01-15-2016 LETTING ITEM 004

FOR INDEX OF SHEETS, SEE SHEET NO. 2

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION **DIVISION OF HIGHWAYS** 

# **PROPOSED** HIGHWAY PLANS

FAI ROUTE 290: I-290 / US 20

**GUARDRAIL AND MISCELLANEOUS SAFETY IMPROVEMENTS** 

**SECTION: 2015-0111** 

I-355 TO I-294

PROJECT: ACHSIP-0290 (203) **DUPAGE COUNTY, COOK COUNTY** C-91-292-15

LOCATION MAP

N.T.S.

PROJECT LOCATED IN THE CITY OF ELMHURST AND THE VILLAGES OF ADDISON. ITASCA, AND HILLSIDE

TRAFFIC DATA

SPEED LIMIT: 55 M.P.H. ADT: 147,000 (2014)

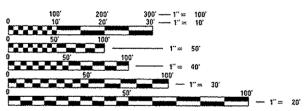
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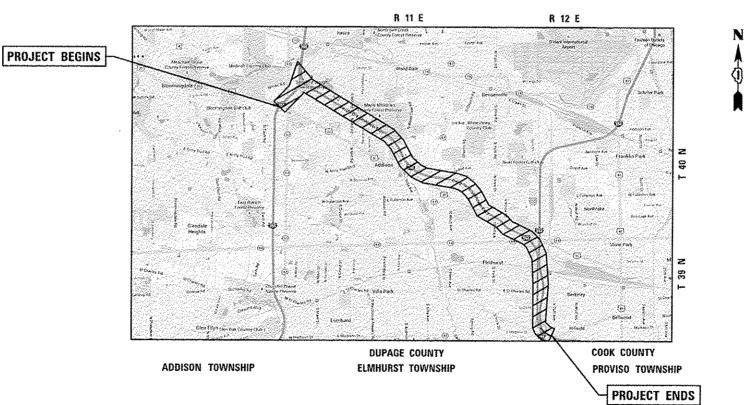
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

CHICAGO UTILITY ALERT NETWORK 1-312-744-7000

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

PROJECT ENGINEER: BENJAMIN HARTMAN (815) 385-1778 PROJECT MANAGER: DANIEL WILGREEN (847) 705-4240

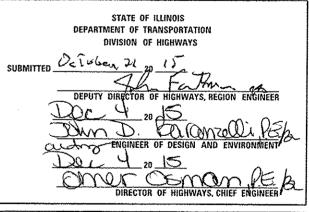
CONTRACT NO. 62A68

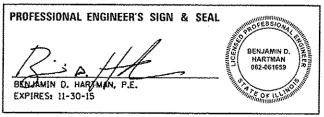


290 2015-0111 COOK/DUPAGE ZZ 1

D-91-292-15







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7	COOK AND DUPAGE COUNTIES GUARDRAIL LOCATION MAP	635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
8-9	GUARDRAIL IMPROVEMENTS ROADWAY PLANS	635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
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**	TREATMENT AT THE TY I SPL. (80-34)	701401-09	LANE CLOSURE, FREEWAY/EXPRESSWAY
12-15	REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL (BM-21)	701406-09	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
16	ENTRANCE AND EXIT RAMP CLOSURE DETAILS (TC-08)	701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS >= 45 MPH
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18-19	MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS (TC-12)	701400 07	45 MPH TO 55 MPH
20	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES (TC-17)	701426-07	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS >= 45 MPH
21	SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS (TC-18)	701428	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY
22	ARTERIAL ROAD INFORMATION SIGN (TC-22)	701901-04	TRAFFIC CONTROL DEVICES
	CHINELEM THE ADMINISTRA ASSESSMENT	720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS

#### GENERAL NOTES

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" (JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION) AT 8-1-1 OR DIGGER AT 612 744700 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.
- 2. REMOVAL OF DAMAGED MATERIALS WILL INCLUDE DISMANTLING, LOADING, HAULING AND DISPOSAL. THE WORK SITE WILL BE LEFT IN A SAFE AND ORDERLY CONDITION.
- 3. NO MATERIAL SHOULD BE LEFT ON OR NEAR THE ROADWAY DURING NON-WORKING HOURS.
- 4. ANY NECESSARY TRAFFIC CONTROL WILL BE PROVIDED BY THE CONTRACTOR.
- 5. 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.
- 6. GUARDRAIL MARKERS SHALL NOT BE ATTACHED TO TERMINAL SECTIONS.
- 7. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE CITY OF ELMHURST, VILLAGES OF ADDISON, ITASCA AND HILLSIDE, AND THE TOWNSHIPS OF ADDISON, ELMHURST AND PROVISO.
- 8. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- 9. THE REMOVAL OF CUARDRAIL TERMINAL SECTIONS SHALL BE INCLUDED IN THE UNIT PRICE PER FOOT FOR "CUARDRAIL REMOVAL."
- 10. ANY EARTHWORK REQUIRED FOR THE INSTALLATION OF THE GUARDRAIL, TRAFFIC BARRIER TERMINALS, OR IMPACT ATTENUATORS SHALL BE IN ACCORDANCE WITH THE STANDARDS AND DETAILS IN THE PLANS AND WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE ITEM BEING INSTALLED.
- 11. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.
- 12. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- 13. THE RESIDENT ENGINEER SHALL CONTACT THE EXPRESSWAY FIELD ENGINEER AT (847) 705-4153 A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- 14. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4155 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- 15. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- 16. THE CONTRACTOR SHALL VERIFY THE EXISTING TYPE/HEIGHT OF EXISTING GUARDRAIL BEFORE ORDERING THE NEW TERMINAL SECTION. COST INCLUDED WITH THE COST OF THE TERMINAL. THE TERMINAL SECTION SHALL MATCH THE HEIGHT OF THE EXISTING GUARDRAIL.
- 17. BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT) ACCORDING TO THE "BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
- 18. THE WORK ASSOCIATED WITH THE PREPARATION OF BASE AND SUBGRADE FOR THE PROPOSED IMPACT ATTENUATORS SHALL BE COMPLETED PER MANUFACTURERS SPECIFICATIONS AND RECOMMENDATIONS AND SHALL BE INCLUDED IN THE COST FOR "IMPACT ATTENUATORS", OF THE TYPE SPECIFIED.

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RTE.	F.A.I. SECTION					COL	INTY	TOTAL SHEETS	SHEET NO.
290	290 2015-0111				C	QQK /	OUP AGE	22	2
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SUMMARY OF QUANTITIES	RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
	290	2015-0111	COOK/DUPAGE	22	3
CALE: N.T.S. SHEET NO. 1 OF 2 SHEETS STA. TO STA.	FED. RO	DAO DIST. NO.   ILLINOIS FED. 4		NO.	62A68

		manufacture de la constitución d	URBAN	DUPAGE CO. SAFETY 90% FED 10% STATE	COOK CO.  SAFETY  90% FED  10% STATE
PAYCODE	ITEM DESCRIPTION	UNIT	OUANTITIES	0021	0021
40600982	MOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	56	66	0
W 844					
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SO YO	260	260	0
40603565	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70	TON	687	687	0
40800025	BITUMINOUS MATERIALS (PRIME COAT)	POUND	2,839	2,839	0
44000157	HOT-NIX ASPHALT SURFACE REMOVAL, 2"	50 YD	1,945	1,945	0
44001980	CONCRETE BARRIER REMOVAL .	FOOT	15	15	0
44004250	PAVED SHOULDER REMOVAL				
	A TOU SHOULDER REMOVAL	SO YD	334	334	0
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	1,280	1,280	0
· · · · · · · · · · · · · · · · · · ·					
48102100	ACCREGATE WEDGE SHOULDER, TYPE B	TON	106	97	9
48203037	HOT-MIX ASPHALT SHOULDERS. 10"	\$0 YD	300	300	0
		<u> </u>			
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	F007	1,175.0	1.025.0	150.0
63000017	STEEL PLATE BEAM GUARDRAIL, TYPE D. 6 FOOT POSTS	F001	25.0	0.0	25.0
	·				
63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	5	4	
63100089	TRAFFIC BARRIER TERMINAL, TYPE 6B	EACH			•
				0	1
63100105	TRAFFIC BARRIER TERMINAL. TYPE 10	EACH	1	0	1
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANCENT	EACH	80	7	
			3	,	1
63200310	GUARDRAIL REMOVAL	FOOT	112.5	. 112.5	<b></b>
63500105	DELINEATORS	EACH	20	20	<b>&gt;</b>
64300110	IMPACT ATTENUATORS (SEVERE USE, NARROW), TEST LEVEL 3	EACH	4	3	3
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	5	1
67100100	MOBILIZATION	LSUM	1	0.8	^2
				V.0	0.2

DUPAGE CO. URBAN CODK CO. SAFETY SAFETY TOTAL 10% STATE IOX STATE PAYCODE ITEM DESCRIPTION OUANTITIES 0021 0021 70300100 SHORT TERM PAVEMENT MARKING FOOT 351 35} 0 70301000 WORK ZONE PAVEMENT MARKING REMOVAL SO FT 117 117 0 THERMOPLASTIC PAVEMENT MARKING - LINE 4" 78000200 FOOT 2,568 2,568 0 78000500 THERMOPLASTIC PAVEMENT MARKING - LINE 8" FOOT 400 0 78000600 THERMOPLASTIC PAVEMENT MARKING - LINE 12" F001 189 189 0 PREFORMED PLASTIC PAVEMENT MARKING, TYPE 8 - INLAID - LINE 5" FOOT 321 0 78004220 321 78100100 RAISED REFLECTIVE PAVEMENT MARKER EACH 42 42 0 78200410 GUARDRAIL MARKERS. TYPE A EACH 43 12 78201000 TERMINAL MARKER - DIRECT APPLIED EACH 8 ? 1 78300200 RAISED REFLECTIVE PAVEMENT MARKER REMOVAL EACH 42 42 0 VERTICAL ADJUSTMENT OF TRAFFIC BARRIER TERMINAL X5330200 EACH 2 2 0 VERTICAL ADJUSTMENT OF CUARDRAIL x6330900 FODT 350 350 Q REMOVE IMPACT ATTENUATORS, NO SALVAGE X6430120 EACH 0 x6431120 REMOVE IMPACT ATTENUATOR SAND MODULE EACH 16 9 TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS) LSUM 1 0.8 0.2 X7830070 GROOVING FOR RECESSED PAVEMENT MARKING 5" FOOT 321 321 0 Z0030850 TEMPORARY INFORMATION SIGNING SO FT 52 0 \* 66900200 NON. SPECIAL WASTE DISPOSAL CUYD \* 66900450 SPECIAL WASTE PLANS AND REPORTS SUM \* 66900530 SOIL DISPOSAL ANALYSIS EACH

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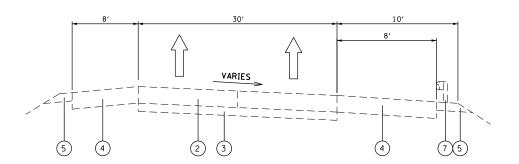
SPECIALTY ITEMS

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

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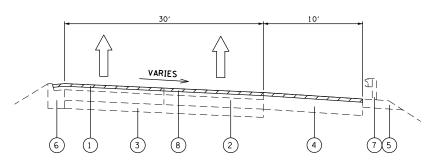
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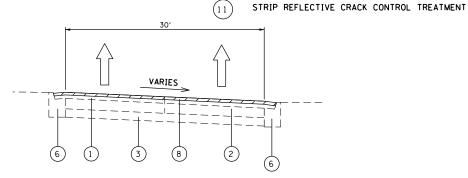
## **EXISTING TYPICAL SECTION**

EB I-290 EXIT RAMP TO IL-64/US-20 STA 102+80 TO STA 110+98



## **EXISTING TYPICAL SECTION**

EB I-290 EXIT RAMP TO IL-64/US-20 STA 113+70 TO STA 115+22



**LEGEND** 

(2)

(3)

(5)

(6)

EXISTING HMA OVERLAY, ± 3-1/4"

EXISTING AGGREGATE SUB-BASE

EXISTING AGGREGATE SHOULDER

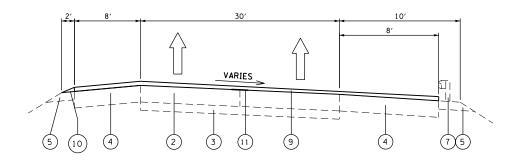
EXISTING HOT-MIX ASPHALT SHOULDER, 10"

EXISTING COMB. CONC. CURB & GUTTER EXISTING STEEL PLATE BEAM GUARDRAIL HOT-MIX ASPHALT SURFACE REMOVAL, 2" POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70 (IL-9.5mm); 2" AGGREGATE WEDGE SHOULDER, TYPE B

EXISTING P.C.C. PAVEMENT

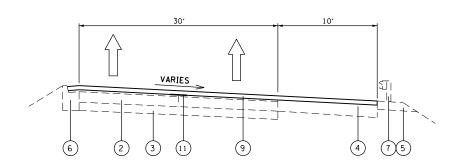
#### **EXISTING TYPICAL SECTION**

EB I-290 EXIT RAMP TO IL-64/US-20 STA 115+22 TO STA 118+36



#### **PROPOSED TYPICAL SECTION**

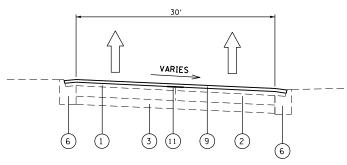
EB I-290 EXIT RAMP TO IL-64/US-20 STA 102+80 TO STA 110+98



### PROPOSED TYPICAL SECTION

EB I-290 EXIT RAMP TO IL-64/US-20 STA 113+70 TO STA 115+22

HOT-MIX ASPHALT MIXTURE REQUIREMENTS									
MIXTURE TYPE	AIR VOIDS • Ndes	QUALITY MANAGEMENT PROGRAM (QMP)							
PAVEMENT RESURFACING									
POLYMERIZED HMA SURFACE COURSE, MIX "E", N70 (IL-9.5mm); 2"	4.0% @ 70 GYR.	QC/QA							
HMA SHOULDER									
HOT-MIX ASPHALT SHOULDER, 10"	4.0% @ 70 GYR.	QC/QA							
OMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA	١.								



#### **PROPOSED TYPICAL SECTION**

EB I-290 EXIT RAMP TO IL-64/US-20 STA 115+22 TO STA 118+36

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

THE AC TYPE FOR POLYMERIZED HMA MIXTURES SHALL BE "SBS/SBR PG 76 -22", FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

CONTRACT NO. 62A68

FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT

FOR USE OF RECYCLED MATERIALS SEE DISTRICT ONE SPECIAL PROVISIONS.

QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL

TO STA.

**HRGreen** 

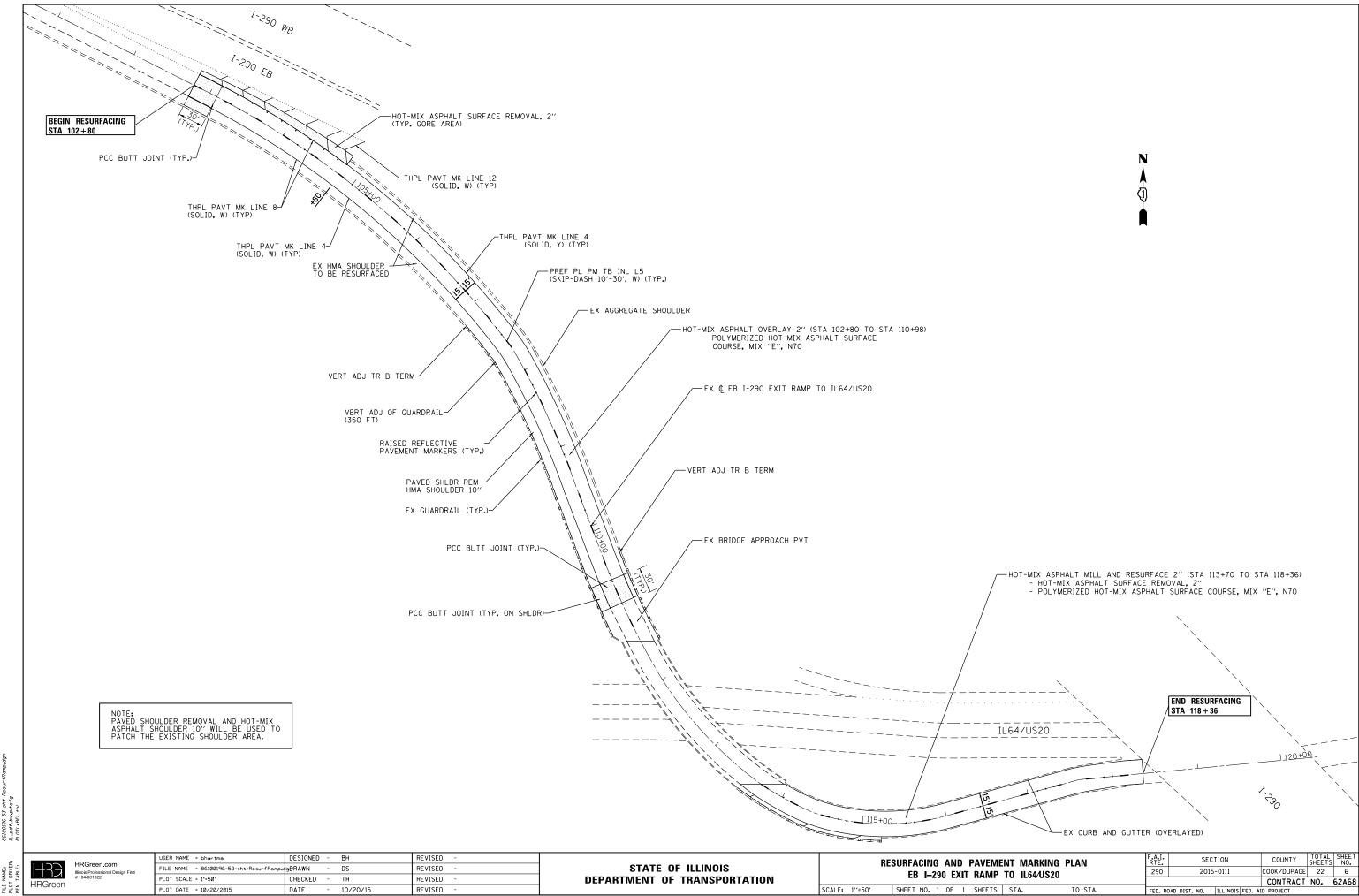
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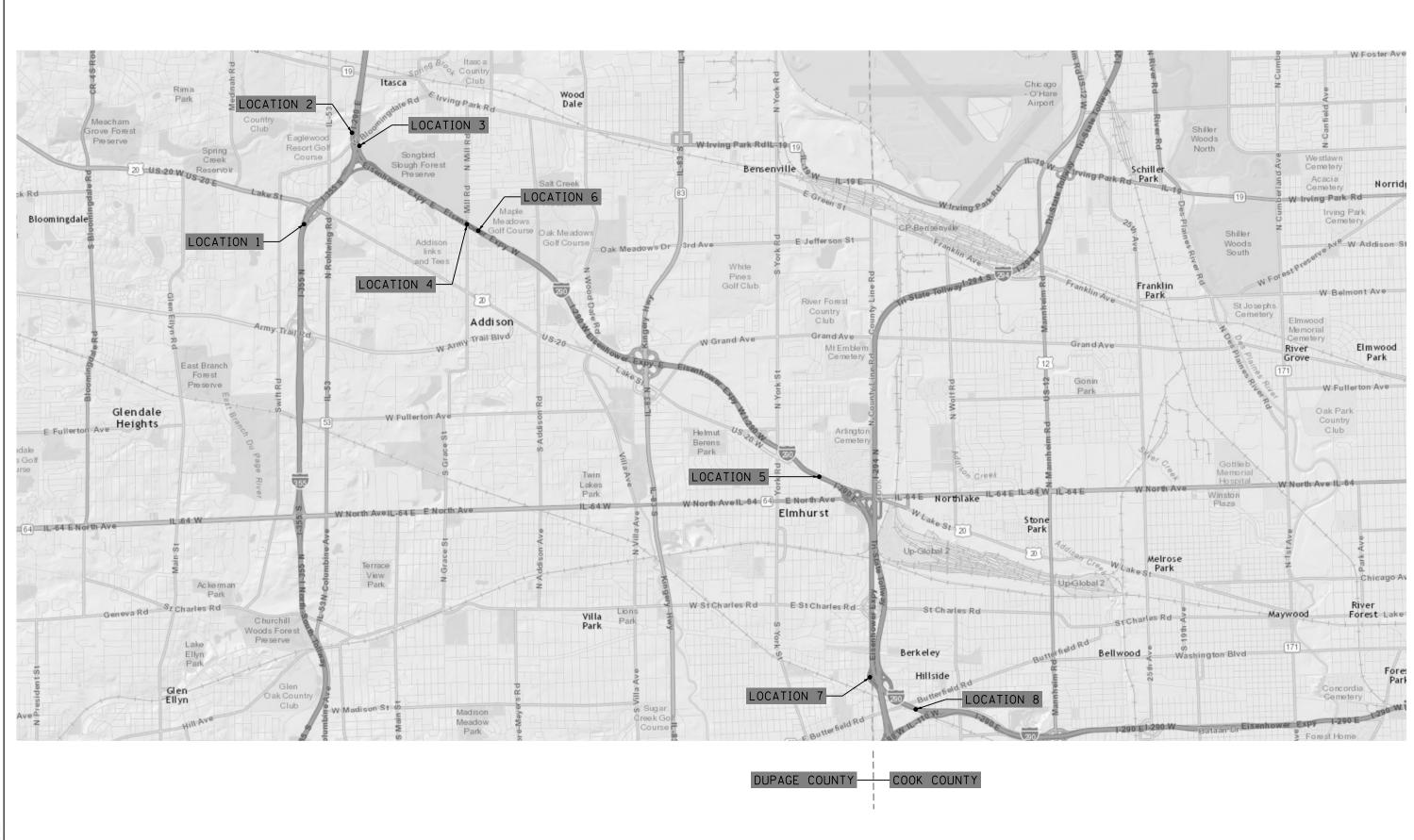
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

QUALITY CONTROL FOR PERFORMANCE (QCP)

SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.	1 AIX I	TODEAN GOALITT CONTI	VOL.		
TYPICAL SECTIONS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	290	2015-0111	COOK/DUPAGE	22	5

SHEET NO. 1 OF 1 SHEETS STA.





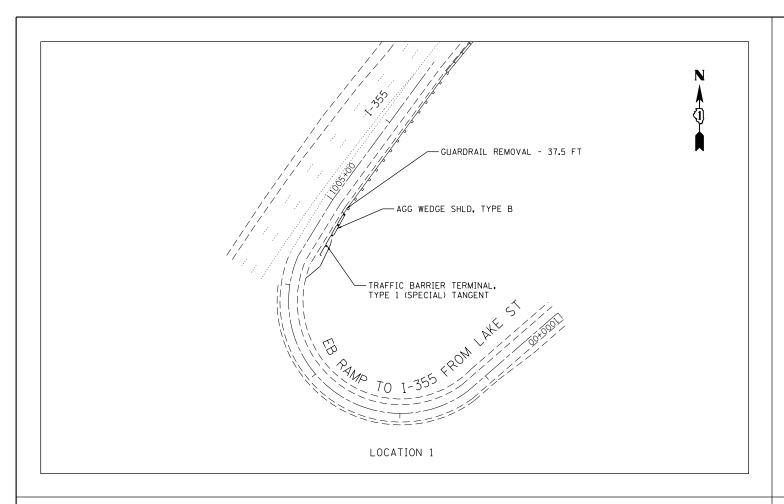
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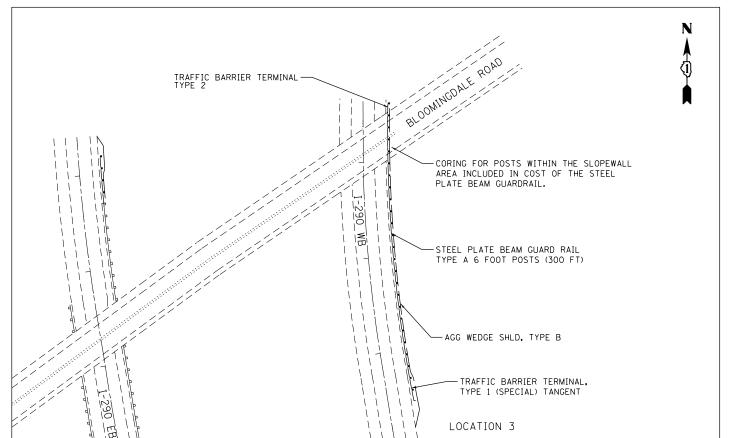
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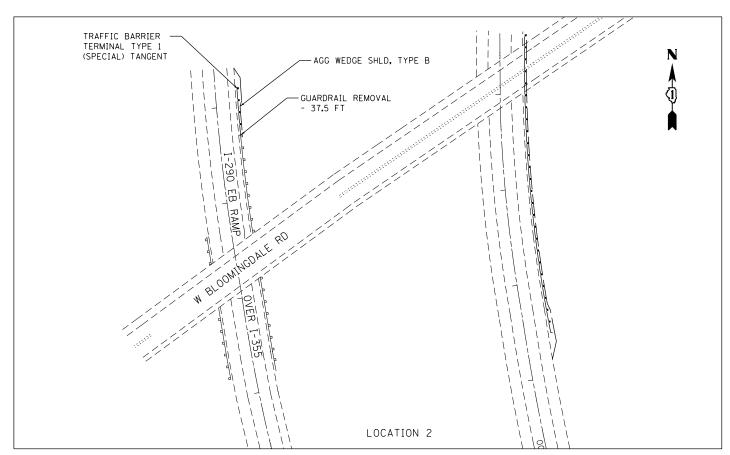
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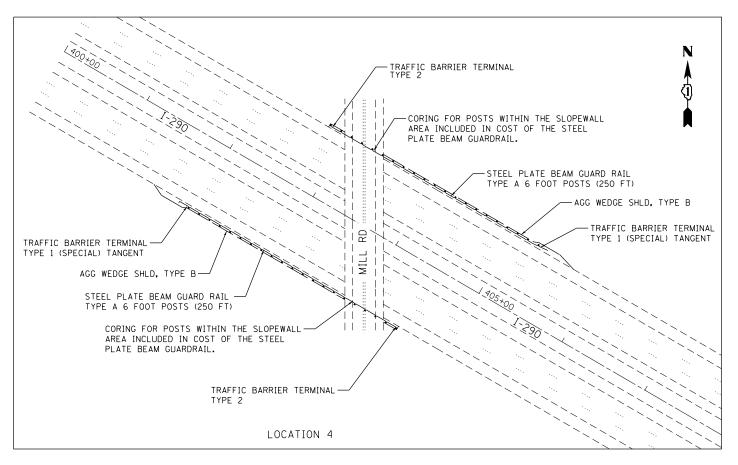
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



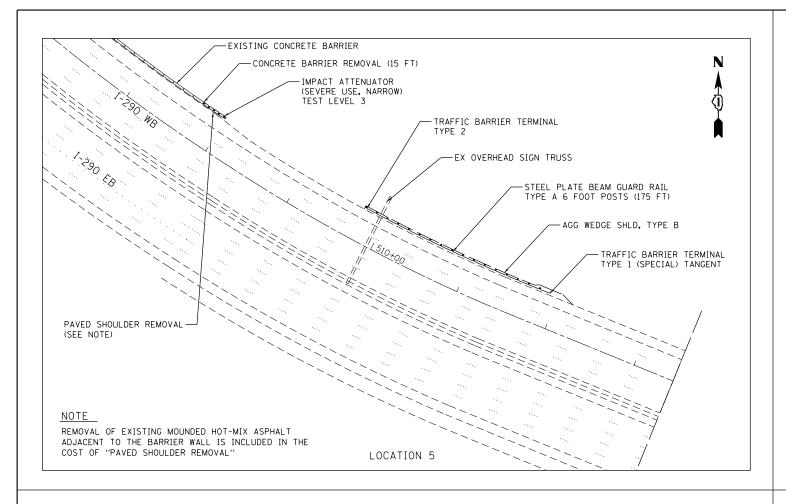


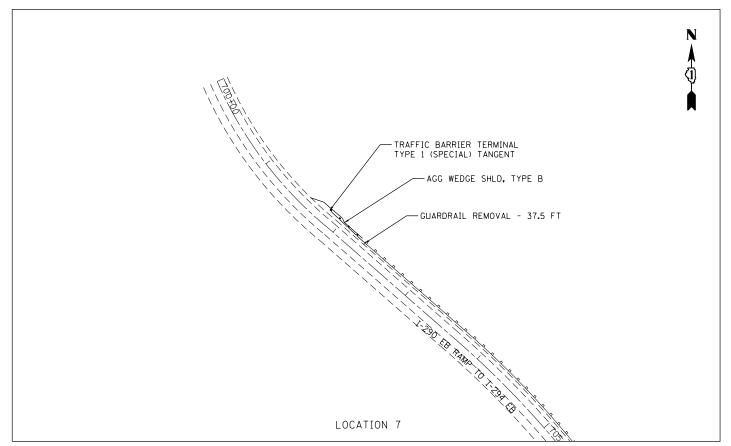


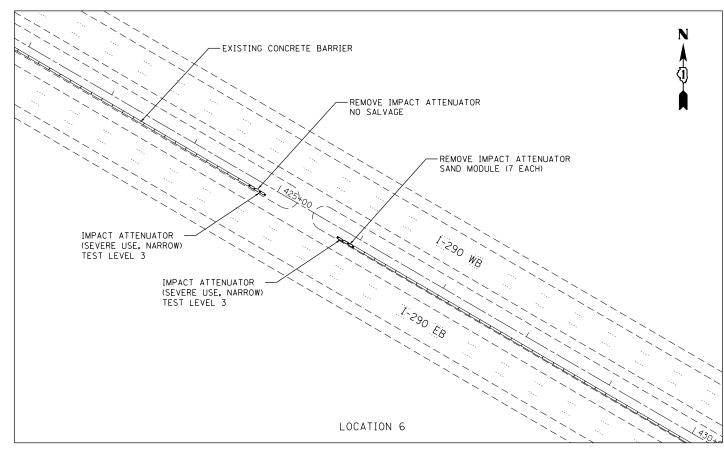


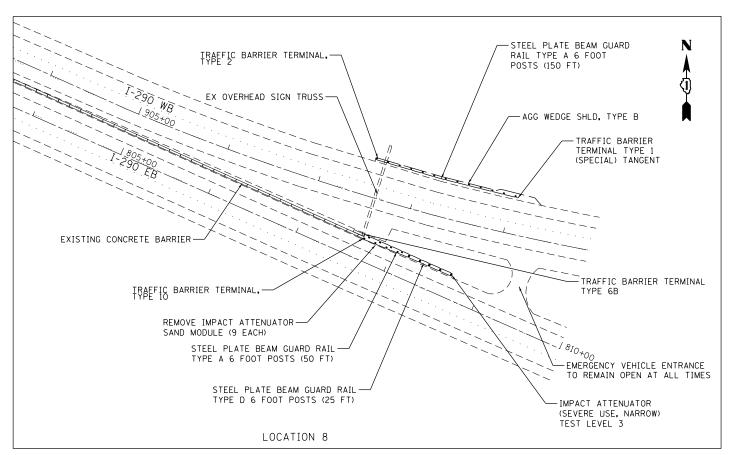
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	290	2015	-011I	COOK/DUPAGE	22	8			
				CONTRACT	NO.	62A68			
SCALE: 1"=50"	SHEET NO. 2 OF 3 SHEETS	STA.	TO STA.	FED. RO	AD DIST. NO.	ILLINOIS FED. AI	D PROJECT		







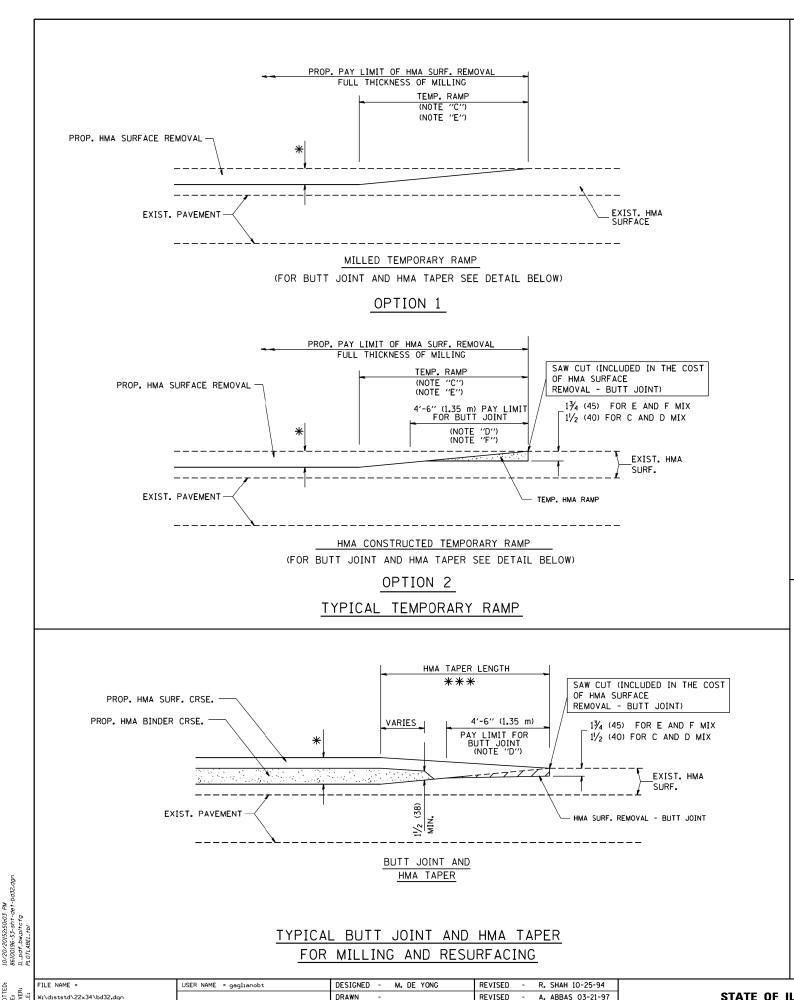


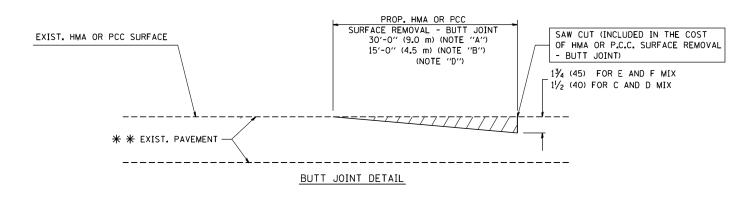
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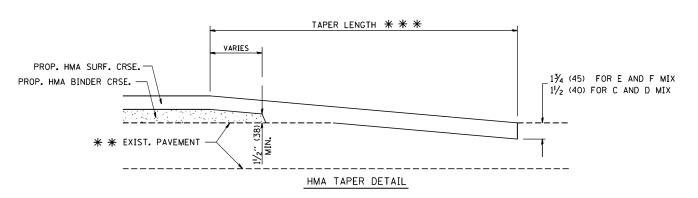
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	GUARDRAIL IMPROVEMENTS – COOK AND DUPAGE COUNTY ROADWAY PLANS						F.A.I. SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
							290	2015-0111	COOK/DUPAGE	22	9	
									CONTRACT	NO.	62A68	
	SCALE:	1''=50'	SHEET NO. 3 OF	3	SHEETS	STA.	TO STA.	FED. RC	DAD DIST. NO.   ILLINOIS FED. A	ID PROJECT		







## TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

**BUTT JOINT AND** 

HMA TAPER DETAILS

TO STA.

SHEET NO. 1 OF 1 SHEETS STA.

\* \* PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

#### NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B: MINOR SIDE ROADS.
- C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
- G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- \* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- \*\* \* 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A") 10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

#### BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER)
FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".

SCALE: NONE

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

CONTRACT NO. 62A68

SECTION COUNTY COOK/DUPAGE 22 10 2015-0111 BD400-05 BD32

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

PLOT SCALE = 50.0000 '/ IN.

PLOT DATE = 1/4/2008

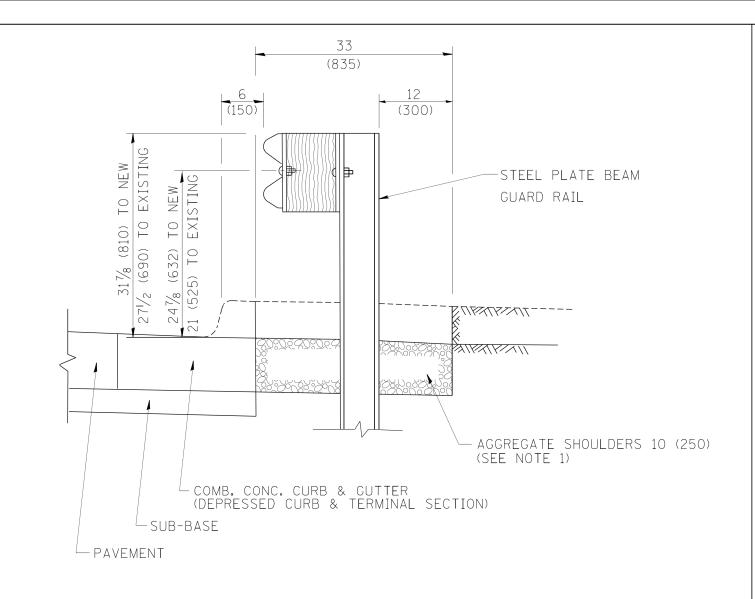
CHECKED

06-13-90

DATE

REVISED - M. GOMEZ 04-06-01

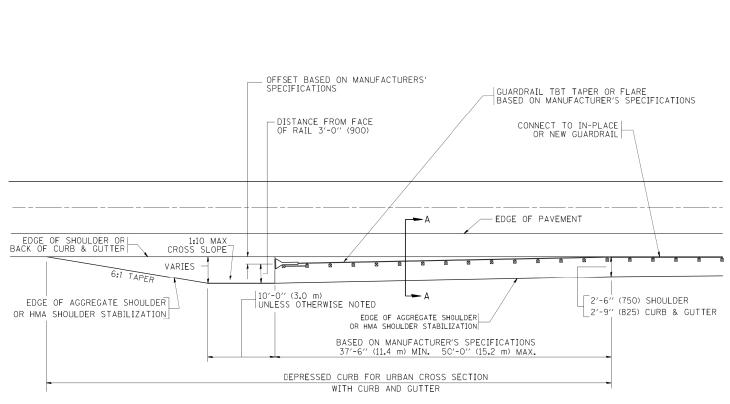
REVISED - R. BORO 01-01-07



## 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

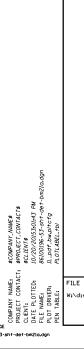
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

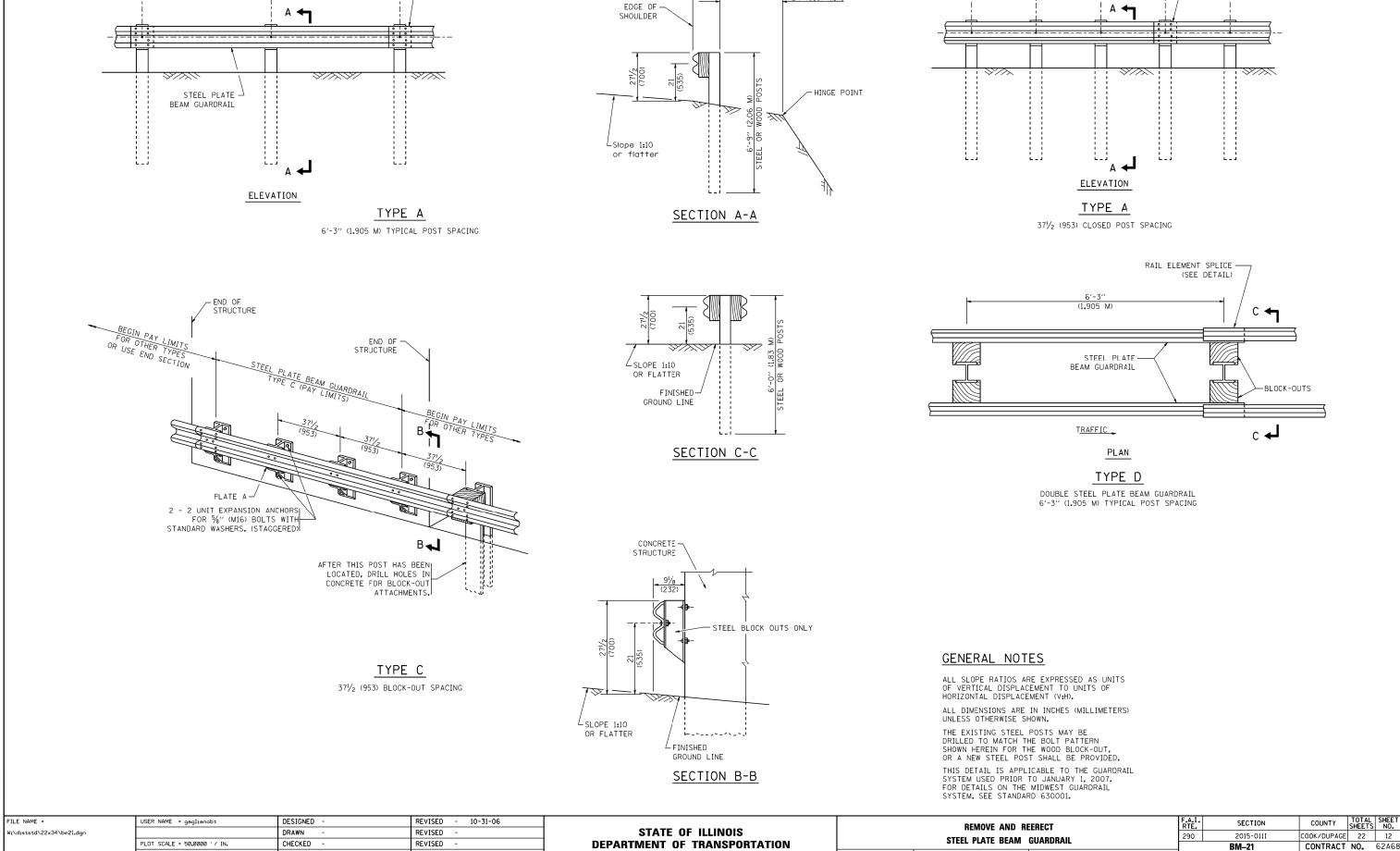
JSER NAME = drivakosgn DESIGNED M. DE YONG REVISED E. GOMEZ 08-28-00 DRAWN REVISED R. BORO 01-01-07 CHECKED REVISED R. BORO 12-08-2008 DATE 09-22-90 R. BORO 09-14-2009 REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

DETAILS FOR DEPRESSED CURB & GUTTER AND SHOULDER TREATMENT AT TBT TY 1 SPL. SHEET NO. 1 OF 1 SHEETS STA. SCALE: NONE TO STA.

COUNTY COOK/DUPAGE 22 11 290 2015-0111 BD600-10 (BD 34) CONTRACT NO. 62A68





\_ 24 (610) MIN.

SHEET NO. 1 OF 4 SHEETS STA.

TO STA.

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

SCALE: NONE

RAIL ELEMENT SPLICE — (SEE DETAIL)

REVISED

(1.905 M)

6′-3′′ (1.905 M)

PLOT DATE = 1/4/2008

DATE

RAIL ELEMENT SPLICE -

(SEE DETAIL)

FILE NAME = USER NAME = gaglianobt DESIGNED -REVISED - 10-31-06 W:\diststd\22x34\bm21.dgn DRAWN REVISED PLOT SCALE = 50.0000 '/ IN. CHECKED REVISED DATE PLOT DATE = 1/4/2008 REVISED

6 (152)

POST BOLT WITH-STD. HEX NUT

> STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL SCALE: NONE SHEET NO. 2 OF 4 SHEETS STA. TO STA.

290 2015-0111 BM-21 FED. ROAD DIST. NO. 1 | ILLINOIS FED. AID PROJECT

 
 COUNTY
 TOTAL SHEETS NO.

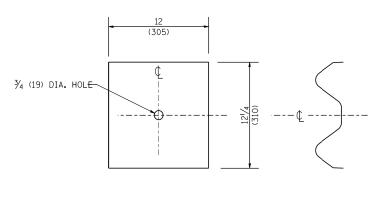
 COOK/DUPAGE
 22
 13

 CONTRACT
 NO.
 62A68
 SECTION



W6×9 (W150×13.5) OR W6×8.5 (W150×12.75)

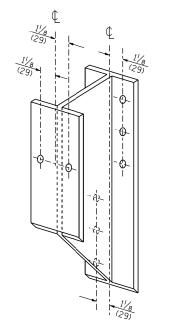
STEEL POST



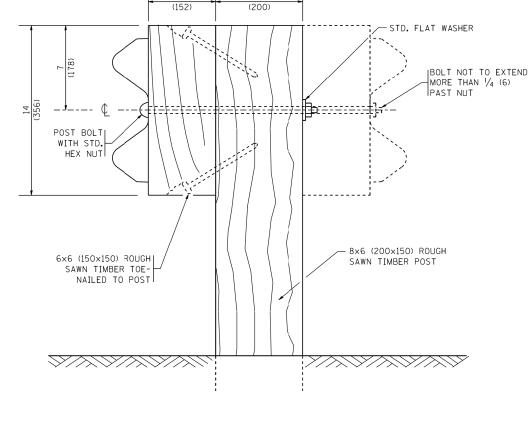
## NOTE:

STEEL POST CONSTRUCTION

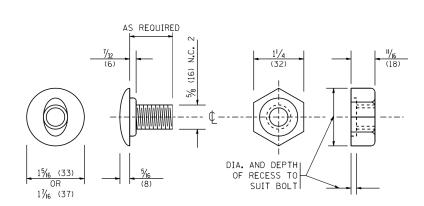
PLATE A SHALL BE PLACED BETWEEN RAIL ELEMENT AND BLOCK-OUT AT NON-SPLICE MOUNTING POINTS ONLY WHEN STEEL BLOCK-OUTS ARE USED.



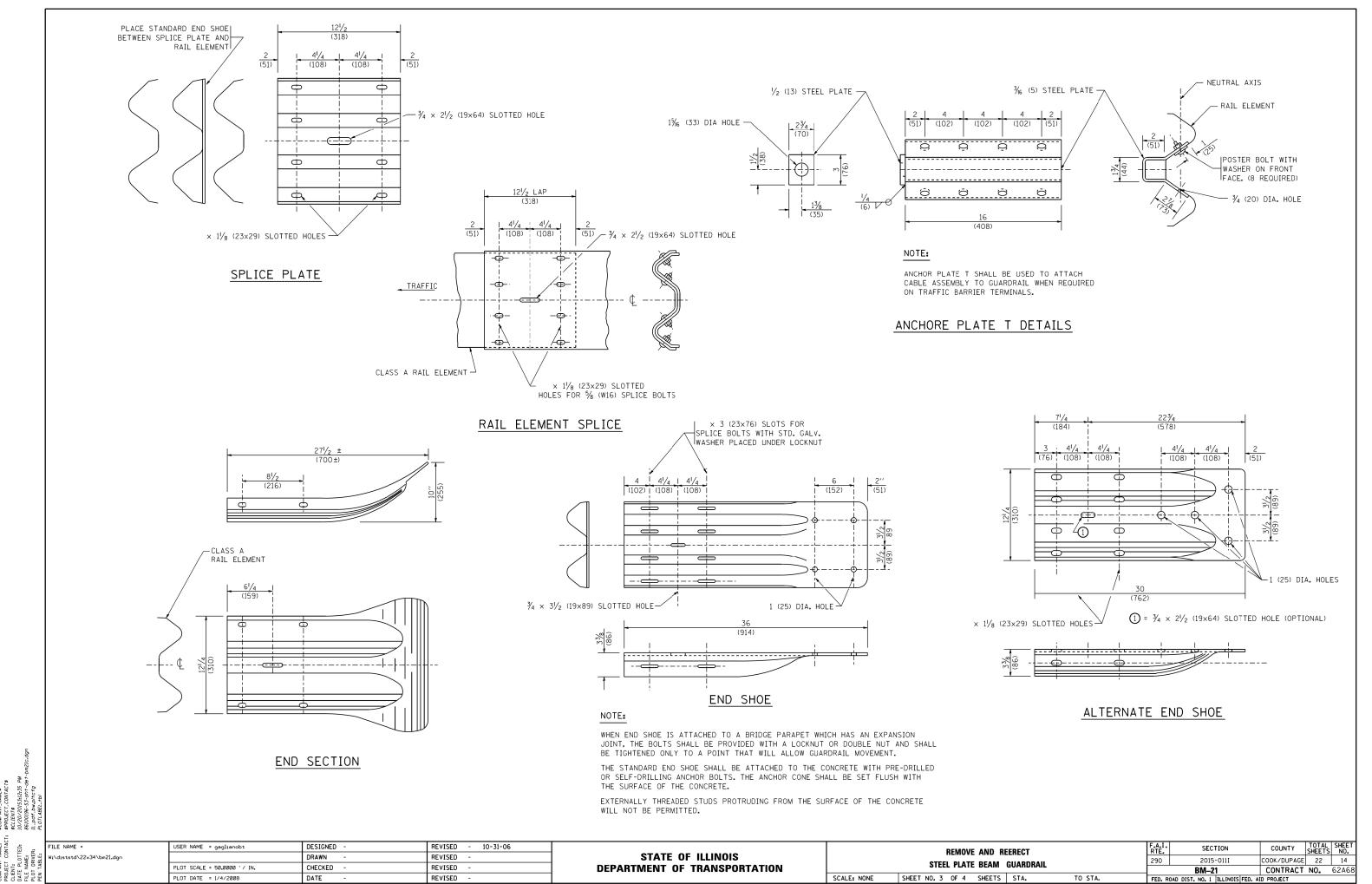
## STEEL BLOCK-OUT DETAIL



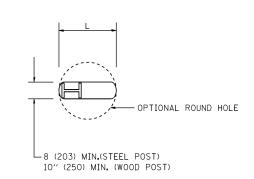
## WOOD POST CONSTRUCTION



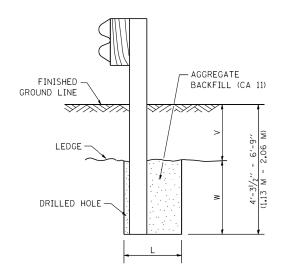
POST OR SPLICE BOLT & NUT



COOK/DUPAGE 2015-0111 86100196-53-sht-det-bm21c.dgn



## PLAN

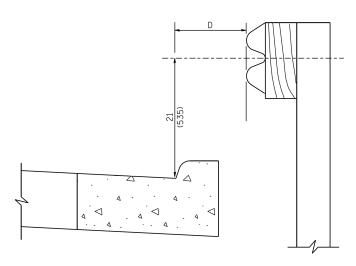


NOTE:

LEDGE LINE IS TOP OF ROCK LEDGE OR HARD SLAG FILL.

#### ELEVATION

## FOOTING FOR POST WHEN IMPERVIOUS MATERIAL IS ENCOUNTERED



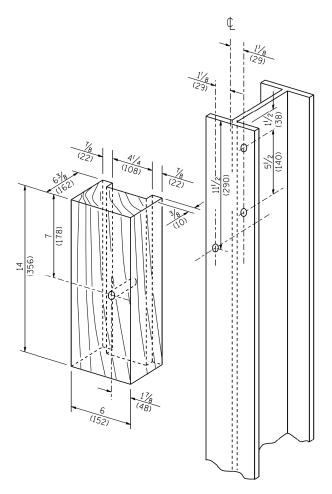
#### NOTE:

IF IT IS NECESSARY FOR D TO BE MORE THAN 12 (300) AND LESS THAN 10'-0" (3.0 M) TYPE M-2 (M-5) CURB AND GUTTER (STD. 606001) SHALL BE USED IN FRONT OF AND IN ADVANCE OF THE GUARDRAIL.

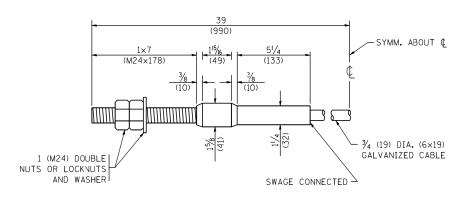
#### GUARDRAIL PLACED BEHIND CURB

(D = O DESIRABLE TO 12 (300) MAXIMUM)

V	w	L			
V	W	STEEL POST	WOOD POST		
0 - 18	24	21	23		
(0 - 460)	(610)	(530)	(580)		
>18 - 41.5	12	8	10		
(> 460 - 825)	(305)	(203)	(250)		
)41.5 - 53.5	12 - 0	8	10		
(> 825 - 1.13 M)	(350 - 0)	(203)	(250)		



## WOOD BLOCK-OUT AND STEEL POST DETAILS

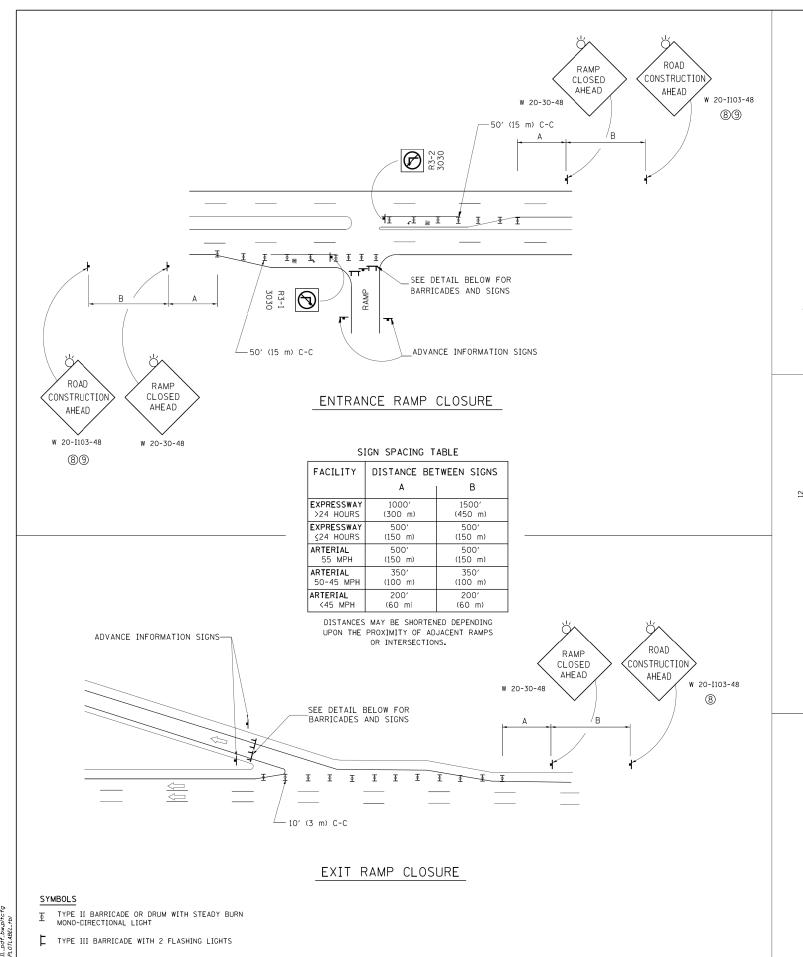


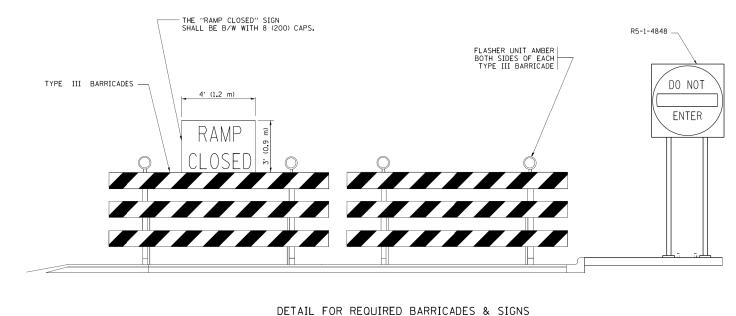
## CABLE ASSEMBLY

(40,000 LBS (18,100 KG) MIN. BREAKING STRENGTH) TIGHTEN TO TAUT TENSION

FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - 10-31-06
W:\diststd\22x34\bm21.dgn		DRAWN -	REVISED -
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED -
	PLOT DATE = 1/4/2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION





### RAMP CLOSURE ADVANCE INFORMATION SIGN



BLACK LEGEND ON ORANGE

CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.

RAMP CLOSURE ADVANCE WARNING SIGN

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

6 (150) 5 (125) BLACK LEGEND ON WHITE BACKGROUND 6 (150) 5 (125) 1/2 (12) BORDER 5 (150) E MOD FONT 5 (125) 6 (150) 5 (125) |THESE BLANK AREAS SHALL BE |FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED. 6 (150) (125) 4' (1.2 m)

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

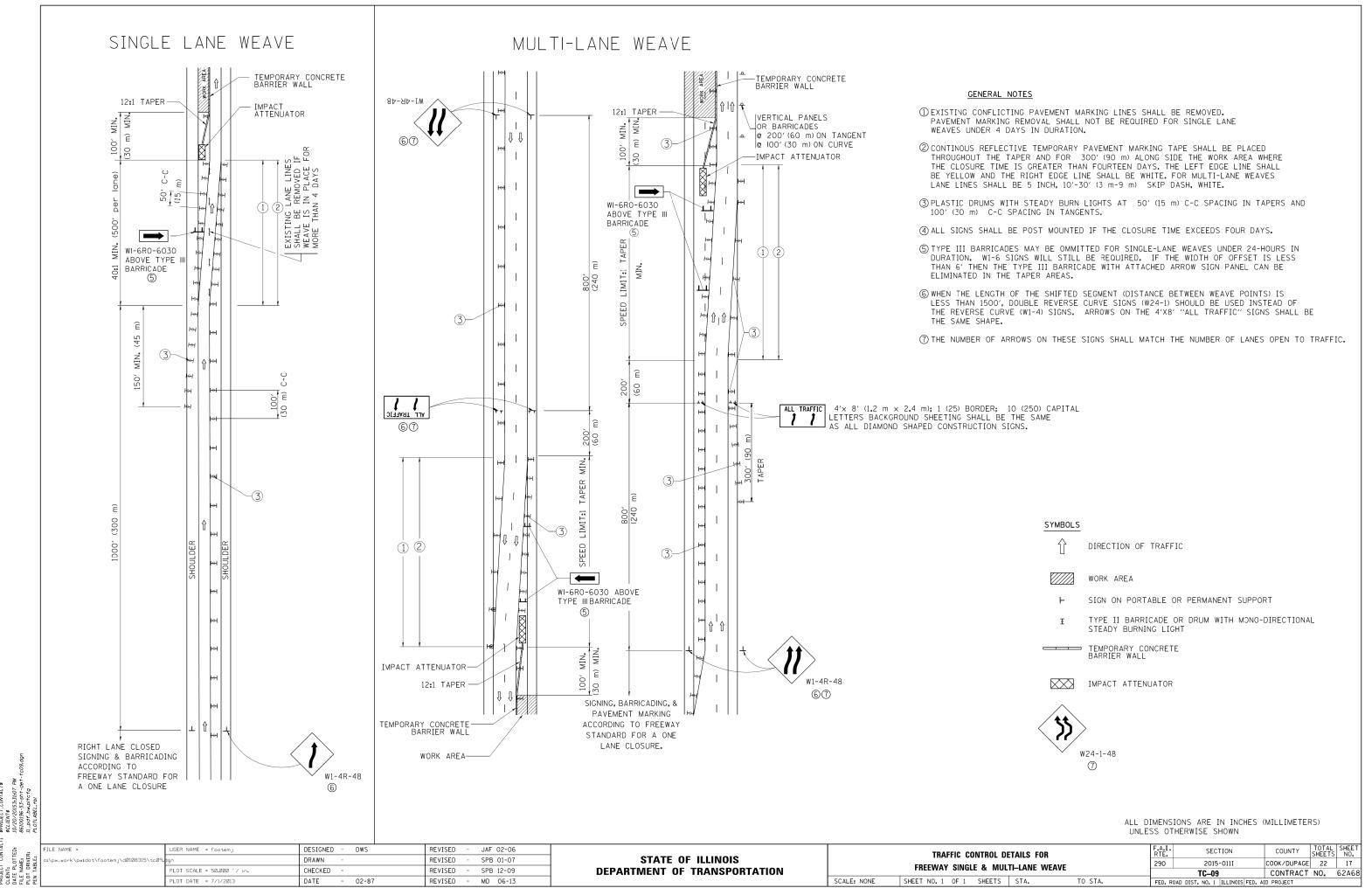
#### GENERAL NOTES:

- CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE 1 A MINIMUM OF 28 (700) HIGH.
- STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
- 3 A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEEDED BY A W20-7 FLAGGER WARNING 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.
- 5 THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).

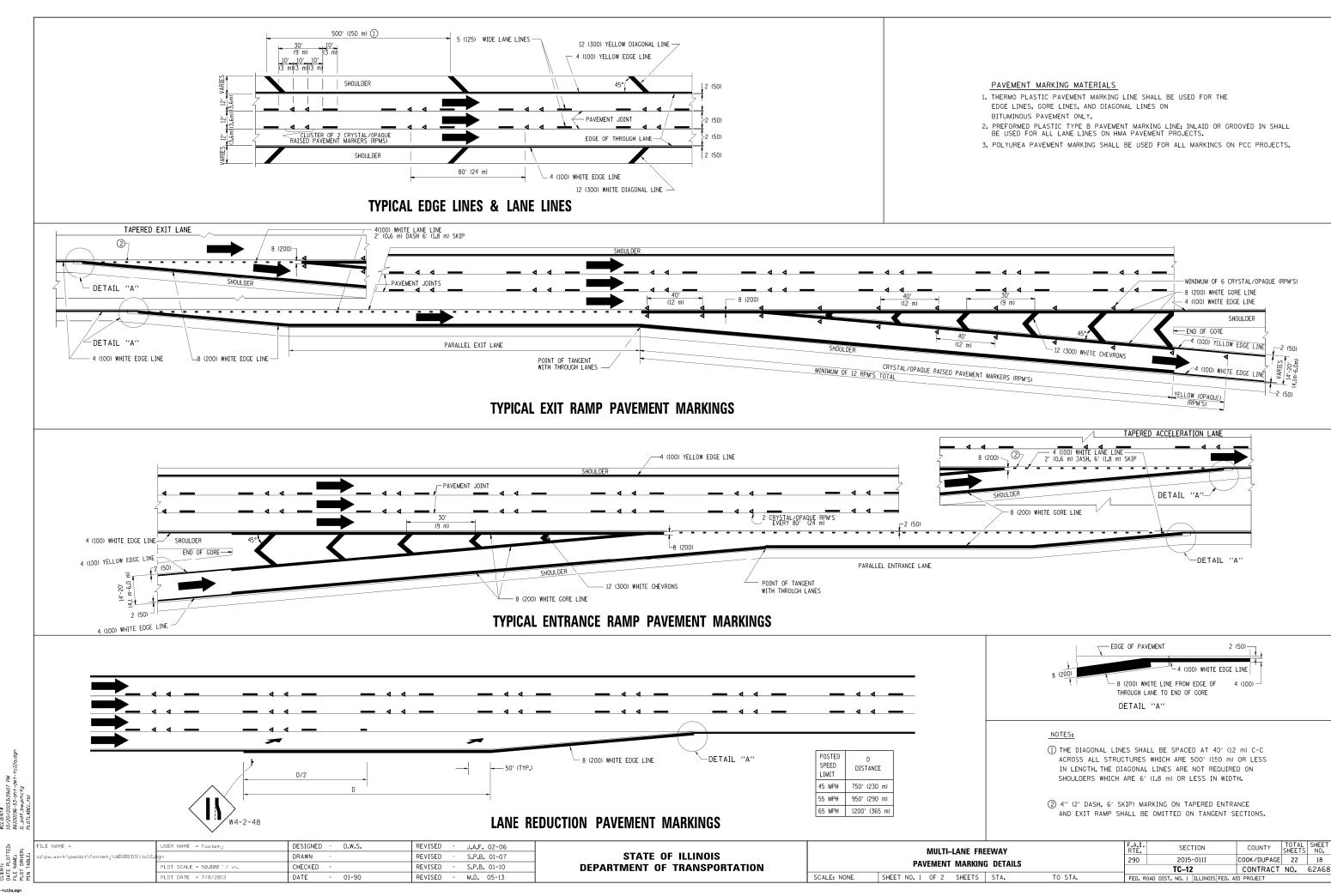
- (6) AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- (7) THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS, ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED FOUR (4) DAYS IN LENGTH
- (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.
- ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

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

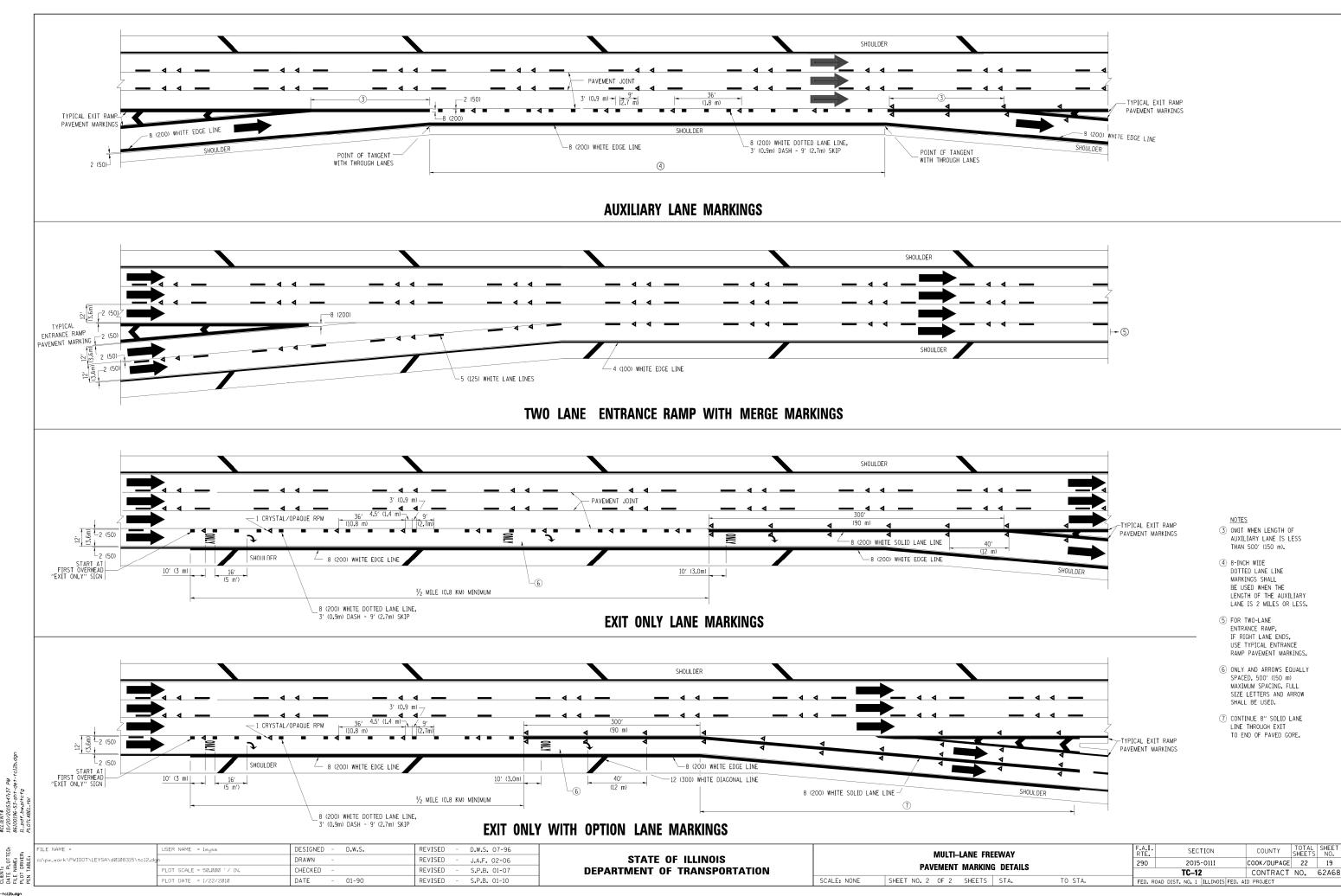
DESIGNED -DWS JAF 02-06 ISER NAME = footem REVISED SECTION COUNTY **ENTRANCE AND EXIT RAMP** STATE OF ILLINOIS RAWN REVISED SPB 01-07 290 2015-0111 COOK/DUPAGE 22 16 **CLOSURE DETAILS** CHECKED REVISED SPB 12-09 **DEPARTMENT OF TRANSPORTATION** TC-08 CONTRACT NO. 62A68 SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA. DATE 02-83 REVISED MD 06-13 FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT



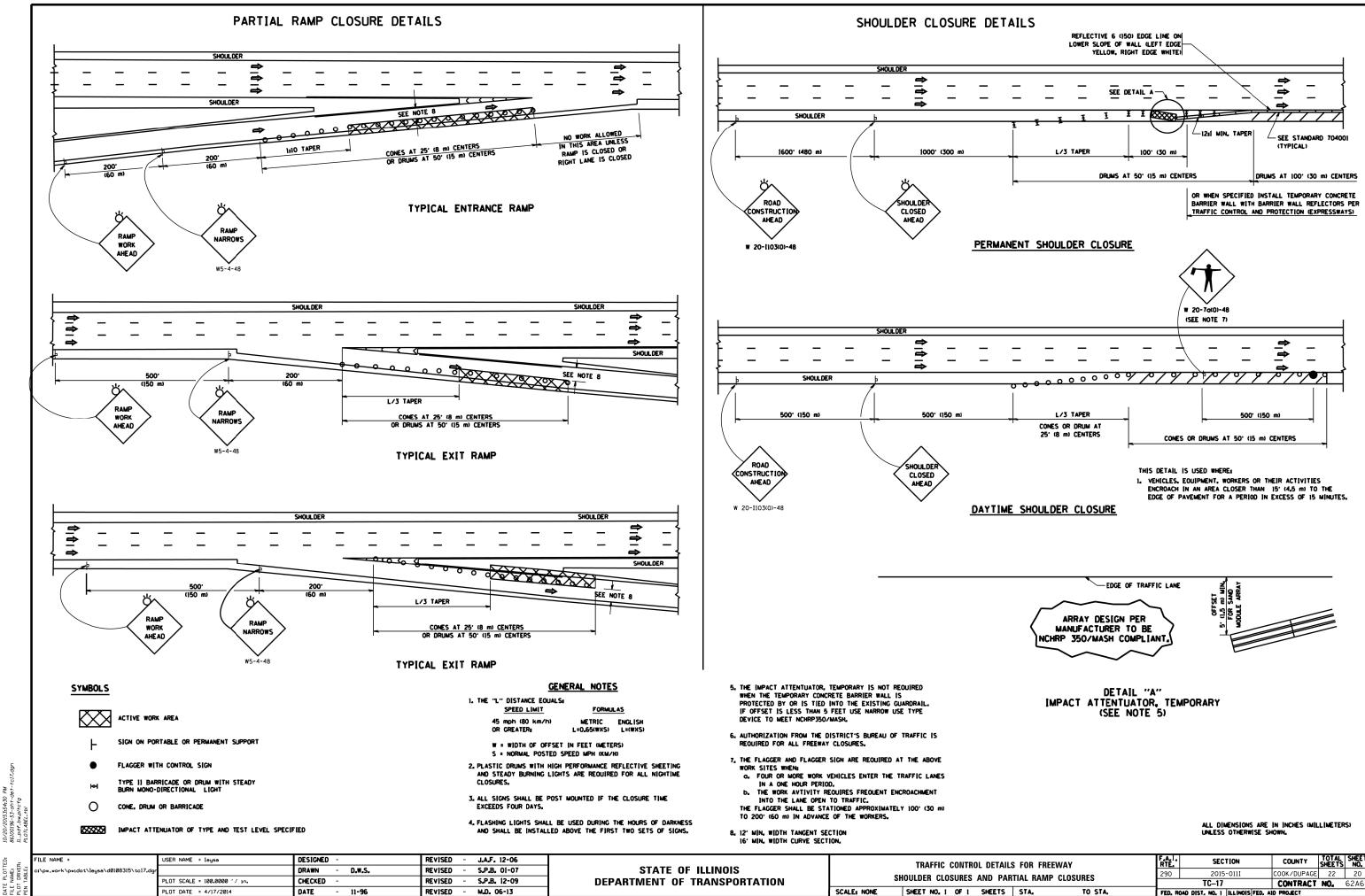
2015-0111 86100196-53-sht-det-tc09,4



2015-0111 86100196-53-sht-det-tcl2a.dgn

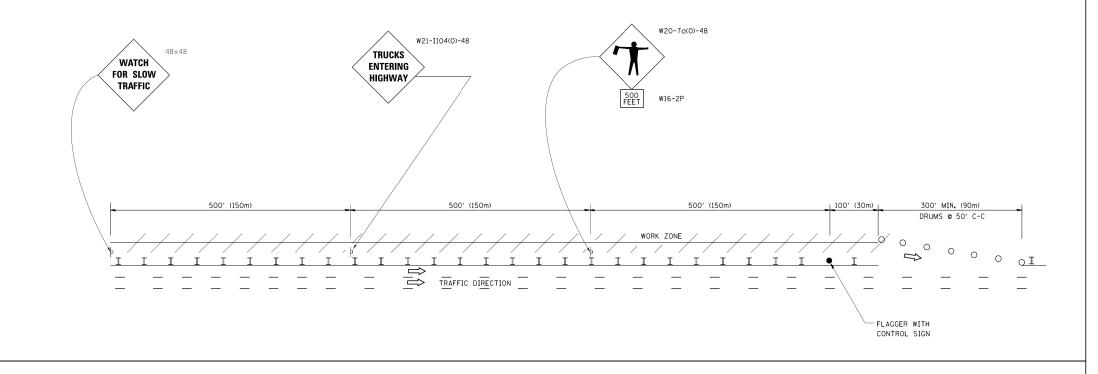


COOK/DUPAGE 2015-0111 86100196-53-sht-det-tc12b,dgn

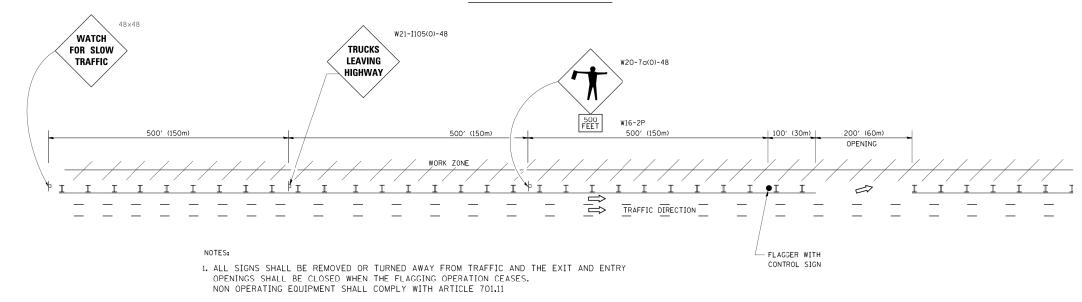


#### SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

#### WORK ZONE EXIT OPENING



#### WORK ZONE ENTRY OPENING



- 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 = USER NAME = footemJ DESIGNED - REVISED - J.A.F. 02-06
ci\pw\_work\pwidot\footemJ\d0108315\tc18.dgn DRAWN - REVISED - S.P.B. 01-07
PLOT SCALE = 50.000 '/ in. CHECKED - REVISED - S.P.B. 12-09
PLOT DATE = 7/8/2013 DATE - REVISED - M.D. 06-13

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

 FREEWAY/EXPRESSWAY SIGNING FOR FLAGGING OPERATIONS
 F.A.I. RTE.
 SECTION RTE.

 AT WORK ZONE OPENINGS ON FREEWAYS/EXPRESSWAYS
 290
 2015-01

 SCALE: NONE
 SHEET NO. 1 OF 1 SHEETS
 STA. TO STA.
 FED. ROAD DIST. NO. 1 ILL

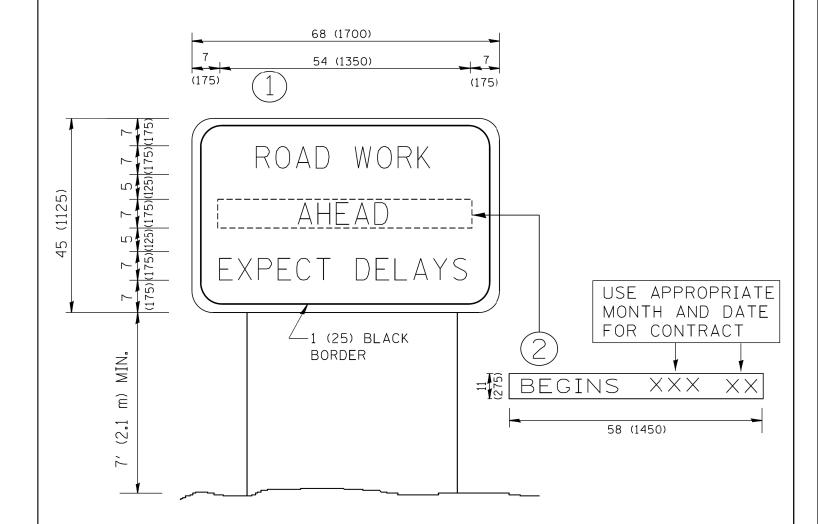
COOK/DUPAGE 2015-0111 86100196-53-sht-det-tcl8.dgn

CONTACT: \$780.0ET.1.001.0ET.1.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD
INFORMATION SIGN

SHEET NO. 1 OF 1 SHEETS STA. TO STA.



## NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.

SCALE: NONE

- 2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- 3. ERECT SIGN () 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.