FOR INDEX OF SHEETS, SEE SHEET NO. 2

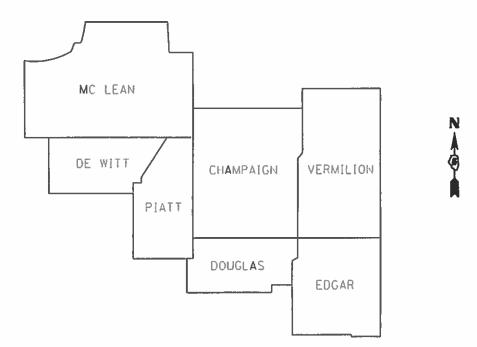
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 3-6

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

PROPOSED HIGHWAY PLANS

VARIOUS ROUTES SECTION D5 GR & FENCE REPAIR 2020-1 **GUARDRAIL & FENCE REPAIR VARIOUS COUNTIES**

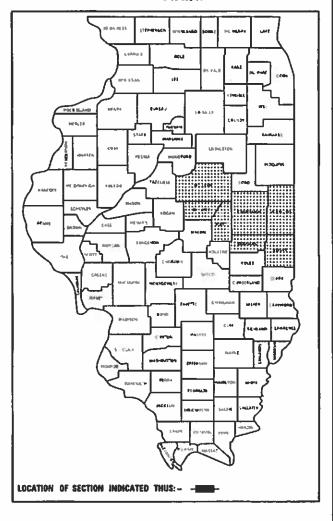
C-95-001-20



COUNTY SHEETS NO.

VARIOUS 10 1 PAR RTE. RUNDIS CONTRACT NO. 70D53

DS GR & FENCE REPAIR 2020-1



STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS



ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

PROJECT ENGINEER: JASON STULTS PHONE NUMBER: 217-465-4181

CONTRACT NO. 70D53

0

INDEX OF SHEETS

| SHEET NO. | DESCRIPTION | 1 | COVER SHEET | 1 | INDEX OF SHEETS | 2 | HIGHWAY STANDARDS | 2 | GENERAL NOTES | 3 | TO | 6 | SUMMARY OF QUANTITIES | 7 | TO | 10 | PLAN DETAILS |

GENERAL NOTES

G.N.-100

ENGLISH UNITS OF MEASUREMENT SHALL GOVERN OVER AND SUPERSEDE ANY METRIC UNITS SHOWN IN THIS CONTRACT. WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.

G.N.-100A

ELECTRONIC FILES AND/OR ELECTRONIC SURVEY INFORMATION INCLUDING CADD FILES WILL NOT BE AVAILABLE TO THE CONTRACTOR.

G.N.-631

IF THE CONTRACTOR ELECTS TO USE THE ALTERNATE MOUNTING METHOD OF THRU DRILLING THE MOUNTING HOLES FOR THE TRAFFIC BARRIER TERMINALS, TYPE 6, THE HOLES SHALL BE DRILLED USING A CORE DRILL. A HAMMER DRILL WILL NOT BE ALLOWED.

HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-07	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
630001-12	STEEL PLATE BEAM GUARDRAIL
630101-12	STRONG POST GUARDRAIL ATTACHED TO CULVERT
630106-02	LONG-SPAN GUARDRAIL OVER CULVERT
630111	WEAK POST GUARDRAIL ATTACHED TO CULVERT
630201-07	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631011-10	TRAFFIC BARRIER TERMINAL, TYPE 2
631026-06	TRAFFIC BARRIER TERMINAL, TYPE 5
631031-15	TRAFFIC BARRIER TERMINAL, TYPE 6
631031-13	TRAFFIC BARRIER TERMINAL, TYPE 6A
631032-09	TRAFFIC BARRIER TERMINAL, TYPE 6A TRAFFIC BARRIER TERMINAL, TYPE 6B
	,
631046-04	TRAFFIC BARRIER TERMINAL, TYPE 10
643001-02	SAND MODULE IMPACT ATTENUATORS CHAIN LINK FENCE
664001-02	
665001-02 701001-02	WOVEN WIRE FENCE
	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5M) AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5M) TO 24" (600MM) FROM PAVEMENT EDGE
701101-05 701106-02	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5M) TO 24" (600MM) FROM PAVEMENT EDGE
	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5M) AWAY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH LANE CLOSURE, 2L, 2W, NIGHT ONLY, FOR SPEEDS ≥ 45 MPH
701206-05	, , , ,
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701400-09	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-12	LANE CLOSURE, FREEWAY/EXPRESSWAY
701406-12	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45 MPH
701421-08	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS ≥ MPH TO 55 MPH
701422-10	LANE CLOSURE, MULTILANE, FOR SPEEDS ≥ 45 MPH TO 55 MPH
701428-01	TRAFFIC CONTROL SETUP AND REMOVAL 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
701901-08	TRAFFIC CONTROL DEVICES

COMMITMENTS

THERE ARE NO COMMITMENTS FOR THIS CONTRACT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, HIGHWAY STANDARDS
& GENERAL NOTES

SHEET 1 OF 1 SHEETS STA. TO STA.

SCALE: N/A

* D5 GR & FENCE REPAIR 2020-1

SECTION COUNTY TOTAL SHEETS NO.

* VARIOUS 10 2

CONTRACT NO. 70D53

VAR

REV. 3/20/19

			LOCATION:	VARIOUS ROUTES	VARIOUS ROUTES	VARIOUS ROUTES
			COUNTY: FUNDING BREAKOUT: CONSTRUCTION CODE:	VARIOUS 100% STATE 0021	VARIOUS 100% STATE 0021	VARIOUS 100% STATE 0021
CODE NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	MCHD	CONTRACT MAINT	НТСВ
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	100.0	75.0	25.0	
63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	4.0	2.0	2.0	
63100070	TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	1.0	1.0		
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	1.0	1.00		
63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	1.0	1.0		
63100089	TRAFFIC BARRIER TERMINAL, TYPE 6B	EACH	1.0	1.0		
63100105	TRAFFIC BARRIER TERMINAL, TYPE 10	EACH	1.0	1.0		
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	33.0	20.0	13.00	
63400105	GUARD POSTS	EACH	10.0	10.0		
64300260	IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1.0	1.0		
64300370	IMPACT ATTENUATORS (FULLY REDIRECTIVE, WIDE), TEST LEVEL 3	EACH	1.0	1.0		
20400405	OUADA DI NIK FENOF (I	F227	200.5	200 5	100.5	
66400105	CHAIN LINK FENCE, 4'	FOOT	300.0	200.0	100.0	
66400005	CHAINLINK FENCE O	FOOT	450.0	250.0	000.0	
66400305	CHAIN LINK FENCE, 6'	FOOT	450.0	250.0	200.0	
66500405	WOVEN WIDE FENCE AL	FOOT	2500.0	4.750.0	750.0	
66500105	WOVEN WIRE FENCE, 4'	FOOT	2500.0	1,750.0	750.0	

*SPECIALTY ITEM

* D5 GR & FENCE REPAIR 2020-1

USER NAME = carrollrt	DESIGNED -	REVISED -								F.A. RTE	SECTION	COUNTY	TOTAL	SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS		S	UMMARY	/ OF QU	IANTITIES		VAR	*	VARIOUS	10	3
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION									CONTRAC	T NO. 7	0D53
PLOT DATE = 12/6/2018	DATE -	REVISED -		SCALE: N/A	SHEET 1	OF 4	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		

E NAME: pw:\\IL084EBIDINTEG.IIIInols.gov:PWIDOT\Documents\IDOT Offices

			LOCATION:	VARIOUS ROUTES	VARIOUS ROUTES	VARIOUS ROUTES
			COUNTY: FUNDING BREAKOUT: CONSTRUCTION CODE:	VARIOUS 100% STATE 0021	VARIOUS 100% STATE 0021	VARIOUS 100% STATE 0021
CODE NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	MCHD	CONTRACT MAINT	НТСВ
66501200	WOVEN WIRE GATES, 4' X 8' DOUBLE	EACH	1.0	1.0		
72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	28.0	14.0	14.0	
78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	14.0	8.0	6.0	
X0325256	REPAIR HIGH TENSION CABLE (BRIFEN)	FOOT	70.0	40.0		30.0
X0325258	REPAIR HIGH TENSION CABLE SYSTEM END SECTION (BRIFEN)	EACH	2.0	1.0		1.0
X0325260	REPAIR POSTS (BRIFEN)	EACH	11.0	6.0		5.0
X0325264	REPAIR IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1.0	1.0		
X0325899	REPAIR HIGH TENSION CABLE (GIBRALTAR)	FOOT	700.0	550.0		150.0
X0325901	REPAIR POSTS (GIBRALTAR)	EACH	700.0	550.0		150.0
X0325975	REPAIR HIGH TENSION CABLE SYSTEM END SECTION (GIBRALTAR)	EACH	18.0	16.0		2.0
X0326201	REPAIR HIGH TENSION CABLE (TRINITY)	FOOT	200.0	150.0		50.0
X0326202	REPAIR POSTS (TRINITY)	EACH	130.0	100.0		30.0
X0326203	REPAIR HIGH TENSION CABLE SYSTEM END SECTION (TRINITY)	EACH	4.0	2.0		2.0
X2300003	SPLICING HIGH TENSION CABLE (BRIFEN)	EACH	1.0	1.0		

*SPECIALTY ITEM

* D5 GR & FENCE REPAIR 2020-1

USER NAME = CARROLLE	DESIGNED -	KEVISED -	
	DRAWN -	REVISED -	S
PLOT SCALE = 40.0000 / in.	CHECKED -	REVISED -	DEPARTM
PLOT DATE = 12/6/2018	DATE -	REVISED -	

SCALE: N/A

				LOCATION:	VARIOUS ROUTES	VARIOUS ROUTES	VARIOUS ROUTES
				COUNTY: FUNDING BREAKOUT: CONSTRUCTION CODE:	VARIOUS 100% STATE 0021	VARIOUS 100% STATE 0021	VARIOUS 100% STATE 0021
CODE NO.	DESCRIPTION		UNIT	TOTAL QUANTITY	MCHD	CONTRACT MAINT	НТСВ
X2300004	SPLICING HIGH TENSION CABLE (GIBRALTAR)		EACH	5.0	3.0		2.0
X2300005	SPLICING HIGH TENSION CABLE (TRINITY)		EACH	2.0	2.0		
V0000705	OTES! DIATE DEAM CHARDONAII (CHORT DADIHO)		FOOT	50.0	05.0	05.0	
X6330725	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	+	FOOT	50.0	25.0	25.0	
X6331110	STEEL POSTS, SPECIAL		EACH	2.0	2.0		
	,						
X6340205	GUARD POSTS REMOVAL		EACH	10.0	10.0		
X6432110	REPLACE IMPACT ATTENUATORS (NON-REDIRECTIVE), TEST LEVEL 3		EACH	80.0	70.0	10.0	
X6640594	CHAIN LINK FENCE POST 4'		EACH	24.0	15.0	9.0	
X6640601	CHAIN LINK FENCE POST 6'	_	EACH	24.0	15.0	9.0	
7000700	EMEDICENSY WORK ON LOUT	_	54011	40.0	05.0	45.0	
Z0008760	EMERGENCY WORK CALL OUT		EACH	40.0	25.0	15.0	
Z0012752	CONCRETE STRUCTURE REPAIR		CU FT	11.0	8.0	3.0	
20012102			3311		5.5	0.0	
Z0020210	PULL POST ARRANGEMENT		EACH	28.0	20.0	8.0	
Z0052000	REPAIR STEEL PLATE BEAM GUARDRAIL, TYPE A		FOOT	4000.0	2,500.0	1,500.0	
Z0052100	REPAIR STEEL PLATE BEAM GUARDRAIL, TYPE B		FOOT	25.0	25.0		
Z0052410	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL (TANGENT)		EACH	20.0	14.0	6.0	

*SPECIALTY ITEM

* D5 GR & FENCE REPAIR 2020-1

USER NAME = carrollrt	DESIGNED -	REVISED -								F.A. RTF	SECTION	COUNT	Y SH
	DRAWN -	REVISED -	STATE OF ILLINOIS			UMMARY		JANTITIES		VAR	*	VARIOU	JS J
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PLOT DATE = 12/6/2018	DATE -	REVISED -		SCALE: N/A	SHEET 3	OF 4	SHEETS	STA.	TO STA.		ILLINOIS	ED. AID PROJECT	

				LOCATION:	VARIOUS ROUTES	VARIOUS ROUTES	VARIOUS ROUTES
				COUNTY: FUNDING BREAKOUT: CONSTRUCTION CODE:	100% STATE	VARIOUS 100% STATE 0021	VARIOUS 100% STATE 0021
СО	DDE NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	MCHD	CONTRACT MAINT	нтсв
Z0(052415	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL (FLARED)	EACH	4.0	2.0	2.0	
Z00	0052600	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	4.0	2.0	2.0	
Z0	0053000	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	1.0	1.0		
Z00	0053200	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4.0	2.0	2.0	
Z0	0053210	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	1.0	1.0		
Z0	0053220	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 6B	EACH	1.0	1.0		

*SPECIALTY ITEM

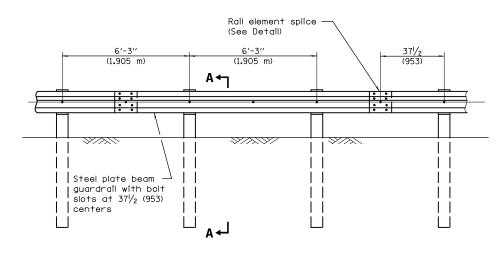
* D5 GR & FENCE REPAIR 2020-1

USER NAME = CARROLLE	DESIGNED -	KEVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 / in.	CHECKED -	REVISED -
PLOT DATE = 12/6/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

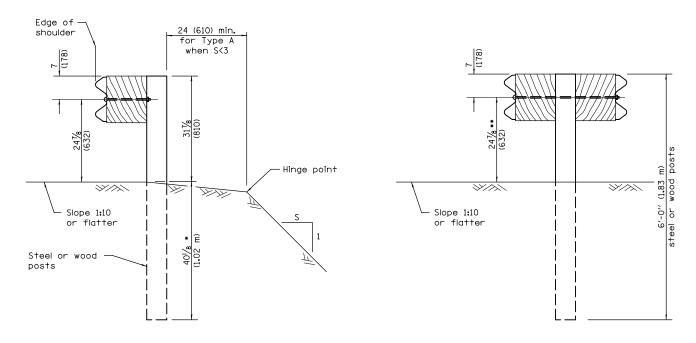
SCALE: N/A

							F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
SUMMARY OF QUANTITIES						VAR	*	VARIOUS	10	6	
									CONTRACT	NO. 70	D53
	SHEET 4	OF 4	SHEETS	STA.	TO STA.			ILLINOIS FED A	ID PROJECT		



ELEVATION

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

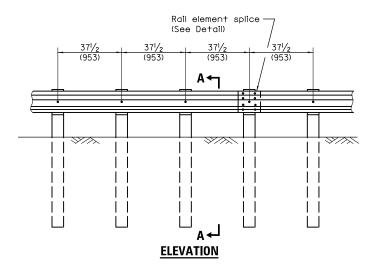


SECTION A-A

• When "S" is less than 3 and the distance from the back of post is less than 24 (610), the post shall be steel and the embedment shall be 76/8 (1934).

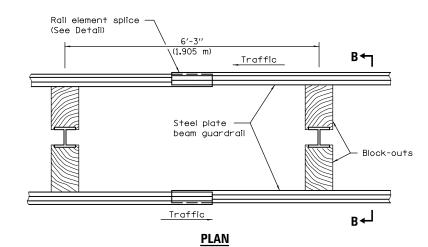
SECTION B-B

•• When connecting Type D guardrall to an impact attenuator, adjust this dimension to 21% (556) over a distance of 25'-0" (7.62 m) from point of connection.



TYPE B

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



TYPE D

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

GENERAL NOTES

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

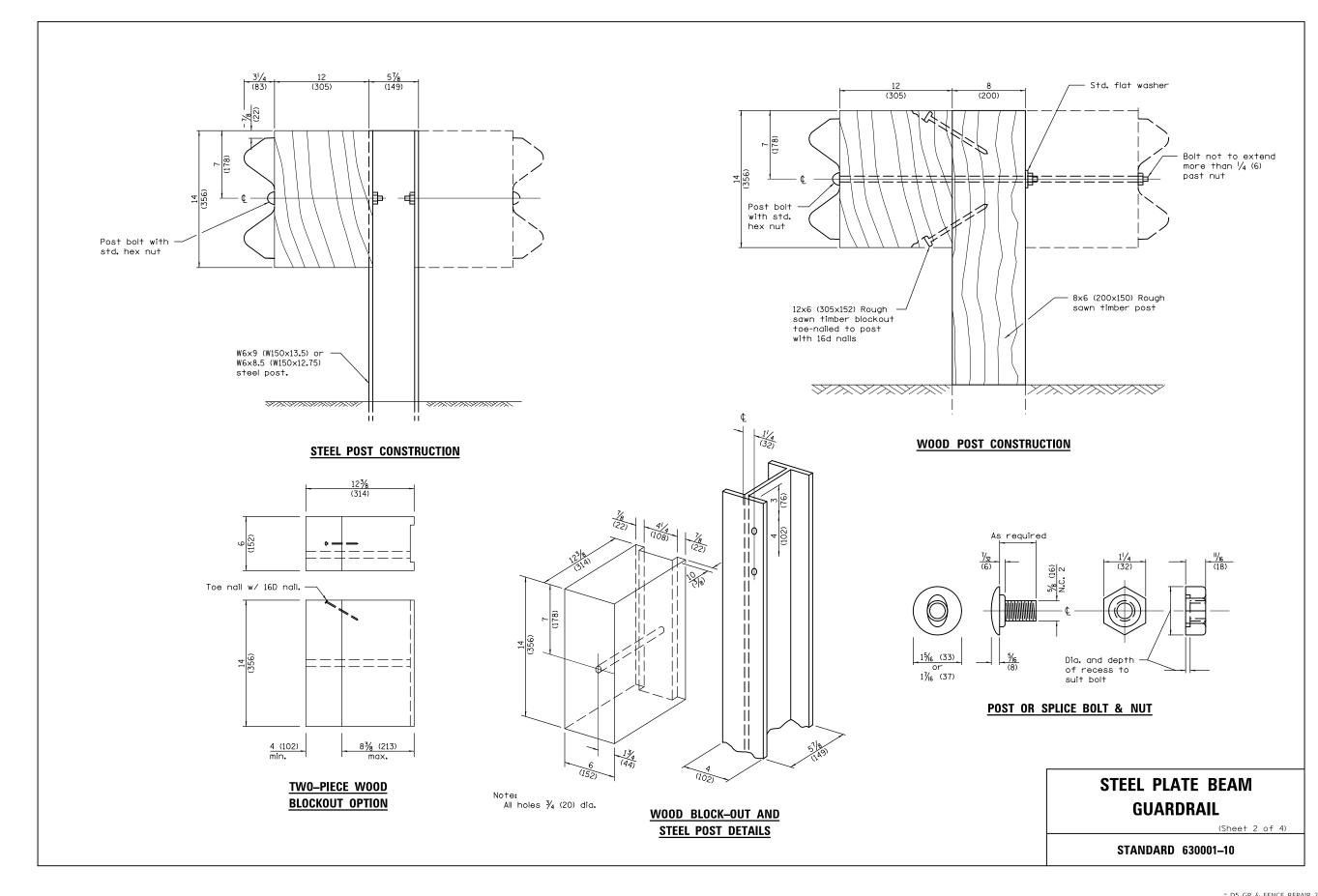
All dimensions are in inches (millimeters) unless otherwise shown.

STEEL PLATE BEAM GUARDRAIL

(Sheet 1 of 4)

STANDARD 630001-10

DESIGNED - REVISED - RTE.



STATE OF ILLINOIS DRAWN REVISED CHECKED REVISED **DEPARTMENT OF TRANSPORTATION** PLOT DATE = 12/6/2018 DATE REVISED

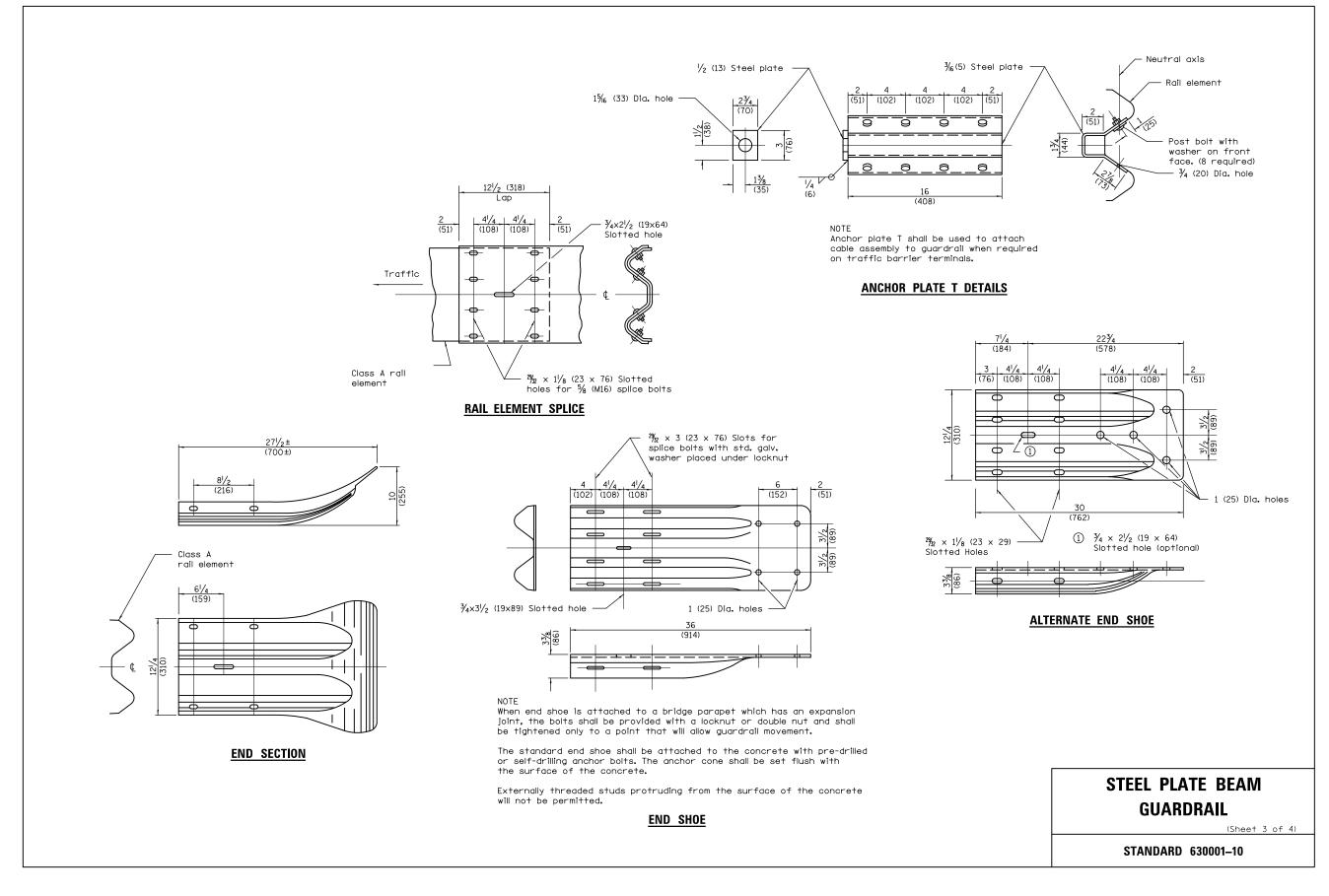
REVISED

JSER NAME = carrollrt

DESIGNED -

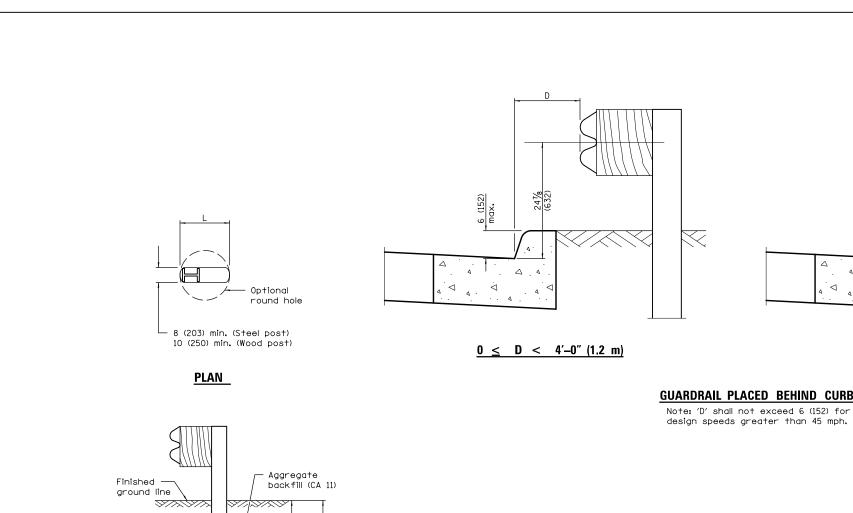
DETAIL OF 27½" STEEL PLATE BEAM GUARDRAIL SCALE: N/A SHEET 2 OF 4 SHEETS STA.

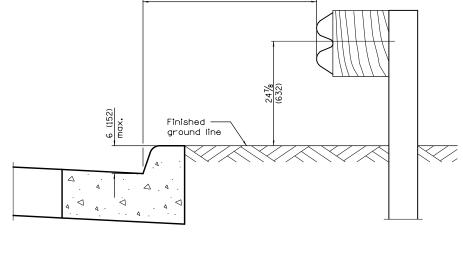
VARIOUS 10 8 CONTRACT NO. 70D53



* D5 GR & FENCE REPAIR 2020-1

JSER NAME = carrollrt DESIGNED -REVISED STATE OF ILLINOIS DETAIL OF 27½" STEEL PLATE BEAM GUARDRAIL DRAWN REVISED 10 9 VARIOUS CHECKED REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 70D53 SCALE: N/A SHEET 3 OF 4 SHEETS STA. PLOT DATE = 12/6/2018 DATE REVISED

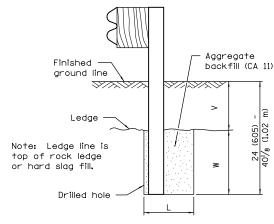




4'-0'' (1.2 m) \leq D \leq 12'-0" (3.7 m)

GUARDRAIL PLACED BEHIND CURB

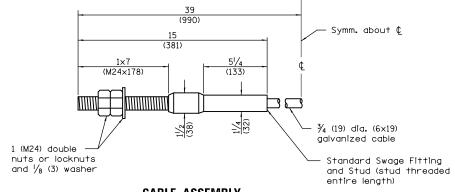
SCALE: N/A



ELEVATION

FOOTING FOR POST WHEN IMPERVIOUS MATERIAL IS ENCOUNTERED

V	w	ι	-
V	W	Steel Post	Wood Post
0 - 6	24	21	23
(0 - 152)	(610)	(530)	(580)
> 6 - 18	18	141/2	161/2
(> 152 - 458)	(458)	(368)	(419)
> 18 - 31	12	8	10
(> 458 - 787)	(305)	(203)	(250)
> 31 - 401/8	12 - 0	8	10
(> 787 - 1.02 m)	(305 - 0)	(203)	(250)



CABLE ASSEMBLY

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

STEEL PLATE BEAM **GUARDRAIL**

(Sheet 4 of 4)

STANDARD 630001-10

* D5 GR & FENCE REPAIR 2020-1

USER NAME = carrollrt	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	STATE OF ILLIN
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRAN
PLOT DATE = 12/6/2018	DATE -	REVISED -	