

01-12-2012 LETTING ITEM 009

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

ROUTE VARIOUS LOCATIONS
SECTION 2010-119-GRR
GUARDRAIL IMPROVEMENTS
PROJECT: HSIP-000S (870)
DUPAGE COUNTY
C-91-129-11

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
.	2010-119-GRR	DUPAGE	17	1
ILLINOIS			CONTRACT NO. 60M56	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

TRAFFIC DATA

IL 19
EXISTING ADT = 14,000-15,700 (2011)
SPEED LIMIT = 35 MPH

IL 38
EXISTING ADT = 49,700 (2011)
SPEED LIMIT = 55 MPH

IL 53
EXISTING ADT = 15,000 (2011)
SPEED LIMIT = 35 MPH

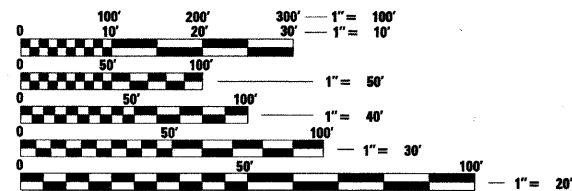
IL 56
EXISTING ADT = 17,300 (2011)
SPEED LIMIT = 35 MPH

IL 59
EXISTING ADT = 25,900-37,400 (2011)
SPEED LIMIT = 35-50 MPH

IL 64
EXISTING ADT = 58,600 (2011)
SPEED LIMIT = 45 MPH

IL 83
EXISTING ADT = 54,300-70,700 (2011)
SPEED LIMIT = 25 MPH (RAMP) AND 50 MPH

THE PROJECT IS LOCATED IN THE CITIES OF
ELMHURST, NAPERVILLE, OAKBROOK TERRACE,
WARRENVILLE, AND WEST CHICAGO AND IN
THE VILLAGES OF ITASCA, LOMBARD,
WINFIELD AND OAKBROOK

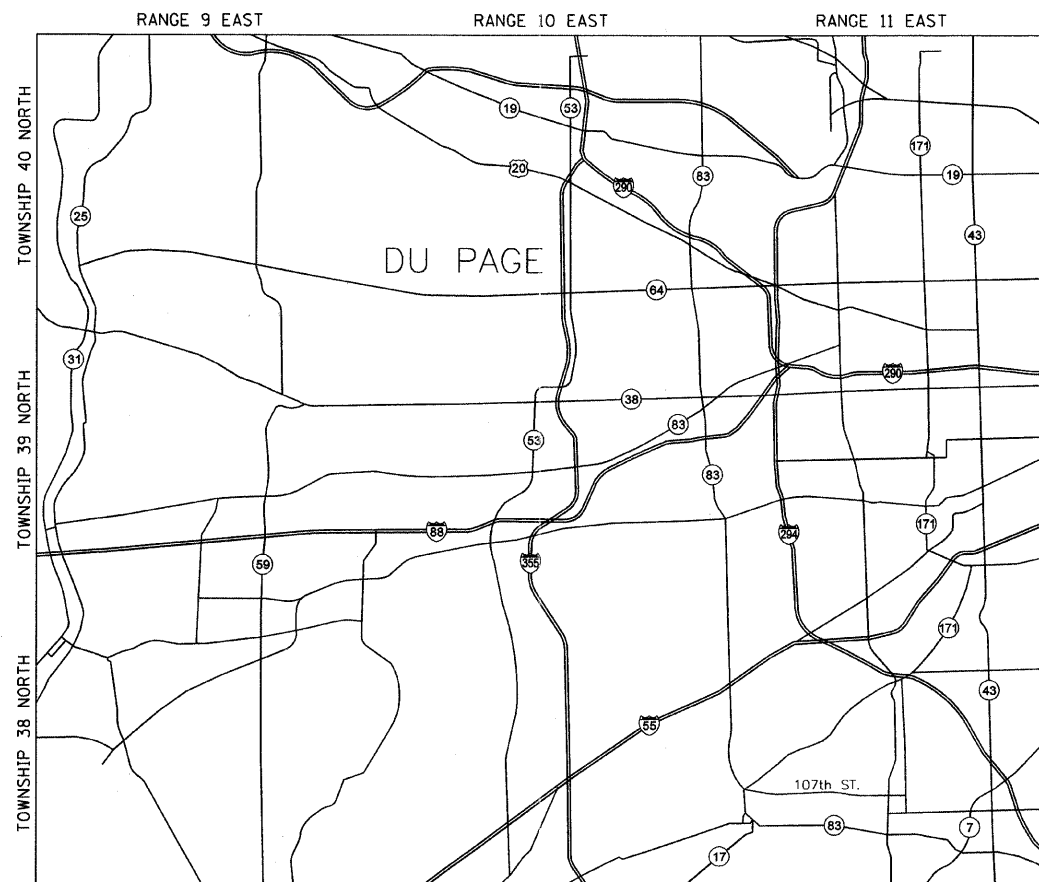


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: PETER JOHNSTON (GRAEF) 773-399-0112
PROJECT MANAGER: KEN ENG (IDOT) 847-705-4247

CONTRACT NO. 60M56



Peter H. Johnston
DATE: 11-7-11

LICENSE EXPIRES 11-30-2012

D-91-129-11



LOCATION OF SECTION INDICATED THUS: - [Symbol] -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED NOVEMBER 8, 20 11

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

December 9 20 11

Scott E. Stitt
ENGINEER OF DESIGN AND ENVIRONMENT

December 9 20 11

William R. Franke
INTERIM DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

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

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX, HIGHWAY STANDARDS, AND GENERAL NOTES
3	SUMMARY OF QUANTITIES
4	LOCATION MAP
5-12	ROADWAY PLAN
13-14	END PARAPET RECONSTRUCTION
15	DETAILS FOR DEPRESSED CURB AND GUTTER AND SHOULDER TREATMENT AT TBT TY 1 SPL (BD34)
16	TRAFFIC CONTROL DETAILS FOR FREEWAY, SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES (TC17)
17	ARTERIAL ROAD INFORMATION SIGNING (TC22)

HIGHWAY STANDARDS

STD. NO.	TITLE
630001-10	STEEL PLATE BEAM GUARDRAIL
630201-06	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-05	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631026-05	TRAFFIC BARRIER TERMINAL TYPE 5
631031-10	TRAFFIC BARRIER TERMINAL TYPE 6
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
701101-02	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH
701422-04	LANE CLOSURE, MULTILANE, FOR SPEEDS ≥ 45 MPH TO 55 MPH
701901-02	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.
- 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.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS @ Ndes
SHOULDER	
HOT-MIX ASPHALT SHOULDER (HMA BINDER IL 19 mm) 6"	2% @ 30 GYR

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE A IS 112 LBS/SQ YD/IN.

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

SUMMARY OF QUANTITIES

90% FED.
10% STATE

PAY ITEM NUMBER	DESCRIPTION	UNIT	URBAN TOTAL QUANTITY	0021 SAFETY
20200600	EXCAVATING AND GRADING EXISTING SHOULDER	UNIT	29	29
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	1,414	1,414
25000210	SEEDING, CLASS 2A	ACRE	0.26	0.26
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	26	26
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	26	26
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	26	26
25100630	EROSION CONTROL BLANKET	SQ YD	1,281	1,281
25200110	SODDING, SALT TOLERANT	SQ YD	222	222
42001300	PROTECTIVE COAT	SQ YD	425	425
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1,127	1,127
48101620	AGGREGATE SHOULDERS, TYPE B 10"	SQ YD	1,593	1,593
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	158	158
50102400	CONCRETE REMOVAL	CU YD	3.3	3.3
50104000	BRIDGE RAIL REMOVAL	FOOT	60	60
50300255	CONCRETE SUPERSTRUCTURE	CU YD	7.0	7.0
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1,288	1,288
60600605	CONCRETE CURB, TYPE B	FOOT	315	315
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	1,127	1,127
* 63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A 6 FOOT POSTS	FOOT	138	138
* 63100070	TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	1	1
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	21	21
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	24	24
63200310	GUARDRAIL REMOVAL	FOOT	2,219	2,219
63301990	REMOVE AND REERECT TRAFFIC BARRIER TERMINALS, TYPE 1	EACH	1	1
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6
67100100	MOBILIZATION	L SUM	1	1
70100320	TRAFFIC CONTROL AND PROTECTION, STANDARD 701422	L SUM	1	1
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1
* 78200420	GUARDRAIL MARKERS, TYPE B	EACH	75	75
* 78201000	TERMINAL MARKER DIRECT APPLIED	EACH	24	24
X0322194	POLYMER MODIFIED PORTLAND CEMENT MORTAR	SQ FT	0.75	0.75
Δ X2503100	MOWING	UNIT	121	121
Z0018900	DRILL AND GROUT DOWEL BARS	EACH	36	36
Z0029999	IMPACT ATTENUATOR REMOVAL	EACH	2	2
64300260	IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	257	257

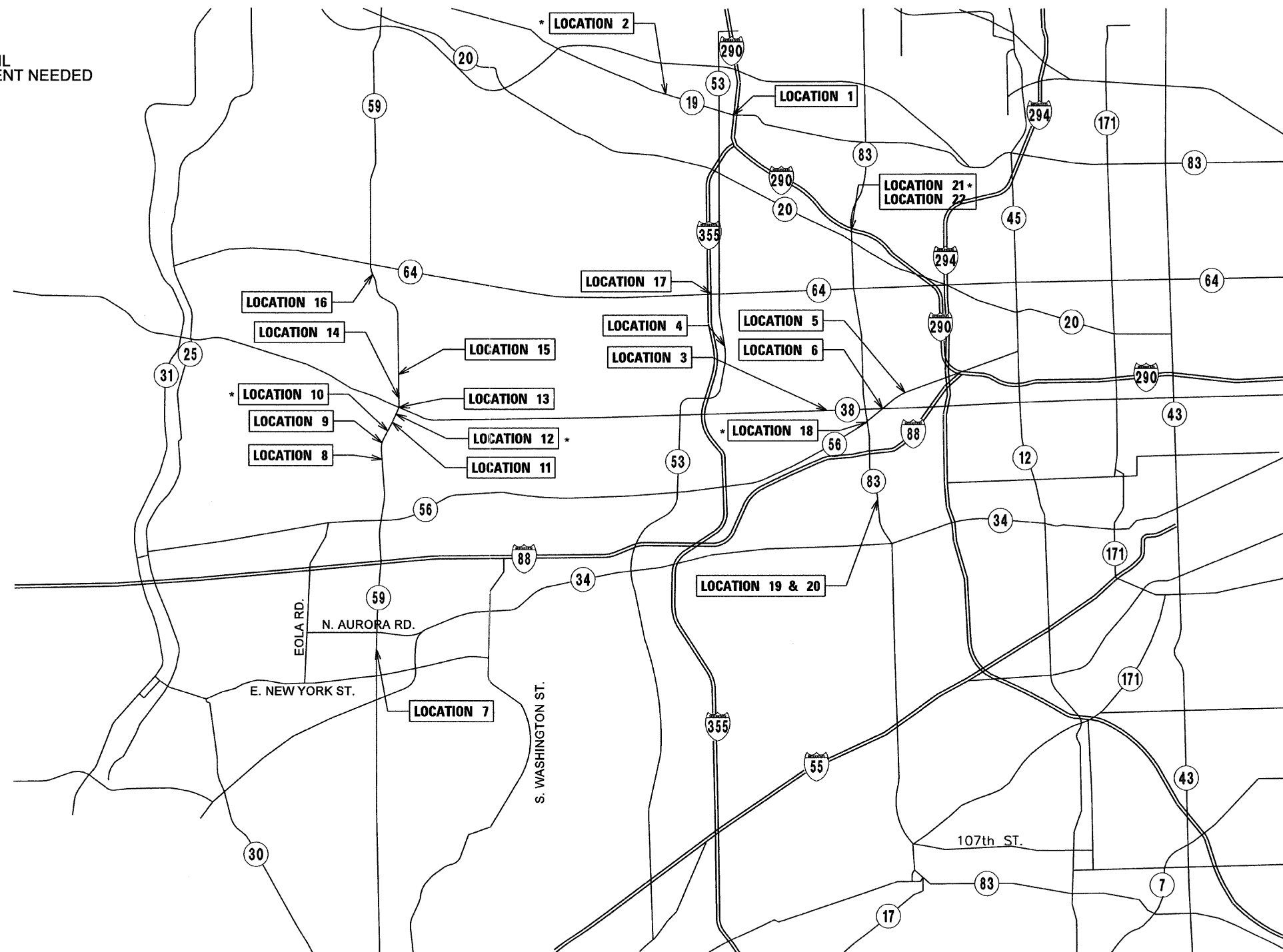
* DENOTES SPECIALTY ITEM

Δ Non-participating (100% STATE)

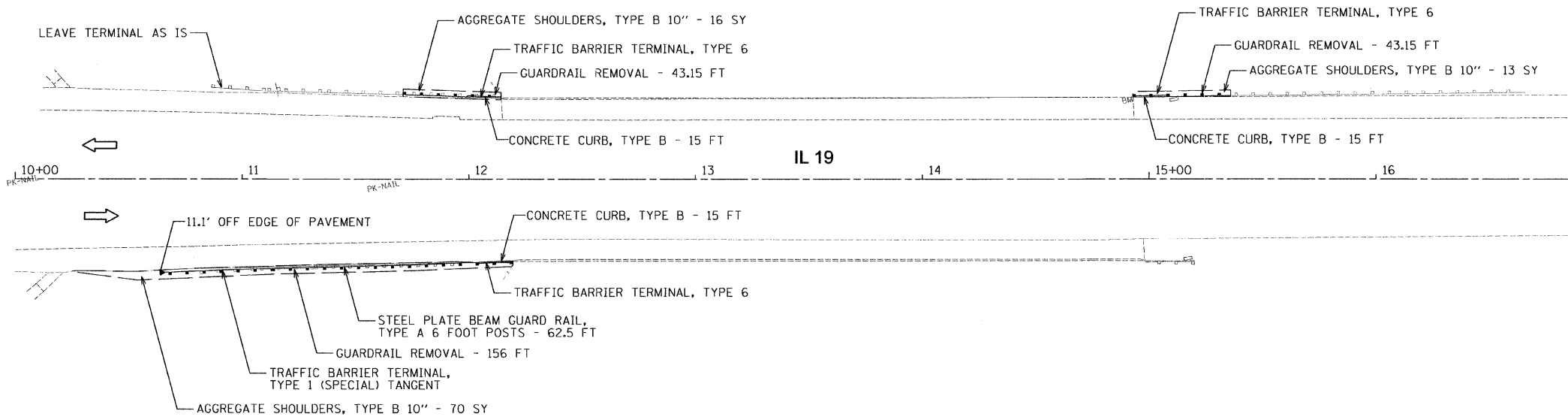
FILE NAME =	USER NAME = .USER.	DESIGNED - EF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GUARDRAIL IMPROVEMENTS - DuPAGE COUNTY SUMMARY OF QUANTITIES	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN - EF	REVISED -			2010-119-GRR	DuPAGE	17	3	
PLOT SCALE = 50' / IN.		CHECKED - RS	REVISED -			VARIOUS ROUTES	CONTRACT NO. 60M56			
PLOT DATE = 11/9/2011		DATE - 11/10/2011	REVISED -			ILLINOIS FED. AID PROJECT				
				SCALE: 50	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.			



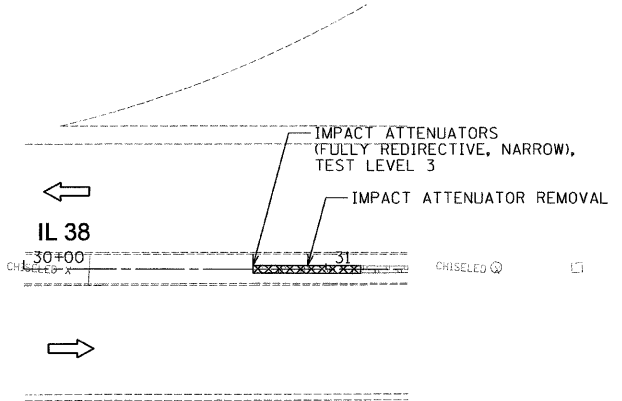
* NEW GUARDRAIL
NO REPLACEMENT NEEDED



FILE NAME =	USER NAME = .USER.	DESIGNED - EF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GUARDRAIL IMPROVEMENTS - DuPAGE COUNTY LOCATION MAP				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FILEL	PLOT SCALE = 50.0000' / IN.	DRAWN - EF	REVISED -		SCALE: 50	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	• 2010-119-GRR	DuPAGE	17	4	
	PLOT DATE = 11/9/2011	CHECKED - RS	REVISED -						• VARIOUS ROUTES				
		DATE - 11/10/2011	REVISED -										
												CONTRACT NO. 60M56	
												ILLINOIS FED. AID PROJECT	



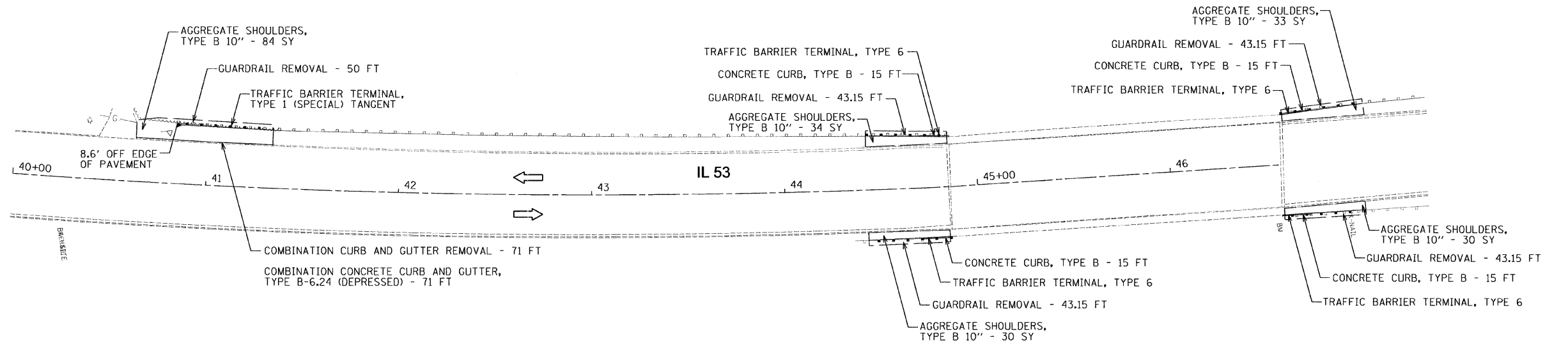
LOCATION 1



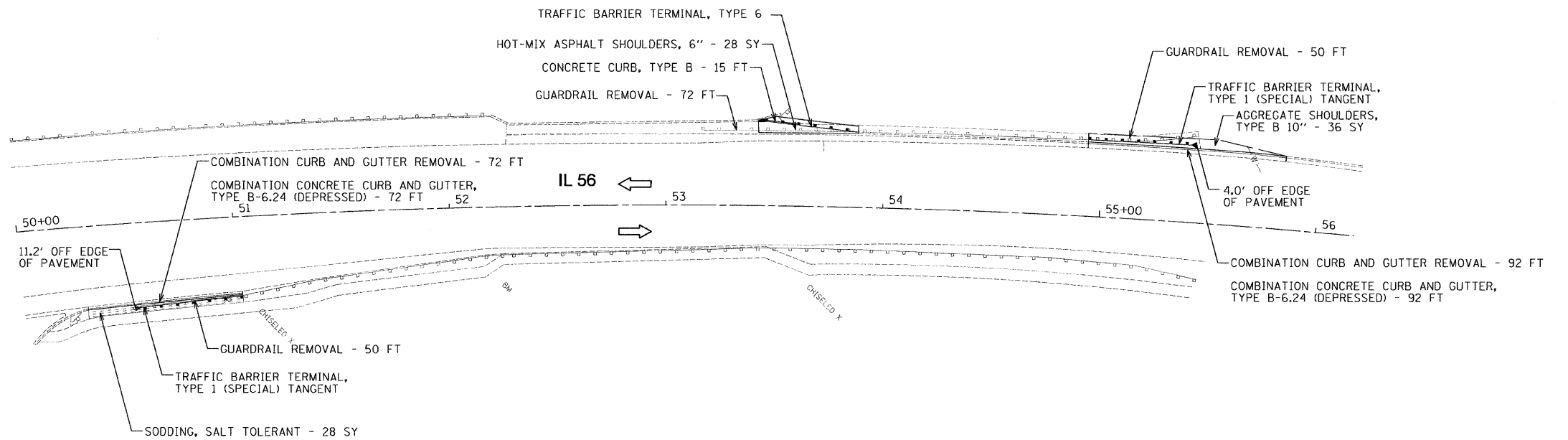
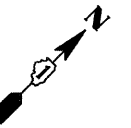
LOCATION 3

p:\jobs\2011\2011_1012-04\cod\site\ dgn\001\160M56-ah1-plan01.dgn
 11/9/2011 3:26:07 PM

FILE NAME =	USER NAME = .USER.	DESIGNED - EAF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GUARDRAIL IMPROVEMENTS - DuPAGE COUNTY ROADWAY PLANS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILEL*		DRAWN - EAF	REVISED -		SCALE: 30	SHEET NO. 1 OF 8 SHEETS	STA. TO STA.	• 2010-119-GRR	DuPAGE	17	5	
	PLOT SCALE = 30.0000' / IN.	CHECKED - RS	REVISED -					• VARIOUS ROUTES	CONTRACT NO. 60M56			
	PLOT DATE = 11/9/2011	DATE - 11/10/2011	REVISED -					ILLINOIS FED. AID PROJECT				



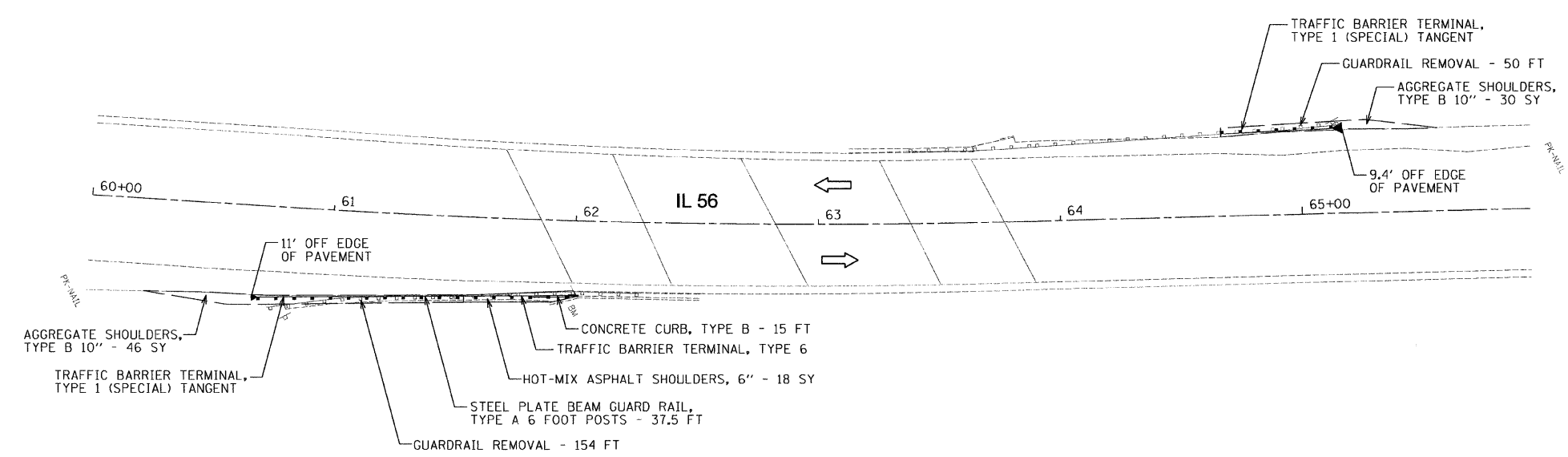
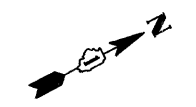
LOCATION 4



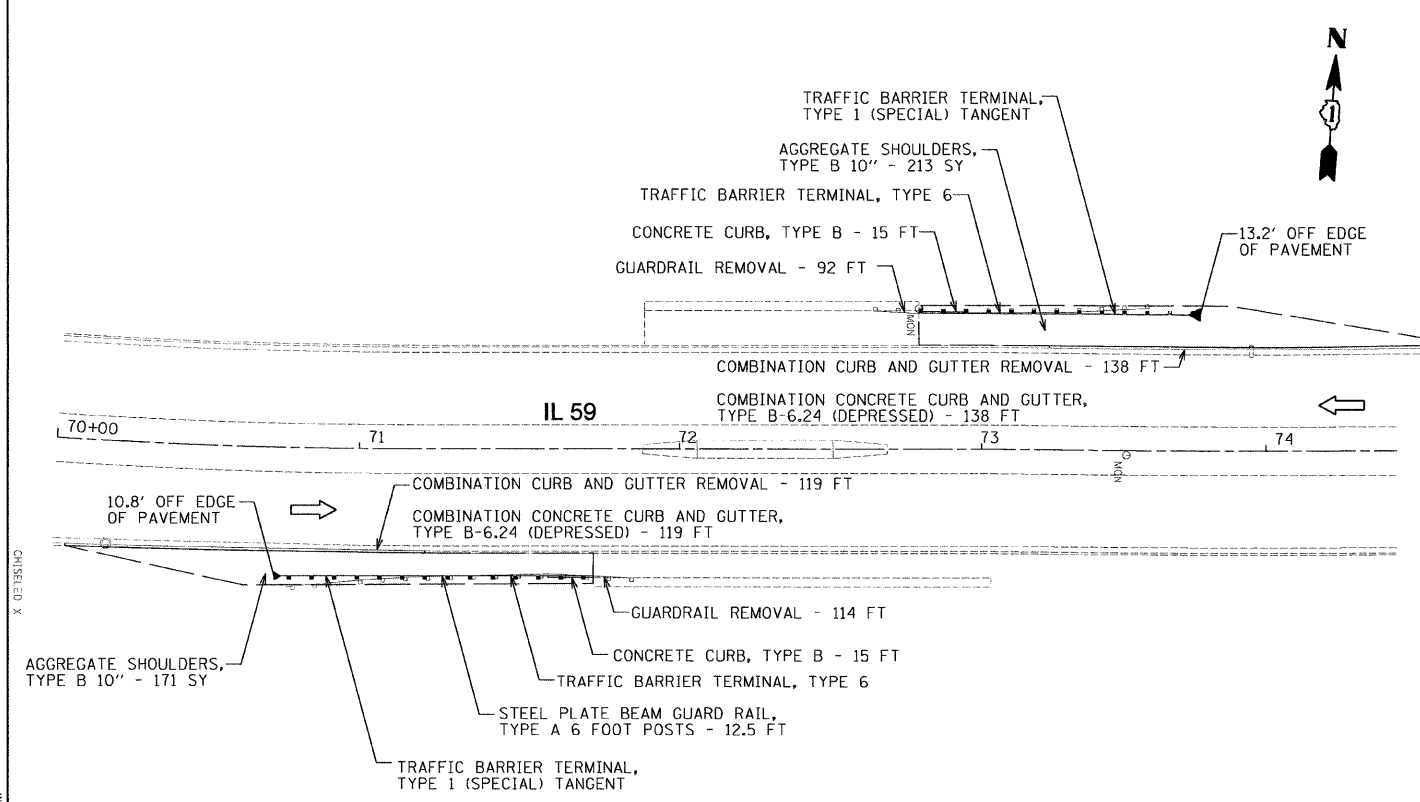
LOCATION 5

p:\p022011\20110912-04\cod\site\ogn\00\0160M56-ant-plan02.dgn
 11/9/2011 3:26:11 PM

FILE NAME =	USER NAME = .USER.	DESIGNED - EAF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GUARDRAIL IMPROVEMENTS - DuPAGE COUNTY ROADWAY PLANS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILEL#		DRAWN - EAF	REVISED -		SCALE: 30	SHEET NO. 2 OF 8 SHEETS	STA. TO STA.	2010-119-GRR	DuPAGE	17	6	
		CHECKED - RS	REVISED -					VARIOUS ROUTES		CONTRACT NO. 60M56		
		DATE - 11/10/2011	REVISED -					ILLINOIS FED. AID PROJECT				



LOCATION 6



LOCATION 7

P:\cbs2011\2011012-04\cod\site\00\160M56-shi-plan03.dgn
 11/9/2011 3:26:16 PM
 CHSLED X

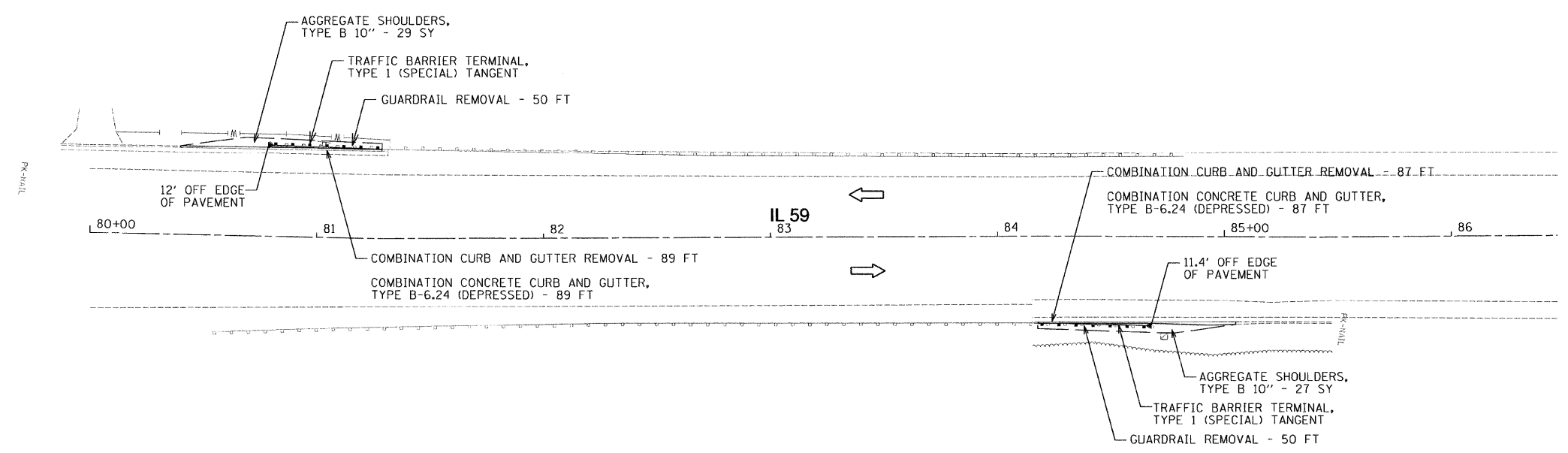
FILE NAME =	USER NAME = .USER.	DESIGNED - EAF	REVISED -
#FILEL*		DRAWN - EAF	REVISED -
	PLOT SCALE = 30.0000' / IN.	CHECKED - RS	REVISED -
	PLOT DATE = 11/9/2011	DATE - 11/10/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

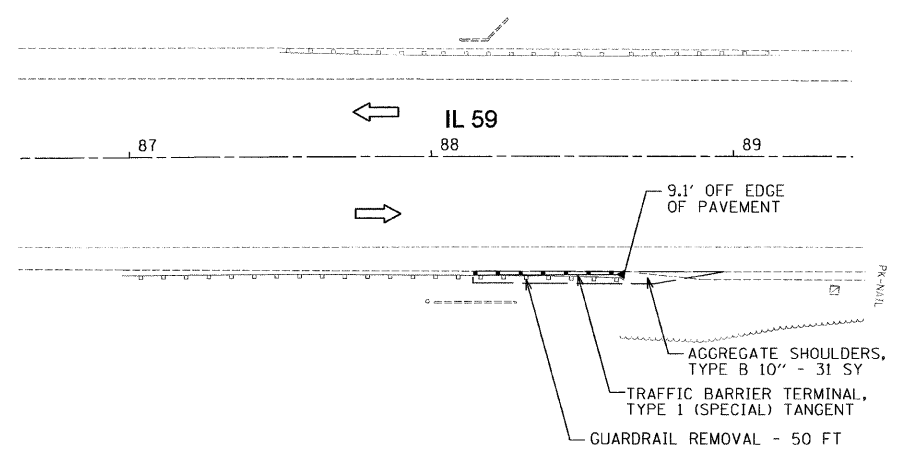
GUARDRAIL IMPROVEMENTS - DuPAGE COUNTY
ROADWAY PLANS

SCALE: 30 SHEET NO. 3 OF 8 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2010-119-GRR	DuPAGE	17	7
* VARIOUS ROUTES		CONTRACT NO. 60M56		
ILLINOIS FED. AID PROJECT				



LOCATION 8



LOCATION 9

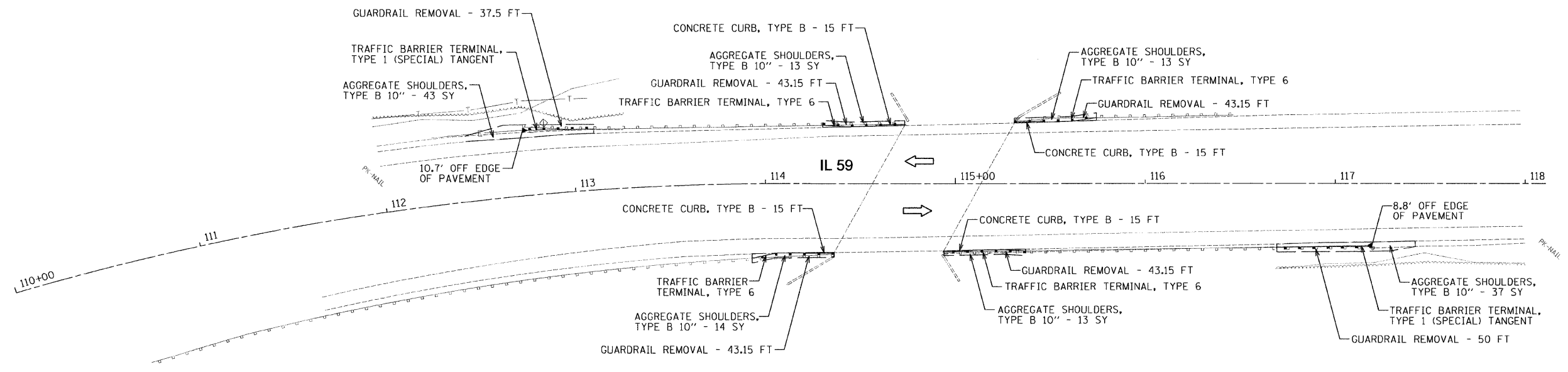
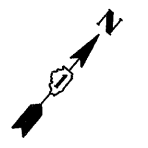
P:\092011\2011012-04\cod\site\00\160M56-ant-plan04.dgn
 11/9/2011 3:26:20 PM

FILE NAME =	USER NAME = .USER.	DESIGNED - EAF	REVISED -
#FILEL#		DRAWN - EAF	REVISED -
	PLOT SCALE = 30,0000 1 / IN.	CHECKED - RS	REVISED -
	PLOT DATE = 11/9/2011	DATE - 11/10/2011	REVISED -

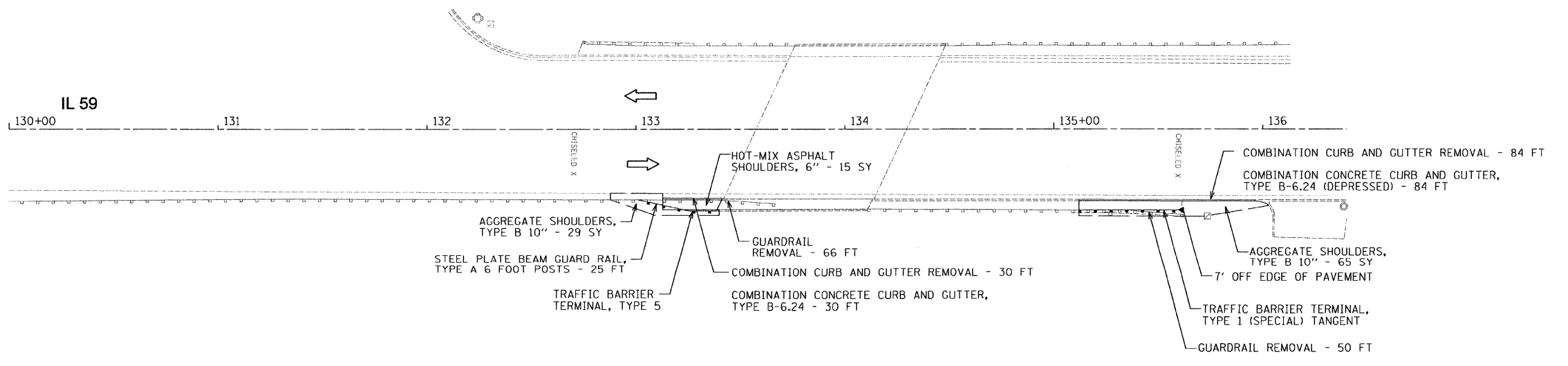
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL IMPROVEMENTS - DuPAGE COUNTY ROADWAY PLANS			
SCALE: 30	SHEET NO. 4 OF 8 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	2010-119-GRR	DuPAGE	17	8
• VARIOUS ROUTES			CONTRACT NO. 60M56	
ILLINOIS FED. AID PROJECT				



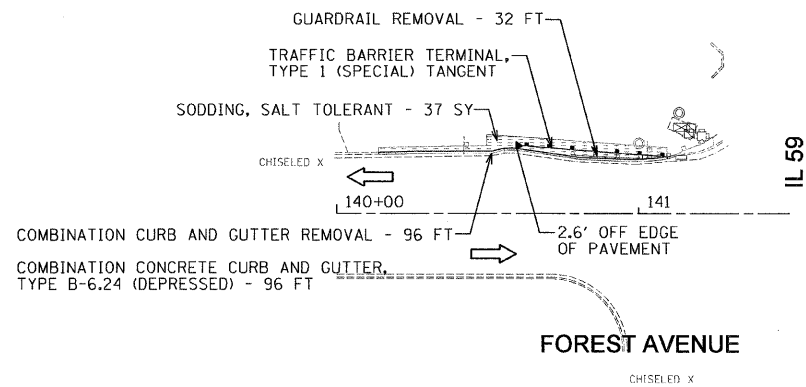
LOCATION 11



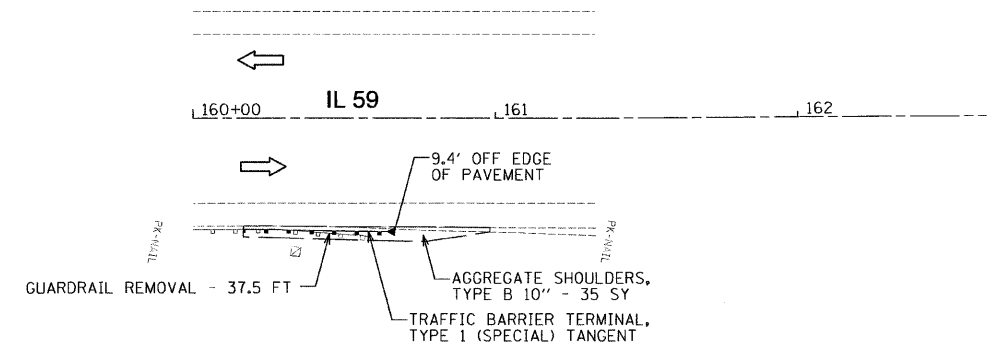
LOCATION 13

P:\2011\11-9-2011\2011-10-12-04\cad\site\00\0160M56-ant-plan05.dgn
 11/9/2011 3:26:24 PM

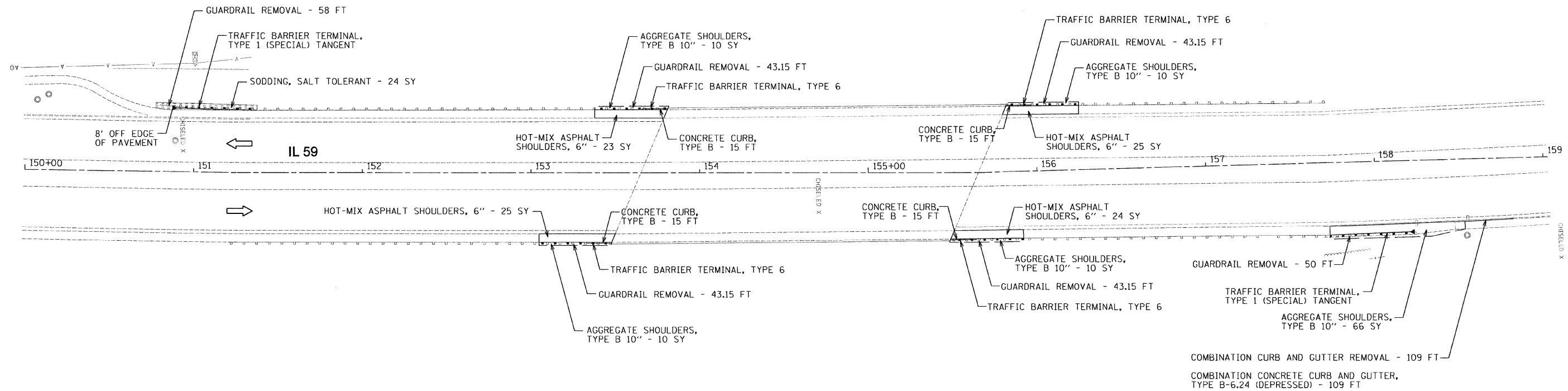
FILE NAME =	USER NAME = .USER.	DESIGNED - EAF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GUARDRAIL IMPROVEMENTS - DuPAGE COUNTY ROADWAY PLANS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILEL#		DRAWN - EAF	REVISED -		SCALE: 30	SHEET NO. 5 OF 8 SHEETS	STA.	TO STA.	2010-119-GRR	DuPAGE	17	9	
	PLOT SCALE = 30,0000' / IN.	CHECKED - RS	REVISED -					VARIOUS ROUTES		CONTRACT NO. 60M56			
	PLOT DATE = 11/9/2011	DATE - 11/10/2011	REVISED -					ILLINOIS FED. AID PROJECT					



LOCATION 14



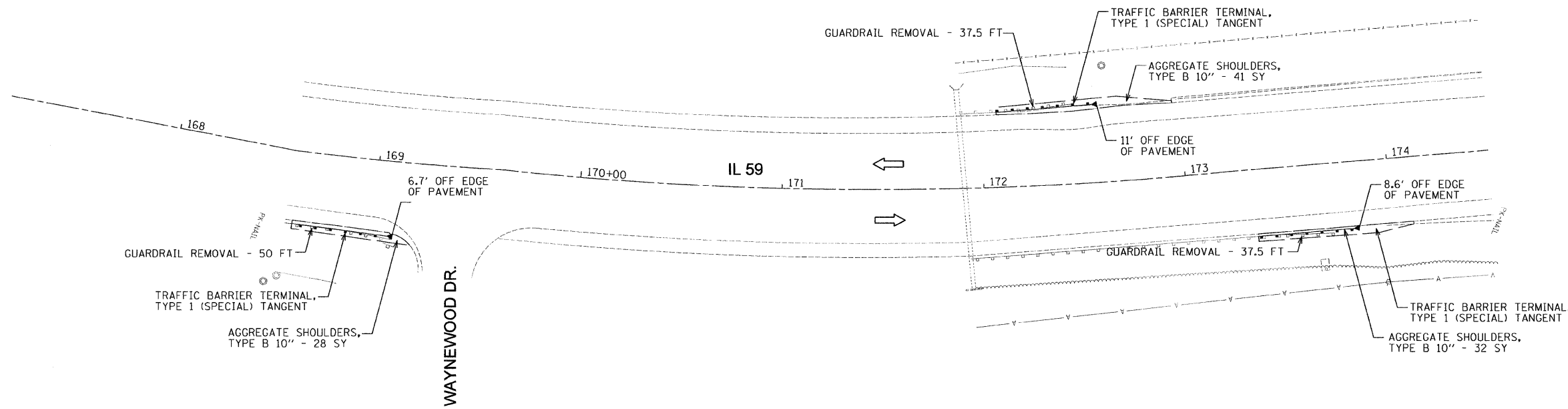
LOCATION 16
SOUTH OF WAYWOOD DR.



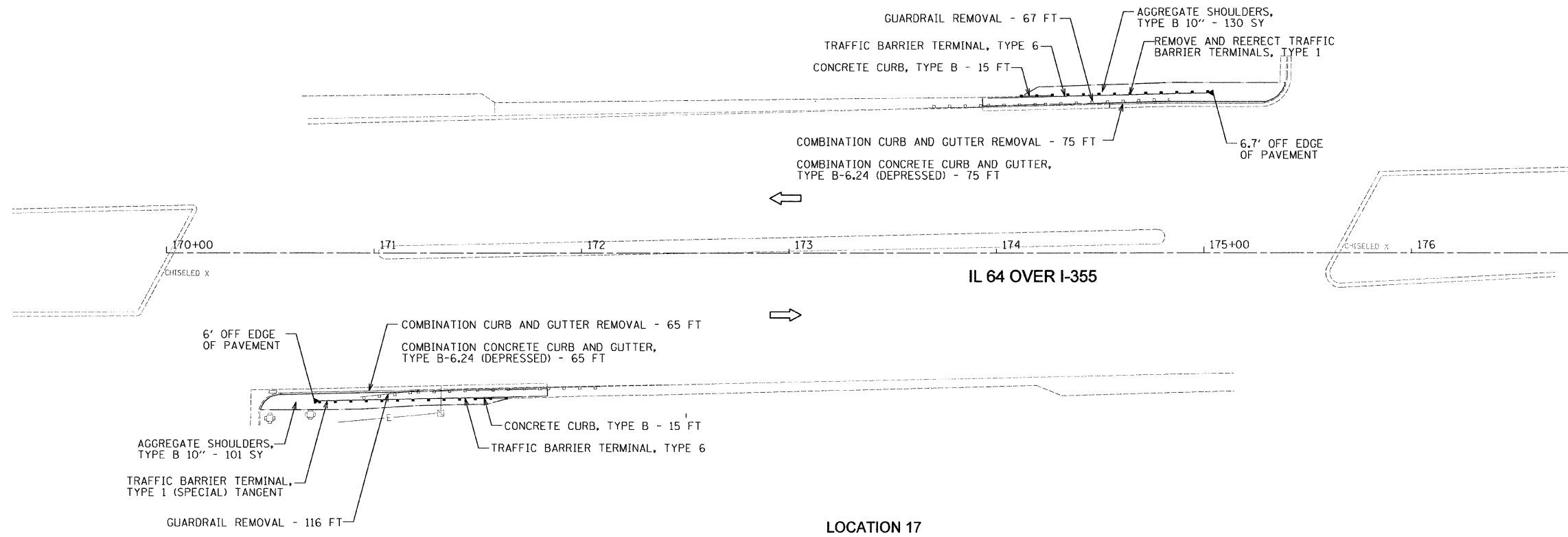
LOCATION 15

p:\pba2011\2011012-04\cod\site\ dgn\00\160M56-shi-plan06.dgn
 11/9/2011 3:26:29 PM

FILE NAME =	USER NAME = USER.	DESIGNED - EAF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GUARDRAIL IMPROVEMENTS - DuPAGE COUNTY ROADWAY PLANS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILEL*		DRAWN - EAF	REVISED -		SCALE: 30	SHEET NO. 6 OF 8 SHEETS	STA.	TO STA.	2010-119-GRR	DUPAGE	17	10
	PLOT SCALE = 30.0000' / IN.	CHECKED - RS	REVISED -						VARIOUS ROUTES		CONTRACT NO. 60M56	
	PLOT DATE = 11/9/2011	DATE - 11/10/2011	REVISED -						ILLINOIS FED. AID PROJECT			



LOCATION 16



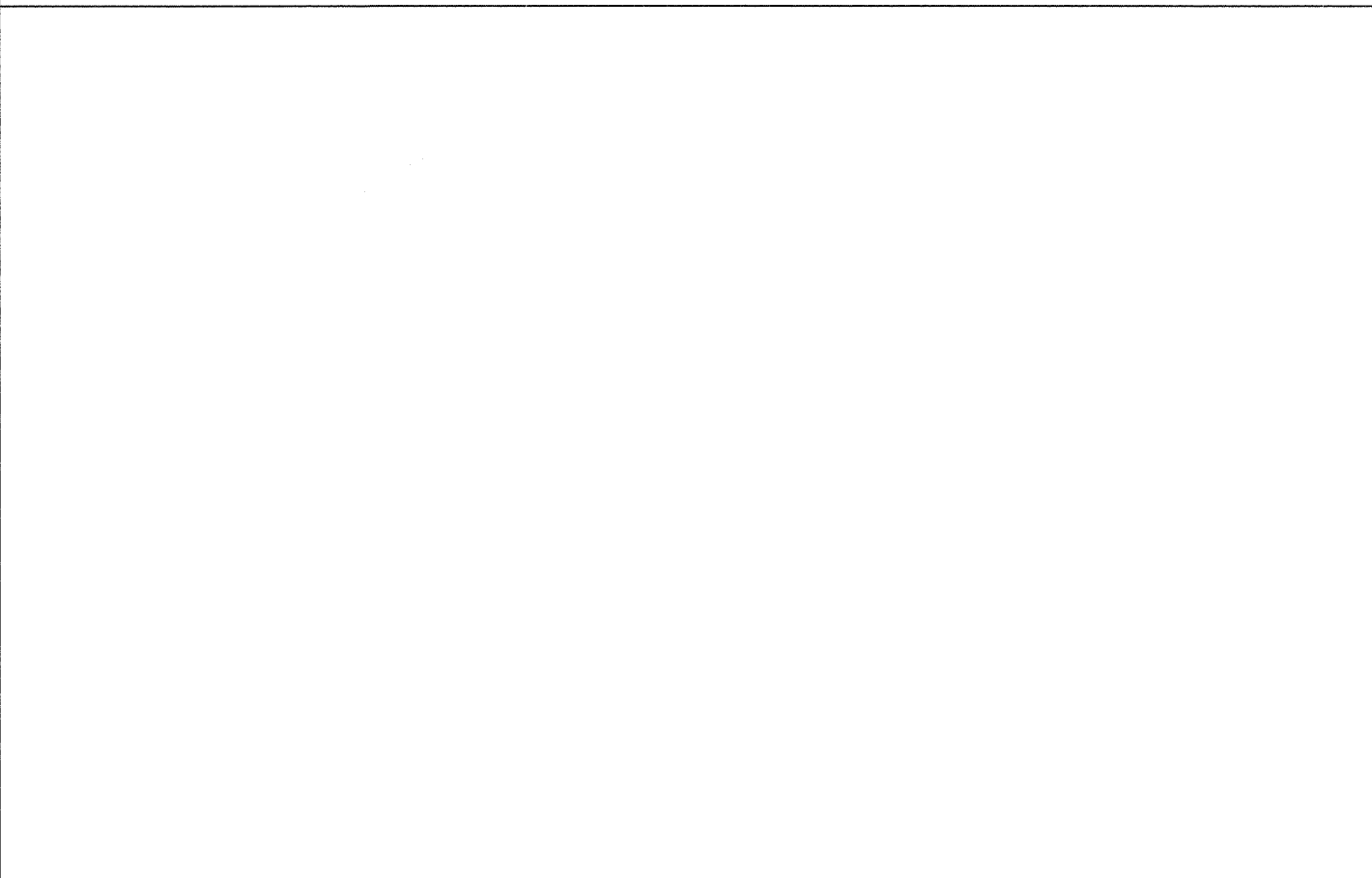
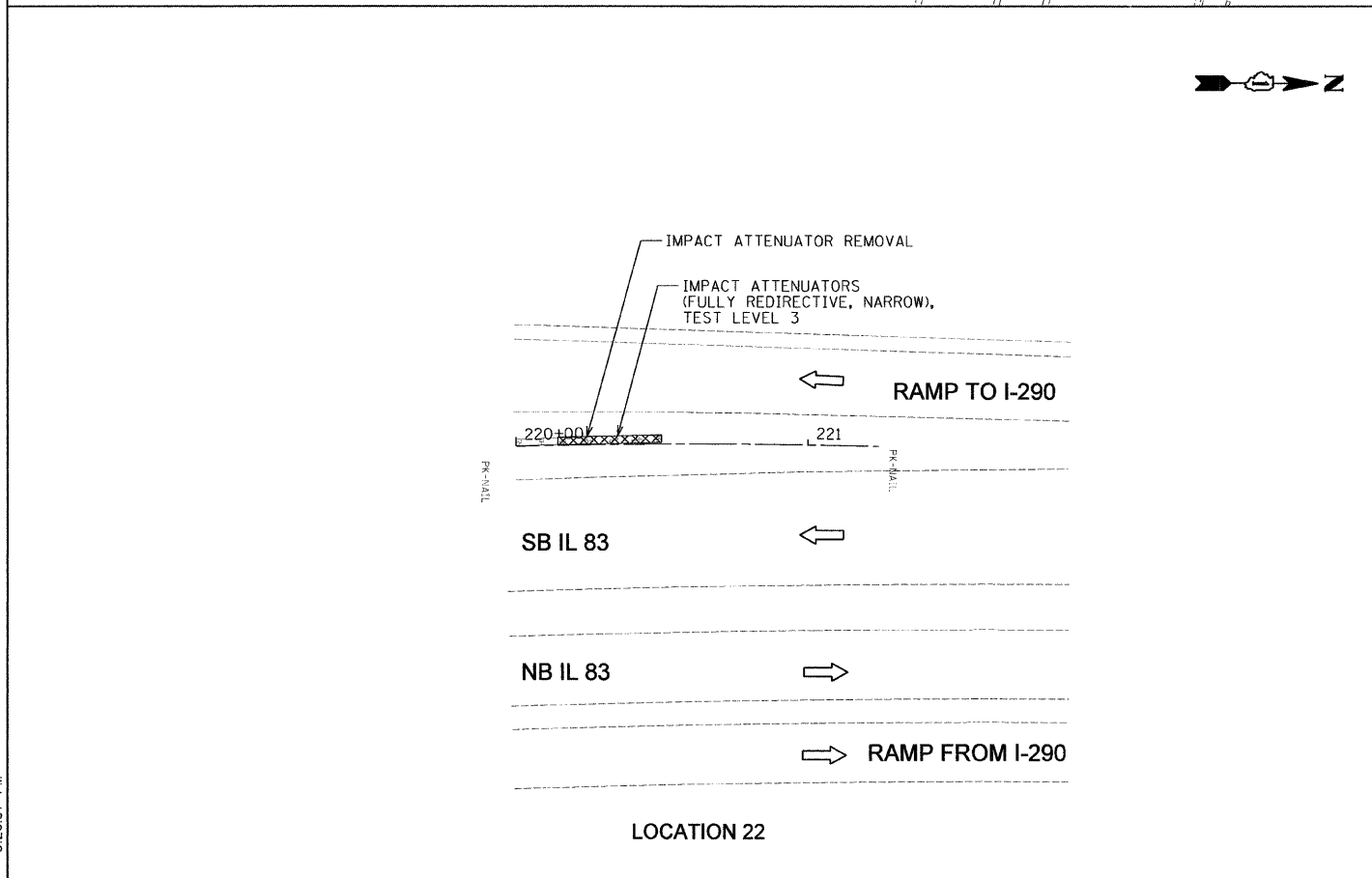
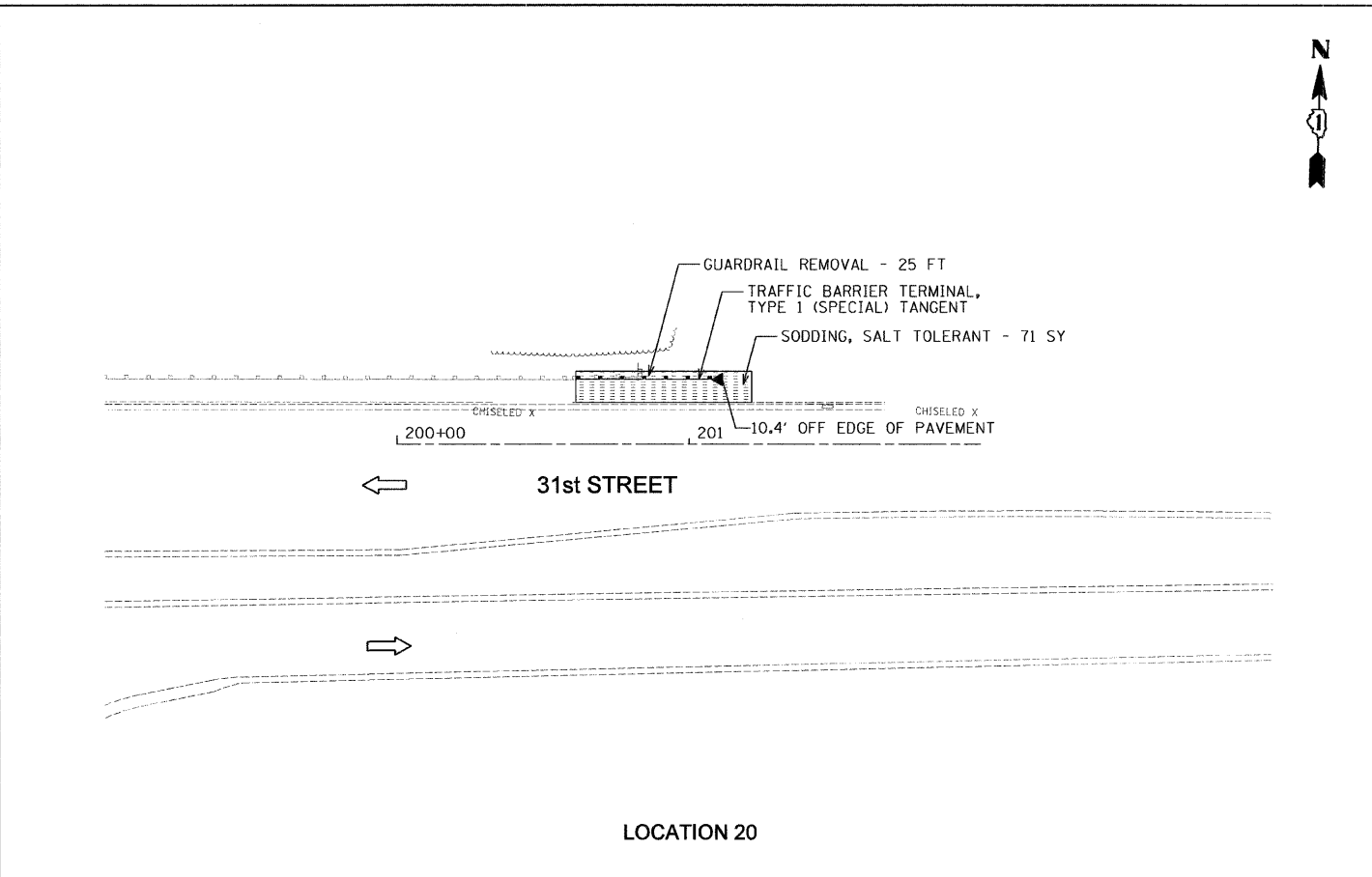
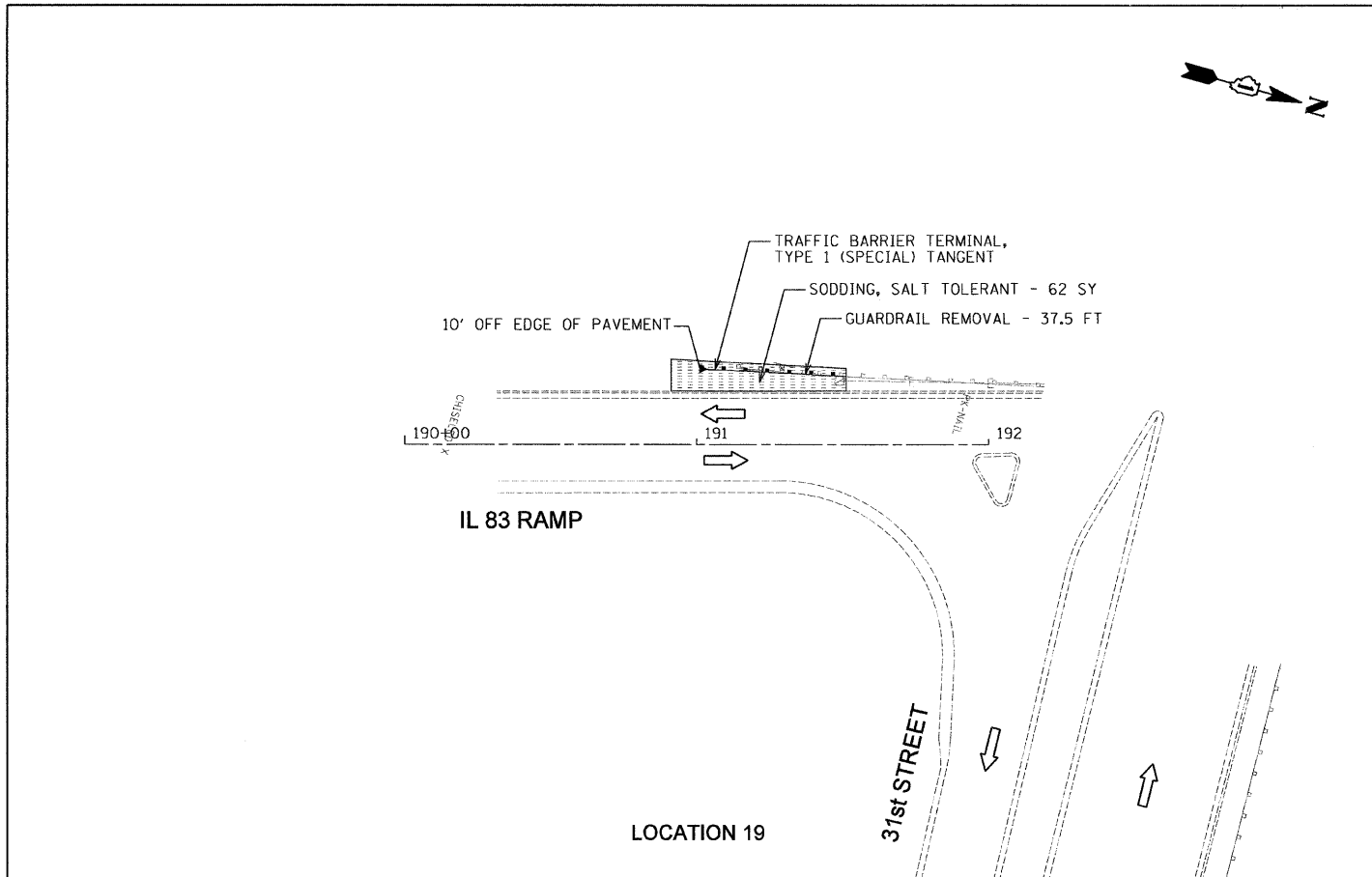
LOCATION 17



P:\9952011\20110112-04\cod\site\ dgn\00\160M56-shl-plan07.dgn
 11/9/2011 3:26:33 PM

FILE NAME =	USER NAME = USER	DESIGNED - EAF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GUARDRAIL IMPROVEMENTS - DuPAGE COUNTY ROADWAY PLANS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILEL*	DRAWN - EAF	REVISED -	*					2010-119-GRR	DuPAGE	17	11	
PLOT SCALE = 30.0000' / IN.	CHECKED - RS	REVISED -	* VARIOUS ROUTES					CONTRACT NO. 60M56				
PLOT DATE = 11/9/2011	DATE - 11/10/2011	REVISED -	ILLINOIS FED. AID PROJECT									
								SCALE: 30	SHEET NO. 7 OF 8 SHEETS	STA. TO STA.		

p:\jobs\2011\2011_10_12-04\cod\site\den\00\01\60M56-ant-plan08.dgn
 11/9/2011 3:26:37 PM



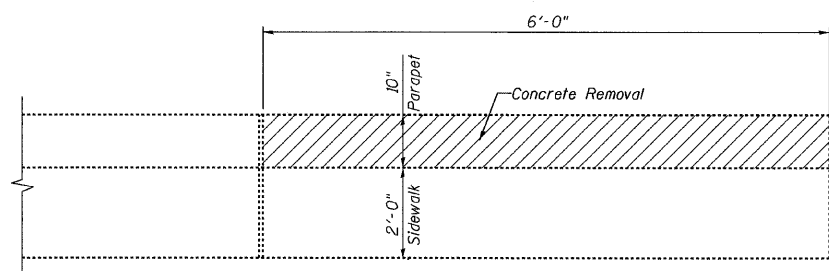
FILE NAME =	USER NAME = .USER.	DESIGNED - EAF	REVISED -
#FILEL#		DRAWN - EAF	REVISED -
	PLOT SCALE = 30.0000' / IN.	CHECKED - RS	REVISED -
	PLOT DATE = 11/9/2011	DATE - 11/10/2011	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

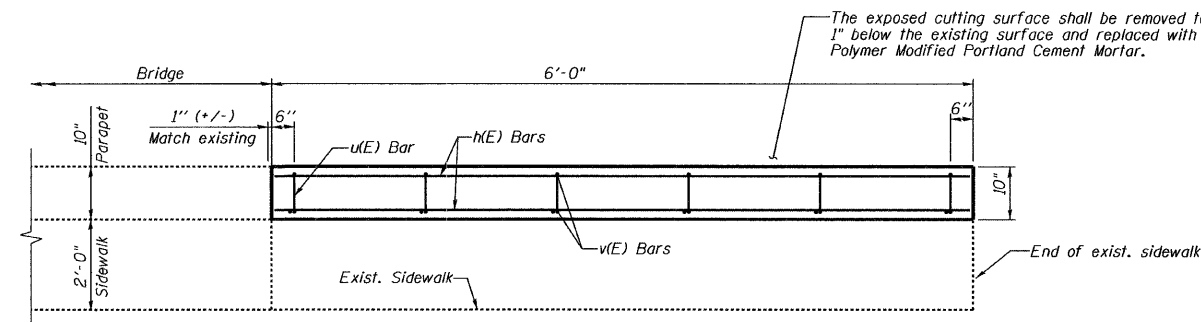
**GUARDRAIL IMPROVEMENTS - DuPAGE COUNTY
 ROADWAY PLANS**

SCALE: 30 SHEET NO. 8 OF 8 SHEETS STA. TO STA.

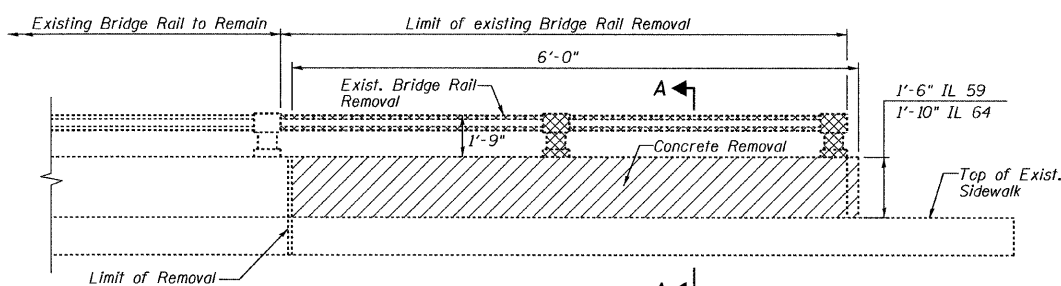
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	2010-119-GRR	DuPAGE	17	12
• VARIOUS ROUTES		CONTRACT NO. 60M56		
ILLINOIS FED. AID PROJECT				



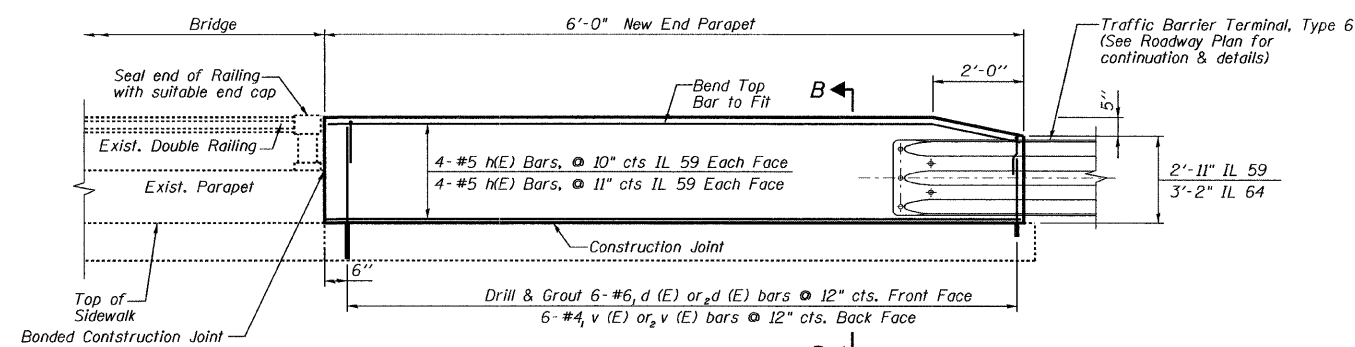
CONCRETE REMOVAL PLAN



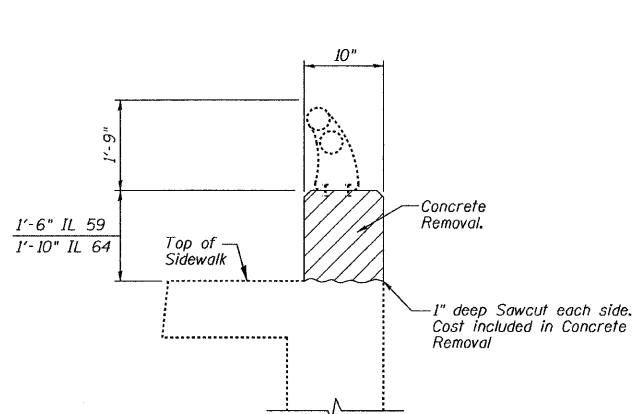
NEW END PARAPET PLAN



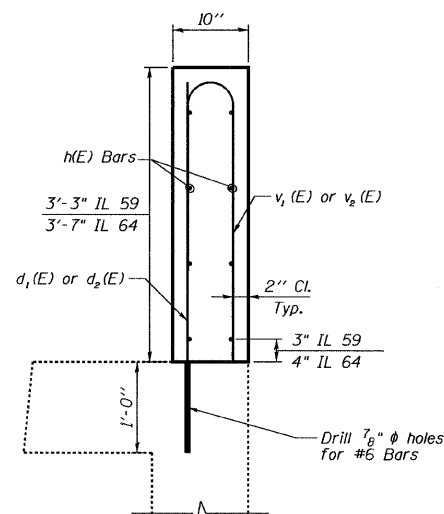
REMOVAL ELEVATION



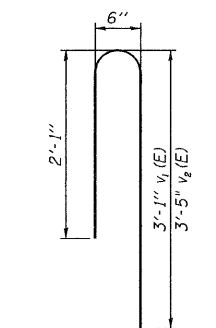
NEW END PARAPET ELEVATION (FRONT VIEW)



SECTION A-A



SECTION B-B



BARS v₁(E) & v₂(E)

NOTES

1. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr. 60. See Special Provisions.
2. Reinforcement bars designated (E) shall be epoxy coated.
3. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
4. Drilling and grouting bars shall be in accordance with Section 584 of the Standard Specifications.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d ₁ (E)	24	#6	4'-1"	—
d ₂ (E)	12	#6	4'-5"	—
h(E)	48	#5	5'-8"	—
v ₁ (E)	24	#4	5'-5"	↪
v ₂ (E)	12	#4	5'-9"	↪
Concrete Removal			Cu. Yd.	1.8
Bridge Rail Removal			LF	60
Concrete Superstructure			Cu. Yd.	3.7
Reinforcement Bars, Epoxy Coated			Pound	643
Drill and Grout Dowel Bars			Each	36

The quantities above include:
4 new end parapets for IL 59
2 new end parapets for IL 64

P:\Jobs\2011\20110302-04_CAD\Site\re.dgn 00\DI60M66-sht-1-wingwall.dgn
 1/9/2011 3:53:10 PM

GRÄEF
8501 N. Higgins Road, Suite 200
Chicago, Illinois 60631; (773) 399-0112

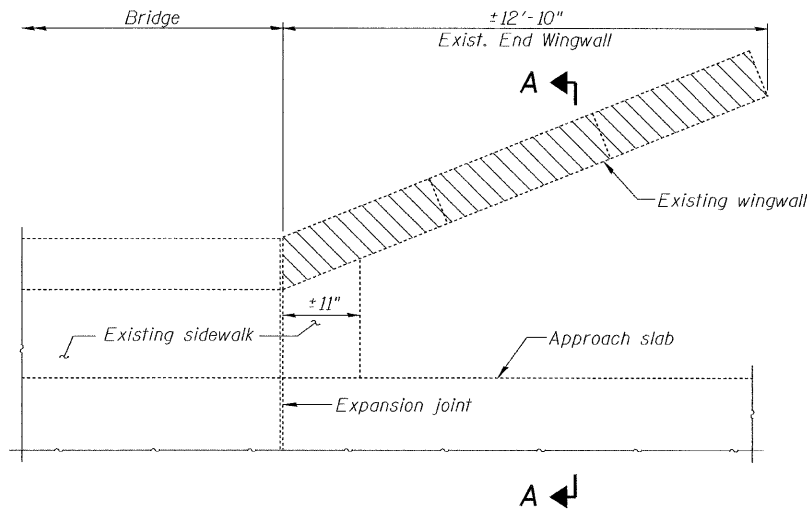
USER NAME =	DESIGNED - X.X.X. 11/10/2011	REVISED -
PLOT SCALE =	CHECKED - X.X.X. 11/10/2011	REVISED -
PLOT DATE =	DRAWN - X.X.X. 11/10/2011	REVISED -
	CHECKED - X.X.X. 11/10/2011	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

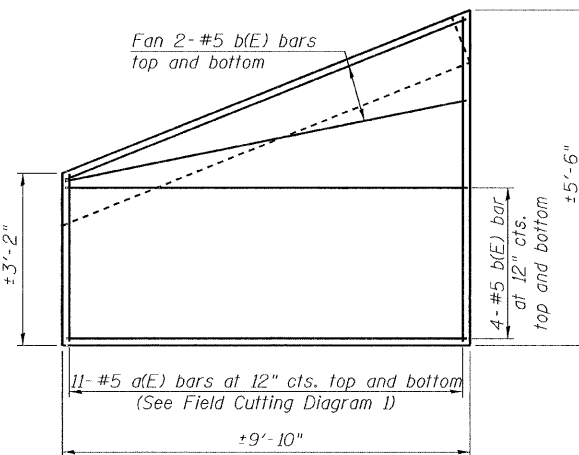
**END PARAPET RECONSTRUCTION
IL 59 OVER RR AND IL 64 OVER I-355**

SHEET NO. 1 OF 2 SHEETS

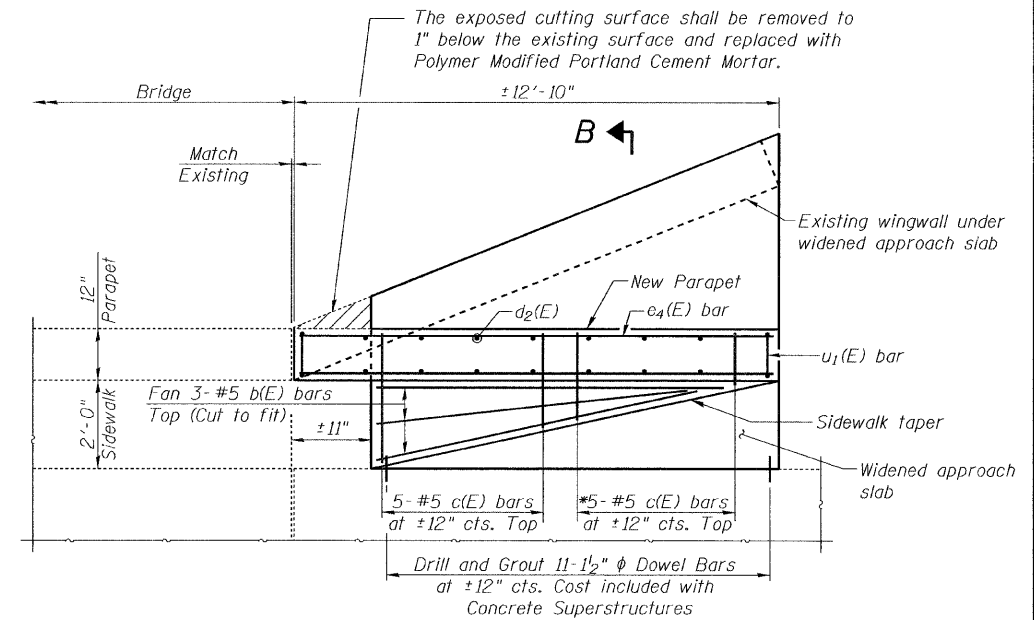
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2010-119-GRR	DUPAGE	17	13
VARIOUS ROUTES			CONTRACT NO. 60M56	
ILLINOIS FED. AID PROJECT				



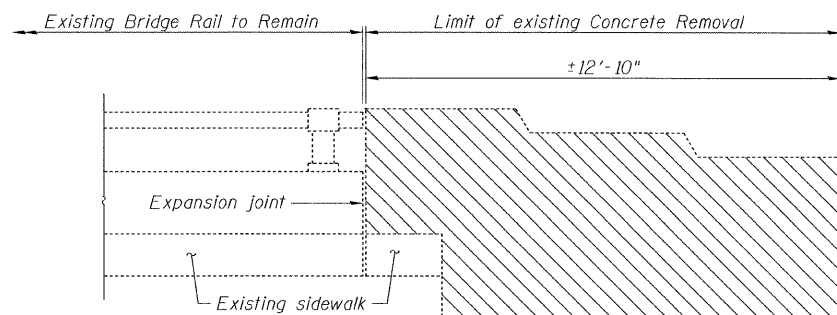
CONCRETE REMOVAL PLAN



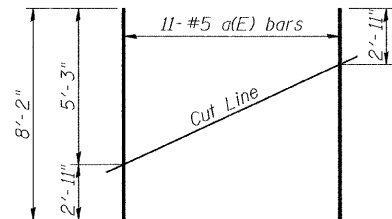
WIDENED APPROACH SLAB DETAIL



NEW END PARAPET PLAN

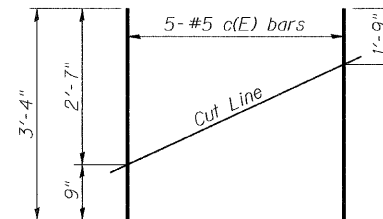


REMOVAL ELEVATION



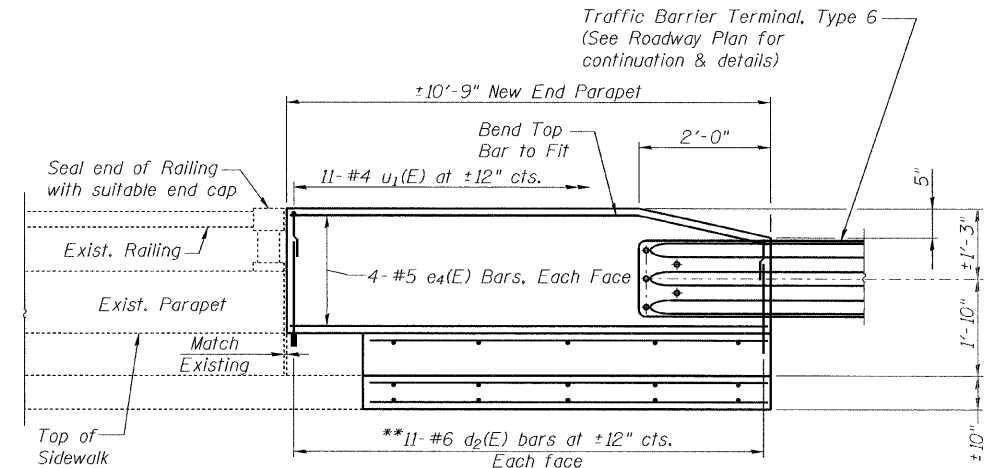
FIELD CUTTING DIAGRAM 1

Order a(E) full length. Cut as shown and use remainder of bars in bottom.

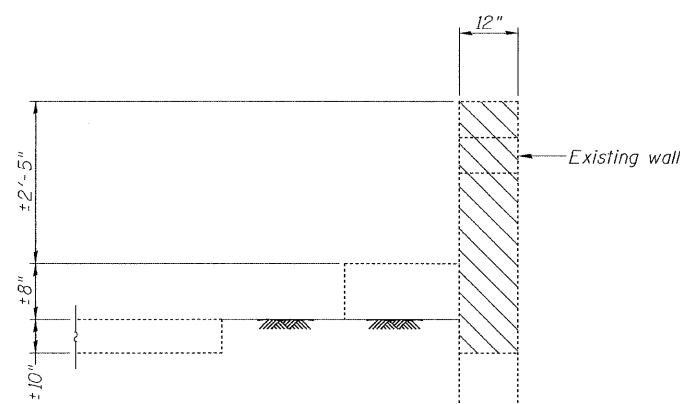


FIELD CUTTING DIAGRAM 2

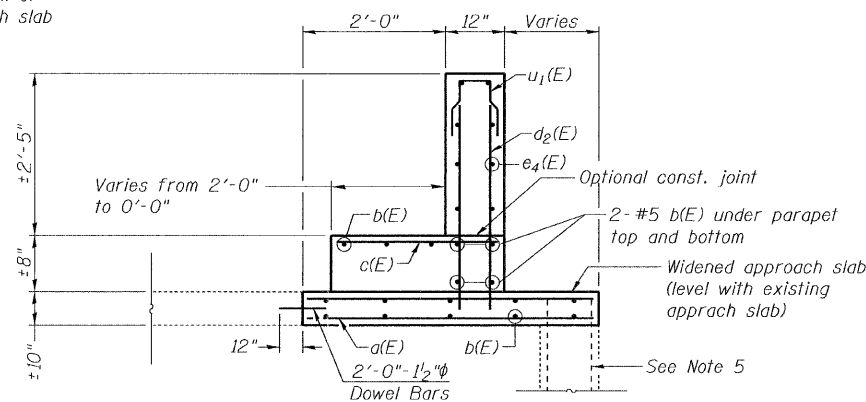
Order c(E) full length. Cut as shown and use remainder of bars in other end.



NEW END PARAPET ELEVATION



SECTION A-A



SECTION B-B

NOTES

1. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr. 60. See Special Provisions.
2. Reinforcement bars designated (E) shall be epoxy coated.
3. Plan dimensions and details are developed from survey data. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
4. Drilling and grouting bars shall be in accordance with Section 584 of the Standard Specifications.
5. Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	14	#5	8'-2"	—
b(E)	24	#5	9'-7"	—
c(E)	6	#5	3'-4"	—
d2(E)	28	#6	3'-0"	—
e4(E)	10	#5	10'-6"	—
u1(E)	14	#4	3'-2"	□
Concrete Removal			Cu. Yd.	1.5
Concrete Superstructure			Cu. Yd.	3.3
Reinforcement Bars, Epoxy Coated			Pound	645
Polymer Modified Portland Cement Mortar			Sq. Ft.	0.75
Protective Coat			Sq. Yd.	14.2

* See Field Cutting Diagram 2
 ** Drill and grout d2(E) bars into the portion of the existing sidewalk to remain in place.

n:\jobs\2011\20110302-04\CAD\Site\ogn\00\DI60M66-sht-Parapet102.dgn
 1/3/2011 3:52:51 PM

GRAEF
 8501 N. Higgins Road, Suite 200
 Chicago, Illinois 60631, (773) 399-0112

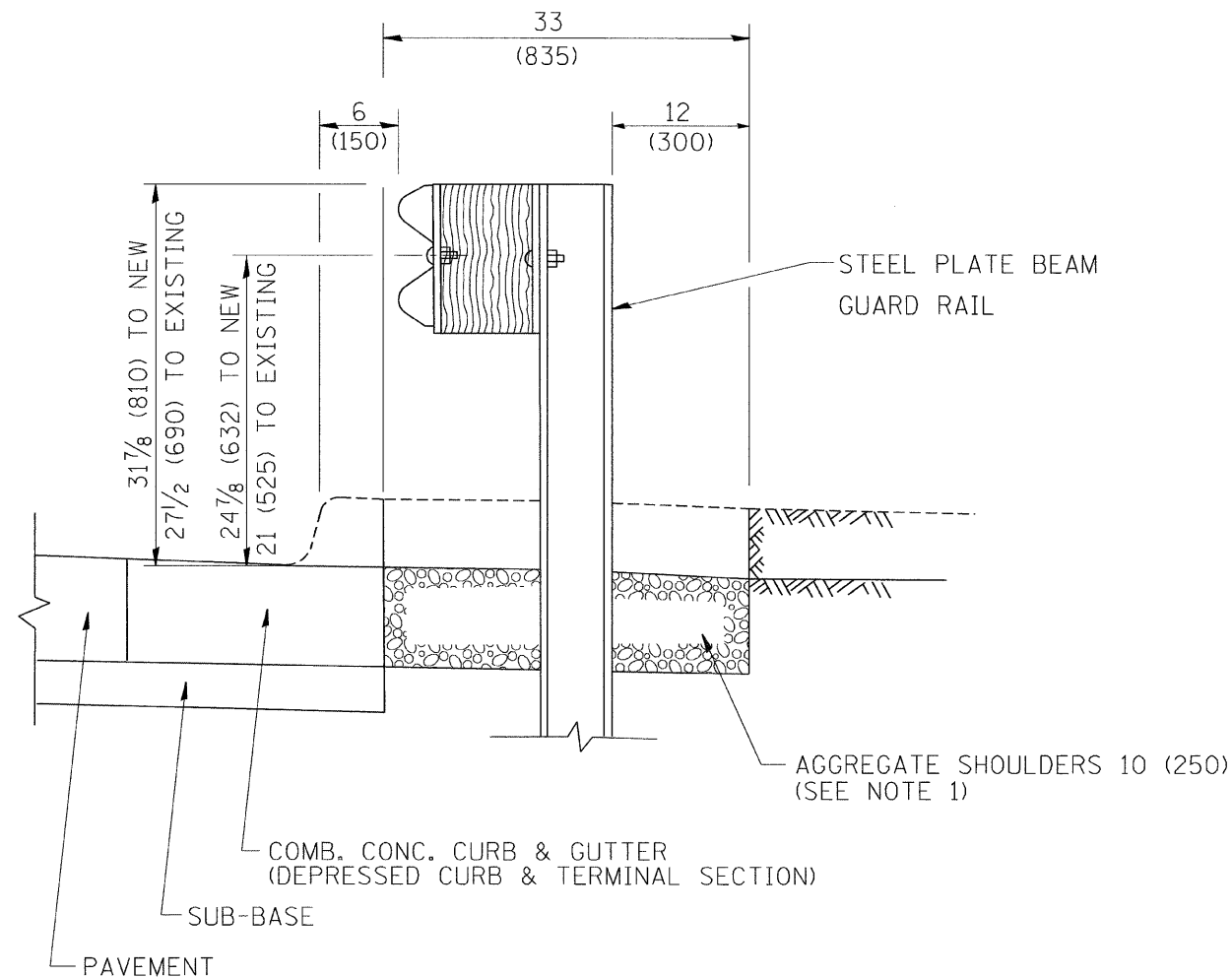
USER NAME =	DESIGNED - X.X.X. 11/10/2011	REVISED -
PLOT SCALE =	CHECKED - X.X.X. 11/10/2011	REVISED -
PLOT DATE =	DRAWN - X.X.X. 11/10/2011	REVISED -
	CHECKED - X.X.X. 11/10/2011	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**END PARAPET RECONSTRUCTION
 IL 56 OVER ROOSEVELT ROAD**

SHEET NO. 2 OF 2 SHEETS

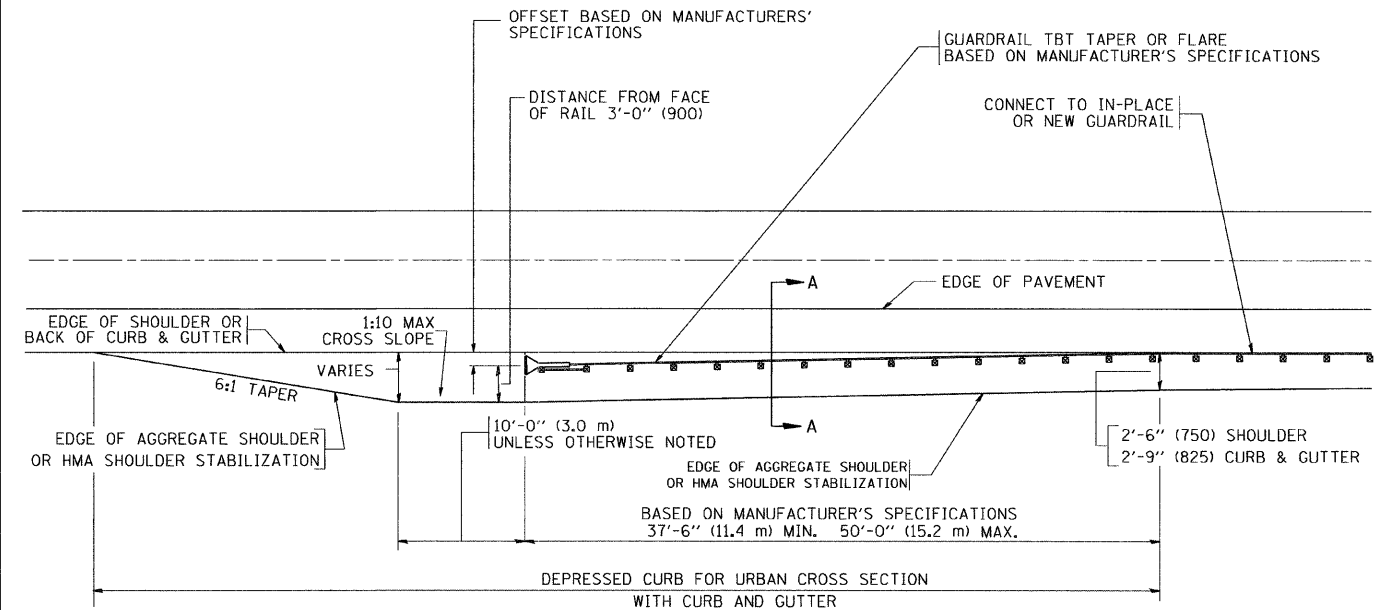
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2010-119-GRR	DUPAGE	17	14
* VARIOUS ROUTES			CONTRACT NO. 60M56	
ILLINOIS FED. AID PROJECT				



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. * VARIOUS ROUTES

FILE NAME =	USER NAME = drivaakosgn	DESIGNED - M. DE YONG	REVISED - E. GOMEZ 08-28-00
ca\p\work\PIWIDOT\DRIVAKOSGN\d0108315\bd34.dgn		DRAWN -	REVISED - R. BORO 01-01-07
	PLOT SCALE = 49.9999 1/16 IN.	CHECKED -	REVISED - R. BORO 12-08-2008
	PLOT DATE = 9/21/2009	DATE - 09-22-90	REVISED - R. BORO 09-14-2009

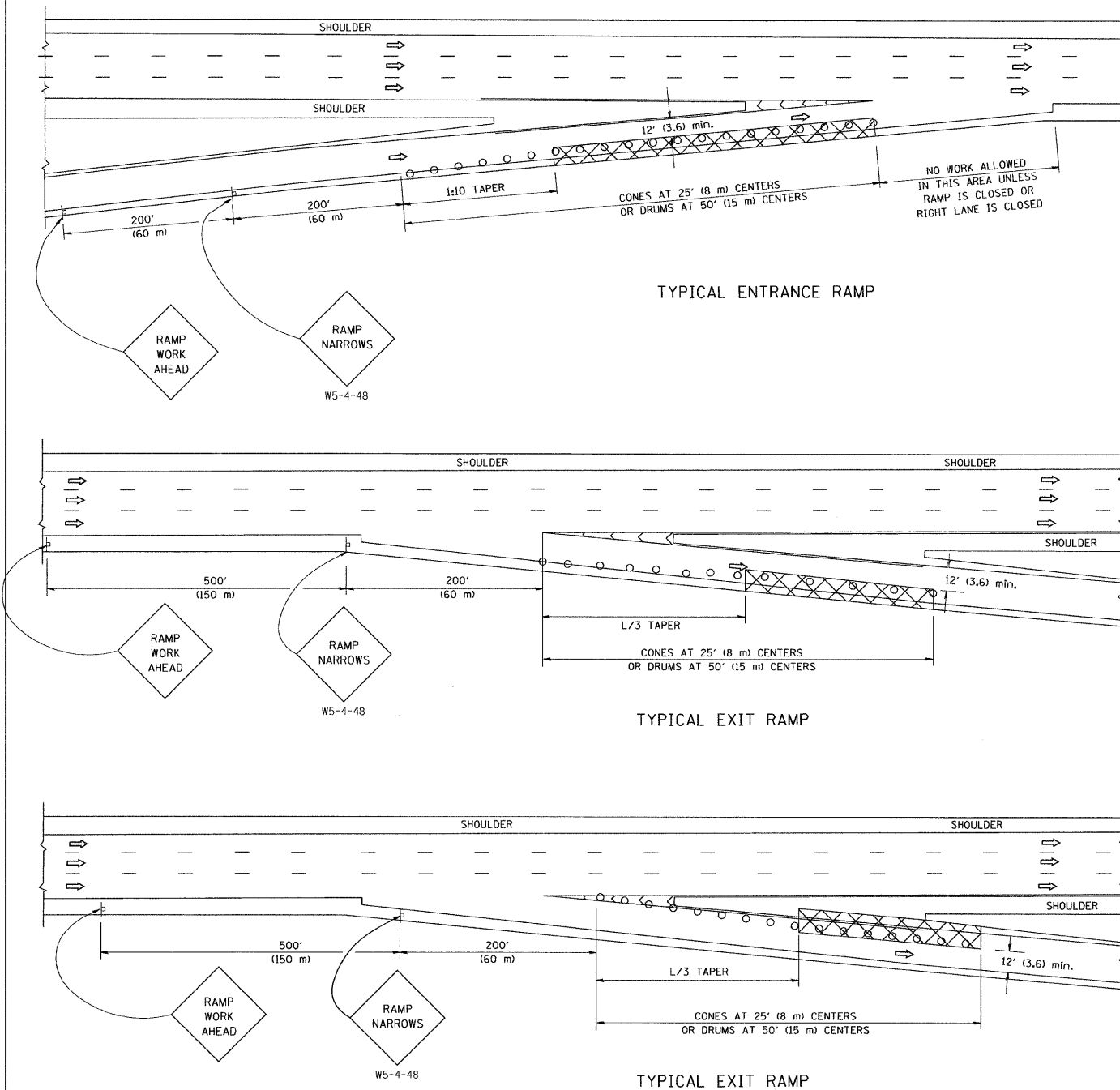
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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.
*	2010-119-GRR	DuPAGE	17	15
BD600-10 (BD 34)			CONTRACT NO. 60M56	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

PARTIAL RAMP CLOSURE DETAILS



SYMBOLS

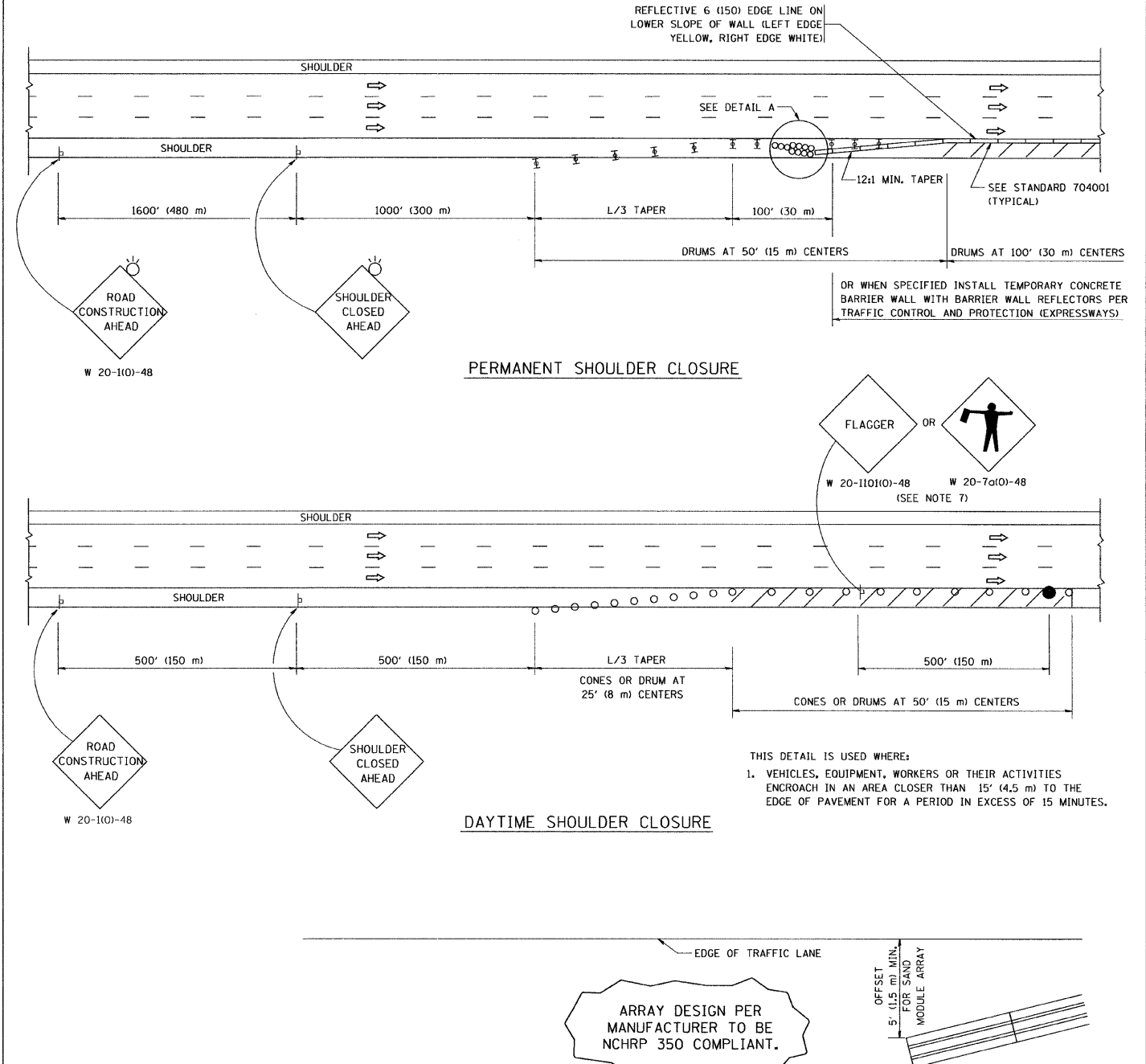
- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE

GENERAL NOTES

- THE "L" DISTANCE EQUALS:

SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER:	METRIC ENGLISH $L=0.65(W)(S)$ $L=(W)(S)$
	W = WIDTH OF OFFSET IN FEET (METERS) S = NORMAL POSTED SPEED MPH (KM/H)
- PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES.
- 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



ARRAY DESIGN PER MANUFACTURER TO BE NCHRP 350 COMPLIANT.

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

THIS DETAIL IS USED WHERE:
1. 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.

FILE NAME = W:\d1ststd\22x34\tcl7.dgn

USER NAME = leysa
PLOT SCALE = 50.0000' / IN.
PLOT DATE = 1/26/2010

DESIGNED -
DRAWN - D.W.S.
CHECKED -
DATE - 11-96

REVISED - 04-03
REVISED - J.A.F. 12-06
REVISED - S.P.B. 01-07
REVISED - S.P.B. 12-09

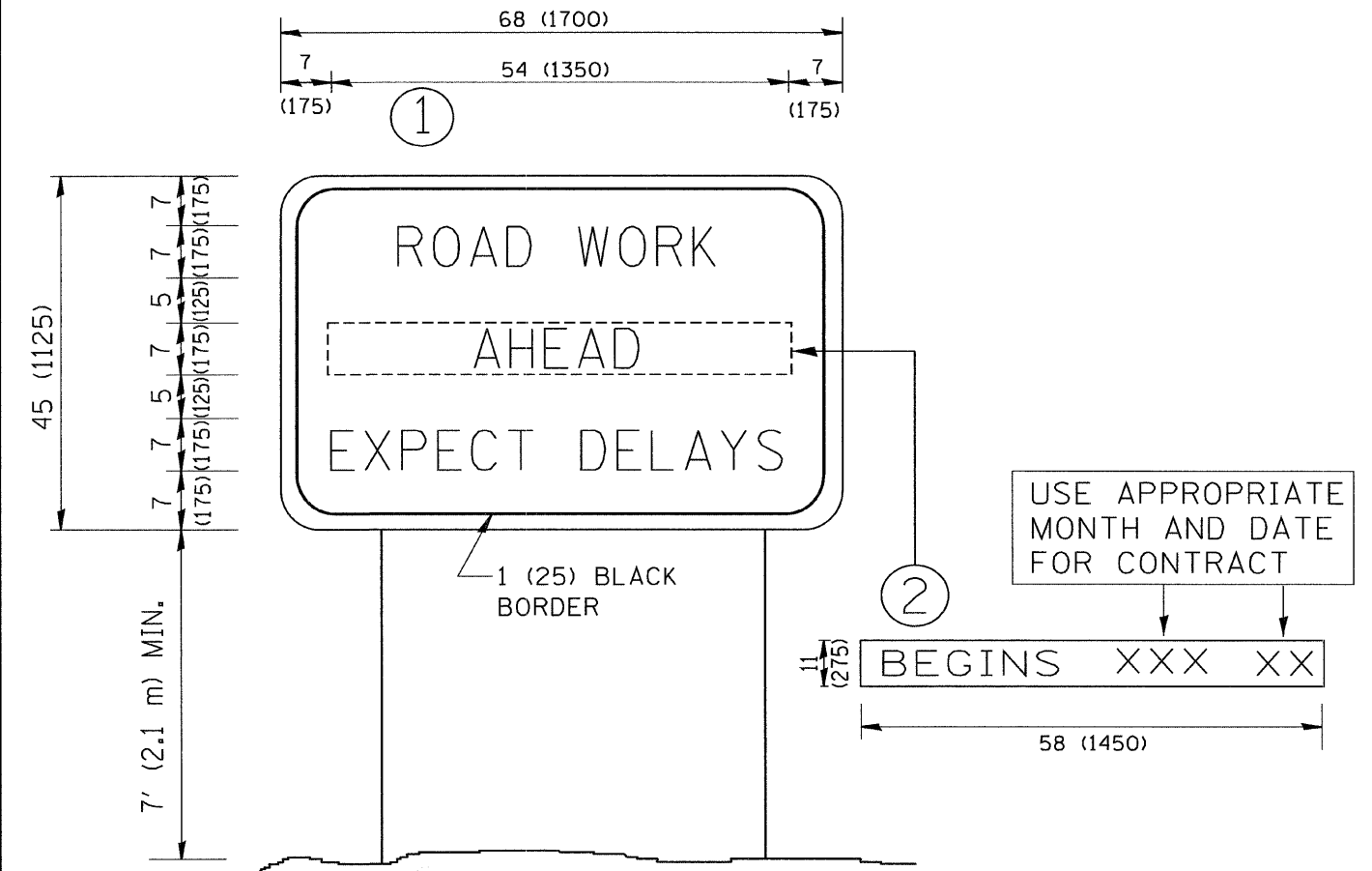
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY
SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2010-119-GRR	DuPAGE	17	16
TC-17			CONTRACT NO. 60M56	
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				

* VARIOUS ROUTES



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.

* VARIOUS ROUTES

FILE NAME - W:\dststd\22x34\ta22.dgn	USER NAME - geglanoht	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.
	PLOT SCALE = 50,000' / IN.	DRAWN -	REVISED - R. MIRS 12-11-97					*	2010-119-GRR	DuPAGE	17	17
	PLOT DATE = 1/4/2008	CHECKED -	REVISED - T. RAMMACHER 02-02-99					TC-22		CONTRACT NO. 60M56		
		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.			