

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(147,148,149)RS-4	EDGAR	23	1
		ILLINOIS	CONTRACT NO. 70714	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
**PROPOSED  
HIGHWAY PLANS**

FOR INDEX OF SHEETS, SEE SHEET NO. 2  
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4 & 5

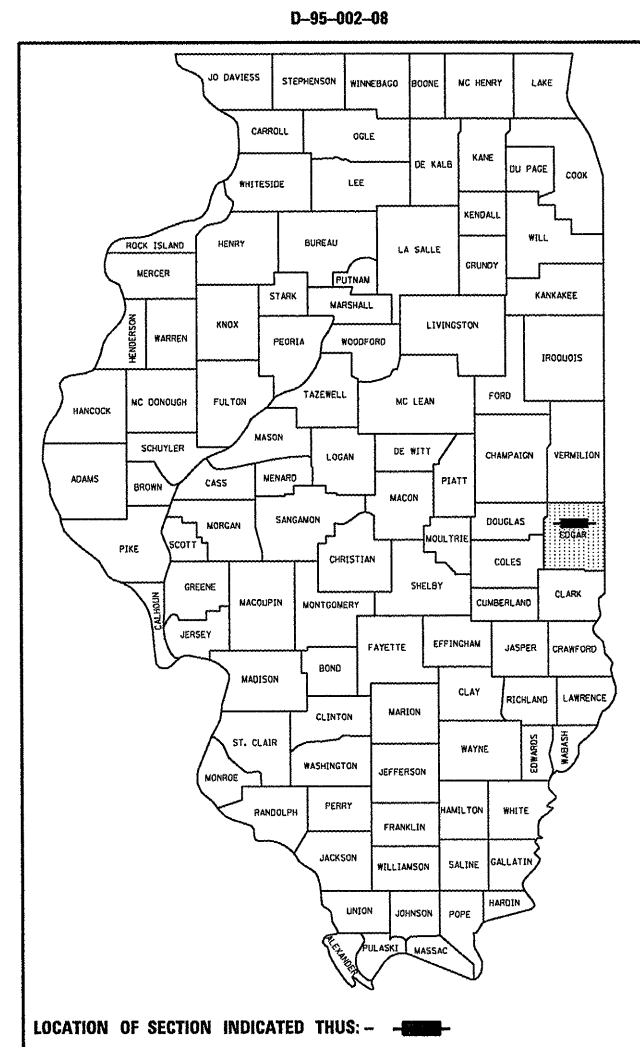
**PAVING OMISSIONS:**

- S.N. 023-0027 - STA. 990+71.00 TO STA. 991+73.00
- S.N. 023-0028 - STA. 1046+26.50 TO STA. 1047+27.50
- S.N. 023-2013 - STA. 1120+32.00 TO STA. 1122+12.00
- S.N. 023-0031 - STA. 1182+01.75 TO STA. 1182+98.25
- RAILROAD : STA. 1281+31.00 TO STA. 1281+43.40
- S.N. 023-0032 - STA. 1338+67.00 TO STA. 1339+83.35
- S.N. 023-0007 - STA. 1522+26.00 TO STA. 1523+04.00
- S.N. 023-0033 - STA. 1579+91.00 TO STA. 1581+49.00
- S.N. 023-9911 (RR UNDERPASS) STA 1650+67.50 TO STA 1651+92.50

**HMA SURFACING (1 1/2" INLAY)**

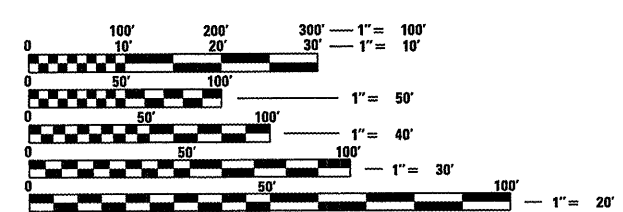
- S.N. 023-8010
- S.N. 026-8011
- S.N. 023-8012
- S.N. 023-8013
- S.N. 023-8014
- S.N. 023-8015
- S.N. 023-8016
- S.N. 023-0033

**F.A.P. ROUTE 323 (U.S. 36)  
SECTION (147,148,149)RS-4  
RESURFACING (SMART)  
IL 49 TO IL 1 (U.S. 150)  
EDGAR COUNTY  
PROJECT  
C-95-002-08**



**CURRENT ADT**  
IL 49 TO FAS 683 = 1,950 (2009)  
FAS 683 TO IL 1 = 1,650 (2009)

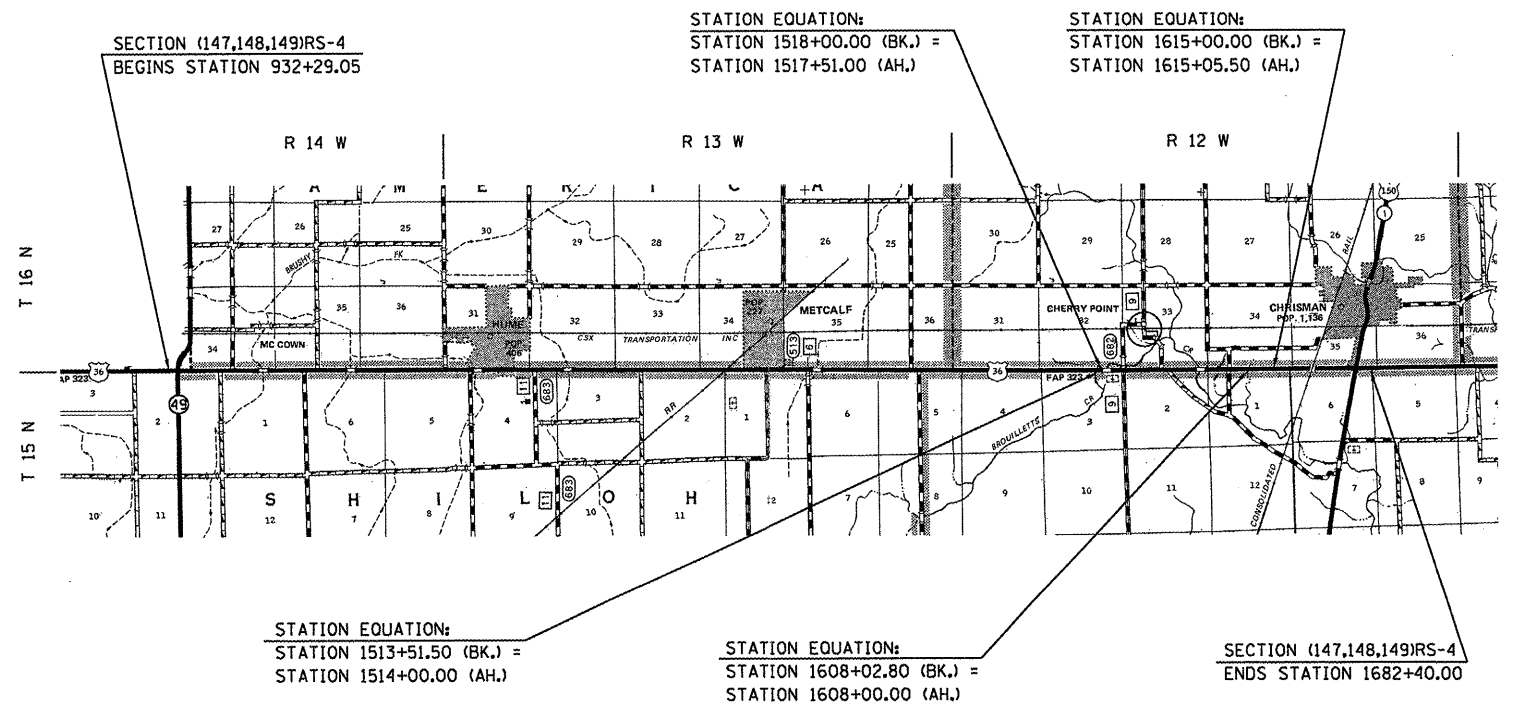
**DESIGN DESIGNATION**  
OTHER PRINCIPAL ARTERIAL



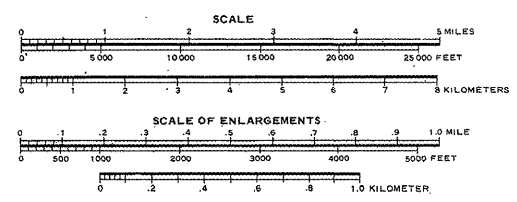
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

**PROJECT ENGINEER: KEVIN TRAPP  
SQUAD LEADER: CHRIS GREESON  
DESIGNER: MATTHEW MURPHY  
CONTRACT NO. 70714**



GROSS LENGTH = 75,008.75 FT. = 14.206 MILES  
NET LENGTH = 74,039.50 FT. = 14.023 MILES



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED 4/9 20 09

*Joseph K. Rowe*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 1, 20 09  
*Charles G. Ingersoll*  
ENGINEER OF DESIGN AND ENVIRONMENT

May 1, 20 09  
*Christine M. Reed*  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS**

## INDEX OF SHEETS

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
1	COVER SHEET
2	INDEX OF SHEETS/ APPLICABLE HIGHWAY STANDARDS
3	GENERAL NOTES
4-5	SUMMARY OF QUANTITIES
6-7	EXISTING TYPICAL CROSS-SECTIONS
8-9	PROPOSED TYPICAL CROSS-SECTIONS
10	PARTIAL DEPTH PATCHING SCHEDULE
11	FULL DEPTH PATCHING SCHEDULE
12	TEMPORARY RAMP, HMA SHOULDERS, AND PAINT PAVEMENT MARKING LINE 4" SCHEDULES
13	PAVEMENT MARKING REMOVAL, BITUMINOUS MATERIALS COVER AND SEAL COATS, SPECIAL AND RUMBLE STRIP SCHEDULES
14	THERMOPLASTIC STRIPING DETAIL U.S. 36 & IL. 49
15-16	THERMOPLASTIC STRIPING DETAIL U.S. 36 & IL. 1
17-20	TYPICAL APPLICATIONS OF PAVEMENT MARKINGS AND MARKERS
21	RUMBLE STRIP DETAIL
22	SURVEY MARKER VAULT DETAIL
23	SURVER MARKER TYPE 1&2 (SPECIAL)

## LIST OF STANDARDS

<u>STANDARD NO.</u>	<u>DESCRIPTION</u>
000001-05	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
442201-03	CLASS C AND D PATCHES
482001-02	HMA SHOULDERS ADJACENT TO FLEXIBLE PAVEMENT
667101-01	PERMANENT SURVEY MARKERS
701006-03	OFF-ROAD OPERATION, 2L, 2W 4.5 m (15') TO 600 mm(24") FROM PAVEMENT EDGE.
701201-03	LANE CLOSURE, 2L, 2W, DAYONLY, FOR SPEEDS ≥ 45 MPH
701301-03	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATION
701306-02	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATION DAY ONLY, FOR SPEEDS ≥ 45 MPH
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATION - DAY ONLY
701901-01	TRAFFIC CONTROL DEVICES
780001-02	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

FILE NAME =	USER NAME = ceerlockjd	DESIGNED - MWM	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INDEX OF SHEETS &amp; LIST OF STANDARDS</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pw\work\p\p\dot\ceerlockjd\0124787\70714-sht-gennote.dgn		DRAWN -	REVISED -			323	(147,148,149)RS-4	Edgar	23	2
PLOT SCALE = 48,0000' / IN.		CHECKED -	REVISED -							
PLOT DATE = 4/9/2009		DATE -	REVISED -		SCALE: N/A	SHEET NO.	OF	SHEETS	STA.	TO STA.
										ILLINOIS FED. AID PROJECT
										CONTRACT NO. 70714

# GENERAL NOTES

G.N.-100  
ENGLISH UNITS OF MEASUREMENT SHALL GOVERN OVER AND SUPERSEDE ANY METRIC UNITS SHOWN IN THIS CONTRACT. WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.

G.N.-107.12  
THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE LOCAL RAILROAD CONTACT IS:  
Mr. Everett Fletcher  
Eastern Illinois Railroad Company  
P O Box 1470  
Decatur, IL 62525  
(217) 424-5980

SPECIAL ATTENTION IS CALLED TO ARTICLE 107.12 REGARDING RAILROAD FLAGGERS. THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE RAILROAD CONTACT PERSON FOR FLAGGERS IS:

Mr. Marvin Abernathy  
Supervisor Maintenance of Way  
Eastern Illinois Railroad Company  
P.O. Box 1132  
Charleston, IL 61920  
217-345-4832 (Office)

G.N.-406

THE QUANTITIES INCLUDED IN THE PLANS FOR HOT-MIX ASPHALT RESURFACING ARE INTENDED TO GIVE THE COVERAGE SHOWN ON THE TYPICAL CROSS SECTIONS. IT IS NOT INTENDED TO INCREASE THE THICKNESS OF THE HOT-MIX ASPHALT MIXTURE IN ORDER TO USE ALL OF THE QUANTITIES INCLUDED IN THE CONTRACT.

G.N.-406H

### MIXTURE REQUIREMENTS

The following mixture requirements are applicable for this project:

Location(s):	US 36	US 36
Mixture Use(s):	SURFACE & HMA SHOULDERS	HMA MIX FOR PATCHING
AC/PG:	PG 64-22	PG 64-22
RAP %: (Max)**	15	25
Design Air Voids:	4.0% @ Ndes=50	4.0% @ Ndes=50
Mixture Composition: (Gradation Mixture)	IL 9.5	IL 9.5
Friction Aggregate:	Mix C	Mix D

G.N.-442B -- PATCHING SCHEDULES

THE PATCHING SCHEDULES INCLUDED IN THE PLANS REPRESENT THE BEST INFORMATION AVAILABLE AT THE TIME OF COMPLETION OF THE PLANS FOR LETTING. VARIATIONS IN LOCATION AND SIZES OF BOTH FULL-DEPTH AND PARTIAL-DEPTH PATCHES MAY OCCUR.

G.N.-667

THE RESIDENT ENGINEER SHALL CONTACT THE PROGRAM DEVELOPMENT CHIEF OF SURVEYS PRIOR TO THE PRE-CONSTRUCTION CONFERENCE FOR INSTRUCTION AS TO SETTING OF TEMPORARY OR PERMANENT TIES FOR CENTERLINE ALIGNMENT CONTROL SURVEY MARKERS (PC'S, PTS, AND P'S). PROJECT IMPLEMENTATION PERSONNEL WILL BE RESPONSIBLE FOR SETTING THESE MARKERS.

G.N.-703A

SHORT TERM PAVEMENT MARKING SHALL BE APPLIED TO THE PAVEMENT AFTER ANY OF THE FOLLOWING: COLD MILLING AND/OR PLACING BITUMINOUS MATERIALS (PRIME COAT), LEVELING BINDER (MACHINE METHOD), BINDER AND SURFACE COURSES. SHORT TERM PAVEMENT MARKING PLACED ON THE SURFACE, SHALL COINCIDE WITH THE FINAL PAVEMENT STRIPING. SHORT TERM PAVEMENT MARKING PLACED PRIOR TO THE SURFACE SHALL COINCIDE WITH THE EXISTING PAVEMENT MARKINGS. USE 4 FEET PER 40 FEET (OR 10% PER STATION).

G.N.-781

RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH STANDARD 781001, AND THE DETAILS SHOWN IN THE PLANS. IF THERE IS ANY DISCREPANCY BETWEEN THE STANDARD AND THE DETAILS IN THE PLANS, THE DETAILS IN THE PLANS SHALL GOVERN. THE FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING THE RAISED REFLECTIVE PAVEMENT MARKERS AND THE RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED MIDWAY IN THE 30 FOOT (9 m) SPACE BETWEEN THE DASHED CENTERLINE STRIPES (WHEN APPLICABLE).

G.N.-1004.01

COARSE AGGREGATE GRADATION CA-10 MAY BE USED WHENEVER COARSE AGGREGATE CA-6 IS SPECIFIED IN THE STANDARD SPECIFICATIONS.

NO COMMITMENTS

FILE NAME =	USER NAME = ceer-lock.jd	DESIGNED - MWM	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL NOTES</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\p\work\p\p\dot\ceer-lock.jd\0124787\70714-shr-gennote.dgn	DRAWN -	REVISED -	323			(147,148,149)RS-4	Edgar	23	3		
PLOT SCALE = 40.0000' / IN.	CHECKED -	REVISED -	CONTRACT NO. 70714								
PLOT DATE = 4/9/2009	DATE -	REVISED -	ILLINOIS FED. AID PROJECT								
						SCALE: N/A	SHEET NO.	OF	SHEETS	STA.	TO STA.

## SUMMARY OF QUANTITIES

LOCATION OF WORK:

EDGAR COUNTY  
RURAL TWO LANE  
ROADWAY  
IMPROVEMENTS  
FAP 323 (US 36)  
STATION 932+29.05  
TO  
STATION 1682+40.00

CONSTRUCTION TYPE CODE:

I000  
100% STATE  
QUANTITY

CODE NO	ITEM	UNIT	QUANTITY
40300602	SEAL COAT AGGREGATE, SPECIAL	TON	329.0
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	23,957.0
40600300	AGGREGATE (PRIME COAT)	TON	349.0
40600895	CONSTRUCTING TEST STRIP	EACH	1.0
40600990	TEMPORARY RAMP	SQ YD	401.0
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	19,545.0
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	239,565.0
44201725	CLASS D PATCHES, TYPE I, 7 INCH	SQ YD	80.0
44201729	CLASS D PATCHES, TYPE II, 7 INCH	SQ YD	393.0
44201783	CLASS D PATCHES, TYPE IV, 11 INCH	SQ YD	50.0
44201803	CLASS D PATCHES, TYPE II, 13 INCH	SQ YD	440.0
44201815	CLASS D PATCHES, TYPE II, 14 INCH	SQ YD	41.0
48101200	AGGREGATE SHOULDERS, TYPE B	TON	2,448.0
48203100	HOT-MIX ASPHALT SHOULDERS	TON	579.0
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4.0
67100100	MOBILIZATION	L SUM	1.0
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1.0
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1.0

FILE NAME =	USER NAME = ceer-lock_jd	DESIGNED - MWM	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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PLOT SCALE = 40,0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 70714					
PLOT DATE = 4/9/2009		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

## SUMMARY OF QUANTITIES

LOCATION OF WORK:

EDGAR COUNTY  
RURAL TWO LANE  
ROADWAY  
IMPROVEMENTS  
FAP 323 (US 36)  
STATION 932+29.05  
TO  
STATION 1682+40.00

CONSTRUCTION TYPE CODE:

I000  
100% STATE  
QUANTITY

<u>CODE NO</u>	<u>ITEM</u>	<u>UNIT</u>	<u>QUANTITY</u>
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	10,178.0
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	3,393.0
* 78000100	THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	590.0
* 78000200	THERMOPLASTIC PAVEMENT MARKING- LINE 4"	FOOT	29,357.0
* 78000400	THERMOPLASTIC PAVEMENT MARKING- LINE 6"	FOOT	1,203.0
* 78000600	THERMOPLASTIC PAVEMENT MARKING- LINE 12"	FOOT	3,639.0
* 78000650	THERMOPLASTIC PAVEMENT MARKING- LINE 24"	FOOT	426.0
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	168,704.0
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	1,263.0
78300100	PAVEMENT MARKING REMOVAL	SQ FT	1,604.0
* 78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	1,263.0
X0301232	SURVEY MARKER VAULT	EACH	15.0
X4032500	BITUMINOUS MATERIALS ( COVER AND SEALCOATS ), SPECIAL	GALLON	9,873.0
XZ193400	SURVEY MARKER, TYPE 2 (SPECIAL)	EACH	5.0
Z0010900	COLD MILLING (SPECIAL)	FOOT	5,765.0
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1.0
Z0055300	RUMBLE STRIP	EACH	3.0
* SPECIALTY ITEMS			

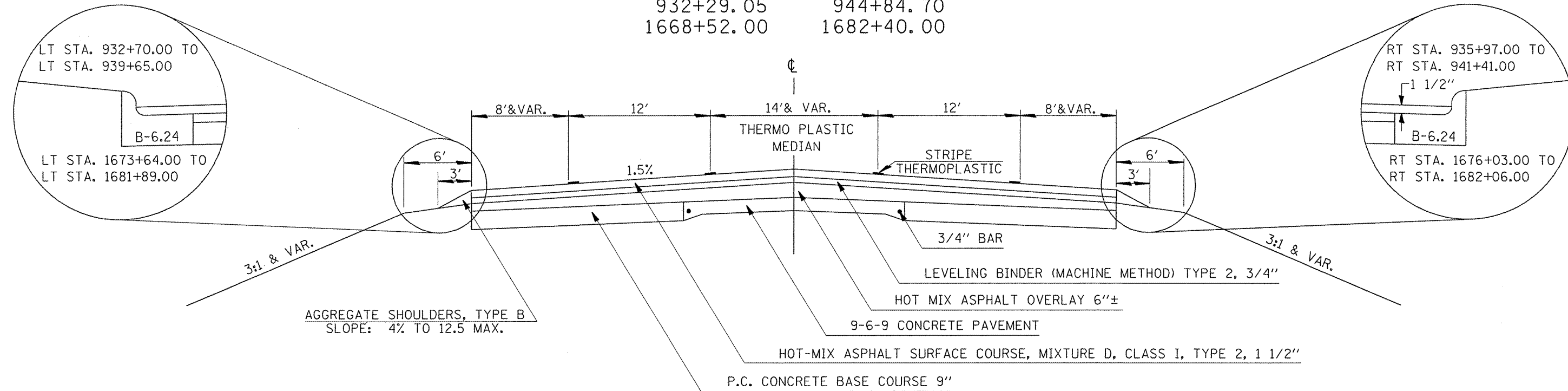
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	PLOT DATE = 4/9/2009	DATE -	REVISED -			SCALE: N/A	SHEET NO. OF SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT	

EXISTING TYPICAL CROSS SECTION ①

STATION TO STATION  
 932+29.05 944+84.70  
 1668+52.00 1682+40.00

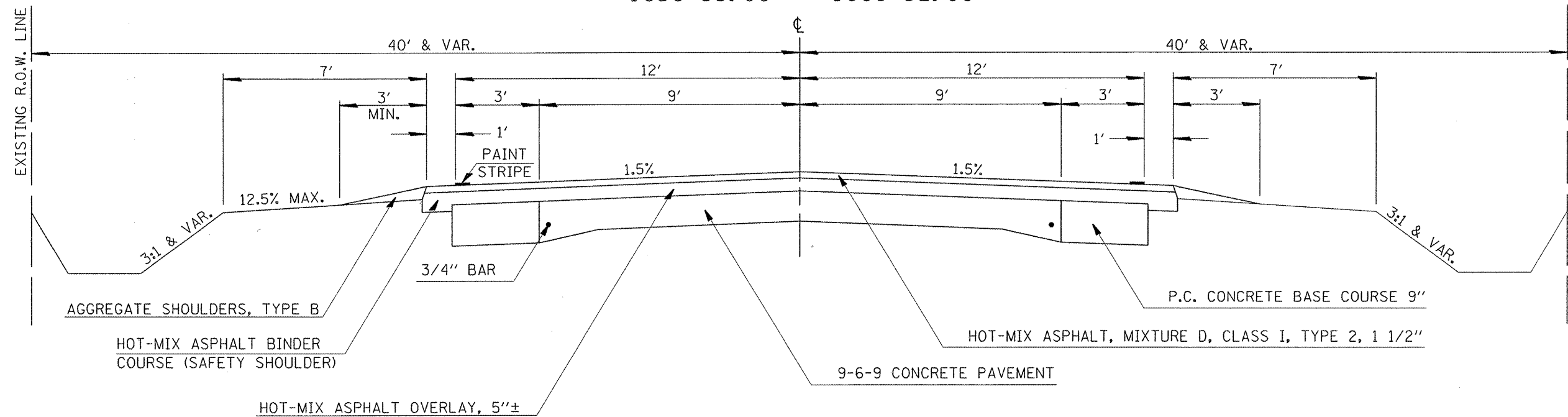
INTERSECTION AREAS ONLY

INTERSECTION AREAS ONLY



EXISTING TYPICAL CROSS SECTION ②

STATION TO STATION  
 944+84.70 1135+25.00  
 1144+54.00 1646+45.00  
 1656+55.00 1668+52.00

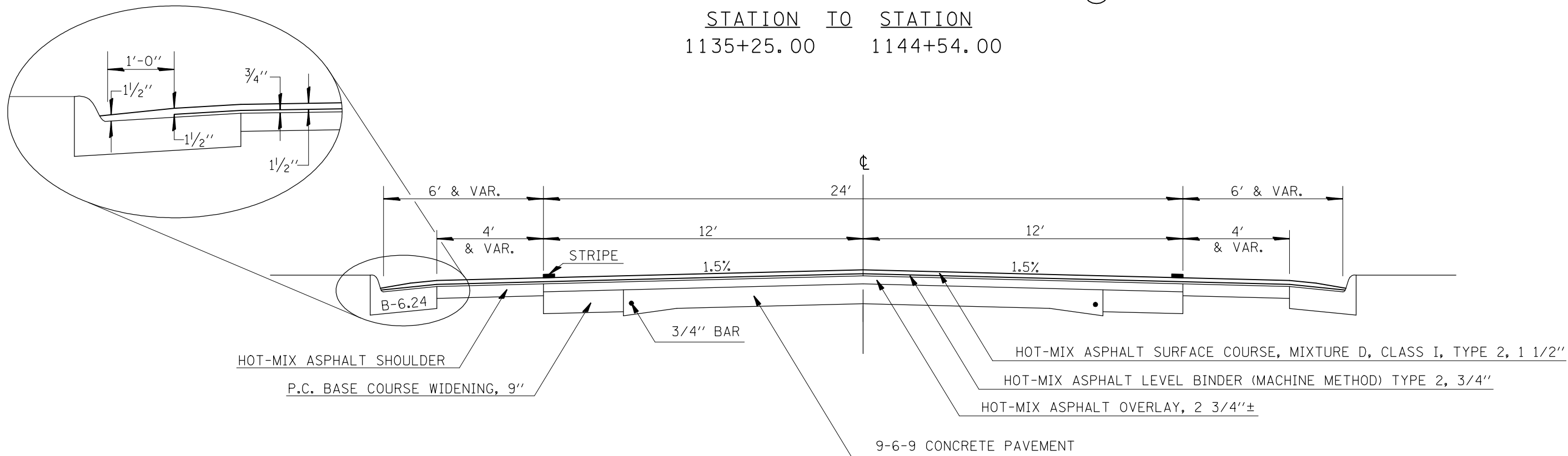


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PLOT DATE = 4/9/2009	DATE -	REVISED -	REVISED -		ILLINOIS FED. AID PROJECT							

VILLAGE OF HUME

EXISTING TYPICAL CROSS SECTION ③

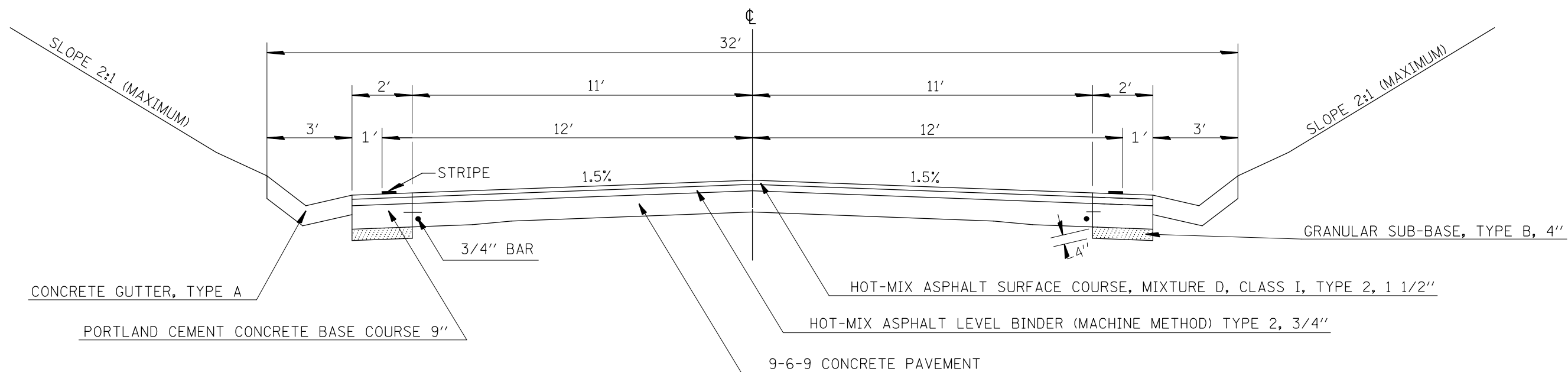
STATION TO STATION  
1135+25.00 1144+54.00



EXISTING TYPICAL CROSS SECTION ④

STATION TO STATION  
1646+45.00 1650+67.50 \*  
\* 1651+92.50 1656+55.00

\* RAILROAD UNDERPASS OMISSION  
STA. 1650+67.50 TO STA. 1651+92.50



FILE NAME =	USER NAME = ceorlockjd	DESIGNED -	REVISED -
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		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

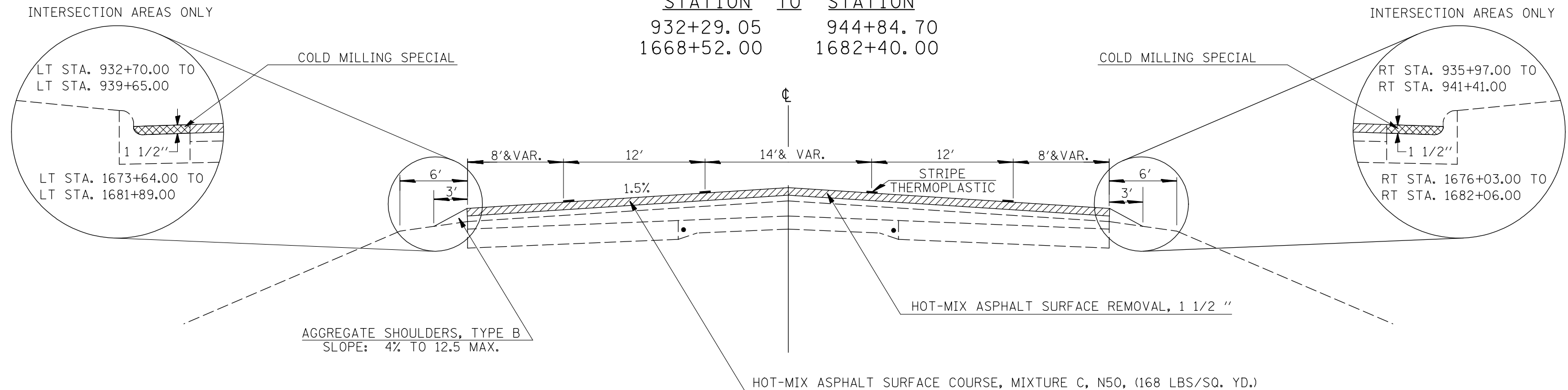
EXISTING TYPICAL CROSS SECTIONS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 70714			ILLINOIS FED. AID PROJECT	

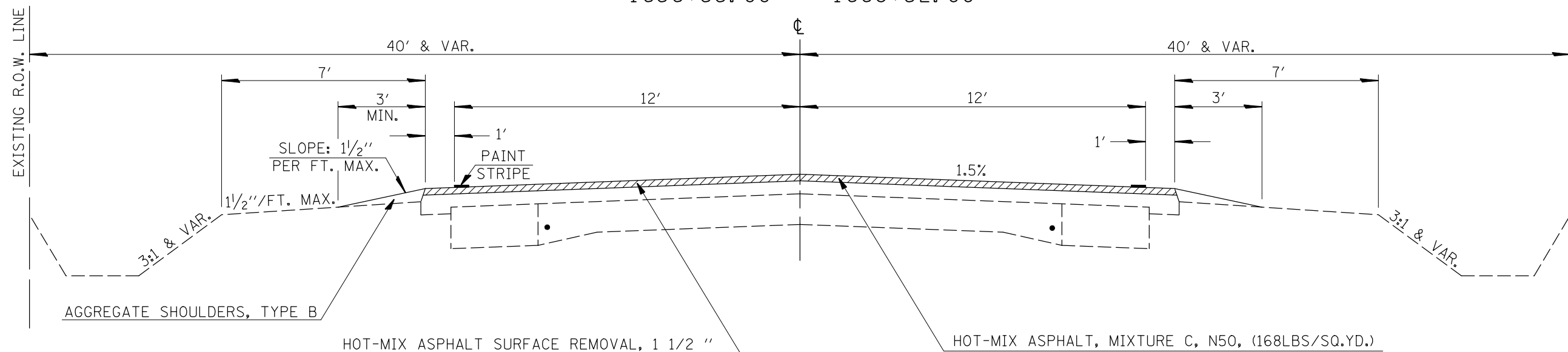
PROPOSED TYPICAL CROSS SECTION ①

STATION TO STATION  
 932+29.05 944+84.70  
 1668+52.00 1682+40.00



PROPOSED TYPICAL CROSS SECTION ②

STATION TO STATION  
 944+84.70 1135+25.00  
 1144+54.00 1646+45.00  
 1656+55.00 1668+52.00



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		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL CROSS SECTIONS

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

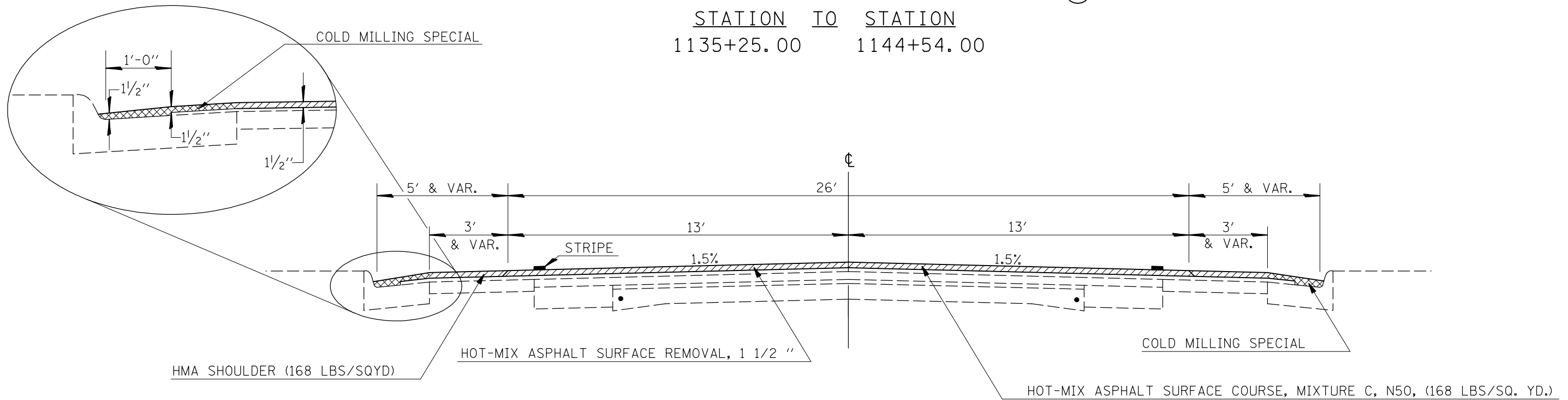
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(147,148,149)RS-4	Edgar	23	8
CONTRACT NO. 70714			ILLINOIS FED. AID PROJECT	



VILLAGE OF HUME

PROPOSED TYPICAL CROSS SECTION ③

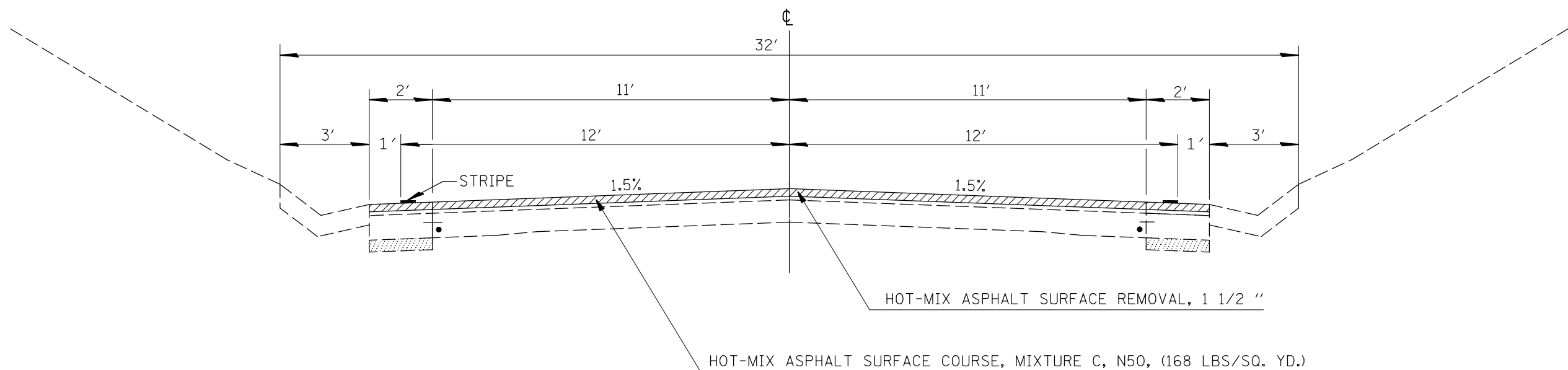
STATION TO STATION  
1135+25.00 1144+54.00



PROPOSED TYPICAL CROSS SECTION ④

STATION TO STATION  
1646+45.00 1650+67.50 \*  
\* 1651+92.50 1656+55.00

\* RAILROAD UNDERPASS OMISSION  
STA. 1650+67.50 TO STA. 1651+92.50



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		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

PROPOSED TYPICAL CROSS SECTIONS			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(147,148,149)RS-4	Edgar	23	9
CONTRACT NO. 70714			ILLINOIS FED. AID PROJECT	

44201803 CLASS D PATCHES, TYPE II, 13 INCH

STATION	DIRECTION	LENGTH (ft)	WIDTH (ft)	TYPE II (sq. yds)
948+13	W.B.	8	13	11.6
953+94	W.B.	10	13	14.4
971+89	E.B.	8	13	11.6
971+89	W.B.	8	13	11.6
975+06	E.B.	6	13	8.7
1006+21	E.B.	6	13	8.7
1014+13	E.B.	6	13	8.7
1014+13	W.B.	6	13	8.7
1016+77	E.B.	6	13	8.7
1016+77	W.B.	6	13	8.7
1048+45	E.B.	6	13	8.7
1048+45	W.B.	6	13	8.7
1085+41	E.B.	6	13	8.7
1085+41	W.B.	6	13	8.7
1086+46	E.B.	6	13	8.7
1106+53	E.B.	6	13	8.7
1106+53	W.B.	6	13	8.7
1121+31	E.B.	6	13	8.7
1121+31	W.B.	6	13	8.7
1122+37	W.B.	10	13	14.4
1122+37	E.B.	8	13	11.6
1125+01	W.B.	10	6	6.7
1138+21	W.B.	10	6	6.7
1139+79	W.B.	10	6	6.7
1154+09	W.B.	8	13	11.6
1154+09	E.B.	6	13	8.7
1227+97	E.B.	6	13	8.7
1254+37	E.B.	6	13	8.7
1254+37	W.B.	6	13	8.7
1264+93	W.B.	6	8	5.3
1280+77	E.B.	6	13	8.7
1280+77	W.B.	6	13	8.7
1286+05	W.B.	6	13	8.7
1298+19	E.B.	6	13	8.7
1298+19	W.B.	6	13	8.7
1329+87	E.B.	6	13	8.7
1329+87	W.B.	6	13	8.7
1344+13	W.B.	6	13	8.7
1361+03	E.B.	10	13	14.4
1361+03	W.B.	10	13	14.4
1375+81	E.B.	6	13	8.7
1375+81	W.B.	6	13	8.7
1386+37	E.B.	6	13	8.7
1386+37	W.B.	6	13	8.7
1407+49	E.B.	6	13	8.7
1407+49	W.B.	6	13	8.7
1655+65	W.B.	8	13	11.6
<b>TOTAL</b>				<b>(sq. yds)</b> 440.0

**SCHEDULE OF QUANTITIES**

44201815 CLASS D PATCHES, TYPE II, 14 INCH

STATION	DIRECTION	LENGTH (ft)	WIDTH (ft)	TYPE II (sq. yds)
942+85	E.B.	6	13	8.7
943+28	W.B.	6	13	8.7
943+38	E.B.	8	13	11.6
943+38	W.B.	8	13	11.6
<b>TOTAL</b>				<b>(sq. yds)</b> 41.0

44201783 CLASS D PATCHES, TYPE IV, 11 INCH

STATION	DIRECTION	LENGTH (ft)	WIDTH (ft)	TYPE IV (sq. yds)
1597+57	E.B.	75	6	50.0
<b>TOTAL</b>				<b>(sq. yds)</b> 50.0

X0301232

SURVEY MARKER VAULT

DESCRIPTION	TYPE	LOCATION	OFFSET	EACH
NEcor NW1/4 2-15-14	Vault	937+71	4.6' RT.	1
SWcor 34-16-14	Vault	945+84	6.7' RT.	1
SEcor SW 1/4 SW 1/4 34-16-14	Vault	958+94	3.9' RT.	1
SE cor SW 1/4 34-16-14	Vault	972+39	2.4' RT.	1
NEcor 1-15-14	Vault	1017+36.4	3.7' RT.	1
SWcor 32-16-13	Vault	1158+52	13.0' RT.	1
SEcor W 1/2 SE 1/4 32-16-13	Vault	1198+48.31	11.4' RT.	1
SEcor 32-16-13	Vault	1211+80.36	0.19' LT.	1
NWcor 2-15-13	Vault	1228+30.3	0.02' LT.	1
SWcor SE 1/4 33-16-13	Vault	1238+65.48	0.37' RT.	1
SEcor SW 33-16-13	Vault	1265+38.36	0.83' RT.	1
NEcor NE 1/4 1-15-13	Vault	1334+38.5	0	1
SWcor SE 1/4 35-16-13	Vault	1345+50	0	1
SEcor 35-16-13	Vault	1372+20	1.0' LT.	1
NWcor NE 1/4 5-15-12	Vault	1404+03	5.1' LT.	1
<b>TOTAL</b>				<b>15</b>

44201715 CLASS D PATCHES, TYPE I, 7 INCH

STATION	DIRECTION	LENGTH (ft)	WIDTH (ft)	TYPE I (sq. yds)
954+99	W.B.	6	5	3.3
958+69	W.B.	6	6	4.0
966+61	E.B.	6	6	4.0
974+53	W.B.	6	6	4.0
996+18	E.B.	6	6	4.0
1000+93	W.B.	6	6	4.0
1008+85	E.B.	6	6	4.0
1027+33	W.B.	6	6	4.0
1027+86	E.B.	6	6	4.0
1064+29	E.B.	6	6	4.0
1074+85	E.B.	6	6	4.0
1095+97	E.B.	6	6	4.0
1264+93	E.B.	6	6	4.0
1286+58	E.B.	6	6	4.0
1296+61	E.B.	6	6	4.0
1349+41	E.B.	6	6	4.0
1349+41	W.B.	6	6	4.0
1354+69	E.B.	6	6	4.0
1359+97	E.B.	6	6	4.0
1381+09	E.B.	6	6	4.0
<b>TOTAL</b>				<b>(sq. yds)</b> 80.0

XZ193400

SURVEY MARKER, TYPE 2 (SPECIAL)

DESCRIPTION	TYPE	LOCATION	EACH
INTERSECTION	DISK	937+86	1
PI	DISK	941+00	1
PT	DISK	951+00	1
POT	DISK	1662+12.51	1
INTERSECTION	DISK	1678+98.0	1
<b>TOTAL</b>			<b>5</b>

# SCHEDULE OF QUANTITIES

## 44201729 CLASS D PATCHES,TYPE II 7 INCH

STATION	DIRECTION	LENGTH (ft)	WIDTH (ft)	REMOVAL (sq. yds)
953+41	E.B.	6	13	8.7
953+41	E.B.	6	13	8.7
963+97	W.B.	15	6	10.0
966+61	W.B.	15	6	10.0
969+78	W.B.	15	6	10.0
977+17	W.B.	8	13	11.6
985+09	W.B.	6	10	6.7
995+65	W.B.	20	6	13.3
1006+21	W.B.	6	13	8.7
1011+49	E.B.	6	13	8.7
1011+49	W.B.	6	13	8.7
1037+89	W.B.	6	8	5.3
1159+33	E.B.	6	8	5.3
1169+89	E.B.	6	13	8.7
1169+89	W.B.	6	13	8.7
1217+41	E.B.	8	6	5.3
1249+09	W.B.	6	13	8.7
1249+09	E.B.	6	13	8.7
1286+05	W.B.	6	13	8.7
1291+33	E.B.	6	13	8.7
1323+01	E.B.	10	6	6.7
1328+29	E.B.	6	13	8.7
<b>TOTAL</b>				<b>(sq. yds)</b> 188.2

## 44201729 CLASS D PATCHES,TYPE II 7 INCH

STATION	DIRECTION	LENGTH (ft)	WIDTH (ft)	REMOVAL (sq. yds)
1363+67	E.B.	15	6	10.0
1365+25	E.B.	6	13	8.7
1365+78	E.B.	20	6	13.3
1370+53	E.B.	6	13	8.7
1370+53	W.B.	6	13	8.7
1396+93	W.B.	6	13	8.7
1470+85	E.B.	6	13	8.7
1470+85	W.B.	6	13	8.7
1473+49	E.B.	10	6	6.7
1475+07	E.B.	10	6	6.7
1486+69	W.B.	6	13	8.7
1497+25	E.B.	10	6	6.7
1502+53	E.B.	6	13	8.7
1502+53	W.B.	6	13	8.7
1550+03	E.B.	6	13	8.7
1550+05	W.B.	6	13	8.7
1565+89	E.B.	6	13	8.7
1565+89	W.B.	6	13	8.7
1602+85	E.B.	10	6	6.7
1660+93	E.B.	6	13	8.7
1660+93	W.B.	6	13	8.7
329+50	N.B.	6	12	8.0
329+50	MEDIAN	6	12	8.0
329+50	S.B.	6	12	8.0
<b>TOTAL</b>				<b>(sq. yds)</b> 204.0

### TABULATION OF CLASS D TYPE II 7 INCH PATCHES

GRAND TOTALS = 393.0  
(sq. yds)

**NOTE: THE CLASS D PATCH DEPTH IS CALCULATED TO THE TOP OF THE EXISTING PCC PAVEMENT.**

# SCHEDULE OF QUANTITIES

**40600990  
TEMPORARY RAMP**

ROUTE	LOCATION	SIZE	SQ. YDS.
U.S. 36	932+29.05	5'x31'	17.22
U.S. 36	990+71.00	5'x26'	14.44
U.S. 36	991+73.00	5'x26'	14.44
U.S. 36	1046+26.50	5'x26'	14.44
U.S. 36	1047+27.50	5'x26'	14.44
U.S. 36	1120+32.00	5'x26'	14.44
U.S. 36	1122+12.00	5'x26'	14.44
U.S. 36	1182+01.75	5'x26'	14.44
U.S. 36	1182+98.25	5'x26'	14.44
U.S. 36	1281+31.00	5'x26'	14.44
U.S. 36	1281+43.40	5'x26'	14.44
U.S. 36	1338+67.00	5'x26'	14.44
U.S. 36	1339+83.35	5'x26'	14.44
U.S. 36	1522+26.00	5'x26'	14.44
U.S. 36	1523+04.00	5'x26'	14.44
U.S. 36	1579+91.00	5'x26'	14.44
U.S. 36	1581+49.00	5'x26'	14.44
U.S. 36	1650+67.50	5'x26'	14.44
U.S. 36	1651+92.50	5'x26'	14.44
U.S. 36	1682+40.00	5'x40'	22.22
IL. 49 (SOUTH LEG)	868+80.00	5'x32'	17.78
IL. 49 (NORTH LEG)	4+30.00	5'x35'	19.44
IL. 1 (SOUTH LEG)	1477+26.00	5'x30'	16.67
IL. 1 (NORTH LEG)	327+50.00	5'x30'	16.67
<b>TOTAL</b>			<b>369.92</b>

**48203100  
HOT MIX ASPHALT SHOULDERS**

LOCATION	LENGTH	WIDTH	SQ. YDS.	TONS
RT. 988+00.00 TO 990+80.75	280.75	8.00	249.6	21.0
LT. 988+00.00 TO 990+80.75	280.75	8.00	249.6	21.0
RT. 991+43.25 TO 994+00.00	256.75	8.00	228.2	19.2
LT. 991+43.25 TO 994+00.00	256.75	8.00	228.2	19.2
RT. 1043+75.00 TO 1046+45.75	270.75	8.00	240.7	20.2
LT. 1043+75.00 TO 1046+45.75	270.75	8.00	240.7	20.2
RT. 1047+08.25 TO 1049+50.00	241.75	8.00	214.9	18.1
LT. 1047+08.25 TO 1049+50.00	241.75	8.00	214.9	18.1
RT. 1116+50.00 TO 1121+25.50	475.50	8.00	422.7	35.5
LT. 1116+50.00 TO 1120+93.50	443.50	8.00	394.2	33.1
RT. 1121+42.5 TO 1125+70.00	427.50	8.00	380.0	31.9
LT. 1121+74.5 TO 1125+70.00	395.50	8.00	351.6	29.5
LT. 1135+25.0 TO LT. 1144+54.0	929.00	5.00	516.1	43.4
RT. 1135+25.0 TO RT. 1144+54.0	929.00	5.00	516.1	43.4
RT. 1180+40.00 TO 1182+78.75	238.75	6.00	159.2	13.4
LT. 1180+40.00 TO 1182+78.75	238.75	6.00	159.2	13.4
RT. 1182+78.75 TO 1184+60.00	181.25	6.00	120.8	10.2
LT. 1182+78.75 TO 1184+60.00	181.25	6.00	120.8	10.2
RT. 1336+90.00 TO 1338+78.00	188.00	8.00	167.1	14.0
LT. 1336+90.00 TO 1338+97.50	207.50	8.00	184.4	15.5
RT. 1339+52.5 TO 1341+60.00	207.50	8.00	184.4	15.5
LT. 1339+72.0 TO 1341+80.00	208.00	8.00	184.9	15.5
RT. 1519+90.00 TO 1522+41.00	251.00	8.00	223.1	18.7
LT. 1519+90.00 TO 1522+41.00	251.00	8.00	223.1	18.7
RT. 1522+89.00 TO 1525+40.00	251.00	8.00	223.1	18.7
LT. 1522+89.00 TO 1525+40.00	251.00	8.00	223.1	18.7
RT. 1576+70.00 TO 1579+85.00	315.00	4.00	140.0	11.8
LT. 1577+00.00 TO 1579+85.00	285.00	4.00	126.7	10.6
<b>TOTAL</b>				<b>579.0</b>

**78001110  
PAINT PAVEMENT MARKING LINE - 4"**

LOCATION	4" WHITE FEET	4" YELLOW FEET		
932+29.05 to 943+29.60 = THERMOPLASTIC				
LT. & RT. 943+29.60 TO 990+71.00	9,482.8	1,185.4		
990+71.00 TO 991+73.00 = OMISSION				
LT. & RT. 991+73.00 TO 1046+26.50	10,907.0	1,363.4		
1046+26.50 TO 1047+27.50 = OMISSION				
LT. & RT. 1047+27.50 TO 1120+32.00	14,609.0	1,826.1		
1120+32.00 TO 1122+12.00 = OMISSION				
LT. & RT. 1122+12.00 TO 1182+01.75	11,979.5	1,497.4		
1182+01.75 TO 1182+98.25 = OMISSION				
LT. & RT. 1182+98.25 TO 1281+31.00	19,665.5	2,458.2		
1281+31.00 TO 1281+43.40 = OMISSION				
LT. & RT. 1281+43.40 TO 1338+67.00	11,447.2	1,430.9		
1338+67.00 TO 1339+83.35 = OMISSION				
LT. & RT. 1339+83.35 TO 1518+02.80 (BK) = 1517+51.00 (AH)	35,638.9	4,454.9		
LT. & RT. 1517+51.00 (AH) TO 1522+26.00	950.0	118.8		
1522+26.00 TO 1523+04.00 = OMISSION				
LT. & RT. 1523+04.00 TO 1579+91.00	11,374.0	1,421.8		
1579+91.00 TO 1581+49.00 = OMISSION				
LT. & RT. 1581+49.00 TO 1608+02.80 (BK) = 1608+00.00 (AH)	5,307.6	663.5		
LT. & RT. 1608+00.00 (AH) TO 1615+00 (BK) = 1615+05.50 (AH)	1,400.0	175.0		
LT. & RT. 1615+05.50 (AH) TO 1650+67.50	7,124.0	890.5		
1650+67.50 TO 1651+92.50 = OMISSION				
LT. & RT. 1651+92.50 TO 1670+86.00	3,787.0	473.4		
1670+86.00 TO 1682+40.00 = THERMOPLASTIC				
NO PASSING ZONES				
W.B. 943+29.60 TO 944+29.60		100.0		
E.B. 1133+37.00 TO 1139+90.00		653.0		
WB 1143+85.00 TO 1149+66.00		581.0		
WB & EB 1277+37.00 TO 12781+31.00		788.0		
WB & EB 1281+43.00 TO 1285+30.00		774.0		
EB 1636+20.00 TO 1656+70.00		2,050.0		
WB 1646+60.00 TO 1663+75.00		1,715.0		
EB 1666+75.00 TO 1670+86.00		411.0		
<b>TOTALS</b>		<b>143,672.5</b>	<b>25,031.3</b>	<b>168,703.8</b>

# SCHEDULE OF QUANTITIES

78300100

**PAVEMENT MARKING REMOVAL**

LOCATION	SQ. FT.
<b>MAINLINE U.S. 36 (INTERSECTION U.S. 36 &amp; IL. 1)</b>	
LT. & RT. STA. 1682+40 TO 1687+78.6	
<b>WHITE EOP LINES</b>	359.1
1682+40 TO 1687+78.6	
<b>MEDIAN DOUBLE YELLOW LINES</b>	718.1
1682+40 TO 1687+78.6	
<b>EXISTING DIAGANOLS</b>	166.0
<b>IL. 1 (SOUTH LEG)</b>	
LT. & RT. 1475+85.8 TO 1477+26.0	
<b>WHITE EOP LINES</b>	93.5
1475+85.8 TO 1477+26.0	
<b>MEDIAN DOUBLE YELLOW LINES</b>	186.9
1475+85.8 TO 1477+26.0	
<b>EXISTING DIAGANOLS</b>	16.0
<b>IL. 1 (NORTH LEG)</b>	
327+17.8 TO 327+50	
<b>WHITE EOP LINES</b>	21.5
327+17.8 TO 327+50	
<b>MEDIAN DOUBLE YELLOW LINES</b>	42.9
<b>TOTAL</b>	<b>1,604.0</b>

**NOTE:**  
 THE PAVEMENT MARKING REMOVAL QUANTITY IS INTENDED TO REMOVE THE EXISTING PAVEMENT MARKINGS THAT ARE BEYOND THE RESURFACING LIMITS OF THE JOB. QUANTITIES FOR NEW THERMO-PLASTIC PAVEMENT MARKINGS HAVE BEEN INCLUDED FOR THE ABOVE AREAS.

Z0055300

**RUMBLE STRIPS**

LOCATION	EACH
<b>E.B. U.S. 36 &amp; IL. 1</b>	
WEST OF INTERSECTION	
SEE CADD STANDARD FOR LOCATIONS	
<b>TOTAL</b>	<b>3.0</b>

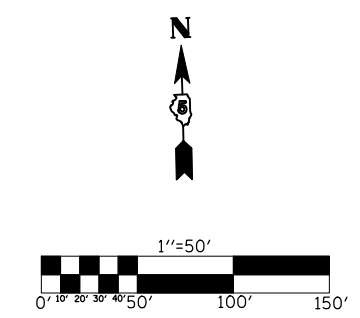
X4032500

**BITUMINOUS MATERIALS (COVER & SEAL COATS) SPECIAL**

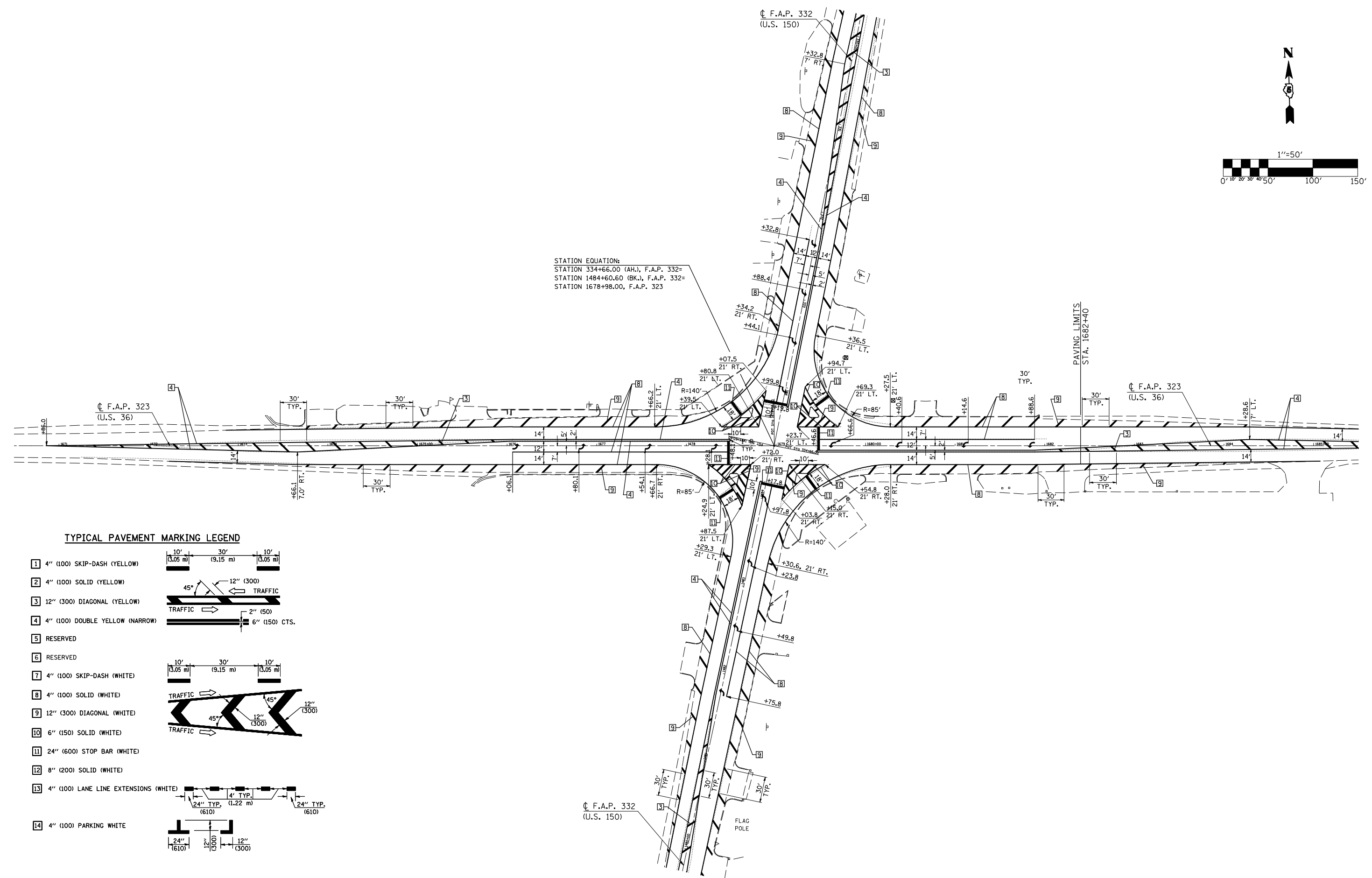
LOCATION	OFFSET	WIDTH	GALLONS
LT. & RT. 932+29.05 TO 944+84.70	9'	2'	167.42
LT. & RT. 944+84.70 TO 990+71.00	9'	2'	611.51
990+71.00 TO 991+73.00		STRUCTURE OMISSION	
LT. & RT. 991+73.00 TO 1046+26.50	9'	2'	727.13
1046+26.50 TO 1047+27.50		STRUCTURE OMISSION	
LT. & RT. 1047+27.50 TO 1120+32.00	9'	2'	973.93
1120+32.00 TO 1122+12.00		STRUCTURE OMISSION	
LT. & RT. 1122+12.00 TO 1135+25.00	9'	2'	175.07
LT. & RT. 1135+25.00 TO 1144+54.00	9'	2'	123.87
LT. & RT. 1144+54.00 TO 1182+01.75	9'	2'	499.70
1182+01.75 TO 1182+98.25		STRUCTURE OMISSION	
LT. & RT. 1182+98.25 TO 1281+31.00	9'	2'	1,311.03
1281+31.00 TO 1281+43.40		RAILROAD OMISSION	
LT. & RT. 1281+43.40 TO 1338+67.00	9'	2'	763.15
1338+67.00 TO 1339+83.85		STRUCTURE OMISSION	
LT. & RT. 1339+83.85 TO 1522+26.00	9'	2'	2,432.86
1522+26.00 TO 1523+04.00		STRUCTURE OMISSION	
LT. & RT. 1523+04.00 TO 1579+91.00	9'	2'	758.27
1579+91.00 TO 1581+49.00		STRUCTURE OMISSION	
LT. & RT. 1581+49.00 TO 1646+45.00	9	2	866.13
LT. & RT. 1646+45.00 TO 1650+67.50	11'	2'	56.33
1650+67.50 TO 1651+92.50		R.R. UNDERPASS OMISSION	
LT. & RT. 1651+92.50 TO 1656+55.00	11'	2'	61.67
LT. & RT. 1656+55.00 TO 1668+52.00	9'	2'	159.60
LT. & RT. 1668+52.00 TO 1682+40.00	9'	2'	185.07
			<b>9,872.74</b>

ALL OFFSETS SHOULD BE VERIFIED IN FIELD





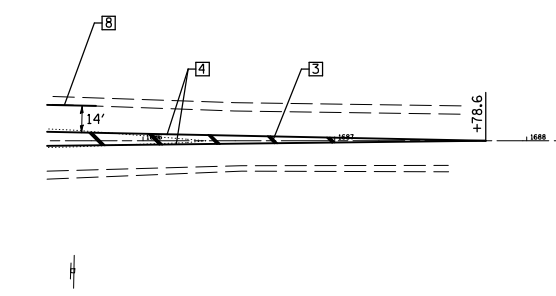
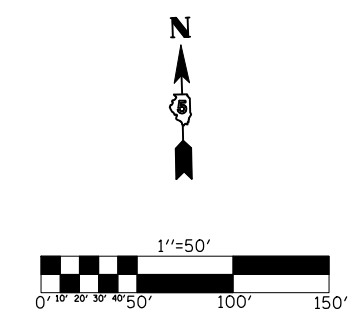
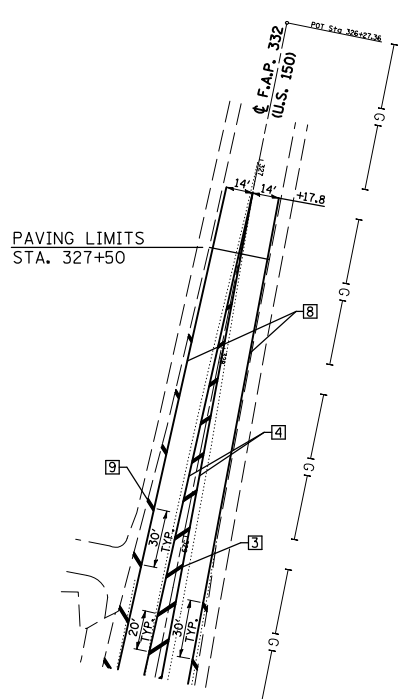
STATION EQUATION:  
 STATION 334+66.00 (AH.), F.A.P. 332=  
 STATION 1484+60.60 (BK.), F.A.P. 332=  
 STATION 1678+98.00, F.A.P. 323



**TYPICAL PAVEMENT MARKING LEGEND**

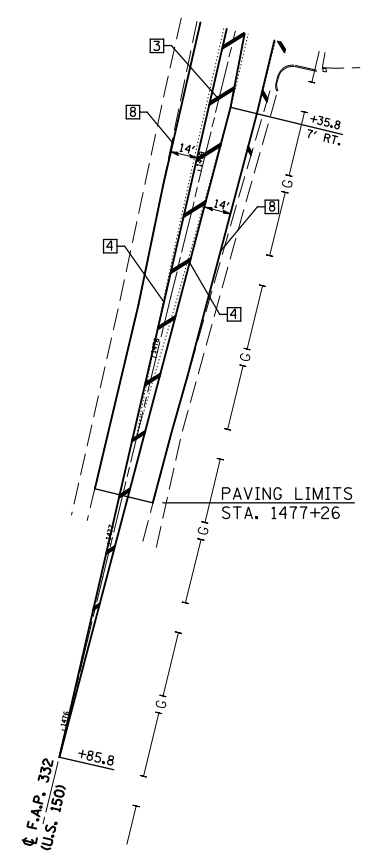
- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 RESERVED
- 6 RESERVED
- 7 4" (100) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) LANE LINE EXTENSIONS (WHITE)
- 14 4" (100) PARKING WHITE

FILE NAME = c:\pw\work\p\WIDOT\KEYSRB\d0124768\d570714-shd-striping.dgn	USER NAME = keyarb	DESIGNED - MWM	REVISED -	<b>STATE OF ILLINOIS          DEPARTMENT OF TRANSPORTATION</b>	<b>STRIPING DETAIL FOR          INTERSECTION OF US 36 AND US 150</b>			F.A.P. RTE. 323	SECTION (147,148,149)RS-4	COUNTY Edgar	TOTAL SHEETS 23	SHEET NO. 15
	PLOT SCALE = 100.0000' / IN.	CHECKED -	DATE -		REVISED -	SCALE: 1" = 50'	SHEET NO. 2 OF 3 SHEETS	STA.	TO STA.	CONTRACT NO. 70714 ILLINOIS FED. AID PROJECT		



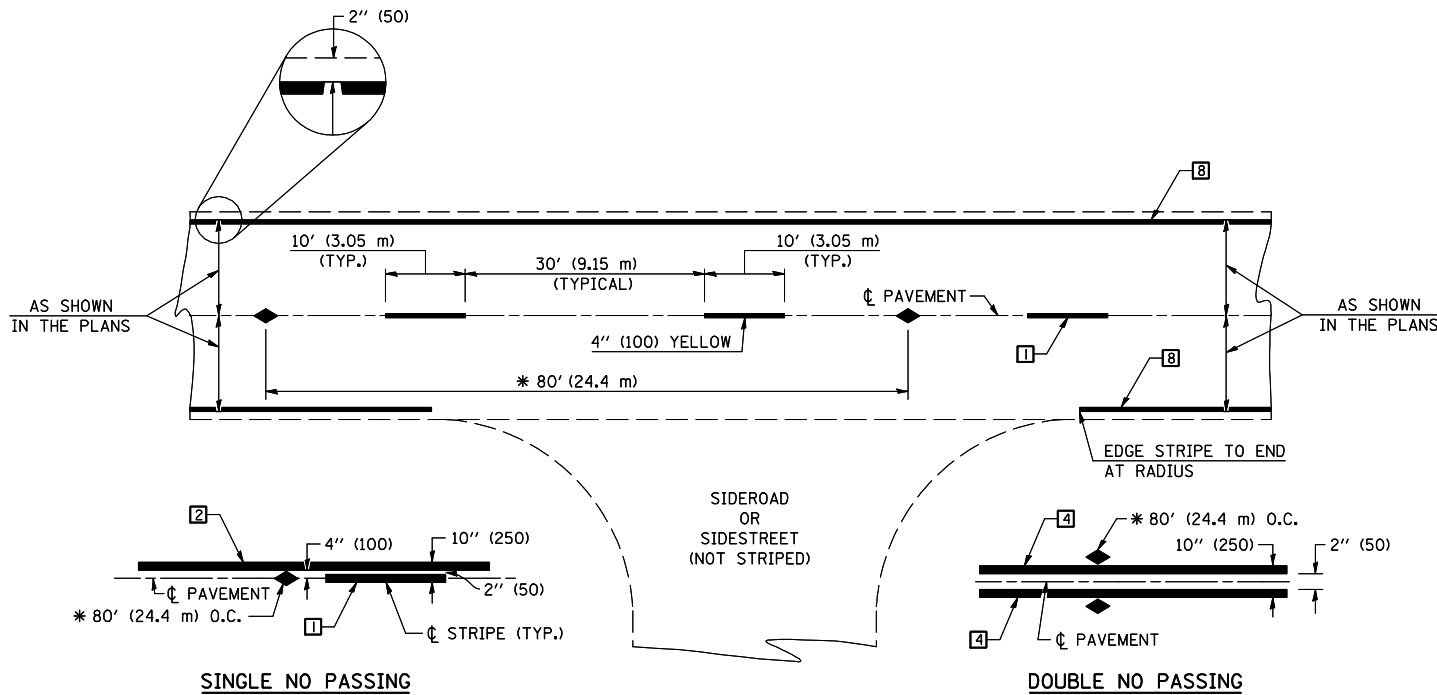
**TYPICAL PAVEMENT MARKING LEGEND**

- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 RESERVED
- 6 RESERVED
- 7 4" (100) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) LANE LINE EXTENSIONS (WHITE)
- 14 4" (100) PARKING WHITE



FILE NAME = c:\pw\work\p\dot\cearlockjd\d0124768\d070714-sht-striping.dgn	USER NAME = ceerlockjd	DESIGNED - MWM	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>STRIPING DETAIL FOR INTERSECTION OF US 36 &amp; US 150</b>			F.A.P. RTE. 323	SECTION (147,148,149)RS-4	COUNTY Edgar	TOTAL SHEETS 23	SHEET NO. 16
	PLOT SCALE = 100.0000' / IN.	CHECKED -	REVISED -		SCALE: 1" = 50'	SHEET NO. 3 OF 3 SHEETS	STA. TO STA.	CONTRACT NO. 70714				
PLOT DATE = 4/9/2009	DATE -	REVISED -	REVISED -	ILLINOIS FED. AID PROJECT								





\* REDUCE TO 40' (12.2 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEEDS OF 45 mph (70 km/h) OR LESS.

**TWO LANE/TWO WAY**

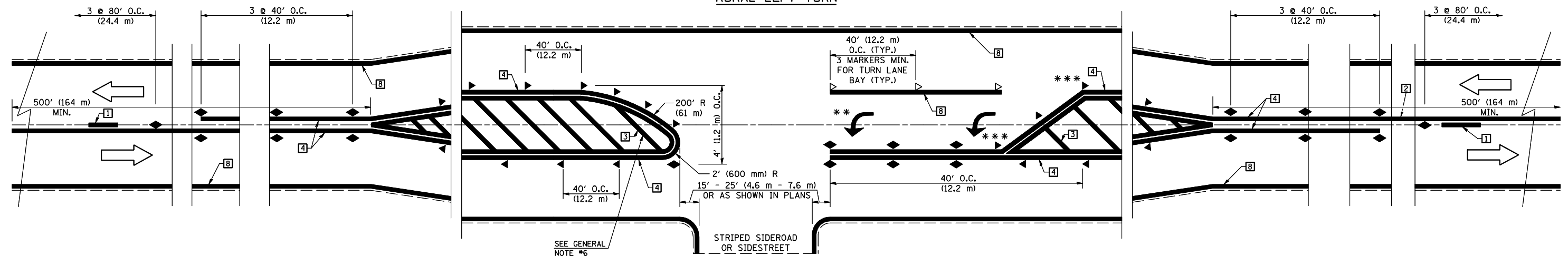
**TYPICAL PAVEMENT MARKING LEGEND**

- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 RESERVED
- 6 RESERVED
- 7 4" (100) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) LANE LINE EXTENSIONS (WHITE)
- 14 4" (100) PARKING WHITE

**TYPICAL PAVEMENT MARKERS LEGEND**

- ◆ TWO-WAY AMBER MARKER
- ▶ ONE-WAY AMBER MARKER
- ▷ ONE-WAY CRYSTAL MARKER

**RURAL LEFT TURN**



\*\*\* REDUCE SPACING IF NECESSARY TO ASSURE MARKERS AT CORNER POINTS.

\*\* TURN ARROWS SHALL BE PLACED AS SHOWN ON SHEET #2.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = ceorlockjd	DESIGNED -	REVISED - 11/06
ct:\pw\work\p\dot\ceorlockjd\0124787\70714-sht-details.dgn		DRAWN -	REVISED -
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		DATE -	REVISED -

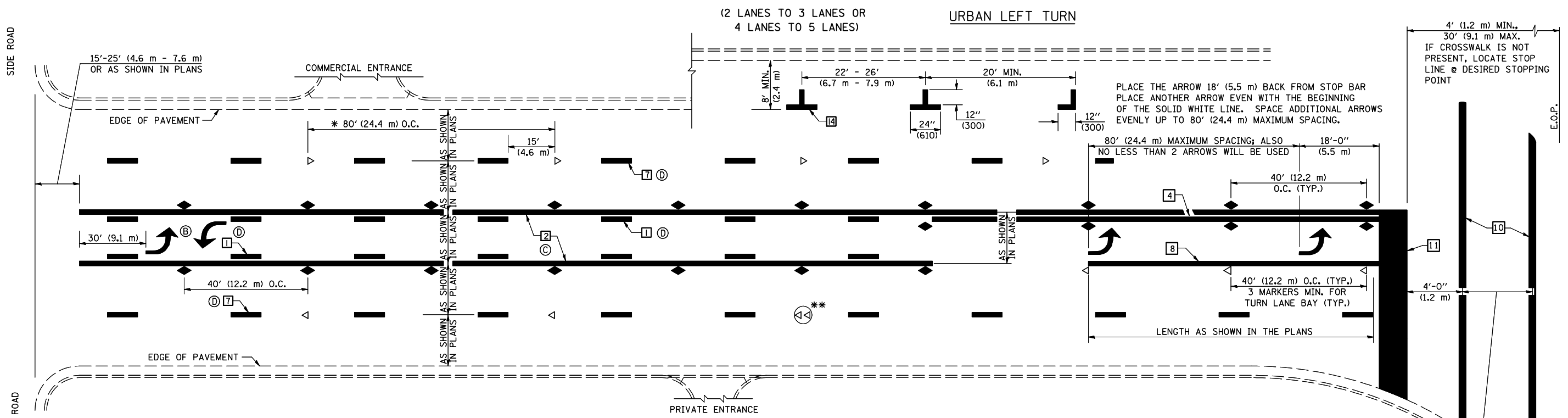
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND MARKERS  
(RURAL & URBAN APPLICATIONS)**

SCALE: SHEET NO. 1 OF 4 SHEETS STA. TO STA.

**DISTRICT 5 DETAIL NO. 7800AAA**

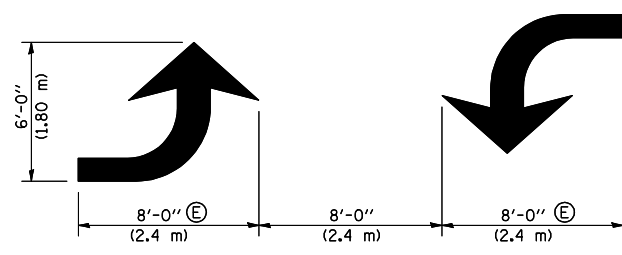
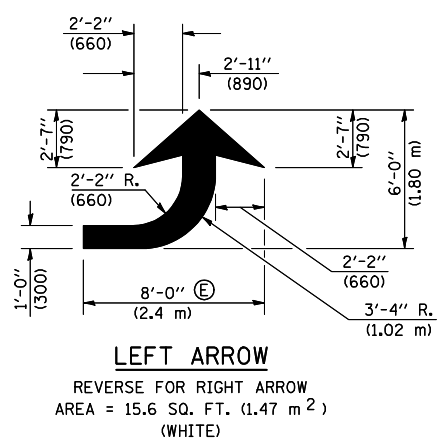
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(147,148,149)RS-4	Edgar	23	17
CONTRACT NO. 70714				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



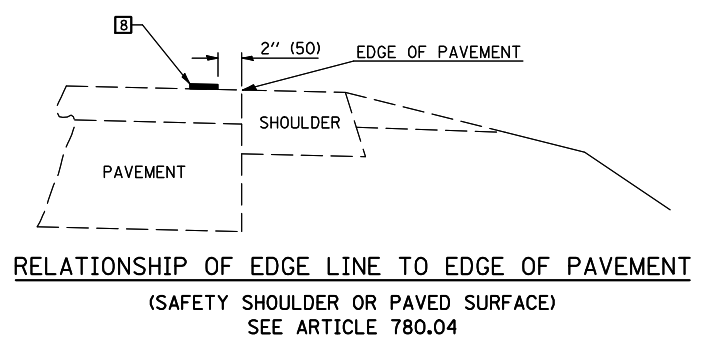
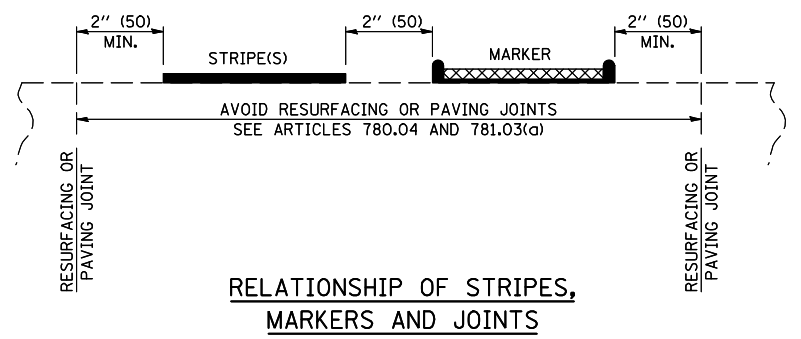
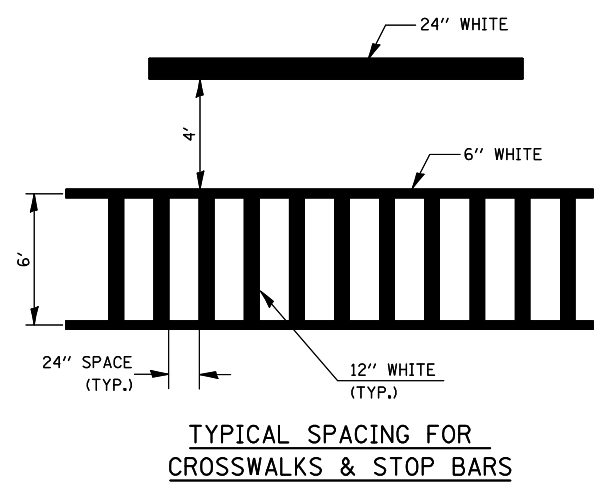
\* REDUCE TO 40 FEET (12.2 METERS) ON CENTER ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.

\*\* DOUBLE LANE LINE MARKERS SHALL BE SPECIFIED AND SPACED AS SHOWN IN HIGHWAY STANDARD 781001 FOR MULTI-LANE DIVIDED AND UNDIVIDED HIGHWAYS.

- GENERAL NOTES:**
- ⓑ TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE.
  - ⓒ THE SOLID YELLOW PAVEMENT MARKINGS [2] SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE OR BOTH ENDS WOULD INCLUDE STOP BARS.
  - ⓓ THE SKIP-DASH PAVEMENT MARKINGS [1] OR [7] SHOULD BE CENTERED BETWEEN BOTH ENDS OF EACH CITY BLOCK AND SHALL BE PLACED SO THEY LINE UP ACROSS FROM EACH OTHER. SEE EXAMPLE ON SHEET 2 OF 3.
  - ⓔ USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE LAST PAGE OF SECTION 780x FOR SYMBOLS TABLE)



**BLOOMINGTON-NORMAL CITY LIMITS ONLY**



Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

**DISTRICT 5 DETAIL NO. 7800AAA**

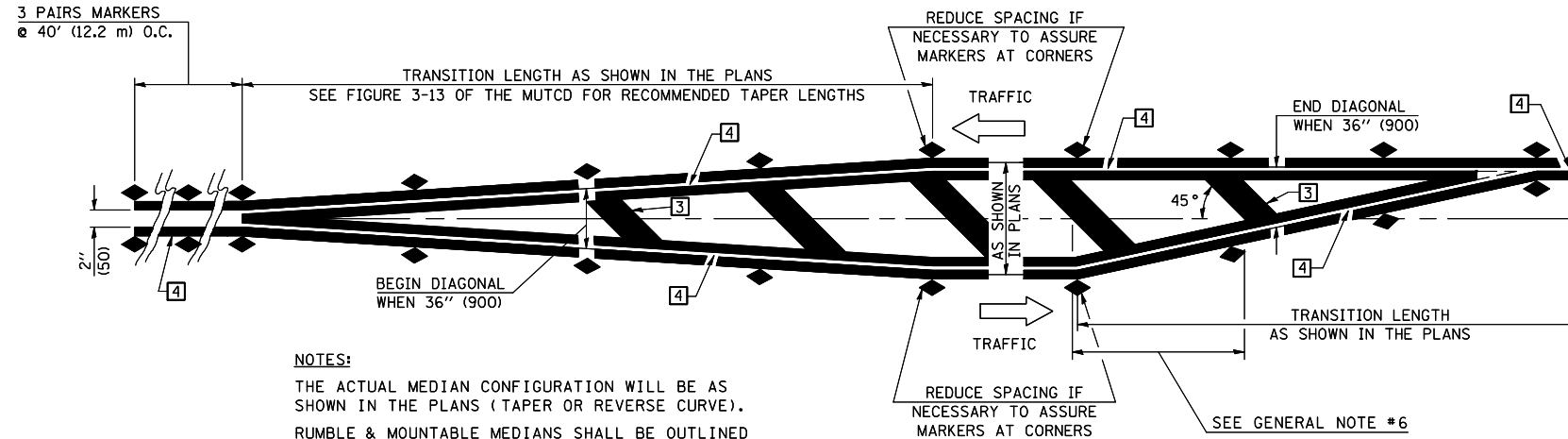
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	PLOT SCALE = 40.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 4/9/2009	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND MARKERS  
 (RURAL & URBAN APPLICATIONS)**

SCALE: SHEET NO. 2 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(147,148,149)RS-4	Edgar	23	18
CONTRACT NO. 70714				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

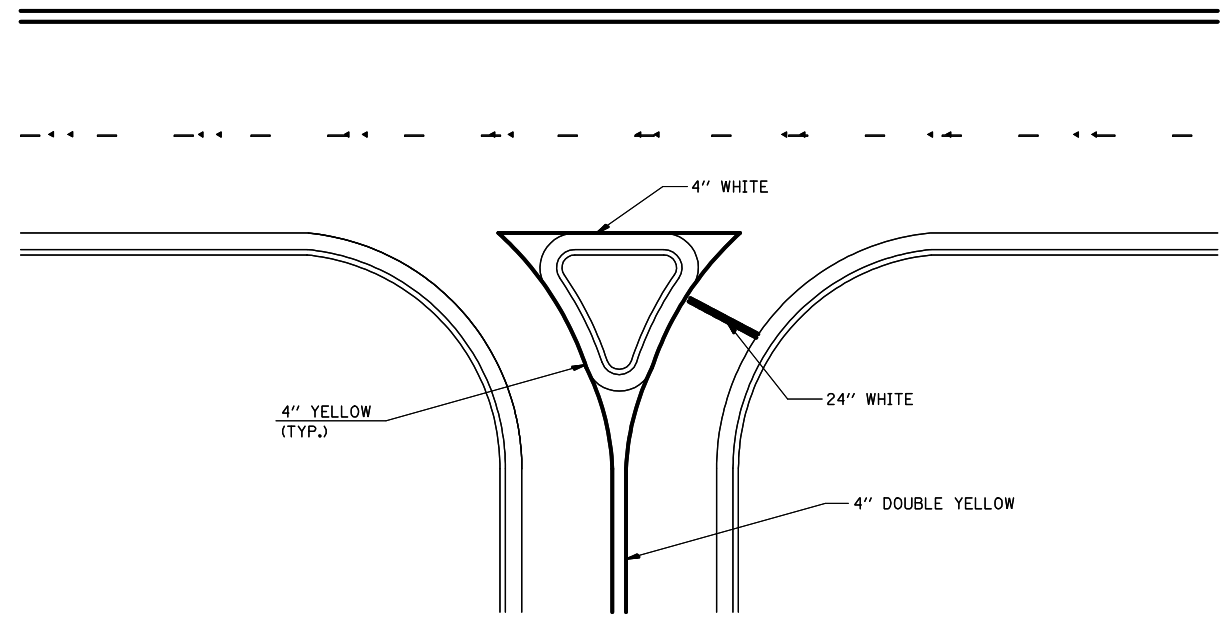


**NOTES:**  
 THE ACTUAL MEDIAN CONFIGURATION WILL BE AS SHOWN IN THE PLANS (TAPER OR REVERSE CURVE).  
 RUMBLE & MOUNTABLE MEDIANS SHALL BE OUTLINED WITH [2].

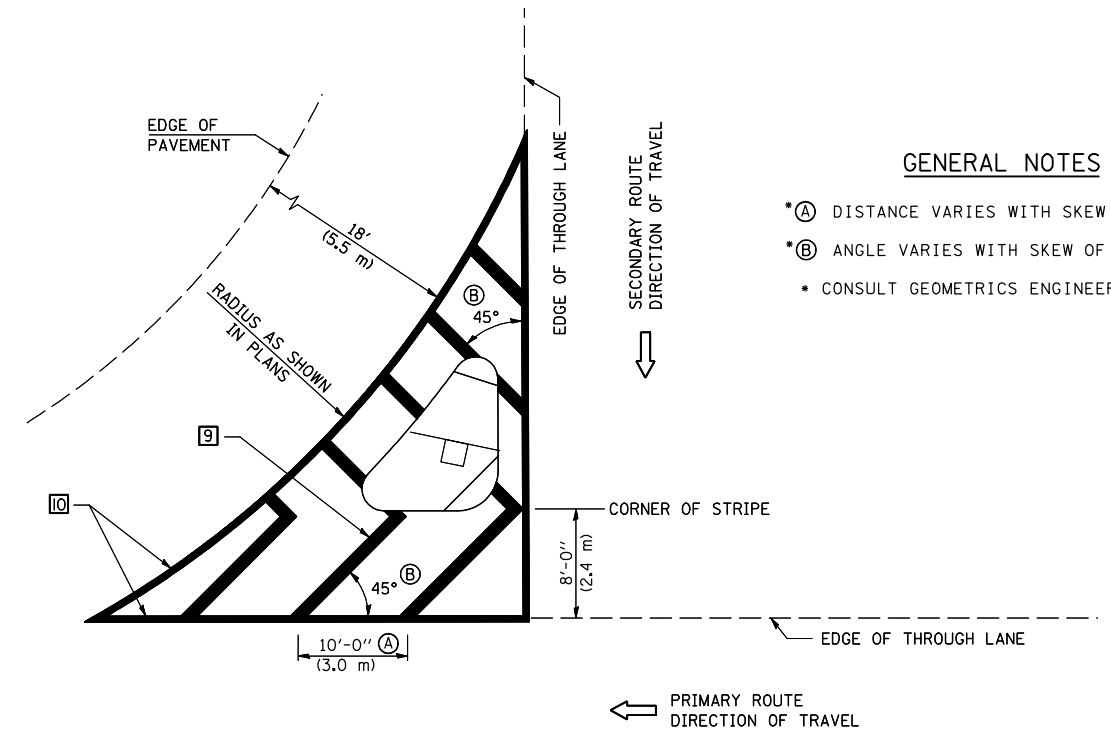
**TYPICAL MEDIAN TRANSITIONS**

**GENERAL NOTES**

1. WHEN MEDIANS ARE PRESENT, PAVEMENT MARKINGS ARE TO BE PLACED ADJACENT TO MEDIANS.
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. A STRIPING KEY IS AVAILABLE ELSEWHERE AND SHALL BE SHOWN WHERE THE QUANTITIES ARE LISTED.
5. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
6. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING,  
 < 30 MPH USE 15' (< 50 km/h USE 4.5 m)  
 30-45 MPH USE 20' (50-75 km/h USE 6.0 m)  
 > 45 MPH USE 30' (> 75 km/h USE 9.0 m)



**RIGHT IN - RIGHT OUT ACCESS**



**GENERAL NOTES**

- \*A DISTANCE VARIES WITH SKEW OF INTERSECTION.
- \*B ANGLE VARIES WITH SKEW OF INTERSECTION.
- CONSULT GEOMETRICS ENGINEER

**ISLAND**

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

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	PLOT DATE = 4/9/2009	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND MARKERS  
 (RURAL & URBAN APPLICATIONS)**

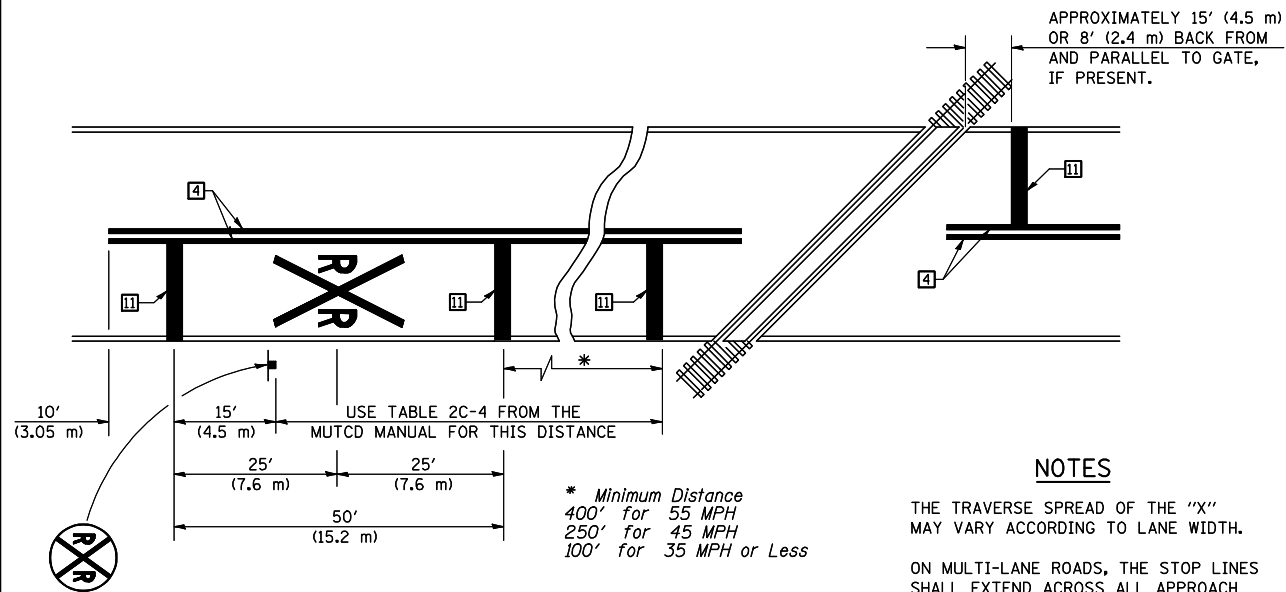
SCALE: SHEET NO. 3 OF 4 SHEETS STA. TO STA.

**DISTRICT 5 DETAIL NO. 7800AAA**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(147,148,149)RS-4	Edgar	23	19
CONTRACT NO. 70714				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

RAILROAD CROSSING WITH INTERCONNECT ONLY

RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING

NOTES

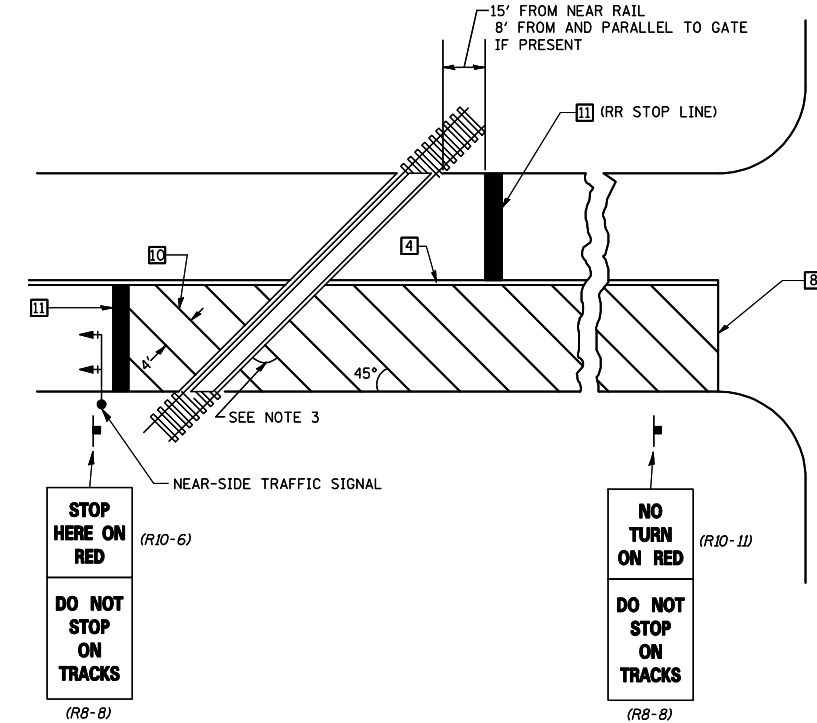
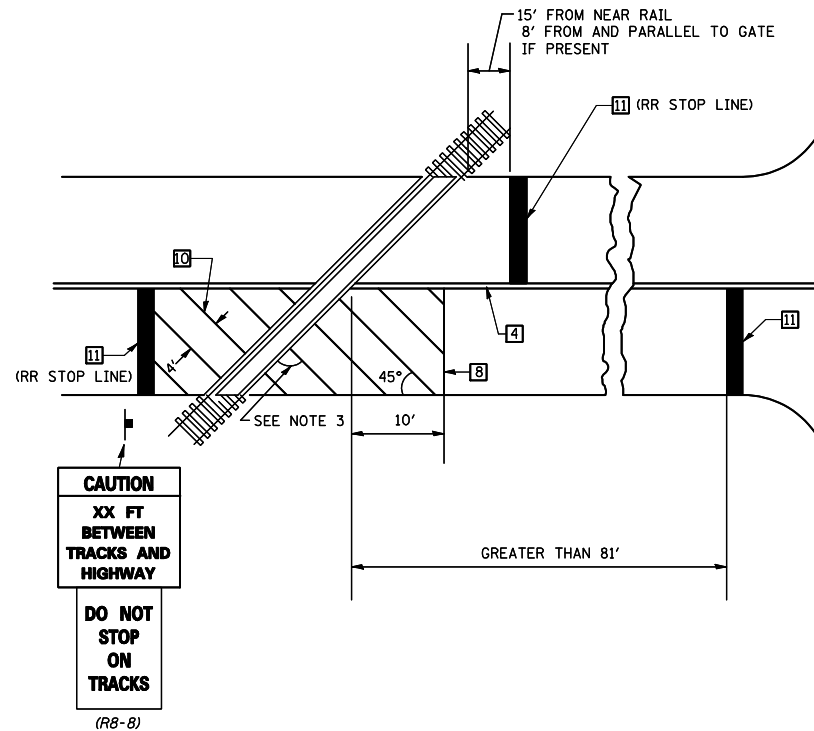
APPROXIMATELY 15' (4.5 m) OR 8' (2.4 m) BACK FROM AND PARALLEL TO GATE, IF PRESENT.

THE TRAVERSE SPREAD OF THE "X" MAY VARY ACCORDING TO LANE WIDTH.

ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE RXR SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN EACH LANE.

WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B OF THE MUTCD.

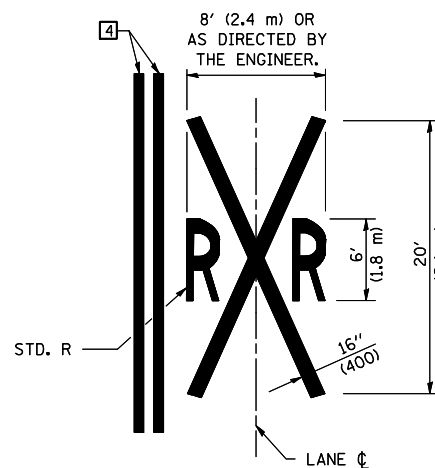
\* Minimum Distance  
400' for 55 MPH  
250' for 45 MPH  
100' for 35 MPH or Less



SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING

GENERAL NOTES

- SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
- EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED.
- WHERE THE ANGLE BETWEEN THE DIAGONAL PAVEMENT MARKINGS AND THE TRACK WOULD BE LESS THAN 20°, THE PAVEMENT MARKINGS SHOULD BE PLACED IN THE OPPOSITE DIRECTION FROM THAT SHOWN.



Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

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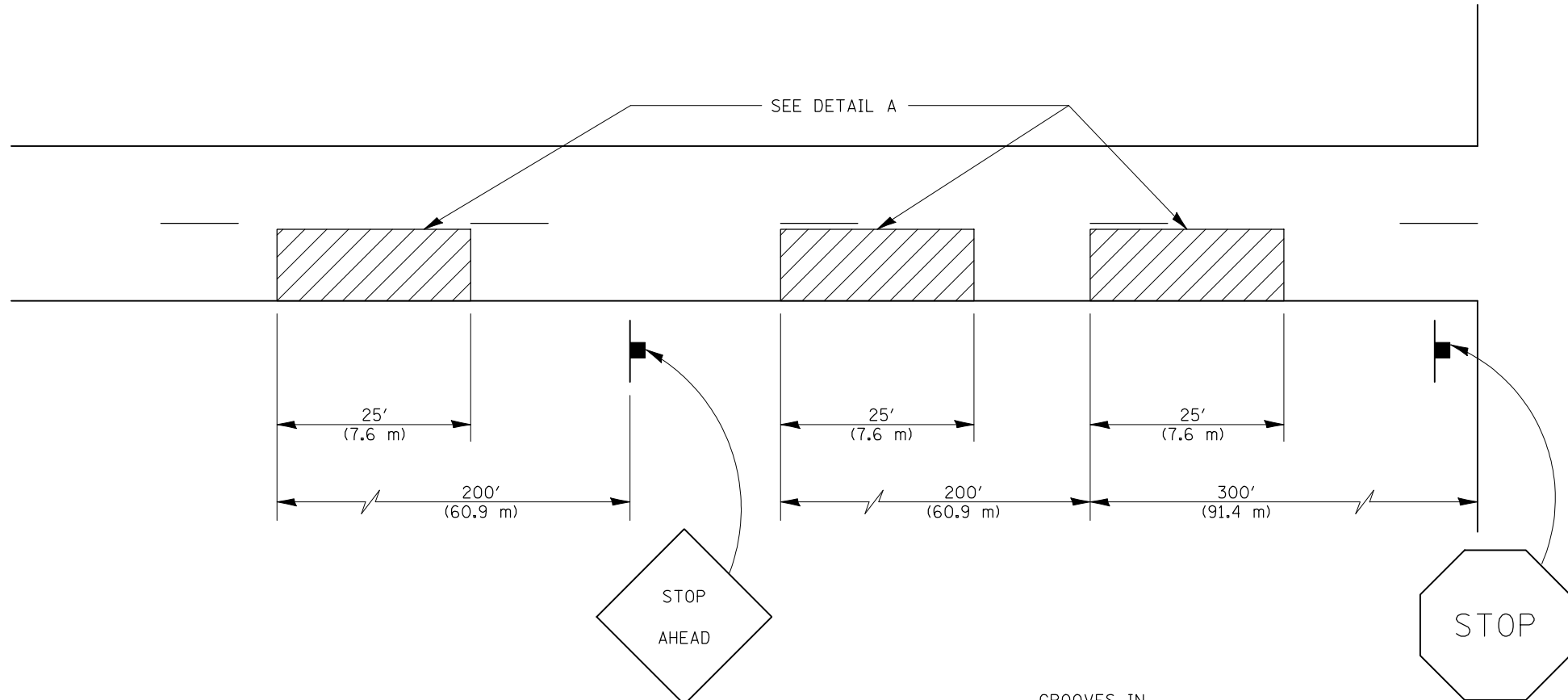
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND MARKERS  
(RURAL & URBAN APPLICATIONS)

SCALE: SHEET NO. 4 OF 4 SHEETS STA. TO STA.

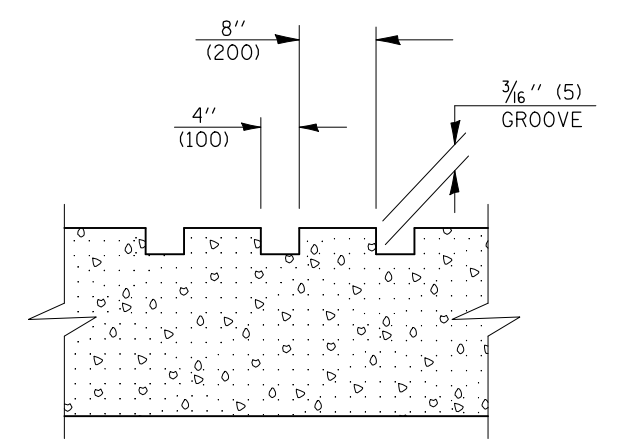
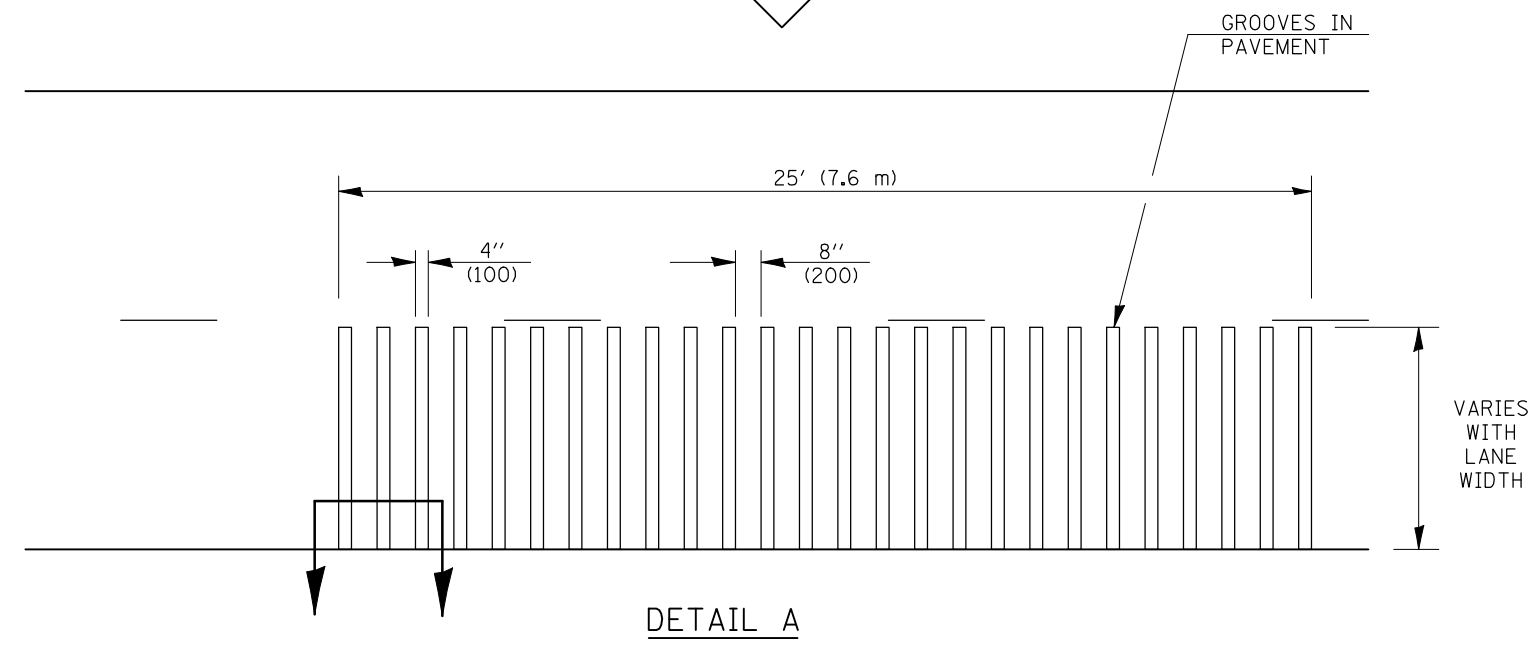
DISTRICT 5 DETAIL NO. 7800AAAA

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(147,148,149)RS-4	Edgar	23	20
CONTRACT NO. 70714				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



**GENERAL NOTES**

1. ALL GROOVES SHALL BE CONSTRUCTED USING A 4" (100 mm) MILLING HEAD OR SERIES OF 4" (100 mm) MILLING HEADS CAPABLE OF CUTTING TO THE SPECIFIED DEPTH OR ANY VARIABLE DEPTH.
2. THIS WORK WILL BE MEASURED FOR PAYMENT PER EACH 25' (7.6 m) INDIVIDUAL RUMBLE STRIP APPLIED AND PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR RUMBLE STRIP, WHICH PRICE SHALL INCLUDE ALL EQUIPMENT, MATERIAL, LABOR AND OTHER ITEMS REQUIRED TO INSTALL EACH INDIVIDUAL RUMBLE STRIP.



**SECTION A-A**

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

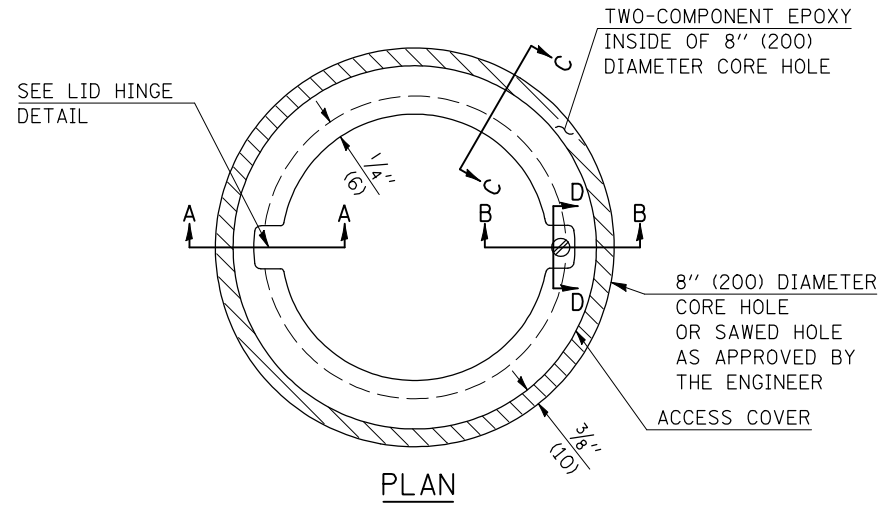
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	PLOT SCALE = 40.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 4/9/2009	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>RUMBLE STRIP (ADVANCE OF INTERSECTIONS)</b>			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

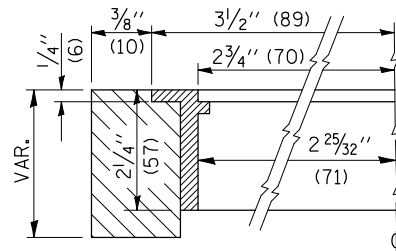
<b>DISTRICT 5 DETAIL NO. Z0055300</b>				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(147,148,149)RS-4	Edgar	23	21
CONTRACT NO. 70714				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

TO BE INSTALLED IN RIGID OR COMPOSITE PAVEMENT FOR PRESERVING LAND SURVEY MONUMENTS (SECTION OR SUBSECTION CORNERS)

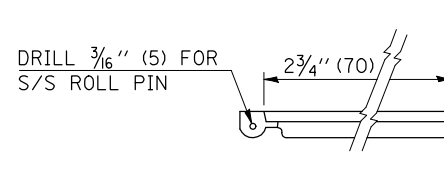


**LEGEND**

- ALUMINUM CASTING
- 5" (125) OR 6" (150) P.V.C. PIPE
- TWO-COMPONENT EPOXY
- T = THICKNESS OF PAVEMENT STRUCTURE
- H = THE THICKNESS OF THE SUB-BASE GRANULAR + 1" (25)



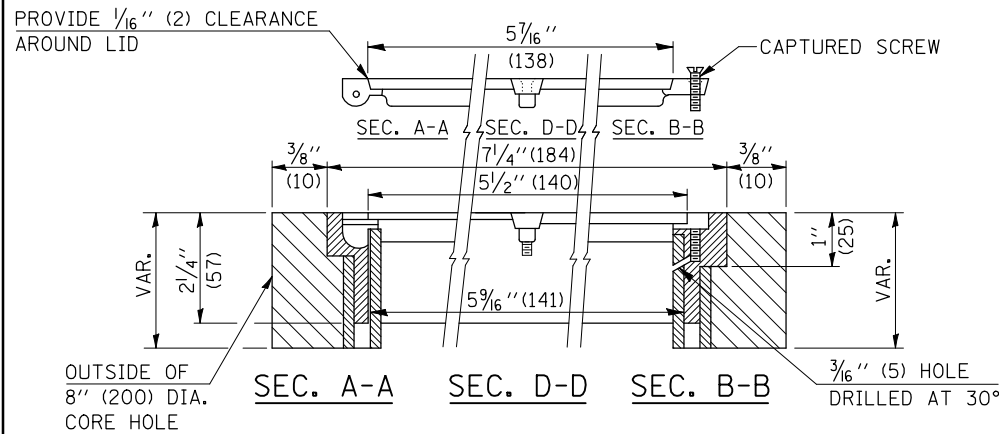
**SECTION C-C**



**LID HINGE DETAIL**

SPECIFICATIONS FOR ACCESS COVER FOR USE WITH SURVEY MARKER VAULT(S) AND SURVEY MARKER COVER ASSEMBLY(S): THE ACCESS COVER WILL BE CAST FROM A SPECIAL ALUMINUM ALLOY THAT IS COMPARABLE TO BRONZE IN HARDNESS. THE ACCESS COVER SHALL BE SPECIALLY ENGINEERED AND DESIGNED TO PROVIDE A SNUG FIT, INCORPORATING EQUIDISTANT LOCKING RIDGES, INSIDE A STANDARD 6" (150 mm) DIAMETER, OR OUTSIDE A STANDARD 5" (125 mm) DIAMETER, SCHEDULE 40 PVC PIPE. THE ACCESS COVER SHALL HAVE SPECIAL UNIFORM 1" (25 mm) THICK TOP SURFACE TO PERMIT INFORMATION TO BE EASILY MACHINE-STAMPED INTO IT. THE ACCESS COVER SHALL INCLUDE A STAINLESS CAPTURED SCREW AND AN OPPOSING RECESSED HINGE ASSEMBLY AS ITS LOCKING MECHANISM. THE ACCESS COVER SHALL INCORPORATE A SPECIAL ACCESS HOLE FOR CLEANING AND DRAINAGE, DRILLED AT 30° INSIDE THE RING OF THE ACCESS COVER, TO THE DRILLED AND TAPPED HOLE PROVIDED FOR THE STAINLESS CAPTURED SCREW. COMPOSITION: ALUMINUM 92-93%; MAGNESIUM 6.5-7.5%. STRENGTH: YIELD - 19,000-21,000 PSI (131-145 MPa); TENSILE - 38,000-44,000 PSI (262-303 MPa); ELONGATION - 10-15% IN 2" (50 mm). SPECIFICATIONS: ALLOY 535.0; Q0-A-60IES. NO EXCEPTIONS.

RE-BAR-SURVEY MARKER, TYPE I, (SPECIAL) TO BE FURNISHED BY THE CONTRACTOR AND SET BY AN ILLINOIS PROFESSIONAL LAND SURVEYOR (SEE SPECIAL DETAIL SHEET FOR ALUMINUM TABLET AND RE-BAR SPECIFICATIONS).



**ELEVATION**

**BILL OF MATERIAL**

ALUMINUM CASTING OF THE DIMENSIONS AND SPECIFICATIONS SHOWN OR OTHER SUBJECT TO ENGINEER'S APPROVAL OF SHOP DRAWINGS, 5" OR 6" (125 mm OR 150 mm) DIAMETER P.V.C. PIPE, SCHEDULE 40, ALUMINUM TABLET, STAMPED IN ACCORDANCE WITH STANDARD 667101. 5/8" X 48" (#15 X 1.2 m ) RE-BAR, EPOXY AND FA-01/02 AGGREGATE.

**GENERAL NOTES**

1. ALUMINUM CASTING SHALL BE EITHER PLACED OVER A 5" (125 mm) P.V.C. PIPE OR INSIDE OF A 6" (150 mm) P.V.C. PIPE.
2. BACKFILL WITH FINE AGGREGATE - FA-01/02.
3. WORK SHALL NOT START ON THIS ITEM UNTIL THE FINAL LIFT OF SURFACE HAS BEEN COMPLETED.
4. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR SURVEY MARKER VAULT WHICH PRICE SHALL INCLUDE ALL LABOR AND MATERIAL AS SPECIFIED INCLUDING CORING, EPOXY AND FA-01/02 AGGREGATE AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
5. THE CASTING SHALL BE ANCHORED IN THE 8" (200 mm) DIAMETER CORE HOLE WITH TWO-COMPONENT EPOXY CONFORMING TO APPLICABLE PORTIONS OF ARTICLE 1025.01 OF THE STANDARD SPECIFICATIONS.
6. ALL SURVEY MARKER (VAULTS) SHALL BE PLACED 1/4" (6 mm) ± BELOW THE FINAL SURFACE.
7. THE 8" (200 mm) DIAMETER CORE HOLE SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

**DISTRICT 5 DETAIL NO. X0301232**

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	PLOT DATE = 4/9/2009	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

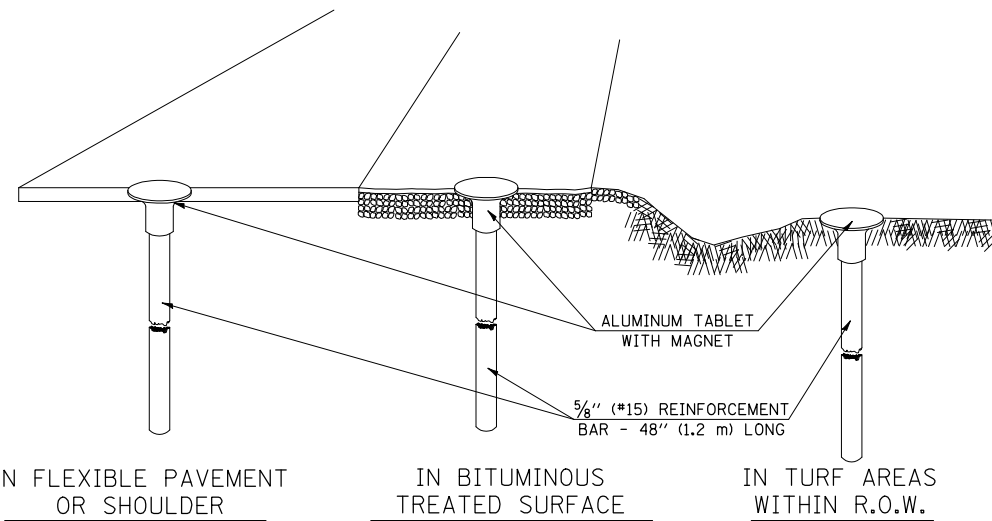
**SURVEY MARKER VAULT**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(147,148,149)RS-4	Edgar	23	22
CONTRACT NO. 70714				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

## XZ193300 – SURVEY MARKER, TYPE 1 (SPECIAL)

TO BE INSTALLED IN FLEXIBLE PAVEMENT OR SHOULDER, BITUMINOUS TREATED SURFACE AND TURF AREAS WITHIN THE RIGHT-OF-WAY FOR PRESERVING PERMANENT SURVEY MARKERS (PI'S, PT'S, PC'S, POC'S, & POT'S)



### SPECIFICATIONS FOR ALUMINUM TABLET

SURVEY CAP FOR REBAR. 3/4" (83 mm) CONVEX SURVEY CAP FOR 5/8" (15 mm) REBAR WITH ILLINOIS DEPARTMENT OF TRANSPORTATION LOGO. THIS LOGO SHALL PROVIDE LETTERS RECESSED INTO THE SURFACE A MINIMUM OF 1/32" (0.8 mm) FOR EASY AND LONG-TERM LEGIBILITY. THE ALUMINUM CAP FOR REBAR SHALL BE PRODUCED BY THE PROCESS OF ORBITAL FORGING TO PRODUCE A HIGH-STRENGTH AND DURABLE MARKER CAP WHICH WILL NOT CHIP OR BREAK AND PROVIDE A SMOOTH FINISH FOR STAMPING OF DATA IN THE FIELD. THE ALUMINUM CAP FOR REBAR SHALL BE TAPERED FOR A PERFECT COMPRESSION FIT. A SPECIAL PLASTIC INSULATOR SHALL BE INSTALLED TO PREVENT DISSIMILAR METAL CONTACT AND CORROSION. THE PLASTIC INSULATOR SHALL FORM READILY TO THE OUTER SHAPE OF THE REBAR AND TO THE INNER SHAPE OF THE ALUMINUM CAP SOCKET. THE PLASTIC INSULATOR SHALL BE LOW DENSITY POLYETHYLENE, A MINIMUM 1 1/2" (38 mm) LONG AND CONFORM TO FEDERAL SPECIFICATION L-P 390.

COMPOSITION: ALUMINUM 98.3-98.7%; OTHER 1.3-1.7%; STRENGTH: YIELD 28 KSI (193 MPa), ULTIMATE 32 KSI (221 MPa). ELONGATION 15% [IN 2" (50 mm)]. SPECIFICATIONS: ALUMINUM ALLOY 6101-0; ASTM B317-83 (EXCEPT TEMPER) AS FORGED. NO EXCEPTIONS.

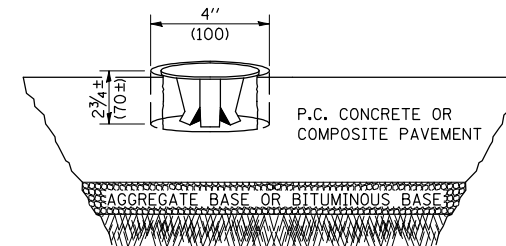
### SPECIFICATIONS FOR REBAR

REBAR FOR ALUMINUM TABLET. REINFORCEMENT BAR SHALL BE 5/8" (#15) X 48" (1.2 m) (DEFORMED).

INSPECTION OF REINFORCEMENT BAR 5/8" (#15) SHALL BE DONE BY DISTRICT PERSONNEL OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS.

## XZ193400 – SURVEY MARKER, TYPE 2 (SPECIAL)

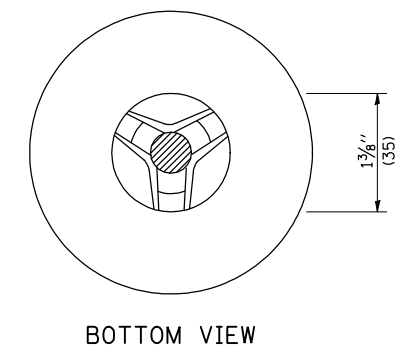
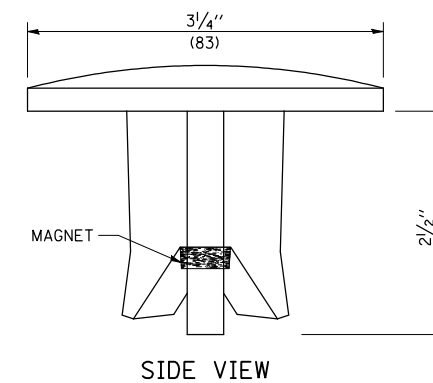
TO BE INSTALLED IN RIGID OR COMPOSITE PAVEMENT FOR PRESERVING PERMANENT SURVEY MARKERS (PI'S, PT'S, PC'S, POC'S, & POT'S)



### SPECIFICATIONS FOR ALUMINUM TABLET (FORKED)

ALUMINUM TABLET (FORKED) FOR USE WITH "SURVEY MARKER, TYPE 2, (SPECIAL)" SHALL BE AS SHOWN ON THE DETAIL FOR THE 3/4" (83 mm) CONVEX SURVEY TABLET WITH ILLINOIS DEPARTMENT OF TRANSPORTATION LOGO. THIS LOGO SHALL PROVIDE FOR LETTERS RECESSED INTO THE SURFACE A MINIMUM OF 1/32" (0.8 mm) FOR EASY AND LONG-TERM LEGIBILITY. THE ALUMINUM TABLET SHALL BE PRODUCED BY THE PROCESS OF ORBITAL FORGING TO PRODUCE A HIGH-STRENGTH AND DURABLE MARKER CAP WHICH WILL NOT CHIP OR BREAK AND PROVIDE A SMOOTH FINISH FOR STAMPING OF DATA IN THE FIELD. THE ALUMINUM TABLET SHALL BE DESIGNED NOT TO TURN OR ROTATE. THREE PRONGS ON A 2 1/2" (63 mm) STEM SHALL BE SUCH THAT THE ALUMINUM TABLET CANNOT BE EASILY REMOVED.

COMPOSITION: ALUMINUM 92-93%; MAGNESIUM 6.5-7.5%. STRENGTH: YIELD 19,000-21,000 PSI (131-145 MPa); TENSILE 38,000-44,000 PSI (262-303 MPa); ELONGATION 10-15% [IN 2" (50 mm)]. SPECIFICATIONS: ALLOY 535.0; QQ-A-601ES. NO EXCEPTIONS.



THE DIMENSIONS SHOWN SHALL BE EXACT, OTHERS MAY VARY, BUT SHALL BE SHOWN ON SHOP DRAWINGS.

### GENERAL NOTES

1. WORK ON THIS ITEM SHALL NOT START UNTIL THE FINAL SURFACE IS COMPLETED.
2. THE ALUMINUM TABLET (FORKED) SHALL REST UPON THE BOTTOM OF THE 4" (100 mm) CORE HOLE. IF THE HOLE IS TOO DEEP, EPOXY GROUT MUST BE USED TO DECREASE THE DEPTH AND ALLOWED TO HARDEN BEFORE PROCEEDING.
3. THE ALUMINUM TABLET SHALL BE ANCHORED IN THE 4" (100 mm) DIAMETER HOLE IN THE NEW PAVEMENT WITH TWO-COMPONENT EPOXY CONFORMING TO APPLICABLE PORTIONS OF ARTICLE 1025.01 OF THE STANDARD SPECIFICATIONS.
4. THE 4" (100 mm) CORE HOLE SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
5. THE CONTRACT PRICE, EACH, FOR SURVEY MARKER, TYPE 2 (SPECIAL) SHALL BE PAYMENT IN FULL FOR FURNISHING THE ALUMINUM TABLET AND ALL LABOR AND MATERIAL TO SET THE MARKER IN PLACE, AS SPECIFIED, INCLUDING CORING THE NEW PAVEMENT.
6. ALL SURVEY MARKERS, TYPE 2 (SPECIAL) SHALL BE PLACED ± 1/4" (6 mm) BELOW THE FINAL SURFACE.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

### DISTRICT 5 DETAIL NO. XZ193AAA

FILE NAME =	USER NAME = ceorlockjd	DESIGNED -	REVISED - 11/06	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SURVEY MARKERS TYPE 1 &amp; 2 (SPECIAL)</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ce:\pw\work\pmdot\ceorlockjd\0124787\70714-sht-details.dgn		DRAWN -	REVISED -					323	(147,148,149)RS-4	Edgar	23	23
		CHECKED -	REVISED -		CONTRACT NO. 70714							
		DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							

### GENERAL NOTES

1. THE CONTRACT UNIT PRICE, EACH, FOR SURVEY MARKER, TYPE I, (SPECIAL) SHALL BE PAYMENT IN FULL FOR FURNISHING THE SURVEY MARKER.
2. ALL SURVEY MARKERS, TYPE I, (SPECIAL) SHALL BE PLACED ± 1/4" (6 mm) BELOW THE FINAL SURFACE.
3. WHEN THE TABLET AND REBAR ARE PLACED AS PART OF A SURVEY MARKER VAULT, THEY SHALL BE CONSIDERED AS INCLUDED IN THAT PAY ITEM AND THERE WILL BE NO PAYMENT FOR THE SURVEY MARKER, TYPE I, (SPECIAL).

THE DIMENSIONS SHOWN SHALL BE EXACT, OTHERS MAY VARY, BUT SHALL BE SHOWN ON SHOP DRAWINGS.