07-31-2020 LETTING ITEM 017

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- 3 6. SUMMARY OF QUANTITIES
- 7. HTC LOCATIONS
- HTC CABLE TENSION CHARTS AND LOGS
 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

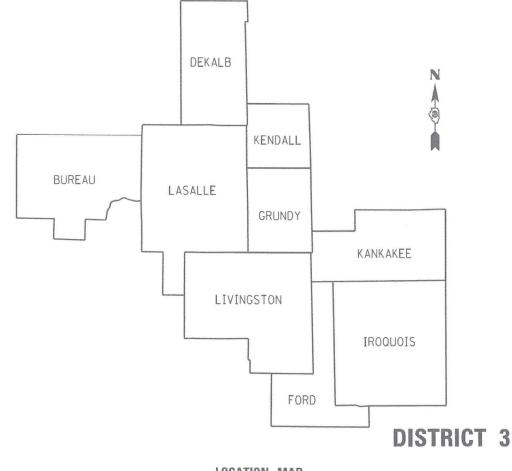
PROPOSED HIGHWAY PLANS

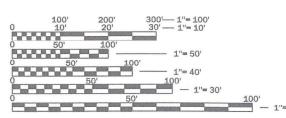
VARIOUS ROUTES D3 HWY DAMAGE REPAIR FY 21 VARIOUS COUNTIES

C-93-071-20 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 1-800-892-0123 OR 811

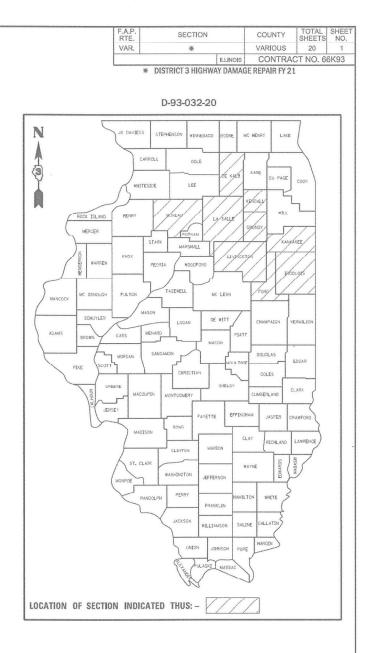
PROJECT ENGINEER: BRAD DUNCAN, PE UNIT CHIEF: DARCY CARPENTER DISTRICT 3 NO. (815) 434–6131 CONTRACT NO. 66K93

LOCATION MAP NOT TO SCALE

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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
631031-16	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
701011.01	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
701106 00	PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS \geq 45 MPH
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS \geq 45 MPH LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701301-04	
701400-09 701401-12	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-12	LANE CLOSURE, FREEWAT/EXPRESSWAT
701402-12	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP
/01411 05	FOR SPEEDS \geq 45 MPH
701416-11	LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH CROSSOVER AND BARRIER
701421-08	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY,
	FOR SPEEDS \geq 45 MPH TO 55 MPH
701422-10	LANE CLOSURE, MULTILANE, FOR SPEEDS \geq 45 MPH TO 55 MPH
701423-10	LANE CLOSURE, MULTILANE, WITH BARRIER, FOR SPEEDS \geq 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 \leq 40 MPH
701428-01	TRAFFIC CONTROL, SETUP AND REMOVAL, FREEWAY/EXPRESSWAY
701431-13	LANE CLOSURE, MULTILANE, UNDIVIDED WITH CROSSOVER,
	FOR SPEEDS \geq 45 MPH TO 55 MPH
701446-10	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

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:

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DEPARTMENT OF TRANSPORTATION DISTRICT THREE

DISTRICT STUDIES & PLANS ENGINEER

DISTRICT CONSTRUCTION ENGINEER

DISTRICT MATERIALS ENGINEER

DISTRICT OPERATIONS ENGINEER

SECTION

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VAR.

* DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 21

ILLINOIS FED. AID PROJECT

COUNTY

VARIOUS

SHEE NO.

SHEETS

CONTRACT NO. 66K93

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STATE OF ILLINOIS

PREPARED BY:

DATE:

TO STA.

EXAMINED BY:

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NO.			QUANTITY	
63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	2	
63100070	TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	1	
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	1	
63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	1	
63100089	TRAFFIC BARRIER TERMINAL, TYPE 6B	EACH	1	
63100095	TRAFFIC BARRIER TERMINAL, TYPE 8	EACH	1	
63100101	TRAFFIC BARRIER TERMINAL, TYPE 9	EACH	1	
63100105	TRAFFIC BARRIER TERMINAL, TYPE 10	EACH	1	
63100115	TRAFFIC BARRIER TERMINAL, TYPE 12	EACH	1	
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	28	
63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	6	
63301210	REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	250	
63301215	REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE B	FOOT	250	
64300260	IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1	

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66400105	CHAIN LINK FE	NCE, 4'	FOOT	20	20		
66400305	CHAIN LINK FE	NCE, 6'	FOOT	20	20		
66500105	WOVEN WIRE FE	NCE, 4'	FOOT	700	200	500	
67000400	ENGINEER'S FI	ELD OFFICE, TYPE A	CAL MO	12			12
67100100	MOBILIZATION		L SUM	1	0.5	0.5	
78200005	GUARDRAIL REF	LECTORS, TYPE A	EACH	150	50	100	
X0320057	REPAIR IMDACT	ATTENUATORS (FULLY REDIRECTIVE)	EACH	1	1		
		ATTENDATORS (FOLLT REDIRECTIVE)	EACH		1		
X0321563	REPAIR TRAFFI	C BARRIER TERMINAL TYPE 1 SPECIAL	EACH	15	5	10	
X0322878	TIMBER CURB		FOOT	5	5		
X0326126	WOOD TERMINAL	POST	EACH	2	1	1	
X0327278	REPAIR HIGH T	ENSION CABLE	FOOT	980	480		500
X0327279	REPLACE HIGH	TENSION CABLE END SECTION	EACH	2	1		1
X0327281	REMOVE AND RE	PLACE HIGH TENSION CABLE POST	EACH	650	300		350
X0327282		PLACE HTC POST (HEAVY DUTY)	EACH	500	200		300
							500
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REVISED						F.A.P RTE.	
REVISED REVISED		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		SUMMARY OF	QUANTITIES	VAR	
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CODE	1754		TOTAL
NO .	ITEM	UNIT	QUANTITY
Z0029657	HIGH TENSION CABLE SYSTEM MAINTENANCE	EACH	675
Z0029665	REPAIR TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL - RAIL ELEMENT PLATE	FOOT	25
Z0052600	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1
Z0053200	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	1
Z0053210	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	1
Z0053220	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 6B	EACH	1
Z0053400	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 8	EACH	1
Z0053500	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 9	EACH	1
Z0053575	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 12	EACH	1
Z0008761	EXPEDITED CALL OUT WORK	EACH	76

								*	DISTRICT 3 HIGHWAY DAMA	GE REPAIR FY 21	
FILE NAME =	USER NAME = pletschtr	DESIGNED	REVISED		SUMMARY OF QUANTITIES			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
pw:\\pianroom.dot.lllinols.gov:PWIDOT\Documents\IDOT	ffices\District 3\Projects\D366K93\CADData\D366K93-sht-cove	endgoRAWN	REVISED	STATE OF ILLINOIS				VARIOUS	20 6		
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION							CT NO. 66K93
Default	PLOT DATE = 3/27/2020	DATE	REVISED		SCALE:	SHEET OF SHEETS STA	TO STA		ILLINOIS FED. A		
							R	EV. 6/29/	/20 REV. 6/26/2	20 REV.	6/15/20

CC	NSTRUCTION CO	DE
MCHD	CONST MAIN	HTC BARRIER
100% MCHD	100% STATE	100% STATE
ROADWAY	ROADWAY	ROADWAY
0021	0021	0021
RURAL 07M0	RURAL 07E0	RURAL 07A0
250		425
	25	
1		
1		
1		
1		
1		
1		
1		
1		
1		
26		50
20		-
	1	

						HIGH TENSION	CABLE BARRIER F	REPAIR SYSTEN	1 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			
47, 6029+00 TO 6265+00	GRUNDY/KENDALL	TRINITY	DRIVEN (HD)	1	2	3	4		6		SCOTT MYERS (817)437-9023	RICHARD FIGLEWICZ (847)638-461	
5, MP 227-233	GRUNDY	BRIFEN	SOCKETED	1	2	3	4	5		7	RICHARD BUTLER (904)707-2728		
5, MP 216-227	GRUNDY & LIVINGSTON	GIBRALTAR	DRIVEN	1	2	3	4	5			BEN DVORAK (815)288-2343		
5, MP 207-210.5	GRUNDY	GIBRALTAR	DRIVEN	1	2	3	4	5			BEN DVORAK (815)288-2343		
5, JUST INSIDE WILL CO		GIBRALTAR	DRIVEN	1	2	3	4	5			BEN DVORAK (815)288-2343		
7, MP 322-324	KANKAKEE	GIBRALTAR	DRIVEN	1	2	3	4	5			BEN DVORAK (815)288-2343		
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	
57, MP 293-302.5	IROQUOIS/KANKAKEE	GIBRALTAR	DRIVEN	1	2	3	4	5			BEN DVORAK (815)288-2343		
7, MP 290.5-293	IROQUOIS	TRINITY	DRIVEN (HD)	1	2	3	4		6		SCOTT MYERS (817)437-9023	RICHARD FIGLEWICZ (847)638-4611	
57, MP 285-290.5	IROQUOIS	TRINITY	DRIVEN (HD)	1	2	3	4		6		SCOTT MYERS (817)437-9023	RICHARD FIGLEWICZ (847)638-4611	
7, MP 277-279	IROQUOIS	NUCOR	DRIVEN	1	2	3	4	5				Gereniy kilenidehield (313)744-0034	
0, MP 97-105	LASALLE & GRUNDY	TRINITY	DRIVEN (HD)	1	2	3	4		6		SCOTT MYERS (817)437-9023	RICHARD FIGLEWICZ (847)638-4611	
0, MP 92.5-97.1	LASALLE	TRINITY	DRIVEN (HD)	1	2	3	4		6		SCOTT MYERS (817)437-9023	RICHARD FIGLEWICZ (847)638-4611	
0, MP 80.5-92.5	LASALLE	TRINITY	DRIVEN (HD)	1	2	3	4		6		SCOTT MYERS (817)437-9023	RICHARD FIGLEWICZ (847)638-461	
0, MP 74.3-80.2	LASALLE	GIBRALTAR	DRIVEN	1	2	3	4	5			BEN DVORAK (815)288-2343		
0, MP 64-70.1	BUREAU	GIBRALTAR	DRIVEN	1	2	3	4	5			BEN DVORAK (815)288-2343		
0, 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

USER NAME = carpenterdj	DESIGNED	REVISED			F.A.P. RTE	SECTION	COUNTY TOTAL SHEET SHEETS NO.
	DRAWN	REVISED -	STATE OF ILLINOIS	HIGH TENSION CABLE LOCATIONS	VAR.	*	VARIOUS 20 7
PLOT SCALE = 100.0000 ' / in.	CHECKED	REVISED	DEPARTMENT OF TRANSPORTATION				CONTRACT NO. 66K93
PLOT DATE = 3/5/2020	DATE	REVISED -		SCALE: SHEET OF SHEETS TO STA		ILLINOIS FED. A	AID PROJECT

IRI	NITY 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

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.

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

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

System Brifen USHTCS (Nucor) Gilbraltar Trinity (CASS)

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:

FILE NAME =	USER NAME = carpenterdj	DESIGNED	REVISED -								
pw:\\planroom.dot.lllinols.gov:PWIDOT\Documents\IDOT	offices\District 3\Projects\D366K93\CADData\D366K93-sht-deta	a@RAWN	REVISED -	STATE OF ILLINOIS	HTC CABLE TENSION CHA			IAR			
	PLOT SCALE = 100.0000 '/in.	CHECKED	REVISED -	DEPARTMENT OF TRANSPORTATION							
Default	PLOT DATE = 3/5/2020	DATE	REVISED		SCALE:	SHEET _	OF _	SHEETS	3 ST		

Illinois Department of Transportation

TENSION LOG SHEET

FOR

High Tension Cable Barrier

Date / Time:

Contract / Work Order No.

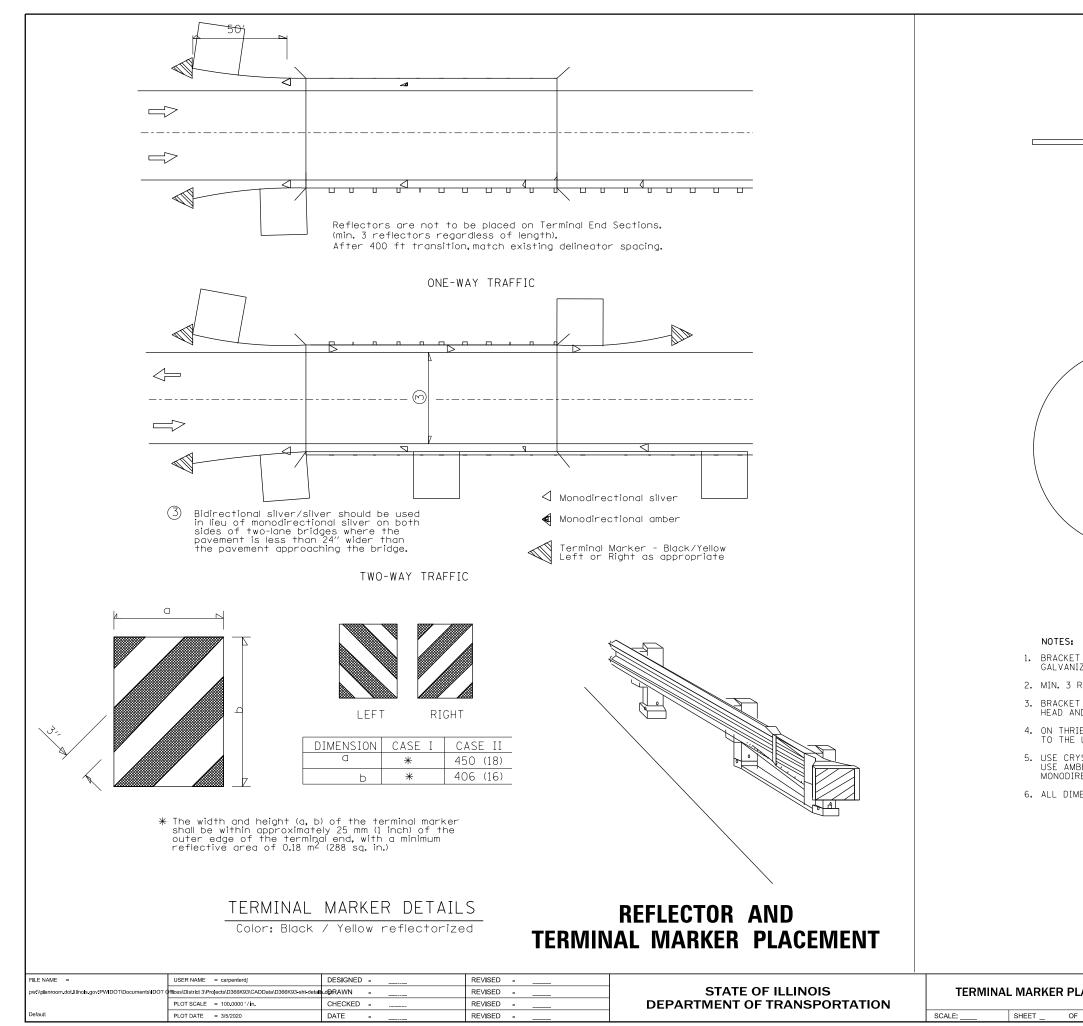
County:

Route:

Milepost/ GPS:

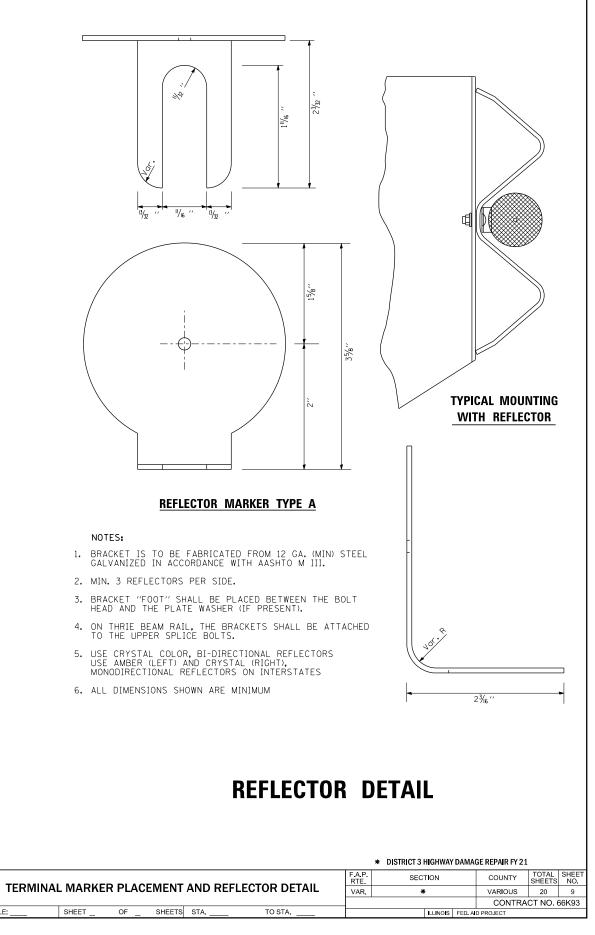
IDOT Inspector Initials (if Present):

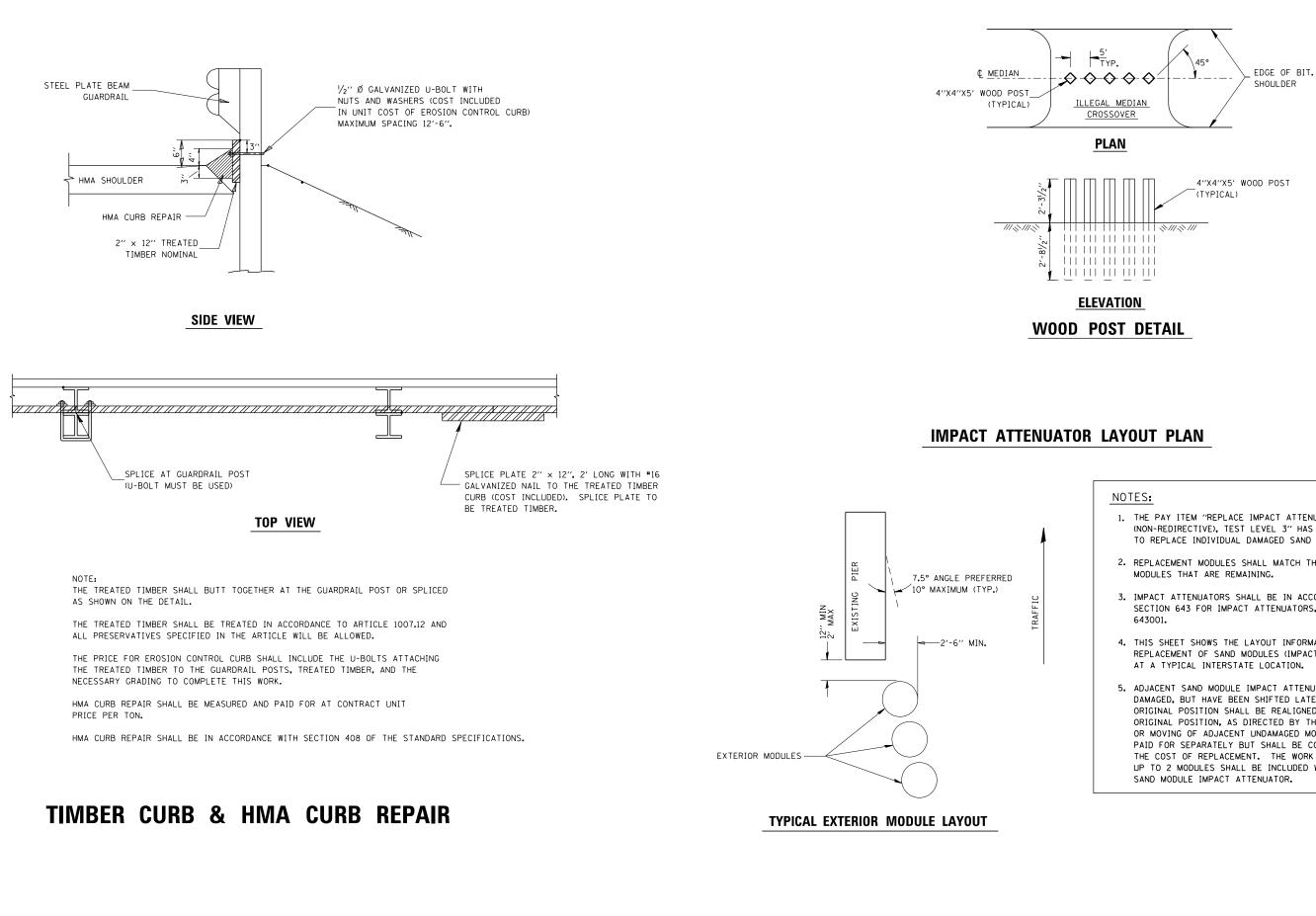
		* DISTRICT 3 H	IGHWAY	DAMAG	MAGE REPAIR FY 21				
IARTS AND LOGS		SEC	FION		COUNTY	TOTAL SHEETS	SHEET NO.		
		*			VARIOUS	20	8		
					CONTRAC	T NO. 66	6JK93		
S STA TO STA			ILLINOIS	FED. A	D PROJECT				



OF _____SHEETS____STA.

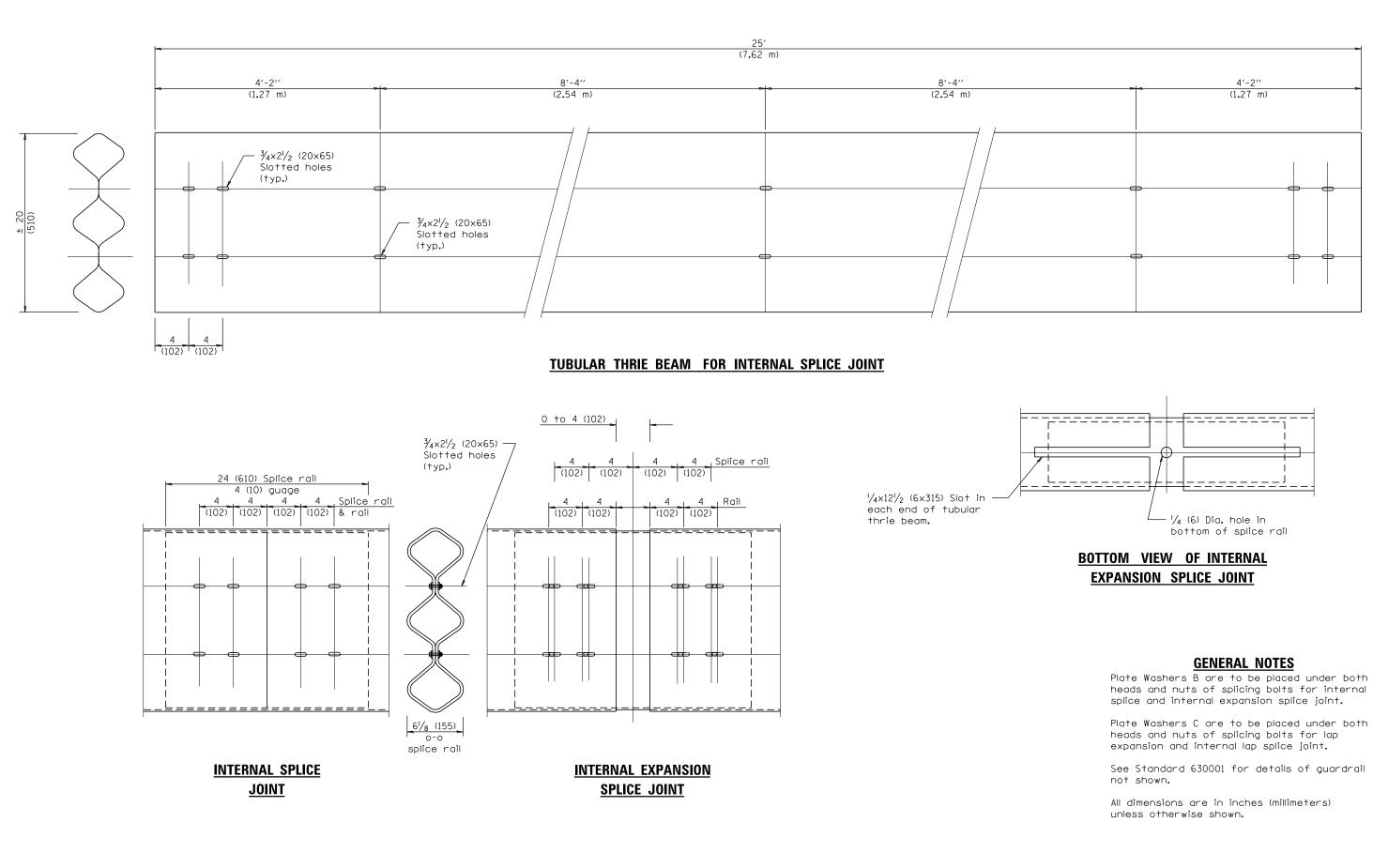
13/32



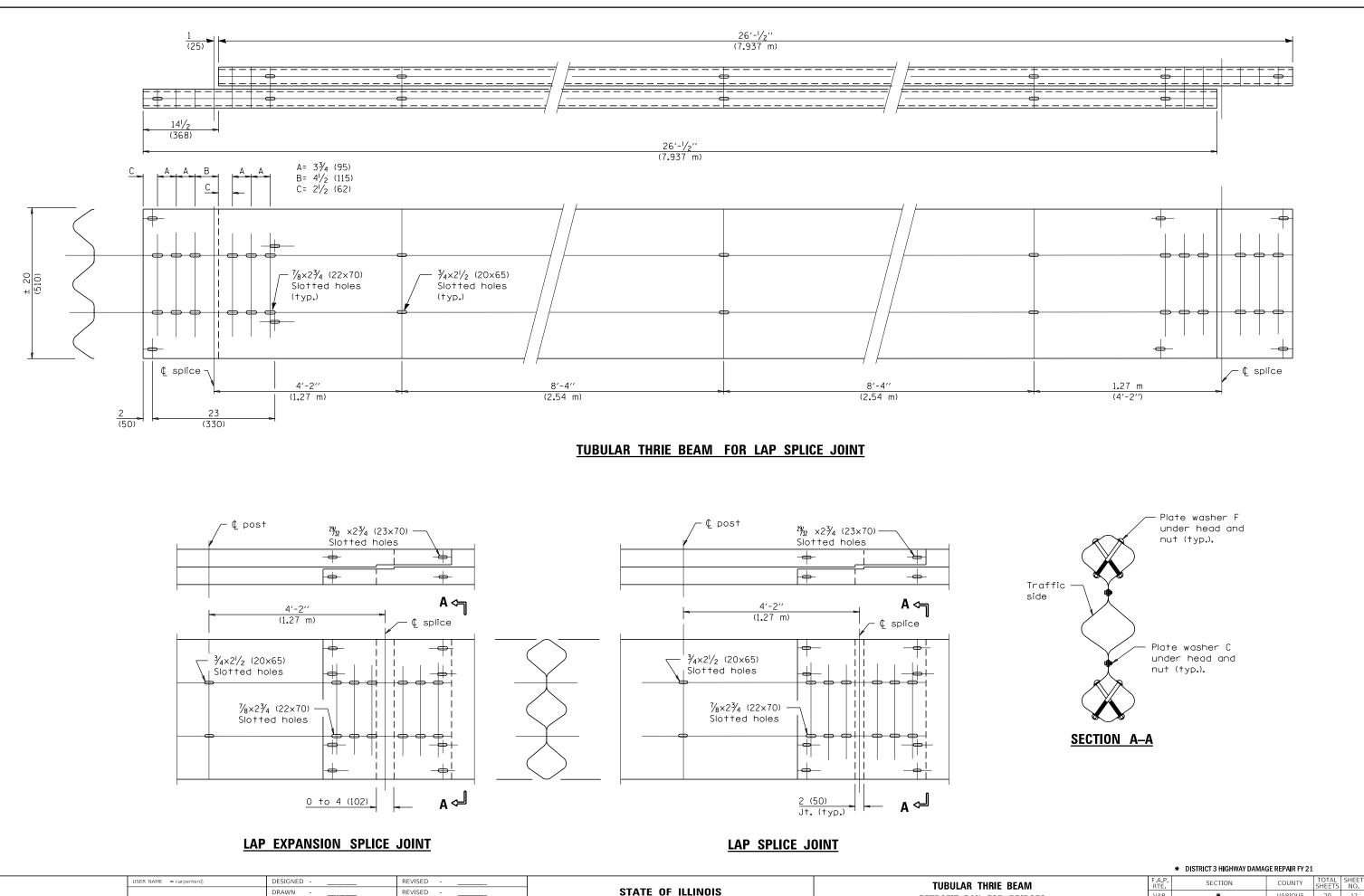


-	USER NAME = carpenterdj	DESIGNED	REVISED		TIMBER CURB & BITUMINOUS CURB REPAIR	F.A.P. RTE	SECTION	COUNTY TOTAL SHEET SHEETS NO.
		DRAWN	REVISED	STATE OF ILLINOIS	& GUARD POST DETAIL & IMPACT ATTENUATOR PLAN	VAR.	*	VARIOUS 20 10
	PLOT SCALE = 100.0000 ' / in.	CHECKED	REVISED -	DEPARTMENT OF TRANSPORTATION	& GUARD PUST DETAIL & IMPACT ATTENUATUR PLAN			CONTRACT NO. 66K93
	PLOT DATE = 3/5/2020	DATE	REVISED		SCALE: SHEET OF SHEETS STA.		ILLINOIS FED	AID PROJECT

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 3. IMPACT ATTENUATORS SHALL BE IN ACCORDANCE WITH SECTION 643 FOR IMPACT ATTENUATORS, AND WITH STANDARD 4. THIS SHEET SHOWS THE LAYOUT INFORMATION FOR REPLACEMENT OF SAND MODULES (IMPACT ATTENUATORS) 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



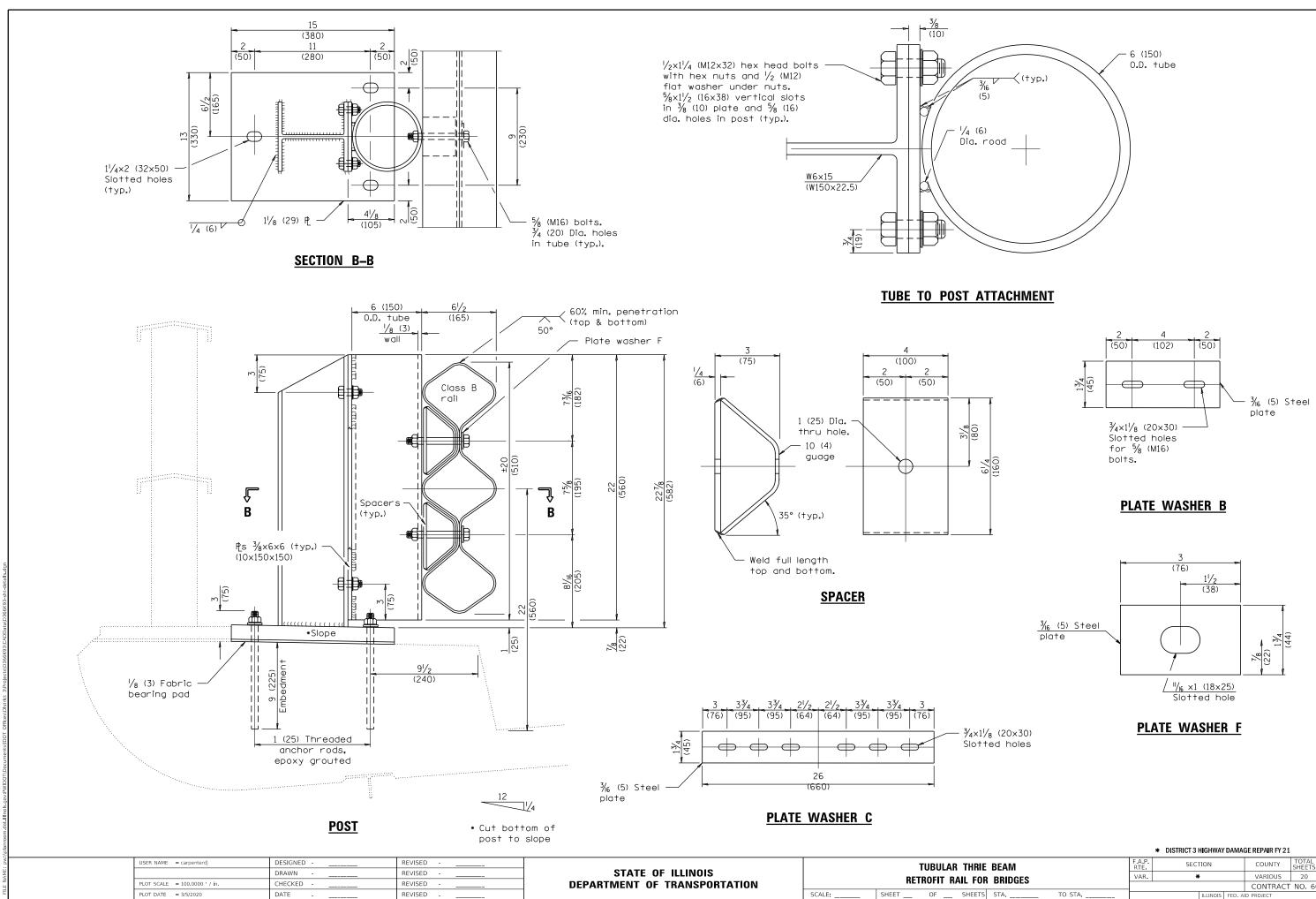
USER NAME = carpenterd) DESIGNED REVISED	TUBULAR THRIE BEAM		SECTION	COUNTY T	OTAL SHEET
DRAWN REVISED STATE OF ILLINOIS DETDOET DATE OF DEDOET DATE OF DEDOETS		VAR.	*	VARIOUS	20 11
PLOT SCALE = 100.0000 / in. CHECKED REVISED DEPARTMENT OF TRANSPORTATION				CONTRACT N	IO. 66K93
PLOT DATE = 3/5/2020 DATE REVISED End SCALE: SHEET STA.	TO STA		ILLINOIS FED. AID PROJECT		



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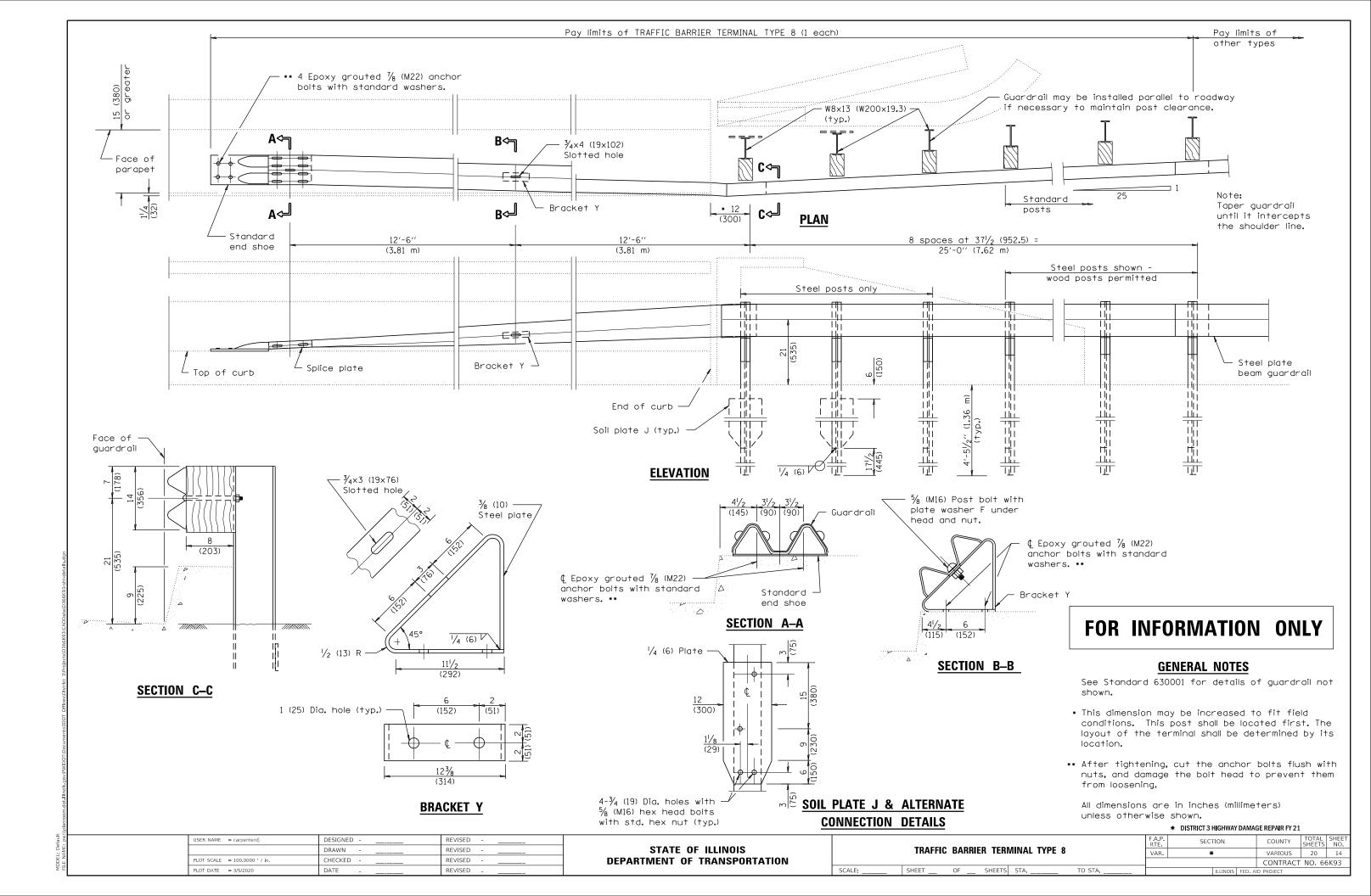
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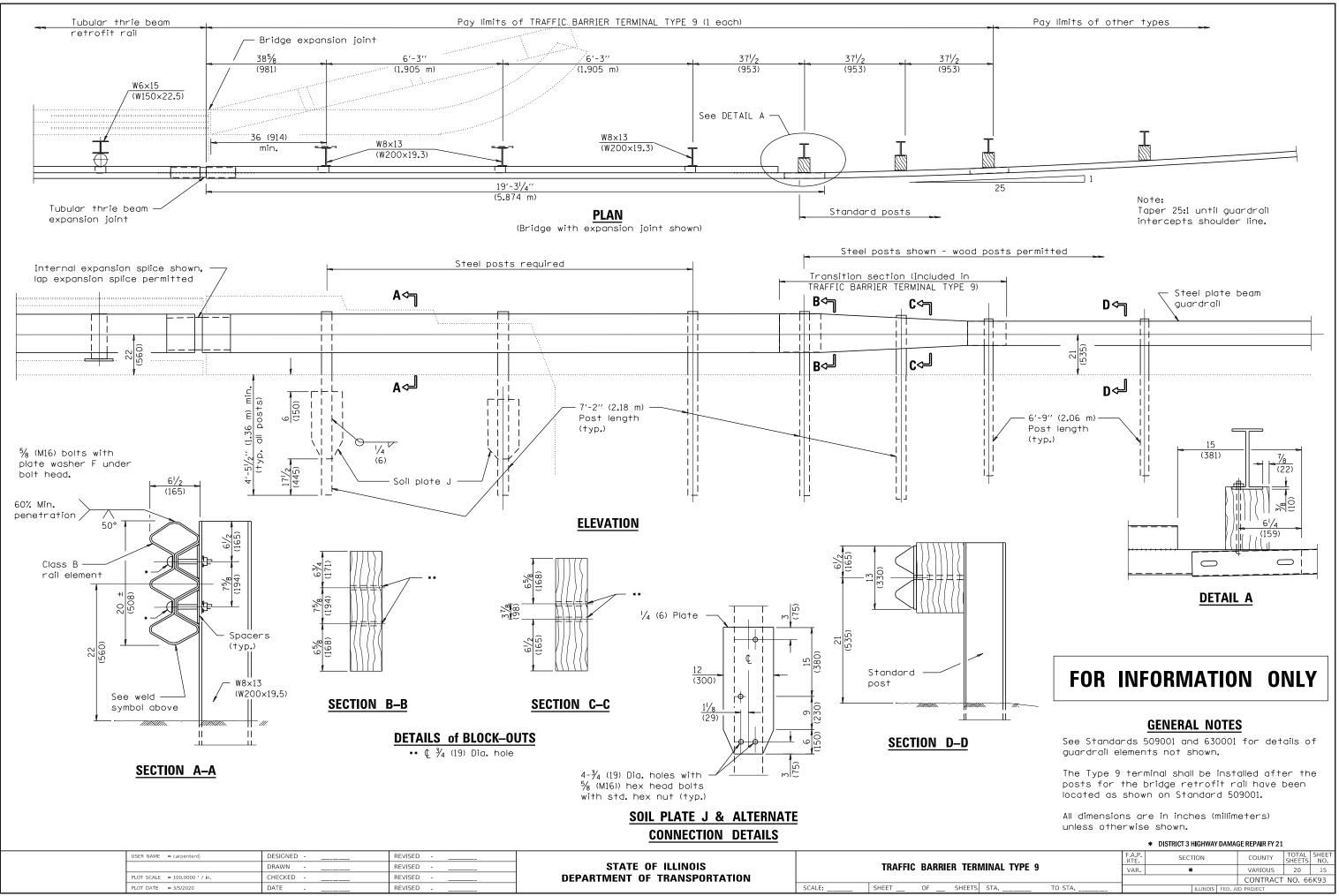
								JULLIS	NO.
np	R BRIDGES		VAR.	VAR. *			VARIOUS	20	12
							CONTRACT	NO. 66	5K93
TS	STA	TO STA			ILLINOIS	FED. A	D PROJECT		



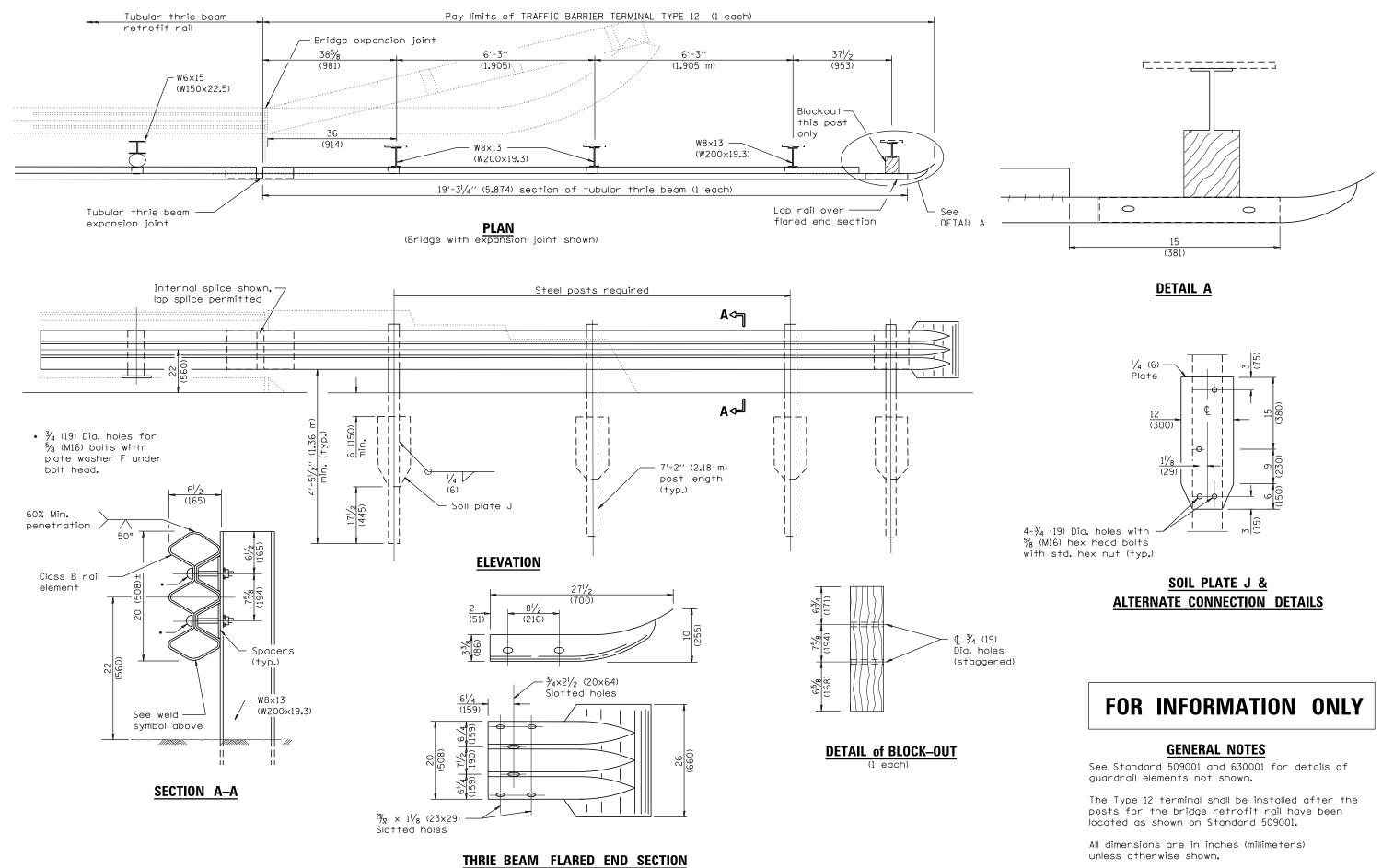
ŧ	DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 21	

E BEAM	F.A.P. RTE	SECT	TION		COUNTY	TOTAL SHEETS	SHEET NO.
R BRIDGES	VAR.	*	;		VARIOUS	20	13
UN DRIDGES					CONTRACT	NO. 66	5K93
5 STA TO STA			ILLINOIS	FED. A	D PROJECT		

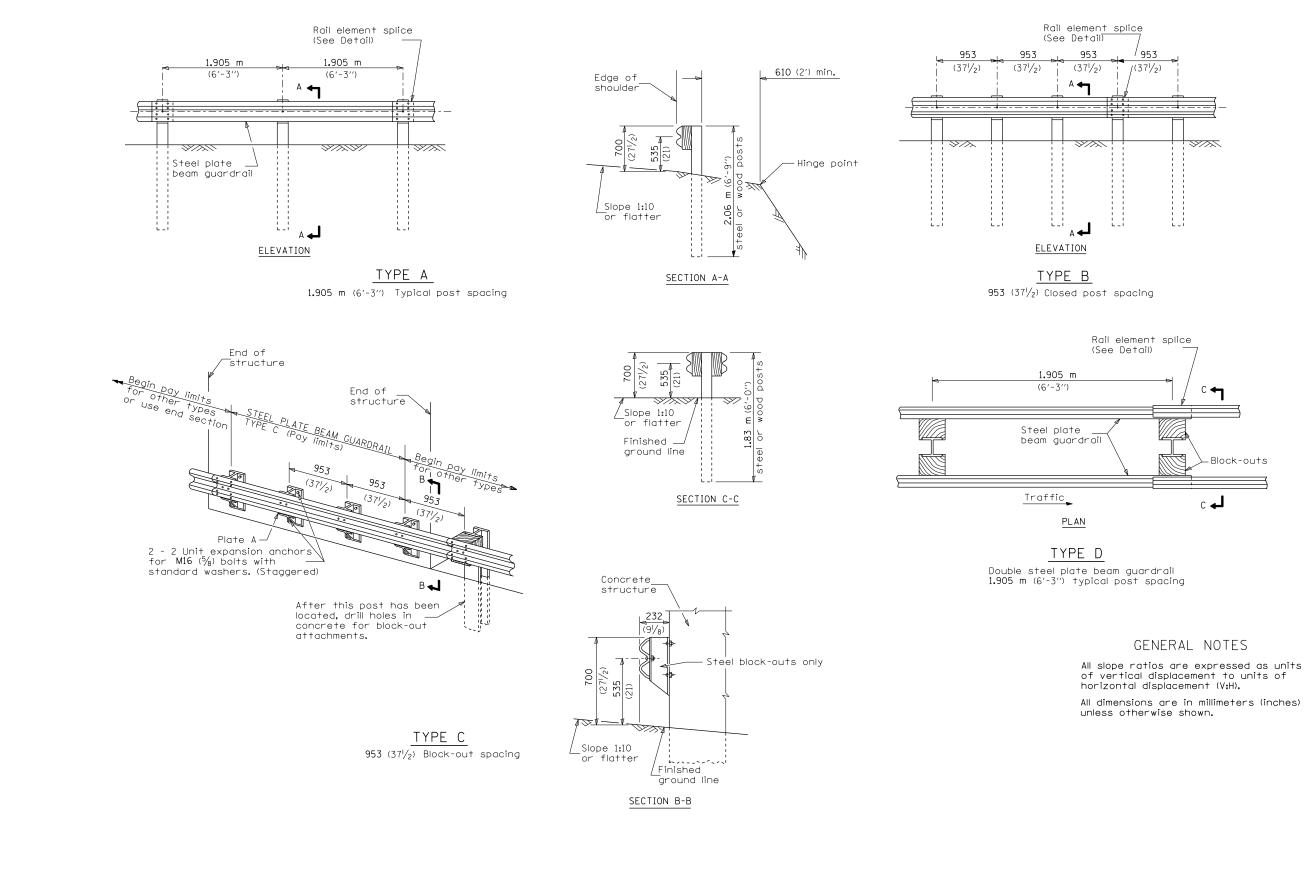




		SECT	ΓΙΟΝ		COUNTY	TOTAL SHEETS	SHEET NO.
RMINAL TYPE 9	VAR.	*	ŧ		VARIOUS	20	15
1					CONTRACT	NO. 66	5K93
TS STA TO STA			ILLINOIS	FED. A	ID PROJECT		

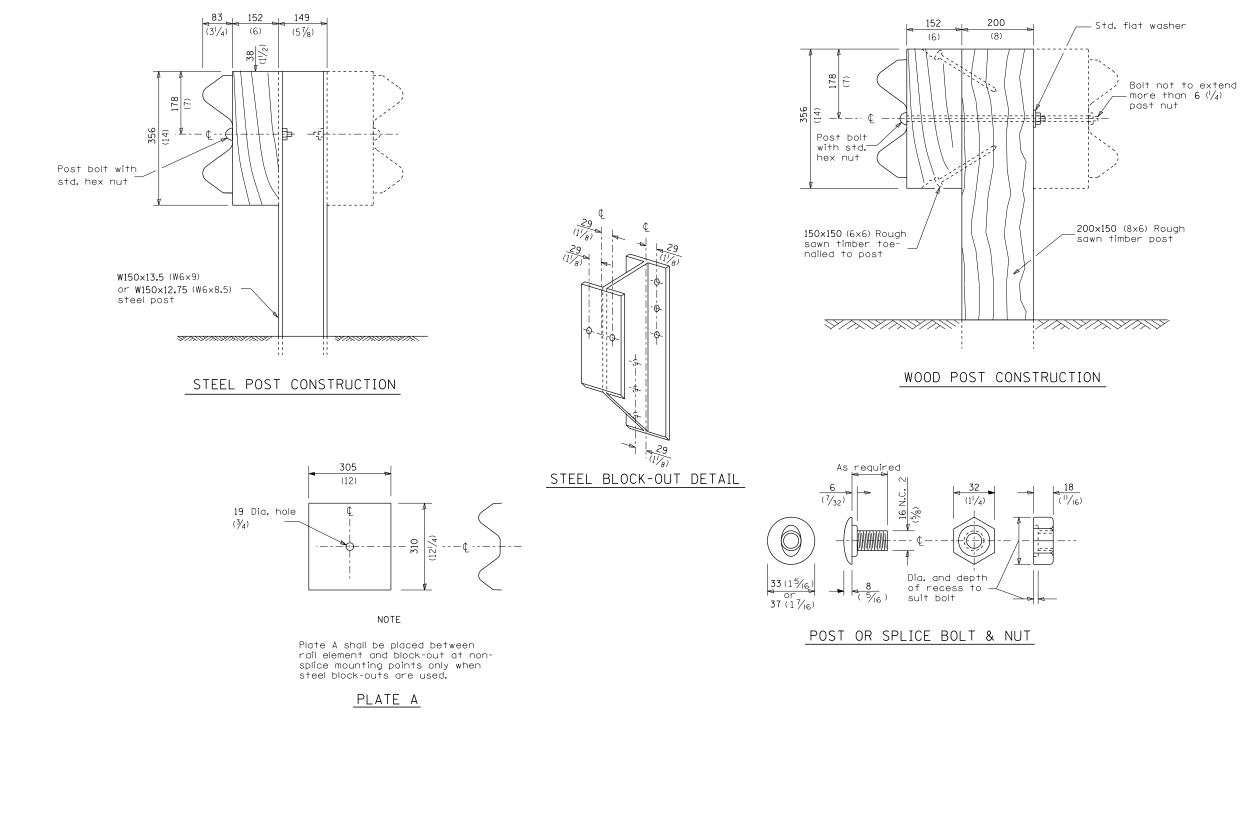


										510				
USER NAME = carpenterdj	DESIGNED	REVISED							F.A.P. BTE	SECTION	COUNTY	TOTAL :	SHEET	
	DRAWN	REVISED	STATE OF ILLINOIS		TRAFFIC BARRIER TERMINAL TYPE 12					VAR.	*	VARIOUS	20	16
PLOT SCALE = 100.0000 ' / in.	CHECKED	REVISED -	DEPARTMENT OF TRANSPORTATION							CONTRAC	r NO. 66	K93		
PLOT DATE = 3/5/2020	DATE	REVISED -		SCALE: SHEET OF SHEETS STA TO STA							ILLINOIS FED.	AID PROJECT		



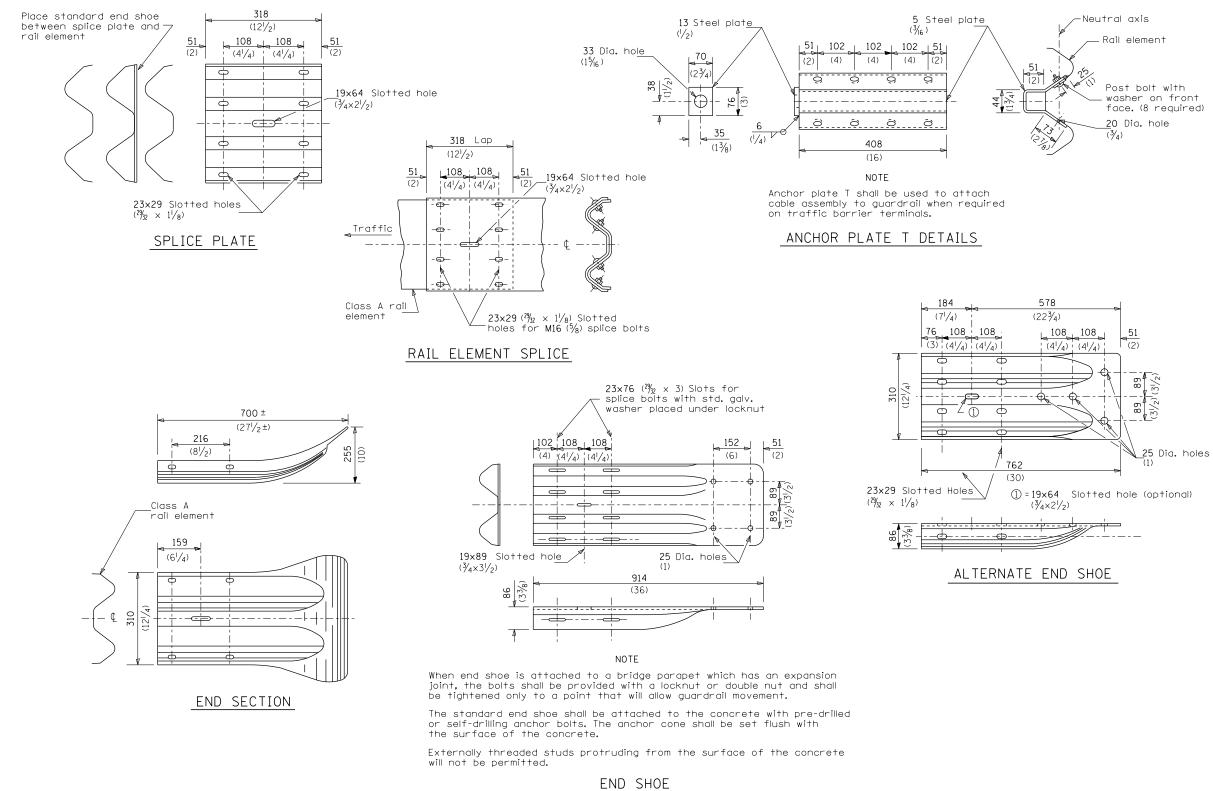
-	USER NAME = carpenterdj	DESIGNED	REVISED		PRE-MGS EFFECTIVE 4-1-06	A.P. SECTION	COUNTY TOTAL SHEET
		DRAWN	REVISED	STATE OF ILLINOIS	STEEL PLATE BEAM GUARDRAIL STANDARD 630001–06	/AR. *	VARIOUS 20 17
	PLOT SCALE = 100,0000 / in.	CHECKED	REVISED	DEPARTMENT OF TRANSPORTATION	STEEL PLATE DEAINI GUARDRAIL STANDARD 030001-00		CONTRACT NO. 66K93
	PLOT DATE = 3/5/2020	DATE	REVISED		SCALE: SHEET OF SHEETS STA. TO STA.	ILLINOIS FED. A	ID PROJECT

ŧ	DISTRICT 3	HIGHWAY	DAMAGE	REPAIR FY 21
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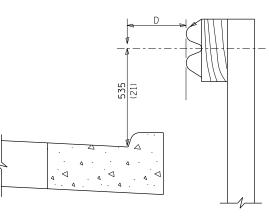
USER NAME = carpenterdj	DESIGNED	REVISED		PRE-MGS EFFECTIVE 4-1-06				F.A.P. RTE	SECTION	COUNTY	TOTAL	SHEET NO.	
PLOT SCALE = 100.0000 ' / in.	DRAWN CHECKED -	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STEEL PLATE BEAM GUARDRAIL STANDARD 630001–06		VAR.	*		20	18			
PLOT DATE = 3/5/2020	DATE	REVISED -	DEFAILINENT OF THANSFORTATION	SCALE: SHEET OF SHEETS STA. TO STA.						ILLINOIS FED.		NO. 66	<u>K93</u>

*	DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 21	



USER NAME = carpenterdj	DESIGNED	REVISED			PRE-MGS EFFECTIVE 4-1-06 STEEL PLATE BEAM GUARDRAIL STANDARD 630001-06				F.A.P. RTE	SECTION	COUNTY TOTAL SHEET SHEETS NO.
	DRAWN	REVISED	STATE OF ILLINOIS	етесі					VAR.	*	VARIOUS 20 19
PLOT SCALE = 100.0000 ' / in.	CHECKED	REVISED	DEPARTMENT OF TRANSPORTATION	SIEEL							CONTRACT NO. 66K93
PLOT DATE = 3/5/2020	DATE	REVISED		SCALE: OF SHEETS STA.						ILLINOIS FEE	AID PROJECT

*	DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 21
Ŧ	DISTRICTS RIGRWAT DAMAGE REPAIR FT 21





V

0 - 460 (0 - 18)

>460 - 825 (>18 - 41.5)

>825 - 1.13 m (>41.5 - 53.5)

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

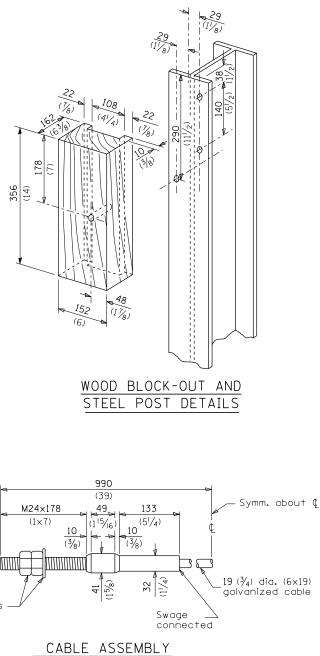
(D = 0 desirable to 300 (12) maximum)

W

610 (24)

305 (12)

305 - 0 (12 - 0)





	M24×178 (1×7)	(39) 49 $(1^{15}/16)$ 8 8
M24 (1) double nuts or locknut and washer		41 (15/8)

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

Finished ground line Ledge Drilled Hole
Note: Ledge line is top of rock ledge or hard slag fill.
ELEVATION

PLAN

Optional -round

hole

_203(8) min. (Steel post) 250(10)min. (Wood post)

FOOTING FOR POST WHEN IMPERVIOUS MATERIAL IS ENCOUNTERED

	USER NAME = carpenterdj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PRE-MGS EFFECTIVE 4-1-06	F.A.P. SECTION	COUNTY TOTAL SHEET
		DRAWN	REVISED -			VAR. *	VARIOUS 20 20
	PLOT SCALE = 100.0000 / in.	CHECKED	REVISED		STEEL PLATE BEAM GUARDRAIL STANDARD 630001–06		CONTRACT NO. 66K93
	PLOT DATE = 3/5/2020	DATE	REVISED -		SCALE: OF SHEETS STA. TO STA.	ILLINOIS FED	AID PROJECT

L

Steel Post Wood Post

530 (21)

203 (8)

203 (8)

580 (23)

250 (10)

250 (10)

*	DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 21
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