

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	VARIOUS	20	1
		ILLINOIS	CONTRACT NO. 66P31	

* DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 25

INDEX OF SHEETS

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2. GENERAL NOTES
- 3 - 6. SUMMARY OF QUANTITIES
7. HTC LOCATIONS
8. HTC CABLE TENSION CHARTS AND LOGS
9. TERMINAL MARKER PLACEMENT AND REFLECTOR DETAIL
10. TIMBER CURB & BITUMINOUS CURB REPAIR & GUARD POST DETAIL & IMPACT ATTENUATOR PLAN
- 11-13. TUBULAR THRIE BEAM RETROFIT RAIL FOR BRIDGES
14. TRAFFIC BARRIER TERMINAL TYPE 8
15. TRAFFIC BARRIER TERMINAL TYPE 9
16. TRAFFIC BARRIER TERMINAL TYPE 12
- 17-20. PRE-MGS STEEL PLATE BEAM GUARDRAIL STANDARD 630001-06 EFFECTIVE APRIL 1, 2006

**PROPOSED
HIGHWAY PLANS**

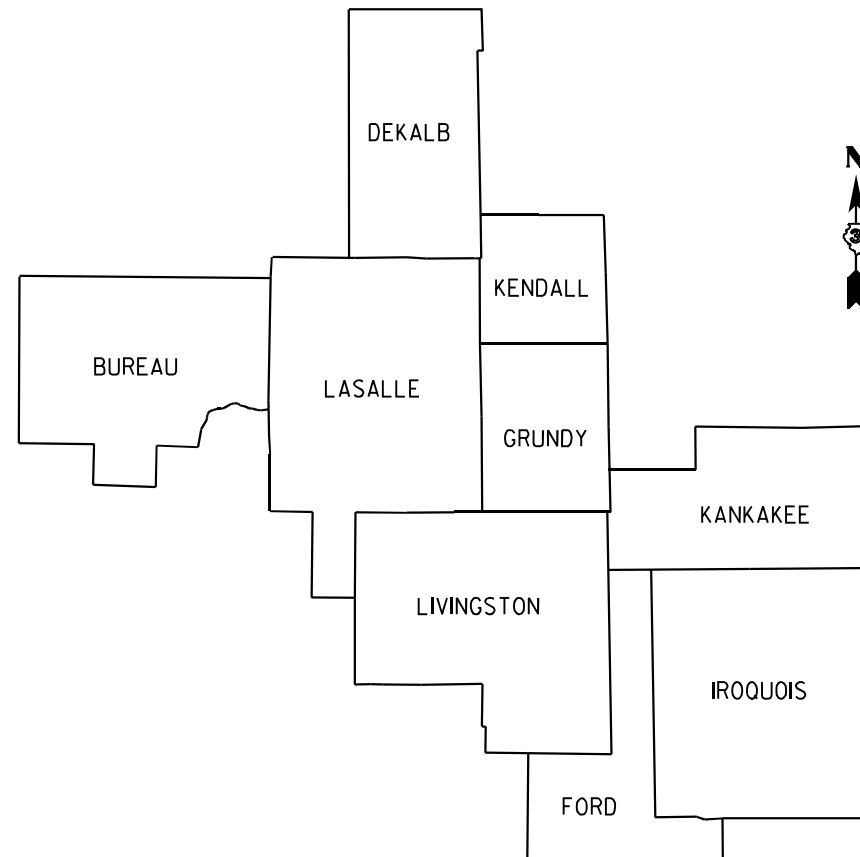
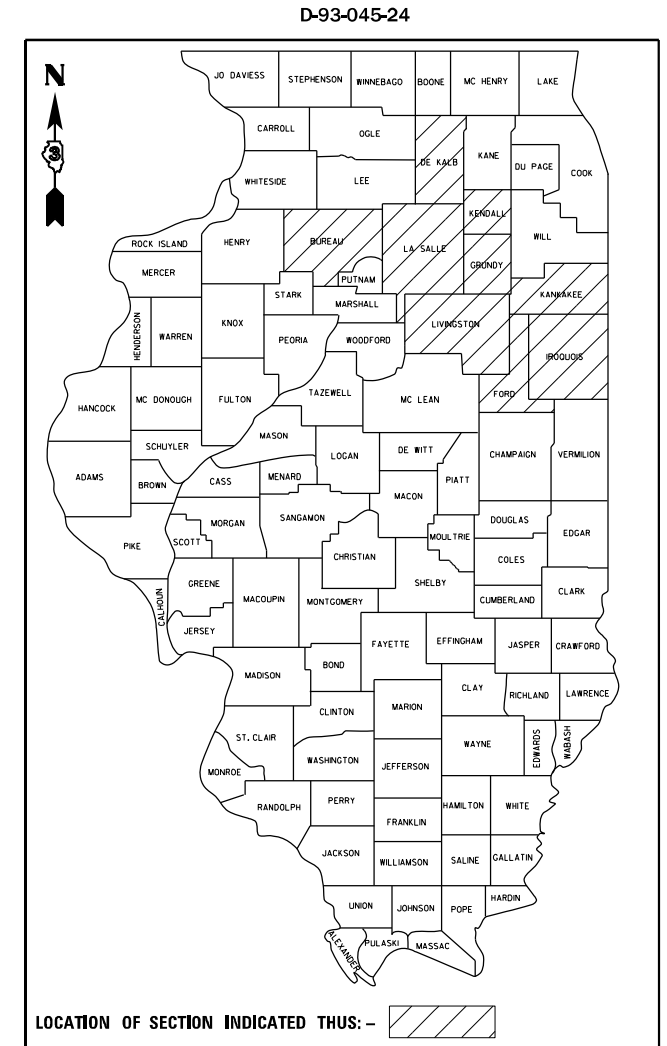
**VARIOUS ROUTES
D3 HWY DAMAGE REPAIR FY 25
PROJECT
VARIOUS COUNTIES**

C-93-082-24

REPAIRING MOTORIST CAUSED DAMAGE TO HIGHWAY FACILITIES

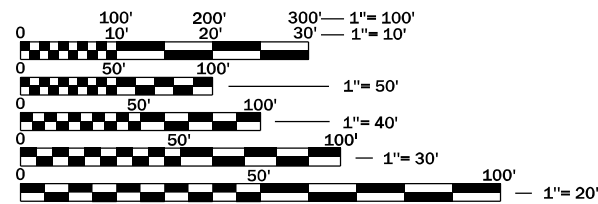
HIGHWAY STANDARDS

SEE PAGE 2 FOR LIST OF HIGHWAY STANDARDS



DISTRICT 3

LOCATION MAP
NOT TO SCALE



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

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

PROJECT ENGINEER: JOSEPH KANNEL, P.E.
UNIT CHIEF: DARCY MITCHELL
DISTRICT 3 NO. (815) 434-6131
CONTRACT NO. 66P31

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 12, 2024
Trisha Thompson REGIONAL ENGINEER

May 10, 2024 *Scott A. Elk*
ENGINEER OF DESIGN AND ENVIRONMENT

May 10, 2024 *Stephen M. Smith*
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
630001-13	STEEL PLATE BEAM GUARDRAIL
630006-01	NON-BLOCKED STEEL PLATE BEAM GUARDRAIL
630101-11	STRONG POST GUARDRAIL ATTACHED TO CULVERT
630106-02	LONG-SPAN GUARDRAIL OVER CULVERT
630111-01	WEAK POST GUARDRAIL ATTACHED TO CULVERT
630116	BACK SIDE PROTECTION OF GUARDRAIL
630201-07	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631006-08	TRAFFIC BARRIER TERMINAL, TYPE 1B
631011-10	TRAFFIC BARRIER TERMINAL, TYPE 2
631026-06	TRAFFIC BARRIER TERMINAL, TYPE 5
631031-18	TRAFFIC BARRIER TERMINAL, TYPE 6
631032-10	TRAFFIC BARRIER TERMINAL, TYPE 6A
631033-09	TRAFFIC BARRIER TERMINAL, TYPE 6B
631046-04	TRAFFIC BARRIER TERMINAL, TYPE 10
631051-03	TRAFFIC BARRIER TERMINAL, TYPE 11
631061-01	TRAFFIC BARRIER TERMINAL, TYPE 13
631066	TRAFFIC BARRIER TERMINAL, TYPE 14
636001-02	CABLE ROAD GUARD SINGLE STRAND
643001-02	SAND MODULE IMPACT ATTENUATORS
664001-02	CHAIN LINK FENCE
665001-02	WOVEN WIRE FENCE
701001-02	OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-ROAD OPERATIONS 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS 2L, 2W, DAY ONLY
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701400-12	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-13	LANE CLOSURE, FREEWAY/EXPRESSWAY
701406-13	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP FOR SPEEDS ≥ 45 MPH
701416-11	LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH CROSSOVER AND BARRIER
701421-08	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS ≥ 45 MPH TO 55 MPH
701422-10	LANE CLOSURE, MULTILANE, FOR SPEEDS ≥ 45 MPH TO 55 MPH
701426-09	LANE CLOSURE, MULTILANE INTERMITTENT OR MOVING OPERATION, FOR SPEEDS ≥ 45 MPH
701427-05	LANE CLOSURE, MULTILANE INTERMITTENT OR MOVING OPERATION, FOR SPEEDS ≤ 40 MPH
701428-01	TRAFFIC CONTROL, SETUP AND REMOVAL, FREEWAY/EXPRESSWAY
701446-11	TWO LANE CLOSURE, FREEWAY/EXPRESSWAY
701451-05	RAMP CLOSURE FREEWAY/EXPRESSWAY
701456-05	PARTIAL EXIT RAMP CLOSURE FREEWAY/EXPRESSWAY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701502-09	URBAN LANE CLOSURE 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701602-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701606-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-09	TRAFFIC CONTROL DEVICES
725001-01	OBJECT AND TERMINAL MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

GENERAL NOTES

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

THE CONTRACTOR IS ADVISED THAT THERE MAY BE PRESENCE OF DEPARTMENT-OWNED UNDERGROUND ELECTRICAL CABLE WITHIN THE LIMITS OF THE PROPOSED IMPROVEMENT. THE CONTRACTOR SHALL REQUEST THE ILLINOIS DEPARTMENT OF TRANSPORTATION IN OTTAWA (815-434-8417) TO LOCATE THE UNDERGROUND FACILITIES, PROVIDING A MINIMUM OF 72 HOURS NOTICE. THE DEPARTMENT IS NOT A MEMBER OF THE JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS (JULIE) SYSTEM.

ALL DAMAGE TO DEPARTMENT OWNED UNDERGROUND FACILITIES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE DEPARTMENT AT THE CONTRACTOR'S EXPENSE. THIS SHALL INCLUDE ALL TEMPORARY REPAIRS REQUIRED TO KEEP THE FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE PERMANENT REPAIRS. SPLICING OF ELECTRIC CABLE WILL NOT BE ALLOWED. ELECTRIC CABLE SHALL BE REPLACED FROM POLE TO POLE OR CONTROLLER.

THE REMOVAL OF DAMAGED GUARDRAIL, DAMAGED HIGH-TENSIONCABLE, AND DAMAGED POSTS SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE VARIOUS REPLACEMENT PAY ITEMS.

THE TRAFFIC CONTROL REQUIRED FOR THE REPAIRS OR INSTALLATION OF GUARDRAIL, HIGH-TENSION CABLE, OR FENCE SHALL BE INCLUDED IN THE CALLOUT TRAFFIC CONTROL PAY ITEMS AS DESCRIBED IN THE SPECIAL PROVISIONS, AND SHALL BE IN ACCORDANCE WITH THE TRAFFIC CONTROL STANDARDS INCLUDED HEREIN.

ALL HARDWARE (NUTS, BOLTS, WASHERS, STAPLES, WIRES, TIES, ETC.) REQUIRED FOR THE REPAIRS TO OR INSTALLATION OF GUARDRAIL, HIGH-TENSION CABLE, AND FENCE SHALL BE CONSIDERED INCLUDED IN THE VARIOUS PAY ITEMS OF WORK IN THIS CONTRACT.

CONTRACTOR SHALL PROVIDE A FIELD OFFICE IN LASALLE OR BUREAU COUNTY.

COMMITMENTS:

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE
AS BUILT INFORMATION

SUPERVISING CONSTRUCTION FIELD ENGINEER

RESIDENT ENGINEER / TECHNICIAN

START & END DATES
OF CONSTRUCTION: _____

INSPECTORS: _____

* DISTRICT 3 HIGHWAY DAMAGE REPAIR FY25

FILE NAME =	USER NAME = tlmthy_zletsch	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -			VAR.	*		20	2	
	PLOT DATE = 2/27/2024	DATE -	REVISED -			CONTRACT NO. 66P31					
						SCALE:	SHEET	OF	SHEETS	STA.	TO

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				MCHD 100% MCHD ROADWAY	CONT MAIN 100% STATE ROADWAY	HTC BARRIER 100% STATE ROADWAY
				0021	0021	0021
				RURAL 07M0	RURAL 07E0	RURAL 07A0
63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	3	2	1	
63100070	TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	1	1		
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	2	2	
63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	1	1		
63100089	TRAFFIC BARRIER TERMINAL, TYPE 6B	EACH	1	1		
63100101	TRAFFIC BARRIER TERMINAL, TYPE 9	EACH	1	1		
63100105	TRAFFIC BARRIER TERMINAL, TYPE 10	EACH	1	1		
63100115	TRAFFIC BARRIER TERMINAL, TYPE 12	EACH	1	1		
63100119	TRAFFIC BARRIER TERMINAL, TYPE 14	EACH	1	1		
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	35	15	20	
63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	15	5	10	
63301210	REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	50		50	
63301215	REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE B	FOOT	50		50	
64300260	IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	1	1	

* DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 25

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PLOT DATE = 2/27/2024	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS	FED. AID PROJECT
										CONTRACT NO. 66P31		

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				0021	0021	0021
				RURAL 07M0	RURAL 07E0	RURAL 07A0
66400105	CHAIN LINK FENCE, 4'	FOOT	350	50	300	
66400305	CHAIN LINK FENCE, 6'	FOOT	25	25	0	
66500105	WOVEN WIRE FENCE, 4'	FOOT	1250	1000	250	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12			12
67100100	MOBILIZATION	L SUM	1	0.5	0.5	
78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	20	10	10	
X0322878	TIMBER CURB	FOOT	10	10		
X0326126	WOOD TERMINAL POST	EACH	10	5	5	
X6300215	RAIL ELEMENT PLATES	EACH	550	200	350	
X6300230	STEEL POSTS	EACH	200	50	150	
X6310301	REPAIR TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL)	EACH	25	5	20	
X6331101	TUBULAR THRIE BEAM	FOOT	25	25		
X6331105	STEEL POSTS, MODIFIED	EACH	2	2		
X6331110	STEEL POSTS (SPECIAL)	EACH	53	3	50	

* DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 25

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SCALE:				SHEET OF SHEETS	STA. TO STA.						

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
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				0021	0021	0021
				RURAL 07M0	RURAL 07E0	RURAL 07A0
X6350204	LINEAR DELINEATOR PANELS, 4 INCH	EACH	70	50	20	
X6432110	REPLACE IMPACT ATTENUATORS (NON-REDIRECTIVE), TEST LEVEL 3	EACH	190	40	150	
X6432200	REPAIR IMPACT ATTENUATORS (FULLY REDIRECTIVE)	EACH	3	1	2	
X6440106	REPLACE HIGH TENSION CABLE END SECTION	EACH	17	2		15
X6440108	REPAIR HIGH TENSION CABLE	FOOT	800	300		500
X6440118	REPAIR HIGH TENSION BARRIER TERMINAL	EACH	53	3		50
X6440122	REMOVE AND REPLACE HIGH TENSION CABLE POST	EACH	950	150		800
X6440124	REMOVE AND REPLACE HTC POST (HEAVY DUTY)	EACH	1000	200		800
X6610200	HOT-MIX ASPHALT CURB REPAIR	FOOT	25	25		
X6640502	CHAIN LINK FENCE POST	EACH	35	10	25	
X7011834	TRAFFIC CONTROL AND PROTECTION, CALL OUT WORK	EACH	30	10	20	
X7011836	TRAFFIC CONTROL AND PROTECTION, FREEWAY/EXPRESSWAY, CALL OUT WORK	EACH	10	4	5	1
Z0012752	CONCRETE STRUCTURE REPAIR	CU FT	2	2		
Z0020210	PULL POST ARRANGEMENT	EACH	10	5	5	

* DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 25

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SCALE:				SHEET OF SHEETS	STA. TO STA.					

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				0021	0021	0021
				RURAL 07M0	RURAL 07E0	RURAL 07A0
Z0029657	HIGH TENSION CABLE SYSTEM MAINTENANCE	EACH	599	99		500
Z0029665	REPAIR TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL - RAIL ELEMENT PLATE	FOOT	5	0	5	
Z0052600	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1	1		
Z0053200	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	1	1		
Z0053210	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	1	1		
Z0053220	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 6B	EACH	1	1		
Z0053400	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 8	EACH	1	1		
Z0053500	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 9	EACH	1	1		
Z0053575	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 12	EACH	1	1		

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* DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 25

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											ILLINOIS FED. AID PROJECT	

HIGH TENSION CABLE BARRIER REPAIR SYSTEM SCHEDULE

LOCATION	COUNTY	SYSTEM	SYSTEM TYPE	CONTACT INFORMATION	
I-39, MP 63.9-69.9	LASALLE	GIBALTAR	DRIVEN	BEN DVORAK (815)288-2343	
IL 47, I-80 TO CATON FARM RD	GRUNDY/KENDALL	TRINITY	DRIVEN (HD)	SCOTT MYERS (817)437-9023	RICHARD FIGLEWICZ (847)638-4611
I-55, MP 227-233	GRUNDY	GIBALTAR	DRIVEN	BEN DVORAK (815)288-2343	
I-55, MP 216-227	GRUNDY & LIVINGSTON	GIBALTAR	DRIVEN	BEN DVORAK (815)288-2343	
I-55, MP 207-210.5	GRUNDY	GIBALTAR	DRIVEN	BEN DVORAK (815)288-2343	
I-55, JUST INSIDE WILL CO		GIBALTAR	DRIVEN	BEN DVORAK (815)288-2343	
I-57, MP 322-324	KANKAKEE	GIBALTAR	DRIVEN	BEN DVORAK (815)288-2343	
I-57, MP 312-314.8	KANKAKEE	GIBALTAR	DRIVEN	BEN DVORAK (815)288-2343	
I-57, MP 310.1-312	KANKAKEE	GIBALTAR	DRIVEN	BEN DVORAK (815)288-2343	
I-57, MP 306.1-310.1	KANKAKEE	TRINITY	DRIVEN (HD)	SCOTT MYERS (817)437-9023	RICHARD FIGLEWICZ (847)638-4611
I-57, MP 302.5-306.1	KANKAKEE	GIBALTAR	DRIVEN	BEN DVORAK (815)288-2343	
I-57, MP 293-302.5	IROQUOIS/KANKAKEE	GIBALTAR	DRIVEN	BEN DVORAK (815)288-2343	
I-57, MP 290.5-293	IROQUOIS	TRINITY	DRIVEN (IID)	SCOTT MYERS (817)437-9023	RICHARD FIGLEWICZ (847)638-4611
I-57, MP 285-290.5	IROQUOIS	TRINITY	DRIVEN (HD)	SCOTT MYERS (817)437-9023	RICHARD FIGLEWICZ (847)638-4611
I-57, MP 277-279	IROQUOIS	NUCOR	DRIVEN		JEREMY KNERNDCHIELD (913)744-8054
I-80, MP 97-105	LASALLE & GRUNDY	TRINITY	DRIVEN (HD)	SCOTT MYERS (817)437-9023	RICHARD FIGLEWICZ (847)638-4611
I-80, MP 92.5-97.1	LASALLE	TRINITY	DRIVEN (HD)	SCOTT MYERS (817)437-9023	RICHARD FIGLEWICZ (847)638-4611
I-80, MP 80.5-92.5	LASALLE	TRINITY	DRIVEN (HD)	SCOTT MYERS (817)437-9023	RICHARD FIGLEWICZ (847)638-4611
I-80, MP 74.3-80.2	LASALLE	GIBALTAR	DRIVEN	BEN DVORAK (815)288-2343	
I-80, MP 64-70.1	BUREAU	GIBALTAR	DRIVEN	BEN DVORAK (815)288-2343	
I-80, MP 41.5-48.1	BUREAU	GIBALTAR	DRIVEN	BEN DVORAK (815)288-2343	
I-80, MP 34.9-41.5	BUREAU	GIBALTAR	DRIVEN	BEN DVORAK (815)288-2343	

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			SCALE: SHEET OF SHEETS STA. TO STA.		



Illinois Department of Transportation

TENSION LOG SHEET
FOR
High Tension Cable Barrier

System	
	Brifen
	USHTCS (Nucor)
	Gibraltar
	Trinity (CASS)

Date / Time: _____

Contract / Work Order No. _____

County: _____

Route: _____

Milepost/ GPS: _____

Ambient Temp: _____

Rope Temp: _____

3 or 4 Cable System	Location 1 Actual Load kN/LB	Location 2 Actual Load kN/LB	Location 3 Actual Load kN/LB	Average Load (L1+L2+L3/3) kN/LB	Design Load kN/LB (see charts)
Top Cable					
Cable 2					
Cable 3 (If Applicable)					
Bottom Cable					

Note: Readings should be taken at 3 separate places along each cable, moving the tension meter at least 4" between readings. The average load is compared to design load for tolerance.

Number of splices made to the cable: _____

Were tensioning adjustments made to the cable: _____

Is 1" (minimum) of thread exposed in all turnbuckle windows: _____

Splice Type & Location (s): _____

Testing Equipment Used: _____

Printed Name & Signature of Tester: _____

Other Notes: _____

_____ IDOT Inspector Initials (if Present):

TENSION CHECK REQUIREMENTS

CHECKING AND CORRECTING THE TENSION IN EACH CABLE SHALL BE PERFORMED EACH TIME A CABLE IS SPLICED. THE RECOMMENDED TENSIONS FOR EACH SYSTEM SHALL BE ACCORDING TO MANUFACTURER SPECIFICATIONS. THE RESULT OF EACH CHECK SHALL BE RECORDED ON A COPY OF THE TENSION LOG SHEET SHOWN ON THIS SHEET. THE COMPLETED LOG SHALL BE SUBMITTED A LONG WITH WORK ORDER BILLINGS.

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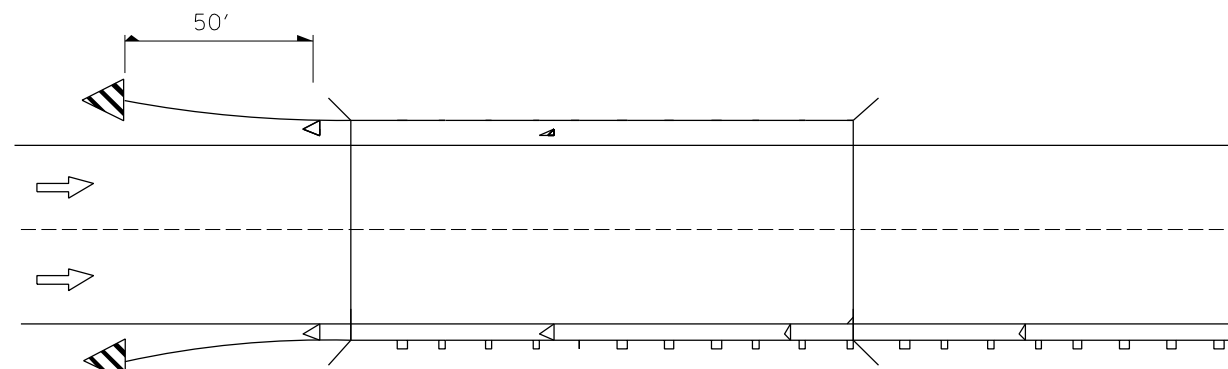
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Default	PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HTC CABLE TENSION CABLE SHEET

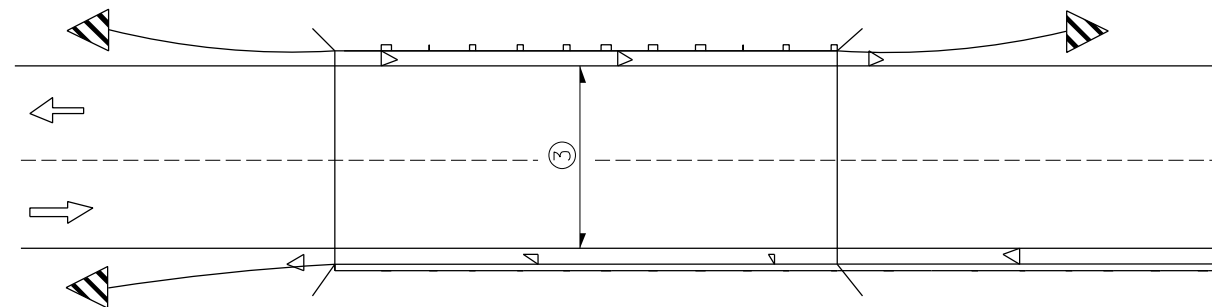
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VAR.	*	VARIOUS	20	8
			CONTRACT NO. 66P31	
		ILLINOIS FED. AID PROJECT		



Reflectors are not to be placed on TerminalEnd Sections.
 (min. 3 reflectors regardless of length).
 After 400 ft transition, match existing delineator spacing.

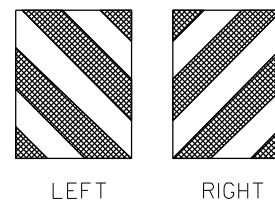
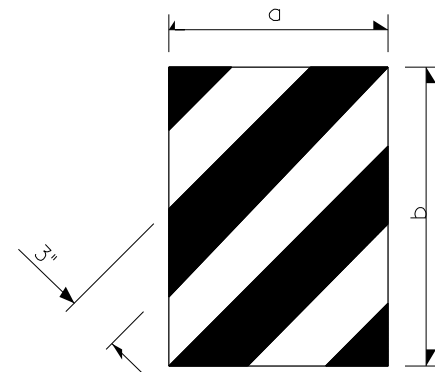
ONE-WAY TRAFFIC



③ Bidirectional silver/silver should be used in lieu of monodirectional silver on both sides of two-lane bridges where the pavement is less than 24' wider than the pavement approaching the bridge.

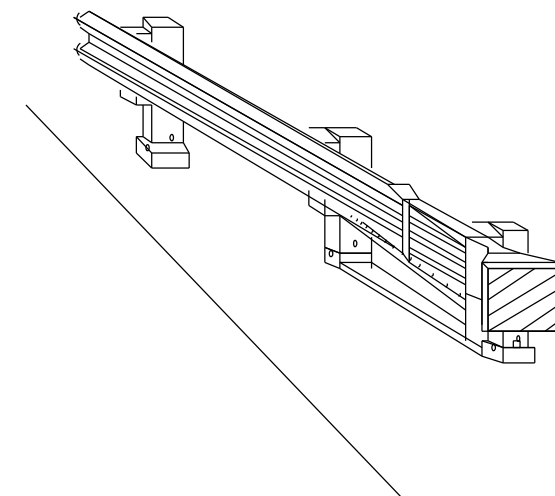
- ◁ Monodirectional silver
- ◄ Monodirectional amber
- ▴ Terminal Marker - Black/Yellow
Left or Right as appropriate

TWO-WAY TRAFFIC



DIMENSION	CASE I	CASE II
a	*	450 (18)
b	*	406 (16)

* The width and height (a, b) of the terminal marker shall be within approximately 25 mm (1 inch) of the outer edge of the terminal end, with a minimum reflective area of 0.18 m² (288 sq. in.)



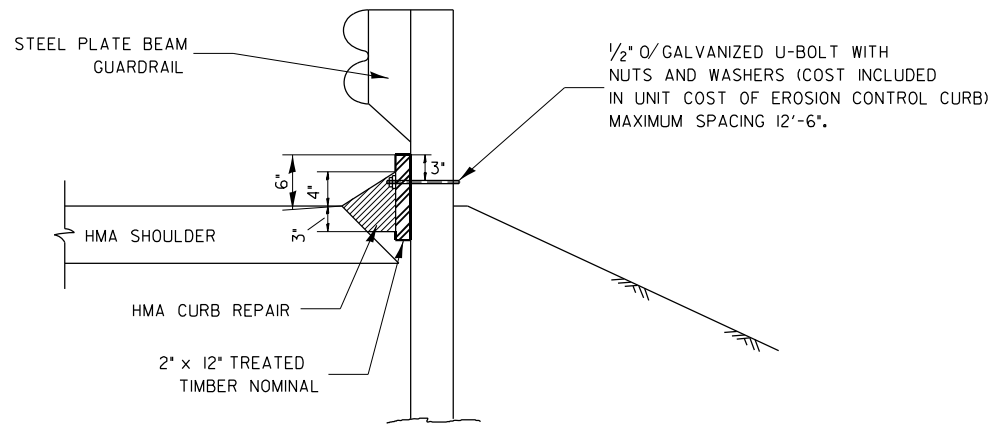
TERMINAL MARKER DETAILS

Color: Black / Yellow reflectorized

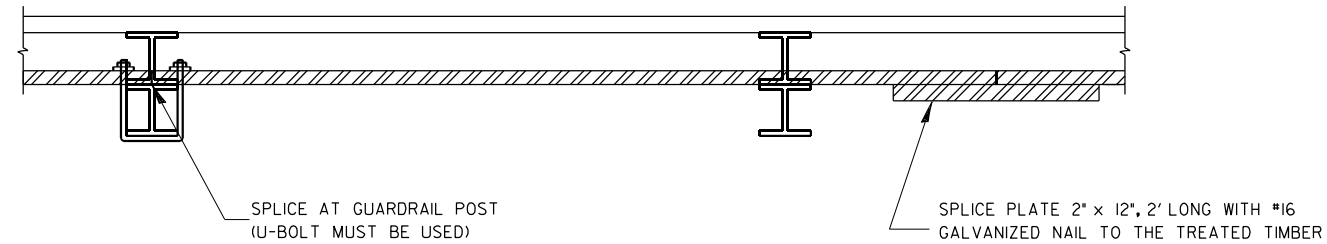
**REFLECTOR AND
TERMINAL MARKER PLACEMENT**

* DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 25

FILE NAME =	USER NAME = tlmthy.zletsch	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TERMINAL MARKER PLACEMENT			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw2/illdot-pw.bentley.com/PWIDOT/Documents/IDOT Offices/District 3/ORD Projects/D366P31/CADDData/66P31-shd-details.dwg	DRAWN -	REVISED -	REVISED -					VAR.	*		20	9
Default	PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.			CONTRACT NO. 66P31				
	PLOT DATE = 2/27/2024	DATE -	REVISED -					ILLINOIS	FED. AID PROJECT			



SIDE VIEW



TOP VIEW

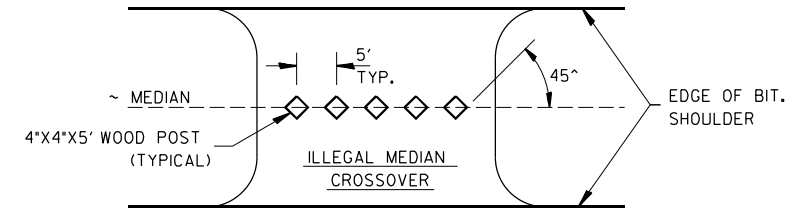
NOTE:
THE TREATED TIMBER SHALL BUTT TOGETHER AT THE GUARDRAIL POST OR SPLICED AS SHOWN ON THE DETAIL.

THE TREATED TIMBER SHALL BE TREATED IN ACCORDANCE TO ARTICLE 1007.12 AND ALL PRESERVATIVES SPECIFIED IN THE ARTICLE WILL BE ALLOWED.

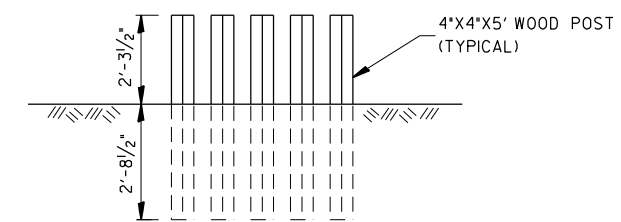
THE PRICE FOR EROSION CONTROL CURB SHALL INCLUDE THE U-BOLTS ATTACHING THE TREATED TIMBER TO THE GUARDRAIL POSTS, TREATED TIMBER, AND THE NECESSARY GRADING TO COMPLETE THIS WORK.

HMA CURB REPAIR SHALL BE MEASURED AND PAID FOR AT CONTRACT UNIT PRICE PER TON.

HMA CURB REPAIR SHALL BE IN ACCORDANCE WITH SECTION 408 OF THE STANDARD SPECIFICATIONS.



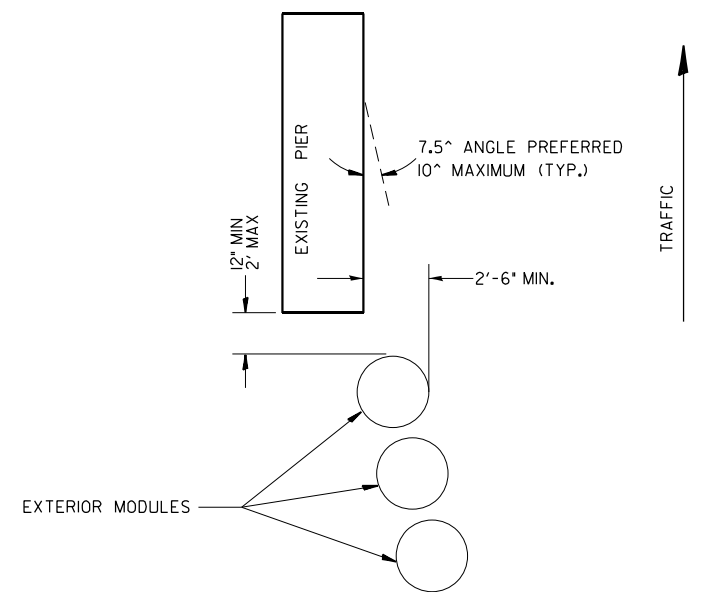
PLAN



ELEVATION

WOOD POST DETAIL

IMPACT ATTENUATOR LAYOUT PLAN



TYPICAL EXTERIOR MODULE LAYOUT

- NOTES:**
1. THE PAY ITEM *REPLACE IMPACT ATTENUATORS, (NON-REDIRECTIVE), TEST LEVEL 3* HAS BEEN INCLUDED TO REPLACE INDIVIDUAL DAMAGED SAND MODULES.
 2. REPLACEMENT MODULES SHALL MATCH THE KIND OF MODULES THAT ARE REMAINING.
 3. IMPACT ATTENUATORS SHALL BE IN ACCORDANCE WITH SECTION 643 FOR IMPACT ATTENUATORS, AND WITH STANDARD 64300L.
 4. THIS SHEET SHOWS THE LAYOUT INFORMATION FOR REPLACEMENT OF SAND MODULES (IMPACT ATTENUATORS) AT A TYPICAL INTERSTATE LOCATION.
 5. ADJACENT SAND MODULE IMPACT ATTENUATORS THAT ARE NOT DAMAGED, BUT HAVE BEEN SHIFTED Laterally FROM THEIR ORIGINAL POSITION SHALL BE REALIGNED OR MOVED BACK TO THEIR ORIGINAL POSITION, AS DIRECTED BY THE ENGINEER. REALIGNMENT OR MOVING OF ADJACENT UNDAMAGED MODULES SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF REPLACEMENT. THE WORK TO REALIGN OR SHIFT UP TO 2 MODULES SHALL BE INCLUDED WITH EACH REPLACED SAND MODULE IMPACT ATTENUATOR.

TIMBER CURB & HMA CURB REPAIR

MODEL: Default FILE: \\blm\p\project\3080\project\3080\Drawings\DOT_0_csr\District_3080\Project\3080\Drawings\66P31\bit-detail.dgn

* DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 25

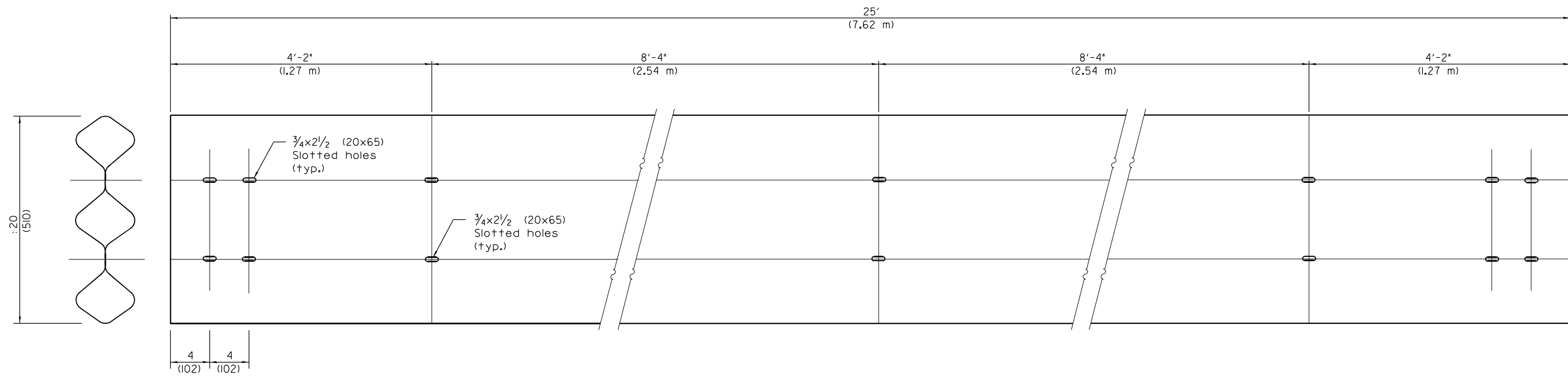
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PLOT DATE = 2/27/2024	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

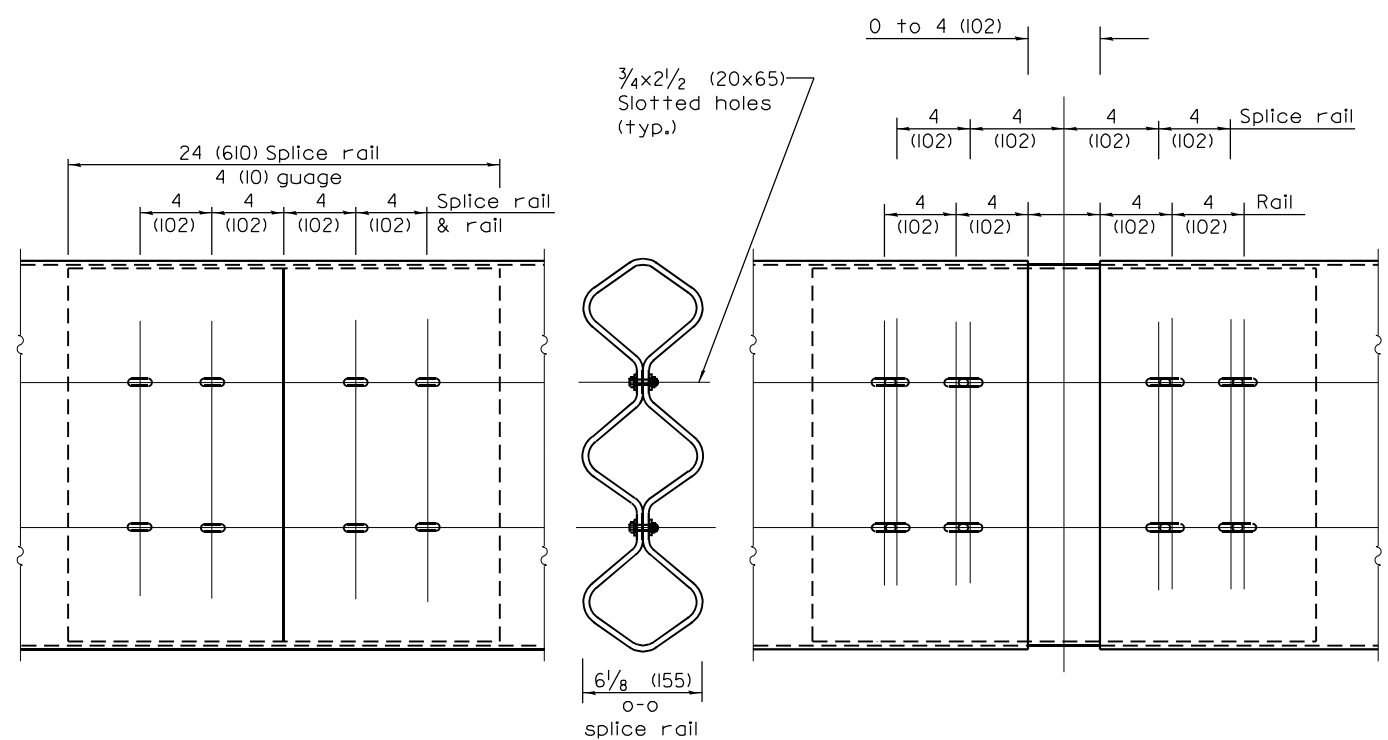
**TIMBER CURB & BITUMINOUS CURB REPAIR
& GUARD POST DETAIL & IMPACT ATTENUATOR PLAN**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	VARIOUS	20	10
			CONTRACT NO. 66P31	
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.



TUBULAR THRIE BEAM FOR INTERNAL SPLICE JOINT



INTERNAL SPLICE JOINT

INTERNAL EXPANSION SPLICE JOINT

BOTTOM VIEW OF INTERNAL EXPANSION SPLICE JOINT

GENERAL NOTES

Plate Washers B are to be placed under both heads and nuts of splicing bolts for internal splice and internalexansion splice joint.

Plate Washers C are to be placed under both heads and nuts of splicing bolts for lap expansion and internallap splice joint.

See Standard 630001 for details of guardrail not shown.

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

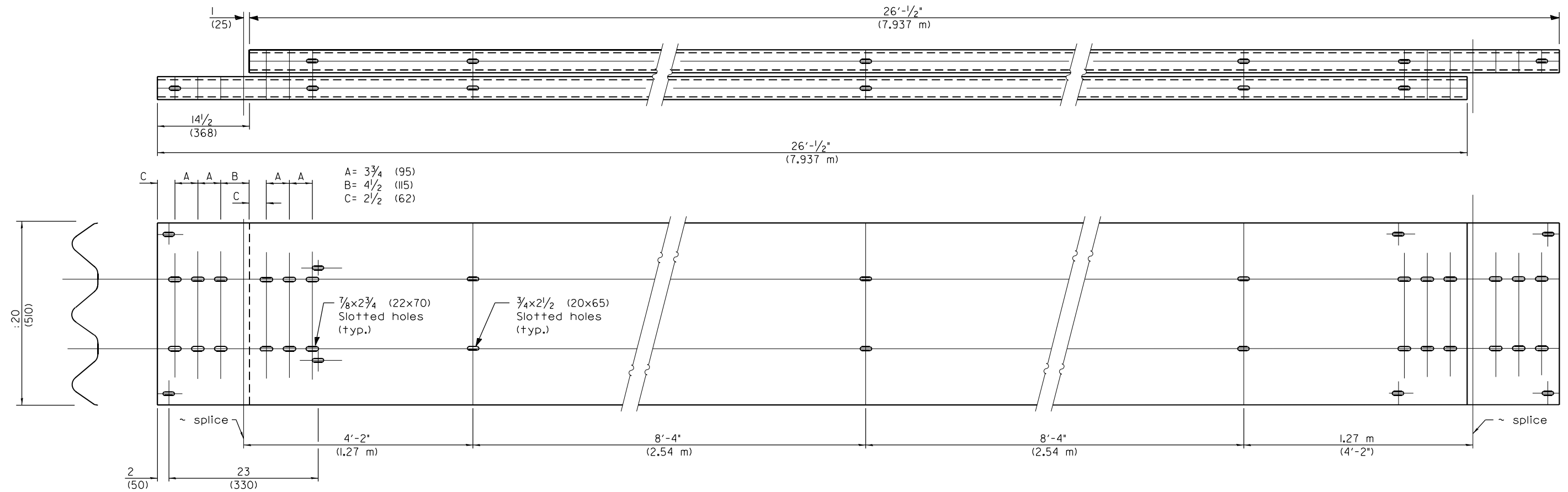
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	DATE -	REVISED -

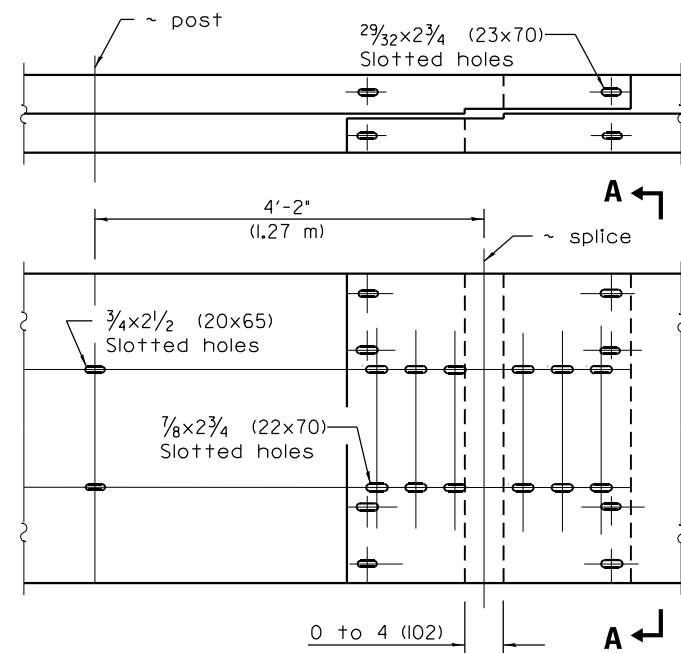
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TUBULAR THRIE BEAM	
RETROFIT RAIL FOR BRIDGES	
SCALE:	SHEET OF SHEETS STA. TO STA.

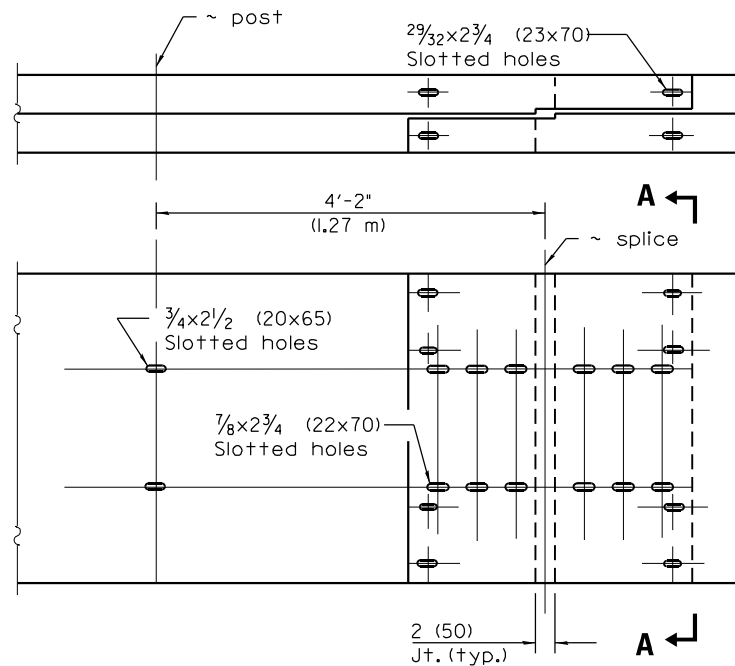
* DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 25				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	VARIOUS	20	11
			CONTRACT NO. 66P31	
		ILLINOIS FED. AID PROJECT		



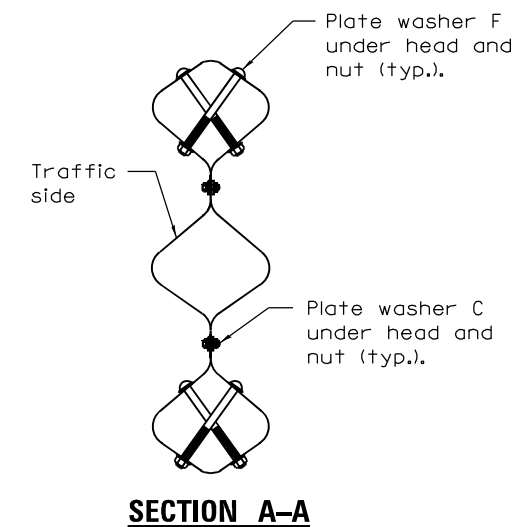
TUBULAR THRIE BEAM FOR LAP SPICE JOINT



LAP EXPANSION SPICE JOINT



LAP SPICE JOINT



SECTION A-A

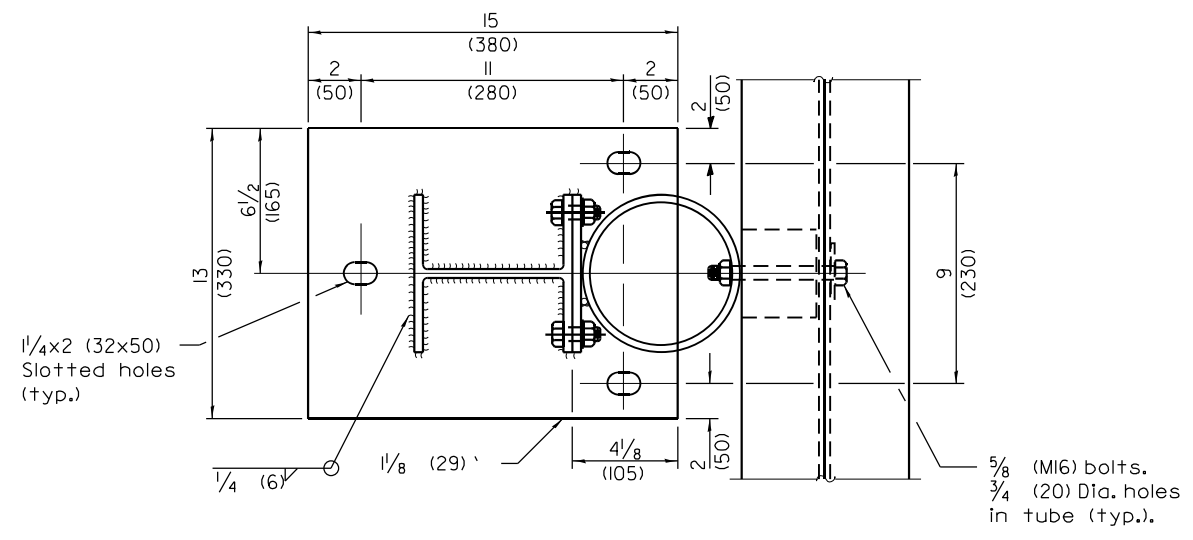
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PLOT SCALE = \$SCALES	DRAWN -	REVISED -
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

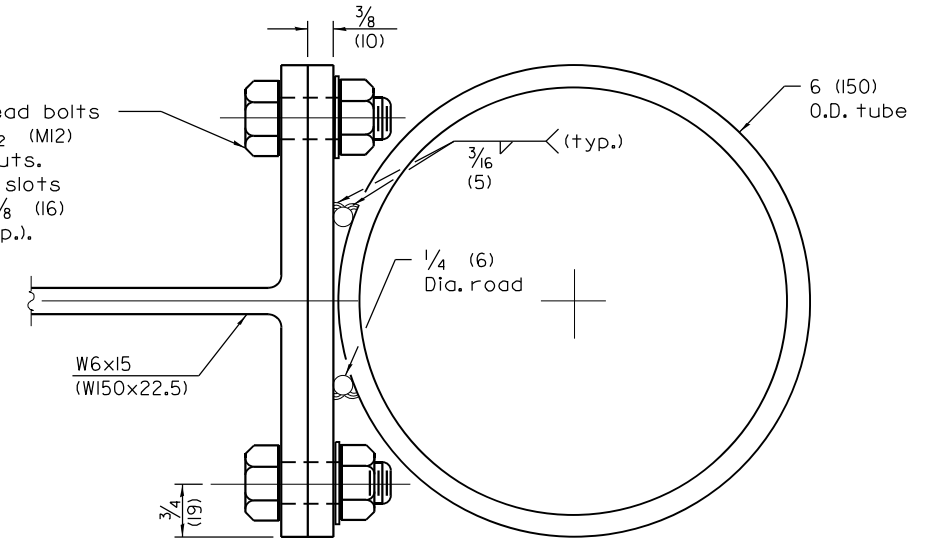
TUBULAR THRIE BEAM RETROFIT RAIL FOR BRIDGES	
SCALE:	SHEET OF SHEETS STA. TO STA.

* DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 25				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	VARIOUS	20	12
			CONTRACT NO. 66P31	
ILLINOIS FED. AID PROJECT				

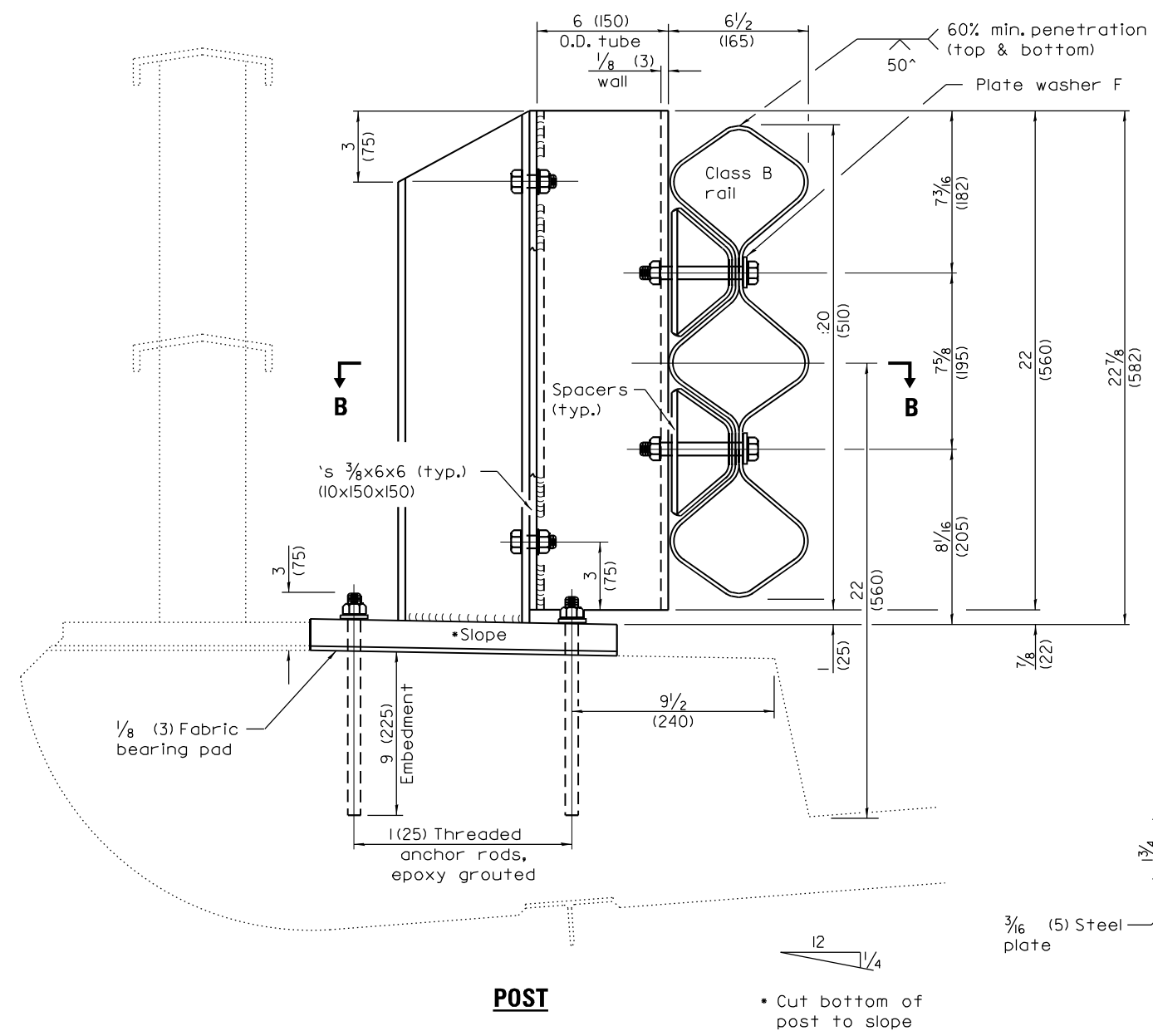


SECTION B-B

1/2 x 1/4 (M12x32) hex head bolts with hex nuts and 1/2 (M12) flat washer under nuts.
 5/8 x 1/2 (16x38) vertical slots in 3/8 (10) plate and 5/8 (16) dia. holes in post (typ.).

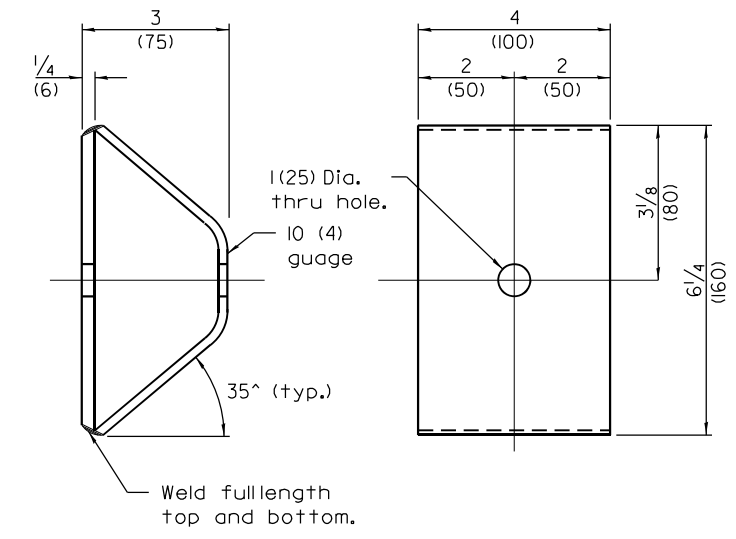


TUBE TO POST ATTACHMENT



POST

* Cut bottom of post to slope



SPACER

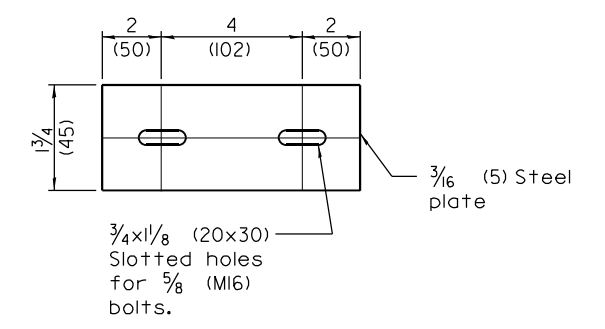


PLATE WASHER B

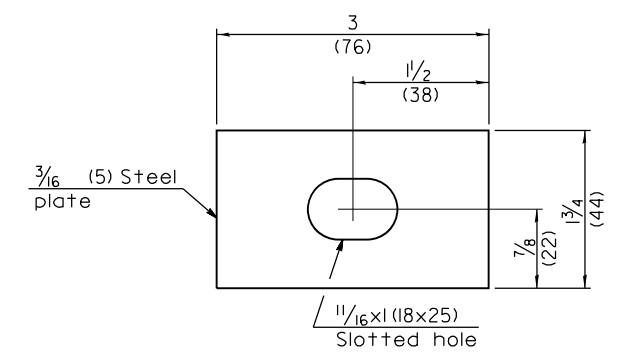


PLATE WASHER F

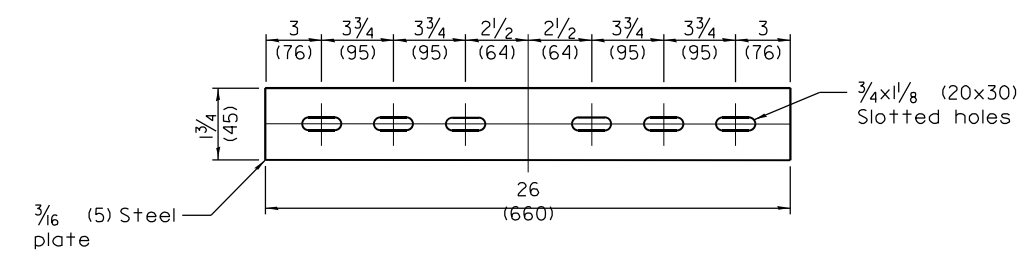


PLATE WASHER C

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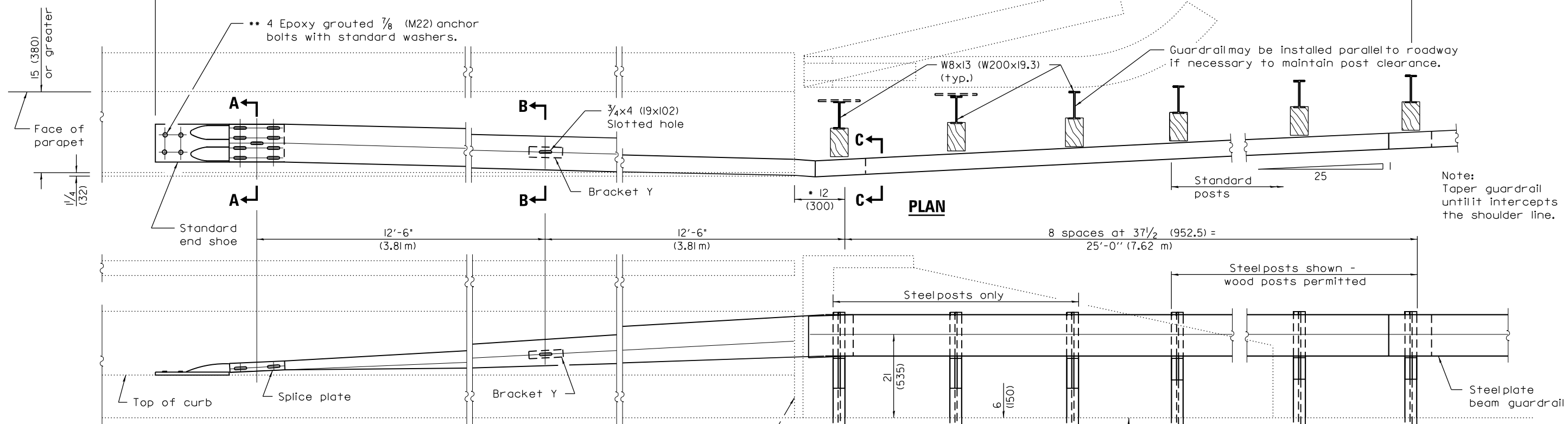
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PLOT SCALE = \$SCALES	DRAWN -	REVISED -
PLOT DATE = 2/27/2024	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TUBULAR THRIE BEAM
 RETROFIT RAIL FOR BRIDGES**

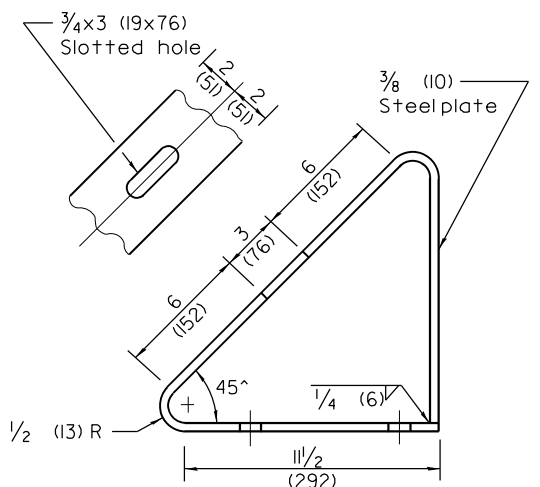
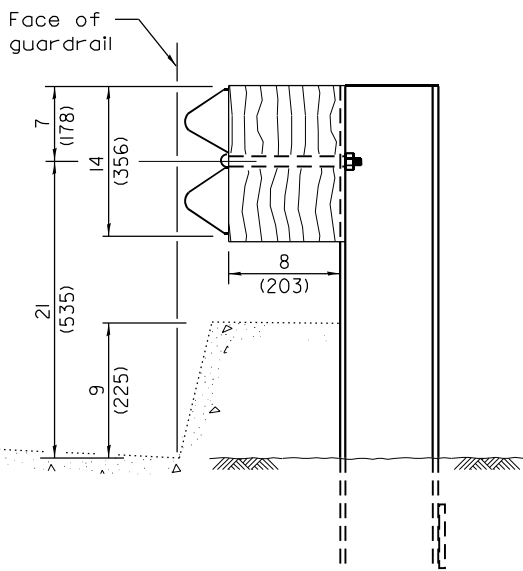
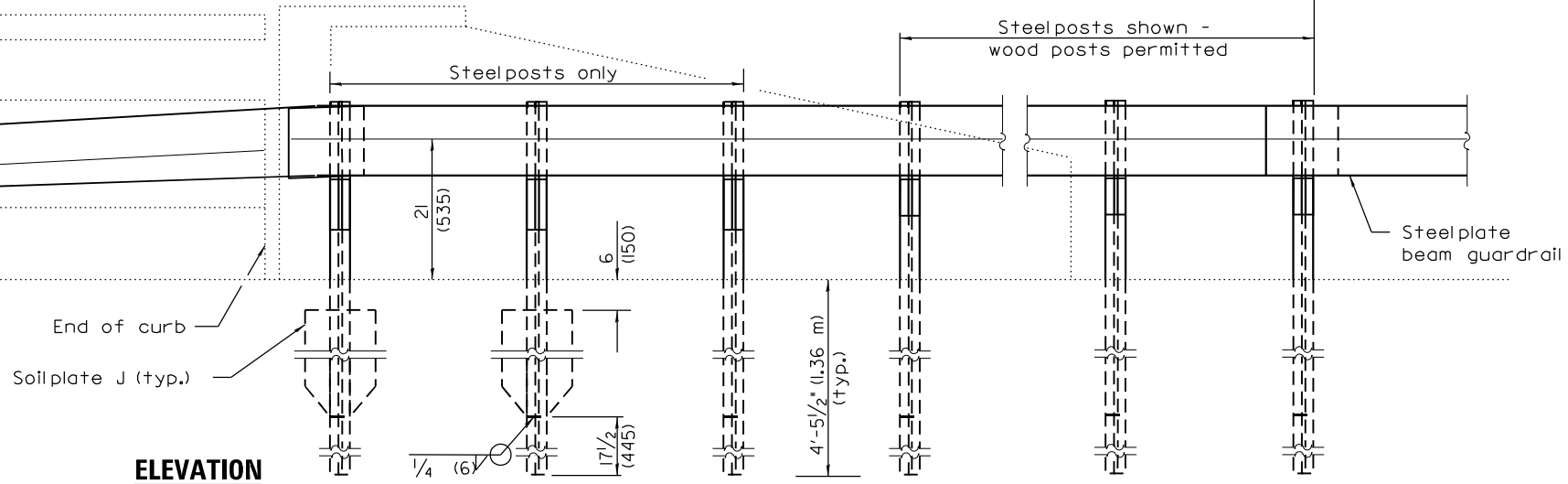
SCALE: SHEET OF SHEETS STA. TO STA.

* DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 25			
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS
VAR.	*	VARIOUS	20
			SHEET NO. 13
			CONTRACT NO. 66P31
		ILLINOIS	FED. AID PROJECT

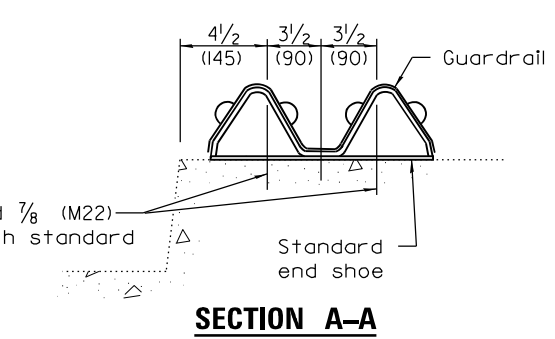


Note: Taper guardrail until it intercepts the shoulder line.

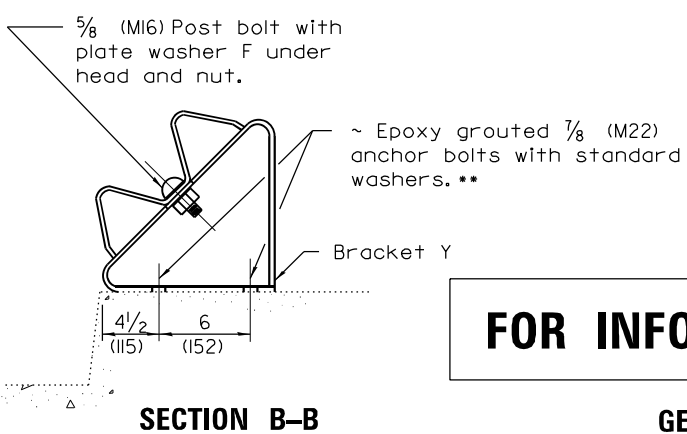
ELEVATION



SECTION A-A



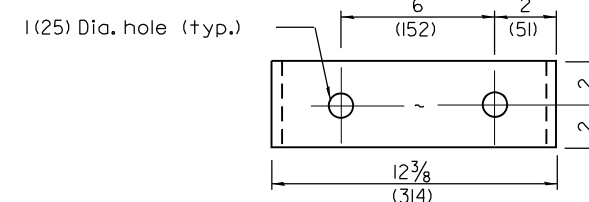
SECTION B-B



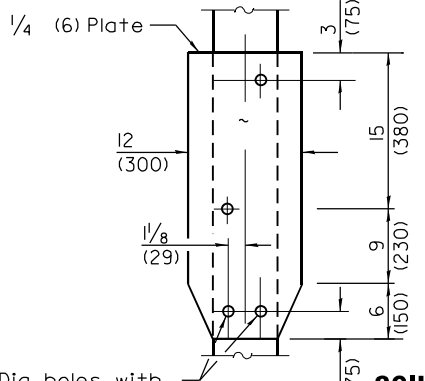
FOR INFORMATION ONLY

GENERAL NOTES

- See Standard 63000I for details of guardrail not shown.
 - This dimension may be increased to fit field conditions. This post shall be located first. The layout of the terminal shall be determined by its location.
 - After tightening, cut the anchor bolts flush with nuts, and damage the bolt head to prevent them from loosening.
- All dimensions are in inches (millimeters) unless otherwise shown.



BRACKET Y



SOIL PLATE J & ALTERNATE CONNECTION DETAILS

4-3/4 (19) Dia. holes with 5/8 (M16) hex head bolts with std. hex nut (typ.)

MODEL: Default
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	DATE -	REVISED -

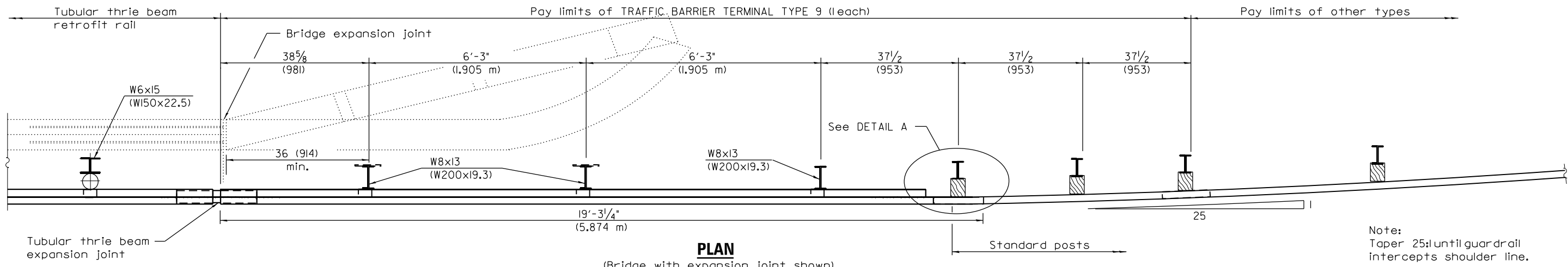
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC BARRIER TERMINAL TYPE 8

SCALE: SHEET OF SHEETS STA. TO STA.

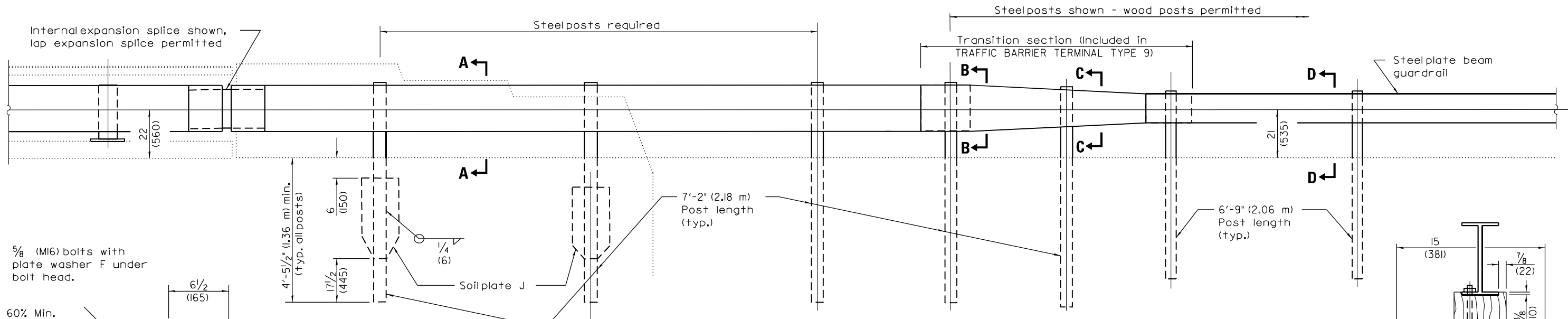
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	VARIOUS	20	14
			CONTRACT NO. 66P31	
ILLINOIS FED. AID PROJECT				

* DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 25

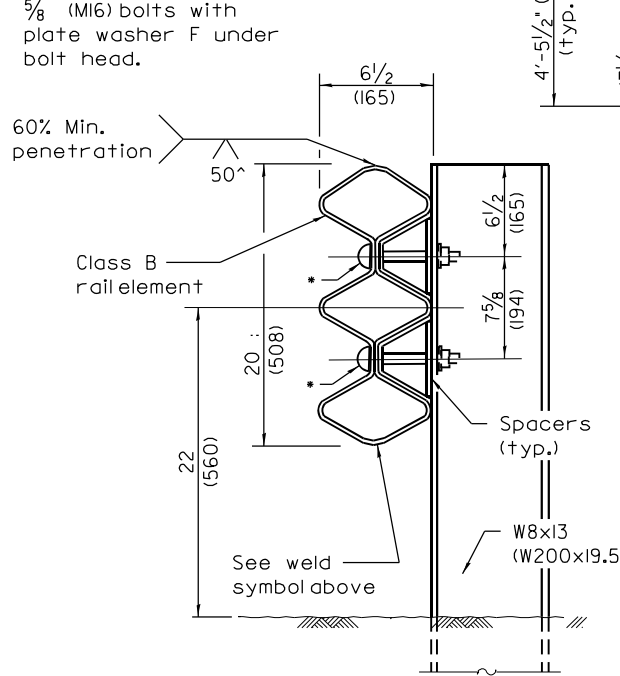


PLAN
(Bridge with expansion joint shown)

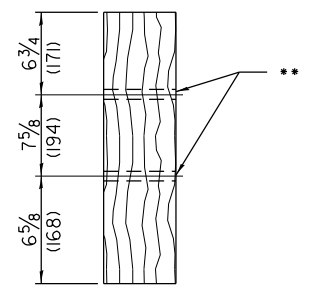
Note:
Taper 25:1 until guardrail intercepts shoulder line.



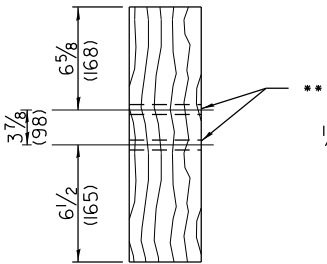
ELEVATION



SECTION A-A



SECTION B-B

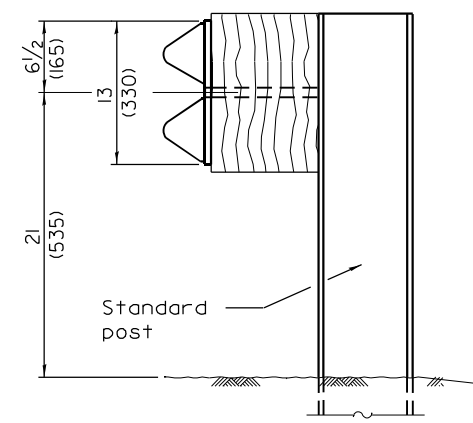


SECTION C-C

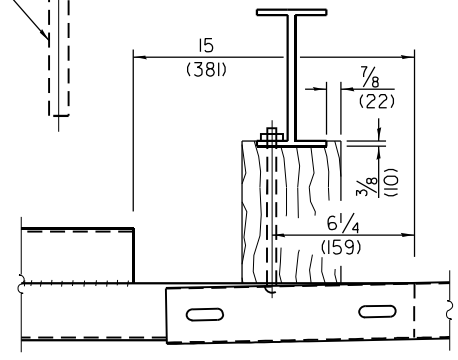
DETAILS of BLOCK-OUTS
•• ~ 3/4 (19) Dia. hole

4-3/4 (19) Dia. holes with
5/8 (M16) hex head bolts
with std. hex nut (typ.)

SOIL PLATE J & ALTERNATE CONNECTION DETAILS



SECTION D-D



DETAIL A

FOR INFORMATION ONLY

GENERAL NOTES

See Standards 50900I and 63000I for details of guardrail elements not shown.
The Type 9 terminal shall be installed after the posts for the bridge retrofit rail have been located as shown on Standard 50900I.
All dimensions are in inches (millimeters) unless otherwise shown.

* DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 25

MODEL: Default
FILE: \\distr3-hwy-beh-hq.com\P\DOT\Documents\DOT_0_ces\District_3\ORR\Projects\3080\Projects\3080\31CAD\Draws\66P31-Sub-detail.dgn

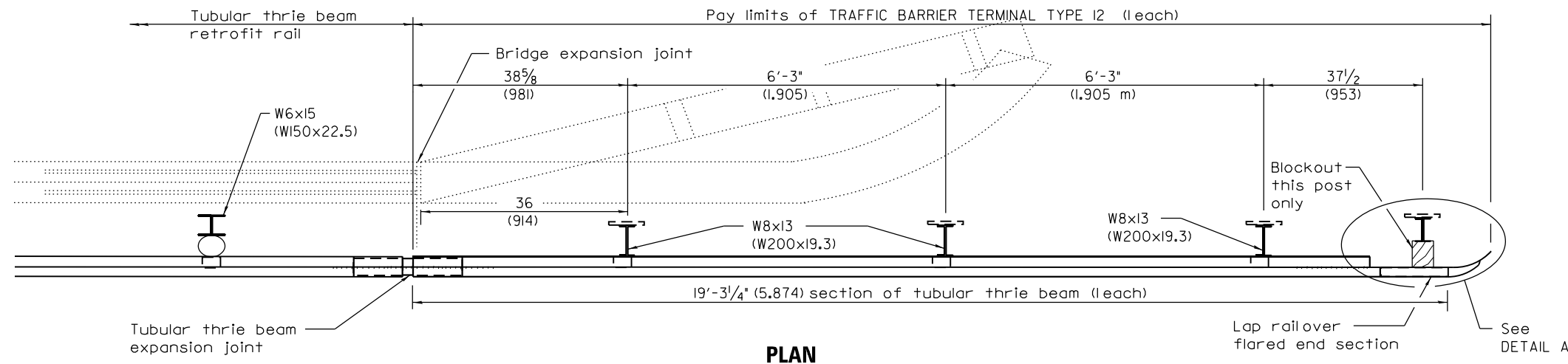
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PLOT SCALE = \$SCALES	DRAWN -	REVISED -
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

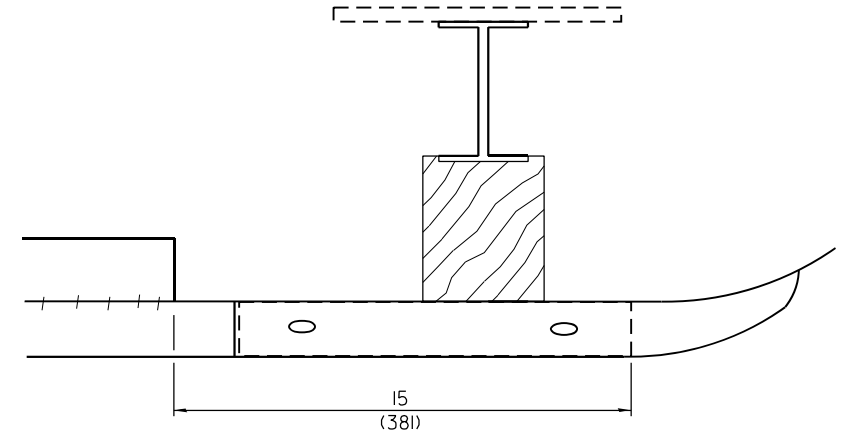
TRAFFIC BARRIER TERMINAL TYPE 9

SCALE: SHEET OF SHEETS STA. TO STA.

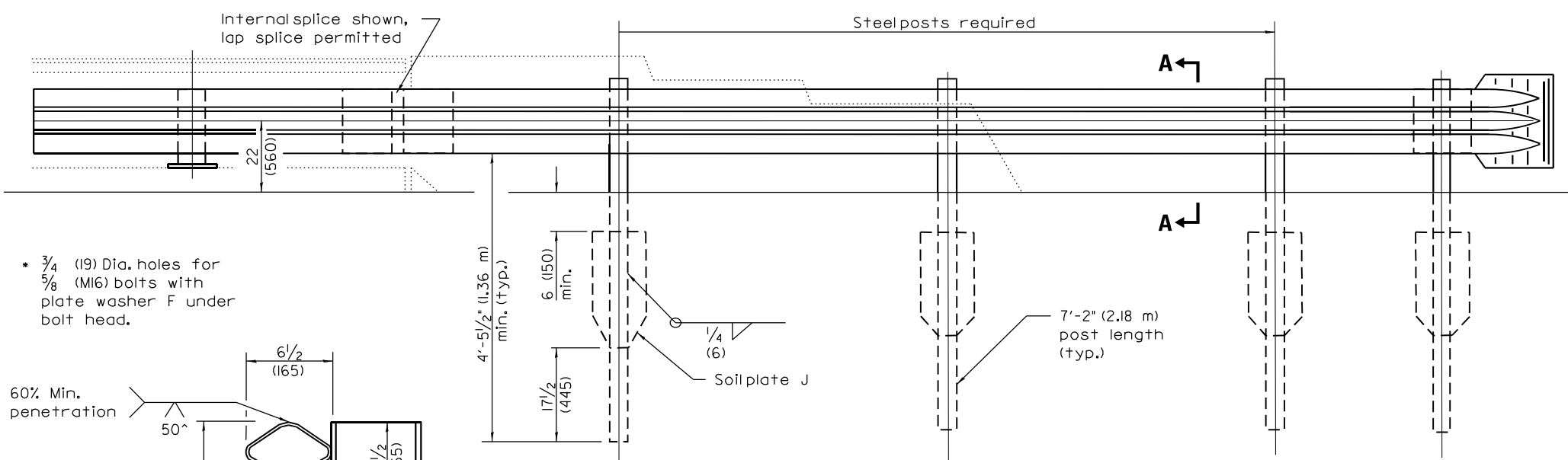
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	VARIOUS	20	15
			CONTRACT NO. 66P31	
ILLINOIS FED. AID PROJECT				



PLAN
(Bridge with expansion joint shown)

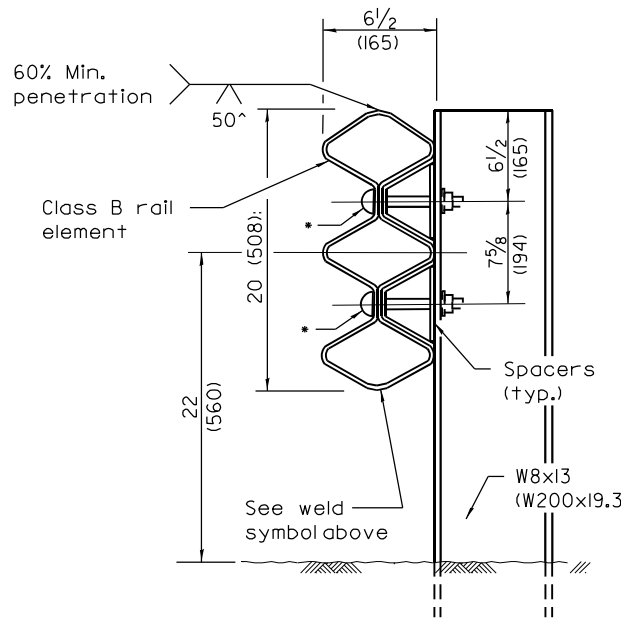


DETAIL A

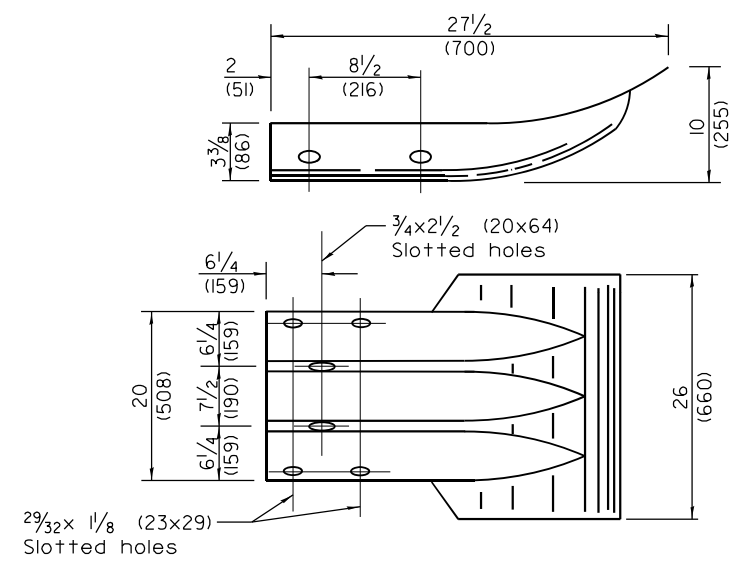


ELEVATION

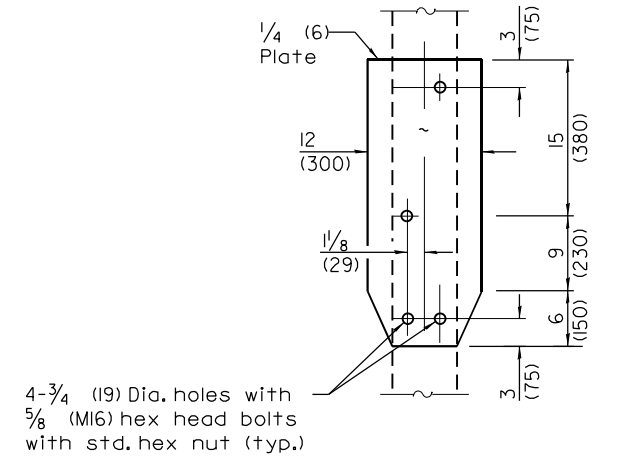
- 3/4 (19) Dia. holes for 5/8 (M16) bolts with plate washer F under bolt head.



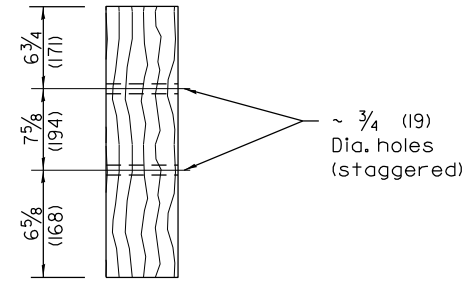
SECTION A-A



THRIE BEAM FLARED END SECTION



SOIL PLATE J & ALTERNATE CONNECTION DETAILS



DETAIL of BLOCK-OUT
(leach)

FOR INFORMATION ONLY

GENERAL NOTES

See Standard 50900I and 63000I for details of guardrailelements not shown.

The Type I2 terminal shall be installed after the posts for the bridge retrofit rail have been located as shown on Standard 50900I.

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

* DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 25

MODEL: Default
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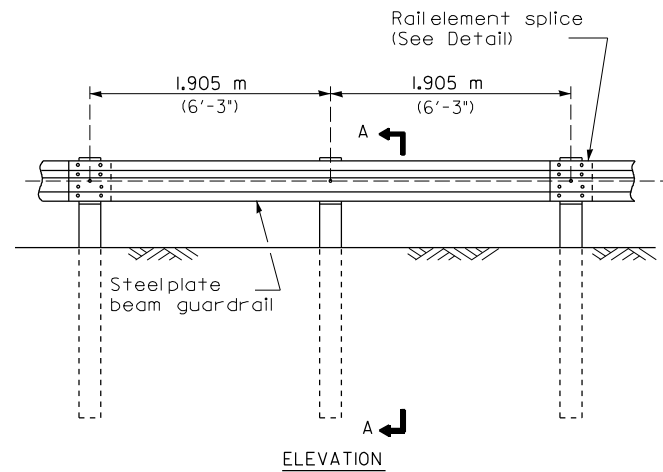
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DRAWN -	REVISOR -	
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PLOT DATE = 2/27/2024	DATE -	REVISOR -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

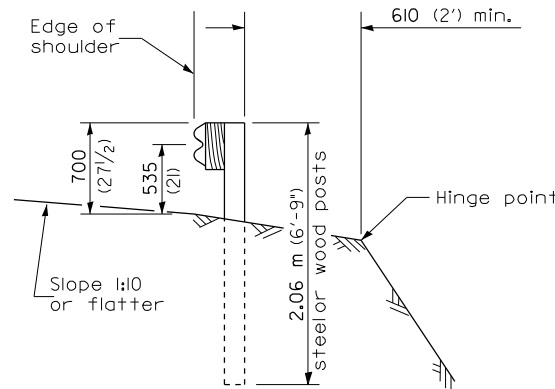
TRAFFIC BARRIER TERMINAL TYPE 12

SCALE: SHEET OF SHEETS STA. TO STA.

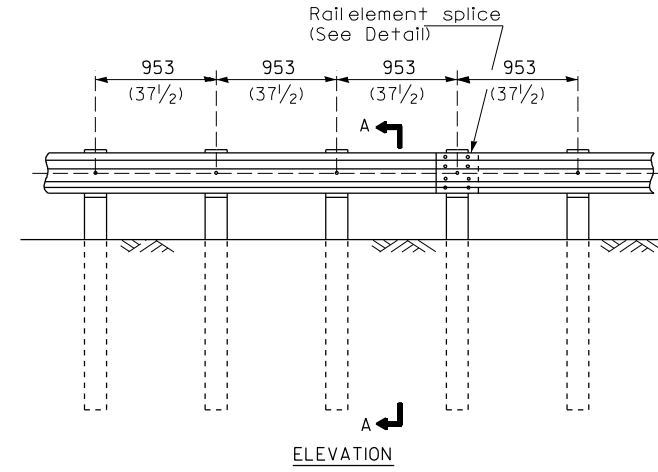
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	VARIOUS	20	16
			CONTRACT NO. 66P31	
		ILLINOIS FED. AID PROJECT		



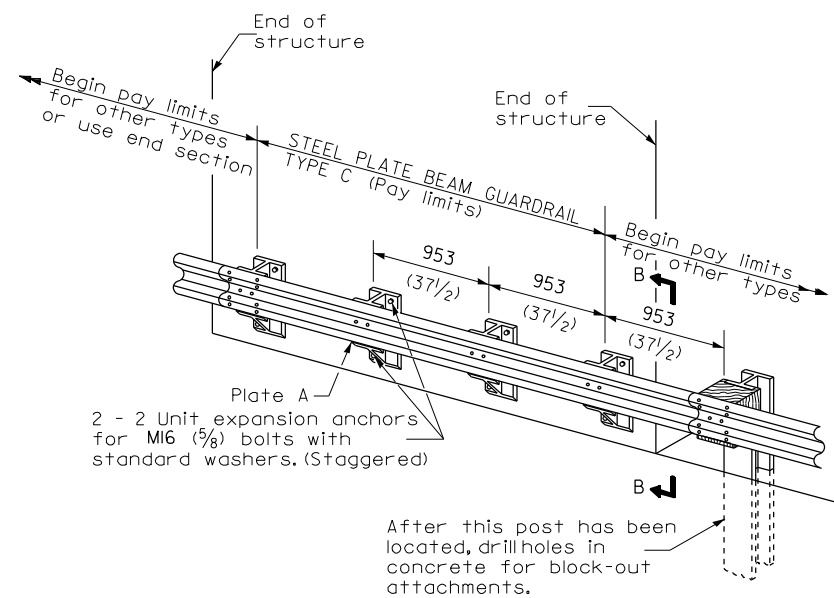
TYPE A
1,905 m (6'-3") Typical post spacing



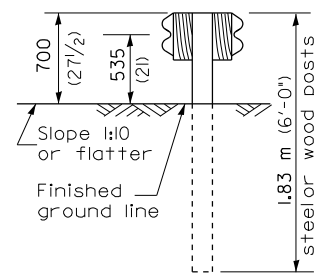
SECTION A-A



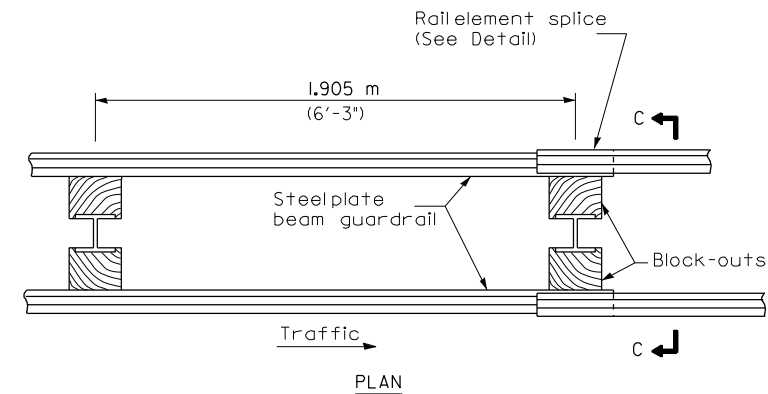
TYPE B
953 (37 1/2) Closed post spacing



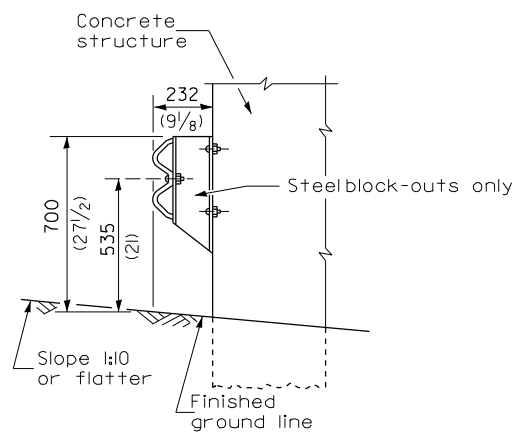
TYPE C
953 (37 1/2) Block-out spacing



SECTION C-C



TYPE D
Double steelplate beam guardrail
1,905 m (6'-3") typical post spacing



SECTION B-B

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.

FOR INFORMATION ONLY

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PROJECT: 31080 District 3
DRAWN: J. C. Adams
DATE: 2/27/2024

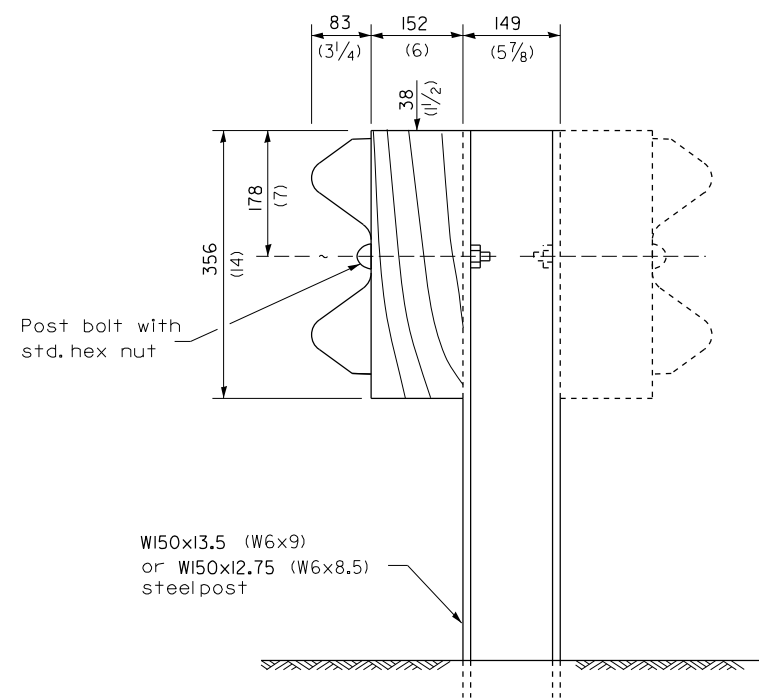
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DEPARTMENT OF TRANSPORTATION**

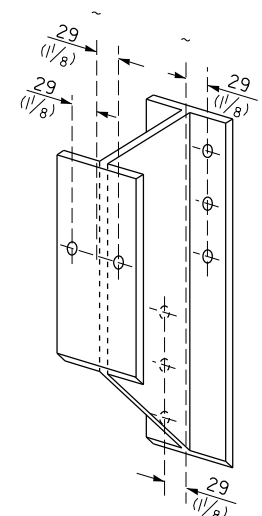
**PRE-MGS EFFECTIVE 4-1-06
STEEL PLATE BEAM GUARDRAIL STANDARD 630001-06**

SCALE: SHEET OF SHEETS STA. TO STA.

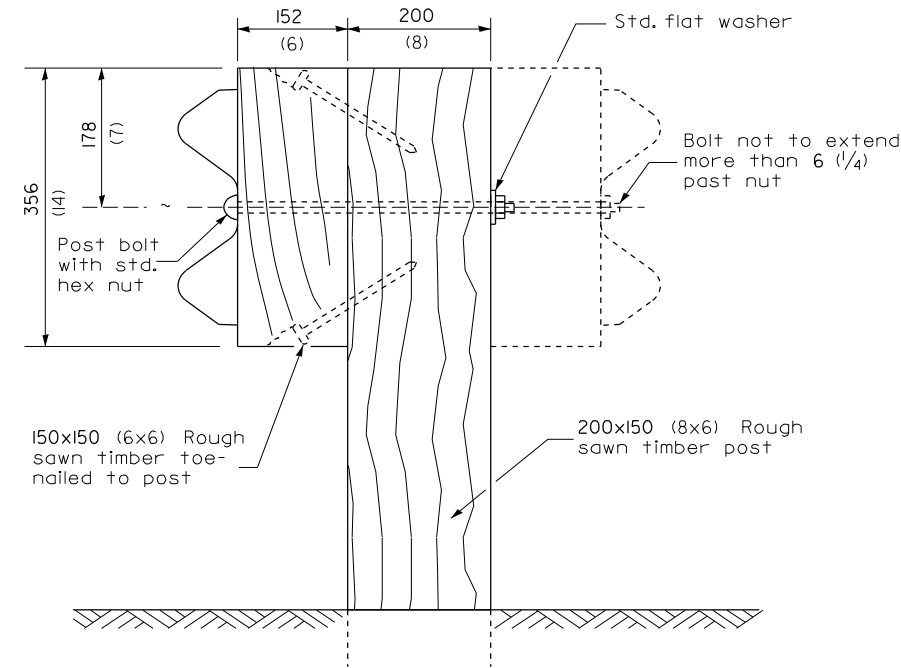
* DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 25				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	VARIOUS	20	17
			CONTRACT NO. 66P31	
		ILLINOIS	FED. AID PROJECT	



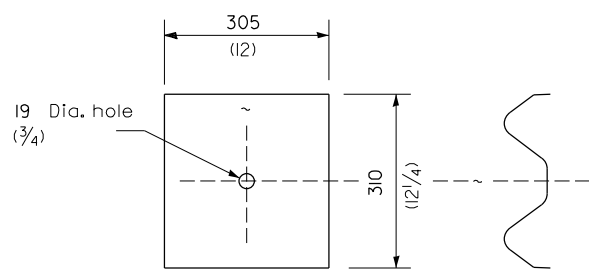
STEEL POST CONSTRUCTION



STEEL BLOCK-OUT DETAIL



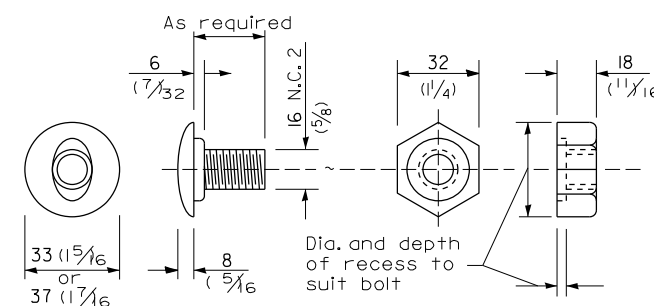
WOOD POST CONSTRUCTION



NOTE

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

PLATE A



POST OR SPLICE BOLT & NUT

FOR INFORMATION ONLY

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

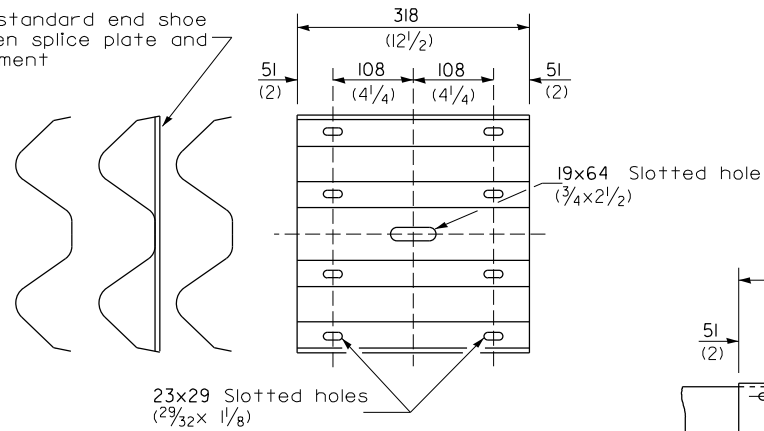
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STEEL PLATE BEAM GUARDRAIL STANDARD 630001-06**

SCALE: SHEET OF SHEETS STA. TO STA.

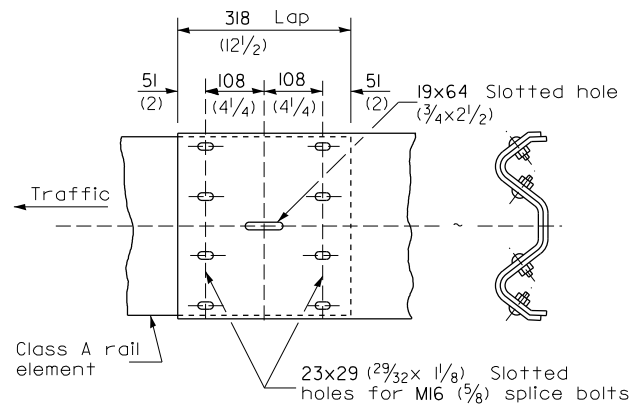
* DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 25

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	VARIOUS	20	18
			CONTRACT NO. 66P31	
		ILLINOIS	FED. AID PROJECT	

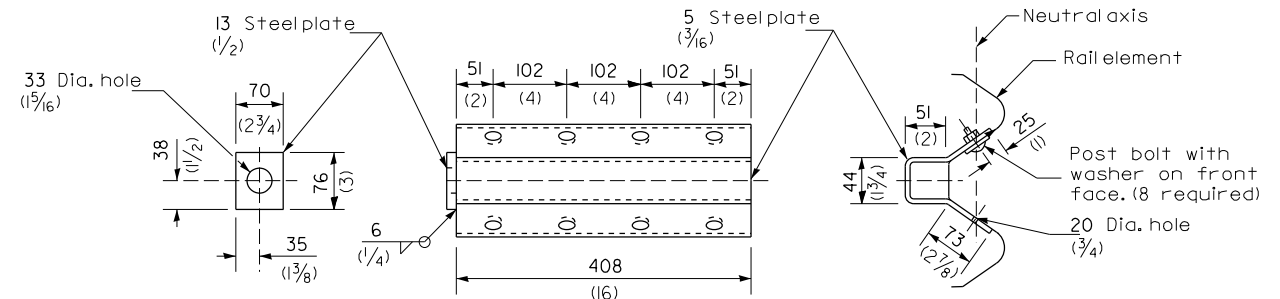
Place standard end shoe between splice plate and rail element



SPLICE PLATE



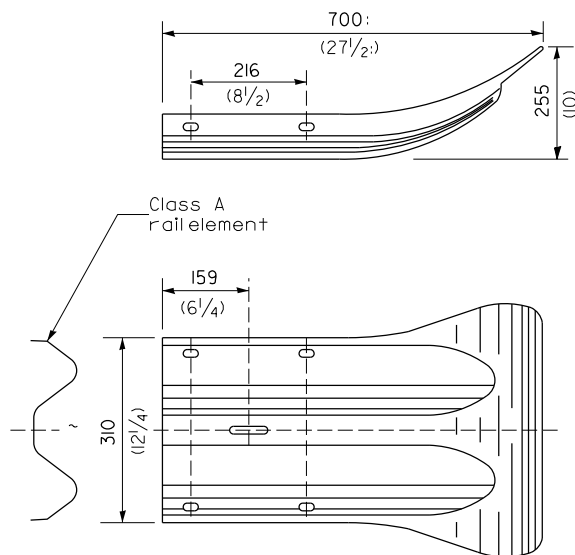
RAIL ELEMENT SPLICE



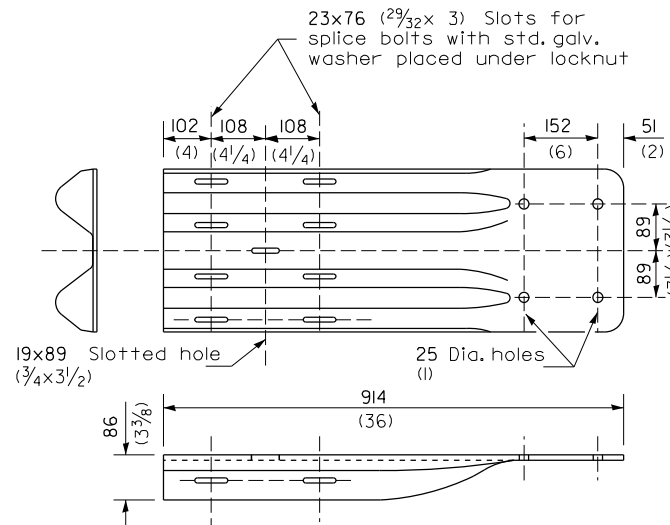
NOTE

Anchor plate T shall be used to attach cable assembly to guardrail when required on traffic barrier terminals.

ANCHOR PLATE T DETAILS



END SECTION



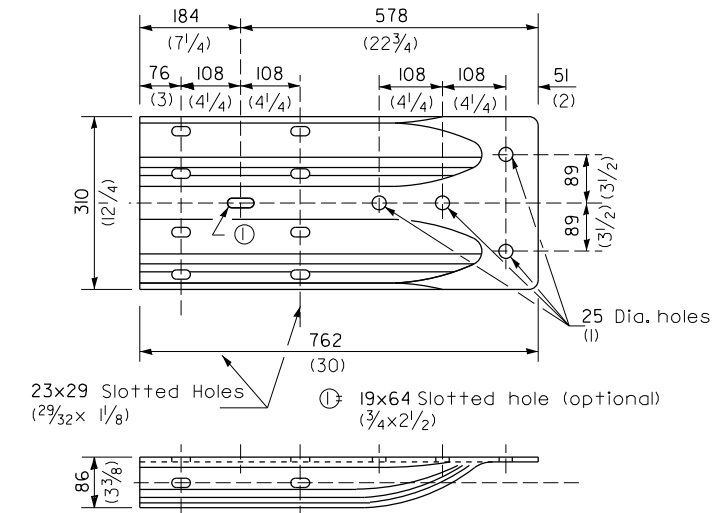
NOTE

When end shoe is attached to a bridge parapet which has an expansion joint, the bolts shall be provided with a locknut or double nut and shall be tightened only to a point that will allow guardrail movement.

The standard end shoe shall be attached to the concrete with pre-drilled or self-drilling anchor bolts. The anchor cone shall be set flush with the surface of the concrete.

Externally threaded studs protruding from the surface of the concrete will not be permitted.

END SHOE



ALTERNATE END SHOE

FOR INFORMATION ONLY

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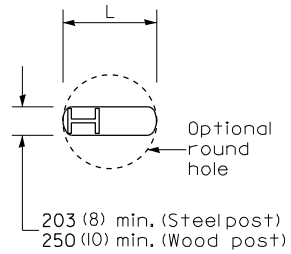
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DEPARTMENT OF TRANSPORTATION

PRE-MGS EFFECTIVE 4-1-06
STEEL PLATE BEAM GUARDRAIL STANDARD 630001-06

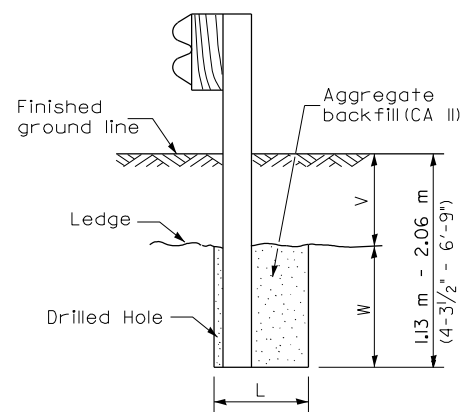
SCALE: SHEET OF SHEETS STA. TO STA.

* DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 25

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	VARIOUS	20	19
			CONTRACT NO. 66P31	
			ILLINOIS FED. AID PROJECT	

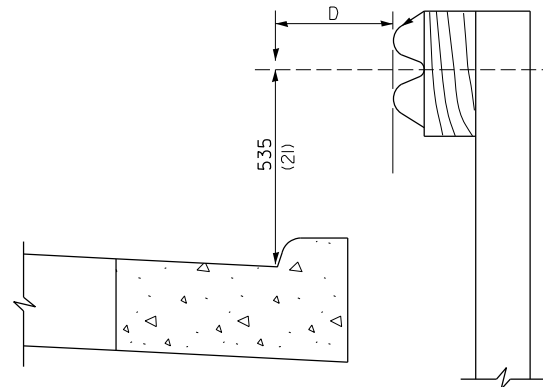


PLAN



ELEVATION

FOOTING FOR POST WHEN IMPERVIOUS MATERIAL IS ENCOUNTERED

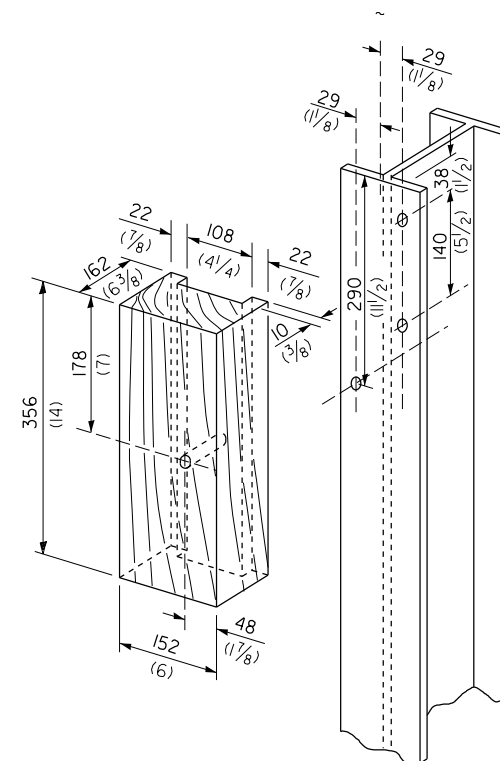


Note:

If it is necessary for D to be more than 300 (12) and less than 3.0 m (10'-0") type M-5 (M-2) curb and gutter (Std. 606001) shall be used in front of and in advance of the guardrail.

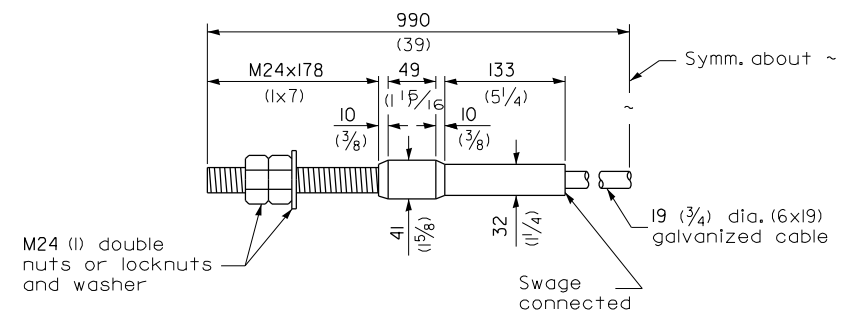
GUARDRAIL PLACED BEHIND CURB

(D = 0 desirable to 300 (12) maximum)



WOOD BLOCK-OUT AND STEEL POST DETAILS

V	W	L	
		Steel Post	Wood Post
0 - 460 (0 - 18)	610 (24)	530 (21)	580 (23)
>460 - 825 (>18 - 41.5)	305 (12)	203 (8)	250 (10)
>825 - 1.13 m (>41.5 - 53.5)	305 - 0 (12 - 0)	203 (8)	250 (10)



CABLE ASSEMBLY

(18,100 (80,000 lbs.) min. breaking strength)
Tighten to taut tension.

FOR INFORMATION ONLY

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PRE-MGS EFFECTIVE 4-1-06
STEEL PLATE BEAM GUARDRAIL STANDARD 630001-06**

SCALE: SHEET OF SHEETS STA. TO STA.

* DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 25

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	*	VARIOUS	20	20
CONTRACT NO. 66P31				
ILLINOIS FED. AID PROJECT				