

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2016-001RS	COOK	22	1
		ILLINOIS	CONTRACT NO. 62C05	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

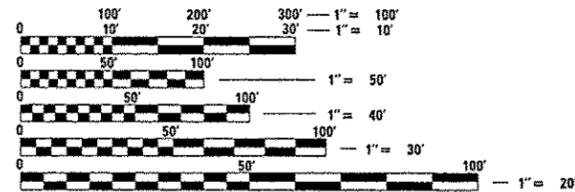
FAP ROUTE 342 (IL 53)  
LOC. 1: AT PALATINE RD. RAMPS  
LOC. 2: AT LAKE COOK RD. RAMPS  
SECTION: 2016-001RS  
MICRO-SURFACING (1ST PASS)  
COOK AND LAKE COUNTIES  
C-91-247-16



FOR INDEX OF SHEETS, SEE SHEET NO. 2

THIS PROJECT IS LOCATED IN:  
VILLAGE OF ARLINGTON HEIGHTS  
VILLAGE OF PALATINE AND  
VILLAGE OF LONG GROVE

FOR LOCATION MAP SEE SHEET NO. 3



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

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

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

CONTRACT NO. 62C05

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED April 1, 2016  
John Fortman, Jr.  
REGIONAL ENGINEER

May 6, 2016  
Muhammad N. Addis, P.E.  
ENGINEER OF DESIGN AND ENVIRONMENT

May 6, 2016  
Osman Osman, P.E.  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

SHEET NO.

DESCRIPTION

STATE STANDARDS

GENERAL NOTES:

1	TITLE SHEET
2	INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES
3	LOCATION MAP
4	SUMMARY OF QUANTITIES
5-6	TYPICAL SECTIONS
7-10	ROADWAY & PAVEMENT MARKING PLANS (PALATINE RD. RAMPS)
11-12	ROADWAY & PAVEMENT MARKING PLANS (LAKE COOK RD. RAMPS)
13-13A	PROPOSED DETOUR PLAN (LAKE COOK RD RAMPS)
14	PAVEMENT PATCHING FOR HOT-MIX ASPHALT SURFACED PAVEMENT (BD-22)
15	FREEWAY ENTRANCE AND EXIT RAMP CLOSURE DETAILS (TC-08)
16	FREEWAY SINGLE AND MULTI-LANE WEAVE (TC-09)
17	RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT) (TC-11)
18-19	MULTI-LANE FREEWAY PAVEMENT MARKING (TC-12)
20	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)
21	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES (TC-17)
22	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS (TC-21)

000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
442201-03	CLASS C AND D PATCHES
701400-08	APPROACH TO LANE CLOSURE, FREEWAY/ EXPRESSWAY
701401-09	LANE CLOSURE FREEWAY/ EXPRESSWAY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS > 45 MPH
701428-01	TRAFFIC CONTROL SETUP & REMOVAL FREEWAY/EXPRESSWAY
701446-07	TWO LANE CLOSURE FREEWAY/EXPRESSWAY
701901-05	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKING

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

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, THE CITY OF ROLLING MEADOWS, AND THE VILLAGES OF ARLINGTON HEIGHTS, PALATINE, & LONG GROVE.

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

ALL HOT-MIX ASPHALT PAVEMENT PATCHING SHALL BE CLASS D, LOCATIONS TO BE DETERMINED IN FIELD BY RESIDENT ENGINEER.

THE RESIDENT ENGINEER SHALL VERIFY THE LOCATIONS OF ALL EXISTING PAVEMENT MARKINGS PRIOR TO MICRO-SURFACING.

THE RESIDENT ENGINEER SHALL CONTACT WALTER CZARNY, AREA TRAFFIC FIELD ENGINEER VIA EMAIL AT WALTER.CZARNY@ILLINOIS.GOV OR PHONE (847)-438-2300. A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

THE FIBER MODIFIED ASPHALT BINDER MIX FOR CRACK/JOINT SEALING SHALL BE PREMIXED SEALANT.

PRIOR TO APPLYING THE MICROSURFACING MIXTURE, THE CONTRACTOR SHALL CLEAN THE PAVEMENT SURFACE BY REMOVING VEGETATION, LOOSE MATERIALS, DIRT, MUD AND OTHER OBJECTIONABLE MATERIALS.

THE CONTRACTOR SHALL DEVISE AND SUBMIT A JOINT PLAN THAT MEETS THE APPROVAL OF THE ENGINEER.

WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.

THE RESIDENT ENGINEER SHALL CONTACT THE AREA EXPRESSWAY FIELD ENGINEER AT (847) 705-4153 A MINIMUM OF 2 WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS.

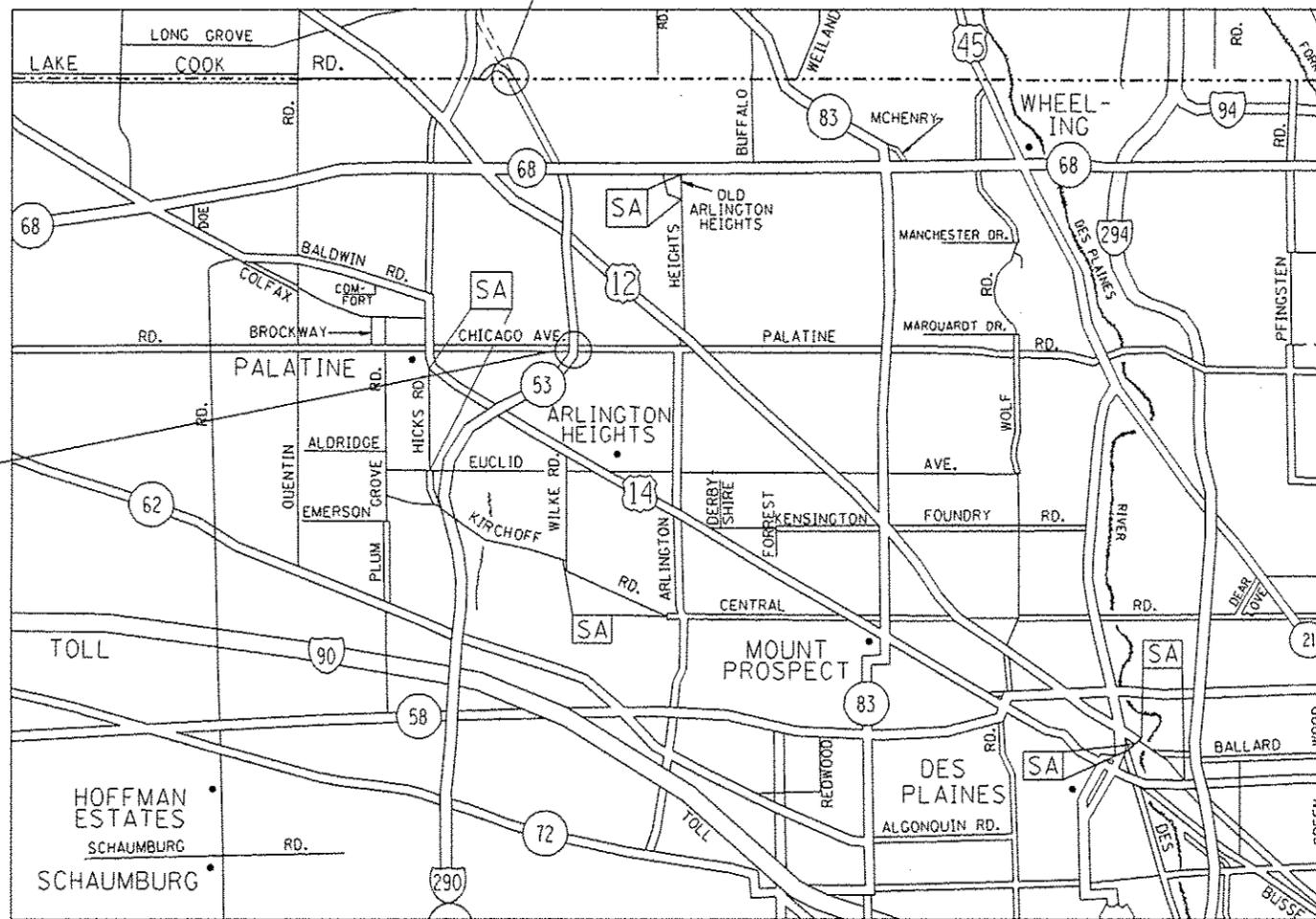
PAVEMENT MARKING TAPE, TYPE III SHALL BE USED AS TEMPORARY PAVEMENT MARKINGS ON ALL FINAL SURFACES. THE REMOVAL OF THE PAVEMENT MARKING TAPE SHALL BE INCLUDED IN THE COST OF PAVEMENT MARKING TAPE, TYPE III OF THE LINE WIDTH SPECIFIED.

FILE NAME :	USER NAME :	DESIGNED :	REVISED :	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL 53 AT PALATINE RD AND AT LAKE COOK RD (RAMPS) INDEX OF SHEETS STATE STANDARDS AND GENERAL NOTES</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pu:\VL084EBIQ\INTEG-illinois.gov\PI001\Documents\IDOT Offices\District 1\Projects\012470RAMPS\Design\0124716-shs-gennote.dwg	torisqfm	-	4/27/2016			342	2010-103-RS	COOK & LAKE	22	2	
PLOT SCALE :	CHECKED :	REVISOR :	DATE :			CONTRACT NO. 62C05					
Default	5/6/2016	-	-			SCALE:	SHEET	OF	SHEETS	STA.	TO STA.



LOCATION 1:  
AT PALATINE ROAD RAMPS  
(8 RAMPS)

LOCATION 2:  
AT LAKE COOK ROAD RAMPS  
(4 RAMPS)



**PALATINE AND VERNON TOWNSHIP**

PALATINE RD RAMPS GROSS AND NET LENGTH = 8516.07 FT. = 1.613 MILE

LAKE COOK RD RAMPS GROSS AND NET LENGTH = 5384.43 FT. = 1.020 MILE

FILE NAME *	USER NAME * calledolrdv	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LOCATION MAP IL 53 AT PALATINE RD AND AT LAKE COOK RD (RAMPS)</b>				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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Default	PLOT SCALE * 100,0000 1/1 in.	CHECKED -	REVISED -		CONTRACT NO. 62C05				ILLINOIS FED. AID PROJECT				
	DATE * 4/1/2016	DATE -	REVISED -		SCALE:	SHEET OF SHEETS	STA. TO STA.						

URBAN

URBAN

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE						
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	100% STATE 0005 COOK COUNTY	100% STATE 0005 LAKE COUNTY				
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	21545	16374	5171				
44201815	CLASS D PATCHES, TYPE II, 14 INCH	SO YD	386	297	89				
44201819	CLASS D PATCHES, TYPE III, 14 INCH	SO YD	232	179	53				
44201821	CLASS D PATCHES, TYPE IV, 14 INCH	SQ YD	154	119	35				
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	2	1				
67100100	MOBILIZATION	LSUM	1	0.8	0.2				
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	3	2	1				
70300510	PAVEMENT MARKING TAPE, TYPE III - LETTERS AND SYMBOLS	SO FT	192	167	25				
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	28083	21554	6529				
70300550	PAVEMENT MARKING TAPE, TYPE III 8"	FOOT	285	285					
70300560	PAVEMENT MARKING TAPE, TYPE III 12"	FOOT	129		129				
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	192	167	25				
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	28083	21554	6529				
78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	285	285					
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	129		129				

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE						
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	100% STATE 0005 COOK COUNTY	100% STATE 0005 LAKE COUNTY				
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	200	152	48				
78300100	PAVEMENT MARKING REMOVAL	SO FT	9817	7512	2305				
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	150	114	36				
X0326218	FIBER-MODIFIED ASPHALT CRACK SEALING	FOOT	1700	1292	408				
X0326219	BUMP REMOVAL	EACH	24	18	6				
X0326220	MICRO-SURFACING RUT FILLING	FOOT	1000	760	240				
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	LSUM	1	0.8	0.2				
Z0063804	MICRO-SURFACING, SINGLE PASS, TYPE II, MIXTURE D	SO YD	47877	36387	11490				
	* SPECIALTY ITEM								

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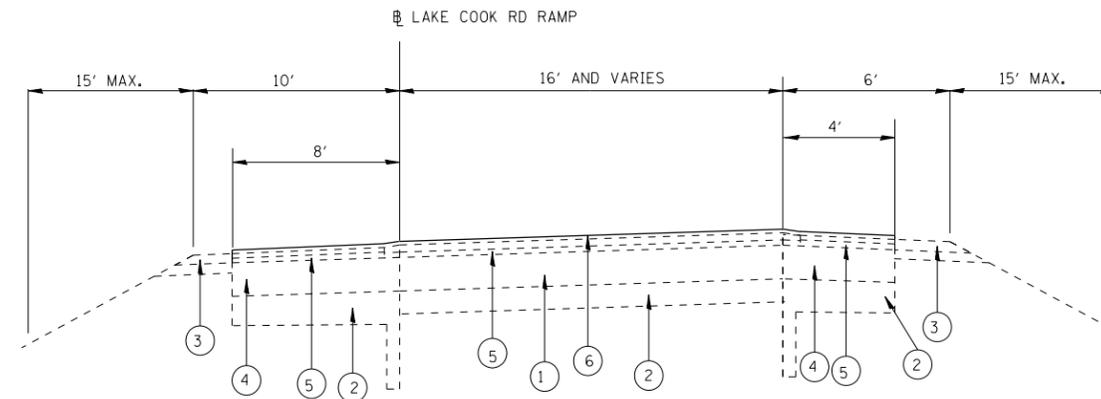
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

IL 53 AT PALATINE RD AND AT LAKE COOK RD (RAMPS) SUMMARY OF QUANTITIES

F.A. RTE. 342	SECTION 2016-001RS	COUNTY COOK & LAKE	TOTAL SHEETS 22	SHEET NO. 4
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62C05	

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





**LEGEND**

- ① EXISTING P.C. CONCRETE PAVEMENT, 11'±
- ② EXISTING SUB-BASE GRANULAR MATERIAL
- ③ EXISTING AGGREGATE SHOULDER, TYPE B
- ④ EXISTING HOT-MIX ASPHALT SHOULDER
- ⑤ EXISTING HOT-MIX ASPHALT SURFACE, 2 1/4'±
- ⑥ PROPOSED MICRO-SURFACING HOT MIX ASPHALT, MIXTURE D, TYPE 2

**LAKE COOK RD ENTRANCE AND EXIT RAMPS  
EXISTING AND PROPOSED TYPICAL SECTION**

FILE NAME =	USER NAME = valledolidv	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL SECTIONS LOC 2: IL 53 AT LAKE COOK RD (RAMPS)</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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Default	PLOT SCALE = 100.0000' / 1in.	DATE -	REVISED -		CONTRACT NO. 62C05				ILLINOIS FED. AID PROJECT				
	PLOT DATE = 4/1/2016				SCALE: NONE	SHEET	OF	SHEETS	STA.	TO	STA.		

**LEGEND**

- ① THERMOPLASTIC PAVEMENT MARKING  
4" YELLOW EDGE LINE
- ② THERMOPLASTIC PAVEMENT MARKING  
4" WHITE EDGE LINE
- ③ THERMOPLASTIC PAVEMENT MARKING  
8" WHITE EDGE LINE
- ④ THERMOPLASTIC PAVEMENT MARKING  
12" WHITE 45° DIAGONAL @ 500' C-C
- ⑤ THERMOPLASTIC PAVEMENT MARKING  
12" YELLOW 45° DIAGONAL @ 500' C-C
- ⑥ THERMOPLASTIC PAVEMENT MARKING  
LETTERS AND SYMBOLS

NOTE: WRONG WAY ARROWS ARE TO BE PLACED ON ALL EXIT RAMPS. FINAL LOCATIONS ARE TO BE DETERMINED BY THE AREA EXPRESSWAYS FIELD ENGINEER PRIOR TO PLACEMENT.



**PROJECT LIMIT**  
STA. 28 + 28.24

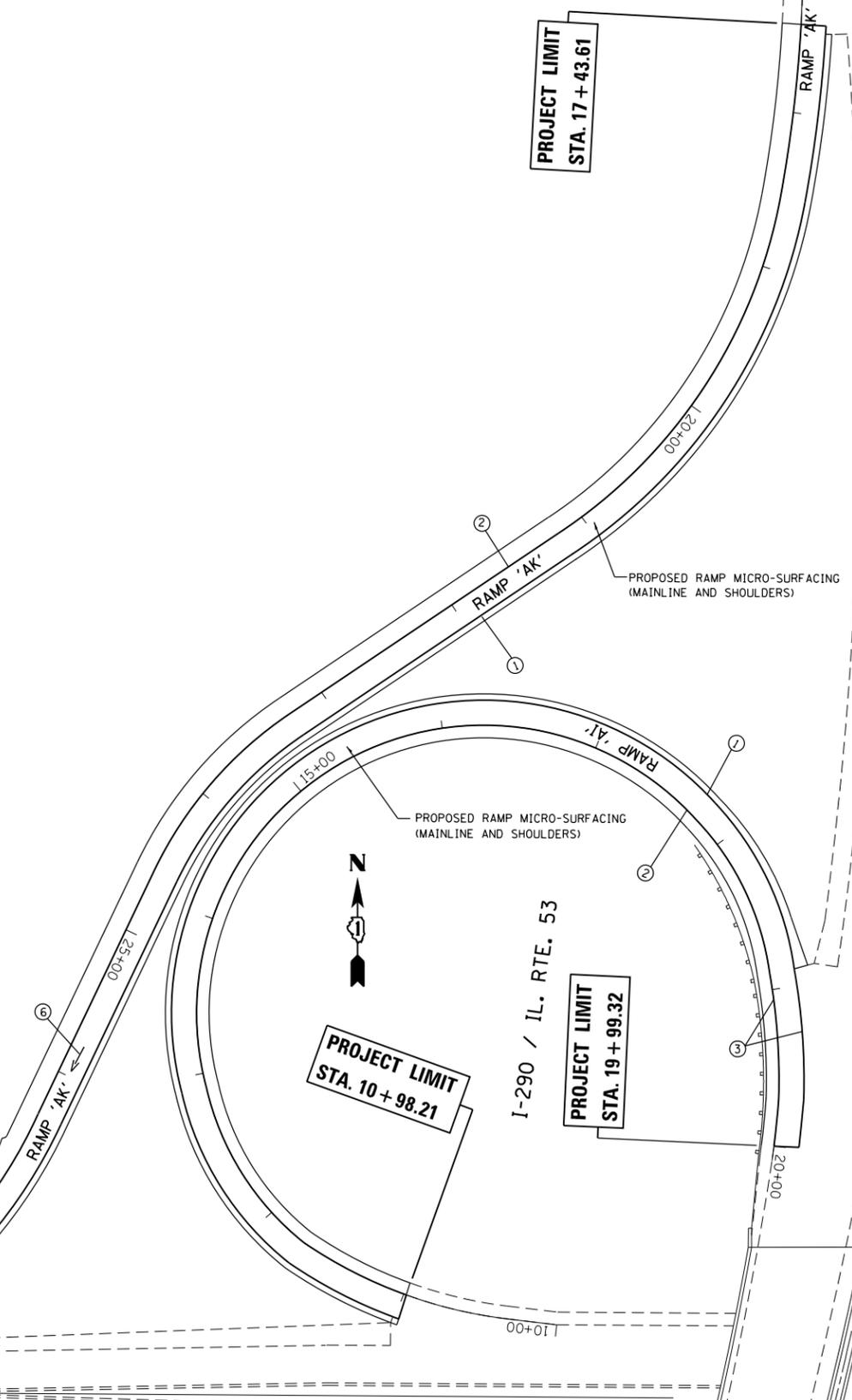
**PROJECT LIMIT**  
STA. 10 + 98.21

**PROJECT LIMIT**  
STA. 19 + 99.32

**PROJECT LIMIT**  
STA. 17 + 43.61

PALATINE RD.

I-290 / IL. RTE. 53



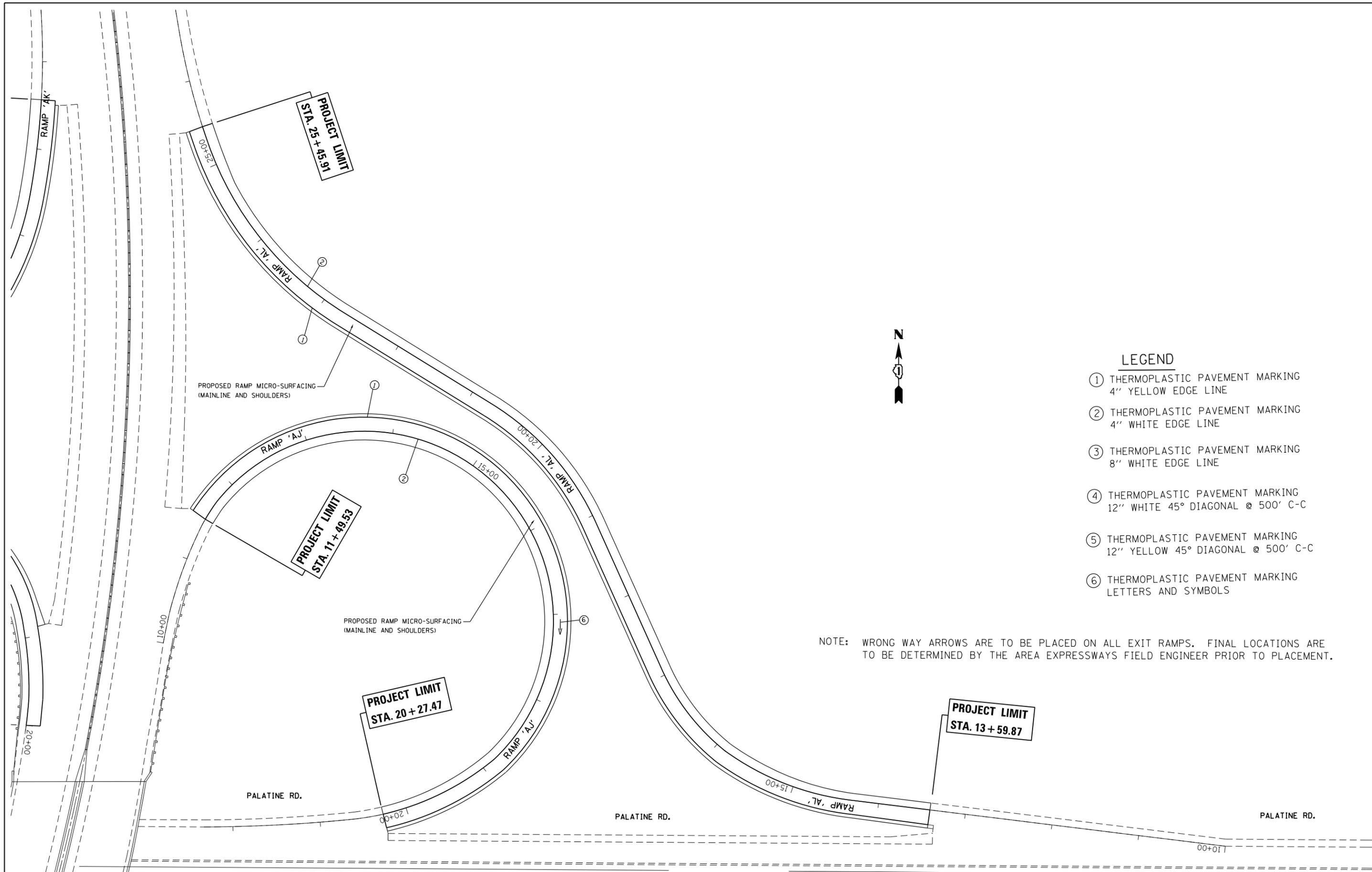
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ROADWAY AND PAVEMENT MARKING PLAN  
LOC 1: IL 53 AT PALATINE RD (RAMPS)**

SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2016-001RS	COOK & LAKE	22	7
CONTRACT NO. 62C05				
ILLINOIS FED. AID PROJECT				



- LEGEND**
- ① THERMOPLASTIC PAVEMENT MARKING  
4" YELLOW EDGE LINE
  - ② THERMOPLASTIC PAVEMENT MARKING  
4" WHITE EDGE LINE
  - ③ THERMOPLASTIC PAVEMENT MARKING  
8" WHITE EDGE LINE
  - ④ THERMOPLASTIC PAVEMENT MARKING  
12" WHITE 45° DIAGONAL @ 500' C-C
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  - ⑥ THERMOPLASTIC PAVEMENT MARKING  
LETTERS AND SYMBOLS

NOTE: WRONG WAY ARROWS ARE TO BE PLACED ON ALL EXIT RAMPS. FINAL LOCATIONS ARE TO BE DETERMINED BY THE AREA EXPRESSWAYS FIELD ENGINEER PRIOR TO PLACEMENT.

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

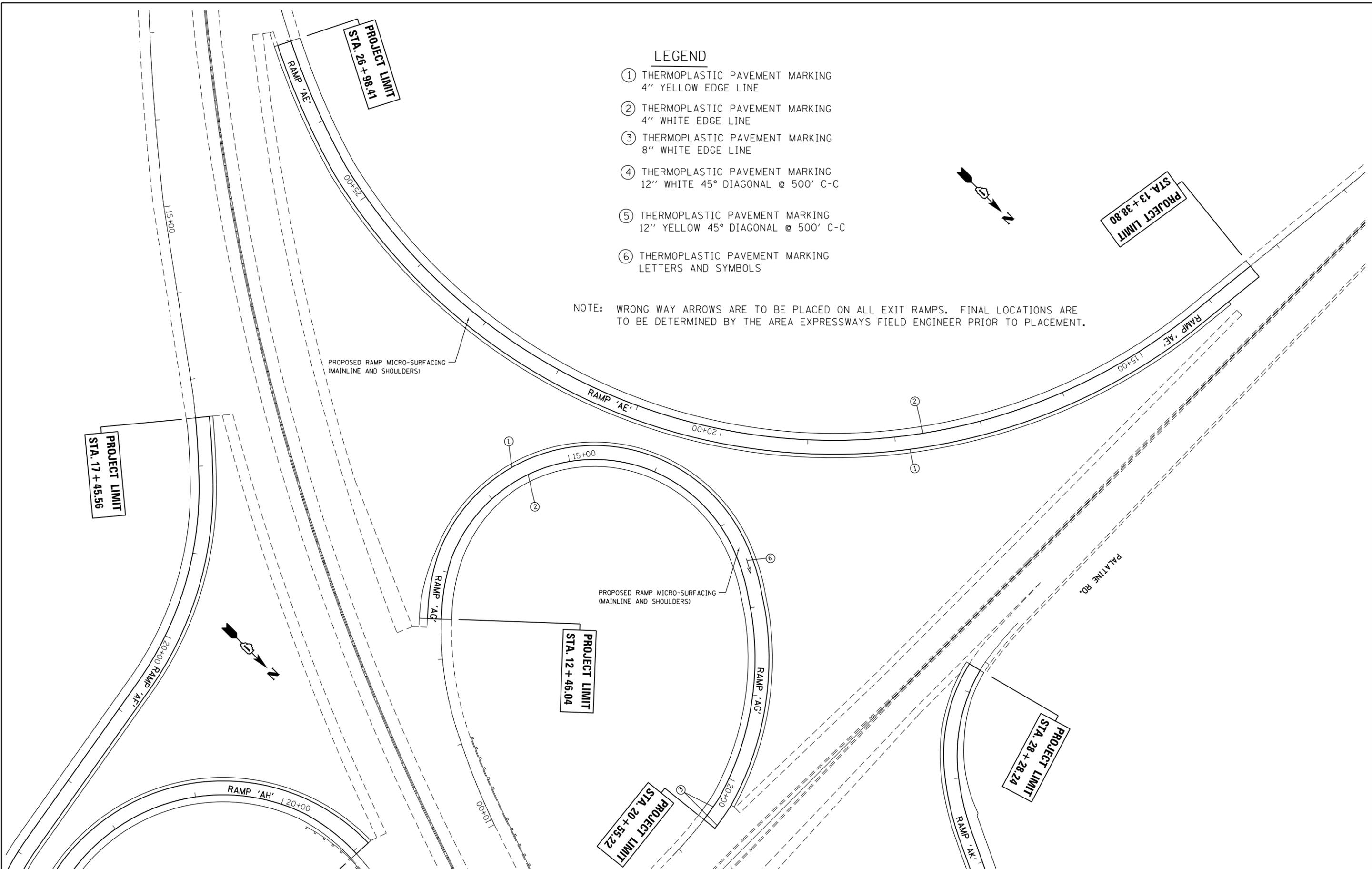
<b>ROADWAY AND PAVEMENT MARKING PLANS</b>			
<b>LOC 1: IL 53 AT PALATINE RD (RAMPS)</b>			
SCALE: 1" = 50'	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2016-001RS	COOK & LAKE	22	8
CONTRACT NO. 62C05				
ILLINOIS FED. AID PROJECT				

**LEGEND**

- ① THERMOPLASTIC PAVEMENT MARKING  
4" YELLOW EDGE LINE
- ② THERMOPLASTIC PAVEMENT MARKING  
4" WHITE EDGE LINE
- ③ THERMOPLASTIC PAVEMENT MARKING  
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LETTERS AND SYMBOLS

NOTE: WRONG WAY ARROWS ARE TO BE PLACED ON ALL EXIT RAMPS. FINAL LOCATIONS ARE TO BE DETERMINED BY THE AREA EXPRESSWAYS FIELD ENGINEER PRIOR TO PLACEMENT.



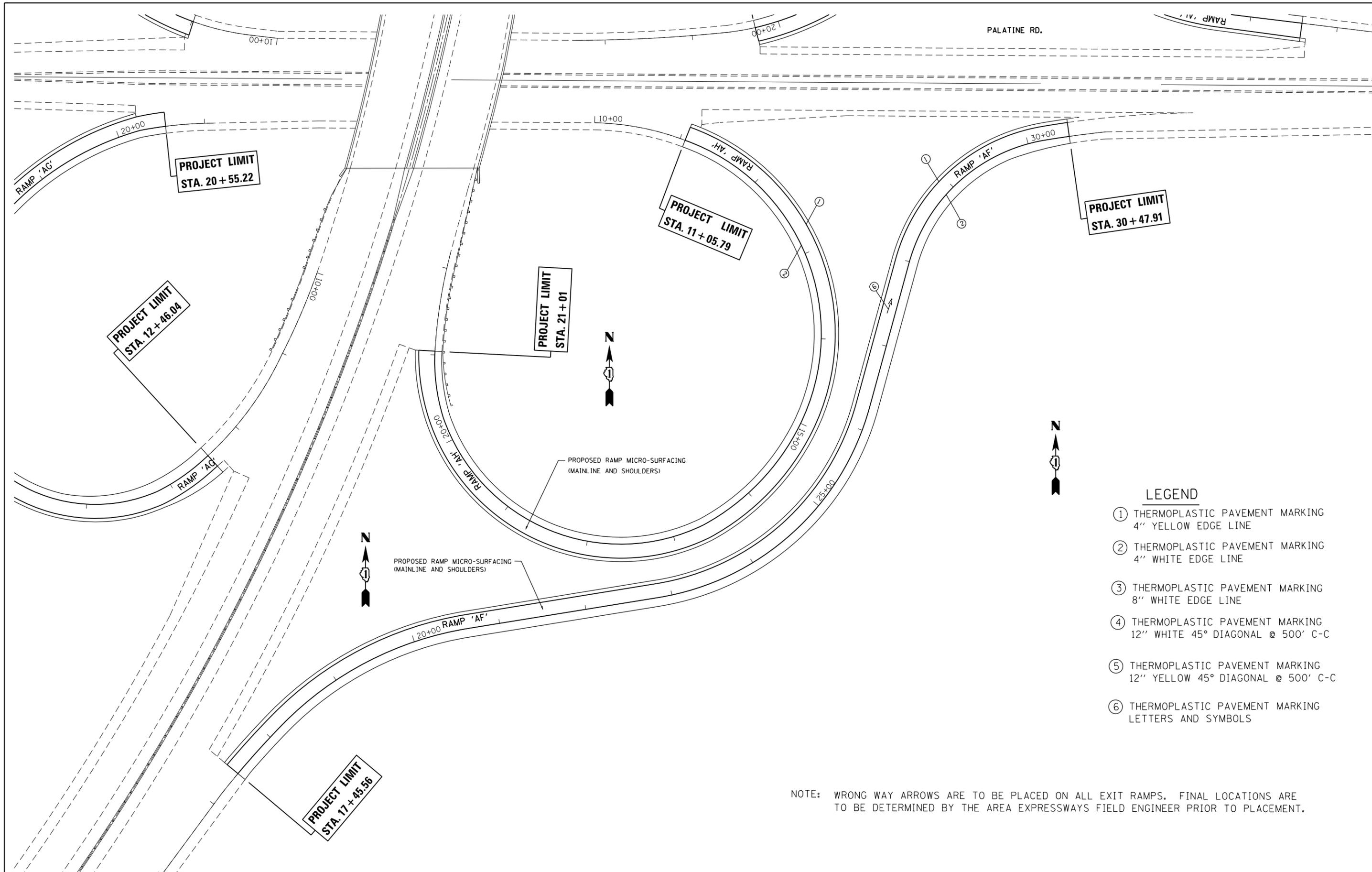
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	PLOT DATE = 5/5/2016	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ROADWAY AND PAVEMENT MARKING PLANS  
LOC 1: IL 53 AT PALATINE RD (RAMPS)**

SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2016-00IRS	COOK & LAKE	22	9
CONTRACT NO. 62C05			ILLINOIS FED. AID PROJECT	



NOTE: WRONG WAY ARROWS ARE TO BE PLACED ON ALL EXIT RAMPS. FINAL LOCATIONS ARE TO BE DETERMINED BY THE AREA EXPRESSWAYS FIELD ENGINEER PRIOR TO PLACEMENT.

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	PLOT DATE = 5/5/2016	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ROADWAY AND PAVEMENT MARKING PLAN  
LOC 1: IL 53 AT PALATINE RD. (RAMPS)**

SCALE: 1" = 50'      SHEET    OF    SHEETS    STA.            TO STA.

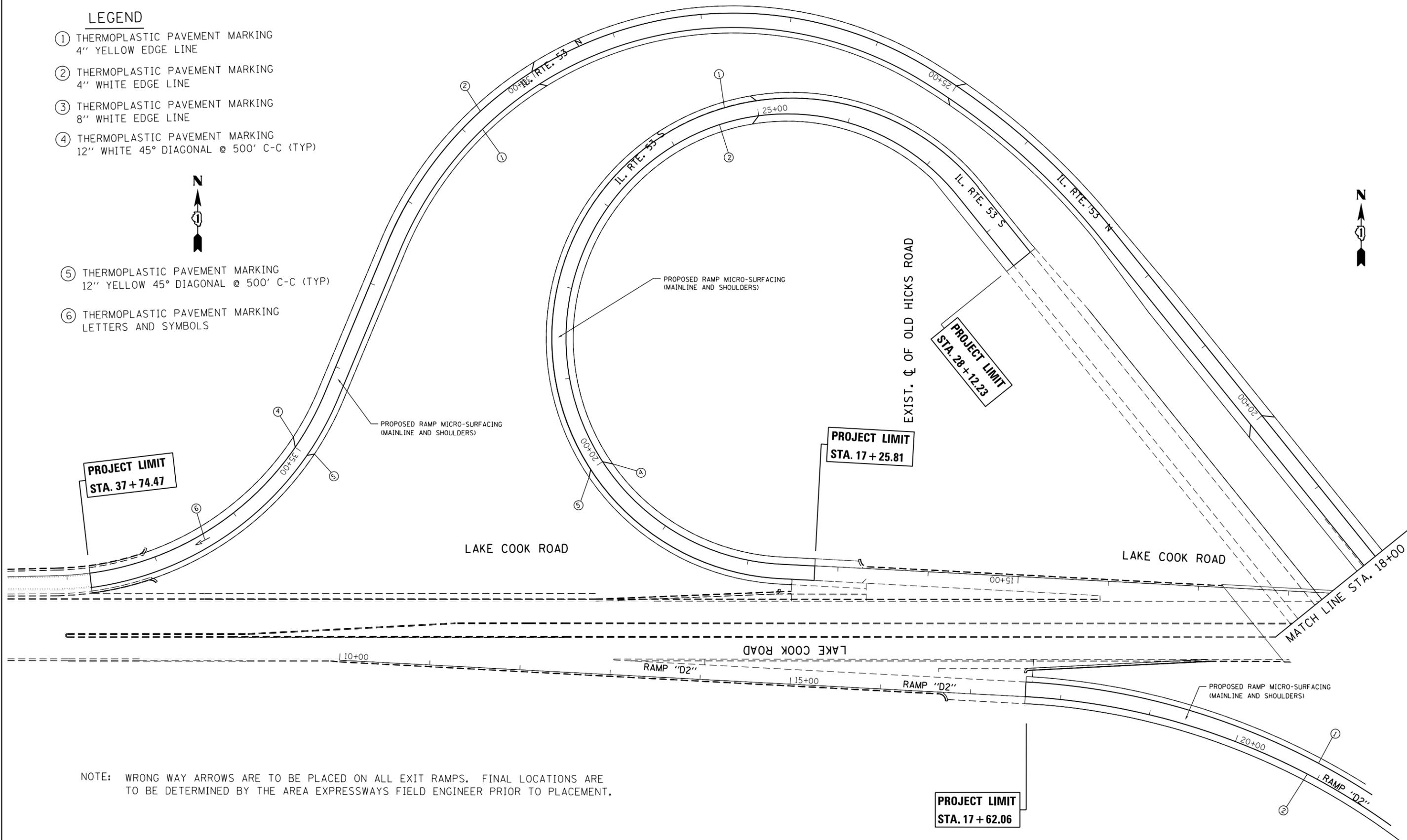
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2016-00IRS	COOK & LAKE	22	10
CONTRACT NO. 62C05				
ILLINOIS FED. AID PROJECT				

**LEGEND**

- ① THERMOPLASTIC PAVEMENT MARKING  
4" YELLOW EDGE LINE
- ② THERMOPLASTIC PAVEMENT MARKING  
4" WHITE EDGE LINE
- ③ THERMOPLASTIC PAVEMENT MARKING  
8" WHITE EDGE LINE
- ④ THERMOPLASTIC PAVEMENT MARKING  
12" WHITE 45° DIAGONAL @ 500' C-C (TYP)



- ⑤ THERMOPLASTIC PAVEMENT MARKING  
12" YELLOW 45° DIAGONAL @ 500' C-C (TYP)
- ⑥ THERMOPLASTIC PAVEMENT MARKING  
LETTERS AND SYMBOLS



NOTE: WRONG WAY ARROWS ARE TO BE PLACED ON ALL EXIT RAMPS. FINAL LOCATIONS ARE TO BE DETERMINED BY THE AREA EXPRESSWAYS FIELD ENGINEER PRIOR TO PLACEMENT.

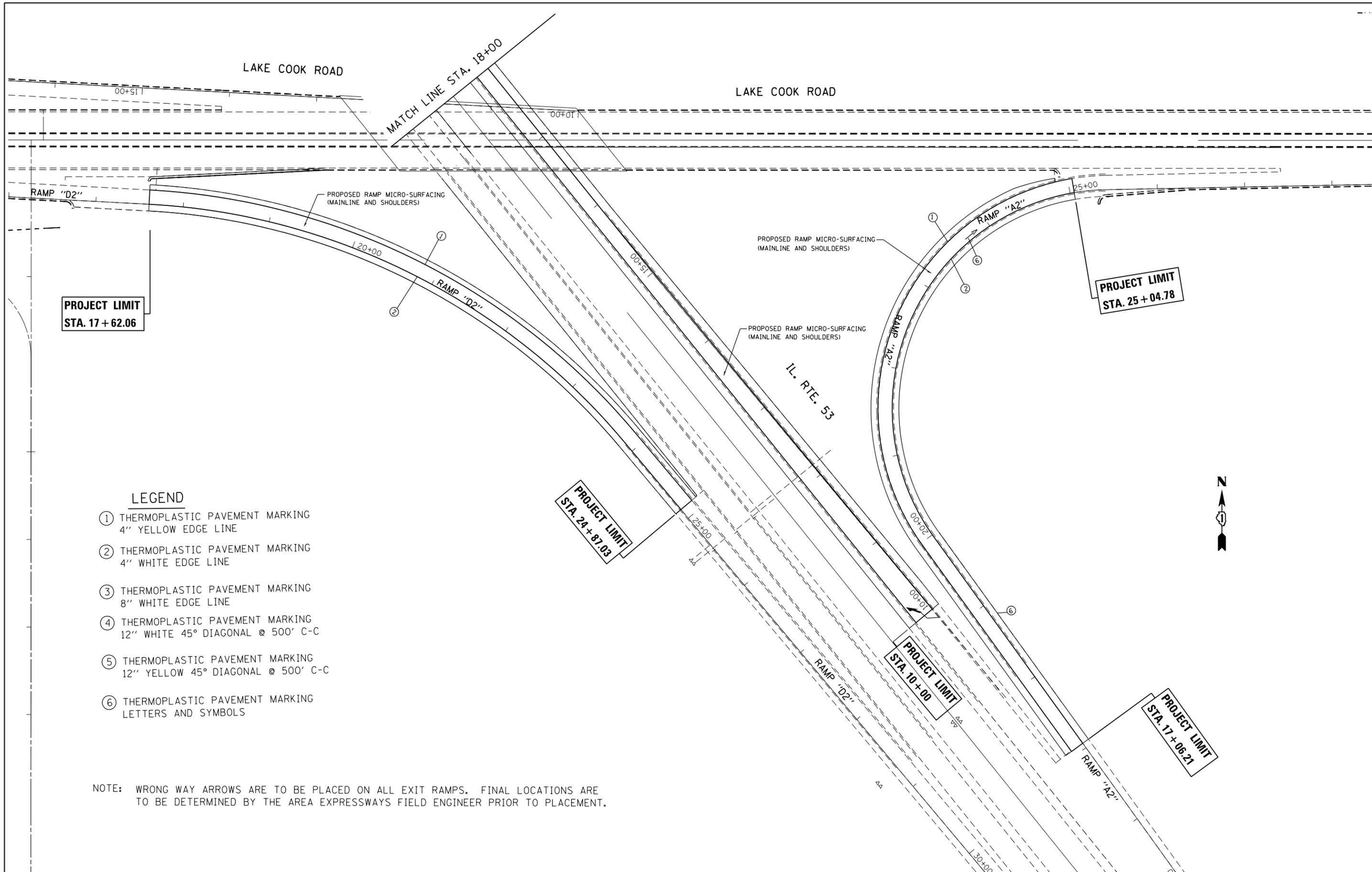
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Default	PLOT DATE = 5/5/2016	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ROADWAY AND PAVEMENT MARKING PLANS  
LOC 2: IL 53 AT LAKE COOK RD (RAMPS)**

SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2016-00RS	COOK & LAKE	22	11
CONTRACT NO. 62C05			ILLINOIS FED. AID PROJECT	



**LEGEND**

- ① THERMOPLASTIC PAVEMENT MARKING  
4" YELLOW EDGE LINE
- ② THERMOPLASTIC PAVEMENT MARKING  
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LETTERS AND SYMBOLS

NOTE: WRONG WAY ARROWS ARE TO BE PLACED ON ALL EXIT RAMPS. FINAL LOCATIONS ARE TO BE DETERMINED BY THE AREA EXPRESSWAYS FIELD ENGINEER PRIOR TO PLACEMENT.

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Default	PLOT SCALE = 100.0000' / 1in.	DATE -	REVISED -
	PLOT DATE = 5/5/2016		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ROADWAY AND PAVEMENT MARKING PLANS  
LOC 2: IL 53 AT LAKE COOK RD (RAMPS)**

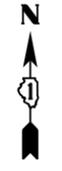
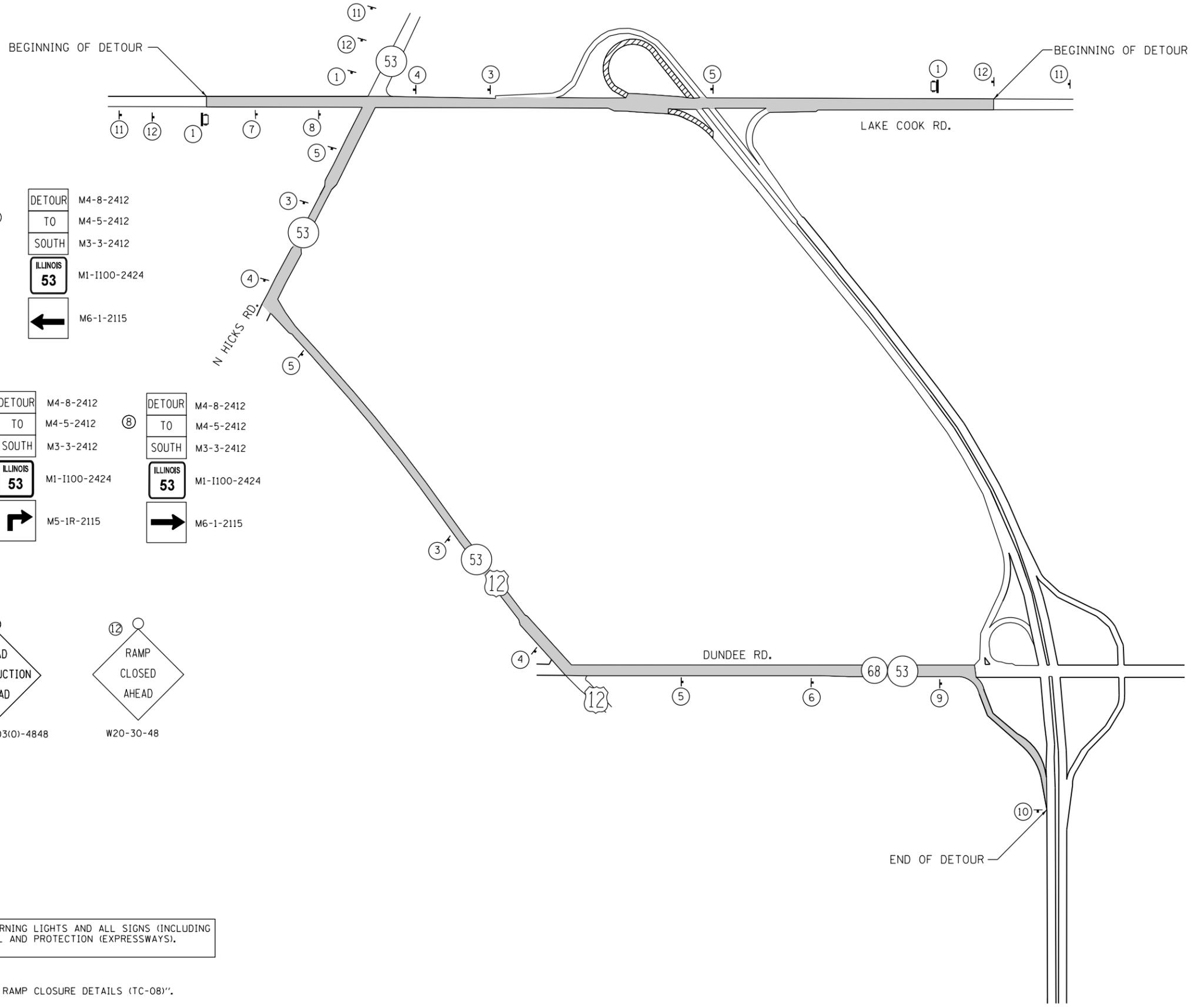
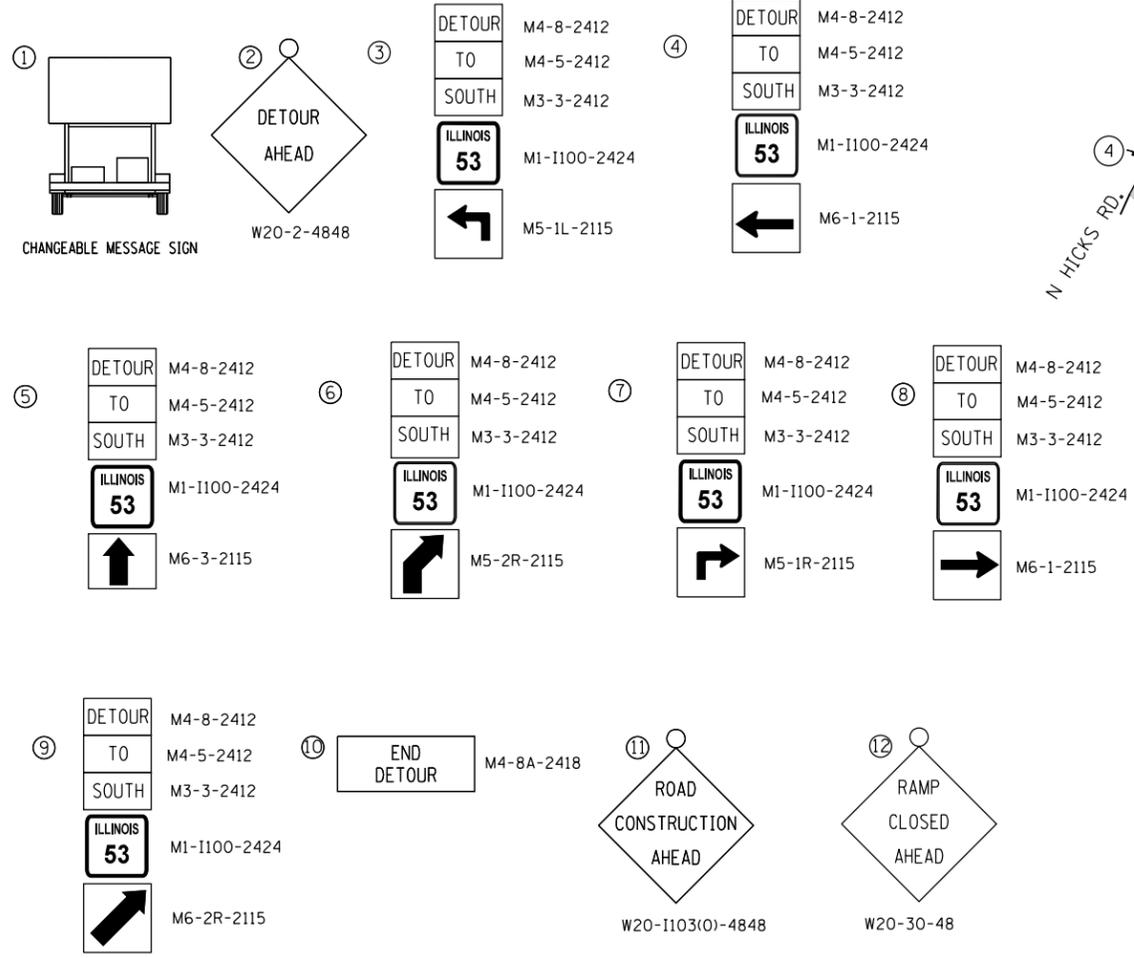
SCALE: 1" = 50'

SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2016-001RS	COOK & LAKE	22	12
CONTRACT NO. 62C05				
ILLINOIS FED. AID PROJECT				

**LEGEND**

- DETOUR ROUTE
- ▨ WORK ZONE
- † SIGN
- CHANGEABLE MESSAGE SIGN
- AMBER FLASHING LIGHT



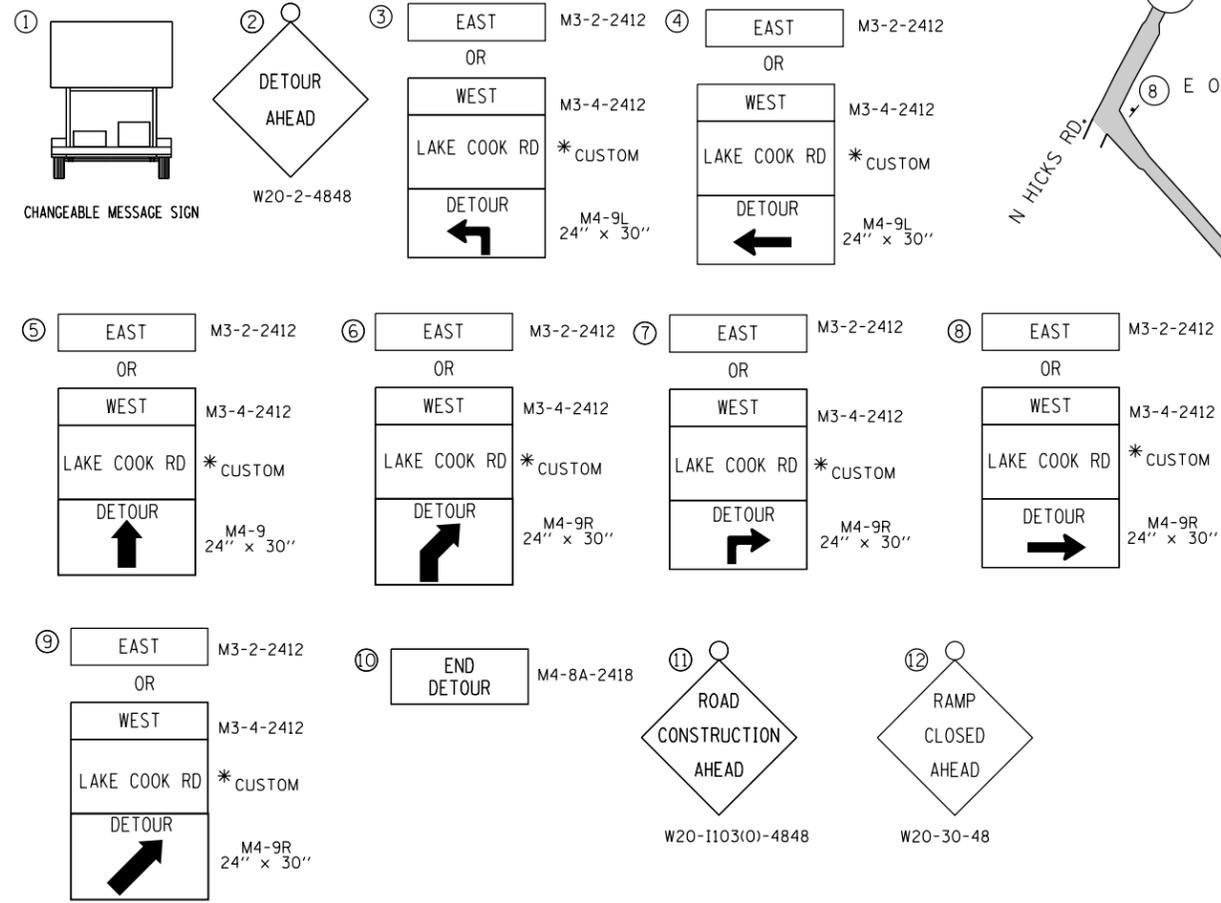
**NOTES**

1. THE COST OF SUPPLYING, ERECTING AND MAINTAINING BARRICADES, WARNING LIGHTS AND ALL SIGNS (INCLUDING DETOUR SIGNS) SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
2. RAMP CLOSURES SHALL BE IN ACCORDANCE WITH "ENTRANCE AND EXIT RAMP CLOSURE DETAILS (TC-08)".
3. THE CONTRACTOR WILL ONLY BE ALLOWED TO CLOSE ONE EXIT OR ENTRANCE RAMP AT A TIME.

FILE NAME =	USER NAME = valledolidv	DESIGNED -	REVISED - 4/27/2016	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PROPOSED DETOUR PLAN (LAKE COOK RD. RAMPS) FOR EB TO SB &amp; WB TO SB RAMPS</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default		CHECKED -	REVISED -			342	2010-103-R5	COOK & LAKE	22	13	
		DATE -	REVISED -			SCALE: SHEET OF SHEETS STA. TO STA.		CONTRACT NO. 62C05			
						ILLINOIS FED. AID PROJECT					

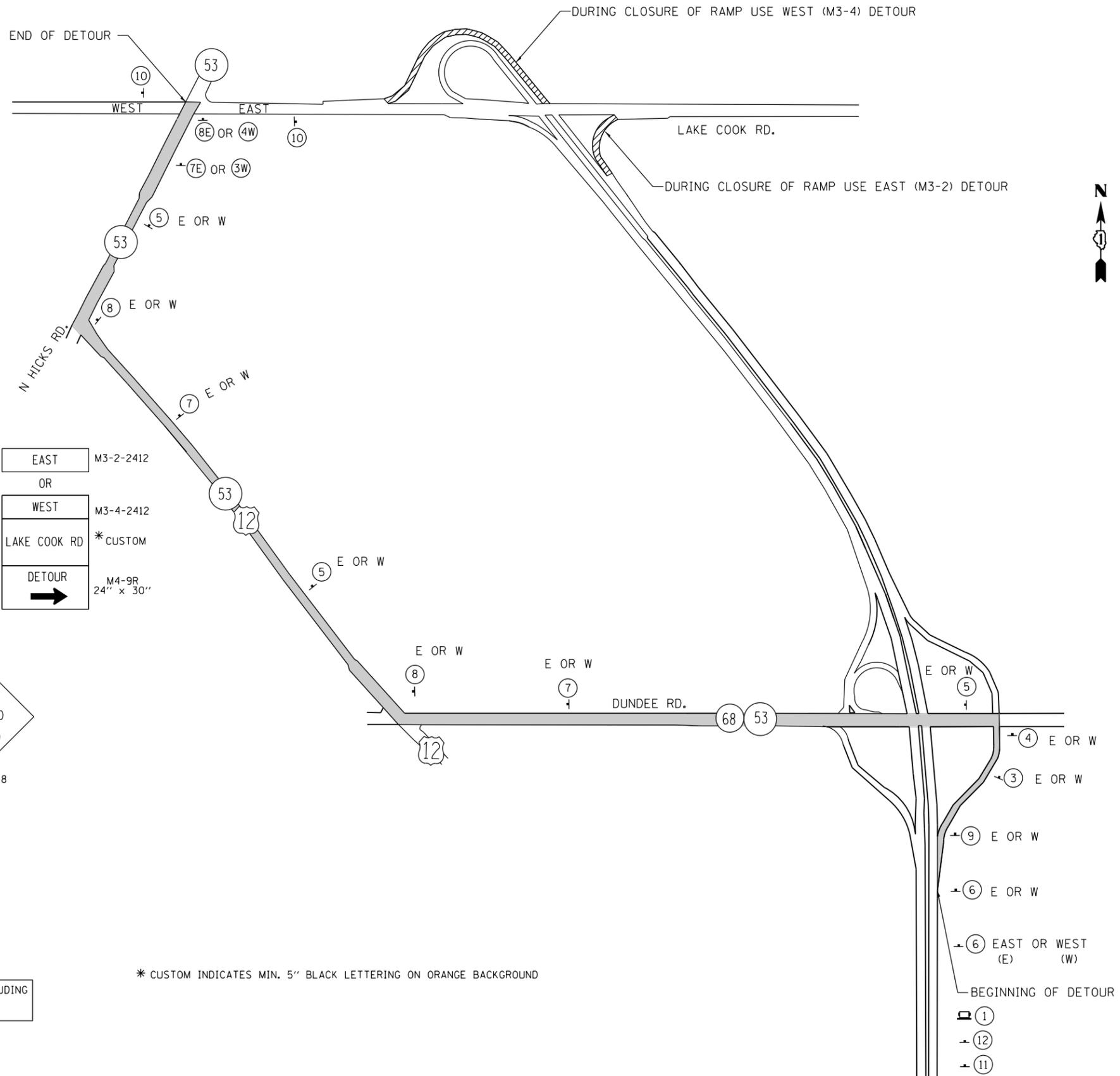
**LEGEND**

- DETOUR ROUTE
- WORK ZONE
- SIGN
- CHANGEABLE MESSAGE SIGN
- AMBER FLASHING LIGHT



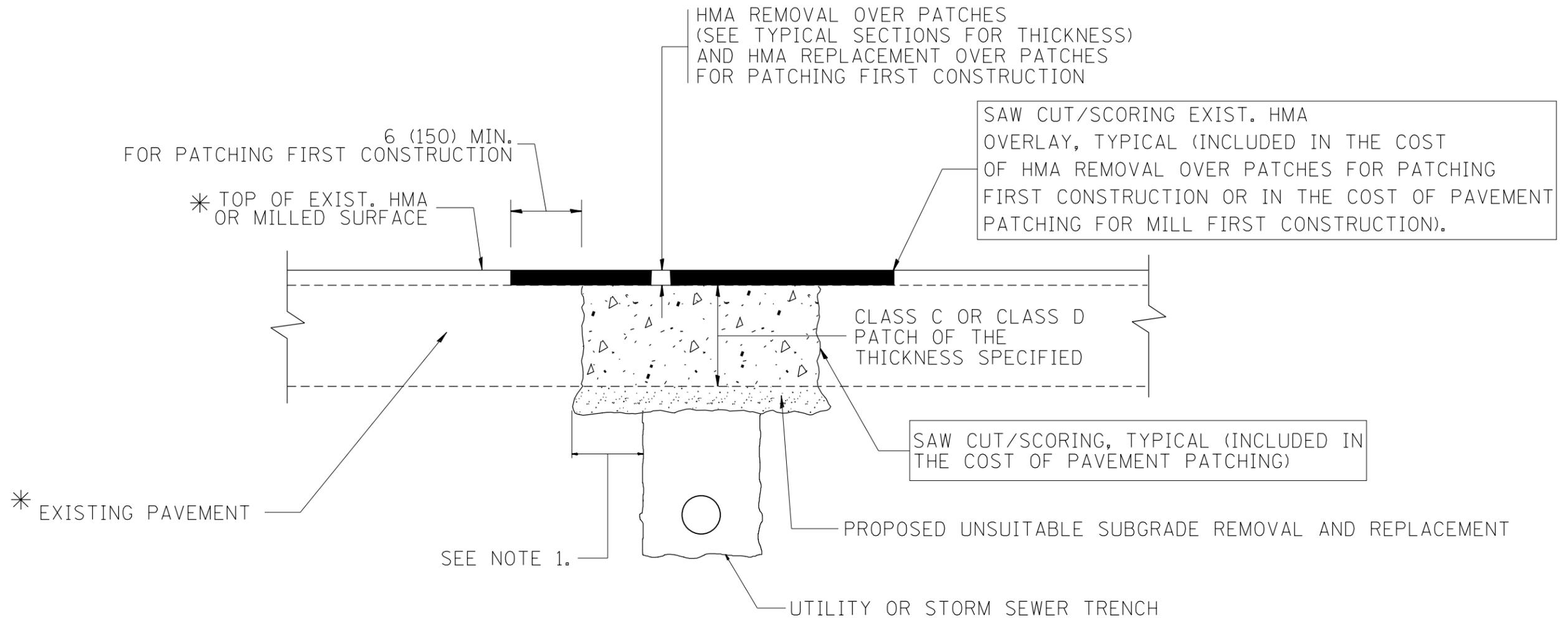
**NOTES**

1. THE COST OF SUPPLYING, ERECTING AND MAINTAINING BARRICADES, WARNING LIGHTS AND ALL SIGNS (INCLUDING DETOUR SIGNS) SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
2. RAMP CLOSURES SHALL BE IN ACCORDANCE WITH "ENTRANCE AND EXIT RAMP CLOSURE DETAILS (TC-08)".
3. THE CONTRACTOR WILL ONLY BE ALLOWED TO CLOSE ONE EXIT OR ENTRANCE RAMP AT A TIME.



\* CUSTOM INDICATES MIN. 5" BLACK LETTERING ON ORANGE BACKGROUND

FILE NAME =	USER NAME = valledolidv	DESIGNED -	REVISED - 4/27/2016	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PROPOSED DETOUR PLAN (LAKE COOK RD. RAMPS) FOR NB TO EB &amp; NB TO WB RAMPS</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	Documents\IDOT Offices\District 1\Projects\DI24716\Design\DI24716-shd-plan.dgn	CHECKED -	REVISED -			342	2010-103-R5	COOK & LAKE	22	13A	
	PLOT SCALE = 100.0000' / 1"	DATE -	REVISED -			SCALE: SHEET OF SHEETS STA. TO STA.		CONTRACT NO. 62C05			
	PLOT DATE = 5/6/2016					ILLINOIS FED. AID PROJECT					



\* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

**NOTES:**

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

**SEQUENCE OF CONSTRUCTION (PATCHING FIRST)**

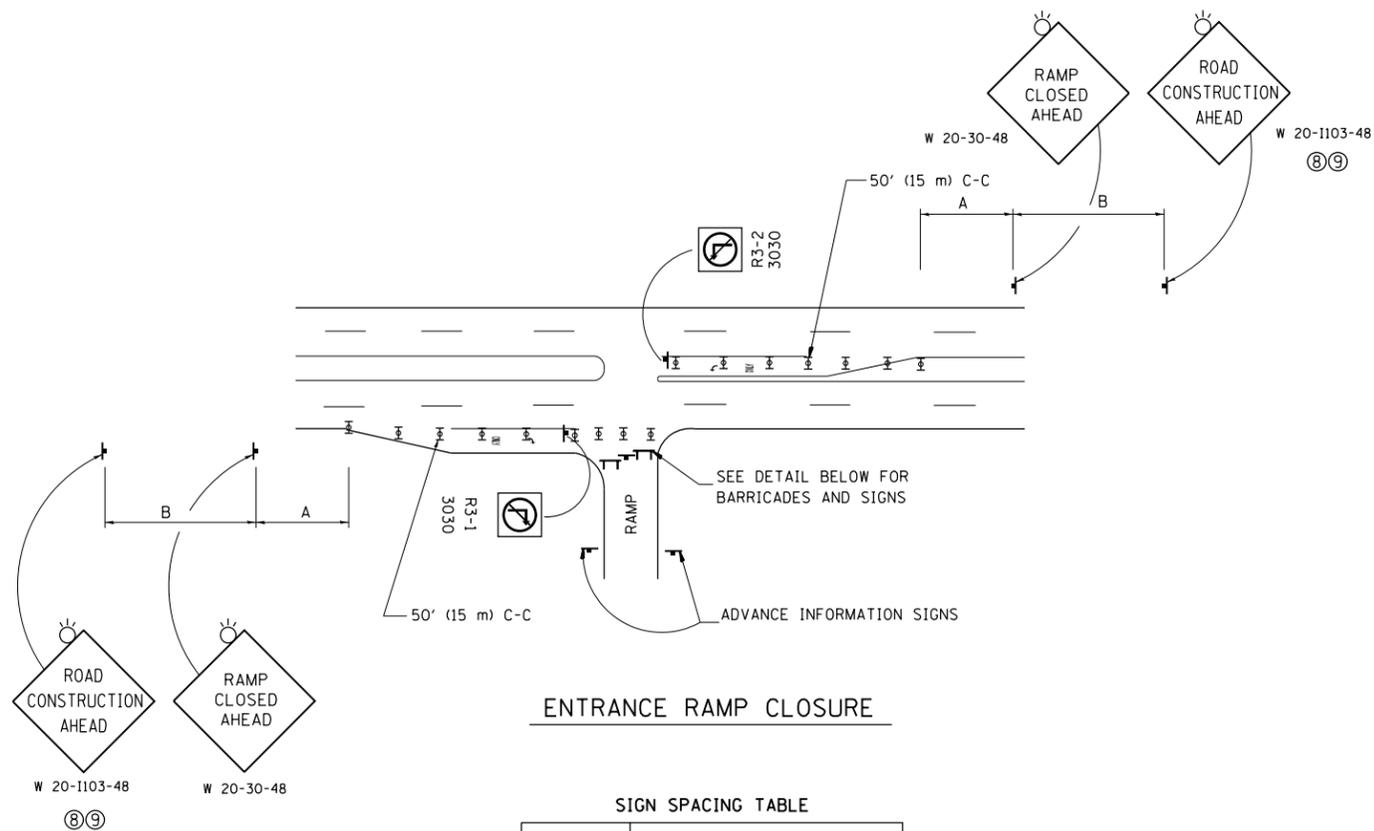
1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

**SEQUENCE OF CONSTRUCTION (MILLING FIRST)**

1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

FILE NAME =	USER NAME = valledolidv	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT</b>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\11084EBIDINTEG.illinois.gov\PWIDOT\Documents\DOT Offices\District 1\Projects\12477\BROWNS\Design\Diststd.dgn	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED - R. BORO 01-01-07					342	2010-103-R5	COOK & LAKE	22	14
PLOT DATE = 4/1/2016	DATE - 10-25-94	REVISED - R. BORO 09-04-07	REVISED - K. ENG 10-27-08		BD400-04 (BD-22)			CONTRACT NO. 62C05				
					SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT		

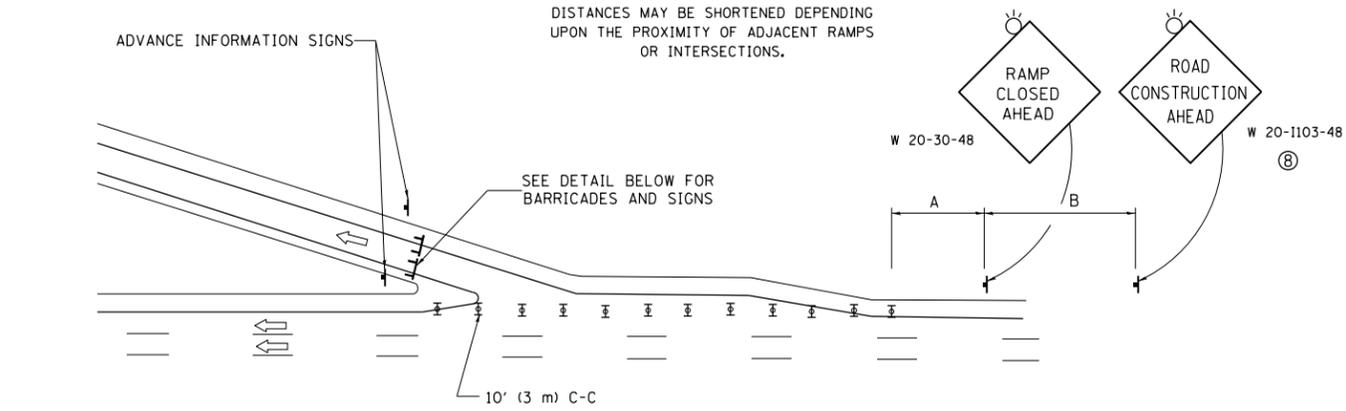


**ENTRANCE RAMP CLOSURE**

**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)

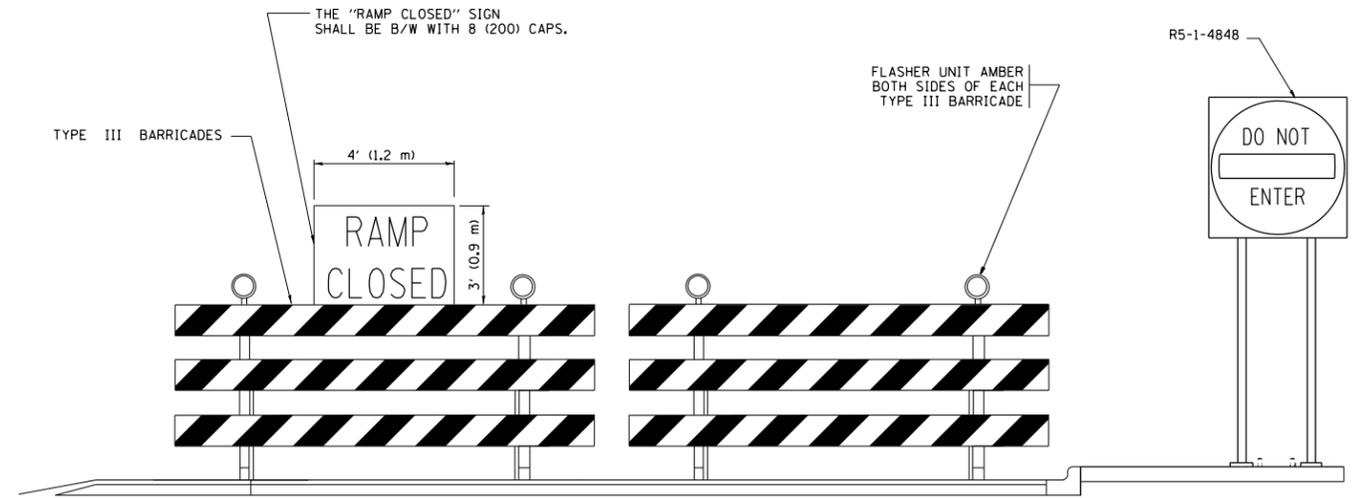
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



**EXIT RAMP CLOSURE**

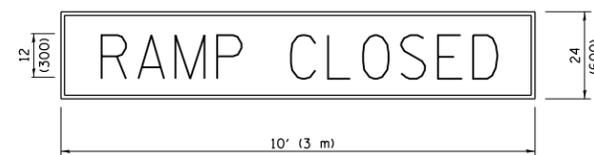
**SYMBOLS**

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



**DETAIL FOR REQUIRED BARRICADES & SIGNS**

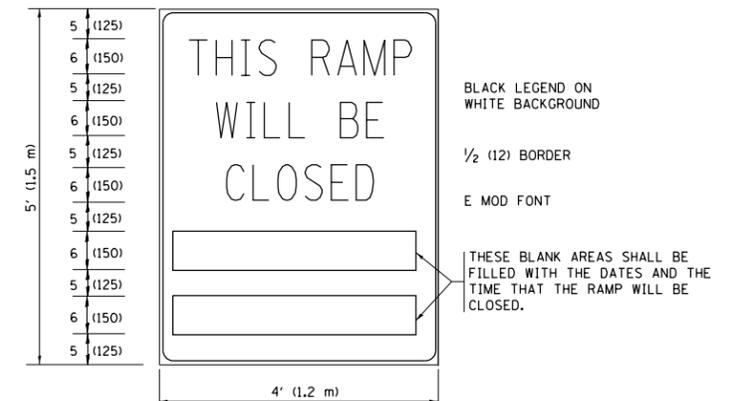
**RAMP CLOSURE ADVANCE WARNING SIGN**



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.

FILE NAME =	USER NAME = valledolidv	DESIGNED - DWS	REVISED - JAF 02-06
pw\l\084EBIDINTEG\illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\DI247\BID\Drawings\Design\Diststd.dgn		CHECKED -	REVISED - SPB 01-07
		DATE - 02-83	REVISED - SPB 12-09
			REVISED - MD 06-13

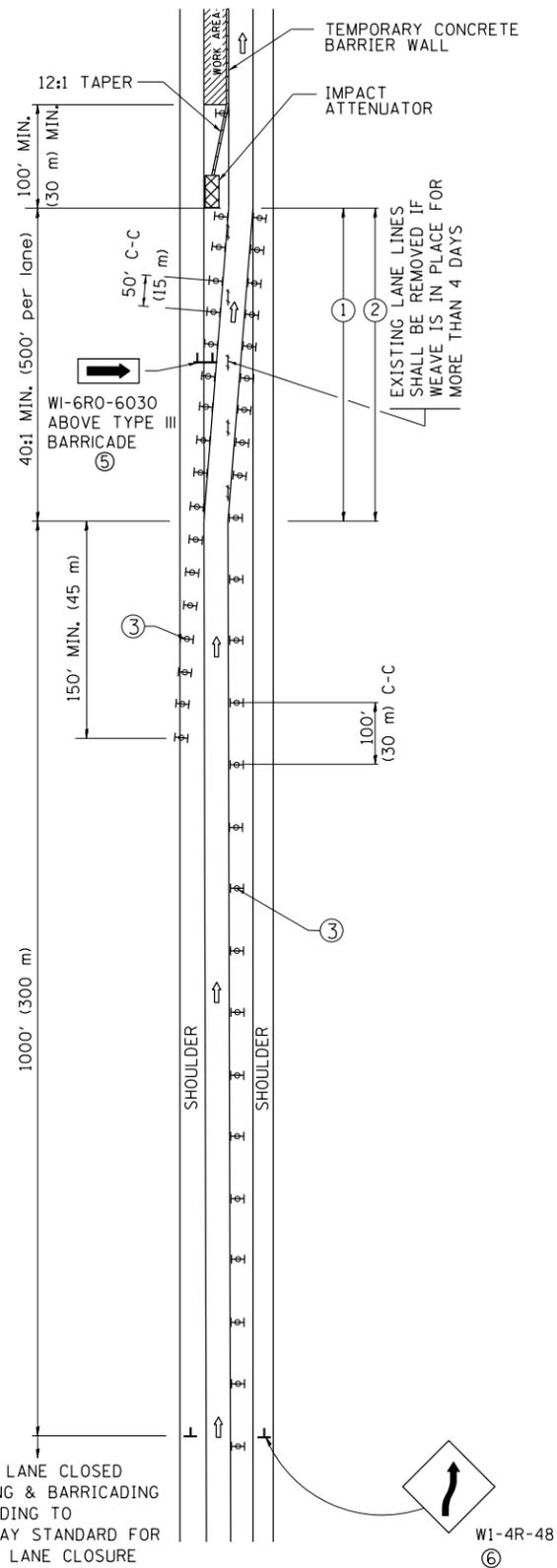
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ENTRANCE AND EXIT RAMP  
CLOSURE DETAILS**

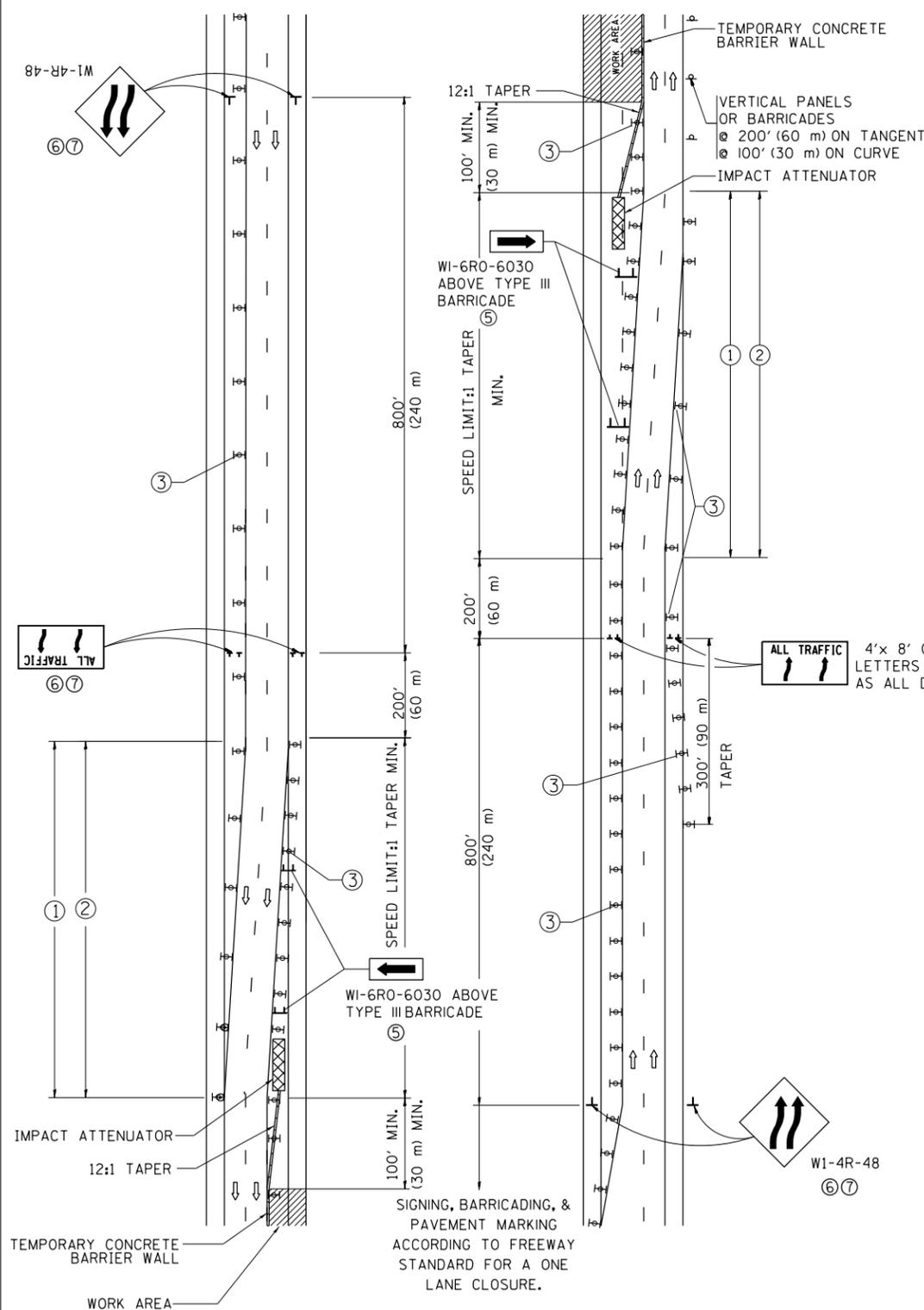
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2010-103-R5	COOK & LAKE	22	15
TC-08		CONTRACT NO. 62C05		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

# SINGLE LANE WEAVE



# MULTI-LANE WEAVE



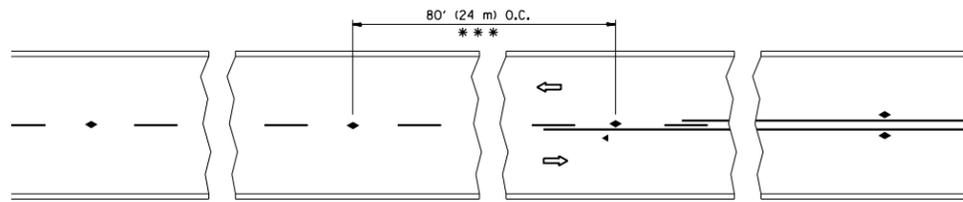
- ### GENERAL NOTES
- EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.
  - CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.
  - PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
  - ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
  - TYPE III BARRICADES MAY BE OMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.
  - WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.
  - THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

4'x 8' (1.2 m x 2.4 m); 1 (25) BORDER; 10 (250) CAPITAL LETTERS BACKGROUND SHEETING SHALL BE THE SAME AS ALL DIAMOND SHAPED CONSTRUCTION SIGNS.

- ### SYMBOLS
- DIRECTION OF TRAFFIC
  - WORK AREA
  - SIGN ON PORTABLE OR PERMANENT SUPPORT
  - TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
  - TEMPORARY CONCRETE BARRIER WALL
  - IMPACT ATTENUATOR
  - W1-4R-48
  - W24-1-48

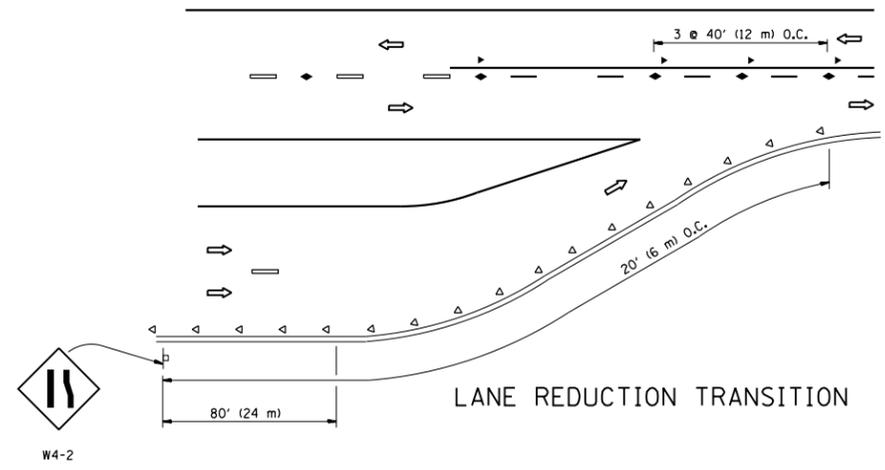
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME =	USER NAME = valledolidv	DESIGNED - DWS	REVISED - JAF 02-06	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE &amp; MULTI-LANE WEAVE</b>			F.A. RTE. = 342	SECTION = 2010-103-RS	COUNTY = COOK & LAKE	TOTAL SHEETS = 22	SHEET NO. = 16
pw:\1\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\DI247\Drawings\Design\Diststd.dgn	PLOT SCALE = 100.0000' / 1" =	CHECKED -	REVISED - SPB 01-07		REVISED - SPB 12-09	SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	<b>TC-09</b>		<b>CONTRACT NO. 62C05</b>	
	PLOT DATE = 4/1/2016	DATE - 02-87	REVISED - MD 06-13							FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		

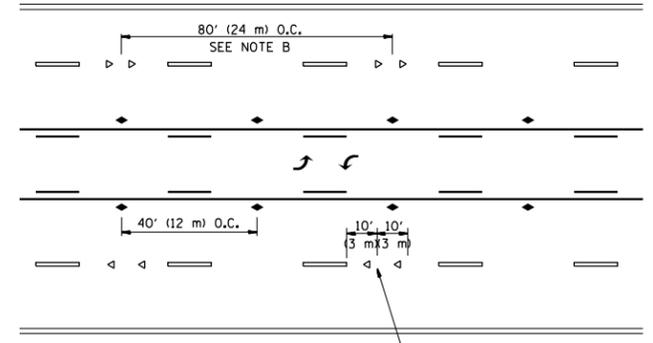


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

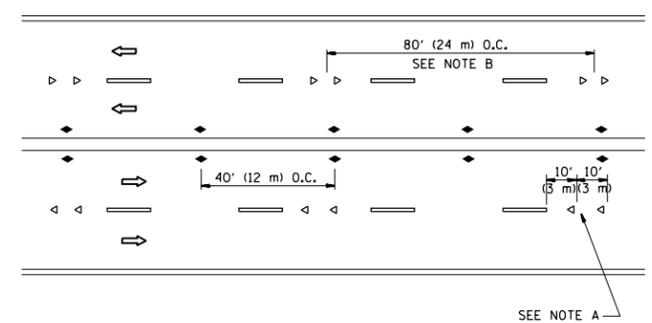
TWO-LANE/TWO-WAY



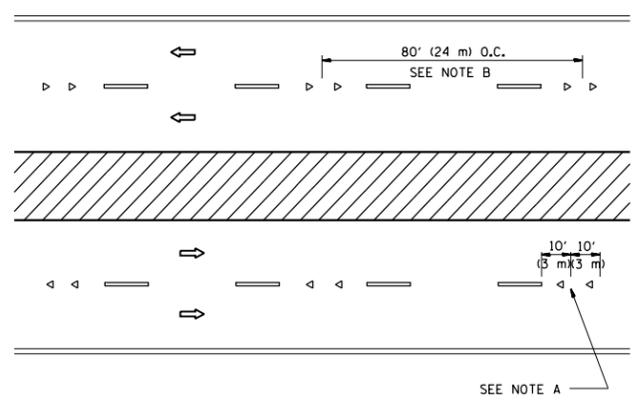
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

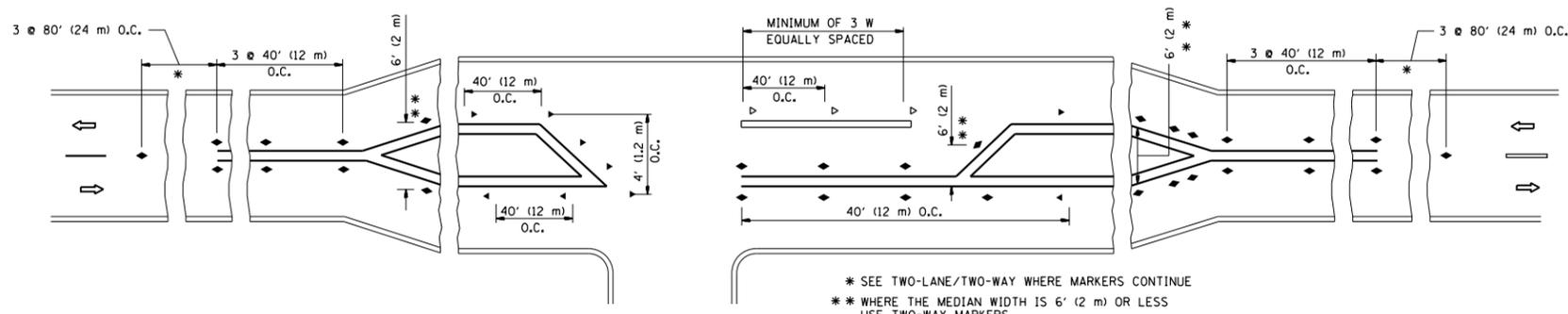
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.

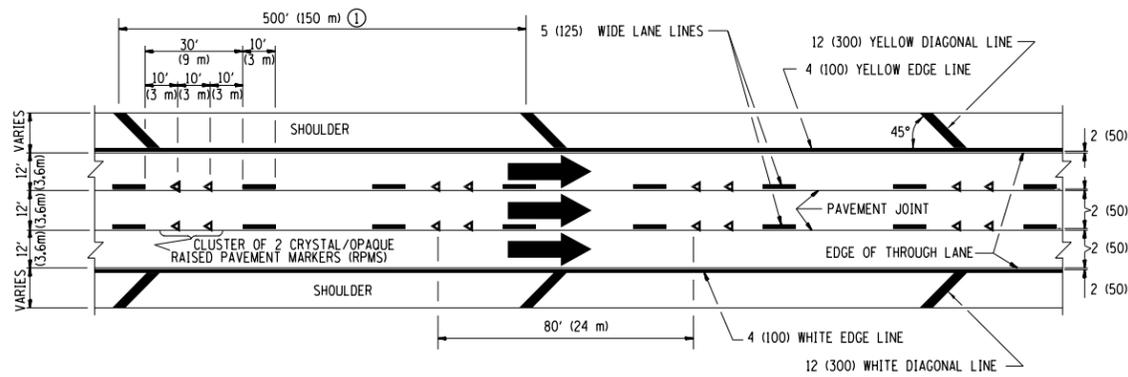


LEFT TURN

\* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE  
 \*\* WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

All dimensions are in inches (millimeters) unless otherwise shown.

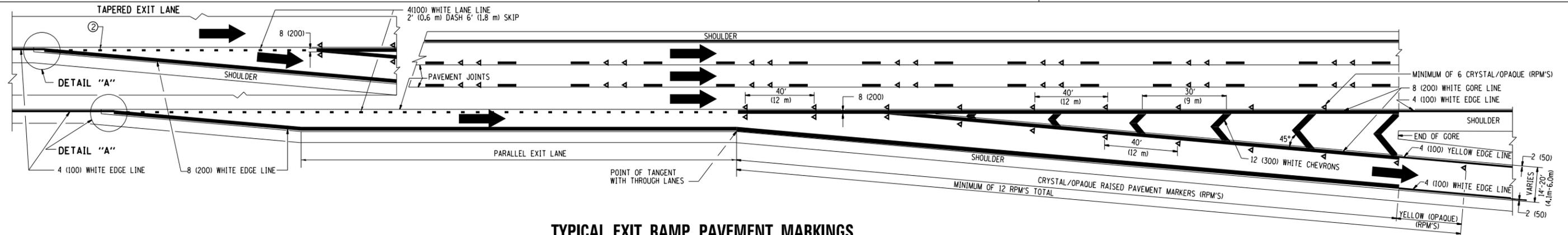
FILE NAME =	USER NAME = valledolidv	DESIGNED -	REVISED - T. RAMMACHER 09-19-94	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)</b>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\DI247\Drawings\Design\Diststd.dgn	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED - T. RAMMACHER 03-12-99					342	2010-103-RS	COOK & LAKE	22	17	
PLOT DATE = 4/1/2016	DATE -	REVISED - T. RAMMACHER 01-06-00	REVISED - C. JUCIUS 09-09-09		<b>TC-11</b>			<b>CONTRACT NO. 62C05</b>					
					SCALE: NONE			SHEET NO. 1 OF 1 SHEETS			STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



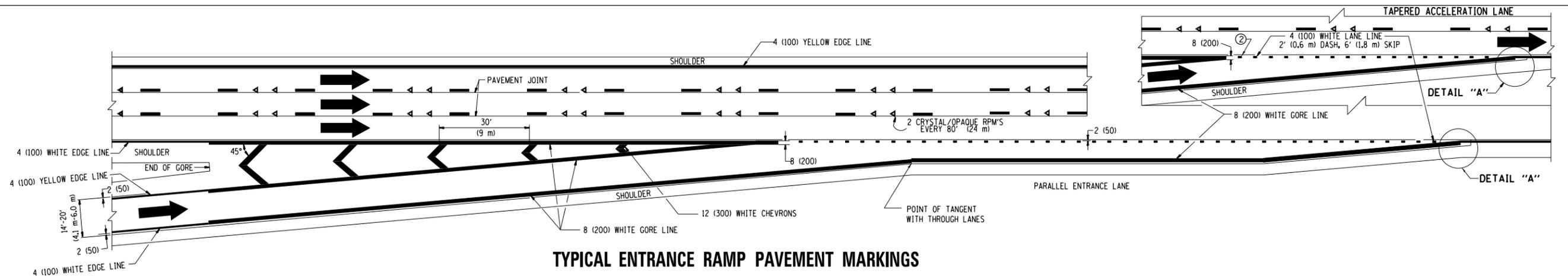
**TYPICAL EDGE LINES & LANE LINES**

**PAVEMENT MARKING MATERIALS**

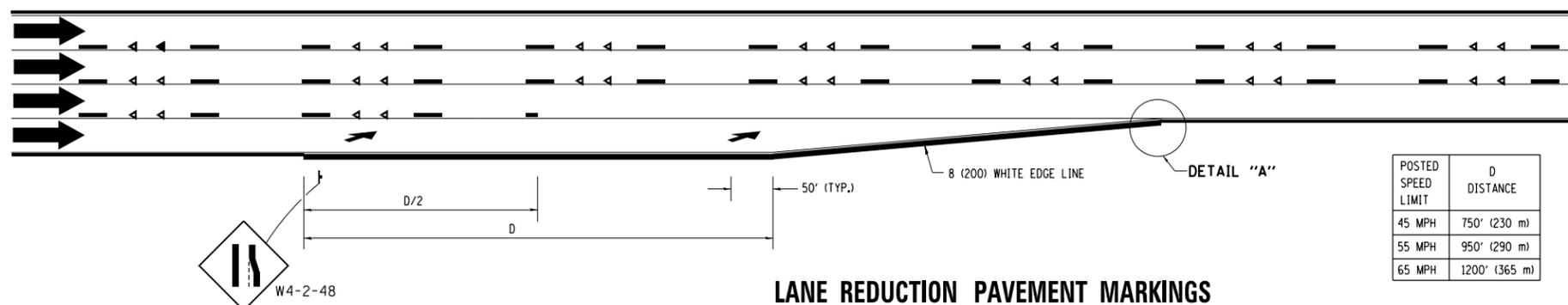
1. THERMO PLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR THE EDGE LINES, GORE LINES, AND DIAGONAL LINES ON BITUMINOUS PAVEMENT ONLY.
2. PREFORMED PLASTIC TYPE B PAVEMENT MARKING LINE; INLAID OR GROOVED IN SHALL BE USED FOR ALL LANE LINES ON HMA PAVEMENT PROJECTS.
3. POLYUREA PAVEMENT MARKING SHALL BE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



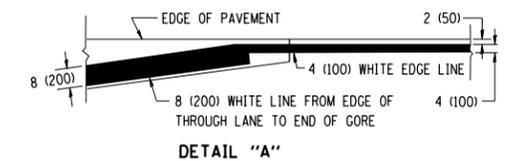
**TYPICAL EXIT RAMP PAVEMENT MARKINGS**



**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.

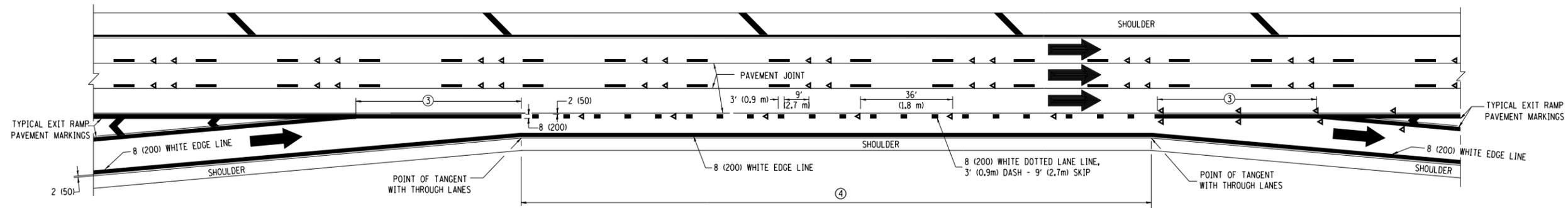
FILE NAME =	USER NAME = valledolidv	DESIGNED - D.W.S.	REVISED - J.A.F. 02-06
pw:\11\084EBIDINTEG\illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\DI247\Drawings\Design\Diststd.dgn		CHECKED -	REVISED - S.P.B. 01-07
		DATE - 01-90	REVISED - S.P.B. 01-10
			REVISED - M.D. 05-13

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

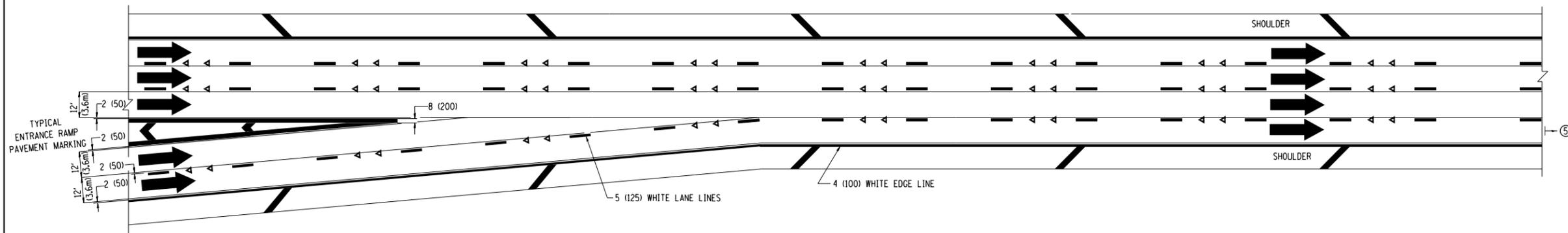
POSTED SPEED LIMIT	D DISTANCE
45 MPH	750' (230 m)
55 MPH	950' (290 m)
65 MPH	1200' (365 m)

<b>MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS</b>	
SCALE: NONE	SHEET NO. 1 OF 2 SHEETS
STA.	TO STA.

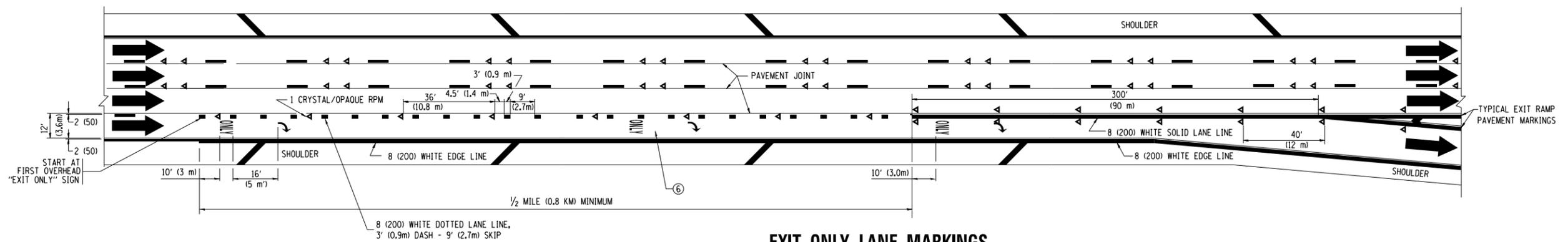
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2010-103-RS	COOK & LAKE	22	18
<b>TC-12</b>		<b>CONTRACT NO. 62C05</b>		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



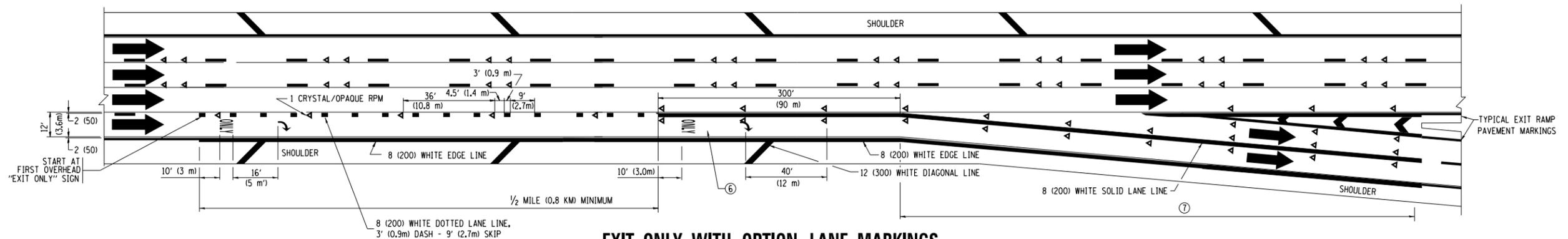
**AUXILIARY LANE MARKINGS**



**TWO LANE ENTRANCE RAMP WITH MERGE MARKINGS**



**EXIT ONLY LANE MARKINGS**



**EXIT ONLY WITH OPTION LANE MARKINGS**

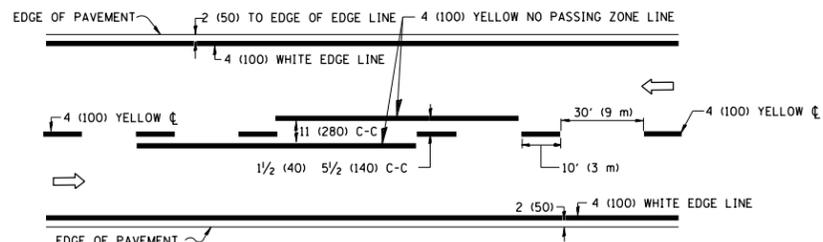
- NOTES**
- ③ OMIT WHEN LENGTH OF AUXILIARY LANE IS LESS THAN 500' (150 m).
  - ④ 8-INCH WIDE DOTTED LANE LINE MARKINGS SHALL BE USED WHEN THE LENGTH OF THE AUXILIARY LANE IS 2 MILES OR LESS.
  - ⑤ FOR TWO-LANE ENTRANCE RAMP, IF RIGHT LANE ENDS, USE TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS.
  - ⑥ ONLY 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.

FILE NAME =	USER NAME = valledolidv	DESIGNED - D.W.S.	REVISED - D.W.S. 07-96
p:\11\084EBIDINTEG\illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\DI247\Drawings\Design\Diststd.dgn		CHECKED -	REVISED - J.A.F. 02-06
		DATE - 01-90	REVISED - S.P.B. 01-07
			REVISED - S.P.B. 01-10

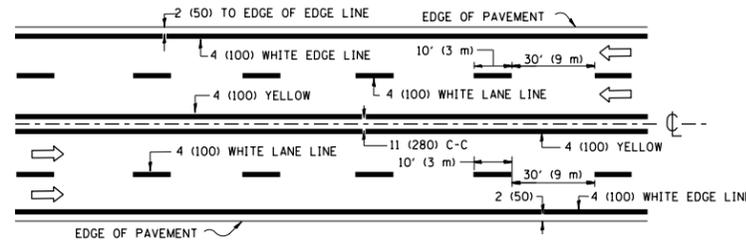
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

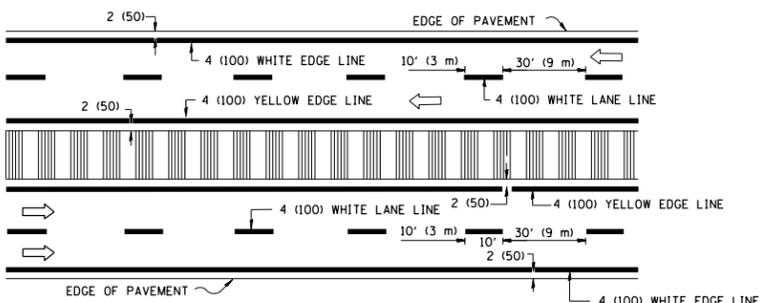
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2010-103-RS	COOK & LAKE	22	19
TC-12		CONTRACT NO. 62C05		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**2-LANE ROADWAY**

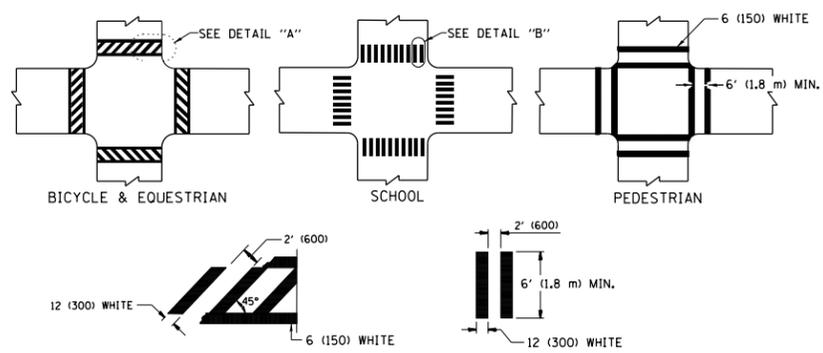


**MULTI-LANE UNDIVIDED**



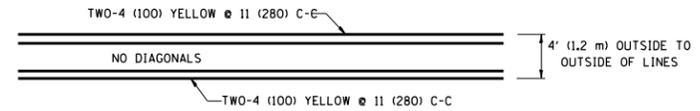
**MULTI-LANE DIVIDED WITH MEDIAN**

**TYPICAL LANE AND EDGE LINE MARKING**

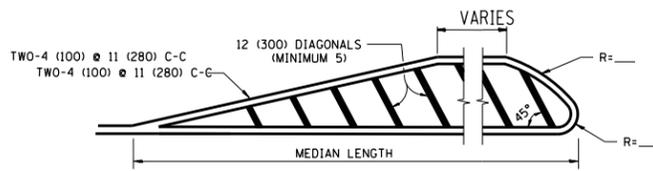


**TYPICAL CROSSWALK MARKING**

\* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES

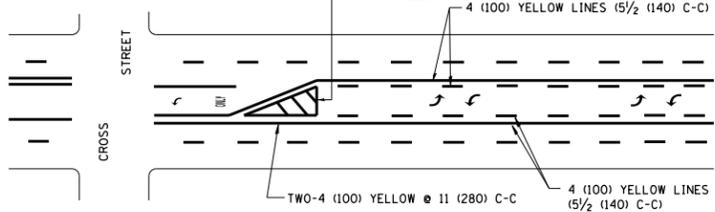


**4' (1.2 m) WIDE MEDIANS ONLY**

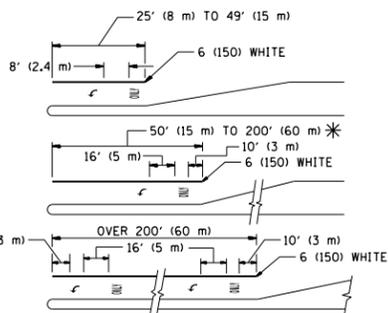


**MEDIANS OVER 4' (1.2 m) WIDE**

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))  
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)  
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

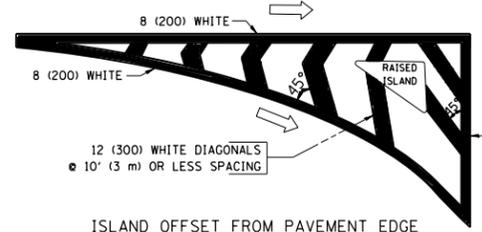


**MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING**

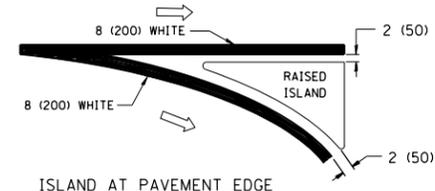


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)  
\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

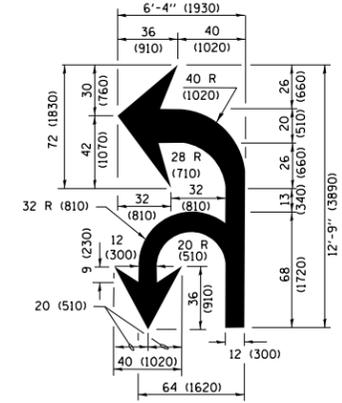
**TYPICAL LEFT (OR RIGHT) TURN LANE TYPICAL TURN LANE MARKING**



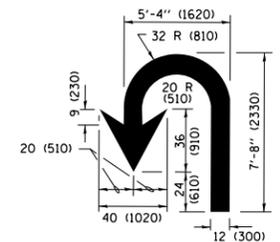
**ISLAND OFFSET FROM PAVEMENT EDGE**



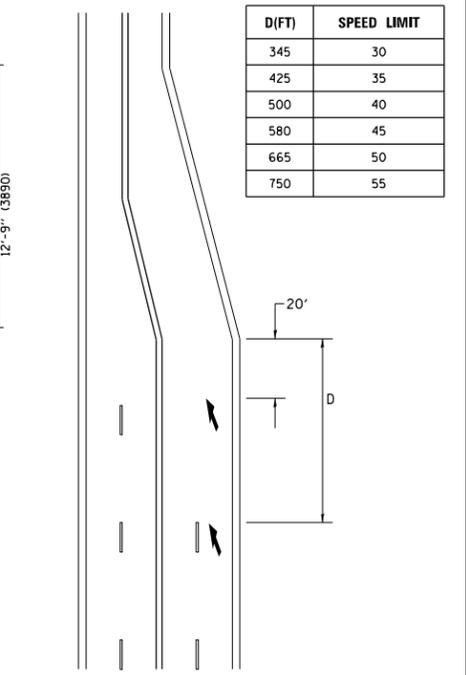
**ISLAND AT PAVEMENT EDGE TYPICAL ISLAND MARKING**



**COMBINATION LEFT AND U-TURN**



**U-TURN**



**LANE REDUCTION TRANSITION**

\* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE.
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = valledolidv	DESIGNED - EVERS	REVISED - T. RAMMACHER 10-27-94
pw\1\084EBIDINTEG\illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\DI24\BROWN\data\Design\Diststd.dgn		CHECKED -	REVISED - C. JUCIUS 09-09-09
Default	PLOT SCALE = 100.0000' / in.	DATE - 03-19-90	REVISED - C. JUCIUS 07-01-13
	PLOT DATE = 4/1/2016		REVISED - C. JUCIUS 12-21-15

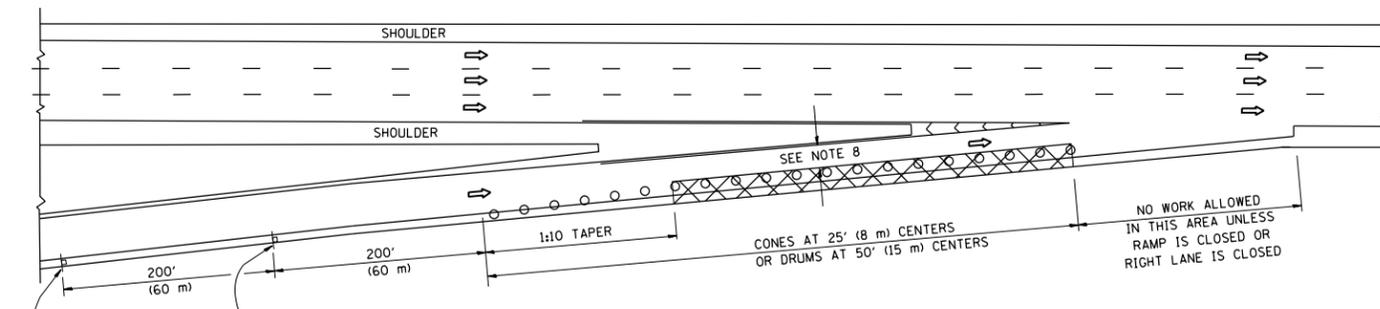
**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE TYPICAL PAVEMENT MARKINGS**

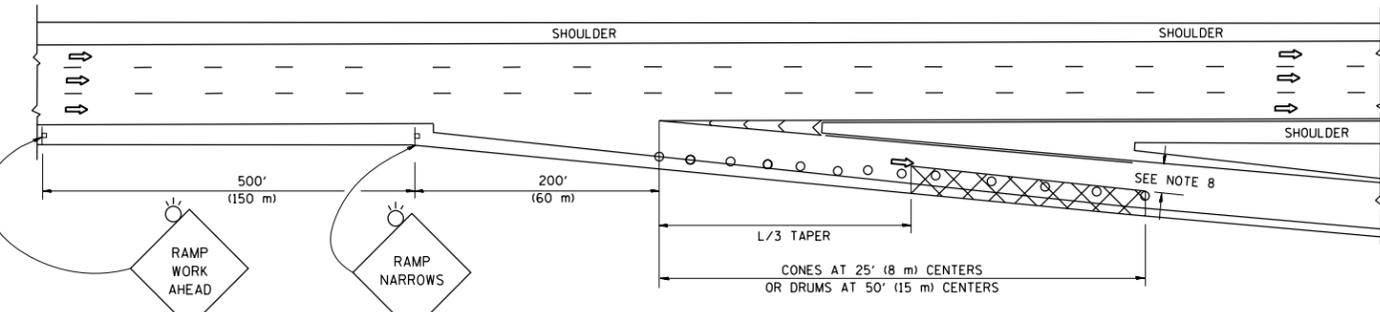
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2010-103-RS	COOK & LAKE	22	20
<b>TC-13</b>		<b>CONTRACT NO. 62C05</b>		
ILLINOIS FED. AID PROJECT				

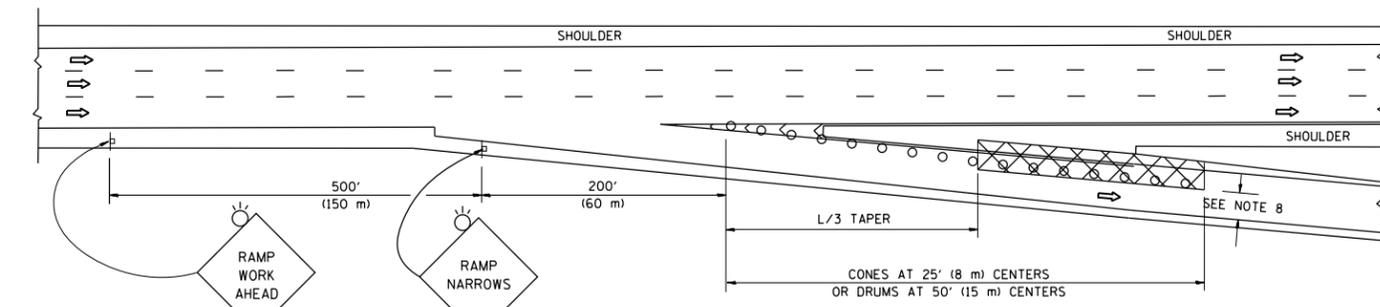
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

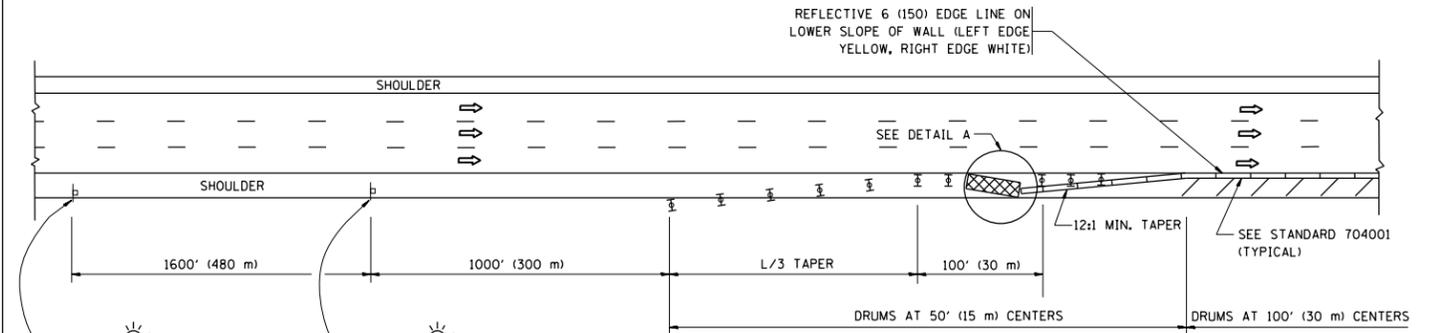
- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

GENERAL NOTES

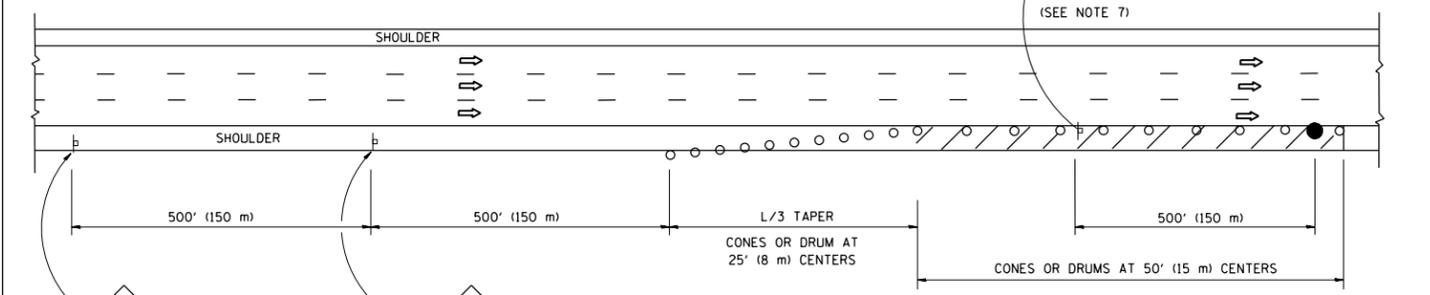
1. THE "L" DISTANCE EQUALS:
 

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

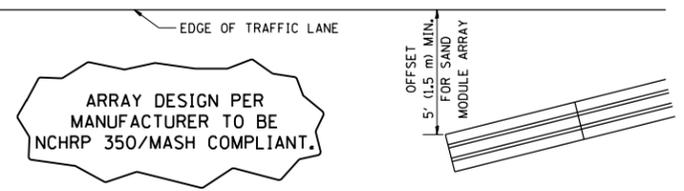


PERMANENT SHOULDER CLOSURE



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.



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

5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
  - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
  - b. THE WORK AVTIVITY REQUIRES FREQUENT ENCR OACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
8. 12' MIN. WIDTH TANGENT SECTION  
16' MIN. WIDTH CURVE SECTION.

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

FILE NAME =	USER NAME = valledolidv	DESIGNED -	REVISED - J.A.F. 12-06	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES</b>	F.A. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
			REVISED - S.P.B. 01-07			342	2010-103-RS	COOK & LAKE	22	21	
			REVISED - S.P.B. 12-09			<b>TC-17</b>					
			REVISED - M.D. 06-13			CONTRACT NO. 62C05					
						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

**ROUTE MARKERS**

-  FOR U.S. ROUTES  
M1-40-2424
-  FOR ILLINOIS ROUTES  
M1-50-2424
-  R.R., UNMARKED ROUTES  
SPECIAL 24" x 18" VARIABLE  
4" BLACK LETTERS ON WHITE  
REFLECTIVE BACKGROUND

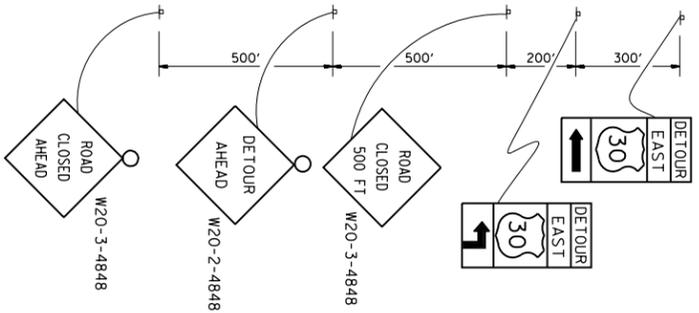
**ARROWS SIGNS**

-  M5-1L-2115
-  M5-1R-2115
-  M6-1-2115
-  M6-1-2115
-  M6-3-2115

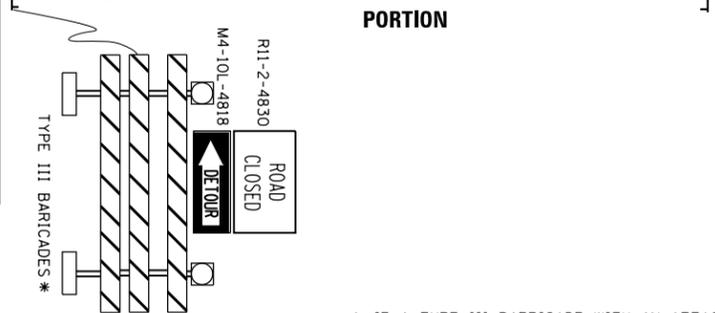
**CARDINAL DIRECTION & DETOUR SIGNS**

-  NORTH M3-1-2412
-  EAST M3-2-2412
-  SOUTH M3-3-2412
-  WEST M3-4-2412
-  DETOUR M4-8-2412

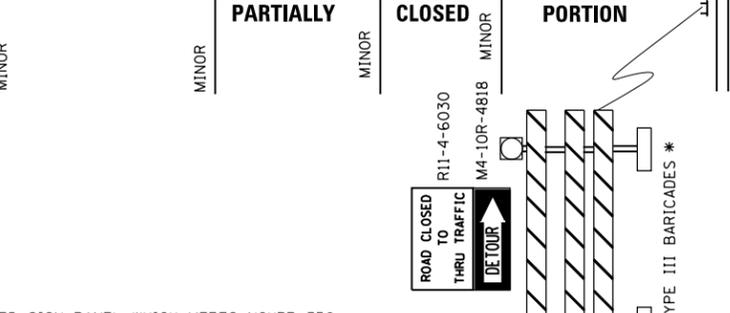
**STATE ROUTE**



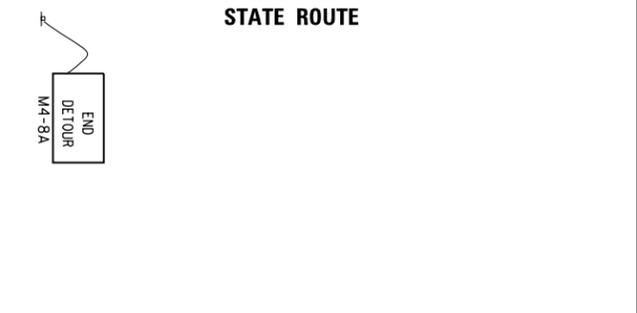
**COMPLETELY CLOSED PORTION**



**PARTIALLY CLOSED PORTION**



**STATE ROUTE**



\* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

FILE NAME =	USER NAME = valledolidv	DESIGNED -	REVISED - 10-18-02
p:\1\084EBIDINTEG\illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\DI247\Browns\Design\Diststd.dgn		CHECKED -	REVISED - R. BORO 09-14-09
		DATE -	REVISED -
			REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>DETOUR SIGNING FOR CLOSING STATE HIGHWAYS</b>			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2010-103-R5	COOK & LAKE	22	22
<b>TC-21</b>		<b>CONTRACT NO. 62C05</b>		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				