01-15-2021 LETTING ITEM 116

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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED HIGHWAY PLANS

ROUTE: VARIOUS EXPRESSWAYS AND ARTERIAL HIGHWAYS – DISTRICT ONE SECTION: 2020–243–GRR GUARDRAIL REPAIRS VARIOUS COUNTIES C-91–050–21

SEE LOCATION MAPS
SHEETS 5 THRU 13

C.U.A.N. CHICAGO UTILITY ALERT NETWORK 1-312-744-7000

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT MANAGER: J. ALAIN MIDY (847) 221-3056

CONTRACT NO. 62N13

D-91-050-21



DECEMber 4, 2020

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

20 20 REGIONAL ENGINEER

December 4, 2020

ENGINEER OF DESIGN AND ENVIRONMENT

December 4, 2020

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

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631006-08	TRAFFIC BARRIER TERMINAL, TYPE 1B
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701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, > 15' AWAY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS, DAY ONLY
701336-07	LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES, FOR SPEEDS > 45 MPH
701400-10	APPROACH TO LANE CLOSURE, FREEWAY/ EXPRESSWAY
701401-12	LANE CLOSURE, FREEWAY/ EXPRESSWAY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEED \geq 45 MPH
701421-08	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY FOR SPEEDS > 45 MPH TO 55 MPH
* 701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS \geq 45 M
701427-05	LANE CLOSURE, MULTILANE, INTERMITTANT OR MOVING OPERATIONS \leq 40 MPH
701428-01	TRAFFIC CONTROL SETUP AND REMOVAL 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
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701901-08	TRAFFIC CONTROL DEVICES
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
782006-01	GUARDRAIL & BARRIER WALL REFLECTOR MOUNTING DETAILS

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811 OR "CUAN" AT (312) 744-700 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.

ALL WORK IS TO BE REPLACED IN KIND OR AS INDICATED ON THE CONTRACT QUANTITY SHEET.

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.

NO MATERIAL SHOULD BE LEFT ON OR NEAR THE ROADWAY DURING NON-WORKING HOURS.

ANY NECESSARY TRAFFIC CONTROL WILL BE PROVIDED BY THE CONTRACTOR; APPROPRIATE STANDARDS ARE HEREWITH ATTACHED.

THE LIMITS OF THE DAMAGED GUARDRAIL WILL BE MARKED WITH PAINT. THE REPLACEMENT PARTS AND THE QUANTITIES 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.

GUARDRAIL MARKERS SHALL NOT BE ATTACHED TO TERMINAL SECTIONS.

THE CONTRACTOR SHALL TELEPHONE THE IDOT BUREAU OF TRAFFIC OPERATIONS, ELECTRICAL MAINTENANCE SECTION AT 708-524-2145 TO REQUEST THE LOCATE FOR UNDERGROUND ELECTRICAL AND/OR FIBER CABLE PRIOR TO ANY DIGGING AS PER THE CONTRACT.

REMOVAL OF EXISTING TERMINAL SECTIONS INCLUDED IN COST OF NEW TERMINAL SECTIONS

THE CONTRACTOR SHALL SUBMIT ALL DAILY LANE, RAMP AND SHOULDER CLOSURES VIA WWW.IDOTLCS.COM AT LEAST 24 HOURS IN ADVANCE OF ALL DAILY LANE, AND RAMP AND SHOULDER CLOSURES. THE CONTRACTOR SHALL REQUEST AND GAIN THE APPROVAL FROM THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S EXPRESSWAY TRAFFIC OPERATIONS ENGINEER AT (847) 705-4151 OR (847) 705-4155.

THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

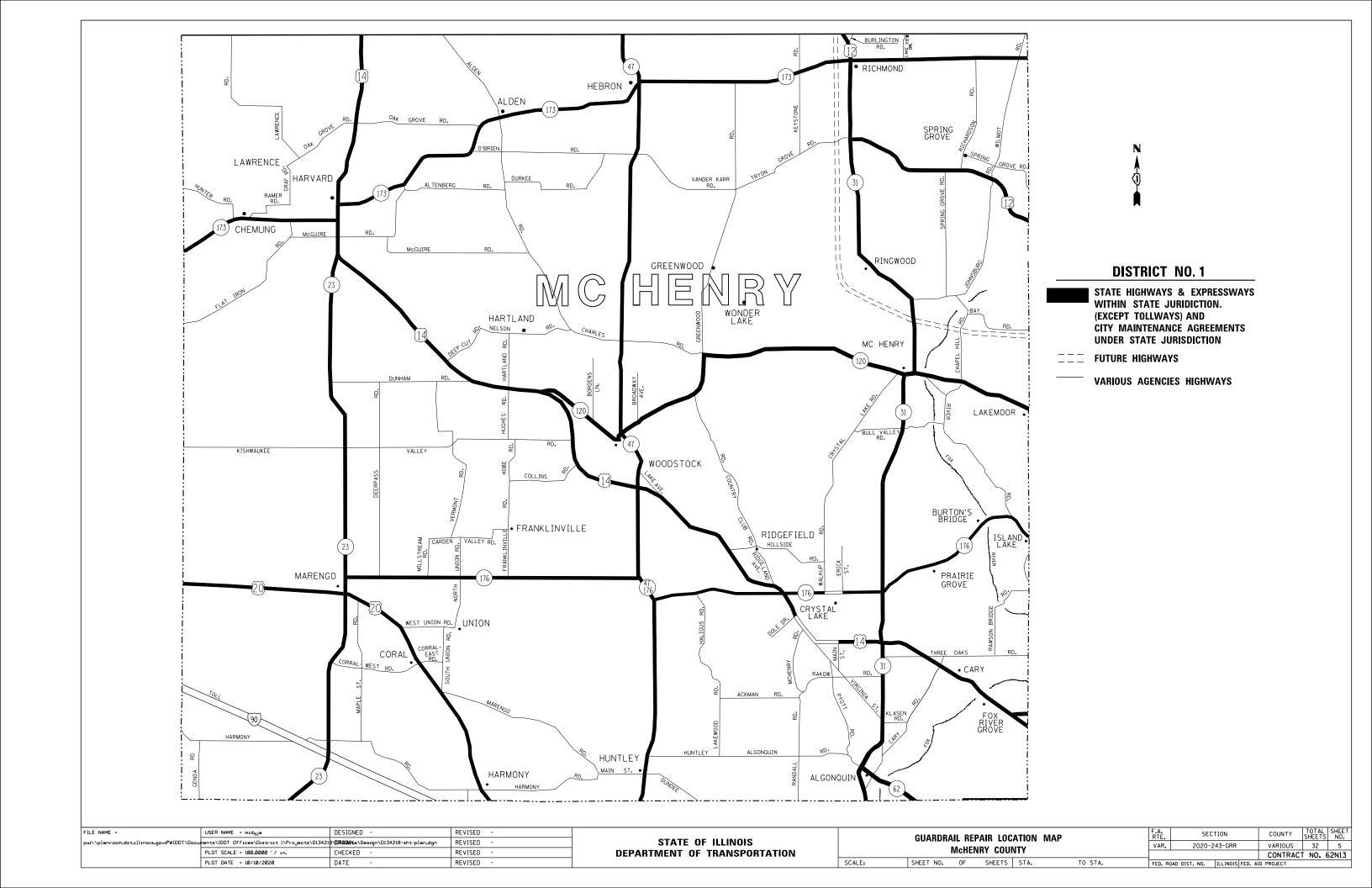
* MOVING LANE CLOSURES NOT PERMITTED ON EXPRESSWAYS

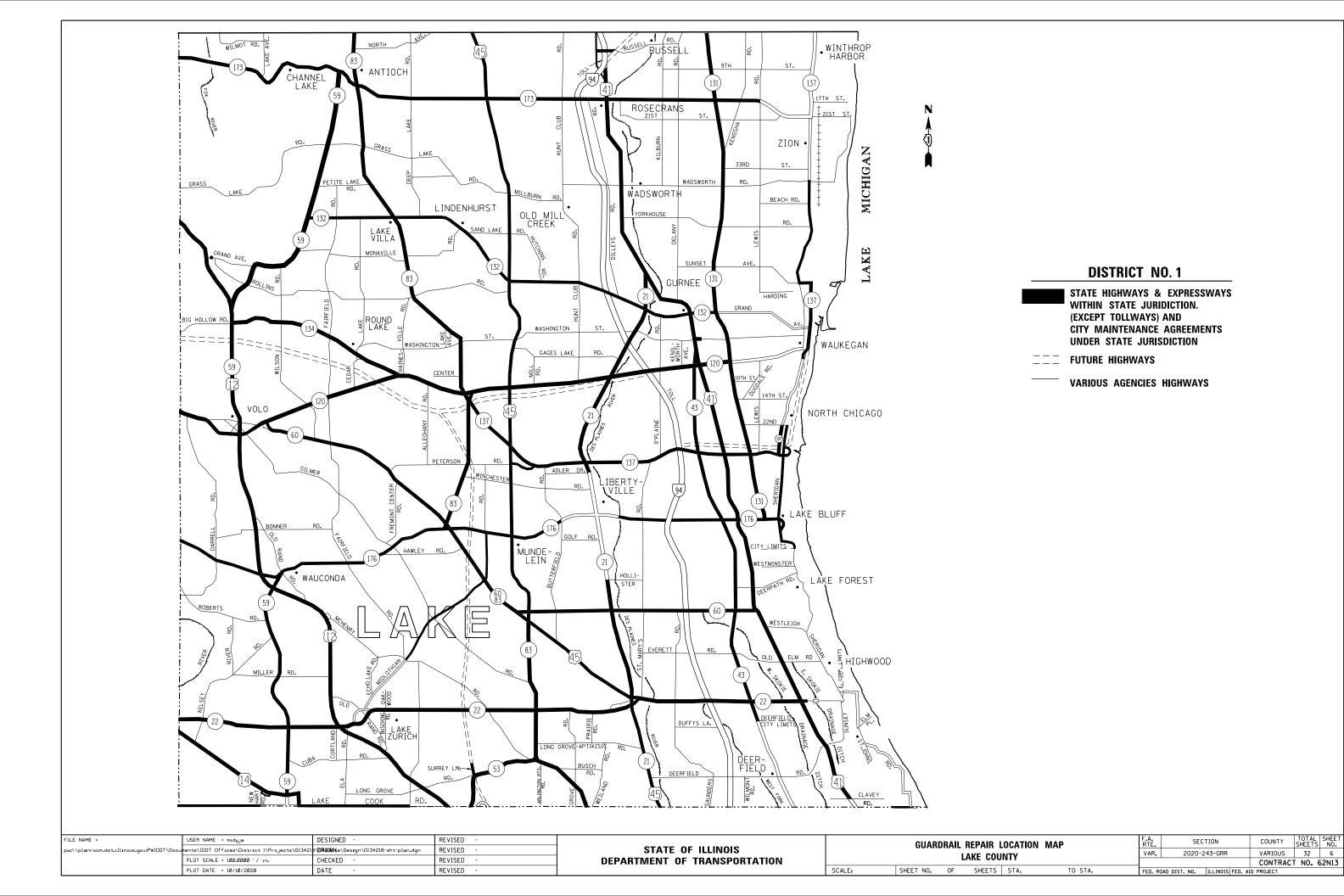
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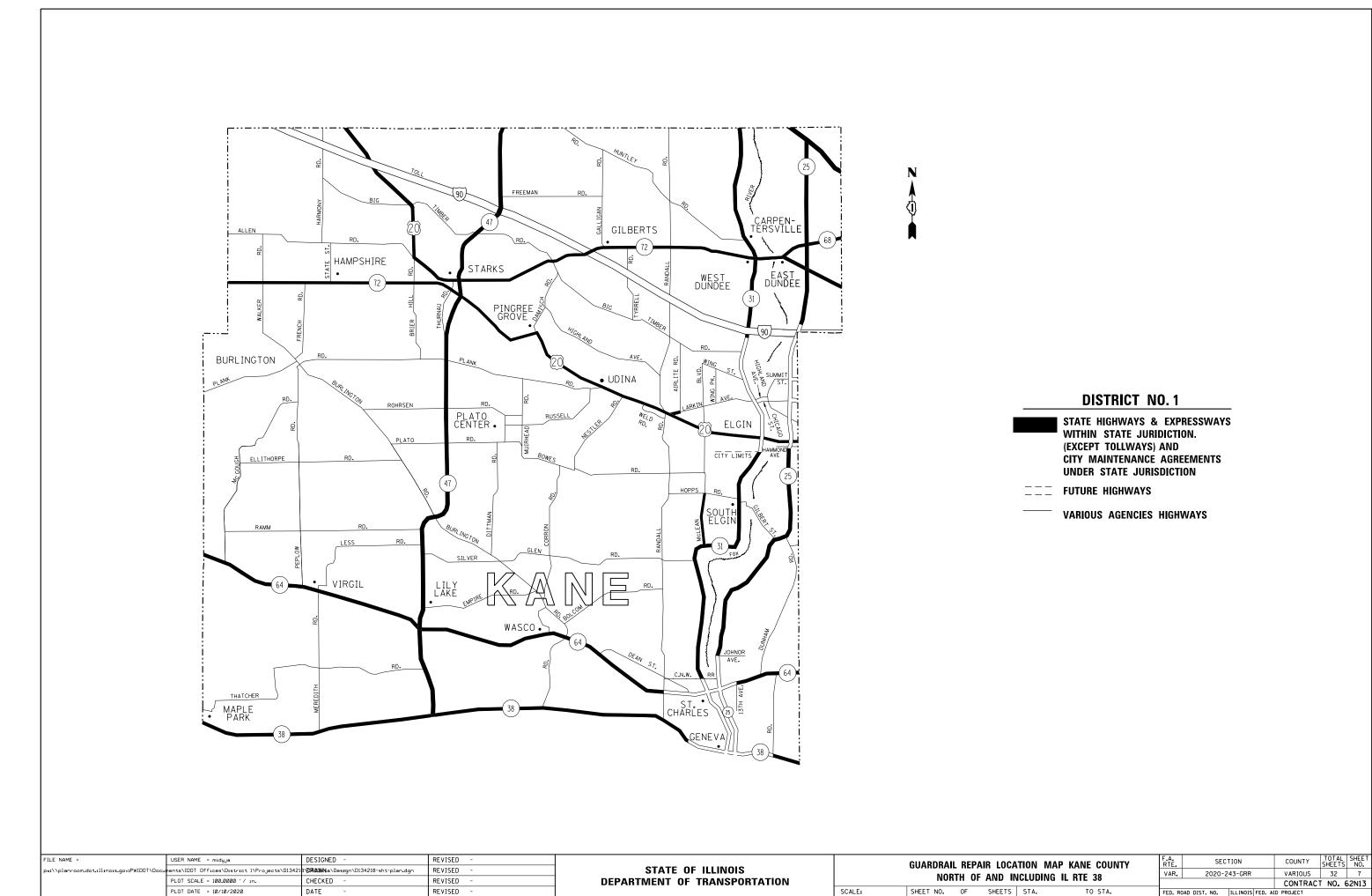
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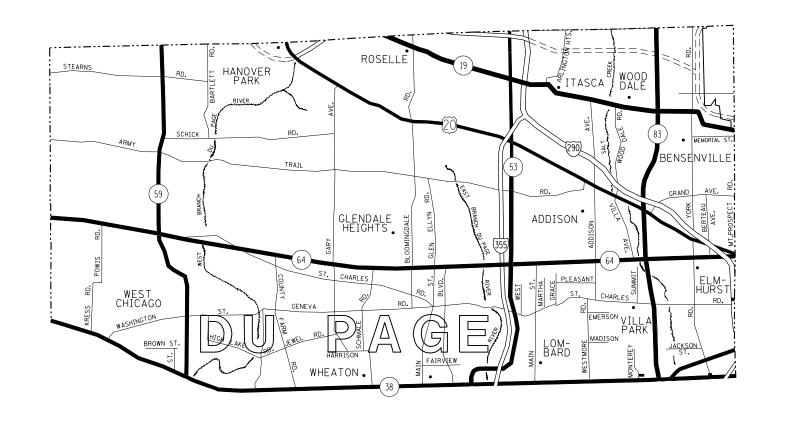
	SLIMMA	ARY OF QUANTITIES					STRUCTION TYPE CODE 0021		SUMMARY OF QUANTITIES		URBAN		(CONSTRUCTI	ON TYPE	CODE 0021	
CODE NO		ITEM	UNIT	URBAN TOTAL QUANTITIES	100% STATE 0021	100% STATE MCHD 0021		CODE NO	ITEM	UNIT	TOTAL	100% STATE 0021	100% STATE MCHD 0021				
63000001	STEEL PLATE B	BEAM GUARDRAIL, TYPE A, 6	FOOT	386	309	77		X6300222	CONNECTING END SECTION	EACH	3	2	1				
63100041	TRAFFIC BARRI	ER TERMINAL, TYPE 1B	EACH	3	2	1		x6300224	RETURN END SECTION	EACH	3	2	1				
63100045	TRAFFIC BARRI	ER TERMINAL, TYPE 2	EACH	11	9	2		x6300225	SINGLE END SECTION	EACH	17	14	3				
63100070	TRAFFIC BARRI	ER TERMINAL, TYPE 5	EACH	3	2	1		x6300230	STEEL POSTS	EACH	1262	1010	252				
63100085	TRAFFIC BARRI	ER TERMINAL, TYPE 6	EACH	6	5	1		x6300310	REMOVE AND REPLACE GUARDRAIL CHANNEL	EACH	66	53	13				
63100167	TRAFFIC BARRI	ER IERMINAL, TYPE 1	EACH	62	50	12		x6300610	THRIE BEAM GUARDRAIL ELEMENT PLATES	EACH	7	6	1				
	(SPECIAL) TAIN	NENT .															
63100169	TRAFFIC BARRI (SPECIAL) FLA	ER TERMINAL, TYPE 1	EACH	10	8	2		x6300620	THRIE-BEAM MODIFIED BLOCKS	EACH	7	6	1				
78200005	GUARDRAIL REF	LECTORS, TYPE A	EACH	506	405	101		x6300630	THRIE-BEAM POSTS	EACH	7	6	1				
72501000	TERMINAL MARK	ER - DIRECT APPLIED	EACH	23	18	5		X6300640	THRIE BEAM RADIUS ELEMENT PLATES	EACH	4	3	1				
x0321563	REPAIR TRAFFI	C BARRIER TERMINAL TYPE 1	EACH	322	258	64		x6310163	TRAFFIC BARRIER TERMINAL, TYPE 1, NOSE	EACH	10	8	2				
X2300001	MISSING OR FA	AILED ANCHOR CABLES	EACH	16	13	3		x6310177	TRAFFIC BARRIER TERMINAL, TYPE 3	EACH	4	3	1				
									(SPECIAL)								
x2300002	MISSING OR FA	AILED LAG BOLTS	EACH	16	13	3		x6310203	TRAFFIC BARRIER TERMINAL, TYPE 3 SPECIAL, NOSE	EACH	3	2	1				
X4402302	CURB REMOVAL	(PARTIAL)	FOOT	149	119	30		x6330800	GUARDRAIL POST VERTICAL ADJUSTMENT	EACH	23	18	5				
x6300210	GUARDRAIL BLO	OCKS	EACH	1631	1305	326		x6331105	STEEL POSTS, MODIFIED	EACH	29	23	6				
x6300215	RAIL ELEMENT	PLATES	EACH	2078	1662	416		x6331110	STEEL POSTS, SPECIAL	EACH	18	14	4				
x6300217	RAIL ELEMENT	PLATES (RADIUS)	EACH	111	89	22		Z0007124	STEEL RAILING (SPECIAL)	FOOT	55	44	11				REV-SEI
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CODE NO	ITEM	UNIT	QUANTITIES		STATE MCHD 0021		CODE NO	ITEM	UNIT QUANTITIES					
Z0029656	REPAIR TRAFFIC BARRIER TERMINAL TYPE 3 SPECIAL	EACH	9	7	2									
Z0029658	REPAIR TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL - POST	EACH	405	324	81									
Z0051400	REMOVING AND RESETTING POSTS	EACH	75	60	15									
Z0052100	REPAIR STEEL PLATE BEAM GUARDRAIL, TYPE B	FOOT	170	136	34									
Z0052200	REPAIR STEEL PLATE BEAM GUARDRAIL, TYPE C	FOOT	75	60	15									
Z0052400	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	9	7	2									
Z0052550	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 1B	EACH	3	2	1									
Z0052600	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	35	28	7									
Z0052900	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 4	EACH	4	3	1									
Z0053000	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	4	3	1									
Z0053200	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	5	4	1									
Z0059660	REPAIR TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL - RAIL ELEMENT PLATE	EACH	117	94	23									
Z0078000	WOOD RAIL	FOOT	360	288	72									
X2300019	REATTACHING AND REALIGNING TERMINALS AND RAIL ELEMENT PLATES	EACH	32	26	6									
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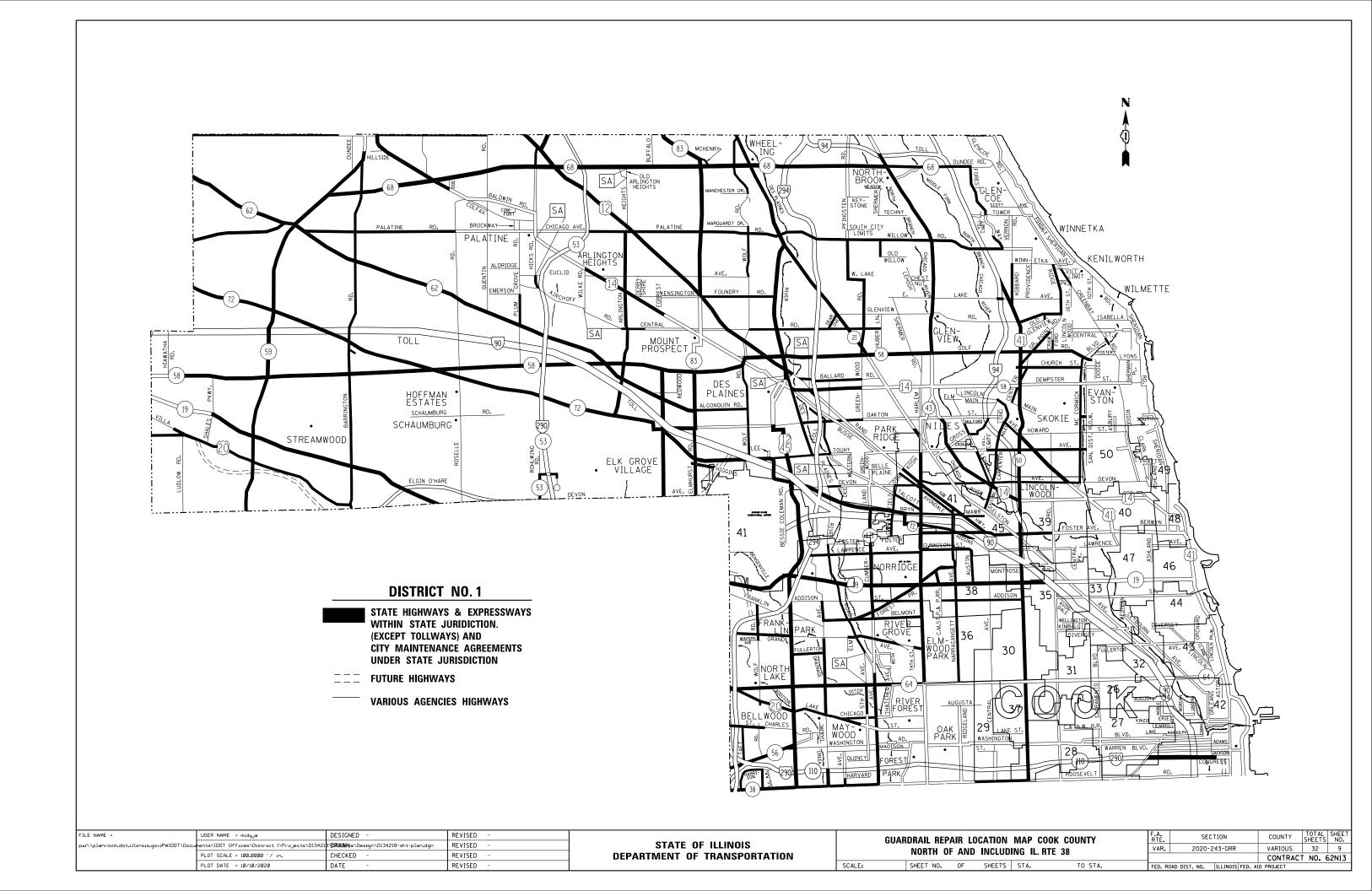


DISTRICT NO. 1

STATE HIGHWAYS & EXPRESSWAYS WITHIN STATE JURIDICTION.
(EXCEPT TOLLWAYS) AND CITY MAINTENANCE AGREEMENTS UNDER STATE JURISDICTION

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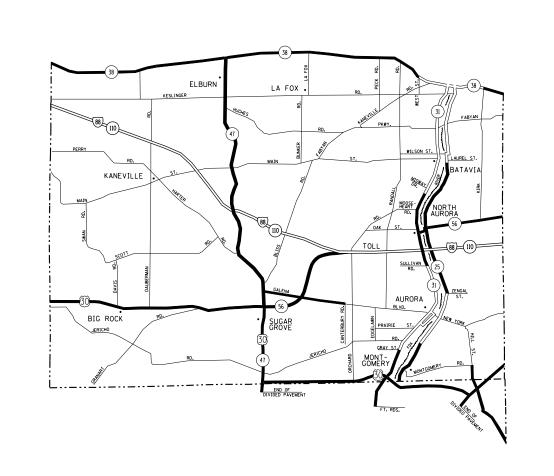


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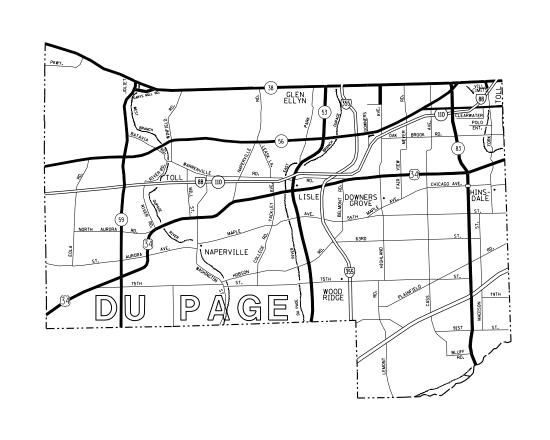




STATE HIGHWAYS & EXPRESSWAYS WITHIN STATE JURIDICTION.
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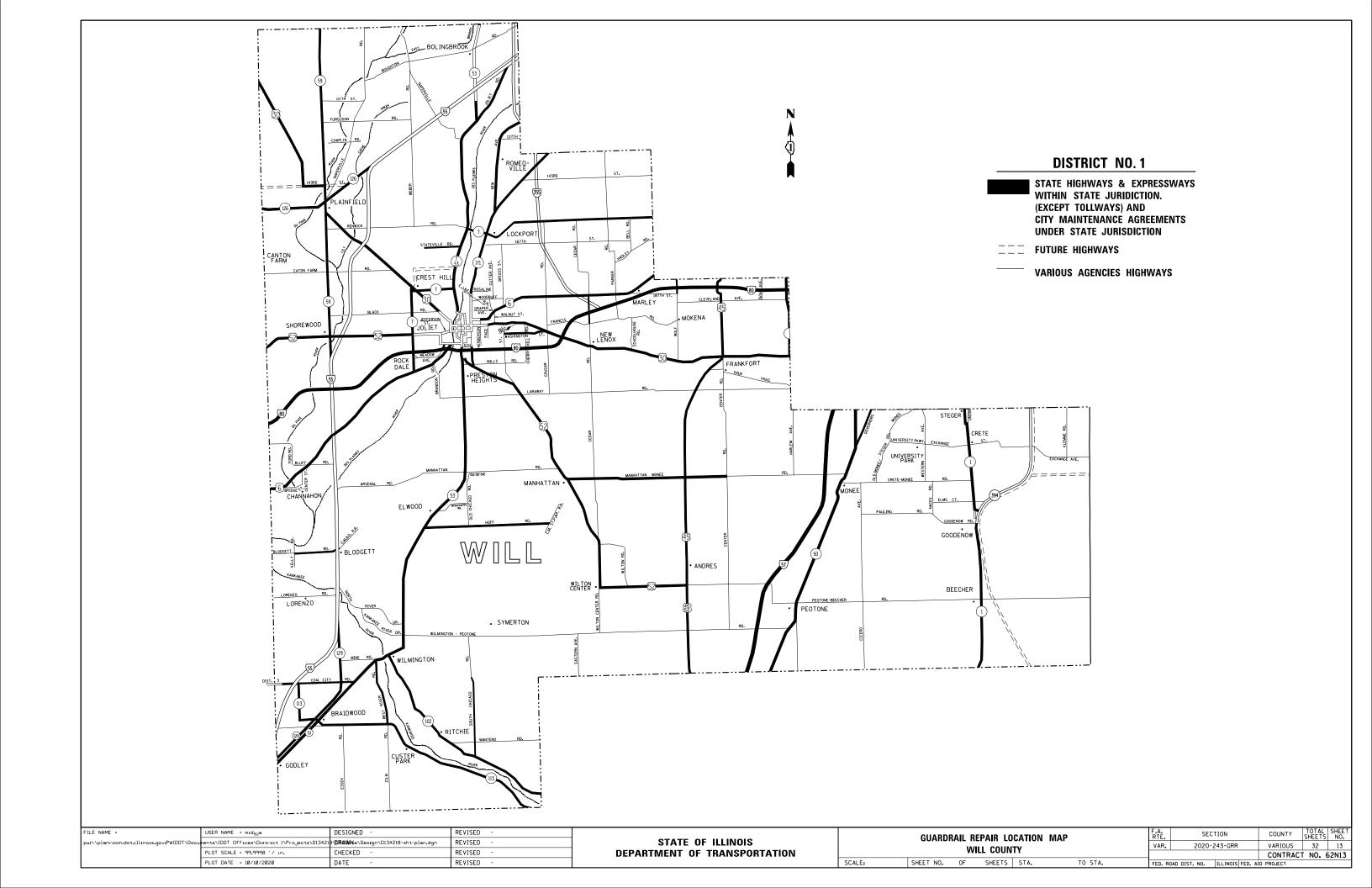


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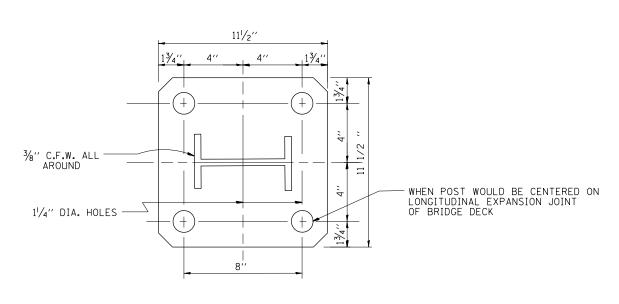
FOR DETAILS OF RAIL ELEMENTS, RAIL SPLICING, NUT, BOLT AND SIDE VIEW OF RAIL, SEE STANDARD 2230-2.

ALL WELDS SHALL BE GROUND SMOOTH

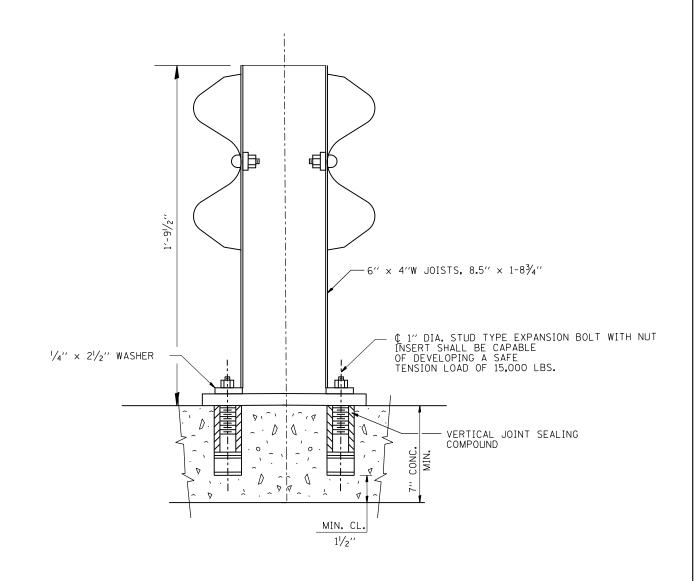
POSTS SHALL BE CUT AND WELDED TO THE BASE PLATE SO THAT THE POST WILL BE PLUMB WHEN ERECTED.

TWO PERCENT (2%) OF ALL ANCHOR BOLTS SHALL BE TEST LOADED IN PLACE, MINIMUM TEST LOAD=8 KIPS. IF ONE ANCHOR BOLT FAILS DURING THE TEST, TWO OTHER ANCHOR BOLTS SHALL BE TESTED. TESTING EQUIPMENT SHALL BE BOLT COMPANIES.

PROVIDE $1/8^{\prime\prime}$ AND $2/6^{\prime\prime}$ GALVANIZED SHIMS FOR 25% OF THE POSTS.





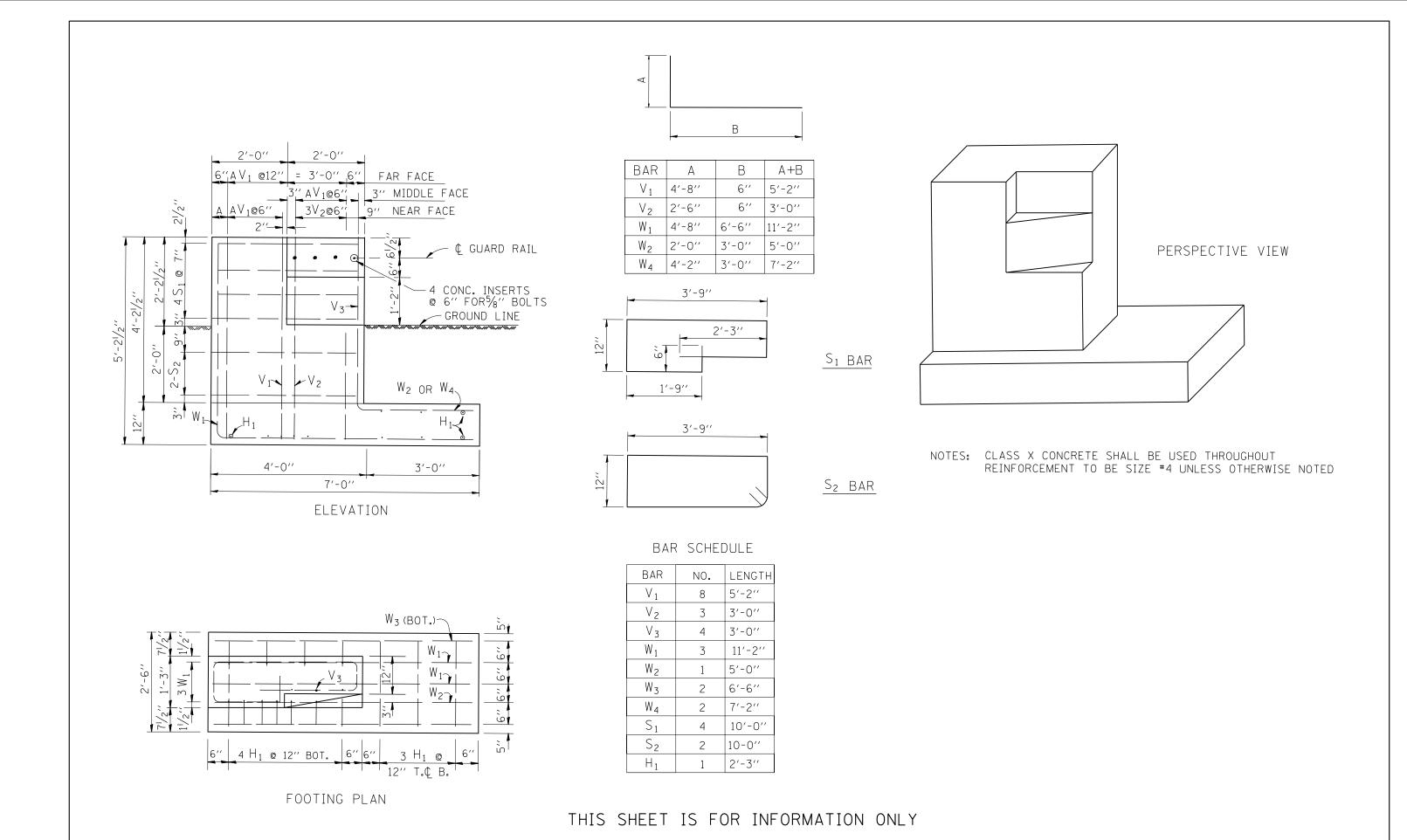


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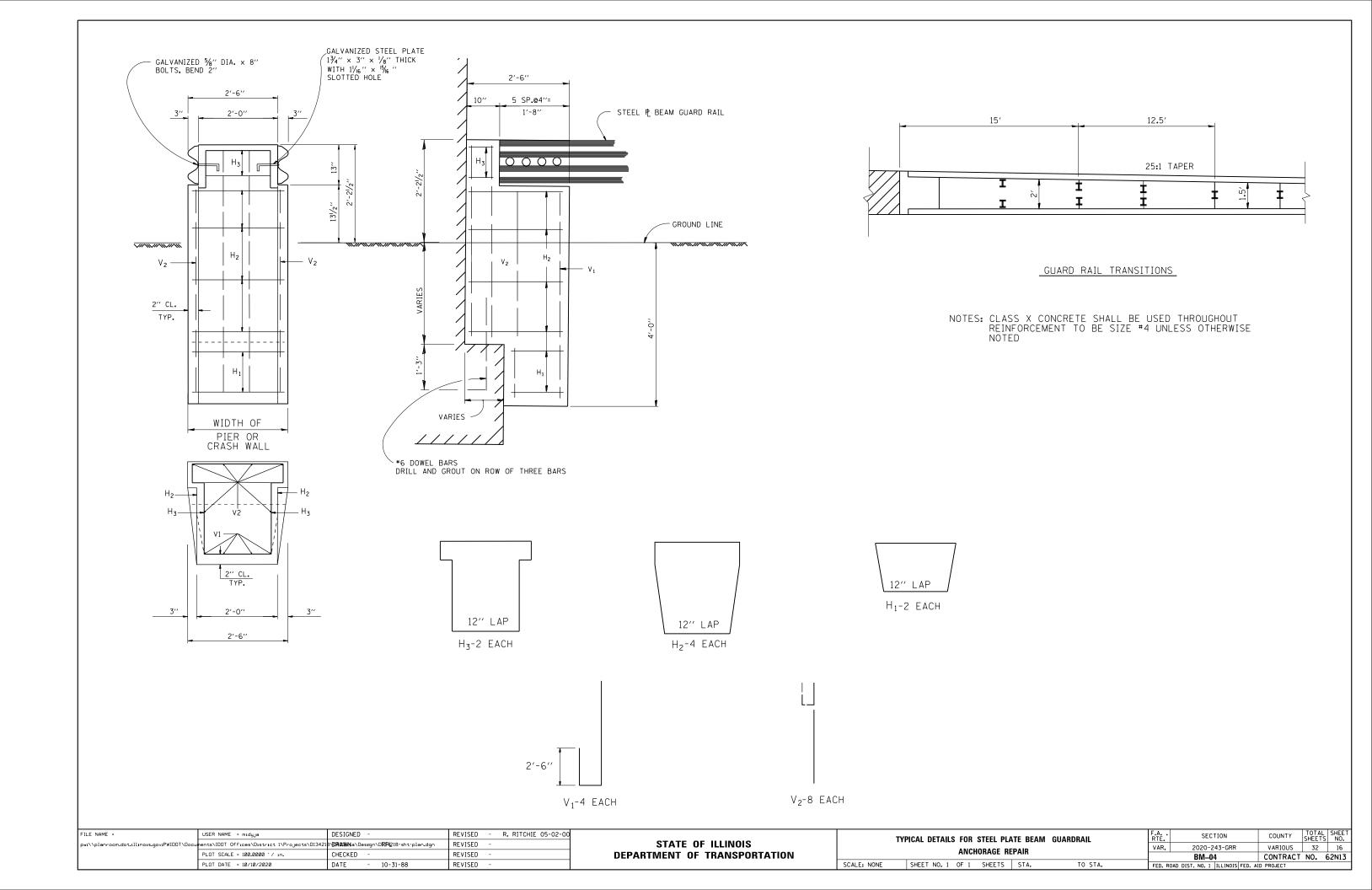
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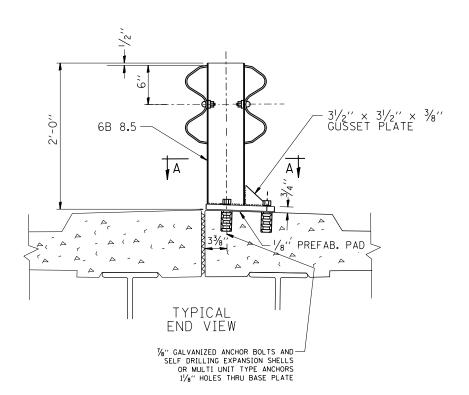
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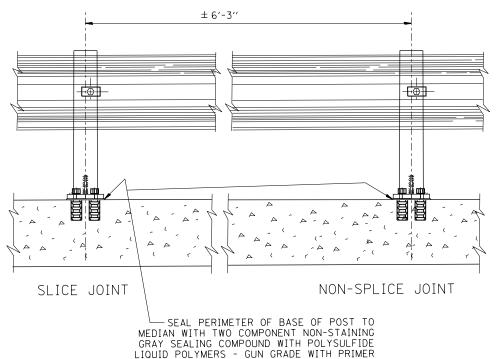
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UUANDN/	AIL ON CO	NUCHETE			BM-02	2	CONTRACT	NO.	62N13
SHEET NO. 1 OF 1	SHEETS	STA.	TO STA.	FED. R	OAD DIST. NO. 1	ILLINOIS FED. A	ID PROJECT		



FILE NAME =	USER NAME = midyja	DESIGNED -	REVISED - R. RITCHIE 06-02-00			TYPICAL DETAIL FOR	F.A	SECTION	COUNTY TOTAL SHEET
pw://planroom.dot.illinois.gov:PWIDOT/Docu	ments\IDOT Offices\District 1\Projects\D1342	1B \DRAWH\ a\Design\D RF42 18-sht-plan.dgn	REVISED -	STATE OF ILLINOIS		GUARDRAIL ANCHOR BLOCK REPAIR	VAR.	2020-243-GRR	VARIOUS 32 15
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		GUARDRAIL ANCHUR BLUCK REPAIR		BM-03	CONTRACT NO. 62N13
	PLOT DATE = 10/10/2020	DATE - 10-31-88	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIS	T. NO. 1 ILLINOIS FED. A	NID PROJECT





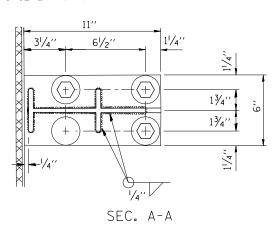


- 12' SECTION OF GUARDRAIL LOCATE AT ALL NON-SPLICE MOUNTING POINTS

GALVANIZED STEEL PLATE $1\frac{3}{4}$ " \times 3" \times $\frac{1}{8}$ " AT ALL POST MOUNTING BOLTS

NOTE:

DIAMOND TIPPED DRILL SHALL BE USED TO DRILL THRU REINFORCEMENT BARS



IOTE

POSTS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM DESIGNATIONS A-123 AND A-385.

TWO PERCENT (2%) OF ALL ANCHOR BOLTS SHALL BE TEST LOADED IN PLACE. MIN. TEST LOAD = 8 KIPS.

ALL BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION A-153.

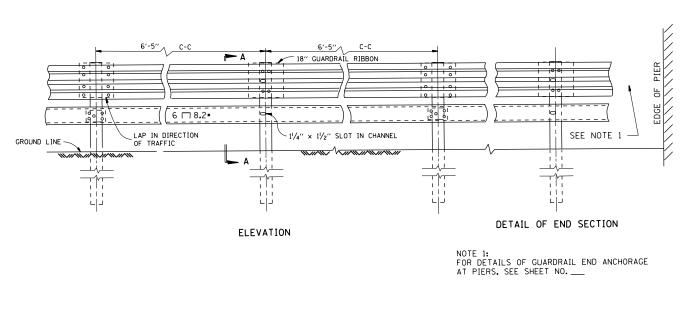
FOR MATERIAL COMPOSITION OF PREFABRICATED PAD, SEE ARTICLE 54.9(F), (BEARING AND ANCHORAGE), OF THE STANDARD SPECIFICATIONS.

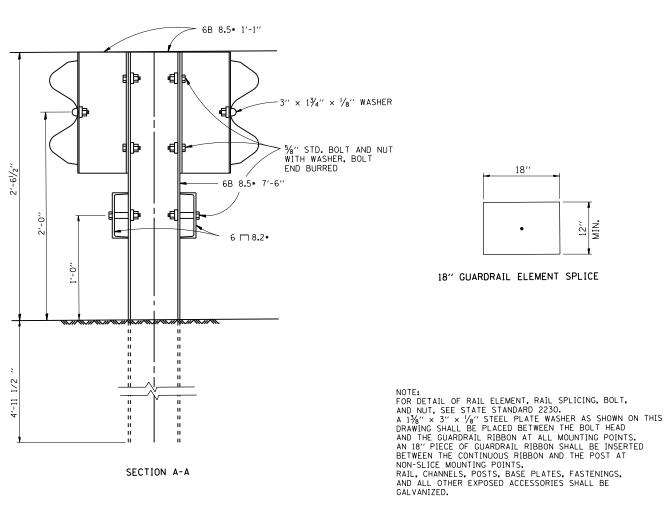
PROVIDE 1-1/8" AND 2-1/16" GALVANIZED STEEL SHIMS FOR 25% OF THE POSTS.

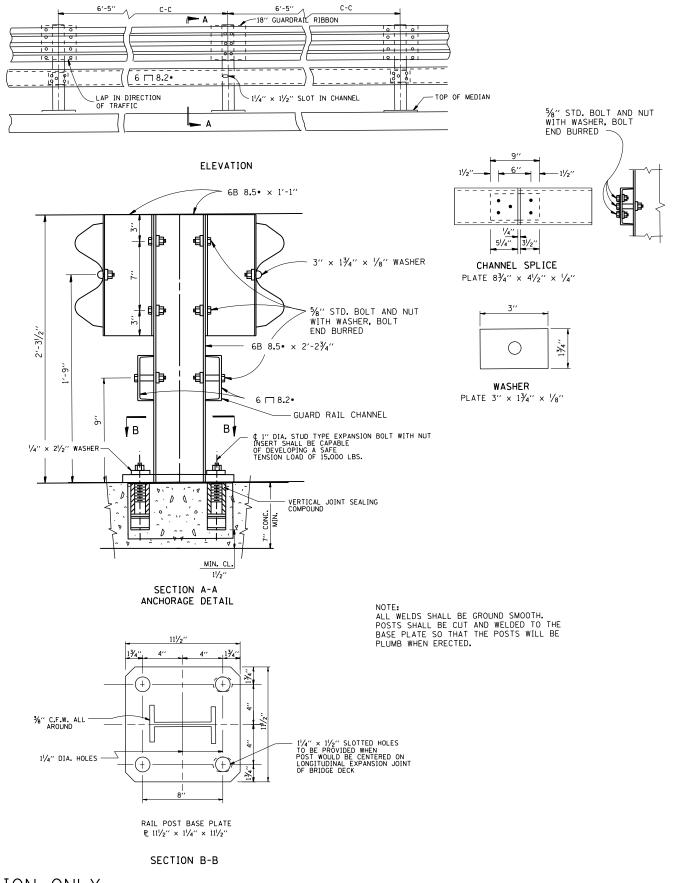
IF ONE ANCHOR BOLT FAILS DURING TEST, TWO OTHER ANCHOR BOLTS SHALL BE TESTED. TESTING EQUIPMENT CAN BE OBTAINED FROM BOLT COMPANIES



FILE NAME	=	USER NAME = midyja	DESIGNED -	REVISED - R. RITCHIE 05-02-00			TYPICAL DETAIL FOR CENTER LONGITUDINAL JOINT	F.A	SECTION	COUNTY	TOTAL	SHEET NO.
pw:\\planro	oom.dot.illinois.gov:PWIDOT\Docu	nents\IDOT Offices\District 1\Projects\D13421	BYDRIANHNa\Design\DRF4218-sht-plan.dgn	REVISED -	STATE OF ILLINOIS			VAR.	2020-243-GRR	VARIOUS	32	17
		PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		GUARDRAIL JOINT		BM-05	CONTRACT	NO. 6	2N13
		PLOT DATE = 10/10/2020	DATE - 10-31-88	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED. AI	D PROJECT		

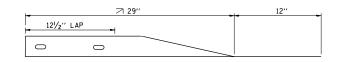


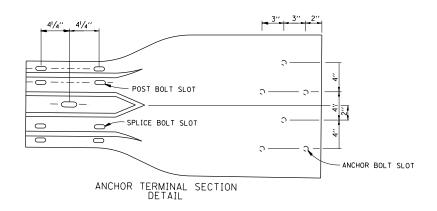


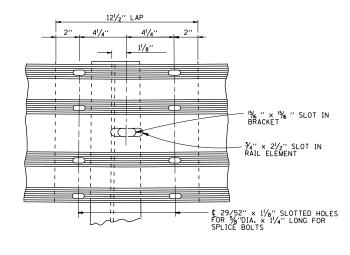


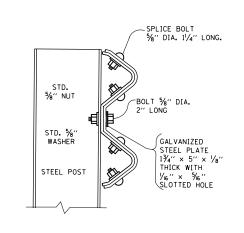
THIS SHEET IS FOR INFORMATION ONLY

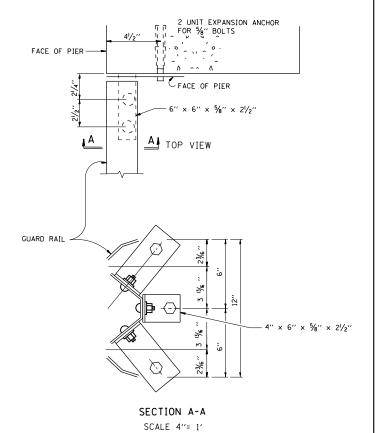
FILE NAME =	USER NAME = midyja	DESIGNED -	REVISED - R. RITCHIE 05-02-00			STEEL PLATE BEAM GUARDRAIL	RTF.	SECTION	COUNTY	SHEETS NO.
pw:\\planroom.dot.illinois.gov:PWIDOT\Docum	nents\IDOT Offices\District 1\Projects\D13421	B ORAMN a\Design\D RF4 218-sht-plan.dgn	REVISED -	STATE OF ILLINOIS			VAR.	2020-243-GRR	VARIOUS	32 18
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		SPECIAL		BM-06	CONTRACT	NO. 62N13
	PLOT DATE = 10/10/2020	DATE -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROA	D DIST. NO. 1 ILLINOIS FED. A		



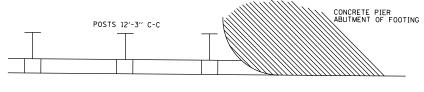


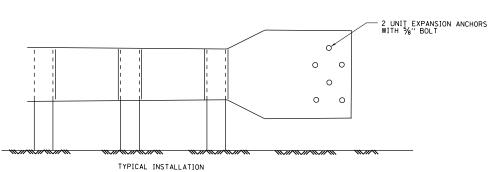






DETAIL OF CONNECTION OF GUARDRAIL TO SQUARE BRIDGE PIER OR FOUNDATION.

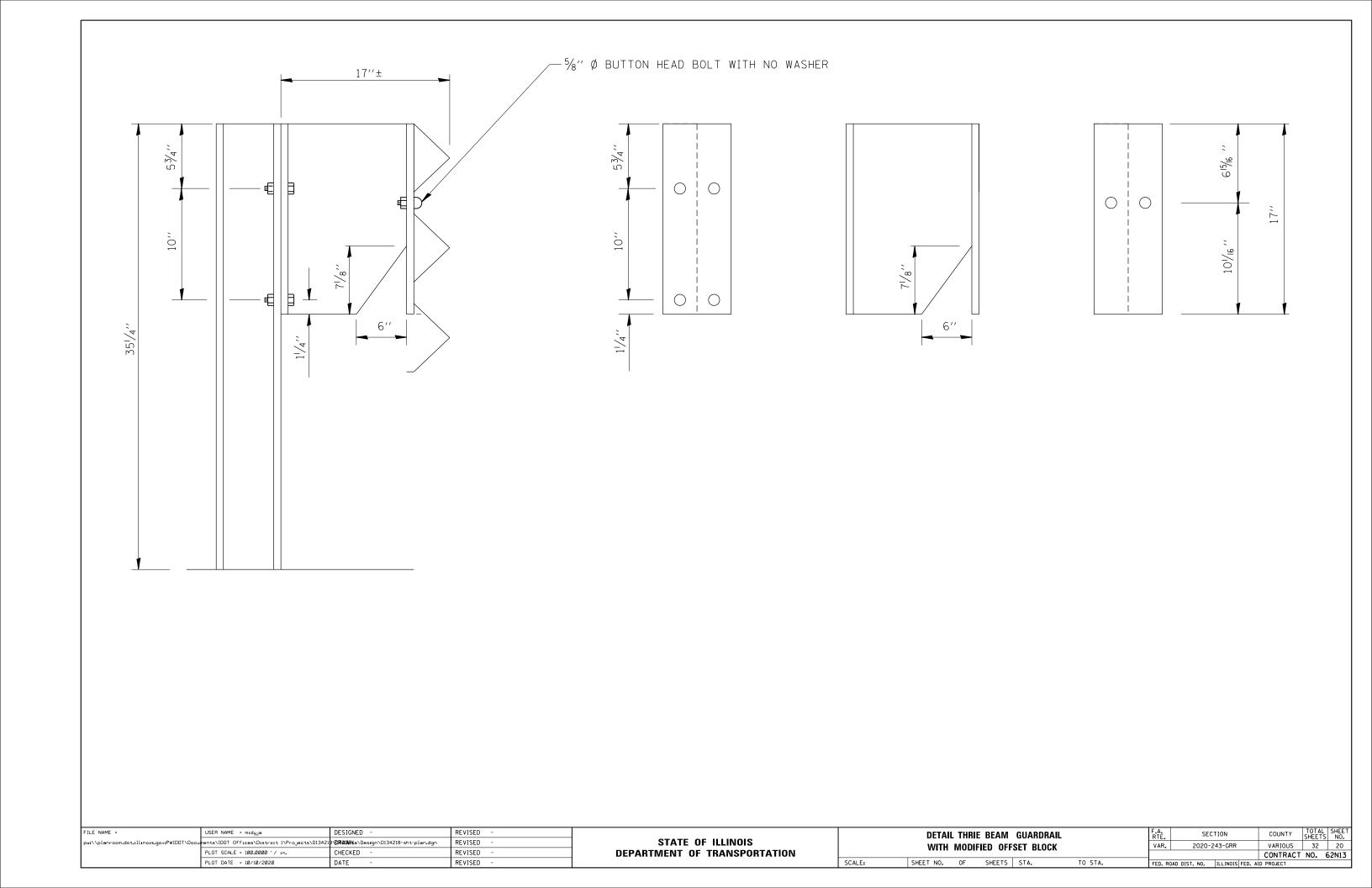


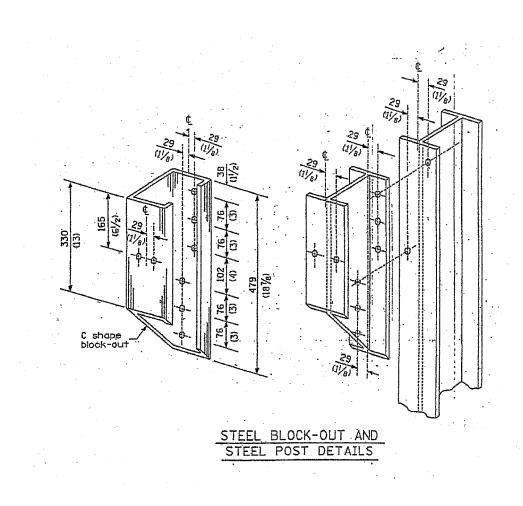


DETAIL OF CONNECTION OF GUARDRAIL TO ROUNDED BRIDGE PIER OR FOUNDATION

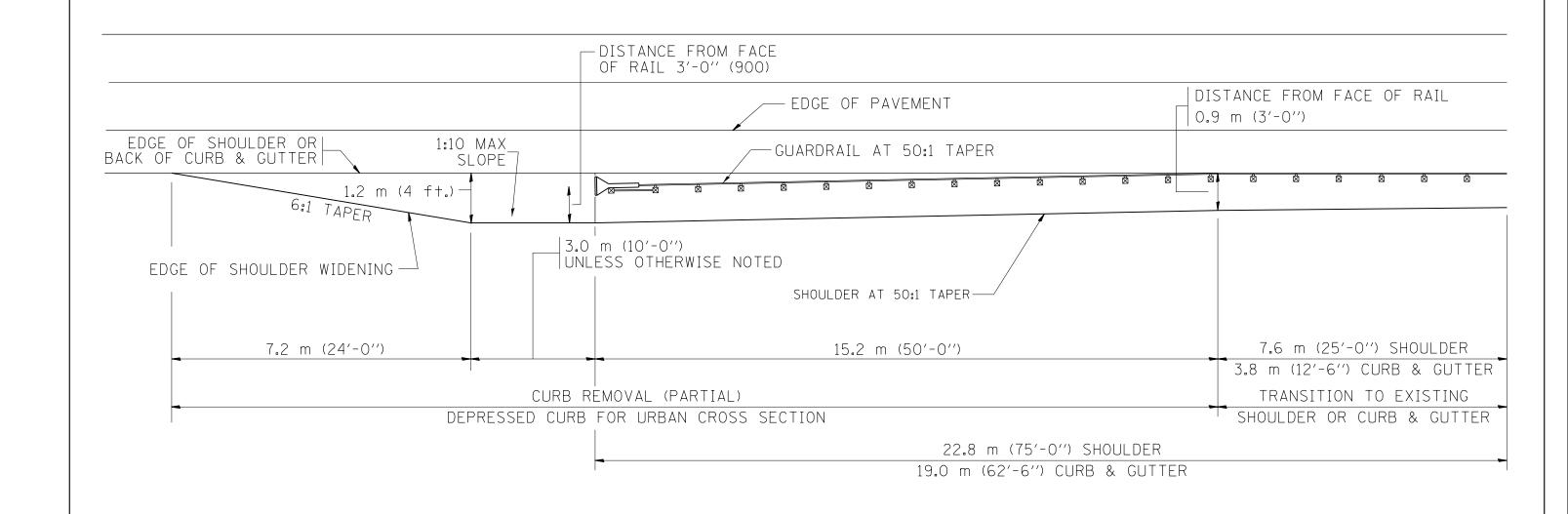
THIS SHEET IS FOR INFORMATION ONLY

FILE NAME =	USER NAME = midyja	DESIGNED -	REVISED - R. RITCHIE 05-02-00		DETAIL OF GUARDRAIL SUPPORT	F.A RTF.	SECTION	COUNTY TOTAL	AL SHEET TS NO.
pw:\\planroom.dot.illinois.gov:PWIDOT\Do	•	D134218\DRAWN.a\Design\DRA218-sht-plan.dgn	REVISED -	STATE OF ILLINOIS	AND END ANCHORAGE	VAR.	2020-243-GRR	VARIOUS 32	19
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION			BM-07	CONTRACT NO.	62N13
	PLOT DATE = 10/10/2020	DATE - 10-31-88	REVISED -		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED.	AID PROJECT	





FILE NAME =	USER NAME = midyja	DESIGNED -	REVISED -			STE	FI PLATE	F RFAM	GUARDRAIL		F.A. RTF.	SECTION	COUNTY	TOTAL SHEET
pw:\\planroom.dot.illinois.gov:PWIDOT\Doc	uments\IDOT Offices\District 1\Projects\D1342	18 OR MANN a \ Destgn\D134218-sht-plan.dgn	REVISED -	STATE OF ILLINOIS				LOCK-OUT			VAR.	2020-243-GRR	VARIOUS	32 21
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION			SIEEL BL	LUCK-UU I	DETAIL				CONTRACT	NO. 62N13
Default	PLOT DATE = 10/10/2020	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	D PROJECT	

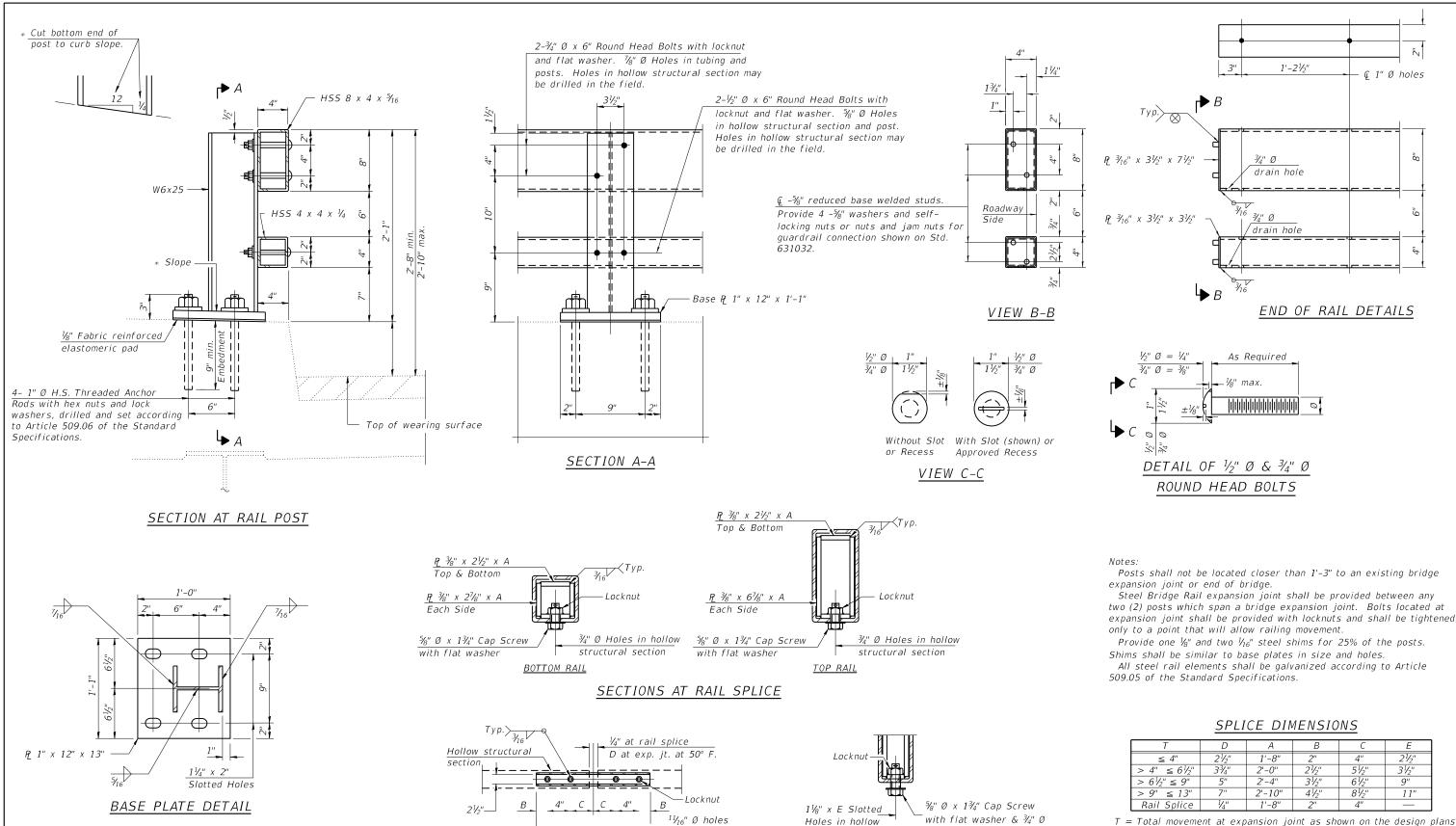


NOTES: THE CONTRACTOR SHALL VERIFY THE TYPE/HEIGHT OF GUARDRAIL IN-PLACE BEFORE ORDERING THE NEW TERMINAL SECTION.

COST INCLUDED WITH THE COST OF THE TERMINAL. THE TERMINAL SECTION HEIGHT TO BE PLACED MUST MATCH THE HEIGHT OF THE IN-PLACE GUARDRAIL.

SHOULDER WIDENING SHALL BE IN ACCORDANCE WITH STATE STANDARD 630301

FILE NAME =	USER NAME = midyja	DESIGNED -	REVISED -			CL	IRB REM	OVAL (P	ARTIAL) FO)R	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	ISPEEL
pw:\\planroom.dot.illinois.gov:PWIDOT\De	ocuments\IDOT Offices\District I\Projects\	D13421B \ORANH\ a\Des t gn\D134218-sht-pla	n-dgn REVISED -	STATE OF ILLINOIS				•	AL, TYPE 1		VAR.	2020-243-GRR	VARIOUS	32	22
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		INAFFIC	PANNIEN	IENIVIIIN	AL, ITPE I	SPECIAL			CONTRACT	T NO.	62N13
Default	PLOT DATE = 10/10/2020	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	S STA.	TO STA.		ILLINOIS FED.	AID PROJECT		



SPLICE DIMENSIONS

1'-21/2"

3∕4" Ø drain hole

¾" Ø

As Required

½" max.

ROUND HEAD BOLTS

/drain hole

END OF RAIL DETAILS

© 1" Ø holes

T	D	Α	В	С	Ε
≤ 4"	21/2"	1'-8"	2"	4"	21/2"
> 4" \le 6\frac{1}{2}"	3¾"	2'-0"	21/2"	5½"	31/2"
$> 6\frac{1}{2}$ " ≤ 9 "	5"	2'-4"	31/2"	6½"	9"
> 9" ≤ 13"	7"	2'-10"	41/2"	8½"	11"
Rail Splice	1/4"	1'-8"	2"	4"	_

T = Total movement at expansion joint as shown on the design plans.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type 2399	Foot	

(6'-3" Maximum Post Spacing)

R-31

2-17-2017

FILE NAME =	USER NAME = midyja	DESIGNED -	REVISED -			ST	EEL RA	ILING, TY	/PE 2399		F.A. RTF.	SECT		COUNTY	TOTAL S	NO.
pw:\\planroom.dot.illinois.gov:PWIDOT\Docu	ments\IDOT Offices\District 1\Projects\D134	213/CRANHNa\Design\D134218-sht-plan.dgn	REVISED -	STATE OF ILLINOIS			STRI	UCTURE	NO		VAR.	2020-24	43-GRR	VARIOUS	32	23
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION			31110	OUTUIL	NO.					CONTRACT	NO. 62	N13
	PLOT DATE = 10/10/2020	DATE -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. ROAD	DIST. NO.	ILLINOIS FED. AI	D PROJECT		

in ¾" ₽_

PLAN-BOTT. SPLICE P

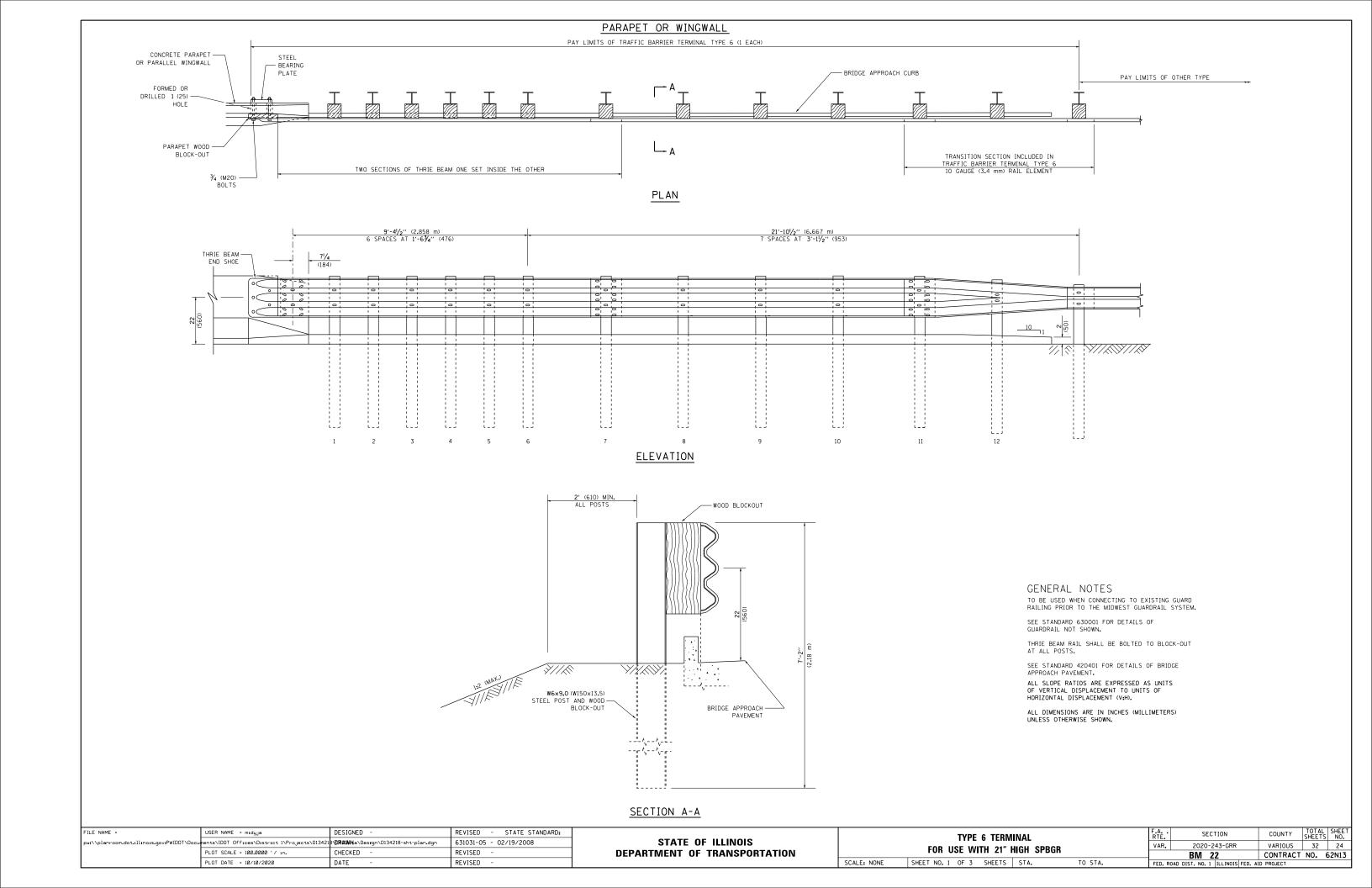
TYPICAL

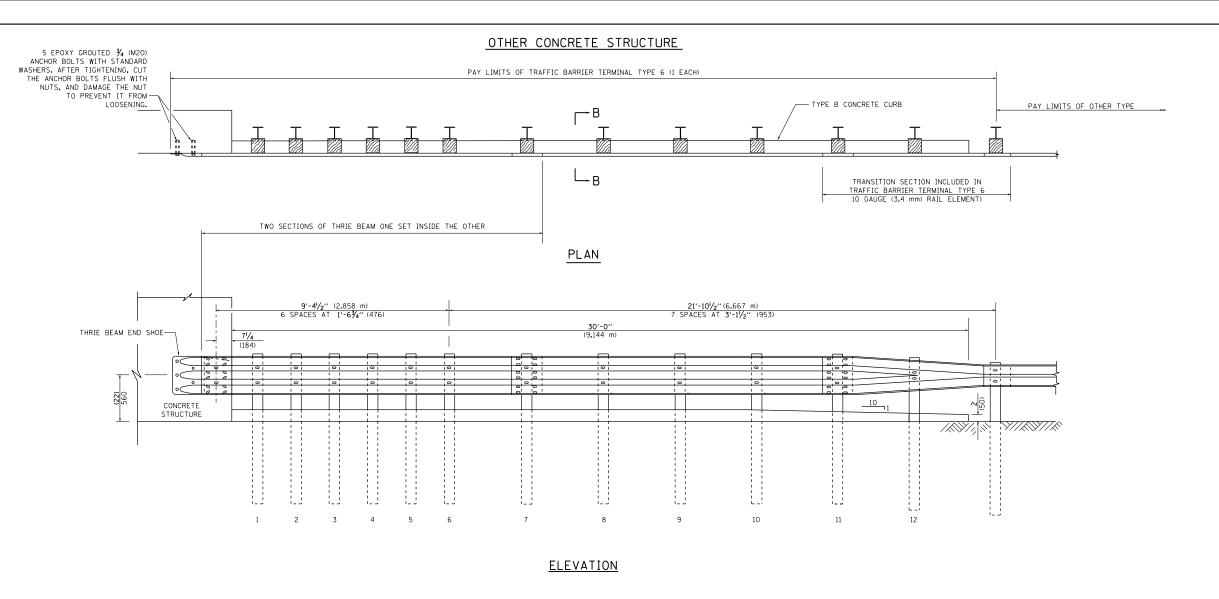
structural section

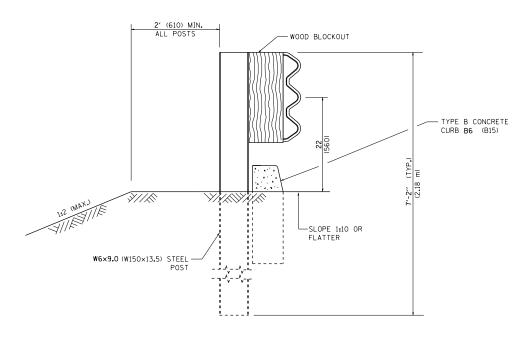
RAIL SPLICE CONNECTION

AT EXPANSION JT.

XS pipe spacer, 1/2" long.

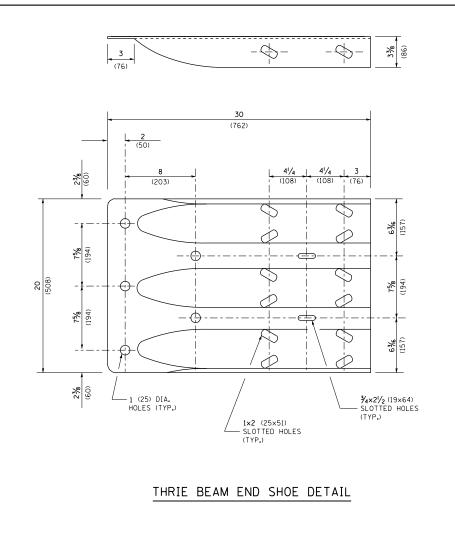


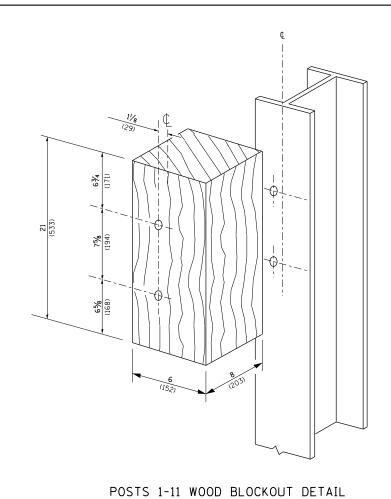




SECTION B-B

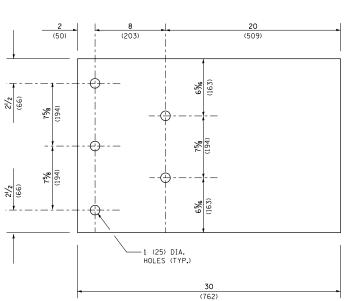
	FILE NAME =	USER NAME = midyja	DESIGNED -	REVISED - STATE STANDARD:			TYPE 6 TERMINAL	RTF.	SECTION	COUNTY	SHEETS NO.
	pw:\\planroom.dot.illinois.gov:PWIDOT\Docum	ents\IDOT Offices\District 1\Projects\D13421	BY DRAMM: a\Design\D134218-sht-plan.dgn	631031-05 - 02/19/2008	STATE OF ILLINOIS			VAR.	2020-243-GRR	VARIOUS	32 25
		PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		FOR USE WITH 21" HIGH SPBGR		BM 22		T NO. 62N13
L		PLOT DATE = 10/10/2020	DATE -	REVISED -		SCALE: NONE	SHEET NO. 2 OF 3 SHEETS STA. TO STA.	FED. ROA		D PROJECT	

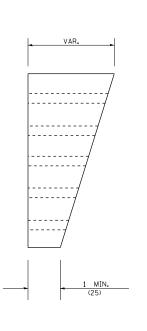


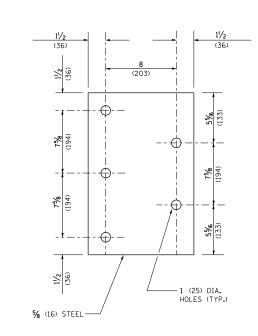


(432) (432) (165) (165) (165) (165) (165) (165) (165)

POST 12 WOOD BLOCKOUT DETAIL





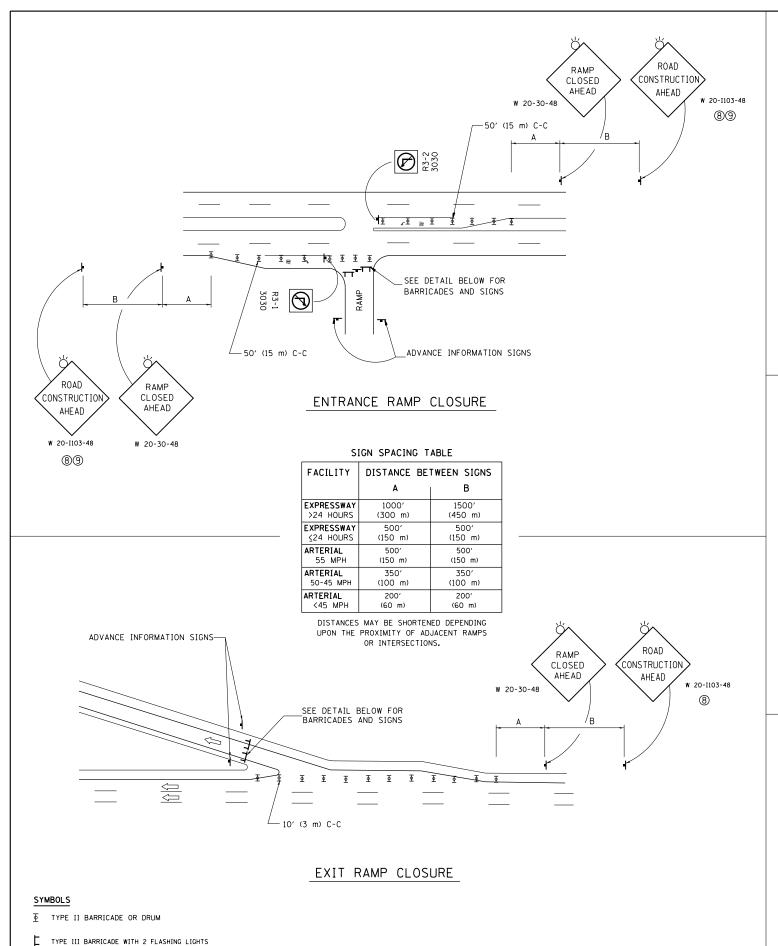


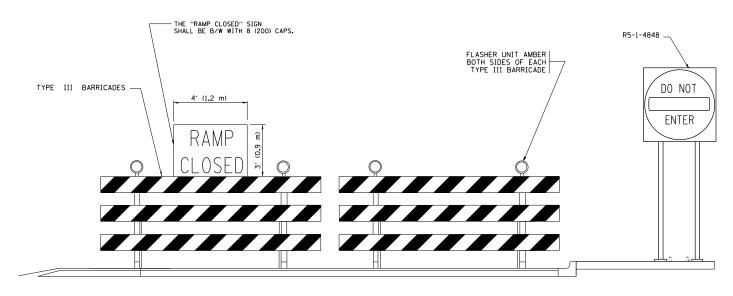
PARAPET WOOD BLOCK-OUT DETAIL

PARAPET STEEL BEARING PLATE DETAIL

(5 EACH INDIVIDUAL 5x5x (125x125x16) STEEL PLATES WITH CENTERED 1 (25) HOLES MAY BE SUBSTITUTED FOR THE PLATE SHOWN.)

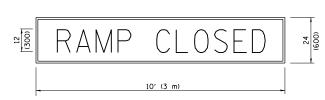
FILE NAME =	USER NAME = midyje	DESIGNED -	REVISED - STATE STANDARD:		TYPE 6 TERMINAL	F.A	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
pw:\\planroom.dot.ıllınoıs.gov:PWIDOT\Docu	ments\IDOT Offices\District 1\Projects\Di3421	18\ DRAMM\ a\Design\D134218-sht-plan.dgn	631031-05 - 02/19/2008	STATE OF ILLINOIS		VAR.	2020-243-GRR	VARIOUS	32 26
	PLOT SCALE = 100.0000 ' / 10.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	FOR USE WITH 21" HIGH SPBGR		BM 22		NO. 62N13
	PLOT DATE = 10/10/2020	DATE -	REVISED -		SCALE: NONE SHEET NO. 3 OF 3 SHEETS STA. TO STA.	FED. ROA	D DIST. NO. 1 ILLINOIS FED. A	ID PROJECT	





DETAIL FOR REQUIRED BARRICADES & SIGNS

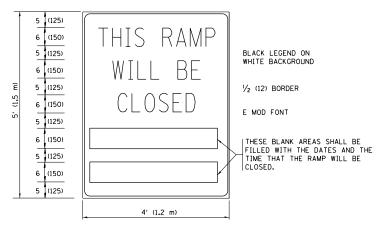
RAMP CLOSURE ADVANCE INFORMATION SIGN



RAMP CLOSURE ADVANCE WARNING SIGN

BLACK LEGEND ON ORANGE
BACKGROUND MOUNTED
DIAGONALLY
E MOD FONT
1 (25) BORDER
SIGNS ARE REQUIRED ON ALL THE EX

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.



THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

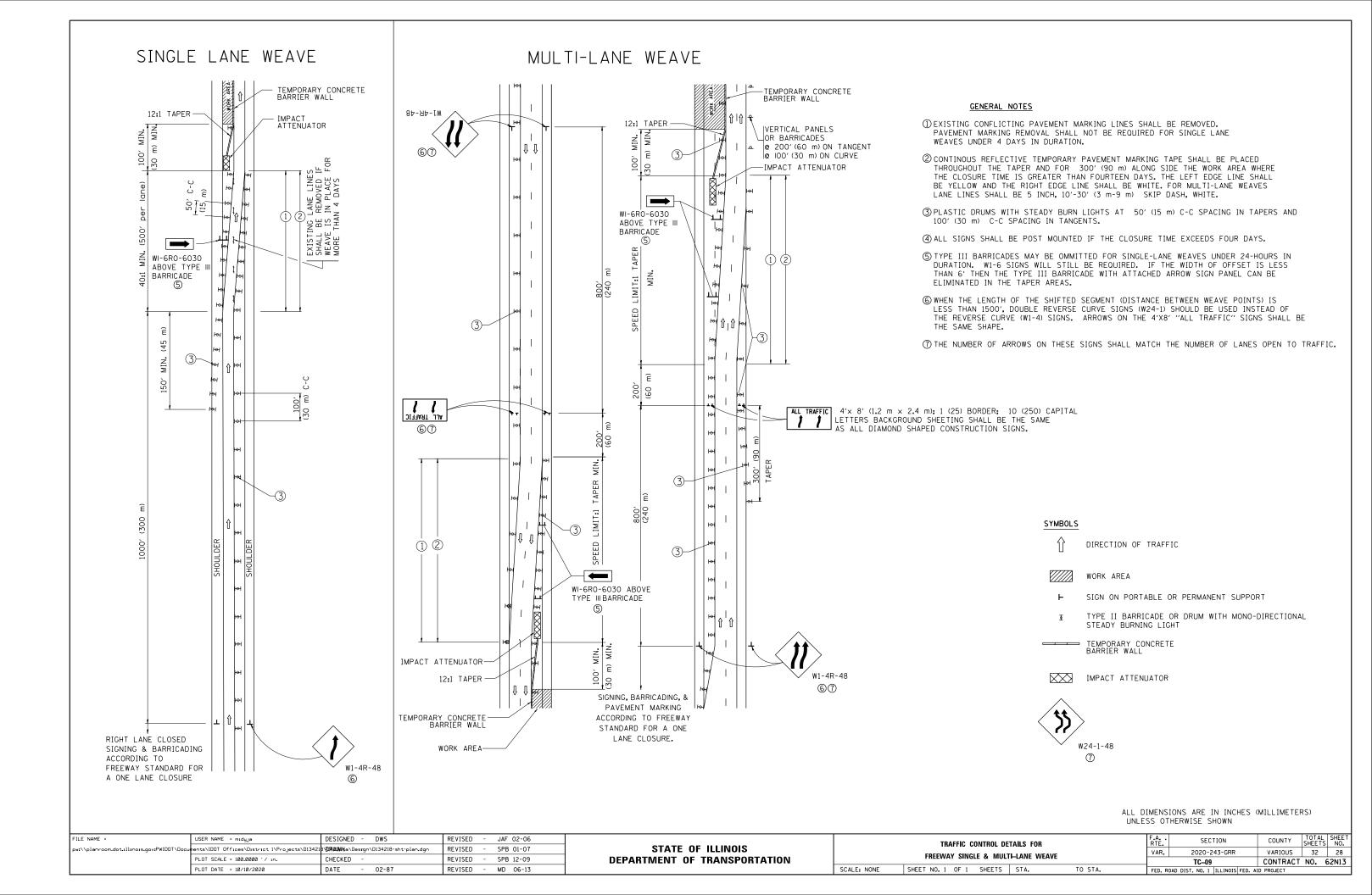
GENERAL NOTES:

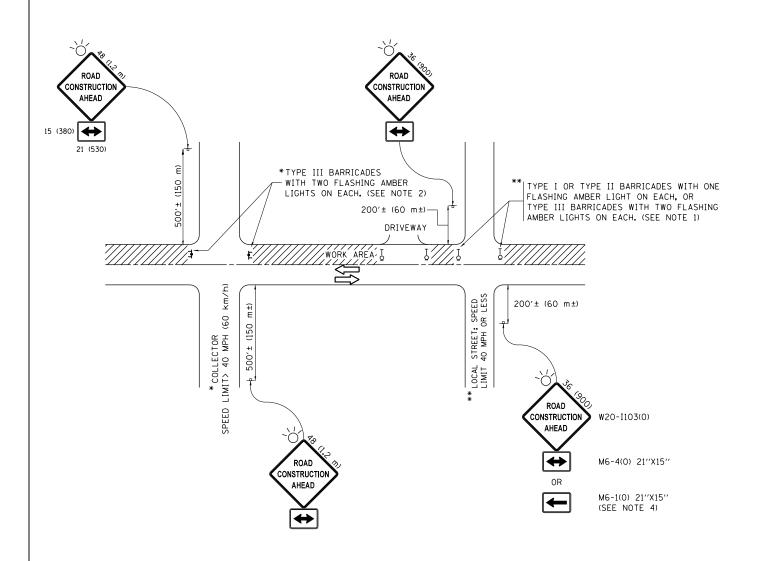
- ① CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II
 BARRICADES DURING DAY OPERATIONS. CONES SHALL BE
 A MINIMUM OF 28 (700) HIGH.
- (2) VERTICAL BARRICADES SHALL NOT BE USED FOR RAMP CLOSURES.
- (3) A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEEDED BY A W20-7 FLAGGER WARNING SIGN.
- 4 ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
- (5) THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).

- 6 AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- (7) THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED FOUR (4) DAYS IN LENGTH
- (8) ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = midyja	DESIGNED - D.W.S.	REVISED - S.P.B. 01-07		ENTRANCE AND EXIT RAMP	F.A.	SECTION	COUNTY TOTAL	SHEET
pw:\\planroom.dot.illinois.gov:PWIDOT\Doc	uments\IDOT Offices\District 1\Projects\D1342	13 (IRANAN a \ Des i gn \ D134218-sht-plan.dgn	REVISED - S.P.B. 12-09	STATE OF ILLINOIS	CLOSURE DETAILS	VAR.	2020-243-GRR	VARIOUS 32	27
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - M.D. 06-13	DEPARTMENT OF TRANSPORTATION	CLUSUNE DETAILS		TC-08	CONTRACT NO.	62N13
Default	PLOT DATE = 10/10/2020	DATE - 02-83	REVISED - M.D. 01-18		SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.		TILLINOIS FED. A	ID PROJECT	





NOTES:

- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500" (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEICHT
- 4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

- 5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- 6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINFER.
- 7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

FILE NAME =	USER NAME = midyja	DESIGNED - L.H.A.	REVISED	- A. HOUSEH 10-15-96
pw://planroom.dot.illinois.gov:PWIDOT/Docu	nents\IDOT Offices\District 1\Projects\D13421	BVDRAMMa\Destgn\D134218-sht-plan.dgn	REVISED	-T. RAMMACHER 01-06-00
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED	- A. SCHUETZE 07-01-13
Default	PLOT DATE = 10/10/2020	DATE - 06-89	REVISED	- A. SCHUETZE 09-15-16

STATE OF ILLINOIS										
DEPARTMENT	0F	TRANSPORTATION								

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS											
SCALE: NONE	SHEET 1	OF 1	SHEETS	STA.	TO STA.						

	TILLINOIS FED. AT	D PROJECT					
	TC-10	CONTRACT	NO. 6	52N13			
VAR.	2020-243-GRR	VARIOUS	32	29			
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.			

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

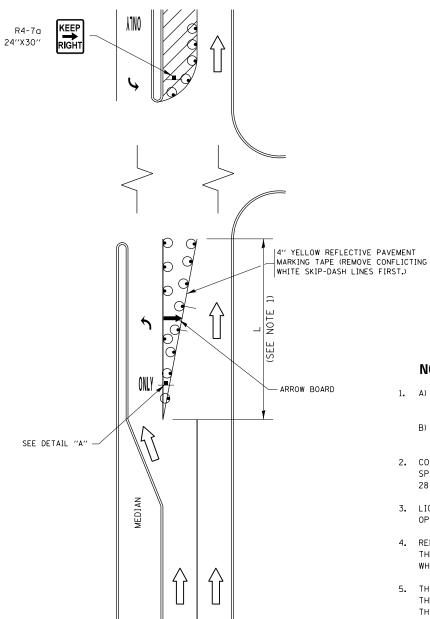
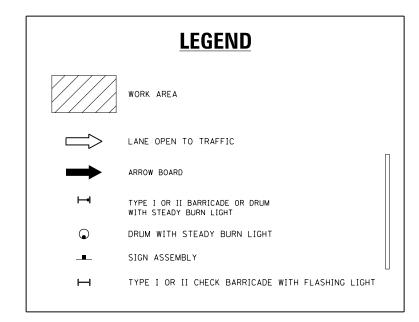


FIGURE 1

TURN BAY ENTRANCE

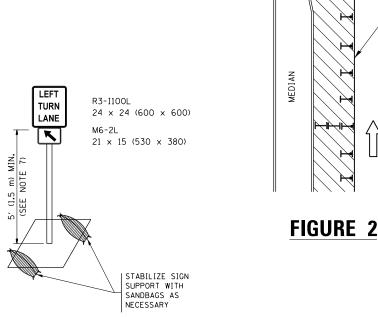
CONFLICTING |

PAVEMENT MARKING REMOVAL (TYP.)



NOTES:

- 1. A) WHEN "L" IS < THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
 - B) WHEN "L" IS > THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
- 2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
- 3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
- 4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
- 5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-I100R 24 x 24 (600 x 600) AND M6-2R 21 \times 15 (530 \times 380) SHALL BE USED.
- 6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
- 7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PREQUIREMENTS.
- 8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.



WITHIN A LANE CLOSURE



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

SEE DETAIL "A"

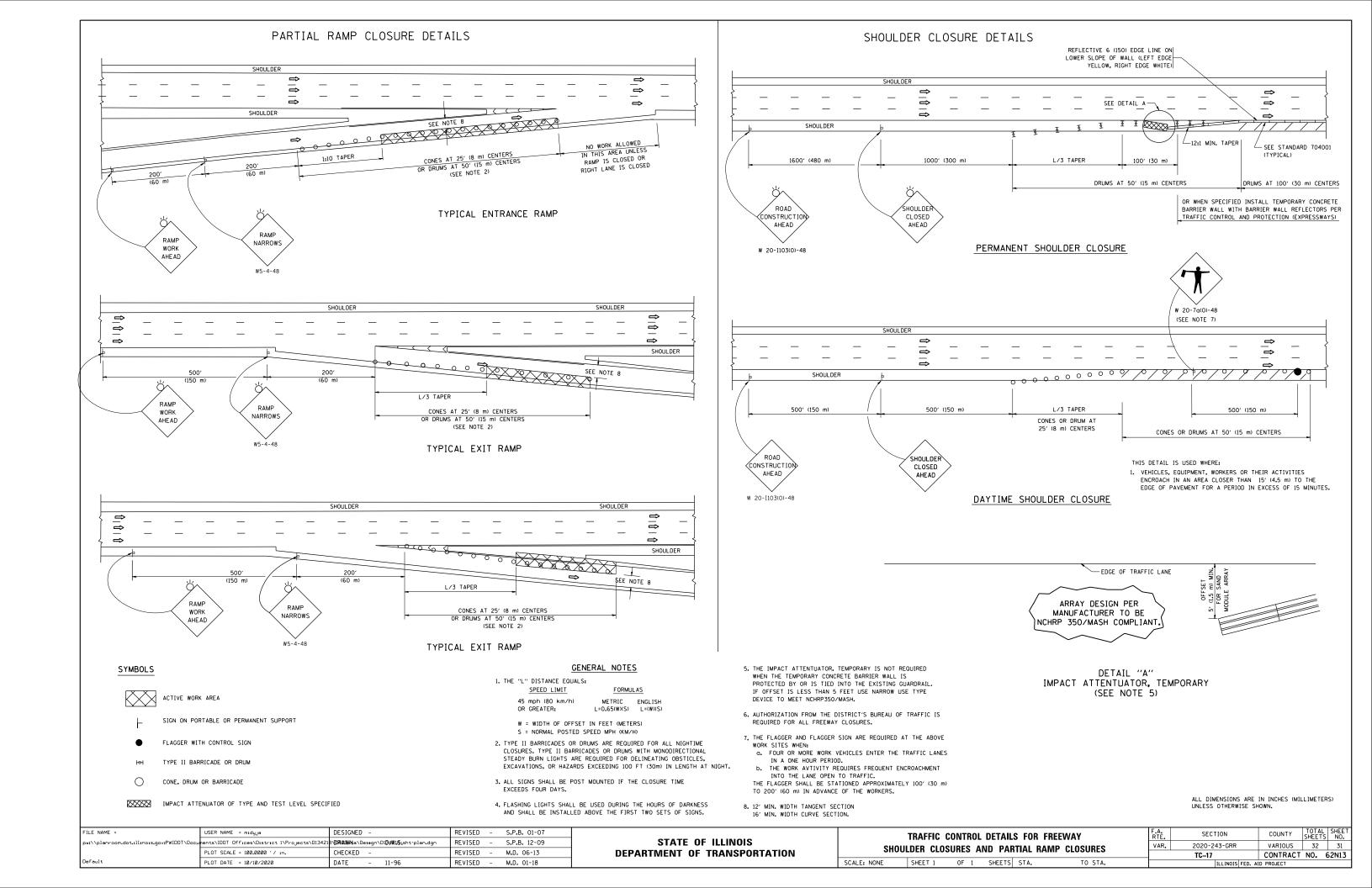
6" WHITE REFLECTIVE PAVEMENT MARKING TAPE

|4" YELLOW REFLECTIVE

PAVEMENT MARKING TAPE (REMOVE CONFLICTING WHITE

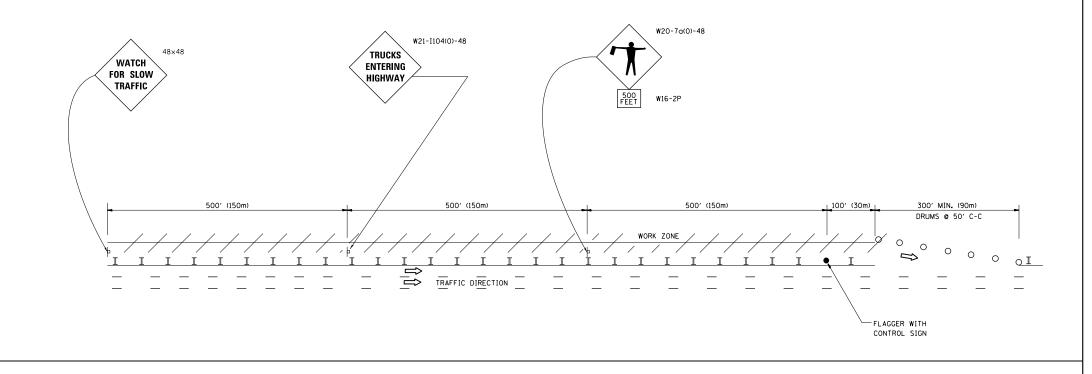
SKIP-DASH LINES FIRST.)

===	USER NAME = midyja	REVISED -	T. RAMMACHER 09-08-9		- R. BORO 09-14-09		TRAF	FIC CONTI	ROL AND	PROTE	CTION AT TU	RN BAYS	RTE.	SECTION	COUNTY	SHEET	TS SHEE	. 1
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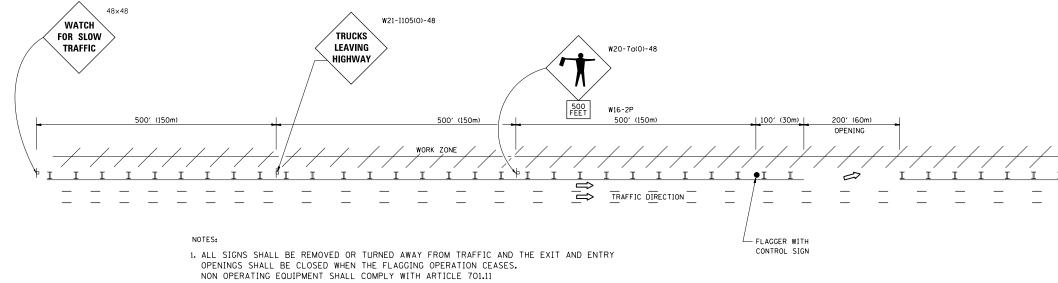


SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



- 2. WORK ZONE OPENINGS SHALL BE A MINIMUM OF ONE HALF MILE APART AND A MINIMUM OF ONE QUARTER MILE FROM ALL ENTRANCE AND EXIT RAMPS.
- 3. EXITING THE WORK ZONE AT ANY PLACE OTHER THAN AT A WORK ZONE EXIT OPENING WILL BE PROHIBITED.
- 4. ALL VEHICLES SHALL ENTER THE WORK ZONE AT ENTRY OPENINGS, USING THEIR TURN SIGNALS TO WARN MOTORISTS
- 5. FLAGGERS SHALL NOT STOP TRAFFIC OR DIRECT TRAFFIC INTO AN ADJACENT LANE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN

FILE NAME =	USER NAME = midyja	DESIGNED -	REVISED -	J.A.F. 02-06		FRFF	WAY/EXPRESSWAY SIGNING FO	OR FLAGGING OPERATIONS	RTÉ.	SECTION	COUNTY	SHEETS NO.	
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	PLOT SCALE = 100.00000 ' / in.	CHECKED -	REVISED -	S.P.B. 12-09	DEPARTMENT OF TRANSPORTATION	AT WORK ZONE OPENINGS ON FREEWAYSÆXPRESSWAYS				TC-18		NO. 62N13	1
	PLOT DATE = 10/10/2020	DATE -	REVISED -	M.D. 06-13		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED. A			1