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06-14-2019 LETTING ITEM 175

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- 7. HTC LOCATIONS
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- 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

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

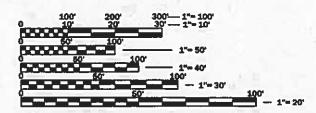
PROPOSED HIGHWAY PLANS

VARIOUS ROUTES
D3 HWY DAMAGE REPAIR FY 20
VARIOUS COUNTIES

C-93-030-19
REPAIRING MOTORIST CAUSED DAMAGE TO HIGHWAY FACILITIES

HIGHWAY STANDARDS

SEE PAGE 2 FOR LIST OF HIGHWAY STANDARDS



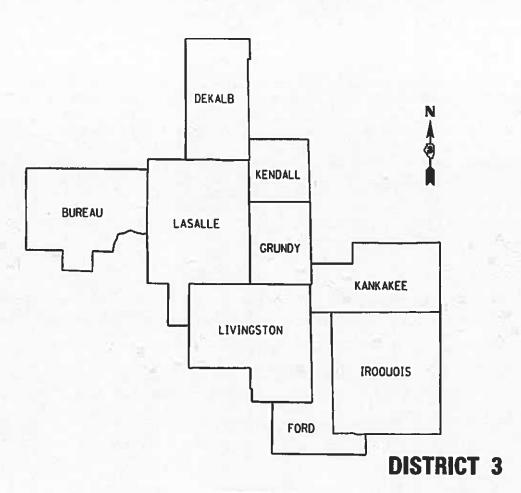
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-889-892-0123

OR 811

PROJECT ENGINEER: BRAD DUNCAN, PE UNIT CHIEF: DARCY CARPENTER DISTRICT 3 NO. (815) 434–6131 CONTRACT NO. 66J51



NOT TO SCALE

RTE. SECTION COUNTY SHEETS NO.

VAR. 8 VARIOUS 20 1

LINCUS CONTRACT NO. 66J51

D-93-010-19



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED

3-19-20-19
REGIONAL ENGINEER

ENGINEER OF DESIGN AND ENVIRONMENT

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 NON-BLOCKED STEEL PLATE BEAM GUARDRAIL 630006 630101-10 **GUARDRAIL MOUNTED ON EXISTING CULVERTS** 630106-02 LONG-SPAN GUARDRAIL OVER CULVERT 630111 WEAK POST GUARDRAIL ATTACHED TO CULVERT 630201-07 PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS 630301-09 TRAFFIC BARRIER TERMINAL, TYPE 1B 631006-08 TRAFFIC BARRIER TERMINAL, TYPE 2 631011-10 TRAFFIC BARRIER TERMINAL, TYPE 5 631026-06 TRAFFIC BARRIER TERMINAL, TYPE 6 631031-15 631032-09 TRAFFIC BARRIER TERMINAL, TYPE 6A 631033-07 TRAFFIC BARRIER TERMINAL, TYPE 6B 631046-04 TRAFFIC BARRIER TERMINAL, TYPE 10 643001-02 SAND MODULE IMPACT ATTENUATORS 664001-02 CHAIN LINK FENCE 665001-02 **WOVEN WIRE FENCE** OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' (4.5 m) AWAY 701001-02 OFF-ROAD OPERATIONS 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM 701006-05 PAVEMENT EDGE OFF-ROAD MOVING OPERATIONS 2L, 2W, DAY ONLY 701011-04 OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM 701101-05 PAVEMENT EDGE 701106-02 OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH . 701201-05 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS 701301-04 FOR SPEEDS ≥ 45 MPH 701400-09 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY LANE CLOSURE, FREEWAY/EXPRESSWAY 701401-12 LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY 701406-12 LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP 701411-09 FOR SPEEDS ≥ 45 MPH LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, 701421-08 FOR SPEEDS ≥ 45 MPH TO 55 MPH 701422-10 LANE CLOSURE, MULTILANE, FOR SPEEDS ≥ 45 MPH TO 55 MPH LANE CLOSURE, MULTILANE, WITH BARRIER, FOR SPEEDS ≥ 45 MPH TO 55 MPH 701423-10 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 TRAFFIC CONTROL, SETUP AND REMOVAL, FREEWAY/EXPRESSWAY 701428-01 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 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN 701601-09 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 SIDEWALK, CORNER OR CROSSWALK CLOSURE 701801-06 TRAFFIC CONTROL DEVICES 701901-08 **OBJECT AND TERMINAL MARKERS** 725001-01 782006 **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 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

SUPERVISING CONSTRUCTION FIELD ENGINEER

RESIDENT ENGINEER / TECHNICIAN

START & END DATES
OF CONSTRUCTION:

INSPECTORS:

SCALE:

SHEET

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

PREPARED BY:

DISTRICT STUDIES & PLANS ENGINEER

DATE:

TO STA

EXAMINED BY:

DISTRIPT CONSTRUCTION ENGINEER

DISTRICT MATERIAL ENGINEER

TRICT OPERATIONS ENGINEER

DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 20

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

OF _ SHEETS STA

 FAP. RTE.
 SECTION
 COUNTY
 TOTAL SHEETS
 NO.

 VAR.
 ♦
 VARIOUS
 20
 2

 CONTRACT NO. 66J51

				CON	3 IKUCI IUN C	
				MCHD	CONST MAIN	HTC BARRIER
				100% MCHD	100% STATE	100% STATE
				ROADWAY	ROADWAY	ROADWAY
CODE			TOTAL	0021	0021	0021
NO.	ITEM	UNIT	QUANTITY	RURAL 07M0		RURAL 07A0
NO.	TILM	ONTT	QUANTITI	NONAL OTHO	KOKAL 07E0	NONAL 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		
03100093	TRAFFIC BARRIER TERMINAL, TIPE 0	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		
		2,,(6)1	-			

* DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 20

FILE NAME =	USER NAME = pletschtr	DESIGNED	REVISED
pw:\\IL084EBIDINTEG.IIInols.gov:PWIDOT\Documents\\D	DT Offices\District 3\Projects\D366J51\CADData\D366J51-sht-co	veDRAWN	REVISED
	PLOT SCALE = 100.0000'/in.	CHECKED	REVISED
Default	PLOT DATE = 3/6/2019	DATE	REVISED

SUMMARY OF QUANTITIES					F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEE'	
SUMMARY OF QUANTITIES				VAR.	AR. *		VARIOUS	20	3	
								CONTRA	ACT NO.	66J51
OHEET	O.F.	OLIFETO	OT A	TO 0T4						

				CON	STRUCTION CO	JDE
				MCHD	CONST MAIN	HTC BARRIE
				100% MCHD	100% STATE	
				ROADWAY	ROADWAY	ROADWAY
CODE			TOTAL			
CODE			TOTAL	0021	0021	0021
NO.	ITEM	UNIT	QUANTITY	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
37000400	ENGINEER 3 TIELD OFFICE, THE A	CAE INC	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
		2,(0,1)				500

SCALE: _

* DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 20

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Default	PLOT DATE = 3/6/2019	DATE -	REVISED -

01				•	F.A.P. RTE	SECTION		COUNTY	TOTAL SHEETS	SHE
SUMMARY OF QUANTITIES				VAR.	₹. *		VARIOUS	20	4	
								CONTRA	ACT NO.	66J5
OLIFET	0.5	OHEETO	OT A	TO 0T4				•		

				2011	STRUCTION CO	
				MCHD	CONST MAIN	HTC BARRIER
				100% MCHD		100% STATE
				ROADWAY	ROADWAY	ROADWAY
CODE			TOTAL	0021	0021	0021
	ITCM					
NO.	ITEM	UNIT	QUANTITY	RURAL 07M0	RURAL 07E0	RURAL 07A0
X0327307	REPAIR HIGH TENSION BARRIER TERMINAL	EACH	11	10		1
X6300215	RAIL ELEMENT PLATES	EACH	250	200	50	
	Wite Economy Emes	E/(CIT	230	200	30	
X6300230	STEEL POSTS	EACH	300	200	100	
X6331101	TUBULAR THRIE BEAM	FOOT	50	25	25	
V6221105	CTEST DOCTS MODIFIED	FACU.			2	
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	90	50	10	30
70013753	CONCRETE STRUCTURE REPAIR	CULT	1 5	1.5		
Z0012752	CONCRETE STRUCTURE REPAIR	CU FT	15	15		
Z0020210	PULL POST ARRANGEMENT	EACH	20	10	10	
					1	1

SCALE: _

* DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 20

FILE NAME =	USER NAME = pletschtr	DESIGNED	REVISED				
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	PLOT SCALE = 100.0000'/in.	CHECKED	REVISED				
Default	PLOT DATE = 3/6/2019	DATE -	REVISED -				

OURANA DV OF OURANTITIES		F.A.P. RTE	SECTION			TOTAL SHEETS	SHEET NO.
SUMMARY OF QUANTITIES	VAR.	VAR. *		VARIOUS	20	5	
					CONTRA	CT NO.	66J51
QUEET OF QUEETO GTA	TO STA		11.11.010		OFF		

			MCHD	CONST MATM	HTC BARRIER
			100% MCHD	100% STATE	100% STATE
			ROADWAY	ROADWAY	ROADWAY
		TOTAL	0021	0021	0021
ITEM	UNIT	QUANTITY	RURAL 07M0	RURAL 07E0	RURAL 07A0
HIGH TENSION CABLE SYSTEM MAINTENANCE	EACH	750	325		425
FURNISH AND DRIVE METAL SOCKET WITH DOST	EACH	20	10		10
FUNNISH AND DAIVE METAL SOCKET WITH FUST	EACH	20	10		10
REPAIR TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL - RAIL ELEMENT PLATE	FOOT	25		25	
REPAIR TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	2	2		
	5.00				
REPAIR TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	2	2		
REPAIR TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	2	2		
REPAIR TRAFFIC BARRIER TERMINAL, TYPE 6B	EACH	2	2		
REPAIR TRAFFIC BARRIER TERMINAL, TYPE 8	EACH	2	2		
REPAIR TRAFFIC BARRIER TERMINAL TYPE 9	FACH	2	2		
	L/ACI1				
REPAIR TRAFFIC BARRIER TERMINAL, TYPE 12	EACH	2	2		
	HIGH TENSION CABLE SYSTEM MAINTENANCE FURNISH AND DRIVE METAL SOCKET WITH POST REPAIR TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL - RAIL ELEMENT PLATE REPAIR TRAFFIC BARRIER TERMINAL, TYPE 2 REPAIR TRAFFIC BARRIER TERMINAL, TYPE 6 REPAIR TRAFFIC BARRIER TERMINAL, TYPE 6A REPAIR TRAFFIC BARRIER TERMINAL, TYPE 6B REPAIR TRAFFIC BARRIER TERMINAL, TYPE 8 REPAIR TRAFFIC BARRIER TERMINAL, TYPE 9	HIGH TENSION CABLE SYSTEM MAINTENANCE EACH FURNISH AND DRIVE METAL SOCKET WITH POST REPAIR TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL - RAIL ELEMENT PLATE FOOT REPAIR TRAFFIC BARRIER TERMINAL, TYPE 2 EACH REPAIR TRAFFIC BARRIER TERMINAL, TYPE 6 EACH REPAIR TRAFFIC BARRIER TERMINAL, TYPE 6A EACH REPAIR TRAFFIC BARRIER TERMINAL, TYPE 6B EACH REPAIR TRAFFIC BARRIER TERMINAL, TYPE 8 EACH REPAIR TRAFFIC BARRIER TERMINAL, TYPE 9 EACH	ITEM UNIT QUANTITY HIGH TENSION CABLE SYSTEM MAINTENANCE EACH 750 FURNISH AND DRIVE METAL SOCKET WITH POST EACH 20 REPAIR TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL - RAIL ELEMENT PLATE FOOT 25 REPAIR TRAFFIC BARRIER TERMINAL, TYPE 2 EACH 2 REPAIR TRAFFIC BARRIER TERMINAL, TYPE 6 EACH 2 REPAIR TRAFFIC BARRIER TERMINAL, TYPE 6A EACH 2 REPAIR TRAFFIC BARRIER TERMINAL, TYPE 6B EACH 2 REPAIR TRAFFIC BARRIER TERMINAL, TYPE 8 EACH 2 REPAIR TRAFFIC BARRIER TERMINAL, TYPE 8 EACH 2 REPAIR TRAFFIC BARRIER TERMINAL, TYPE 9 EACH 2	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 68 ROADWAY 1	ROADWAY ROA

* DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 20

FILE NAME =	USER NAME = pletschtr	DESIGNED	REVISED	
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	PLOT SCALE = 100.0000'/in.	CHECKED	REVISED	DEPARTMENT OF TRANSPORTATION
Default	PLOT DATE = 3/6/2019	DATE	REVISED	

	SU	MMARY	OF QU	ANTITIES	
SCALE:	SHEET _	OF _	SHEETS	STA	TO STA.

	HIGH TENSION CABLE BARRIER REPAIR SYSTEM SCHEDULE											
				REPAIR	REPAIR HTC	REPLACE	HTC SYSTEM	REMOVE &	REMOVE &	FURNISH & DRIVE		
LOCATION	COUNTY	SYSTEM	SYSTEM TYPE	HTC	BARRIER	HTC	MAINTENANCE	REPLACE	REPLACE	METAL SOCKET	CONTACT	INFORMATION
					TERMINAL	END SECTION		HTC POST	HTC POST (HD)	with POST		
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	BRIFEN	SOCKETED	1	2	3	4	5		7	RICHARD BUTLER (904)707-2728	
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 Knerndchield (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

* DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 20

COUNTY TOTAL SHEET NO.

VARIOUS 20 7 USER NAME = pletschtr DESIGNED -REVISED -SECTION STATE OF ILLINOIS HIGH TENSION CABLE LOCATIONS DRAWN REVISED -VAR. **DEPARTMENT OF TRANSPORTATION** PLOT SCALE = 100.0000 ' / in. CHECKED -REVISED CONTRACT NO. 66J51 PLOT DATE = 3/6/2019 DATE REVISED SCALE: _ OF ___ SHEETS STA._ TO STA.

TRINITY CABLE TENSIONS						
	PRE-STRETCHED	STANDARD				
	CABLE	CABLE				
TEMPERATURE	TENSION	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
------------	---------------------

GIBRALTAR CABLE TENSIONS					
CABLE	CABLE				
TEMPERATURE	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				

NUCOR CABLE TENSION							
CABLE	INITIAL	EXPECTED					
TEMPERATURE	TENSION	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.

BRIFEN CABL	E 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

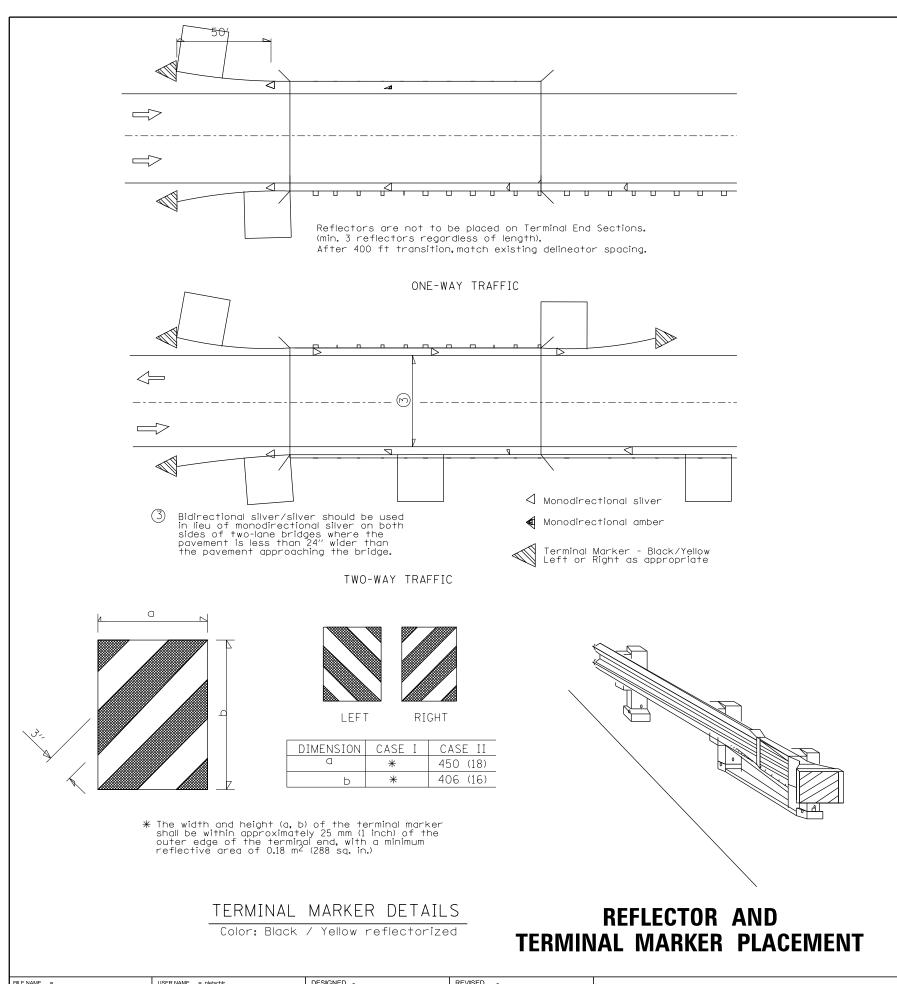
High Tension Cable Barrier

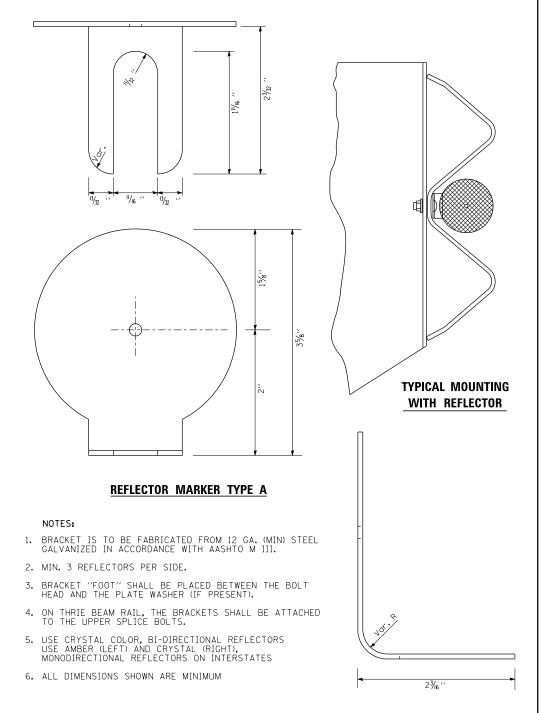
	System Brifen USHTCS (Nucor) Gilbraltar Trinity (CASS)		Date / Time: Contract / Work County: Route: Milepost/ GPS:	Order No.		
3 or 4	Cable System	Location 1 Actual Load kN/LB	Location 2 Actual Load kN/LB	Location 3 Actual Load kN/LB	Average Load (L1+L2+L3/3) kN/LB	Design Load kN/LB (see charts)
T	op Cable					
	Cable 2					
Cable 3	(If Applicable)					
	ttom Cable					
meter at least 4" l	should be taken at 3 sepa between readings. The a s made to the cable:				э.	
Were tensioning a	adjustments made to the	cable:				
Is 1" (minimum) o	f thread exposed in all tur	nbuckle windows	3 :			
Splice Type & Loc	cation (s):					
Testing Equipment Used:						
Printed Name & S	Signature of Tester:					
Other Notes:						

IDOT Inspector Initials (if Present):

* DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 20

FILE NAME =	USER NAME = pletschtr	DESIGNED	REVISED				SECTION	COUNTY	TOTAL	SHEE	,Ŧ
pw:\\IL084EBIDINTEG.IIInols.gov:PWIDOT\Documents\ID	DT Offices\District 3\Projects\D366J51\CADData\D3xxxxx-sht-d	etalBJRM/WN =	REVISED	STATE OF ILLINOIS	HTC CABLE TENSION CHARTS AND LOGS	VAR	*	VARIOUS	20	8	_
	PLOT SCALE = 100.0000 '/in.	CHECKED	REVISED	DEPARTMENT OF TRANSPORTATION		******		CONTRA	ACT NO	. 66J51	ī
Default	PLOT DATE = 2/19/2019	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.		ILLINOIS FE	D. AID PROJECT			_





REFLECTOR DETAIL

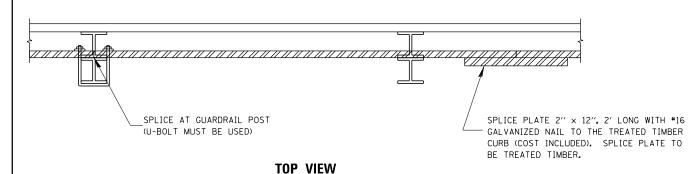
* DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 20

TILL TOTAL	OOLIT II PROBLEM	DEGIGINED -	INL VIOLD -
pw:\\IL084EBIDINTEG.IIInols.gov:PWIDOT\Documents\ID	DT Offices\District 3\Projects\D366J51\CADData\D3xxxxx.sht-de	tal BRA WN	REVISED
	PLOT SCALE = 100.0000'/in.	CHECKED	REVISED
Default	PLOT DATE = 2/19/2019	DATE	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TERMINAL	. MARKEF	RPLACE	EMENT	AND R	EFLECTOR DETAIL
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F.A.P. RTE	SEC ⁻	TION		COUNTY	TOTAL SHEETS	SHE
VAR.	*	;		VARIOUS	20	9
				CONTRA	CT NO.	66J
		ILLINOIS	FED. A	D PROJECT		



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.

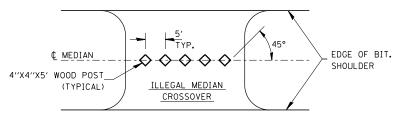
THE PRICE FOR EROSION CONTROL CURB SHALL INCLUDE THE U-BOLTS ATTACHING THE TREATED TIMBER TO THE GUARDRAIL POSTS, TREATED TIMBER, AND THE NECESSARY GRADING TO COMPLETE THIS WORK.

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

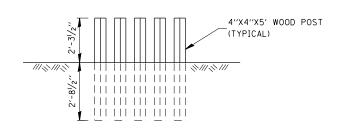
SIDE VIEW

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

TIMBER CURB & HMA CURB REPAIR

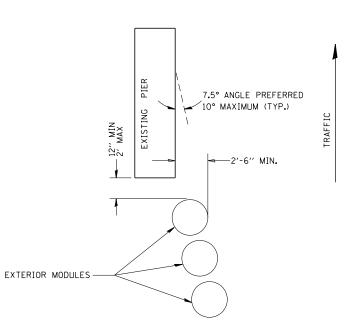


PLAN



ELEVATION WOOD POST DETAIL

IMPACT ATTENUATOR LAYOUT PLAN



TYPICAL EXTERIOR MODULE LAYOUT

NOTES:

- THE PAY ITEM "REPLACE IMPACT ATTENUATORS, (NON-REDIRECTIVE), TEST LEVEL 3" HAS BEEN INCLUDED TO REPLACE INDIVIDUAL DAMAGED SAND MODULES.
- REPLACEMENT MODULES SHALL MATCH THE KIND OF MODULES THAT ARE REMAINING.
- 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.

* DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 20

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

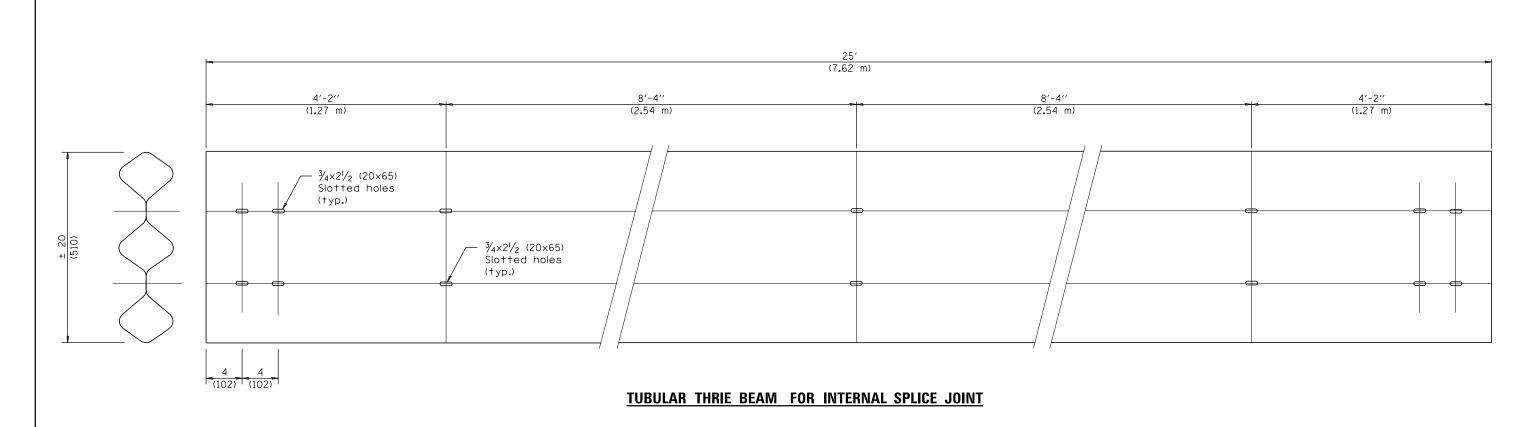
TIMBER CURB & BITUMINOUS CURB REPAIR
& GUARD POST DETAIL & IMPACT ATTENUATOR PLAN

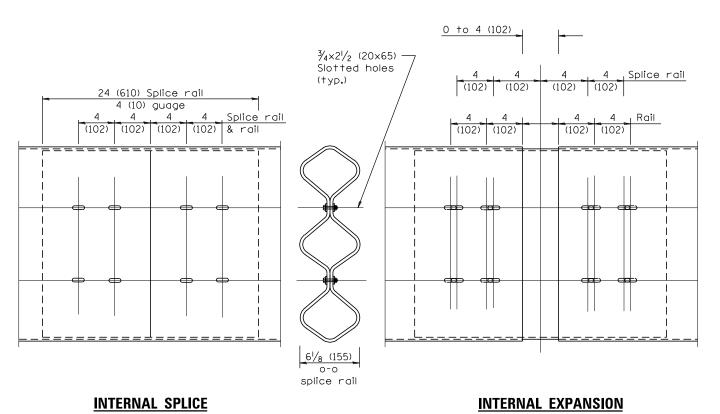
| SHEET OF SHEETS STA. TO STA.

F.A.P. SECTION COUNTY TOTAL SHEE SHEETS NO.

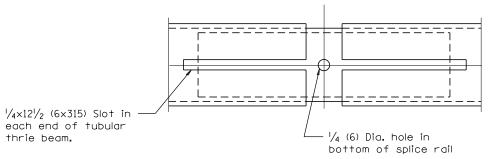
VAR. * VARIOUS 20 10

CONTRACT NO. 66J51





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.

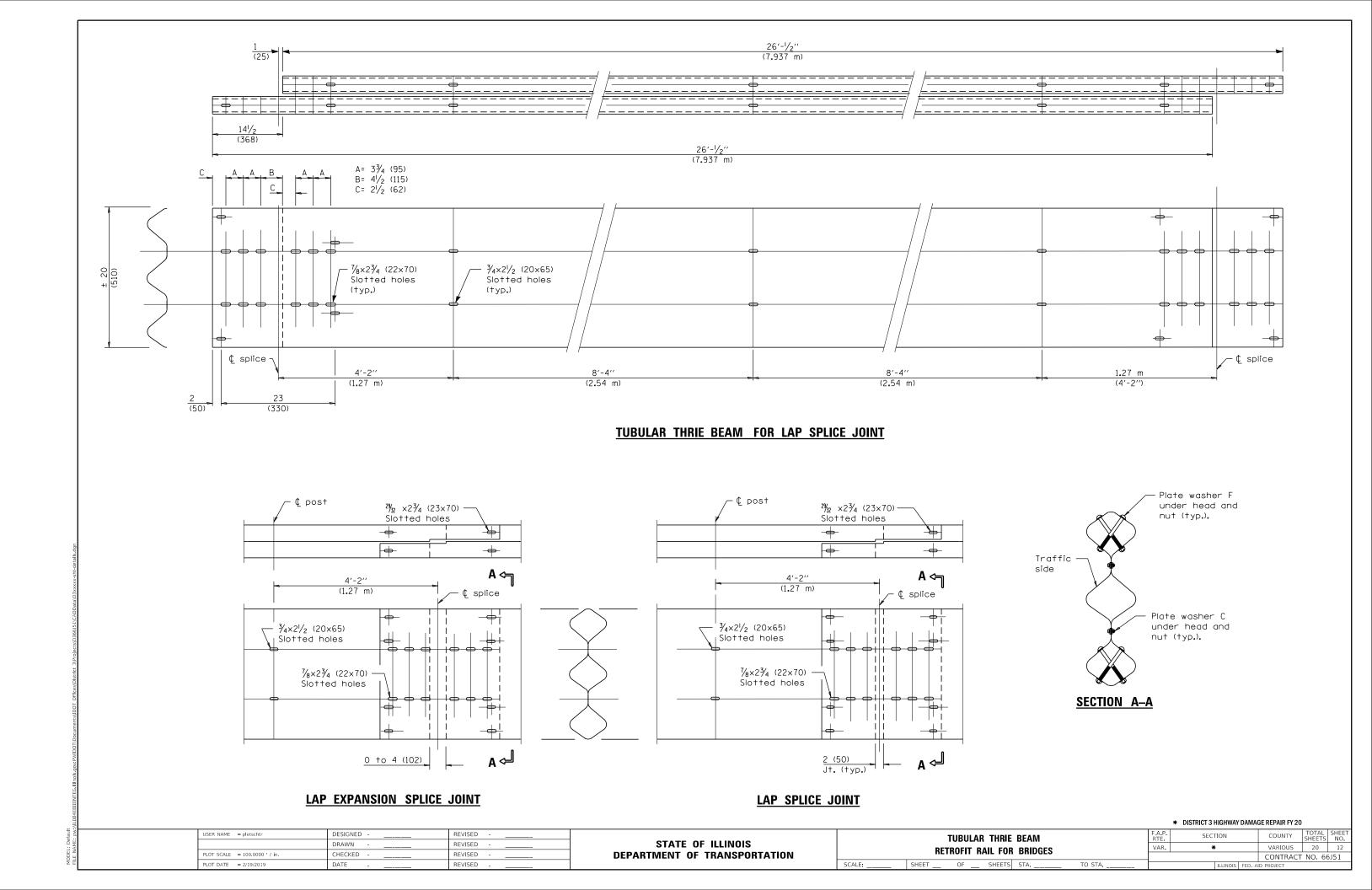
All dimensions are in inches (millimeters) unless otherwise shown.

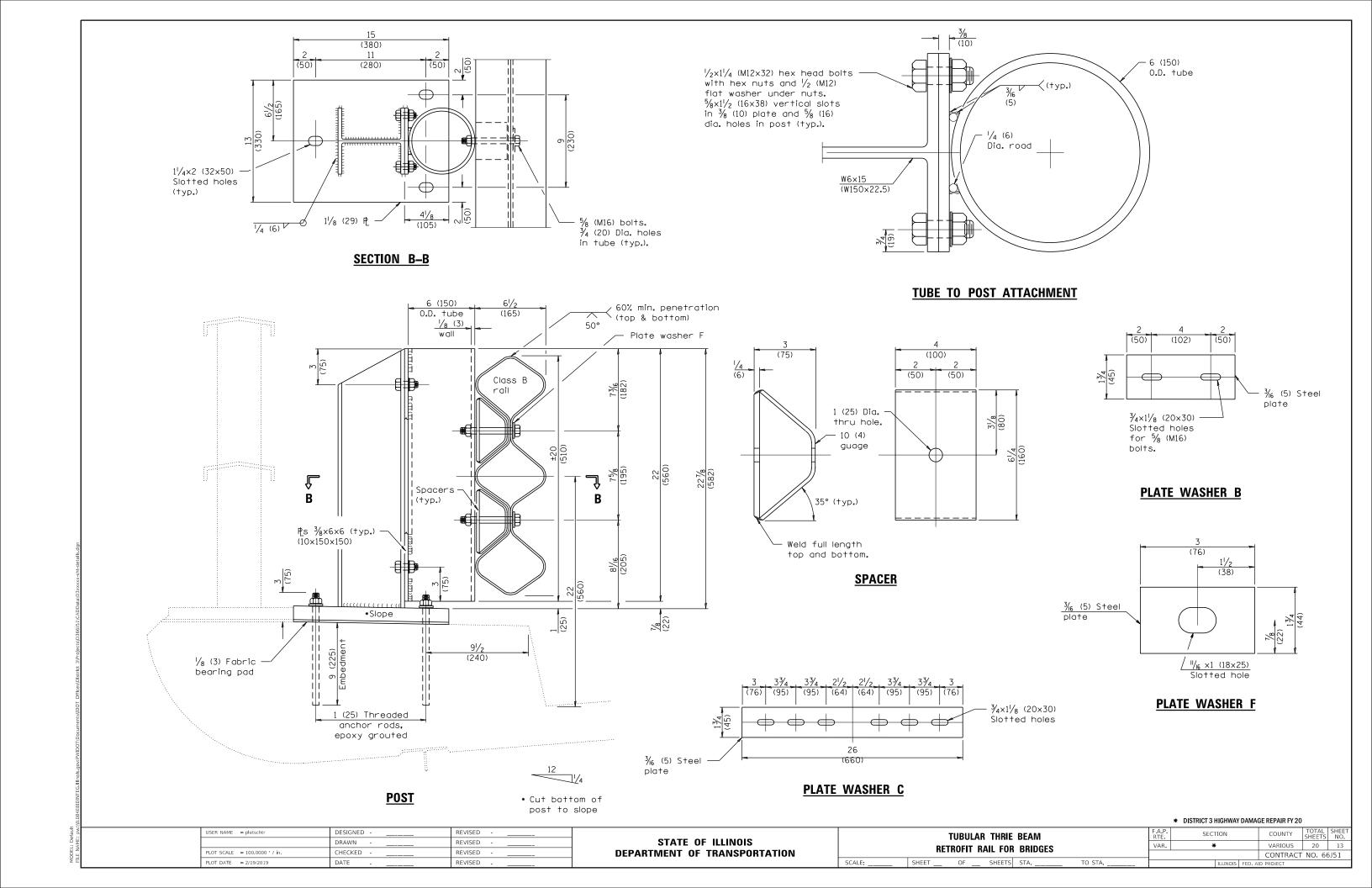
* DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 20

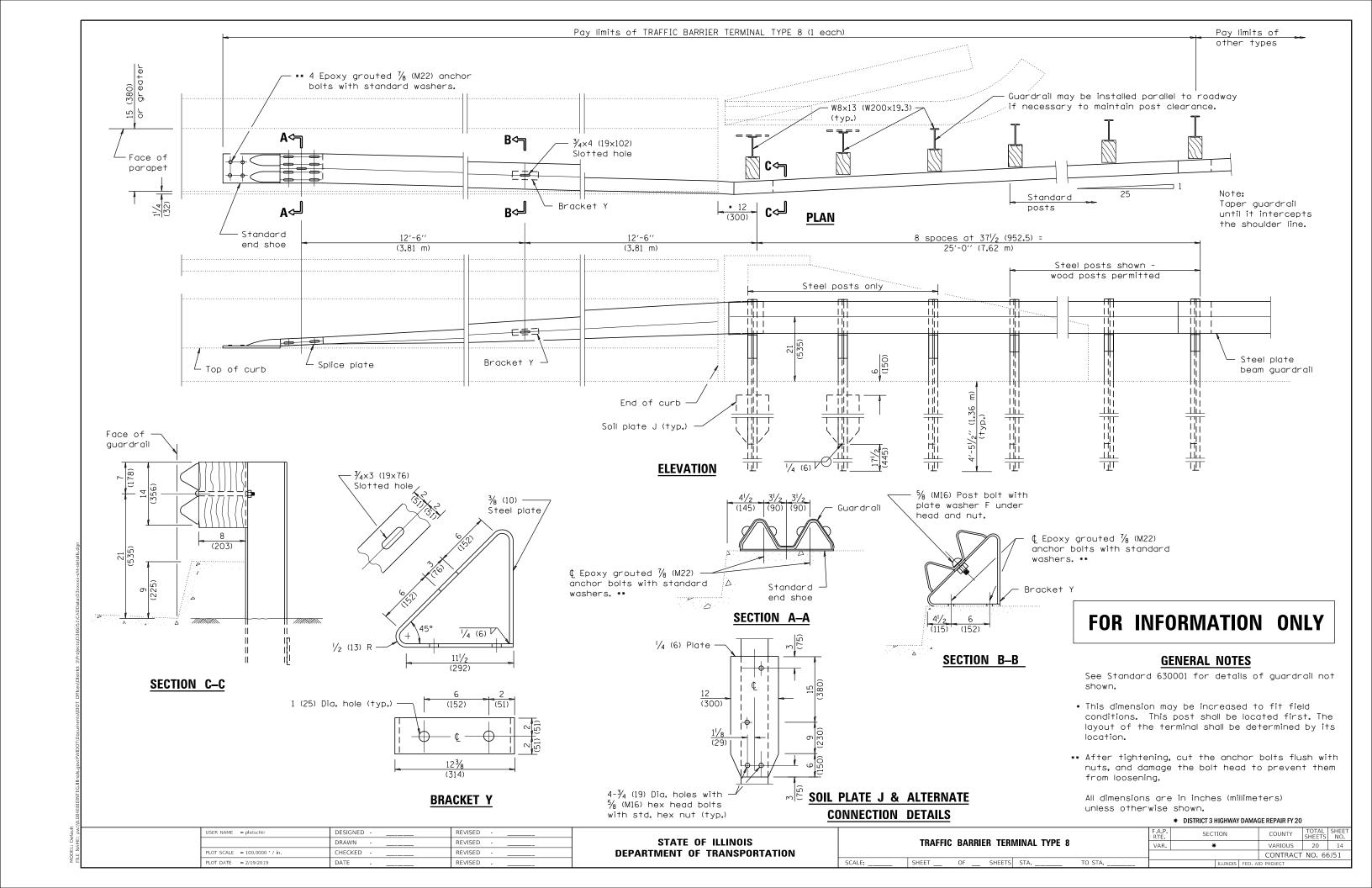
JSER NAME = pletschtr DESIGNED -REVISED COUNTY **TUBULAR THRIE BEAM** STATE OF ILLINOIS DRAWN REVISED VARIOUS 20 11 VAR. RETROFIT RAIL FOR BRIDGES CHECKED REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 66J51 SCALE: OF ___ SHEETS STA. TO STA. PLOT DATE = 2/19/2019 DATE

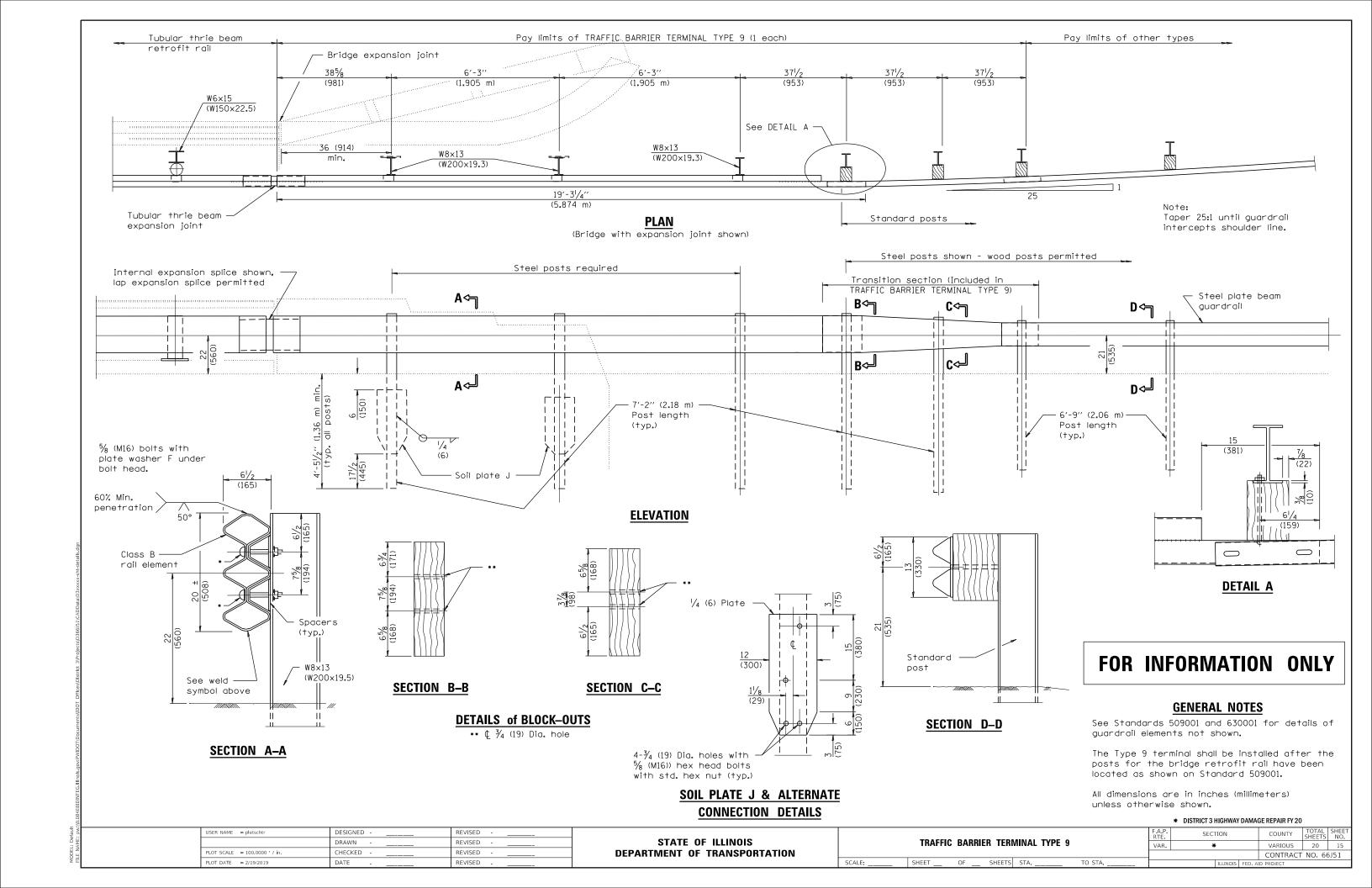
SPLICE JOINT

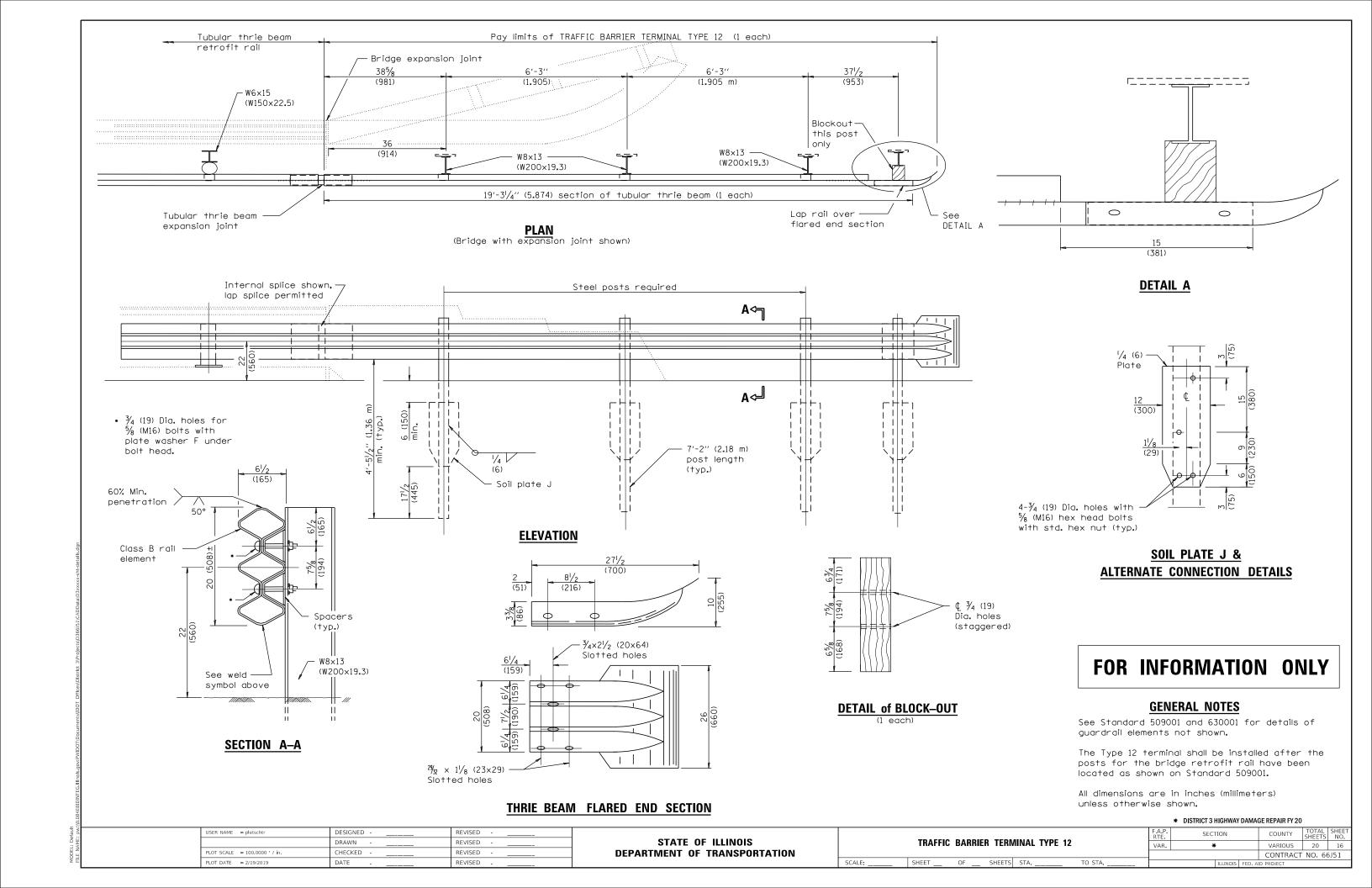
thrie beam.

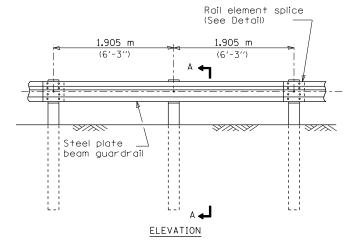




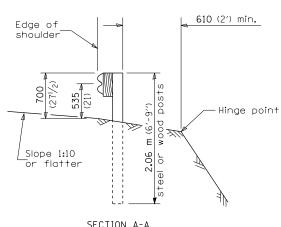




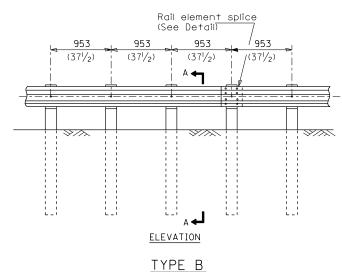




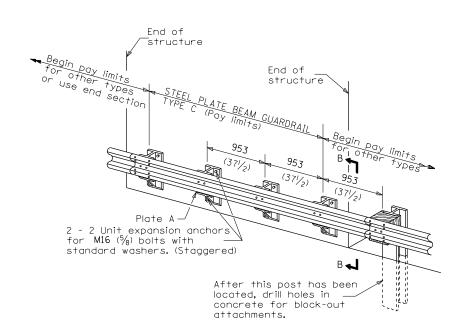
TYPE A 1.905 m (6'-3") Typical post spacing



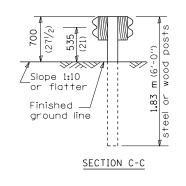


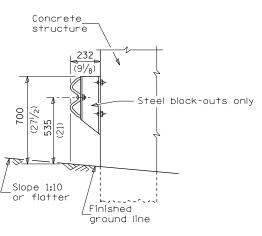


953 $(37\frac{1}{2})$ Closed post spacing

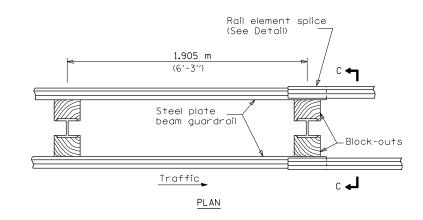


TYPE C 953 $(37\frac{1}{2})$ Block-out spacing





SECTION B-B



TYPE D

Double steel plate beam guardrail 1.905 m (6'-3") typical post spacing

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.

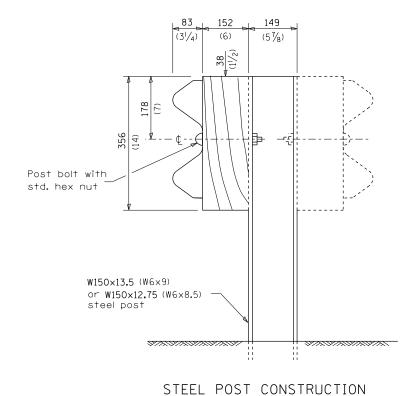
* DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 20

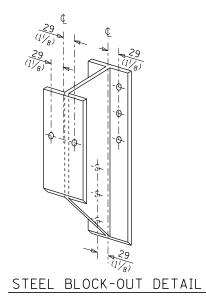
JSER NAME = pletschtr DESIGNED -REVISED DRAWN REVISED CHECKED REVISED PLOT DATE = 2/19/2019 REVISED DATE

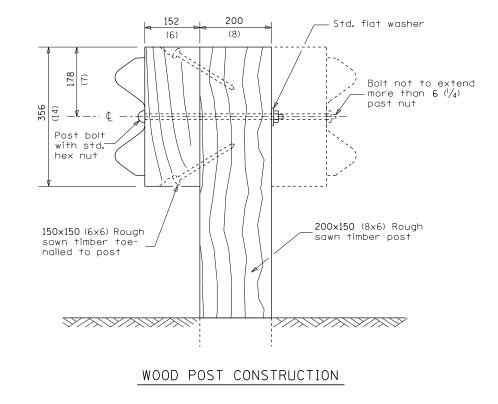
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

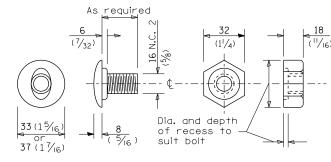
PRE-MGS EFFECTIVE 4-1-06 STEEL PLATE BEAM GUARDRAIL STANDARD 630001-06 SHEETS STA.

SECTION 20 17 VARIOUS CONTRACT NO. 66J51









POST OR SPLICE BOLT & NUT

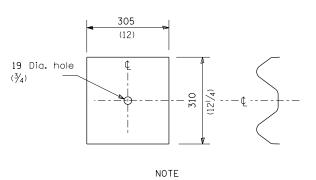


Plate A shall be placed between rail element and block-out at non-splice mounting points only when steel block-outs are used.

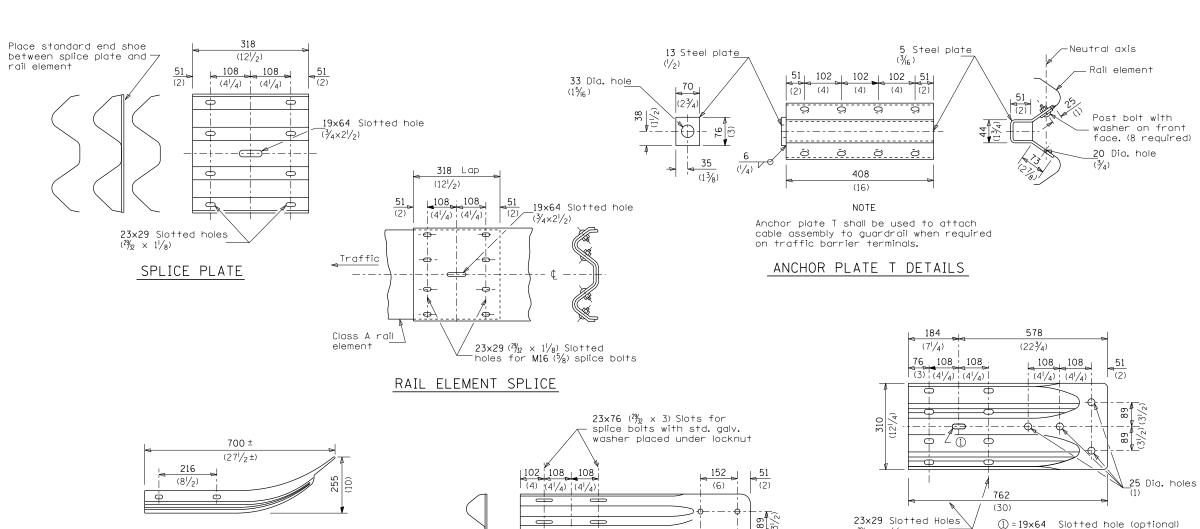
PLATE A

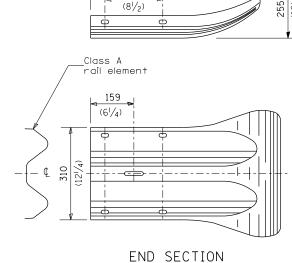
USER NAME = pletschtr	DESIGNED	REVISED
	DRAWN	REVISED
PLOT SCALE = 100.0000 ' / in.	CHECKED	REVISED
PLOT DATE = 2/19/2019	DATE	REVISED
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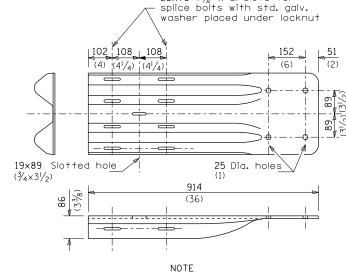
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

			* DISTRICTS	HIGHWAY	DAMA	SE REPAIR FY 20)
	PRE-MGS EFFECTIVE 4-1-06	RE-MGS EFFECTIVE 4-1-06 F.A.P. RTE. SECTION CO					I
	STEEL PLATE BEAM GUARDRAIL STANDARD 630001-06		₹. *			VARIOUS	I
OTELE TEATE BEAM GOARDINAL STANDARD 050001-00						CONTRACT	٢
	SCALE: SHEET OF SHEETS STA TO STA			ILLINOIS	FED. A	ID PROJECT	_

TOTAL SHEET NO.







 $(2\%_{32} \times 1^{1}/_{8})$

 $(\frac{3}{4} \times 2^{1/2})$

ALTERNATE END SHOE

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.

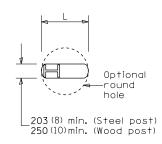
The standard end shoe shall be attached to the concrete with pre-drilled or self-drilling anchor bolts. The anchor cone shall be set flush with the surface of the concrete.

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

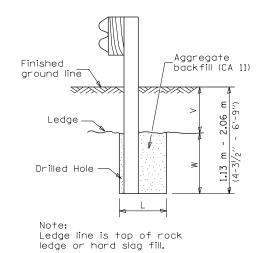
END SHOE

*	DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 20	

VARIOUS 20 19	19
CONTRACT NO. 66J51	. 1
PROJECT	
	CONTRACT NO. 6615

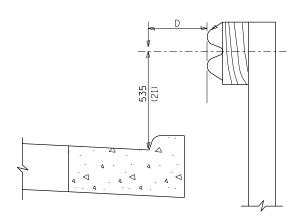


PLAN



ELEVATION

FOOTING FOR POST WHEN IMPERVIOUS MATERIAL IS ENCOUNTERED



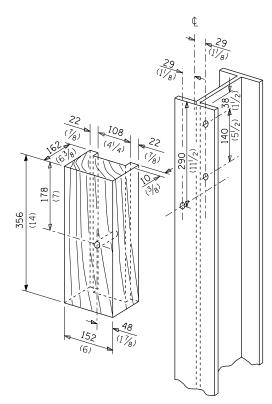
Note:

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.

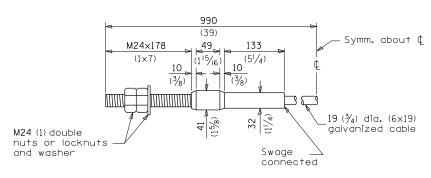
GUARDRAIL PLACED BEHIND CURB

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

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



WOOD BLOCK-OUT AND STEEL POST DETAILS



CABLE ASSEMBLY

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

* DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 20

VARIOUS 20 20

CONTRACT NO. 66J51

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

 PRE-MGS EFFECTIVE 4-1-06
 F.A.P. RTE.
 SECTION

 STEEL PLATE BEAM GUARDRAIL STANDARD 630001-06
 WAR.
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