06-11-2021 LETTING ITEM 131

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A. SECTION COUNTY TOTAL SHEET NO.

VAR. D9 GUARDRAIL REPAIR FY22-1 VARIOUS 20 1

ILLINOIS CONTRACT NO. 78868

D-99-046-21

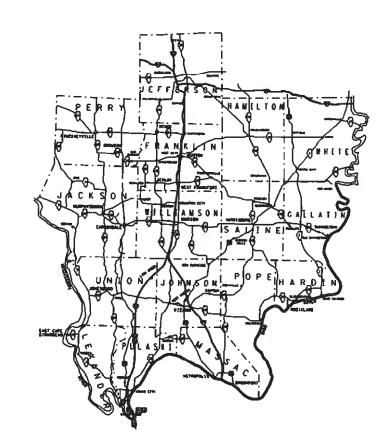
FOR INDEX OF SHEETS, SEE SHEET NO. 3
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 5

PROPOSED HIGHWAY PLANS

VARIOUS ROUTES
SECTION D9 GUARDRAIL REPAIR FY22-1

GUARDRAIL REPAIR VARIOUS COUNTIES

C-99-062-21



LOCATION OF SECTION INDICATED THUS: -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED

REGION FIVE ENGINEER

May 7, 2021

ENGINEER OF DESIGN AND ENVIRONMENT

May 7, 2021

DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

13

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

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

PROJECT ENGINEER: SUSAN POE PROJECT DESIGNER: JOHN BROWN

CONTRACT NO. 78868

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Prepared By:

DISTRICT STUDIES & PLANS ENGINEER

Examined By:

DISTRICT LAND ACQUISITION ENGINEER

Examined By:

DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By:

DISTRICT OPERATIONS ENGINEER

Examined By:

DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By:

DISTRICT CONSTRUCTION ENGINEER

Examined By:

DISTRICT MATERIALS ENGINEER

FILE NAME : REVISED -DESIGNED -RTE. SECTION COUNTY SHEETS NO.

VAR. 09 GUARDRAIL REPAIR FY22-1 VARIOUS 20 2 STATE OF ILLINOIS SIGNATURE SHEET into\BDT Offices\District 9\Projects\G a**DBAND**ita\Coometrics\guerdreil.dgn REVISED -PLOT SCALE + 100.0000 1/ in-CHECKED -REVISED -**DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 78868 \$CALE: OF SHEETS STA. TO STA. PLOT DATE + 2/11/2021 REVISED -

INDEX OF SHEETS

SHEET NO.	DESCRIPTION COVER SHEET
2	SIGNATURE SHEET
3	INDEX OF SHEETS, STANDARDS
4	GENERAL NOTES
5 - 7	SUMMARY OF QUANTITIES
8 - 11	STEEL PLATE BEAM GUARDRAIL STANDARD INSTALLED PRIOR TO JANUARY 1, 2007
12 - 14	TRAFFIC BARRIER TERMINAL, TYPE 6 STANDARD INSTALLED PRIOR TO JANUARY 1, 2007
15 -17	TRAFFIC BARRIER TERMINAL, TYPE 6A STANDARD INSTALLED PRIOR TO JANUARY 1, 2007
18 - 19	TRAFFIC BARRIER TERMINAL, TYPE 6B STANDARD INSTALLED PRIOR TO JANUARY 1, 2007
20	CRASH-CUSHION ATTENUATING TERMINAL (C-A-T)

LIST OF STANDARDS

<u> </u>	<u>uf Standards</u>
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND A FOOT
630001-12	STEEL PLATE BEAM GUARDRAIL
630006	NON-BLOCKED STEEL PLATE BEAM GUARDRAIL
630016	BACK SIDE PROTECTION OF GUARDRAIL
630101-10	STRONG POST GUARDRAILATTACHED TO CULVERT
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631011-10	TRAFFIC BARRIER TERMINAL, TYPE 2
631026-06	TRAFFIC BARRIER TERMINA, TYPE 5
631031-17	TRAFFIC BARRIER TERMINAL, TYPE 6
631032-09	TRAFFIC BARRIER TERMINAL, TYPE 6A
631033-08	TRAFFIC BARRIER TERMINAL, TYPE 6B
635001-02	DELINEATORS
636001-02	CABLE ROAD GUARD SINGLE STRAND
643001-02	SAND MODULE IMPACT ATTENUATORS
664001-02	CHAIN LINK FENCE
665001-02	WOVEN WIRE FENCE
701001-02	OFF ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE

LIST OF STANDARDS

701101-05	OFF ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701106-02	OFF ROAD OPERATIONS. MULTILANE, MORE THAN 15' AWAY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY FOR SPEEDS GREATER OR EQUAL TO 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TERM OPERATIONS
701400-10	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-12	LANE CLOSURE, FREEWAY/EXPRESSWAY
701406-12	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
701421-08	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY FOR SPEEDS GREATER OR EQUAL TO 45 MPH
701422-10	LANE CLOSURE, MULTILANE, FOR SPEEDS GREATER THAN OR EQUAL TO 45 MPH TO 55 MPH
701428-01	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY
701456-05	PARTIAL EXIT RMAP CLOSURE FREEWAY/EXPRESSWAY
701501-06	URBAN LANF CLOSURF, 21, 2W, UNDIVIDED
701502-09	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W AND 2W WITH NONTRAVERSABLE MEDIAN
701602-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-08	TRAFFIC CONTROL DEVICE
725001-01	OBJECT AND TERMINAL MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

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701011-04 OFF ROAD OPERATIONS, 2L, 2W, DAY ONLY

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								CONTRACT	T NO. 1	78868
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GENERAL NOTES

BEFORE ORDERING THE IMPACT ATTENUATORS, THE CONTRACTOR MUST CONTACT THE RESIDENT ENGINEER TO RECEIVE APPROVAL OF THE PROPOSED INSTALLATION.

ALL WORK IS TO BE REPLACED IN KIND OR AS INDICATED ON THE CONTRACT PLANS OR SPECIAL PROVISIONS.

THE LOCATIONS OF THE REPAIR AREAS SHALL BE DETERMINED BY THE ENGINEER.

GUARDRAIL WORK WILL INCLUDE ALIGNMENT AS NECESSARY TO RESTORE THE RAIL TO THE ORIGINAL CONDITIONS.

REMOVAL OF DAMAGED MATERIALS WILL INCLUDE DISMANTLING, LOADING, HAULING AND DISPOSAL. THE WORK SITE WILL BE LEFT IN A SAFE AND ORDERLY CONDITION.

THE LIMITS OF THE DAMAGED GUARDRAIL WILL BE MARKED WITH PAINT. THE REPLACEMENT PARTS AND THE OUANTITIES INDICATED ARE WITHIN THESE LIMITS AS MARKED.

REMOVED GUARDRAIL THAT IS NOT REPLACED ON THE SAME DAY MUST BE DELINEATED WITH LIGHTED BARRICADES. NO LOCATIONS WILL BE LEFT WITHOUT EITHER LIGHTED BARRICADES OR RESTORED GUARDRAIL AT ANY TIME.

ILLINOIS STATE LAW ENFORCES A 48-HOUR NOTICE TO BE GIVEN TO UTILITES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. (PHONE: 800 892-0123) OR FOR NON-MEMBER, THE UTILITY COMPANY DIRECTLY.

THE CONTRACTOR SHALL BE ADVISED THAT THE GUARDRAIL PAY ITEMS INCLUDED IN THE PLANS MAY BE USED TO REPLACE/REPAIR SPBGR AND TRAFFIC BARRIER TERMINALS FOR THE NEW MIDWEST STANDARD AS SHOWN ON THE HIGHWAY STANDARDS AS WELL AS SPBGR AND TRAFFIC BARRIER TERMINAL INSTALLED PRIOR TO JAN.

1, 2007 AS SHOWN IN THE PLAN DETAILS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR UTILIZING THE CURRENT MIDWEST STANDARDS.

COMMITMENTS

NONE

SCALE:

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	GENERAL NOTES & COMMITMENTS					F.A RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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								CONTRACT	NO.	8868
	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	D PROJECT		

SUMMARY OF QUANTITIES

ITEM DESCRIPTION

TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT

TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED

HIGH TENSION CABLE MEDIAN BARRIER TERMINALS

REPAIR HIGH TENSION BARRIER TERMINAL (GIBRALTAR)

REPAIR HIGH TENSION CABLE SYSTEM END SECTION (TRINITY)

REPAIR HIGH TENSION CABLE (GIBRALTAR)

REMOVE AND REPLACE POSTS (GIBRALTAR)

REPAIR HIGH TENSION CABLE (TRINITY)

REPAIR POSTS (TRINITY)

IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3

CODE

NUMBER

25000100

63100167

63100169

64300260

64401300

67100100

X0325899

X0325900

X0325902

X0326201

X0326202

X0326203

SEEDING, CLASS 1

MOBILIZATION

COUNTY:	COUNTY:	VARIOUS	VARIOUS	VARIOUS
ROUTE:	ROUTE:	VARIOUS	VARIOUS	VARIOUS
FUND I NG:	FUND I NG:	100% STATE	100% STATE	100% STATE
LOCATION:	LOCATION:	RURAL	RURAL	RURAL
UNIT	TOTAL	MCHD	HIT AND RUN	HIGH TENSION CABLE
	QUANTITY	0021	0021	0021
ACRE	10	5	3	2
EACH	97	80	17	
EACH	11	8	3	
EACH	6	4	2	
EACH	13	5	5	3
L SUM	1	1	0	0
FOOT	400	166	125	109
EACH	13	6	3	4
EACH	156	31	25	100
FOOT	390	166	125	99
EACH	68	31	25	12
EACH	12	6	3	3

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		LOCATION:	LOCATION:	RURAL	RURAL	RURAL
CODE	ITEM DESCRIPTION	UNIT	TOTAL	MCHD	HIT AND RUN	HIGH TENSION CABLE
NUMBER	TIEM DESCRIFTION	UNII	QUANTITY	0021	0021	0021
X6300210	GUARDRAIL BLOCKS	EACH	400	300	100	
X6300215	RAIL ELEMENT PLATES	EACH	239	226	13	
X6300217	RAIL ELEMENT PLATES (RADIUS)	EACH	12	9	3	
X6300220	EXTRUDER HEAD	EACH	7	4	3	
70300220		Lacii	'			
X6300230	STEEL POSTS	EACH	244	231	13	
X6300231	STEEL POST, ATTACHED TO STRUCTURES	EACH	3	3		
X6300235	WOOD POSTS	EACH	31	16	15	
X6310088	TRAFFIC BARRIER TERMINAL TYPE 6A (SPECIAL)	EACH	5	5		
X6310176	TRAFFIC BARRIER TERMINAL, TYPE 2 (SPECIAL)	EACH	6	6		
7,0010110	The state of the s	2.70.1	ı	, and the second		
X6310214	TRAFFIC BARRIER TERMINAL, TYPE 6 (SPECIAL)	EACH	6	6		
		5.5	_			
X6311215	TRAFFIC BARRIER TERMINAL (C-A-T)	EACH	8	5	3	
X6311217	TRAFFIC BARRIER TERMINAL, TYPE 6B (SPECIAL)	EACH	6	6		

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SUMMARY OF QUANTITIES - CONT

COUNTY:	COUNTY:	VARIOUS	VARIOUS
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LOCATION:	LOCATION:	RURAL	RURAL
	ΤΩΤΔΙ	MCHD	HIT AND RUN

		Į.				TOOM STATE
		LOCATION:	LOCATION:	RURAL	RURAL	RURAL
CODE	ITEM DESCRIPTION	UNIT	TOTAL	M C HD	HIT AND RUN	HIGH TENSION CABLE
NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY	0021	0021	0021
X6331110	STEEL POSTS, SPECIAL	EACH	3	3		
					_	
X6430210	REMOVE AND REINSTALL IMPACT ATTENUATORS	EACH	34	31	3	
X6640298	CHAIN LINK FENCE (SPECIAL)	FOOT	163	101	62	
x6650208	WOVEN WIRE FENCE REMOVAL AND REPLACEMENT	FOOT	101	101		
X7010102	NIGHTTIME WORK ZONE LIGHTING	EACH	40	22	18	
X7011834	TRAFFIC CONTROL AND PROTECTION, CALL OUT WORK	EACH	53	36	17	
X7011836	TRAFFIC CONTROL AND PROTECTION, FREEWAY/EXPRESSWAY, CALL OUT WORK	EACH	60	38	17	5
Z0052410	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL (TANCENT)	EACH	24	16	8	
Z0052415	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL (FLARED)	EACH	8	5	3	
Z0053200	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	7	4	3	
Z0053210	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	5	5		
Z0053220	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 6B	EACH	5	5		
			-	-		

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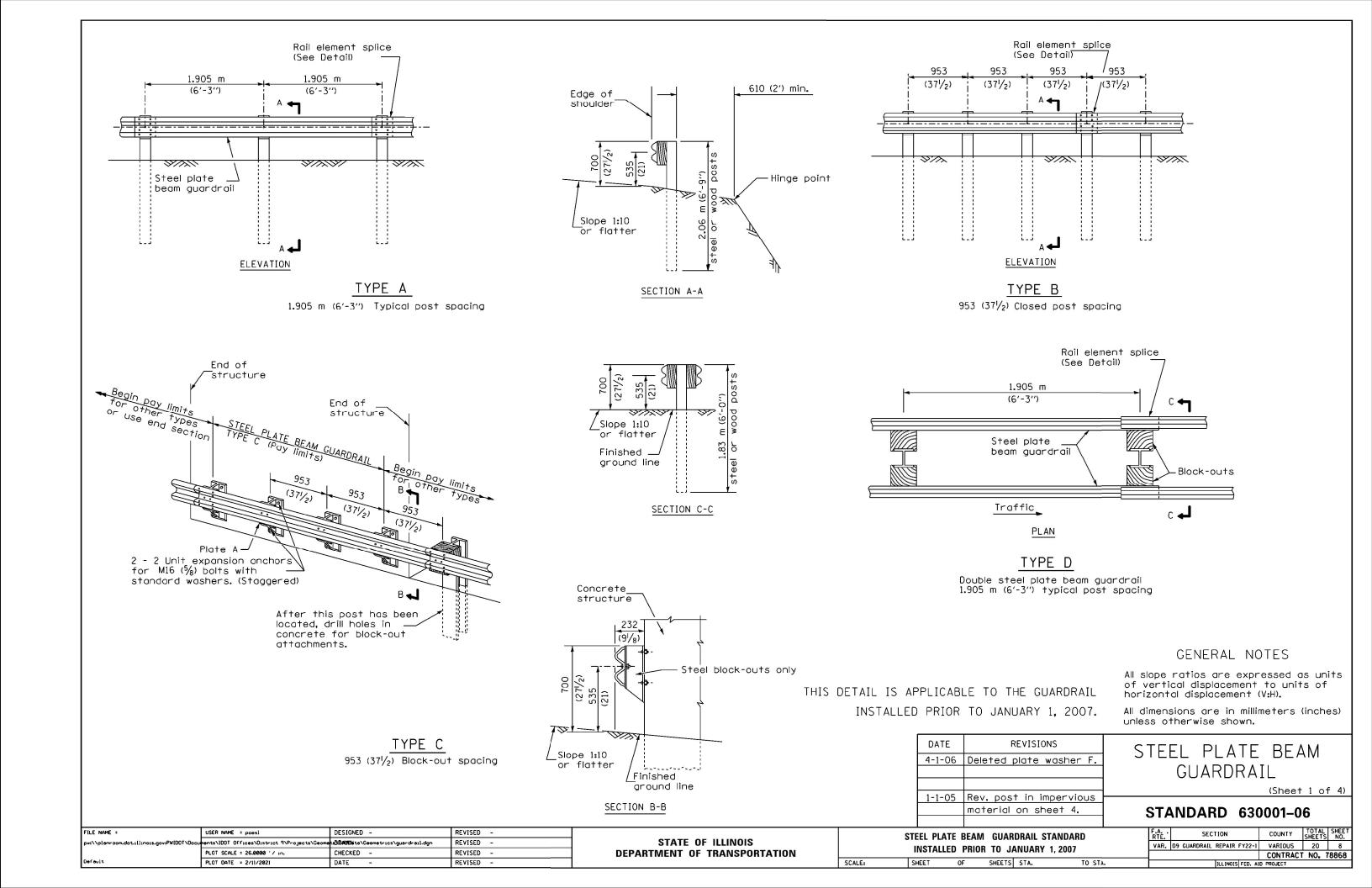
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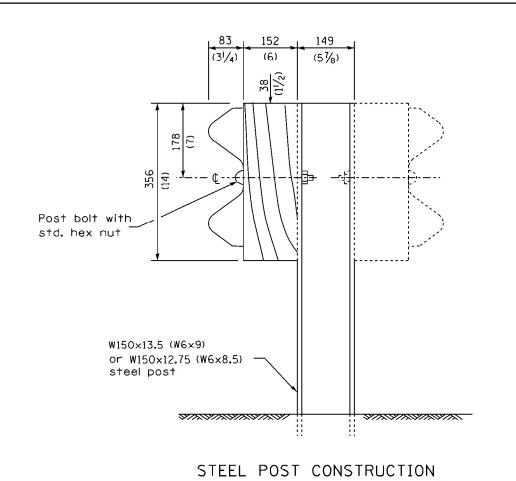
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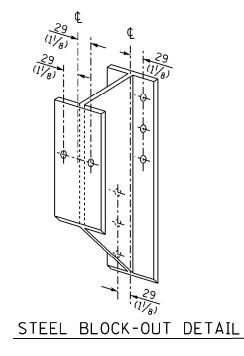
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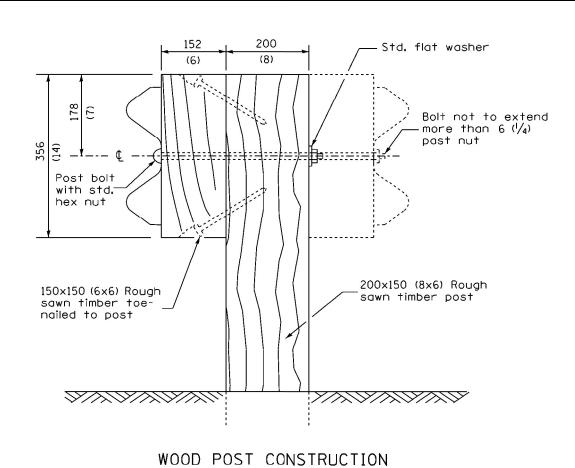
VARIOUS

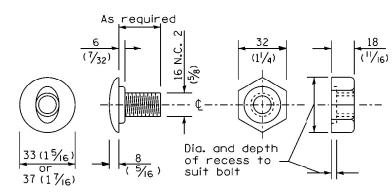
100% STATE











POST OR SPLICE BOLT & NUT

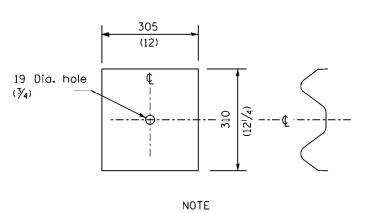


Plate A shall be placed between rail element and block-out at nonsplice mounting points only when steel block-outs are used.

PLATE A

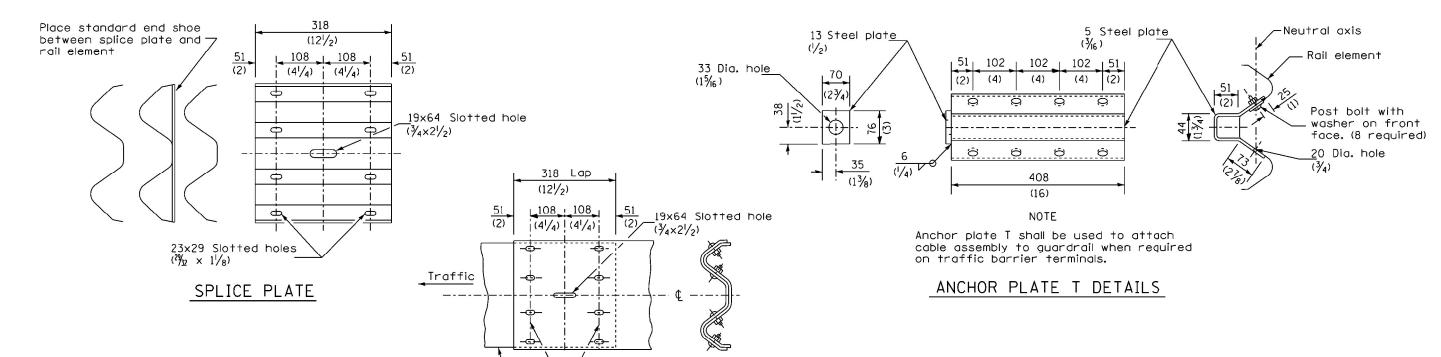
THIS DETAIL IS APPLICABLE TO THE GUARDRAIL INSTALLED PRIOR TO JANUARY 1, 2007.

STEEL PLATE BEAM GUARDRAIL

(Sheet 2 of 4)

STANDARD 630001-06

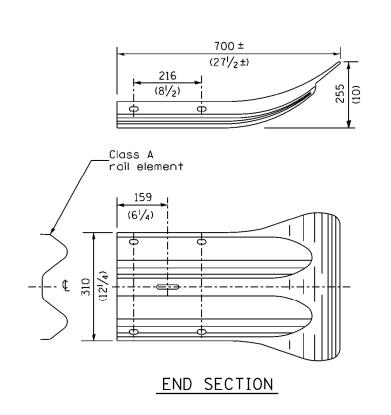
FILE NAME =	USER NAME = poesl	DESIGNED -	REVISED -			STEEL PLA	TF RFAI	VI GIIARD	RAIL STAND	ARD.	F.A.	SECTION	COUNTY	TOTA	AL SHE	ξĒΤ
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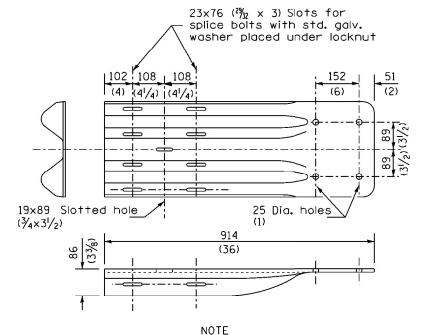


 $23\times29~(^2)_{32}~\times~1^{1}/_{8})$ Slotted Tholes for M16 $(^{5}/_{8})$ splice bolts

RAIL ELEMENT SPLICE

Class A rail element



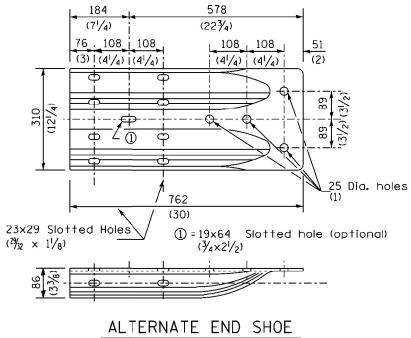


When end shoe is attached to a bridge parapet which has an expansion joint, the bolts shall be provided with a locknut or double nut and shall be tightened only to a point that will allow guardrail movement.

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



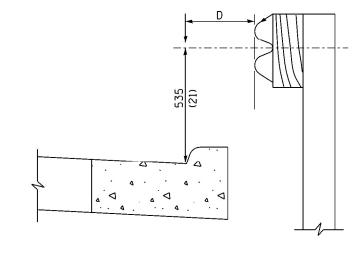
THIS DETAIL IS APPLICABLE TO THE GUARDRAIL INSTALLED PRIOR TO JANUARY 1, 2007.

STEEL PLATE BEAM GUARDRAIL

(Sheet 3 of 4)

STANDARD	630001-06
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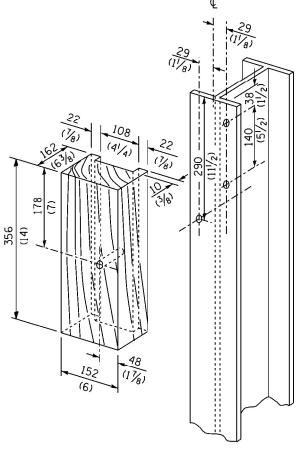


Note:

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

GUARDRAIL PLACED BEHIND CURB

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



WOOD BLOCK-OUT AND STEEL POST DETAILS

_Aggregate backfill (CA 11) Finished ground line Ledge Drilled Hole -Ledge line is top of rock ledge or hard slag fill.

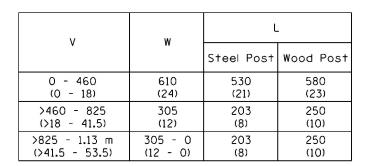
Optional -round hole

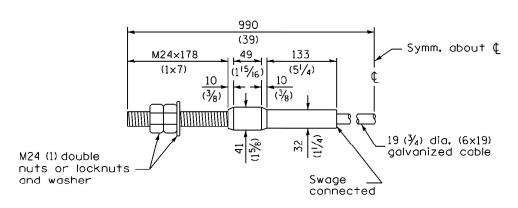
203 (8) min. (Steel post) 250(10)min. (Wood post)

PLAN

ELEVATION

FOOTING FOR POST WHEN IMPERVIOUS MATERIAL IS ENCOUNTERED





CABLE ASSEMBLY

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

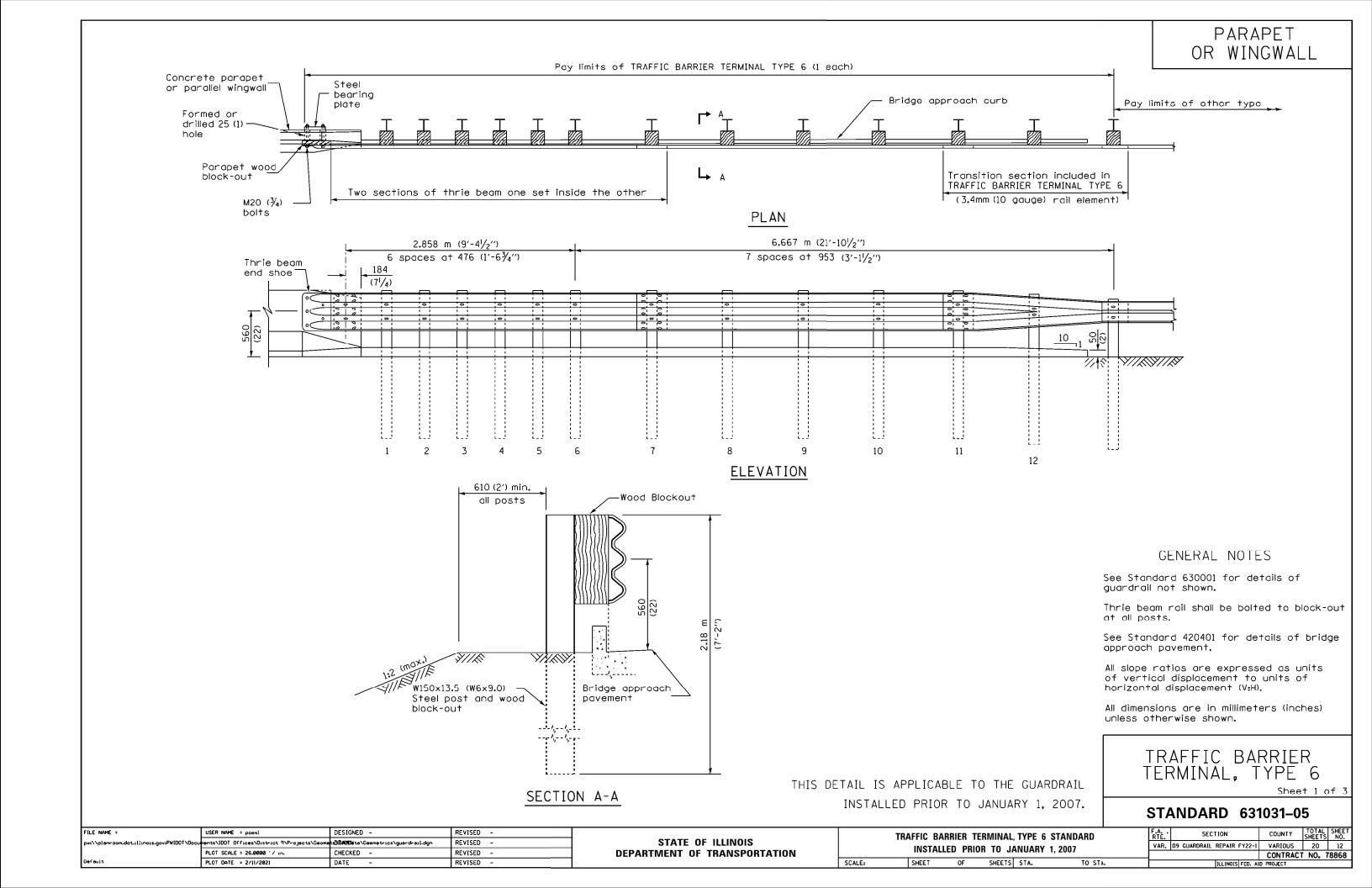
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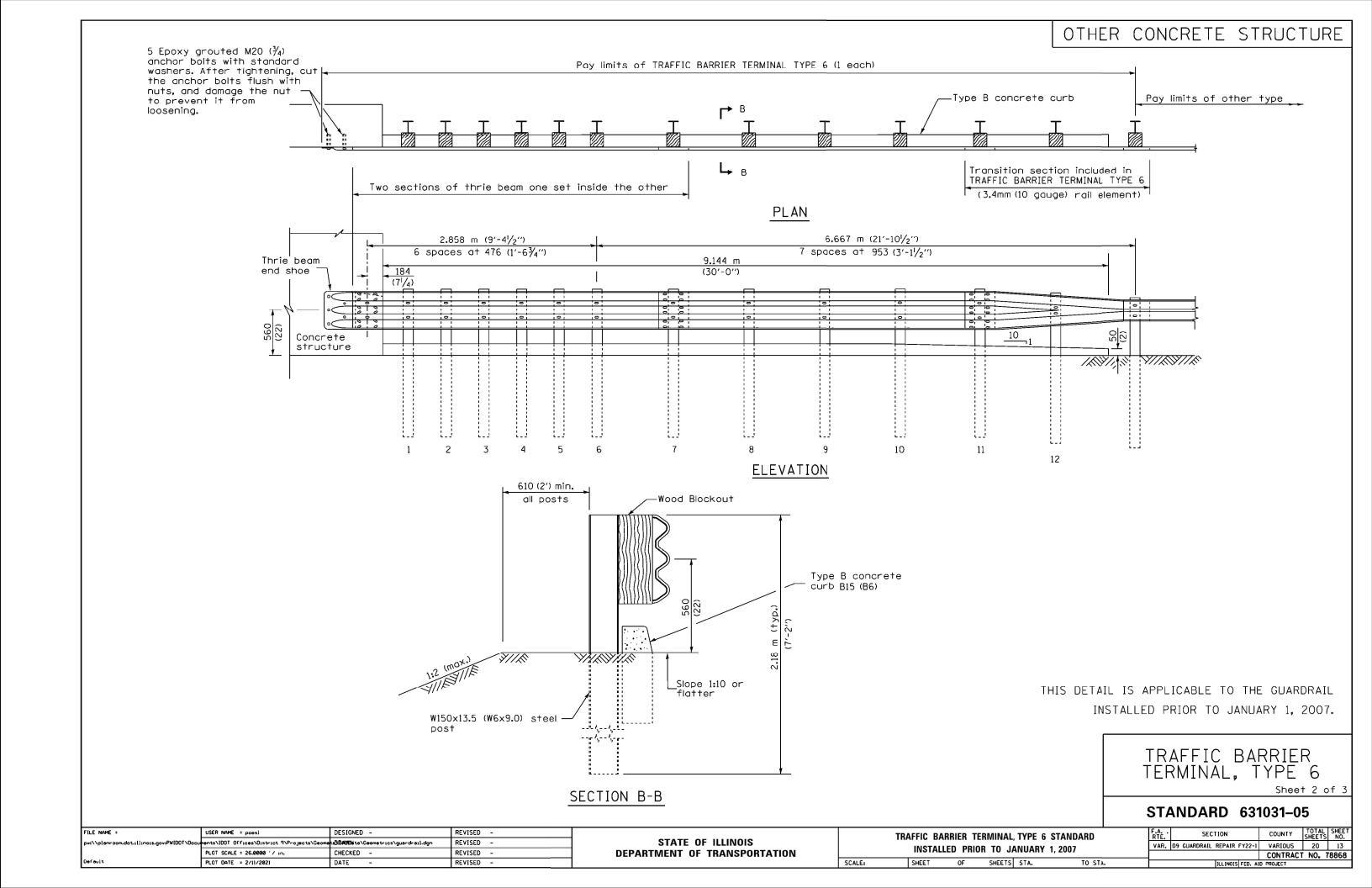
STEEL PLATE BEAM GUARDRAIL

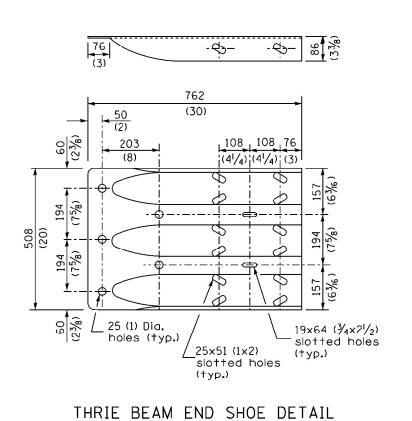
(Sheet 4 of 4)

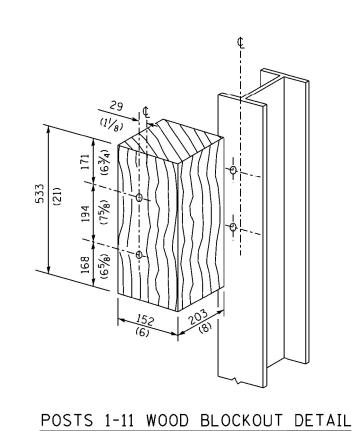
STANDARD 630001-06

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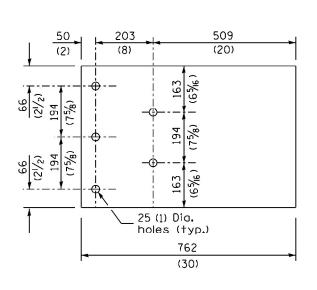


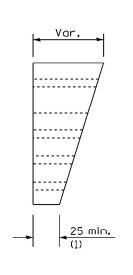


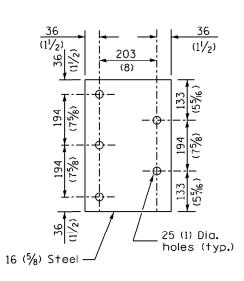




POST 12 WOOD BLOCKOUT DETAIL







PARAPET WOOD BLOCK-OUT DETAIL

PARAPET STEEL BEARING PLATE DETAIL

(5 each individual 125x125x16 (5x5x5/g) steel plates with centered 25 (1) holes may be substituted for the plate shown.)

SCALE:

THIS DETAIL IS APPLICABLE TO THE GUARDRAIL INSTALLED PRIOR TO JANUARY 1, 2007. TRAFFIC BARRIER TERMINAL, TYPE 6

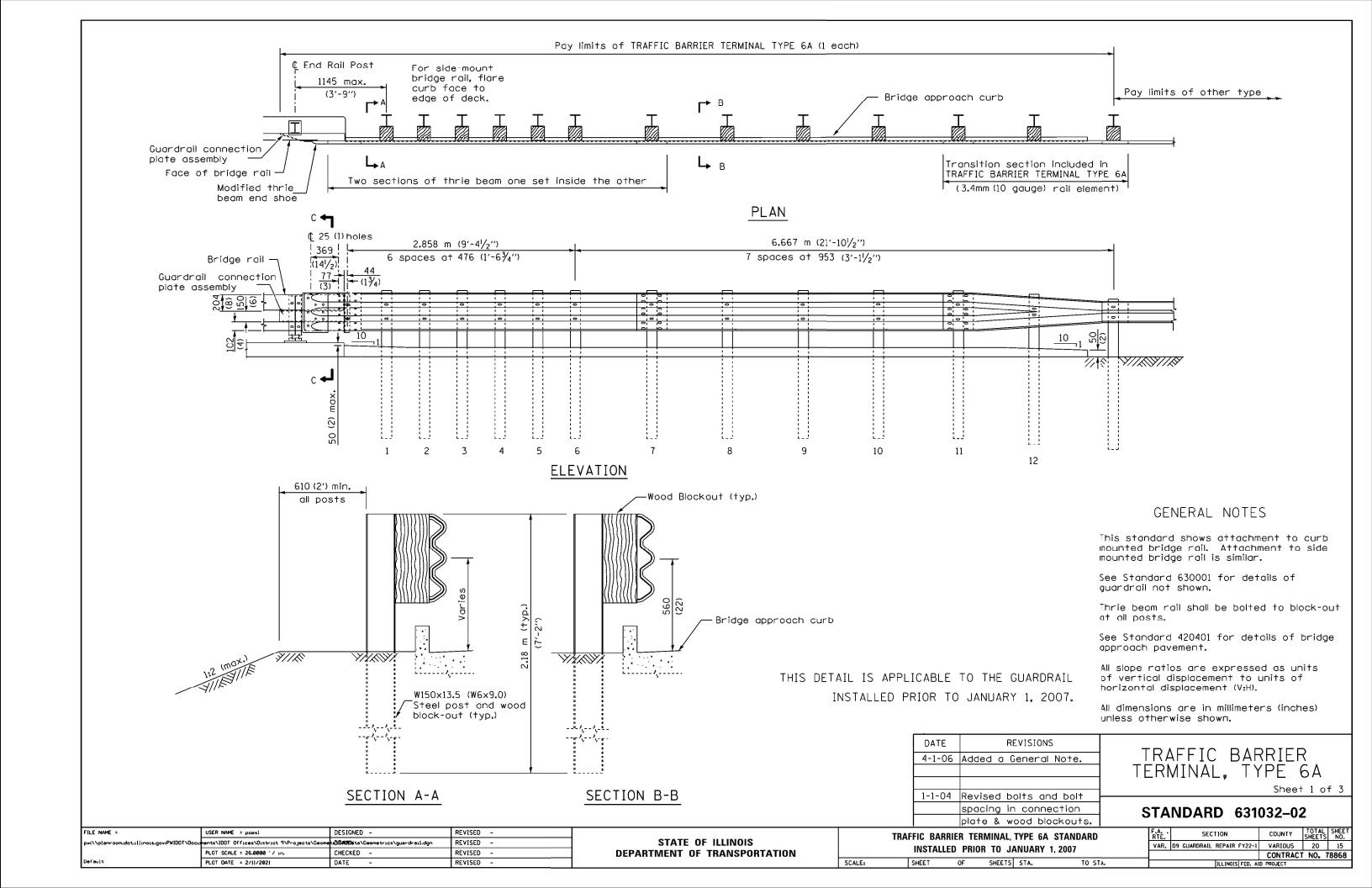
STANDARD 6	31031-05
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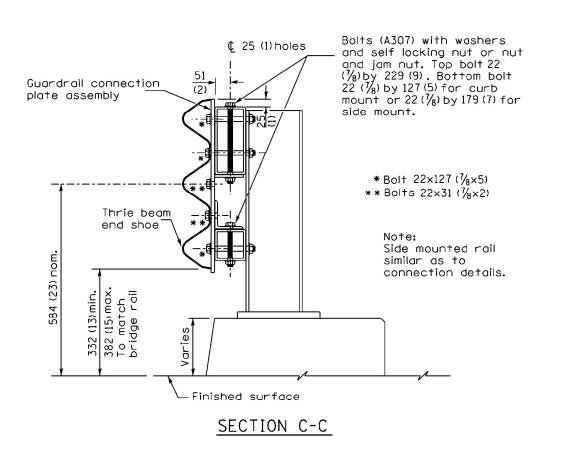
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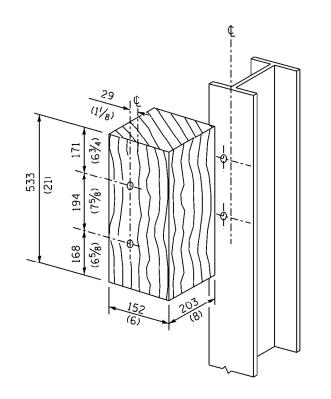
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		CONTRACT	NO. 7	8868
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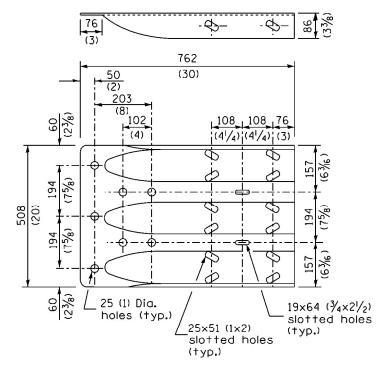




 $\frac{432}{(17)}$ $\frac{165}{(6/2)}$ $\frac{(17)}{(6/2)}$ $\frac{98}{(6/2)}$ $\frac{9}{(6/2)}$

POSTS 1-11 WOOD BLOCKOUT DETAIL

POST 12 WOOD BLOCKOUT DETAIL



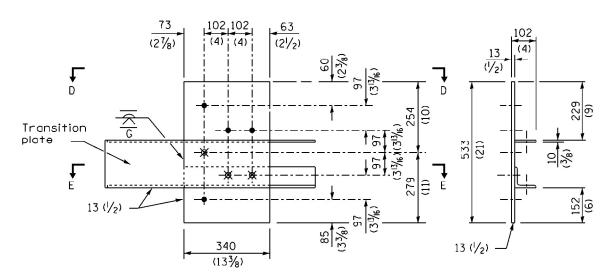
MODIFIED THRIE BEAM END SHOE DETAIL

THIS DETAIL IS APPLICABLE TO THE GUARDRAIL INSTALLED PRIOR TO JANUARY 1, 2007.

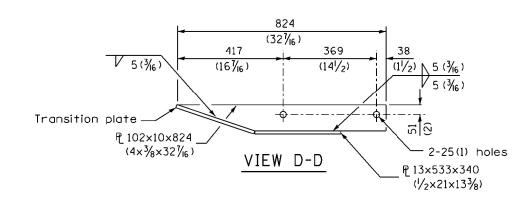
TRAFFIC BARRIER
TERMINAL, TYPE 6A
Sheet 2 of 3

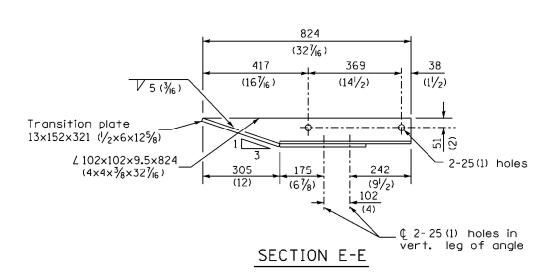
STANDARD 631032-02

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GUARDRAIL CONNECTION PLATE ASSEMBLY DETAILS (Mirror for opposite end)

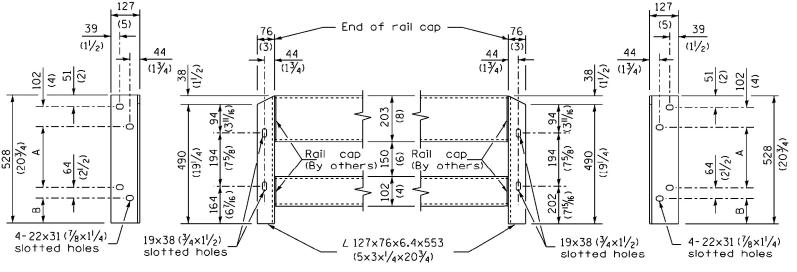




- $\(\)$ 4-25(1) holes for 22($\)$ 8) H.S. bolts and nuts
- \bowtie Drill and tap 3 holes for 22($\frac{7}{8}$) H.S. bolts.

LEGEND

Dimensions	Α	В			
For Curb	222	89			
Mounted Rail	(8¾)	(3 ¹ / ₂)			
For Side	247	64			
Mounted Rail	(9¾)	(2 ¹ / ₂)			



CONNECTION ANGLES

(Install angles to rail caps using 19 $(\frac{5}{8})$ washers and self-locking nuts or nuts and jam nuts, to be provided by others)

THIS DETAIL IS APPLICABLE TO THE GUARDRAIL INSTALLED PRIOR TO JANUARY 1, 2007.

TRAFFIC BARRIER TERMINAL, TYPE 6A

STANDARD 631032-02

Sheet 3 of 3

APPROACH END VIEW

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DEPARTURE END VIEW

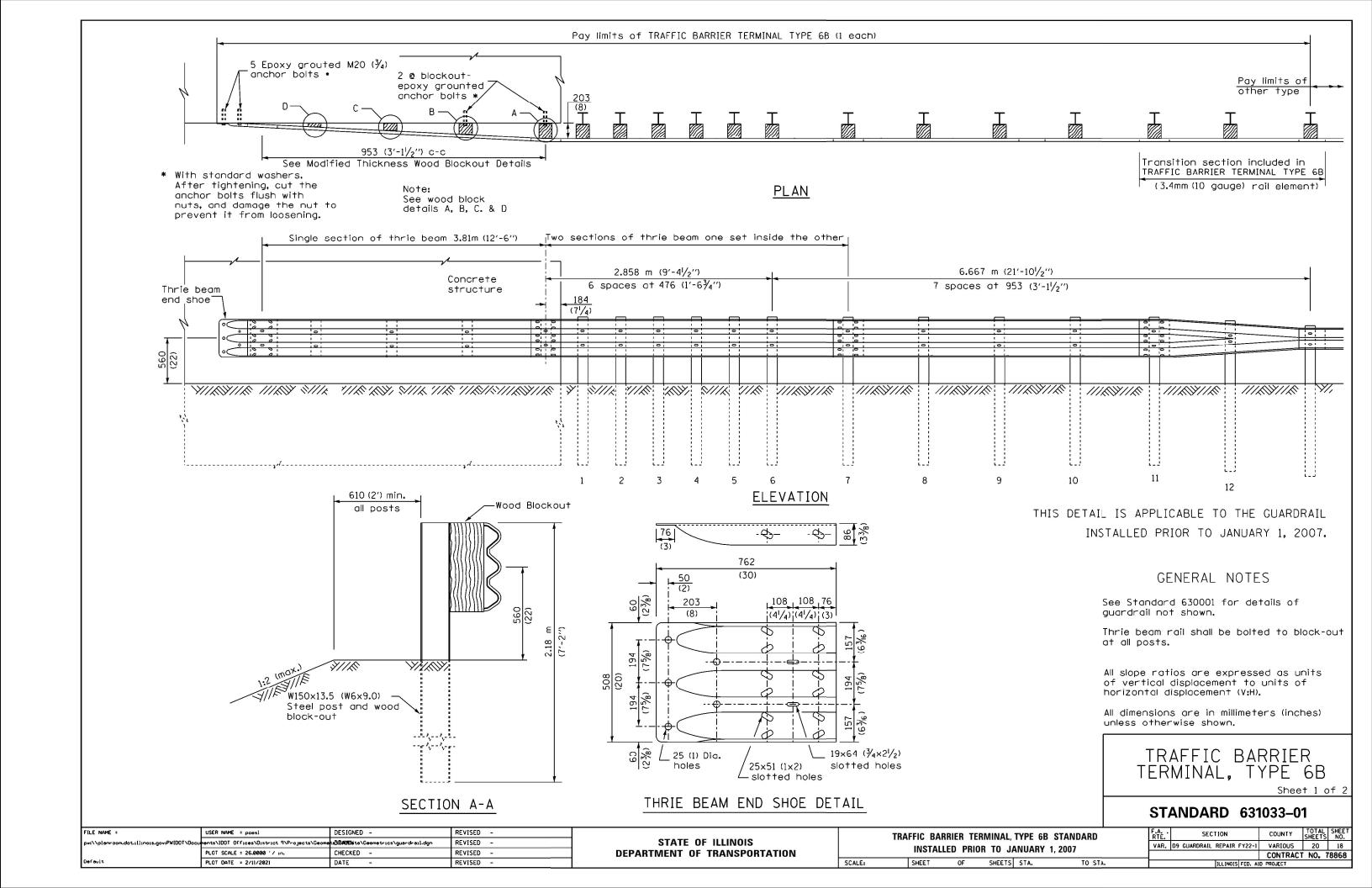
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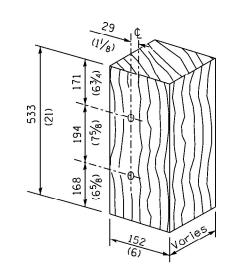
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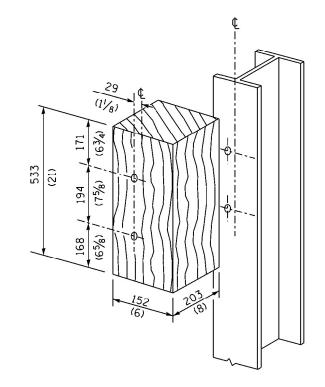
VAR. D9 GUARDRAIL REPAIR FY22-1 VARIOUS 20 17

CONTRACT NO. 78868

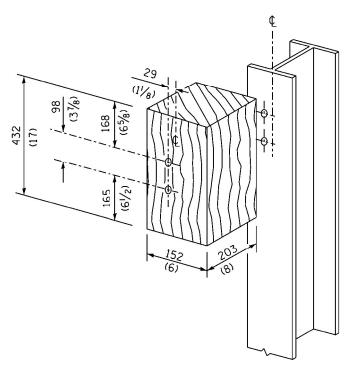




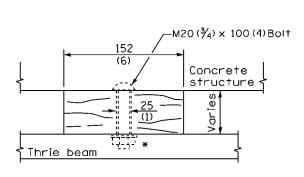
MODIFIED THICKNESS WOOD BLOCKOUT DETAIL



POSTS 1-11 WOOD BLOCKOUT DETAIL

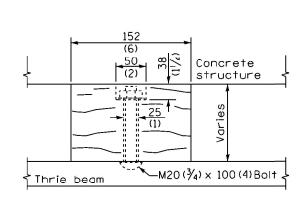


POST 12 WOOD BLOCKOUT DETAIL

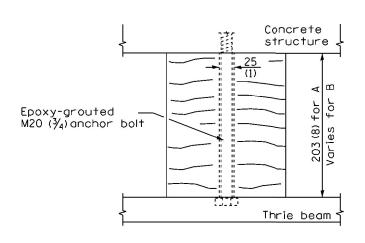


WOOD BLOCKOUT D

Bolt to thrie beam with M20(¾) by 100(4) bolt, washer & nut. Reverse direction of insertion. *



WOOD BLOCKOUT C



WOOD BLOCKOUT A & B

THIS DETAIL IS APPLICABLE TO THE GUARDRAIL INSTALLED PRIOR TO JANUARY 1, 2007.

TRAFFIC BARRIER TERMINAL, TYPE 6B

Sheet 2 of 2

STANDARD 631033-01

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