


F.A.P. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	(8 & 9) RS-4	LAKE	31	3
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES

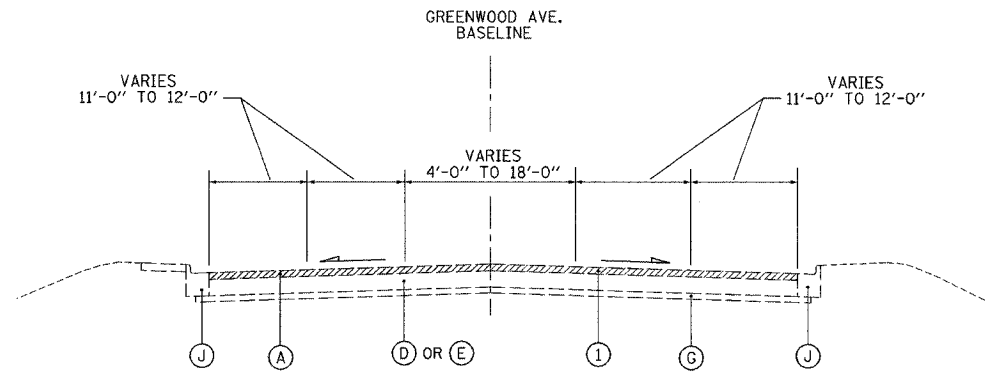
ENGLISH	PAY ITEM DESCRIPTION	UNIT	URBAN	
			TOTAL QUANTITY	1000 100% STATE
20200600	EXCAVATING AND GRADING EXISTING SHOULDERS	UNIT	278	278
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	107	107
40600300	AGGREGATE (PRIME COAT)	TON	514	514
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	26	26
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	7,192	7,192
40600895	CONSTRUCTING TEST STRIP	EACH	2	2
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	218	218
40600990	TEMPORARY RAMP	SQ YD	146	146
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	284	284
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	10,787	10,787
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	55,892	55,892
44001700	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	119	119
44201741	CLASS D PATCHES, TYPE II, 8 INCH	SQ YD	603	603
44201745	CLASS D PATCHES, TYPE III, 8 INCH	SQ YD	960	960
44201747	CLASS D PATCHES, TYPE IV, 8 INCH	SQ YD	1,443	1,443
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	563	563
48301000	PROTECTIVE COAT	SQ YD	40	40
60266600	VALVE BOXES TO BE ADJUSTED	EACH	1	1
60300310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	26	26
* 63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	375	375
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)	EACH	5	5
63200310	GUARDRAIL REMOVAL	FOOT	625	625
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4	4
67100100	MOBILIZATION	L SUM	1	1
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	1	1
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1	1
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1	1
70100805	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	1	1
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	60	60
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	12,555	12,555
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	437	437
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	67,013	67,013
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	987	987
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	9,201	9,201
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1,613	1,613
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	77	77
78003120	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 5"	FOOT	5,781	5,781
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	781	781
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	781	781
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	433	433
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	85	85
X4400100	PORTLAND CEMENT CONCRETE SURFACE REMOVAL (VARIABLE DEPTH)	SQ YD	285	285
X4422025	PARTIAL DEPTH REMOVAL 2"	SQ YD	2,535	2,535
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	874	874
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	94,083	94,083
70300230	TEMPORARY PAVEMENT MARKING - LINE 5"	FOOT	8,151	8,151
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	1,876	1,876
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	14,720	14,720
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	2,260	2,260
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	324	324

* SPECIALTY ITEMS

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION FAP 352 (IL 137) GREENWOOD AVE TO GENESEE ST. SUMMARY OF QUANTITIES DRAWN BY: WS CHECKED BY: PJ DATE: 9/14/06
NAME	DATE	
 GRAEF, ANHALT, SCHLOEMER & ASSOCIATES, INC. CHICAGO, ILLINOIS		

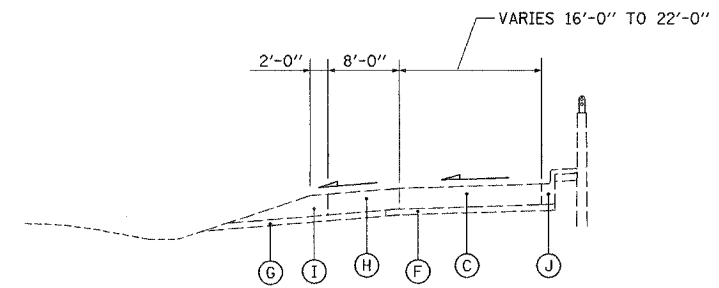
CONTRACT NO. 60B75

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	(8&9) RS-4	LAKE	31	4
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



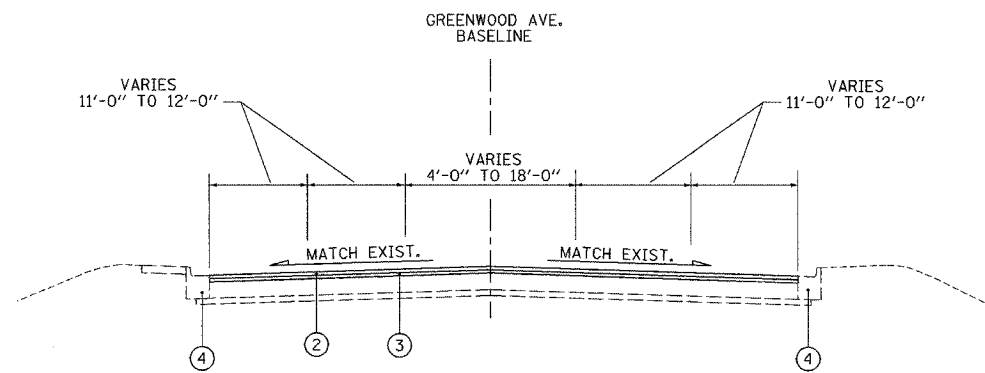
GREENWOOD AVENUE EXISTING TYPICAL SECTION

STA. 14+80 TO STA. 31+05±



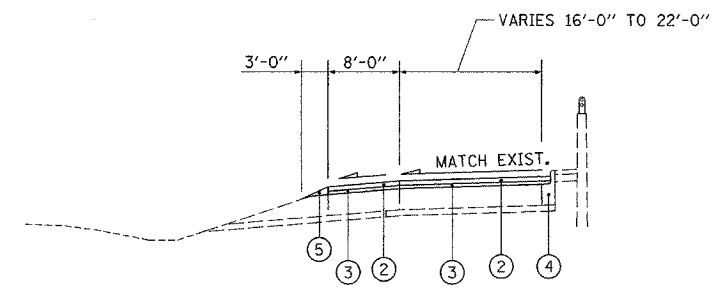
EXISTING TYPICAL RAMP SECTION

STA. 50+00± TO STA. 68+00±
STA. 103+50± TO STA. 126+00±



GREENWOOD AVENUE PROPOSED TYPICAL SECTION

STA. 14+80 TO STA. 31+05±



PROPOSED TYPICAL RAMP SECTION

STA. 50+00± TO STA. 68+00±
STA. 103+50± TO STA. 126+00±

EXISTING CONDITIONS:

- (A) HOT-MIX ASPHALT SURFACE AND BINDER COURSE, (3" & VARIES)
- (B) CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT, 8"
- (C) PORTLAND CEMENT CONCRETE PAVMENT, 10"
- (D) HOT-MIX ASPHALT BASE COURSE, (DEPTH VARIES)
- (E) PORTLAND CEMENT CONCRETE BASE COURSE
- (F) HOT-MIX ASPHALT SUB-BASE, 4"
- (G) SUB-BASE GRANULAR MATERIAL
- (H) HOT-MIX ASPHALT SHOULDERS
- (I) AGGREGATE SHOULDERS
- (J) COMBINATION CONCRETE CURB AND GUTTER
- (K) BARRIER CURB
- (L) RETAINING WALL

PROPOSED IMPROVEMENTS:

- (1) HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- (2) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, (1 1/2")
- (3) LEVELING BINDER (MACHINE METHOD), N70, (1")
- (4) COMBINATION CONCRETE CURB AND REMOVAL AND REPLACEMENT (AS DETERMINED BY THE ENGINEER)
- (5) AGGREGATE WEDGE SHOULDER, TYPE B

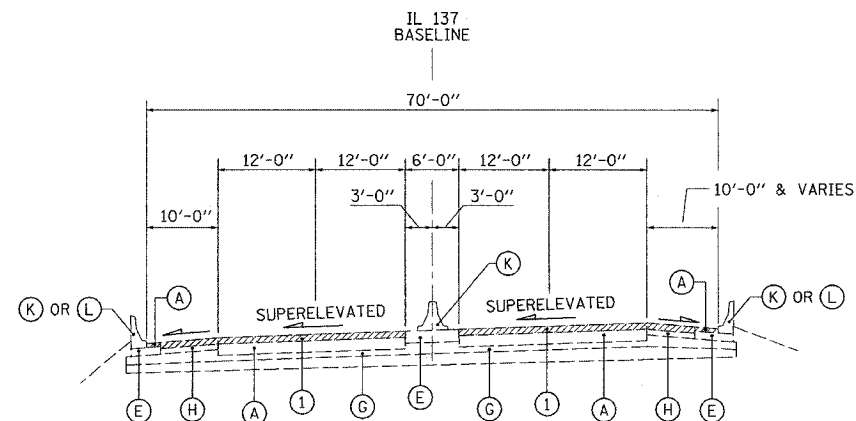
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAP 352 (IL 137)
GREENWOOD AVE TO GENESEE ST.

TYPICAL SECTIONS

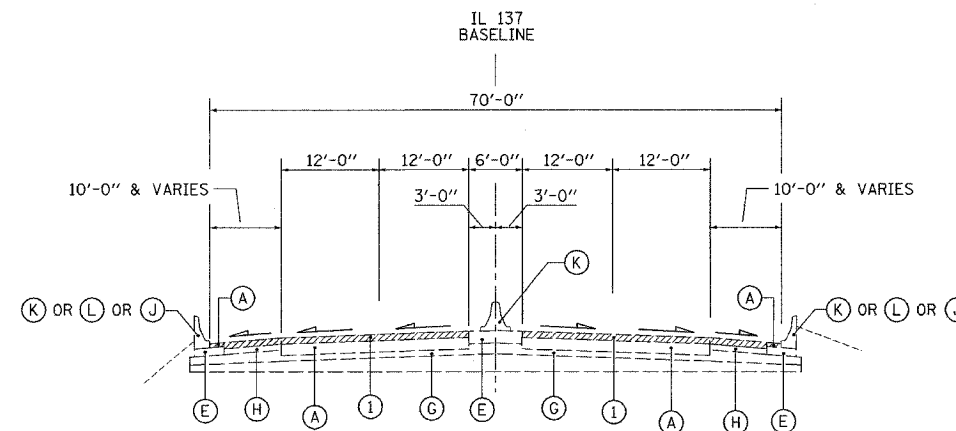
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DATE CHECKED BY:

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	(8&9) RS-4	LAKE	31	6
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



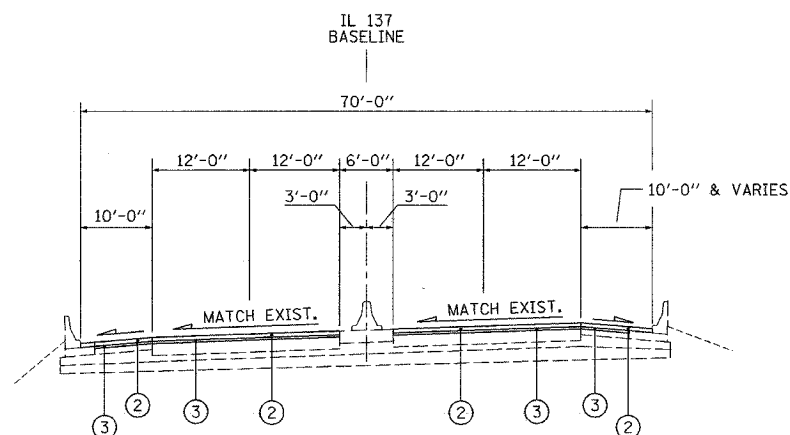
IL 137 EXISTING TYPICAL SECTION

STA. 126+28± TO STA. 137+08±
STA. 144+30± TO STA. 150+12± (REVERSED SUPERELEVATION)



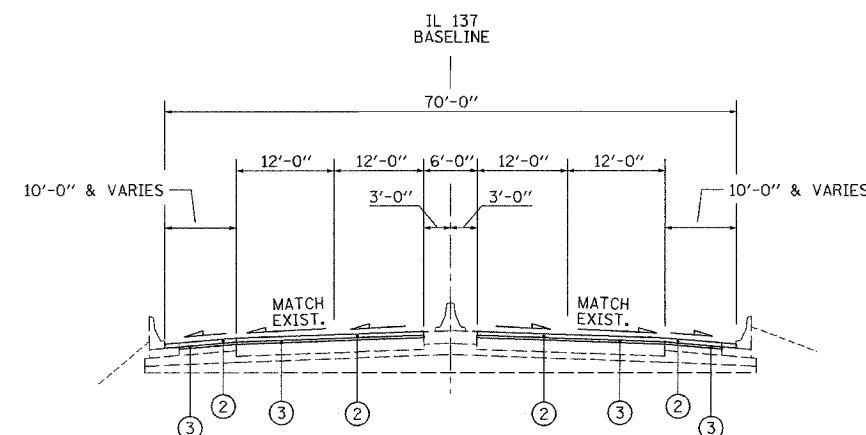
IL 137 EXISTING TYPICAL SECTION

STA. 137+08± TO STA. 144+30±
STA. 150+87± TO STA. 169+44±



IL 137 PROPOSED TYPICAL SECTION

STA. 126+28± TO STA. 137+08±
STA. 144+30± TO STA. 150+12± (REVERSED SUPERELEVATION)



IL 137 PROPOSED TYPICAL SECTION

STA. 137+08± TO STA. 144+30±
STA. 150+87± TO STA. 169+44±

EXISTING CONDITIONS:

- (A) HOT-MIX ASPHALT SURFACE AND BINDER COURSE, (3" & VARIES)
- (B) CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT, 8"
- (C) PORTLAND CEMENT CONCRETE PAVEMENT, 10"
- (D) HOT-MIX ASPHALT BASE COURSE, (DEPTH VARIES)
- (E) PORTLAND CEMENT CONCRETE BASE COURSE
- (F) HOT-MIX ASPHALT SUB-BASE, 4"
- (G) SUB-BASE GRANULAR MATERIAL
- (H) HOT-MIX ASPHALT SHOULDERS
- (I) AGGREGATE SHOULDERS
- (J) COMBINATION CONCRETE CURB AND GUTTER
- (K) BARRIER CURB
- (L) RETAINING WALL

PROPOSED IMPROVEMENTS:

- (1) HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- (2) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, (1 1/2")
- (3) LEVELING BINDER (MACHINE METHOD), N70, (1")
- (4) COMBINATION CONCRETE CURB AND REMOVAL AND REPLACEMENT (AS DETERMINED BY THE ENGINEER)
- (5) AGGREGATE WEDGE SHOULDER, TYPE B

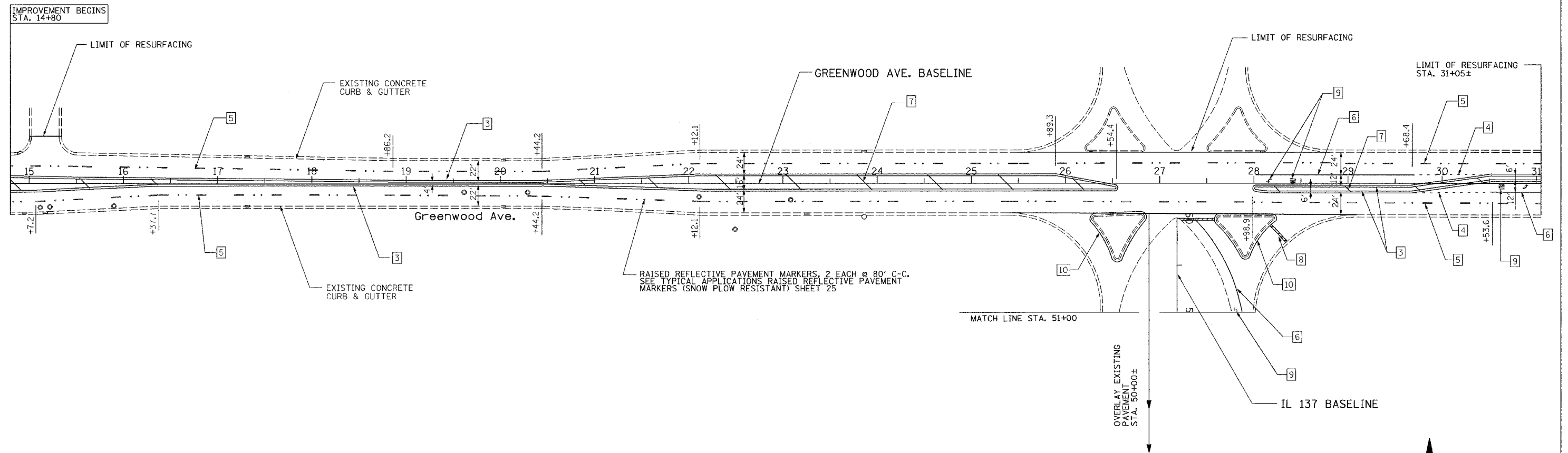
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAP 352 (IL 137)
GREENWOOD AVE TO GENESEE ST.

TYPICAL SECTIONS

SCALE: NOT TO SCALE
DATE
DRAWN BY: MAB
CHECKED BY:

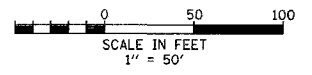
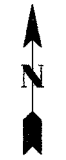
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	(8&9) RS-4	LAKE	31	8
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



RAISED REFLECTIVE PAVEMENT MARKERS, 2 EACH @ 80' C-C.
SEE TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT) SHEET 25

MATCH LINE STA. 51+00

OVERLAY EXISTING PAVEMENT STA. 50+00±



LEGEND

- | | |
|--|---|
| <ul style="list-style-type: none"> 1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID EDGE LINE) 2 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SKIP DASH - 10' DASH, 30' SKIP, 5.5' C-C) 3 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW SOLID LINE) 4 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE LANE LINE - 2' DASH, 6' SKIP) 5 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE LANE LINE - 10' DASH, 30' SKIP) | <ul style="list-style-type: none"> 6 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID LINE) 7 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONAL LINE) 8 THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP LINES) 9 THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (TYP.) 10 THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID LINE) |
|--|---|

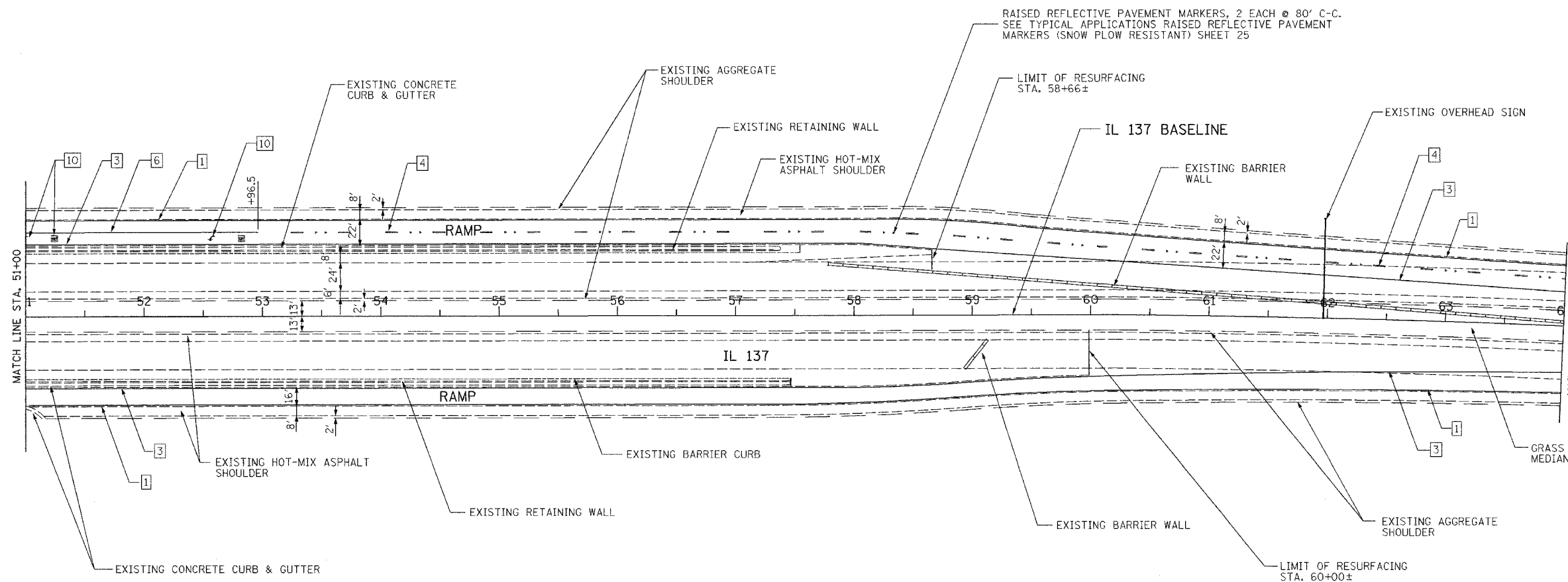
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 FAP 352 (IL 137)
 GREENWOOD AVE TO GENESEE ST.
ROADWAY AND PAVEMENT MARKING PLANS

SCALE: HORIZ. 1"=50' DRAWN BY
 DATE CHECKED BY

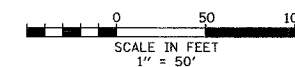
CONTRACT NO. 60B75

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	(8&9) RS-4	LAKE	31	9
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND

- 1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID EDGE LINE)
- 2 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE LANE LINE - 2' DASH, 6' SKIP)
- 3 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID EDGE LINE)
- 4 PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 5" (WHITE LANE LINE - 10' DASH, 30' SKIP)
- 5 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW SOLID LINE)
- 6 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID LINE)
- 7 THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID LINE)
- 8 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONAL LINE)
- 9 THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP LINES)
- 10 THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (TYP.)



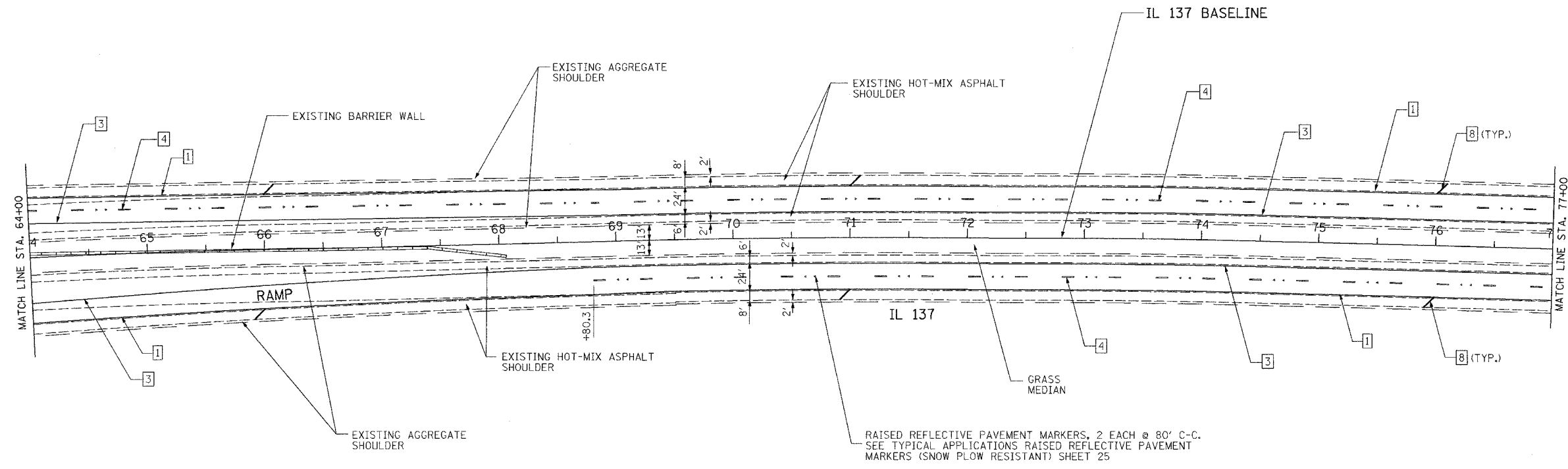
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 FAP 352 (IL 137)
 GREENWOOD AVE TO GENESEE ST.
 ROADWAY AND PAVEMENT
 MARKING PLANS

SCALE: HORIZ. 1"=50
 DATE
 DRAWN BY
 CHECKED BY

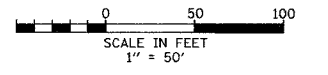
CONTRACT NO. 60B75

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	(8&9) RS-4	LAKE	31	10
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND

- 1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID EDGE LINE)
- 2 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE LANE LINE - 2' DASH, 6' SKIP)
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- 8 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONAL LINE)
- 9 THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP LINES)
- 10 THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (TYP.)

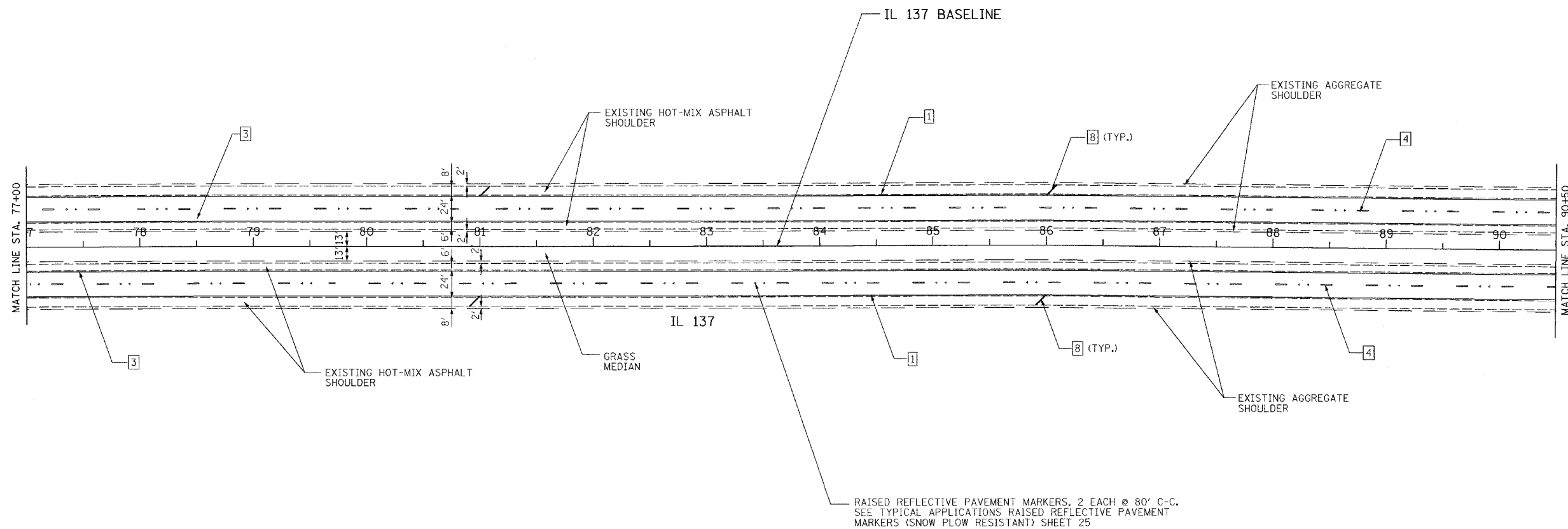


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 FAP 352 (IL 137)
 GREENWOOD AVE TO GENESEE ST.
ROADWAY AND PAVEMENT MARKING PLANS
 SCALE: HORIZ. 1"=50'
 DATE _____ DRAWN BY _____
 CHECKED BY _____

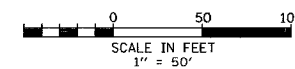
CONTRACT NO. 60875

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	(8&9) RS-4	LAKE	31	11
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND

- 1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID EDGE LINE)
- 2 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE LANE LINE - 2' DASH, 6' SKIP)
- 3 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID EDGE LINE)
- 4 PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 5" (WHITE LANE LINE - 10' DASH, 30' SKIP)
- 5 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW SOLID LINE)
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- 10 THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (TYP.)

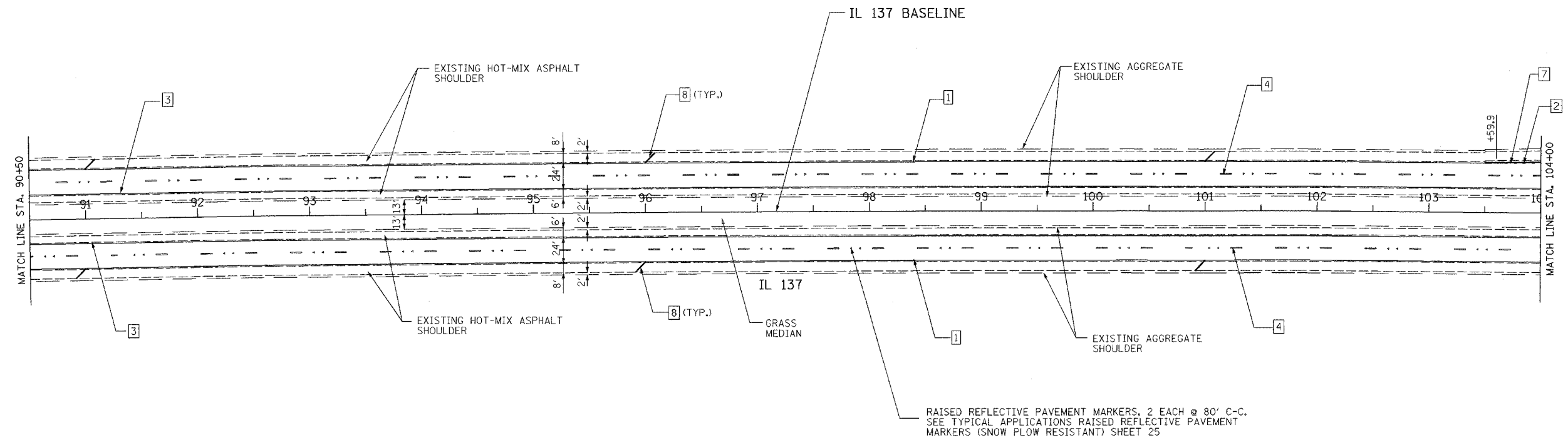


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 FAP 352 (IL 137)
 GREENWOOD AVE TO GENESEE ST.
 ROADWAY AND PAVEMENT MARKING PLANS
 SCALE: HORIZ. 1"=50'
 DATE _____ DRAWN BY _____ CHECKED BY _____

CONTRACT NO. 60B75

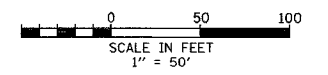
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	(8&9) RS-4	LAKE	31	12
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



RAISED REFLECTIVE PAVEMENT MARKERS, 2 EACH @ 80' C-C.
SEE TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT) SHEET 25

LEGEND

- 1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID EDGE LINE)
- 2 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE LANE LINE - 2' DASH, 6' SKIP)
- 3 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID EDGE LINE)
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- 8 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONAL LINE)
- 9 THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP LINES)
- 10 THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (TYP.)

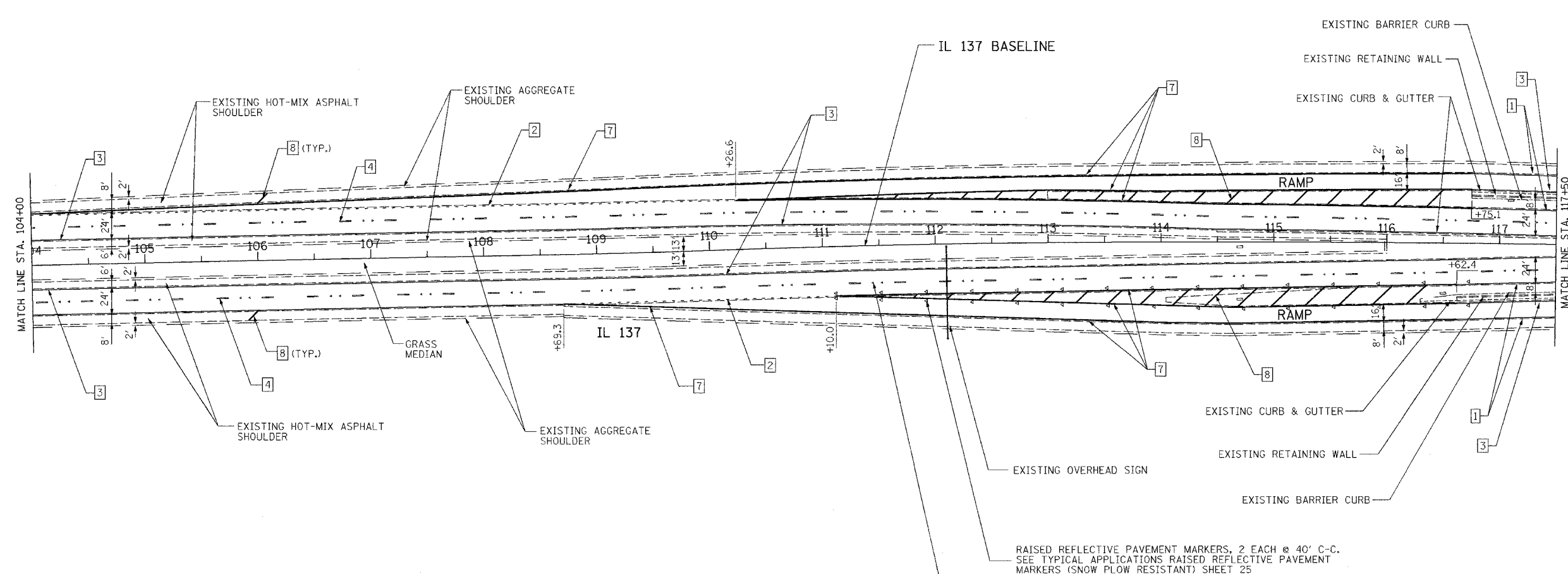


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 FAP 352 (IL 137)
 GREENWOOD AVE TO GENESEE ST.
ROADWAY AND PAVEMENT MARKING PLANS
 SCALE: HORIZ. 1"=50' DRAWN BY
 DATE CHECKED BY

CONTRACT NO. 60B75

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	(8&9) RS-4	LAKE	31	13
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

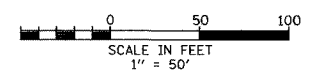


LEGEND

- 1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID EDGE LINE)
- 2 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE LANE LINE - 2' DASH, 6' SKIP)
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- 10 THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (TYP.)

RAISED REFLECTIVE PAVEMENT MARKERS, 2 EACH @ 40' C-C. SEE TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT) SHEET 25

RAISED REFLECTIVE PAVEMENT MARKERS, 2 EACH @ 80' C-C. SEE TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT) SHEET 25



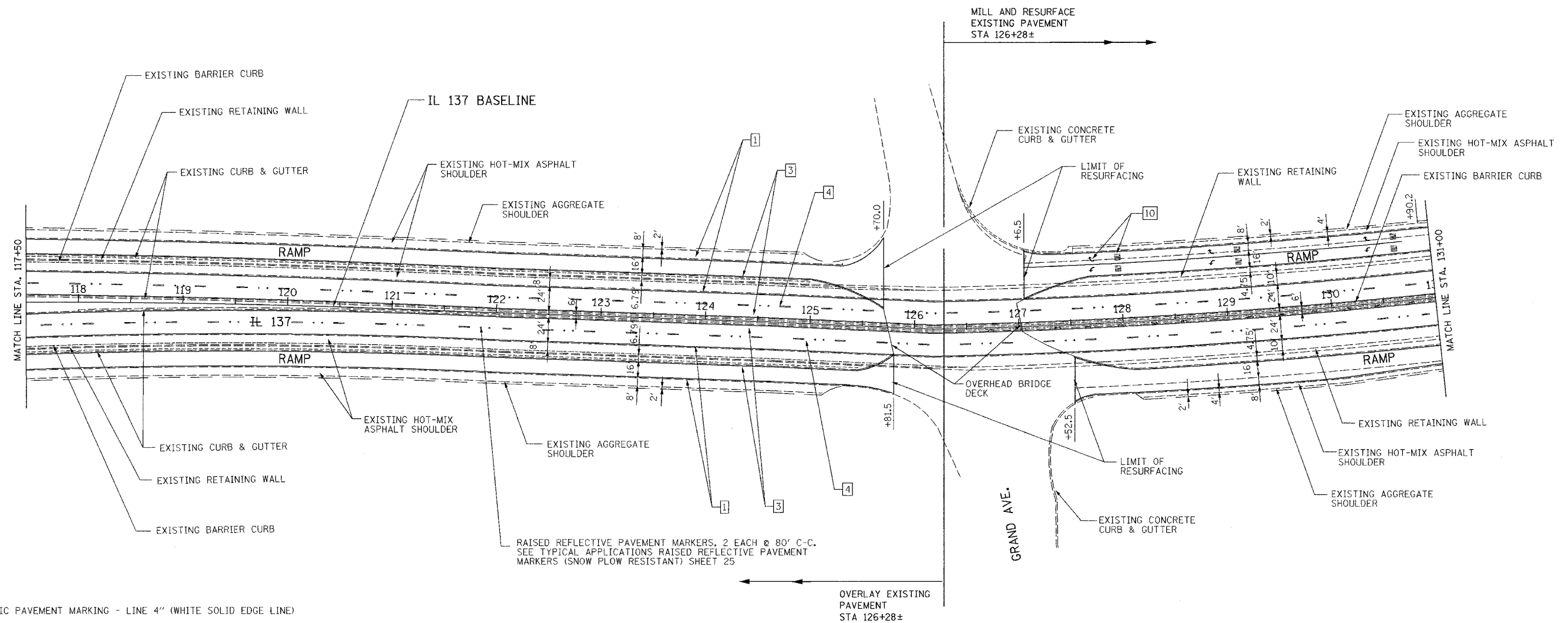
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 FAP 352 (IL 137)
 GREENWOOD AVE TO GENESEE ST.
ROADWAY AND PAVEMENT MARKING PLANS

SCALE: HORIZ. 1"=50' DRAWN BY
 DATE CHECKED BY

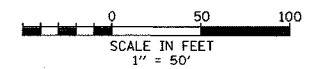
CONTRACT NO. 60B75

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	(8&9) RS-4	LAKE	31	14
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND

- 1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID EDGE LINE)
- 2 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE LANE LINE - 2' DASH, 6' SKIP)
- 3 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID EDGE LINE)
- 4 PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 5" (WHITE LANE LINE - 10' DASH, 30' SKIP)
- 5 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW SOLID LINE)
- 6 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID LINE)
- 7 THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID LINE)
- 8 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONAL LINE)
- 9 THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP LINES)
- 10 THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (TYP.)

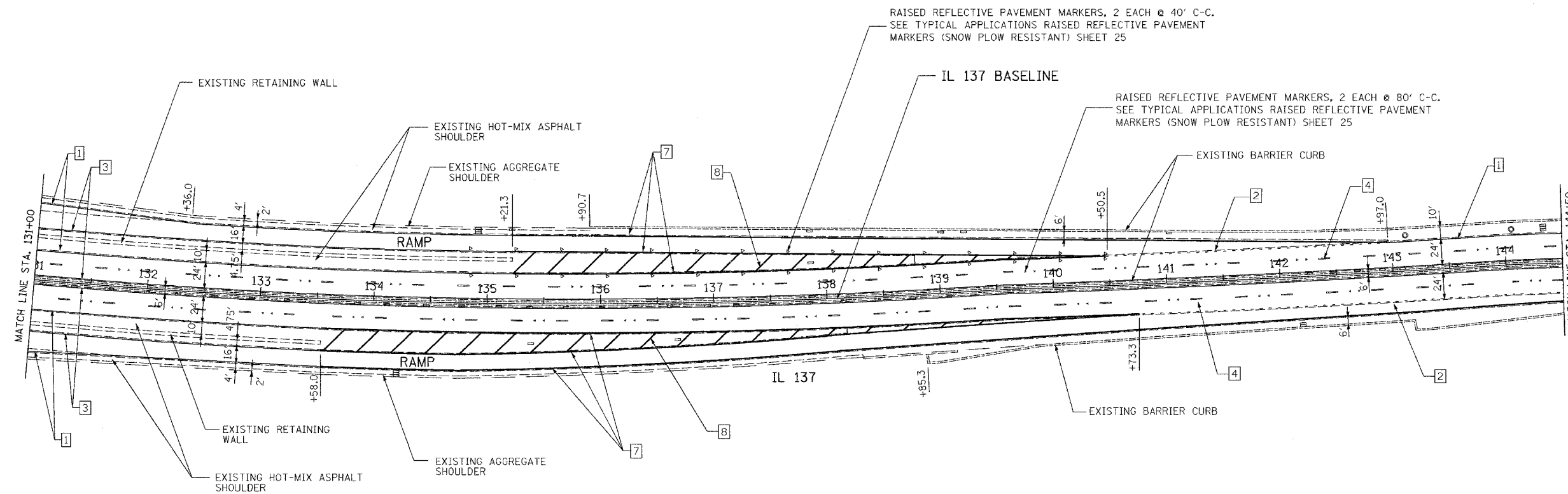
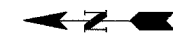


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 FAP 352 (IL 137)
 GREENWOOD AVE TO GENESEE ST.
ROADWAY AND PAVEMENT MARKING PLANS
 SCALE: HORIZ. 1"=50' DRAWN BY
 DATE CHECKED BY

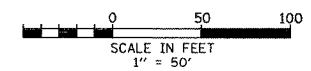
CONTRACT NO. 60B75

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	(8&9) RS-4	LAKE	31	15
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND

- 1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID EDGE LINE)
- 2 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE LANE LINE - 2' DASH, 6' SKIP)
- 3 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID EDGE LINE)
- 4 PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 5" (WHITE LANE LINE - 10' DASH, 30' SKIP)
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- 6 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID LINE)
- 7 THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID LINE)
- 8 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONAL LINE)
- 9 THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP LINES)
- 10 THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (TYP.)



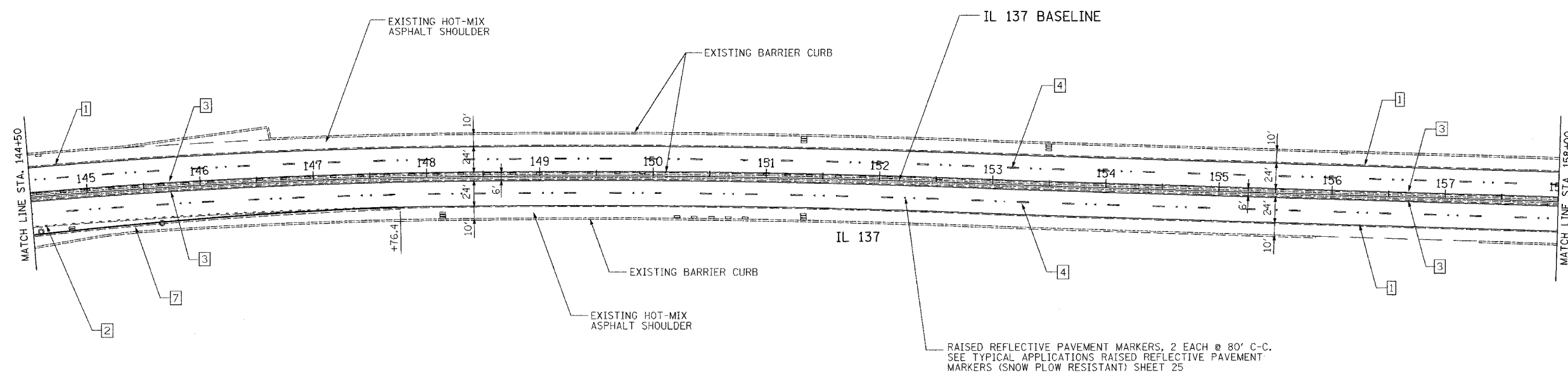
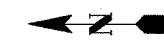
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 FAP 352 (IL 137)
 GREENWOOD AVE TO GENESEE ST.
 ROADWAY AND PAVEMENT
 MARKING PLANS

SCALE: HORIZ. 1"=50' DRAWN BY
 DATE CHECKED BY

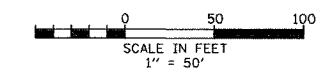
CONTRACT NO. 60B75

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	(8&9) RS-4	LAKE	31	16
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



LEGEND

- 1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID EDGE LINE)
- 2 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE LANE LINE - 2' DASH, 6' SKIP)
- 3 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID EDGE LINE)
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- 8 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONAL LINE)
- 9 THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP LINES)
- 10 THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (TYP.)

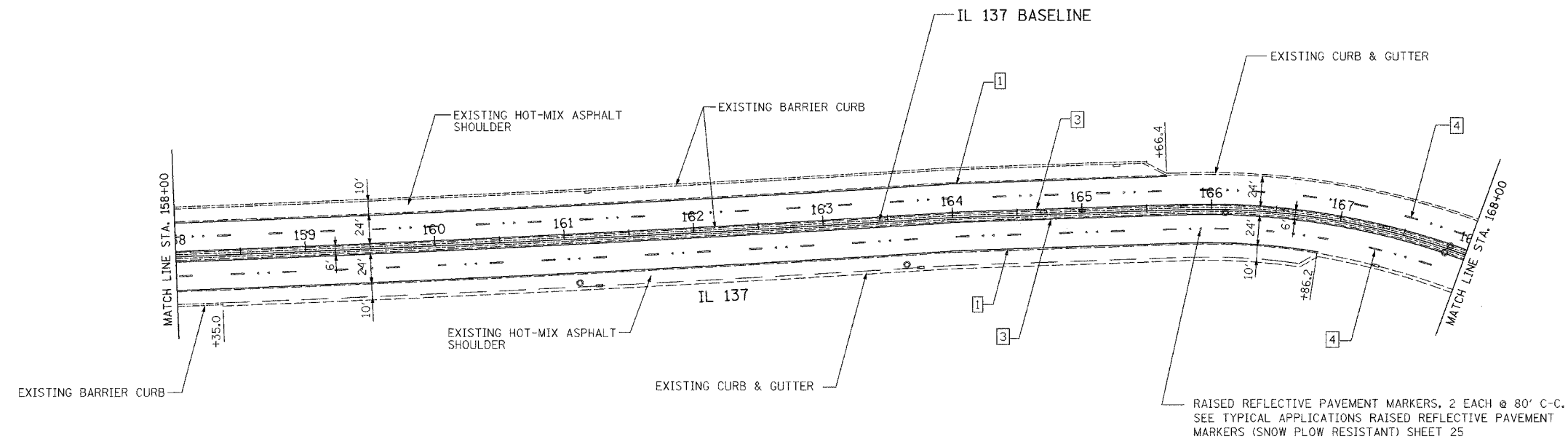


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 FAP 352 (IL 137)
 GREENWOOD AVE TO GENESEE ST.
ROADWAY AND PAVEMENT MARKING PLANS
 SCALE: HORIZ. 1"=50' DRAWN BY
 DATE CHECKED BY

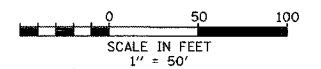
CONTRACT NO. 60B75

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	(8&9) RS-4	LAKE	31	17
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND

- 1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID EDGE LINE)
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- 9 THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP LINES)
- 10 THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (TYP.)



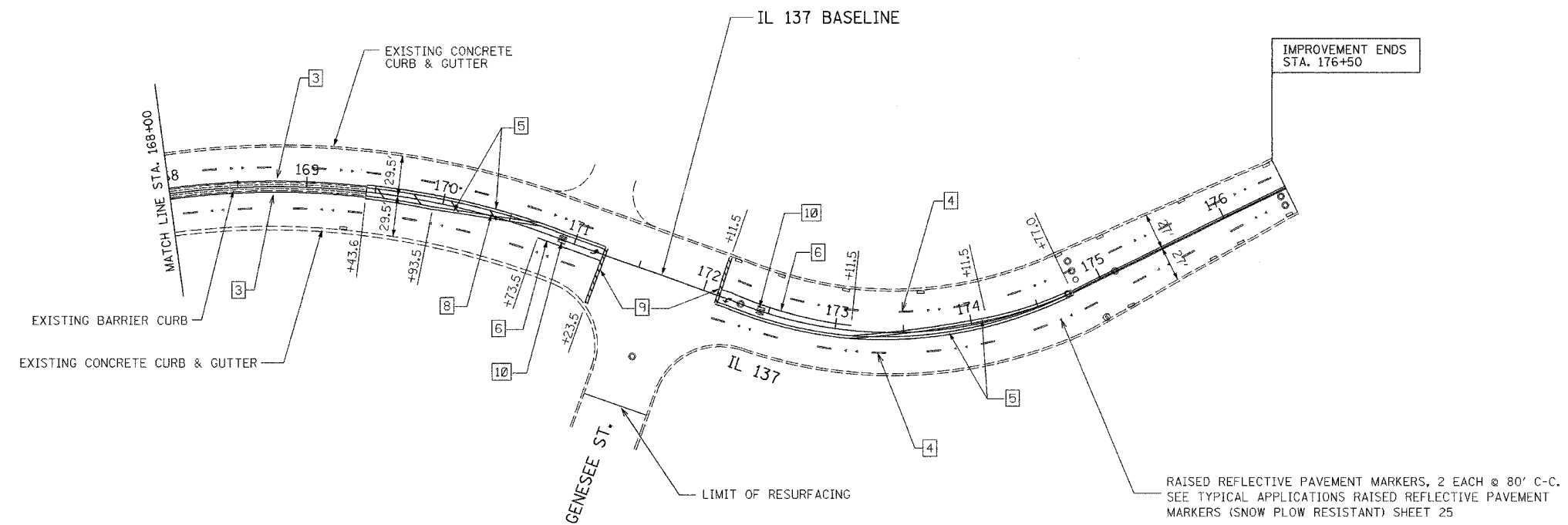
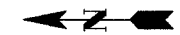
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 FAP 352 (IL 137)
 GREENWOOD AVE TO GENESEE ST.
 ROADWAY AND PAVEMENT
 MARKING PLANS

SCALE: HORIZ. 1"=50' DRAWN BY
 DATE CHECKED BY

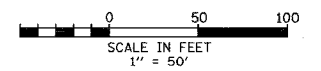
CONTRACT NO. 60B75

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	(8&9) RS-4	LAKE	31	18
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND

- 1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID EDGE LINE)
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- 10 THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (TYP.)



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 FAP 352 (IL 137)
 GREENWOOD AVE TO GENESEE ST.
 ROADWAY AND PAVEMENT
 MARKING PLANS

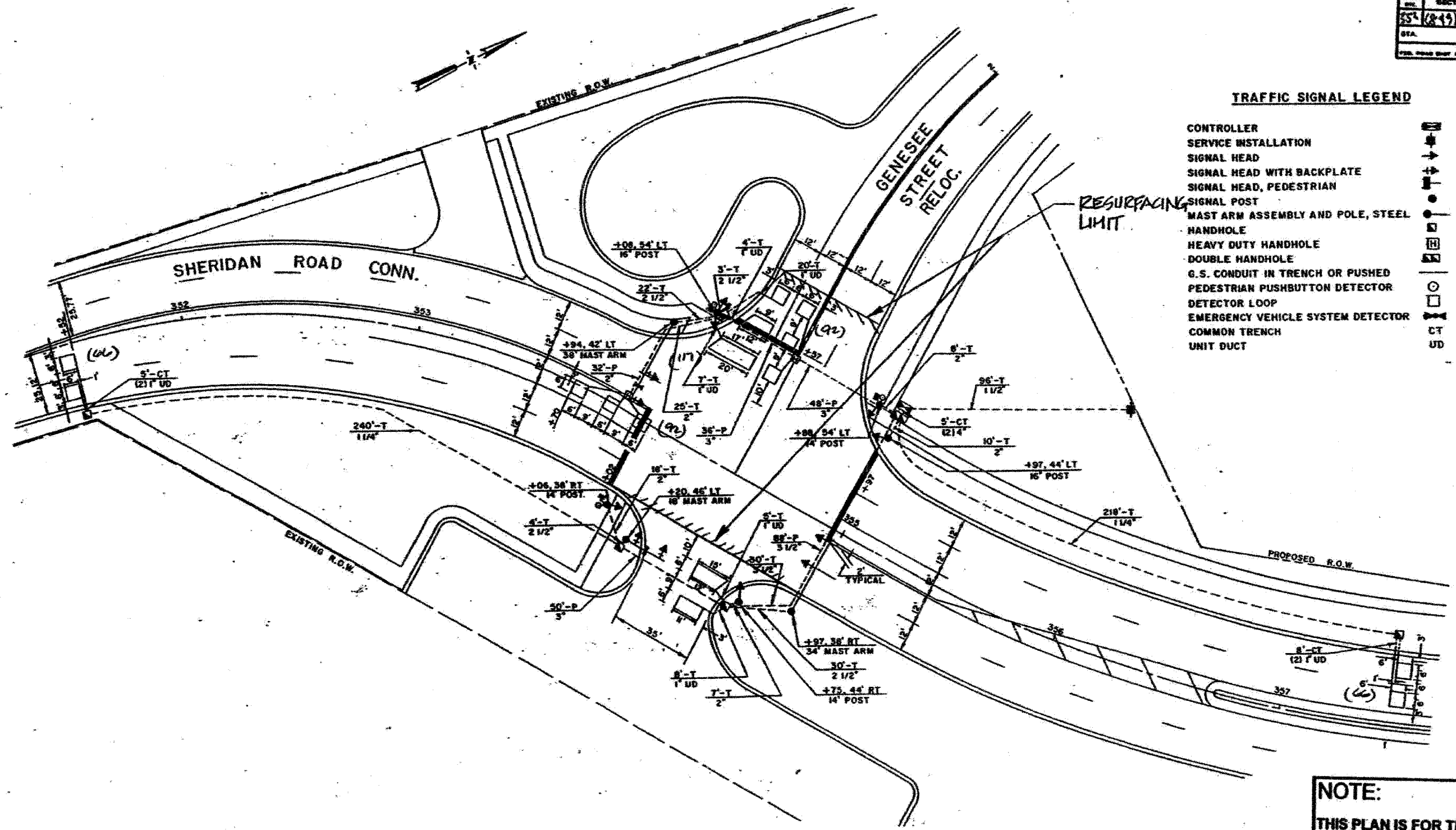
SCALE: HORIZ. 1"=50' DRAWN BY
 DATE CHECKED BY

CONTRACT NO. 60 B 75

P.O. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
85-1849	1849	LAKE	32	19
STA.	TO STA.			

TRAFFIC SIGNAL LEGEND

- CONTROLLER
- SERVICE INSTALLATION
- SIGNAL HEAD
- SIGNAL HEAD WITH BACKPLATE
- SIGNAL HEAD, PEDESTRIAN
- SIGNAL POST
- MAST ARM ASSEMBLY AND POLE, STEEL
- HANDHOLE
- HEAVY DUTY HANDHOLE
- DOUBLE HANDHOLE
- G.S. CONDUIT IN TRENCH OR PUSHED
- PEDESTRIAN PUSHBUTTON DETECTOR
- DETECTOR LOOP
- EMERGENCY VEHICLE SYSTEM DETECTOR
- COMMON TRENCH
- UNIT DUCT



REPLACE ALL DETECTOR LOOPS AS SHOWN

(WITHIN THE RESURFACING LIMITS)

CODE NO.	QUANTITY	UNIT	ITEM
86600600	433	Foot	Detector Loop Replacement

REVISIONS	
NAME	DATE

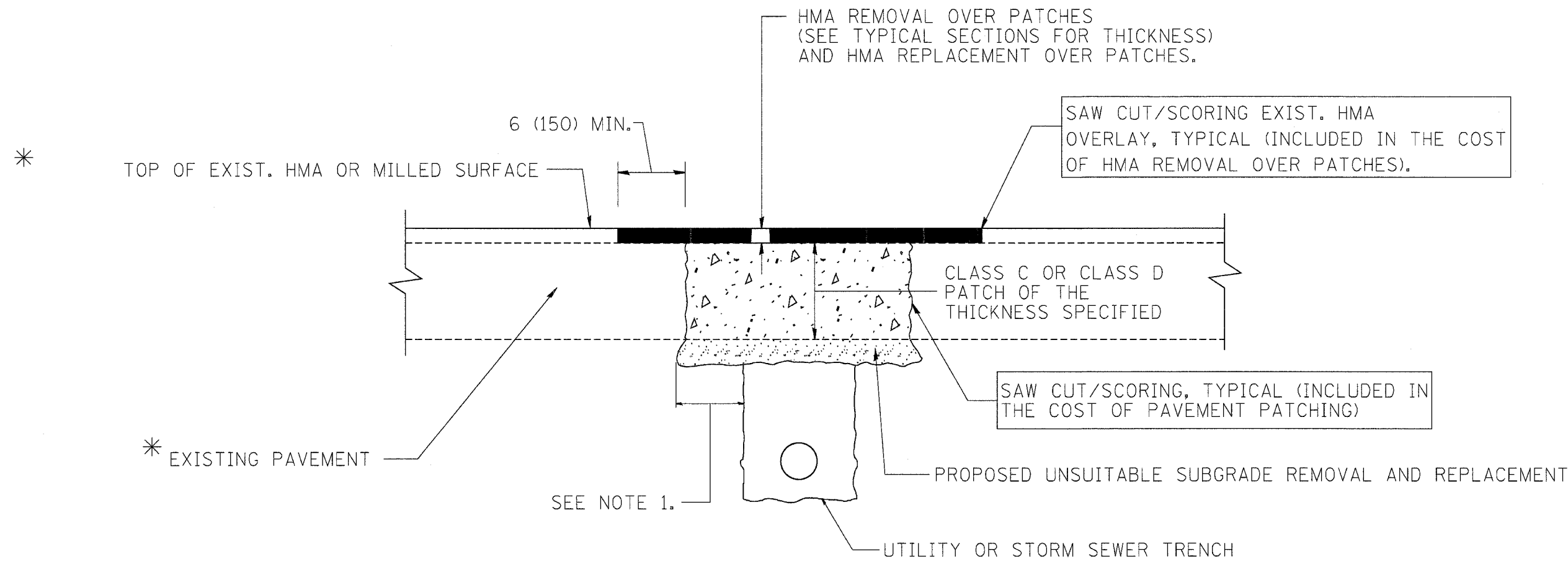
NOTE:
 THIS PLAN IS FOR THE PURPOSE OF REPLACING THE DETECTOR LOOPS ONLY. ALL OTHER INFORMATION SHOWN IS NOT RELATED AND WILL BE DISREGARDED.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETECTOR LOOP REPLACEMENT
 ILL. RTE. 137 @ GENESEE STREET

SCALE: NONE
 DATE: JAN 2007

DRAWN BY: JHE
 DESIGNED BY: JHE
 CHECKED BY: DAD

CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	(B&G)R5-4	LAKE	31	20
STA.		TO STA.		
FED. ROAD DIST. NO. 1		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

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE FULL DEPTH PATCHES
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

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

REVISIONS	
NAME	DATE
R. SHAH	10/25/94
R. SHAH	01/14/95
R. SHAH	03/23/95
R. SHAH	04/24/95
A. HOUSEH	03/15/96
A. ABBAS	03/21/97
A. ABBAS	01/20/98
ART ABBAS	04/27/98
R. BORO	01/01/07

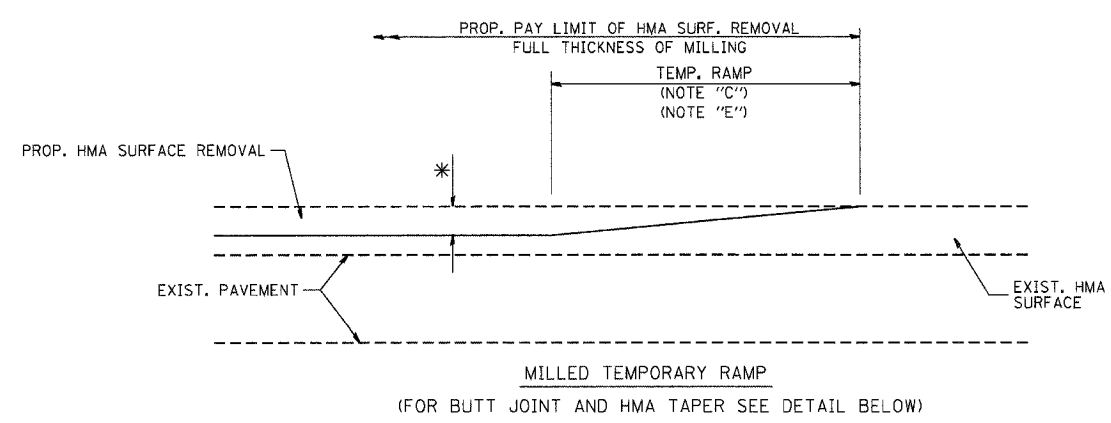
ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT

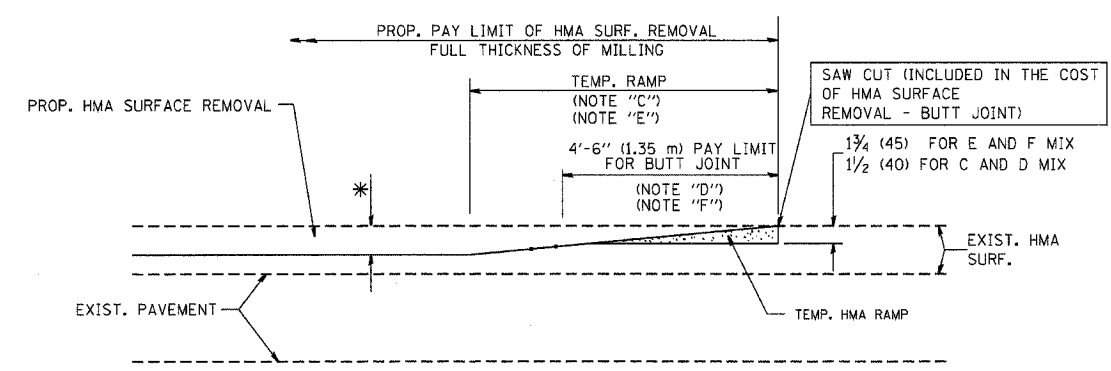
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 HORIZ. NONE
 PLOT DATE: 10/31/2006
 DRAWN BY
 CHECKED BY
 BD400-04 (BD-22)
 REVISION DATE: 01/01/07

PLOT DATE = 10/31/2006
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 USER NAME = user22

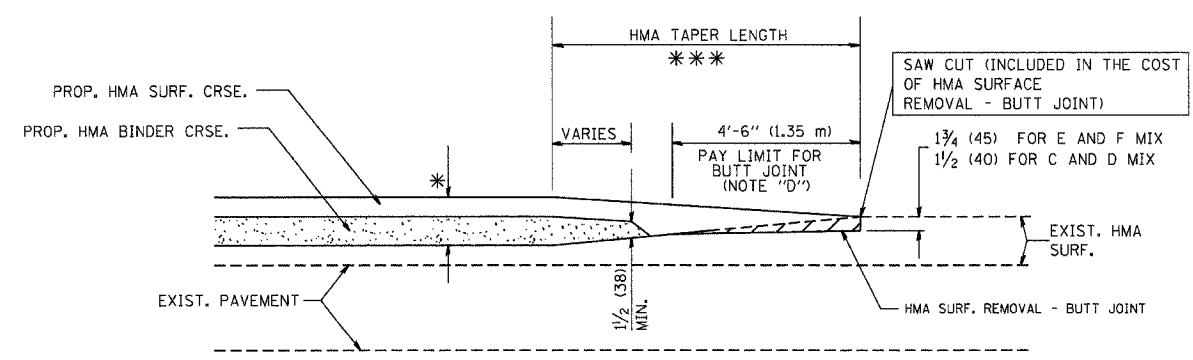
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
302	(869) RS-4	LAKE	31	21
STA.		TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



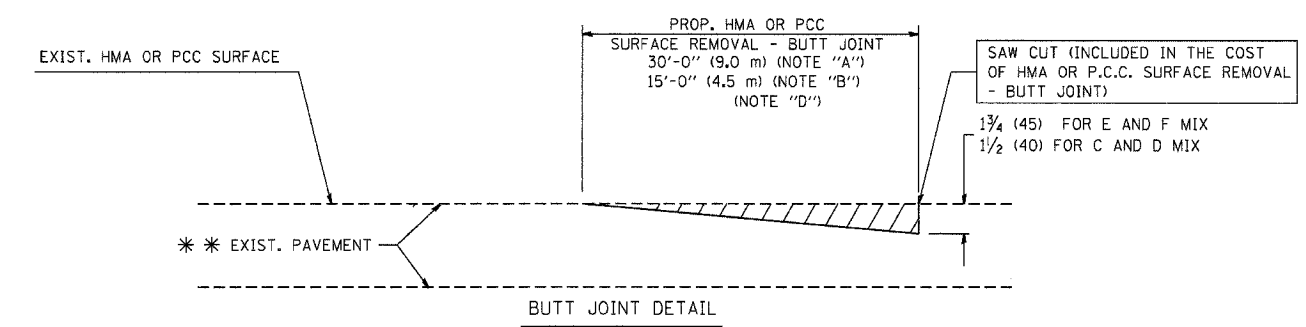
OPTION 1



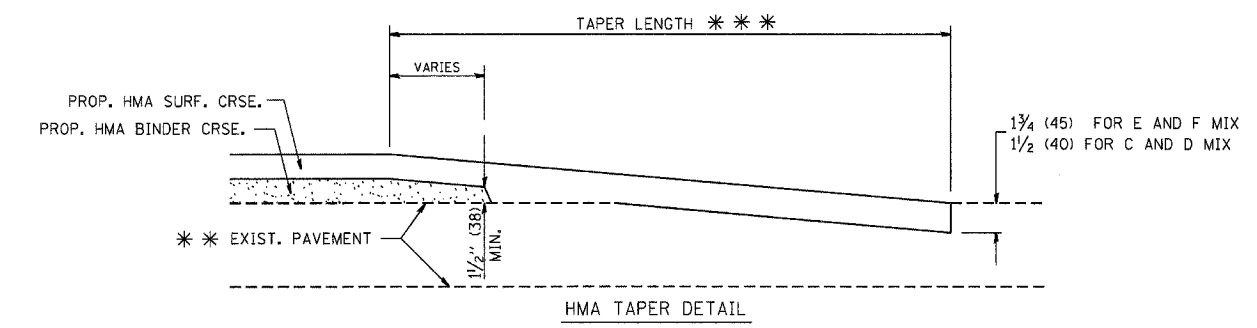
OPTION 2
TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER
FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER
FOR RESURFACING ONLY

*** 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")

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

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".

REVISIONS	
NAME	DATE
M. DE YONG	6-13-90
M. DE YONG	7-3-90
M. DE YONG	3-27-92
R. SHAH	09/09/94
R. SHAH	10/25/94
A. ABBAS	03/21/97
M. GOMEZ	04/06/01
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS

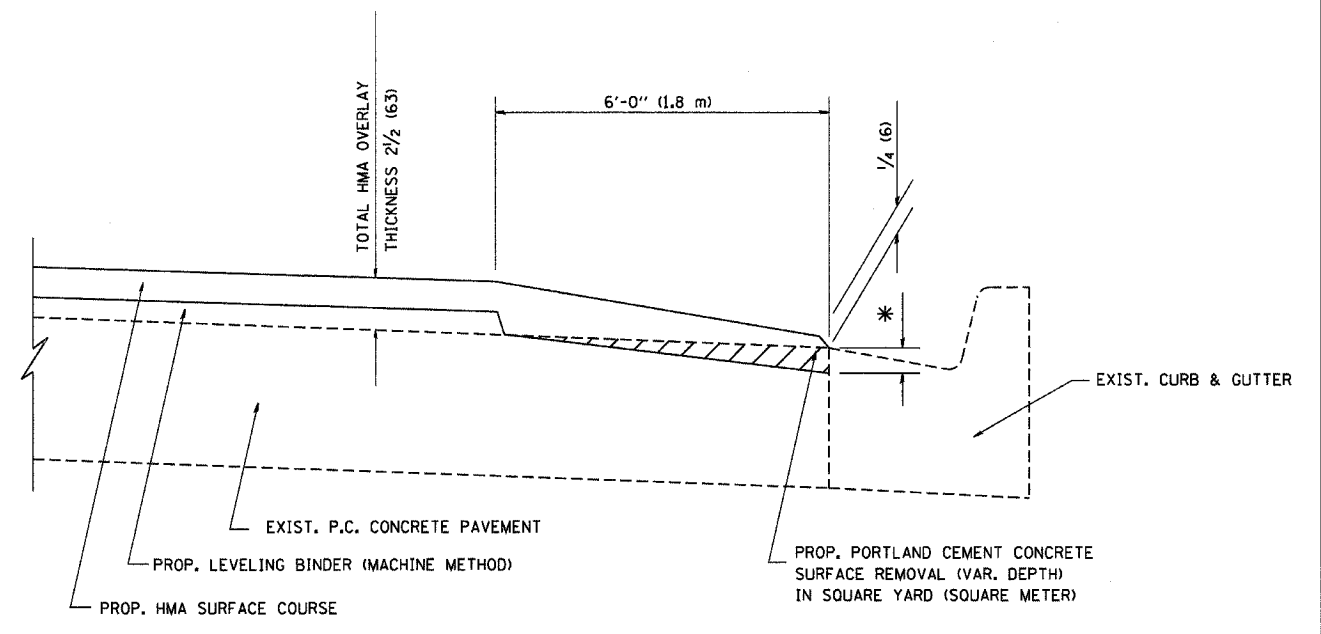
SCALE: VERT. NONE
HORIZ. 1"=20'
PLOT DATE: 10/31/2006

DRAWN BY
CHECKED BY

BD400-05 (VI-BD32)
REVISION DATE: 01/01/07

PLOT DATE = 10/31/2006
PLOT SCALE = 1/8"=1'-0"
USER NAME = jlegas

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352 (E+9)	RS-4	LAKE	31	22
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	



HMA TAPER AT
EDGE OF P.C.C PAVEMENT

HMA SURFACE		LEVELING BINDER		* MILLING AT GUTTER FLAG
MIX	THICKNESS	THICKNESS		
C OR D	1/2 (38)	1 (25)		1/4 (33)
F	1 3/4 (44)	3/4 (19)		1/2 (38)

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

REVISIONS	
NAME	DATE
R. SHAH	09/10/94
R. SHAH	10/25/94
A. ABBAS	05/05/99
E. GOMEZ	12/21/00
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

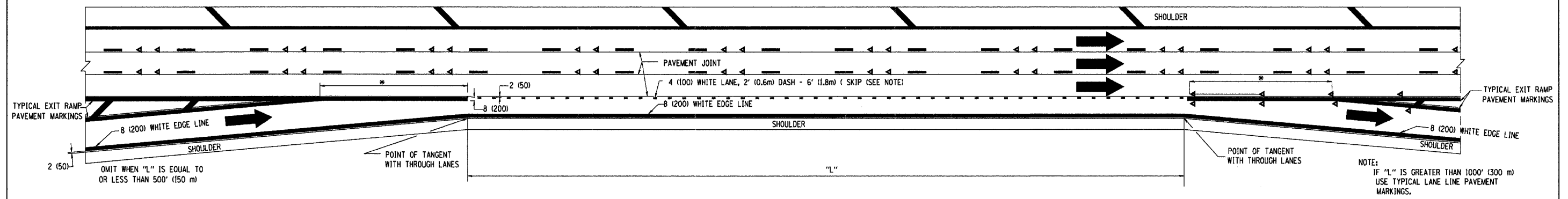
HMA TAPER AT
EDGE OF P.C.C. PAVEMENT

SCALE: VERT. NONE
HORIZ. NONE
PLOT DATE: 10/31/2006

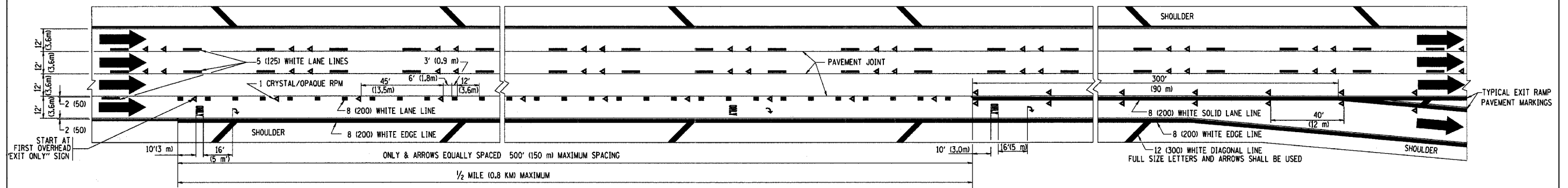
DRAWN BY Jis
CHECKED BY A. ABBAS
BD400-06 (BD33)
REVISION DATE: 01/01/07

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USER NAME = jgms

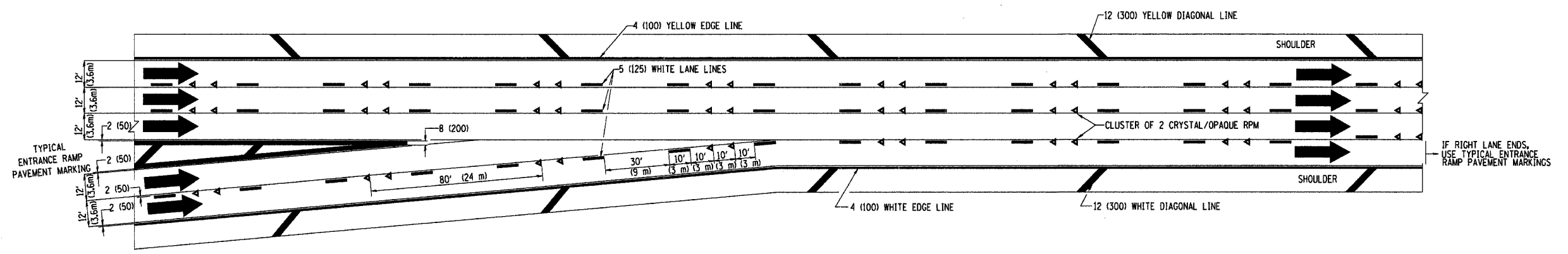
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	(B49) R5-4	LAKE	31	23
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TYPICAL ENTRANCE/EXIT RAMP COMBINATION PAVEMENT MARKINGS



TYPICAL EXIT ONLY LANE PAVEMENT MARKINGS



TYPICAL TWO LANE ENTRANCE RAMP PAVEMENT MARKINGS

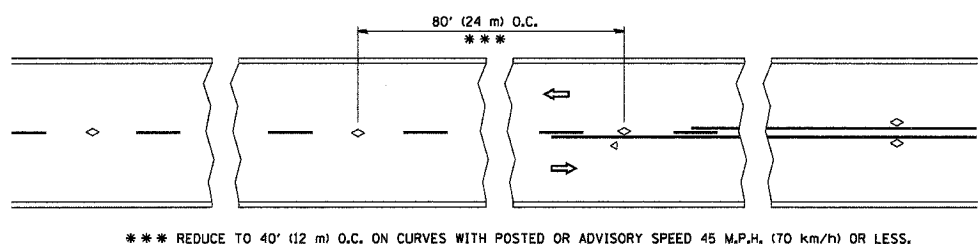
REVISIONS	
NAME	DATE
DWS	1/90
DWS	5/91
SPB	1/07

ILLINOIS DEPARTMENT OF TRANSPORTATION
**MULTI-LANE FREEWAY
 PAVEMENT MARKING
 DETAILS**

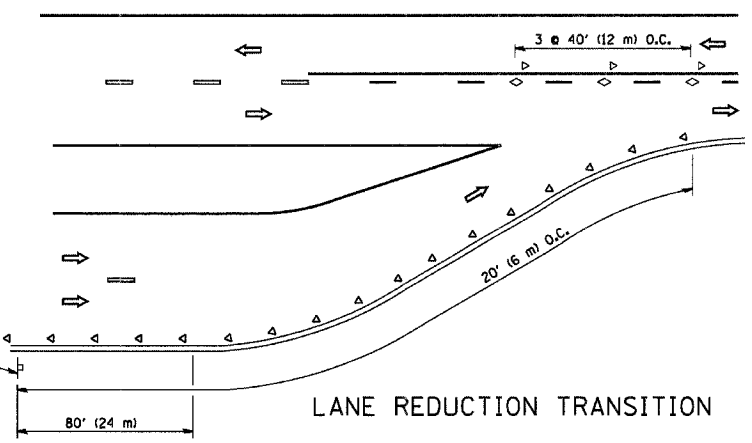
SCALE: NONE
 DATE: 1/16/2007
 DRAWN BY C.A.D.D.
 CHECKED BY

PLOT DATE = 1/16/2007
 FILE NAME = K:\projects\1012.dgn
 USER NAME = DLB007 / IL
 USER NAME = Dsgp

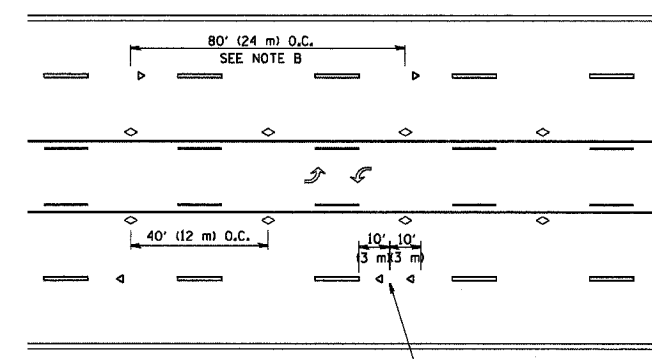
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	(6+9) RS-4	LAKE	31	25
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



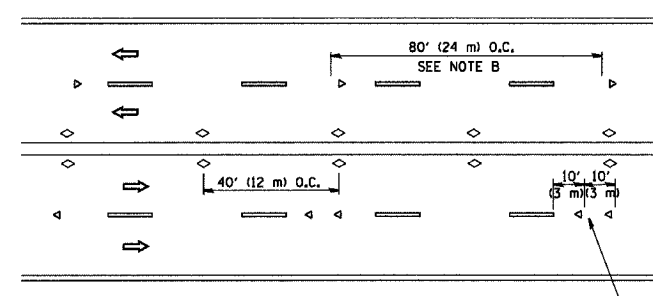
TWO-LANE/TWO-WAY



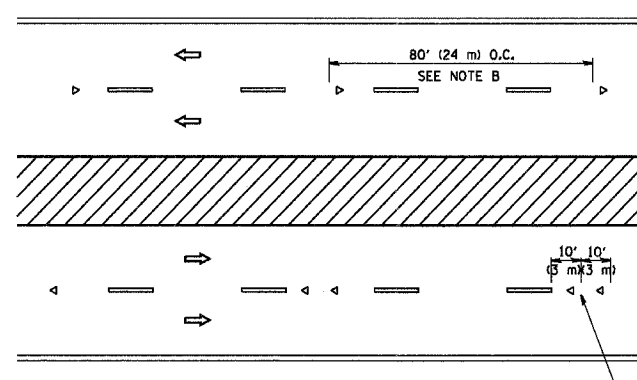
LANE REDUCTION TRANSITION



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

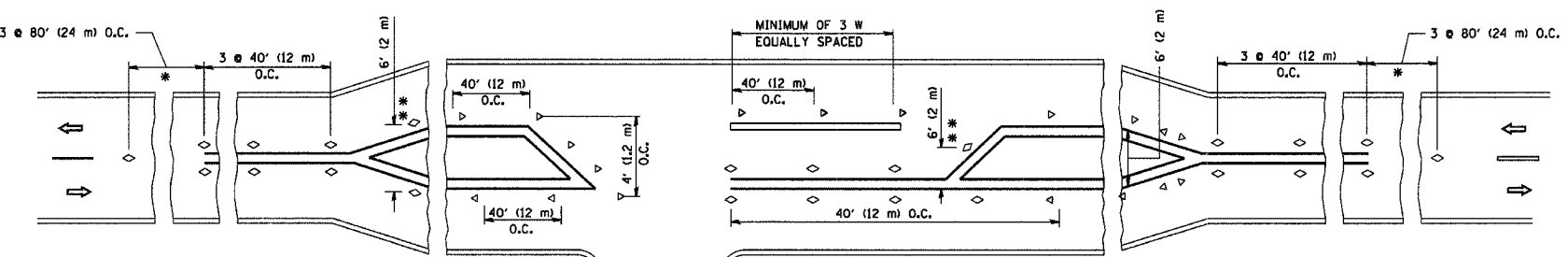
LANE MARKER NOTES

- 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.
- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

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 SHOULD BE INCLUDED IN THE PLANS.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.

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



LEFT TURN

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

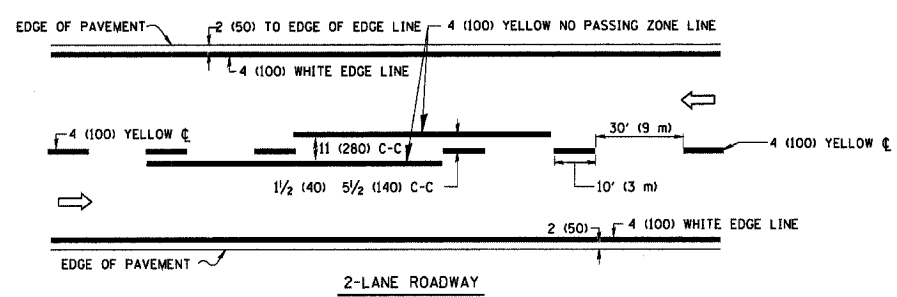
REVISIONS	
NAME	DATE
T. RAMWACHER	09-19-94
T. RAMWACHER	03-12-99
T. RAMWACHER	01-06-00

ILLINOIS DEPARTMENT OF TRANSPORTATION
TYPICAL APPLICATIONS
RAISED REFLECTIVE PAVEMENT
MARKERS (SNOW-PLOW RESISTANT)

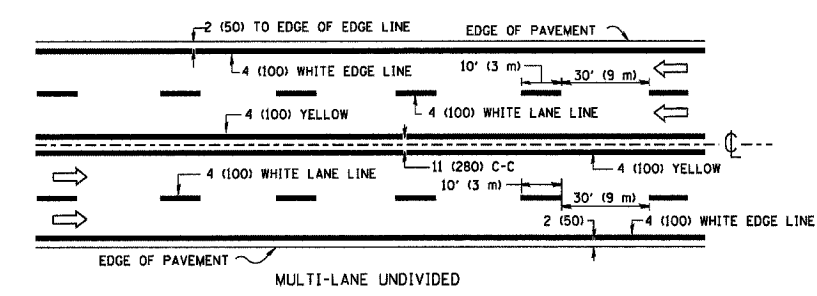
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DATE: 1/17/2007
DRAWN BY CADD
CHECKED BY TC-11
REVISION DATE: 01/06/00

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USER NAME = leggo

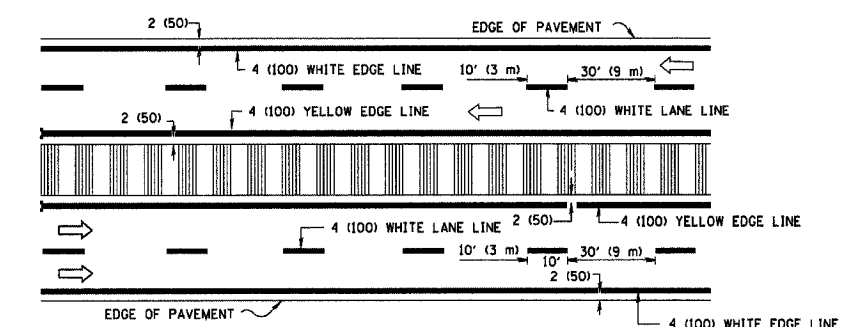
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	(849)R5-4	LAKE	31	26
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



2-LANE ROADWAY



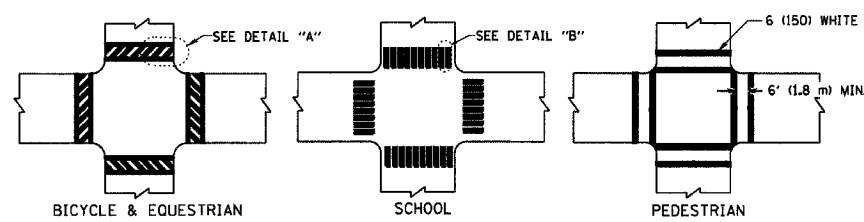
MULTI-LANE UNDIVIDED



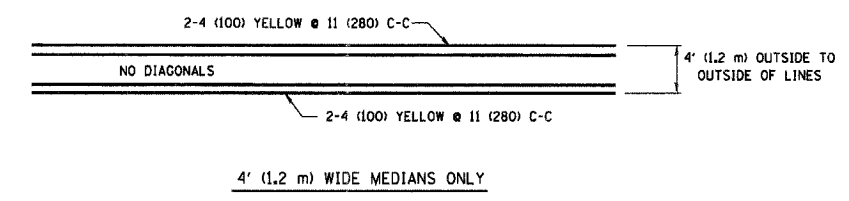
MULTI-LANE DIVIDED WITH MOUNTABLE MEDIAN

NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

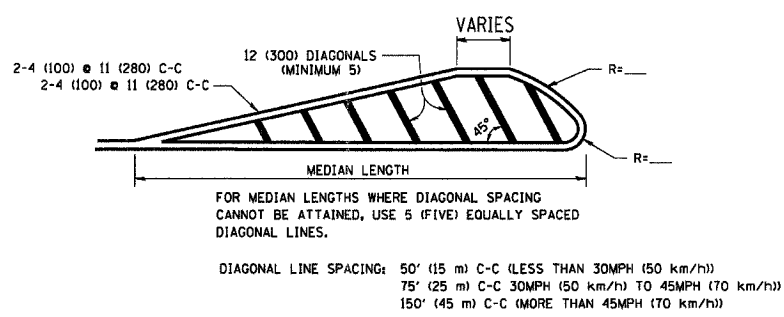
TYPICAL LANE AND EDGE LINE MARKING



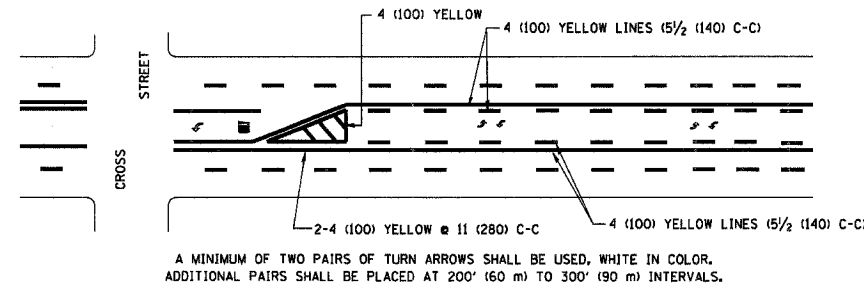
TYPICAL CROSSWALK MARKING



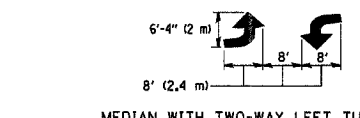
4' (1.2 m) WIDE MEDIANS ONLY



MEDIANS OVER 4' (1.2 m) WIDE

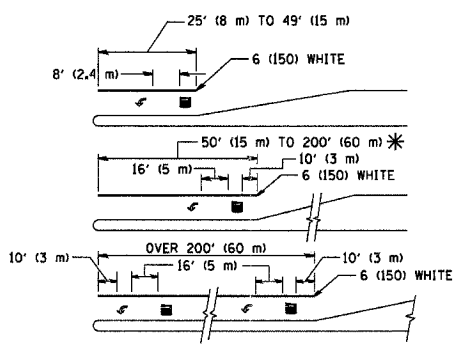


TYPICAL PAINTED MEDIAN MARKING



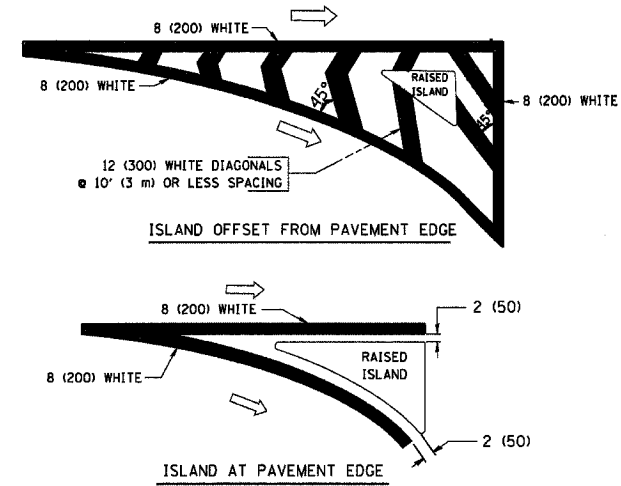
MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL LEFT (OR RIGHT) TURN LANE



FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
 AREA = 15.6 SQ. FT. (1.5 m²) AREA = 20.8 SQ. FT. (1.9 m²)
 * 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 TURN LANE MARKING



TYPICAL ISLAND MARKING

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 MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
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; 18 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	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))

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

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

REVISIONS	
NAME	DATE
EVERS	03-19-90
T. RAMMACHER	10-27-94
ALEX HOUSEH	10-09-96
ALEX HOUSEH	10-17-96
T. RAMMACHER	01-06-00

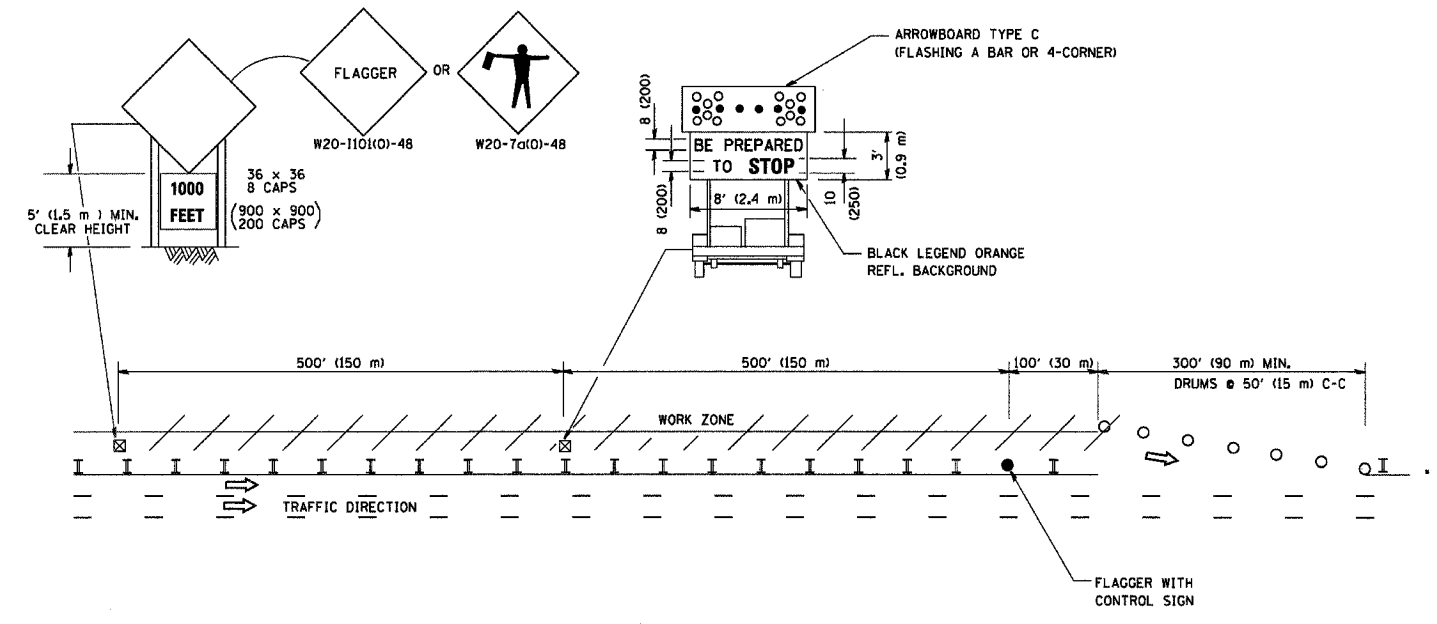
ILLINOIS DEPARTMENT OF TRANSPORTATION
 DISTRICT ONE
 TYPICAL PAVEMENT MARKINGS

SCALE: NONE
 DATE: 1/17/2007
 DRAWN BY CADD
 CHECKED BY
 TC-13
 REVISION DATE: 01/06/00

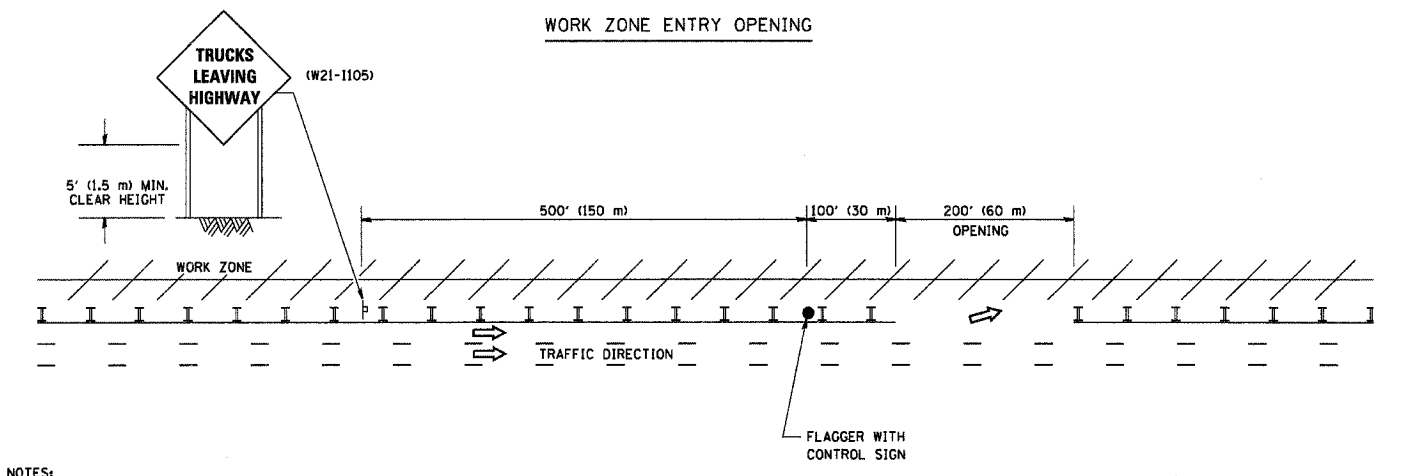
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	(B+4) R3-H	LAKE	31	27
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



NOTES:

1. The Arrowboard, the Flagger Ahead trailer mounted sign, and the Trucks Leaving Highway sign shall be removed or turned away from traffic and the exit and entry openings shall be closed when the flagging operation ceases.
2. Work Zone Exit Openings should be a minimum of one half mile apart.
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

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

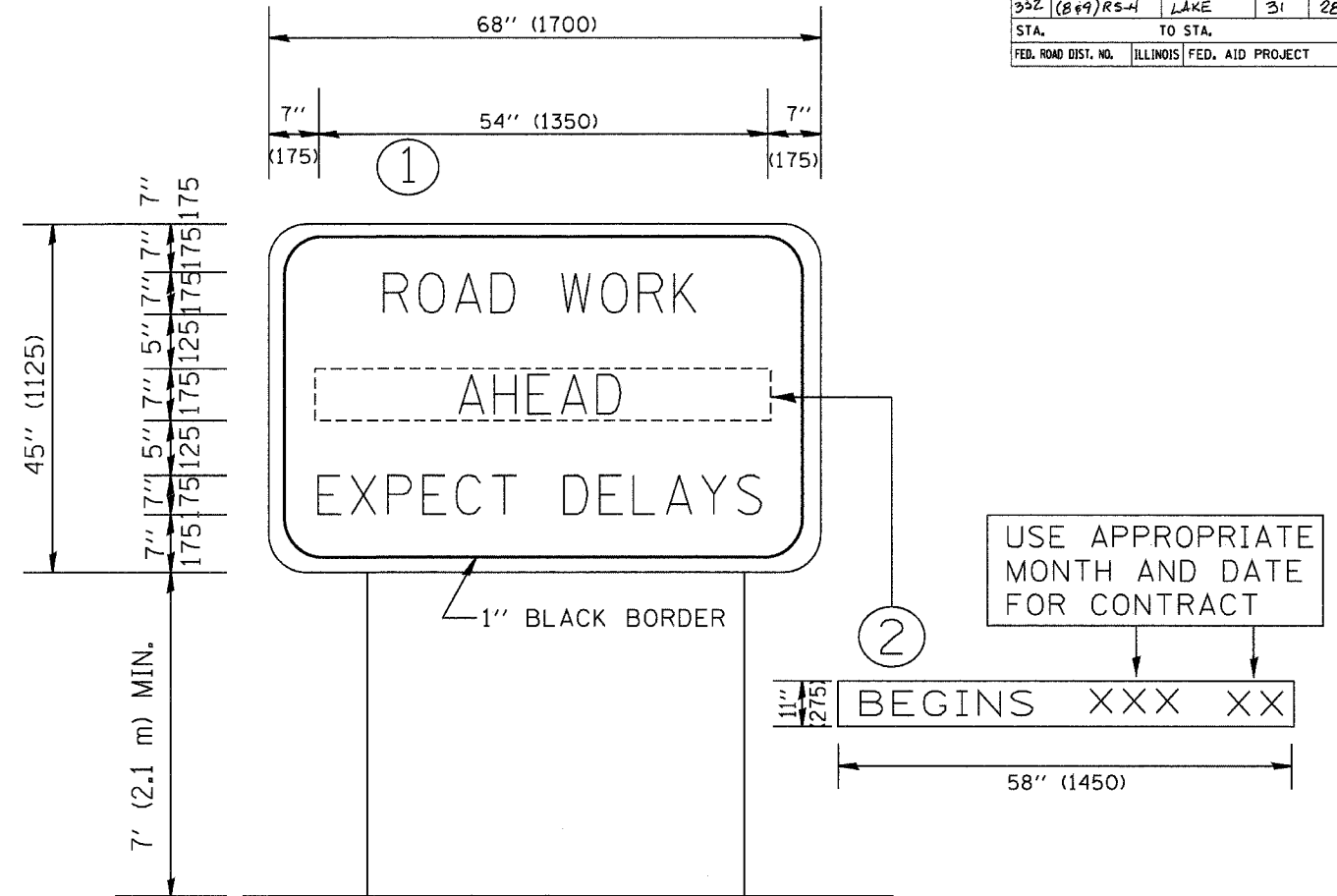
REVISIONS	
NAME	DATE
DWS	8/98
JAF	4/03
JAF	2/06
SPB	1/07

ILLINOIS DEPARTMENT OF TRANSPORTATION
SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

SCALE: NONE
DATE: 1/16/2007

DRAWN BY CADD
CHECKED BY TC-18
REVISION DATE: 01/01/07

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	(869)RS-4	LAKE	31	28
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



NOTES:

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

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

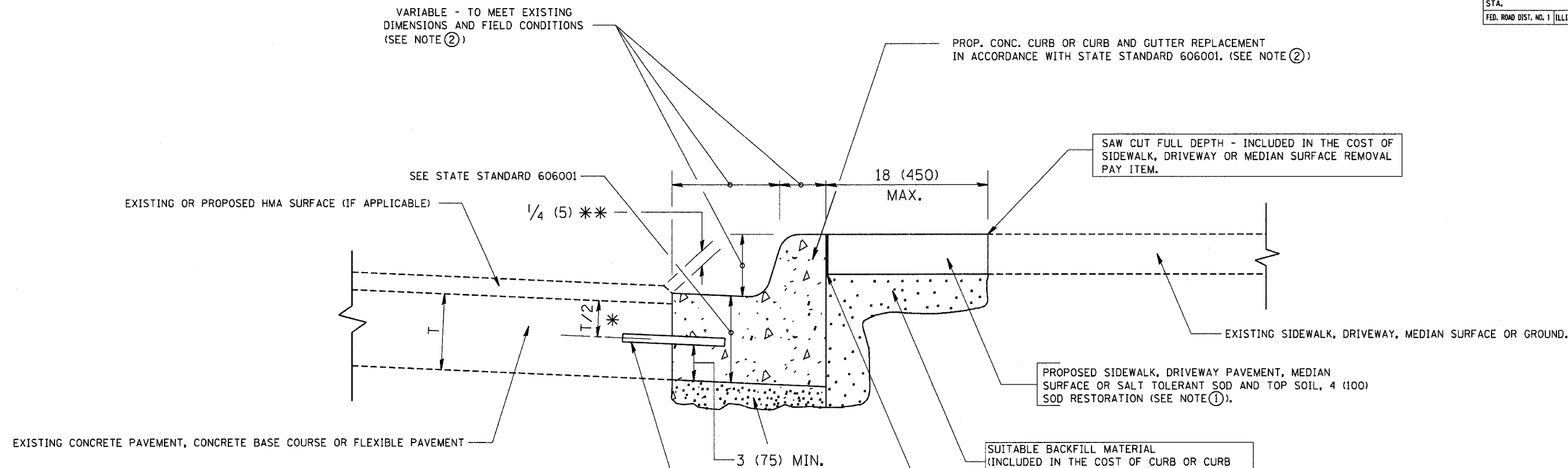
REVISIONS	
NAME	DATE
R. MIRS	9-15-97
R. MIRS	12-11-97
T. RAMMACHER	2-2-99

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TEMPORARY INFORMATION SIGNING

SCALE:
 DATE: 1/17/2007

DRAWN BY DESIGN
 CHECKED BY
 TC22
 REVISION DATE: 02/02/99

CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	(849)RS-4	LAKE	31	29
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



- * 3 (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.
- * * IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

- NOTE:
- ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.
 - ② CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.
 - ③ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.
 - ④ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.
 - ⑤ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.
 - ⑥ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.
 - ⑦ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

SALT TOLERANT SOD AND TOP SOIL, 4 (100) RESTORATION WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.

REMOVAL AND REPLACEMENT 4 (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

REMOVAL AND REPLACEMENT IN EXCESS OF 4 (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

PROPOSED #6 (20) EPOXY COATED TIE BARS 24 (600) LONG AT 24 (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USUABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

BASIS OF PAYMENT:
THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

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

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

REVISIONS	
NAME	DATE
A. HOUSEH	03/11/94
R. SHAH	02/24/95
R. SHAH	03/02/95
R. SHAH	08/19/96
R. SHAH	09/12/96
R. SHAH	09/19/96
R. SHAH	10/03/96
A. ABBAS	03/21/97
M. GOMEZ	01/22/01
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

CURB OR
CURB AND GUTTER
REMOVAL AND REPLACEMENT

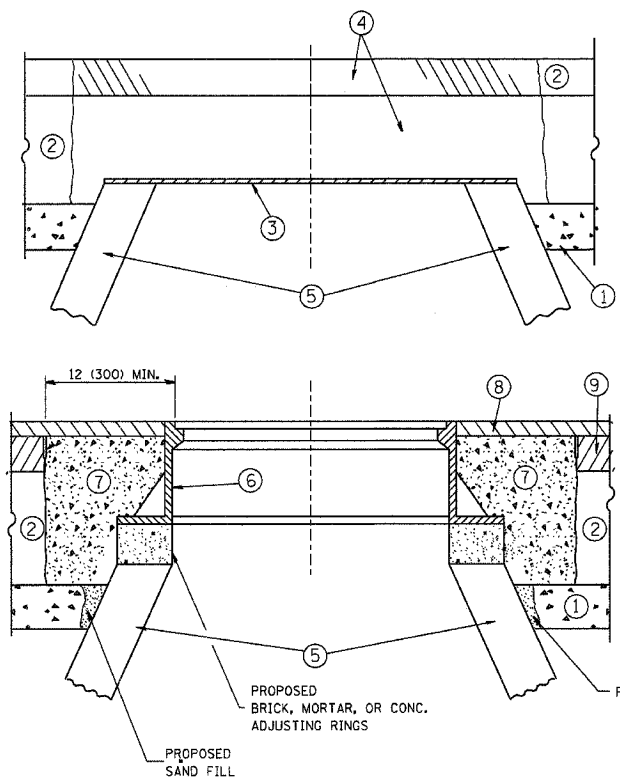
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HORIZ. 1"=10'
PLOT DATE: 10/31/2006

DRAWN BY
CHECKED BY
BD600-06 (BD-24)

PLOT DATE = 10/31/2006
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 USER NAME = jgms

REVISION DATE: 01/01/07

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
357	(8+9) R6-4	LAKE	31	30
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS		FED. AID PROJECT



CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS SI CONCRETE, OR HMA SURFACE COURSE OR HMA BINDER COURSE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS.

LEGEND

- ① SUB-BASE GRANULAR MATERIAL
- ② EXISTING PAVEMENT
- ③ 36 (900) DIAMETER METAL PLATE
- ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- ⑤ EXISTING STRUCTURE
- ⑥ FRAME AND LID (SEE NOTES)
- ⑦ CLASS SI CONCRETE, HMA SURFACE COURSE OR HMA BINDER COURSE
- ⑧ PROPOSED HMA SURFACE COURSE
- ⑨ PROPOSED HMA BINDER COURSE

NOTES:

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

LOCATION OF STRUCTURES:

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT:

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR "FRAMES AND LIDS TO BE ADJUSTED, SPECIAL" NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

REVISIONS	
NAME	DATE
R. SHAH	10/25/94
R. SHAH	01/30/95
R. SHAH	03/10/95
A. ABBAS	03/21/97
R. WIEDEMAN	05/14/04
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

SCALE: VERT. NONE
HORIZ. NONE
PLOT DATE: 10/31/2006

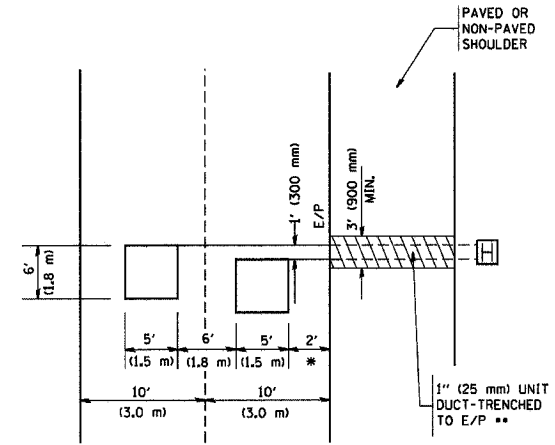
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CHECKED BY

BD600-03 (BD-8)
REVISION DATE: 01/01/07

F.A. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	(84)RS-4	LAKE	31	31
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

LOOPS NEXT TO SHOULDERS

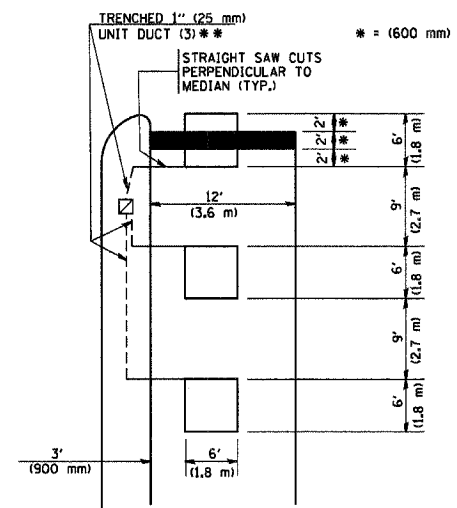
PROVIDE A PAVEMENT REPLACEMENT
NOTE WHICH SHOULD EQUAL
3' (900 mm) X WIDTH OF
PAVED SHOULDER.



* = (600 mm)
** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

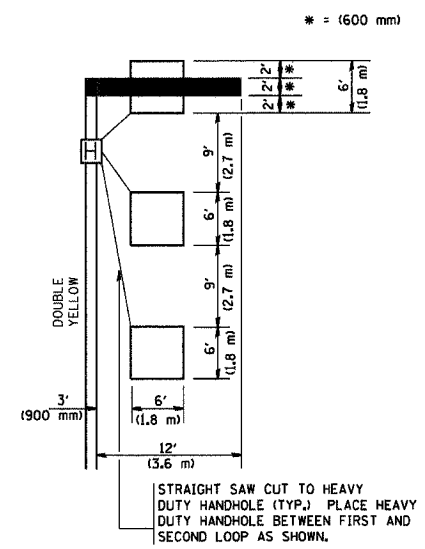
LEFT TURN LANES WITH MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH
(PROTECTED / PERMITTED LEFT TURN PHASING)

HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.



** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

LEFT TURN LANES WITHOUT MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH
(PROTECTED / PERMITTED LEFT TURN PHASING)

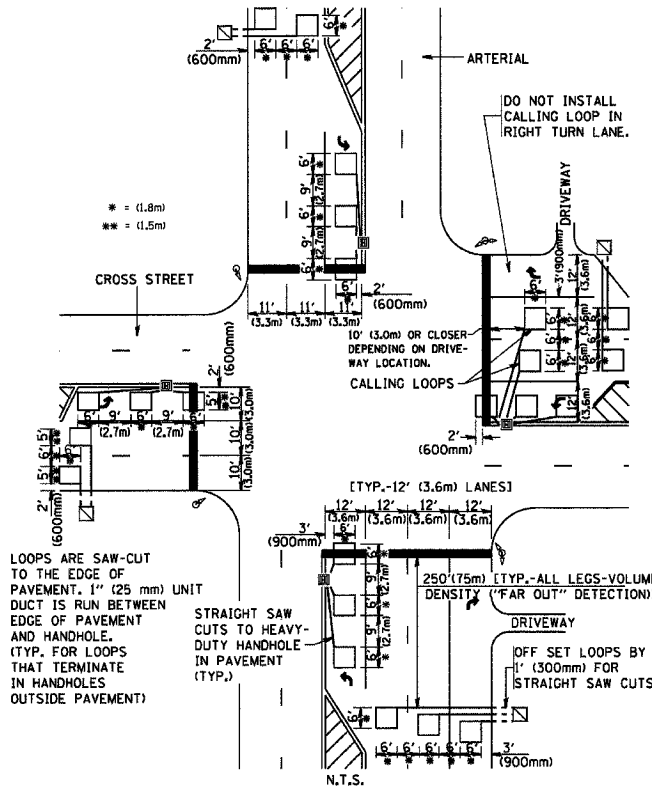


NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

NOTES:

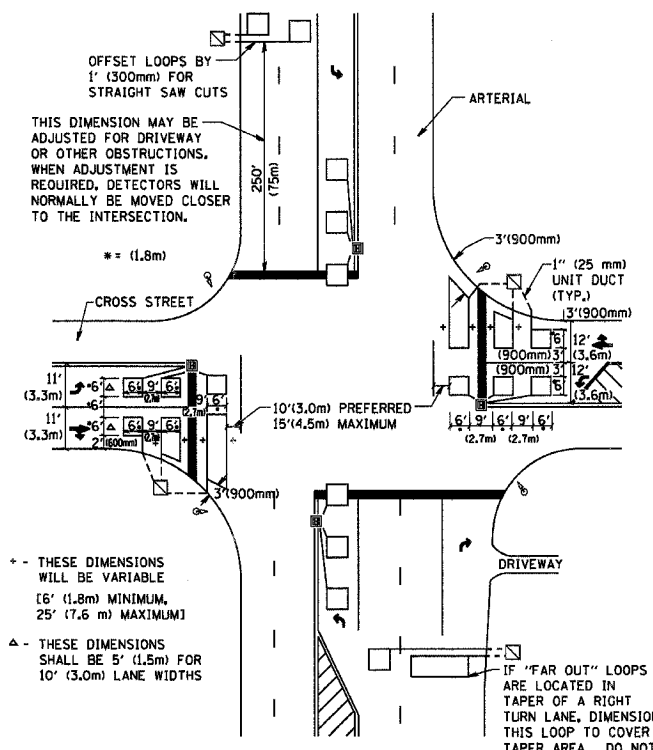
- VEHICLES LOOP DETECTORS
- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
 - * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
 - * EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATELY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
 - * ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
 - * EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
 - * WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
 - * WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-VOLUME DENSITY ("FAR OUT" DETECTION)



DETAIL 1
N.T.S.
LOOPS ARE SAW-CUT TO THE EDGE OF PAVEMENT. 1" (25 mm) UNIT DUCT IS RUN BETWEEN EDGE OF PAVEMENT AND HANDHOLE. (TYP. FOR LOOPS THAT TERMINATE IN HANDHOLES OUTSIDE PAVEMENT)
STRAIGHT SAW CUTS TO HEAVY-DUTY HANDHOLE IN PAVEMENT (TYP.)
OFF SET LOOPS BY 1' (300mm) FOR STRAIGHT SAW CUTS.

ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)



DETAIL 2
N.T.S.
OFF SET LOOPS BY 1' (300mm) FOR STRAIGHT SAW CUTS
THIS DIMENSION MAY BE ADJUSTED FOR DRIVEWAY OR OTHER OBSTRUCTIONS. WHEN ADJUSTMENT IS REQUIRED, DETECTORS WILL NORMALLY BE MOVED CLOSER TO THE INTERSECTION.
* - THESE DIMENSIONS WILL BE VARIABLE [6' (1.8m) MINIMUM, 25' (7.6 m) MAXIMUM]
△ - THESE DIMENSIONS SHALL BE 5' (1.5m) FOR 10' (3.0m) LANE WIDTHS
IF "FAR OUT" LOOPS ARE LOCATED IN TAPER OF A RIGHT TURN LANE, DIMENSION THIS LOOP TO COVER TAPER AREA. DO NOT COVER THE LEFT TURN LANE OR LEFT TURN LANE TAPER.

PLACEMENT OF DETECTORS

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DEMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

NOTE: ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT 1 DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING
NAME	DATE	
		DESIGNED BY DRAWN BY CADD CHECKED BY R.K.F. TS07 REVISION DATE:

PLOT DATE = 2/15/2006
PLOT SCALE = 1/8" = 1'-0"
USER NAME = greghebb