

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

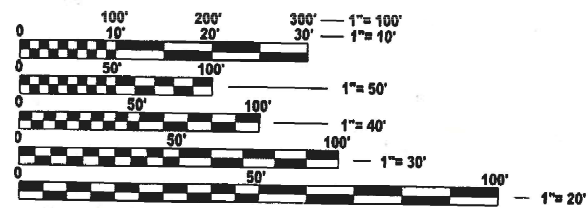
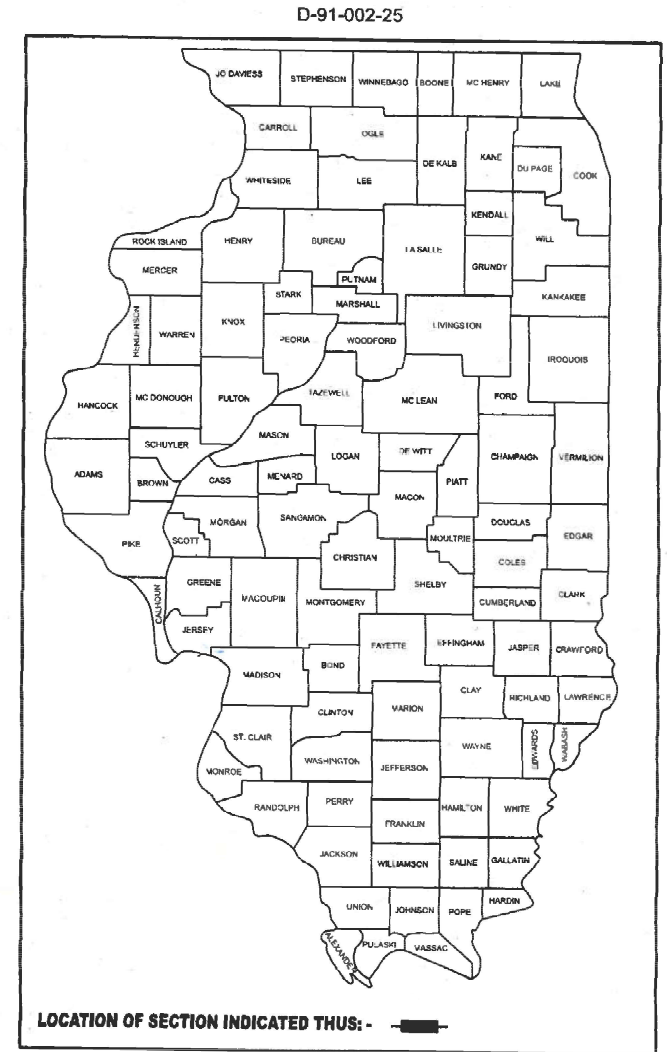
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-996-GRR	VAR	32	1
		ILLINOIS	CONTRACT NO. 62X17	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

**PROPOSED
HIGHWAY PLANS**

**ROUTE: VARIOUS EXPRESSWAYS AND ARTERIALS
HIGHWAYS - DISTRICT ONE
SECTION 2024-996-GRR
GUARDRAIL REPAIRS
VARIOUS COUNTIES**

C-91-002-25



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

<p>J.U.L.I.E. JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811</p>	<p>C.U.A.N. CHICAGO UTILITY ALERT NETWORK 1-312-744-7000</p>
--	---

SEE LOCATION MAPS
SHEETS 005 THRU 013

PROJECT ENGINEER: RODRIGO LEDEZMA (847) 705-4580
PROJECT MANAGER: J. ALAIN MIDY (847) 221-3056

CONTRACT NO. 62X17

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED July 16, 2024

[Signature]
REGIONAL ENGINEER

August 16, 2024

[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

August 16, 2024

[Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

1	COVERSHEET
2	INDEX OF SHEETS, STANDARDS, AND GENERAL NOTES
3 - 4	SUMMARY OF QUANTITIES
5	NORTH DUPAGE COUYNTRY LOCATION MAP
6	NORTH KANE COUNTY LOCATION MAP
7	LAKE COUNTY COUNTY LOCATION MAP
8	MCHENRY COUNTY LOCATION MAP
9	NORTH COOK COUNTY LOCATION MAP
10	SOUTH COOK COUNTY LOCATION MAP
11	SOUTH KANE COUNTY LOCATION MAP
12	SOUTH DU PAGE COUNTY LOCATION MAP
13	WILL COUNTY LOCATION MAP
14	DETAIL OF THRIE-BEAM GUARDRAIL WITH MODIFIED OFFSET BLOCK
15	STEEL PLATE BEAM GUARDRAIL STEEL BLOCK-OUT DETAIL
16	CURB REMOVAL (PARTIAL) AND SHOULDER WIDENING FOR TRAFFIC BARRIER TERMINAL ,TYPE 1 SPECIAL
17	STEEL BRIDGE RAIL DETAIL
18	TYPICAL DETAIL TO ANCHOR STEEL PLATE BEAM GUARD RAIL ON CONCRETE (BM-02)
19	TYPICAL DETAIL FOR GUARDRAIL ANCHOR BLOCK REPAIR (BM-03)
20	TYPICAL DETAILS FOR STEEL PLATE BEAM GUARDRAIL ANCHORAGE REPAIR (BM-04)
21	DETAIL FOR CENTER LONGITUDINAL GUARDRAIL JOINT (BM-05)
22	DETAIL OF STEEL PLATE BEAM GUARDRAIL SPECIAL (BM-06)
23	DETAIL OF GUARDRAIL SUPPORT AND END ANCHORAGE (BM-07)
24 - 26	T6 TERMINAL FOR USE WITH 21" HIGH SPBGR (BM-22)
27	ENTRANCE AND EXIT RAMP CLOSURE DETAILS (TC-08)
28	TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE AND MULTI-LANE WEAVE TC-09)
29	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS (TC-10)
30	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TC-14)
31	TRAFFIC CONTROL DETAIL FOR SHOULDER CLOSURE AND PARTIAL RAMP CLOSURES (TC-17)
32	SIGNING FOR FLAGGING OPERATIONS AT WORK ZONEOPENINGS (TC-18)

LIST OF STATE STANDARDS

630001 - 13	STEEL PLATE BEAM GUARDRAIL
630101 - 11	STRONG POST GUARDRAIL ATTACHED TO CULVERT
630301 - 09	SHOULDER WIDENING FOR TYPE 1 GUARDRAIL TERMINALS
631006 - 08	TRAFFIC BARRIER TERMINAL TYPE 1B
631011 - 10	TRAFFIC BARRIER TERMINAL TYPE 2
631026 - 06	TRAFFIC BARRIER TERMINAL TYPE 5
631031 - 18	TRAFFIC BARRIER TERMINAL TYPE 6
631046 - 04	TRAFFIC BARRIER TERMINAL TYPE 10
701006 - 05	OFF-RD OPERATIONS 2L 2W 15' TO 24" FROM PAVEMENT EDGE
701011 - 04	OFF-RD MOVING OPERATIONS 2L 2W DAY ONLY
701106 - 02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701201 - 05	LANE CLOSURE, 2L 2W, DAY ONLY 45MPH OR MORE
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 45MPH OR MORE
701400 - 12	APPROACH TO LANE CLOSURE FREEWAY EXPRESSWAY
701401 - 13	LANE CLOSURE FREEWAY EXPRESSWAY
701411 - 09	LANE CLOSURE MULTILANE ENTRANCE OR EXIT RAMP 45MPH OR MORE
* 701421 - 08	LANE CLOSURE MULTILANE DAY OPERATIONS ONLY 45-55MPH
701426 - 09	LANE CLOSURE MULTILANE INTERMITTENT OR MOVING OPERATIONS 45MPH OR MORE
701427 - 05	LANE CLOSURE MULTILANE INTERMITTENT OR MOVING OPERATIONS 40MPH OR LESS
701428 - 01	TRAFFIC CONTROL SETUP 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 2W WITH NONTRAVERSABLE MEDIAN
701606 - 10	URBAN SINGLE LANE CLOSURE MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701 - 10	URBAN LANE CLOSURE MULTILANE INTERSECTION
701801 - 06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901 - 09	TRAFFIC CONTROL DEVICES
720011 - 01	METAL POSTS FOR SIGNS MARKERS AND DELINEATORS
782006 - 01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
BLR23 - 4	TRAFFIC BARRIER TERMINAL TYPE 1

GENERAL NOTES

1. 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.
2. 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.
3. REMOVAL OF DAMAGED MATERIALS WILL INCLUDE DISMANTLING, LOADING, HAULING AND DISPOSAL. THE WORK SITE WILL BE LEFT IN A SAFE AND ORDERLY CONDITION.
4. NO MATERIAL SHOULD BE LEFT ON OR NEAR THE ROADWAY DURING NON-WORKING HOURS.
5. ANY NECESSARY TRAFFIC CONTROL WILL BE PROVIDED BY THE CONTRACTOR; APPROPRIATE STANDARDS ARE HEREWITH ATTACHED.
6. THE LIMITS OF THE DAMAGED GUARDRAIL WILL BE MARKED WITH PAINT. THE REPLACEMENT PARTS AND THE QUANTITIES INDICATED ARE WITHIN THESE LIMITS AS MARKED.
7. 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.
8. GUARDRAIL MARKERS SHALL NOT BE ATTACHED TO TERMINAL SECTIONS.
9. 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.
10. REMOVAL OF EXISTING TERMINAL SECTIONS INCLUDED IN COST OF NEW TERMINAL SECTIONS
11. 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.
12. 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

MODEL: GenNotesSh01 (Sheet)
FILE NAME: c:\pwworking\ibid\design\m1015251\100225-shr-gennote.dgn

USER NAME = rodrigo.ledezma	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666833' / in.	CHECKED -	REVISED -
PLOT DATE = 8/5/2024	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES			
SCALE:	SHEET	OF 1 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-996-GRR	VARIOUS	32	2
				CONTRACT NO. 62X17
				ILLINOIS FED. AID PROJECT

SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT		100% STATE 0021	100% STATE MCHD 0021				
63100045	TRAFFIC BARRIER TERMINAL , TYPE 2	EACH	11	9	2				
63100070	TRAFFIC BARRIER TERMINAL , TYPE 5	EACH	3	2	1				
63100085	TRAFFIC BARRIER TERMINAL , TYPE 6	EACH	6	5	1				
63100167	TRAFFIC BARRIER TERMINAL , TYPE 1 (SPECIAL) TANGENT	EACH	62	50	12				
63100169	TRAFFIC BARRIER TERMINAL , TYPE 1 (SPECIAL) FLARED	EACH	10	8	2				
72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	506	405	101				
78200005	GUARDRAIL REFLECTORS , TYPE A	EACH	23	18	5				
X2300019	REATTACHING AND REALIGNING TERMINALS AND RAIL ELEMENT PLATES	EACH	32	26	6				
X4402302	CURB REMOVAL (PARTIAL)	FOOT	149	119	30				
X6300210	GUARDRAIL BLOCKS	EACH	1631	1305	326				

SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT		100% STATE 0021	100% STATE MCHD 0021				
X6300215	RAIL ELEMENT PLATES	EACH	2078	1662	416				
X6300217	RAIL ELEMENT PLATES (RADIUS)	EACH	2078	1662	416				
X6300222	CONNECTING END SECTION	EACH	111	89	22				
X6300224	RETURN END SECTION	EACH	3	2	1				
X6300225	SINGLE END SECTION	EACH	17	14	3				
X6300230	STEEL POSTS	EACH	1262	1010	252				
X6300610	THRIE BEAM GUARDRAIL ELEMENT PLATES	EACH	7	6	1				
X6300620	THRIE-BEAM MODIFIED BLOCKS	EACH	7	6	1				
X6300630	THRIE-BEAM POSTS	EACH	7	6	1				
X6300640	THRIE BEAM RADIUS ELEMENT PLATES	EACH	4	3	1				
X6310163	TRAFFIC BARRIER TERMINAL , TYPE 1, NOSE	EACH	10	8	2				
X6310177	TRAFFIC BARRIER TERMINAL , TYPE 3 (SPECIAL)	EACH	4	3	1				
X6310203	TRAFFIC BARRIER TERMINAL , TYPE 3 SPECIAL , NOSE	EACH	3	2	1				
X6330800	GUARDRAIL POST VERTICAL ADJUSTMENT	EACH	23	18	5				

MODEL: SQO-1 [Sheet]
 FILE NAME: c:\pwworking\ledezma\1016251\10100225-sh-SQO.dgn
 2024/07/10 10:02:25 AM

USER NAME = rodrigo.ledezma	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 7/10/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES			
SCALE:	SHEET	OF 2 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-996-GRR	VARIOUS	32	1
			CONTRACT NO. 62X17	
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT		100% STATE 0021	100% STATE MCHD 0021				
X6331105	STEEL POSTS, MODIFIED	EACH	29	23	6				
X6331110	STEEL POSTS (SPECIAL)	EACH	18	14	4				
Z0007124	STEEL RAILING (SPECIAL)	FOOT	55	44	11				
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				
X6310301	REPAIR TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL	EACH	322	258	64				
X6310320	REPAIR TRAFFIC BARRIER TERMINAL TYPE 3 SPECIAL	EACH	9	7	2				
X6310306	REPAIR TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL - POST	EACH	405	324	81				
X6310312	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	9	7	2				
X6310316	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	35	28	7				

SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT		100% STATE 0021	100% STATE MCHD 0021				
X6310326	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	4	3	1				
X6310330	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	5	4	1				
X6310310	REPAIR TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL - RAIL ELEMENT PLATE	EACH	117	94	23				
X6640632	WOOD RAIL	FOOT	360	288	72				

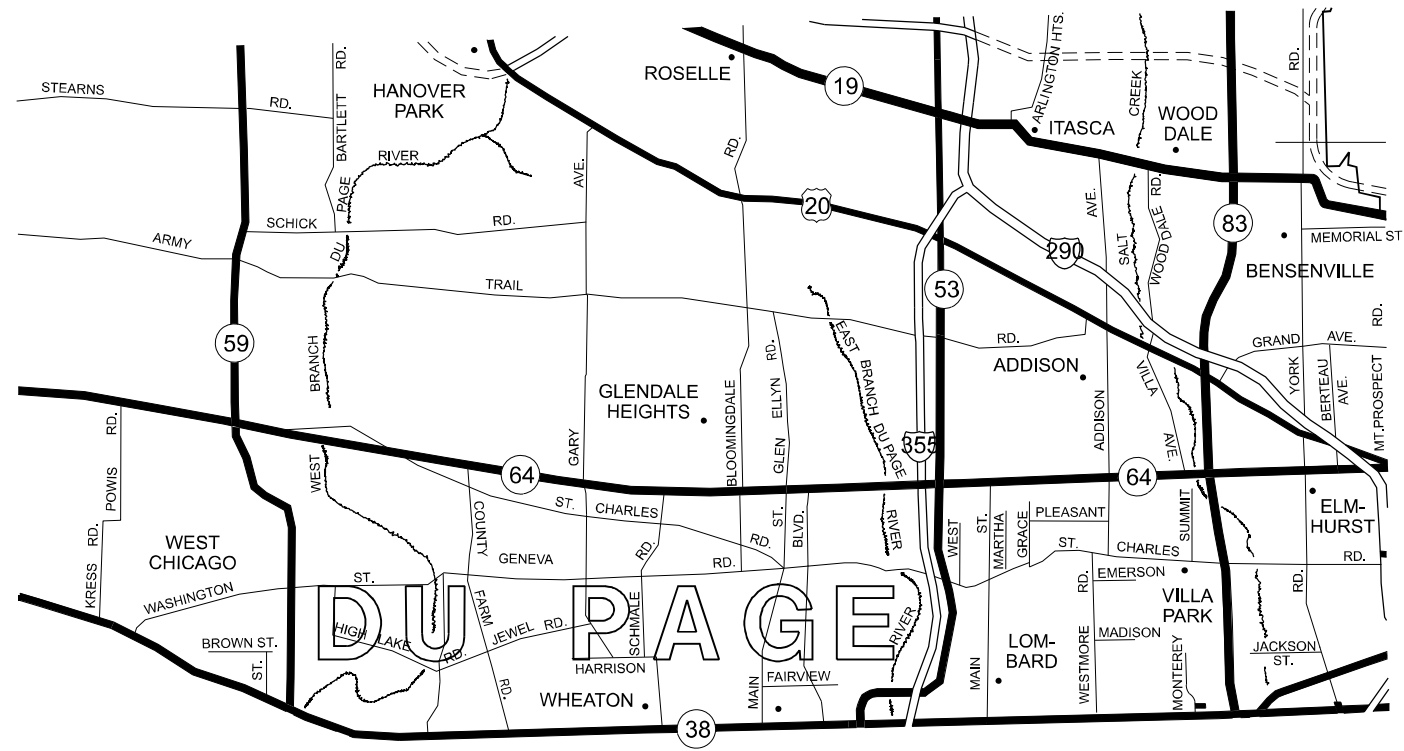
MODEL: SQ-Q2 [Sheet]
 FILE NAME: c:\pwworking\ledexma\1016251\1000225-sh-SQ.dgn
 2024/07/15 10:02:25 AM

USER NAME = rodrigo.ledexma	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 7/15/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES			
SCALE:	SHEET	OF 2 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-996-GRR	VARIOUS	32	2
			CONTRACT NO. 62X17	
ILLINOIS FED. AID PROJECT				



DISTRICT NO. 1

- STATE HIGHWAYS & EXPRESSWAYS WITHIN STATE JURISDICTION. (EXCEPT TOLLWAYS) AND CITY MAINTENANCE AGREEMENTS UNDER STATE JURISDICTION
- FUTURE HIGHWAYS
- VARIOUS AGENCIES HIGHWAYS

MODEL: DuPage County (Sheet)
 FILE NAME: c:\p\work\pavist\ledezma\m101525\100225-shp-plan.dgn

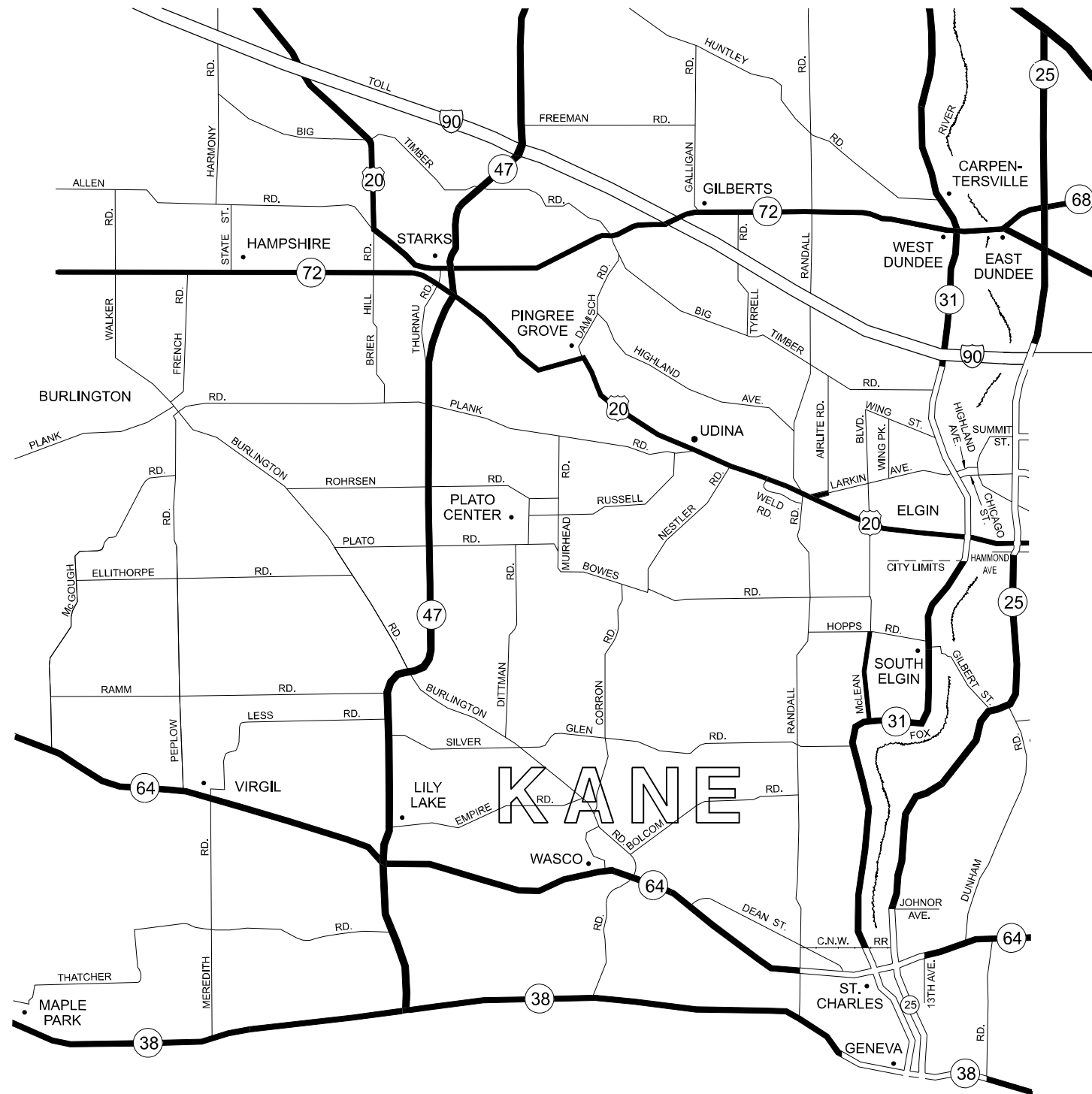
USER NAME = rodrigo.ledezma	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 7/31/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL REPAIR LOCATION MAP
NORTH DUPAGE INCLUDING IL 38

SCALE: SHEET OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-996-GRR	VARIOUS	32	5
CONTRACT NO. 62X17			ILLINOIS FED. AID PROJECT	



DISTRICT NO. 1

- STATE HIGHWAYS & EXPRESSWAYS
WITHIN STATE JURISDICTION.
(EXCEPT TOLLWAYS) AND
CITY MAINTENANCE AGREEMENTS
UNDER STATE JURISDICTION
- FUTURE HIGHWAYS
- VARIOUS AGENCIES HIGHWAYS

MODEL: Kane County (Sheet)
 FILE NAME: c:\p\work\kane\ledezma\m101525\100225-sh-h-plan.dgn

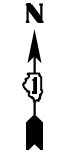
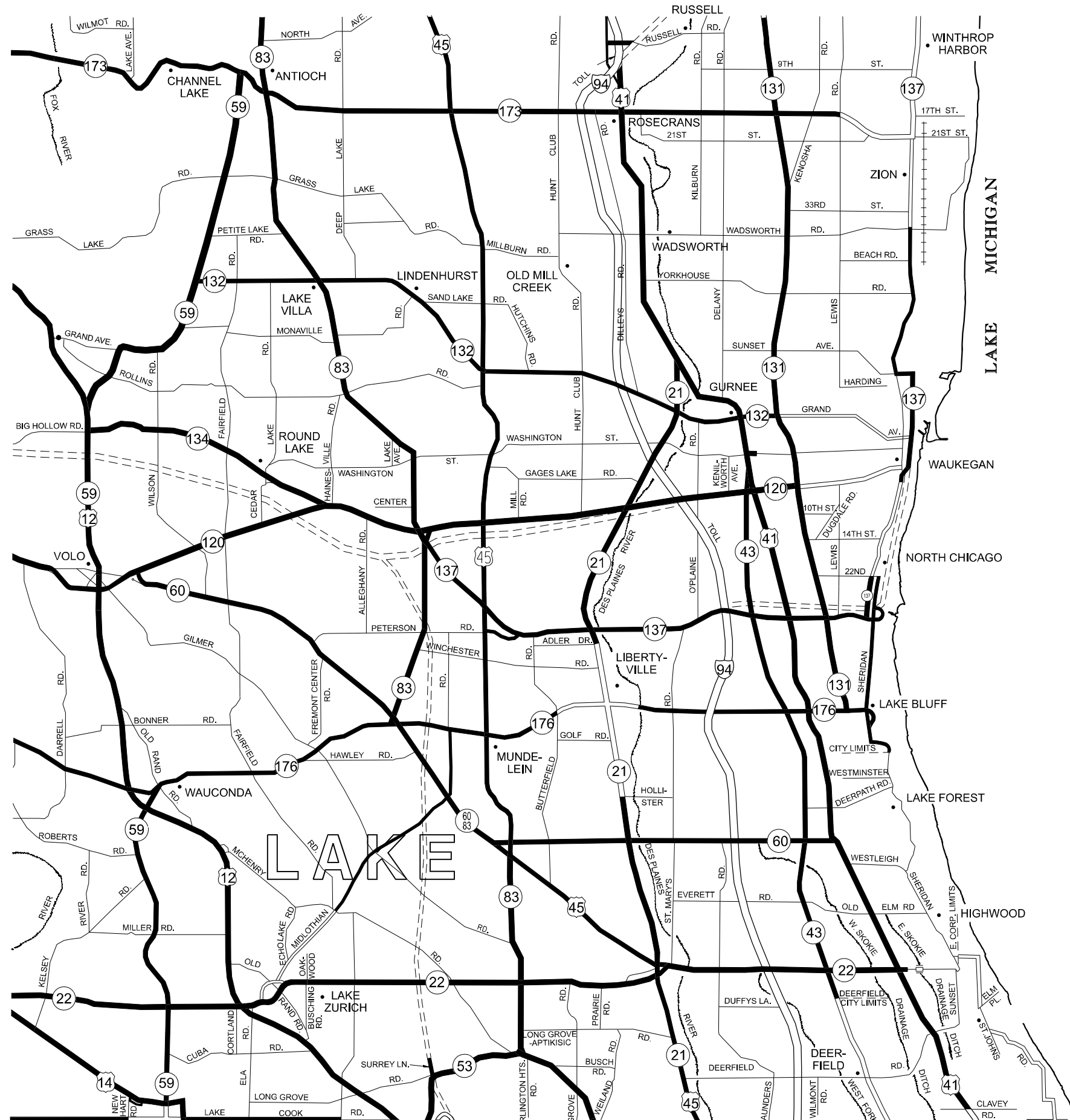
USER NAME = rodrigo.ledezma	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 7/31/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL REPAIR LOCATION MAP
NORTH KANE INCLUDING IL 38

SCALE: SHEET OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-996-GRR	VARIOUS	32	6
CONTRACT NO. 62X17				
ILLINOIS FED. AID PROJECT				



DISTRICT NO. 1

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

--- FUTURE HIGHWAYS

— VARIOUS AGENCIES HIGHWAYS

MODEL: Lake County [Sheet]
FILE NAME: c:\pwworking\ldezmam\ldezmam\1015251\100225-shr-pla-b.dgn

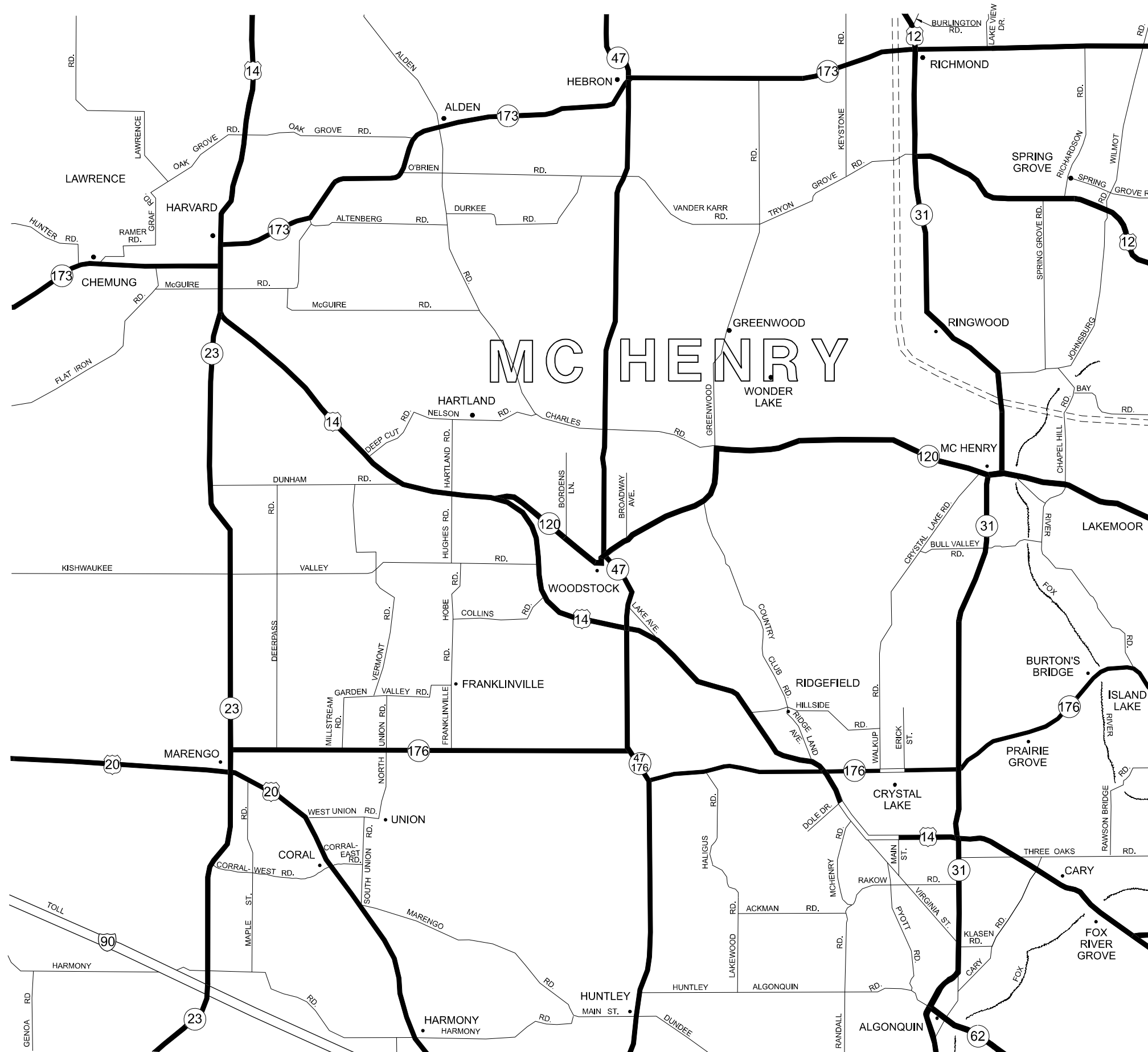
USER NAME = rodrigo.ledezma	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 7/15/2024	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GUARDRAIL REPAIR LOCATION MAP
LAKE COUNTY**

SCALE: SHEET OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-996-GRR	VARIOUS	32	3
CONTRACT NO. 62X17				
ILLINOIS		FED. AID PROJECT		



DISTRICT NO. 1

- STATE HIGHWAYS & EXPRESSWAYS WITHIN STATE JURISDICTION. (EXCEPT TOLLWAYS) AND CITY MAINTENANCE AGREEMENTS UNDER STATE JURISDICTION
- FUTURE HIGHWAYS
- VARIOUS AGENCIES HIGHWAYS

MODEL: McHenry County (Sheet)
 FILE NAME: c:\p\work\gis\mch\desmarm\1015251\100225-shr-plan.dgn

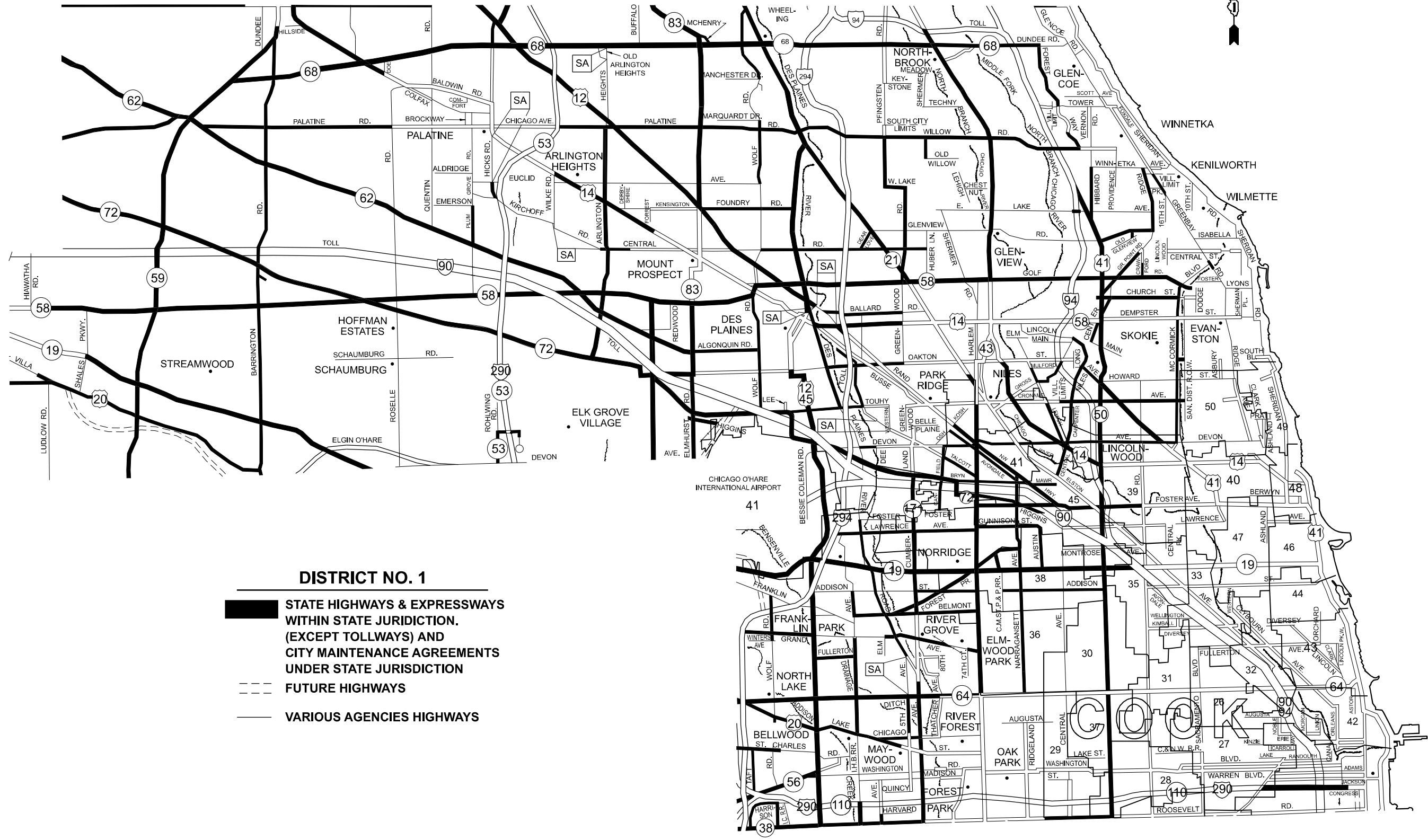
USER NAME = rodrigo.ledezma	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 7/15/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL REPAIR LOCATION MAP
MCHENRY COUNTY

SCALE: SHEET OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-996-GRR	VARIOUS	32	4
CONTRACT NO. 62X17			ILLINOIS FED. AID PROJECT	



DISTRICT NO. 1

- STATE HIGHWAYS & EXPRESSWAYS WITHIN STATE JURISDICTION. (EXCEPT TOLLWAYS) AND CITY MAINTENANCE AGREEMENTS UNDER STATE JURISDICTION
- FUTURE HIGHWAYS
- VARIOUS AGENCIES HIGHWAYS

MODEL: North Cook County (Sheet)
 FILE NAME: c:\p\work\civil\ledezma\m101525\1D100225-sh-h-plan.dgn

USER NAME =	rodrigo.ledezma	DESIGNED -		REVISED -	
		DRAWN -		REVISED -	
		CHECKED -		REVISED -	
PLOT DATE =	7/31/2024	DATE -		REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GUARDRAIL REPAIR LOCATION MAP
NORTH COOK INCLUDING IL 38**

SCALE: SHEET OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-996-GRR	VARIOUS	32	9
CONTRACT NO. 62X17			ILLINOIS FED. AID PROJECT	



- DISTRICT NO. 1**
- STATE HIGHWAYS & EXPRESSWAYS WITHIN STATE JURISDICTION. (EXCEPT TOLLWAYS) AND CITY MAINTENANCE AGREEMENTS UNDER STATE JURISDICTION**
 - FUTURE HIGHWAYS
 - VARIOUS AGENCIES HIGHWAYS

MODEL: South Cook County (Sheet)
 FILE NAME: c:\p\work\proj\dist\plan\m1015251\100225-sh-h-plan.dgn

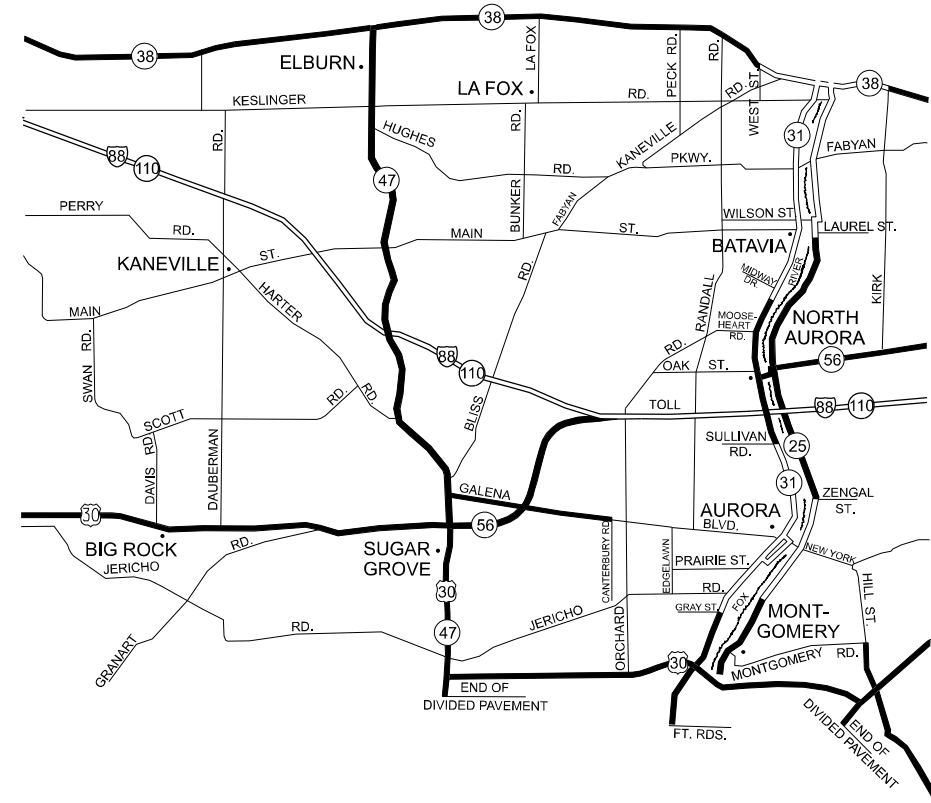
USER NAME = rodrigo.ledezma	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 7/31/2024	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**GUARDRAIL REPAIR LOCATION MAP
 SOUTH COOK INCLUDING IL 38**

SCALE: SHEET OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-996-GRR	VARIOUS	32	10
CONTRACT NO. 62X17				
ILLINOIS FED. AID PROJECT				



DISTRICT NO. 1

- STATE HIGHWAYS & EXPRESSWAYS WITHIN STATE JURISDICTION. (EXCEPT TOLLWAYS) AND CITY MAINTENANCE AGREEMENTS UNDER STATE JURISDICTION
- FUTURE HIGHWAYS
- VARIOUS AGENCIES HIGHWAYS

MODEL: South of Route 38 [Sheet]
 FILE NAME: c:\p\work\project\ledezma\m101525\1D100225-shr-plan.dgn

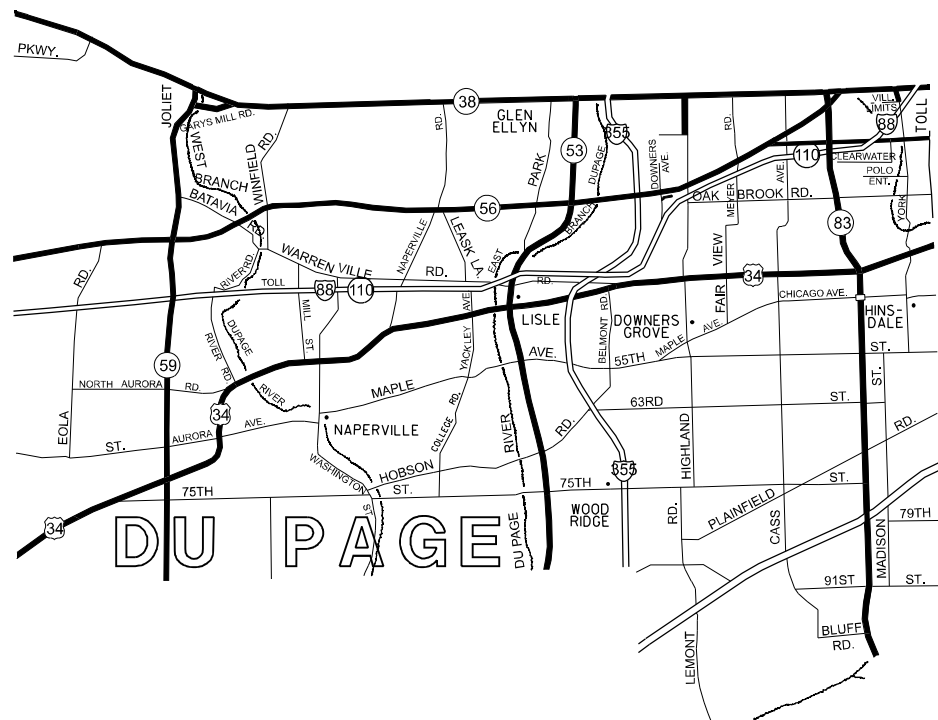
USER NAME = rodrigo.ledezma	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 7/31/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL REPAIR LOCATION MAP
SOUTH KANE INCLUDING IL 38

SCALE: SHEET OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-996-GRR	VARIOUS	32	11
CONTRACT NO. 62X17			ILLINOIS FED. AID PROJECT	



DISTRICT NO. 1

- STATE HIGHWAYS & EXPRESSWAYS WITHIN STATE JURISDICTION. (EXCEPT TOLLWAYS) AND CITY MAINTENANCE AGREEMENTS UNDER STATE JURISDICTION
- FUTURE HIGHWAYS
- VARIOUS AGENCIES HIGHWAYS

MODEL: South of Route 39-2 (Sheet)
 FILE NAME: c:\p\work\wv\du\ledezma\m1015251\100225-srh-plan.dgn

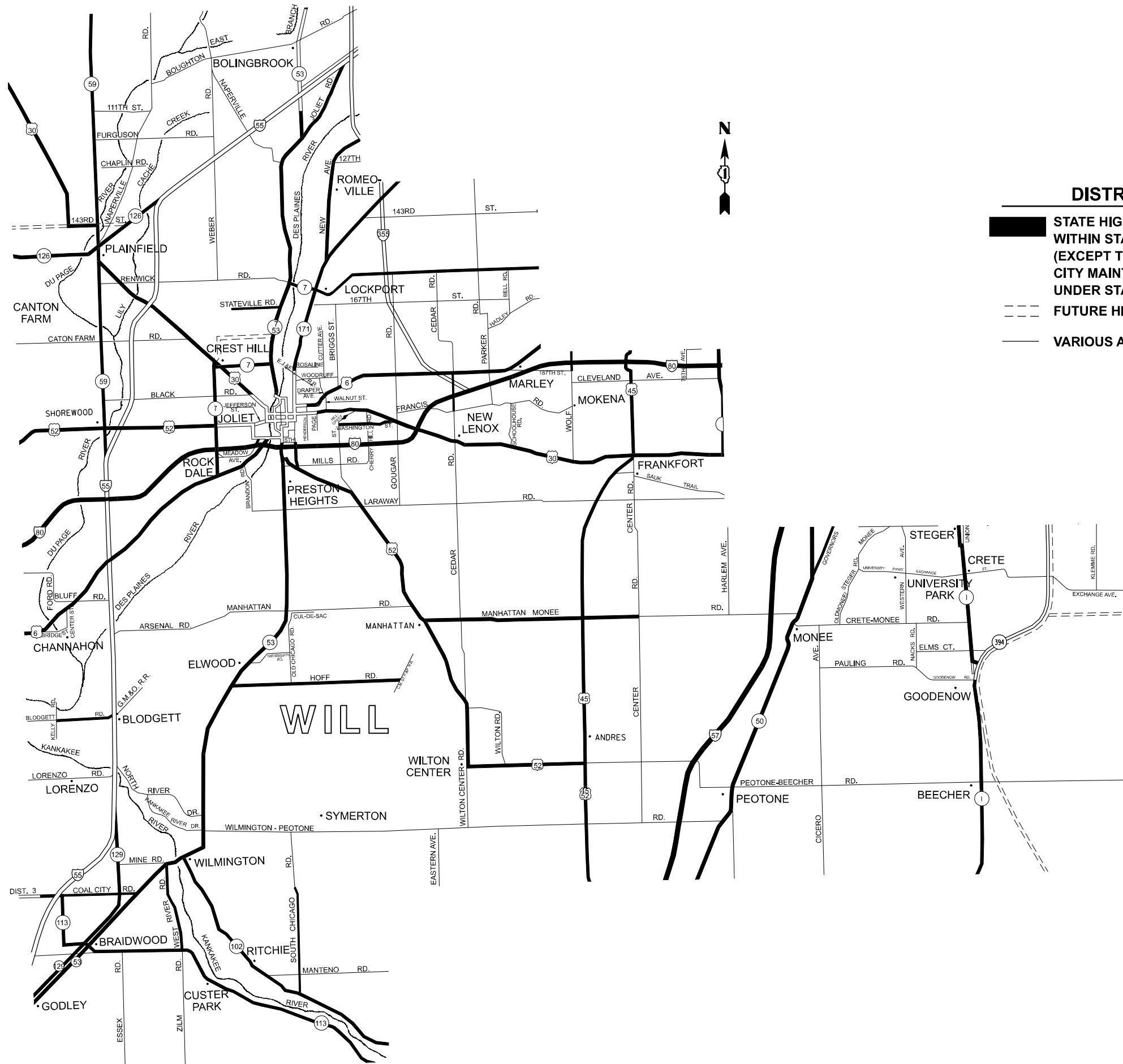
USER NAME = rodrigo.ledezma	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 7/31/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL REPAIR LOCATION MAP
SOUTH DUPAGE INCLUDING IL 38

SCALE: SHEET OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-996-GRR	VARIOUS	32	12
CONTRACT NO. 62X17			ILLINOIS FED. AID PROJECT	



DISTRICT NO. 1

- STATE HIGHWAYS & EXPRESSWAYS WITHIN STATE JURISDICTION, (EXCEPT TOLLWAYS) AND CITY MAINTENANCE AGREEMENTS UNDER STATE JURISDICTION
- FUTURE HIGHWAYS
- VARIOUS AGENCIES HIGHWAYS

MODEL: Will County (Sheet)
 FILE NAME: c:\pwworking\rodrigoledezma\1015251\100225-sh-h-plan.dgn

USER NAME = rodrigo.ledezma	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 7/15/2024	DATE -	REVISED -

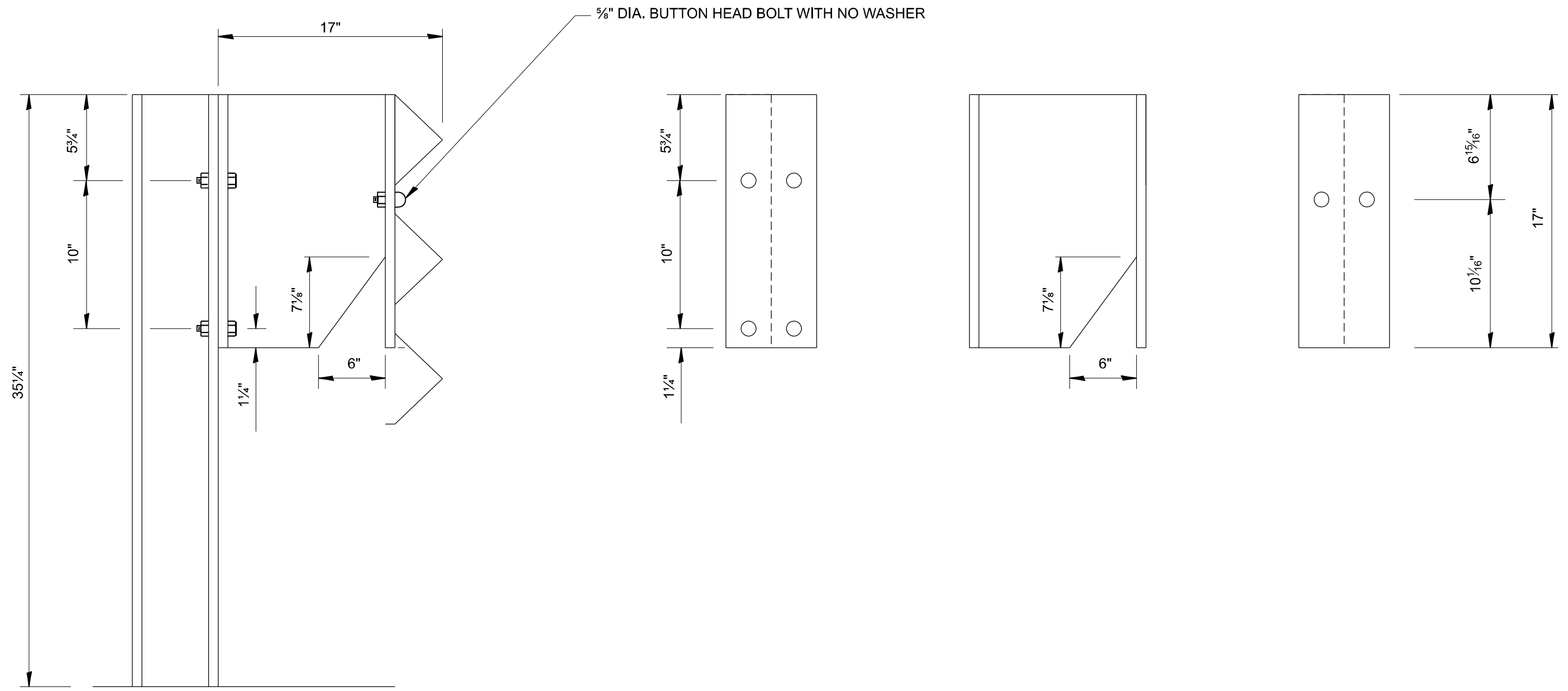
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL REPAIR LOCATION MAP
WILL COUNTY

SCALE: SHEET OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-996-GRR	VARIOUS	32	9
CONTRACT NO. 62X17				
ILLINOIS FED. AID PROJECT				

MODEL: DetailSH01 (Sheet)
 FILE NAME: c:\p\work\revision\ledezma\m1015251\100225-sh-detaills.dgn



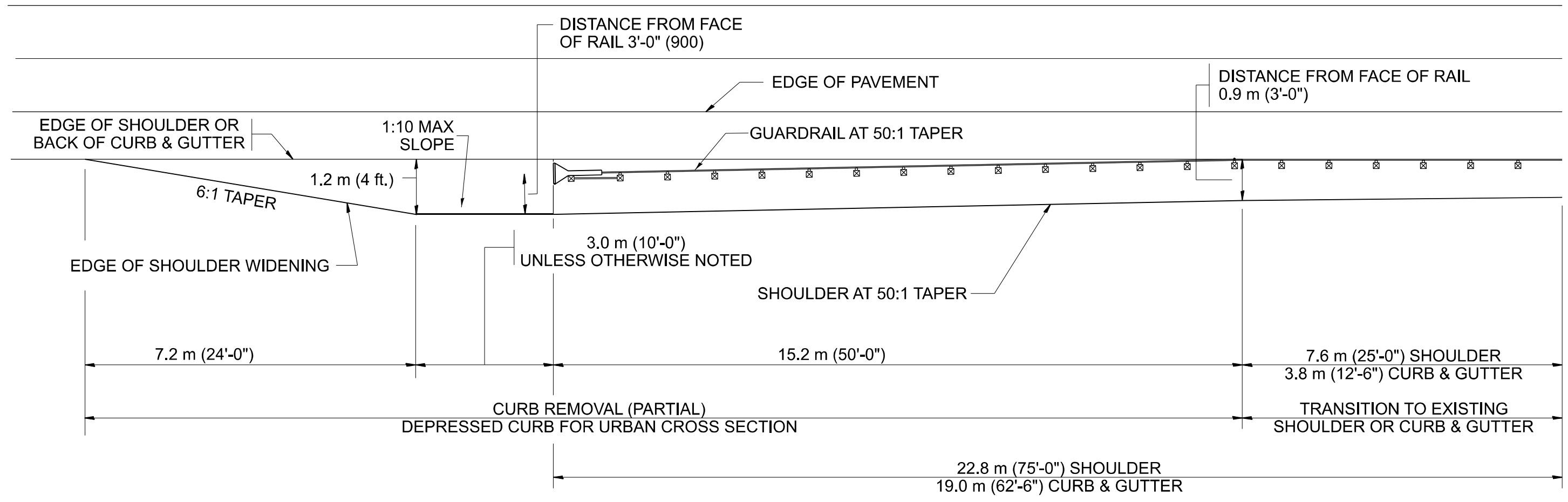
USER NAME = rodrigo.ledezma	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633' / in.	CHECKED -	REVISED -
PLOT DATE = 7/10/2024	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DETAIL THREE BEAM GUARDRAIL
 WITH MODIFIED OFFSET BLOCK**

SCALE: SHEET OF 4 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-996-GRR	VARIOUS	32	1
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62X17	



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

MODEL: DetailSH02 (Sheet)
FILE NAME: c:\p\work\project\ledezma\m1015251\100225-shh-details.dgn

USER NAME = rodrigo.ledezma	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666833' / in.	CHECKED -	REVISED -
PLOT DATE = 7/15/2024	DATE -	REVISED -

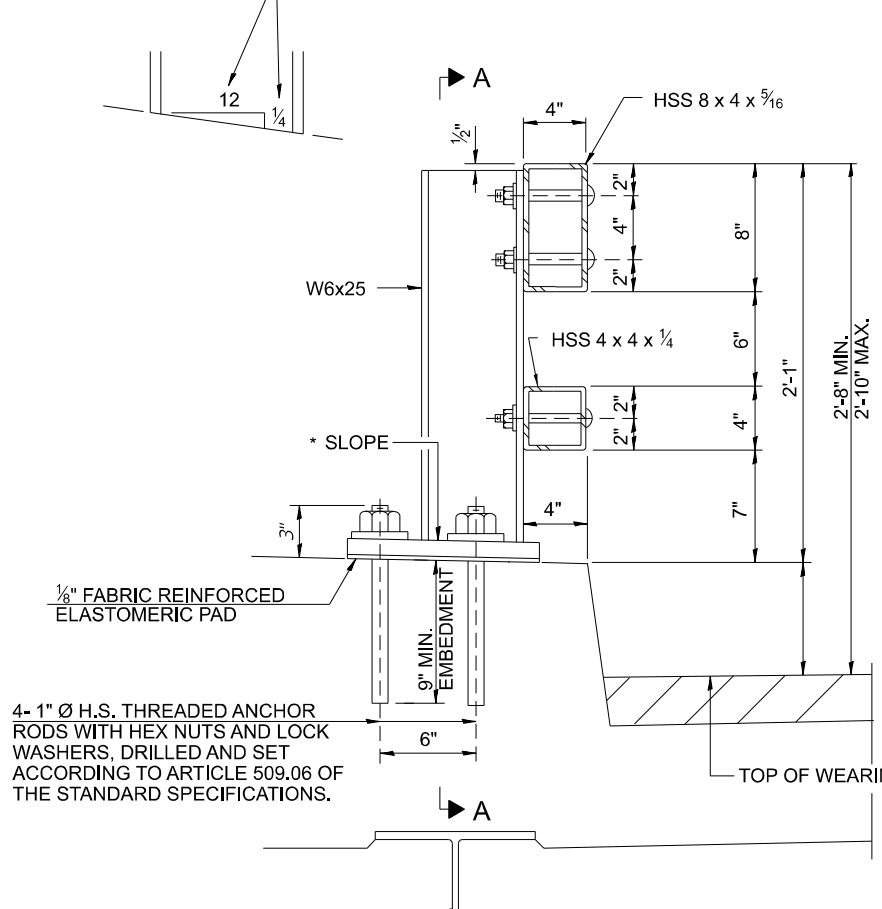
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STEEL PLATE BEAM GUARDRAIL
STEEL BLOCK-OUT DETAIL**

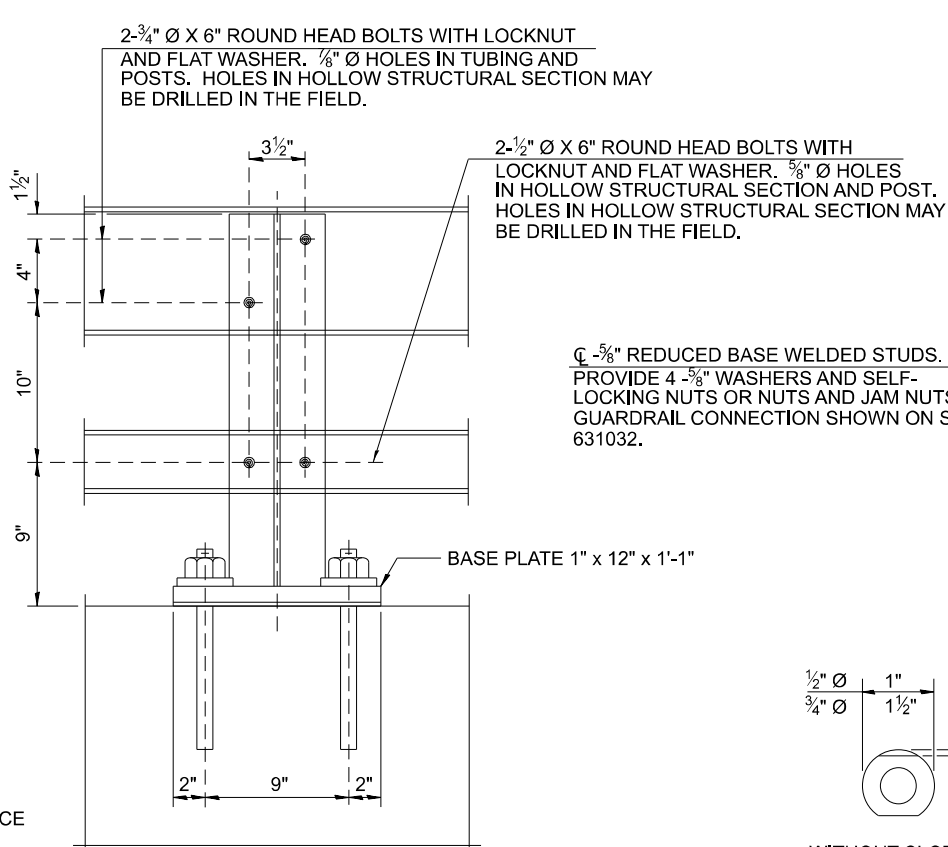
SCALE: SHEET OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-996-GRR	VARIOUS	32	2
CONTRACT NO. 62X17			ILLINOIS FED. AID PROJECT	

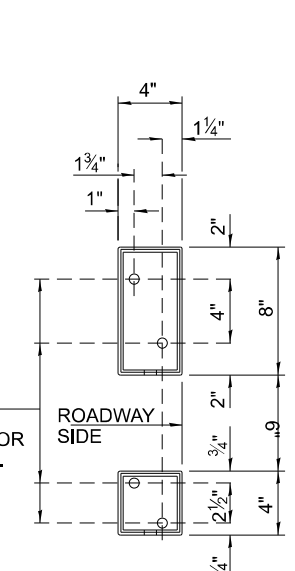
* CUT BOTTOM END OF POST TO CURB SLOPE.



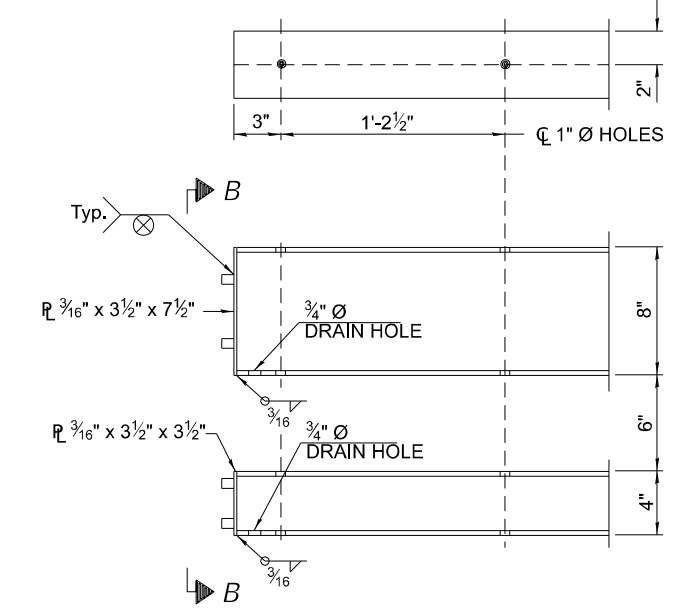
SECTION AT RAIL POST



SECTION A-A



VIEW B-B



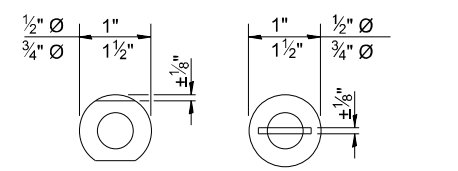
END OF RAIL DETAILS

4- 1" Ø H.S. THREADED ANCHOR RODS WITH HEX NUTS AND LOCK WASHERS. DRILLED AND SET ACCORDING TO ARTICLE 509.06 OF THE STANDARD SPECIFICATIONS.

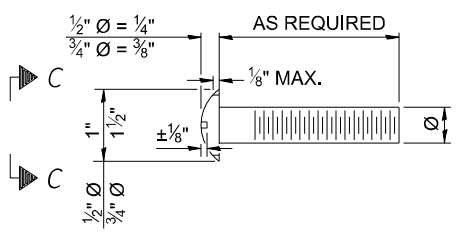
2- 1/2" Ø X 6" ROUND HEAD BOLTS WITH LOCKNUT AND FLAT WASHER. 5/8" Ø HOLES IN HOLLOW STRUCTURAL SECTION AND POST. HOLES IN HOLLOW STRUCTURAL SECTION MAY BE DRILLED IN THE FIELD.

2- 3/4" Ø X 6" ROUND HEAD BOLTS WITH LOCKNUT AND FLAT WASHER. 1/2" Ø HOLES IN TUBING AND POSTS. HOLES IN HOLLOW STRUCTURAL SECTION MAY BE DRILLED IN THE FIELD.

5/8" Ø X 1 3/4" CAP SCREW WITH FLAT WASHER & 3/4" Ø XS PIPE SPACER, 1/2" LONG

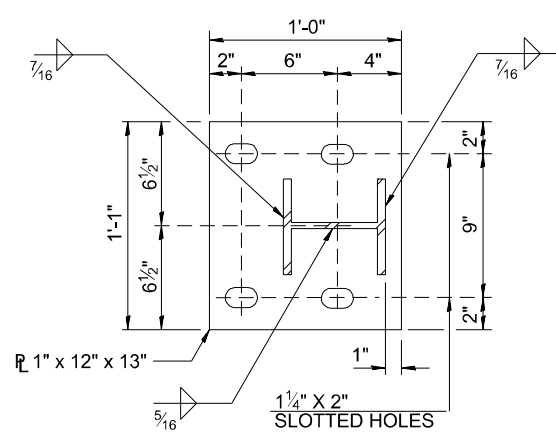


VIEW C-C

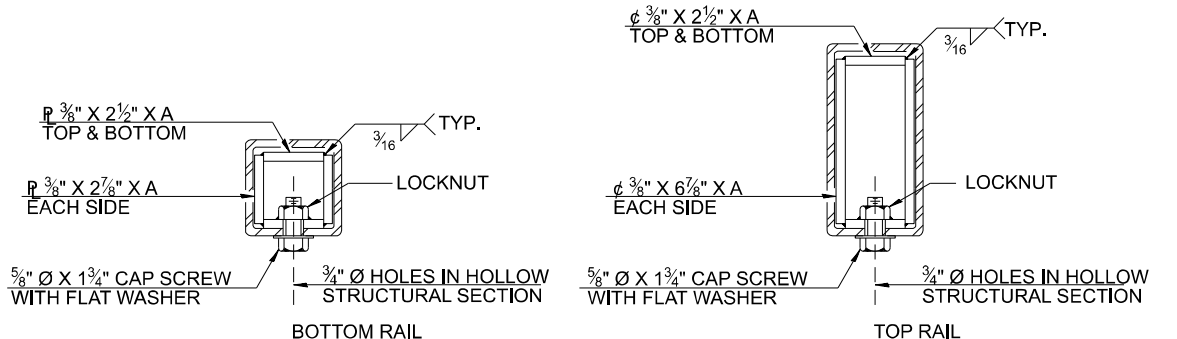


DETAIL OF 1/2" Ø & 3/4" Ø ROUND HEAD BOLTS

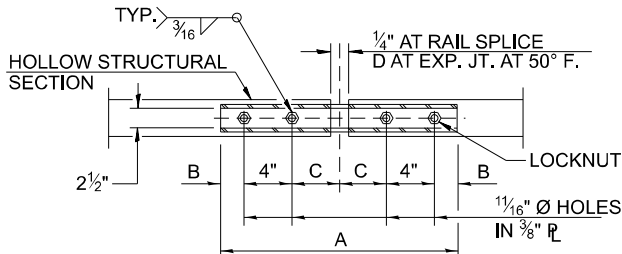
NOTES:
 POSTS SHALL NOT BE LOCATED CLOSER THAN 1'-3" TO AN EXISTING BRIDGE EXPANSION JOINT OR END OF BRIDGE.
 STEEL BRIDGE RAIL EXPANSION JOINT SHALL BE PROVIDED BETWEEN ANY TWO (2) POSTS WHICH SPAN A BRIDGE EXPANSION JOINT. BOLTS LOCATED AT EXPANSION JOINT SHALL BE PROVIDED WITH LOCKNUTS AND SHALL BE TIGHTENED ONLY TO A POINT THAT WILL ALLOW RAILING MOVEMENT.
 PROVIDE ONE 1/8" AND TWO 1/16" STEEL SHIMS FOR 25% OF THE POSTS. SHIMS SHALL BE SIMILAR TO BASE PLATES IN SIZE AND HOLES.
 ALL STEEL RAIL ELEMENTS SHALL BE GALVANIZED ACCORDING TO ARTICLE 509.05 OF THE STANDARD SPECIFICATIONS.



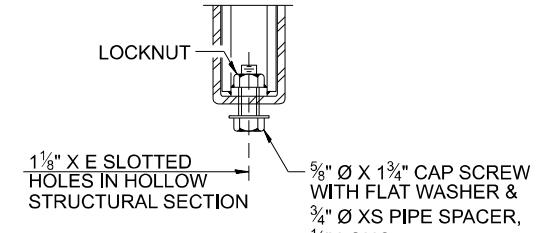
BASE PLATE DETAIL



SECTIONS AT RAIL SPLICE



PLAN-BOTT. SPLICE PLATE TYPICAL



RAIL SPLICE CONNECTION AT EXPANSION JT.

SPLICE DIMENSIONS

T	D	A	B	C	E
≤ 4"	2 1/2"	1'-8"	2"	4"	2 1/2"
> 4" ≤ 6 1/2"	3 3/4"	2'-0"	2 1/2"	5 1/2"	3 1/2"
> 6 1/2" ≤ 9"	5"	2'-4"	3 1/2"	6 1/2"	9"
> 9" ≤ 13"	7"	2'-10"	4 1/2"	8 1/2"	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	

MODEL: Detail(S)03 (Sheet)
 FILE NAME: c:\pwworking\rodrigo.ledezma\1015251\10100225-sh-h-details.dgn

R-31

2-17-2017

(6'-3" Maximum Post Spacing)

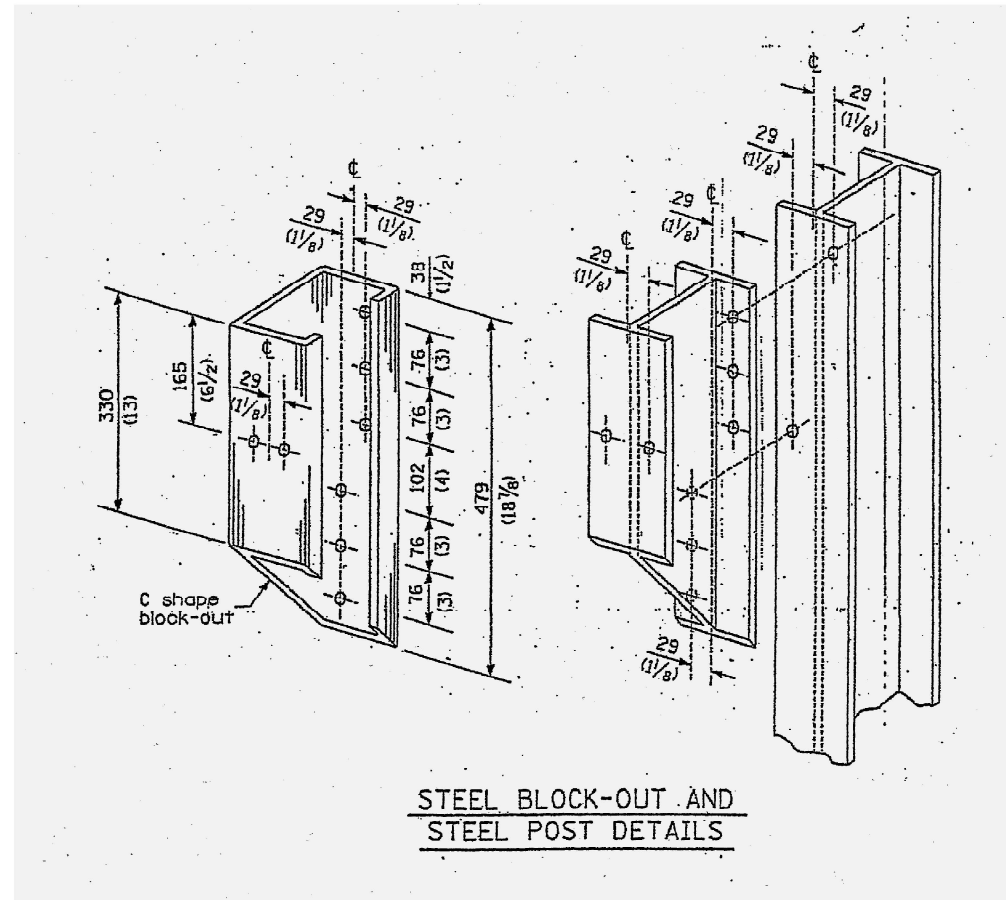
USER NAME = rodrigo.ledezma	DESIGNED -	REVISED -
PLOT SCALE = 0.16666633' / in.	DRAWN -	REVISED -
PLOT DATE = 7/15/2024	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CURB REMOVAL (PARTIAL) FOR
 TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL

SCALE: SHEET OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-996-GRR	VARIOUS	32	3
CONTRACT NO. 62X17				
ILLINOIS FED. AID PROJECT				



MODEL: DetailSH04 (Sheet)
 FILE NAME: c:\p\work\wiscoll\ledezma\mid1015251\100225-sh-detaills.dgn

USER NAME = rodrigo.ledezma	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666833' / in.	CHECKED -	REVISED -
PLOT DATE = 7/15/2024	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

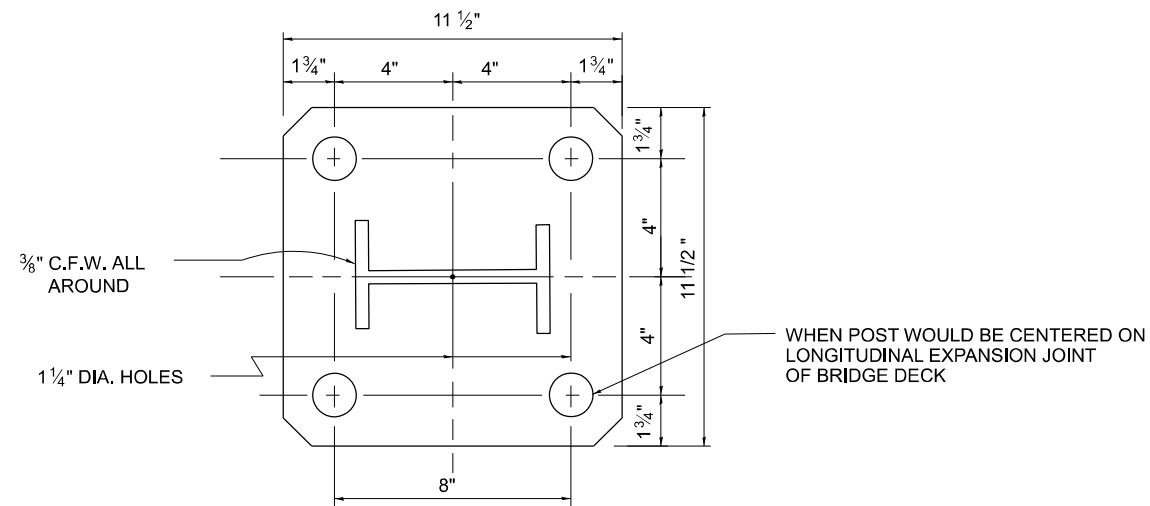
STEEL RAILING, TYPE 2399
 STRUCTURE NO.

SCALE: SHEET OF 4 SHEETS STA. TO STA.

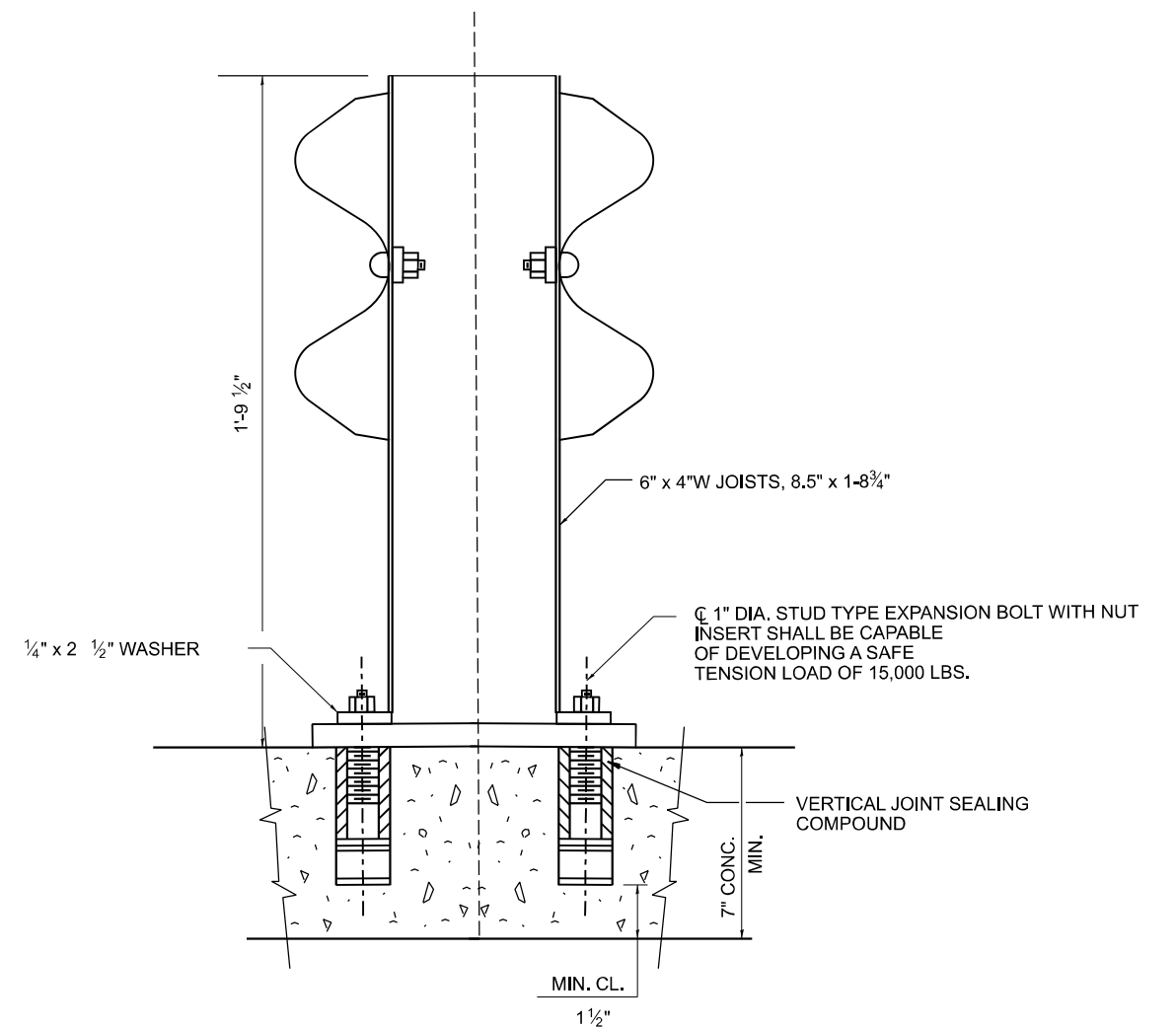
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-996-GRR	VARIOUS	32	4
			CONTRACT NO. 62X17	
ILLINOIS FED. AID PROJECT				

NOTE:

1. FOR DETAILS OF RAIL ELEMENTS, RAIL SPLICING, NUT, BOLT AND SIDE VIEW OF RAIL, SEE STANDARD 2230-2.
2. ALL WELDS SHALL BE GROUND SMOOTH
3. POSTS SHALL BE CUT AND WELDED TO THE BASE PLATE SO THAT THE POST WILL BE PLUMB WHEN ERECTED.
4. 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.
5. PROVIDE 11#8" AND 21#16" GALVANIZED SHIMS FOR 25% OF THE POSTS.



RAIL POST BASE ϕ
 ϕ 11 1/2" x 1 1/4" x 11 1/2"



MODEL: BM-02 [Sheet]
 FILE NAME: c:\p\work\p\work\ledezma\m1015251\100225-shh-Dist\Stds.dgn

USER NAME = rodrigo.ledezma	DESIGNED -	REVISED - R. RITCHIE 05-02-00
PLOT SCALE = 0.16666633' / in.	DRAWN - RFL	REVISED -
PLOT DATE = 7/15/2024	CHECKED -	REVISED -
	DATE - 10-31-88	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

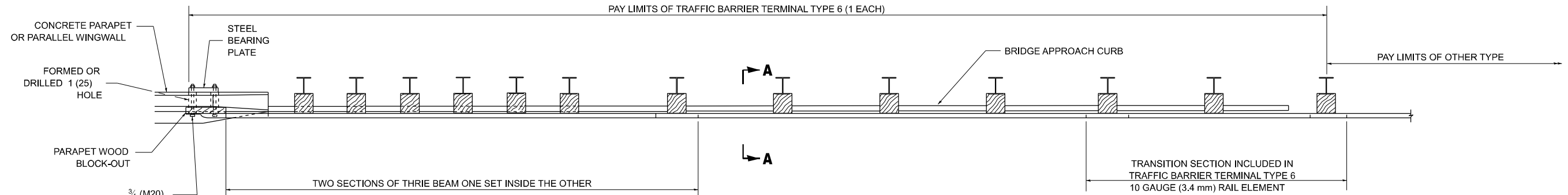
**ANCHOR DETAIL FOR STEEL PLATE BEAM
 GUARDRAIL ON CONCRETE**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

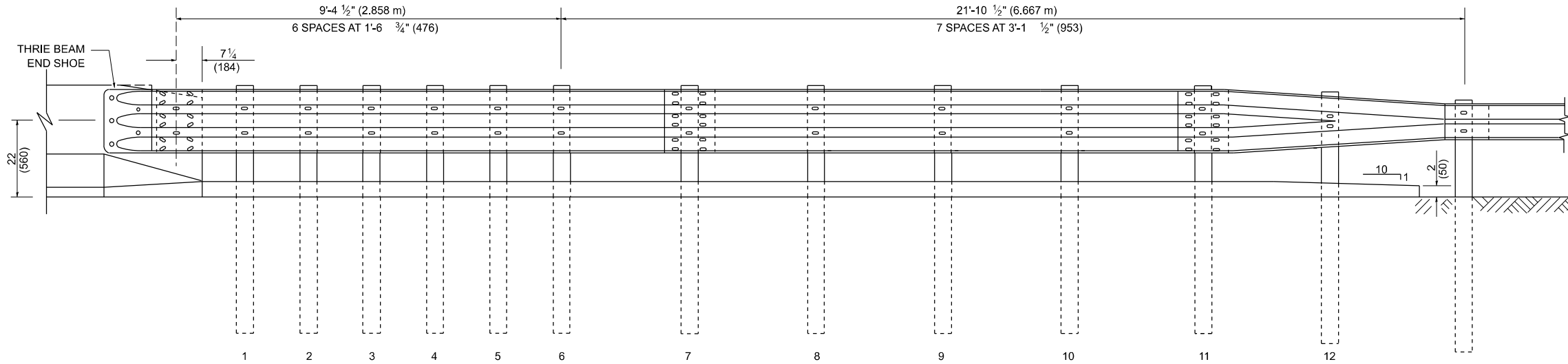
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-996-GRR	VARIOUS	32	1
BM-02		CONTRACT NO. 62X17		
ILLINOIS FED. AID PROJECT				

PARAPET OR WINGWALL

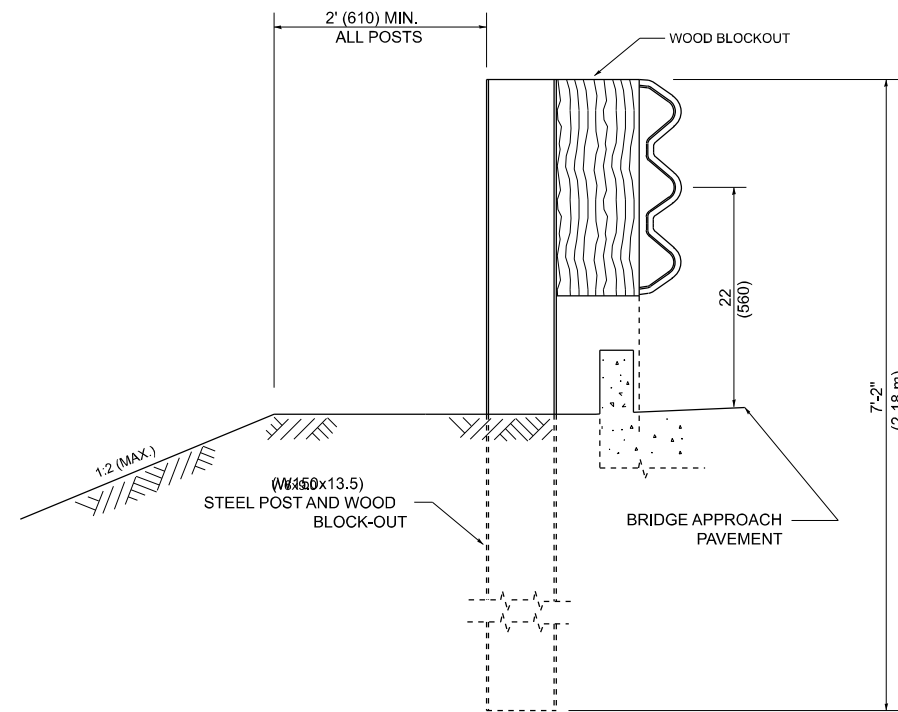
PAY LIMITS OF TRAFFIC BARRIER TERMINAL TYPE 6 (1 EACH)



PLAN



ELEVATION



SECTION A-A

GENERAL NOTES

TO BE USED WHEN CONNECTING TO EXISTING GUARD RAILING PRIOR TO THE MIDWEST GUARDRAIL SYSTEM.

SEE STANDARD 630001 FOR DETAILS OF GUARDRAIL NOT SHOWN.

THRIE BEAM RAIL SHALL BE BOLTED TO BLOCK-OUT AT ALL POSTS.

SEE STANDARD 420401 FOR DETAILS OF BRIDGE APPROACH PAVEMENT.

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.

ILLINOIS STATE STANDARD:
 631031-05 02/19/2008

MODEL: BM-22a (Sheet)
 FILE NAME: c:\p\work\project\ledezma\m1015251\100225-shh-Dist\Std.dgn

USER NAME = rodrigo.ledezma	DESIGNED -	REVISED -
DRAWN -	REVISOR - 631031-05 02/19/2008	
PLOT SCALE = 0.16666633' / in.	CHECKED -	REVISED -
PLOT DATE = 7/15/2024	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

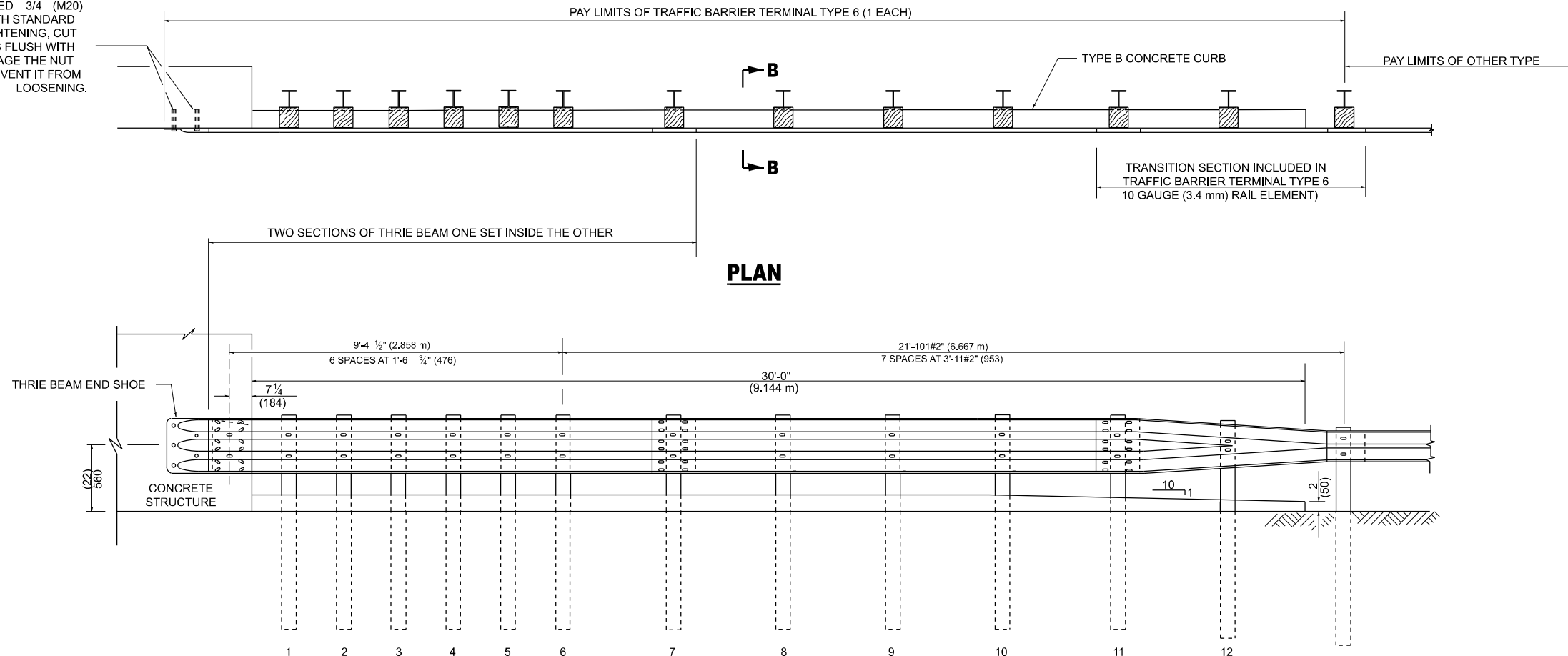
TYPE 6 TERMINAL
 FOR USE WITH 21" HIGH SPBGR

SCALE: NONE SHEET 1 OF 3 SHEETS STA. TO STA.

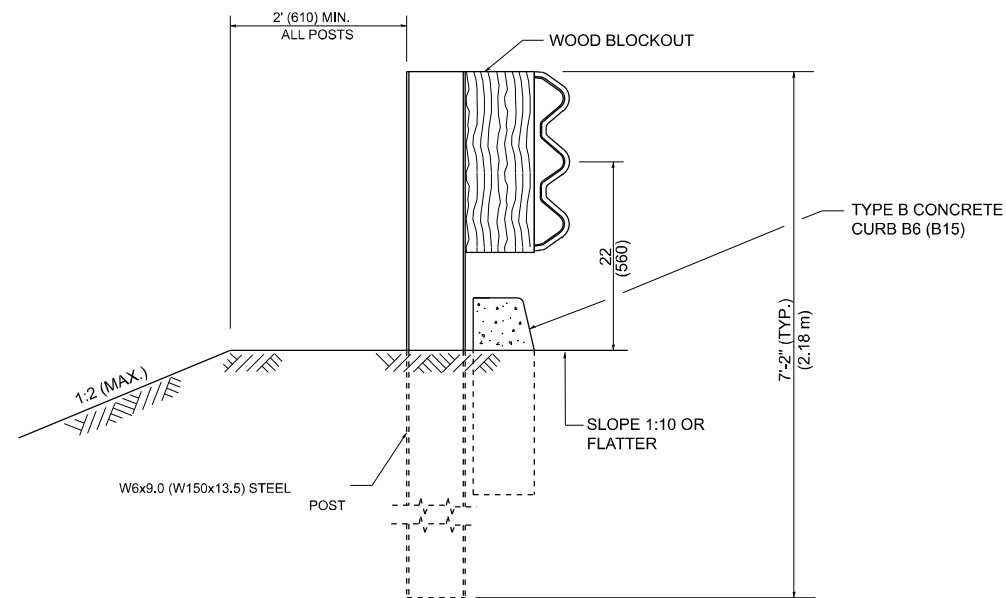
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-996-GRR	VARIOUS	32	2
BM 22			CONTRACT NO. 62X17	
ILLINOIS FED. AID PROJECT				

OTHER CONCRETE STRUCTURE

5 EPOXY GROUTED 3/4" (M20) ANCHOR BOLTS WITH STANDARD WASHERS. AFTER TIGHTENING, CUT THE ANCHOR BOLTS FLUSH WITH NUTS, AND DAMAGE THE NUT TO PREVENT IT FROM LOOSENING.



ELEVATION



ILLINOIS STATE STANDARD:
631031-05 02/19/2008

MODEL: BM-22h (Sheet)
FILE NAME: c:\p\work\project\ledezma\m1015251\02225-shh-Dist\Std.dgn

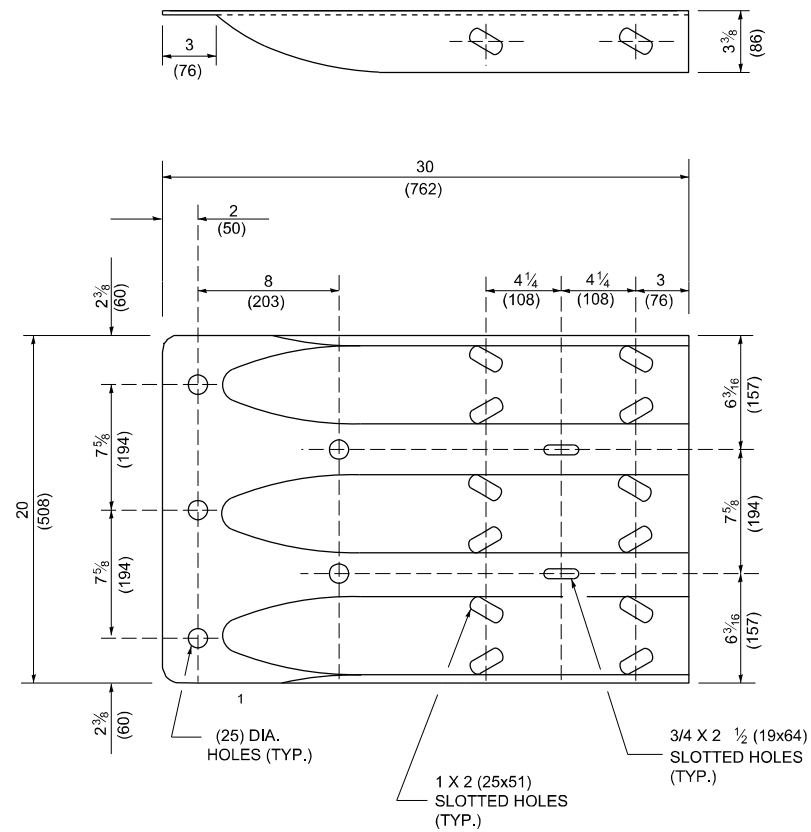
USER NAME = rodrigo.ledezma	DESIGNED -	REVISED -
PLOT SCALE = 0.16666833' / in.	DRAWN -	REVISED - 631031-05 02/19/2008
PLOT DATE = 7/15/2024	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

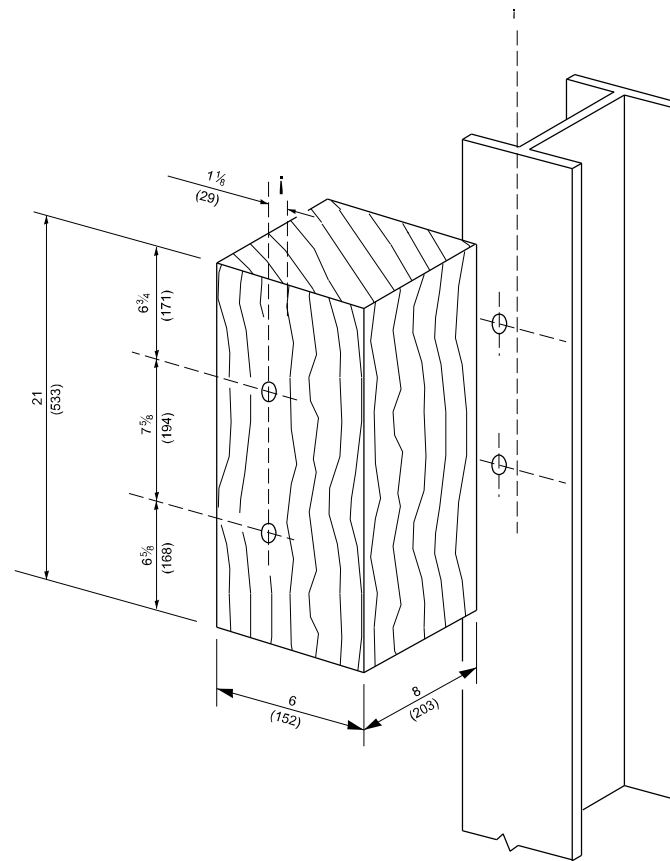
**TYPE 6 TERMINAL
FOR USE WITH 21" HIGH SPBGR**

SCALE: NONE SHEET 2 OF 3 SHEETS STA. TO STA.

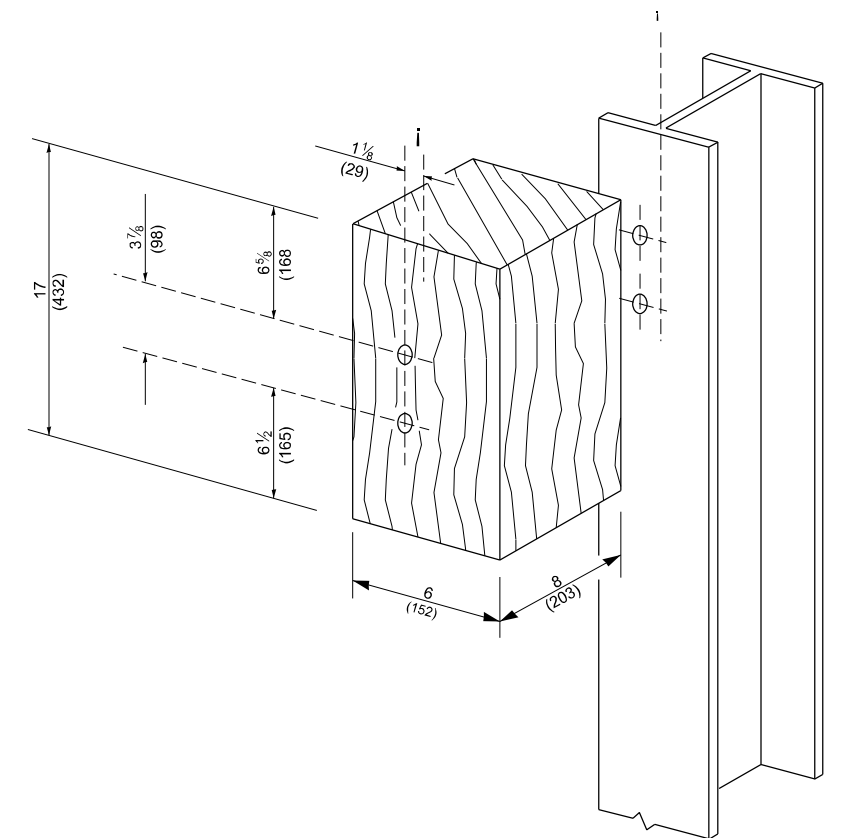
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-996-GRR	VARIOUS	32	3
BM 22			CONTRACT NO. 62X17	
ILLINOIS FED. AID PROJECT				



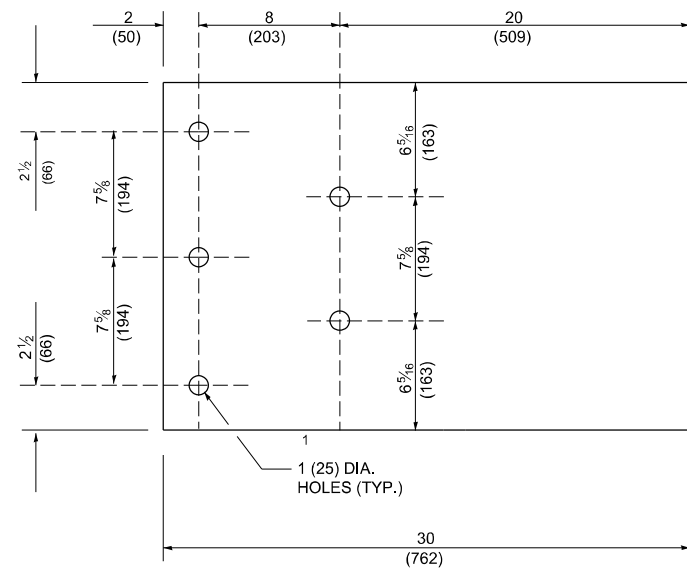
THRIE BEAM END SHOE DETAIL



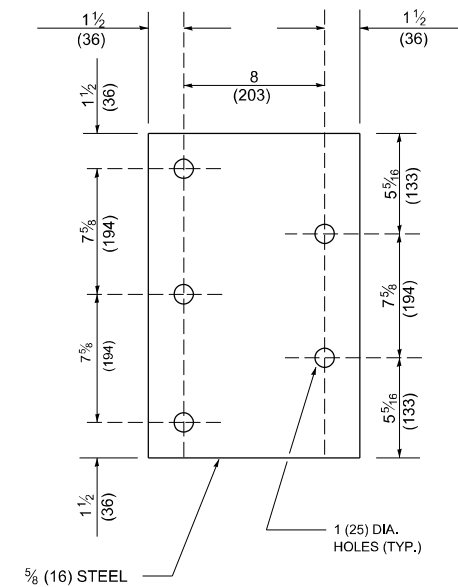
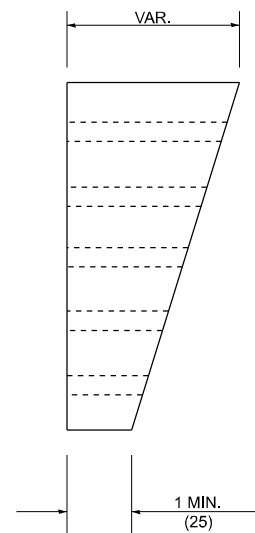
POSTS 1-11 WOOD BLOCKOUT DETAIL



POST 12 WOOD BLOCKOUT DETAIL



PARAPET WOOD BLOCK-OUT DETAIL



PARAPET STEEL BEARING PLATE DETAIL

(5 EACH INDIVIDUAL 5X5X 5/16 (125x125x16) STEEL PLATES WITH CENTERED 1 (25) HOLES MAY BE SUBSTITUTED FOR THE PLATE SHOWN.)

MODEL: BM-22c (Sheet)
FILE NAME: c:\p\work\project\ledezma\mid101525\1D100225-shh-Dist\Std.s.dgn

ILLINOIS STATE STANDARD:
631031-05 02/19/2008

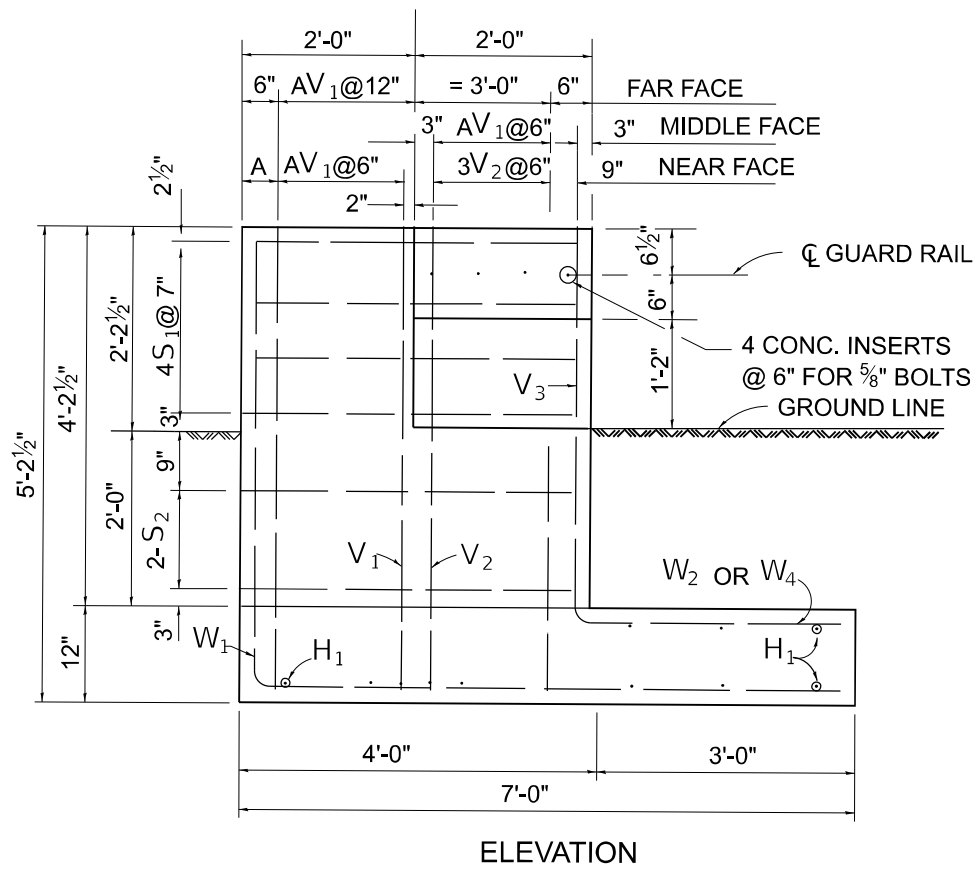
USER NAME = rodrigo.ledezma	DESIGNED -	REVISED -
DRAWN -	REVISOR - 631031-05 02/19/2008	
PLOT SCALE = 0.16666633' / in.	CHECKED -	REVISED -
PLOT DATE = 7/15/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

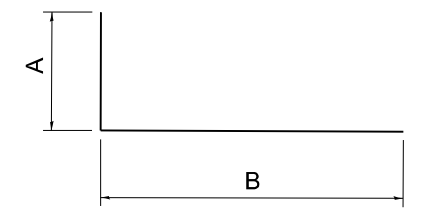
TYPE 6 TERMINAL
FOR USE WITH 21" HIGH SPBGR

SCALE: NONE SHEET 3 OF 3 SHEETS STA. TO STA.

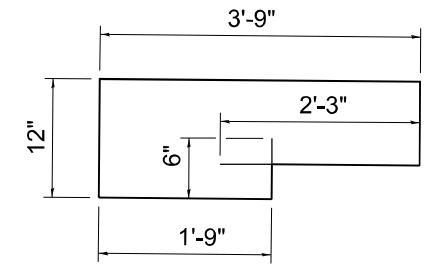
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-996-GRR	VARIOUS	32	4
BM 22		CONTRACT NO. 62X17		
ILLINOIS FED. AID PROJECT				



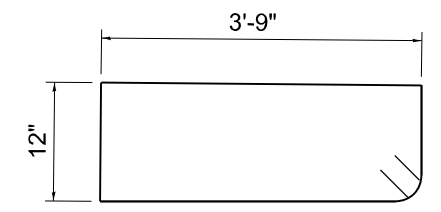
ELEVATION



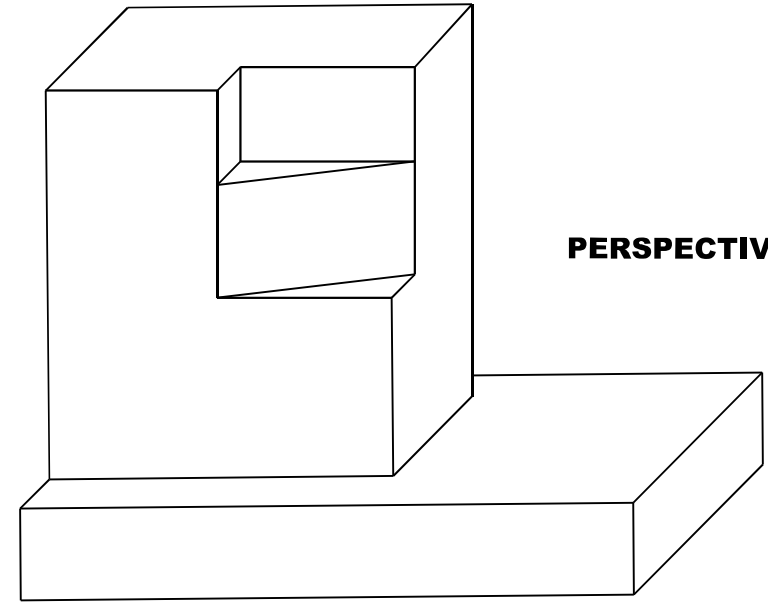
BAR	A	B	A+B
V ₁	4'-8"	6"	5'-2"
V ₂	2'-6"	6"	3'-0"
W ₁	4'-8"	6'-6"	11'-2"
W ₂	2'-0"	3'-0"	5'-0"
W ₄	4'-2"	3'-0"	7'-2"



S₁ BAR

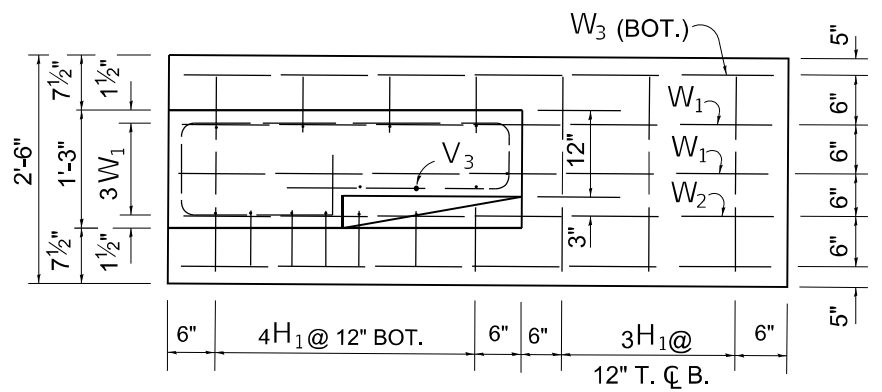


S₂ BAR



PERSPECTIVE VIEW

NOTES:
CLASS X CONCRETE SHALL BE USED THROUGHOUT
REINFORCEMENT TO BE SIZE #4 UNLESS OTHERWISE NOTED



FOOTING PLAN

BAR SCHEDULE

BAR	NO.	LENGTH
V ₁	8	5'-2"
V ₂	3	3'-0"
V ₃	4	3'-0"
W ₁	3	11'-2"
W ₂	1	5'-0"
W ₃	2	6'-6"
W ₄	2	7'-2"
S ₁	4	10'-0"
S ₂	2	10'-0"
H ₁	1	2'-3"

THIS SHEET IS FOR INFORMATION ONLY

MODEL: BM-3 (Sheet)
FILE NAME: c:\p\work\project\ledezma\m1015251\100225-shh-Dist\Dist.dgn

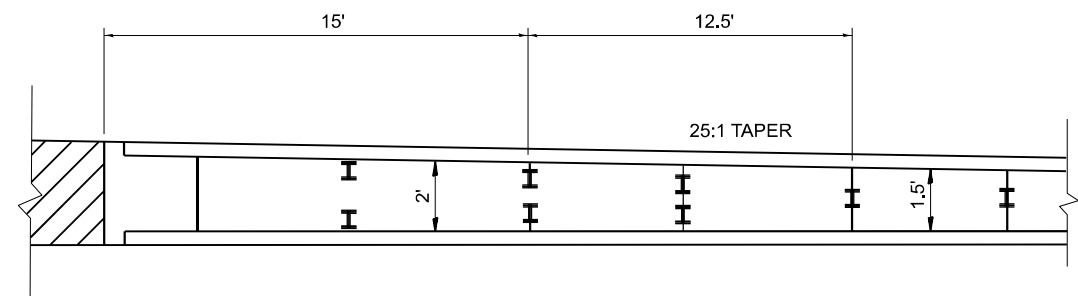
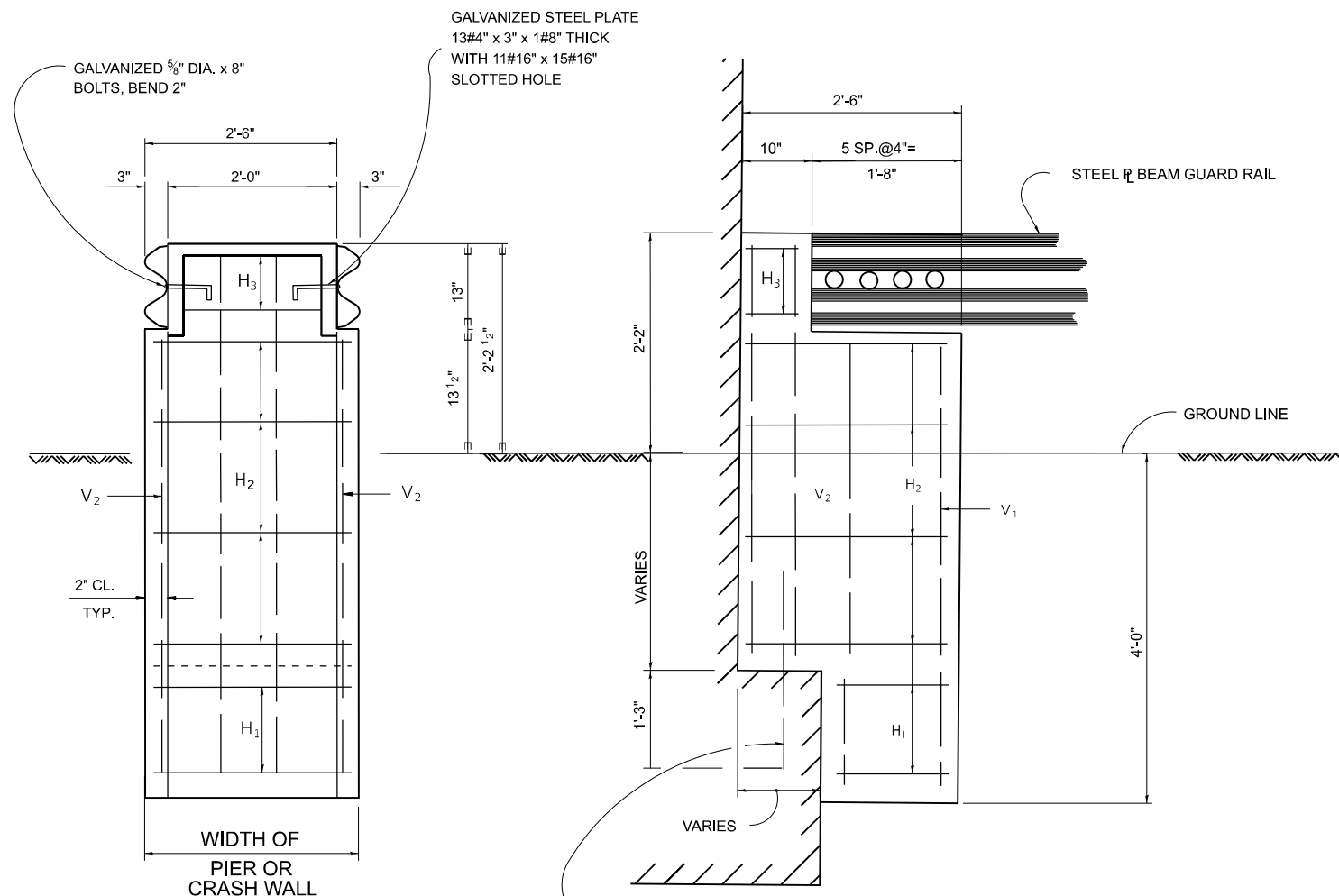
USER NAME = rodrigo.ledezma	DESIGNED -	REVISED - R. RITCHIE 06-02-00
DRAWN - R.F.L.	CHECKED -	REVISED -
PLOT SCALE = 0.16666833' / in.	DATE - 10-31-88	REVISED -
PLOT DATE = 7/10/2024		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL DETAIL FOR
GUARDRAIL ANCHOR BLOCK REPAIR

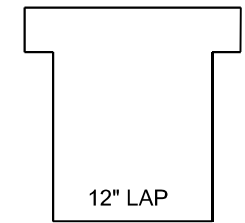
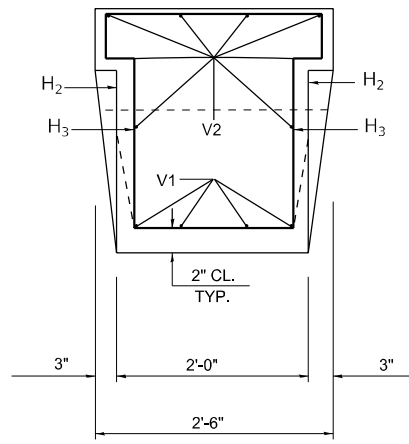
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-996-GRR	VARIOUS	32	5
BM-03		CONTRACT NO. 62X17		
ILLINOIS FED. AID PROJECT				

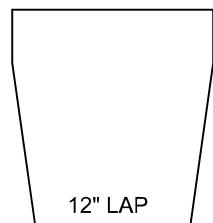


GUARD RAIL TRANSITIONS

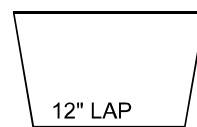
NOTES: CLASS X CONCRETE SHALL BE USED THROUGHOUT
REINFORCEMENT TO BE SIZE #4 UNLESS OTHERWISE
NOTED



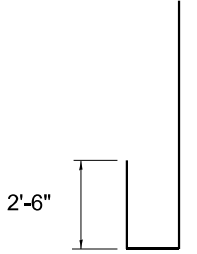
H₃-2 EACH



H₂-4 EACH



H₁-2 EACH



V₁-4 EACH



V₂-8 EACH

MODEL: BM-4 (Sheet)
FILE NAME: c:\p\work\project\ledezma\m1015251\100225-sh-Dis\Stds.dgn

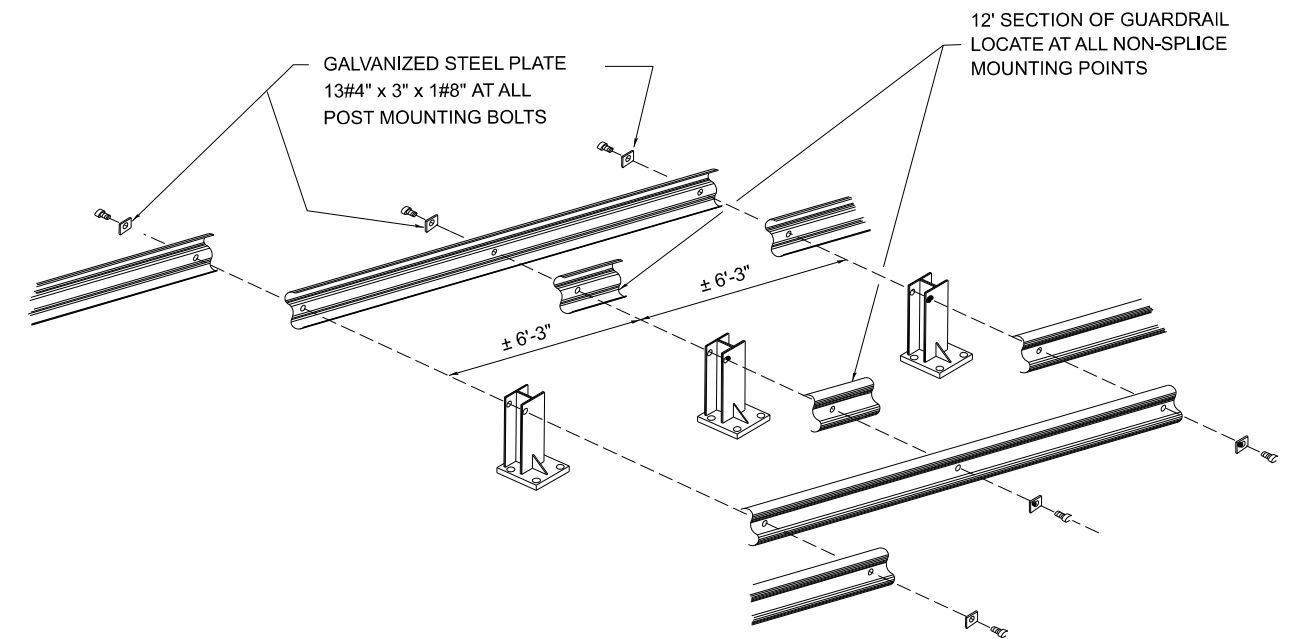
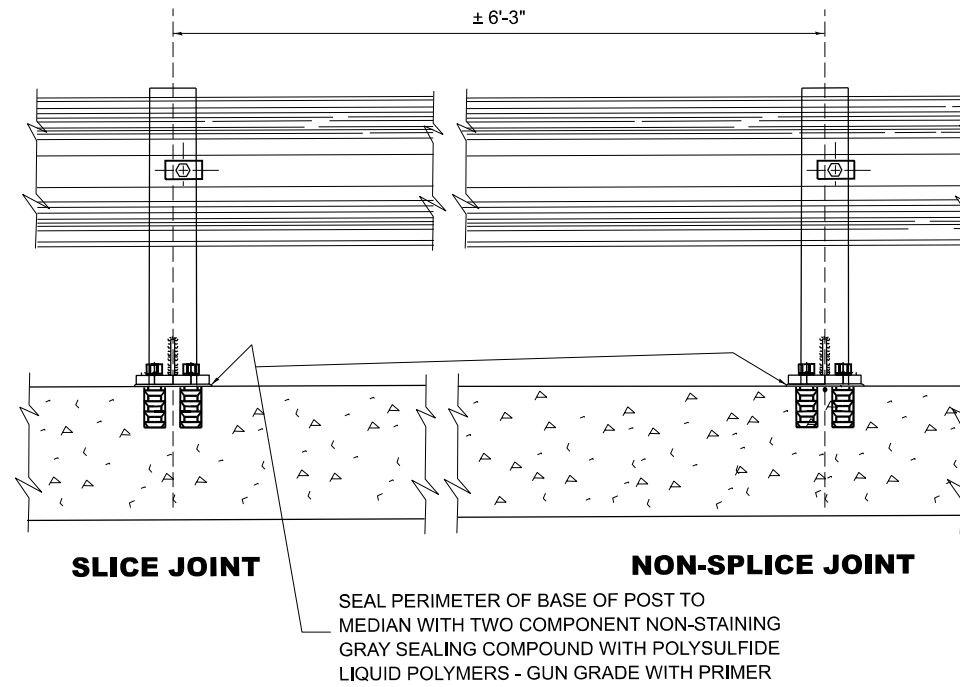
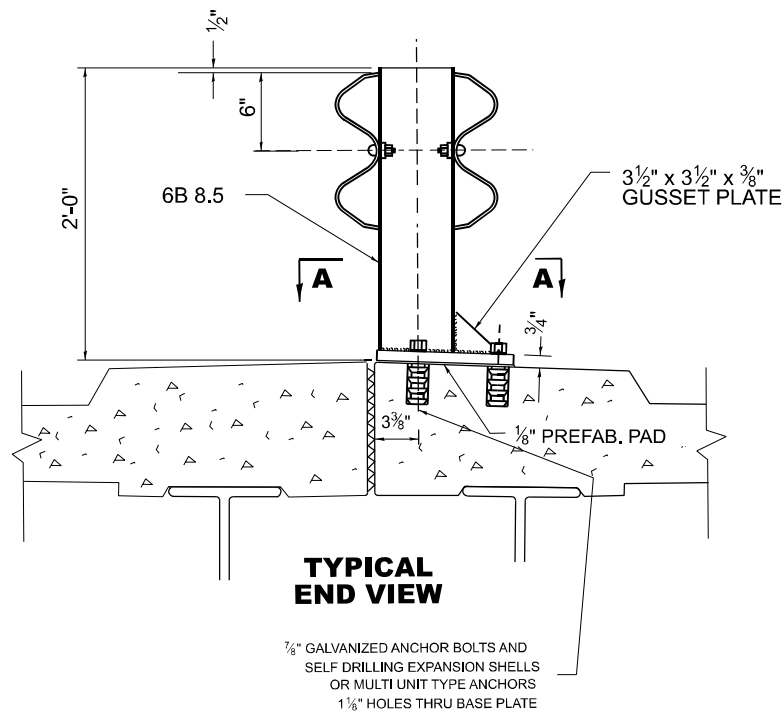
USER NAME = rodrigo.ledezma	DESIGNED -	REVISED - R. RITCHIE 05-02-00
PLOT SCALE = 0.16666633' / in.	DRAWN - R.F.L.	REVISED -
PLOT DATE = 7/15/2024	CHECKED -	REVISED -
	DATE - 10-31-88	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

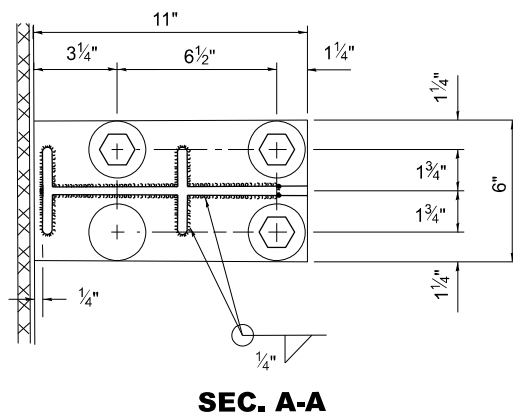
**TYPICAL DETAILS FOR STEEL PLATE BEAM GUARDRAIL
ANCHORAGE REPAIR**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-996-GRR	VARIOUS	32	6
BM-04			CONTRACT NO. 62X17	
ILLINOIS FED. AID PROJECT				



NOTE:
DIAMOND TIPPED DRILL SHALL BE USED TO DRILL THRU REINFORCEMENT BARS



- NOTE:**
1. POSTS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM DESIGNATIONS A-123 AND A-385.
 2. TWO PERCENT (2%) OF ALL ANCHOR BOLTS SHALL BE TEST LOADED IN PLACE. MIN. TEST LOAD = 8 KIPS.
 3. ALL BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION A-153.
 4. FOR MATERIAL COMPOSITION OF PREFABRICATED PAD, SEE ARTICLE 54.9(F), (BEARING AND ANCHORAGE), OF THE STANDARD SPECIFICATIONS.
 5. PROVIDE 1-1#8" AND 2-1#16" GALVANIZED STEEL SHIMS FOR 25% OF THE POSTS.
 6. IF ONE ANCHOR BOLT FAILS DURING TEST, TWO OTHER ANCHOR BOLTS SHALL BE TESTED. TESTING EQUIPMENT CAN BE OBTAINED FROM BOLT COMPANIES.

THIS SHEET IS FOR INFORMATION ONLY

MODEL: BM-5 (Sheet)
FILE NAME: c:\p\work\project\ledezma\m1015251\100225-shh-Dist\Stds.dgn

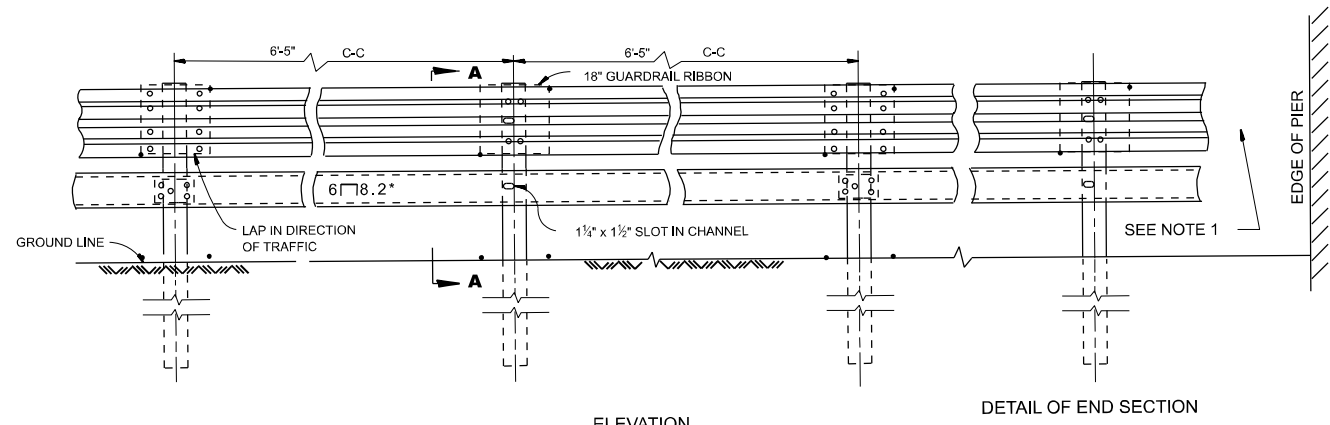
USER NAME = rodrigo.ledezma	DESIGNED -	REVISED - R. RITCHIE 05-02-00
PLOT SCALE = 0.16666833 / in.	DRAWN - R.F.L.	REVISED -
PLOT DATE = 7/15/2024	CHECKED -	REVISED -
	DATE - 10-31-88	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL DETAIL FOR CENTER LONGITUDINAL JOINT
GUARDRAIL JOINT

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

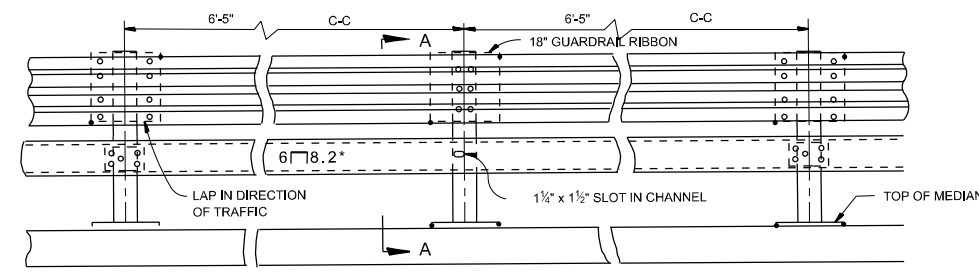
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-996-GRR	VARIOUS	32	7
BM-05		CONTRACT NO. 62X17		
ILLINOIS FED. AID PROJECT				



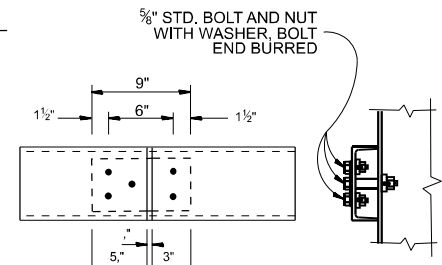
ELEVATION

DETAIL OF END SECTION

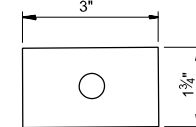
NOTE 1:
FOR DETAILS OF GUARDRAIL END ANCHORAGE AT PIERS, SEE SHEET NO. _____



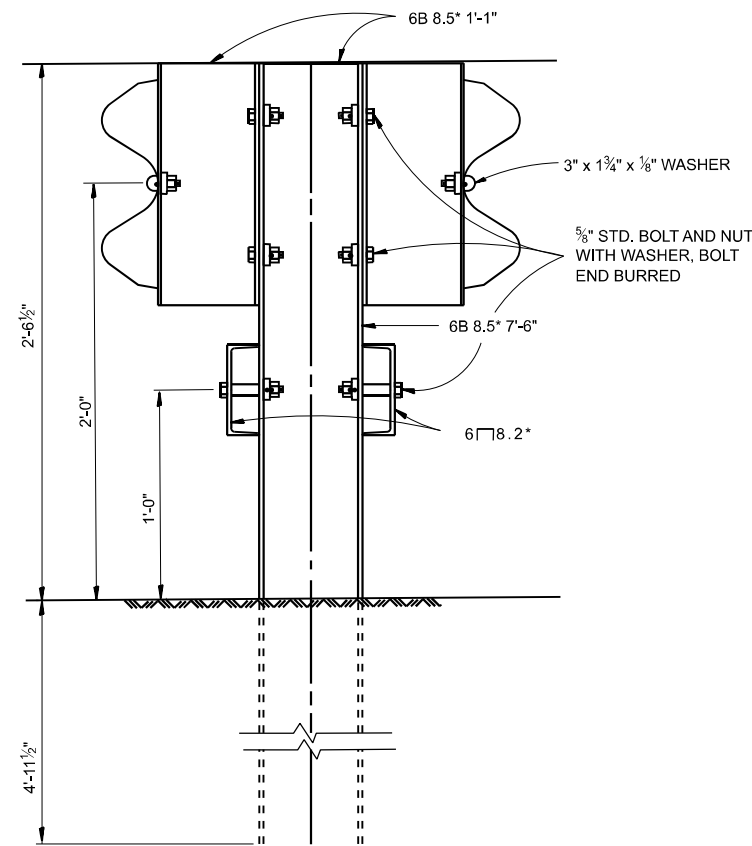
ELEVATION



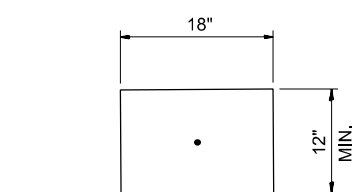
CHANNEL SPLICE
PLATE 8 3/4" x 4 1/2" x 1/4"



WASHER
PLATE 3" x 1 3/4" x 1/4"

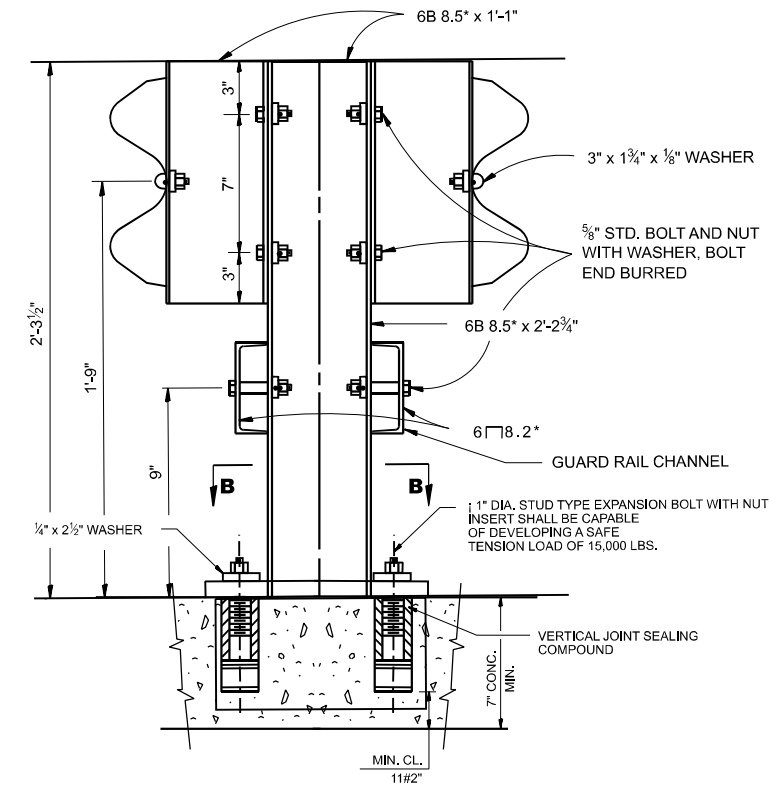


SECTION A-A



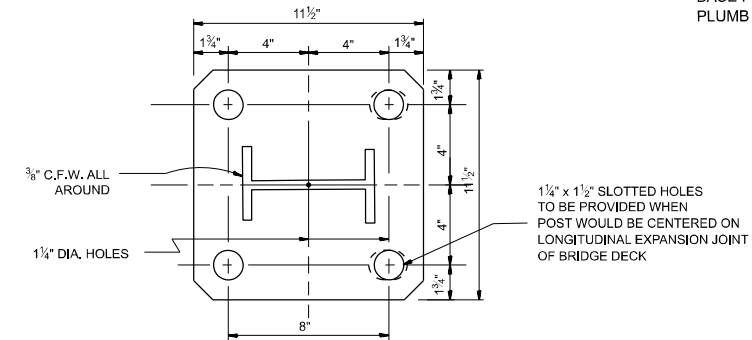
18" GUARDRAIL ELEMENT SPLICE

NOTE:
FOR DETAIL OF RAIL ELEMENT, RAIL SPLICING, BOLT, AND NUT, SEE STATE STANDARD 2230.
A 13#8" x 3" x 1#8" STEEL PLATE WASHER AS SHOWN ON THIS DRAWING SHALL BE PLACED BETWEEN THE BOLT HEAD AND THE GUARDRAIL RIBBON AT ALL MOUNTING POINTS. AN 18" PIECE OF GUARDRAIL RIBBON SHALL BE INSERTED BETWEEN THE CONTINUOUS RIBBON AND THE POST AT NON-SLICE MOUNTING POINTS.
RAIL, CHANNELS, POSTS, BASE PLATES, FASTENINGS, AND ALL OTHER EXPOSED ACCESSORIES SHALL BE GALVANIZED.



SECTION A-A
ANCHORAGE DETAIL

NOTE:
ALL WELDS SHALL BE GROUND SMOOTH. POSTS SHALL BE CUT AND WELDED TO THE BASE PLATE SO THAT THE POSTS WILL BE PLUMB WHEN ERECTED.



RAIL POST BASE PLATE
LP 11 1/2" x 1 1/4" x 11 1/2"

SECTION B-B

THIS SHEET IS FOR INFORMATION ONLY

MODEL: BM-6 (Sheet)
FILE NAME: c:\p\work\project\ledezma\m1015251\100225-sh-Dis\Dis.dgn

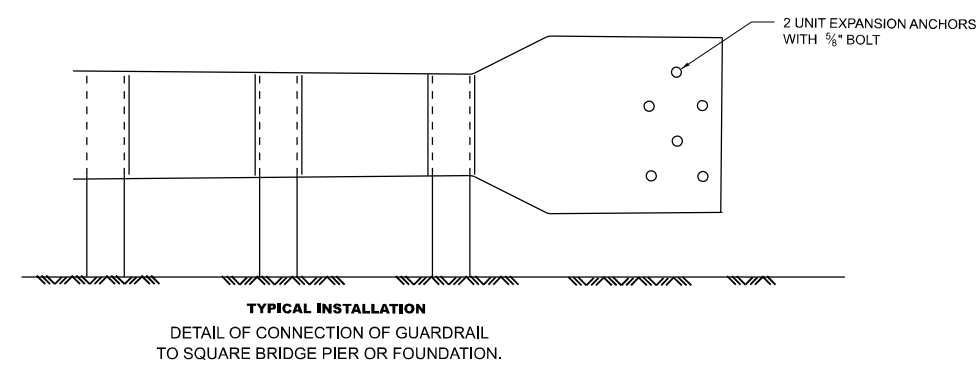
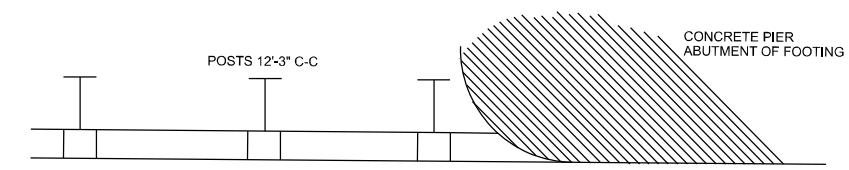
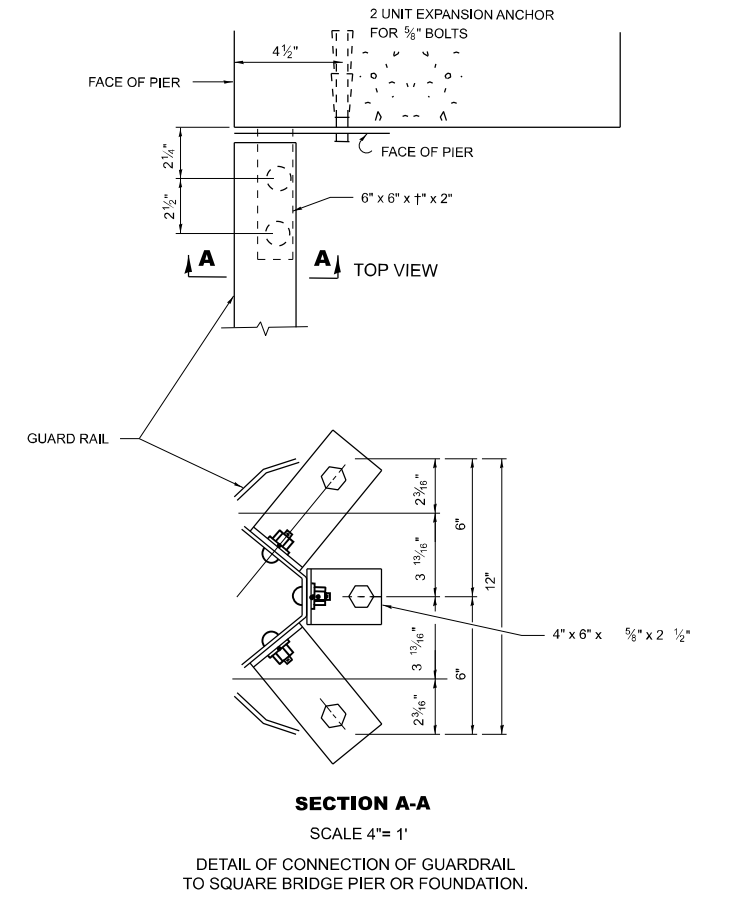
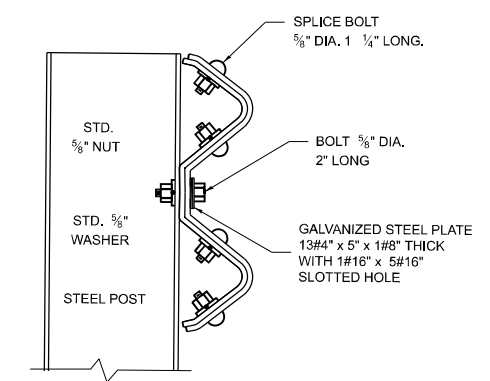
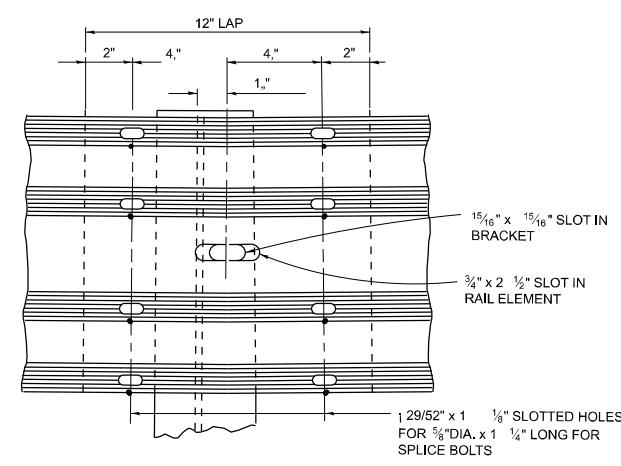
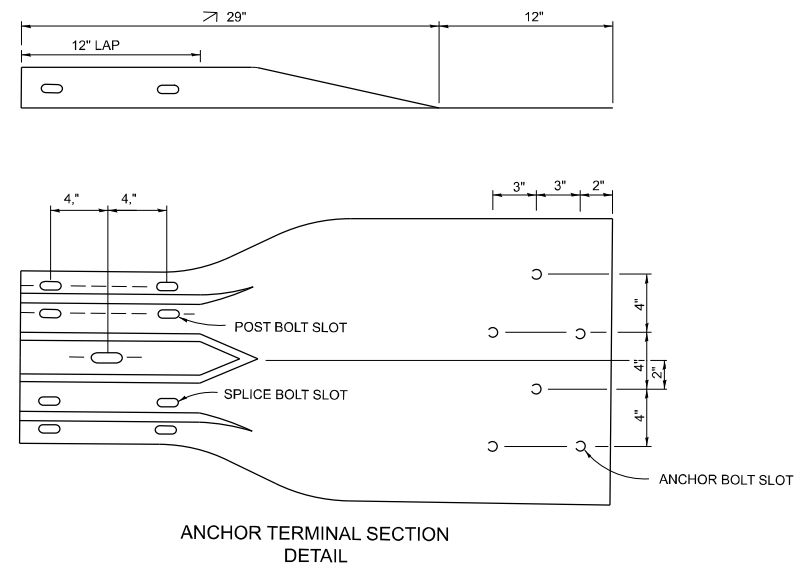
USER NAME = rodrigo.ledezma	DESIGNED -	REVISED - R. RITCHIE 05-02-00
DRAWN - R.F.L.	REVISED -	
PLOT SCALE = 0.16666633' / in.	CHECKED -	REVISED -
PLOT DATE = 7/15/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEEL PLATE BEAM GUARDRAIL
SPECIAL

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2024-996-GRR	VARIOUS	32	8
BM-06		CONTRACT NO. 62X17		
ILLINOIS FED. AID PROJECT				



THIS SHEET IS FOR INFORMATION ONLY

MODEL: BM-A7 (Sheet)
FILE NAME: c:\p\work\project\ledezma\m101525\1D100225-shh-Dist\Dist.dgn

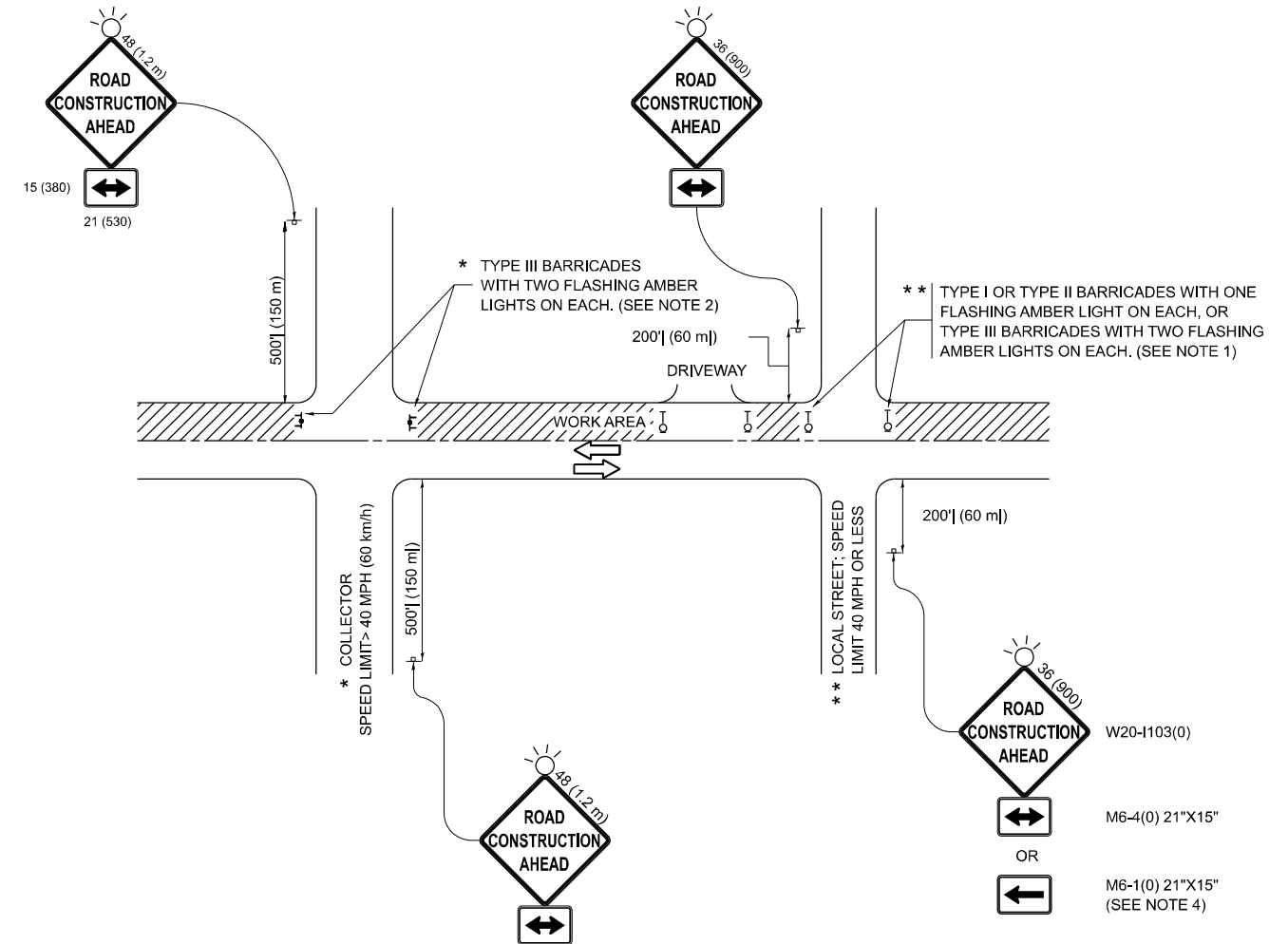
USER NAME = rodrigo.ledezma	DESIGNED -	REVISED - R, RITCHIE 05-02-00
PLOT SCALE = 0.16666633' / in.	DRAWN - R.F.L.	REVISED -
PLOT DATE = 7/15/2024	CHECKED -	REVISED -
	DATE - 10-31-88	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF GUARDRAIL SUPPORT
AND END ANCHORAGE

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-996-GRR	VARIOUS	32	9
BM-07		CONTRACT NO. 62X17		
ILLINOIS FED. AID PROJECT				



NOTES:

1. 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 HEIGHT.
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 ENGINEER.
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.

MODEL: TC-10 (Sheet)
FILE NAME: c:\p\work\p\work\ledezma\m1015251\100225-shh-Dist\Std.dgn

USER NAME = rodrigo.ledezma	DESIGNED - L.H.A.	REVISED - T. RAMMACHER 01-06-00
	DRAWN -	REVISED - A. SCHUETZE 07-01-13
PLOT SCALE = 0.16666833" / in.	CHECKED -	REVISED - A. SCHUETZE 09-15-06
PLOT DATE = 7/15/2024	DATE - 06-89	REVISED - D. SENDERAK 05-03-24

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-996-GRR	VARIOUS	32	10
TC-10			CONTRACT NO. 62X17	
ILLINOIS FED. AID PROJECT				

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

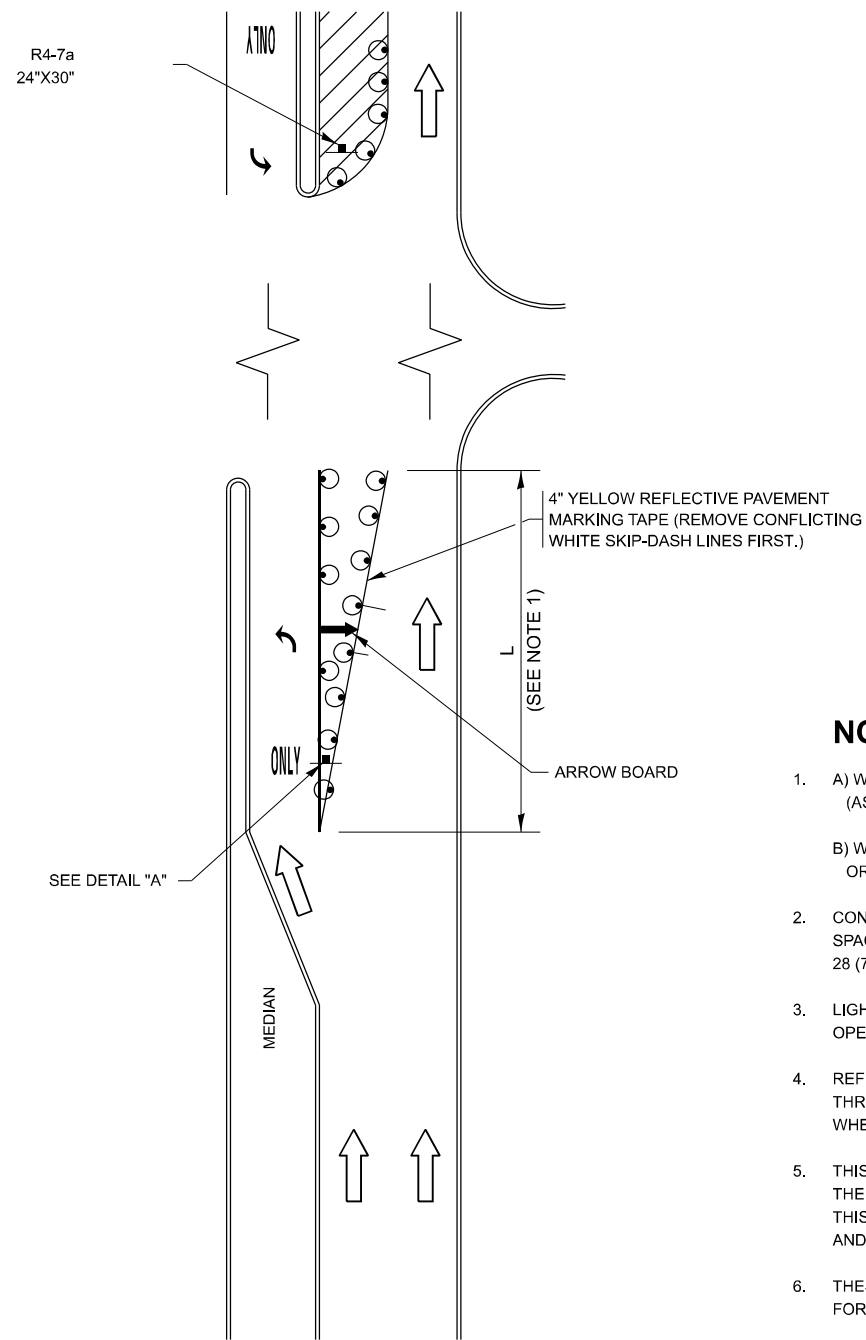


FIGURE 1

LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- ARROW BOARD
- TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- SIGN ASSEMBLY
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

NOTES:

1. A) WHEN "L" IS \leq 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" R3-1100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 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 REQUIREMENTS.
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.

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

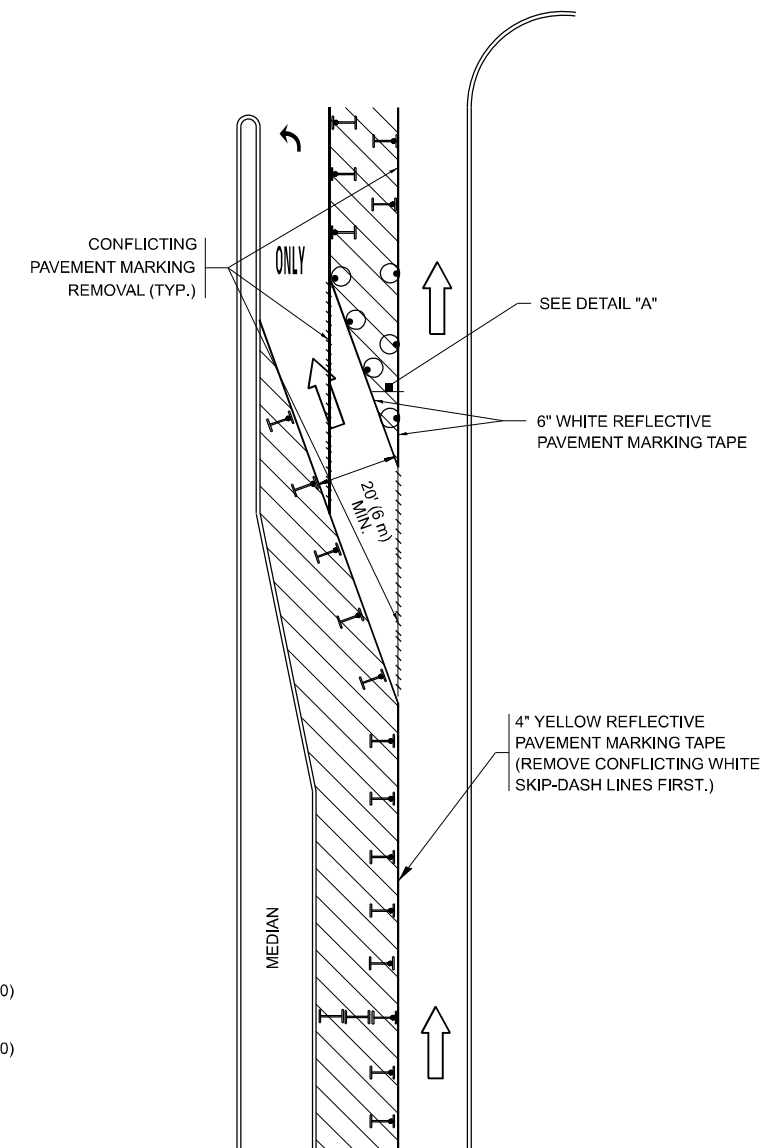
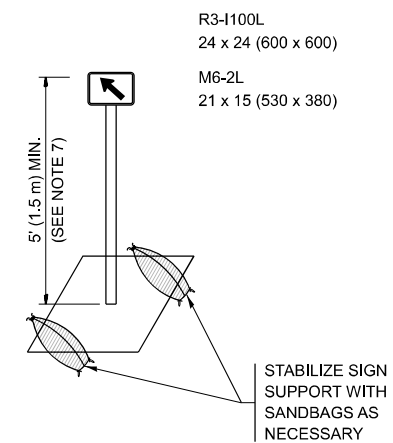


FIGURE 2



DETAIL A

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

MODEL: TC-14 (Sheet)
FILE NAME: c:\p\work\project\ledezma\1015251\100225-shh-Dist\Std.dgn

USER NAME = rodrigo.ledezma	DESIGNED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09
	DRAWN - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13
PLOT SCALE = 0.16666633' / in.	CHECKED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16
PLOT DATE = 7/15/2024	DATE - T. RAMMACHER 01-06-00	REVISED -

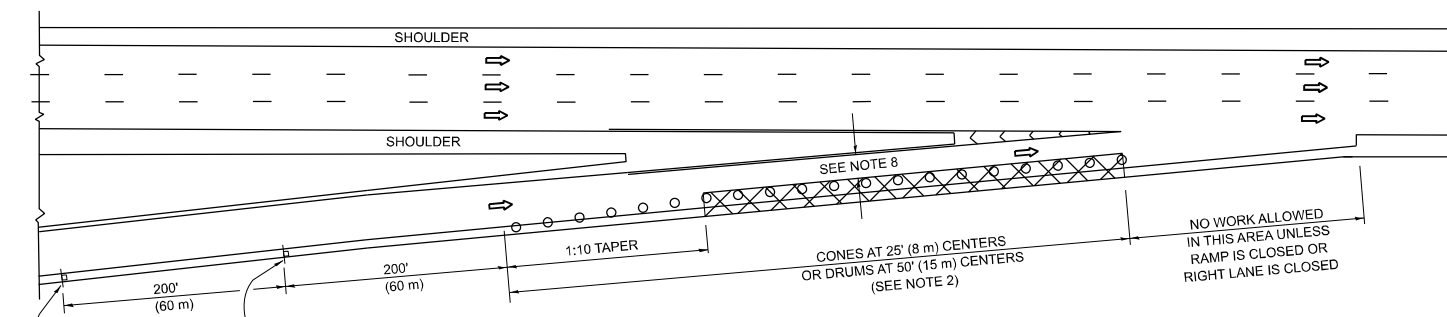
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)

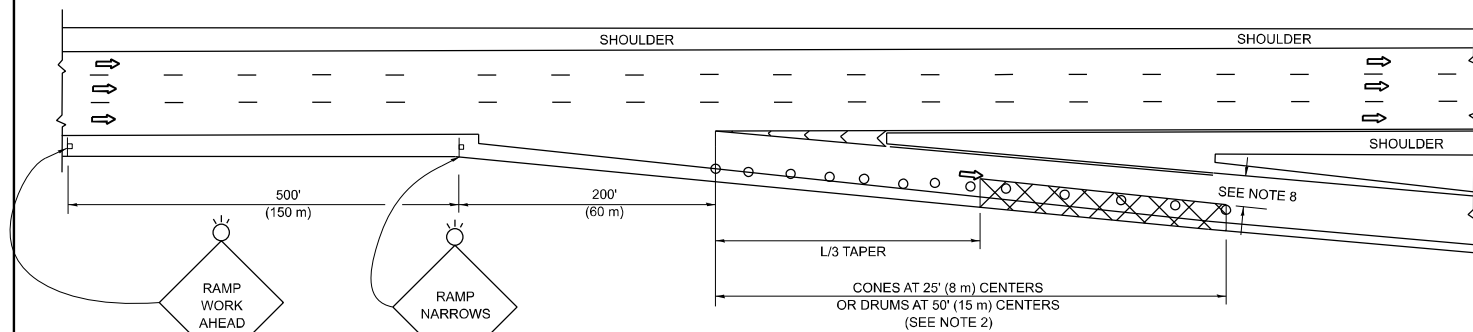
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-996-GRR	VARIOUS	32	11
TC-14		CONTRACT NO. 62X17		
ILLINOIS FED. AID PROJECT				

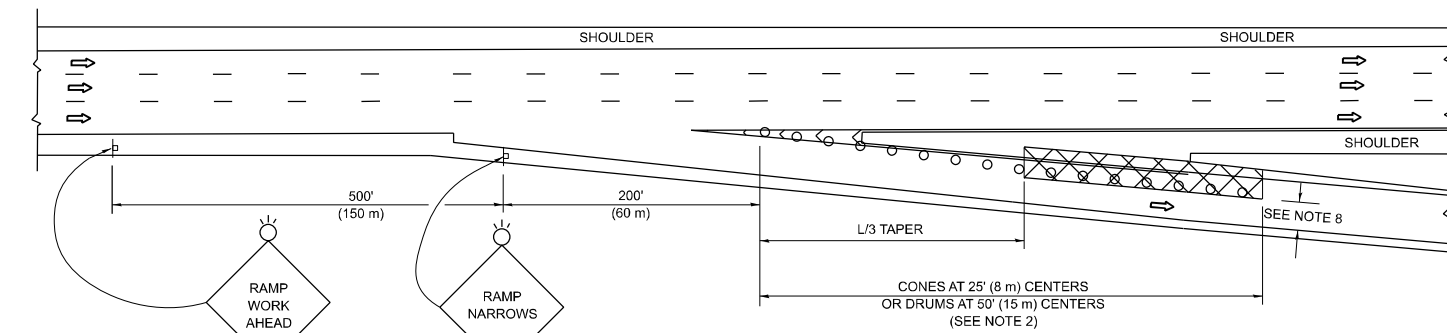
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

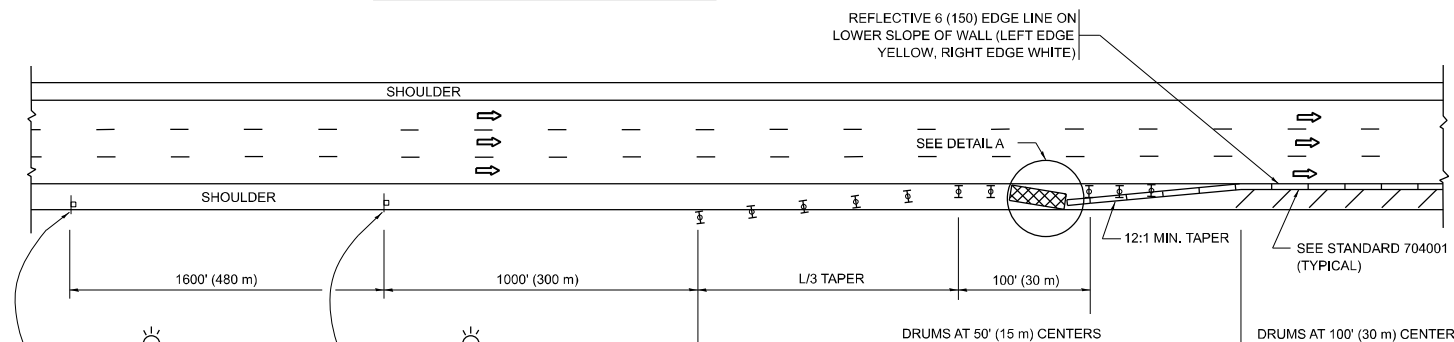
- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

GENERAL NOTES:

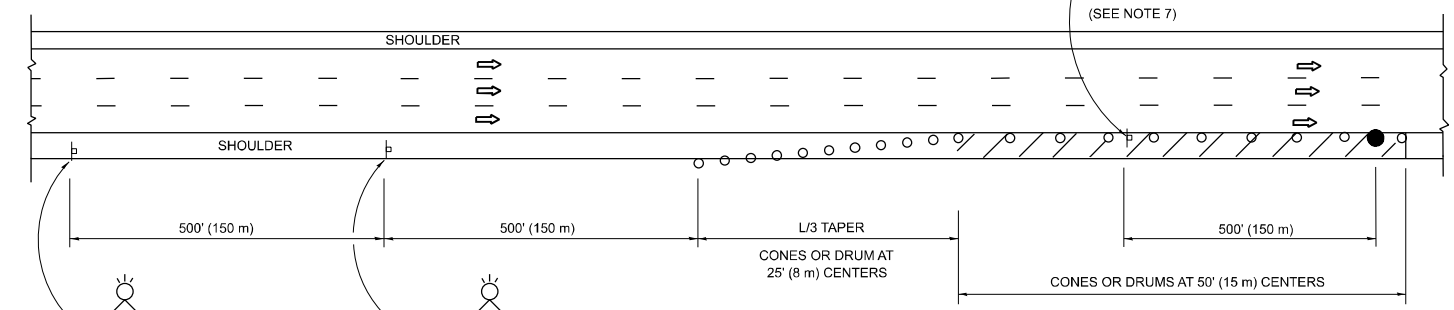
- THE "L" DISTANCE EQUALS:

SPEED LIMIT	FORMULAS
45 mph (80 km/h)	METRIC ENGLISH
OR GREATER:	$L=0.65(W)(S)$ $L=(W)(S)$
	W = WIDTH OF OFFSET IN FEET (METERS)
	S = NORMAL POSTED SPEED MPH (KM/H)
- TYPE II BARRICADES OR DRUMS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES. TYPE II BARRICADES OR DRUMS WITH MONODIRECTIONAL STEADY BURN LIGHTS ARE REQUIRED FOR DELINEATING OBSTACLES, EXCAVATIONS, OR HAZARDS EXCEEDING 100 FT (30m) IN LENGTH AT NIGHT.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

SHOULDER CLOSURE DETAILS

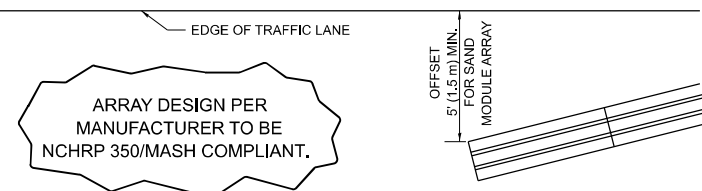


PERMANENT SHOULDER CLOSURE



TEMPORARY SHOULDER CLOSURE

- THIS DETAIL IS USED WHERE:
- VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCR OACH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.



**DETAIL "A"
IMPACT ATTENUATOR, TEMPORARY
(SEE NOTE 5)**

- THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
- AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
- THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
 - FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
 - THE WORK ACTIVITY REQUIRES FREQUENT ENCR OACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
- 12' MIN. WIDTH TANGENT SECTION
16' MIN. WIDTH CURVE SECTION.
- TEMPORARY SHOULDER AND NON-SYSTEM INTERCHANGE PARTIAL CLOSURES ARE ALLOWED WEEKDAYS BETWEEN 9:00 A.M. AND 3:00 P.M. AND BETWEEN 7:00 P.M. AND 5:00 A.M. OR AS APPROVED BY THE EXPRESSWAY TRAFFIC OPERATIONS ENGINEER. PERMANENT SHOULDER AND PARTIAL RAMP CLOSURES WILL ONLY BE PERMITTED IF CALLED FOR IN THE PLANS OR AS APPROVED BY THE EXPRESSWAY OPERATIONS ENGINEER.

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

MODEL: TC-17 (Sheet)
FILE NAME: c:\p\work\vw\100225-shh-DistStatus.dgn

USER NAME = rodrigo.ledezma	DESIGNED -	REVISED - M.D. 06-13
	DRAWN - D.W.S.	REVISED - M.D. 01-18
PLOT SCALE = 0.16666833 / in.	CHECKED -	REVISED - M.D. 10-20
PLOT DATE = 7/15/2024	DATE - 11-96	REVISED - D.S. 05-24

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

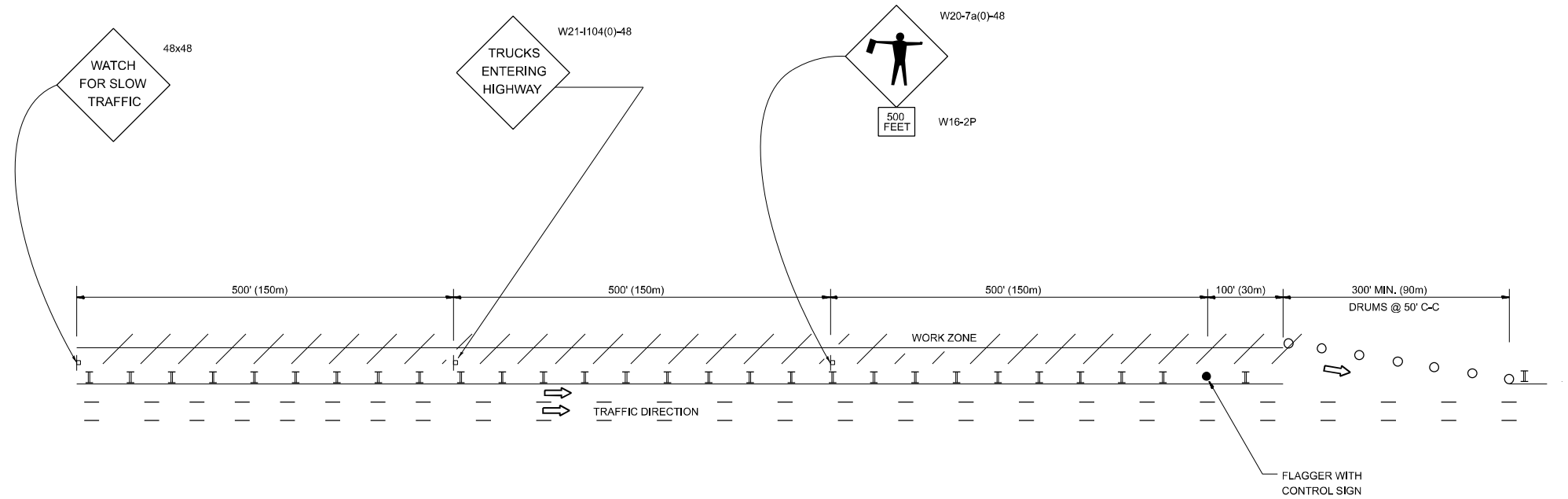
**TRAFFIC CONTROL DETAILS FOR FREEWAY
SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

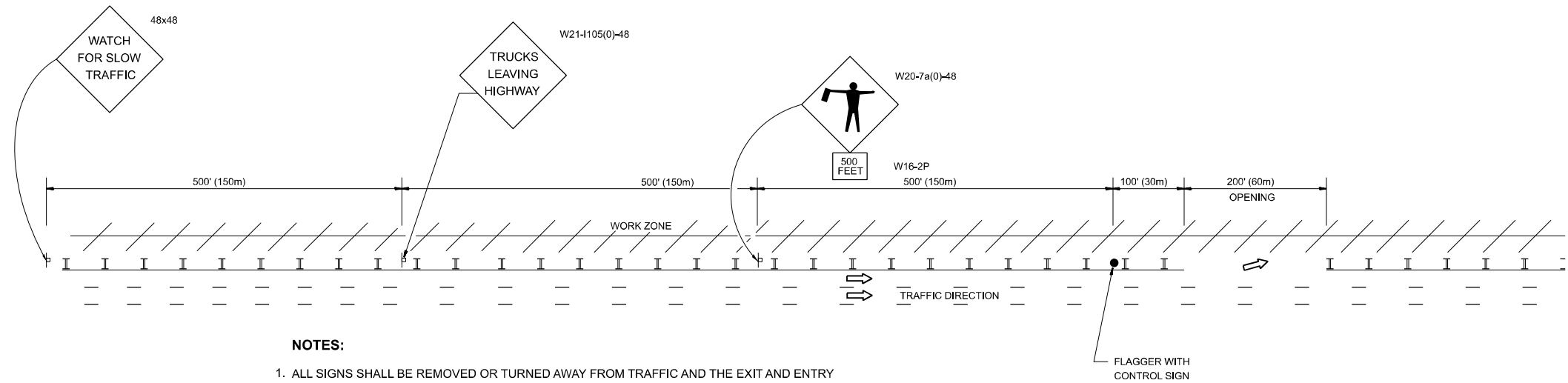
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-996-GRR	VARIOUS	32	12
TC-17			CONTRACT NO. 62X17	
ILLINOIS FED. AID PROJECT				

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



NOTES:

1. ALL SIGNS SHALL BE REMOVED OR TURNED AWAY FROM TRAFFIC AND THE EXIT AND ENTRY OPENINGS SHALL BE CLOSED WHEN THE FLAGGING OPERATION CEASES. NON OPERATING EQUIPMENT SHALL COMPLY WITH ARTICLE 701.11
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

MODEL: TC-18 (Sheet)
FILE NAME: c:\p\work\pww\ledezma\m1015251\100225-shh-Dist\Std.dgn

USER NAME = rodrigo.ledezma	DESIGNED -
	DRAWN -
PLOT SCALE = 0.16666833 / in.	CHECKED -
PLOT DATE = 7/15/2024	DATE -

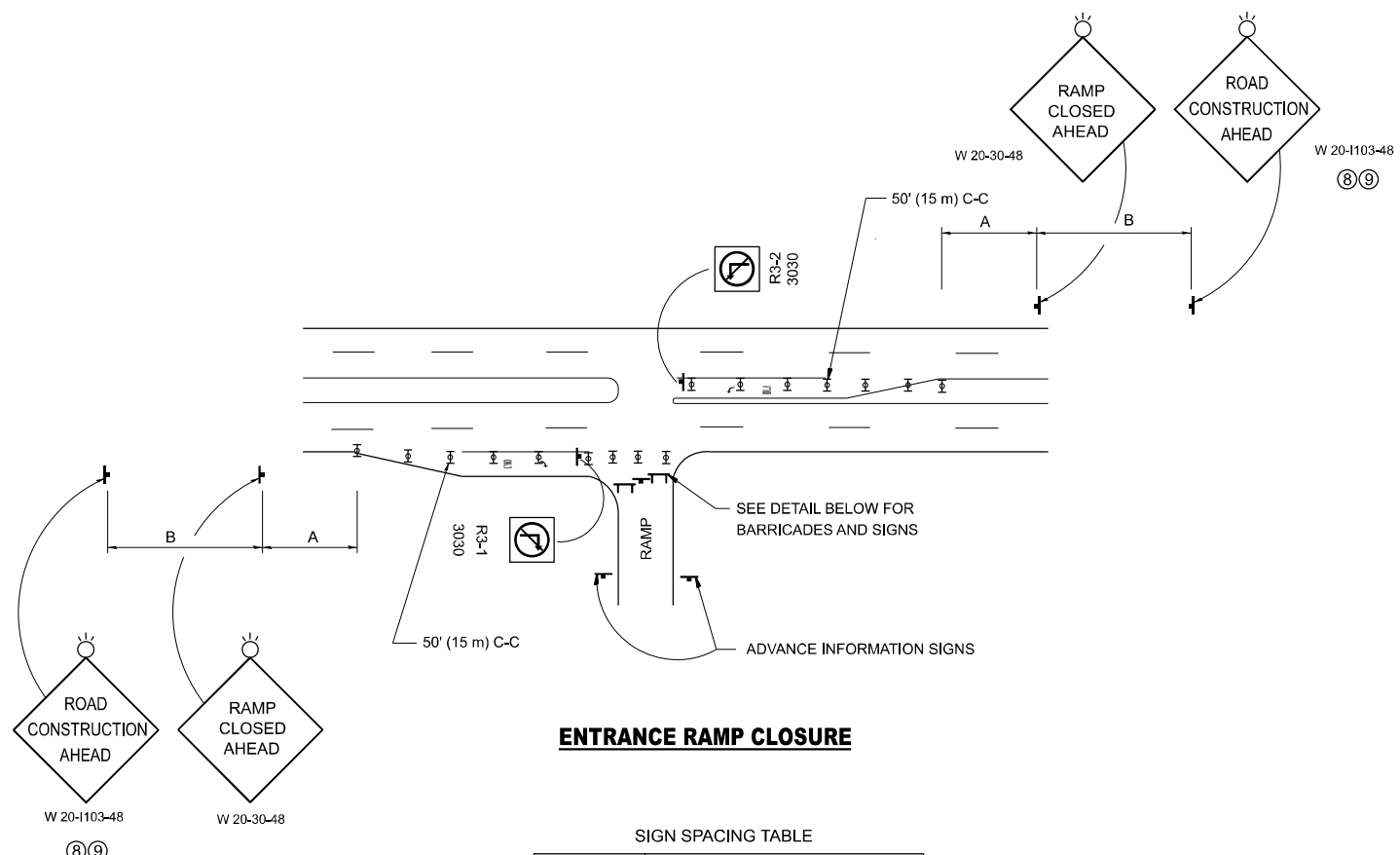
REVISED - J.A.F. 02-06
REVISED - S.P.B. 01-07
REVISED - S.P.B. 12-09
REVISED - M.D.06-13

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FREEWAY / EXPRESSWAY SIGNING FOR FLAGGING OPERATIONS
AT WORK ZONE OPENINGS ON FREEWAYS / EXPRESSWAYS

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-996-GRR	VARIOUS	32	13
TC-18			CONTRACT NO. 62X17	
ILLINOIS FED. AID PROJECT				

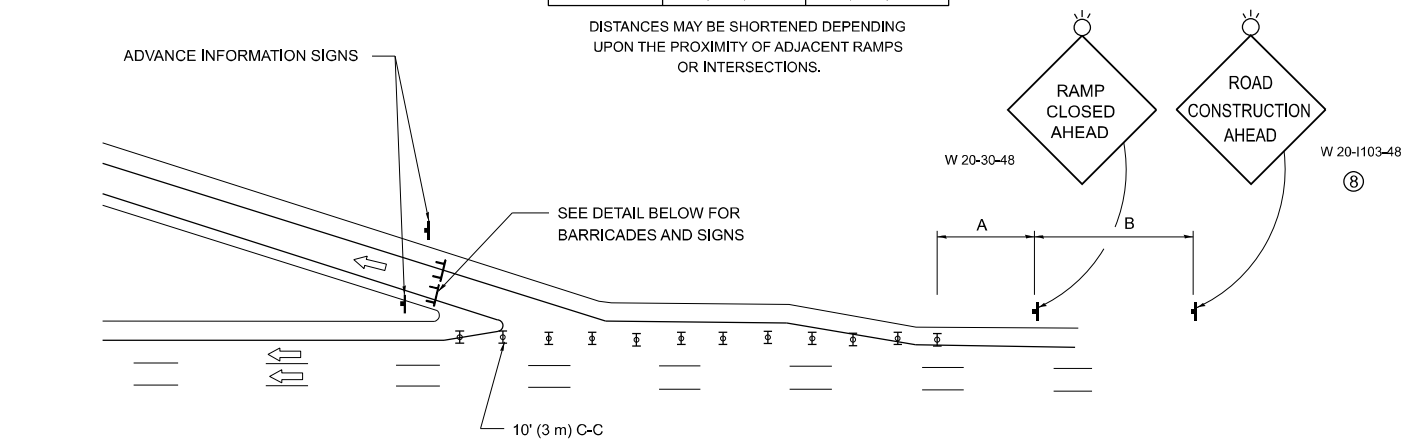


ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

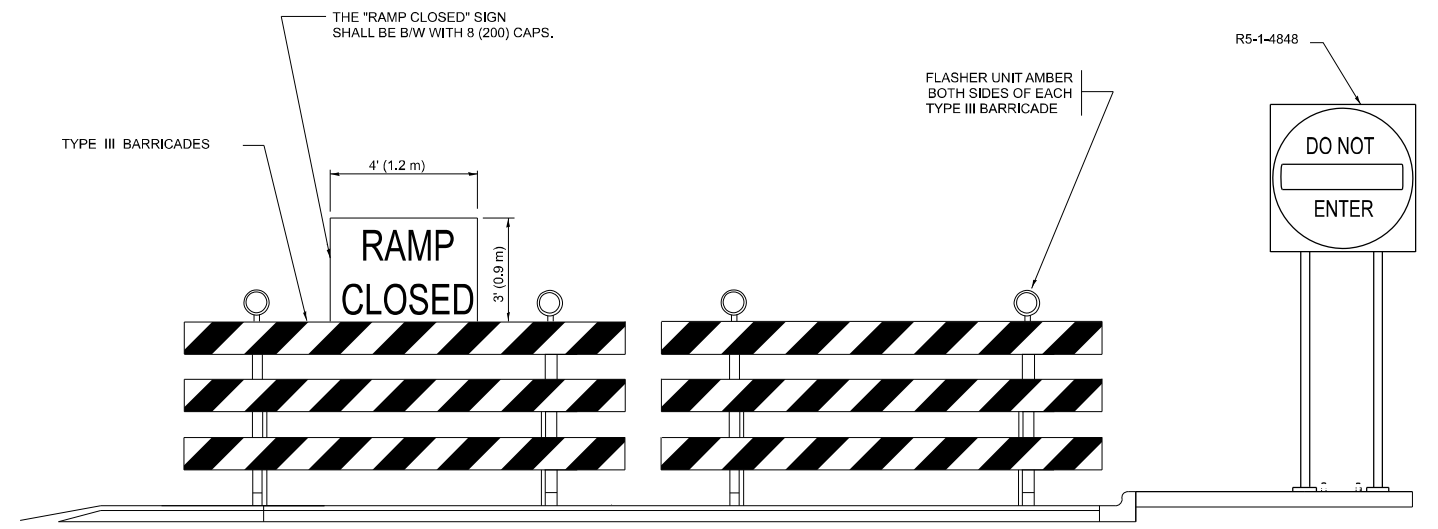
FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY ≤24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL 55 MPH	500' (150 m)	500' (150 m)
ARTERIAL 50-45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	200' (60 m)	200' (60 m)

DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



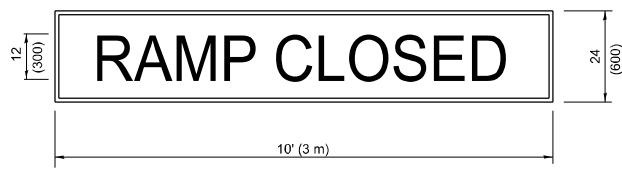
EXIT RAMP CLOSURE

- SYMBOLS**
- TYPE II BARRICADE OR DRUM
 - TYPE III BARRICADE WITH 2 FLASHING LIGHTS



DETAIL FOR REQUIRED BARRICADES & SIGNS

RAMP CLOSURE ADVANCE WARNING SIGN

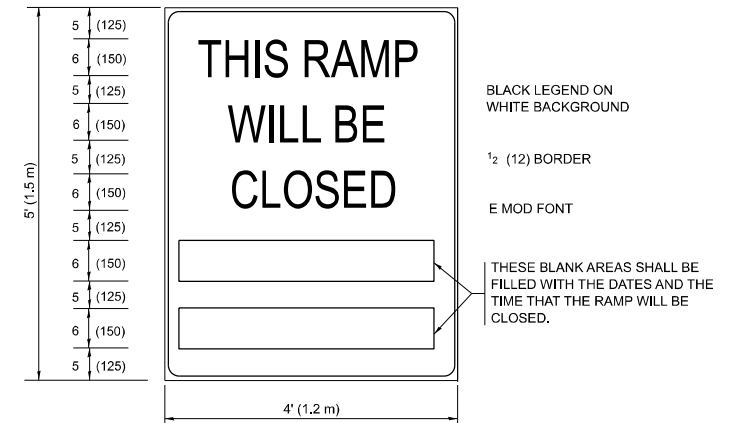


BLACK LEGEND ON ORANGE BACKGROUND MOUNTED DIAGONALLY
E MOD FONT
1 (25) BORDER

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

RAMP CLOSURE ADVANCE INFORMATION SIGN



BLACK LEGEND ON WHITE BACKGROUND
1/2 (12) BORDER
E MOD FONT

THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

GENERAL NOTES:

- CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- VERTICAL BARRICADES SHALL NOT BE USED FOR RAMP CLOSURES.
- A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEDED BY A W20-7 FLAGGER WARNING SIGN.
- 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.
- THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
- AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- 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
- 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.

MODEL: TC-8 (Sheet)
FILE NAME: c:\p\work\project\ledezma\m1015251\100225-shh-DistStatus.dgn

USER NAME = rodrigo.ledezma	DESIGNED - D.W.S.	REVISED - S.P.B._12-09
PLOT SCALE = 0.16666833' / in.	DRAWN - M.D._06-13	REVISED - M.D._01-18
PLOT DATE = 7/15/2024	CHECKED -	REVISED - D.S._05-24
	DATE - 02-83	

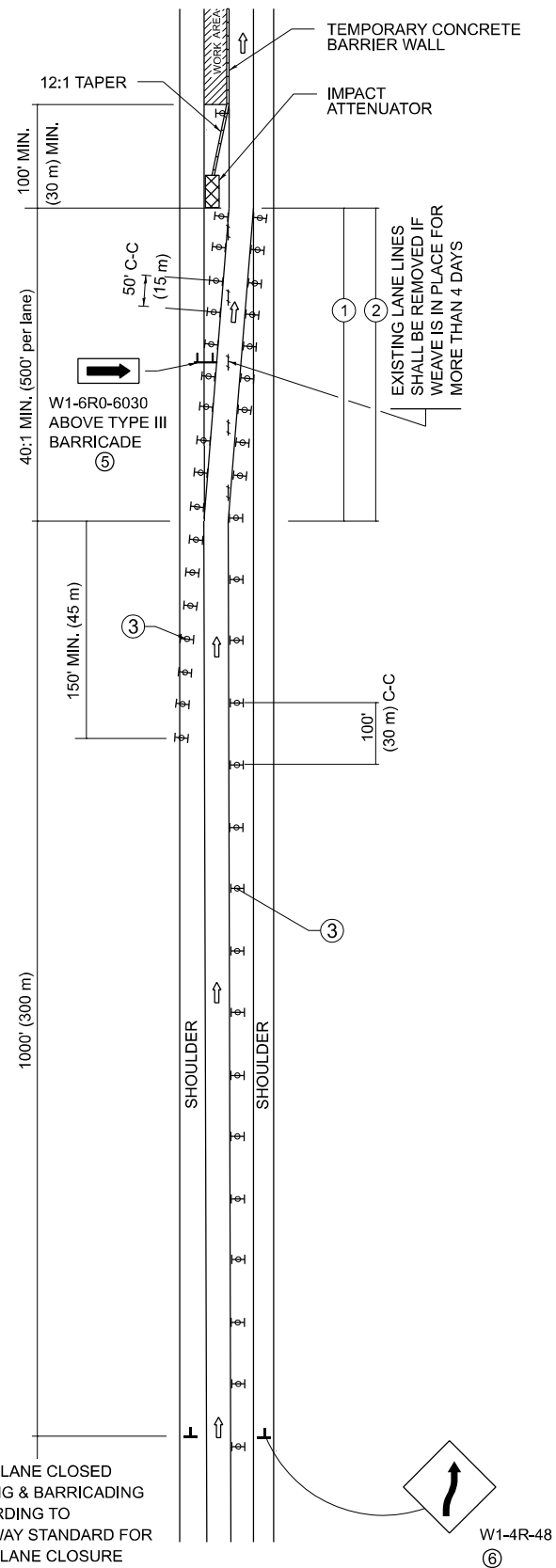
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ENTRANCE AND EXIT RAMP
CLOSURE DETAILS**

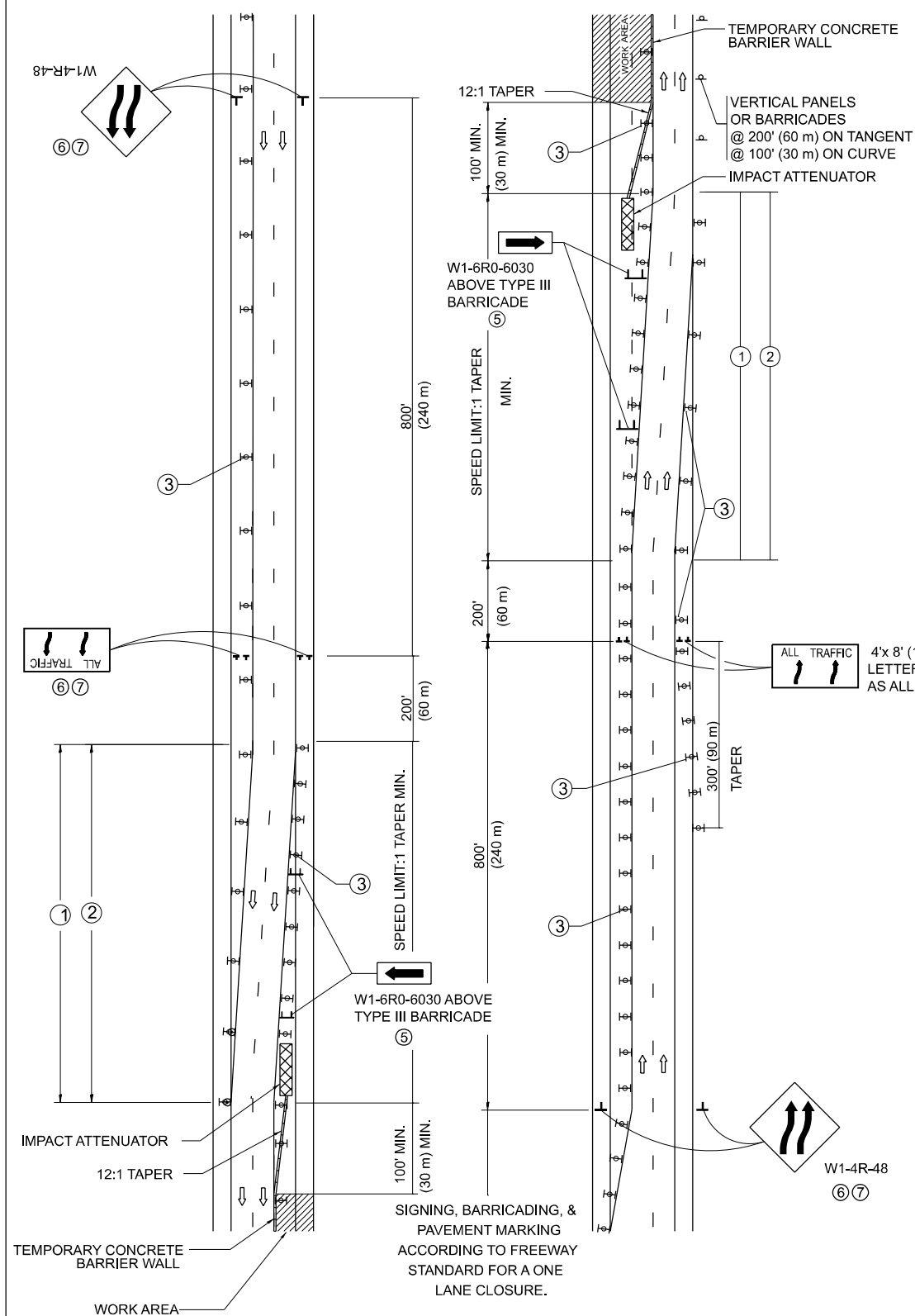
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-996-GRR	VARIOUS	32	14
TC-08			CONTRACT NO. 62X17	
ILLINOIS FED. AID PROJECT				

SINGLE LANE WEAVE



MULTI-LANE WEAVE



GENERAL NOTES:

- ① EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.
- ② CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.
- ③ PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ④ ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ⑤ TYPE III BARRICADES MAY BE OMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.
- ⑥ WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.
- ⑦ THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

SYMBOLS

- DIRECTION OF TRAFFIC
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATOR
- W1-4R-48
- W24-1-48

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

MODEL: TC-9 (Sheet)
FILE NAME: c:\p\work\project\ledezma\m1015251\100225-shh-Dist\Stds.dgn

USER NAME = rodrigo.ledezma	DESIGNED - D.W.S.	REVISED - J.A.F. 02-06
PLOT SCALE = 0.16666633' / in.	CHECKED -	REVISED - S.P.B. 01-07
PLOT DATE = 7/15/2024	DATE - 02-27	REVISED - S.P.B. 12-09
		REVISED - M.D. 06-13

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR
FREEWAY SINGLE & MULTI-LANE WEAVE

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-996-GRR	VARIOUS	32	15
TC-09		CONTRACT NO. 62X17		
ILLINOIS FED. AID PROJECT				