

04-25-14 LETTING ITEM 015

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAI ROUTE 55: INTERSTATE 55
NORTHBOUND BOLINGBROOK WEIGH STATION
SECTION (99-1TWS-2)PP
WEIGH STATION PATCHING
WILL COUNTY

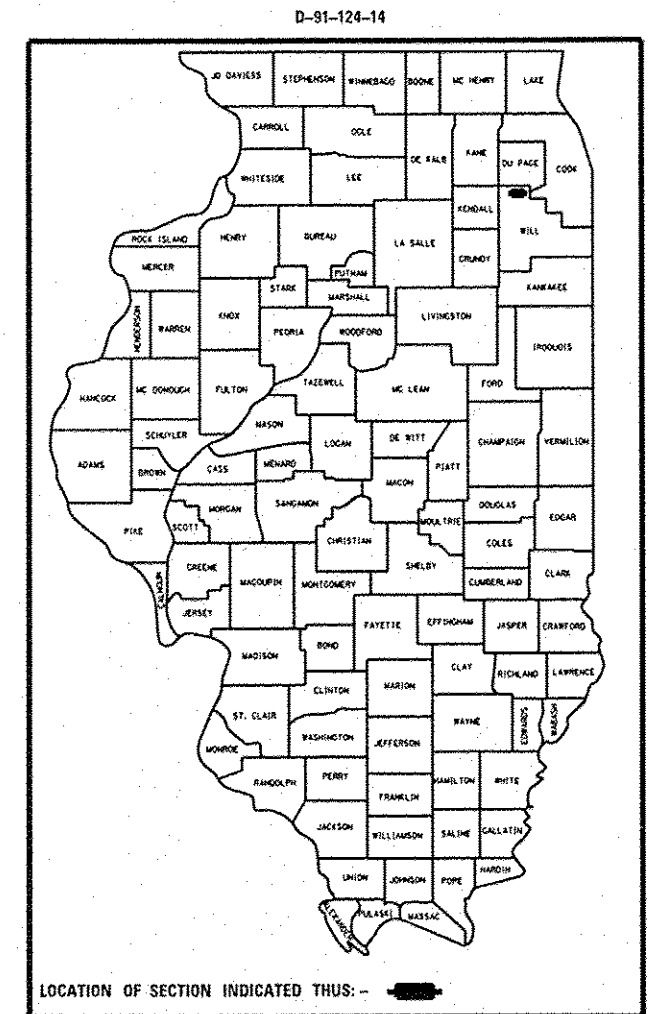
C-91-124-14

R 10 E

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-1TWS-2)PP	WILL	16	1
ILLINOIS			CONTRACT NO. 60X53	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENT IS LOCATED IN THE VILLAGE OF BOLINGBROOK.



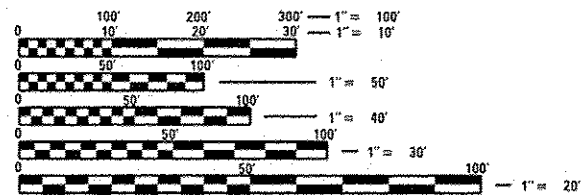
TRAFFIC DATA

2012 ADT = 7000

POSTED SPEED LIMIT = 30 MPH

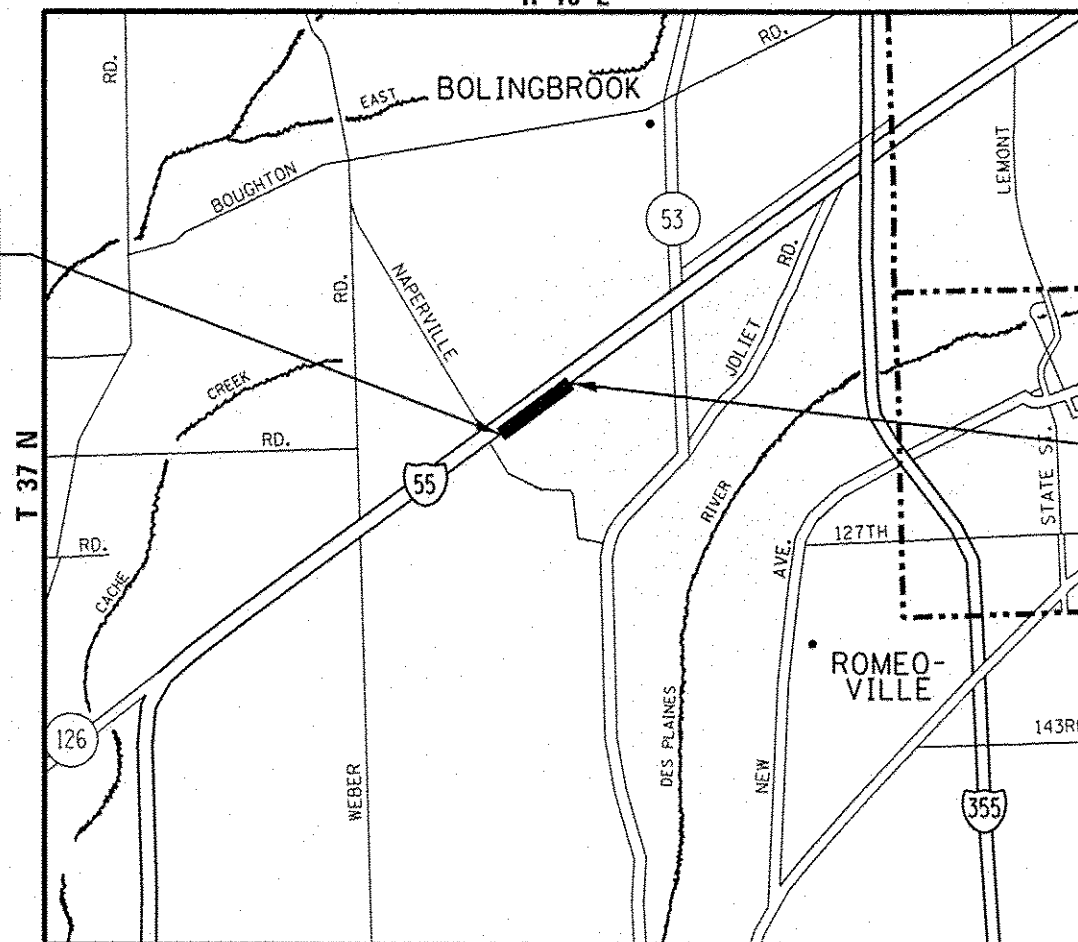
IMPROVEMENT BEGINS
STA 384 + 75.00

IMPROVEMENT ENDS
STA 410 + 15.00



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



DUPAGE TOWNSHIP

GROSS AND NET LENGTH = 2540.00 FT. = 0.481 MILE

PROJECT ENGINEER: J. ALAIN MIDY (847) 221-3056
PROJECT MANAGER: ISSAM RAYYAN (847) 705-4178

CONTRACT NO. 60X53

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED February 3, 2014

John D. Baranzelli, PE, BS
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

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

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

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GENERAL NOTES

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1.	COVER SHEET
2.	INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES
3.	SUMMARY OF QUANTITIES
4-6.	PATCHING SCHEDULE
7.	TYPICAL SECTION
8-9.	ROADWAY PLAN
10.	DETECTOR LOOP PLANS
11.	ENTRANCE RAMP AND CLOSURE DETAILS (TC-08)
12-13.	MULTI-LANE FREEWAY PAVEMENT MARKING (TC-12)
14.	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)
15.	TRAFFIC CONTROL FOR SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES (TC-17)
16.	SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS (TC-18)

STATE STANDARDS

STANDARD NO.	DESCRIPTION
420001-07	PAVEMENT JOINTS
420701-02	PAVEMENT FABRIC
442101-07	CLASS B PATCHES
701411-08	LANE CLOSURE, MULTILANE AT ENTRANCE OR EXIT RAMP FOR SPEEDS > 45 MPH
701428	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY
701901-03	TRAFFIC CONTROL DEVICES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND THE VILLAGE OF BOLINGBROOK.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

USE #8 EPOXY-COATED TIE BARS, CONFORMING TO ART. 1006.10 OF THE STANDARD SPECIFICATIONS, FOR ALL TIE BARS. USE THE "LONGITUDINAL CONSTRUCTION JOINT (TIE BAR GROUTED IN PLACE)" DETAIL SHOWN ON HIGHWAY STANDARD 420001 FOR ALL LONGITUDINAL JOINTS.

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.

BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE EXPRESSWAYS TRAFFIC CONTROL SUPERVISOR AT (847)705-4155 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THE ENGINEER SHALL CONTACT THE SOUTH AREA TRAFFIC EXPRESSWAY ENGINEER, AT (847) 705-4153 A MINIMUM OF TWO WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

POLYUREA PAVEMENT MARKING APPLIES TO EXISTING PAVEMENT MARKING AFFECTED BY PATCHING.

THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BUREAU OF MAINTENANCE.

THE ENGINEER SHALL OBTAIN APPROVAL FROM THE DISTRICT ONE BUREAU CHIEF OF MAINTENANCE FOR ANY PROPOSED REVISIONS IN THE SCHEDULED PAVEMENT PATCHING LOCATIONS.

ANY DAMAGE TO THE ADJACENT GRASS AREAS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

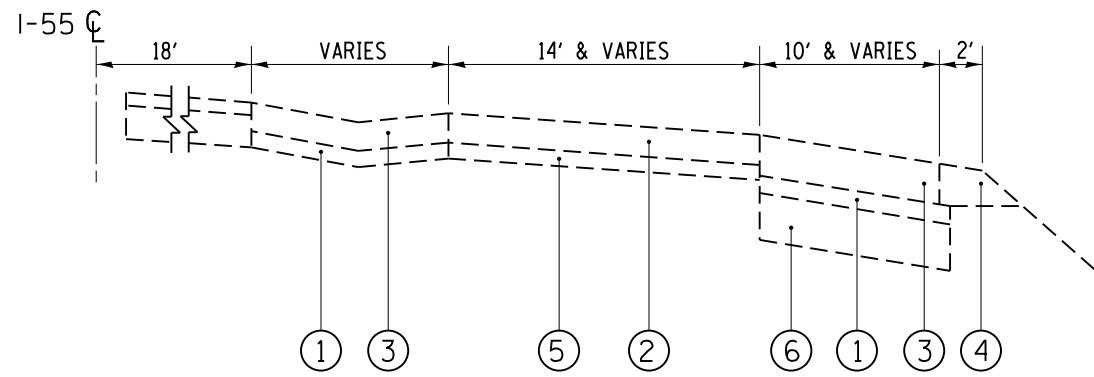
DRILL AND GROUT SHALL BE INCLUDED IN THE COST OF TIE BAR.

FILE NAME : c:\p\work\psidot\gorengautab\03070719\012414-sht-plan.dgn	USER NAME : Gorengautab	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTERSTATE 55 INDEX OF SHEETS, STATE STANDARDS, & GENERAL NOTES				F.A.I. RTE. 55	SECTION (99-ITWS-2)PP	COUNTY WILL	TOTAL SHEETS 16	SHEET NO. 2
PLOT SCALE * 100.0000 / in.		DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 60X53		
CHECKED -		CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT								
PLOT DATE * 2/3/2014		DATE -	REVISED -										

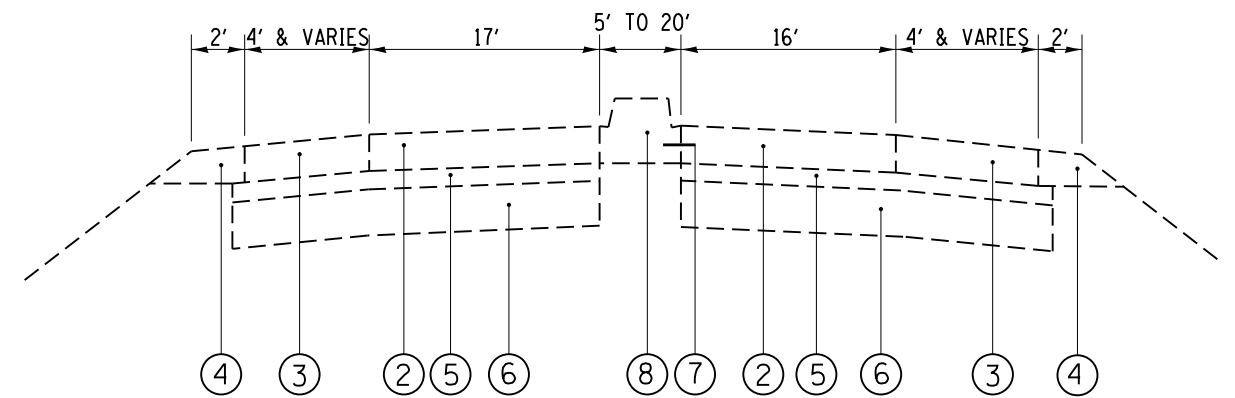
PATCHING SCHEDULE
FOR CLASS B PATCHES

STATION	DIRECTION	LANE	LENGTH (ft)	WIDTH (ft)	PATCH AREA				DOWEL BARS 1 1/2" 44201299 (Each)	SAW CUTS 44213200 (ft)	TIE BARS 1" 44213202 (Each)	PAVEMENT FABRIC 44213100 (sq. yd)
					TYPE I	TYPE II	TYPE III	TYPE IV				
					(sq. yd)	(sq. yd)	(sq. yd)	(sq. yd)				
388+01.00	NB	SCALE	6	16	0.0	10.7	0.0	0.0	28	66.0	0	0.0
388+42.00	NB	SCALE	6	16	0.0	10.7	0.0	0.0	28	66.0	0	0.0
388+86.00	NB	SCALE	6	16	0.0	10.7	0.0	0.0	28	66.0	0	0.0
389+23.00	NB	SCALE	6	16	0.0	10.7	0.0	0.0	28	66.0	0	0.0
390+02.00	NB	SCALE	6	16	0.0	10.7	0.0	0.0	28	66.0	0	0.0
390+44.00	NB	SCALE	6	16	0.0	10.7	0.0	0.0	28	66.0	0	0.0
390+80.00	NB	SCALE	6	16	0.0	10.7	0.0	0.0	28	66.0	0	0.0
391+21.00	NB	SCALE	6	16	0.0	10.7	0.0	0.0	28	66.0	0	0.0
391+61.00	NB	SCALE	6	16	0.0	10.7	0.0	0.0	28	66.0	0	0.0
392+00.00	NB	SCALE	6	16	0.0	10.7	0.0	0.0	28	66.0	0	0.0
392+47.00	NB	SCALE	6	16	0.0	10.7	0.0	0.0	28	66.0	0	0.0
392+73.00	NB	SCALE	6	16	0.0	10.7	0.0	0.0	28	66.0	0	0.0
392+85.00	NB	SCALE	6	16	0.0	10.7	0.0	0.0	28	66.0	0	0.0
393+21.00	NB	SCALE	6	16	0.0	10.7	0.0	0.0	28	66.0	0	0.0
393+62.00	NB	SCALE	6	16	0.0	10.7	0.0	0.0	28	66.0	0	0.0
394+05.00	NB	SCALE	6	16	0.0	10.7	0.0	0.0	28	66.0	0	0.0
394+42.00	NB	SCALE	6	16	0.0	10.7	0.0	0.0	28	66.0	0	0.0
394+81.00	NB	SCALE	6	16	0.0	10.7	0.0	0.0	28	66.0	0	0.0
395+21.00	NB	SCALE	6	16	0.0	10.7	0.0	0.0	28	66.0	0	0.0
395+63.00	NB	SCALE	6	16	0.0	10.7	0.0	0.0	28	66.0	0	0.0
396+03.00	NB	SCALE	6	16	0.0	10.7	0.0	0.0	28	66.0	0	0.0
396+46.00	NB	SCALE	6	16	0.0	10.7	0.0	0.0	28	66.0	0	0.0
396+82.00	NB	SCALE	6	16	0.0	10.7	0.0	0.0	28	66.0	0	0.0
397+24.00	NB	SCALE	6	16	0.0	10.7	0.0	0.0	28	66.0	0	0.0
397+65.00	NB	SCALE	6	16	0.0	10.7	0.0	0.0	28	66.0	0	0.0
398+03.00	NB	SCALE	6	16	0.0	10.7	0.0	0.0	28	66.0	0	0.0
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402+63.00	NB	SCALE	6	16	0.0	10.7	0.0	0.0	28	66.0	0	0.0
402+44.00	NB	SCALE	6	16	0.0	10.7	0.0	0.0	28	66.0	0	0.0
402+89.00	NB	SCALE	6	16	0.0	10.7	0.0	0.0	28	66.0	0	0.0
404+29.00	NB	SCALE	6	16	0.0	10.7	0.0	0.0	28	66.0	0	0.0
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405+14.00	NB	SCALE	6	16	0.0	10.7	0.0	0.0	28	66.0	0	0.0
405+46.00	NB	SCALE	6	16	0.0	10.7	0.0	0.0	28	66.0	0	0.0
405+87.00	NB	SCALE	6	16	0.0	10.7	0.0	0.0	28	66.0	0	0.0
406+27.00	NB	SCALE	6	16	0.0	10.7	0.0	0.0	28	66.0	0	0.0
406+66.00	NB	SCALE	6	16	0.0	10.7	0.0	0.0	28	66.0	0	0.0
407+02.00	NB	SCALE	6	16	0.0	10.7	0.0	0.0	28	66.0	0	0.0
407+36.00	NB	SCALE	6	16	0.0	10.7	0.0	0.0	28	66.0	0	0.0
SCALE LANE TOTALS					0.0 (sq. yd)	416.0 (sq. yd)	0.0 (sq. yd)	0.0 (sq. yd)	1092.0 (Each)	2574.0 (ft)	0.0 (Each)	0.0 (sq. yd)

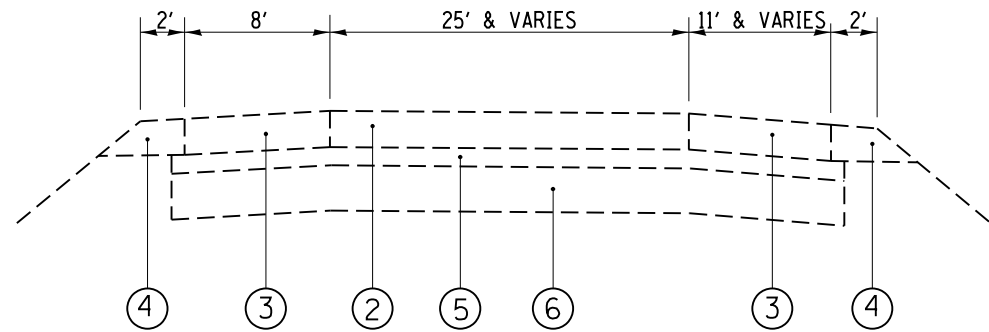
FILE NAME =	USER NAME = Gorengautab	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTERSTATE 55 SCALE LANE PATCHING SCHEDULE				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwwork\pwwork\gorengautab\d0370719\0112414-sht-plan.dgn		DRAWN -	REVISED -		55	(99-1TWS-2)PP	WILL	16	4				
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -		CONTRACT NO. 60X53				ILLINOIS FED. AID PROJECT				
	PLOT DATE = 2/3/2014	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.		



TYPICAL SECTION
I-55 NB BOLINGBROOK WEIGH STATION
 STA. 409+77 TO STA. 410+15



TYPICAL SECTION
I-55 NB BOLINGBROOK WEIGH STATION
 STA. 386+93 TO STA. 402+40



TYPICAL SECTION
I-55 NB BOLINGBROOK WEIGH STATION
 STA. 384+75 TO STA. 386+93
 STA. 402+40 TO STA. 409+77

LEGEND

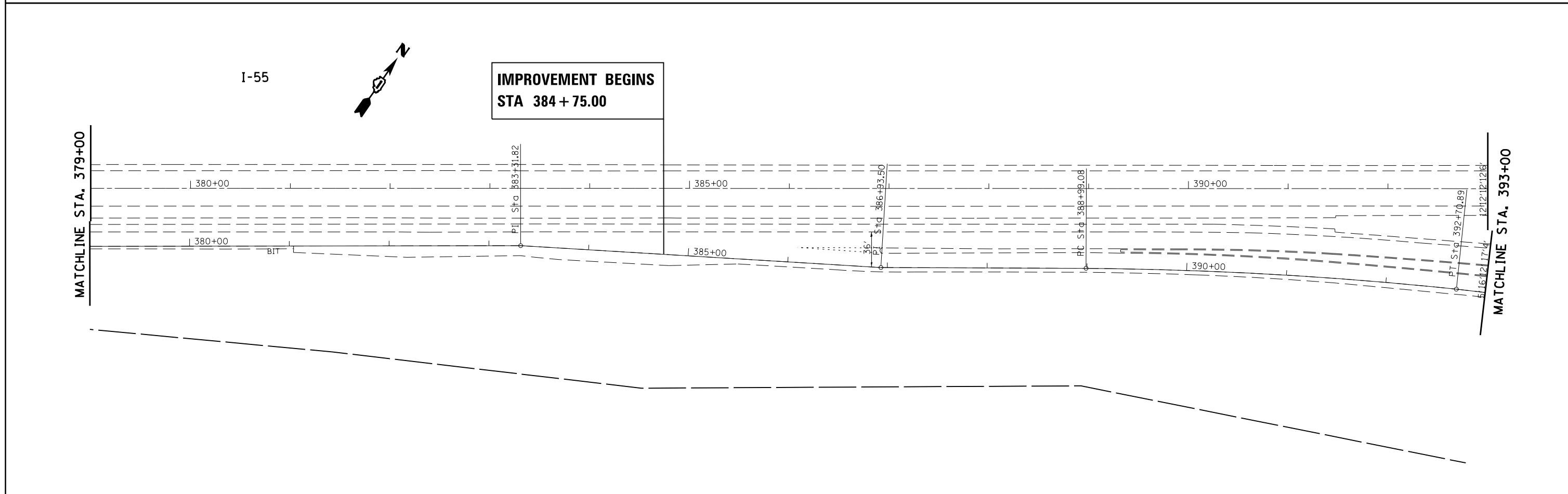
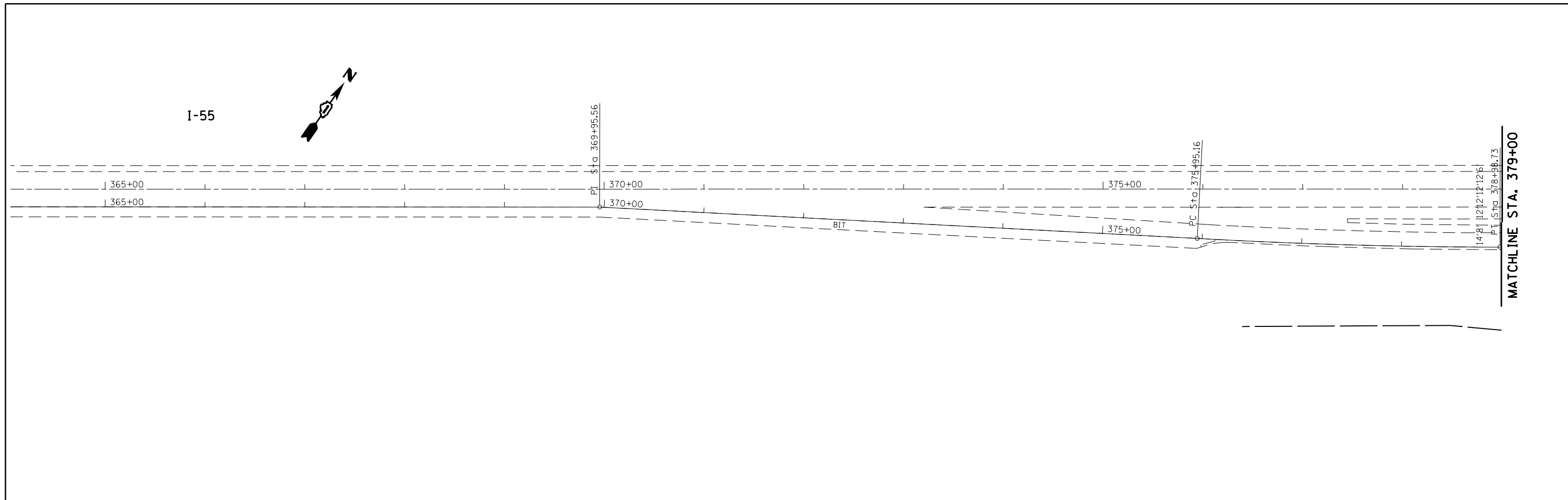
- ① EXIST. STABILIZED SUB-BASE, 4"
- ② EXIST. P.C.C. PAVT., 13" (HINGE JOINTED)
- ③ EXIST. BIT. SHOULDER, 8"
- ④ EXIST. AGGR. SHOULDER, TYPE A, 10"
- ⑤ EXIST. BIT. BASE CSE., 4"
- ⑥ EXIST. AGGR. SUBGRADE, 12"
- ⑦ EXIST. #8 TIE BAR
- ⑧ EXIST. MEDIAN
- ⑨ EXIST. CURB & GUTTER

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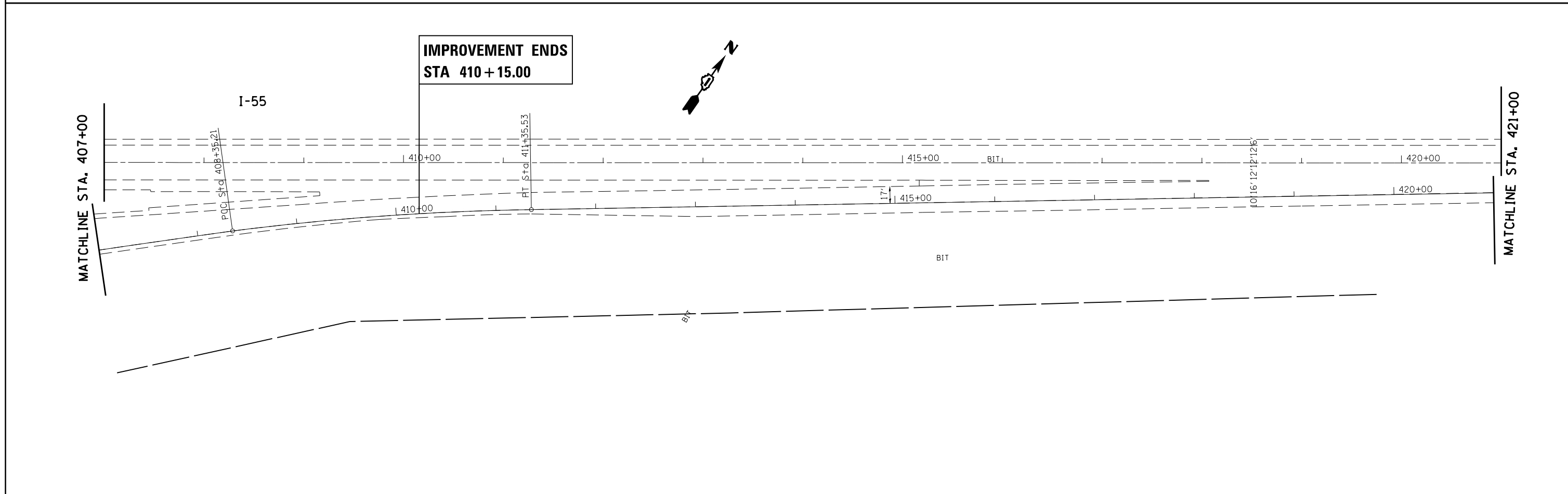
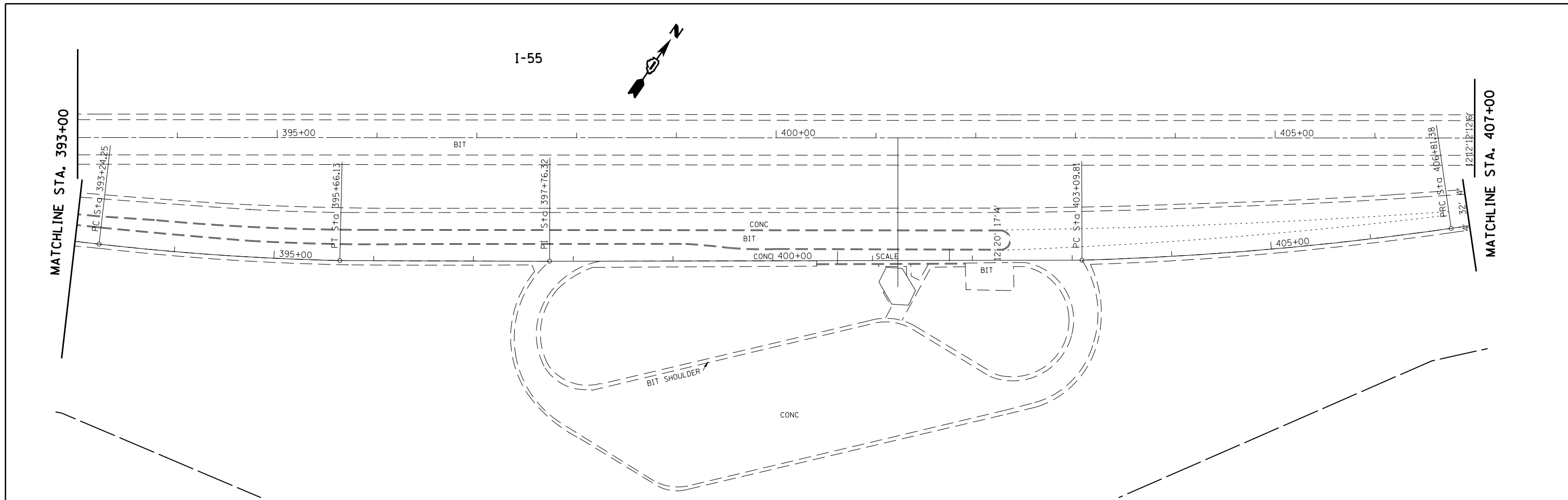
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSTATE 55		TYPICAL SECTIONS	
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1TWS-2)PP	WILL	16	7
CONTRACT NO. 60X53				
ILLINOIS FED. AID PROJECT				



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Default	PLOT DATE = 2/3/2014	DATE -	REVISED -		SCALE: 1" = 50' SHEET OF SHEETS STA. 364+00.00 TO STA. 393+00.00			CONTRACT NO. 60X53				
ILLINOIS FED. AID PROJECT												

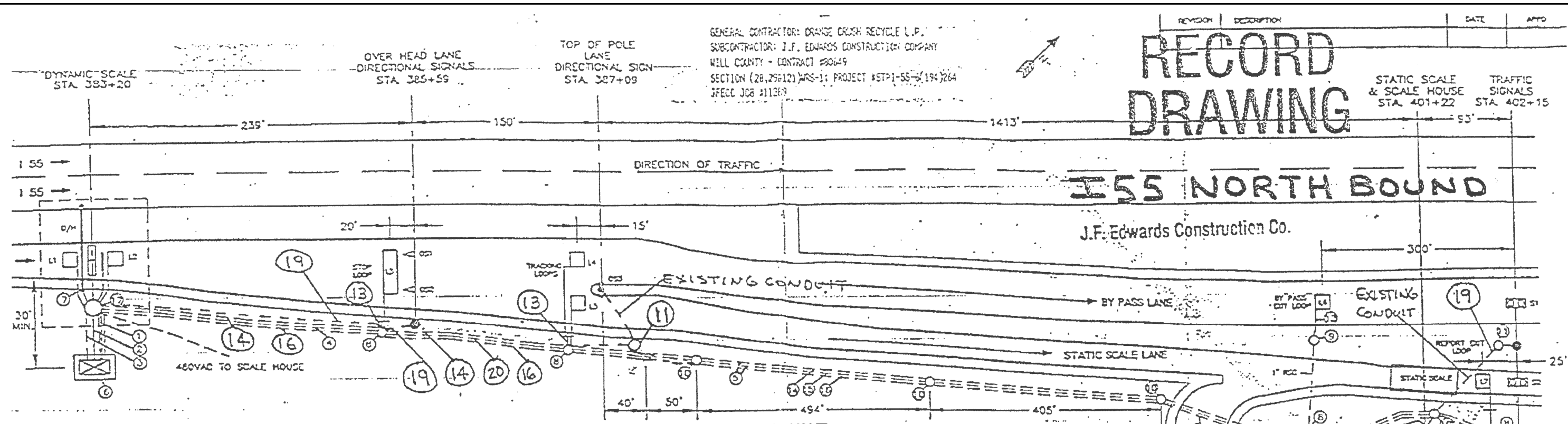


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	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -		55	(99-ITWS-2)PP	WILL	16	9			
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							ILLINOIS FED. AID PROJECT					

RECORD DRAWING

STATIC SCALE & SCALE HOUSE STA. 401+22
TRAFFIC SIGNALS STA. 402+15

GENERAL CONTRACTOR: ORANGE CRUSH RECYCLE L.P.
SUBCONTRACTOR: J.F. EDWARDS CONSTRUCTION COMPANY
WILL COUNTY - CONTRACT #00649
SECTION (28,256121) WSS-1; PROJECT #STP1-55-6(194)264
JFECC JOB #11393



SITE LAYOUT

CABLE DETAILS:

- COMM - 2-#22, 6 PAIR IND. TW. & SH. STRANDED PC JACKET #14 LOOP WIRE
- OH DET. - 2-#18, 1 PAIR TW. & SH.
- WIM SCALE - 2-#20, 6 PAIR TW. & SH.
- AXLE SENSOR - 100' CABLE ATTACHED TO SENSOR, #18, 1 PAIR TW. & SH.
- 480VAC POWER - 4-#14 AWG, BLK, RED, WHITE, GREEN - 240V/480V TRANSFORMER AT SCALE HOUSE AND WIM CABINET

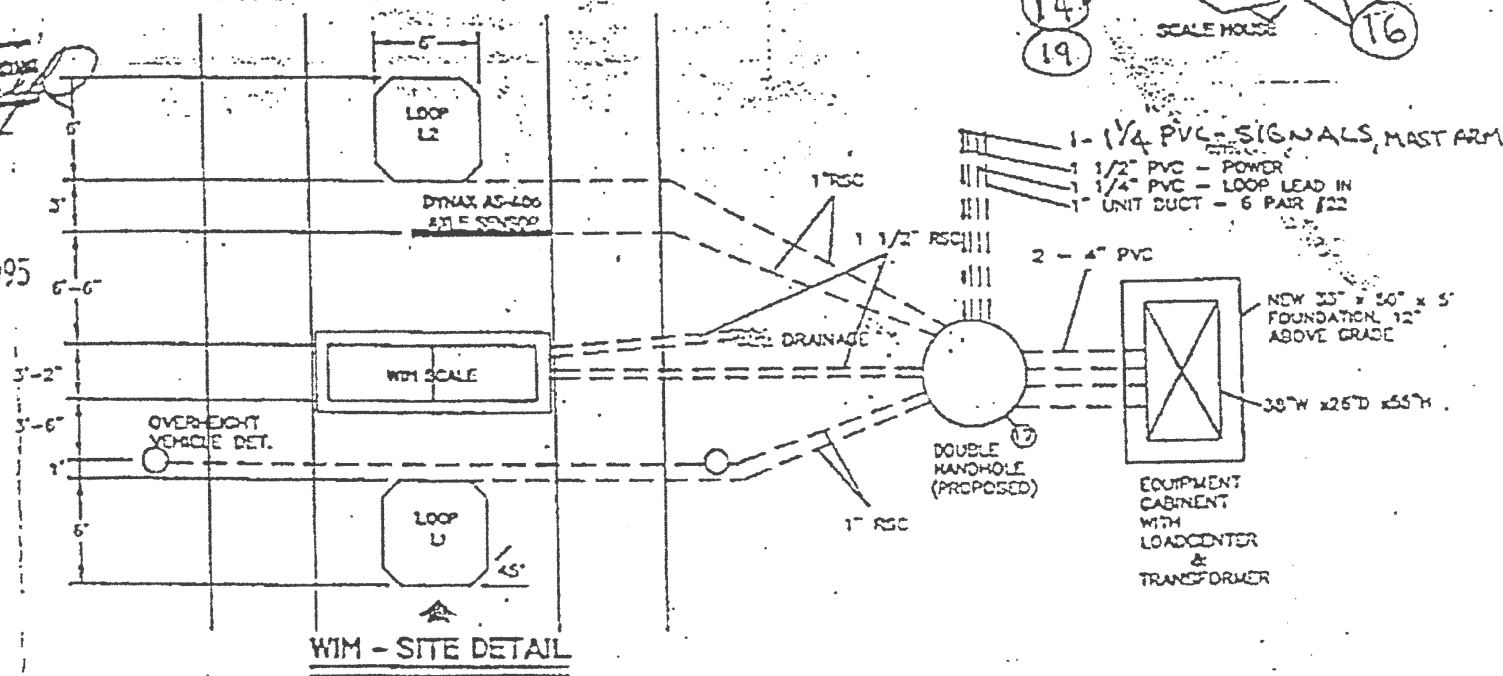
NOTES:

- 1 AXLE SENSOR 1-#18 1-PAIR TW. & SH. - WIM SCALE 2-#20 6-PAIR TW. & SH.
- 2 LOOPS 1&2: 2-#14/2 TW. & SH. & LOOP LEADS
- 3 OH DETECTOR 2-#18 1-PAIR TW. & SH.
- 4 LOOPS 3-7: 5-#14/2 TW. & SH. IN 1 1/4" PVC
- 5 EXIT LOOPS 2 - #14/2 TW. & SH. IN 1 1/4" PVC CONDUIT. LOOPS 6,7 COMMUNICATION 2-6 PAIR #22 IND. TW. & SH. TO SCALE HOUSE IN EXISTING 1" UNIT DUCT.
- 6 WIM CABINET (190) MOUNTED ON NEW BASE (33" x 50" x 5"). LOADCENTER PROVIDES 110 VAC 2 - 10 AMP CIRCUITS AND 1 - 20 AMP CIRCUIT. DRY TYPE TRANSFORMER 480V TO 120V/240V
- 7 EXISTING OVERHEIGHT BASES MUST BE LOCATED BETWEEN L1 AND L2. - SEE WIM SITE DETAIL
- 8 PROPOSED HAND HOLE.
- 9 PROPOSED HEAVY DUTY HANDHOLE.
- 10 EXISTING HANDHOLE.
- 11 EXISTING HEAVY DUTY HANDHOLE.
- 12 2 - 1" UNIT DUCT.
- 13 1" UNIT DUCT (TYPICAL).
- 14 EXISTING 1" UNIT DUCT WITH 2 - 6 PAIR #22.
- 15 PROPOSED 1 1/4" SCH. 40 PVC WITH 2-20 #14 TW./SH. LEAD IN CABLES.

GENERAL CONTRACTOR: ORANGE CRUSH RECYCLE L.P.
SUBCONTRACTOR: J.F. EDWARDS CONSTRUCTION COMPANY
WILL COUNTY - CONTRACT #00649
SECTION (28,256121) WSS-1; PROJECT #STP1-55-6(194)264
JFECC JOB #11393

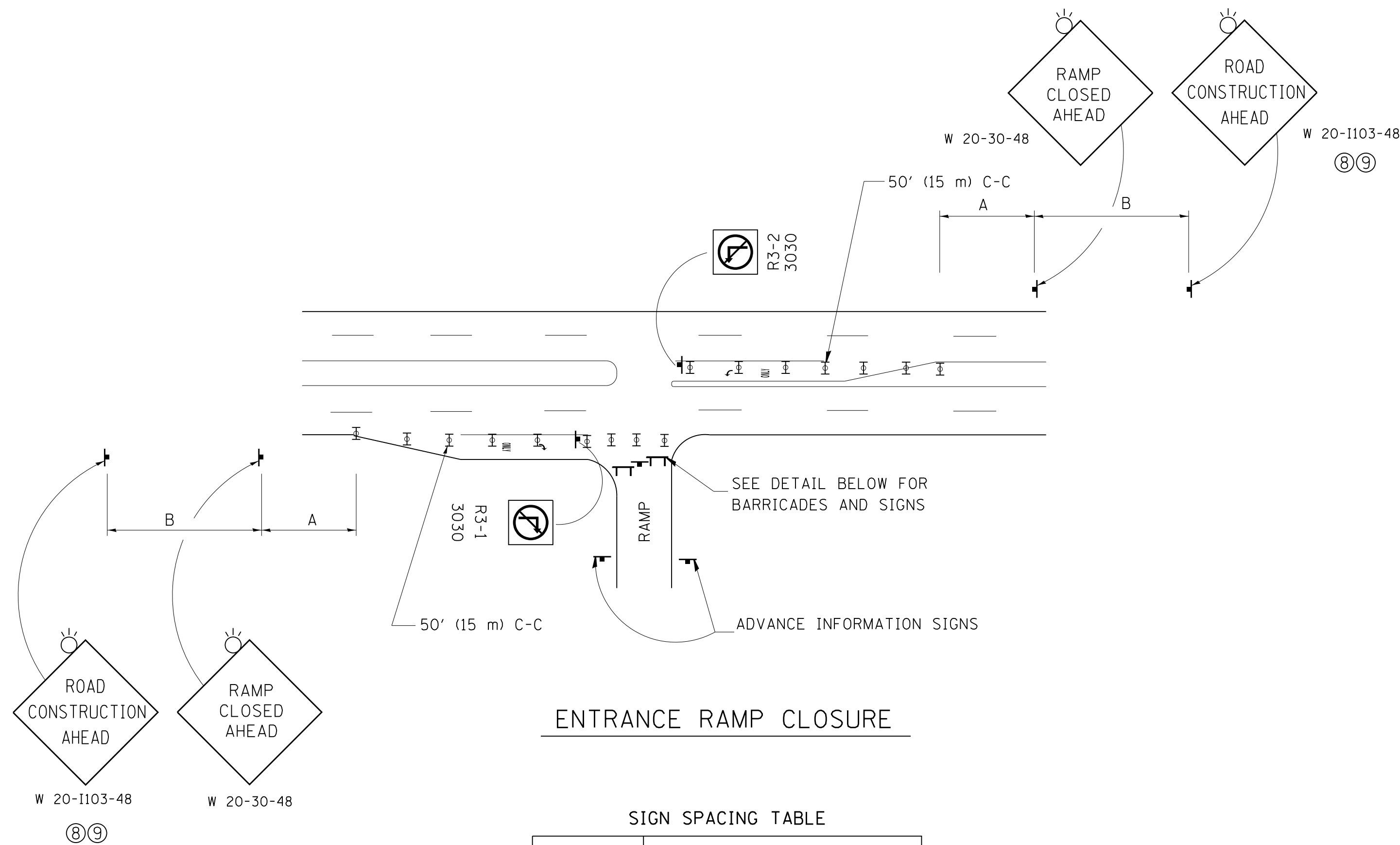
LOOP#	LOOP SIZE	# TURNS
1	6'x6'	4
2	6'x6'	4
3	6'x14'	3
4	8'x6'	4
5	8'x6'	4
6	8'x6'	7
7	8'x6'	7

APPROVED
ENGINEER OF OPERATIONS
SEP 20 1995



FOR INFORMATION ONLY

FILE NAME =	USER NAME = Gorengautab	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTERSTATE 55 DETECTOR LOOP PLANS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pwork\p1dot\gorengautab\d0370719\0112414-sht-plan.dgn	DRAWN -	REVISED -	55			(99-ITWS-2)PP	WILL	16	10	
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 60X53				
	PLOT DATE = 2/3/2014	DATE -	REVISED -			ILLINOIS FED. AID PROJECT				

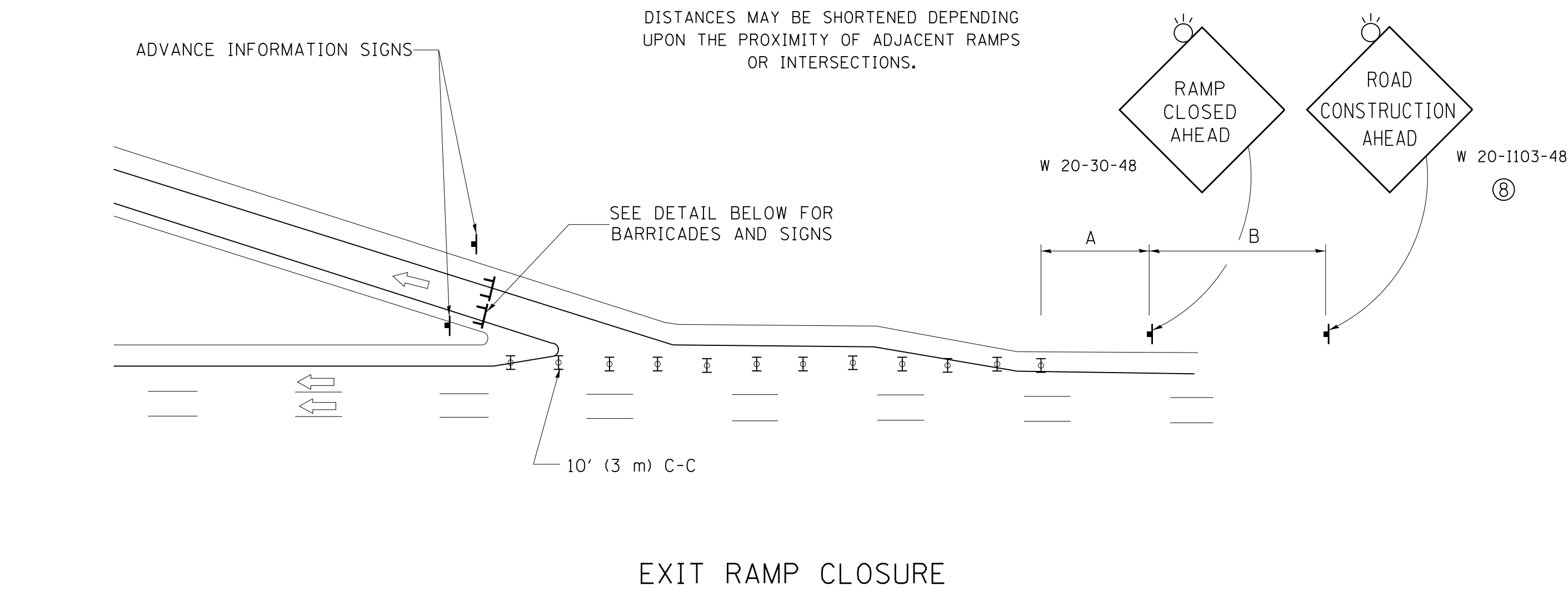


ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY <24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL 55 MPH	500' (150 m)	500' (150 m)
ARTERIAL 50-45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	200' (60 m)	200' (60 m)

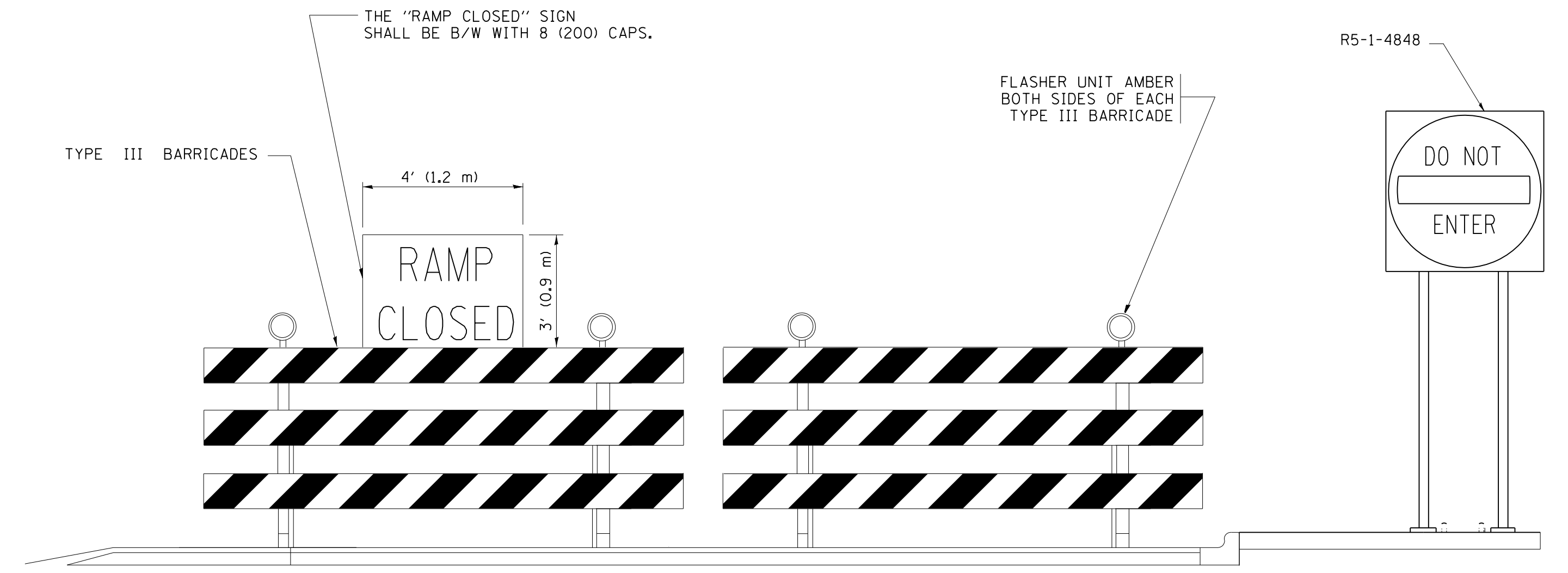
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



EXIT RAMP CLOSURE

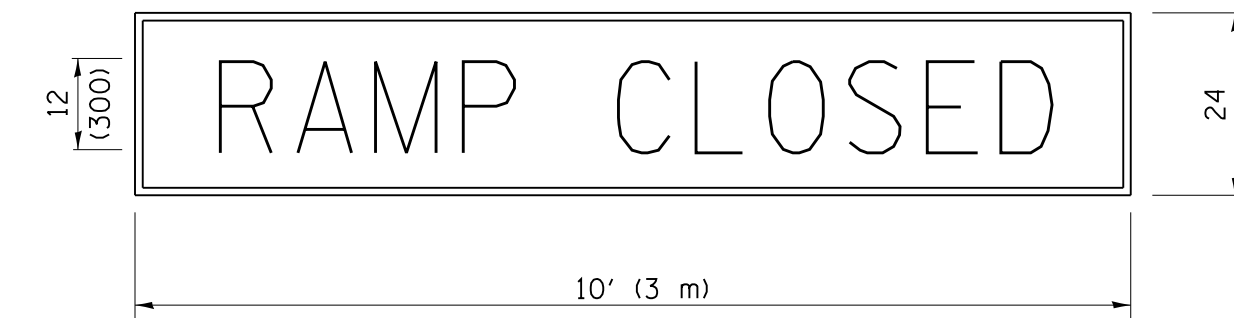
SYMBOLS

- ⊥ TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- ⊥ TYPE III BARRICADE WITH 2 FLASHING LIGHTS



DETAIL FOR REQUIRED BARRICADES & SIGNS

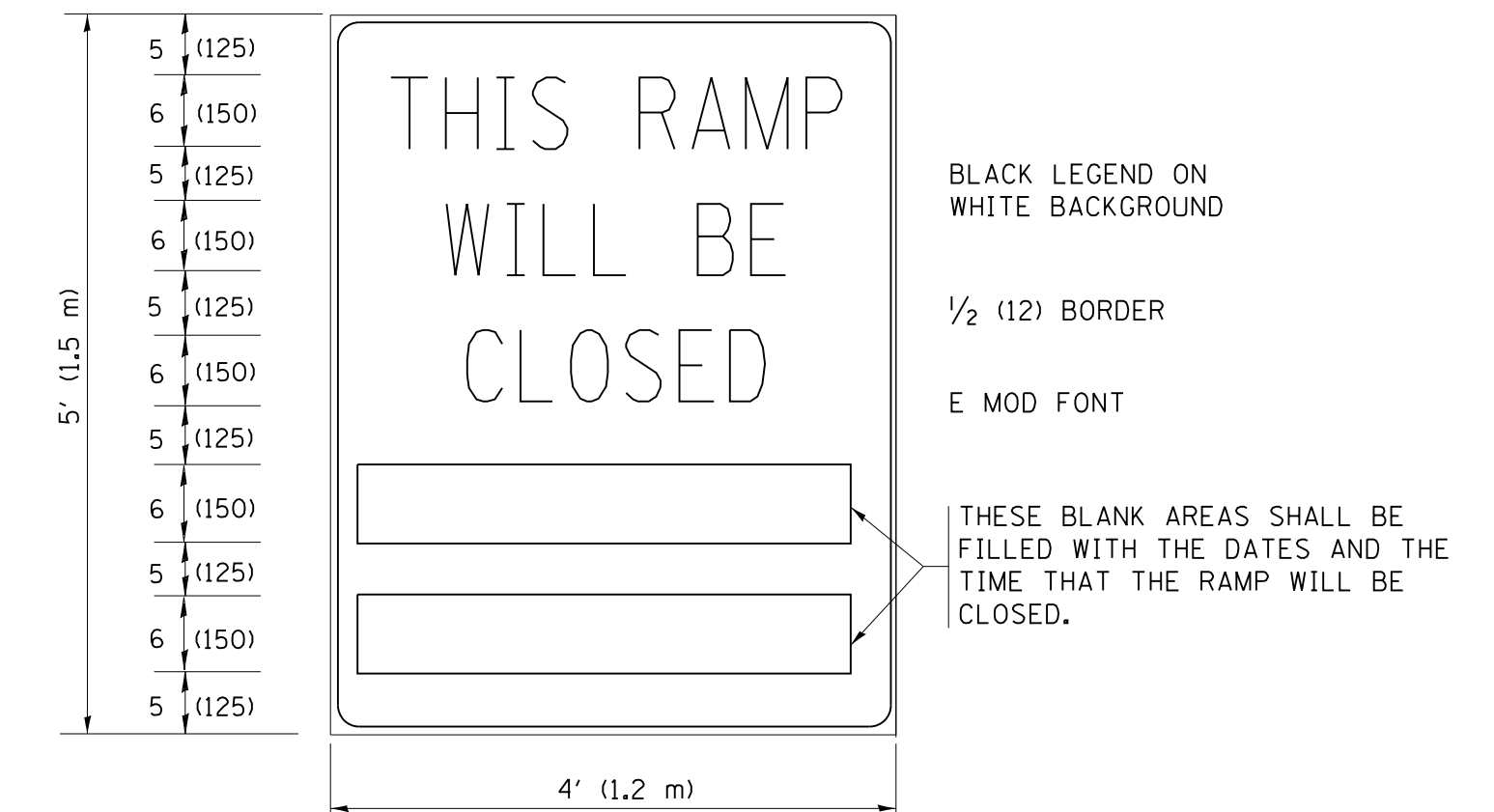
RAMP CLOSURE ADVANCE WARNING SIGN



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

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.

RAMP CLOSURE ADVANCE INFORMATION SIGN



BLACK LEGEND ON WHITE BACKGROUND

1/2 (12) BORDER

E MOD FONT

THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

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:

- ① CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- ② 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, PRECEDED 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.
- ⑨ 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.

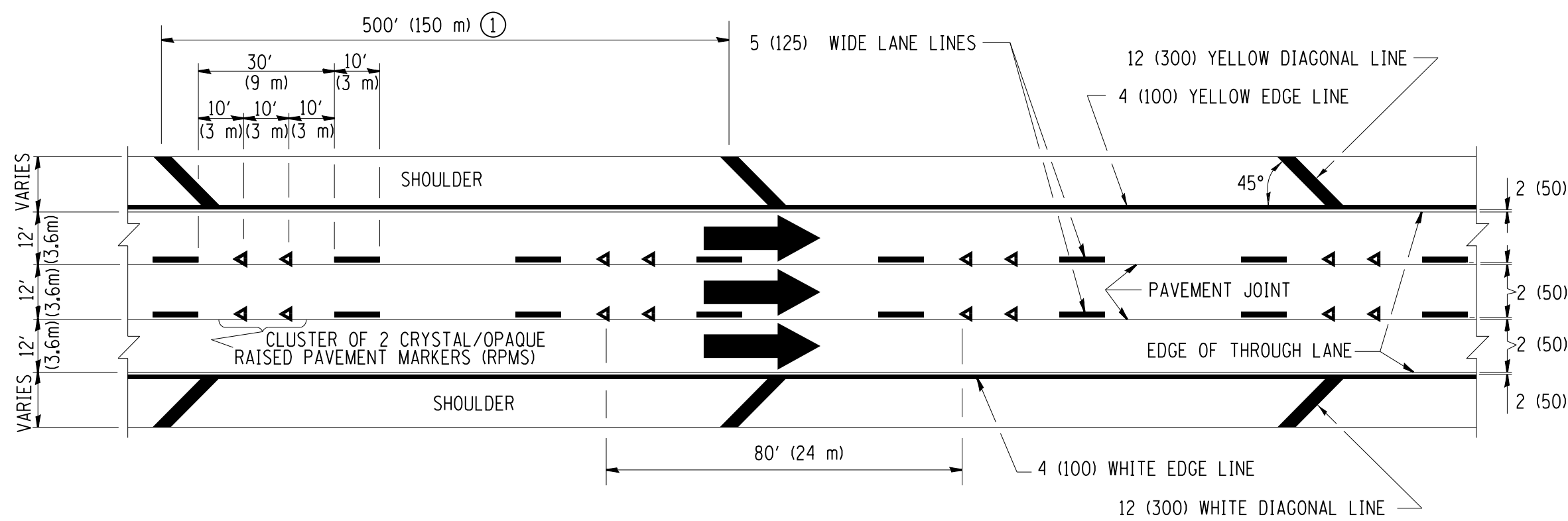
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	PLOT DATE = 2/3/2014	DATE - 02-83	REVISED - MD 06-13

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ENTRANCE AND EXIT RAMP
CLOSURE DETAILS**

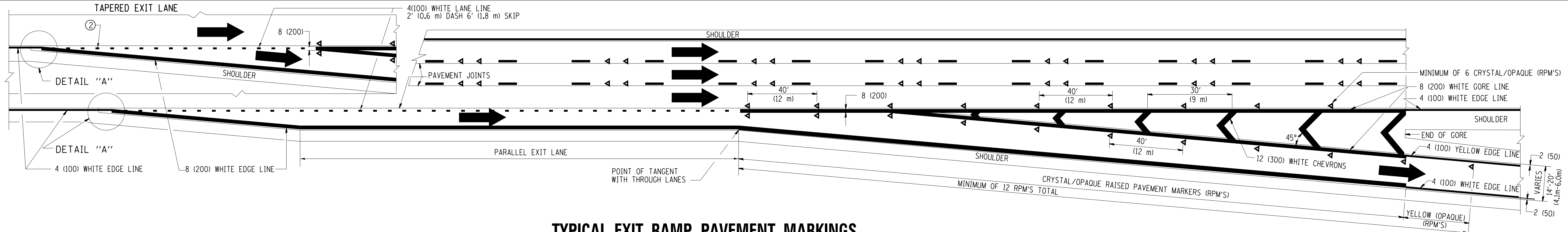
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1TWS-2)PPP	WILL	16	11
TC-08		CONTRACT NO. 60X53		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

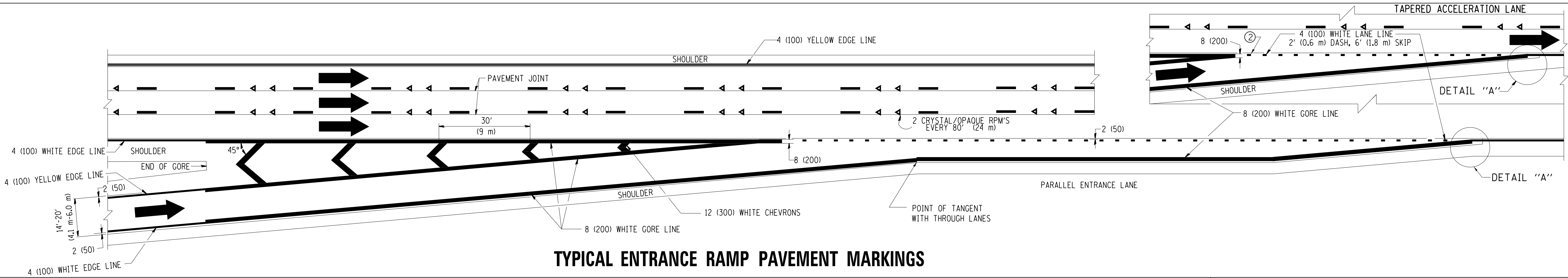


TYPICAL EDGE LINES & LANE LINES

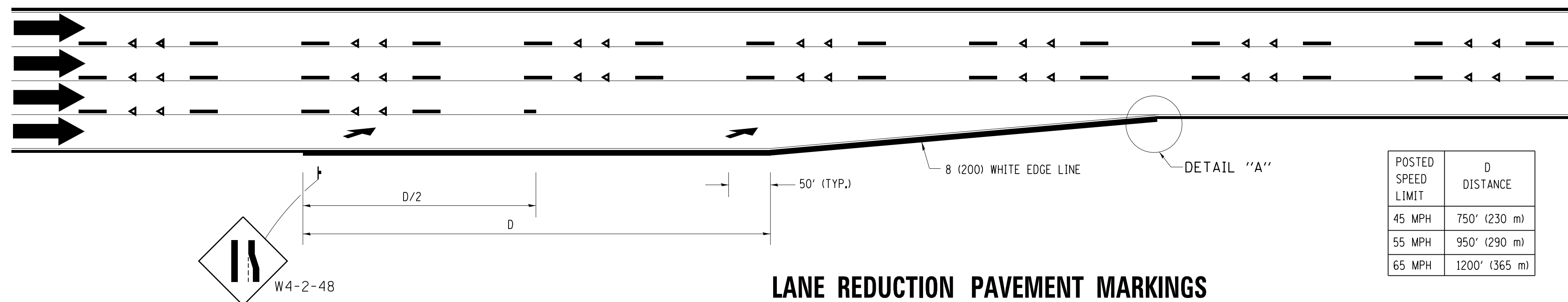
- PAVEMENT MARKING MATERIALS**
1. THERMO PLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR THE EDGE LINES, GORE LINES, AND DIAGONAL LINES ON BITUMINOUS PAVEMENT ONLY.
 2. PREFORMED PLASTIC TYPE B PAVEMENT MARKING LINE; INLaid OR GROOVED IN SHALL BE USED FOR ALL LANE LINES ON HMA PAVEMENT PROJECTS.
 3. POLYUREA PAVEMENT MARKING SHALL BE USED FOR ALL MARKINGS ON PCC PROJECTS.



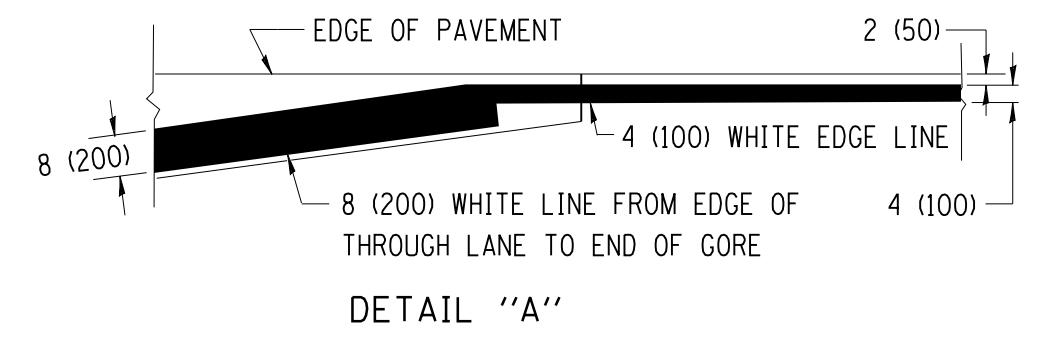
TYPICAL EXIT RAMP PAVEMENT MARKINGS



TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS



LANE REDUCTION PAVEMENT MARKINGS



- NOTES:**
- ① THE DIAGONAL LINES SHALL BE SPACED AT 40' (12 m) C-C ACROSS ALL STRUCTURES WHICH ARE 500' (150 m) OR LESS IN LENGTH. THE DIAGONAL LINES ARE NOT REQUIRED ON SHOULDERS WHICH ARE 6' (1.8 m) OR LESS IN WIDTH.
 - ② 4" (2' DASH, 6' SKIP) MARKING ON TAPERED ENTRANCE AND EXIT RAMP SHALL BE OMITTED ON TANGENT SECTIONS.

POSTED SPEED LIMIT	D DISTANCE
45 MPH	750' (230 m)
55 MPH	950' (290 m)
65 MPH	1200' (365 m)

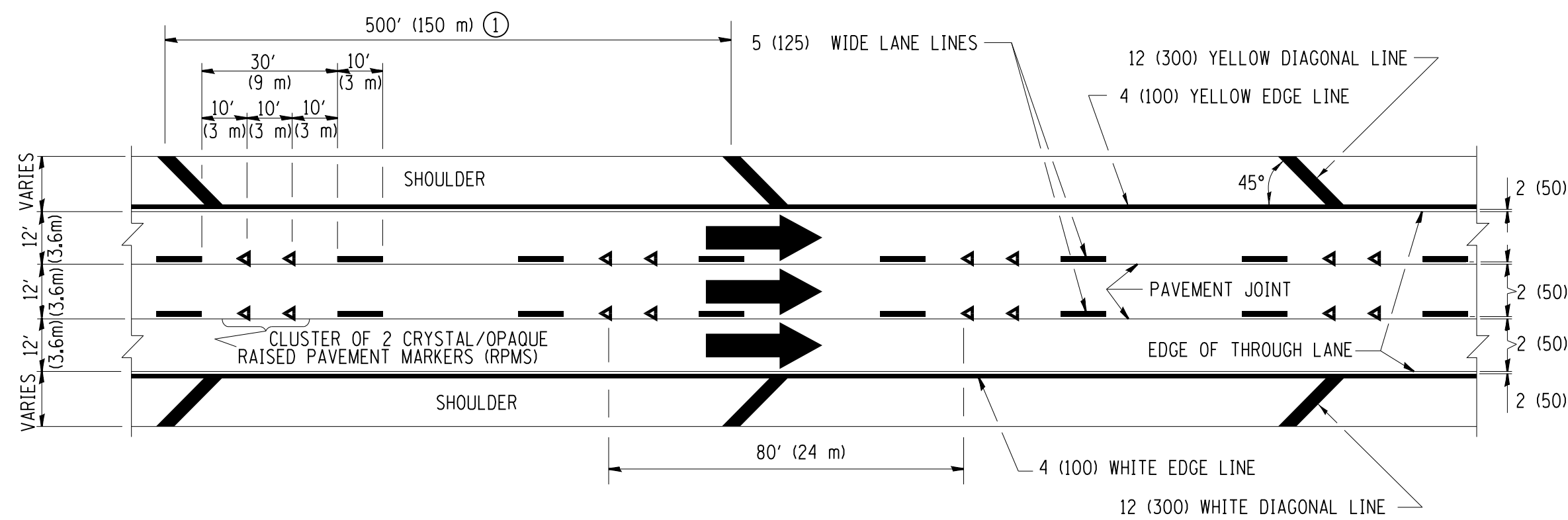
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 USER NAME = Gorenautob
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 DRAWN -
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 PLOT DATE = 2/3/2014

DESIGNED - D.W.S.
 DRAWN -
 CHECKED -
 DATE - 01-90
 REVISED - J.A.F. 02-06
 REVISED - S.P.B. 01-07
 REVISED - S.P.B. 01-10
 REVISED - M.D. 05-13

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

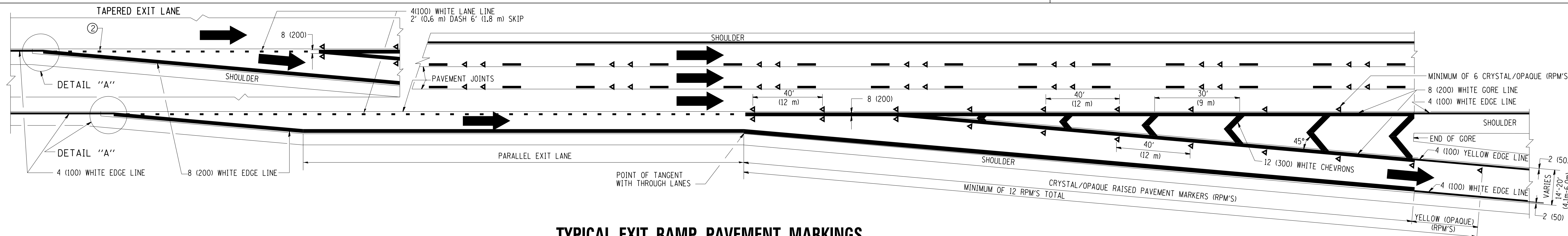
**MULTI-LANE FREEWAY
 PAVEMENT MARKING DETAILS**
 SCALE: NONE
 SHEET NO. 1 OF 2 SHEETS
 STA. TO STA.

F.A.I. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
 55 (99-1TWS-2)PP WILL 16 12
TC-12 CONTRACT NO. 60X53
 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

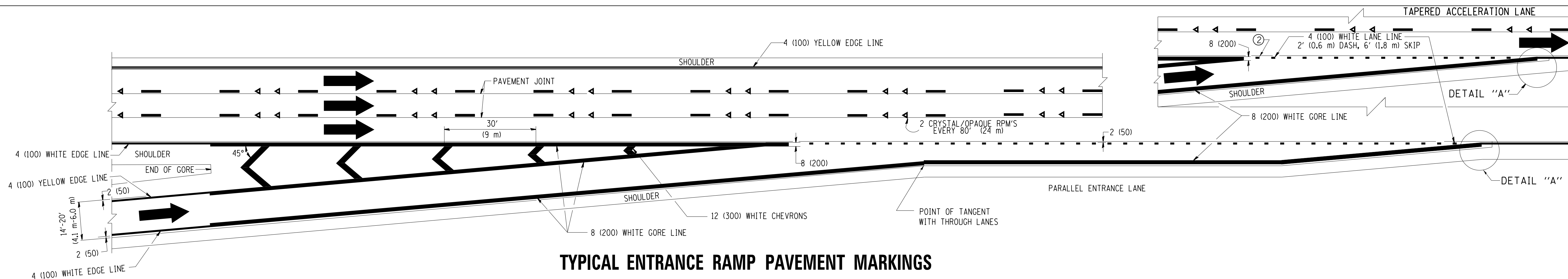


TYPICAL EDGE LINES & LANE LINES

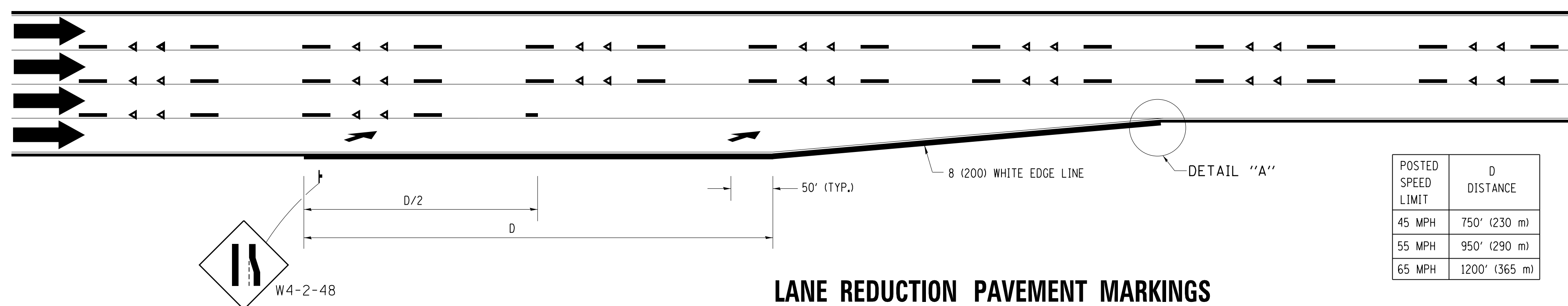
- PAVEMENT MARKING MATERIALS**
1. THERMO PLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR THE EDGE LINES, GORE LINES, AND DIAGONAL LINES ON BITUMINOUS PAVEMENT ONLY.
 2. PREFORMED PLASTIC TYPE B PAVEMENT MARKING LINE; INLAID OR GROOVED IN SHALL BE USED FOR ALL LANE LINES ON HMA PAVEMENT PROJECTS.
 3. POLYUREA PAVEMENT MARKING SHALL BE USED FOR ALL MARKINGS ON PCC PROJECTS.



TYPICAL EXIT RAMP PAVEMENT MARKINGS

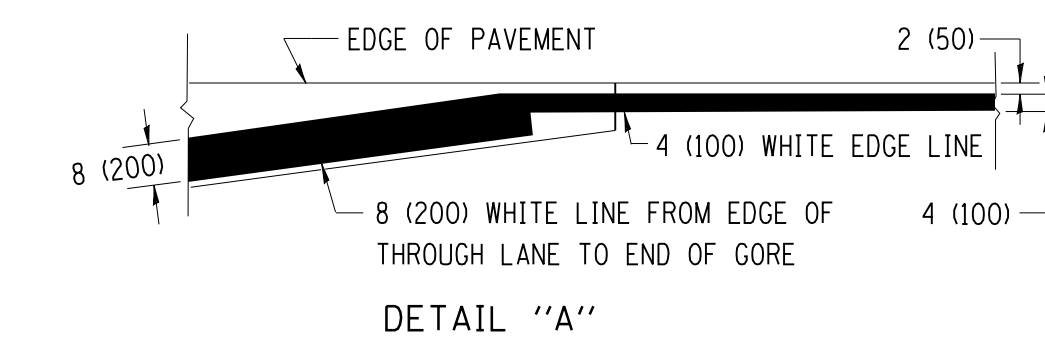


TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS

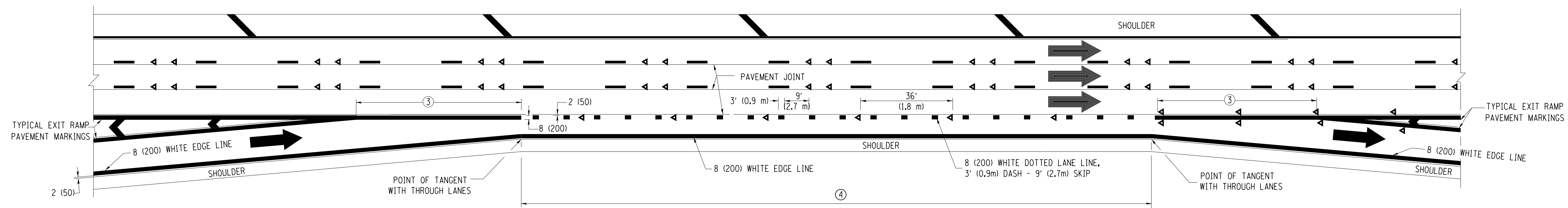


LANE REDUCTION PAVEMENT MARKINGS

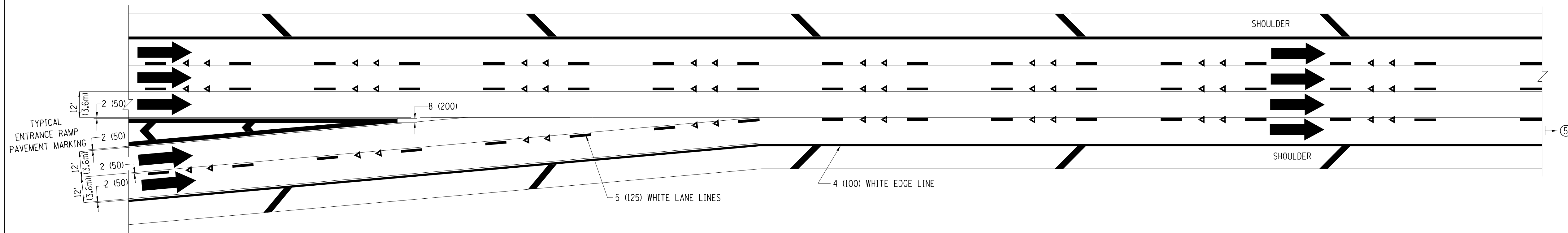
POSTED SPEED LIMIT	D DISTANCE
45 MPH	750' (230 m)
55 MPH	950' (290 m)
65 MPH	1200' (365 m)



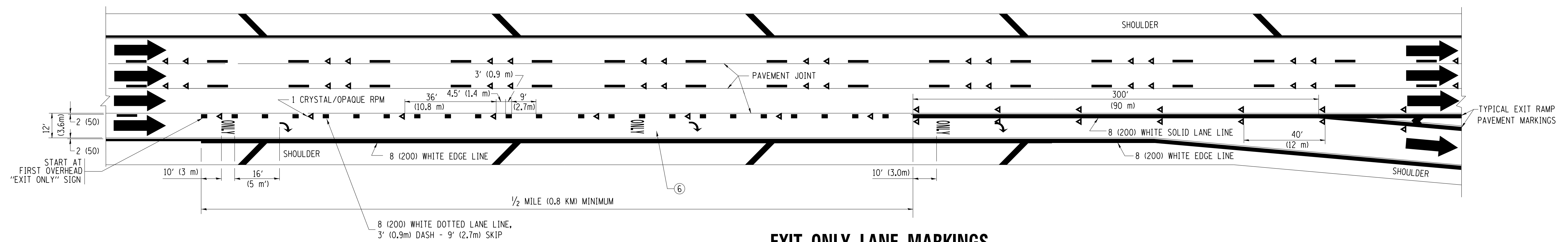
- NOTES:**
- ① THE DIAGONAL LINES SHALL BE SPACED AT 40' (12 m) C-C ACROSS ALL STRUCTURES WHICH ARE 500' (150 m) OR LESS IN LENGTH. THE DIAGONAL LINES ARE NOT REQUIRED ON SHOULDERS WHICH ARE 6' (1.8 m) OR LESS IN WIDTH.
 - ② 4" (2' DASH, 6' SKIP) MARKING ON TAPERED ENTRANCE AND EXIT RAMP SHALL BE OMITTED ON TANGENT SECTIONS.



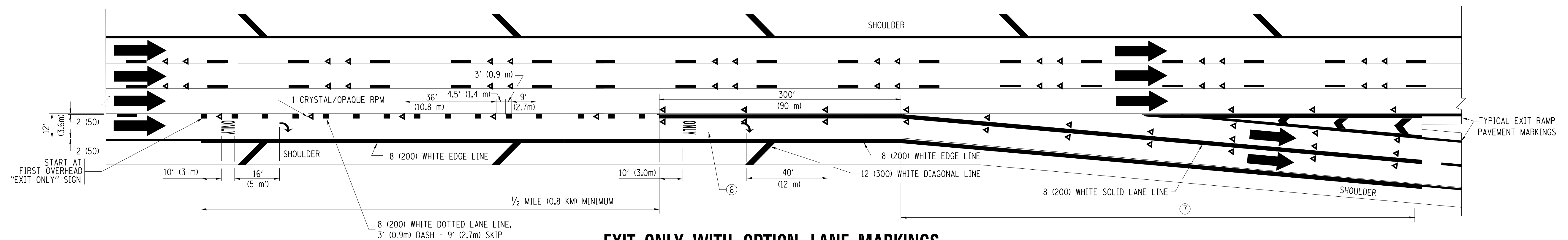
AUXILIARY LANE MARKINGS



TWO LANE ENTRANCE RAMP WITH MERGE MARKINGS



EXIT ONLY LANE MARKINGS



EXIT ONLY WITH OPTION LANE MARKINGS

- NOTES
- ③ OMIT WHEN LENGTH OF AUXILIARY LANE IS LESS THAN 500' (150 m).
 - ④ 8-INCH WIDE DOTTED LANE LINE MARKINGS SHALL BE USED WHEN THE LENGTH OF THE AUXILIARY LANE IS 2 MILES OR LESS.
 - ⑤ FOR TWO-LANE ENTRANCE RAMP, IF RIGHT LANE ENDS, USE TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS.
 - ⑥ ONLY AND ARROWS EQUALLY SPACED, 500' (150 m) MAXIMUM SPACING. FULL SIZE LETTERS AND ARROW SHALL BE USED.
 - ⑦ CONTINUE 8" SOLID LANE LINE THROUGH EXIT TO END OF PAVED GORE.

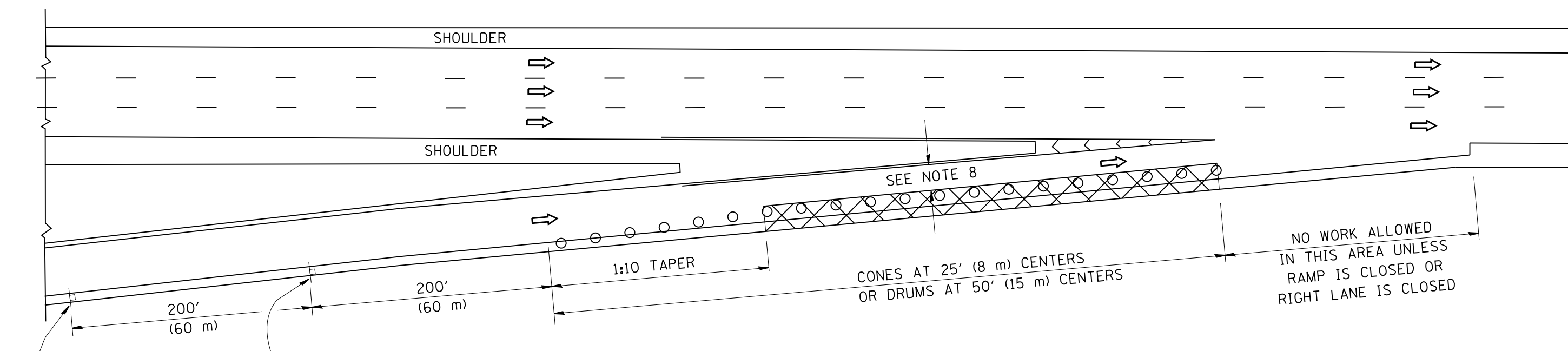
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

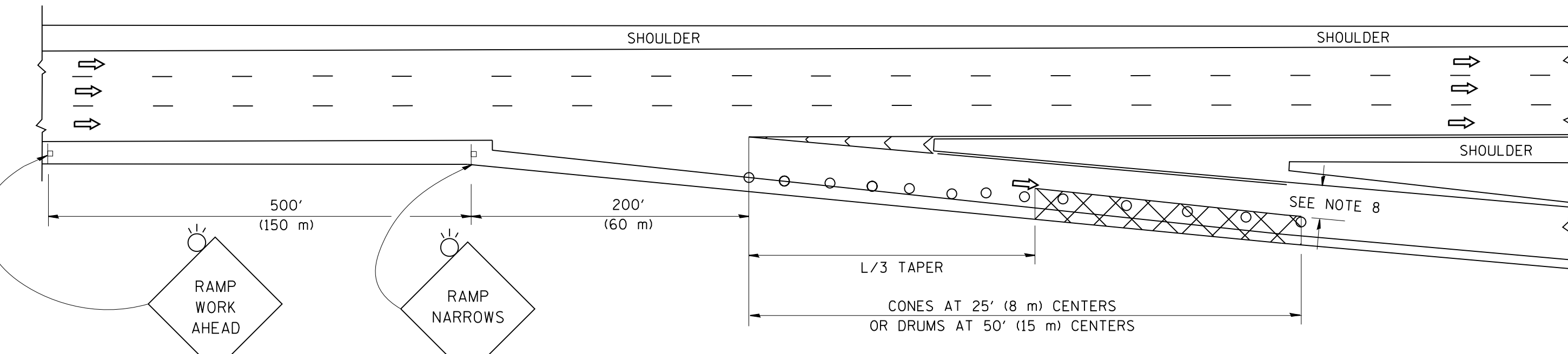
MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS			
SCALE: NONE	SHEET NO. 2	OF 2 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1TWS-2)PP	WILL	16	13
TC-12		CONTRACT NO. 60X53		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

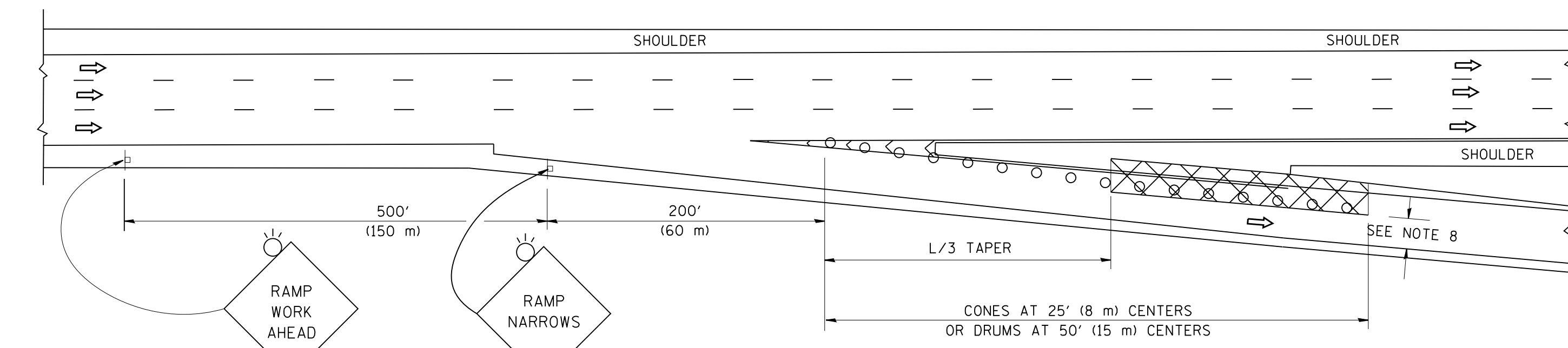
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

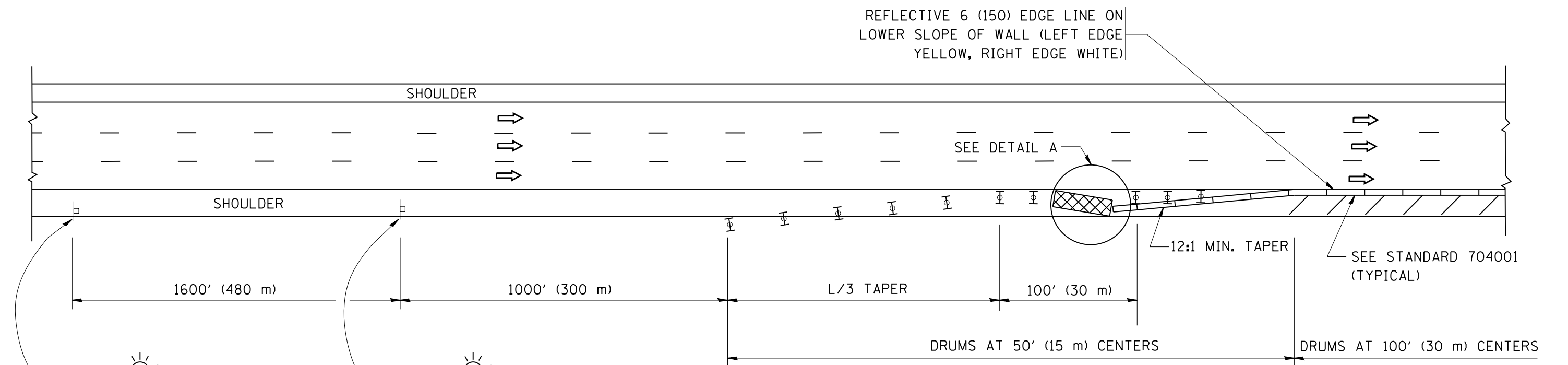
- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

GENERAL NOTES

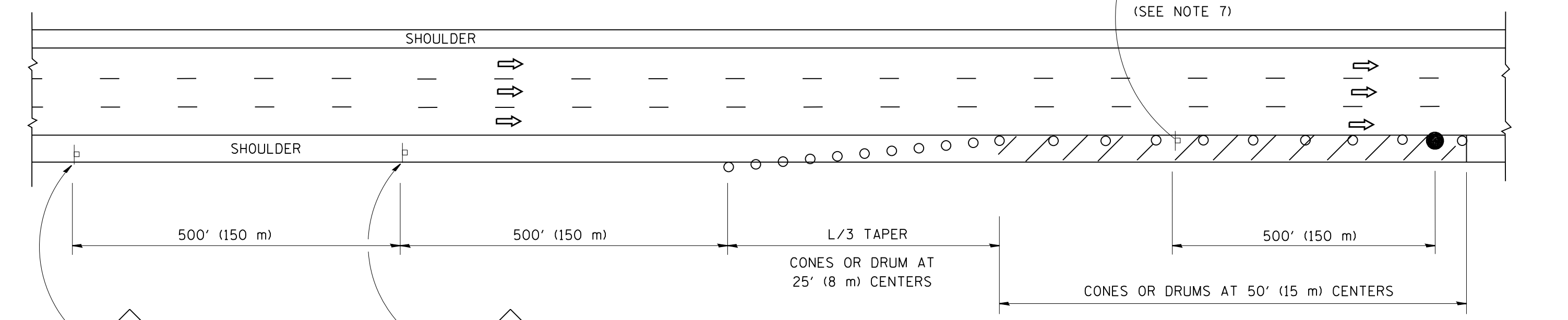
1. THE "L" DISTANCE EQUALS:

SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER:	METRIC ENGLISH L=0.65(W)(S) L=(W)(S)
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

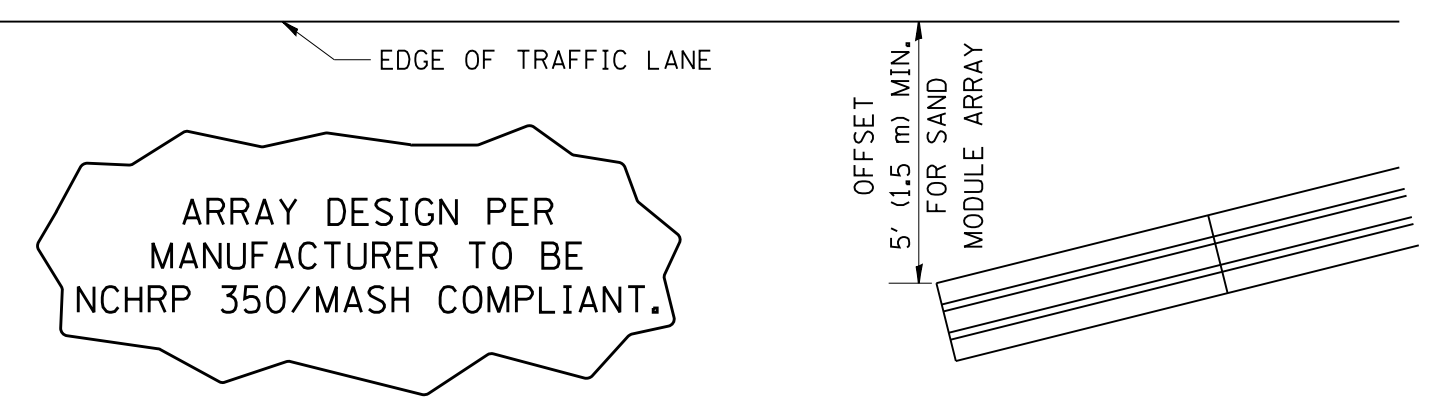


PERMANENT SHOULDER CLOSURE



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.



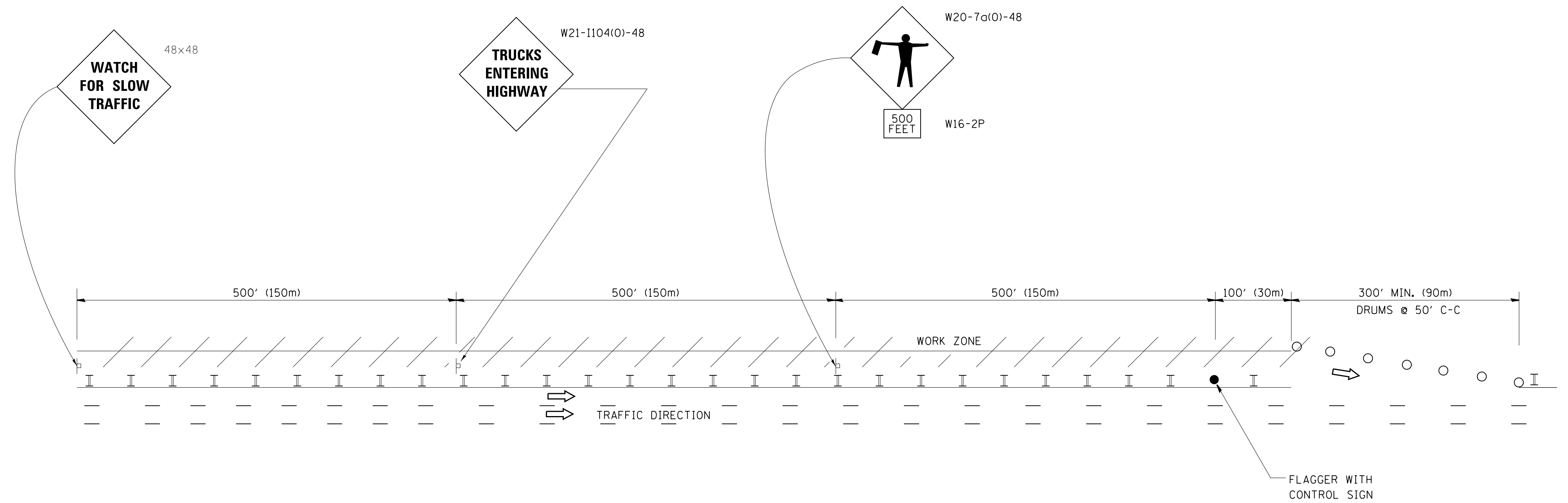
5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL 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.

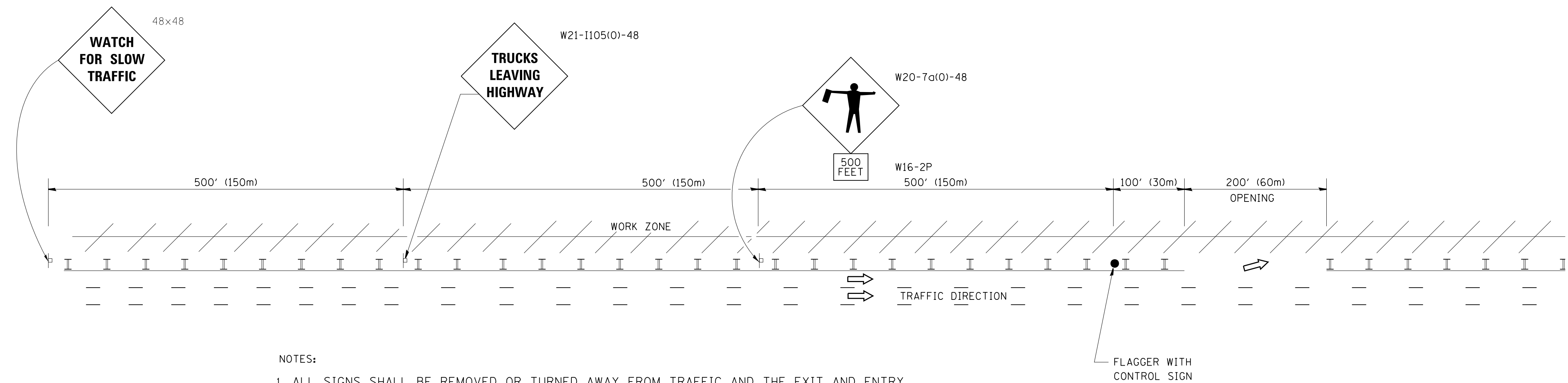
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et:\pw_work\pwork\gorengautab\0370719\1stStd.dgn	DRAWN - D.W.S.	REVISED - S.P.B. 01-07	55			(99-1TWS-2)PP	WILL	16	15	
PLOT SCALE = 50.0000' / 1"	CHECKED -	REVISED - S.P.B. 12-09	TC-17			CONTRACT NO. 60X53				
PLOT DATE = 2/3/2014	DATE - 11-96	REVISED - M.D. 06-13	SCALE: NONE			SHEET NO. 1 OF 1 SHEETS		STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

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 =	USER NAME = Gorengautab	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.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pw\work\pwidot\gorengautab\d0370719\1stStd.dgn		DRAWN -	REVISED - S.P.B. 01-07			55	(99-1TWS-2)PP	WILL	16	16
		CHECKED -	REVISED - S.P.B. 12-09			TC-18		CONTRACT NO. 60X53		
		DATE -	REVISED - M.D. 06-13			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
				SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.			