

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

ROUTE: VARIOUS LOCATIONS
SECTION: 2009-090 GRR
VARIOUS LOCATIONS IN NORTHERN WILL COUNTY
GUARDRAIL REPLACEMENTS
PROJECT: ACHSIP-000S(698)
WILL COUNTY
C-91-038-10

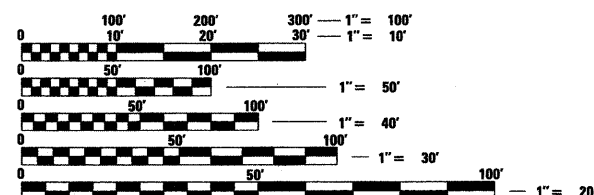
FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE PROJECT IS LOCATED IN THE
CITIES OF JOLIET AND LOCKPORT
AND IN THE VILLAGES OF HOMER
GLEN, NEW LENOX AND PLAINFIELD

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	2009-090 GRR	WILL	17	1
		ILLINOIS	CONTRACT NO. 60143	

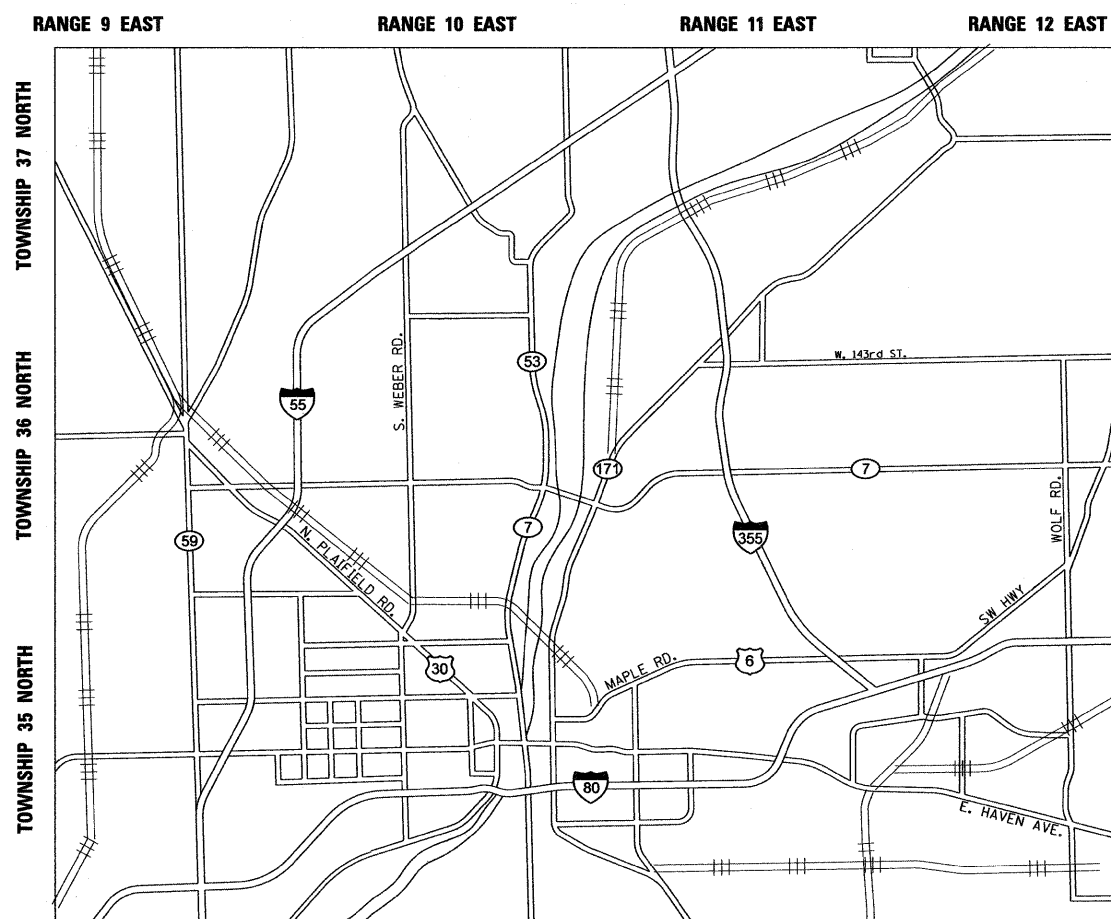
• VARIOUS

D-91-038-10



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



WHEATLAND, DUPAGE, PLAINFIELD, LOCKPORT, HOMER, TROY, JOLIET, NEW LENOX AND FRANKFORT TOWNSHIPS

Peter M. Johnston
12-15-09
PETER M. JOHNSTON
062-047647
REGISTERED
PROFESSIONAL
ENGINEER
OF
ILLINOIS
Exp. 11-30-11

PROJECT ENGINEER: PETER JOHNSTON (GRAEF) 773-399-0012
PROJECT MANAGER: KEN ENG (IDOT) 847-705-4247

CONTRACT NO. 60143

GRAEF 8501 W. Higgins Road, Suite 280
Chicago, Illinois 60631
(773) 399-0112

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED DECEMBER 15, 2009

Diane M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

January 29, 2010
Scott E. Stief P.E. RD
ENGINEER OF DESIGN AND ENVIRONMENT

January 29, 2010
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
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6-15	ROADWAY PLAN
16	DETAILS FOR DEPRESSED CURB AND GUTTER AND SHOULDER TREATMENT AT TBT TY 1 SPL (BD34)
17	ARTERIAL ROAD INFORMATION SIGNING (TC22)

HIGHWAY STANDARDS

STD. NO.	TITLE
630001-08	STEEL PLATE BEAM GUARDRAIL
630101-08	GUARDRAIL MOUNTED ON EXISTING CULVERTS
630201-06	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-05	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631011-06	TRAFFIC BARRIER TERMINAL TYPE 2
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
701006-03	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701326-03	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH
701422-02	LANE CLOSURE, MULTILANE, FOR SPEEDS ≥ 45 MPH TO 55 MPH
701901-01	TRAFFIC CONTROL DEVICES

GENERAL NOTES

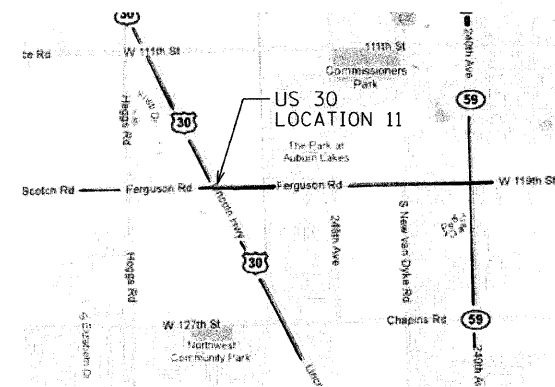
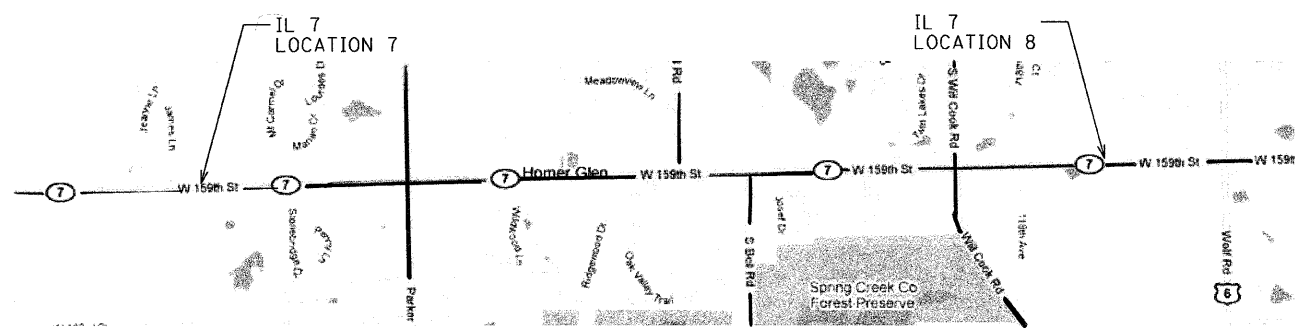
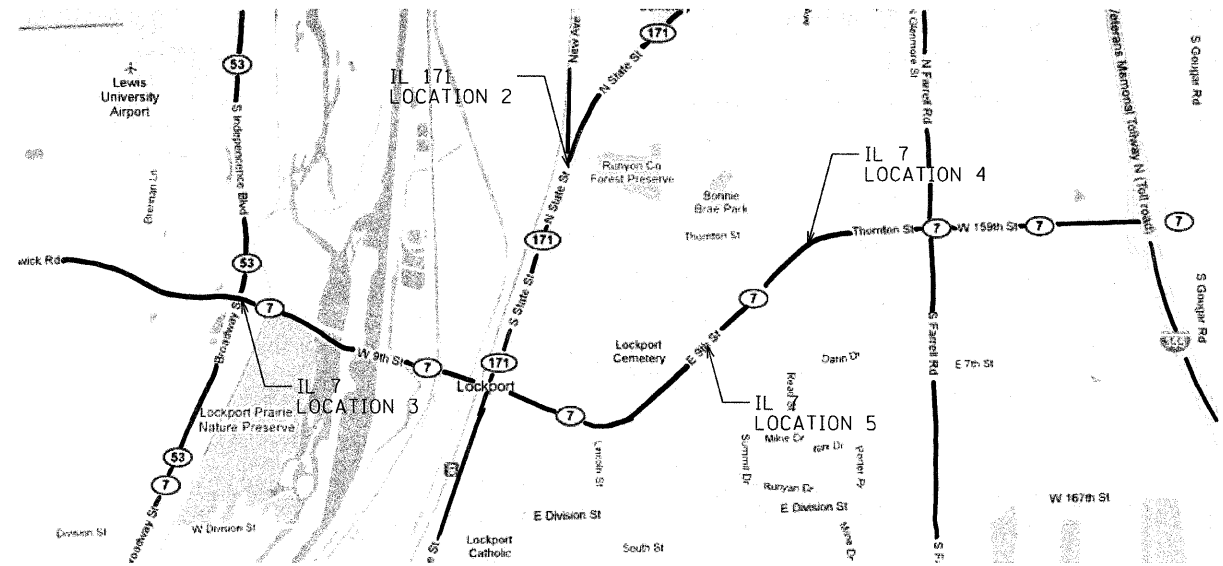
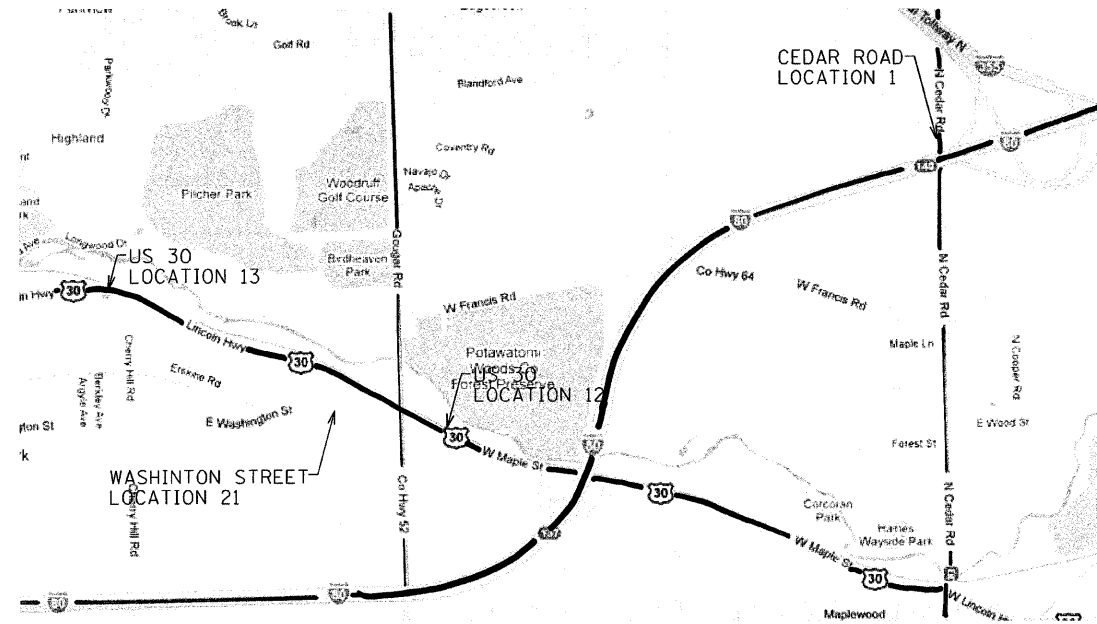
- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT 800-892-0123 OR "CUAN" (CHICAGO UTILITY ALERT NETWORK), 312-744-7000 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES (48 HOUR NOTIFICATION IS REQUIRED).
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND LOCAL AGENCIES.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- BARRICADES: THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SANDBAGS ON EACH TYPE I OR TYPE II BARRICADE USED - ONE (1) WEIGHTED SANDBAG ACROSS EACH BOTTOM RAIL.
- THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.
- WHEN GUARDRAIL POSTS ARE PLACED BEHIND CONCRETE HEADWALLS, THE POSTS SHALL NOT BE PLACED TO BLOCK THE DRAINAGE OPENING.

SUMMARY OF QUANTITIES

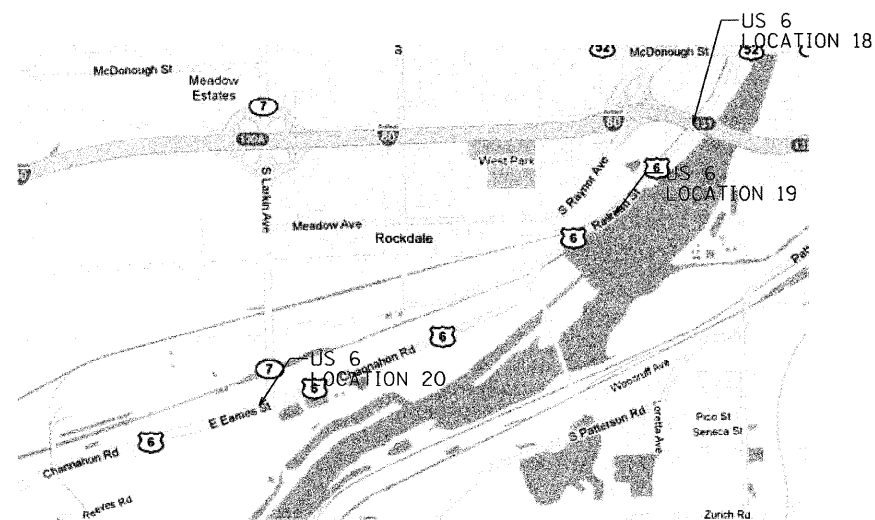
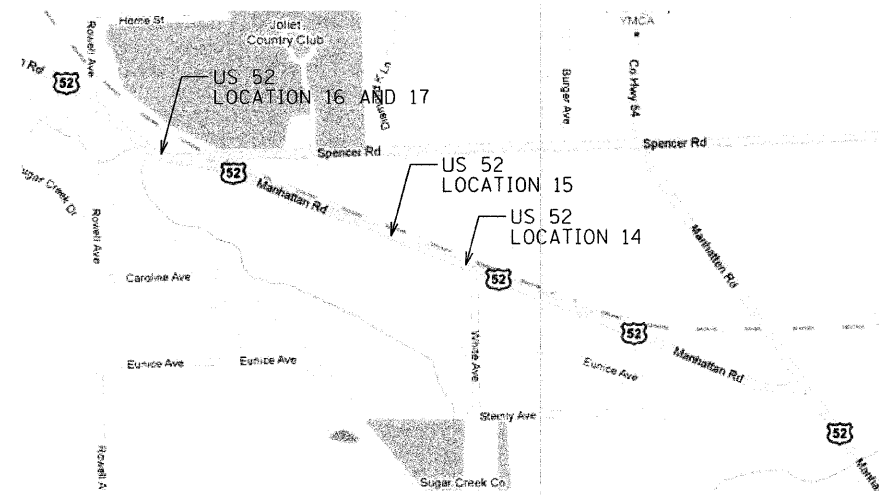
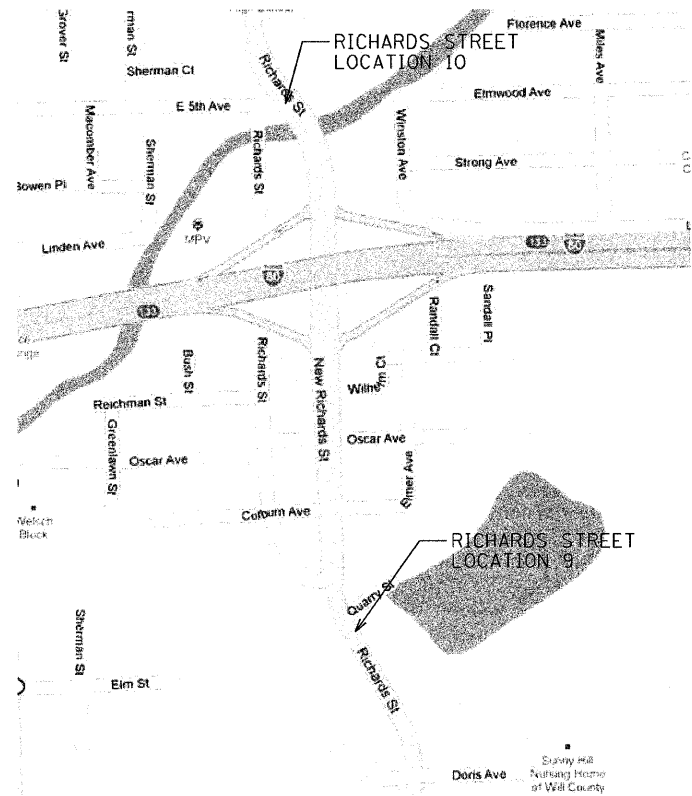
90% FED. / 10% STATE

PAY ITEM NUMBER	DESCRIPTION	UNIT	URBAN TOTAL QUANTITY	SFTY-3J GUARDRAIL
20201006	GRADING AND SHAPING EXISTING SHOULDERS	UNIT	48	48
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	2,694	2,694
63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	675	675
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	57	57
63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1	1
63200310	GUARDRAIL REMOVAL	FOOT	3,128	3,128
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6
67100100	MOBILIZATION	L SUM	1	1
70100315	TRAFFIC CONTROL AND PROTECTION, STANDARD 701422	EACH	1	1
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1
78200405	GUARDRAIL MARKERS	EACH	7	7
78201000	TERMINAL MARKER-DIRECT APPLIED	EACH	57	57
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	514	514
X0325917	TURF ESTABLISHMENT	SQ YD	1,974	1,974
NP X2503100	MOWING	UNIT	196	196

* DENOTES SPECIALTY ITEM
NP = Non-participating



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	PLOT DATE = 12/11/2009	CHECKED -	REVISED -					CONTRACT NO. 60143		ILLINOIS FED. AID PROJECT			
		DATE -	REVISED -					SCALE: NTS	SHEET NO. 1	OF 2 SHEETS	STA.	TO STA.	



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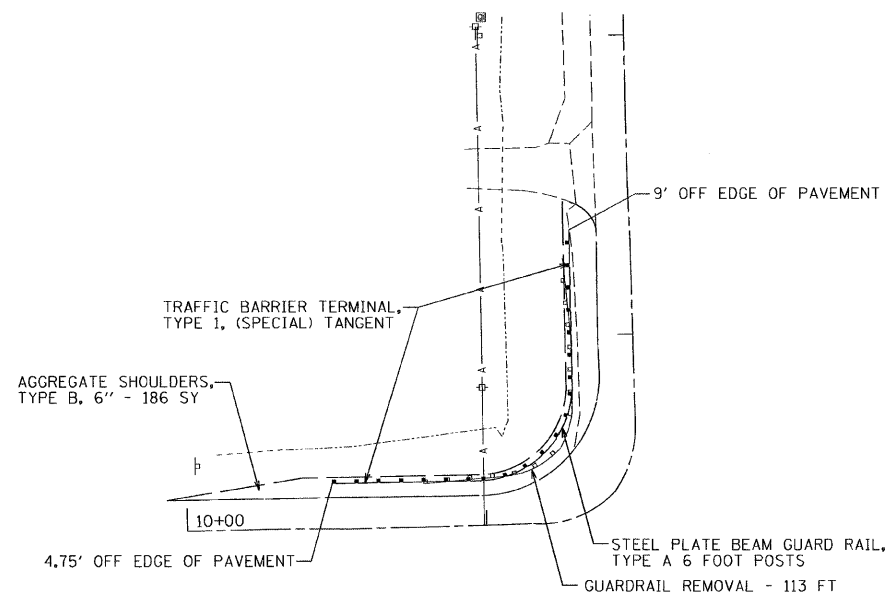
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

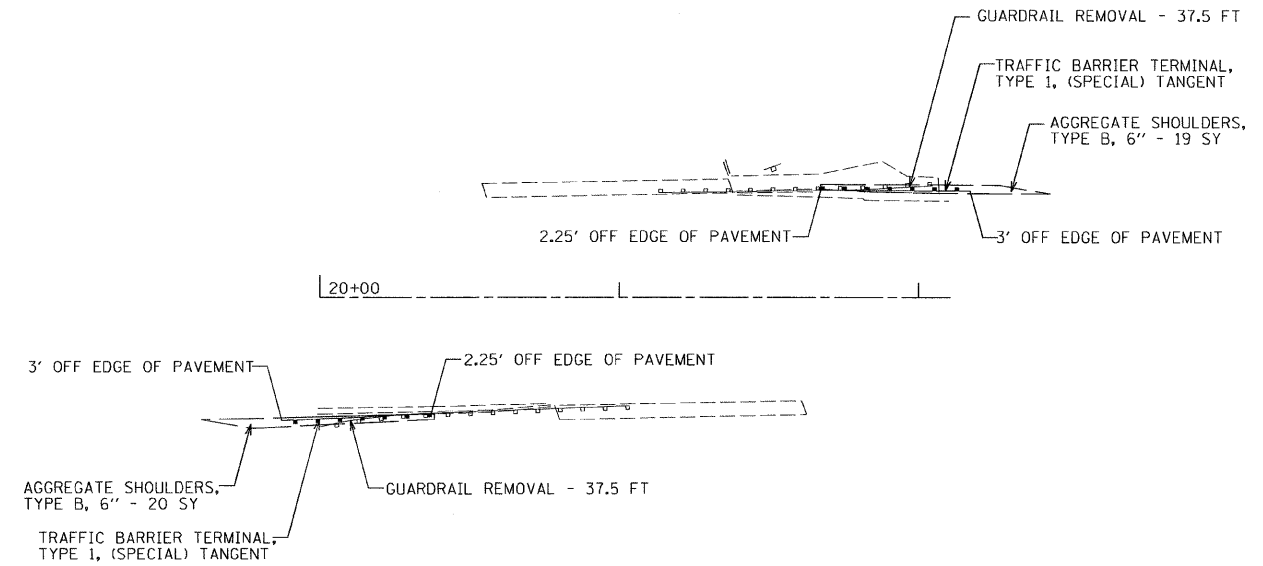
**GUARDRAIL IMPROVEMENTS - NORTHERN WILL COUNTY
LOCATION MAP**

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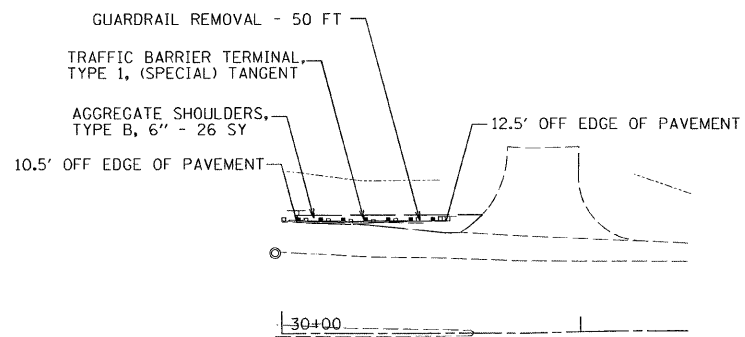
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•	2009-090GRR	WILL	17	5
•	VARIOUS		CONTRACT NO. 60143	
ILLINOIS FED. AID PROJECT				



CEDAR ROAD
LOCATION 1



IL 171
LOCATION 2



IL 7
LOCATION 3



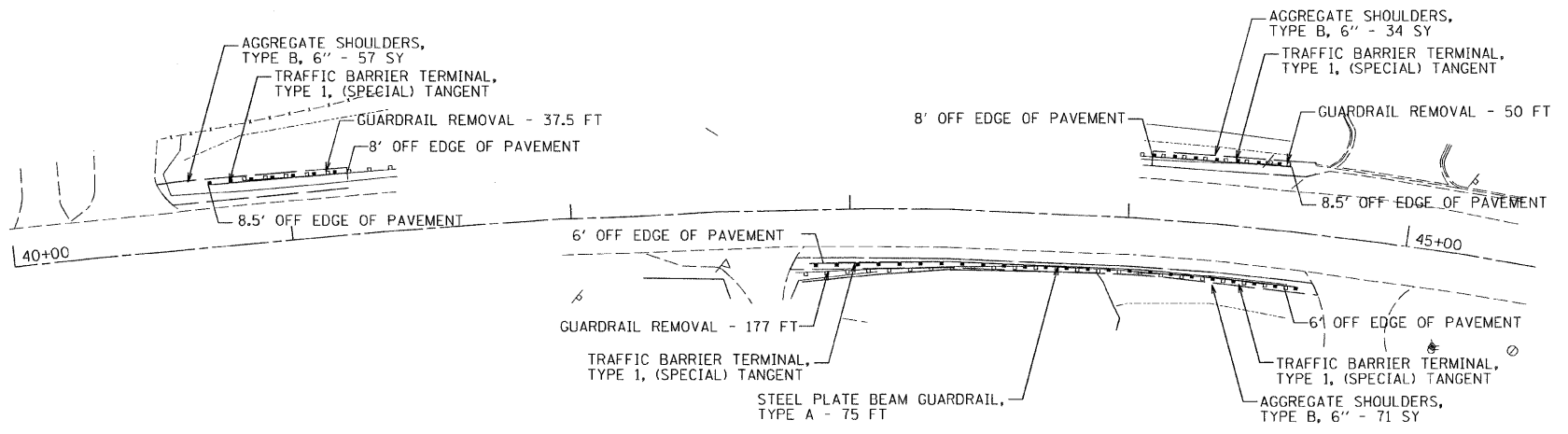
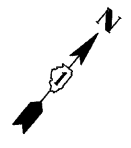
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL IMPROVEMENTS - NORTHERN WILL COUNTY
ROADWAY PLANS

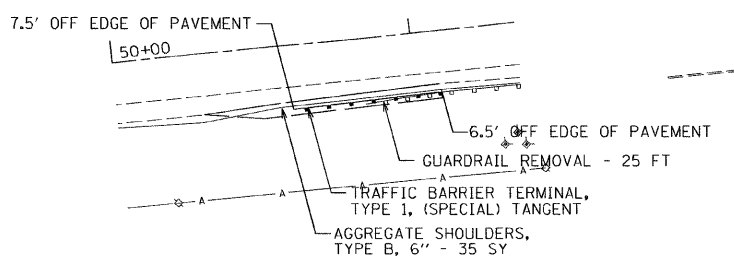
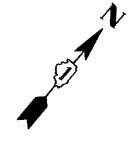
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			CONTRACT NO. 60143	
ILLINOIS FED. AID PROJECT				



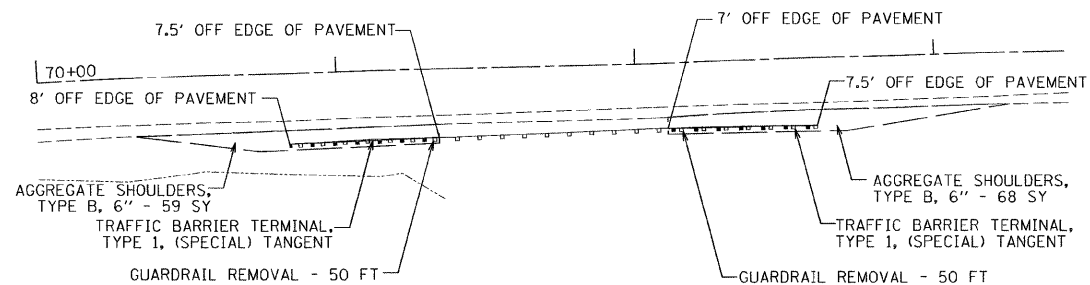
IL 7
LOCATION 4

NOTE:
USE 9' GUARDRAIL POSTS AND
LOCATE AT TOP OF SLOPE

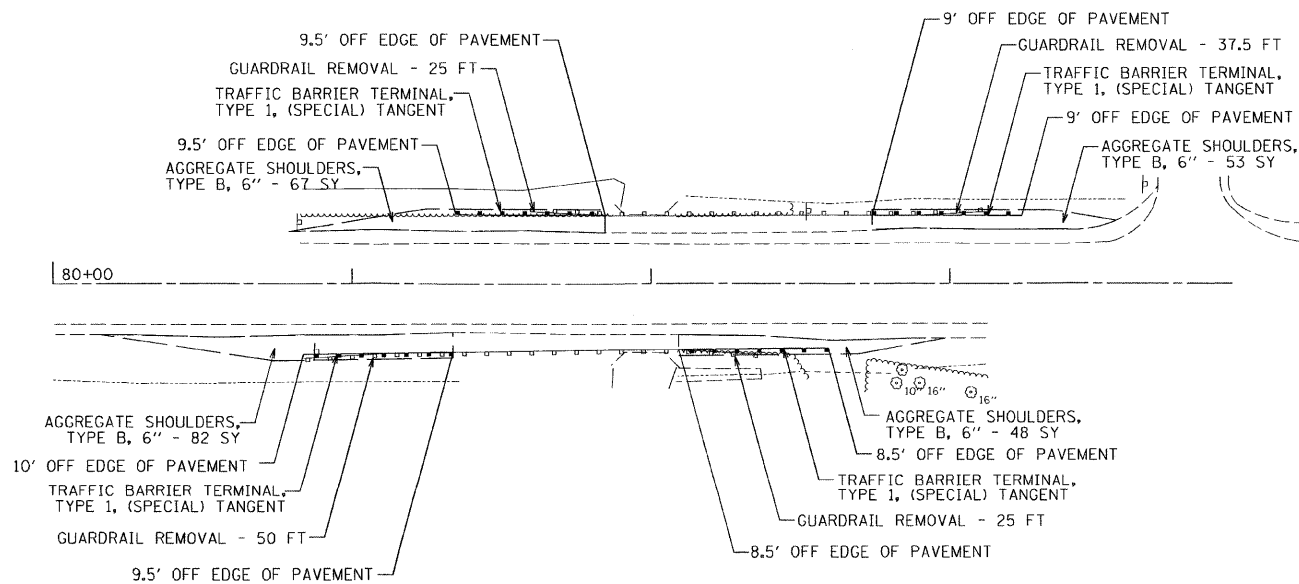


IL 7
LOCATION 5

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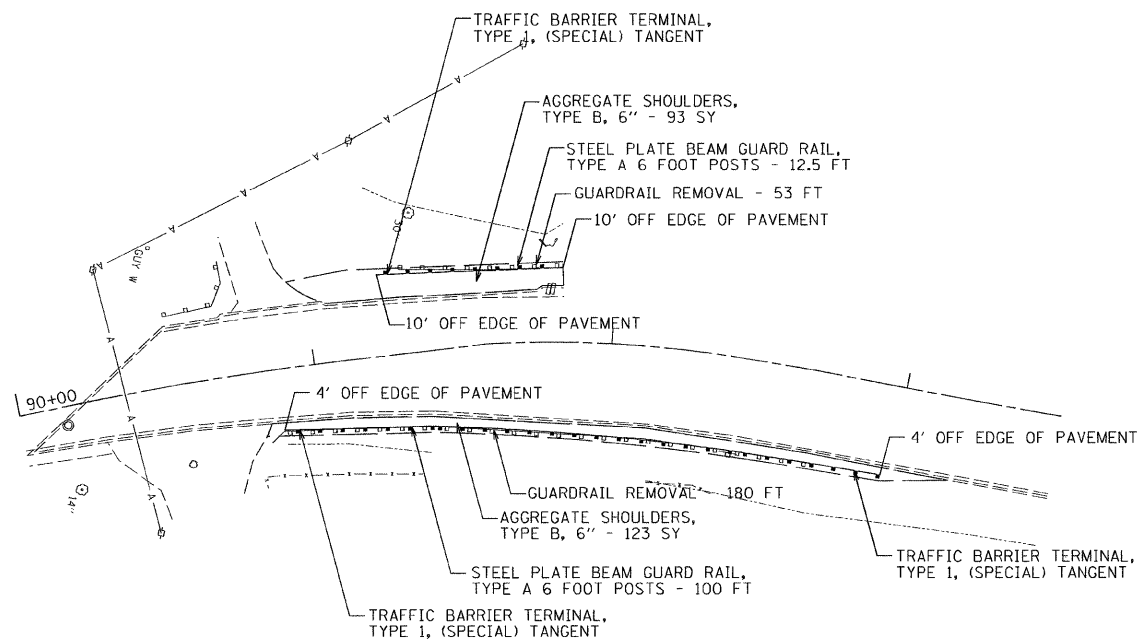


IL 7
LOCATION 7



IL 7
LOCATION 8

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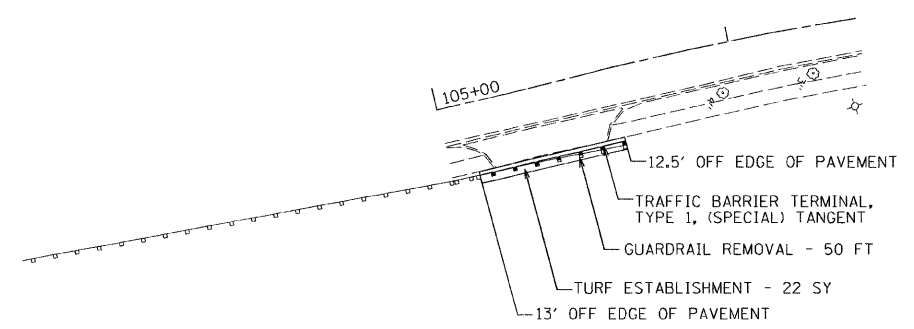
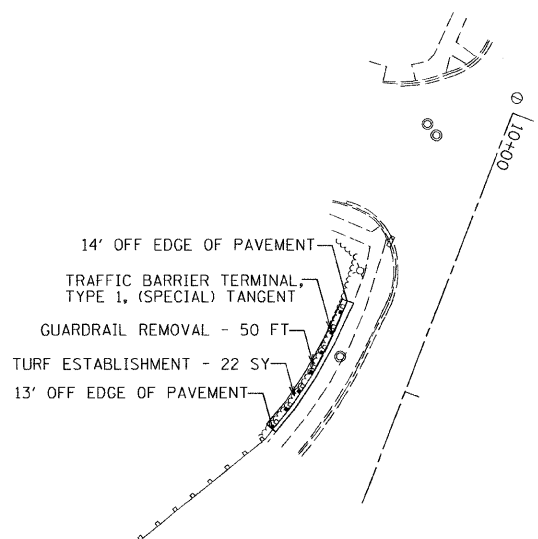
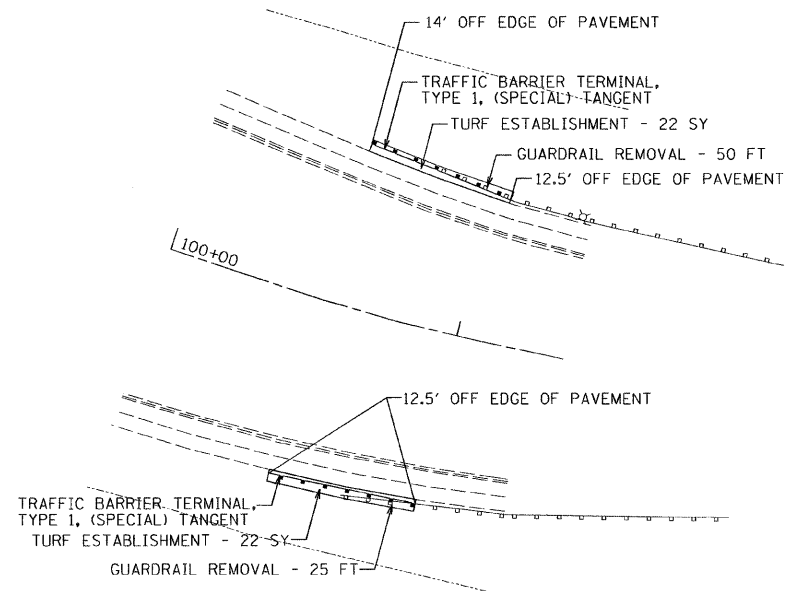
RICHARDS
LOCATION 9

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL IMPROVEMENTS - NORTHERN WILL COUNTY			
ROADWAY PLANS			
SCALE: 30	SHEET NO.	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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• VARIOUS		CONTRACT NO. 60143		
ILLINOIS FED. AID PROJECT				



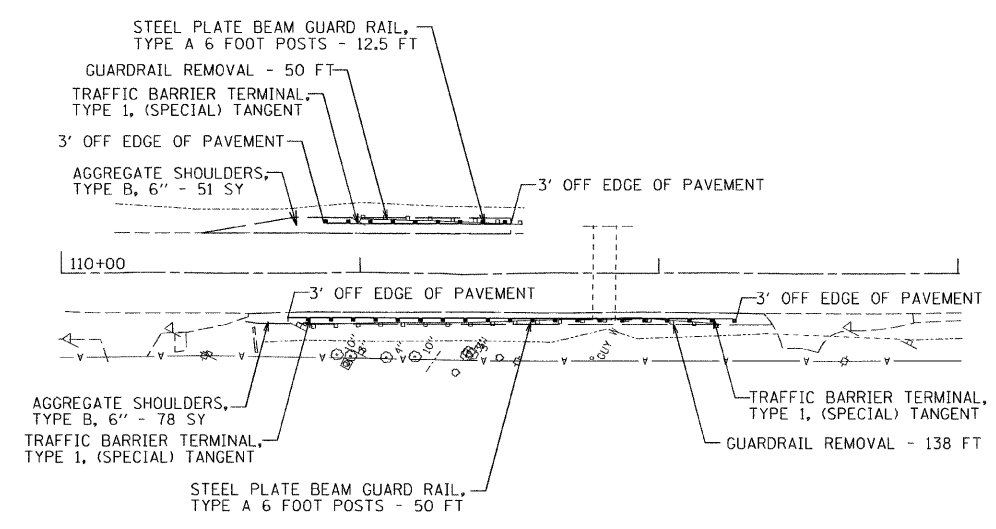
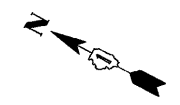
RICHARDS
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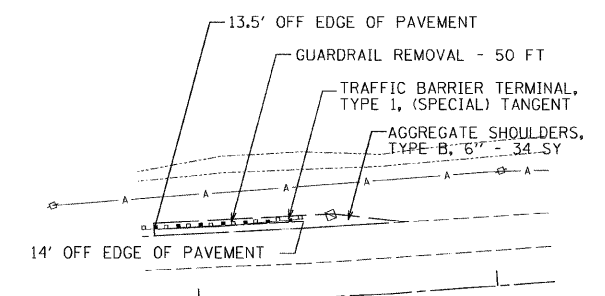
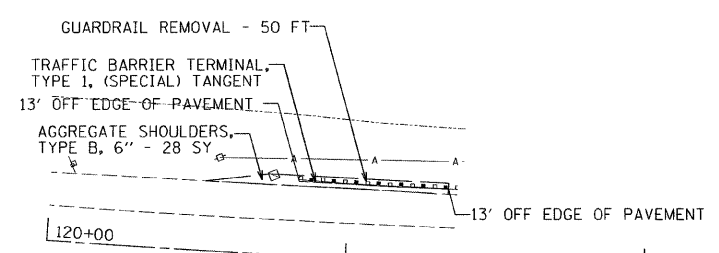
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GUARDRAIL IMPROVEMENTS - NORTHERN WILL COUNTY			
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	2009-090GRR	WILL	17	10
•	VARIOUS	CONTRACT NO. 60143		
ILLINOIS FED. AID PROJECT				



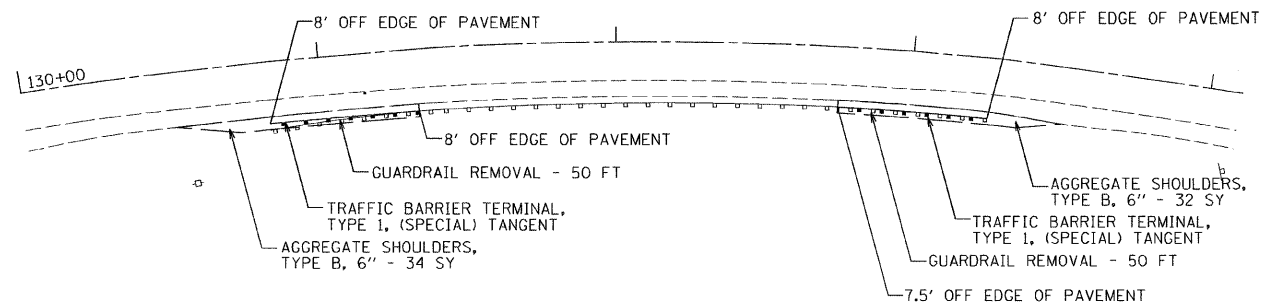
US 30
LOCATION 11



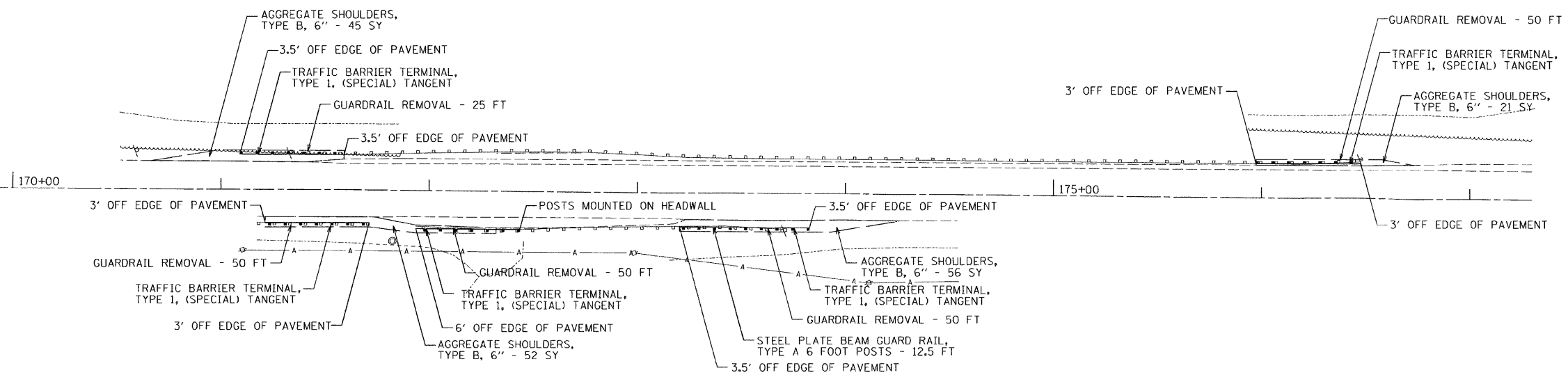
US 30
LOCATION 12



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								ILLINOIS FED. AID PROJECT				
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US 30
LOCATION 13



US 52
LOCATION 14

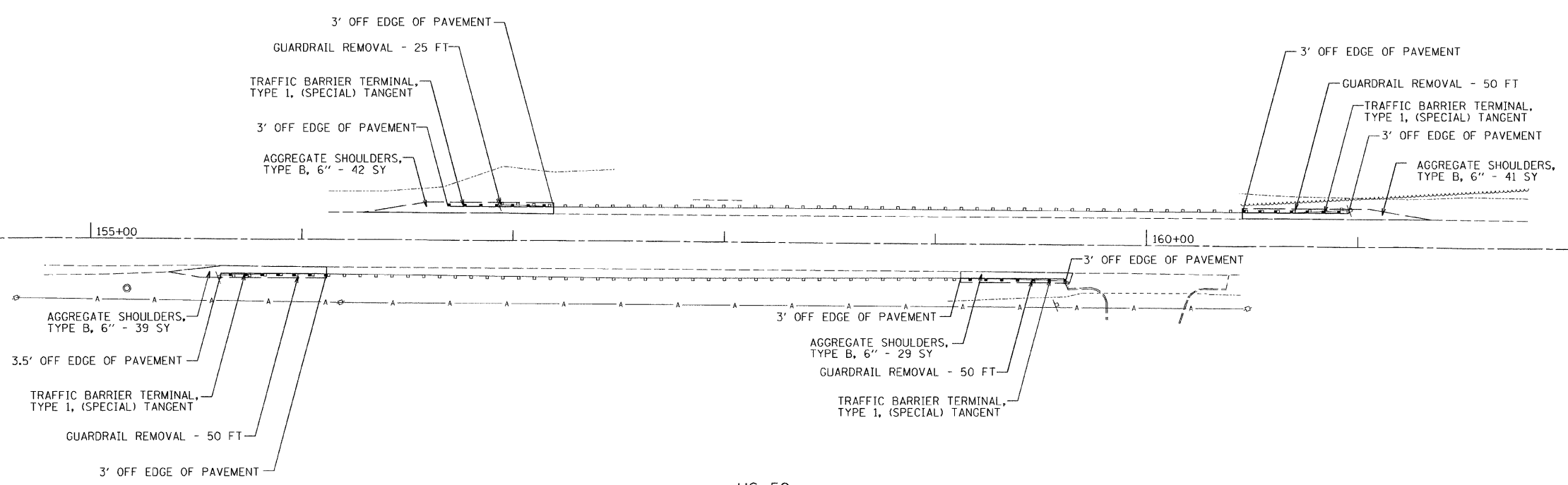
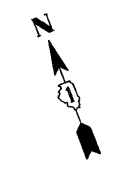


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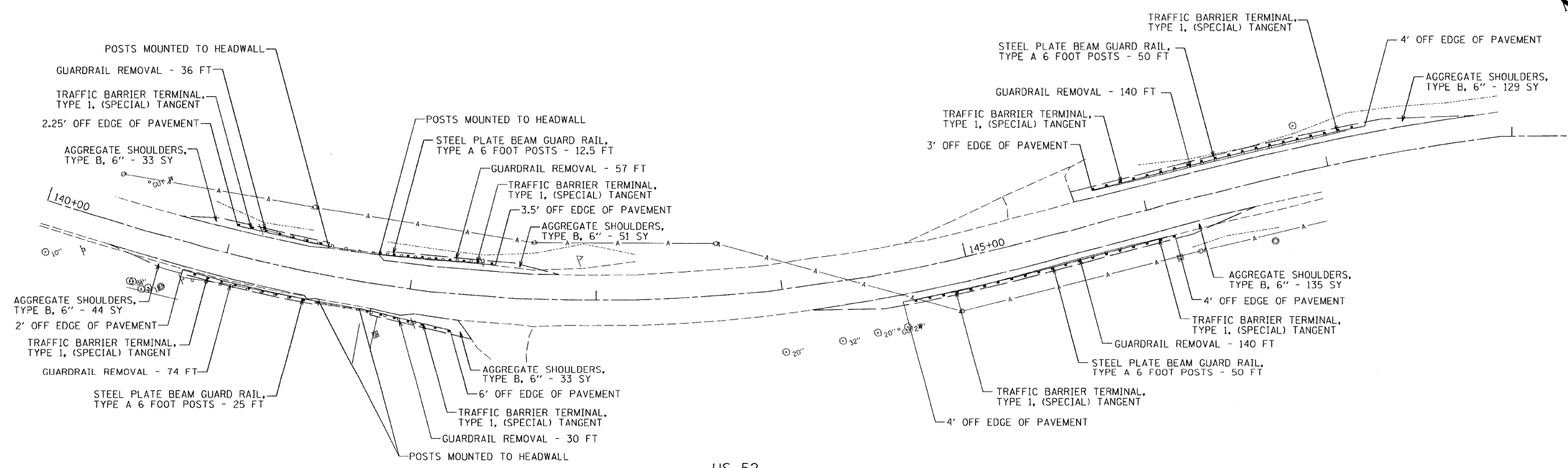
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GUARDRAIL IMPROVEMENTS - NORTHERN WILL COUNTY ROADWAY PLANS			
SCALE: 30	SHEET NO.	OF SHEETS	STA. TO STA.

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ILLINOIS FED. AID PROJECT				

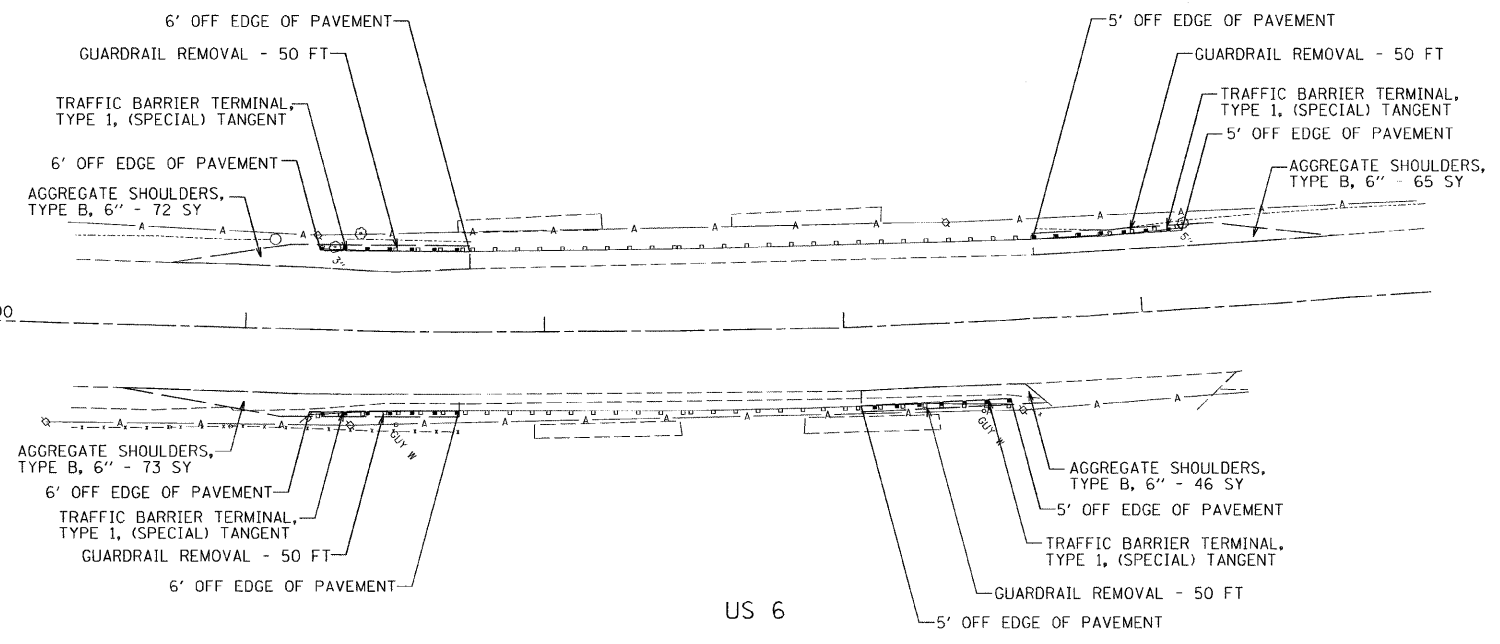
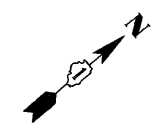


US 52
LOCATION 15



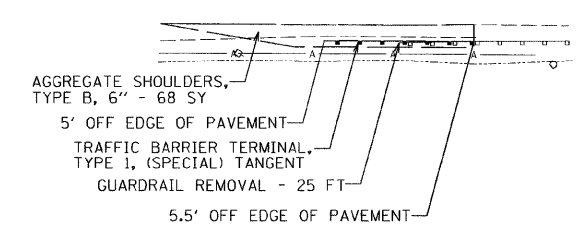
US 52
LOCATION 16 AND 17

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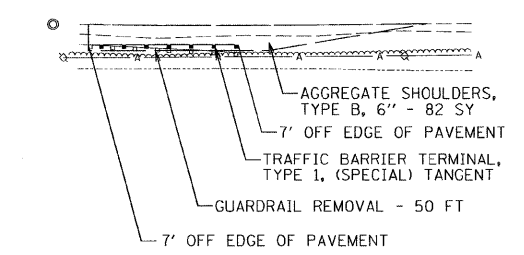


US 6
LOCATION 18

NOTE:
LOCATION 19 WAS SPLIT FOR SCALE PURPOSES



US 6
LOCATION 19



US 6
LOCATION 19

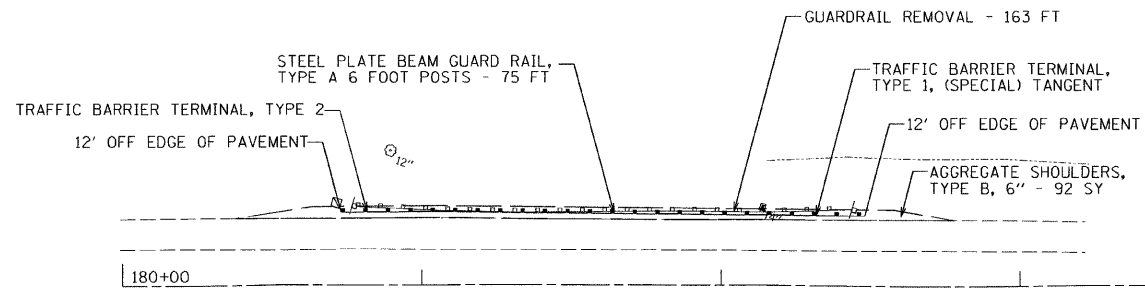
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL IMPROVEMENTS - NORTHERN WILL COUNTY
ROADWAY PLANS

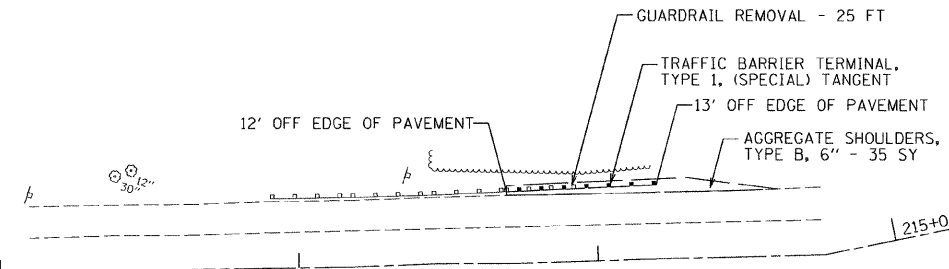
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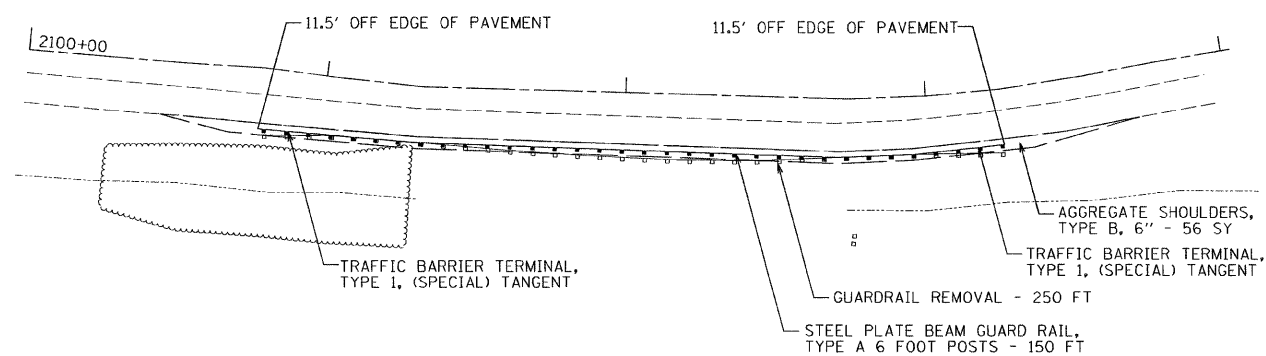
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
• VARIOUS	2009-090GRR	WILL	17	14
			CONTRACT NO. 60143	
ILLINOIS FED. AID PROJECT				



US 6
LOCATION 20



US 6
LOCATION 20



WASHINGTON
LOCATION 21

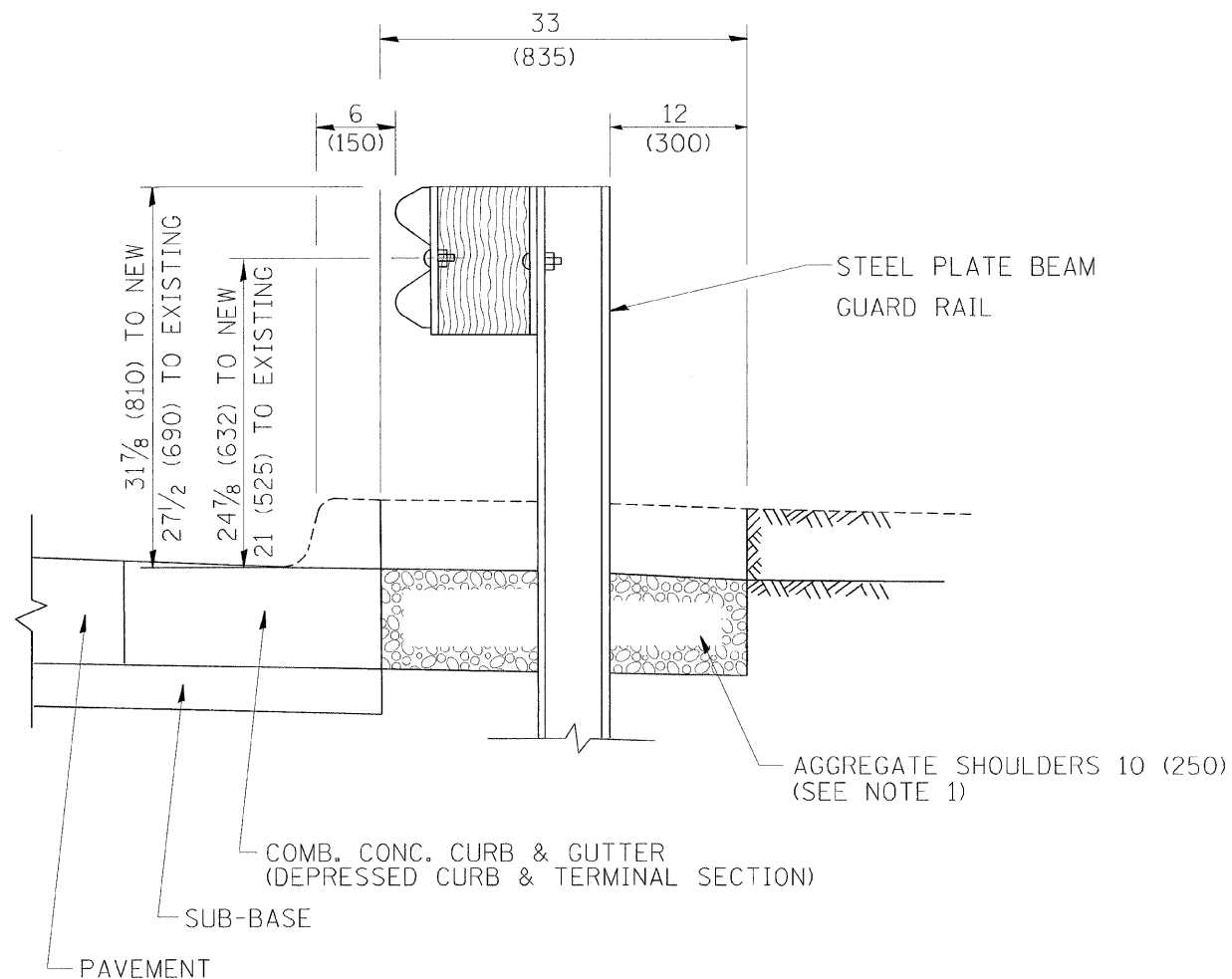
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL IMPROVEMENTS - NORTHERN WILL COUNTY
ROADWAY PLANS

SCALE: 30 SHEET NO. OF SHEETS STA. TO STA.

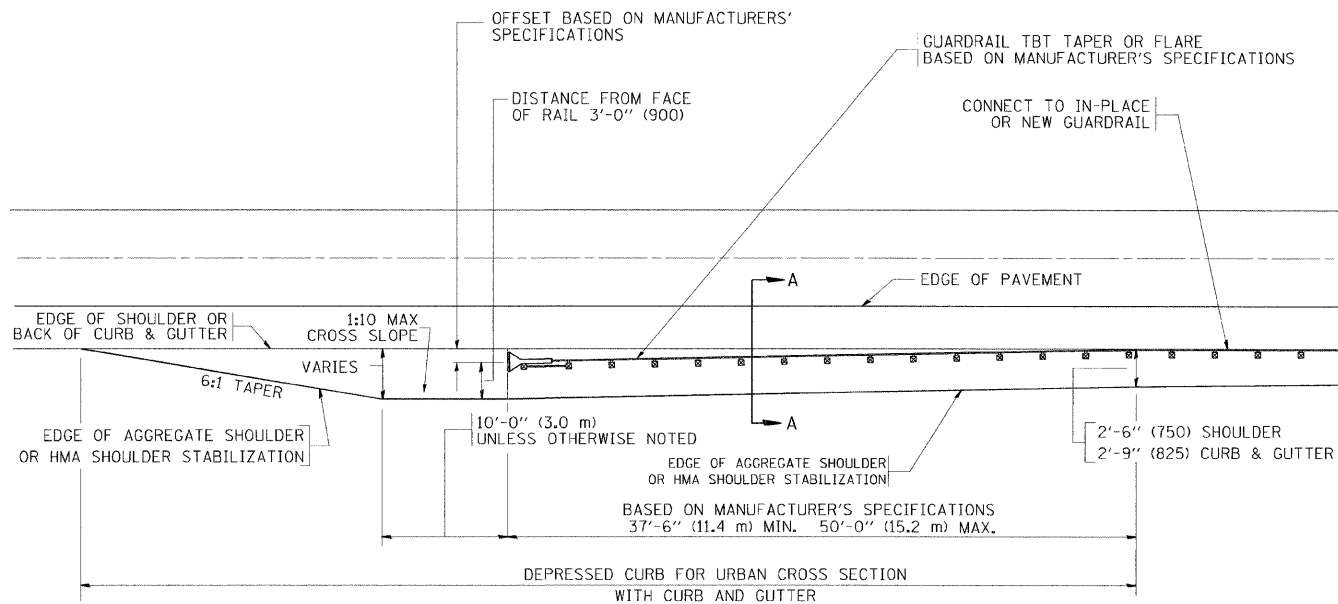
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•	2009-090GRR	WILL	17	15
•	VARIOUS			CONTRACT NO. 60143
ILLINOIS FED. AID PROJECT				



SECTION A-A

- NOTES:
1. THE AGGREGATE SHOULDER, 10" OR HMA SHOULDER, 6" (IF REQUIRED) SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL.
 2. "EXISTING" GUARDRAIL REFERS TO CONNECTING TERMINAL SECTION TO GUARD RAILING PRIOR TO THE MIDWEST GUARDRAIL SYSTEM.
 3. 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.

**DETAILS FOR STEEL PLATE BEAM
GUARD RAIL ADJACENT TO CURB AND GUTTER
[FOR ROADWAY SPEED 35 MPH (60 kmh) TO 45 MPH (70 kmh)]**



**DEPRESSED CURB AND GUTTER AND
SHOULDER TREATMENT AT TBT TY. 1 SPL.**

BASIS OF PAYMENT: HMA SHOULDERS 6 (150) (IF REQUIRED) WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SHOULDERS 6" (150 mm)".

STEEL PLATE BEAM GUARD RAIL AND TRAFFIC BARRIER TERMINAL, OF THE TYPE SPECIFIED WILL BE PAID FOR SEPARATELY.

TBT = TRAFFIC BARRIER TERMINAL

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

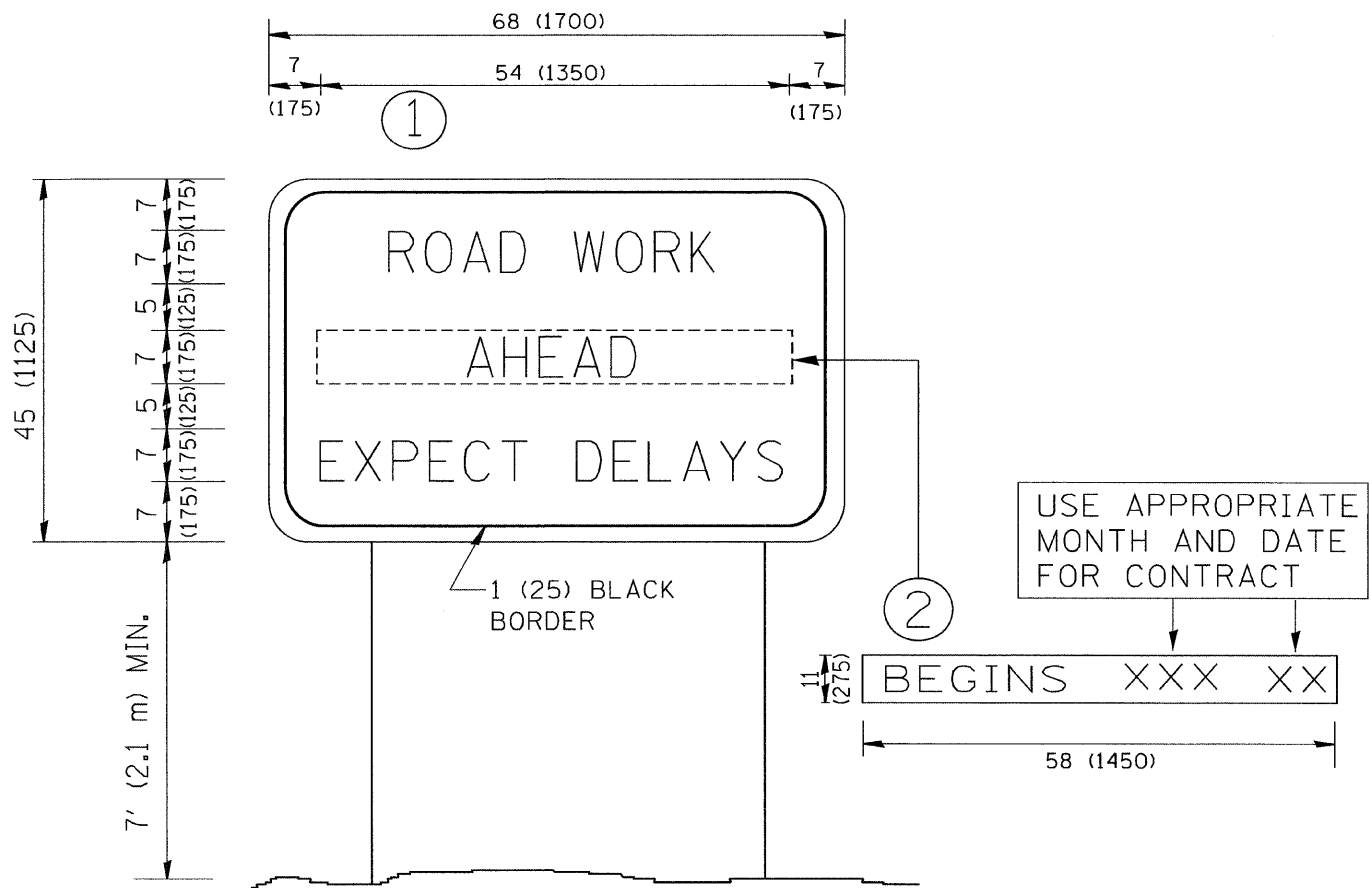
FILE NAME =	USER NAME = drjvakoagn	DESIGNED - M. DE YONG	REVISED - E. GOMEZ 08-28-00
c:\pwork\p\1001\DRIVAK05GN\d81283151b\34.dgn		DRAWN -	REVISED - R. BORO 01-01-07
	PLOT SCALE = 49.9999 1/1 IN.	CHECKED -	REVISED - R. BORO 12-08-2008
	PLOT DATE = 9/21/2009	DATE - 09-22-90	REVISED - R. BORO 09-14-2009

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAILS FOR DEPRESSED CURB & GUTTER AND
SHOULDER TREATMENT AT TBT TY 1 SPL.**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2009-090 GRR	WILL.	17	16
BD600-10 (BD 34)		CONTRACT NO. 60143		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

FILE NAME =	USER NAME = goglionobt	DESIGNED -	REVISED - R. MIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN	F.A. RTE. *	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
M:\diststd\22x34\to22.dgn		DRAWN -	REVISED - R. MIRS 12-11-97			2009-090 GRR	WILL.	17	17	
		CHECKED -	REVISED - T. RAMMACHER 02-02-99			TC-22		CONTRACT NO. 60143		
		DATE -	REVISED - C. JUCIUS 01-31-07			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
				SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.			