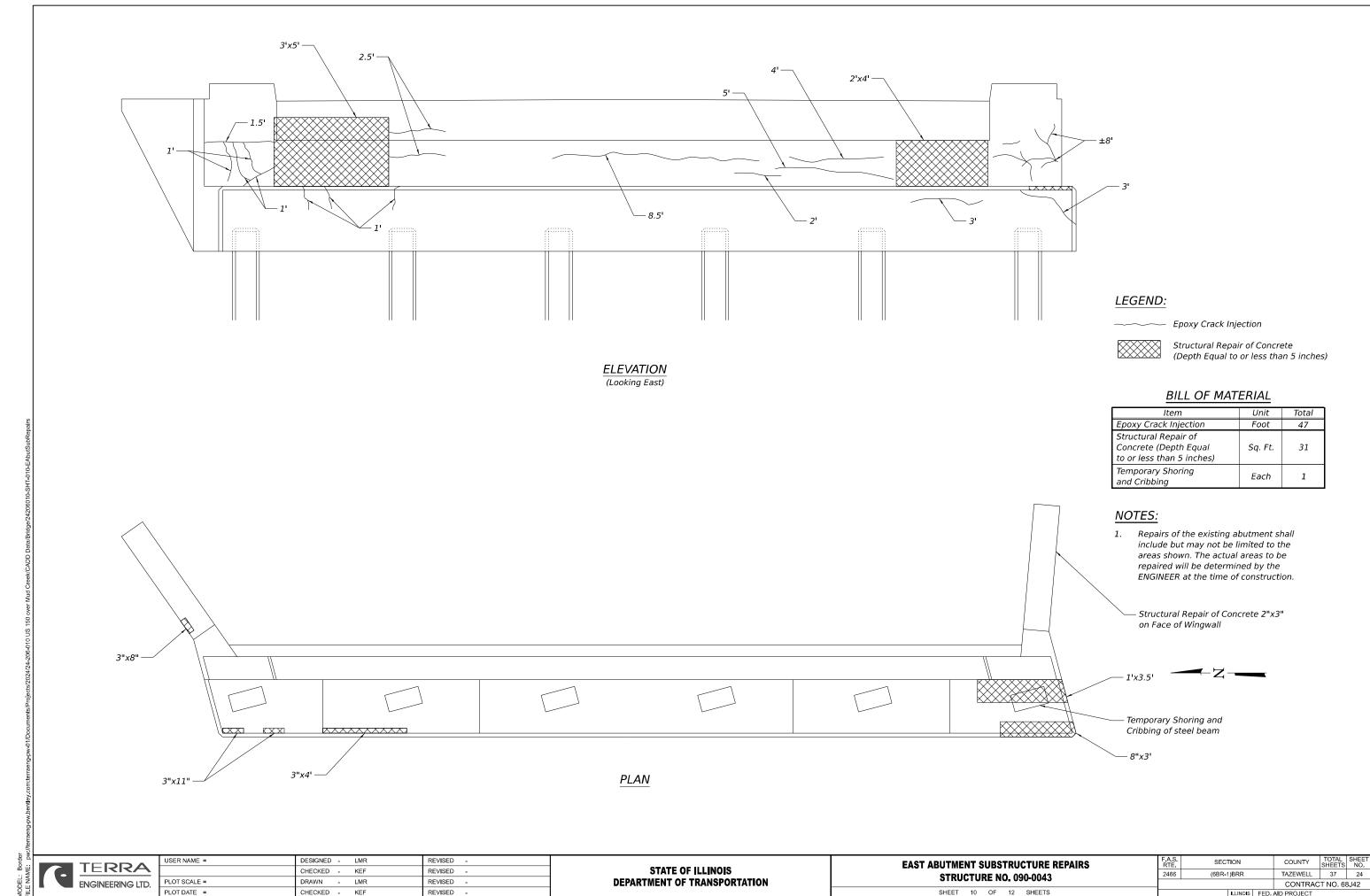
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

		ING I RE N		AILS 90-0043	
SHEET	8	OF	12	SHEETS	

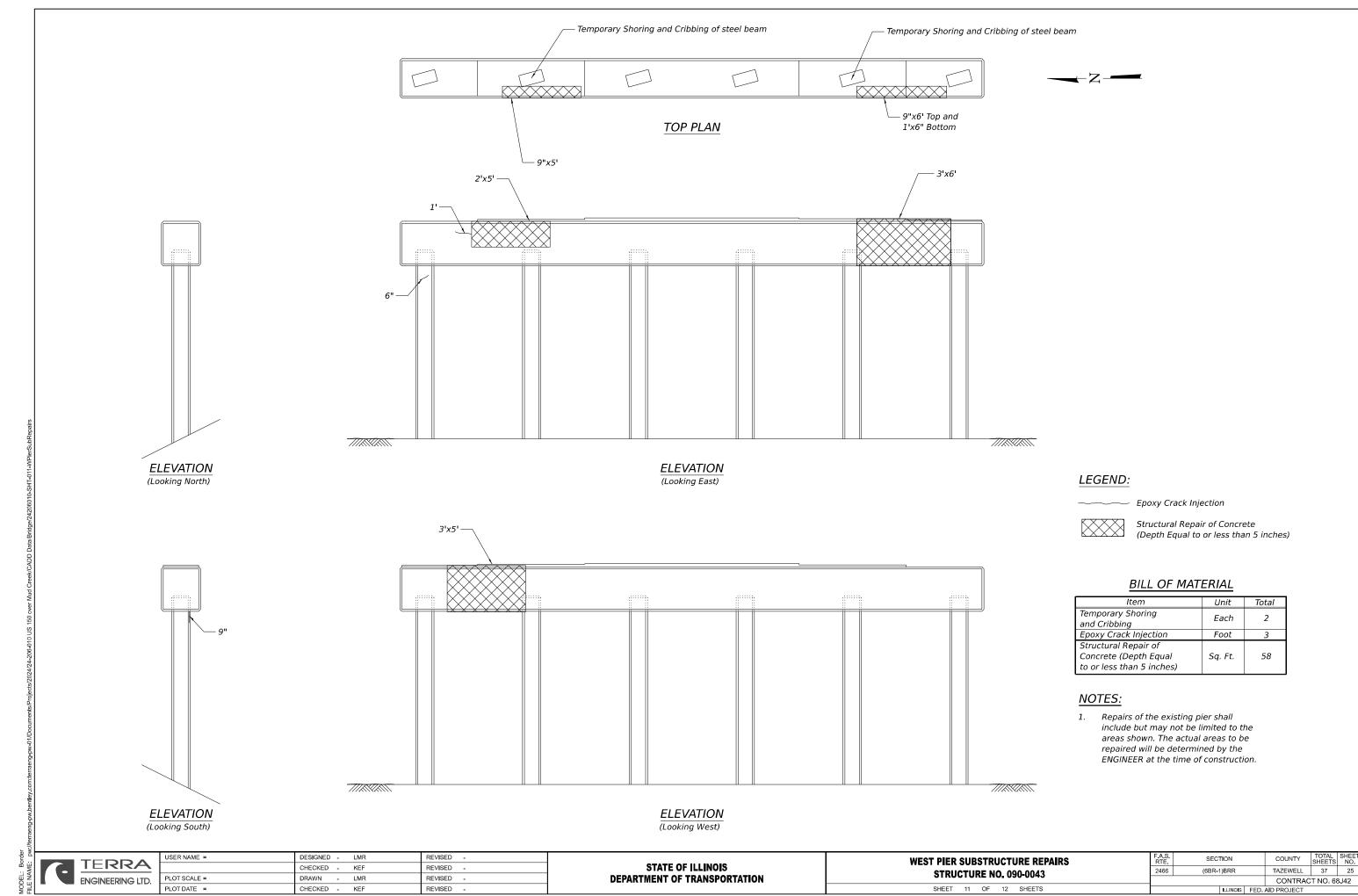
F.A.S. RTE.	SEC ⁻	ΓΙΟΝ		COUNTY	TOTAL SHEETS	SHEET NO.
2466	(6BR-1)BRR			TAZEWELL	37	22
				CONTRAC	T NO. 68	3J42
		ILLINOIS	FED	AID PROJECT		



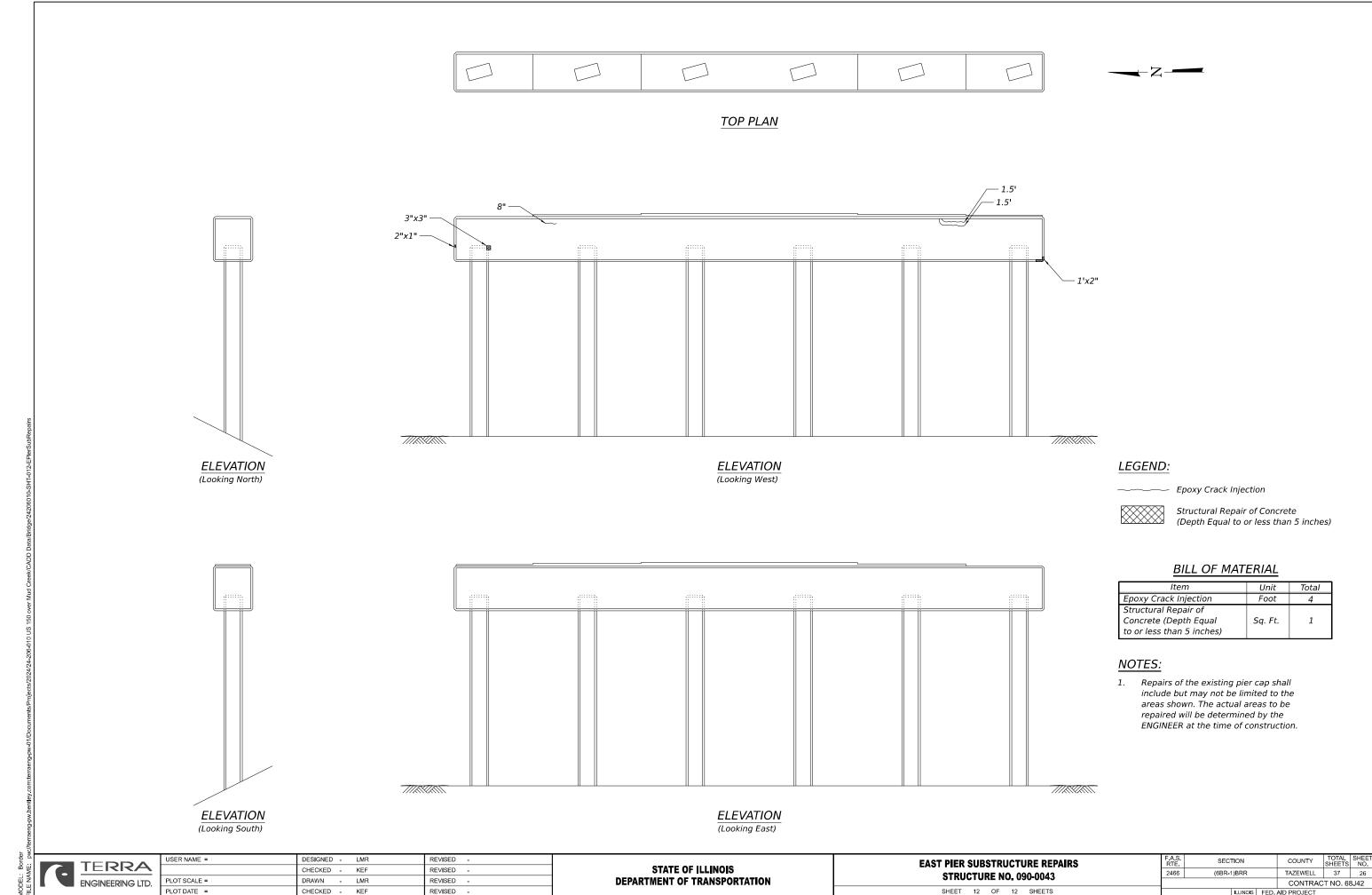
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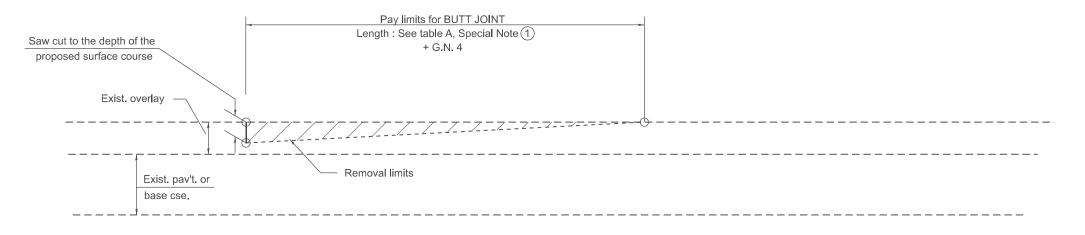
CASE 1: WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

TABLE A TAPER RATES

SPECIAL NOTE NUMBER	ELEMENT	MAINLINE INTERSTATES & 4-LANE EXPRESSWAYS	ALL OTHERS
1	BUTT JOINT TAPER RATE	1:480	1:240
2	TEMPORARY RAMP TAPER RATE	1:40	1:80

GENERAL NOTES

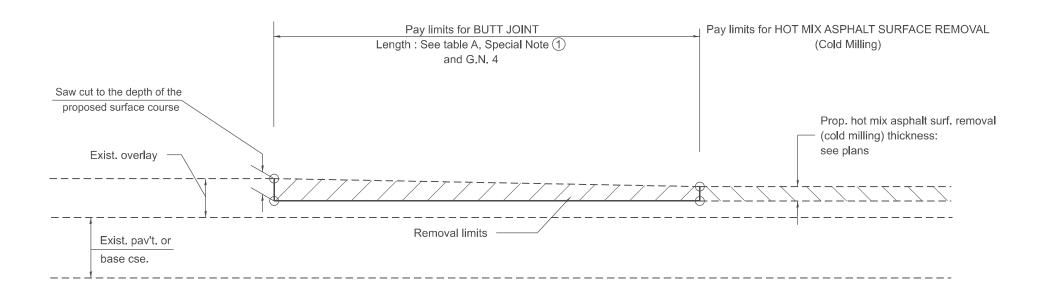
- 1. The work shall be done in accordance with Article 406.08 and the Special Provision for Butt Joints.
- The pavement surface to be removed may be either bituminous or P.C. concrete. The work shall be performed in accordance with Article 440.04 and the Special Provisions for Butt Joints.
- The saw cut joints shall be primed just prior to the placing of bituminous material. The work will be in accordance with the applicable portions of Article 406.05.
- The length of butt joint is based on the taper rate times change in cold milling depth within the butt joint pay limits, unless otherwise indicated.
- 5. Temporary ramps are paid for separately and not included in the cost of the butt joints.



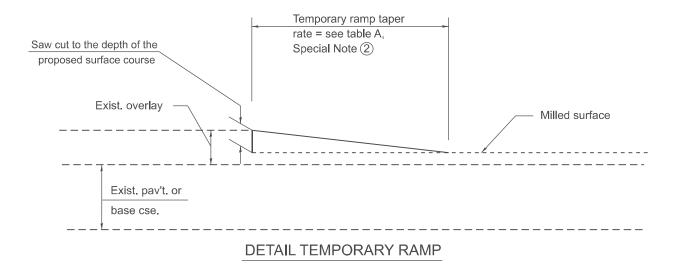
CASE 2: NO HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

All dimensions are in inches unless otherwise noted.

USER NAME = Eric.Thomas	DESIGNED -	REVISED -	STATE OF ILLINOIS	BUTT JOINTS			SECTION	COUNTY	TOTAL SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS	B011 3011	113	2466	(6BR-1)BRR	TAZEWELL	37 27
	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION			DISTRICT	4 STANDARD NO. 406101	CONTRACT	T NO. 68J42
PLOT DATE = 12/7/2022	DATE -	REVISED -		SCALE: NOT TO SCALE SHEET 1 OF 3 SHEETS	STA. TO STA.		ILLINOIS FED. AI	D PROJECT	



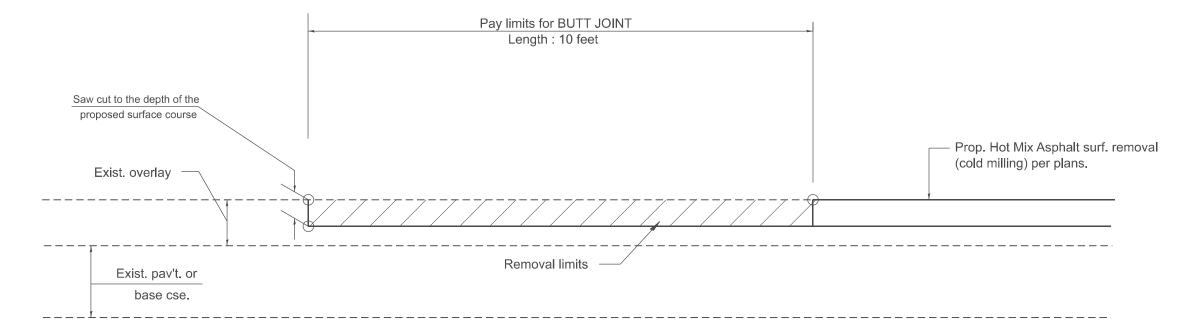
CASE 3: HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING) TIE-IN TO EXISTING BITUMINOUS TAPER



All dimensions are in inches unless otherwise noted.

USER NAME = Eric.Thomas	DESIGNED -	REVISED -		BUTT JOIN	TC STI	F.A. RTE	SECTION	COUNTY TOTAL	AL SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS	BOTT JOINTS			(6BR-1)BRR	TAZEWELL 37	7 28
	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION			DISTRICT 4	STANDARD NO. 406101		68J42
PLOT DATE = 12/7/2022	DATE -	REVISED -		SCALE: NOT TO SCALE SHEET 2 OF 3 SHEETS	STA. TO STA.		ILLINOIS FED. AI	D PROJECT	

E: C:\Bentley\CONNECT1011\Organization-Civi\NDOT_Standards\Ce



CASE 4 : SINGLE LIFT OVERLAY WITH EQUIVALENT DEPTH
HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)
TIE-IN TO EXISTING BITUMINOUS TAPER

All dimensions are in inches unless otherwise noted.

USER NAME = Eric.Thomas	DESIGNED -	REVISED -		BUIL JOINTS RTE. 2466 (6BR-1	SECTION	COUNTY SH	OTAL SHEET	
	DRAWN -	REVISED -	STATE OF ILLINOIS	BUTT JUINTS	2466	(6BR-1)BRR	TAZEWELL	37 29
	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		DISTRICT 4	· /	CONTRACT NO	√O. 68J42
PLOT DATE = 12/7/2022	DATE -	REVISED -		SCALE: NOT TO SCALE SHEET 3 OF 3 SHEETS STA. TO STA.		ILLINOIS FED. AI	D PROJECT	



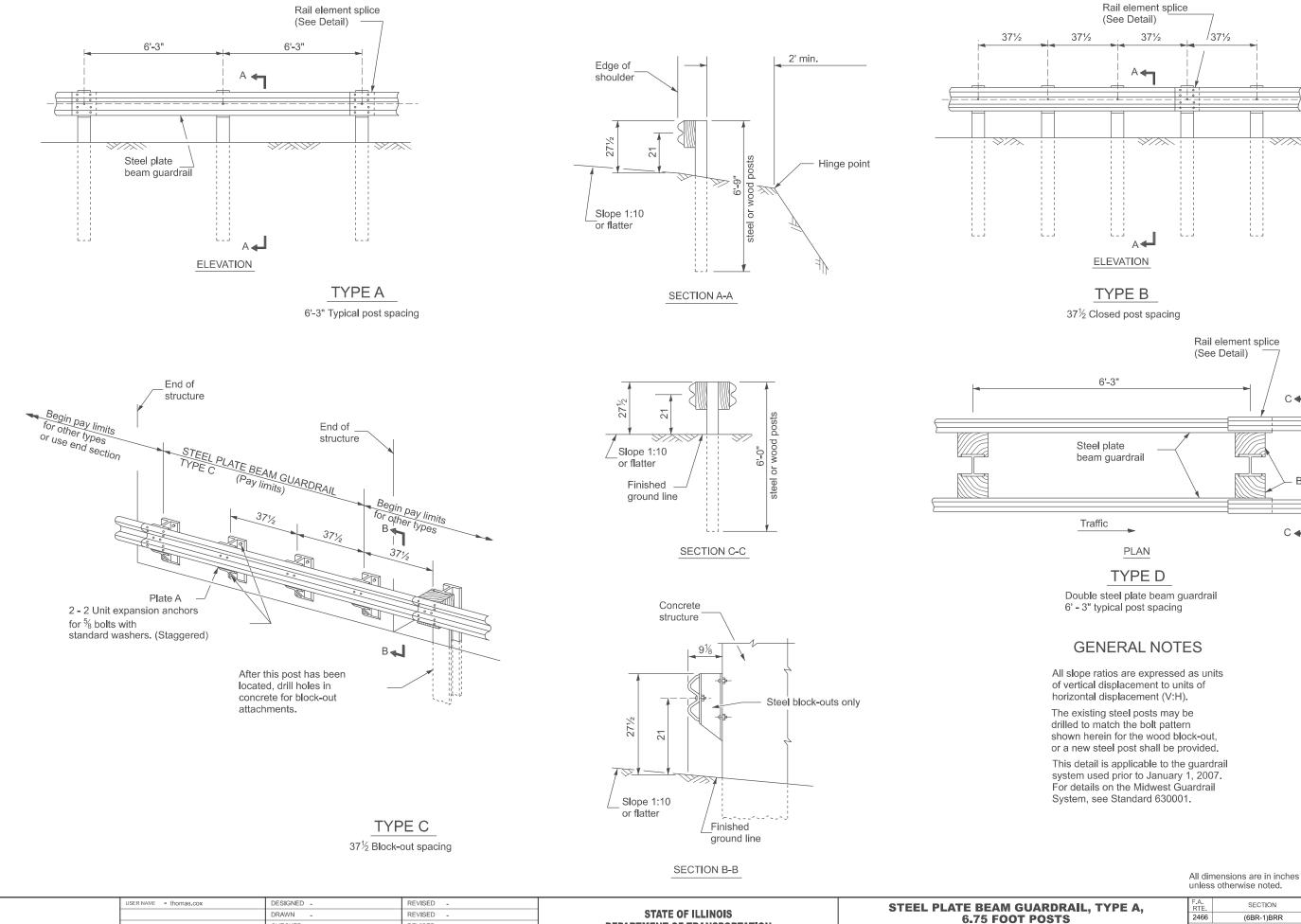
CHECKED

DATE

PLOT DATE = 11/11/2024

REVISED

REVISED



DEPARTMENT OF TRANSPORTATION

SCALE: NOT TO SCALE SHEET 0001 OF 4 SHEETS STA.

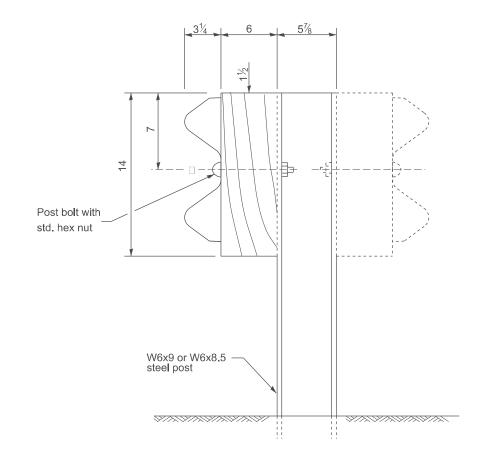
TO STA.

COUNTY SHEETS NO.

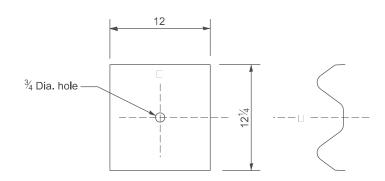
TAZEWELL 37 30 COUNTY (6BR-1)BRR DISTRICT 4 DETAIL NO. 630011 CONTRACT NO. 68J42

 \forall

Block-outs

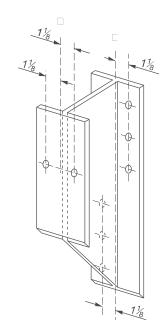


STEEL POST CONSTRUCTION

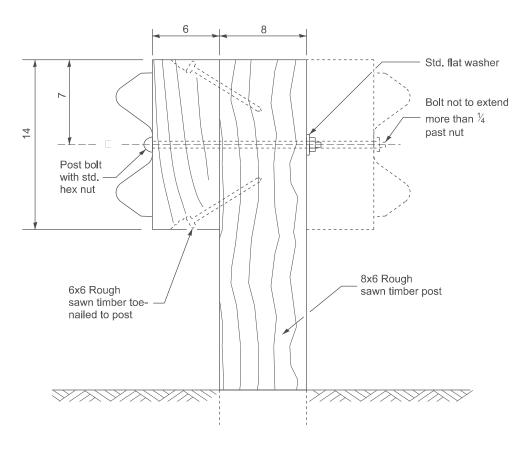


NOTE

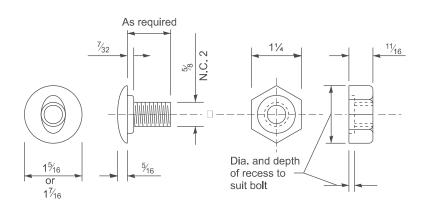
Plate A shall be placed between rail element and block-out at non-splice mounting points only when steel block-outs are used.



STEEL BLOCK-OUT DETAIL



WOOD POST CONSTRUCTION



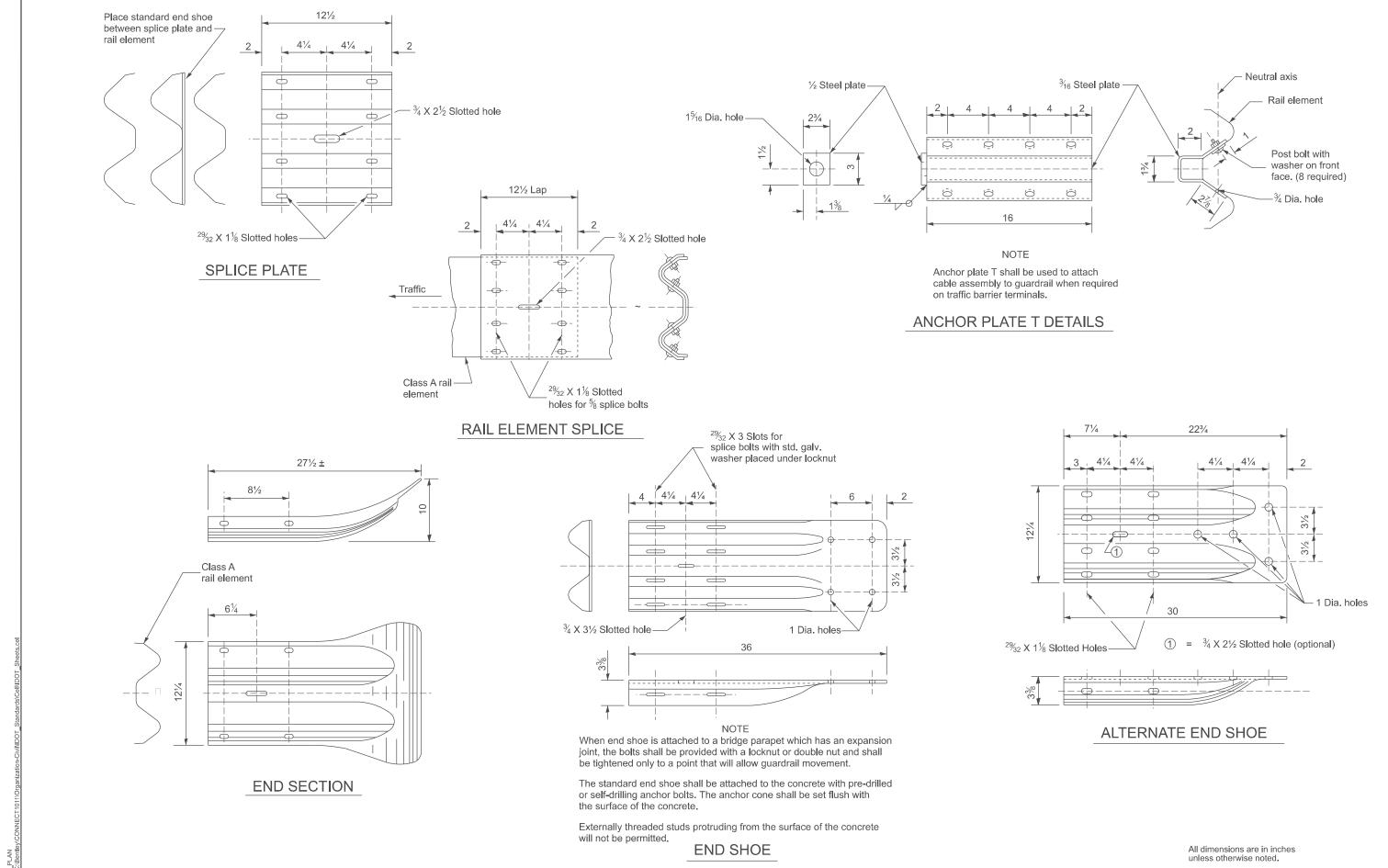
POST OR SPLICE BOLT & NUT

PLATE A

All dimensions are in inches unless otherwise noted.

USER NAME = thomas.cox	DESIGNED -	REVISED -		STEEL PLATE BEAM GUARDRAIL, TYPE A,		SECTION	COUNTY TOTAL SHE
	DRAWN -	REVISED -	STATE OF ILLINOIS	6.75 FOOT POSTS	2466	(6BR-1)BRR	TAZEWELL 37 31
	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		DISTRIC	T 4 DETAIL NO. 630011	CONTRACT NO. 68J42
PLOT DATE = 11/11/2024	DATE -	REVISED -	S	SCALE: NOT TO SCALE SHEET 0002 OF 4 SHEETS STA. TO STA.		ILLINOIS FED. A	ID PROJECT

FILE NAME: c:\pw_work\pwidot\illinois.gov_thomas.cox



STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

STEEL PLATE BEAM GUARDRAIL, TYPE A,

6.75 FOOT POSTS

SCALE: NOT TO SCALE SHEET 3 OF 4 SHEETS STA.

COUNTY

2466

TO STA.

(6BR-1)BRR

DISTRICT 4 DETAIL NO. 630011

TAZEWELL 37 32

CONTRACT NO. 68J42

JSER NAME = Eric.Thomas

PLOT DATE = 12/7/2022

DESIGNED -

DRAWN

DATE

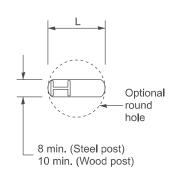
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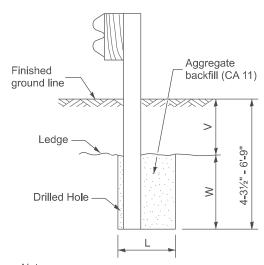
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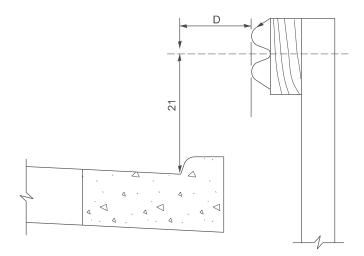
PLAN



Note:
Ledge line is top of rock
ledge or hard slag fill.

ELEVATION

FOOTING FOR POST WHEN IMPERVIOUS MATERIAL IS ENCOUNTERED



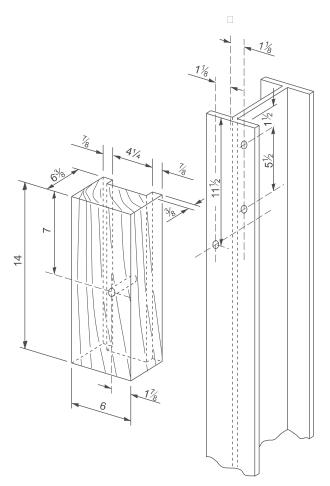
Note:

If it is necessary for D to be more than 12 and less than 10' - 0" type M-2 curb and gutter (Std. 606001) shall be used in front of and in advance of the guardrail.

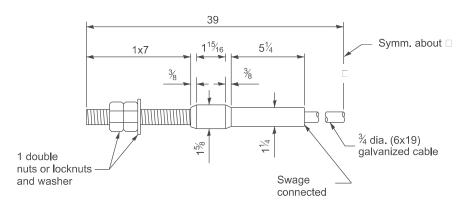
GUARDRAIL PLACED BEHIND CURB

(D = 0 desirable to 12 maximum)

V	W	L	_
V	VV	Steel Post	Wood Post
0 - 18	24	21	23
>18 - 41.5	12	8	10
>41.5 - 53.5	12 - 0	8	10



WOOD BLOCK-OUT AND STEEL POST DETAILS



CABLE ASSEMBLY

(40,000 lbs. min. breaking strength)
Tighten to taut tension.

All dimensions are in inches unless otherwise noted.

USER NAME = thomas.cox	DESIGNED -	REVISED -		STEEL PLATE BEAM GUARDRAIL. TYPE A.	F.A. RTE	SECTION	COUNTY	TOTAL SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS	6.75 FOOT POSTS	2466	(6BR-1)BRR	TAZEWELL	37 33
	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	0.73 1 001 1 0010	DISTRICT	T 4 DETAIL NO. 630011	CONTRACT	T NO. 68J42
PLOT DATE = 11/11/2024	DATE -	REVISED -		SCALE: NOT TO SCALE SHEET 0004 OF 4 SHEETS STA. TO STA.		ILLINOIS FED. AI	D PROJECT	

DRAIL INSTALLATIONS WHERE GRADES ARE EQUAL TO OR GREATER THAN 1% AND AT INLETS. (INCLUDE DISTRICT SPECIAL ROL" AT GUARDRAIL INSTALLATIONS WHERE GRADES ARE LESS THAN 1% (INCLUDE DISTRICT SPECIAL PROVISION). BLE. DIVIDING LINE IS IL 97. PCC or
HMA
Shoulder
ThicknessSee plans
Comb. CC&G, Type B
Pan Width - See Plans
Geotextile Fabric (stapled)
Guardrail Aggregate
Erosion Control

TYPICAL SECTION WITH COMBINATION CONCRETE CURB & GUTTER

TYPICAL SECTION WITHOUT EROSION CONTROL CURB

REVISED

REVISED

REVISED

REVISED

DESIGNED

DRAWN

DATE

HECKED

SER NAME = Eric.Thomas

PLOT DATE = 12/7/2022

Shoulder Shoulder Shoulder Shoulder Guardrill Aggregate Erssion Cortrol Guardrall Aggregate Erssion Control

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL EROSION CONTROL TREATMENTS

F.A. SECTION COUNTY TOTAL SHEET NO.
2466 (6BR-1)BRR TAZEWELL 37 34

DISTRICT 4 DETAIL NO. 630101 CONTRACT NO. 68J42

All dimensions are in inches

GENERAL NOTES: GUARDRAIL AGGREGATE EROSION CONTROL

2. Before placing the aggregate and the Geotextile Fabric, weeds and grass

3. After the area has been prepared, and in a dry condition, the Geotextile fabric shall be placed with a 12 minimum overlap. A knife cut for

or hand methods, in a manner reasonably true to line and grade.

A. The crushed aggregate shall be CA1 gradation in accordance with

B. The Geotextile Fabric shall be nonwoven fabric in accordance with

5. The Contractor shall have the option of placing the guardrail before or

after the Geotextile Fabric and Aggregate are in place. If the guardrail is placed after the Geotextile Fabric and Aggregate, then any voids must be

shall be removed from the area to be covered.

filled and the aggregate returned to line and grade.

6. Materials shall meet the following requirements:

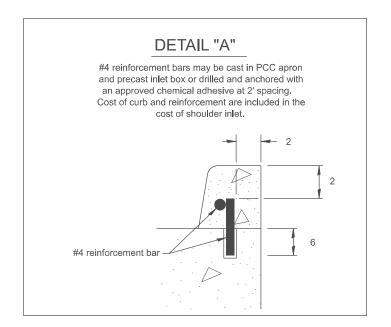
Article 1004.01(c) of the Standard Specifications.

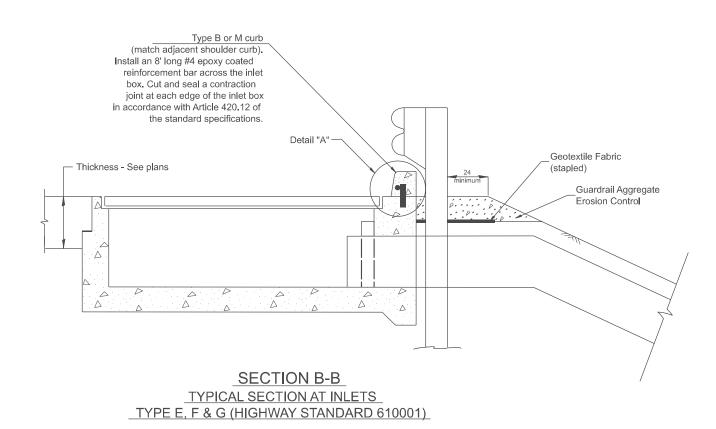
Article 1080.02 of the Standard Specifications.

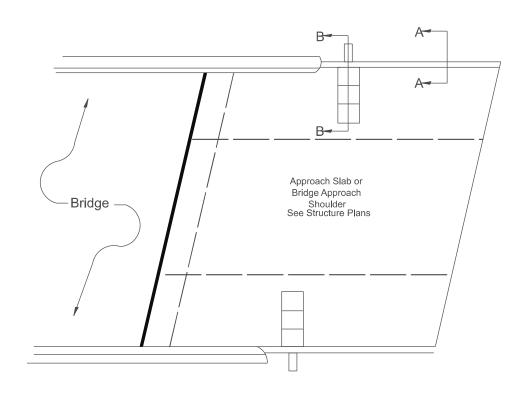
guardrail post installation is necessary.

This work shall consist of grading as needed, furnishing and installing geotextile
fabric and staples, and furnishing, placing and shaping crushed aggregate around
and behind Steel Plate Beam Guardrail posts in accordance with Plan Details.

4. The aggregate shall be deposited, compacted and shaped by either mechanical

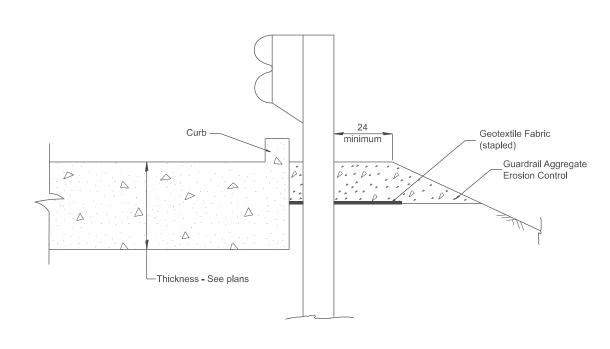






PLAN VIEW

APPROACH SLAB OR SHOULDER PLACEMENT



SECTION A-A

TYPICAL SECTION WITH BRIDGE APPROACH CURB

All dimensions are in inches unless otherwise noted.

USER NAME = Eric.Thomas	DESIGNED -	REVISED -		GUARDRAIL EROSION CONTROL TREATMENTS	F.A. RTE	SECTION	COUNTY TOTAL SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS	COARDIALE ERCOTOR CONTROL TREATMENTO	2466	(6BR-1)BRR	TAZEWELL 37 35
	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		DISTRIC	T 4 DETAIL NO. 630101	CONTRACT NO. 68J42
PLOT DATE = 12/7/2022	DATE -	REVISED -		SCALE:NOT TO SCALE SHEET 2 OF 2 SHEETS STA. TO STA.		ILLINOIS FED. A	ID PROJECT

FLUSH PAVED MEDIAN: TWO-WAY LEFT TURN LANE WITH ONE-WAY LEFT TURN LANE AT SIGNALIZED INTERSECTION

TYPICAL PAVEMENT MARKING LEGEND

(Note: This is a District Standard Legend. Some elements may not apply to specific project.)

- 1 4 Solid (Yellow)
- 2 4 Solid (White)
- 3 2-6 Crosswalk @ 6'-6" min C.-C. (White)
 2-8 Crosswalk @ 6'-6" min C.-C. (White) (When traffic signals are present.)
- 4 6 Skip-Dash (White)



(See Special Note 1)

- 5 8 Solid (White)
- 6 12 Diagonal (White) (Item 6) is shown on Std. 780001)
- 7 24 Stop Bar (White)



- 9 4 Skip-Dash (Yellow) 30' 10' (See Special Note 1)
- 10 12 Diagonal (Yellow) (See Table A)
 45°
 11 4 Double Solid (Yellow)

SPECIAL NOTES

- Skip Dash markings will be contend between both ends of city blocks and shall be placed in alignment transversely across the pavement.
- 2. The following shall apply to arrows located in one-way left turn lanes:
- A. A minimum of two (2) arrows is required.
- B. The maximum spacing between arrows is 80'.
- C. Arrows shall be evenly spaced if three (3) or more are required.
- 3. The following shall apply to arrow pairs located in two-way left turn lanes:
- A. A minimum of two (2) arrow pairs is required.
 B. The maximum spacing between arrow pairs is 200'.
- C. Arrow pairs shall be evenly spaced if three (3) or more are required.
- D. The spacing between Bi Directional Left Turn Arrows is 33'.

GENERAL NOTES

- 1. Refer to State Standard 780001 for additional Pavement Markings including letters & arrows.
- See Plans for Pavement Markings adjacent to curbed islands and medians, and through lane reductions.
- 3. Refer to Article 780.13 for letter, number and symbol areas (sq. ft.)
- Areas are grooved 1" beyond each edge for the following symbols: Through Arrow= 14.8 sq. ft.
 Large Left or Right Arrow= 21.9 sq. ft.
 Arrow Combination Left (or Right) and Through= 34.9 sq. ft.
 Wrong Way Arrow= 29.5 sq. ft.
 Railroad Crossing Symbol= 69.8 sq. ft.
 (For further information, refer to BDE Special Provision: Grooving for Recessed Pavement Markings)

 USER NAME
 = thomas.cox
 DESIGNED
 REVISED

 DRAWN
 REVISED

 CHECKED
 REVISED

 PLOT DATE
 = 11/11/2024
 DATE
 REVISED

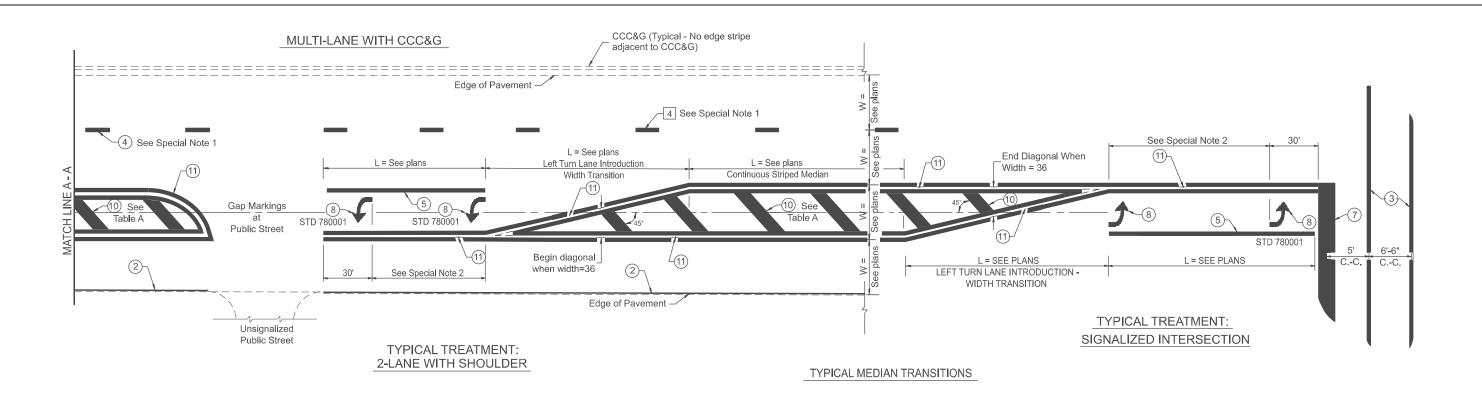
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

 TYPICAL PAVEMENT MARKINGS
 F.A. SECTION COUNTY SHEETS NO.
 COUNTY SHEETS NO.

 2466
 (6BR-1)BRR
 TAZEWELL 37
 36

 DISTRICT 4 DETAIL NO. 780001
 CONTRACT NO.
 68J42

SCALE:NOT TO SCALE SHEET 000 OF 2 SHEETS STA. TO STA.

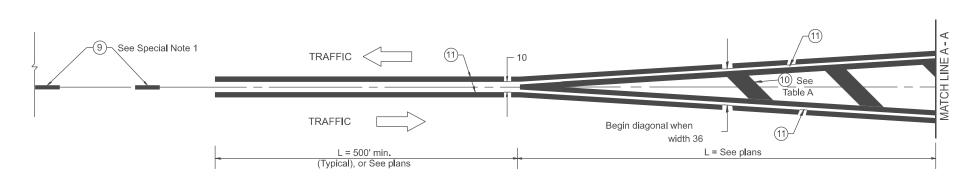


FLUSH PAVED MEDIAN: RESTRICTED LEFT TURN LANE

TABLE A

RECOMMENDED SPACING BETWEEN DIAGONAL LINES

SPEED LIMIT RANGECONTINUOUSINTERSECTION CHANNELIZATION (Includes Width Transitions for Median and Left Turn Lane Introductions)Less Than 30 mph50'15'30 - 45 mph75'20'Over 45 mph150'30'



MEDIAN INTRODUCTION - WIDTH TRANSITIONS

All dimensions are in inches unless otherwise noted.

USER NAME = Eric.Thomas	DESIGNED -	REVISED -		TYPICAL PAVEMENT MARKINGS	F.A. RTF	SECTION	COUNTY TOTAL	. SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION SCA	TITIOALTAVEMENT MARRINGO		(6BR-1)BRR	TAZEWELL 37	37
	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		DIS	STRICT 4 DETAIL NO. 780001	CONTRACT NO.	68J42
PLOT DATE = 12/7/2022	DATE -	REVISED -		SCALE:NOT TO SCALE SHEET 2 OF 2 SHEETS STA. TO STA.		ILLINOIS FED. AID	D PROJECT	