

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
**	2025-1083-GRR	ILLINOIS	32	1
CONTRACT NO. 62Y32			VARIOUS	

D-91-151-25



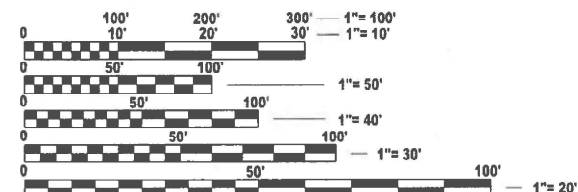
LOCATION OF SECTION INDICATED THUS: -

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED HIGHWAY PLANS

ROUTE: VARIOUS EXPRESSWAYS AND ARTERIALS
HIGHWAYS - DISTRICT ONE
SECTION 2025-1083-GRR
MCHD GUARDRAIL REPAIRS
VARIOUS COUNTIES

C-91-228-25



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.

J.U.L.I.E. JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811	C.U.A.N. CHICAGO UTILITY ALERT NETWORK 1-312-744-7000
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PROJECT ENGINEER: OSCAR OLIVEROS (847) 705-4548
PROJECT MANAGER: JACEK EJMONT (847) 705-4641

CONTRACT NO. 62Y32

SEE LOCATION MAPS
SHEETS 005 THRU 013

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED July 11th 20 25 IR
IR REGIONAL ENGINEER

August 15 20 25
Scot Etk
ENGINEER OF DESIGN AND ENVIRONMENT

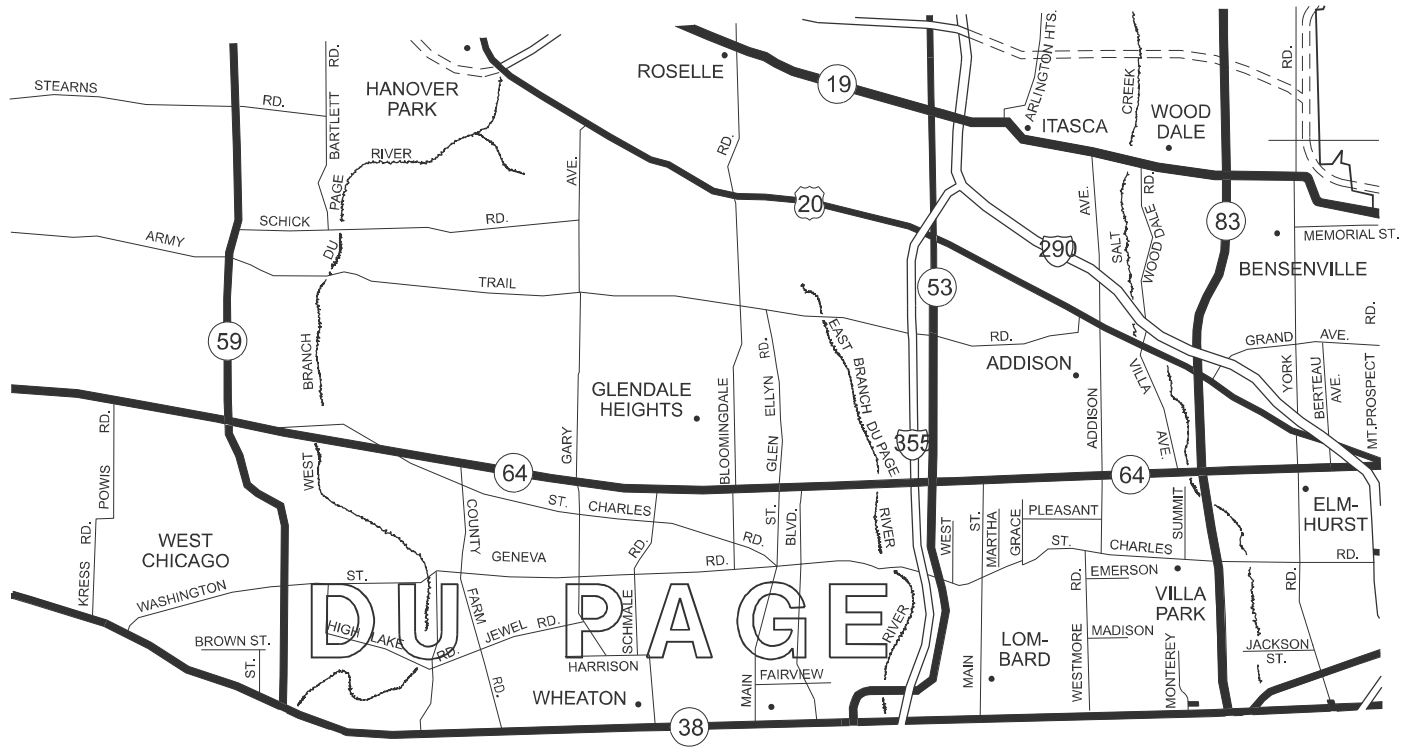
August 15 20 25
9/24/25
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

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INDEX OF SHEETS				LIST OF STATE STANDARDS				GENERAL NOTES					
1	COVERSHEET	630001 - 13	STEEL PLATE BEAM GUARDRAIL	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	INDEX OF SHEETS, STANDARDS, AND GENERAL NOTES	630101 - 11	STRONG POST GUARDRAIL ATTACHED TO CULVERT	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 - 4	SUMMARY OF QUANTITIES	630301 - 09	SHOULDER WIDENING FOR TYPE 1 GUARDRAIL TERMINALS	3.	REMOVAL OF DAMAGED MATERIALS WILL INCLUDE DISMANTLING, LOADING, HAULING AND DISPOSAL. THE WORK SITE WILL BE LEFT IN A SAFE AND ORDERLY CONDITION.								
5	NORTH DUPAGE COUYNTRY LOCATION MAP	631006 - 08	TRAFFIC BARRIER TERMINAL TYPE 1B	4.	NO MATERIAL SHOULD BE LEFT ON OR NEAR THE ROADWAY DURING NON-WORKING HOURS.								
6	NORTH KANE COUNTY LOCATION MAP	631011 - 10	TRAFFIC BARRIER TERMINAL TYPE 2	5.	ANY NECESSARY TRAFFIC CONTROL WILL BE PROVIDED BY THE CONTRACTOR; APPROPRIATE STANDARDS ARE HEREWITH ATTACHED.								
7	LAKE COUNTY COUNTY LOCATION MAP	631026 - 06	TRAFFIC BARRIER TERMINAL TYPE 5	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.								
8	MCHENRY COUNTY LOCATION MAP	631031 - 18	TRAFFIC BARRIFR TERMINAL TYPE 6	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.								
9	NORTH COOK COUNTY LOCATION MAP	631046 - 04	TRAFFIC BARRIER TERMINAL TYPE 10	8.	GUARDRAIL MARKERS SHALL NOT BE ATTACHED TO TERMINAL SECTIONS.								
10	SOUTH COOK COUNTY LOCATION MAP	701006 - 05	OFF-RD OPERATIONS 2L 2W 15' TO 24" FROM PAVEMENT EDGE	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.								
11	SOUTH KANE COUNTY LOCATION MAP	701011 - 04	OFF-RD MOVING OPERATIONS 2L 2W DAY ONLY	10.	REMOVAL OF EXISTING TERMINAL SECTIONS INCLUDED IN COST OF NEW TERMINAL SECTIONS								
12	SOUTH DU PAGE COUNTY LOCATION MAP	701106 - 02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' AWAY	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.								
13	WILL COUNTY LOCATION MAP	701201 - 05	LANE CLOSURE, 2L 2W, DAY ONLY 45MPH OR MORE	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.								
14	DETAIL OF THRIE-BEAM GUARDRAIL WITH MODIFIED OFFSET BLOCK	701301 - 04	LANE CLOSURE, 2L 2W, SHORT TIME OPERATIONS							* MOVING LANE CLOSURES NOT PERMITTED ON EXPRESSWAYS			
15	STEEL PLATE BEAM GUARDRAIL STEEL BLOCK-OUT DETAIL	701311 - 03	LANE CLOSURE, 2L 2W, MOVING OPERATIONS DAY ONLY										
16	CURB REMOVAL (PARTIAL) AND SHOULDER WIDENING FOR TRAFFIC BARRIER TERMINAL ,TYPE 1 SPECIAL	701336 - 07	LANE CLOSURE, 2L 2W, WORK AREAS IN SERIES 45MPH OR MORE										
17	STEEL BRIDGE RAIL DETAIL	701400 - 12	APPROACH TO LANE CLOSURE FREEWAY EXPRESSWAY										
18	TYPICAL DETAIL TO ANCHOR STEEL PLATE BEAM GUARD RAIL ON CONCRETE (BM-02)	701401 - 13	LANE CLOSURE FREEWAY EXPRESSWAY										
19	TYPICAL DETAIL FOR GUARDRAIL ANCHOR BLOCK REPAIR (BM-03)	701411 - 09	LANE CLOSURE MULTILANE ENTRANCE OR EXIT RAMP 45MPH OR MORE										
20	TYPICAL DETAILS FOR STEEL PLATE BEAM GUARDRAIL ANCHORAGE REPAIR (BM-04)	* 701421 - 08	LANE CLOSURE MULTILANE DAY OPERATIONS ONLY 45-55MPH										
21	DETAIL FOR CENTER LONGITUDINAL GUARDRAIL JOINT (BM-05)	701426 - 09	LANE CLOSURE MULTILANE INTERMITTENT OR MOVING OPERATIONS 45MPH OR MORE										
22	DETAIL OF STEEL PLATE BEAM GUARDRAIL SPECIAL (BM-06)	701427 - 05	LANE CLOSURE MULTILANE INTERMITTENT OR MOVING OPERATIONS 40MPH OR LESS										
23	DETAIL OF GUARDRAIL SUPPORT AND END ANCHORAGE (BM-07)	701428 - 01	TRAFFIC CONTROL SETUP REMOVAL FREEWAY EXPRESSWAY										
24 - 26	T6 TERMINAL FOR USE WITH 21" HIGH SPBGR (BM 22)	701501 - 06	URBAN LANE CLOSURE, 2L 2W, UNDIVIDED										
27	ENTRANCE AND EXIT RAMP CLOSURE DETAILS (TC-08)	701502 - 09	URBAN LANE CLOSURE, 2L 2W WITH BIDIRECTIONAL LEFT TURN LANE										
28	TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE AND MULTI-LANE WEAVE TC-09)	701601 - 09	URBAN LANE CLOSURE MULTILANE, 1W 2W WITH NONTRAVERSABLE MEDIAN										
29	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS (TC-10)	701606 - 10	URBAN SINGLE LANE CLOSURE MULTILANE, 2W WITH MOUNTABLE MEDIAN										
30	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TC-14)	701701 - 10	URBAN LANE CLOSURE MULTILANE INTERSECTION										
31	TRAFFIC CONTROL DETAIL FOR SHOULDER CLOSURE AND PARTIAL RAMP CLOSURES (TC-17)	701801 - 06	SIDEWALK, CORNER OR CROSSWALK CLOSURE										
32	SIGNING FOR FLAGGING OPERATIONS AT WORK ZONEOPENINGS (TC-18)	701901 - 10	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										

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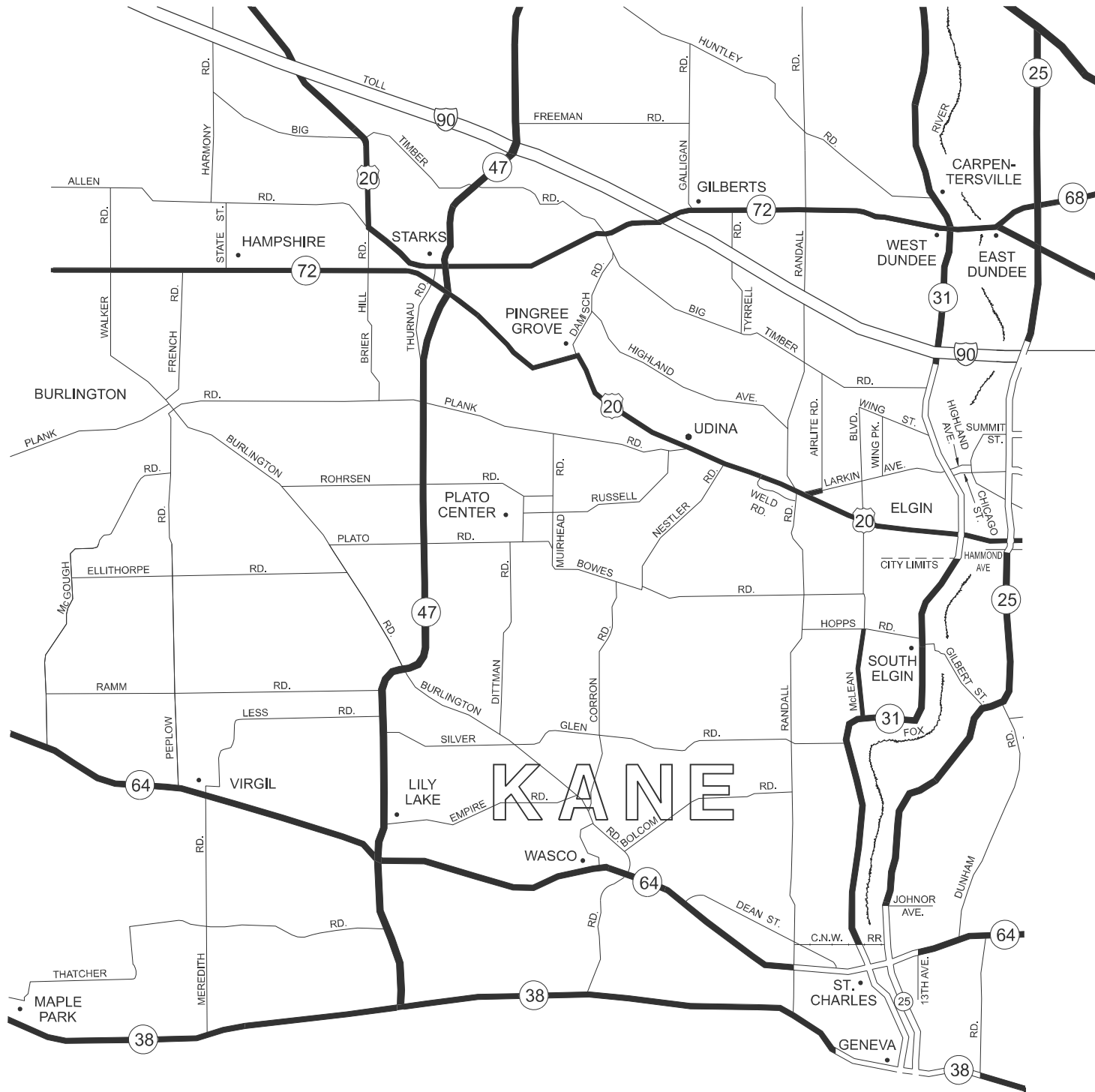
DISTRICT NO. 1

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

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		DRAWN -	REVISED -						**	2025-1083-GRR	*	32	5
		CHECKED -	REVISED -						CONTRACT NO. 62Y32				
	PLOT DATE = 7/11/2025	DATE -	REVISED -		ILLINOIS FED. AID PROJECT								
					SCALE:	SHEET OF 9 SHEETS	STA.	TO STA.					

**VARIOUS



DISTRICT NO. 1

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

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	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 7/11/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

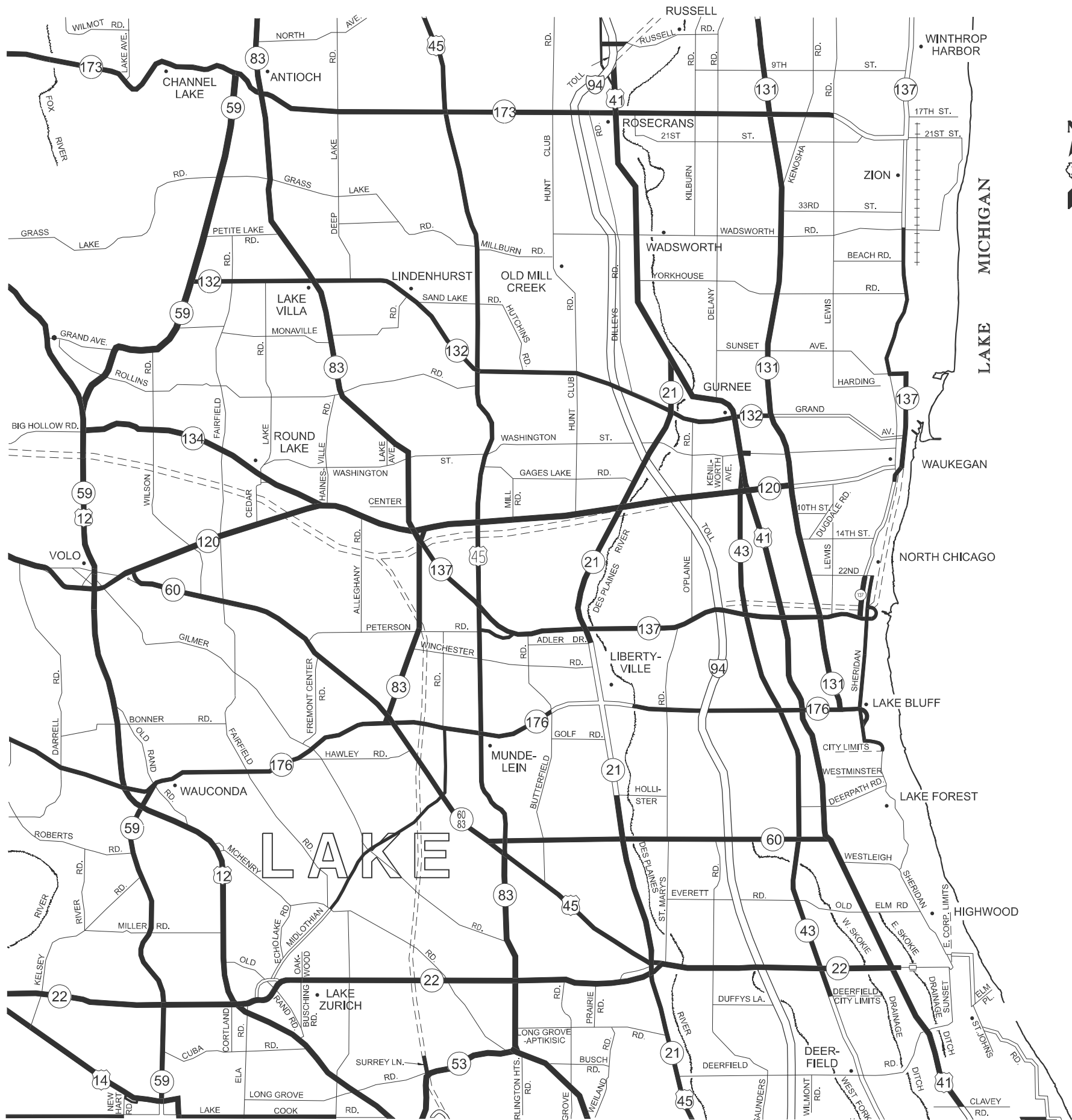
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F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
**	2025-1083-GRR	*	32	6
CONTRACT NO. 62Y32				

**VARIOUS

**VARIOUS

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DISTRICT NO. 1

- STATE HIGHWAYS & EXPRESSWAYS
WITHIN STATE JURISDICTION.
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

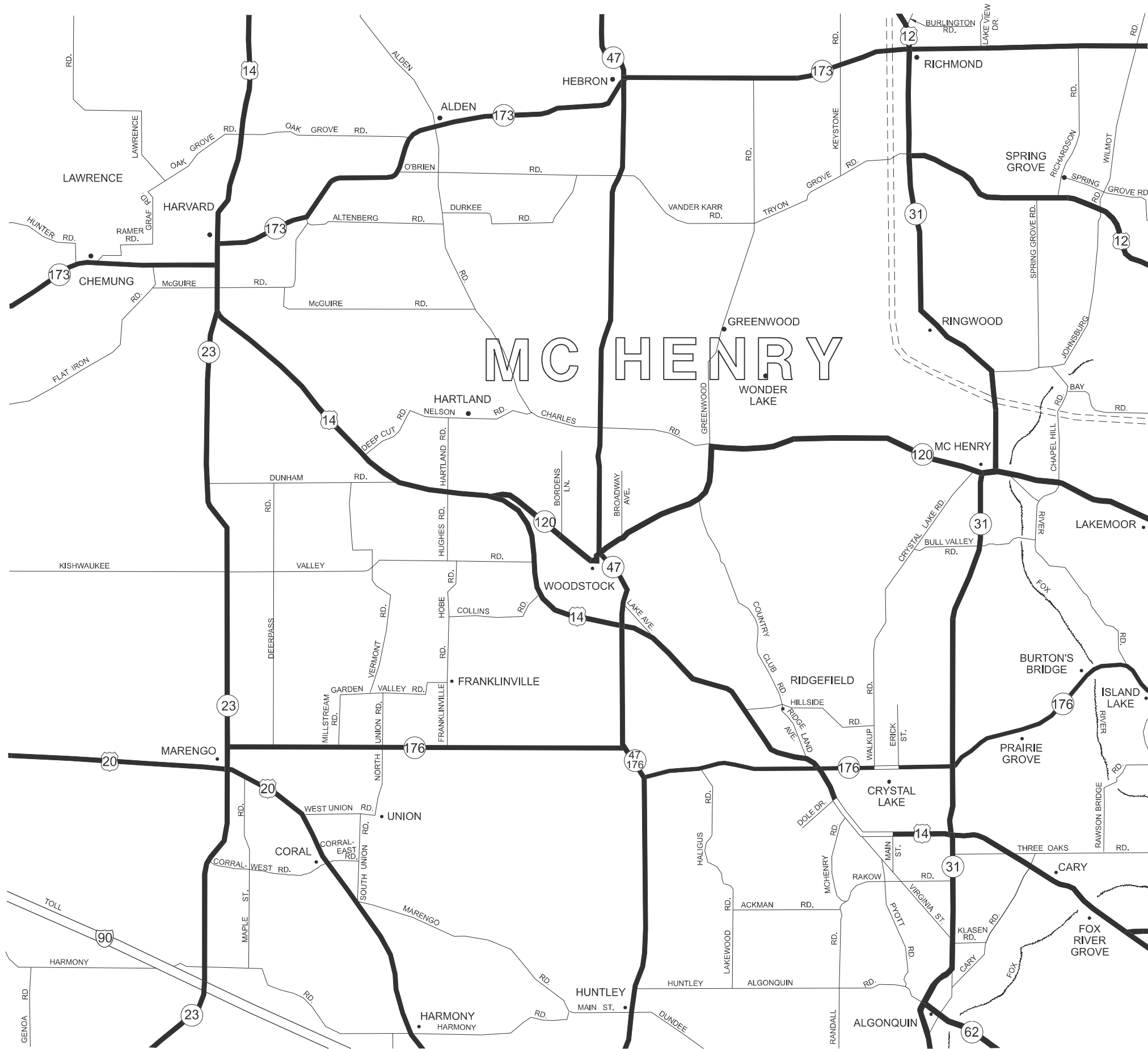
GUARDRAIL REPAIR LOCATION MAP
LAKE COUNTY

SCALE: SHEET OF 9 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
**	2025-1083-GRR	*	32	7
CONTRACT NO. 62Y32				
ILLINOIS		FED. AID PROJECT		

**VARIOUS

*VARIOUS



DISTRICT NO. 1

- STATE HIGHWAYS & EXPRESSWAYS
WITHIN STATE JURIDICTION.
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CITY MAINTENANCE AGREEMENTS
UNDER STATE JURIDICTION**
- FUTURE HIGHWAYS**
- VARIOUS AGENCIES HIGHWAYS**

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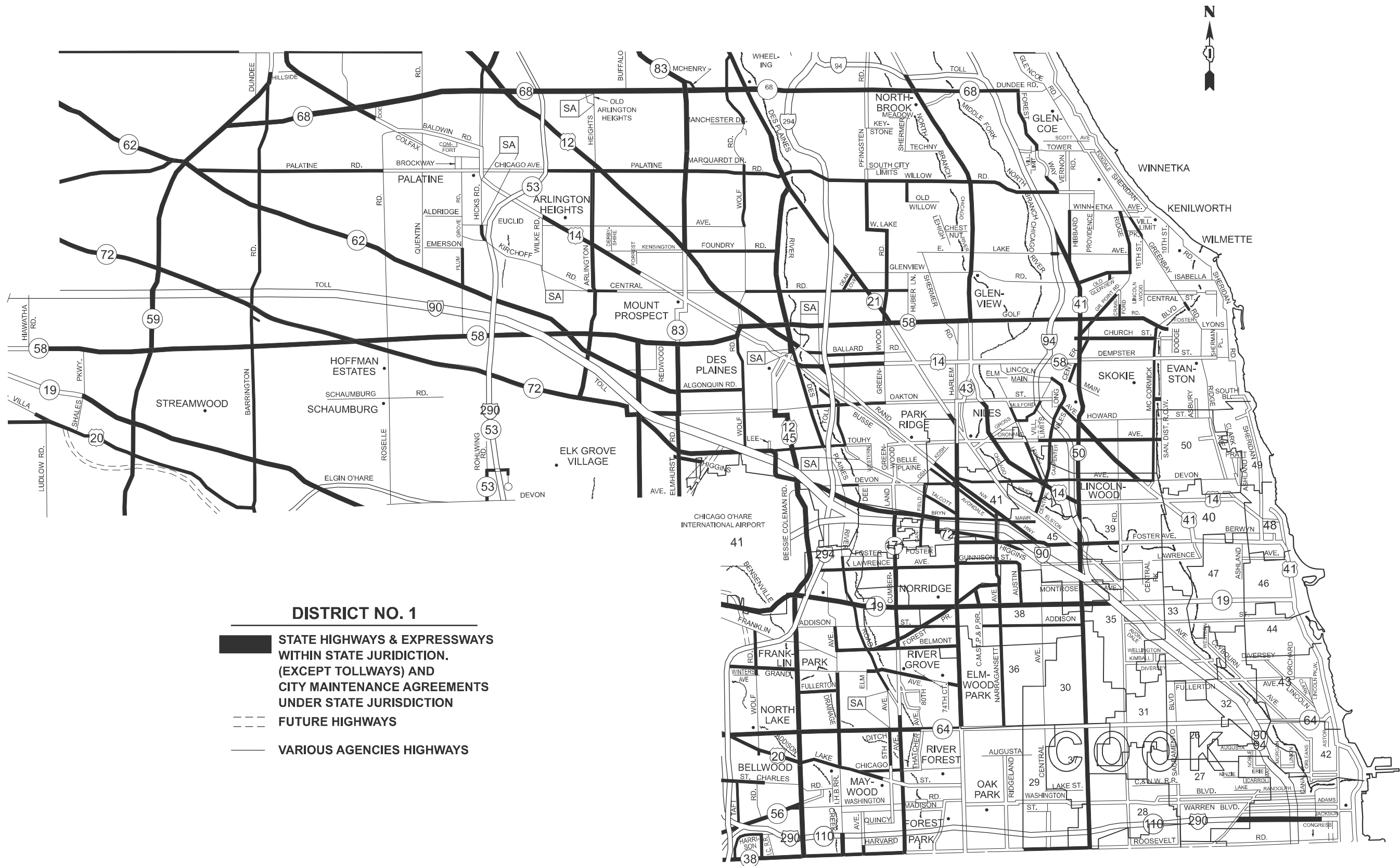
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GUARDRAIL REPAIR LOCATION MAP MCHENRY COUNTY			
SCALE:	SHEET	OF 9 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
**	2025-1083-GRR	*	32	8
CONTRACT NO. 62Y32				
ILLINOIS		FED. AID PROJECT		VARIOUS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

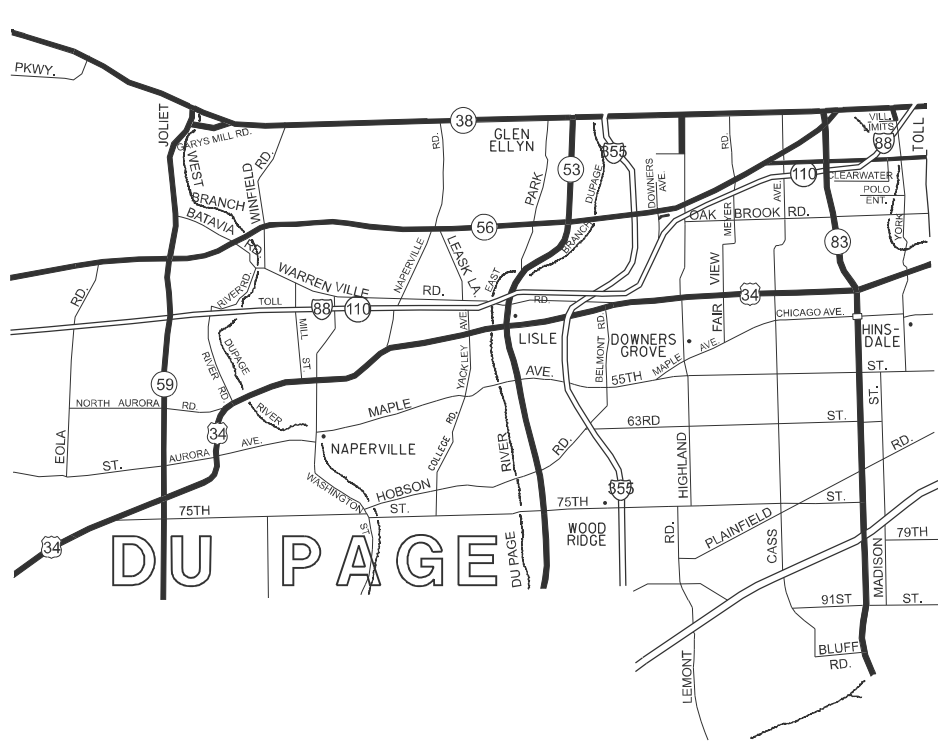
GUARDRAIL REPAIR LOCATION MAP
NORTH COOK INCLUDING IL 38

SCALE: SHEET OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
**	2025-1083-GRR	*	32	9
CONTRACT NO. 62Y32				
ILLINOIS		FED. AID PROJECT		

**VARIOUS

*VARIOUS



DISTRICT NO. 1

- STATE HIGHWAYS & EXPRESSWAYS
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- FUTURE HIGHWAYS
- VARIOUS AGENCIES HIGHWAYS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

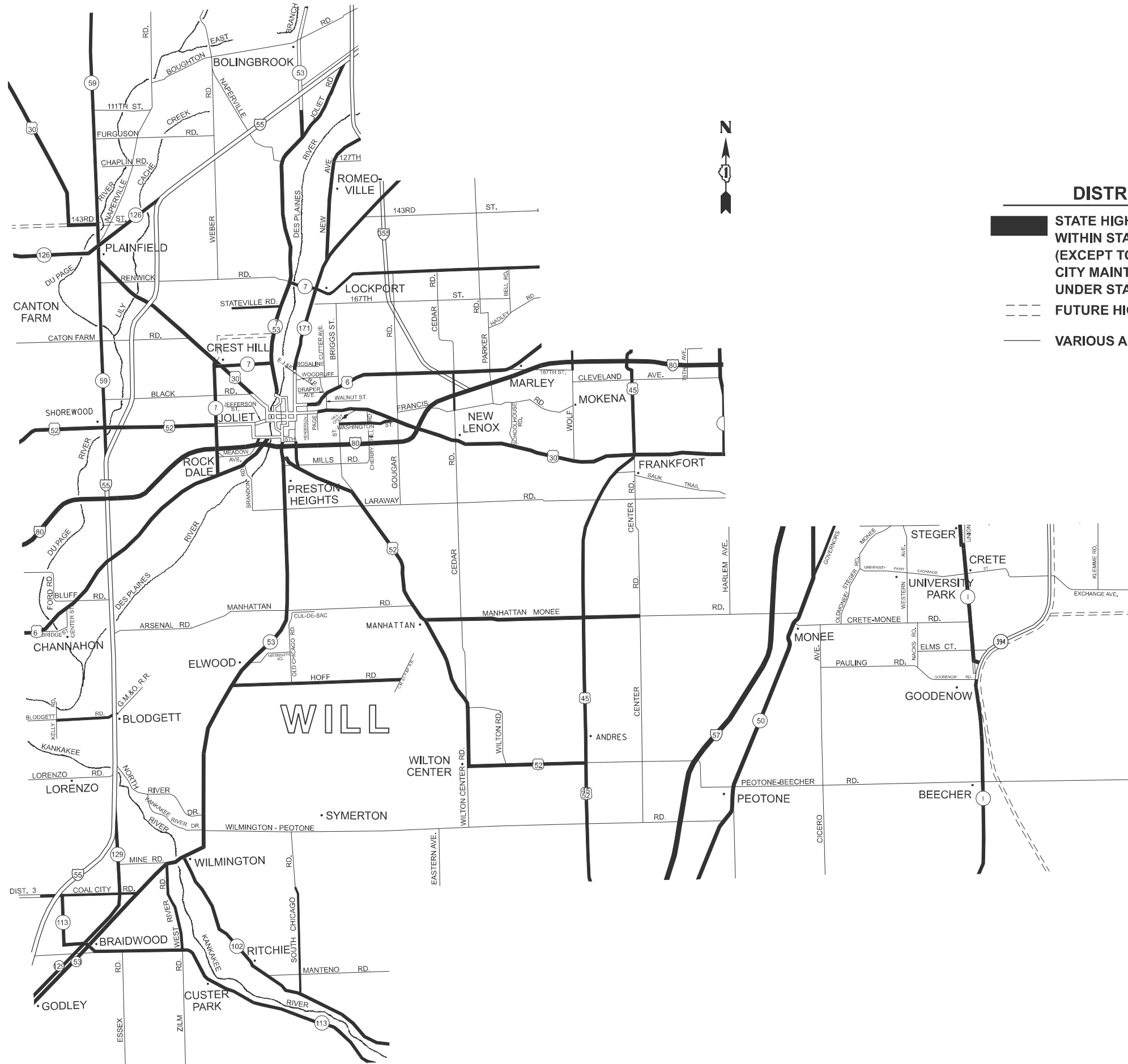
GUARDRAIL REPAIR LOCATION MAP
SOUTH DUPAGE INCLUDING IL 38

SCALE: SHEET OF 9 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
**	2025-1083-GRR	*	32	12
		CONTRACT NO. 62Y32		
		ILLINOIS	FED. AID PROJECT	

**VARIOUS

*VARIOUS



DISTRICT NO. 1

- STATE HIGHWAYS & EXPRESSWAYS
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- FUTURE HIGHWAYS**
- VARIOUS AGENCIES HIGHWAYS**

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PLOT DATE = 7/11/2025	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GUARDRAIL REPAIR LOCATION MAP
WILL COUNTY**

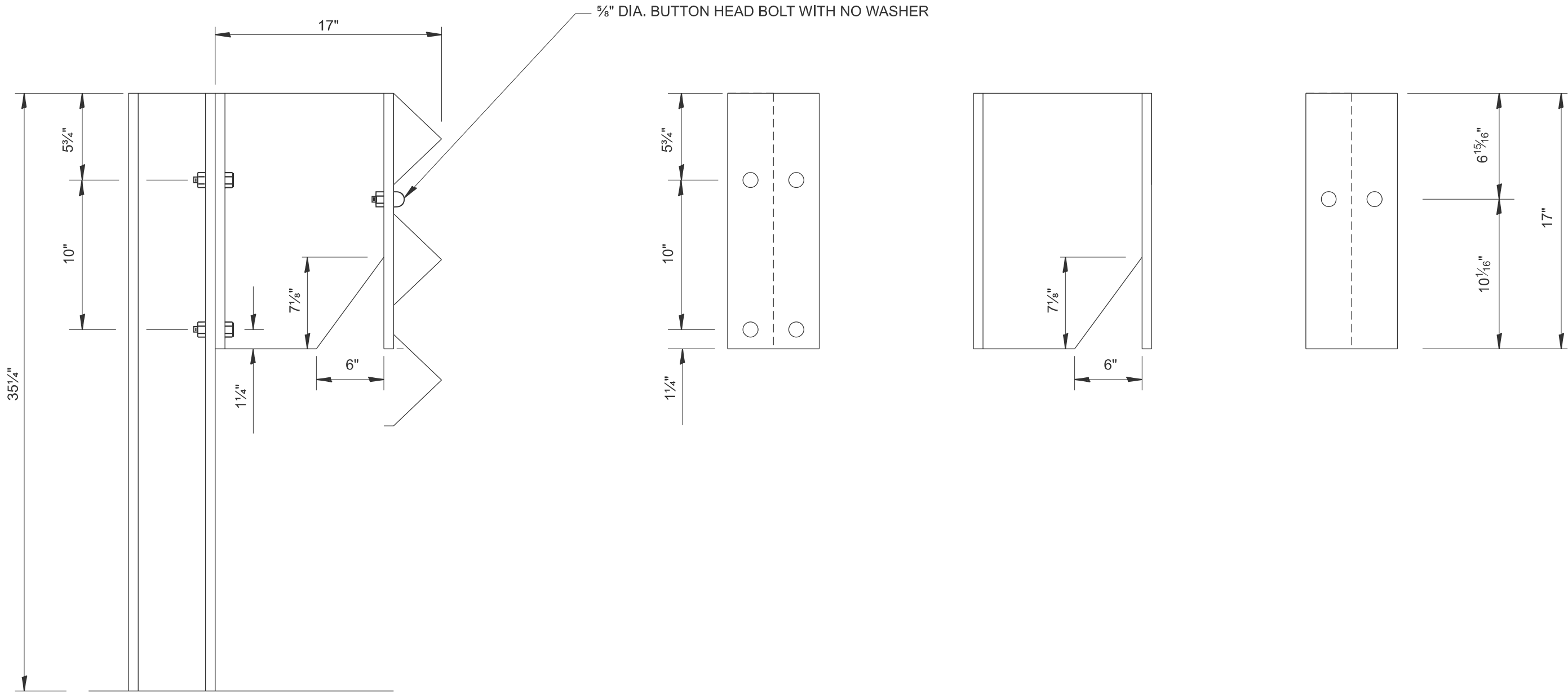
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F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62Y32				
ILLINOIS FED. AID PROJECT				

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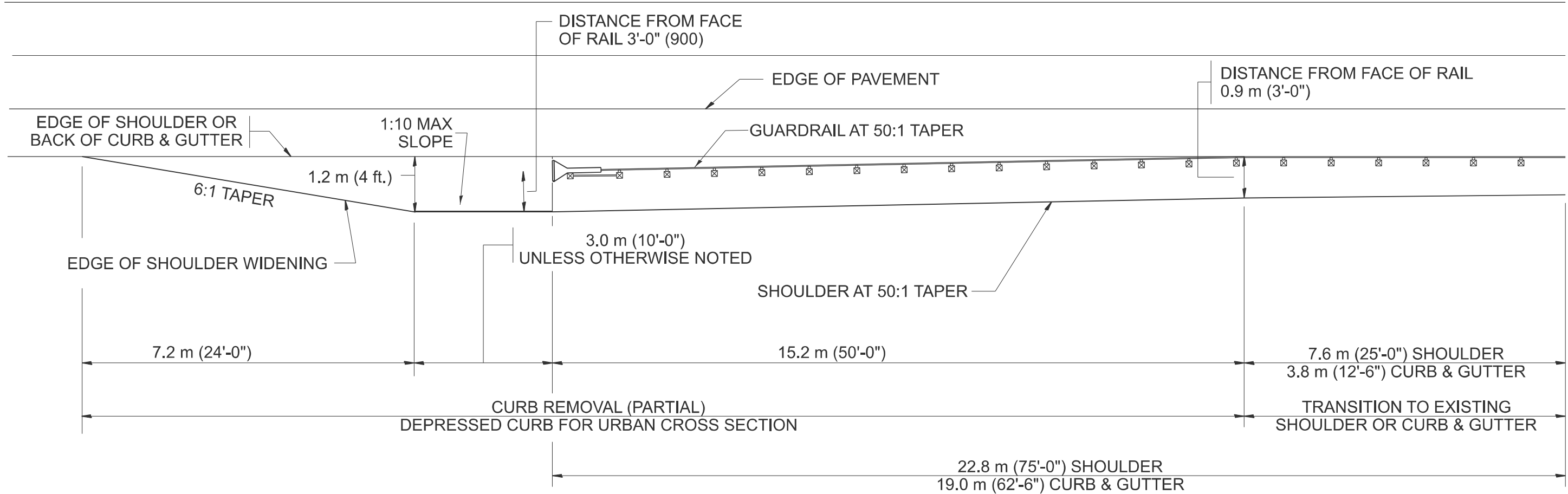
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	PLOT DATE = 7/7/2025	DATE -	REVISED -							ILLINOIS FED. AID PROJECT				
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NOTES: THE CONTRACTOR SHALL VERIFY THE TYPE/HEIGHT OF GUARDRAIL IN-PLACE BEFORE ORDERING THE NEW TERMINAL SECTION. COST INCLUDED WITH THE COST OF THE TERMINAL. THE TERMINAL SECTION HEIGHT TO BE PLACED MUST MATCH THE HEIGHT OF THE IN-PLACE GUARDRAIL.

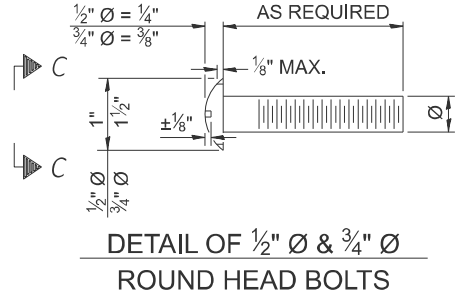
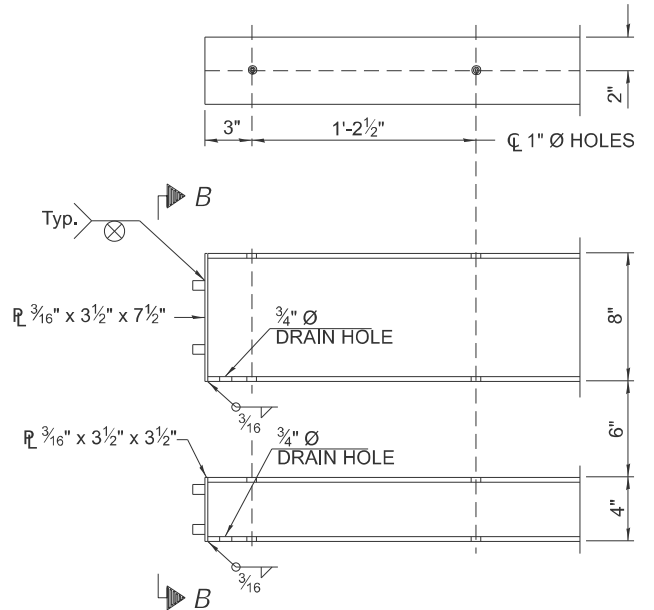
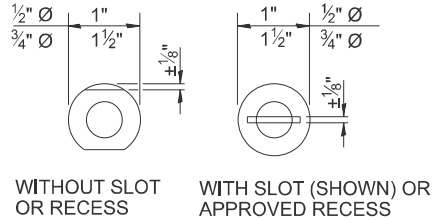
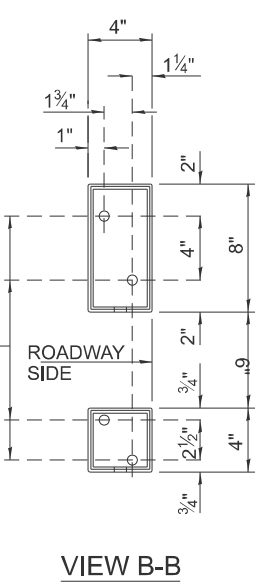
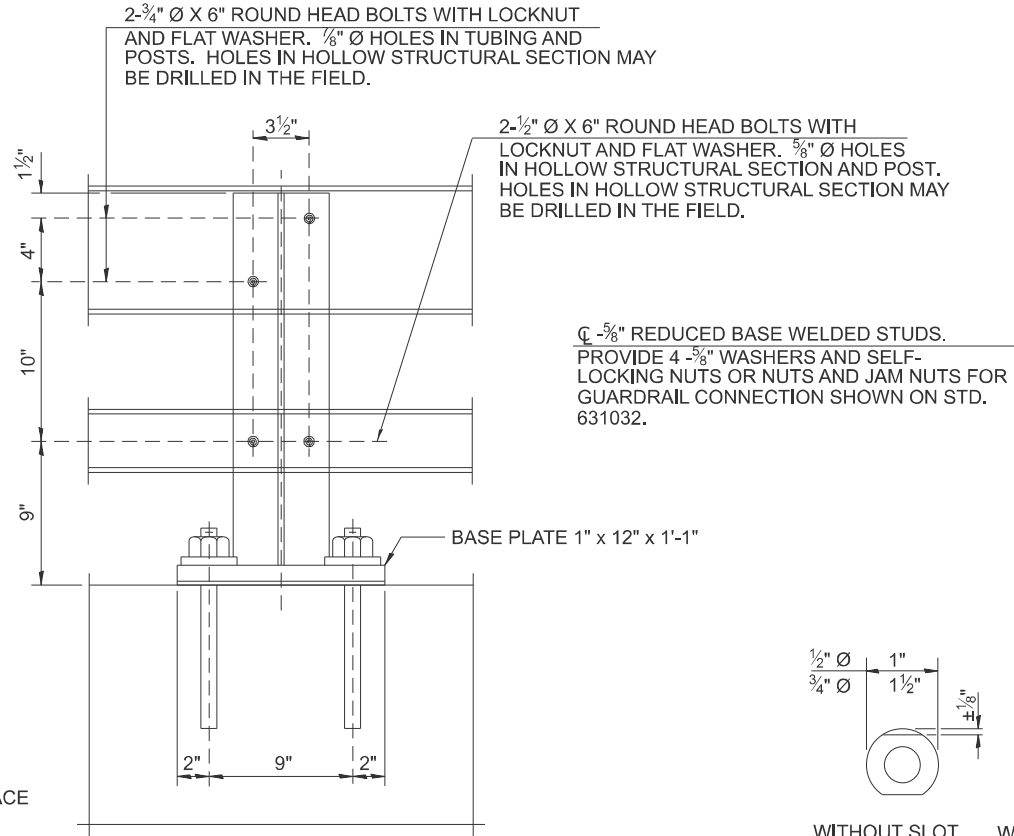
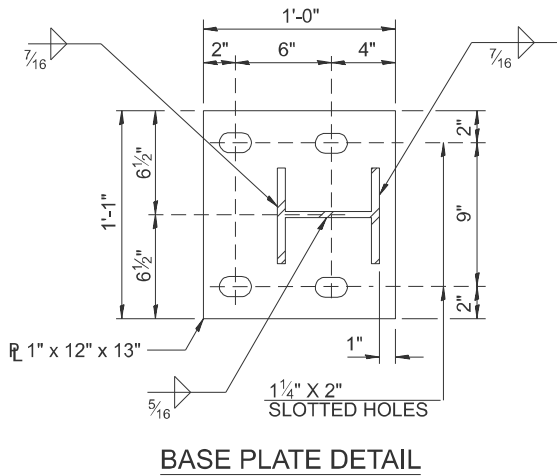
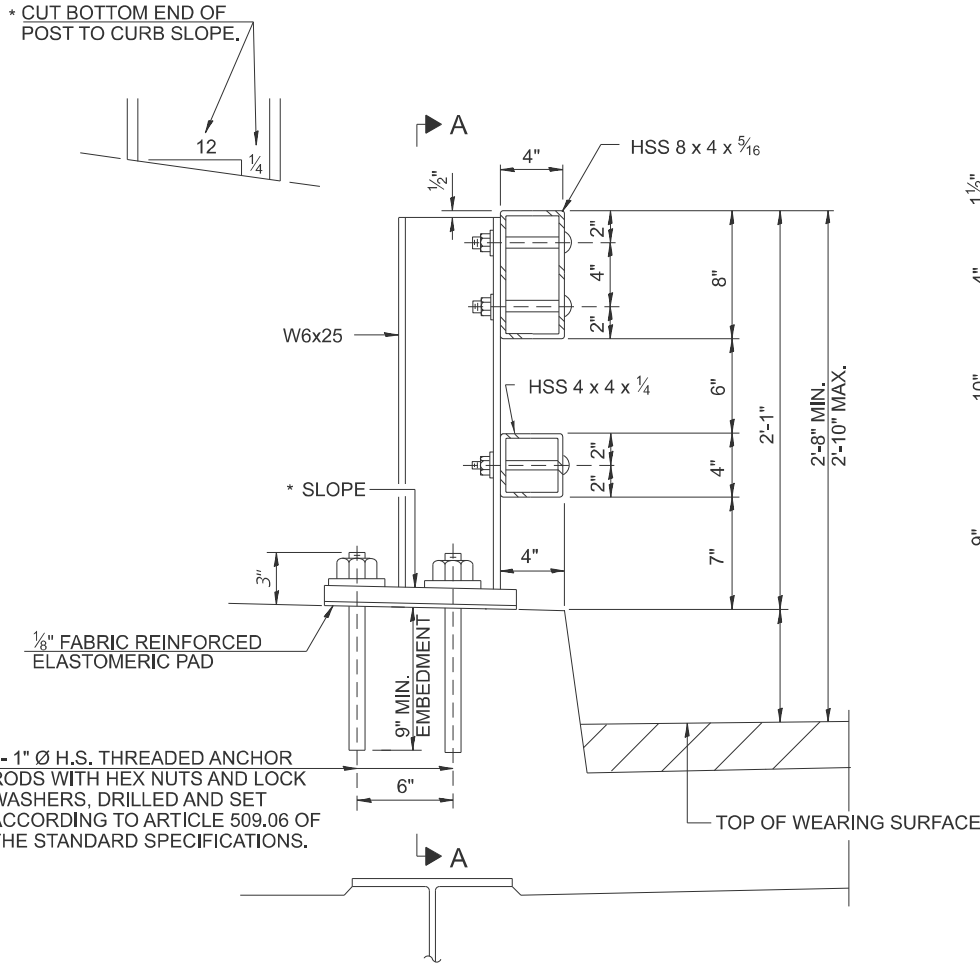
SHOULDER WIDENING SHALL BE IN ACCORDANCE WITH STATE STANDARD 630301

	USER NAME = jacob.ejmont	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STEEL PLATE BEAM GUARDRAIL STEEL BLOCK-OUT DETAIL			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					**	2025-1083-GRR	*	32	15
	PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -					CONTRACT NO. 62Y32				
	PLOT DATE = 7/11/2025	DATE -	REVISED -		SCALE:	SHEET	OF 4 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

**VARIOUS

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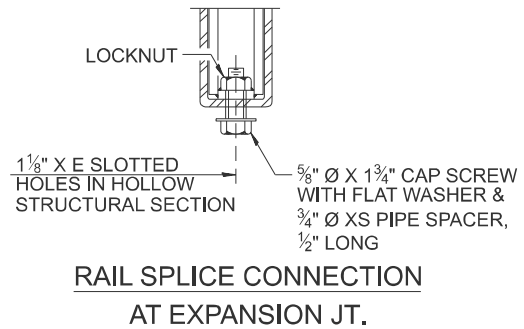
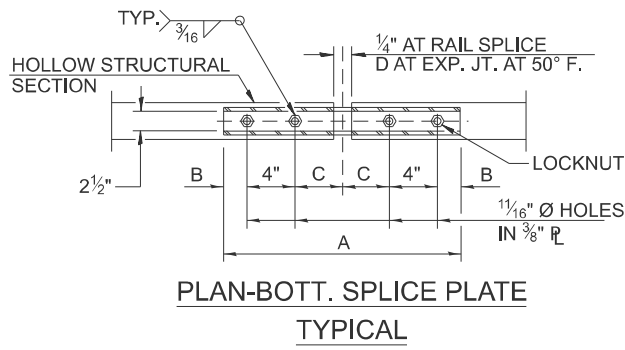
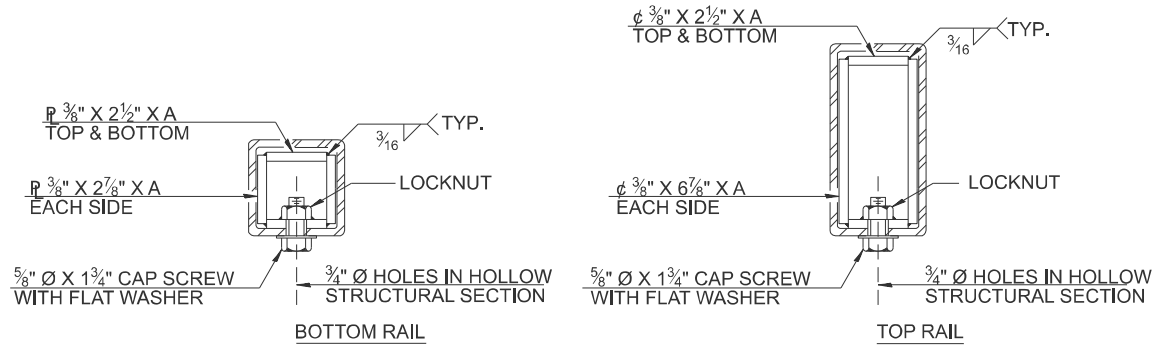
NOTES:

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 $\frac{1}{8}$ " AND TWO $\frac{1}{16}$ " 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.



SPLICE DIMENSIONS

T	D	A	B	C	E
$\leq 4"$	2 1/2"	1'-8"	2"	4"	2 1/2"
$> 4" \leq 6 1/2"$	3 3/4"	2'-0"	2 1/2"	5 1/2"	3 1/2"
$> 6 1/2" \leq 9"$	5"	2'-4"	3 1/2"	6 1/2"	9"
$> 9" \leq 13"$	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	

R-31

2-17-2017

(6'-3" Maximum Post Spacing)

USER NAME = jacek.ejmont	DESIGNED -	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -
PLOT DATE = 7/11/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

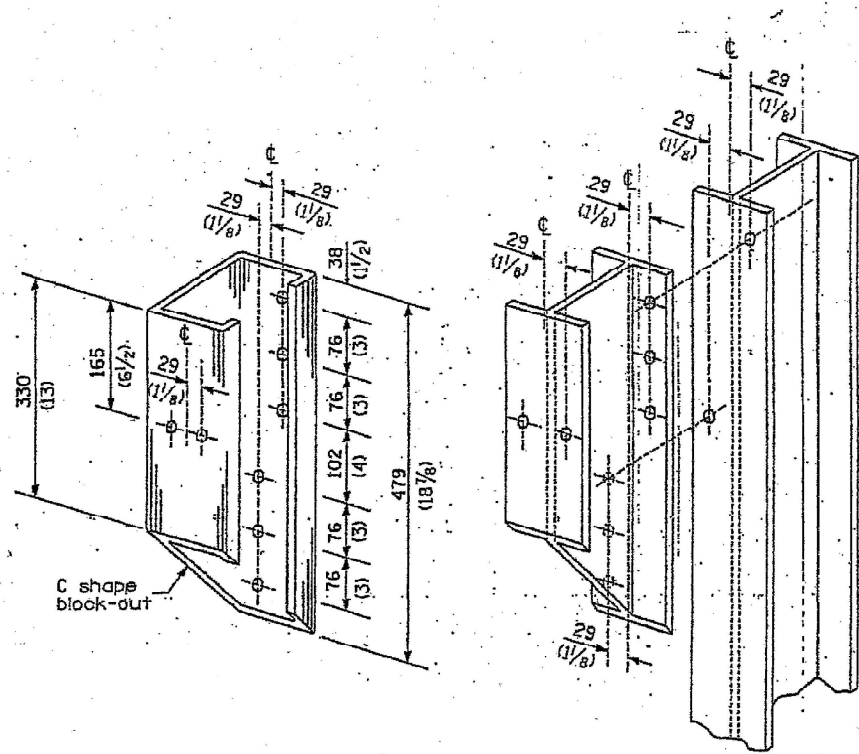
SCALE: SHEET OF 4 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
**	2025-1083-GRR	*	32	16
CONTRACT NO. 62Y32				
ILLINOIS FED. AID PROJECT				

**VARIOUS

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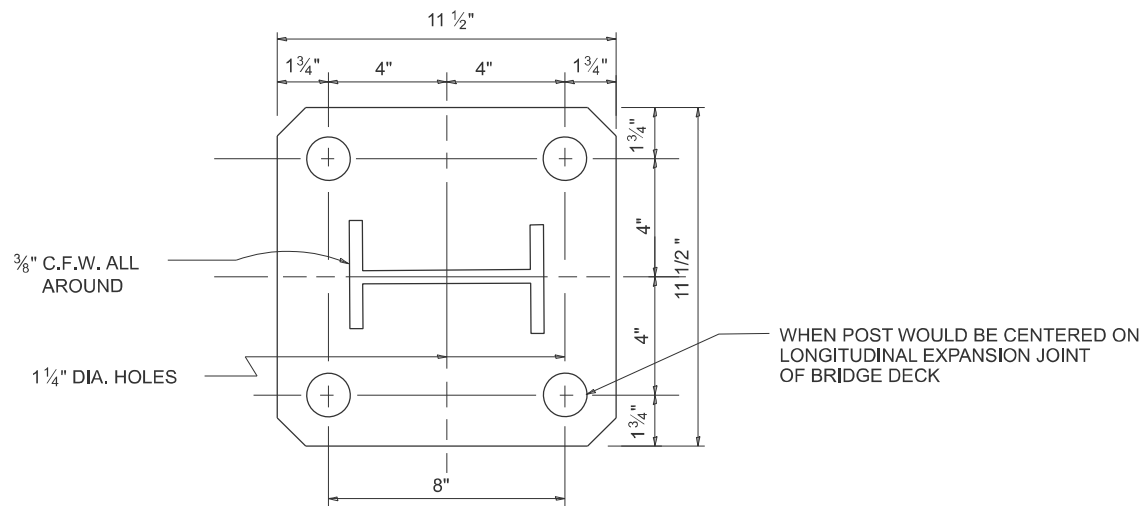
STEEL BLOCK-OUT AND
STEEL POST DETAILS

	USER NAME = jack.ejmont	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STEEL RAIL BRIDGE DETAIL			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					**	2025-1083-GRR	*	32	17
	PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -					CONTRACT NO. 62Y32				
	PLOT DATE = 7/11/2025	DATE -	REVISED -		SCALE:	SHEET	OF 4 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

**VARIOUS

*VARIOUS

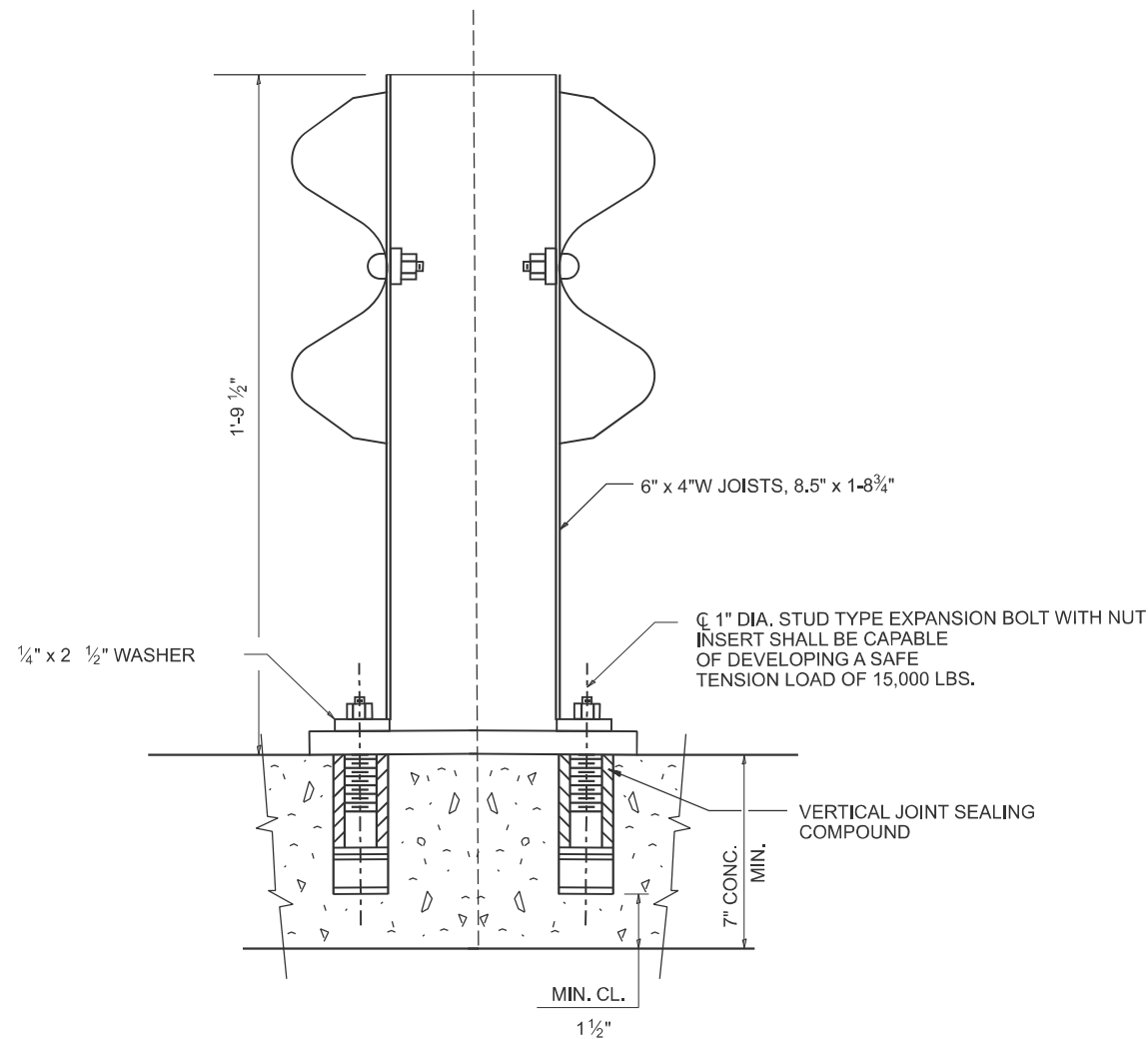
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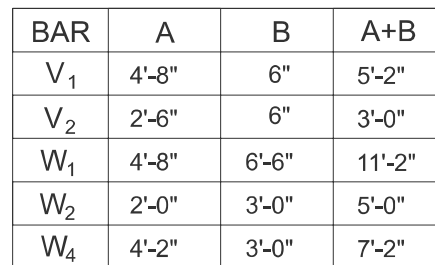
RAIL POST BASE ϕ
 ϕ 11 1/2" x 1 1/4" x 11 1/2"

NOTE:

- 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 11#8" AND 21#16" GALVANIZED SHIMS FOR 25% OF THE POSTS.



	USER NAME = jacek.ejmont	DESIGNED -	REVISED - R. RITCHIE 05-02-00	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ANCHOR DETAIL FOR STEEL PLATE BEAM GUARDRAIL ON CONCRETE			F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - RFL	REVISED -					**	2025-1083-GRR	*	32	18
	PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -					BM-02		CONTRACT NO. 62Y32		
	PLOT DATE = 7/11/2025	DATE - 10-31-88	REVISED -					SCALE: NONE		SHEET 1 OF 1 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT



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

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"

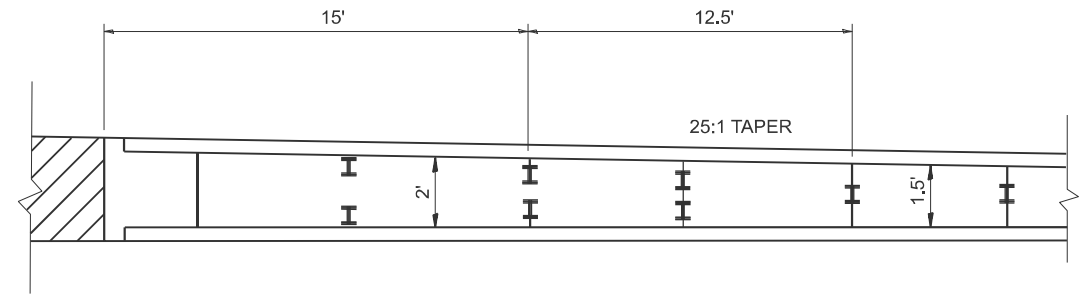
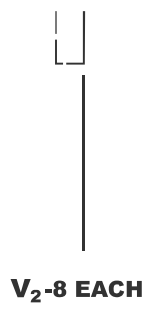
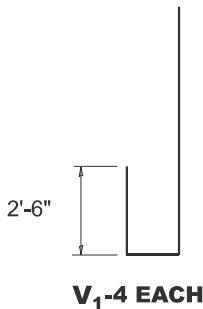
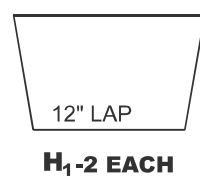
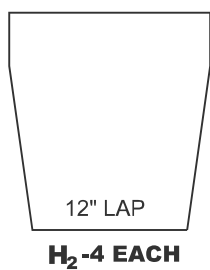
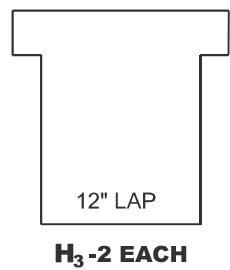
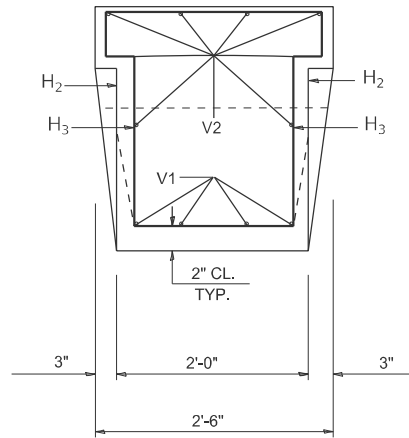
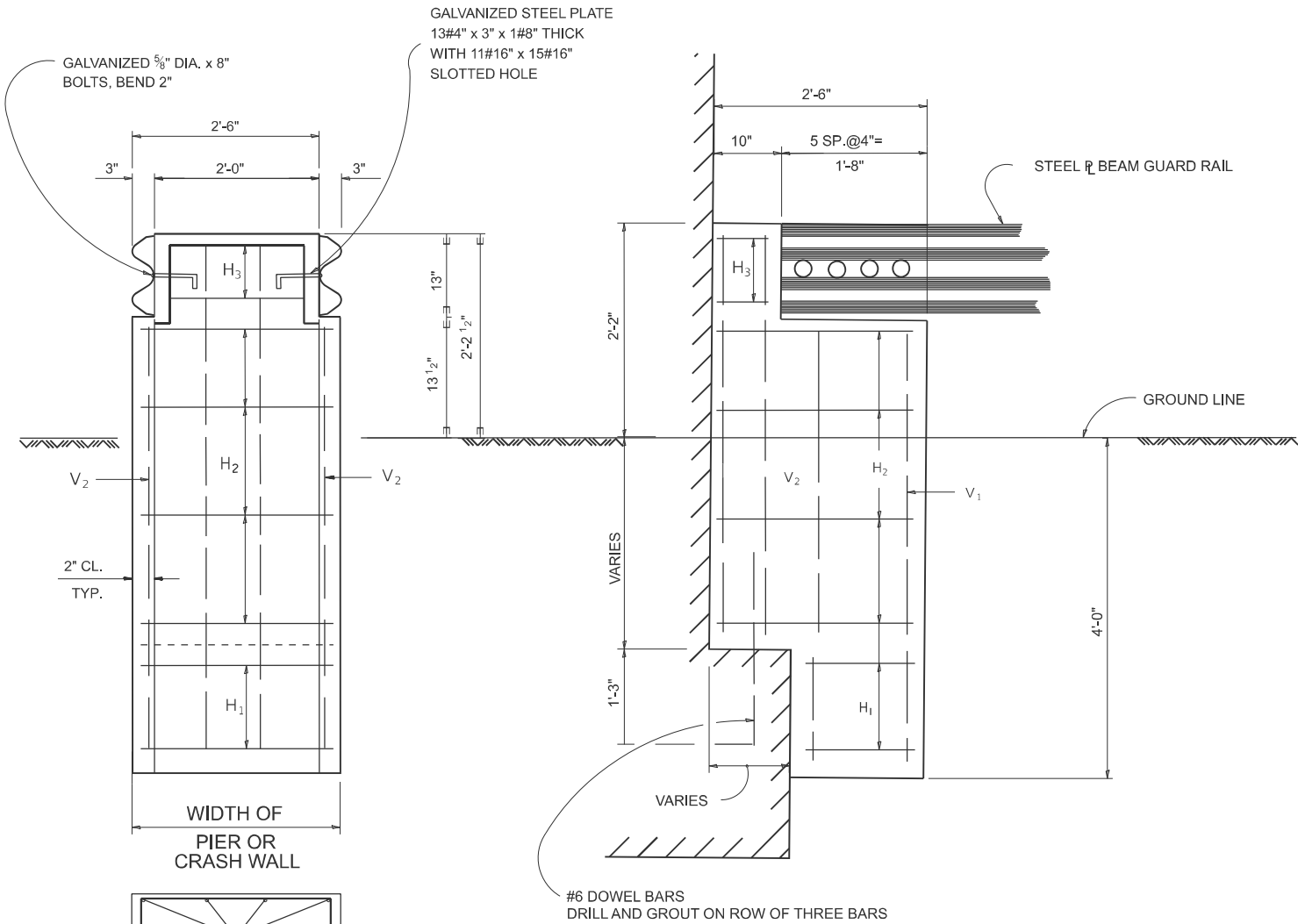
THIS SHEET IS FOR INFORMATION ONLY

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL DETAIL FOR GUARDRAIL ANCHOR BLOCK REPAIR

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
**	2025-1083-GRR	*	32	19
	PM 02	CONTRACT NO. 202500		

*VARIOUS



GUARD RAIL TRANSITIONS

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

MODEL: BM-4 (Sheet)
FILE NAME: c:\p\work\illinois.gov\jacek.ejmont@illinois.gov\d1124856D115125-shi-DieSids.dgn

USER NAME = jacek.ejmont	DESIGNED -	REVISED - R. RITCHIE 05-02-00
	DRAWN - R.F.L.	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -
PLOT DATE = 7/11/2025	DATE - 10-31-88	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

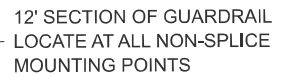
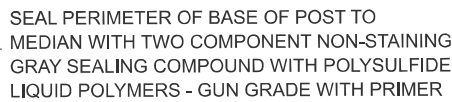
TYPICAL DETAILS FOR STEEL PLATE BEAM GUARDRAIL
ANCHORAGE REPAIR

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
**	2025-1083-GRR	*	32	20
BM-04		CONTRACT NO. 62Y32		
		ILLINOIS	FED. AID PROJECT	

**VARIOUS

**VARIOUS



- NOTE:**
- 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.

THIS SHEET IS FOR INFORMATION ONLY

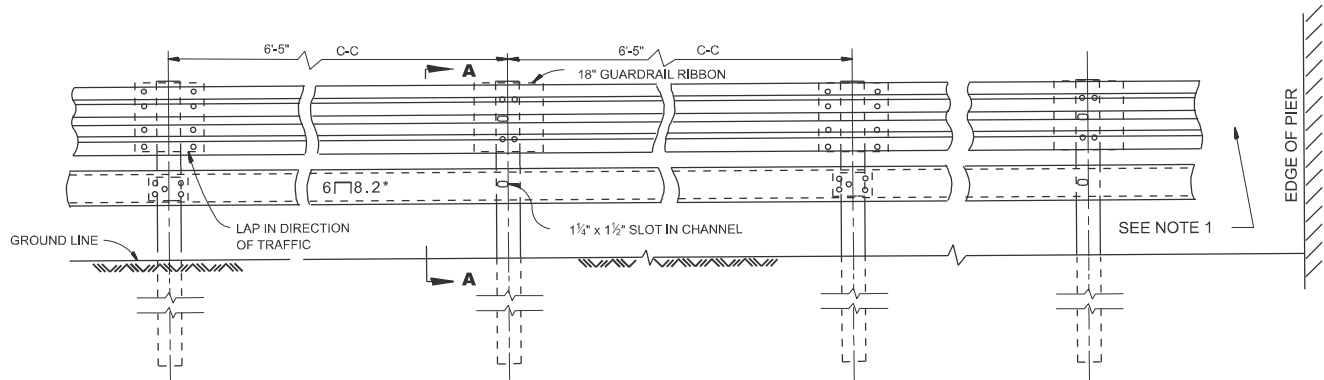
USER NAME = jacek.ejmont	DESIGNED -	REVISED - R. RITCHIE 05-02-00	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				TYPICAL DETAIL FOR CENTER LONGITUDINAL JOINT GUARDRAIL JOINT					F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - R.F.J.	REVISED -										**	2025-1083-GRR	*	32	21
PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -					BM-05					CONTRACT NO. 62Y32				
PLOT DATE = 7/11/2025	DATE - 10-31-88	REVISED -	SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.					ILLINOIS FED. AID PROJECT								

***VARIOUS

*VARIOUS

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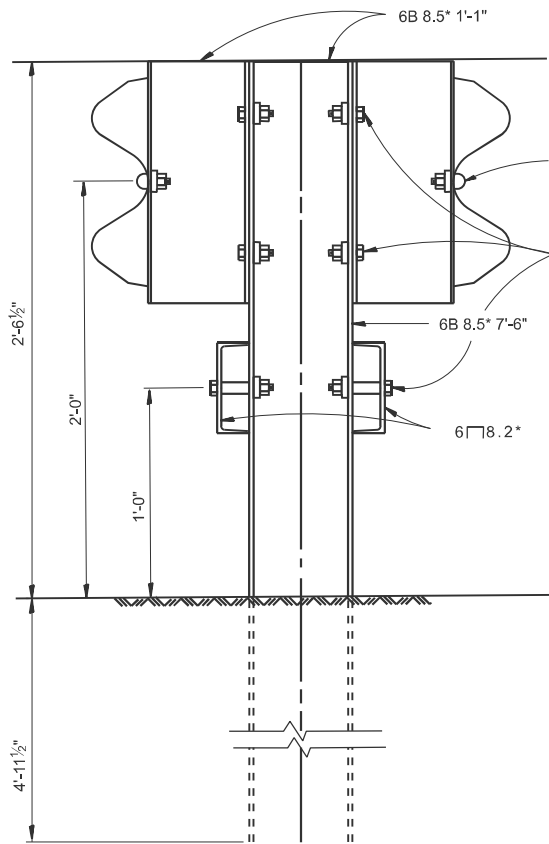
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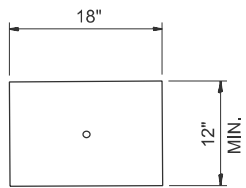
ELEVATION

DETAIL OF END SECTION

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

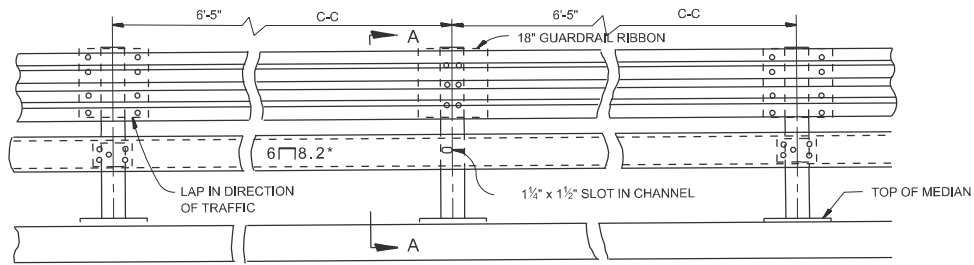


SECTION A-A

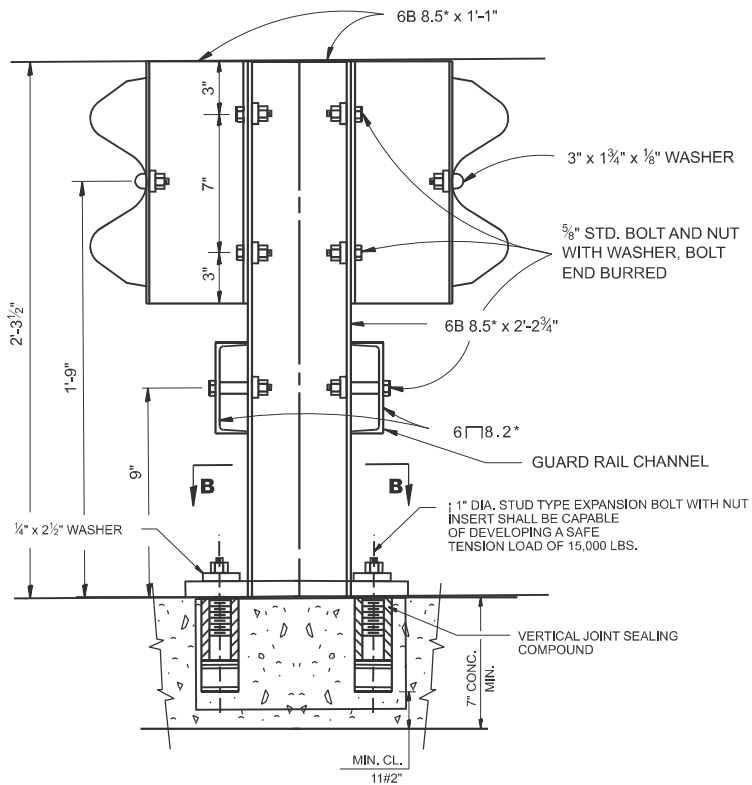


18" GUARDRAIL ELEMENT SPLICE

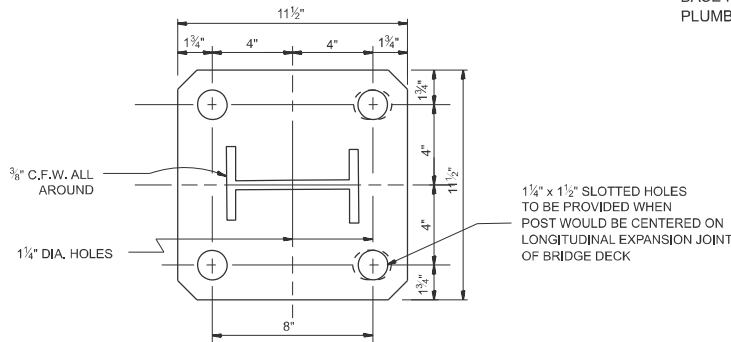
NOTE:
FOR DETAIL OF RAIL ELEMENT, RAIL SPLICING, BOLT,
AND NUT, SEE STATE STANDARD 2230.
A 13#8" x 3" x 1#8" STEEL PLATE WASHER AS SHOWN ON THIS
DRAWING SHALL BE PLACED BETWEEN THE BOLT HEAD
AND THE GUARDRAIL RIBBON AT ALL MOUNTING POINTS.
AN 18" PIECE OF GUARDRAIL RIBBON SHALL BE INSERTED
BETWEEN THE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



ELEVATION

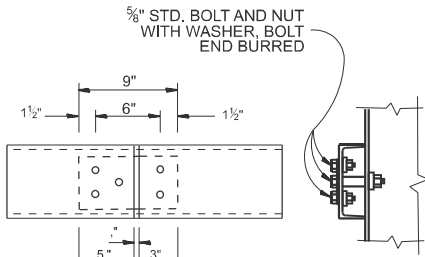


SECTION A-A
ANCHORAGE DETAIL

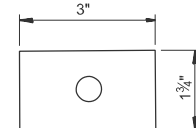


RAIL POST BASE PLATE
LP 11 1/2" x 1 1/4" x 11 1/2"

SECTION B-B



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



WASHER
PLATE 3" x 1 1/2" x 1/4"

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.

THIS SHEET IS FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

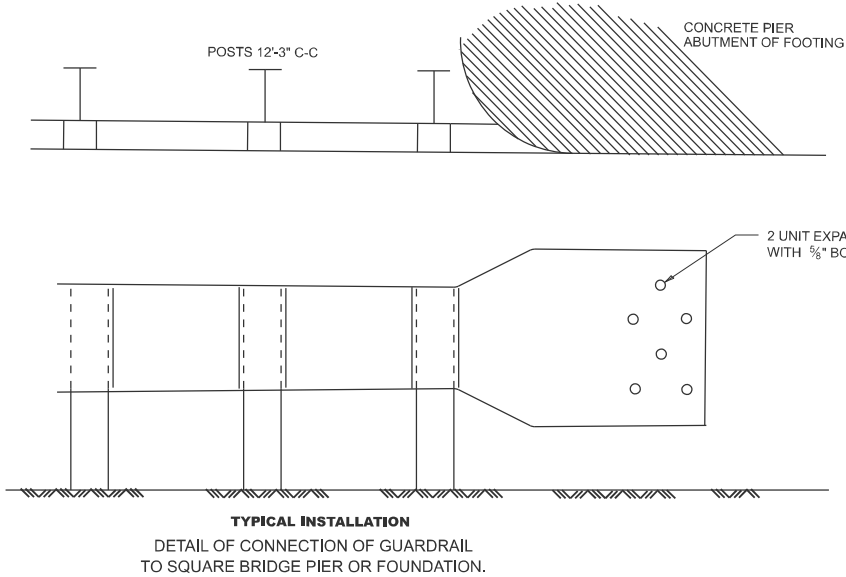
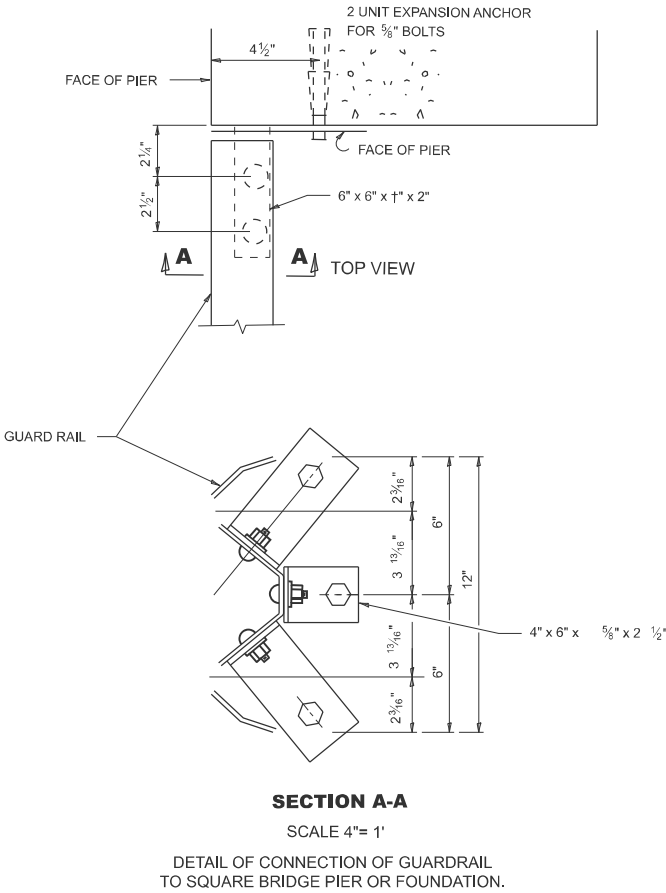
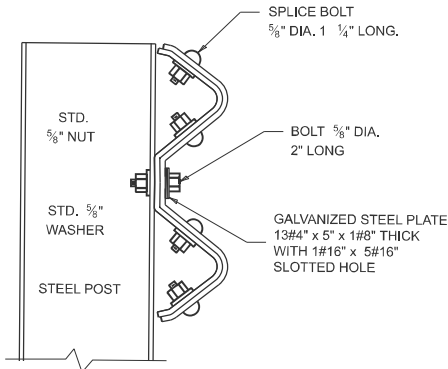
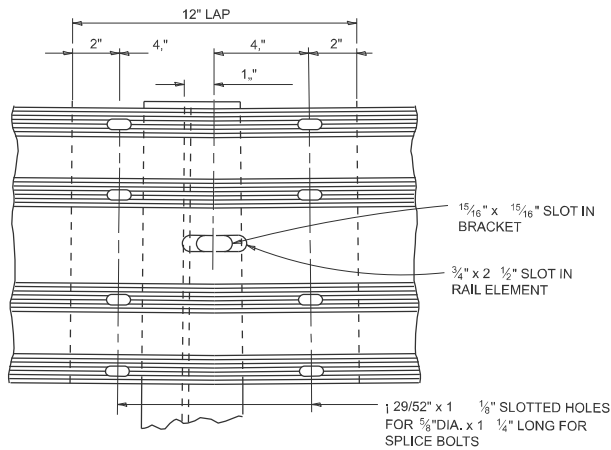
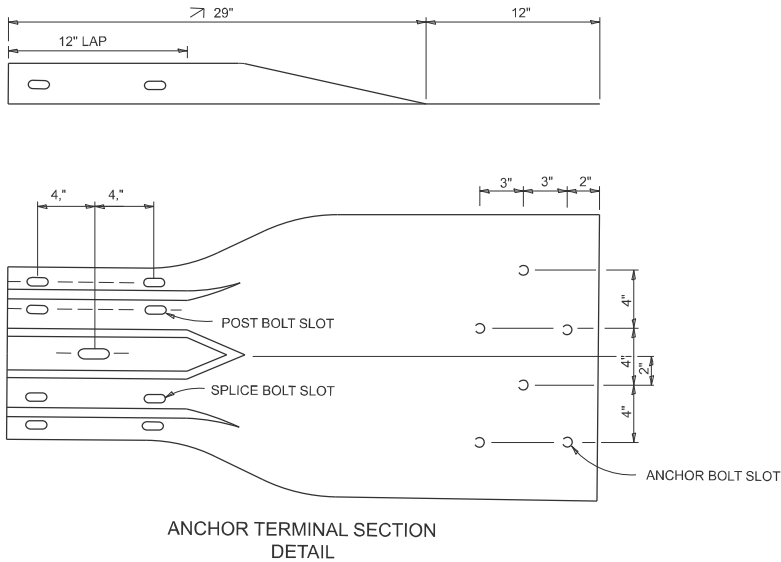
STEEL PLATE BEAM GUARDRAIL
SPECIAL

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
**	2025-1083-GRR	*	32	22
BM-06		CONTRACT NO. 62Y32		
		ILLINOIS FED. AID PROJECT		

**VARIOUS

**VARIOUS



THIS SHEET IS FOR INFORMATION ONLY

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USER NAME = jack.ejmont	DESIGNED -	REVISED - R. RITCHIE 05-02-00
PLOT SCALE = \$SCALE\$	DRAWN - R.F.L.	REVISED -
PLOT DATE = 7/11/2025	CHECKED -	REVISED -
	DATE - 10-31-88	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF GUARDRAIL SUPPORT
AND END ANCHORAGE

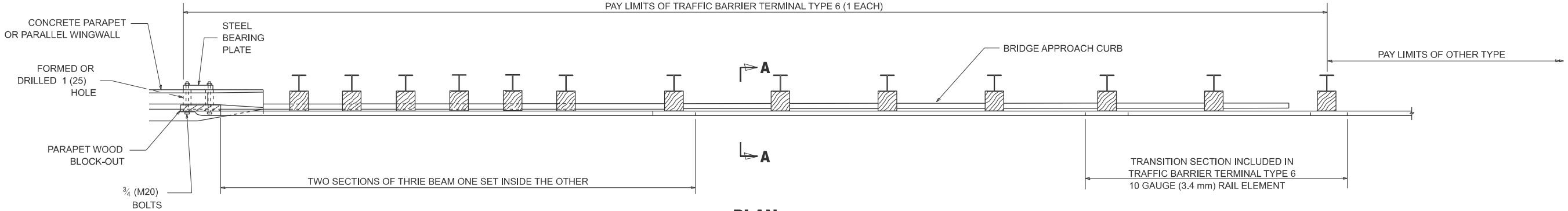
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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BM-07		CONTRACT NO. 62Y32		
ILLINOIS		FED. AID PROJECT		

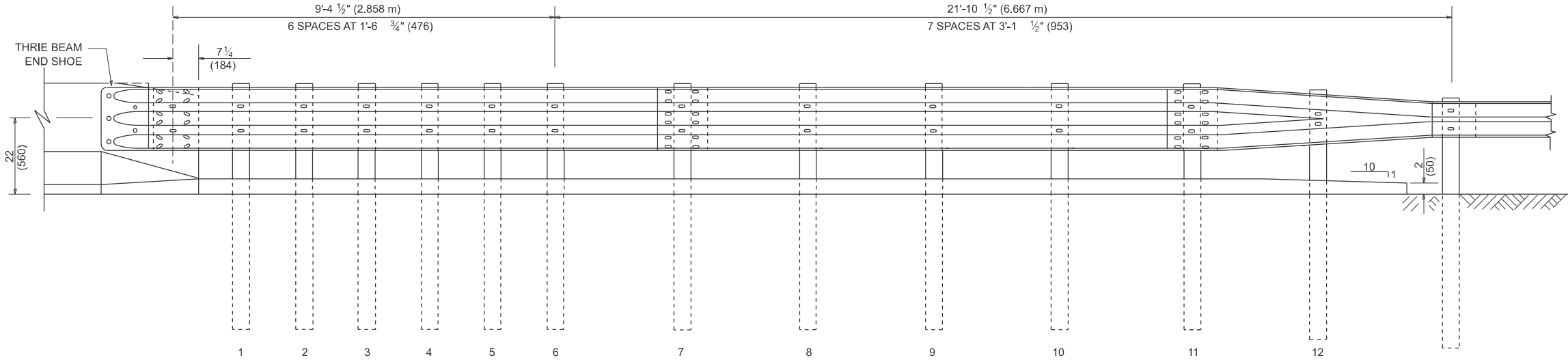
**VARIOUS

**VARIOUS

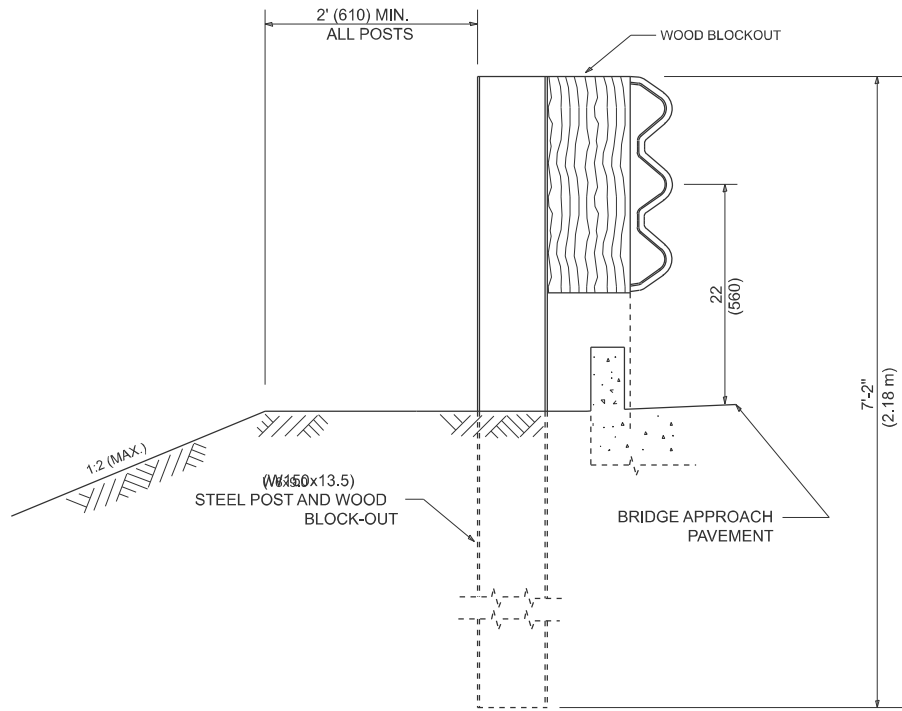
PARAPET OR WINGWALL



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

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	DRAWN -	REVISED - 631031-05 02/19/2008
PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -
PLOT DATE = 7/11/2025	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.

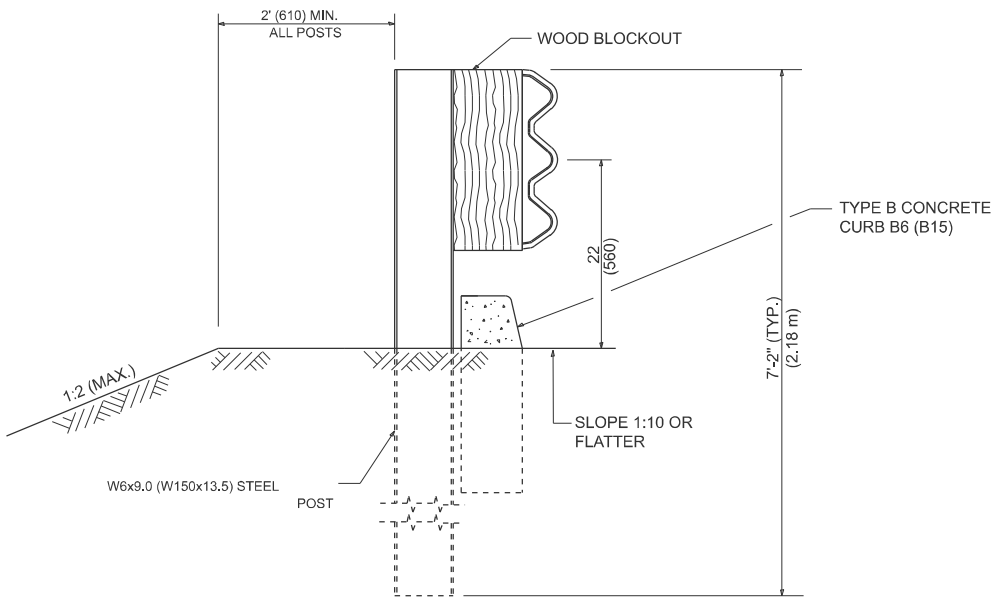
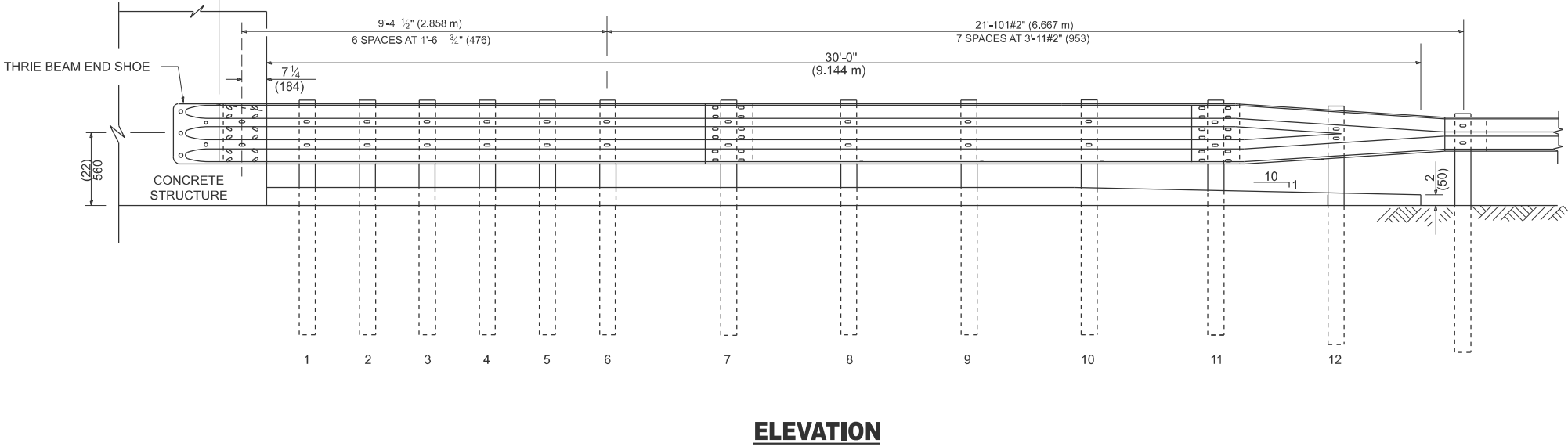
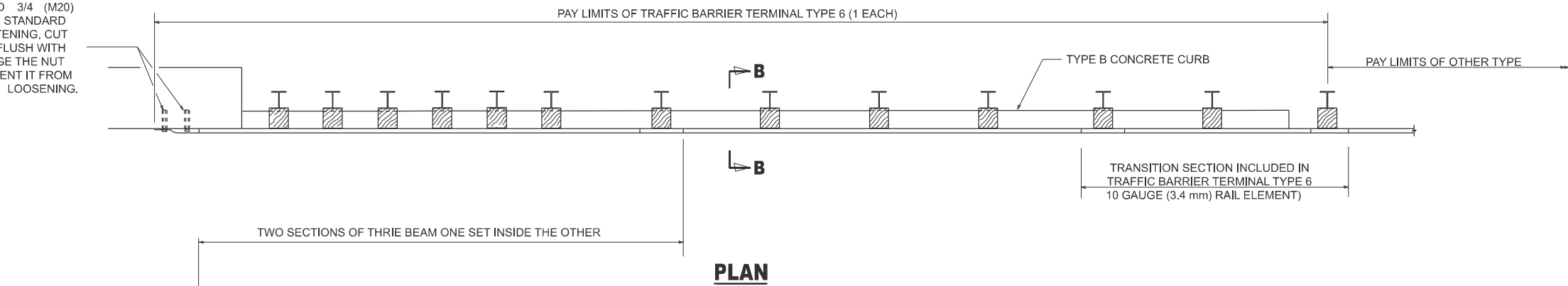
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**	2025-1083-GRR	*	32	24
BM 22		CONTRACT NO. 62Y32		
ILLINOIS		FED. AID PROJECT		

**VARIOUS

**VARIOUS

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.



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

USER NAME = jacek.ejmont	DESIGNED -	REVISED -
	DRAWN -	REVISED - 631031-05 02/19/2008
PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -
PLOT DATE = 7/11/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPE 6 TERMINAL
FOR USE WITH 21" HIGH SPBGR

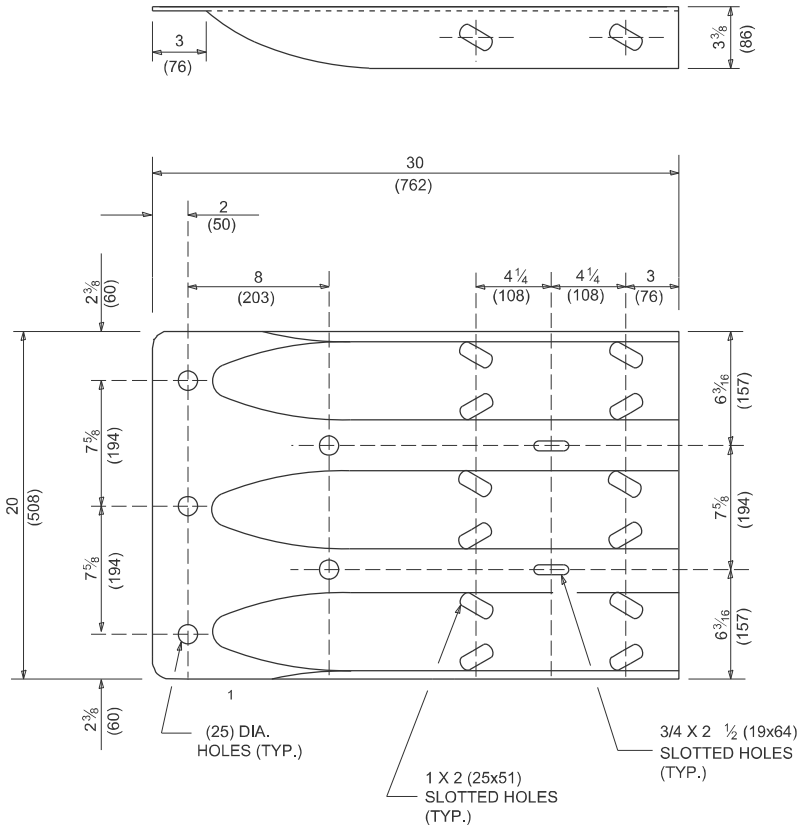
SCALE: NONE SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
**	2025-1083-GRR	*	32	25
BM 22		CONTRACT NO. 62Y32		

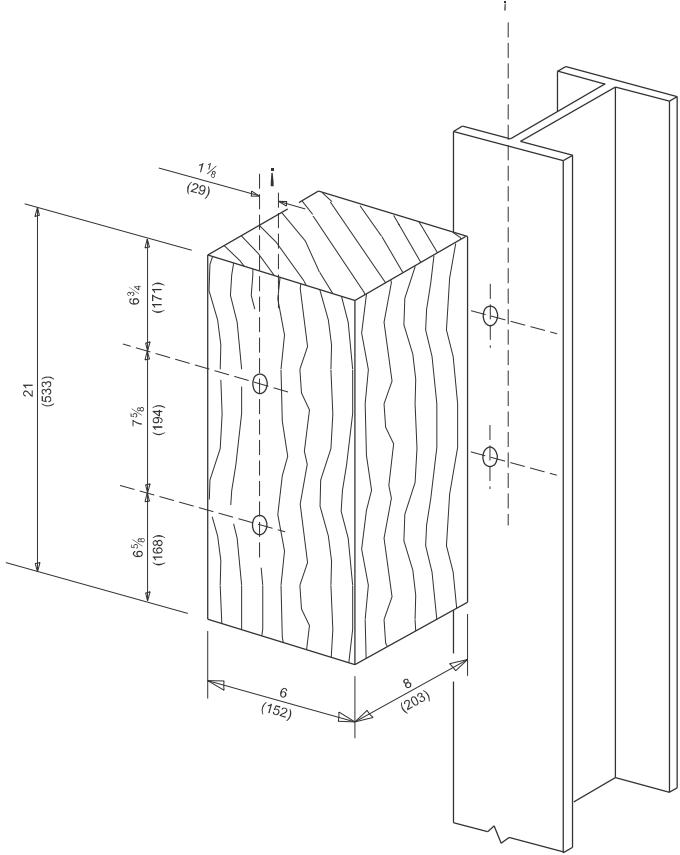
ILLINOIS FED. AID PROJECT **VARIOUS *VARIOUS

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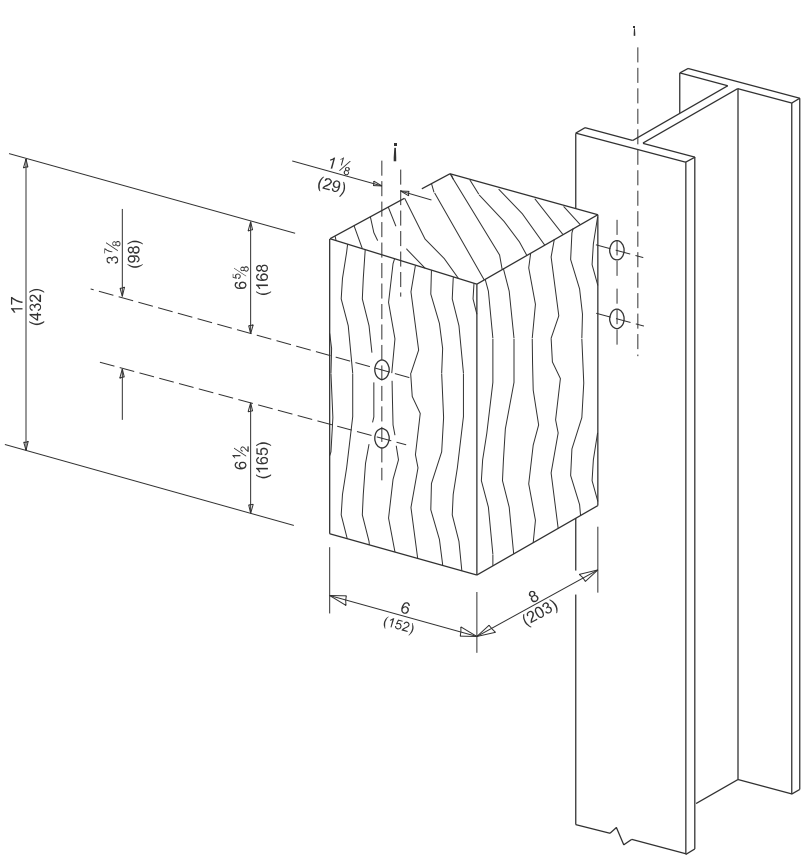
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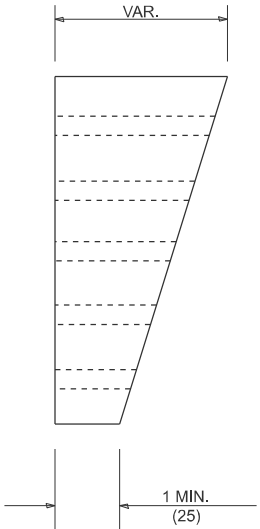
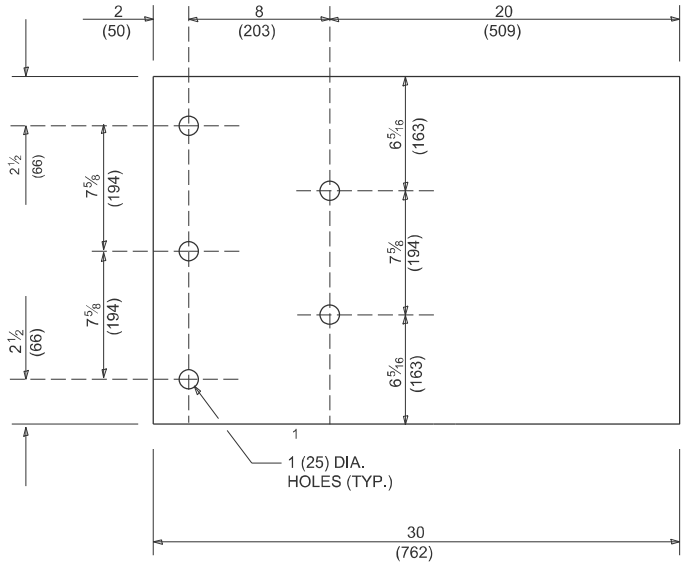
THRIE BEAM END SHOE DETAIL



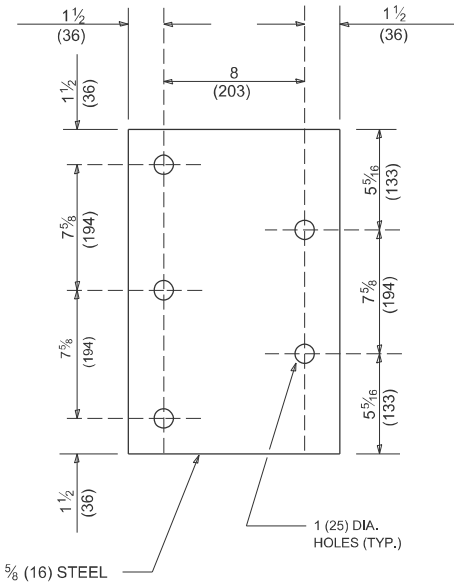
POSTS 1-11 WOOD BLOCKOUT DETAIL



POST 12 WOOD BLOCKOUT DETAIL



PARAPET WOOD BLOCK-OUT DETAIL



PARAPET STEEL BEARING PLATE DETAIL

(5 EACH INDIVIDUAL 5X5X 5/8 (125x125x16) STEEL
PLATES WITH CENTERED 1 (25) HOLES MAY BE
SUBSTITUTED FOR THE PLATE SHOWN.)

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

USER NAME = jacek.ejmont	DESIGNED -	REVISED -
DRAWN -	REVISED - 631031-05 02/19/2008	
PLOT SCALE = \$\$CALE\$	CHECKED -	REVISED -
PLOT DATE = 7/11/2025	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.
**	2025-1083-GRR	*	32	26
BM 22		CONTRACT NO. 62Y32		
ILLINOIS		FED. AID PROJECT		

**VARIOUS

**VARIOUS



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.



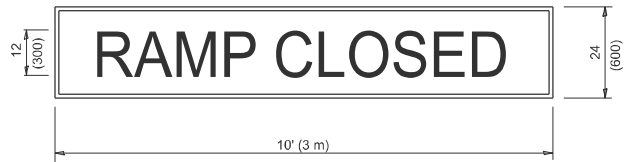
SYMBOLS

TYPE II BARRICADE OR DRUM

E TYPE III BARRICADE WITH 2 FLASHING LIGHTS



RAMP CLOSURE ADVANCE WARNING SIGN



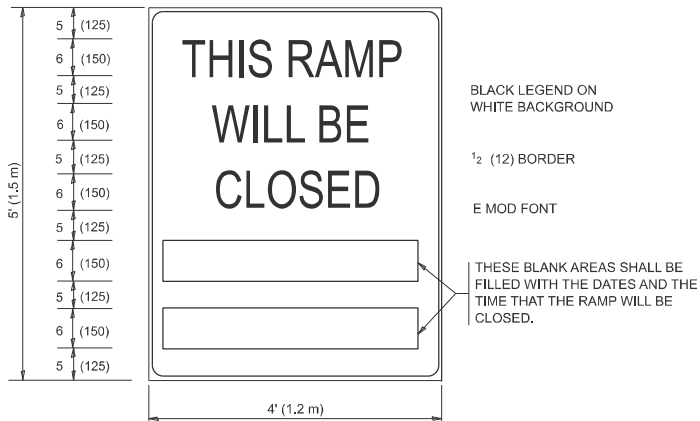
BLACK LEGEND ON ORANGE
BACKGROUND MOUNTED
DIAGONALLY
E MOD FONT
1 (25) BORDER

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



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. | ⑥ AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES. |
| ② VERTICAL BARRICADES SHALL NOT BE USED FOR 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. |
| ③ A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEDED BY A W20-7 FLAGGER WARNING SIGN. | 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. |
| 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. | ⑨ ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE. |
| ⑤ THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS). | |

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

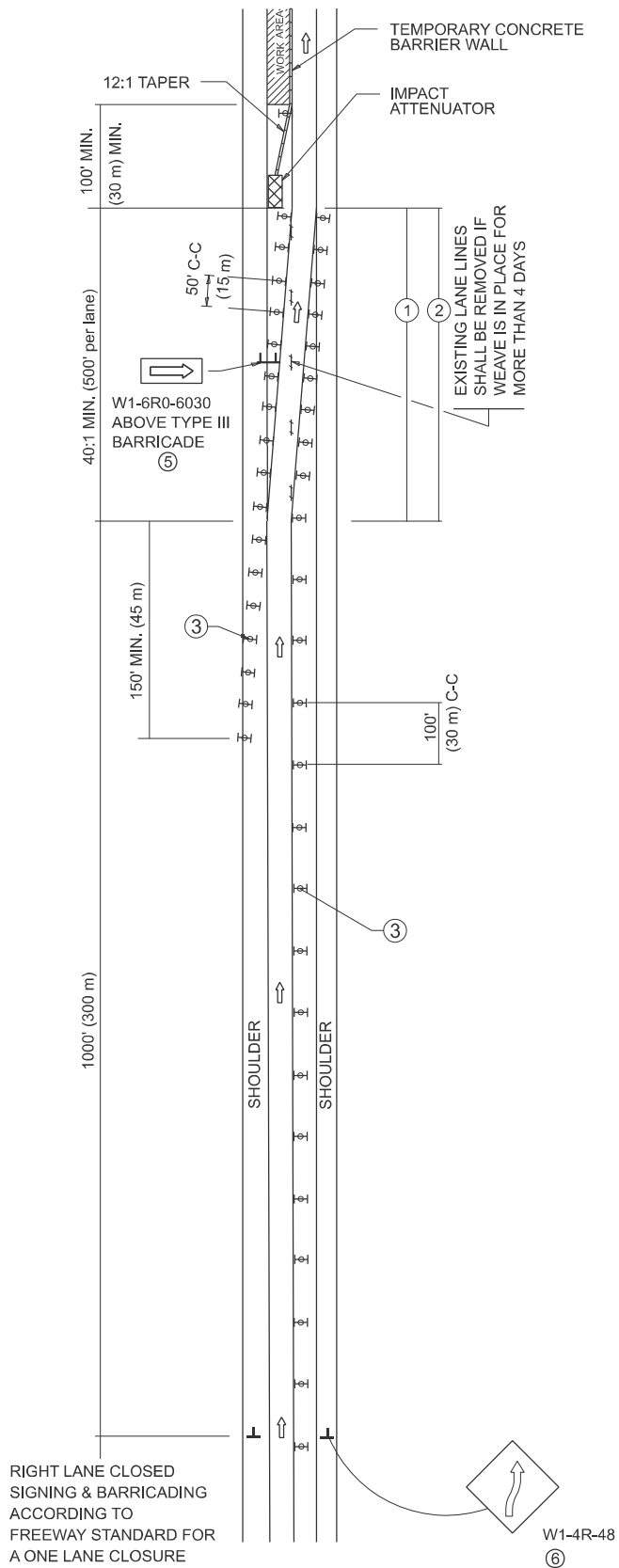
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	PLOT DATE = 7/11/2025	DATE - 02-83	REVISED - D.S._05-24		SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT				

****VARIOUS**

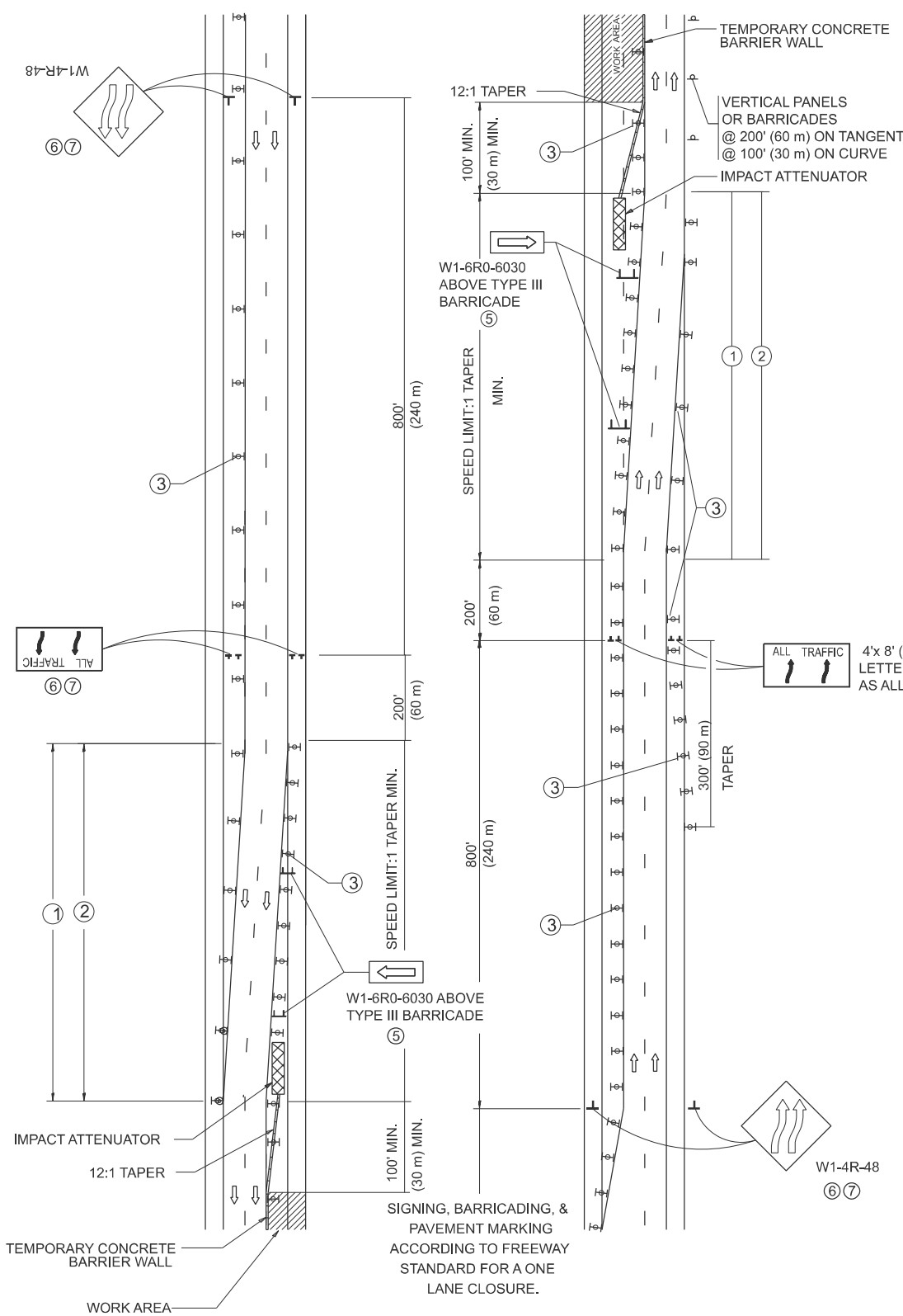
*VARIOUS

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SINGLE LANE WEAVE



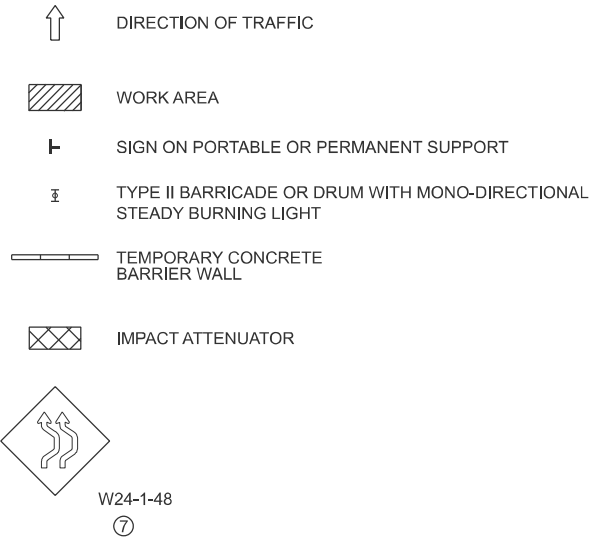
MULTI-LANE WEAVE



GENERAL NOTES:

- EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.
- 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.
- PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- 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.
- 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.
- THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

SYMBOLS



ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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PLOT SCALE = \$SCALE\$	CHECKED -	REVISED - S.P.B. 12-09
PLOT DATE = 7/11/2025	DATE - 02-87	REVISED - M.D. 06-13

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR
FREEWAY SINGLE & MULTI-LANE WEAVE

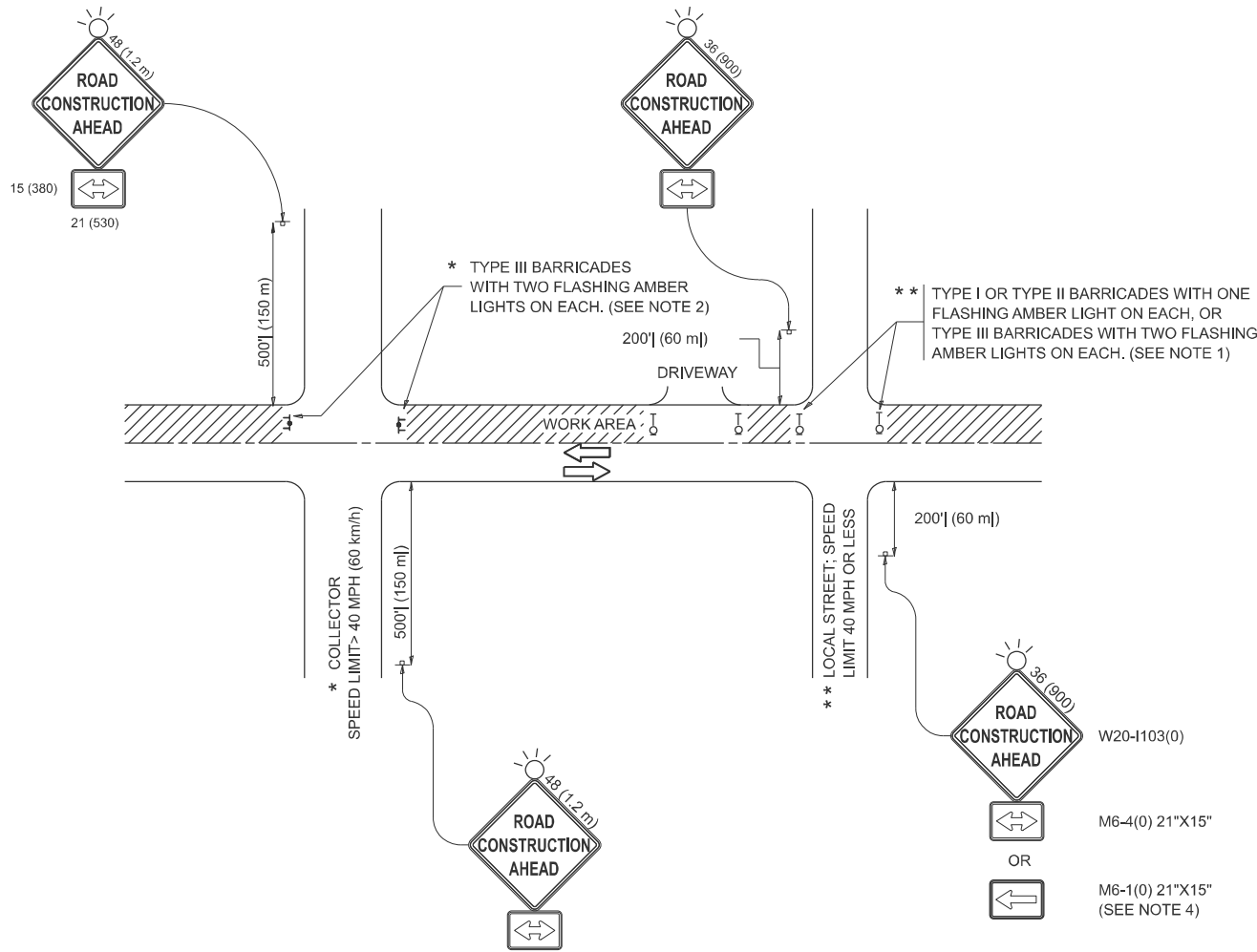
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F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
**	2025-1083-GRR	*	32	28
TC-09		CONTRACT NO. 62Y32		
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**VARIOUS

**VARIOUS

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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:
 - 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.
 - 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.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - 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.
 - 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.
- 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.
- 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).
- 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.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- 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.

	USER NAME = jacek.ejmont	DESIGNED - L.H.A.	REVISED - T. RAMMACHER 01-06-00	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.
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	PLOT DATE = 7/11/2025	DATE - 06-89	REVISED - D. SENDERAK 05-03-24									ILLINOIS		FED. AID PROJECT		

**VARIOUS

*VARIOUS

TURN BAY ENTRANCE AT START
OF LANE CLOSURE TAPER

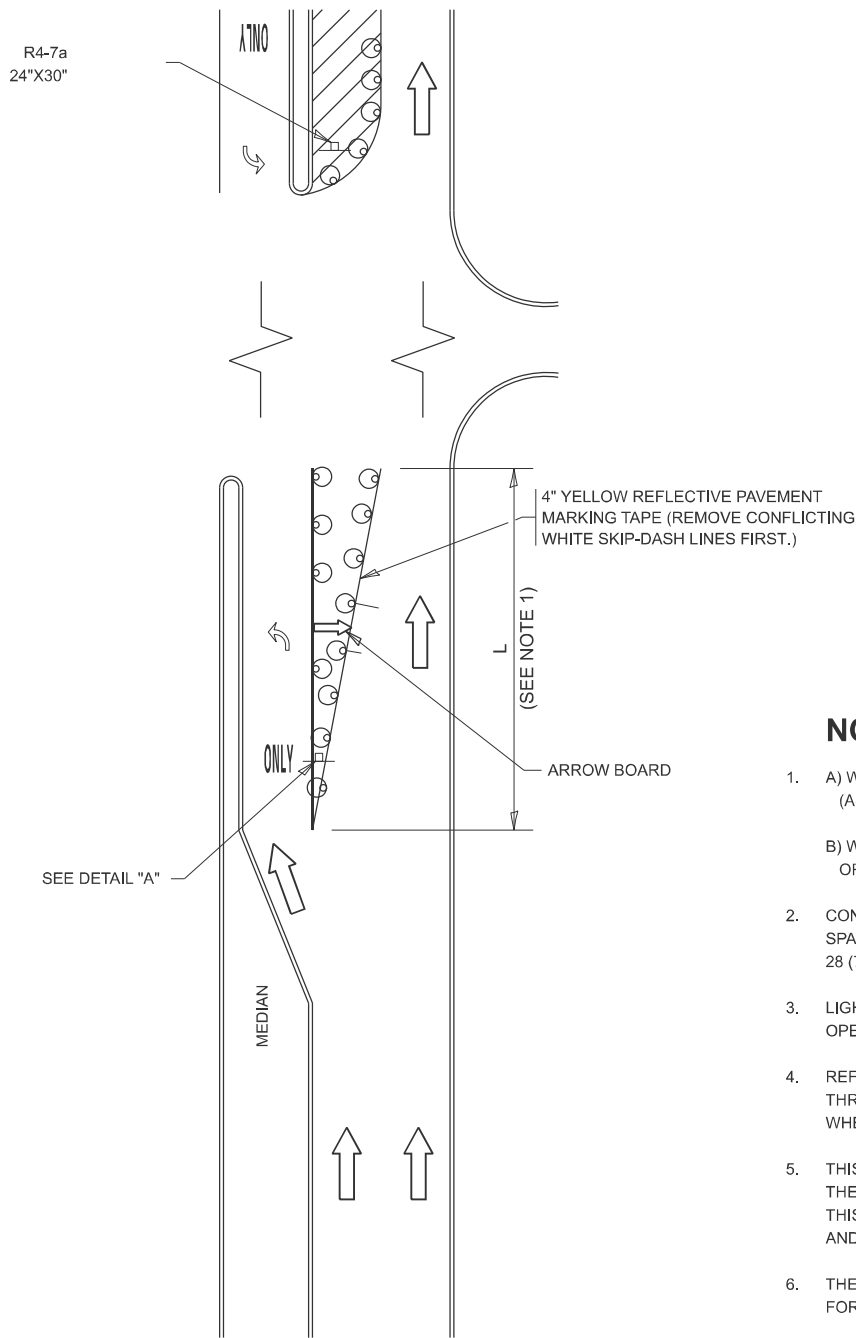


FIGURE 1

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:

- 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.
- 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.
- LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
- 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.
- 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.
- THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
- THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH REQUIREMENTS.
- 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

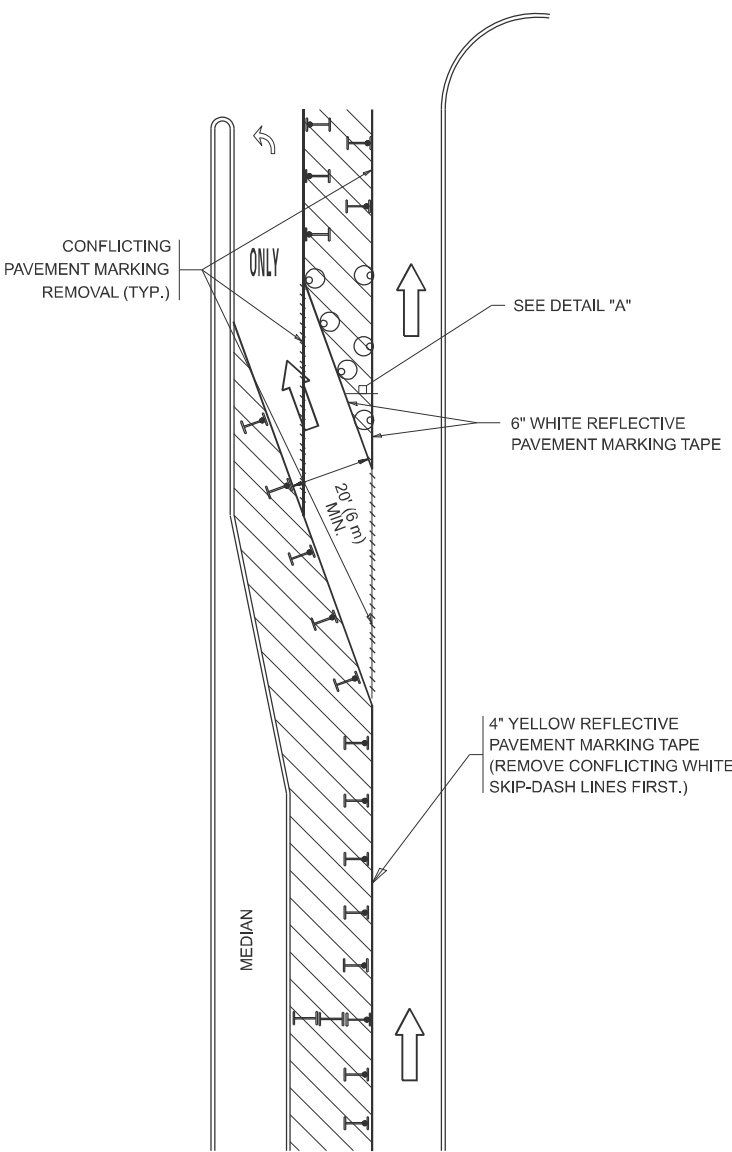
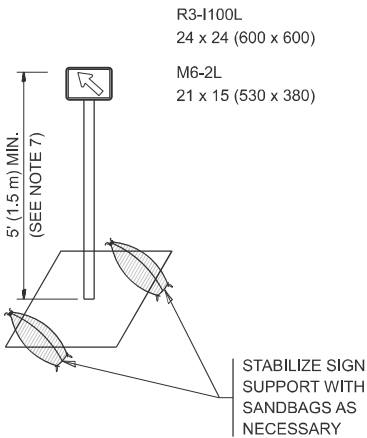


FIGURE 2



DETAIL A

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

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PLOT SCALE = \$SCALE\$	CHECKED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16
PLOT DATE = 7/11/2025	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)

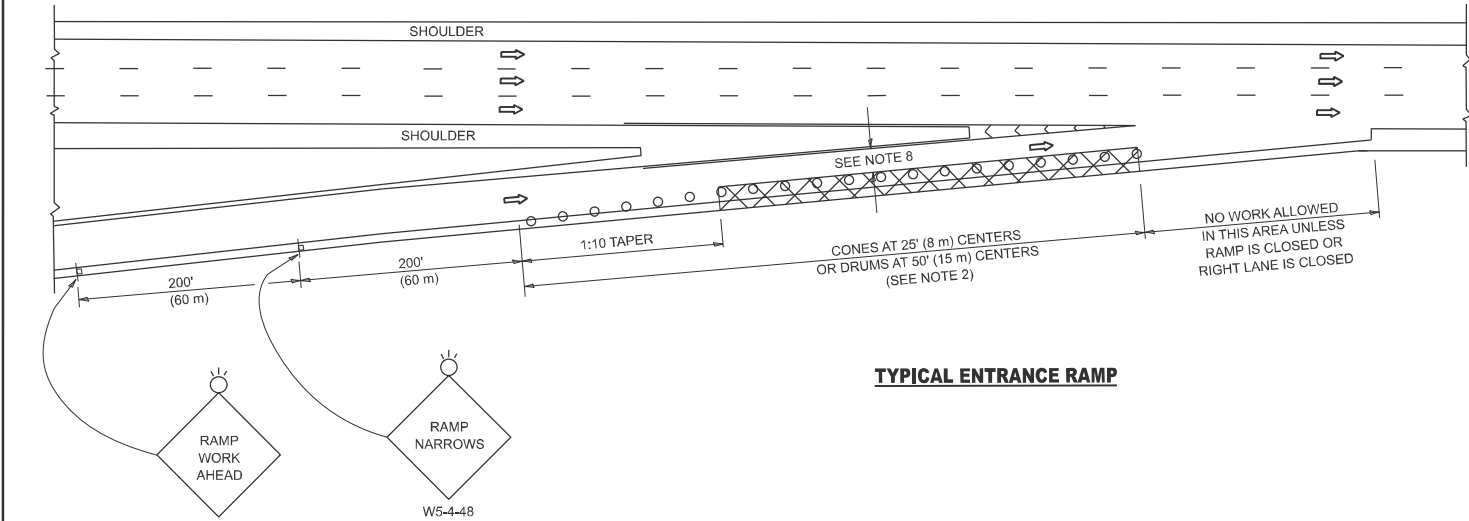
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F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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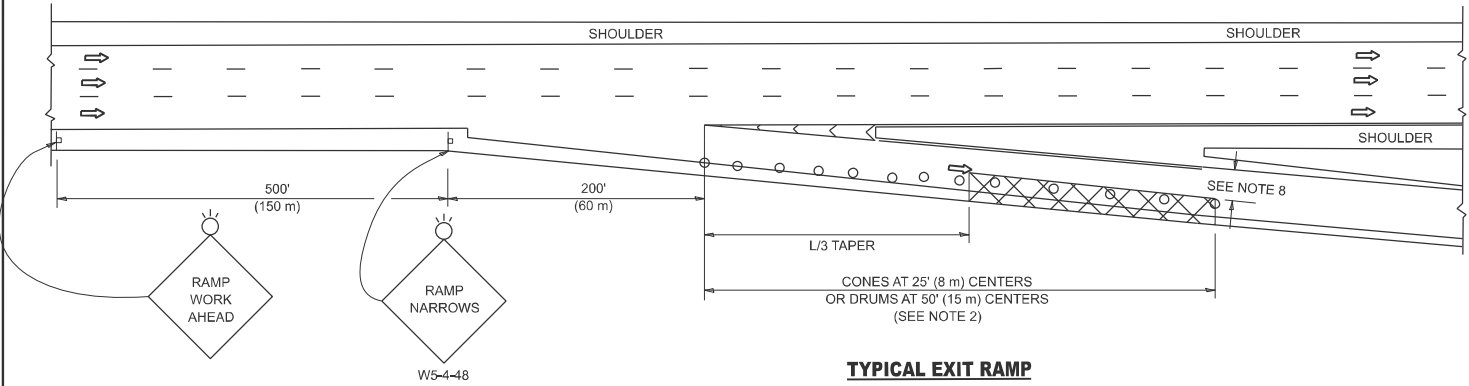
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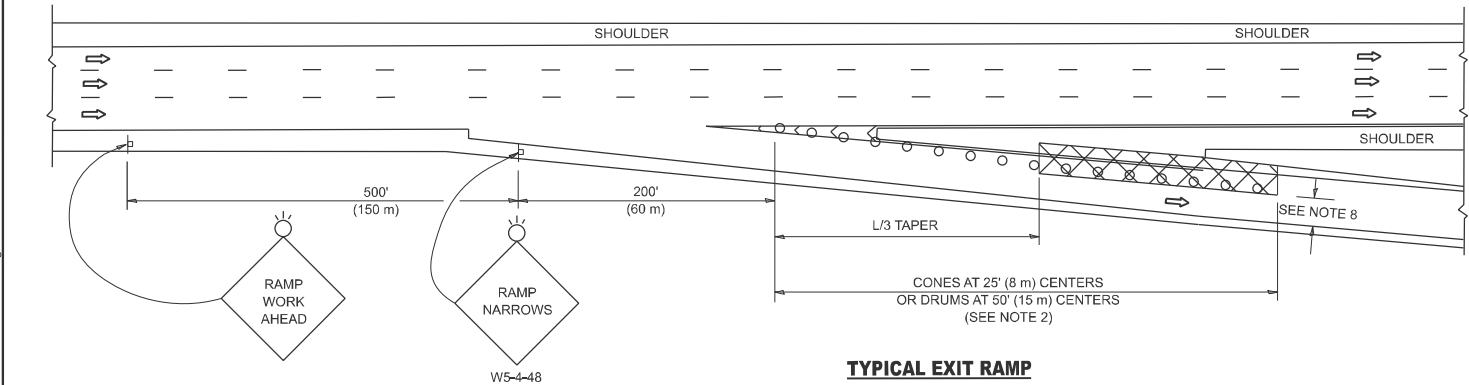
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

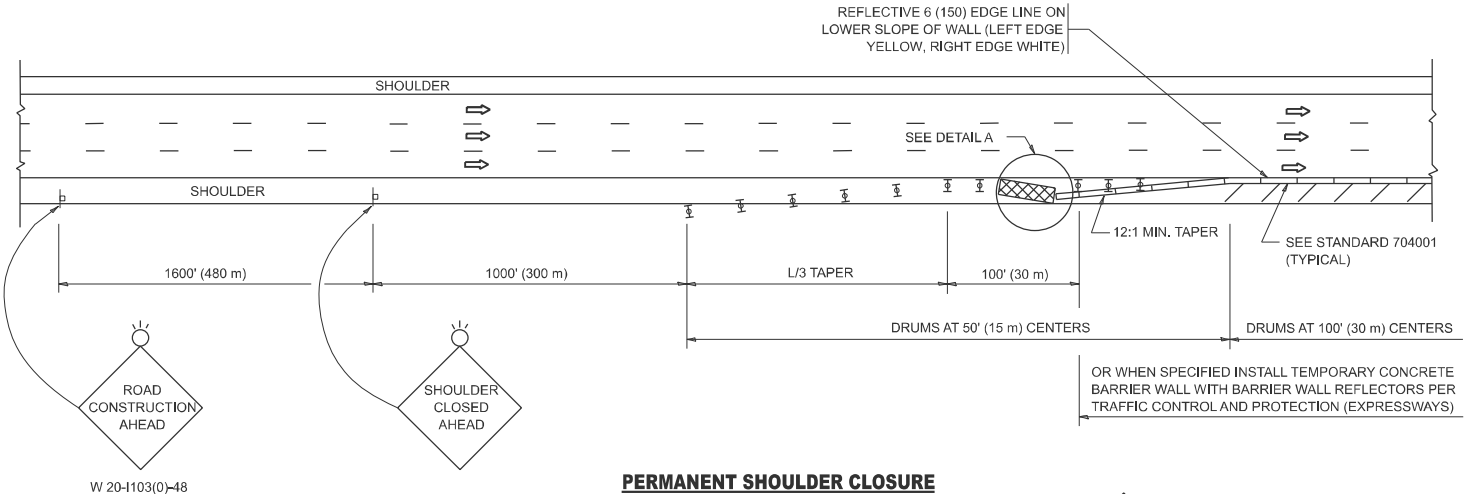
SYMBOLS

- 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

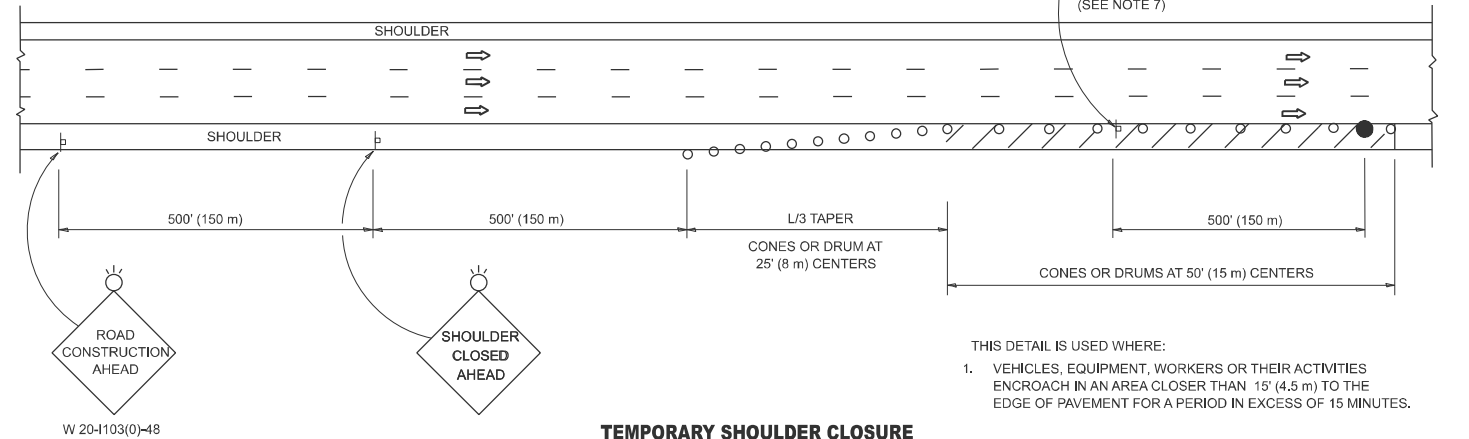
GENERAL NOTES:

- 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

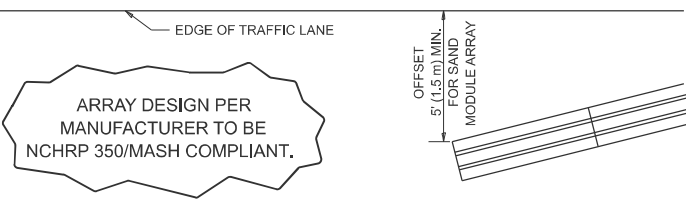


PERMANENT SHOULDER CLOSURE



TEMPORARY SHOULDER CLOSURE

- THIS DETAIL IS USED WHERE:
- VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH 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:
a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
b. THE WORK ACTIVITY REQUIRES FREQUENT ENCROACHMENT 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 RAMP 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.

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.

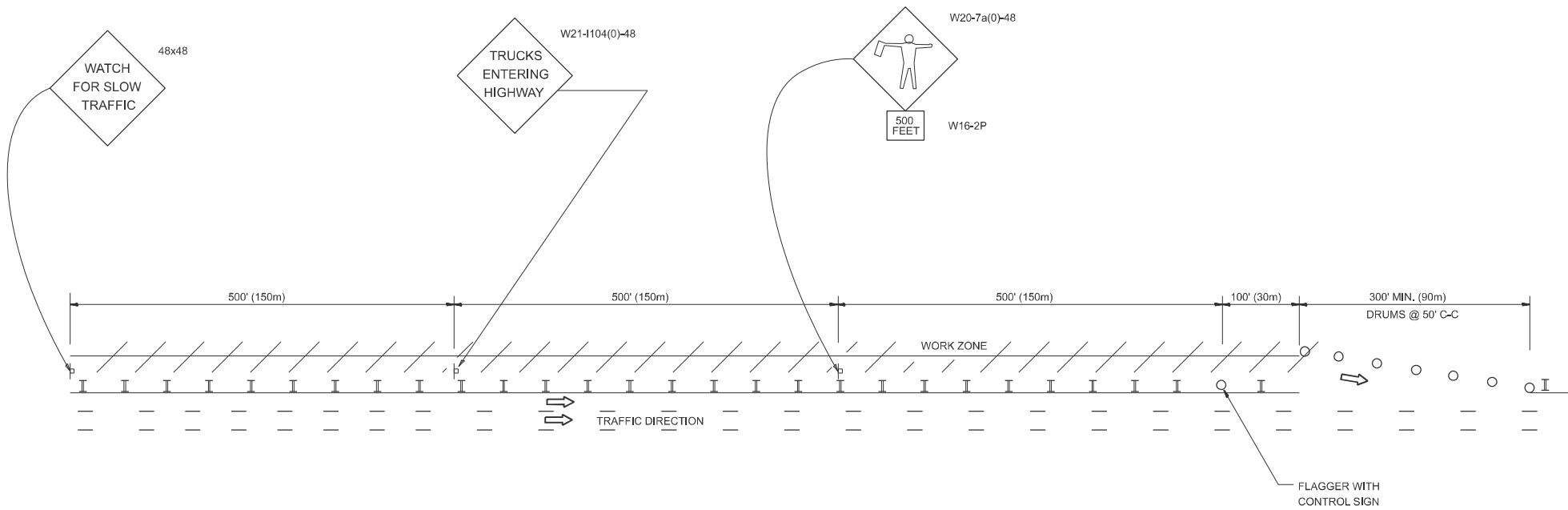
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TC-17		CONTRACT NO. 62Y32		
ILLINOIS		FED. AID PROJECT		

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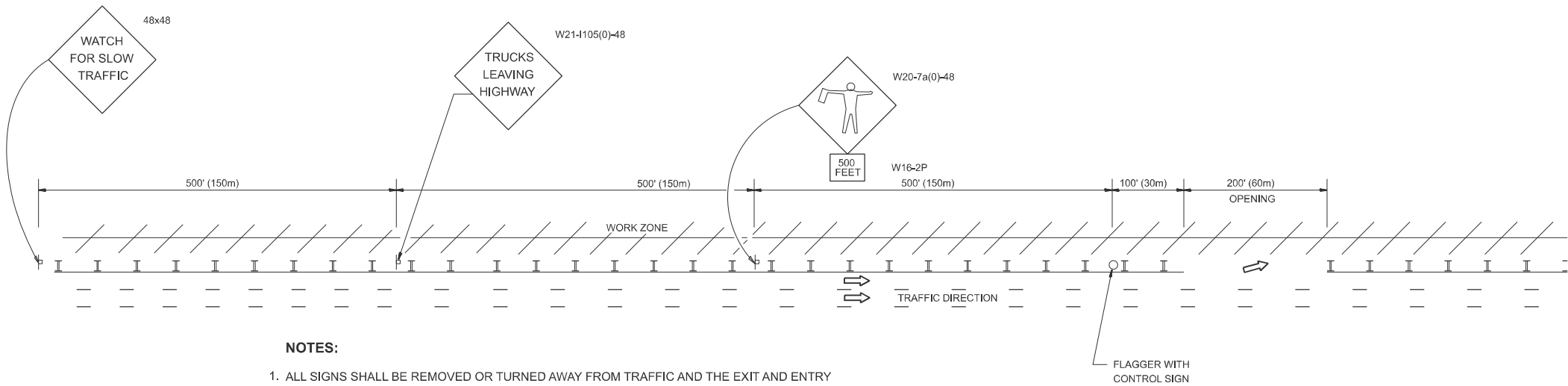
**VARIOUS

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

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										**VARIOUS							
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