

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

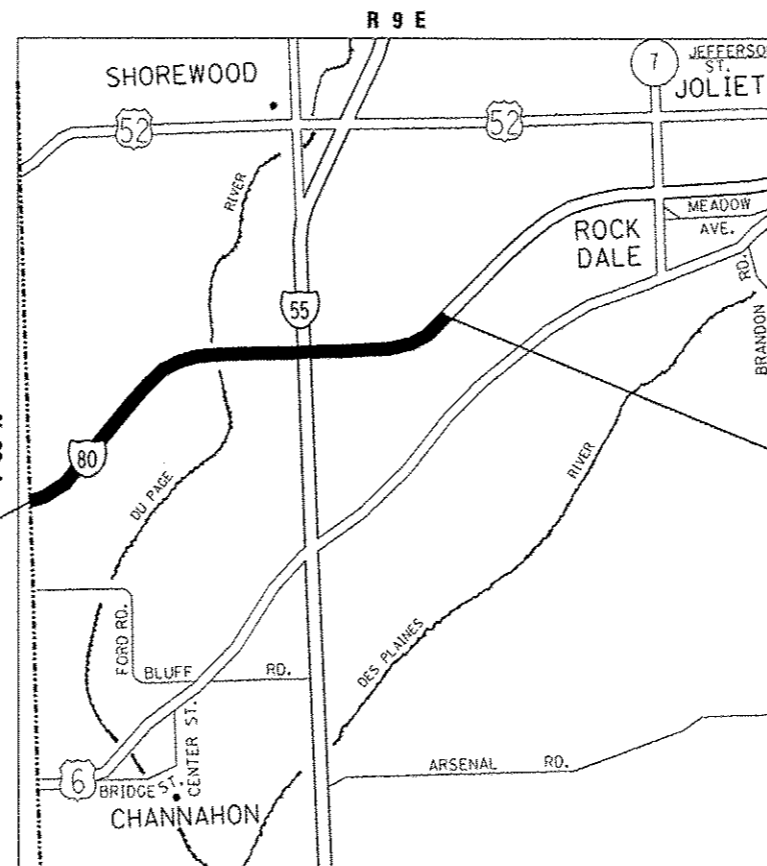
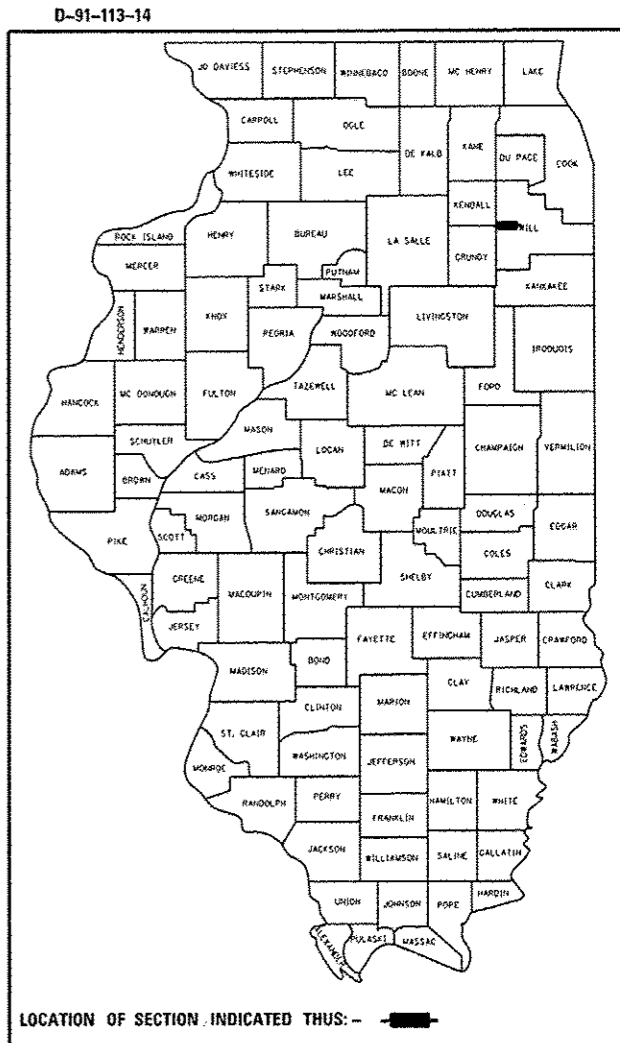
F.A.I. ROUTE 80: INTERSTATE 80
SECTION: 2013-0711
GRUNDY COUNTY LINE TO HOUBOLT ROAD
GUARDRAIL INSTALLATION
PROJECT: ACHSIP-0080(403)

WILL COUNTY
C-91-113-14

TRAFFIC DATA
ADT: 50,400 (2011)
SPEED LIMIT: 65 MPH

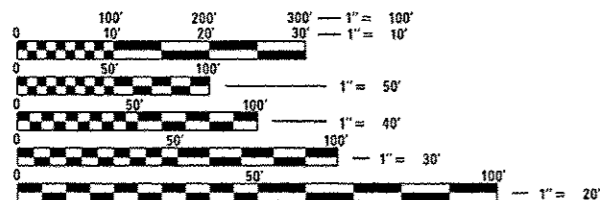
THIS PROJECT IS LOCATED IN THE CITY OF JOLIET & THE VILLAGES OF MINOOKA AND CHANNAHON

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-0711	WILL	19	1
		ILLINOIS	CONTRACT NO. 60X48	



PROJECT BEGINS
STA. 21 + 46

PROJECT ENDS
STA. 319 + 00



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

PROJECT ENGINEER: DAN WILGREEN (847) 705-4240
PROJECT MANAGER: KEN ENG (847) 705-4247

CONTRACT NO. 60X48

GROSS LENGTH = NET LENGTH = 29,754 FT = 5.63 MILES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED January 29, 2014
John F. [Signature]
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

March 21, 2014
John D. Baranzelli, PE
ENGINEER OF DESIGN AND ENVIRONMENT

March 21, 2014
Omer Osman, PE
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

SUMMARY OF QUANTITIES			URBAN		CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	90% FED 10% STATE					
				0021					
* 21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	1011	1011					
* 25000210	SEEDING, CLASS 2A	ACRE	0.21	0.21					
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	19	19					
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	19	19					
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	19	19					
* 25100630	EROSION CONTROL BLANKET	SO YD	1011	1011					
* 28000400	PERIMETER EROSION BARRIER	FOOT	1845	1845					
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	1737.5	1737.5					
	6 FOOT POSTS								
63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	6	6					
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	5	5					
	(SPECIAL) TANGENT								
63100169	TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	9	9					
	(SPECIAL) FLARED								
63200310	GUARDRAIL REMOVAL	FOOT	487.5	487.5					
63500105	DELINEATORS	EACH	50	50					
63500310	REMOVE AND REINSTALL DELINEATORS	EACH	180	180					

SUMMARY OF QUANTITIES			URBAN		CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	90% FED 10% STATE					
				0021					
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6					
67100100	MOBILIZATION	L SUM	1	1					
78200410	GUARDRAIL MARKERS, TYPE A	EACH	45	45					
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	14	14					
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	1					
X7010410	SPEED DISPLAY TRAILER	CAL MO	2	2					

X7010410 SPEED DISPLAY TRAILER CAL MO 2 2

Rev. 4-11-14

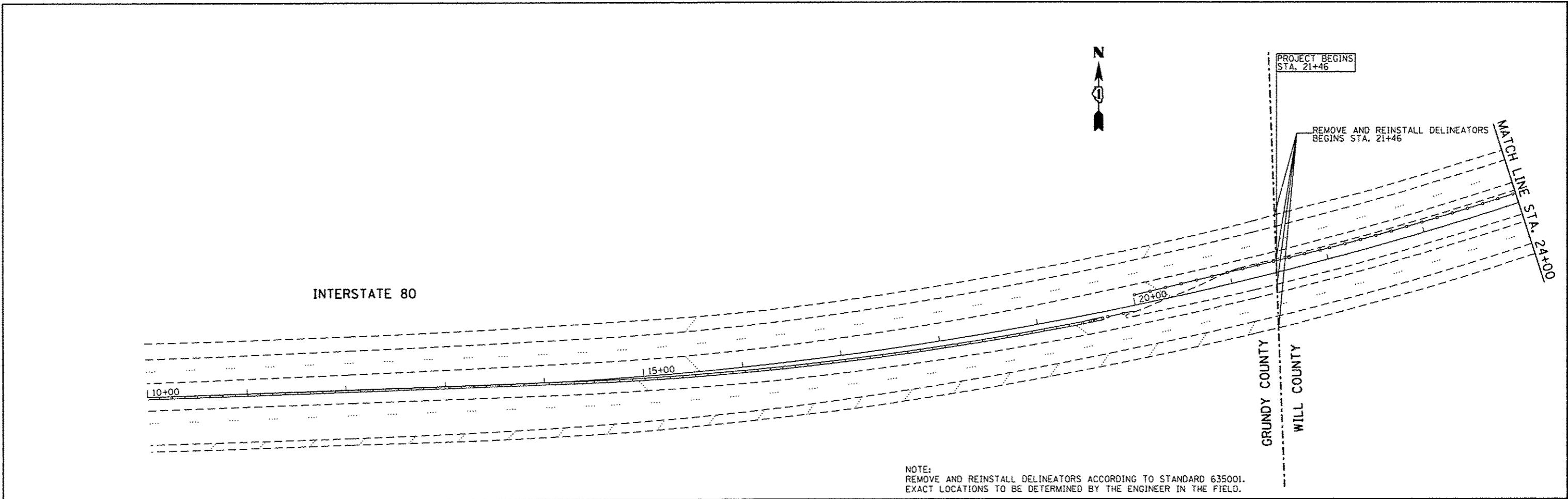
* Specialty Items

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		CHECKED -	REVISED -
		DATE -	REVISED -

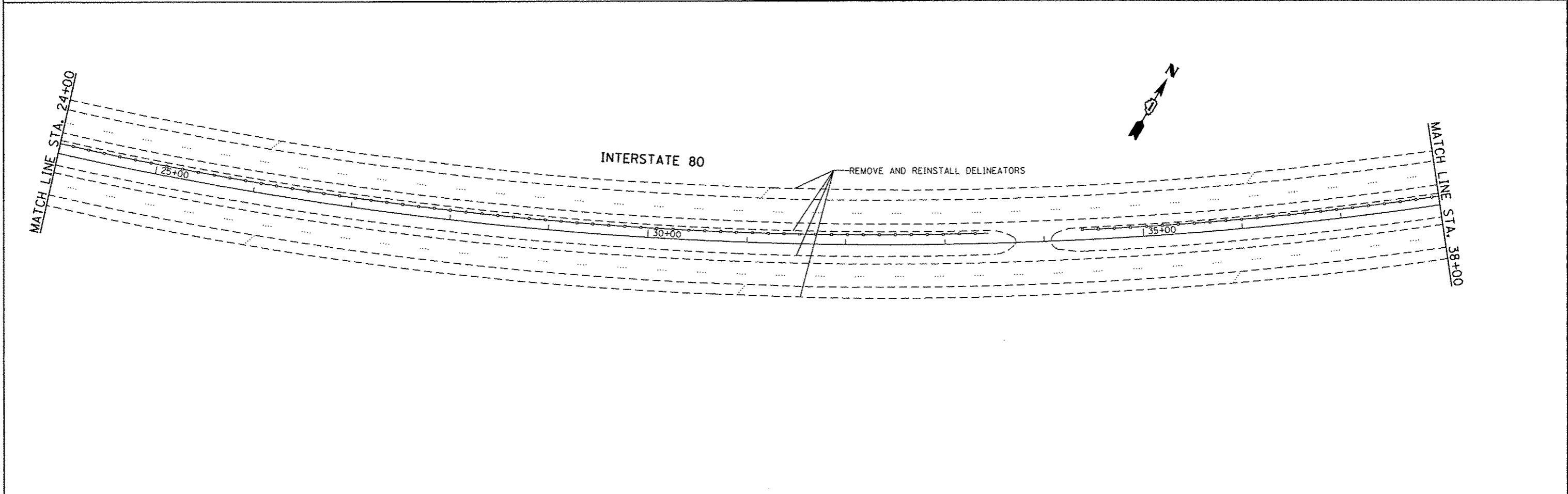
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 (GRUNDY COUNTY LINE TO HOUBOLT ROAD)
SUMMARY OF QUANTITIES

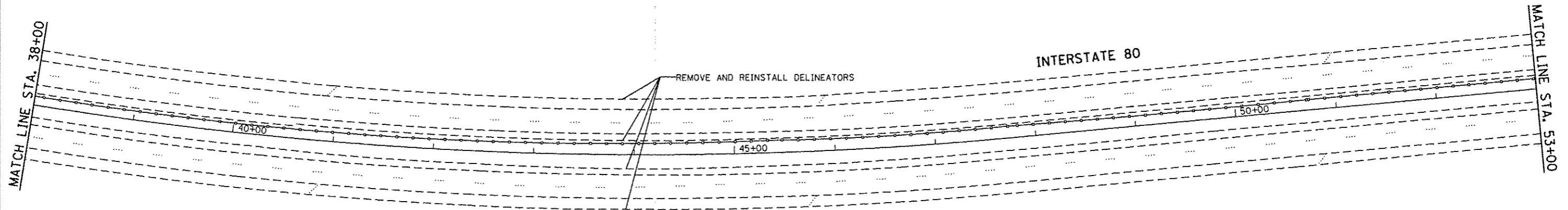
F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-0711	WILL	19	3
FED. ROAD DIST. NO. 1			ILLINOIS FED. AID PROJECT	
CONTRACT NO. 60X48				



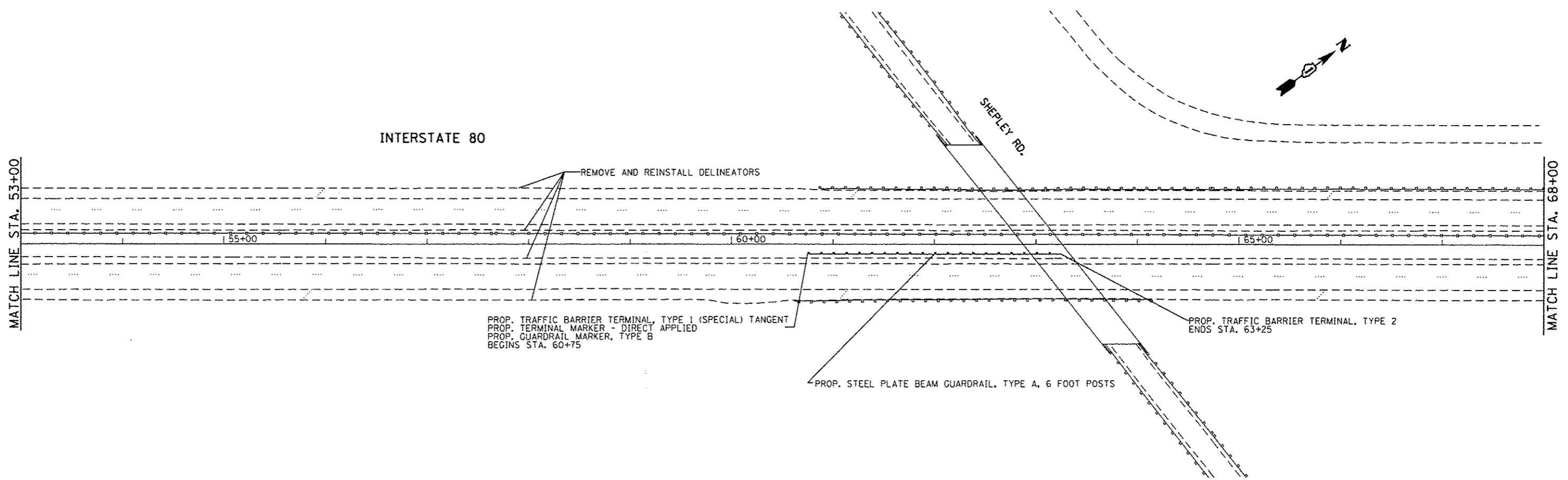
NOTE:
 REMOVE AND REINSTALL DELINEATORS ACCORDING TO STANDARD 635001.
 EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.



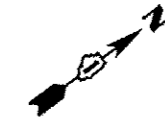
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c:\pvc_work\pvcidot\pencepl\d0367985\011134-shs-plan.dgn	DRAWN -	REVISED -	80			2013-0711	WILL	19	4	
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 60X48			ILLINOIS FED. AID PROJECT	
	PLOT DATE = 1/31/2014	DATE -	REVISED -			SCALE:	SHEET 1 OF 13 SHEETS	STA. 10+00 TO STA. 38+00		



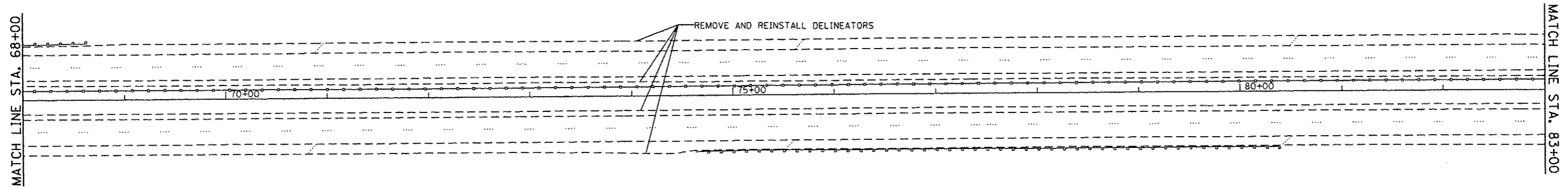
NOTE:
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 EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.



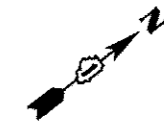
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Default	PLOT DATE = 1/31/2014	DATE -	REVISED -							



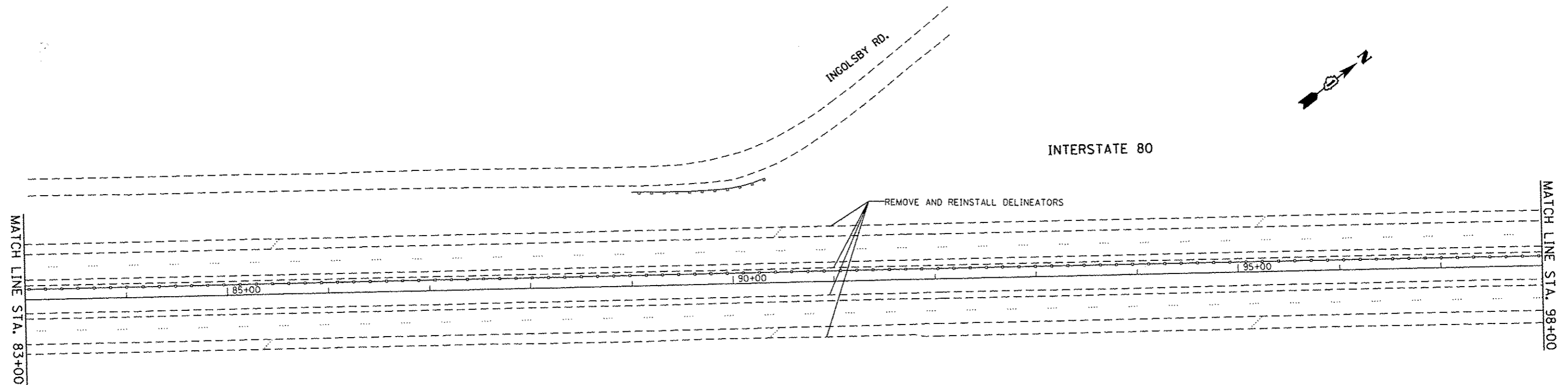
INTERSTATE 80



NOTE:
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 EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

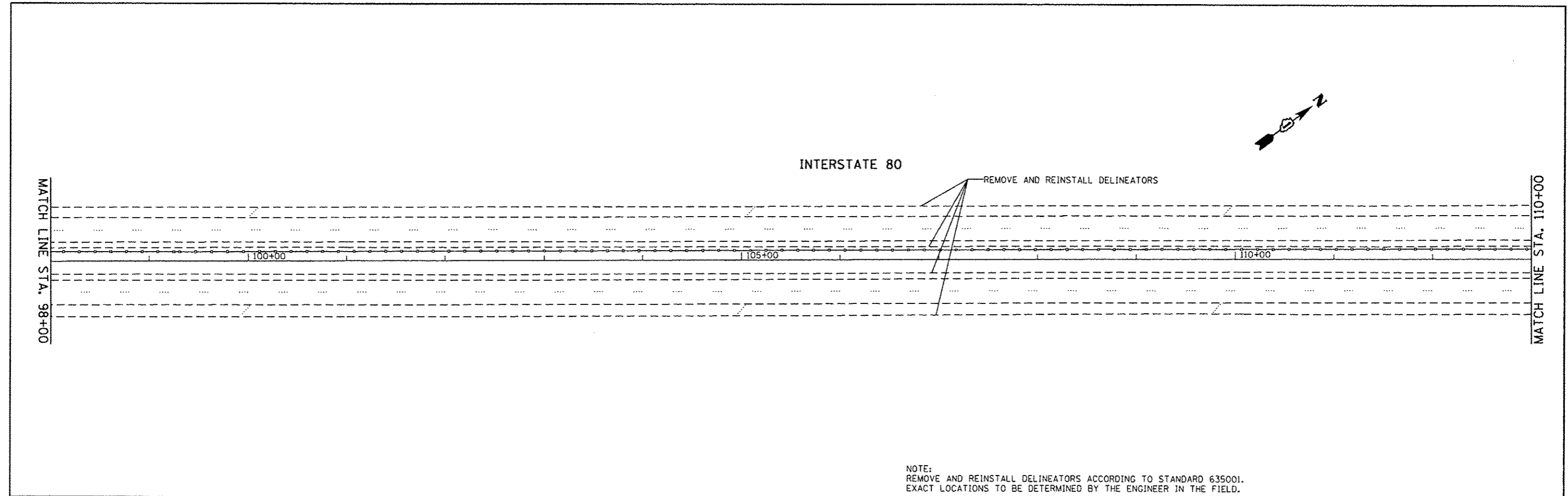


INTERSTATE 80

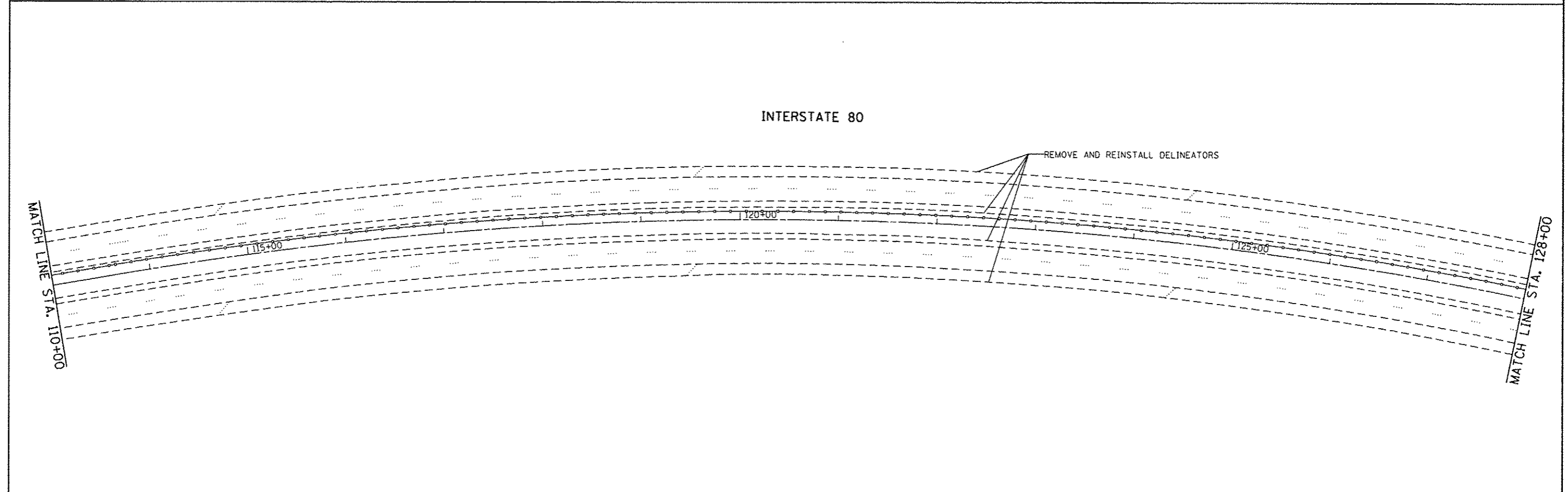


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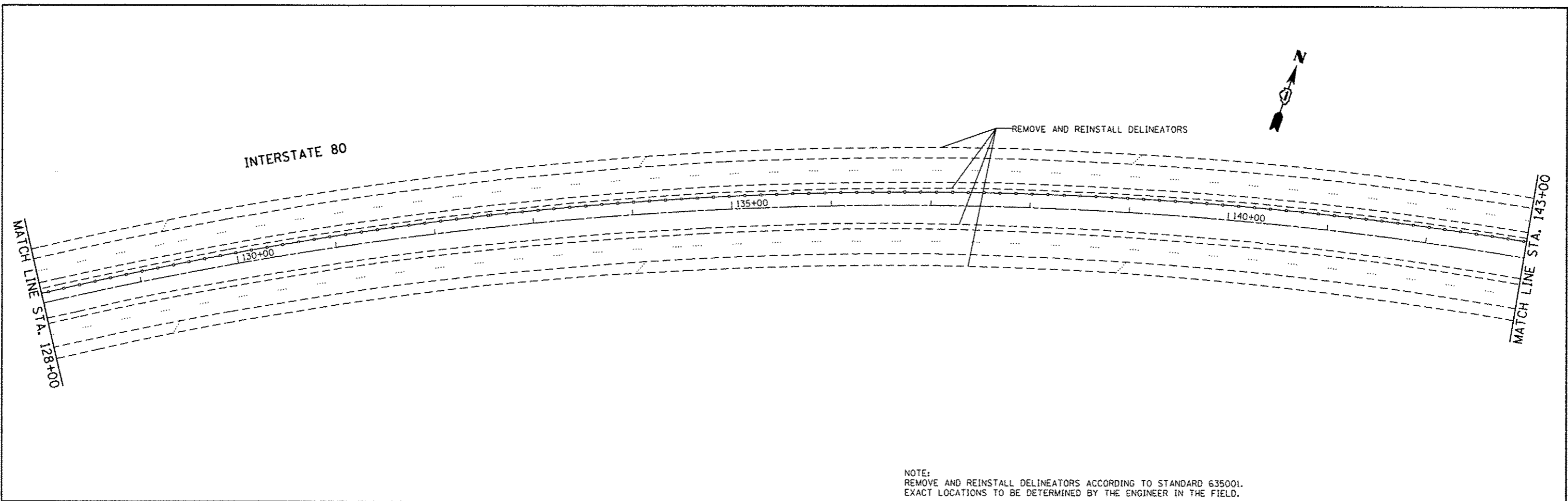
SCALE: SHEET 3 OF 13 SHEETS STA. 68+00 TO STA. 98+00



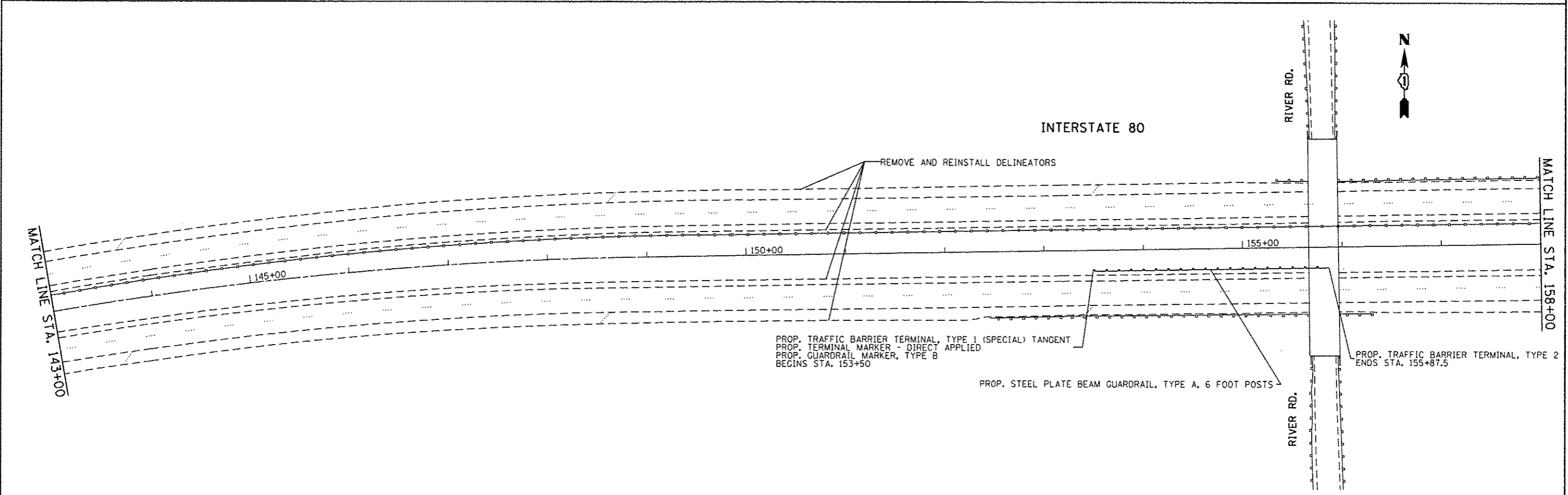
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 EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.



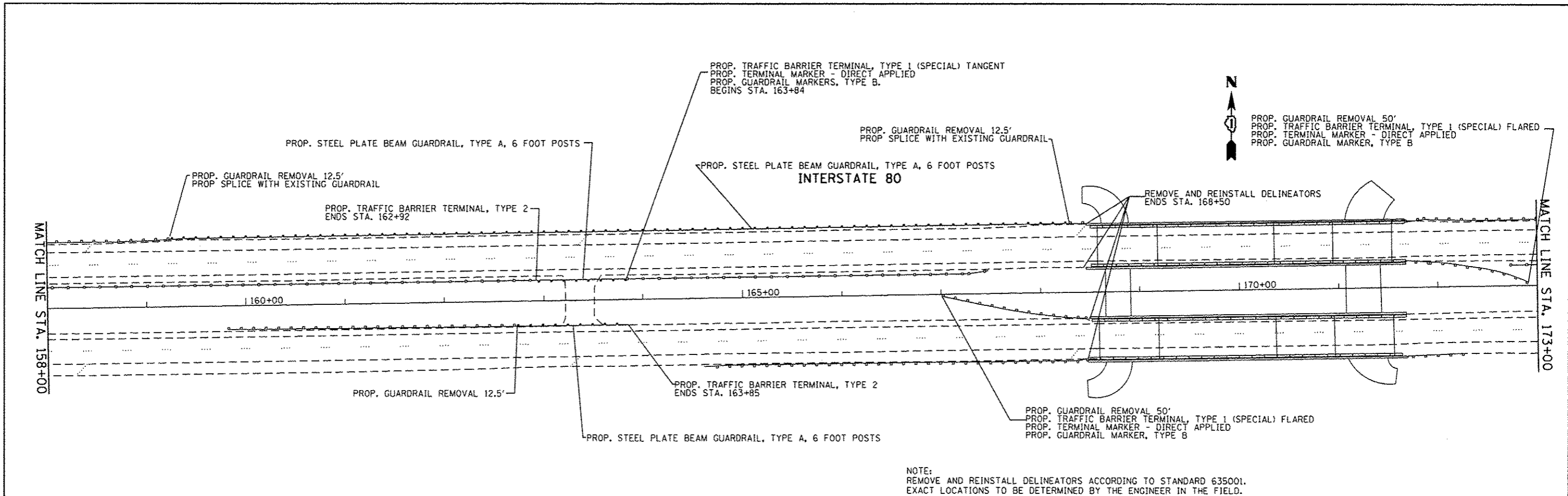
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		DATE -	REVISED -									



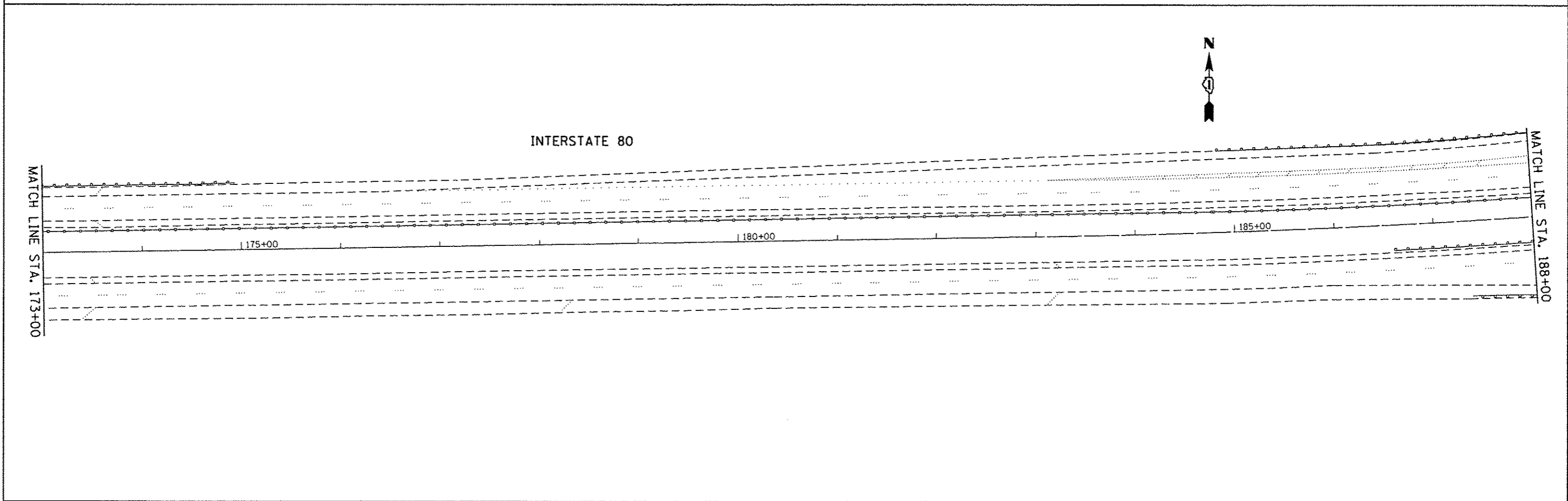
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 EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.



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	PLOT DATE = 1/31/2014	DATE -	REVISED -		ILLINOIS FED. AID PROJECT						



NOTE:
 REMOVE AND REINSTALL DELINEATORS ACCORDING TO STANDARD 635001.
 EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.



FILE NAME =	USER NAME = PancePL	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	I-80 (GRUNDY COUNTY LINE TO HOUBOLT ROAD) ROADWAY PLAN	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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		DATE -	REVISED -			SCALE:	SHEET 6 OF 13 SHEETS	STA. 158+00 TO STA. 188+00	ILLINOIS FED. AID PROJECT		



SW FRONTAGE RD.

PROP. GUARDRAIL REMOVAL 50'
 PROP. TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED
 PROP. TERMINAL MARKER - DIRECT APPLIED
 PROP. GUARDRAIL MARKER, TYPE B

INTERSTATE 80

MATCH LINE STA. 188+00

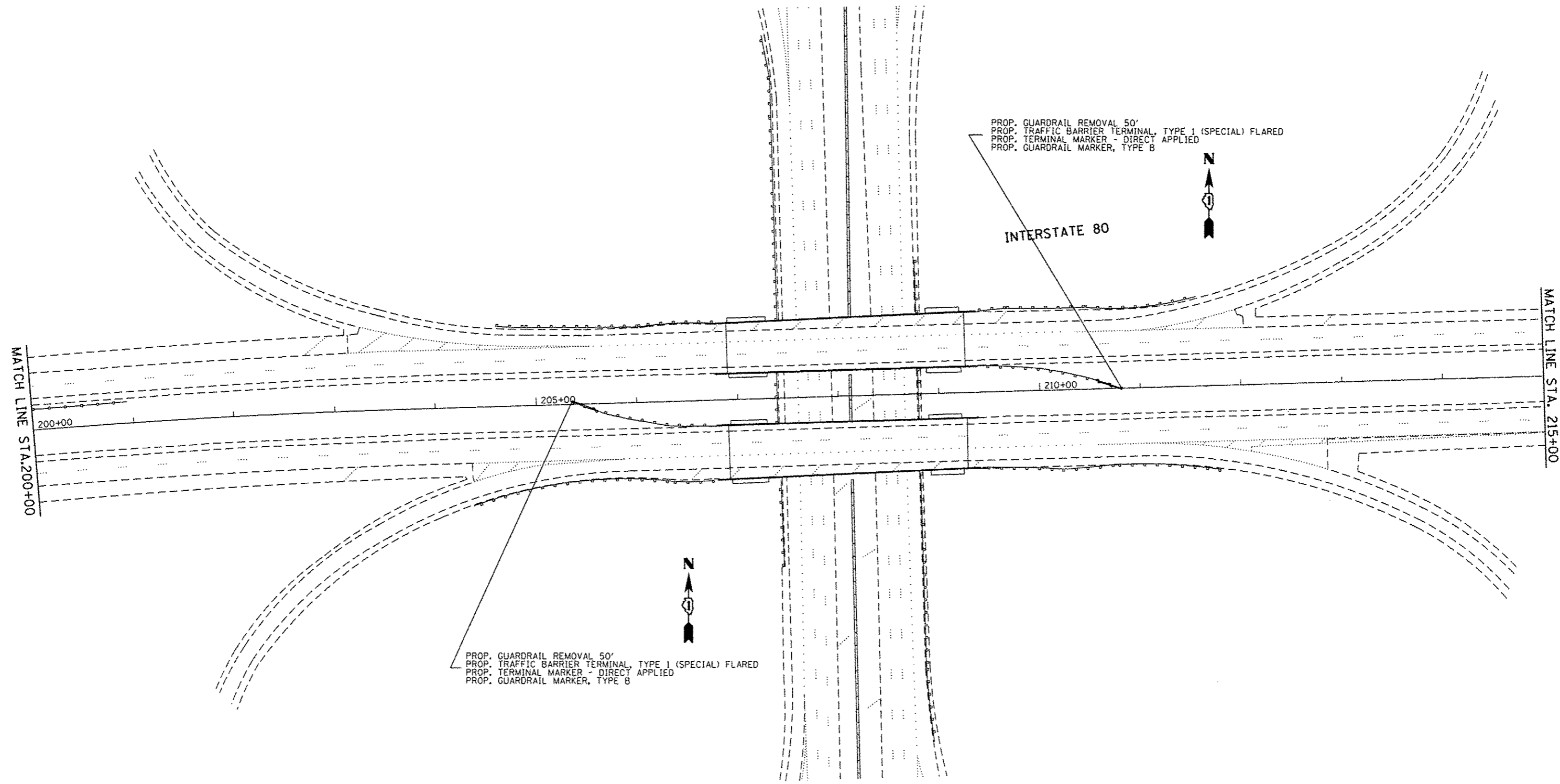
MATCH LINE STA. 200+00

190+00

195+00

SW FRONTAGE RD.

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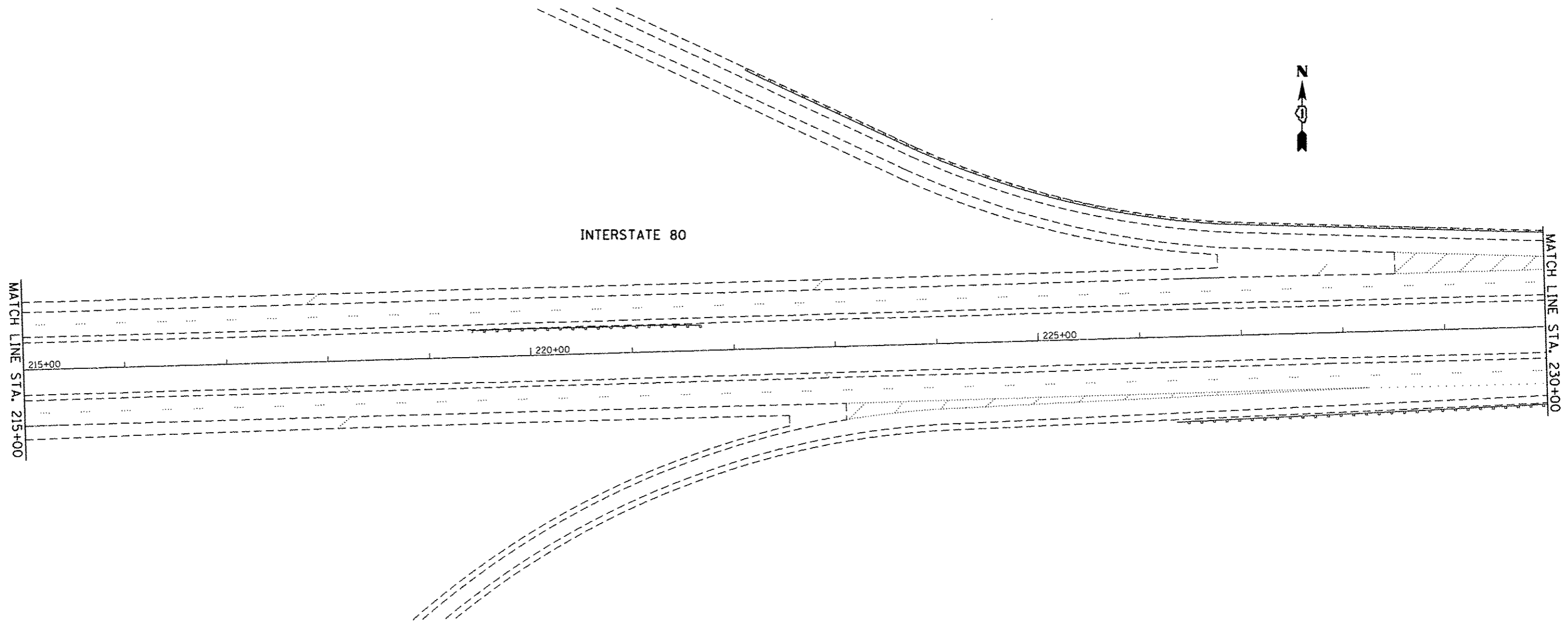


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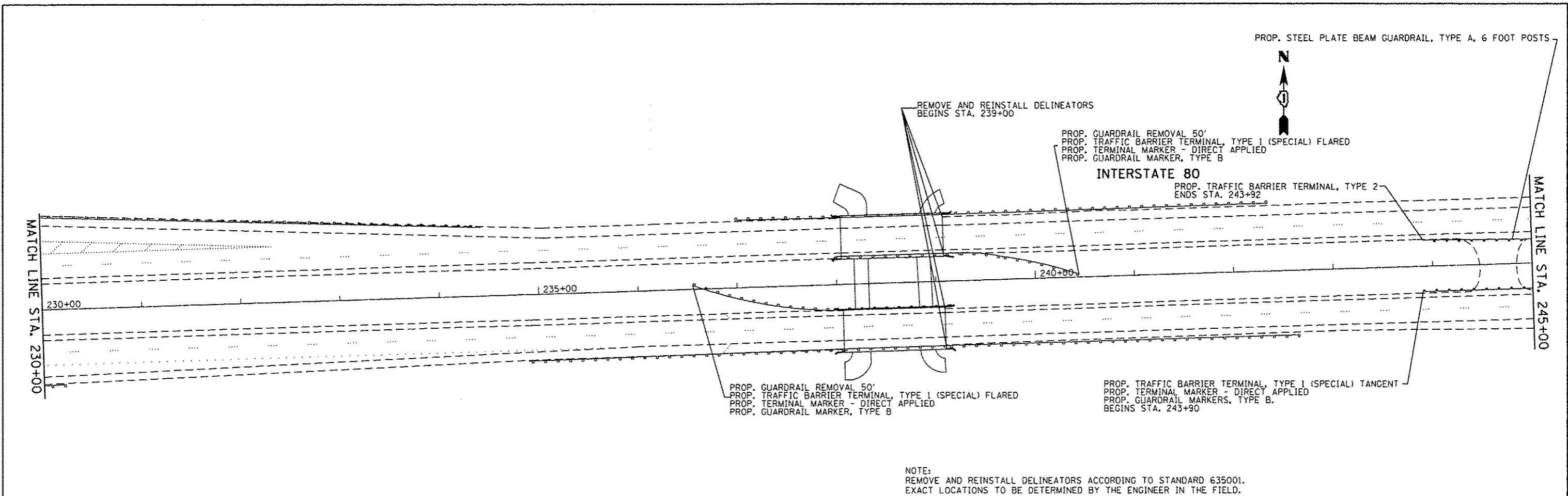
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

I-80 (GRUNDY COUNTY LINE TO HOUBOLT ROAD)		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ROADWAY PLAN		80	2013-0711	WILL	19	11
SCALE:	SHEET 8 OF 13 SHEETS	STA. 200+00 TO STA. 215+00		ILLINOIS FED. AID PROJECT		

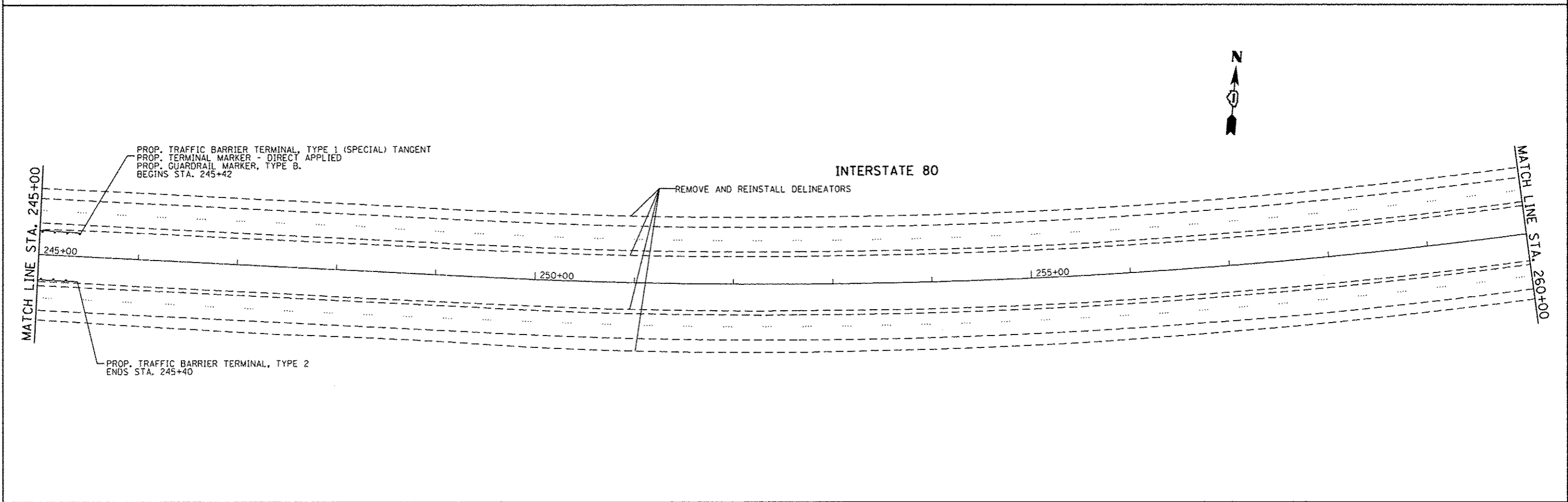
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2013-0711	WILL	19	11
CONTRACT NO. 60X48				



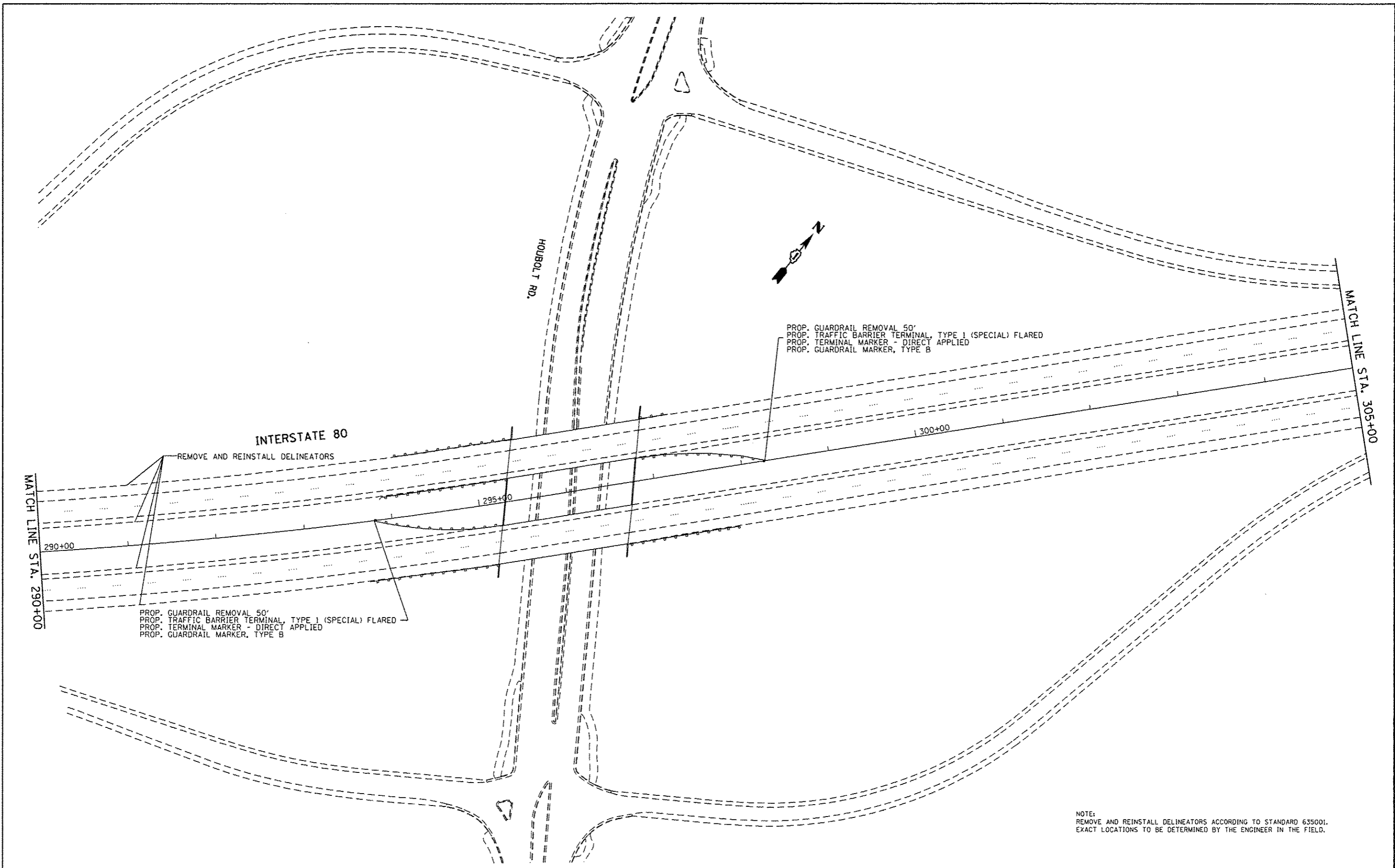
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	PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -			80	2013-0711	WILL	19	12
Default	PLOT DATE = 1/31/2014	DATE -	REVISED -		SCALE:	SHEET 9 OF 13 SHEETS	STA. 215+00 TO STA. 230+00	CONTRACT NO. 60X48 ILLINOIS FED. AID PROJECT		



NOTE:
 REMOVE AND REINSTALL DELINEATORS ACCORDING TO STANDARD 635001.
 EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

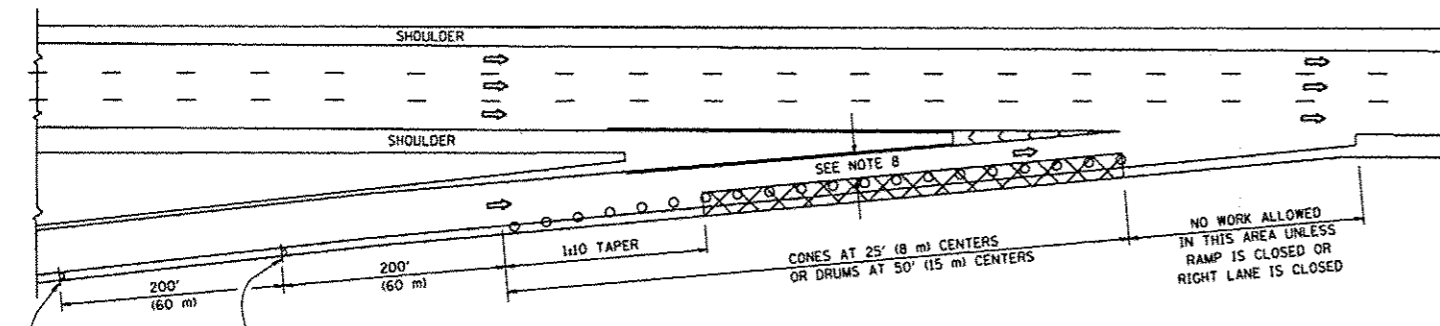


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Default	PLOT DATE = 1/31/2014	CHECKED -	REVISED -			SCALE: SHEET 10 OF 13 SHEETS STA. 230+00 TO STA. 260+00		CONTRACT NO. 60X48			
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

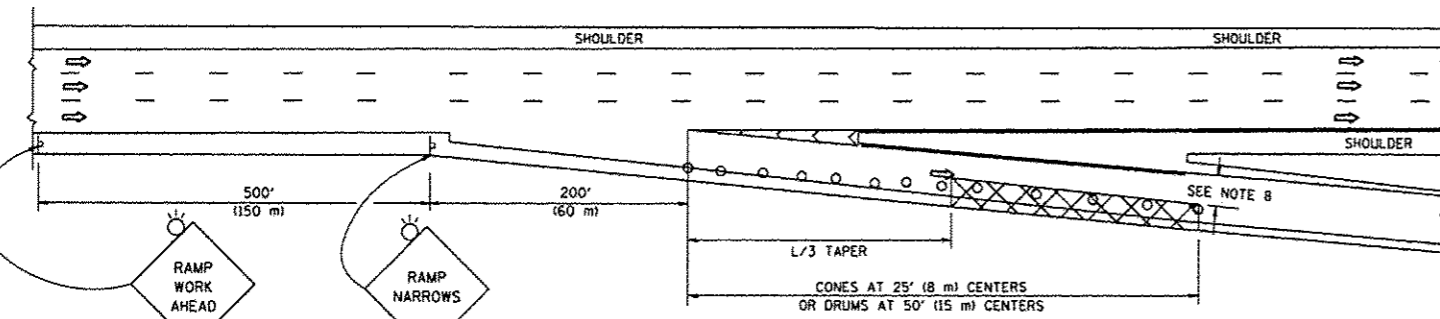


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Default	PLOT DATE = 1/31/2014	DATE -	REVISED -							

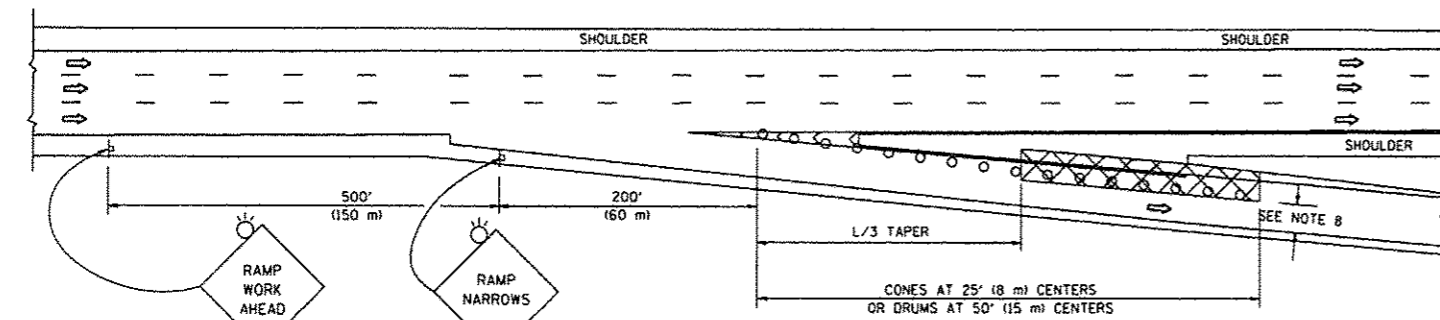
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

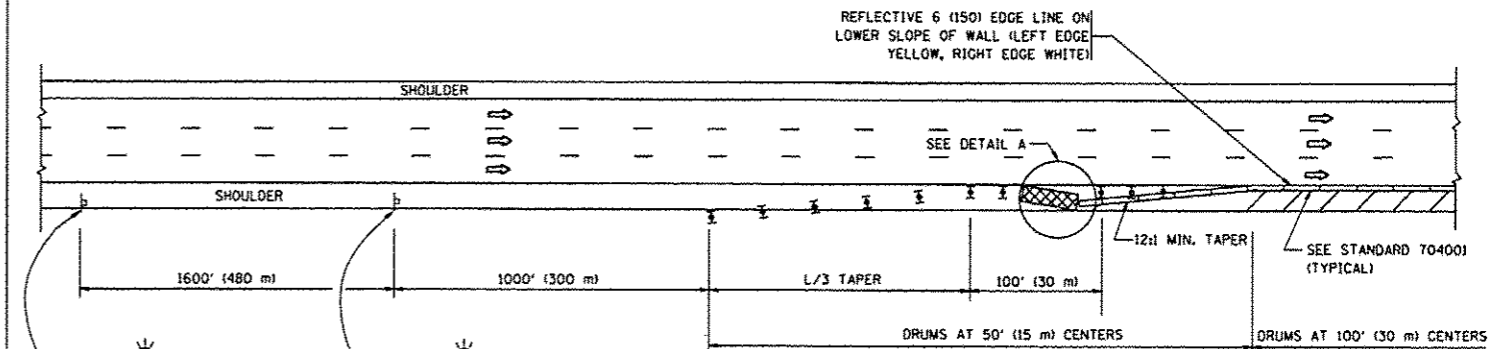
- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

GENERAL NOTES

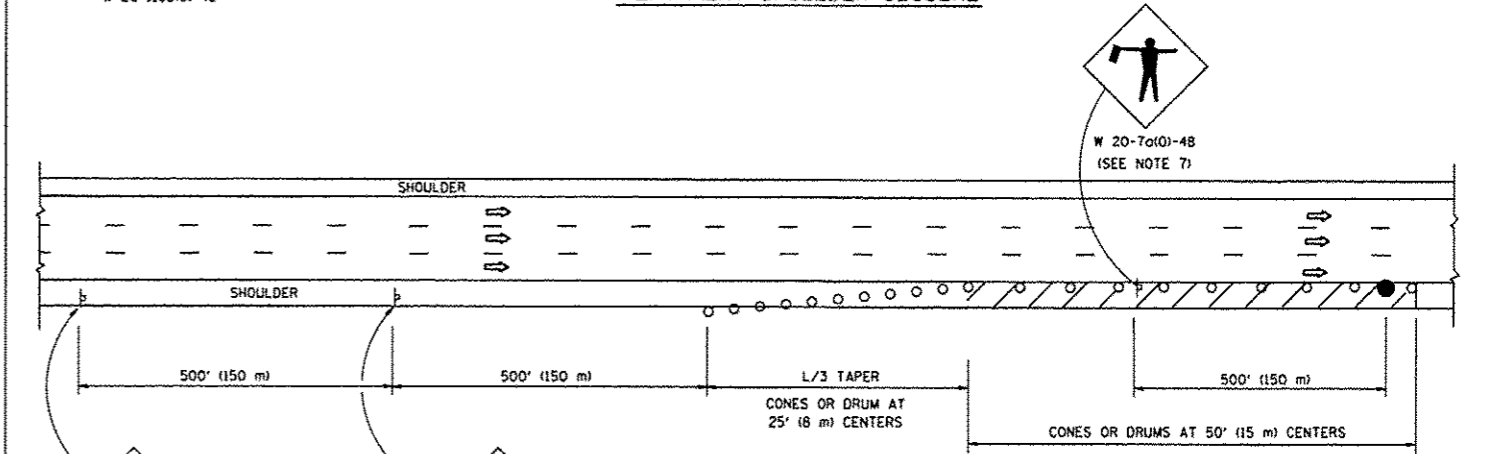
1. THE "L" DISTANCE EQUALS:

SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER:	METRIC ENGLISH $L = 0.65(WXS)$ $L = (WXS)$
W = WIDTH OF OFFSET IN FEET (METERS)	
S = NORMAL POSTED SPEED MPH (KM/H)	
2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

SHOULDER CLOSURE DETAILS



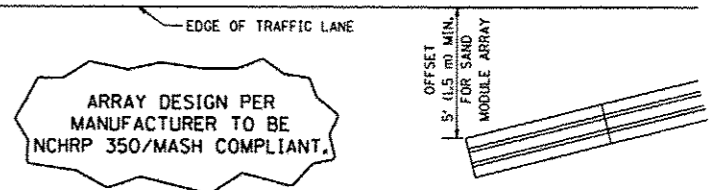
PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

THIS DETAIL IS USED WHERE:

1. 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)

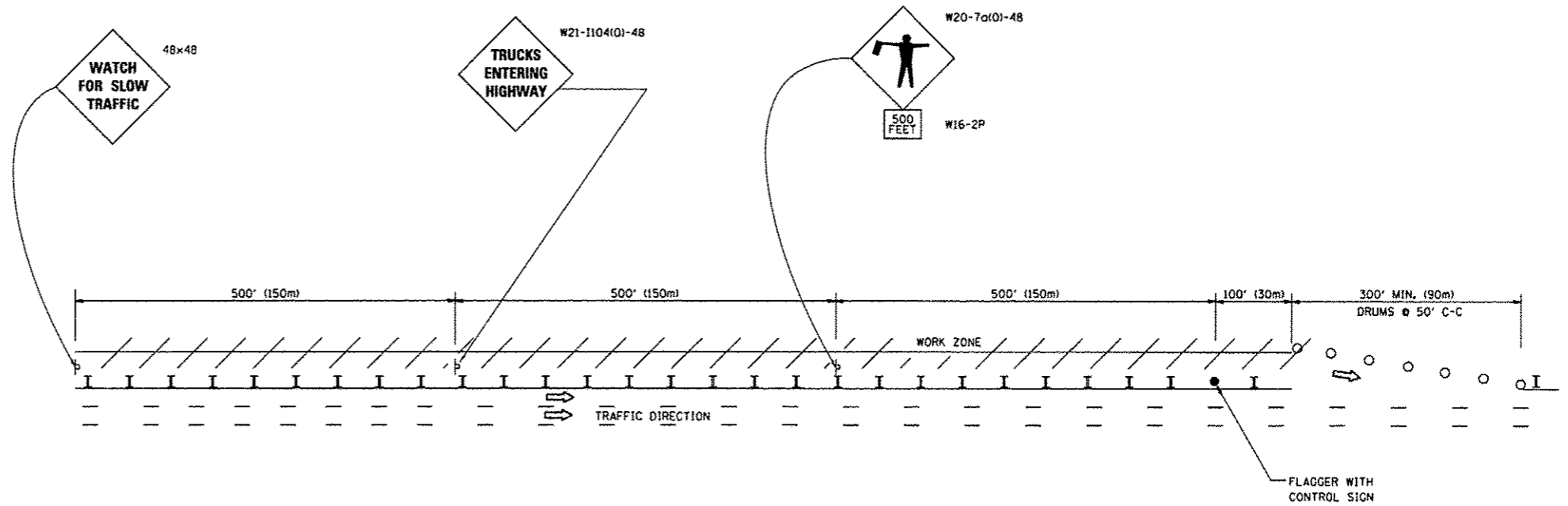
5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. 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 AVTIVITY 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.
8. 12" MIN. WIDTH TANGENT SECTION
16" MIN. WIDTH CURVE SECTION.

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

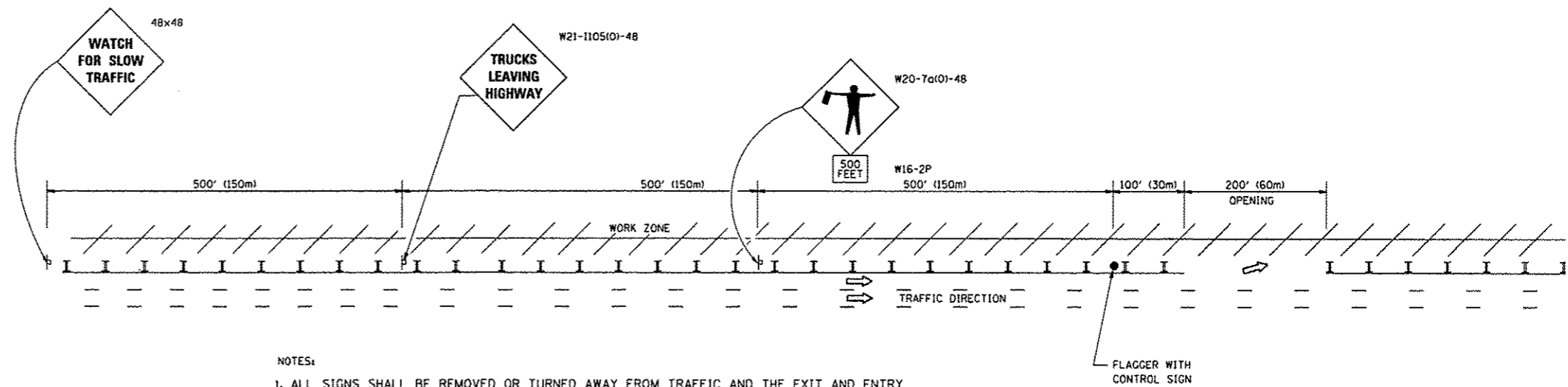
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PLOT SCALE = 100.0000' / in.					DRAWN - D.W.S.	REVISED - S.P.B. 12-09	TC-17		CONTRACT NO. 60X48			
PLOT DATE = 1/31/2014					CHECKED -	REVISED - M.D. 06-13	SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA. TO STA.	

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



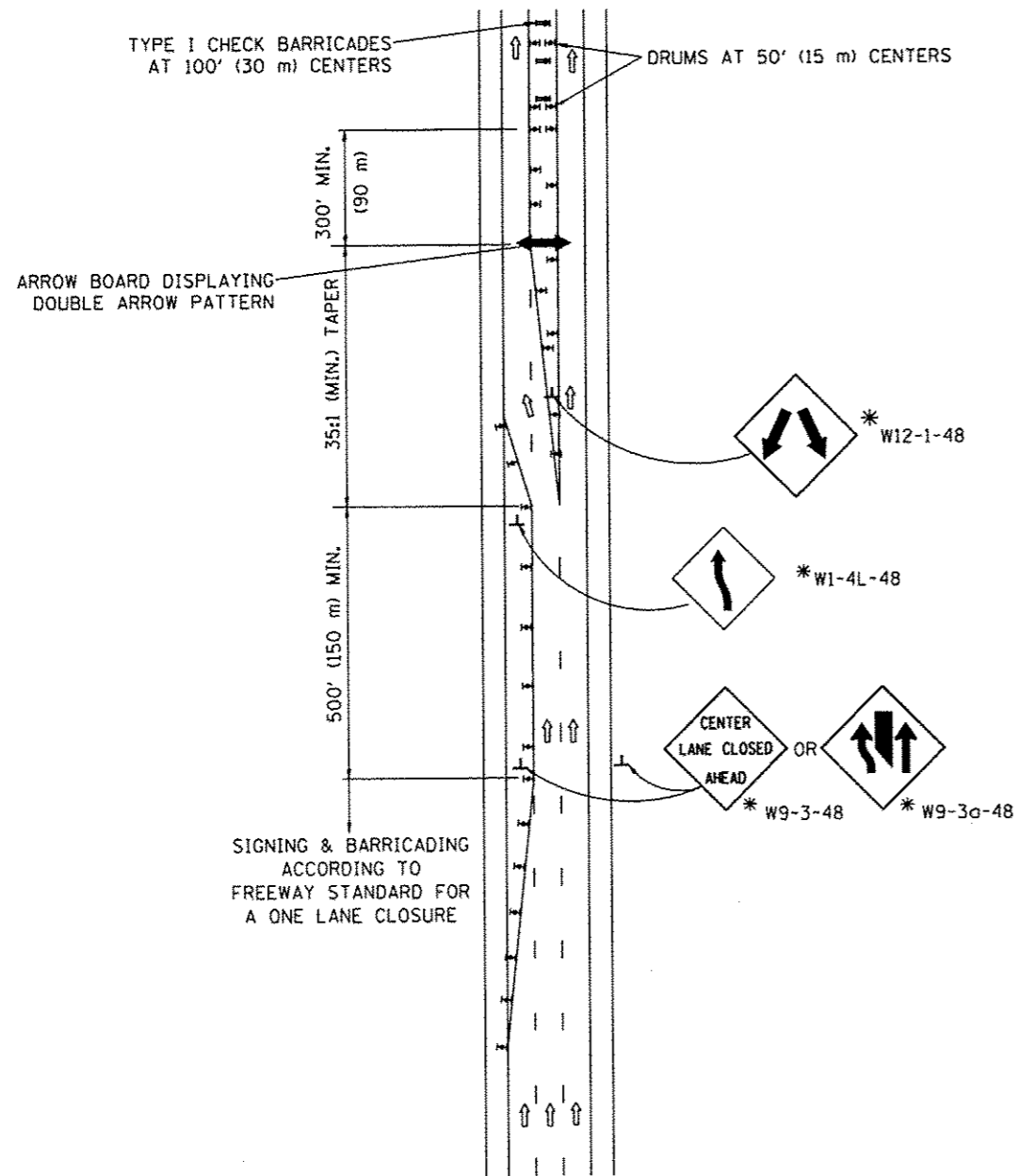
NOTES:

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.

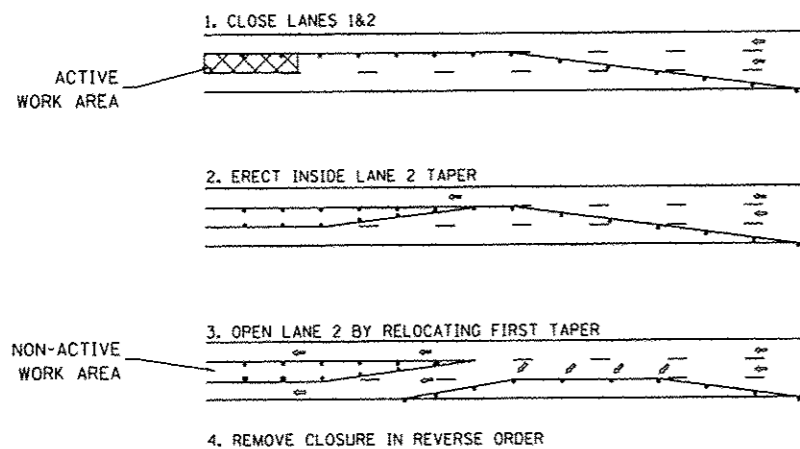
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME : c:\pwwork\pdat\pncepl\d0367985\d0367985.dgn	USER NAME : PancePL	DESIGNED -	REVISED - J.A.F. 02-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FREEWAY/EXPRESSWAY SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS ON FREEWAYS/EXPRESSWAYS	F.A.I. RTE. 80	SECTION 2013-0711	COUNTY WILL	TOTAL SHEETS 19	SHEET NO. 18	
PLOT SCALE = 1/31/2014	DRAWN -	REVISED - S.P.B. 01-07	SCALE: NONE			SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			
PLOT DATE = 1/31/2014	CHECKED -	REVISED - S.P.B. 12-09									
	DATE -	REVISED - M.D. 06-13									
CONTRACT NO. 60X48											

CENTER LANE CLOSURE



INSTALLATION SEQUENCE

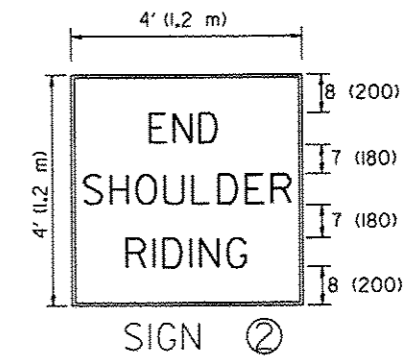
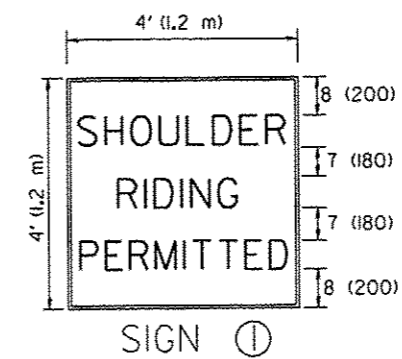
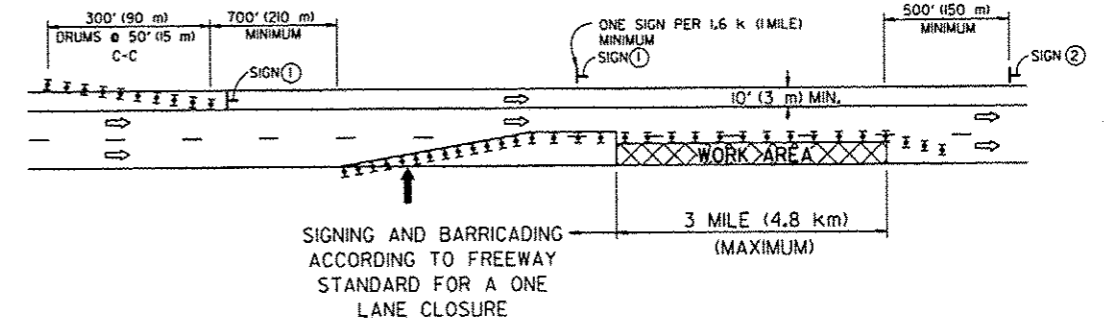
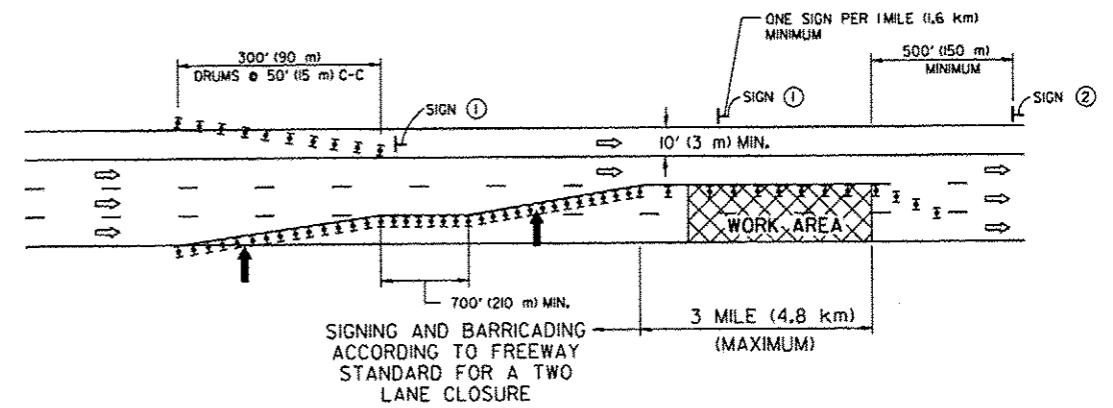


NOTES

1. DRUMS WITH STEADY BURN LIGHTS SHALL BE USED AT 50' (15 m) CENTERS ON ALL TAPERS AND TANGENTS IN ADVANCE OF WORK AREA.
2. CLOSURE SHALL BE USED ONLY FOR OPERATIONS LASTING 72 HOURS OR LESS.
3. CENTER LANE CLOSURE CONFIGURATION IS NOT TO BE USED WITH WORKERS PRESENT.

SHOULDER LANE

NOTE: CLOSURE SHALL BE USED ONLY FOR OPERATIONS LASTING 72 HOURS OR LESS.



6 (150) SERIES "C" LEGEND
BLACK LEGEND
WHITE REFLECT. BACKGROUND
1 (25) BORDER

SYMBOLS

- ↑ DIRECTION OF TRAFFIC
- ➔ ARROWBOARD
- ▣ ACTIVE WORK AREA
- ⊥ SIGN ON PORTABLE OR PERMANENT SUPPORT *
- ⊥ TYPE II BARRICADE, OR DRUM WITH MONO-DIRECTIONAL STEADY BURN LIGHT

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

* ALL SIGNS SHALL BE MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).

FILE NAME: c:\p\work\p\idot\pencepl\d0367985\d0367985.dgn	USER NAME: PencePL	DESIGNED: -	REVISED: - J.A.F. 04-03
		DRAWN: -	REVISED: - S.P.B. 01-07
		CHECKED: -	REVISED: - S.P.B. 12-09
		DATE: -	REVISED: -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY
CENTER LANE CLOSURE SHOULDER LANE

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.T. RTE. 80	SECTION 2013-0711	COUNTY WILL	TOTAL SHEETS 19	SHEET NO. 19
TC-25			CONTRACT NO. 60X48	
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				