

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	VARIOUS	20	1
		ILLINOIS	CONTRACT NO. 66L80	

\* DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 22

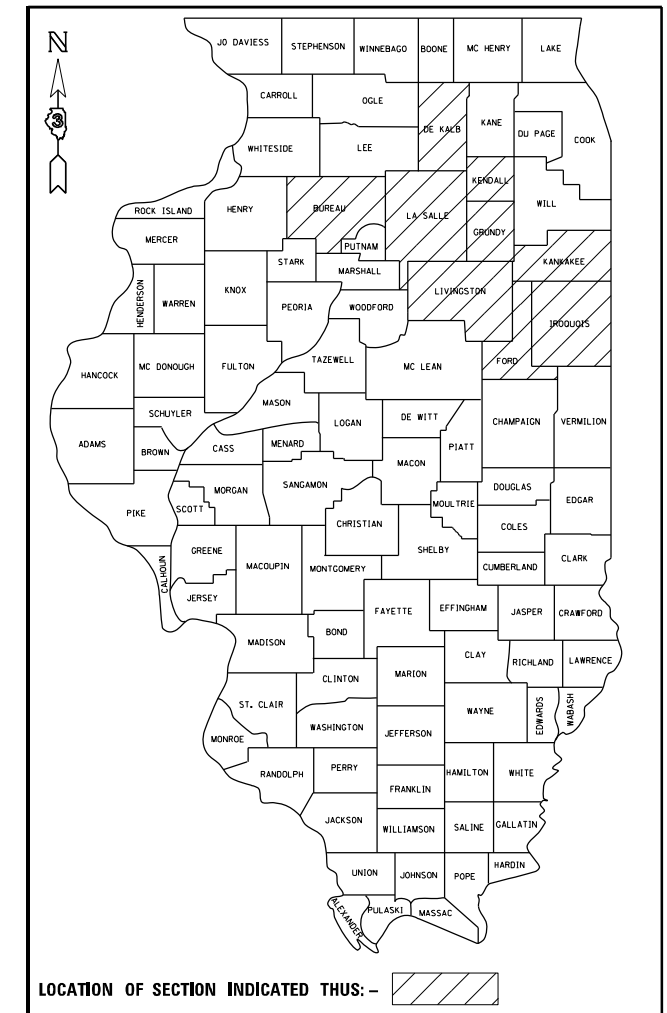
**INDEX OF SHEETS**

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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 22  
VARIOUS COUNTIES

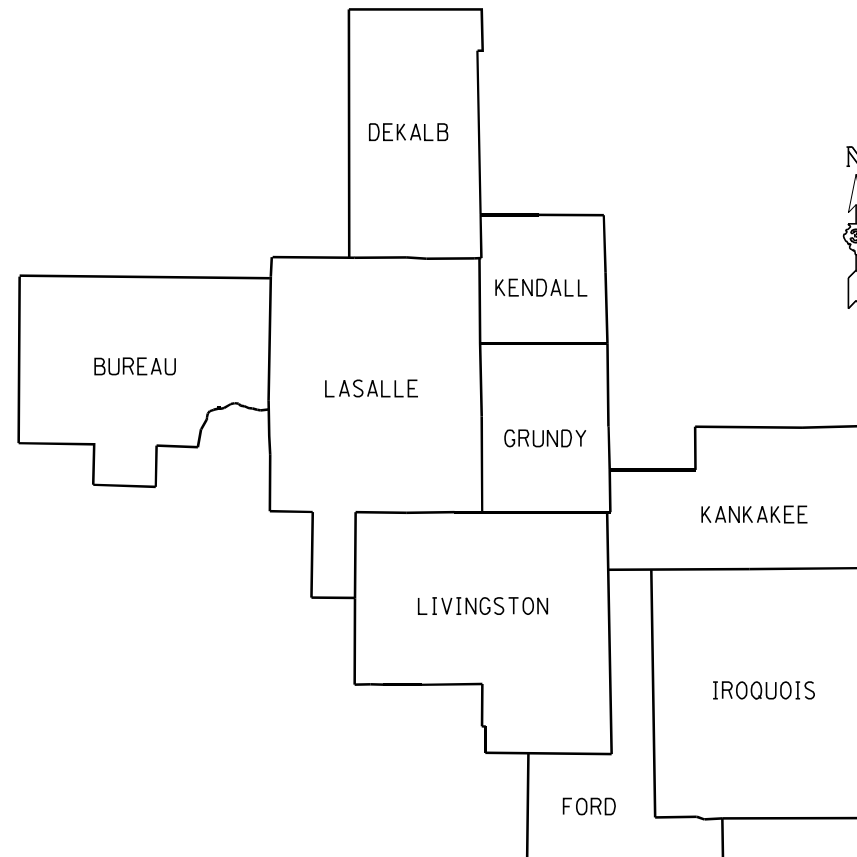
D-93-047-21



**HIGHWAY STANDARDS**

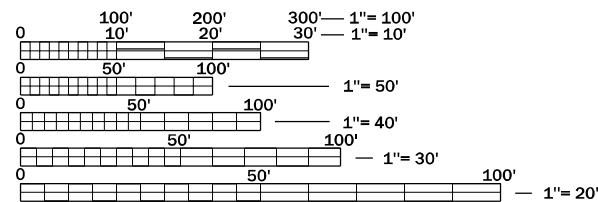
SEE PAGE 2 FOR LIST OF HIGHWAY STANDARDS

C-93-082-21  
REPAIRING MOTORIST CAUSED DAMAGE TO HIGHWAY FACILITIES



**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: BRAD DUNCAN, PE  
UNIT CHIEF: DARCY CARPENTER  
DISTRICT 3 NO. (815) 434-6131  
CONTRACT NO. 66L80

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 24, 2021

*[Signature]*  
REGIONAL ENGINEER

May 7, 2021 *[Signature]*  
ENGINEER OF DESIGN AND ENVIRONMENT

May 7, 2021 *[Signature]*  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

**LIST OF ILLINOIS DOT HIGHWAY STANDARDS**

- 630001-12 STEEL PLATE BEAM GUARDRAIL
- 630006 NON-BLOCKED STEEL PLATE BEAM GUARDRAIL
- 630101-10 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
- 631031-17 TRAFFIC BARRIER TERMINAL, TYPE 6
- 631032-09 TRAFFIC BARRIER TERMINAL, TYPE 6A
- 631033-08 TRAFFIC BARRIER TERMINAL, TYPE 6B
- 631046-04 TRAFFIC BARRIER TERMINAL, TYPE 10
- 631051-03 TRAFFIC BARRIER TERMINAL, TYPE 11
- 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' (4.5 m) AWAY
- 701006-05 OFF-ROAD OPERATIONS 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
- 701011-04 OFF-ROAD MOVING OPERATIONS 2L, 2W, DAY ONLY
- 701101-05 OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
- 701106-02 OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
- 701201-05 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701400-10 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701401-12 LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701406-12 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
- 701901-08 TRAFFIC CONTROL DEVICES
- 725001-01 OBJECT AND TERMINAL MARKERS
- 782006-01 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
- 001006 DECIMAL OF INCH AND FOOT

**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 CONTRACTOR IS REMINDED TO CAREFULLY EXAMINE THIS CONTRACT FOR NEW OR CHANGED CONDITIONS FROM ANY PREVIOUS VERSION HE MAY HAVE EXAMINED.

THE REMOVAL OF DAMAGED GUARDRAIL, DAMAGED HIGH-TENSION CABLE, AND DAMAGED POSTS SHALL NOT BE PAID FOR SEPERATELY 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.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE J.U.L.I.E. NUMBER IS 1-800-892-0123. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED.

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

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DISTRICT THREE  
AS BUILT INFORMATION

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DISTRICT THREE

\_\_\_\_\_  
SUPERVISING CONSTRUCTION FIELD ENGINEER

PREPARED BY: \_\_\_\_\_  
DISTRICT STUDIES & PLANS ENGINEER

\_\_\_\_\_  
RESIDENT ENGINEER / TECHNICIAN

DATE: \_\_\_\_\_

START & END DATES  
OF CONSTRUCTION: \_\_\_\_\_

EXAMINED BY: \_\_\_\_\_  
DISTRICT CONSTRUCTION ENGINEER

INSPECTORS: \_\_\_\_\_

\_\_\_\_\_  
DISTRICT MATERIALS ENGINEER

\_\_\_\_\_  
DISTRICT OPERATIONS ENGINEER

\* DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 22

FILE NAME =	USER NAME = pletschr	DESIGNED - _____	REVISED - _____	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL NOTES</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\planroom\dot\illinois\gov\PWDOT\Documents\DOT	offices\District 3\Projects\0366L80\CADData\0366L80-shi-cover.dwg	DRAWN - _____	REVISED - _____			VAR.	*		20	2	
Default	PLOT SCALE = 100,0000 / 1in.	CHECKED - _____	REVISED - _____			CONTRACT NO. 66L80					
	PLOT DATE = 3/22/2021	DATE - _____	REVISED - _____			SCALE: _____	SHEET _____	OF _____	SHEETS	STA. _____	TO STA. _____

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				MCHD 100% MCHD	CONST MAIN 100% STATE	HTC BARRIER 100% STATE
				ROADWAY 0021	ROADWAY 0021	ROADWAY 0021
				RURAL 07M0	RURAL 07E0	RURAL 07A0
63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	2	2		
63100070	TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	1	1		
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	1	1		
63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	1	1		
63100089	TRAFFIC BARRIER TERMINAL, TYPE 6B	EACH	1	1		
63100095	TRAFFIC BARRIER TERMINAL, TYPE 8	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		
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	35	30	5	
63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	8	5	3	
63301210	REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	250		250	
63301215	REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE B	FOOT	250		250	
64300260	IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1	1		

\* DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 22

USER NAME = pletschr	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = 100,0000' / in.	CHECKED - _____	REVISED - _____
PLOT DATE = 3/22/2021	DATE - _____	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: \_\_\_\_\_ SHEET \_\_\_\_ OF \_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	VARIOUS	20	3
CONTRACT NO. 66L80				
ILLINOIS FED. AID PROJECT				

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				MCHD 100% MCHD	CONST MAIN 100% STATE	HTC BARRIER 100% STATE
				ROADWAY 0021	ROADWAY 0021	ROADWAY 0021
				RURAL 07M0	RURAL 07E0	RURAL 07A0
66400105	CHAIN LINK FENCE, 4'	FOOT	100	100		
66400305	CHAIN LINK FENCE, 6'	FOOT	100	100		
66500105	WOVEN WIRE FENCE, 4'	FOOT	5500	5000	500	
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	150	50	100	
X0320057	REPAIR IMPACT ATTENUATORS (FULLY REDIRECTIVE)	EACH	2	2		
X0321563	REPAIR TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL	EACH	30	20	10	
X0322878	TIMBER CURB	FOOT	32	32		
X0326126	WOOD TERMINAL POST	EACH	2	1	1	
X0327278	REPAIR HIGH TENSION CABLE	FOOT	1000	500		500
X0327279	REPLACE HIGH TENSION CABLE END SECTION	EACH	2	1		1
X0327281	REMOVE AND REPLACE HIGH TENSION CABLE POST	EACH	650	300		350
X0327282	REMOVE AND REPLACE HTC POST (HEAVY DUTY)	EACH	500	200		300

\* DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 22

USER NAME = pletschr	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = 100,0000' / in.	CHECKED - _____	REVISED - _____
PLOT DATE = 3/22/2021	DATE - _____	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: \_\_\_\_\_ SHEET \_\_\_\_ OF \_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	VARIOUS	20	4
			CONTRACT NO. 66L80	
			ILLINOIS FED. AID PROJECT	

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 OFFICE: DISTRICT 3  
 PLOT DATE: 3/22/2021

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				MCHD 100% MCHD	CONST MAIN 100% STATE	HTC BARRIER 100% STATE
				ROADWAY 0021	ROADWAY 0021	ROADWAY 0021
				RURAL 07M0	RURAL 07E0	RURAL 07A0
X0327307	REPAIR HIGH TENSION BARRIER TERMINAL	EACH	20	5		15
X6300215	RAIL ELEMENT PLATES	EACH	250	200	50	
X6300230	STEEL POSTS	EACH	300	200	100	
X6331101	TUBULAR THRIE BEAM	FOOT	50	25	25	
X6331105	STEEL POSTS, MODIFIED	EACH	5	2	3	
X6331110	STEEL POSTS, SPECIAL	EACH	10	5	5	
X6432110	REPLACE IMPACT ATTENUATORS (NON-REDIRECTIVE), TEST LEVEL 3	EACH	60	50	10	
X6610200	HOT-MIX ASPHALT CURB REPAIR	FOOT	50	50		
X6640502	CHAIN LINK FENCE POST	EACH	15	10	5	
X7011834	TRAFFIC CONTROL AND PROTECTION, CALL OUT WORK	EACH	45	25	20	
X7011836	TRAFFIC CONTROL AND PROTECTION, FREEWAY/EXPRESSWAY, CALL OUT WORK	EACH	115	50	15	50
Z0008760	EMERGENCY WORK CALL OUT	EACH	110	50	10	50
Z0008761	EXPEDITED CALL OUT WORK	EACH	100	50		50
Z0012752	CONCRETE STRUCTURE REPAIR	CU FT	15	15		

\* DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 22

USER NAME = pletschr DESIGNED - _____ DRAWN - _____ PLOT SCALE = 100,0000' / in. CHECKED - _____ PLOT DATE = 3/22/2021 DATE - _____	REVISED - _____ REVISED - _____ REVISED - _____ REVISED - _____	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>	F.A.P. RTE. _____ SECTION * _____ COUNTY _____ TOTAL SHEETS 20 SHEET NO. 5 ILLINOIS FED. AID PROJECT
SCALE: _____ SHEET ____ OF ____ SHEETS STA. _____ TO STA. _____			CONTRACT NO. 66L80	



**HIGH TENSION CABLE BARRIER REPAIR SYSTEM SCHEDULE**

LOCATION	COUNTY	SYSTEM	SYSTEM TYPE	REPAIR HTC	REPAIR HTC BARRIER TERMINAL	REPLACE HTC END SECTION	HTC SYSTEM MAINTENANCE	REMOVE & REPLACE HTC POST	REMOVE & REPLACE HTC POST (HD)	FURNISH & DRIVE METAL SOCKET with POST	CONTACT	INFORMATION
IL 47, 6029+00 TO 6265+00	GRUNDY/KENDALL	TRINITY	DRIVEN ( HD )	1	2	3	4		6		SCOTT MYERS (817)437-9023	RICHARD FIGLEWICZ (847)638-4611
I-55, MP 227-233	GRUNDY	GIBRALTAR	DRIVEN	1	2	3	4	5			BEN DVORAK (815)288-2343	
I-55, MP 216-227	GRUNDY & LIVINGSTON	GIBRALTAR	DRIVEN	1	2	3	4	5			BEN DVORAK (815)288-2343	
I-55, MP 207-210.5	GRUNDY	GIBRALTAR	DRIVEN	1	2	3	4	5			BEN DVORAK (815)288-2343	
I-55, JUST INSIDE WILL CO		GIBRALTAR	DRIVEN	1	2	3	4	5			BEN DVORAK (815)288-2343	
I-57, MP 322-324	KANKAKEE	GIBRALTAR	DRIVEN	1	2	3	4	5			BEN DVORAK (815)288-2343	
I-57, MP 306.1-310.1	KANKAKEE	TRINITY	DRIVEN ( HD )	1	2	3	4		6		SCOTT MYERS (817)437-9023	RICHARD FIGLEWICZ (847)638-4611
I-57, MP 293-302.5	IROQUOIS/KANKAKEE	GIBRALTAR	DRIVEN	1	2	3	4	5			BEN DVORAK (815)288-2343	
I-57, MP 290.5-293	IROQUOIS	TRINITY	DRIVEN ( HD )	1	2	3	4		6		SCOTT MYERS (817)437-9023	RICHARD FIGLEWICZ (847)638-4611
I-57, MP 285-290.5	IROQUOIS	TRINITY	DRIVEN ( HD )	1	2	3	4		6		SCOTT MYERS (817)437-9023	RICHARD FIGLEWICZ (847)638-4611
I-57, MP 277-279	IROQUOIS	NUCOR	DRIVEN	1	2	3	4	5				Jeremy Knerndchild (913)744-8054
I-80, MP 97-105	LASALLE & GRUNDY	TRINITY	DRIVEN ( HD )	1	2	3	4		6		SCOTT MYERS (817)437-9023	RICHARD FIGLEWICZ (847)638-4611
I-80, MP 92.5-97.1	LASALLE	TRINITY	DRIVEN ( HD )	1	2	3	4		6		SCOTT MYERS (817)437-9023	RICHARD FIGLEWICZ (847)638-4611
I-80, MP 80.5-92.5	LASALLE	TRINITY	DRIVEN ( HD )	1	2	3	4		6		SCOTT MYERS (817)437-9023	RICHARD FIGLEWICZ (847)638-4611
I-80, MP 74.3-80.2	LASALLE	GIBRALTAR	DRIVEN	1	2	3	4	5			BEN DVORAK (815)288-2343	
I-80, MP 64-70.1	BUREAU	GIBRALTAR	DRIVEN	1	2	3	4	5			BEN DVORAK (815)288-2343	
I-80, MP 41.5-48.1	BUREAU	GIBRALTAR	DRIVEN	1	2	3	4	5			BEN DVORAK (815)288-2343	

TABLE SHOWS EACH SYSTEM AND IT'S CORRESPONDING PAY ITEMS

REPAIR PAY ITEMS

- 1 = REPAIR HIGH TENSION CABLE
- 2 = REPAIR HIGH TENSION BARRIER TERMINAL
- 3 = REPLACE HIGH TENSION CABLE END SECTION
- 4 = HIGH TENSION CABLE SYSTEM MAINTENANCE
- 5 = REMOVE AND REPLACE HIGH TENSION CABLE POST
- 6 = REMOVE AND REPLACE HIGH TENSION CABLE POST (HEAVY DUTY)
- 7 = FURNISH AND DRIVE METAL SOCKET WITH POST

MODEL: Default  
FILE NAME: p:\pub\harronm.dwg  
PROJECT: ILLINOIS STATE HIGHWAY DAMAGE REPAIR FY 22  
OFFICE: DISTRICT 3  
DATE: 3/26/2021

\* DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 22

USER NAME = pletschr	DESIGNED - _____	REVISED - _____	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>HIGH TENSION CABLE LOCATIONS</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 100,0000' / in.	CHECKED - _____	REVISED - _____					VAR.	*	VARIOUS	20	7
PLOT DATE = 3/26/2021	DATE - _____	REVISED - _____		SCALE: _____	SHEET _____ OF _____ SHEETS	STA. _____ TO STA. _____	CONTRACT NO. 66L80		ILLINOIS	FED. AID PROJECT	

TRINITY CABLE TENSIONS		
TEMPERATURE	PRE-STRETCHED CABLE TENSION	STANDARD CABLE TENSION
°F	LBS	LBS
-15	7500	8800
-10	7300	8600
-5	7100	8400
0	7000	8200
5	6800	8000
10	6600	7800
15	6500	7600
20	6300	7400
25	6100	7200
30	6000	7000
35	5800	6800
40	5600	6600
45	5500	6400
50	5300	6200
55	5100	6000
60	5000	5800
65	4800	5600
70	4600	5400
75	4500	5200
80	4300	5000
85	4100	4800
90	4000	4600
95	3800	4400
100	3600	4200
105	3500	4000
110	3300	3800

TOLERANCE: -200 TO +800 POUNDS

NUCOR CABLE TENSION		
CABLE TEMPERATURE	INITIAL TENSION	EXPECTED TENSION
°F	W/15%	
-30	13706	11918
-20	12979	11286
-10	12252	10654
0	11525	10022
10	10800	9391
20	10073	8759
30	9346	8127
40	8619	7495
50	7894	6864
60	7167	6232
70	6440	5600
80	6077	5284
90	5713	4968
100	5350	4652
110	4986	4336
120	4624	4021

TENSION CHECK REQUIREMENTS

CHECKING AND CORRECTING THE TENSION IN EACH CABLE SHALL BE PERFORMED EACH TIME A CABLE IS SPICED AND HTC SYSTEM MAINTENANCE IS SPECIFIED. THE RECOMMENDED TENSIONS FOR EACH SYSTEM ARE SHOWN IN THE CHARTS. 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 ALONG WITH WORK ORDER BILLINGS.

GIBRALTAR CABLE TENSIONS	
CABLE TEMPERATURE	CABLE TENSION
°F	LBS
-30	
-20	
-10	8000
0	7600
10	7200
20	6800
30	6400
40	6000
50	5600
60	5200
70	4800
80	4400
90	4000
100	3600
110	3200

BRIFEN CABLE TENSIONS	
ROPE TEMPERATURE	TENSION
F°	LBS
0	7300
8	7000
16	6700
24	6400
32	6100
40	5800
48	5500
56	5200
64	4800
72	4500
76	4400
80	4200
88	3900
96	3600
100	3500
104	3300
108	3200
112	3000



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: \_\_\_\_\_

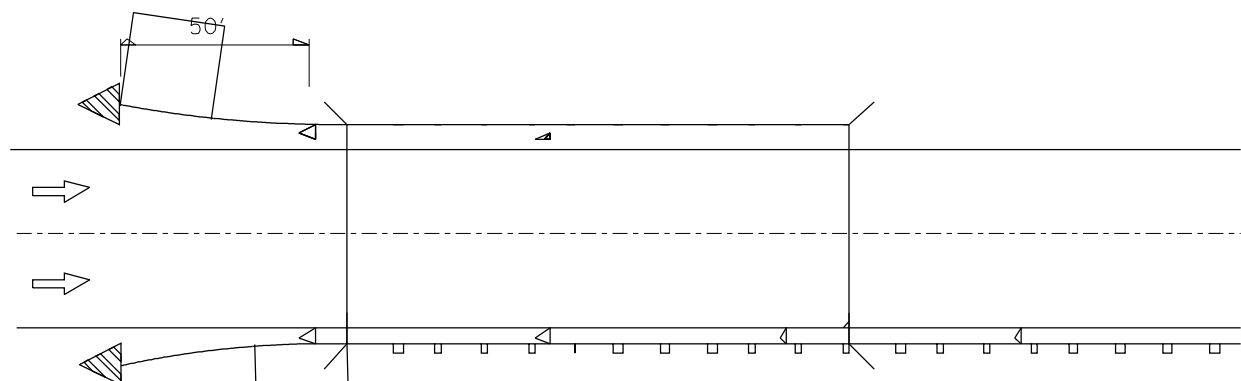
Printed Name & Signature of Tester: \_\_\_\_\_

Other Notes: \_\_\_\_\_

IDOT Inspector Initials (if Present): \_\_\_\_\_

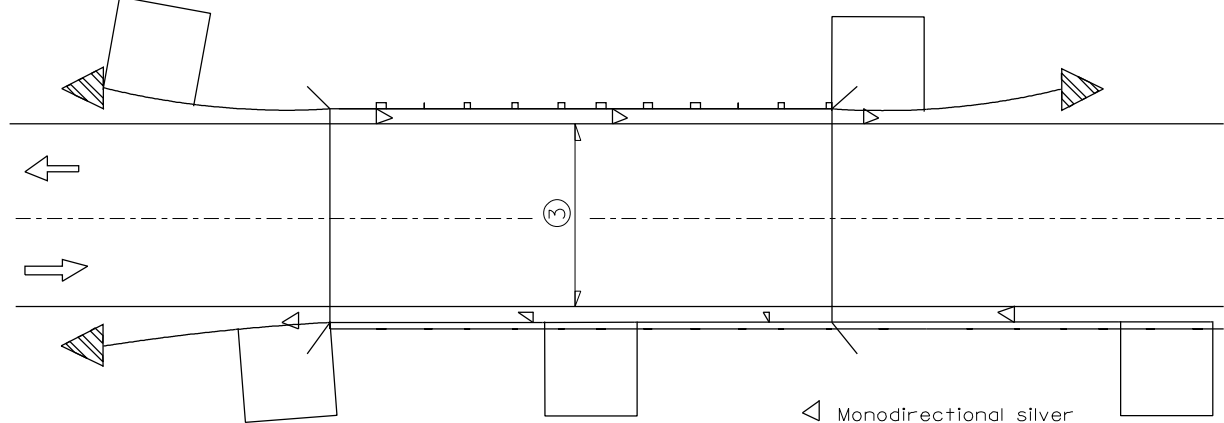
\* DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 22





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

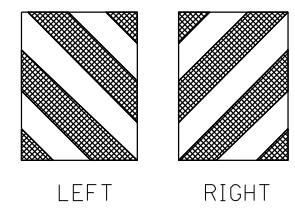
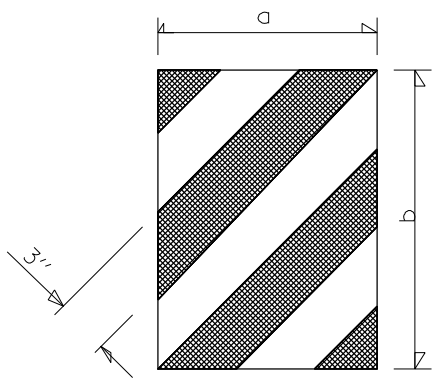
ONE-WAY TRAFFIC



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.

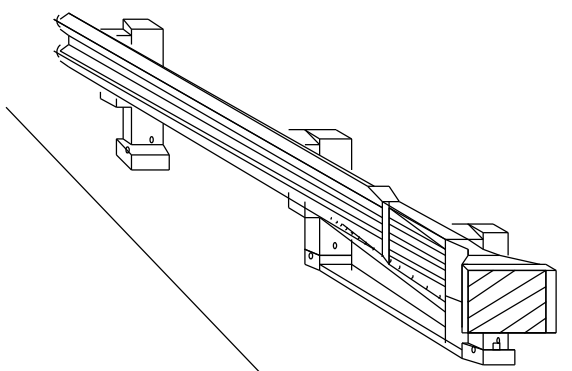
- ◁ Monodirectional silver
- ◁ Monodirectional amber
- ◁ Terminal Marker - Black/Yellow Left or Right as appropriate

TWO-WAY TRAFFIC



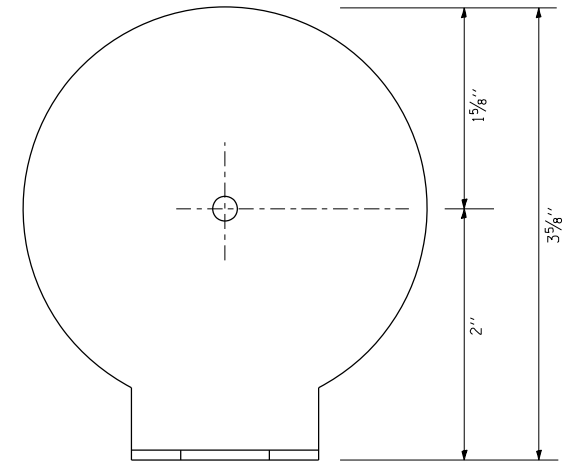
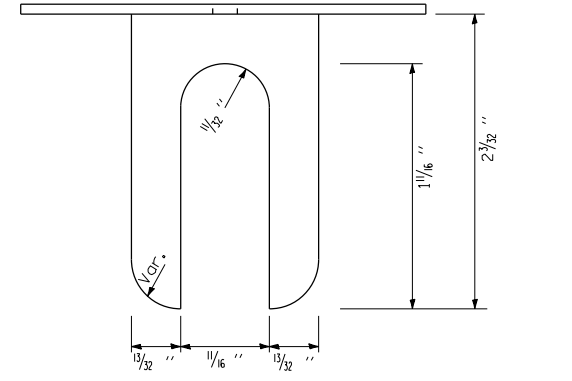
DIMENSION	CASE I	CASE II
a	*	450 (18)
b	*	406 (16)

\* 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 m<sup>2</sup> (288 sq. in.)

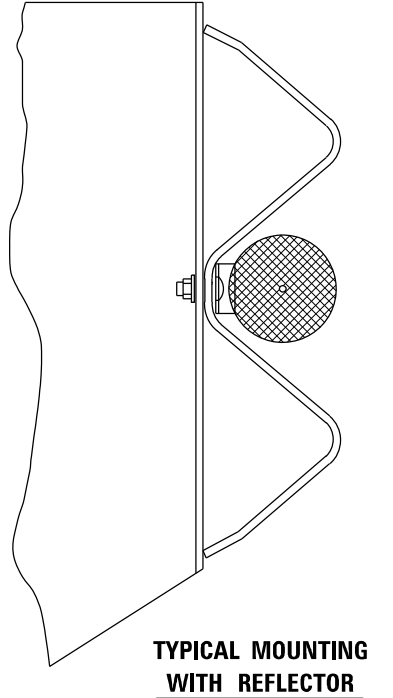


TERMINAL MARKER DETAILS  
Color: Black / Yellow reflectorized

REFLECTOR AND TERMINAL MARKER PLACEMENT

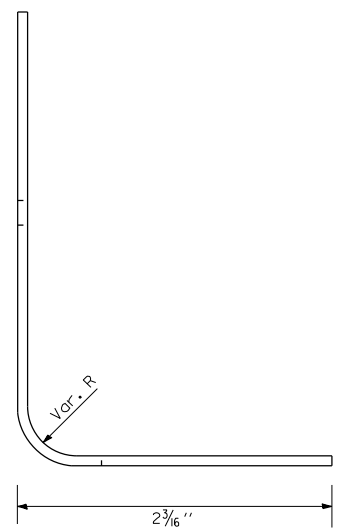


REFLECTOR MARKER TYPE A



TYPICAL MOUNTING WITH REFLECTOR

- NOTES:
- BRACKET IS TO BE FABRICATED FROM 12 GA. (MIN) STEEL GALVANIZED IN ACCORDANCE WITH AASHTO M III.
  - MIN. 3 REFLECTORS PER SIDE.
  - BRACKET "FOOT" SHALL BE PLACED BETWEEN THE BOLT HEAD AND THE PLATE WASHER (IF PRESENT).
  - ON THRIE BEAM RAIL, THE BRACKETS SHALL BE ATTACHED TO THE UPPER SPLICE BOLTS.
  - USE CRYSTAL COLOR, BI-DIRECTIONAL REFLECTORS USE AMBER (LEFT) AND CRYSTAL (RIGHT), MONODIRECTIONAL REFLECTORS ON INTERSTATES
  - ALL DIMENSIONS SHOWN ARE MINIMUM



REFLECTOR DETAIL

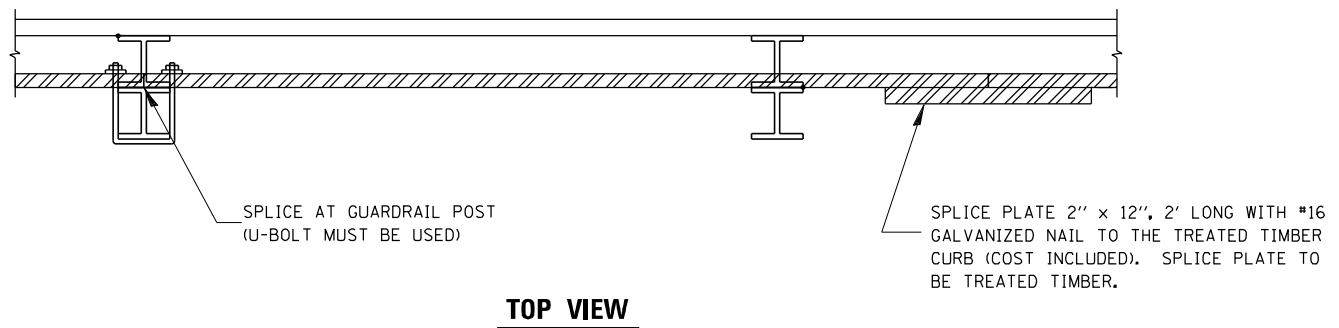
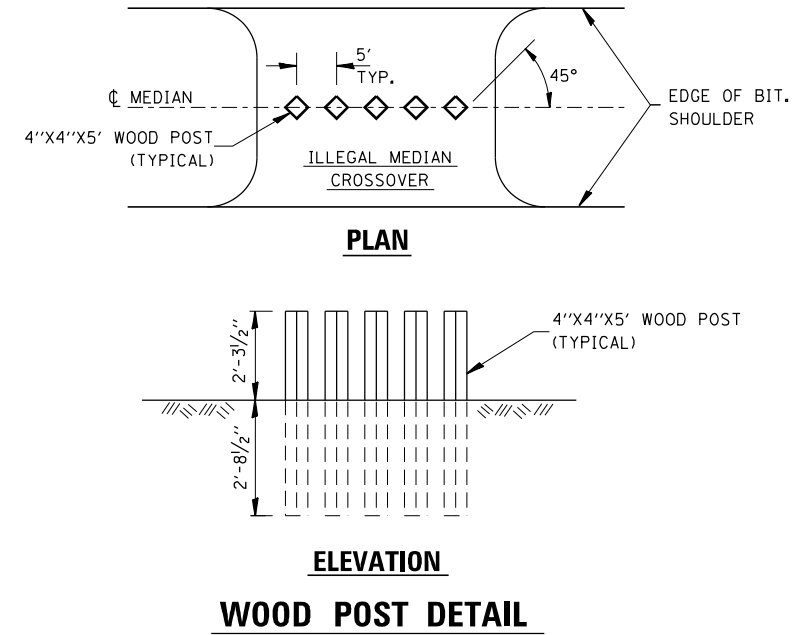
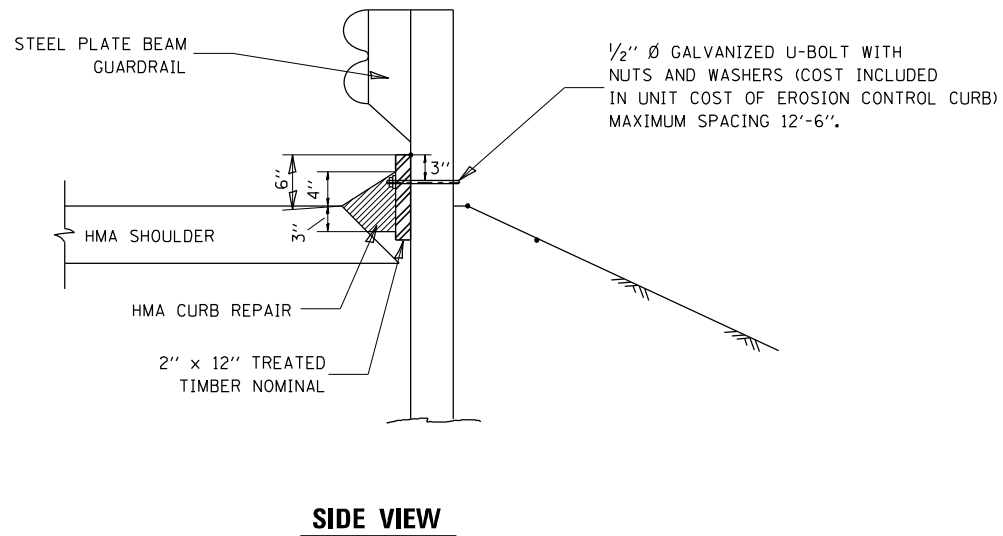
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Default	PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

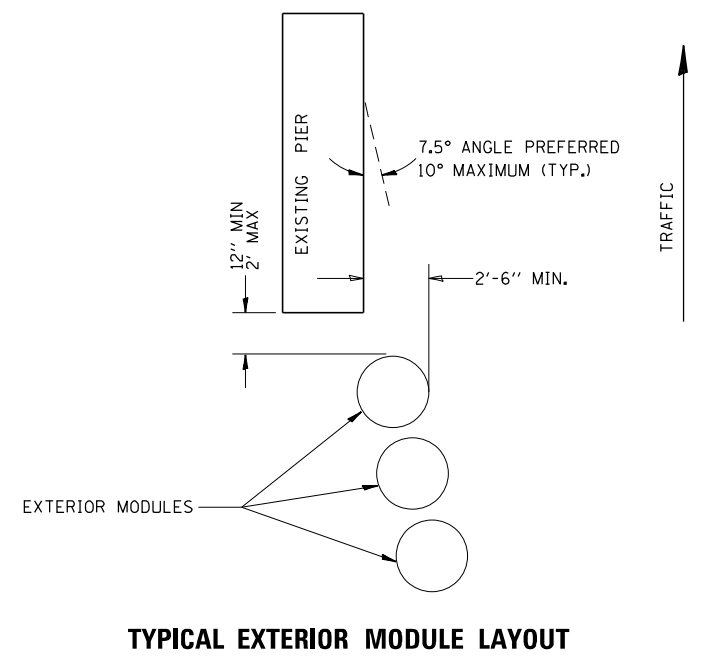
TERMINAL MARKER PLACEMENT AND REFLECTOR DETAIL  
SCALE: \_\_\_\_\_ SHEET \_ OF \_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

\* DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 22

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	VARIOUS	20	9
CONTRACT NO. 66L80				
ILLINOIS FED. AID PROJECT				



**IMPACT ATTENUATOR LAYOUT PLAN**



- 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 643001.
  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.

**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.

**TIMBER CURB & HMA CURB REPAIR**

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PLOT SCALE = 100,0000' / in.	CHECKED - _____	REVISED - _____
PLOT DATE = 3/22/2021	DATE - _____	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

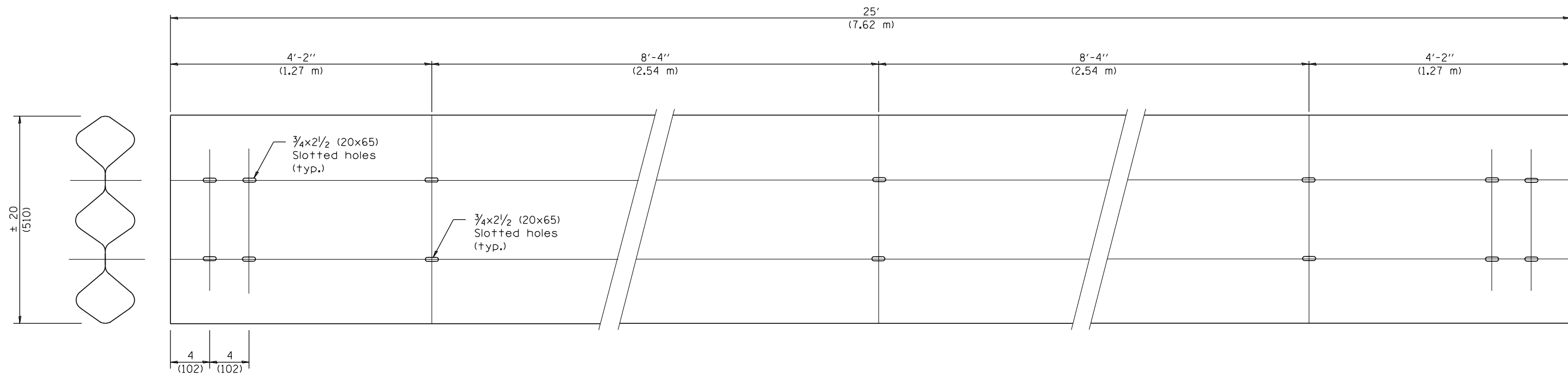
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\* DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 22

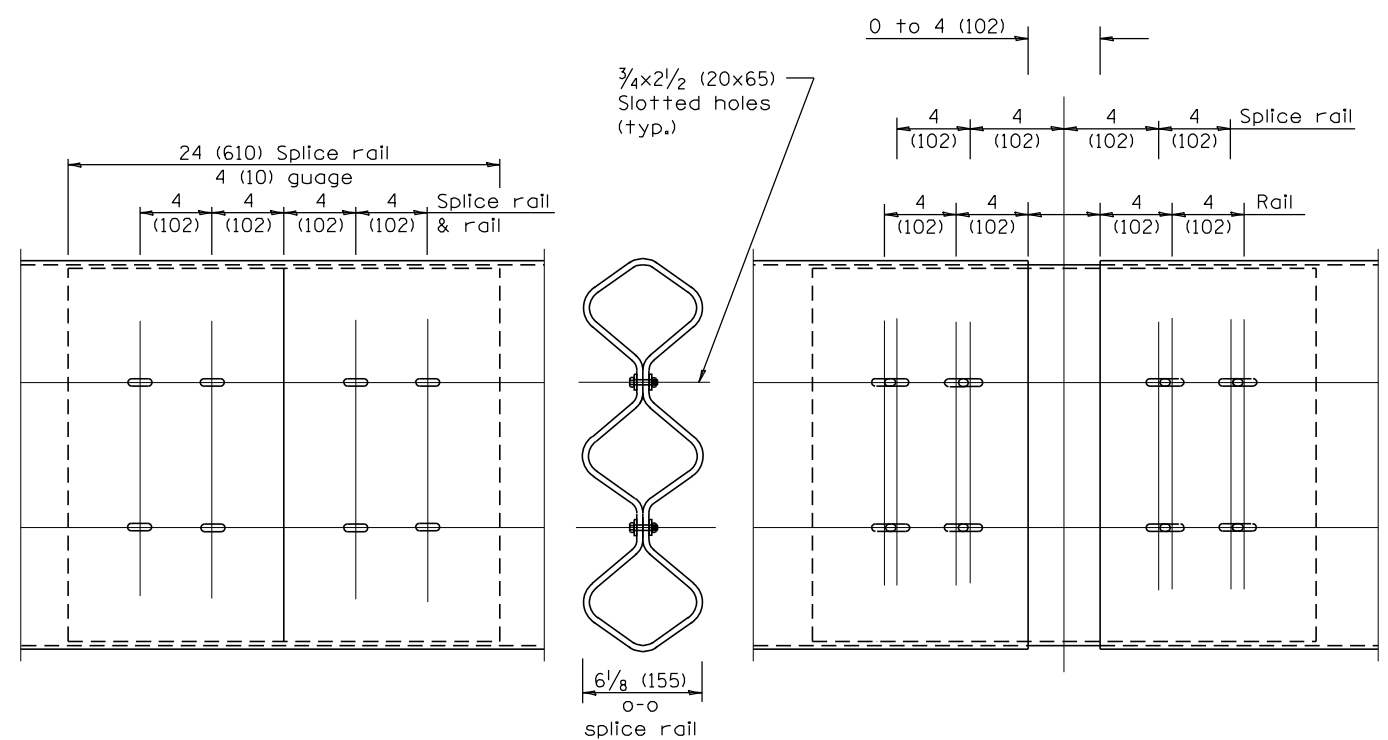
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	VARIOUS	20	10

CONTRACT NO. 66L80

ILLINOIS FED. AID PROJECT

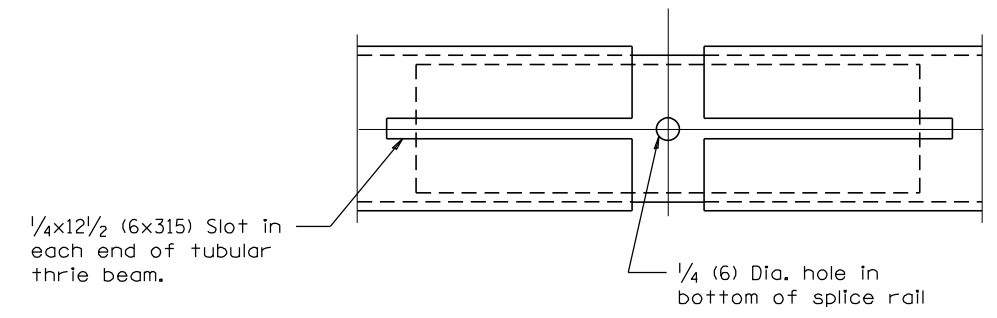


**TUBULAR THRIE BEAM FOR INTERNAL SPLICE JOINT**



**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 internal expansion splice joint.

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

See Standard 630001 for details of guardrail not shown.

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

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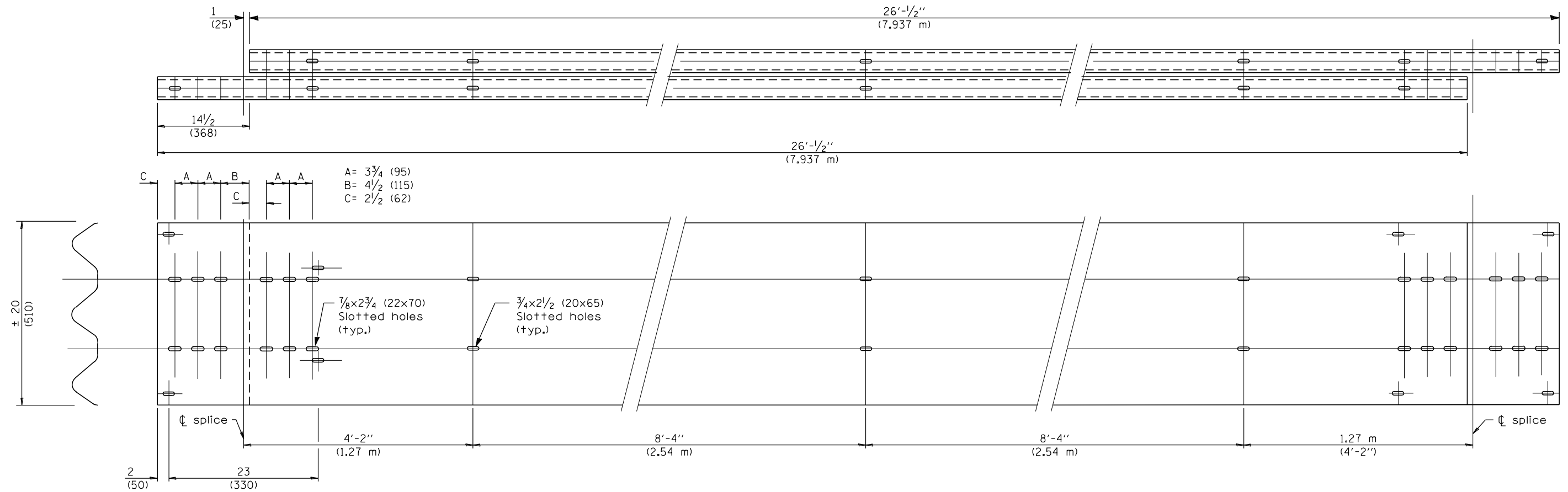
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PLOT DATE = 3/22/2021	DATE - _____	REVISIONS - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

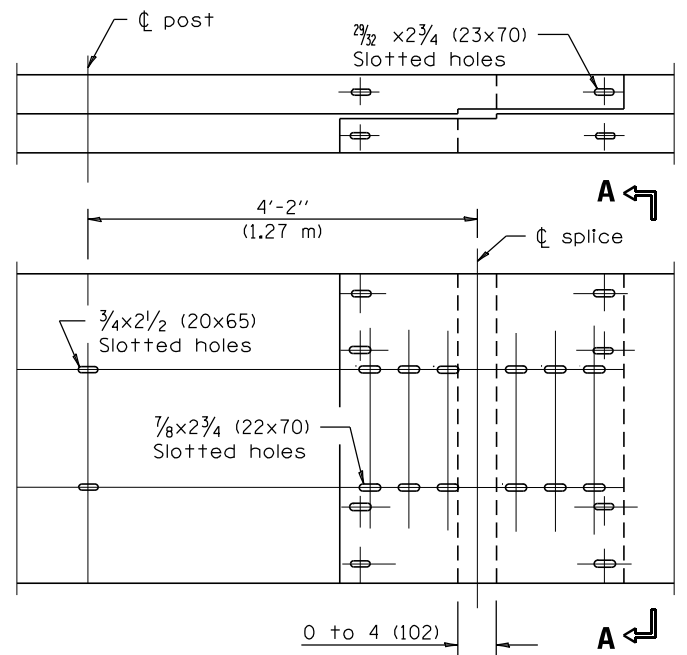
**TUBULAR THRIE BEAM  
RETROFIT RAIL FOR BRIDGES**

SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

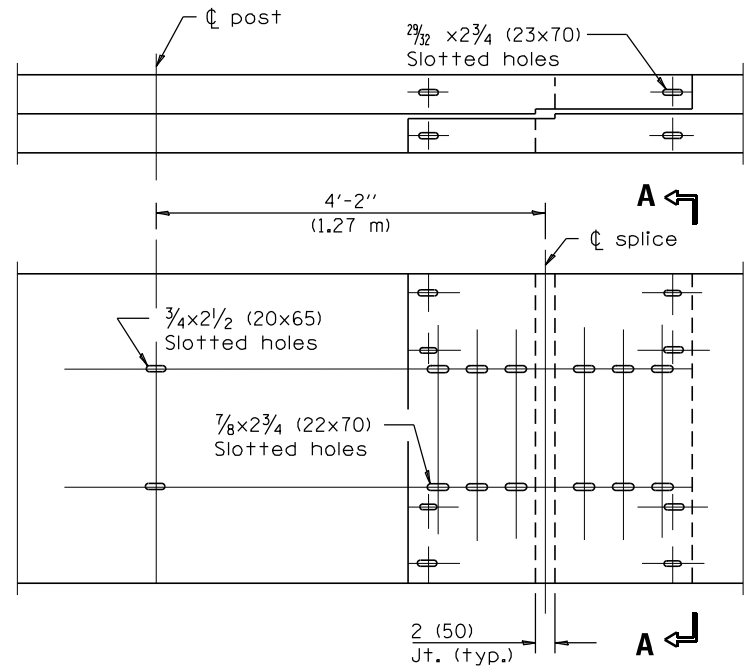
* DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 22				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	VARIOUS	20	11
			CONTRACT NO. 66L80	
ILLINOIS FED. AID PROJECT				



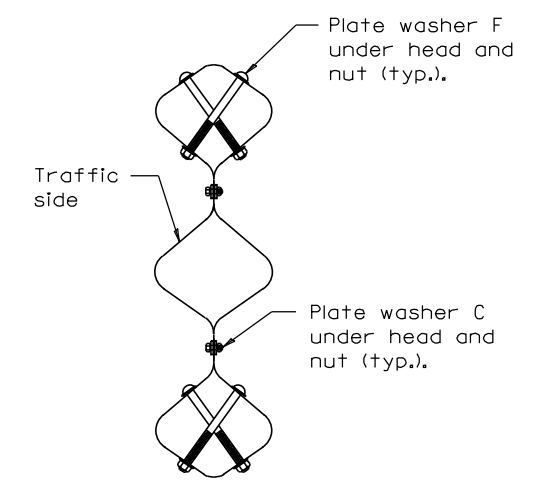
**TUBULAR THRIE BEAM FOR LAP SPLICE JOINT**



**LAP EXPANSION SPLICE JOINT**



**LAP SPLICE JOINT**



**SECTION A-A**

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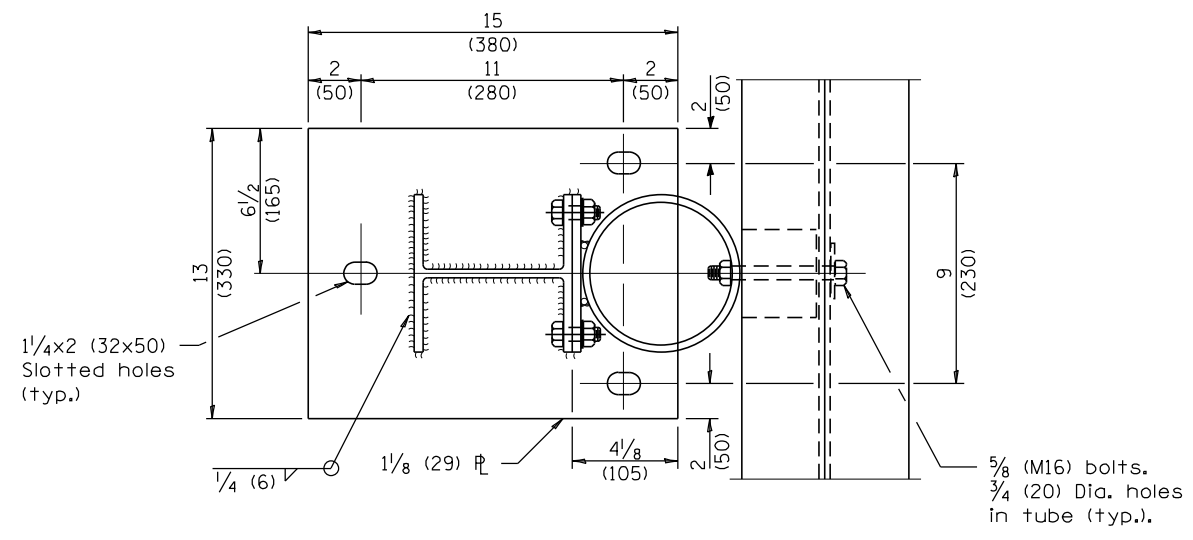
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DRAWN - _____	REVISIONS - _____	
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PLOT DATE = 3/22/2021	DATE - _____	REVISIONS - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

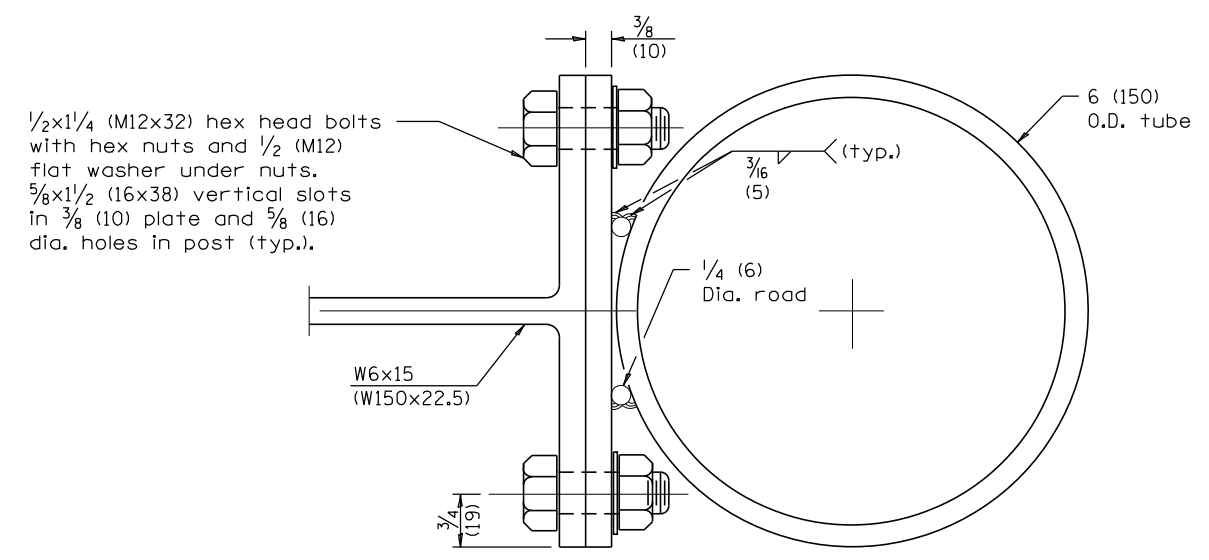
**TUBULAR THRIE BEAM  
RETROFIT RAIL FOR BRIDGES**

SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

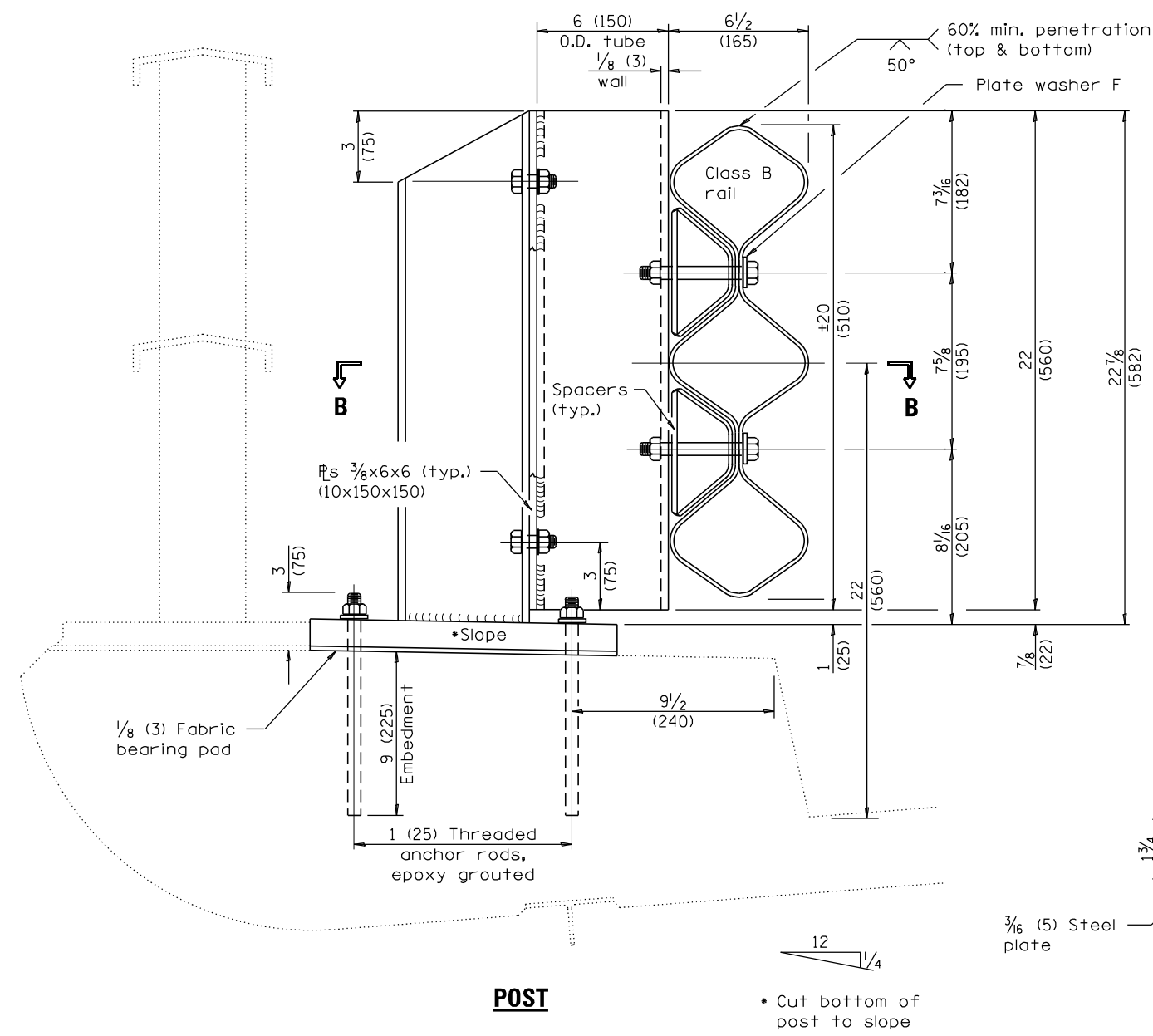
* DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 22				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	VARIOUS	20	12
			CONTRACT NO. 66L80	
ILLINOIS FED. AID PROJECT				



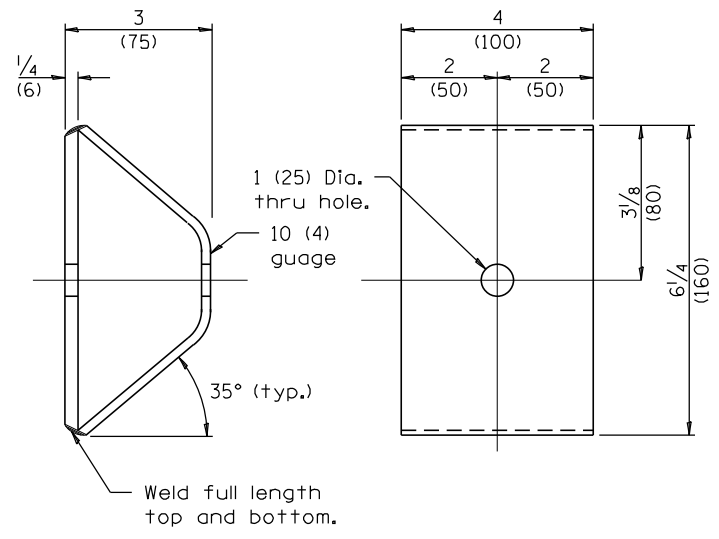
**SECTION B-B**



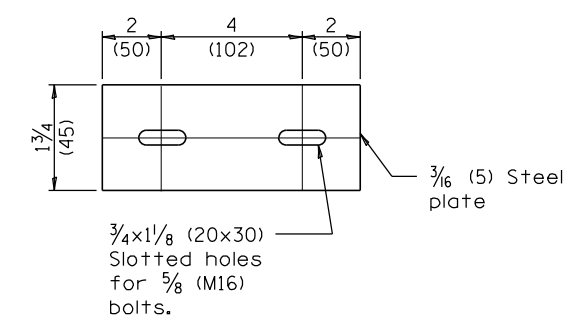
**TUBE TO POST ATTACHMENT**



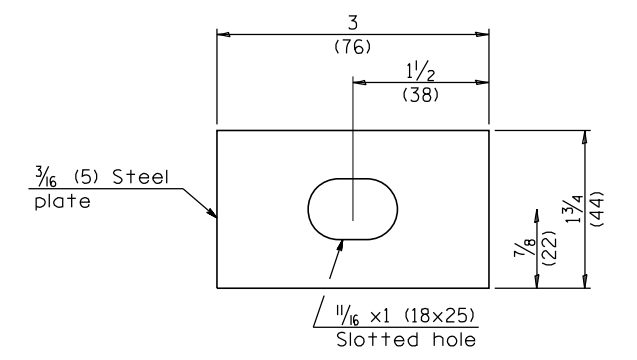
**POST**



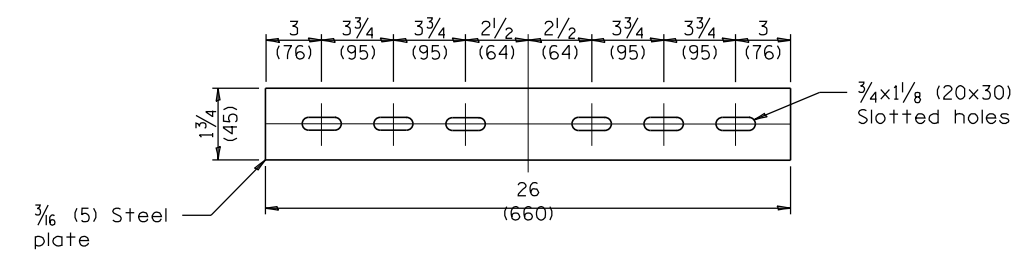
**SPACER**



**PLATE WASHER B**



**PLATE WASHER F**



**PLATE WASHER C**

\* Cut bottom of post to slope

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PLOT DATE = 3/22/2021	DATE - _____	REVISOR - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

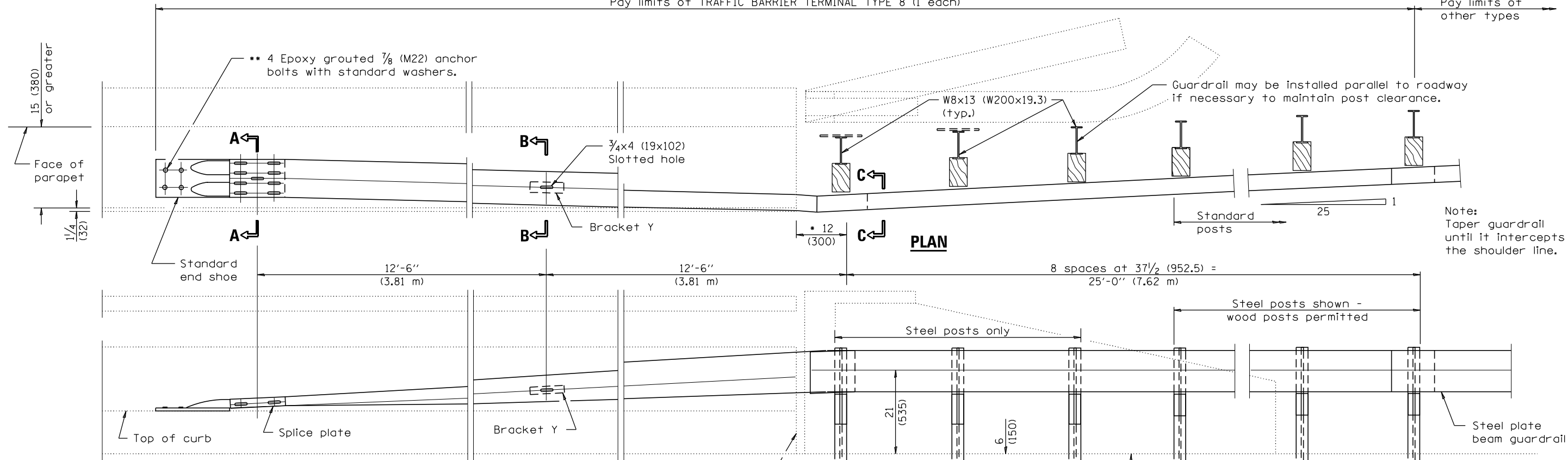
**TUBULAR THRIE BEAM  
RETROFIT RAIL FOR BRIDGES**

SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

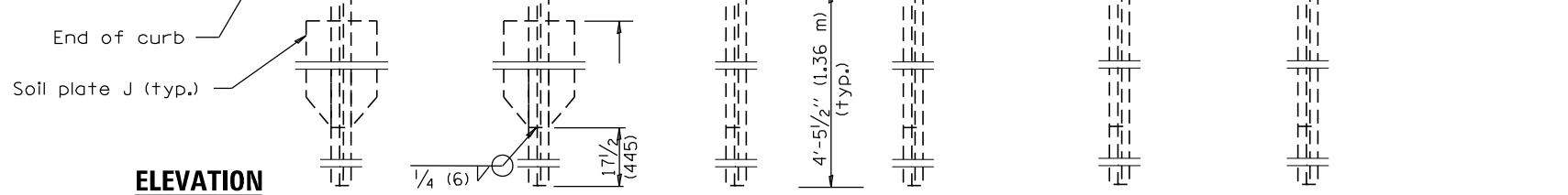
* DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 22			
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS
VAR.	*	VARIOUS	20
			SHEET NO. 13
			CONTRACT NO. 66L80
ILLINOIS FED. AID PROJECT			

Pay limits of TRAFFIC BARRIER TERMINAL TYPE 8 (1 each)

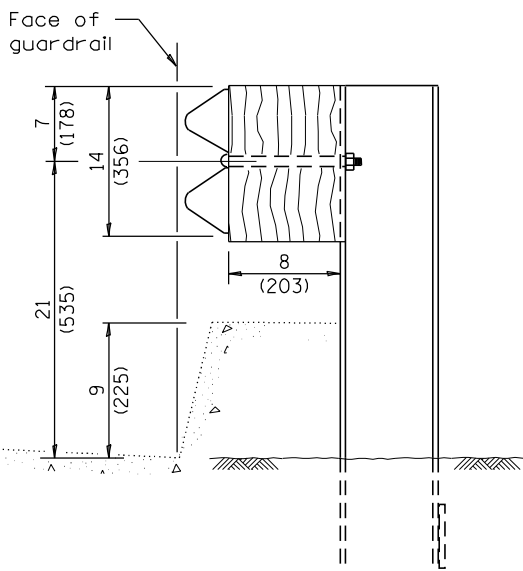
Pay limits of other types



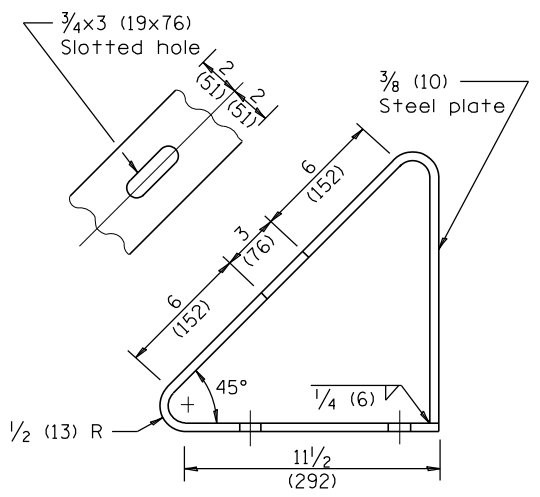
Note: Taper guardrail until it intercepts the shoulder line.



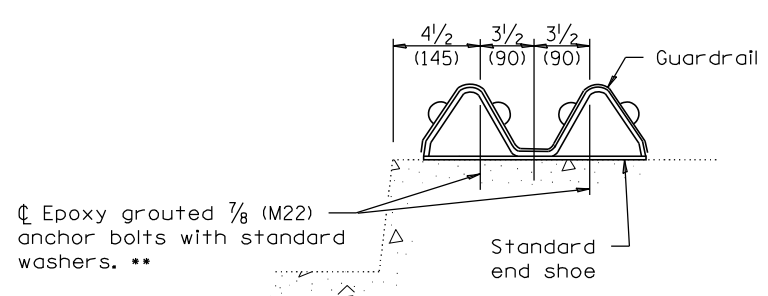
ELEVATION



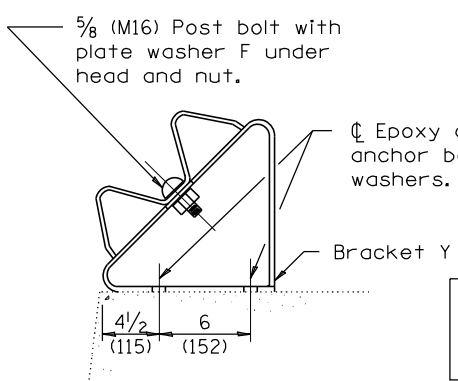
SECTION C-C



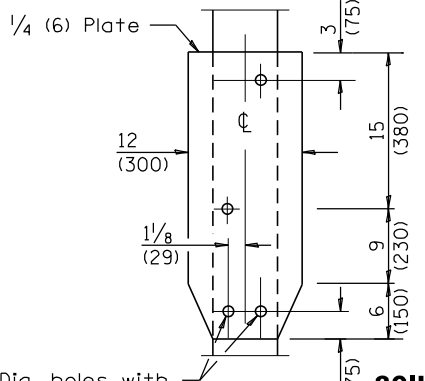
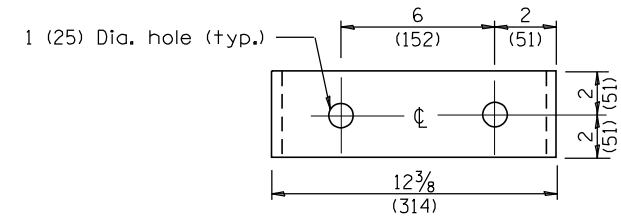
BRACKET Y



SECTION A-A



SECTION B-B



SOIL PLATE J & ALTERNATE CONNECTION DETAILS

**FOR INFORMATION ONLY**

**GENERAL NOTES**

- See Standard 630001 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.

\* DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 22

MODEL: Default  
FILE NAME: p:\illinois\dot\Documents\DOT - Office\Drawings\Projects\136680\CADD\DATA\136680-00-00-00-00-00.dwg  
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PLOT SCALE = 100,0000' / in.	DRAWN - _____	REVISED - _____
PLOT DATE = 3/22/2021	CHECKED - _____	REVISED - _____
	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. 66L80				
ILLINOIS FED. AID PROJECT				



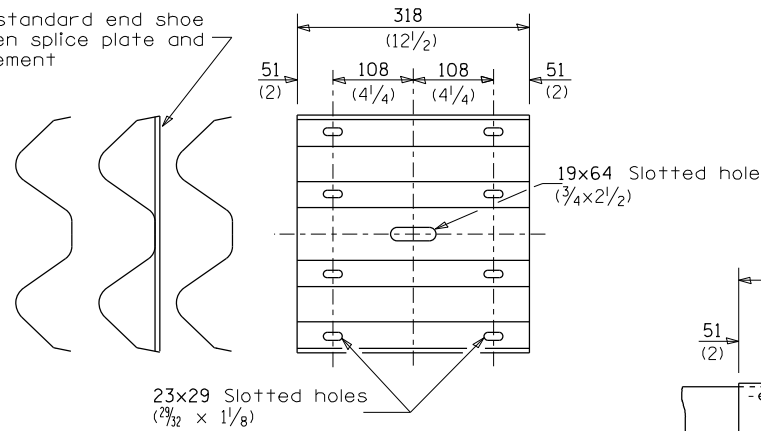




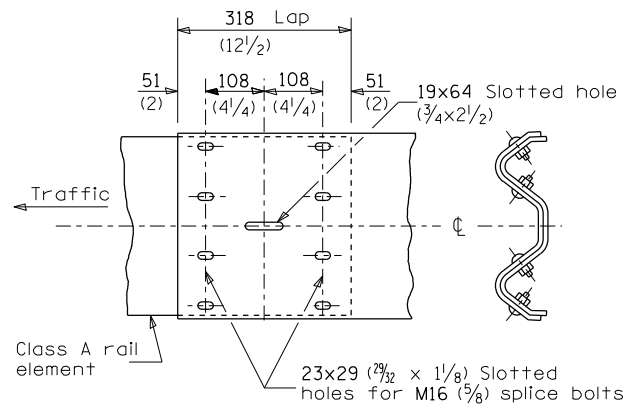




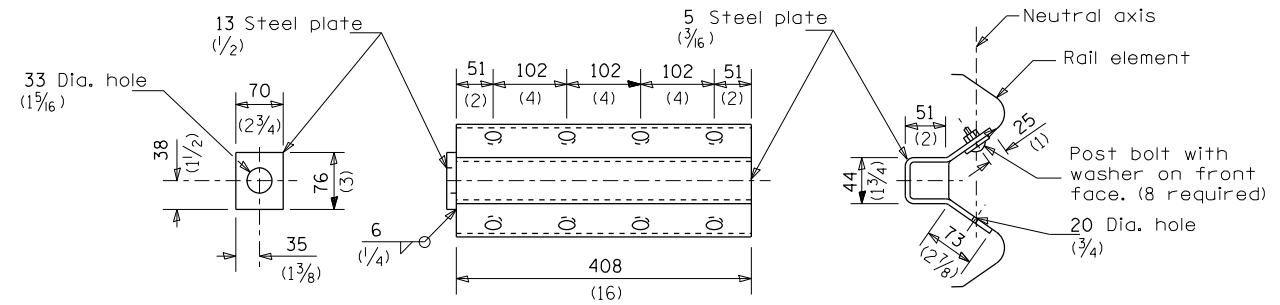
Place standard end shoe between splice plate and rail element



**SPLICE PLATE**

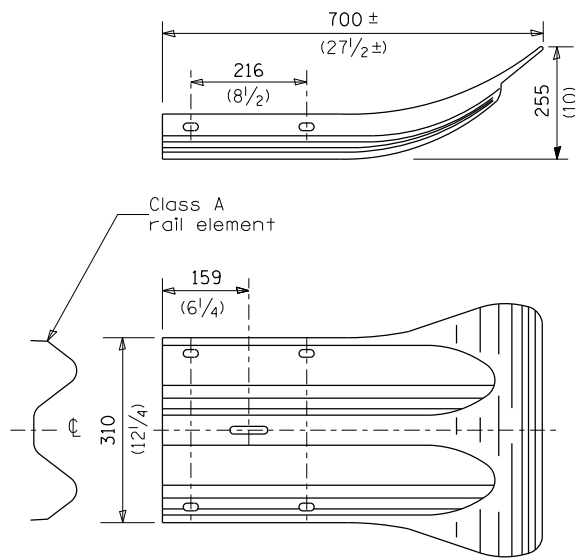


**RAIL ELEMENT SPLICE**

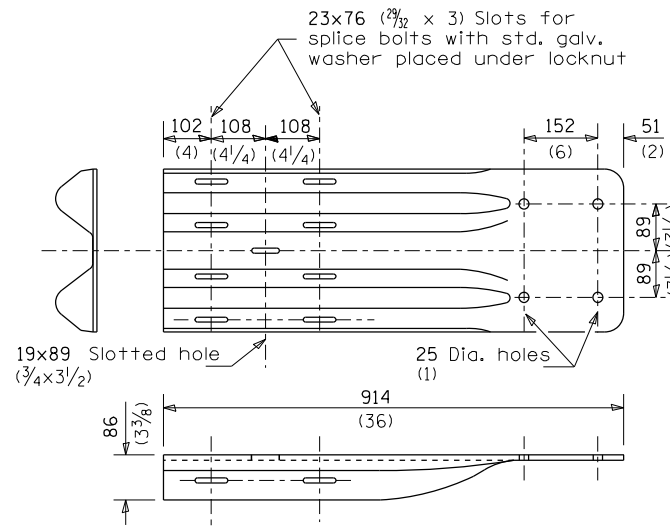


**NOTE**  
Anchor plate T shall be used to attach cable assembly to guardrail when required on traffic barrier terminals.

**ANCHOR PLATE T DETAILS**

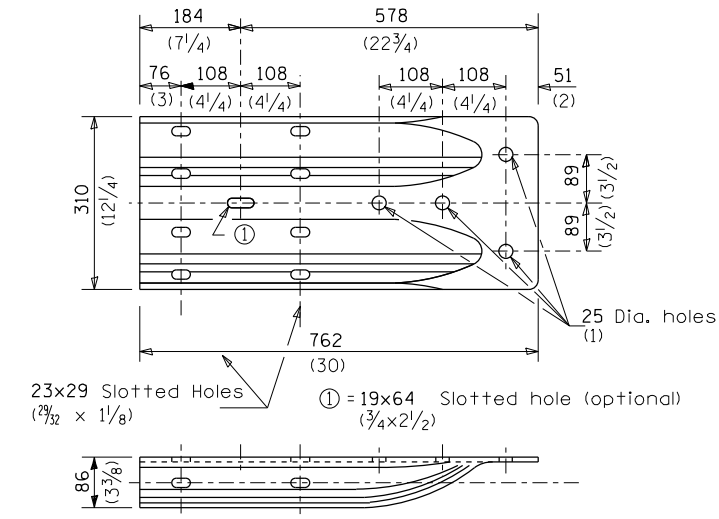


**END SECTION**



**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**

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PROJECT: 03661801\CADD\DATA\3661801-CH-DETAILS.dwg

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DRAWN - _____	REVISED - _____	REVISED - _____
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PLOT DATE = 3/22/2021	DATE - _____	REVISED - _____

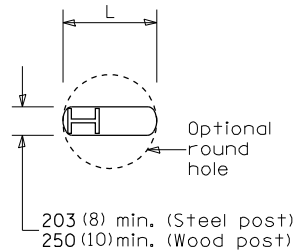
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

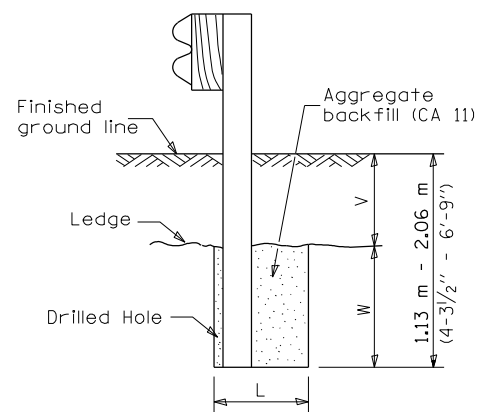
**\* DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 22**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	*	VARIOUS	20	19
			CONTRACT NO. 66L80	
			ILLINOIS FED. AID PROJECT	

SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_



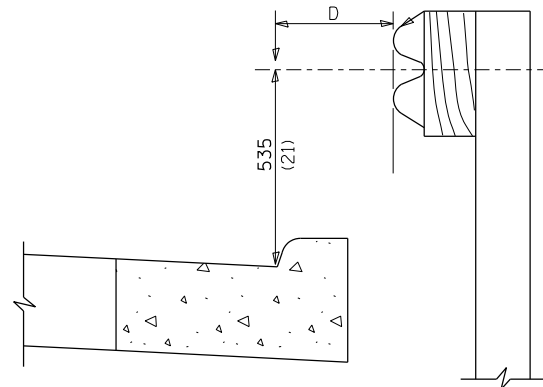
PLAN



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

ELEVATION

FOOTING FOR POST WHEN IMPERVIOUS MATERIAL IS ENCOUNTERED



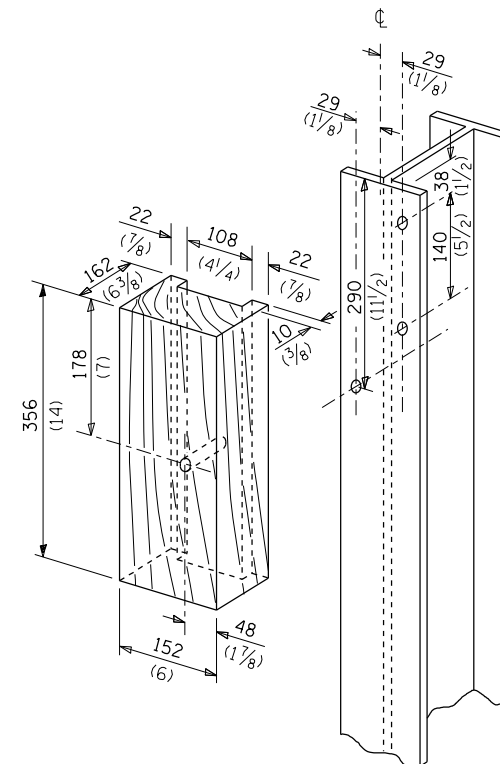
Note:

If it is necessary for D to be more than 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.

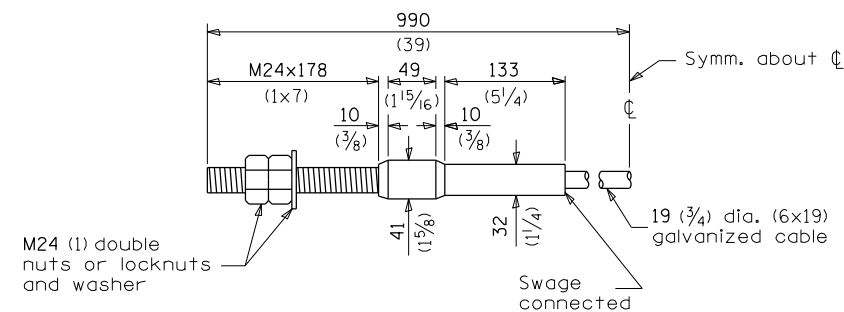
GUARDRAIL PLACED BEHIND CURB

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

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)



WOOD BLOCK-OUT AND STEEL POST DETAILS



CABLE ASSEMBLY

(18,100 kg (40,000 lbs.) min. breaking strength)  
Tighten to taut tension.

MODEL: Default  
FILE NAME: p:\pub\mroom.dwg  
PROJECT: 03066180\CADD\DATA\0366180\CAD\0366180-CH-DETAILS.dwg

USER NAME = pletschr	DESIGNED - _____	REVISED - _____
PLOT SCALE = 100,0000 ' / in.	DRAWN - _____	REVISED - _____
PLOT DATE = 3/22/2021	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

**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 22

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	*	VARIOUS	20	20
			CONTRACT NO. 66L80	
ILLINOIS FED. AID PROJECT				