01-19-2024 LETTING ITEM 116

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- 7 SAMPLE WORK FORM
- 8 EXISTING V.A.T. SYSTEM
- 9 PROPOSED C.A.T. SYSTEM
- 10-12 EXISTING TRAFFIC BARRIER, TERMINAL TYPE 3 & TYPE 3A
- 13-14 EXISTING TYPE 4 TERMINAL
- 15-17 EXISTING CABLE MEDIAN BARRIER (CABLE ROAD GUARD)
- 18 EXISTING GIBRALTAR CABLE BARRIER DETAIL
- 19 EXISTING TRAFFIC BARRIER TERMINAL TYPE 8
- 20 EXISTING TRAFFIC BARRIER TERMINAL TYPE 9
- 21-23 EXISTING TUBULAR THRIE BEAM RETROFIT RAIL FOR BRIDGES
- 24-27 STEEL PLATE BEAM GUARDRAIL, TYPE A, 6.75 FOOT POSTS

STANDARD 630011-D4

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

PROPOSED HIGHWAY PLANS

VARIOUS ROUTES
D4 GUARDRAIL REPAIRS 2024 – MCHD
VARIOUS COUNTIES
C-94-009-24

HIGHWAY STANDARDS:

630001- 13	631046-04	701201-05	701456-05
630101-11	635001-02	701301-04	701601-09
630301-09	664001-02	701400-12	701606-10
631006-08	665001-02	701406-13	701701-10
631011-10	701008-05	701411-09	701901-09
631026-06	701011-04	701428-01	BLR-23-04
631031-18	701101-05		

DISTRICT STANDARDS:

630011-D4



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

JULIE. JUINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-802-0123 OR 811

PROJECT ENGINEER BEN TELLEFSON (309) 671-3333
PROJECT MANAGER BEN TELLEFSON (309) 671-3333
CATALOG NO. 036356-00D
CONTRACT NO. 68H9O

MERCER

PUTNAM

STARR

MARSH

WOODFORD

PEORIA

TAZEWELL

GROSS LENGTH = NA

D-94-009-24



DESCRIPTION: GUARDRAIL AND CABLE RAIL REPAIRS AT VARIOUS LOCATIONS IN DISTRICT 4

	STATE OF ILLINOIS
	DEPARTMENT OF TRANSPORTATION
TIMBU	TED October 73 20 23
	From G. James
	REGIONAL ENGINEER
	December 8, 2023
	ENGINEER OF DESIGN AND ENVIRONMENT
	December 8, 2023
	Stude Margia
	DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

COMMITMENTS

NO COMMITMENTS HAVE BEEN MADE FOR THIS PROJECT.

TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL:

ANY TYPE 1, 1A, OR 1B TERMINAL REQUIRING REPLACEMENT UNDER THIS CONTRACT SHALL BE REPLACED BY A TYPE 1 (SPECIAL) TERMINAL AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER FORTY-EIGHT (48) HOURS PRIOR TO PERFORMING WORK.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOB SPECIFIC NOTES AND COMMITMENTS

| RIE | SECTION |
| VAR | D4 GUARDRAIL REF

MODEL: Default

				CONSTRUCTION CODE		
				VARIOUS	VARIOUS	VARIOUS
				COUNTIES	COUNTIES	COUNTIES
			TOTAL	100% STATE	100% STATE	100% STATE
ITEM NO.	DESCRIPTION	UNIT	QUANTITY	MCHD	CONTRACT MAINT	
				0021	0021	0021
63000001	SPBGR TY A 6FT POSTS	FOOT	2165	315	1400	450
63000003	SPBGR TY A 9FT POSTS	FOOT	605	45	460	100
63100045	TRAF BAR TERM T2	EACH	34	25	5	4
_						
63100070	TRAF BAR TERM T5	EACH	5	4	0	1
	-					
63100085	TRAF BAR TERM T6	EACH	3	2	0	1
63100101	TRAF BAR TERM T9	EACH	5	4	0	1
		-				
63100105	TRAF BAR TERM T10	EACH	5	4	0	1
	·				1	
63100115	TRAF BAR TERM T12	EACH	5	4	0	1
63100167	TR BAR TRM T1 SPL TAN	EACH	43	29	3	11
63100169	TR BAR TRM T1 SPL FLR	EACH	15	4	2	9
63200310	GUARDRAIL REMOVAL	FOOT	5055	1670	2110	1275
63400105	GUARD POSTS	EACH	22	5	0	17
			-			
64300260	IMP ATTEN FRD NAR TL3	EACH	2	0	0	2
			-			
64300320	IMP ATTEN FRD RES TL3	EACH	2	0	0	2
				-		
64300370	IMP ATTEN FRD WID TL3	EACH	2	0	0	2
2.555576	p			<u> </u>		

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STATE OF ILLINOIS					
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SUMMARY OF QUANTITIES						TIES		
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.	
VAR	D4 GUARDRAIL REPAIRS	2024	VARIOUS	27	3
		ILLINOIS	CONTRACT N	O. 68H90)

TITEM NO. DESCRIPTION UNIT TOTAL TOT						CONSTRUCTION CODE		
TFM NO. DESCRIPTION UNIT COUNTY MCHD CONTINUE 100% STATE	_				VARIOUS	VARIOUS	VARIOUS	
TEM NO. DESCRIPTION UNIT QUANTITY MOLID CONTEXT MAINT ODD1					COUNTIES	COUNTIES	COUNTIES	
64300450 IMPATTEN NRD TL3				TOTAL	100% STATE	100% STATE	100% STATE	
64300450 IMPATTEN NRD TL3	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	MCHD	CONTRACT MAINT		
G4300770 MP ATTEN SU NAR TL3					0021	0021	0021	
G4300770 MP ATTEN SU NAR TL3	64300450	IMP ATTEN NRD TL3	EACH	4	3	0	1	
FOOT 205 5 100 100								
FOOT 205 5 100								
FOOT 524 324 100 100	64300770	IMP ATTEN SU NAR TL3	EACH	2	0	0	2	
FOOT 524 324 100 100								
FOOT 524 324 100 100	66400105	CHIK FENCE 4	FOOT	205	5	100	100	
FOOT SOO O O SOO	-							
FOOT SOO O O SOO								
72501000 TERMINAL MARKER - DA EACH 47 25 10 12 78200005 GRDRAIL REF TYPE A EACH 41 13 9 19 X0301372 REPR/UPGR EX VAT-CAT EACH 5 4 0 1 X6300210 GUARDRAIL BLOCKS EACH 216 126 30 60 X6300215 RAIL ELEMENT PLATES EACH 85 54 16 15	66400305	CH LK FENCE 6	FOOT	524	324	100	100	
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78200005 GRDRAIL REF TYPE A EACH 41 13 9 19 X0301372 REPR/UPGR EX VAT-CAT EACH 5 4 0 1 X6300210 GUARDRAIL BLOCKS EACH 216 126 30 60 X6300215 RAIL ELEMENT PLATES EACH 85 54 16 15	00300103	WOV WILINGE 4	1001	300	0		300	
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78200005 GRDRAIL REF TYPE A EACH 41 13 9 19 X0301372 REPR/UPGR EX VAT-CAT EACH 5 4 0 1 X6300210 GUARDRAIL BLOCKS EACH 216 126 30 60 X6300215 RAIL ELEMENT PLATES EACH 85 54 16 15			_					
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X6300210 GUARDRAIL BLOCKS EACH 216 126 30 60 X6300215 RAIL ELEMENT PLATES EACH 85 54 16 15								
X6300215 RAIL ELEMENT PLATES EACH 85 54 16 15	X0301372	REPR/UPGR EX VAT-CAT	EACH	5	4	0	1	
X6300215 RAIL ELEMENT PLATES EACH 85 54 16 15								
X6300215 RAIL ELEMENT PLATES EACH 85 54 16 15	V6200240	CHARDRAIL DI OCKC	EACH	24.6	426	20	60	
	X6300210	GUARDRAIL BLOCKS	LACIT	216	126	30	60	
ASSOCIATION TO THE PROPERTY OF								
	X6300215	RAIL ELEMENT PLATES	EACH	85	54	16	15	
VCCCCCCC CTTFU DOSTS								
	Vicanaga		EACH	100				
X6300230 STEEL POSTS EACH 136 81 15 40	X6300230	STEEL POSTS	EACH	136	81	15	40	
X6330900 VERT ADJ OF GUARDRAIL FOOT 440 200 120 120	X6330900	VERT ADJ OF GUARDRAIL	FOOT	440	200	120	120	
				_				
FOOT			FOOT	:				
X6331101 TUBULAR THRIE BEAM FOOT 216 126 30 60	X6331101	TUBULAR THRIE BEAM	FUUT	216	126	30	60	
				-				
X6331110 STEEL POSTS SPECIAL EACH 8 4 2 2	X6331110	STEEL POSTS SPECIAL	EACH	8	4	2	2	
					·	_	_	
X6360123 REP CABLE RD GUARD 3S FOOT 45 0 0 45	X6360123	REP CABLE RD GUARD 3S	FOOT	45	0	0	45	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SHEET 1 OF 4 SHEETS! STA. TO STA.

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				COUNTIES	COUNTIES	COUNTIES
			TOTAL	100% STATE	100% STATE	100% STATE
ITEM NO.	DESCRIPTION	UNIT	QUANTITY	MCHD	CONTRACT MAINT	
				0021	0021	0021
X6432213	REPR IMP ATTN FRW TL3	EACH	1	1	0	0
VC422222		54611				
X6432223	RP IMP ATT FRN TL3	EACH	3	1	0	2
X6432233	REPR IMP ATTN SUN TL3	EACH	1	0	0	1
_						
V6440120	DED LITE (CIRRALTAR)	гоот	450	0	0	450
X6440130	REP HTC (GIBRALTAR)	FOOT	450	0	0	450
X6440131	R HT TERM (GIBRALTAR)	EACH	2	0	0	2
X6440134	R&R POSTS (GIBRALTAR)	EACH	34	0	0	34
X0440134	NAN FOSTS (GIDNALTAN)	EACH	34	0	0	34
		-				
X6440135	REP LK PL (GIBRALTAR)	EACH	90	0	0	90
					I I	
X6440136	REP HAIRP (GIBRALTAR)	EACH	45	0	0	45
70440130	THE TOTAL (CIBIOLETTIC)	EACH	73			-13
X6640502	CHAIN LINK FENCE POST	EACH	13	5	4	4
X7010216	TRAF CONT & PROT SPL	L SUM	1	0.4	0.2	0.4
			_		0.2	-
		FACIL				
Z0008760	EMER WORK CALL OUT	EACH	14	13	0	1
Z0020210	PULL POST ARRANGEMENT	EACH	8	4	2	2
Z0051400	DEAL O DESET DOCTO	EACH	100		10	
20031400	REM & RESET POSTS	LACH	103	63	10	30
			-			
Z0052410	REPAIR TRBT T1 SP TAN	EACH	17	16	0	1
Z0052415	DEDAID TOOT TA SD ELD	EACH	ļ	4	0	1
	REPAIR TRBT T1 SP FLR	LACIT	5	4	0	1

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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SH N	
VAR	D4 GUARDRAIL REPAIRS	VARIOUS	27		
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ILLER TO DESPRITE BAR TERM TS				1			
DESCRIPTION					COUNTIES		COUNTIES
MEPART TR BART TERMS T2				TOTAL			100% STATE
Z0052900 REPAIR TR BAR TERM T2 EACH 6 5 0 1	ITEM NO.	DESCRIPTION		QUANTITY			
Z0052700 REPAIR TR BAR TERM T3					0021	0021	0021
Z0052700 REPAIR TR BAR TERM T3	Z0052600	REPAIR TR BAR TERM T2	EACH	6	5	0	1
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

| SHEET 3 OF 4 SHEETS! STA. TO STA.

SCALE:

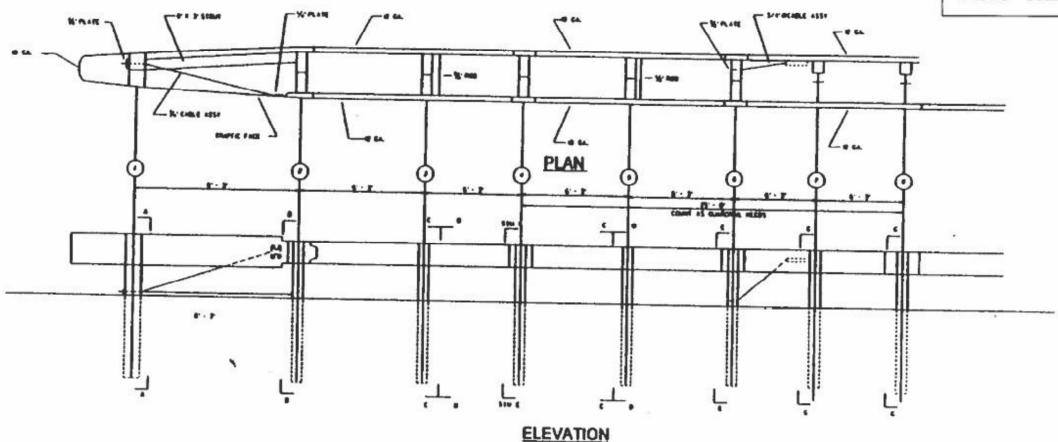
ILLINOIS DEPT OF TRANSPORTATION - DIST 4 - WORK ORDER TO:____ D/A: _____ MOTORIST-CAUSED DAMAGE REPAIR FY JOB NUM: CONTRACT NUM: CLAIM NUM:_____ ROAD: _____LOCATION: ____COUNTY: CODE NUM ITEM UNIT OTY UNIT PRICE AMOUNT TOTAL CHARGES (This Work Order)\$ SPECIAL INSTRUCTIONS: WORK ORDER ISSUED: BY: ACCEPTED: BY: WORK ORDER COMPLETED: DATE: I/WE CERTIFY WORK HAS BEEN PERFORMED ACCORDING TO THE CONTRACT AND HEREBY REQUEST PAYMENT: BY: ACCEPTED: BY: VERIFICATION OF WORK ORDER COMPLETED: BY:

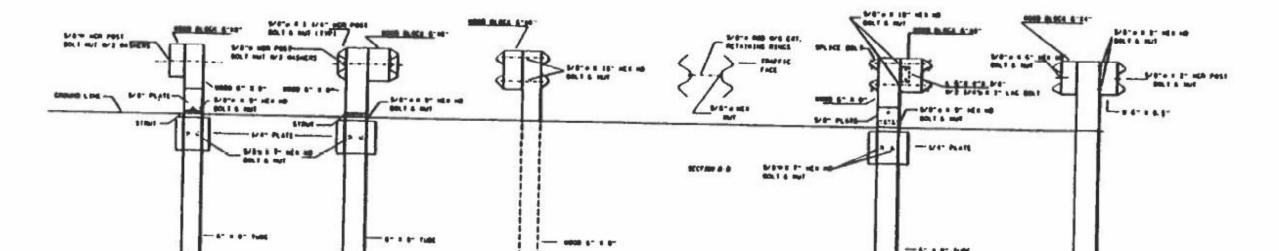
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	DRAWN _	REV[SED _	STATE OF ILLINOIS		DISTRICT 4 – SAMPLE WORK ORDER	VAR	D4 GUARDRAIL REPAIRS 2024	VARIOUS	27	7
PLOT SCALE = 1:100	CHECKED -	REV[SED _	DEPARTMENT OF TRANSPORTATION				ILLINOI	S CONTRACT N	O. 68H90	
PLOT DATE - 10/21/2022	DATE _	REV[SED _		SCALE:	SHEET 1 OF 1 SHEETS STA. TO STA.			•		$\overline{}$

DETAIL INCLUDED FOR REPAIR ONLY





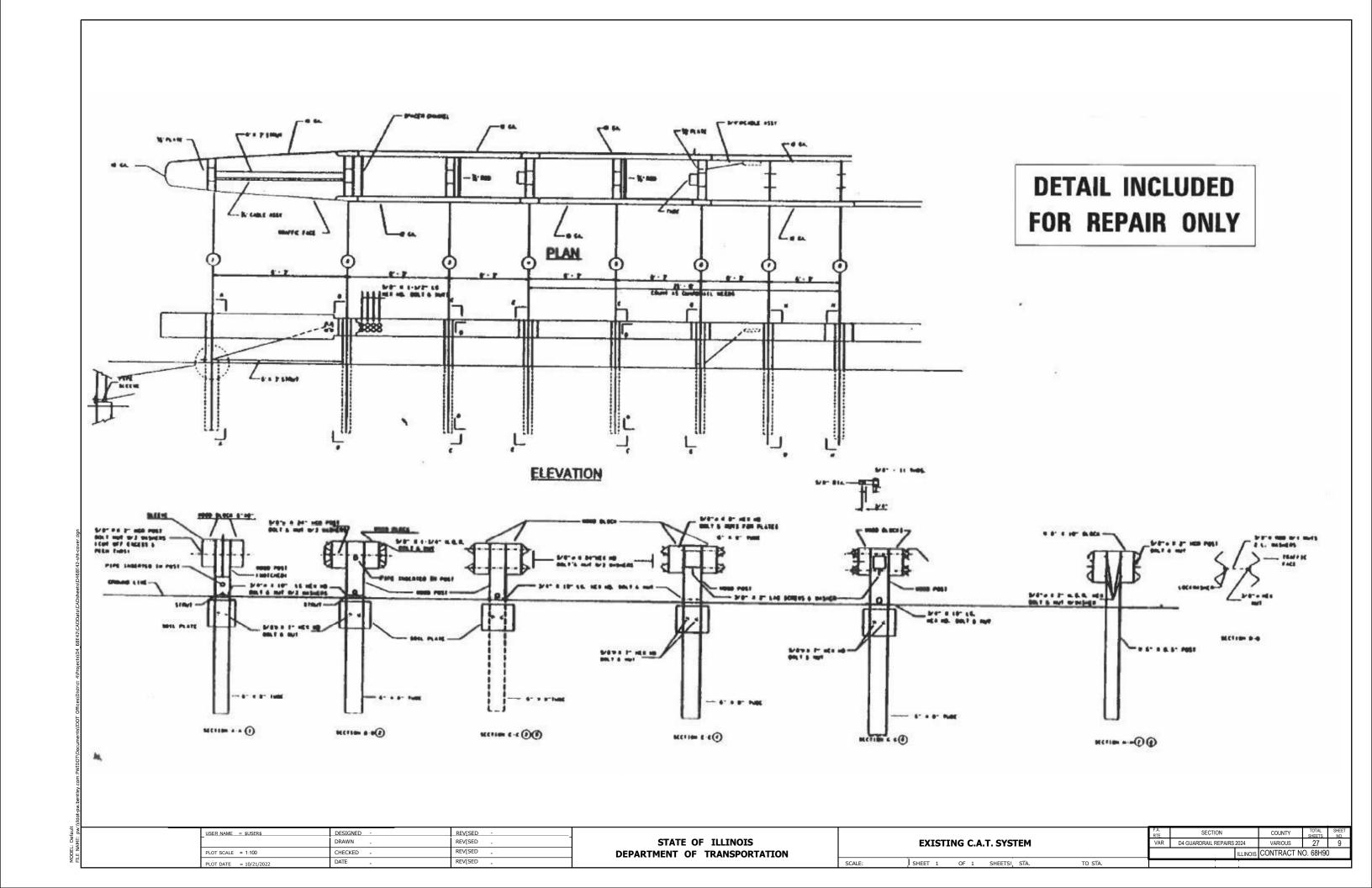
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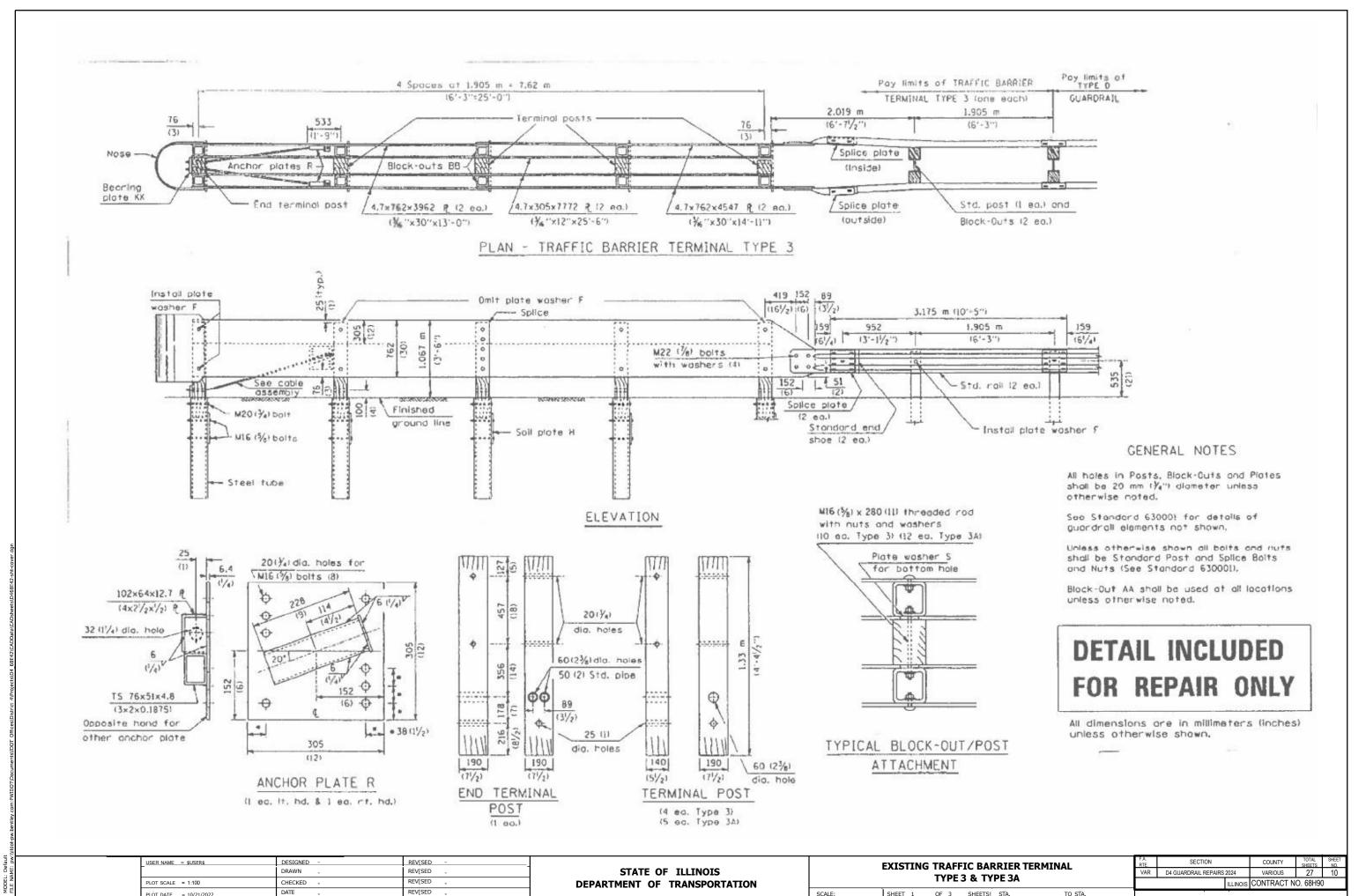
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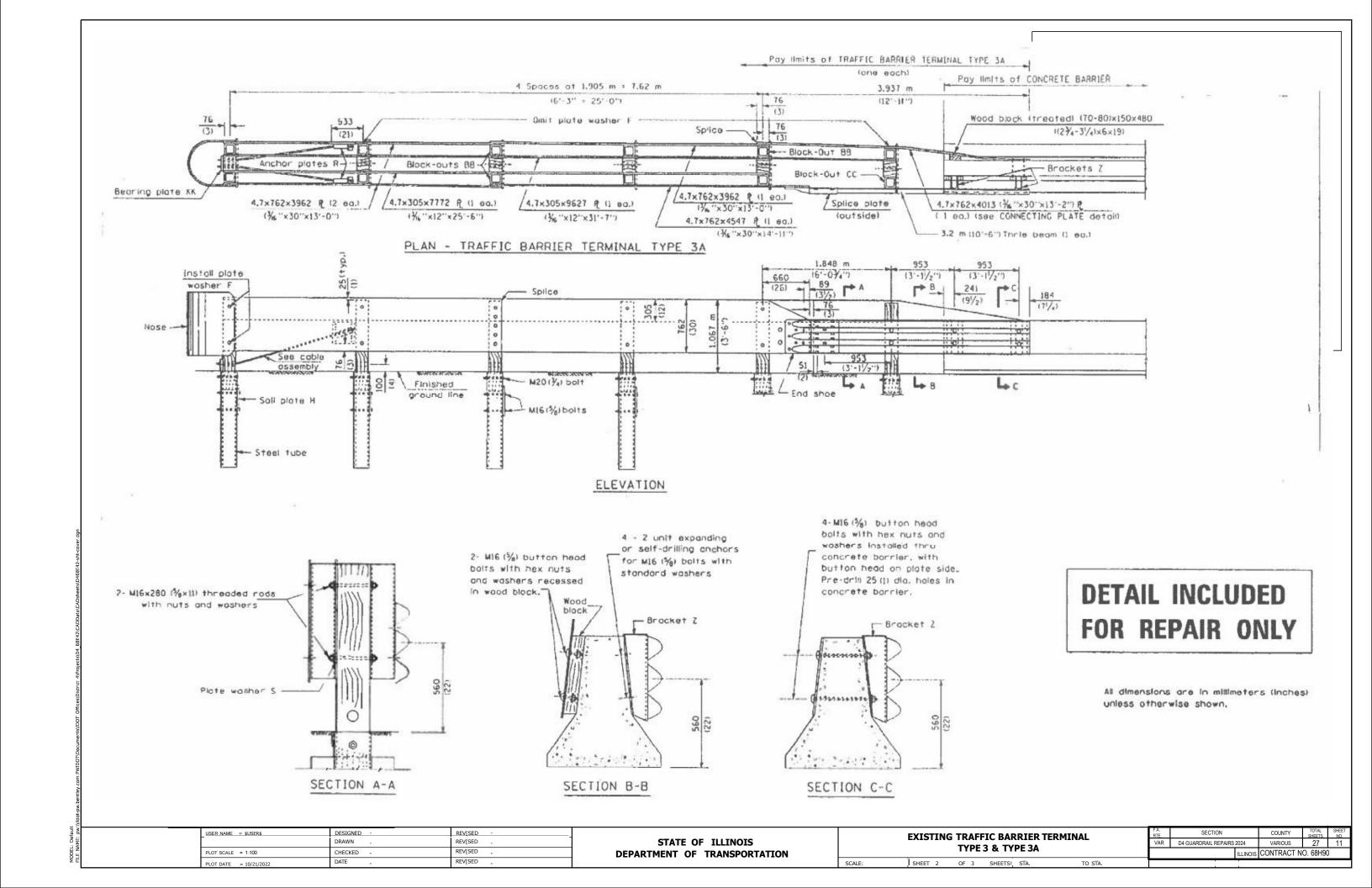
USER NAME = \$USER\$	DESIGNED -	REV[SED -					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS
	DRAWN _	REV[SED _	STATE OF ILLINOIS	EXISTING V.A.T. SYSTEM			VAR	D4 GUARDRAIL REPAIRS 2024	VARIOUS	27
PLOT SCALE = 1:100	CHECKED -	REV[SED _	DEPARTMENT OF TRANSPORTATION					ILLINOIS	CONTRACT	NO. 68H90
PLOT DATE = 10/21/2022	DATE _	REV[SED _		SCALE:	SHEET 1 OF 1 SHEETS! STA.	TO STA.		: :		

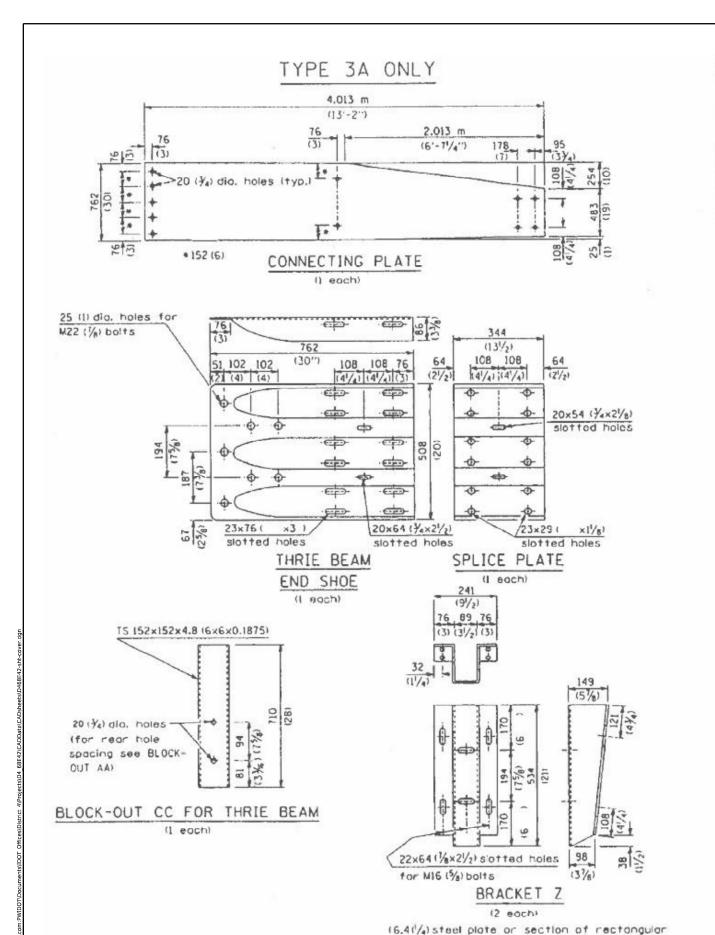
26 CT ACR & 12

MC180+ 6 6



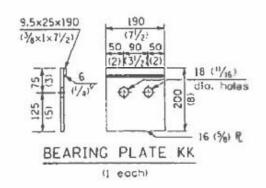


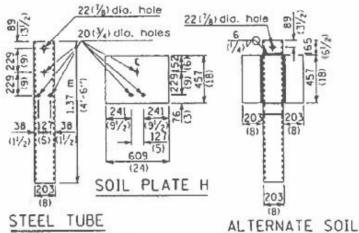




TYPE 3 & 3A

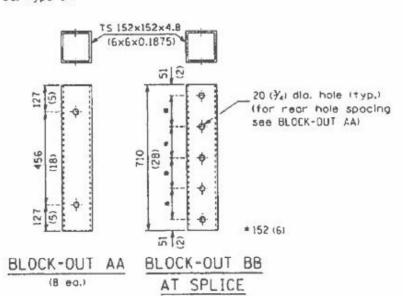
PLATE CONNECTION



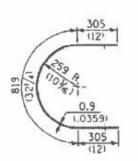


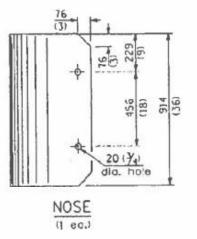
TS 203x203x4.8 (8x8x0.1875) (end terminal post) (1 eq.)

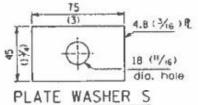
15 203x152x4.8 (8x6x0.1875) (terminal post) (4 ea. Type 3) (5 ea. Type 3A)



(2 eq. Type 3) (3 eq. Type 3A)







(10 ed. Type 3) (11 ed. Type 3A)

DETAIL INCLUDED FOR REPAIR ONLY

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

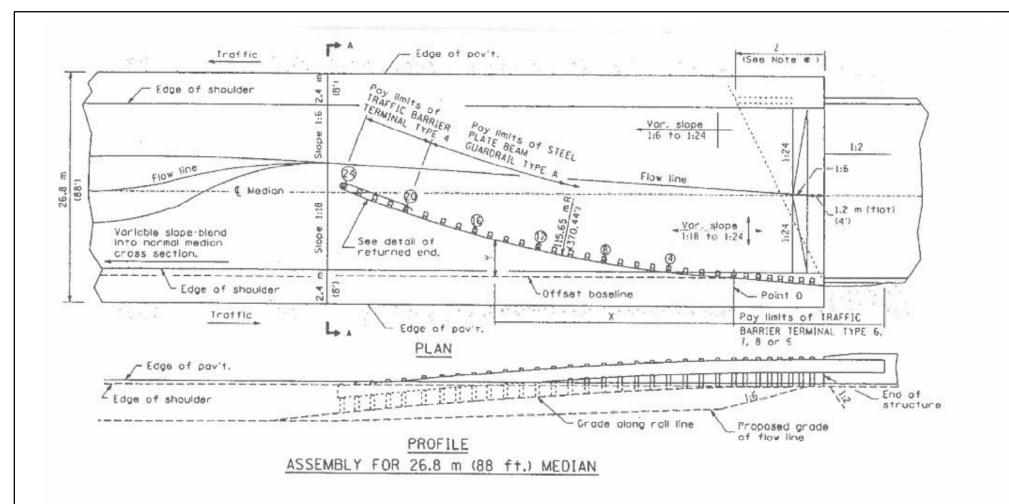
USER NAME = \$USER\$	DESIGNED	-	REV[SED	_
	DRAWN	-	REV[SED	-
PLOT SCALE = 1:100	CHECKED	-	REV[SED	-
PLOT DATE = 10/21/2022	DATE	-	REV[SED	-

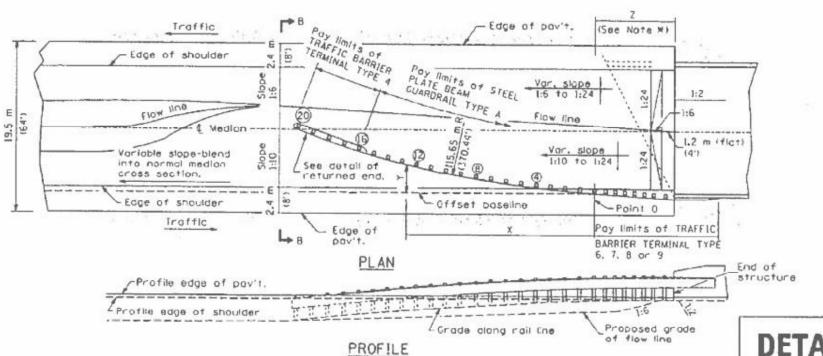
tubing with flanges welded only

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING TRAFFIC BARRIER TERMINAL
TYPE 3 & TYPE 3A

SHEET 3 OF 3 SHEETS! STA. TO STA.





ASSEMBLY FOR 19.5 m (64 ft.) MEDIAN

OFFSETS TO FACE OF RAIL DISTANCE m OFFSET POINT 0 (0) (0) 7.60 (1) 0.56 (24.93) (1.83) 1.60 15.14 (8) (49.68) (5.28) 22.60 3.16 (12) (74.16) (10.37) (16) 29,94 5.20 (98.23) (17.05) 37.13 7.71 (20) (25.3) (121.83) 44.14 10.70 (24) (144.83) (35.09)

Offsets (Y) are measured between the face of rail and the offset baseline, which is parallel to the pavement edge and passes through point 0.

The location of point 0 will vary, being dependent on structure details and the type of traffic barrier terminal utilized.

GENERAL NOTES

See Standard 630001 for details of guardrall not shown.

*For dual structures skewed right forward, the nose of the Type 4 terminal shall be positioned longitudinally away from the structure for a distance equal to dimension Z. Appropriate adjustments to the length of the Type A guardrall and its offsets (Y) shall be calculated and used. All additional lengths of guardrall shall be in increments of 3.87 m (12'-6").

For dual structures that are 90°, or skewed left forward, the length of guardrall is appropriate.

The bearing plate K shall be held in position by (2) two eight penny nails driven into the post and bent over the top of the plate.

All slopes are expressed as units of vertical displacement to units of horizontal displacement (V:H).

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

All dimensions are im millimeters (inches) unless otherwise shown,

DETAIL INCLUDED FOR REPAIR ONLY

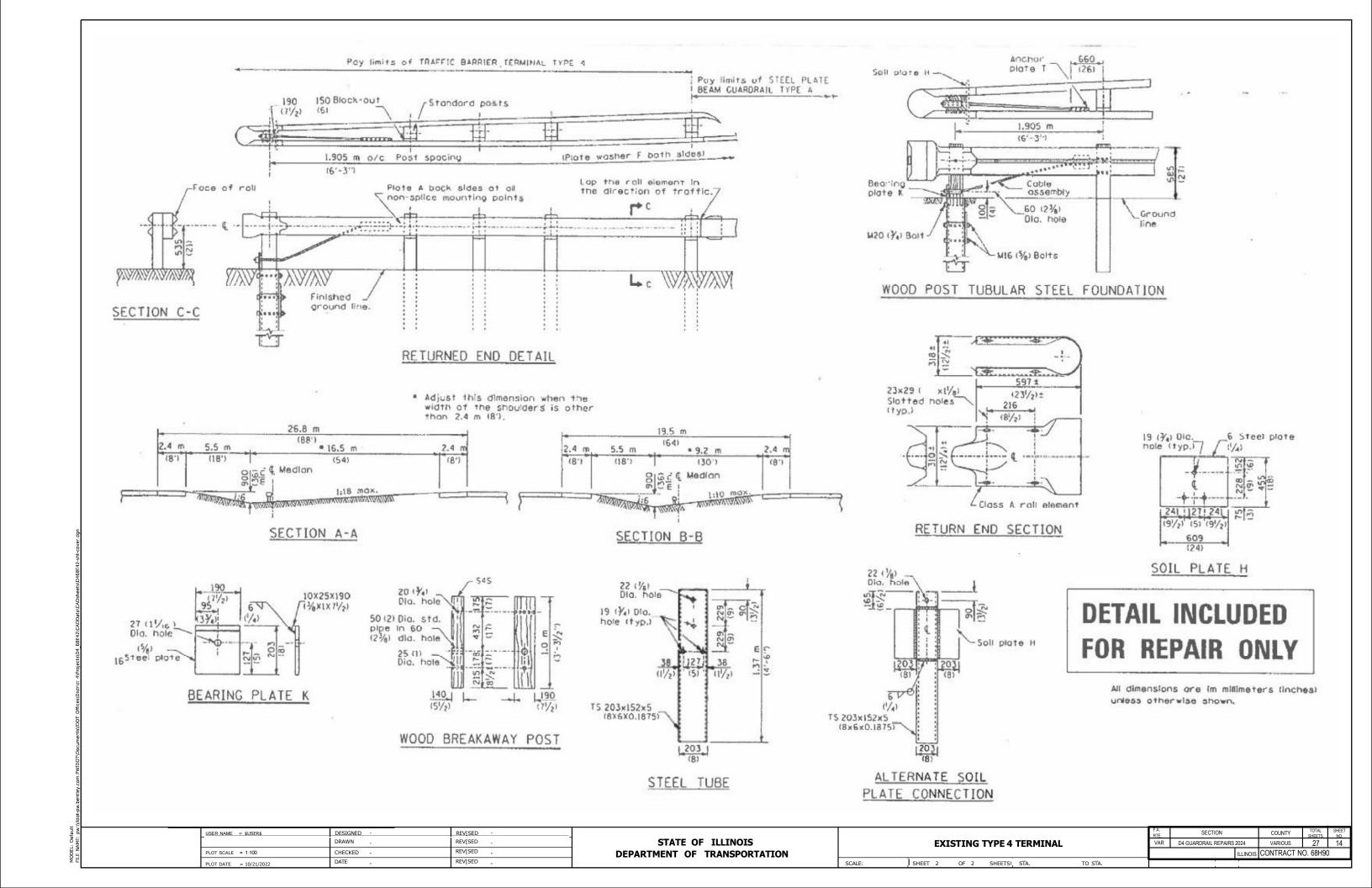
USER NAME = \$USER\$	DESIGNED -	REV[SED -	l
	DRAWN _	REV[SED _	
PLOT SCALE = 1:100	CHECKED -	REV[SED _	
PLOT DATE = 10/21/2022	DATE _	REV[SED _	

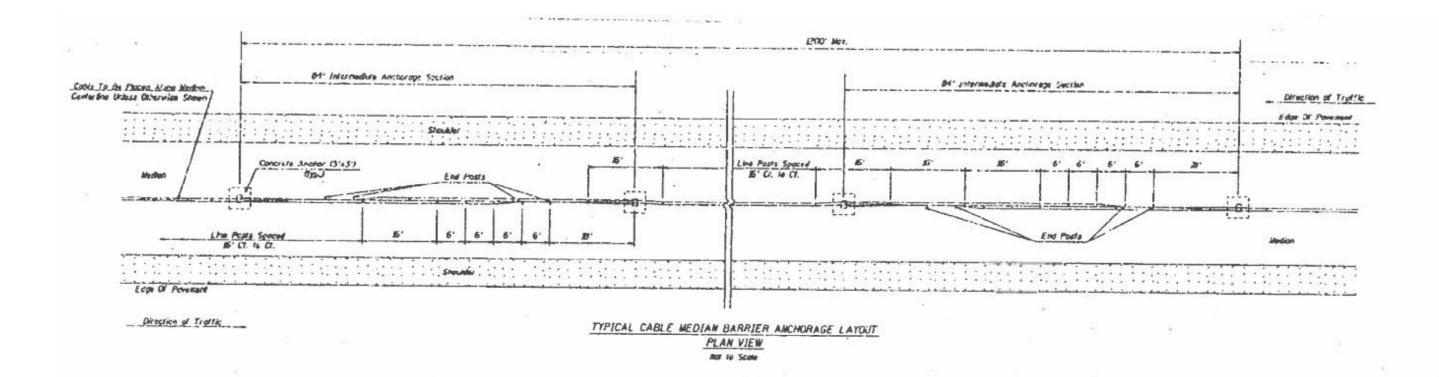
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING TYPE 4 TERMINAL	
--------------------------	--

SHEET 1 OF 2 SHEETS! STA.

F.A. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 GUARDRAIL REPAIRS	2024	VARIOUS	27	13
		ILLINOIS	CONTRACT N	O. 68H90)
	,	_			





GENERAL NOTE

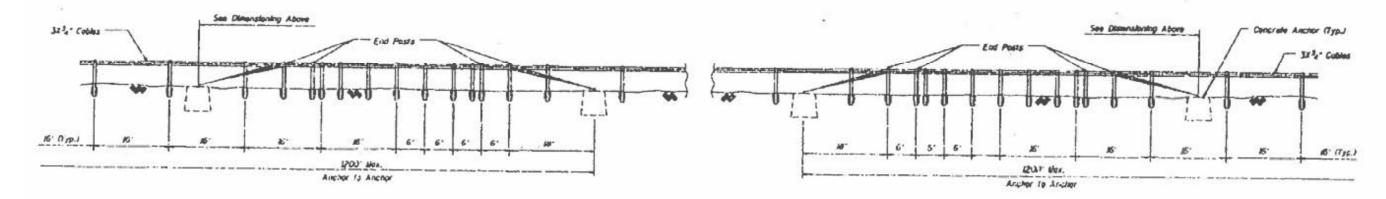
DELINEATORS: Two reflectors, placed back to back, shall be required for each definesor post.

NOTE: This work shall be done in accordance with Section 635 and no add-bonel compensation will be allowed for two single reflector units placed back to back.

The delineator shall be installed adjacent to a cable road guard poel at 80 foot centers.

Hotes

- 1. All posts are the posts unless otherwise specified.
- 2. See detail treets for Post. Compute Aichor and Assembly Ports specifications.



TYPICAL CABLE MEDIAN BARRILR ANCHORAGE LAYOUT

ELEVATION VIEW

Mat in Scale

DETAIL INCLUDED FOR REPAIR ONLY

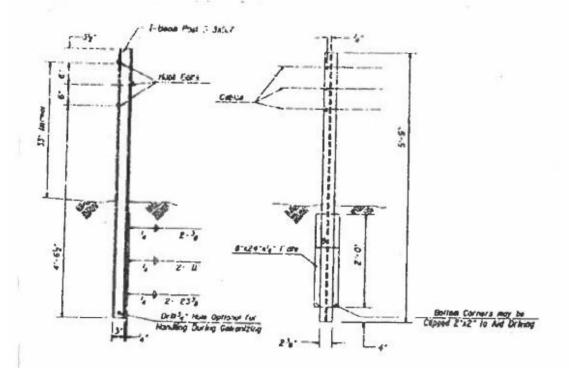
USER NAME = \$USER\$	DESIGNED -	REV[SED -
	DRAWN _	REV[SED _
PLOT SCALE = 1:100	CHECKED -	REV[SED _
PLOT DATE = 10/21/2022	DATE _	REV[SED _

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING CABLE MEDIAN BARRIER (CABLE ROAD GUARD)

E: SHEET 1 OF 3 SHEETS! STA. TO STA.

.A. ITE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 GUARDRAIL REPAIRS	2024	VARIOUS	27	15
		ILLINOIS	CONTRACT N	O. 68H90)

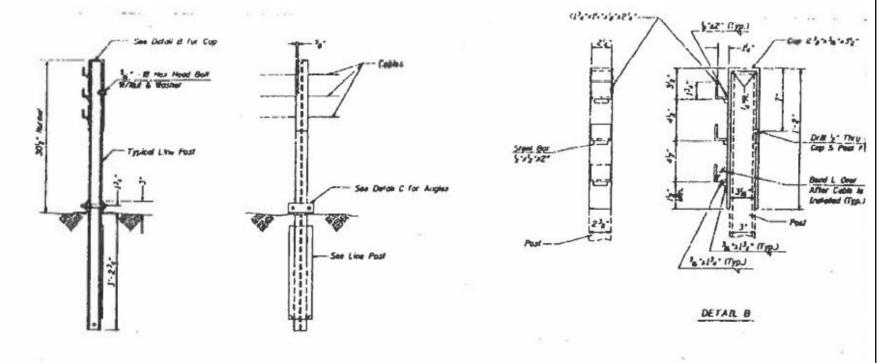


LINE POST DETAIL

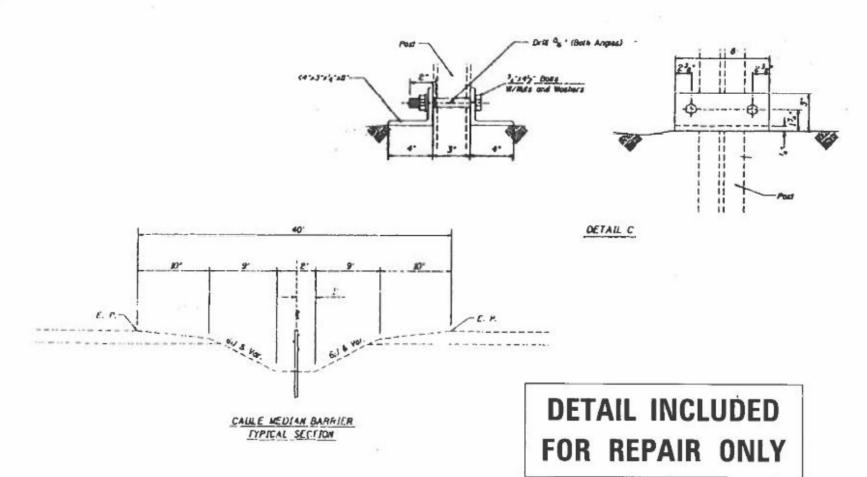
MUTES

- At all locations where the cable is connected to a cable sucket with a wisdge type connection, one wire of the wire rope shall be crimped one the base of the wedge to role it tirely in place.
- Compensating devices shall have spring constants of 450 Pounds Per Inch. plus or minus 50 Pounds Per Inch. and permit a travel of 5 Inches, plus or sinus I Inch.
- 3. Social basists shall be designed for use with the wedge detailed in these Standards.
- 4. Alternate bareware designs will be considered for approved provided their connection details, for the purpose of eldinimence substitutions, are compatible with the details of these standards and thier operating characteristics are shear to trose of the tordware shear.
- Threads of externally threaded parts shall be UNC, Class 2A tenerance (A.N.S.I. DLI), internally intended parts shall meet the dimensional requirements of ASTM A 563,
- 6. All fittings Discussing spicer) into be so designed to use the weapy seems in the wedge stellar and shall be of much section as to develope the full strength of the "a" number cobs (25,000 Lbs.).
- 7. For arrangement of spring cable and assembles (coopensating divices) and furnituative cable and assembles, the following orderta shall equip. Length of Cube Runs: For 1000's the compensating cooks and curemety on one and, one turnituative cubis and assembly on the other and of each hadvidual cubis.
 Over 600' to 3/100'. Use compensating cooks and useasibly on sech and of each hadvidual cubis.
- 8. All assembly parts and pasts are to be galacitized and no punching cutting or making will be presented after powerlating.
- 9. Dimensional tolerances and shows or implied are increased to be those consistent with the proper functioning of the part, including its appearance, and accepted word whom product
- C. Prior to these economics by the Tube the following procedurer and be used to higher the functional depending on the temperature at the high of udjustment in accordance with the following table.

 Temperature 120' 97' 79" 19" 39" 19" 1" 10 to 10



END POST DETAIL

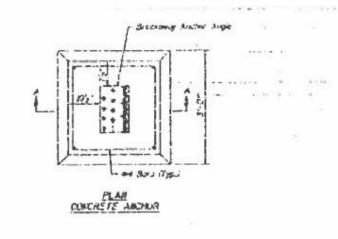


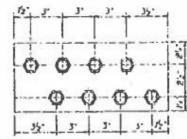
REVISED DESIGNED USER NAME = \$USER\$ REV[SED DRAWN PLOT SCALE = 1:100 CHECKED REVISED DATE

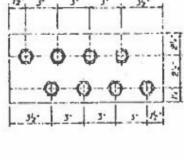
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** **EXISTING CABLE MEDIAN BARRIER (CABLE ROAD GUARD)**

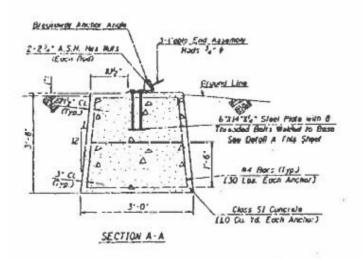
SHEET 2 OF 3 SHEETS! STA.

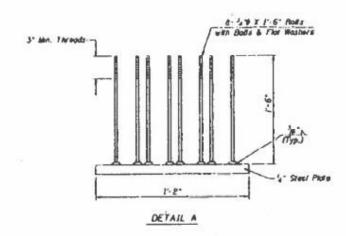
VARIOUS VAR D4 GUARDRAIL REPAIRS 2024 27 ILLINOIS CONTRACT NO. 68H90

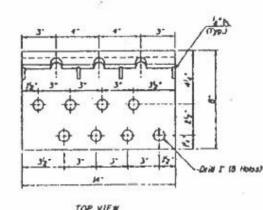


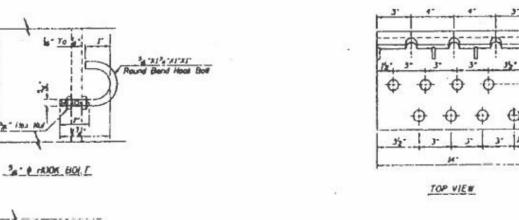


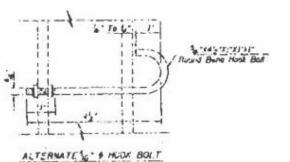


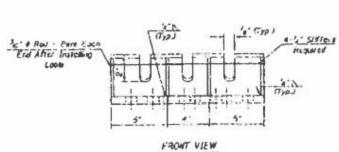


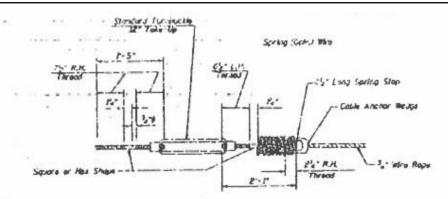




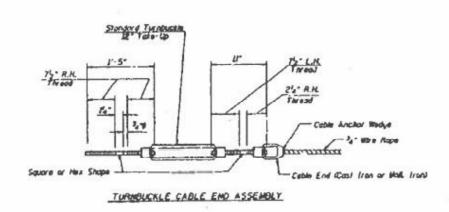


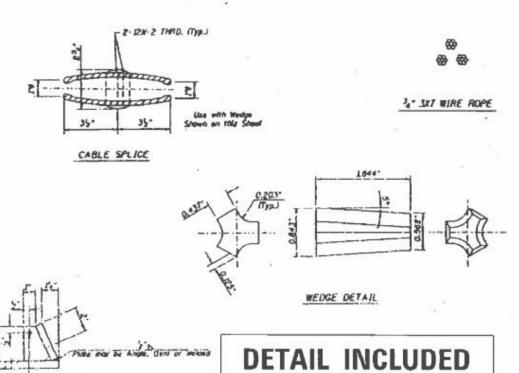






COMPENSATING CABLE END ASSEMBLY





L-Dra " (Ench SINTNER)

SIDE VIEW

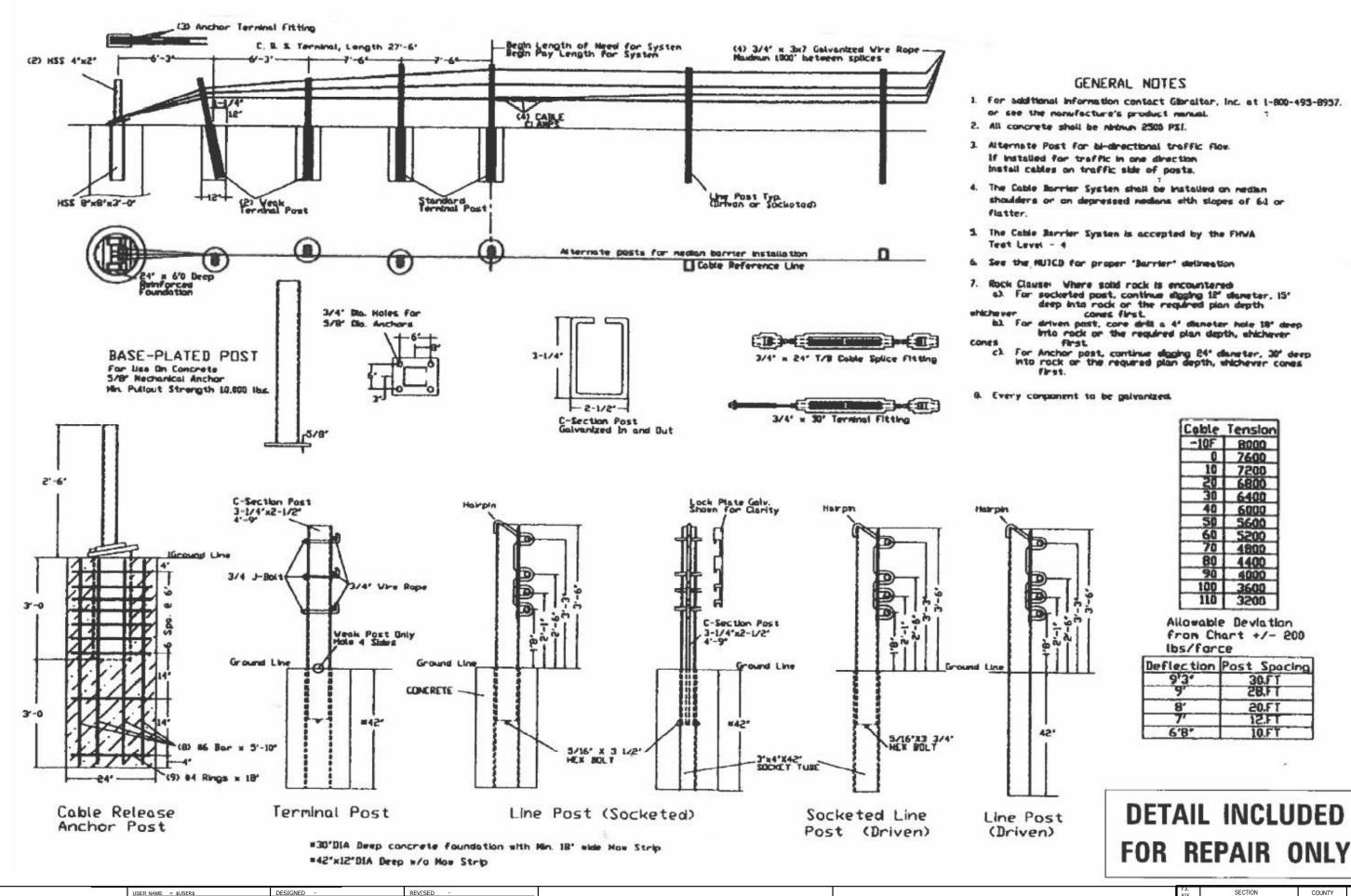
DUF	SKAW	AY CI	HUNKIN	4 NGI F

USER NAME = \$USER\$	DESIGNED - DRAWN -	REV[SED -
PLOT SCALE = 1:100	CHECKED -	REV[SED _
PLOT DATE = 10/21/2022	DATE _	REV[SED _

STATE OF	ILLINOIS
DEPARTMENT OF	TRANSPORTATION

	F.A. SECTION COUNTY		COUNTY	TOTAL SHEETS	SHEET NO.
EXISTING CABLE MEDIAN BARRIER (CABLE ROAD GUARD)		D4 GUARDRAIL REPAIRS 2024 VARIOUS		27	17
•		ILLINO	S CONTRACT N	NO. 68H90)
			•		_

FOR REPAIR ONLY



STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

REV[SED

REVISED

DRAWN

DATE

CHECKED

PLOT SCALE = 1:100

EXISTING GIBRALTAR CABLE BARRIER DETAIL VAR D4 GUARDRAIL REPAIRS 2024 VARIOUS 27 18 ILLINOIS CONTRACT NO. 68H90

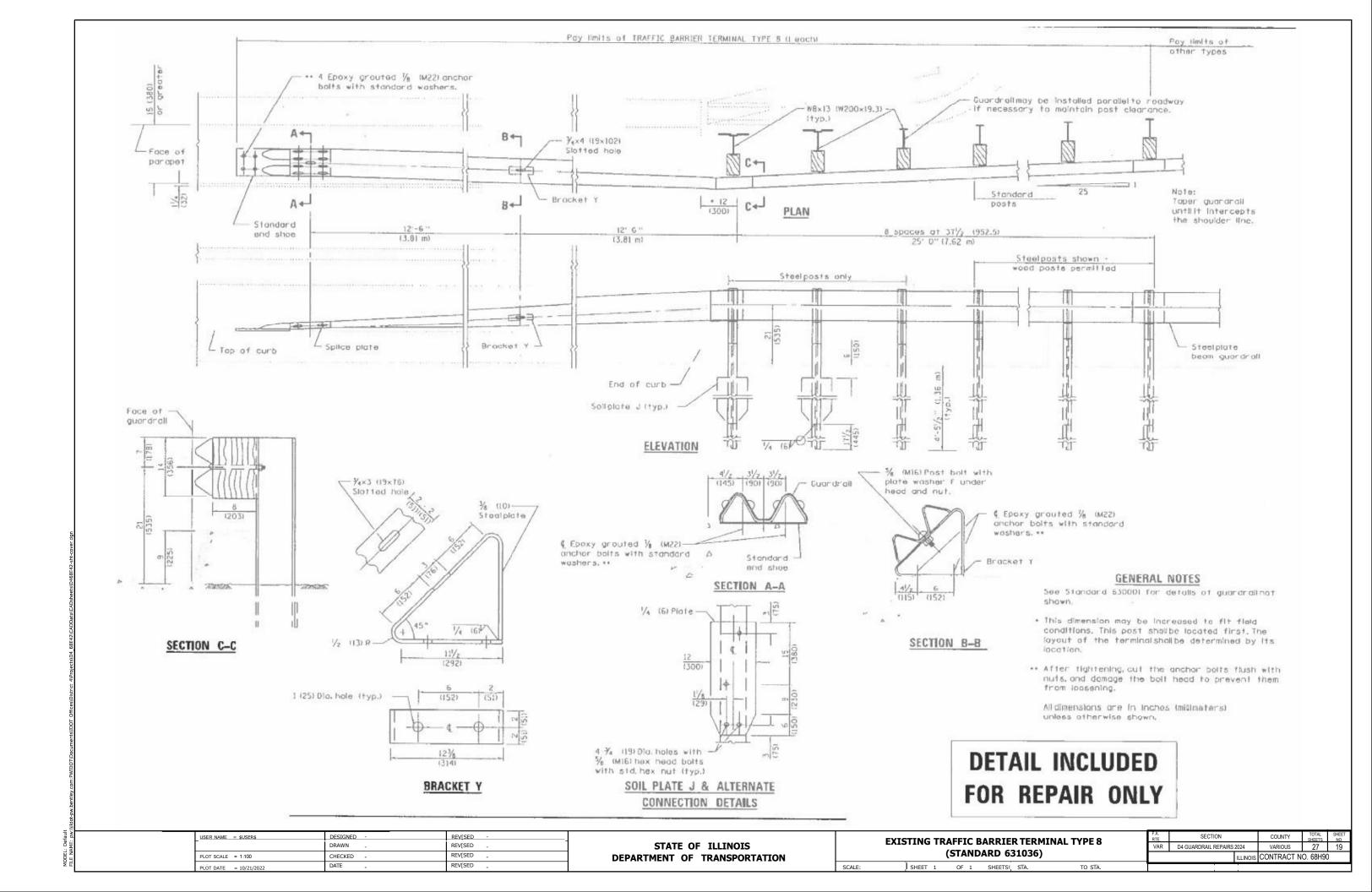
SHEET 3 OF 3 SHEETS! STA.

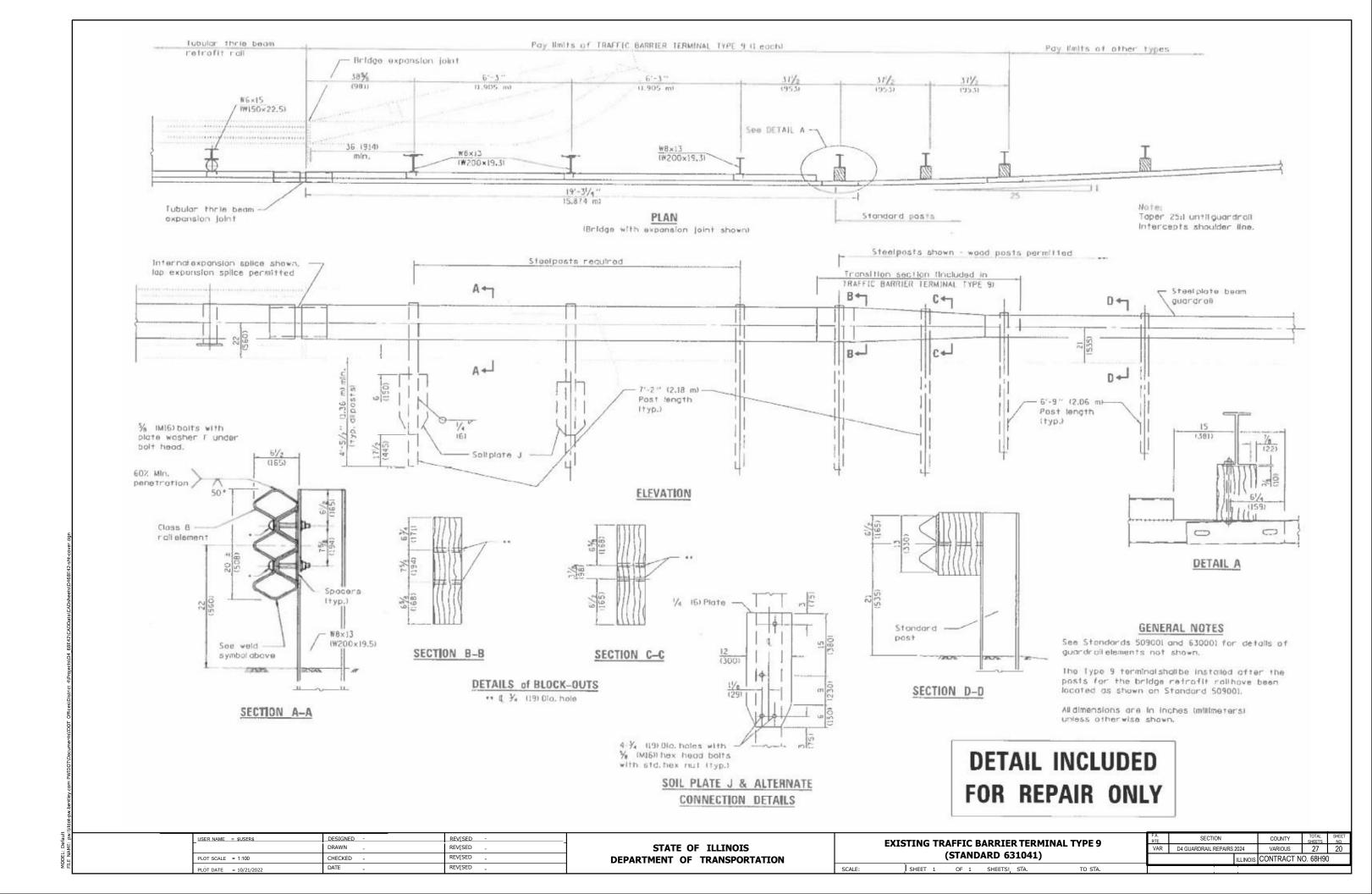
30.FT

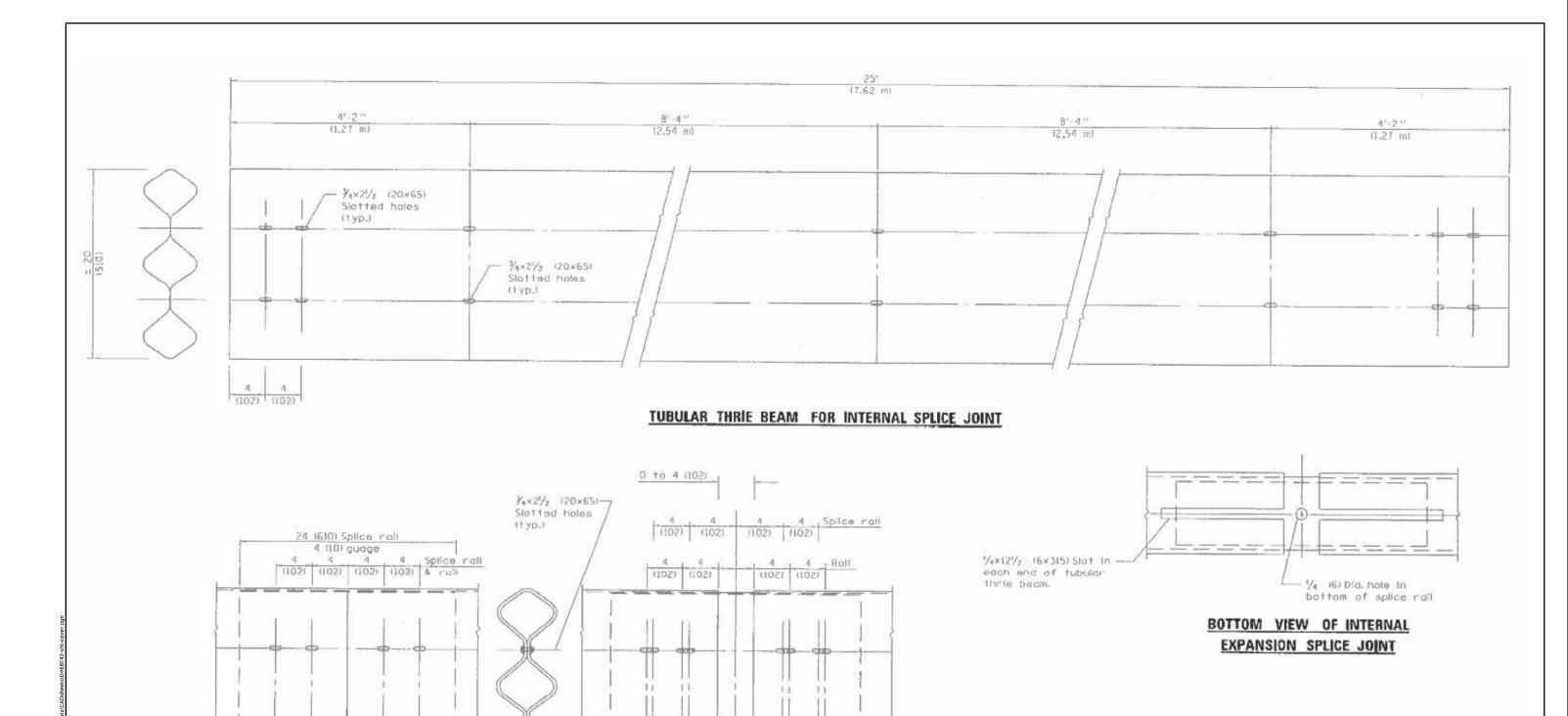
20.FT

12.FT

10.FT







DETAIL INCLUDED FOR REPAIR ONLY

GENERAL NOTES

Plate Washers B are to be placed under both heads and nuts of splicing boits 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.

 VARIOUS
 27
 21

 CONTRACT NO. 68H90

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

USER NAME = \$USER\$	DESIGNED -	REV[SED -	
_	DRAWN _	REV[SED _	ı
PLOT SCALE = 1:100	CHECKED -	REV[SED _	İ
PLOT DATE = 10/21/2022	DATE _	REV[SED _	ı

INTERNAL SPLICE

JOINT

6½ (155) 0°0

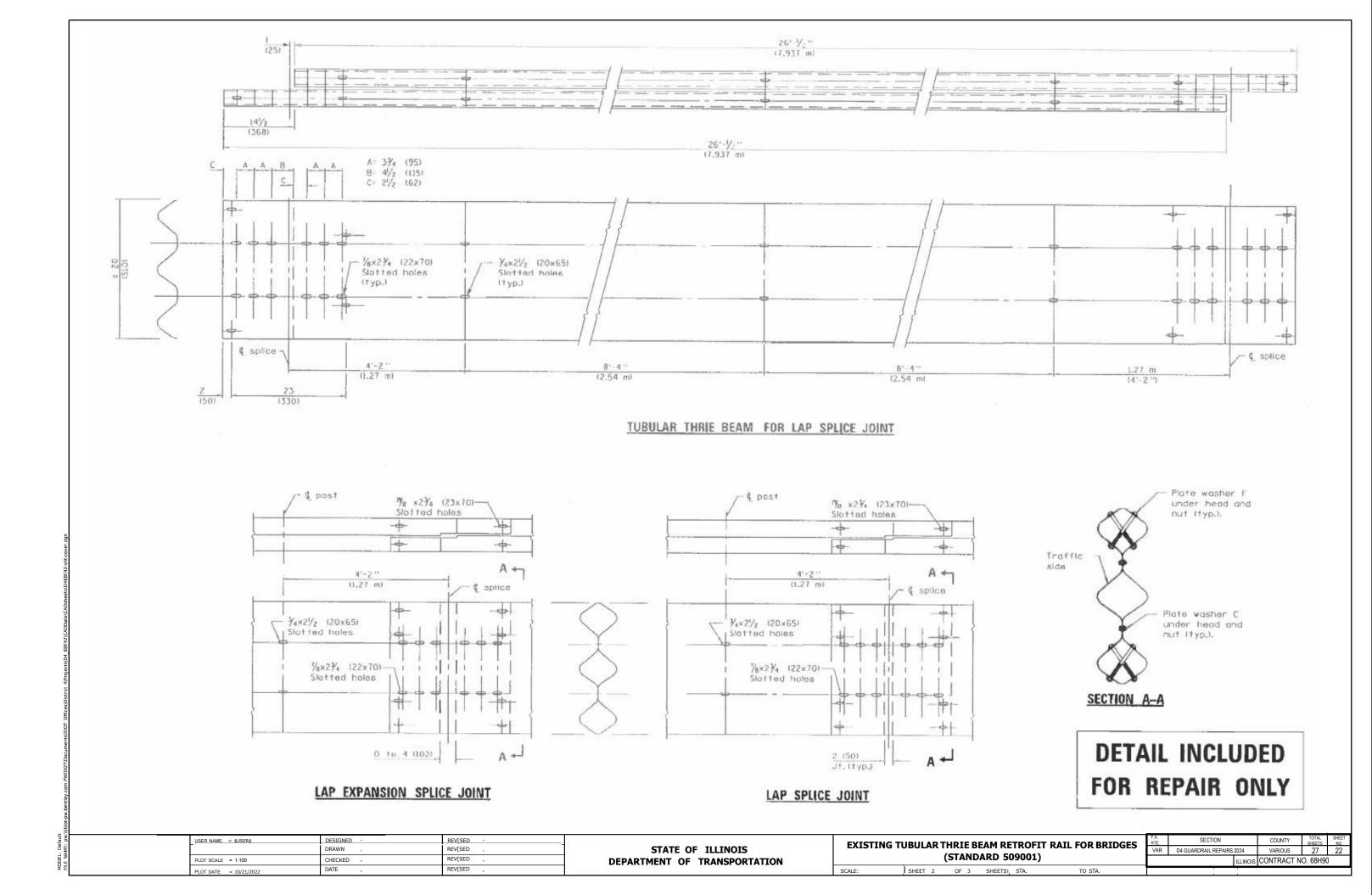
splice rall

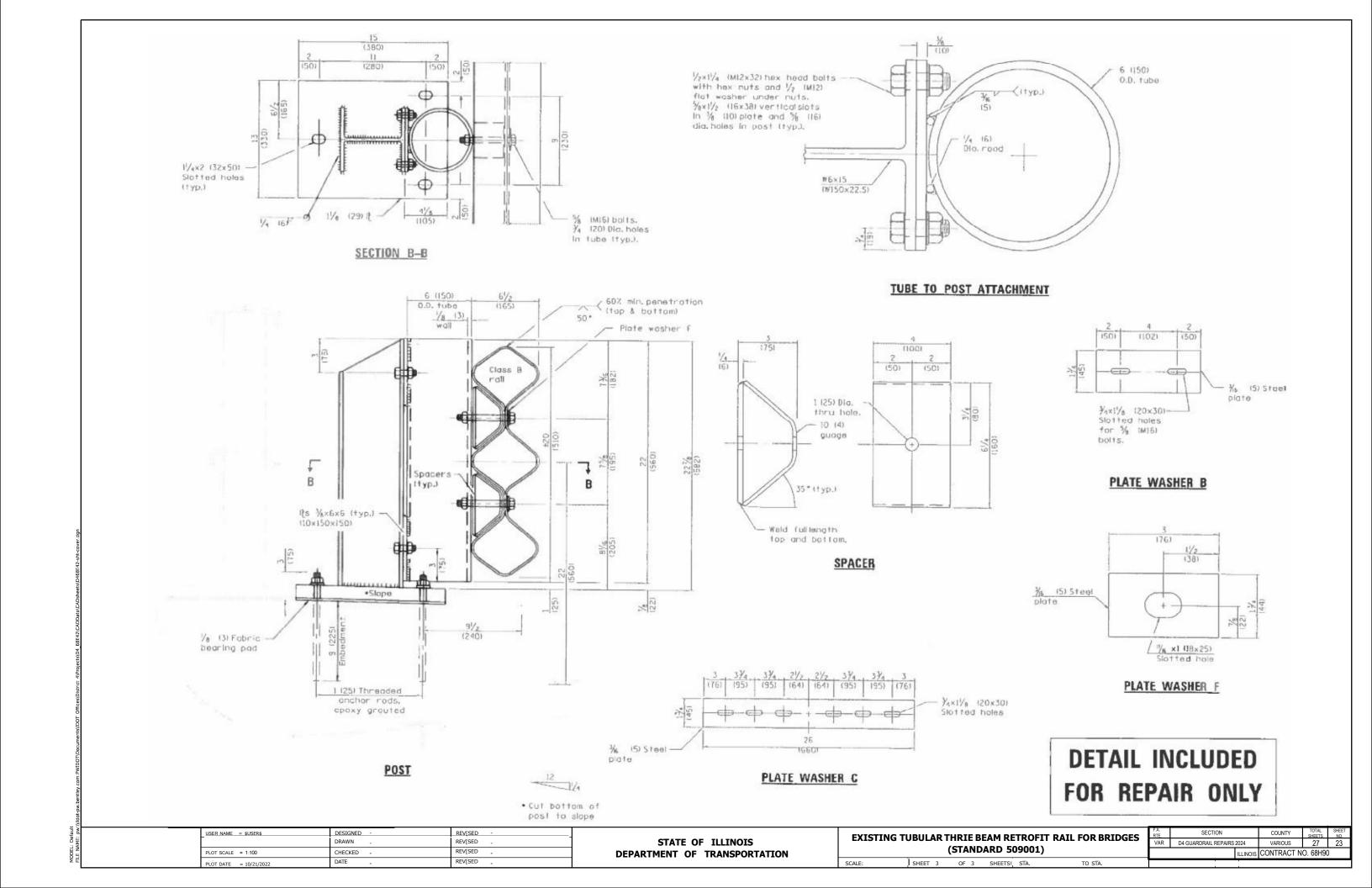
STATE OF	ILLINOIS
DEPARTMENT OF	TRANSPORTATION

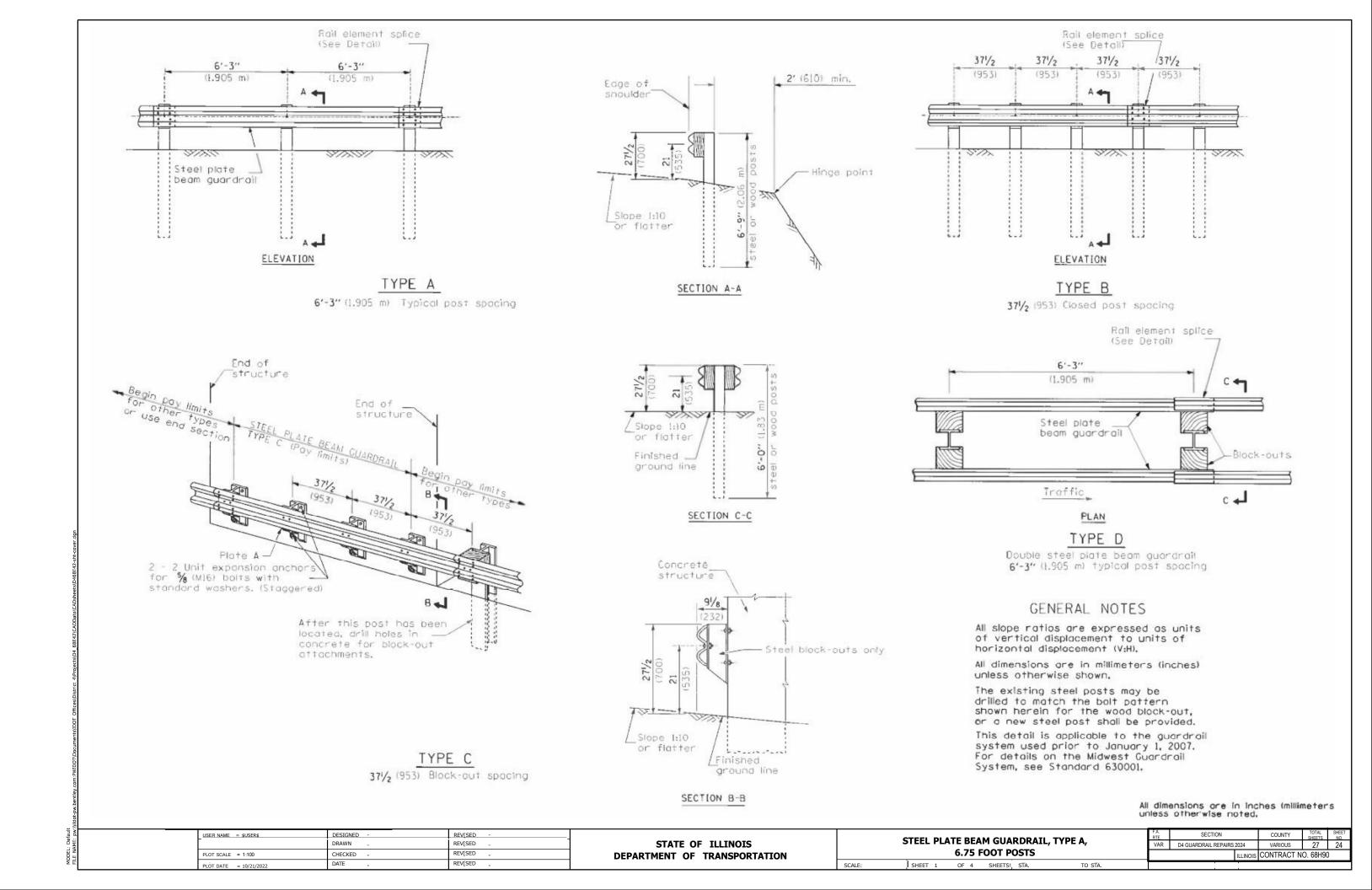
INTERNAL EXPANSION

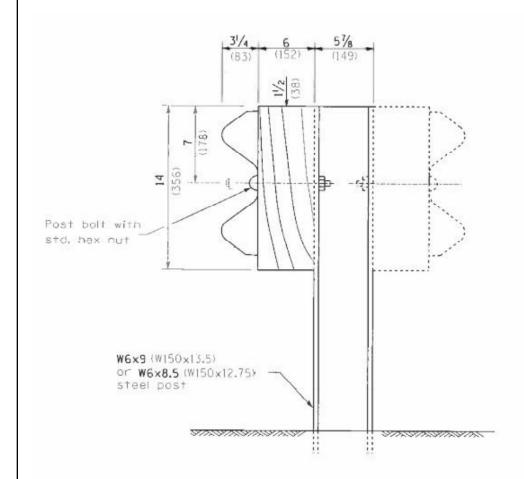
SPLICE JOINT

EXISTING TUBULAR THRIE BEAM RETROFIT RAIL FOR BRIDGES					F.A. RTE.	SECTION			
					VAR	D4 GUARDRAIL REPAIRS 2024			
	(STANDARD 509001)							ILLINOIS	(
CALE:	SHEET 1	OF	3 SHEET	S! STA.	TO STA.			•	_









STEEL POST CONSTRUCTION

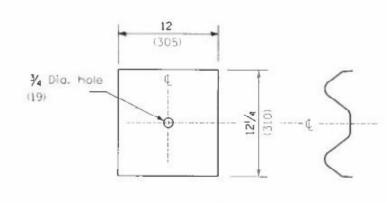
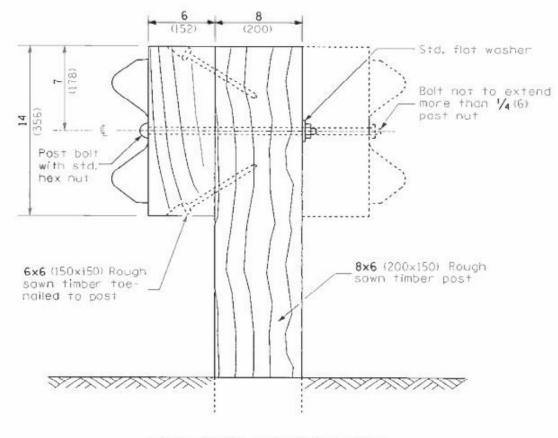


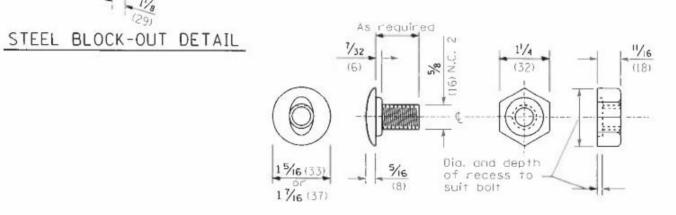
Plate A shall be placed between rail element and block-out at nonsplice mounting points only when steel block-outs are used.

NOTE

PLATE A



WOOD POST CONSTRUCTION

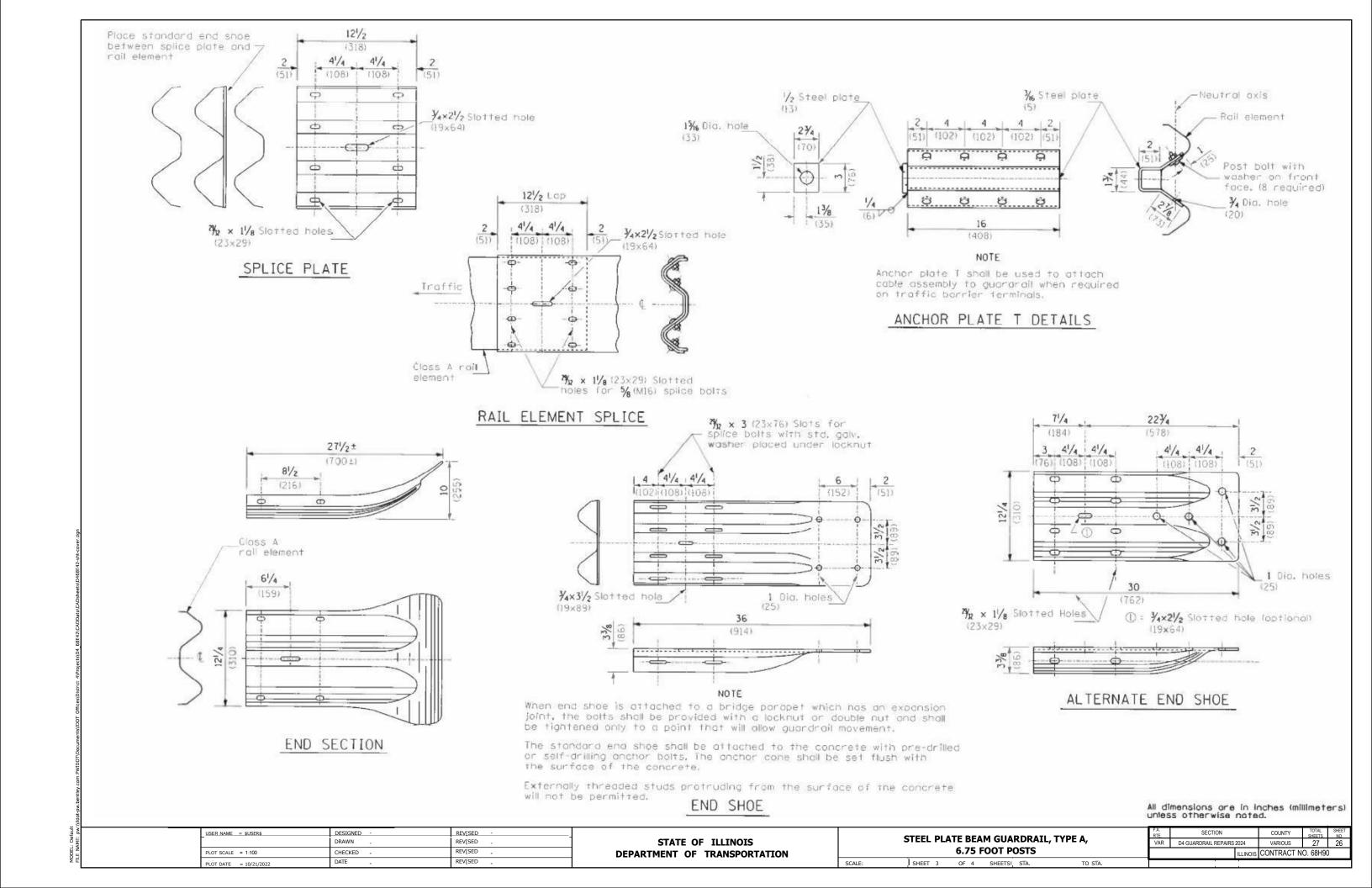


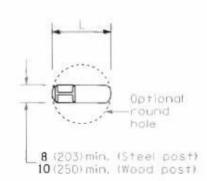
POST OR SPLICE BOLT & NUT

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

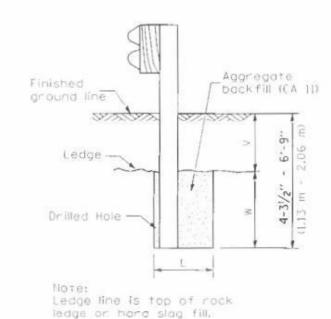
DESIGNED REV[SED USER NAME = \$USER\$ RTE. SECTION

VAR D4 GUARDRAIL REPAIRS 2024 STEEL PLATE BEAM GUARDRAIL, TYPE A, REV[SED STATE OF ILLINOIS DRAWN VARIOUS 27 25 6.75 FOOT POSTS REV[SED PLOT SCALE = 1:100 CHECKED -**DEPARTMENT OF TRANSPORTATION** ILLINOIS CONTRACT NO. 68H90 DATE SCALE: SHEET 2 OF 4 SHEETS! STA. TO STA.



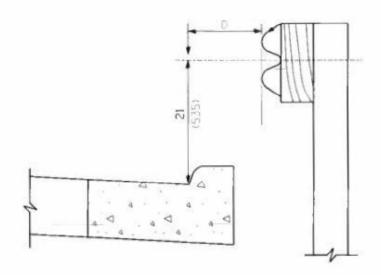


PLAN



ELEVATION

FOOTING FOR POST WHEN IMPERVIOUS MATERIAL IS ENCOUNTERED



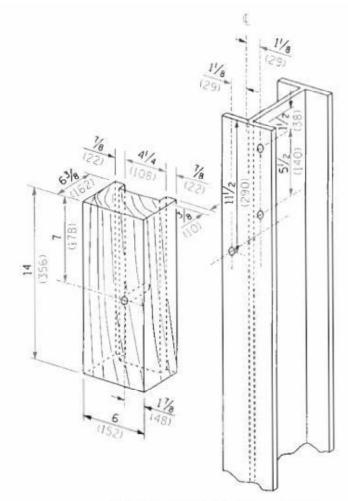
Note:

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

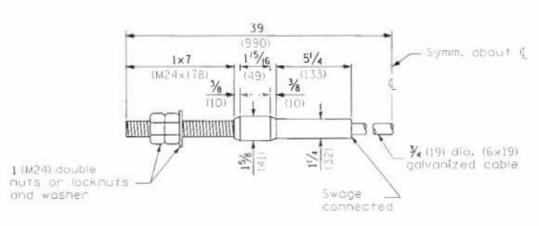
GUARDRAIL PLACED BEHIND CURB

ID = 0 desirable to 12 (300) maximum)

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



WOOD BLOCK-OUT AND STEEL POST DETAILS



CABLE ASSEMBLY

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

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

USER NAME = \$USER\$	DESIGNED -	REV[SED -				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN _	REV[SED _	STATE OF ILLINOIS		SILLE FLATE BLATT GOARDRAIL, TIFL A,	VAR	D4 GUARDRAIL REPAIRS 2024	VARIOUS	27	27
PLOT SCALE = 1:100	CHECKED -	REV[SED _	DEPARTMENT OF TRANSPORTATION		6.75 FOOT POSTS		ILLINOIS	CONTRACT I	NO. 68H90	,
PLOT DATE = 10/21/2022	DATE _	REV[SED _		SCALE:	SHEET 4 OF 4 SHEETS! STA. TO STA.					