03-11-11 LETTING ITEM 030

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	28 R-2 RS-3	MCHENRY	32	1
FED. ROAD DIST. NO. 1	ILLINOIS	FED AID PROJECT		

D-91-609-10
CONTRACT NO. 60K84

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

F.A.P 305 (US ROUTE 14)
SECTION 28R–2RS–3
PARK LANE DRIVE TO IL ROUTE 47 (S. EASTWOOD DRIVE)
RESURFACING (3P)
PROJECT: NHF-0305(043)
MCHENRY COUNTY
C–91–609–10

FOR INDEX OF SHEETS, SEE SHEET NO. 2

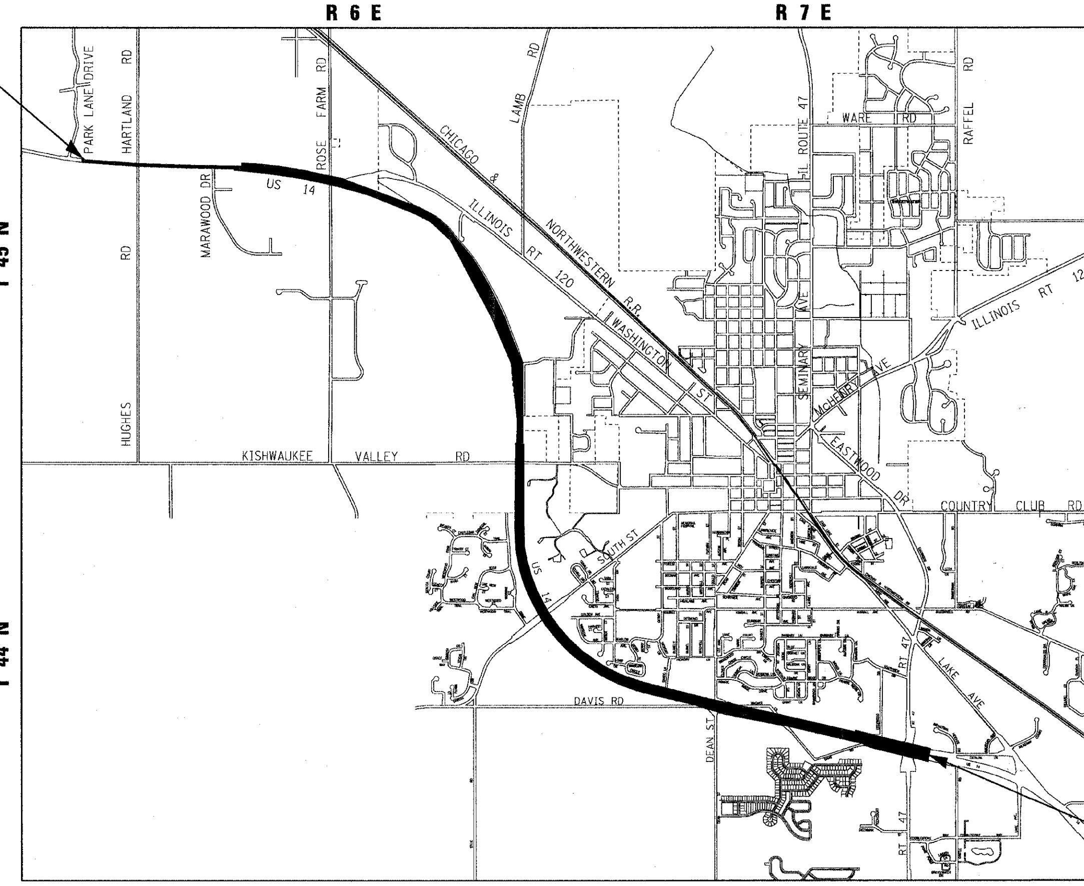
IMPROVEMENT LOCATED WITHIN THE CITY OF WOODSTOCK AND UNINCORPORATED McHENRY COUNTY

TRAFFIC DATA
US ROUTE 14
2006 ADT = 10,500
SPEED LIMIT = 55 MPH

100' 200' 300' — 1" = 100'
10' 20' 30' — 1" = 10'
50' 100' — 1" = 50'
50' 100' — 1" = 40'
50' 100' — 1" = 30'
50' 100' — 1" = 20'

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.

PROJECT BEGINS
STA 143+45



PROJECT ENDS
STA 476+90

SCALE: NTS

HARTLAND, SENECA & DORR TOWNSHIPS
GROSS LENGTH OF IMPROVEMENT = 33,345 LF OR 6.315 MILES
NET LENGTH OF IMPROVEMENT = 33,345 LF OR 6.315 MILES

LOCATION OF SECTION INDICATED THUS:

Call Before You Dig
JULIE ILLINOIS ONE-CALL SYSTEM

CONTACT JULIE AT 811 OR 800-892-0123
WITH THE FOLLOWING:
COUNTY = McHENRY
CITY-TWNSHP. = SENECA, HARTLAND & DORR
SEC. & 1/4 SEC. NO. = 1, 7, 12, 17, 34, 35, 36
48 HOURS (2 working days) BEFORE YOU DIG

DISTRICT ONE –
PROJECT MANAGER: KEN ENG (847) 705–4247
PROJECT ENGINEER: ROBERT LENZINI (815) 459–1260

CONTRACT NO. 60K84

BAXTER & WOODMAN
Consulting Engineers

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED NOVEMBER 16 20 10
Diane M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
February 4 20 11
Scott E. Stitt P.E.
acting ENGINEER OF DESIGN AND ENVIRONMENT
February 4 20 11
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

DAVID S. HEMMERICH
62-060360
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS
PROJECT ENGINEER
"LICENSE EXPIRES 11-30-2011"

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

B&W PROJECT NO.: 100153

COMMITMENTS

THERE ARE NO COMMITMENTS FOR THIS PROJECT.

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE DETAILS IN THE PLANS, THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS, AND THE LATEST EDITION OF THE FOLLOWING STATE OF ILLINOIS SPECIFICATIONS: "THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (REFERED TO AS THE "STANDARD SPECIFICATIONS"), THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" AND THE "MANUAL OF TEST PROCEDURES FOR MATERIALS".

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

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

4. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE CITY OF WOODSTOCK.

5. BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE "BUTT JOINT AND HMA TAPER DETAILS" SHEET INCLUDED IN THE PLANS UNLESS OTHERWISE SPECIFIED.

6. WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH. WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF MILLING IS SLOPED AT A MINIMUM OF 1:3 (V:H).

7. THE ENGINEER SHALL CONTACT DEBBIE HANLON, THE AREA TRAFFIC FIELD ENGINEER, AT (847) 438-2300 A MINIMUM OF TWO (2) WEEKS PRIOR TO INSTALLATION OF PERMANENT PAVEMENT MARKINGS. THE RESIDENT ENGINEER IS RESPONSIBLE FOR RECORDING EXISTING PAVEMENT MARKINGS PRIOR TO HMA SURFACE REMOVAL.

8. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO INSTALLATION OF TEMPORARY TRAFFIC CONTROL DEVICES.

9. ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

10. DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE MARKERS (SNOW-PLOW RESISTANT)" SHOWN IN THE PLANS.

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

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.

13. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

14. WHEN CONSTRUCTION OPERATIONS ON TWO-LANE ROADS OPEN TO TRAFFIC RESULT IN THE REMOVAL OR COVERING OF ANY PAVEMENT MARKING INDICATING PASSING RESTRICTIONS, "NO PASSING ZONES STRIPED NEXT _____ MILES" SIGNS SHALL BE USED. THE CONTRACTOR SHALL PLACE THE SIGNS AT THE BEGINNING OF THE UNSTRIPED AREA, JUST BEYOND EACH MAJOR INTERSECTION WITHIN THE UNSTRIPED AREA, AND AT SUCH LOCATIONS AS THE ENGINEER MAY DIRECT TO ENSURE A MINIMUM SPACING OF FIVE MILES.

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	INDEX OF SHEETS, HIGHWAY STANDARDS & GENERAL NOTES
3	SUMMARY OF QUANTITIES
4 - 8	EXISTING AND PROPOSED TYPICAL SECTIONS
9 - 20	ROADWAY AND PAVEMENT MARKING PLANS
21 - 23	DISTRICT ONE - DETECTOR LOOP REPLACEMENT
24	(BD-22) PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
25	(BD-32) BUTT JOINT AND HMA TAPER DETAILS
26	(TC-10) TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
27	(TC-11) TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)
28	(TC-13) TYPICAL PAVEMENT MARKINGS
29	(TC-14) TRAFFIC CONTROL AND PROTECTION OF TURN BAYS(TO REMAIN OPEN TO TRAFFIC)
30	(TC-16) PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING
31	(TC-22) ARTERIAL ROAD INFORMATION SIGNING
32	(TS-07) DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING

HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
442201-03	CLASS C AND D PATCHES
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-03	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY FOR SPEEDS > 45 MPH
701311-03	LANE CLOSURE, 2L, 2W MOVING OPERATIONS - DAY ONLY
701336-06	LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES, FOR SPEEDS > 45 MPH
701421-03	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS > 45 MPH TO 55 MPH
701426-04	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS FOR SPEEDS > 45 MPH
701701-07	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-01	TRAFFIC CONTROL DEVICES

BAXTER WOODMAN Consulting Engineers

DESIGNED - DSH	REVISED -	
DRAWN - RKM / CJC	REVISED -	
CHECKED - RWL	REVISED -	
DATE - 11-01-10	FILE - 100153-W02-GEN-NOTE.sht	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 14
PARK LANE DRIVE TO IL ROUTE 47
INDEX OF SHEETS, HIGHWAY STANDARDS AND GENERAL NOTES

SCALE: NONE | STA. | TO STA.

Rev.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	28 R-2 RS-3	McHENRY	32	2
C-91-609-10		CONTRACT NO. 60K84		
FED. ROAD DIST. NO. 1	ILLINOIS	FED AID PROJECT		

SUMMARY OF QUANTITIES

CODE NO.	ITEM DESCRIPTION	UNIT	80% FED./20% STATE URBAN TOTAL QUANTITY	CONSTRUCTION TYPE CODE 0005 QUANTITY	
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	117	117	
40600300	AGGREGATE (PRIME COAT)	TON	922	922	
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	17	17	
40600895	CONSTRUCTING TEST STRIP	EACH	2	2	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	500	500	
40601005	HOT-MIX APSHALT REPLACEMENT OVER PATCHES	TON	1,150	1,150	
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	13,237	13,237	
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	153,460	153,460	
44002212	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 3"	SQ YD	6,659	6,659	
44201761	CLASS D PATCHES, TYPE I,10 INCH	SQ YD	164	164	
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	3,718	3,718	
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	323	323	
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	1,112	1,112	
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	3,202	3,202	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	7	7	
67100100	MOBILIZATION	LSUM	1	1	
70100310	TRAFFIC CONTROL AND PROTECTION,STANDARD 701421	LSUM	1	1	
70100460	TRAFFIC CONTROL AND PROTECTION,STANDARD 701306	LSUM	1	1	
70100600	TRAFFIC CONTROL AND PROTECTION,STANDARD 701336	LSUM	1	1	
70102635	TRAFFIC CONTROL AND PROTECTION,STANDARD 701701	LSUM	1	1	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	34,086	34,086	
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	1,554	1,554	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	253,860	253,860	
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	5,406	5,406	
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	5,128	5,128	
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	2,792	2,792	
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	1,132	1,132	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	3,788	3,788	
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	777	777	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	126,930	126,930	

SUMMARY OF QUANTITIES

CODE NO.	ITEM DESCRIPTION	UNIT	80% FED./20% STATE URBAN TOTAL QUANTITY	CONSTRUCTION TYPE CODE 0005 QUANTITY	
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	2,703	2,703	
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	2,564	2,564	
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1,396	1,396	
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	566	566	
* 78005100	EPOXY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	219	219	
* 78005110	EPOXY PAVEMENT MARKING - LINE 4"	FOOT	6,670	6,670	
* 78005140	EPOXY PAVEMENT MARKING - LINE 8"	FOOT	2,200	2,200	
* 78005150	EPOXY PAVEMENT MARKING - LINE 12"	FOOT	535	535	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	1,150	1,150	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	1,150	1,150	
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	2,041	2,041	
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	104	104	
~~Z0076600~~	~~TRAINEES~~	~~HOUR~~			
X2020110	GRADING AND SHAPING SHOULDERS	UNIT	545	545	
X4060826	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	6,504	6,504	

* INDICATES SPECIALTY ITEM

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BAXTER & WOODMAN Consulting Engineers

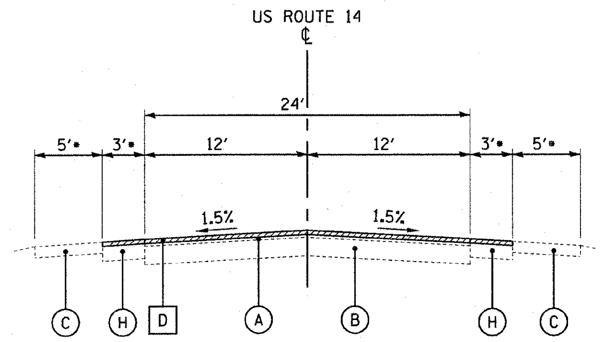
DESIGNED	- DSH	REVISED	-
DRAWN	- RKM / CJC	REVISED	-
CHECKED	- RWL	REVISED	-
DATE	- 11-01-10	FILE	- 100153-W02-SOQ.sht

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 14
PARK LANE DRIVE TO IL ROUTE 47
SUMMARY OF QUANTITIES

SCALE: NONE | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	28 R-2 RS-3	McHENRY	32	3
C-91-609-10		CONTRACT NO. 60K84		
FED. ROAD DIST. NO. 1	ILLINOIS	FED AID PROJECT		

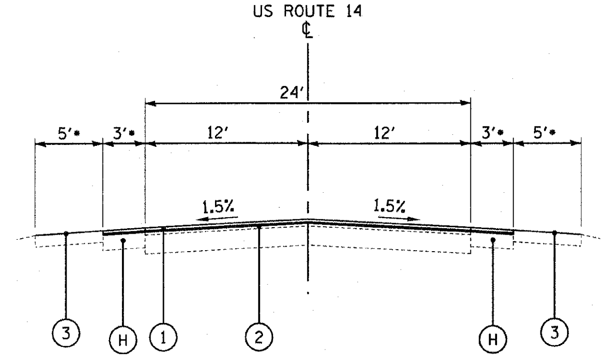


• 4' PAVED & 4' AGGREGATE SHOULDER
STA 143+45 TO STA 183+20
AND 8' PAVED SHOULDER
STA 254+50 TO STA 266+00

EXISTING TYPICAL SECTION

US ROUTE 14

STA 143+45 TO STA 192+20
STA 248+55 TO STA 309+80
STA 330+06 TO STA 405+60
STA 426+75 TO STA 456+55

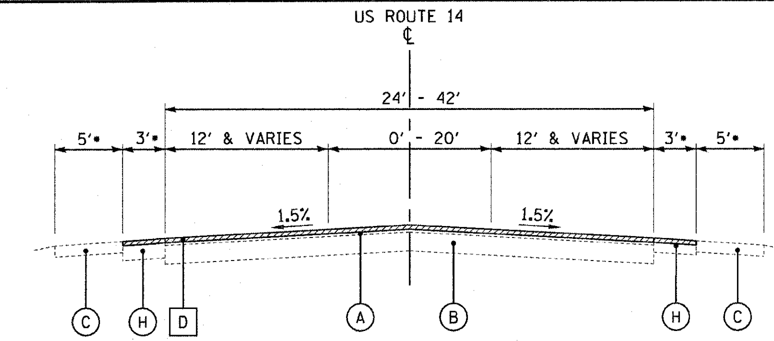


• 4' PAVED & 4' AGGREGATE SHOULDER
STA 143+45 TO STA 183+20
AND 8' PAVED SHOULDER
STA 254+50 TO STA 266+00

PROPOSED TYPICAL SECTION

US ROUTE 14

STA 143+45 TO STA 192+20
STA 248+55 TO STA 309+80
STA 330+06 TO STA 405+60
STA 426+75 TO STA 456+55



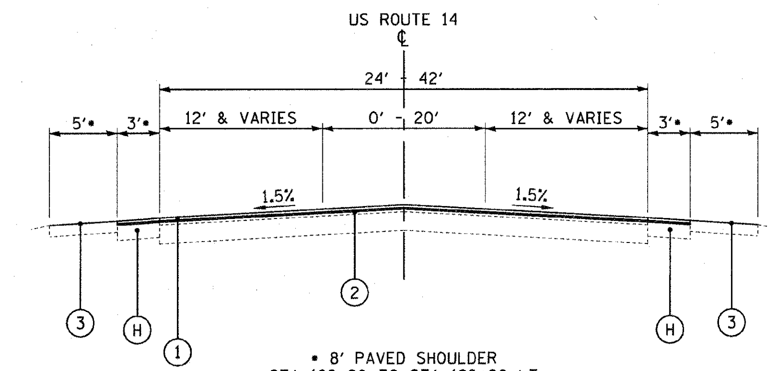
• 8' PAVED SHOULDER
STA 192+20 TO STA 198+20 LT
STA 241+00 TO STA 248+55 RT

• 12' PAVED SHOULDER
STA 309+80 TO STA 321+65 RT

EXISTING TYPICAL SECTION

US ROUTE 14

STA 192+20 TO STA 198+20
STA 241+00 TO STA 248+55
STA 309+80 TO STA 330+06



• 8' PAVED SHOULDER
STA 192+20 TO STA 198+20 LT
STA 241+00 TO STA 248+55 RT

• 12' PAVED SHOULDER
STA 309+80 TO STA 321+65 RT

PROPOSED TYPICAL SECTION

US ROUTE 14

STA 192+20 TO STA 198+20
STA 241+00 TO STA 248+55
STA 309+80 TO STA 330+06

LEGEND

- (A) EXISTING HMA SURFACE, 3"±
- (B) EXISTING PCC BASE, 10"±
- (C) EXISTING AGGREGATE SHOULDER, 6"±
- [D] HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"
- (E) EXISTING COMBINATION CONCRETE CURB AND GUTTER
- (F) EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, 9 3/4" ±
- (G) EXISTING PORTLAND CEMENT CONCRETE SHOULDER, 9 3/4" ±
- (H) EXISTING PAVED SHOULDERS
- [hatched] ITEM TO BE REMOVED
- (1) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5mm) - 1 1/2"
- (2) POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 - 3/4"
- (3) GRADING AND SHAPING SHOULDERS AND AGGREGATE WEDGE SHOULDER, TYPE B

NOTE:

THE CONTRACTOR SHALL PATCH FIRST BEFORE MILLING.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ Ndes
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5mm)	4% @ 70 GYR.
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL 4.75, N50	4% @ 50 GYR.
CLASS D PATCHES (HMA BINDER IL-19 mm)	4% @ 70 GYR.
HOT-MIX ASPHALT REPLACEMENT OVER PATCHES (HMA BINDER IL-19mm)	4% @ 70 GYR.

MIXTURE NOTES:

1. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ. YD./IN.
2. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

FOR "PERCENT RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

BAXTER & WOODMAN Consulting Engineers

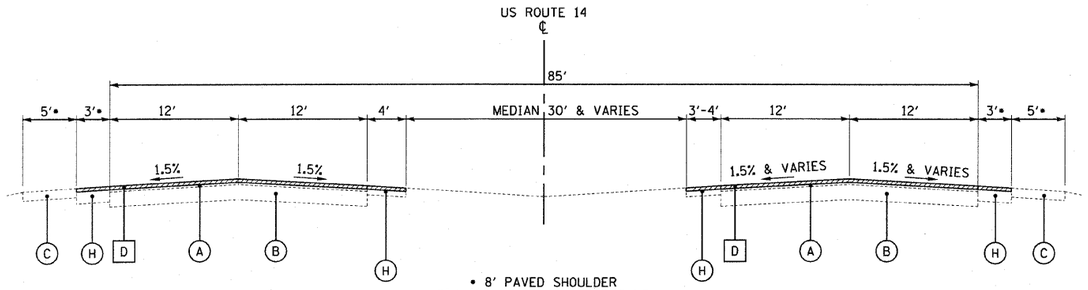
DESIGNED	DSH	REVISED	-
DRAWN	RKM / CJC	REVISED	-
CHECKED	RWL	REVISED	-
DATE	11-01-10	FILE	100153-W02-TYPSEC-1.sht

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 14
PARK LANE DRIVE TO IL ROUTE 47
TYPICAL SECTIONS

SCALE: NONE | STA. | TO STA.

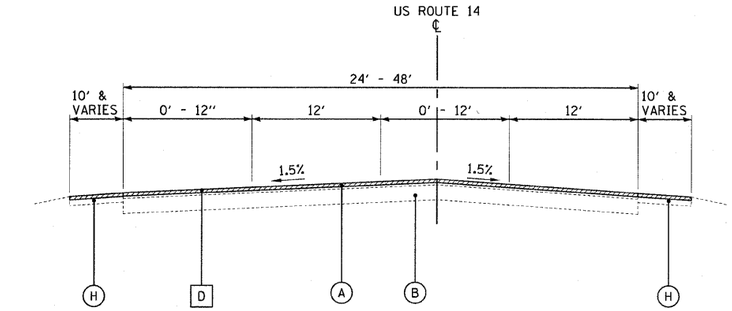
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	28 R-2 RS-3	McHENRY	32	4
C-91-609-10		CONTRACT NO. 60K84		
FED. ROAD DIST. NO. 1	ILLINOIS	FED AID PROJECT		



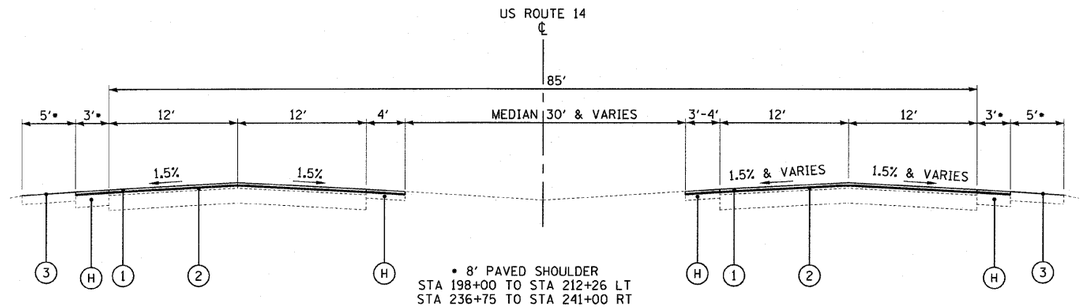
• 8′ PAVED SHOULDER
STA 198+00 TO STA 212+26 LT
STA 236+75 TO STA 241+00 RT

EXISTING TYPICAL SECTION
US ROUTE 14

STA 198+00 TO STA 212+26
STA 236+75 TO STA 241+00



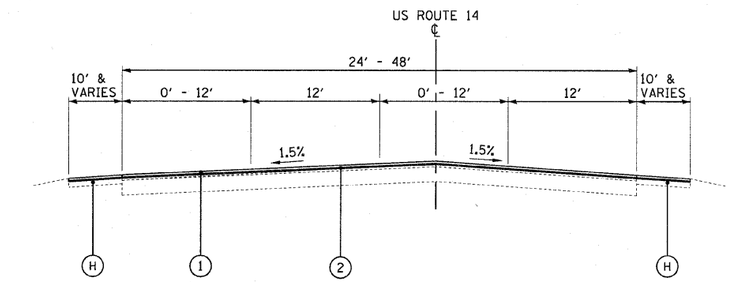
EXISTING TYPICAL SECTION
US ROUTE 14
STA 405+60 TO STA 426+75



• 8′ PAVED SHOULDER
STA 198+00 TO STA 212+26 LT
STA 236+75 TO STA 241+00 RT

PROPOSED TYPICAL SECTION
US ROUTE 14

STA 198+00 TO STA 212+26
STA 236+75 TO STA 241+00



PROPOSED TYPICAL SECTION
US ROUTE 14
STA 405+60 TO STA 426+75

LEGEND

(A)	EXISTING HMA SURFACE, 3″±
(B)	EXISTING PCC BASE, 10″±
(C)	EXISTING AGGREGATE SHOULDER, 6″±
[D]	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4″
(E)	EXISTING COMBINATION CONCRETE CURB AND GUTTER
(F)	EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, 9 3/4″ ±
(G)	EXISTING PORTLAND CEMENT CONCRETE SHOULDER, 9 3/4″ ±
(H)	EXISTING PAVED SHOULDERS
▨	ITEM TO BE REMOVED
(1)	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5mm) - 1 1/2″
(2)	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 - 3/4″
(3)	GRADING AND SHAPING SHOULDERS AND AGGREGATE WEDGE SHOULDER, TYPE B

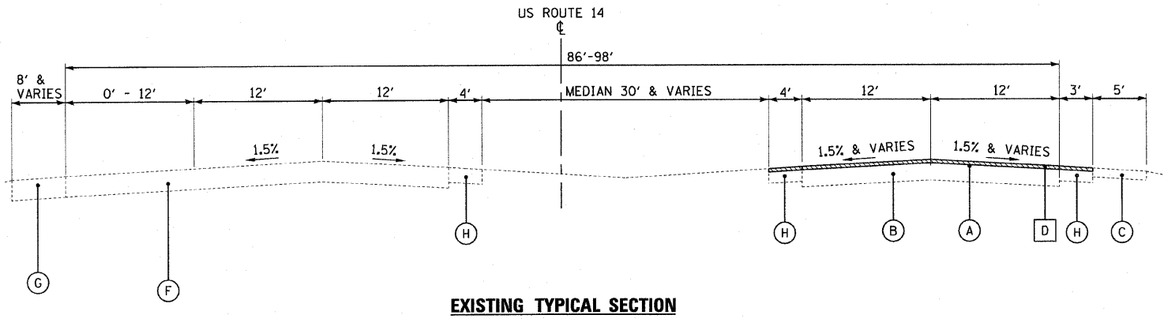
DESIGNED	DSH	REVISED	-
DRAWN	RKM / CJC	REVISED	-
CHECKED	RWL	REVISED	-
DATE	11-01-10	FILE	100153-W01-TYPSEC-2.sht

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

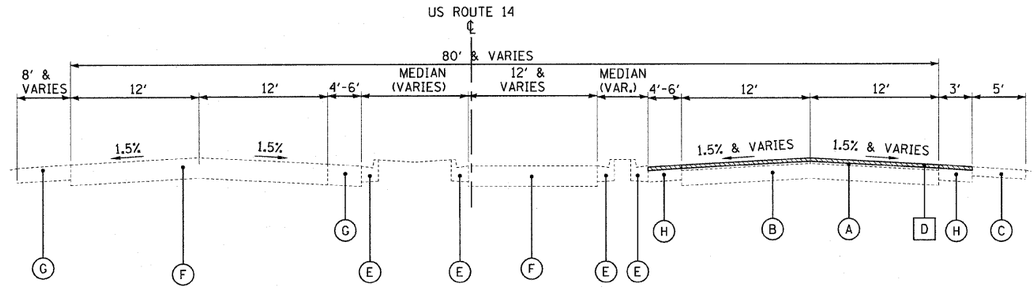
US ROUTE 14
PARK LANE DRIVE TO IL ROUTE 47
TYPICAL SECTIONS

SCALE: NONE | STA. | TO STA.

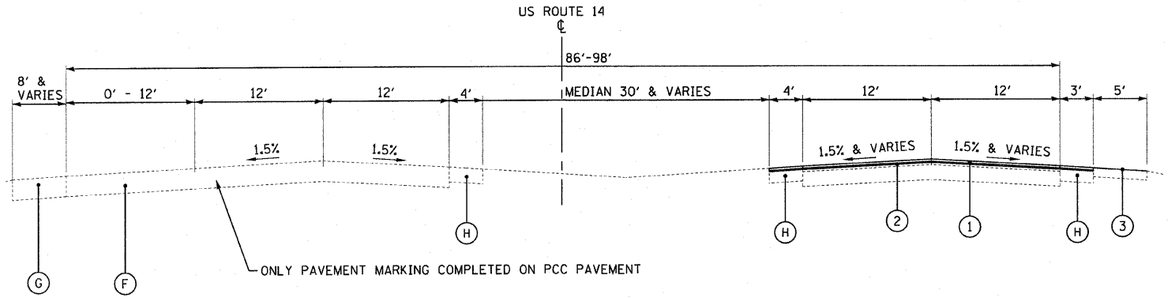
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	28 R-2 RS-3	McHENRY	32	5
C-91-609-10		CONTRACT NO. 60K84		
FED. ROAD DIST. NO. 1	ILLINOIS	FED AID PROJECT		



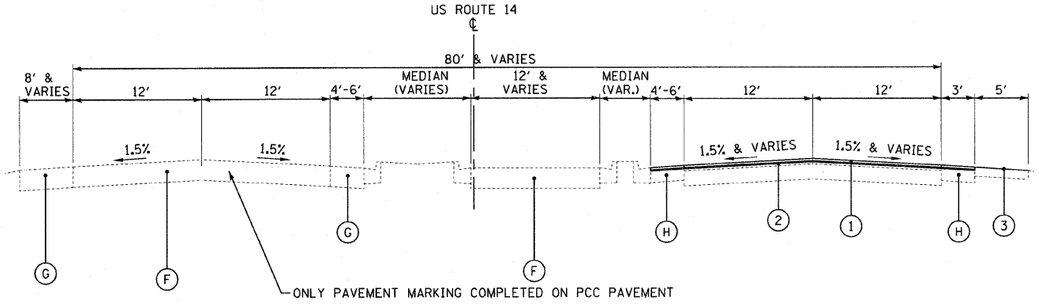
EXISTING TYPICAL SECTION
US ROUTE 14
STA 224+00 TO STA 236+75



EXISTING TYPICAL SECTION
US ROUTE 14
STA 212+26 TO STA 224+00



PROPOSED TYPICAL SECTION
US ROUTE 14
STA 224+00 TO STA 236+75



PROPOSED TYPICAL SECTION
US ROUTE 14
STA 212+26 TO STA 224+00

LEGEND

- (A) EXISTING HMA SURFACE, 3"±
- (B) EXISTING PCC BASE, 10"±
- (C) EXISTING AGGREGATE SHOULDER, 6"±
- [D] HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"
- (E) EXISTING COMBINATION CONCRETE CURB AND GUTTER
- (F) EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, 9 3/4" ±
- (G) EXISTING PORTLAND CEMENT CONCRETE SHOULDER, 9 3/4" ±
- (H) EXISTING PAVED SHOULDERS
- ▨ ITEM TO BE REMOVED
- (1) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5mm) - 1 1/2"
- (2) POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 - 3/4"
- (3) GRADING AND SHAPING SHOULDERS AND AGGREGATE WEDGE SHOULDER, TYPE B

BAXTER & WOODMAN Consulting Engineers

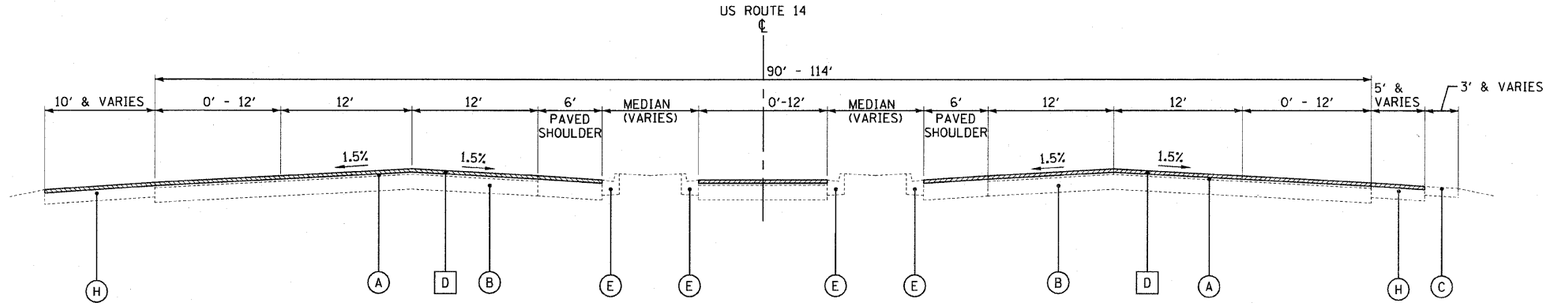
DESIGNED - DSH	REVISED -	
DRAWN - RKM / CJC	REVISED -	
CHECKED - RWL	REVISED -	
DATE - 11-01-10	FILE - 100153-W02-TYPSEC-1.sht	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

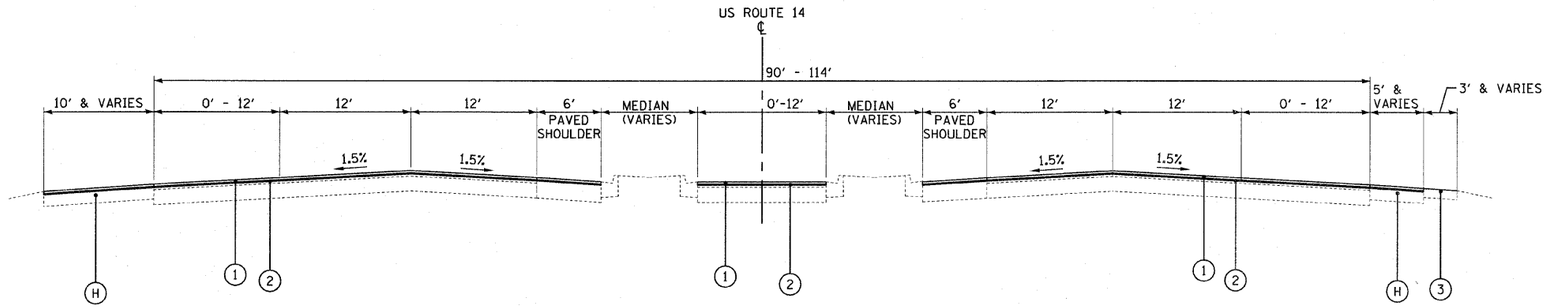
US ROUTE 14
PARK LANE DRIVE TO IL ROUTE 47
TYPICAL SECTIONS

SCALE: NONE | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	28 R-2 RS-3	McHENRY	32	6
C-91-609-10		CONTRACT NO. 60K84		
FED. ROAD DIST. NO. 1	ILLINOIS	FED AID PROJECT		



EXISTING TYPICAL SECTION
US ROUTE 14
STA 468+00 TO STA 472+00



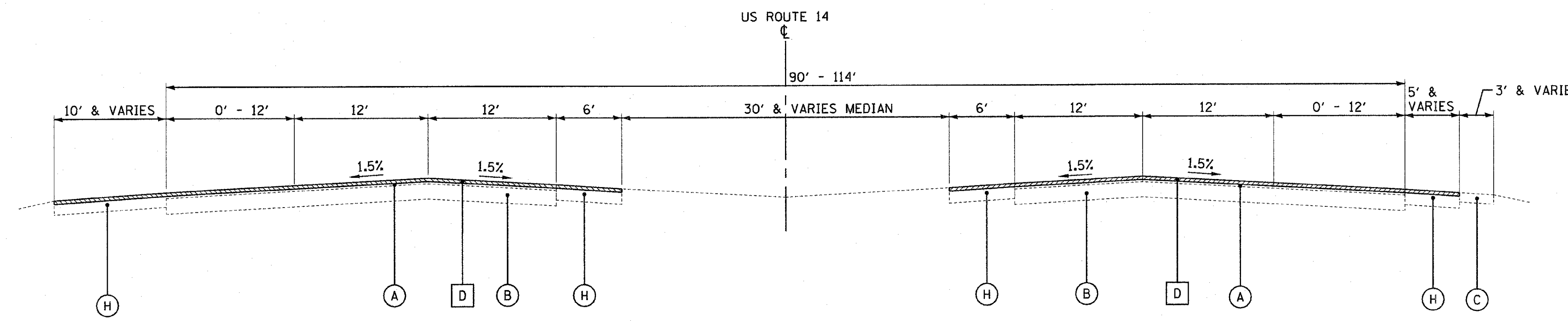
PROPOSED TYPICAL SECTION
US ROUTE 14
STA 468+00 TO STA 472+00

LEGEND

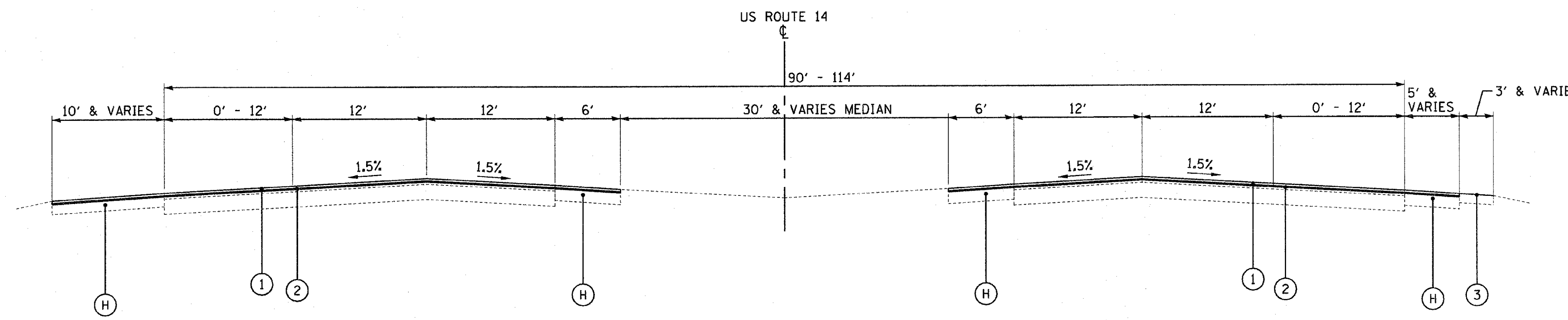
- (A) EXISTING HMA SURFACE, 3"±
- (B) EXISTING PCC BASE, 10"±
- (C) EXISTING AGGREGATE SHOULDER, 6"±
- [D] HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"
- (E) EXISTING COMBINATION CONCRETE CURB AND GUTTER
- (F) EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, 9 3/4" ±
- (G) EXISTING PORTLAND CEMENT CONCRETE SHOULDER, 9 3/4" ±
- (H) EXISTING PAVED SHOULDERS
- ▨ ITEM TO BE REMOVED
- (1) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5mm) - 1 1/2"
- (2) POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 - 3/4"
- (3) GRADING AND SHAPING SHOULDERS AND AGGREGATE WEDGE SHOULDER, TYPE B

DESIGNED - DSH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US ROUTE 14 PARK LANE DRIVE TO IL ROUTE 47 TYPICAL SECTIONS
DRAWN - RKM / CJC	REVISED -		SCALE: NONE STA. TO STA.
CHECKED - RWL	REVISED -		
DATE - 11-01-10	FILE - 100153-W01-TYPSEC-2.sht		

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	28 R-2 RS-3	McHENRY	32	7
C-91-609-10		CONTRACT NO. 60K84		
FED. ROAD DIST. NO. 1	ILLINOIS	FED AID PROJECT		



EXISTING TYPICAL SECTION
US ROUTE 14
STA 456+55 TO STA 468+00
STA 472+00 TO STA 476+90



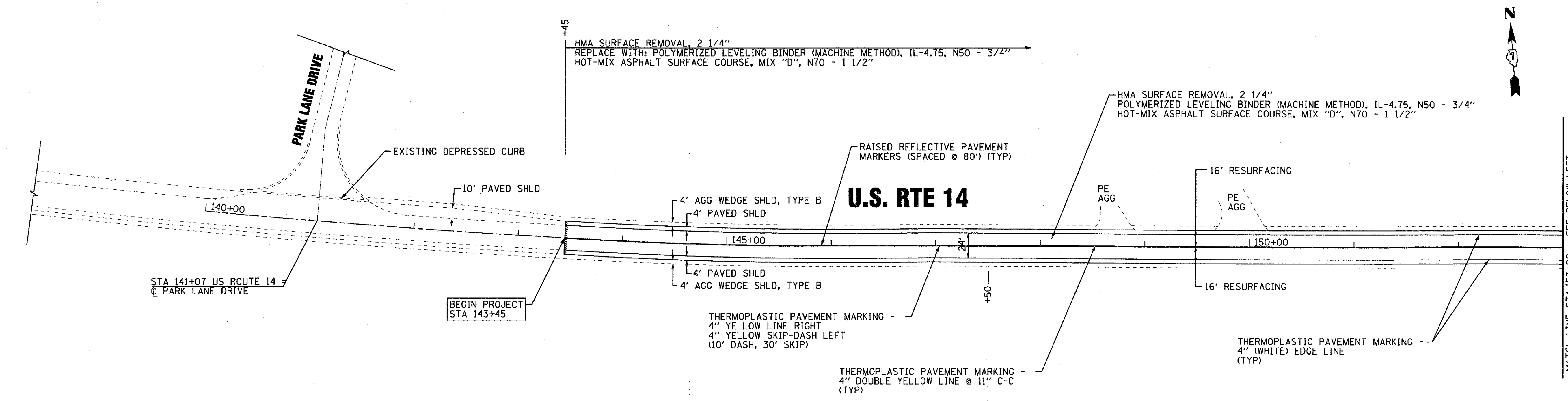
PROPOSED TYPICAL SECTION
US ROUTE 14
STA 456+55 TO STA 468+00
STA 472+00 TO STA 476+90

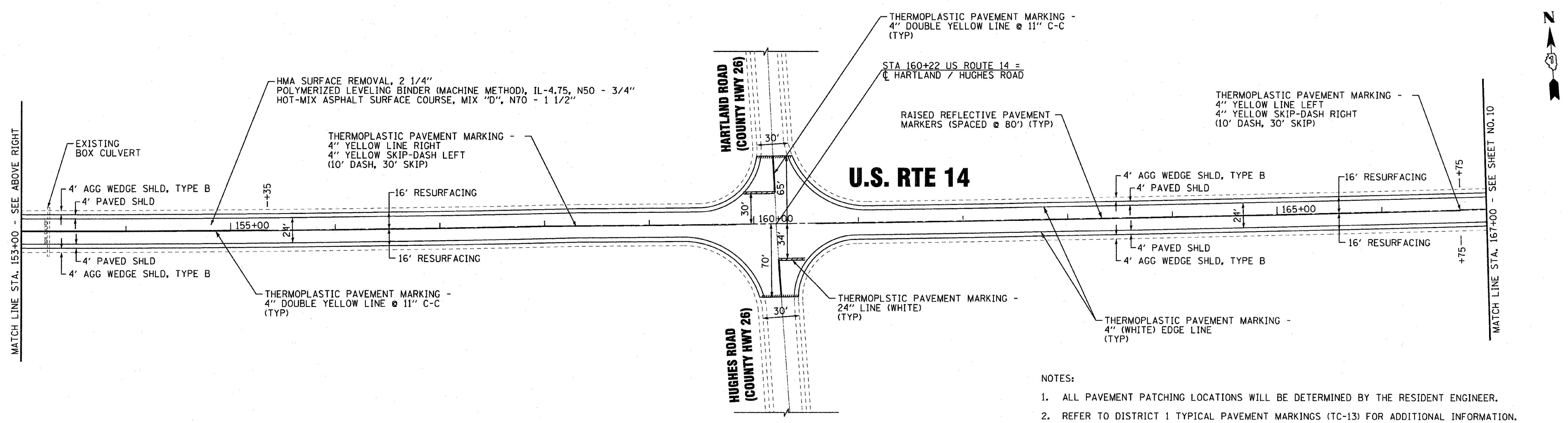
LEGEND

(A)	EXISTING HMA SURFACE, 3"±
(B)	EXISTING PCC BASE, 10"±
(C)	EXISTING AGGREGATE SHOULDER, 6"±
[D]	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"
(E)	EXISTING COMBINATION CONCRETE CURB AND GUTTER
(F)	EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, 9 3/4" ±
(G)	EXISTING PORTLAND CEMENT CONCRETE SHOULDER, 9 3/4" ±
(H)	EXISTING PAVED SHOULDERS
(hatched)	ITEM TO BE REMOVED
(1)	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5mm) - 1 1/2"
(2)	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 - 3/4"
(3)	GRADING AND SHAPING SHOULDERS AND AGGREGATE WEDGE SHOULDER, TYPE B

BAXTER & WOODMAN Consulting Engineers	DESIGNED - DSH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - RKM / CJC	REVISED -	
	CHECKED - RWL	REVISED -	
	DATE - 11-01-10	FILE - 100153-W01-TYPSEC-2.sht	

US ROUTE 14 PARK LANE DRIVE TO IL ROUTE 47 TYPICAL SECTIONS	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	305	28 R-2 RS-3	McHENRY	32	8
	C-91-609-10		CONTRACT NO. 60K84		
SCALE: NONE / STA. / TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED AID PROJECT		





NOTES:

1. ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED BY THE RESIDENT ENGINEER.
2. REFER TO DISTRICT 1 TYPICAL PAVEMENT MARKINGS (TC-13) FOR ADDITIONAL INFORMATION.
3. REFER TO DISTRICT 1 RAISED REFLECTIVE PAVEMENT MARKERS (TC-11) FOR ADDITIONAL INFORMATION.
4. EXISTING SHOULDER RUMBLE STRIPS ARE NOT TO BE REPLACED.

BAXTER & WOODMAN Consulting Engineers

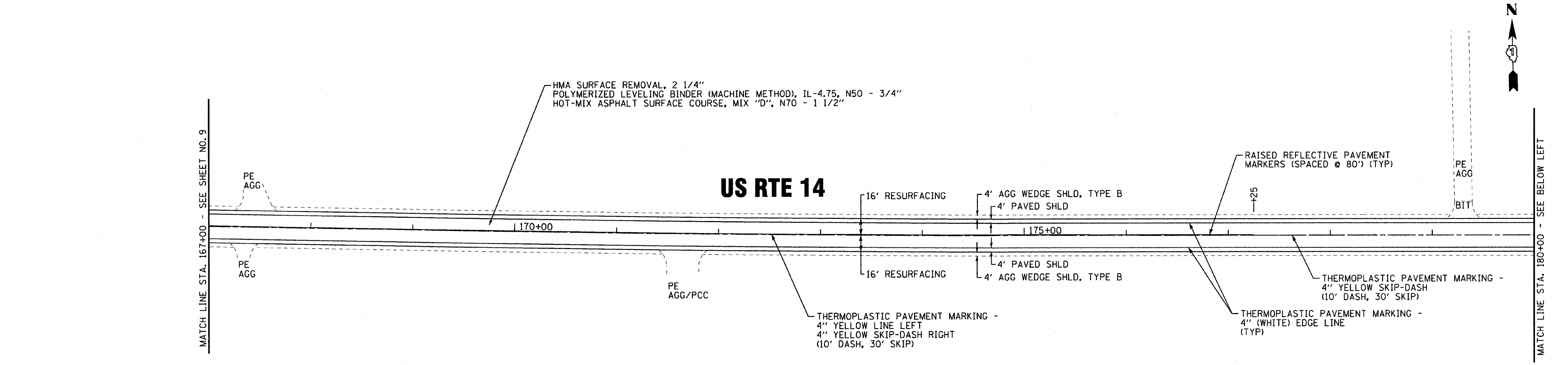
DESIGNED	DSH	REVISED	-
DRAWN	RKM / CJC	REVISED	-
CHECKED	RWL	REVISED	-
DATE	11-01-10	FILE	100153-W02-PLAN-1.sht

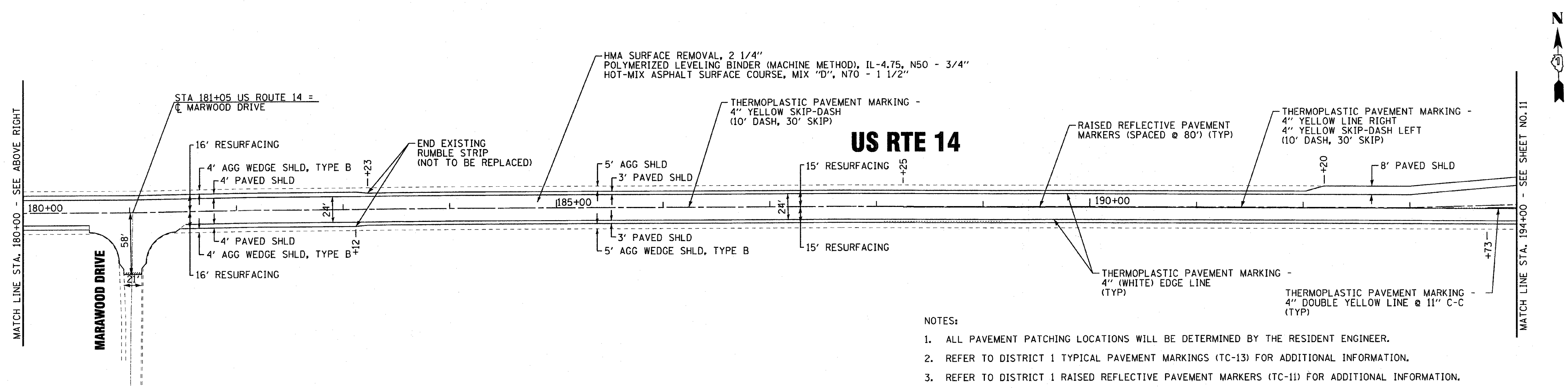
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 14
PARK LANE DRIVE TO IL ROUTE 47
ROADWAY & PAVEMENT MARKING PLAN

SCALE: 1" 50' | STA. 140+00 TO STA. 167+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	28 R-2 RS-3	McHENRY	32	9
C-91-609-10		CONTRACT NO. 60K84		
FED. ROAD DIST. NO. 1	ILLINOIS	FED AID PROJECT		



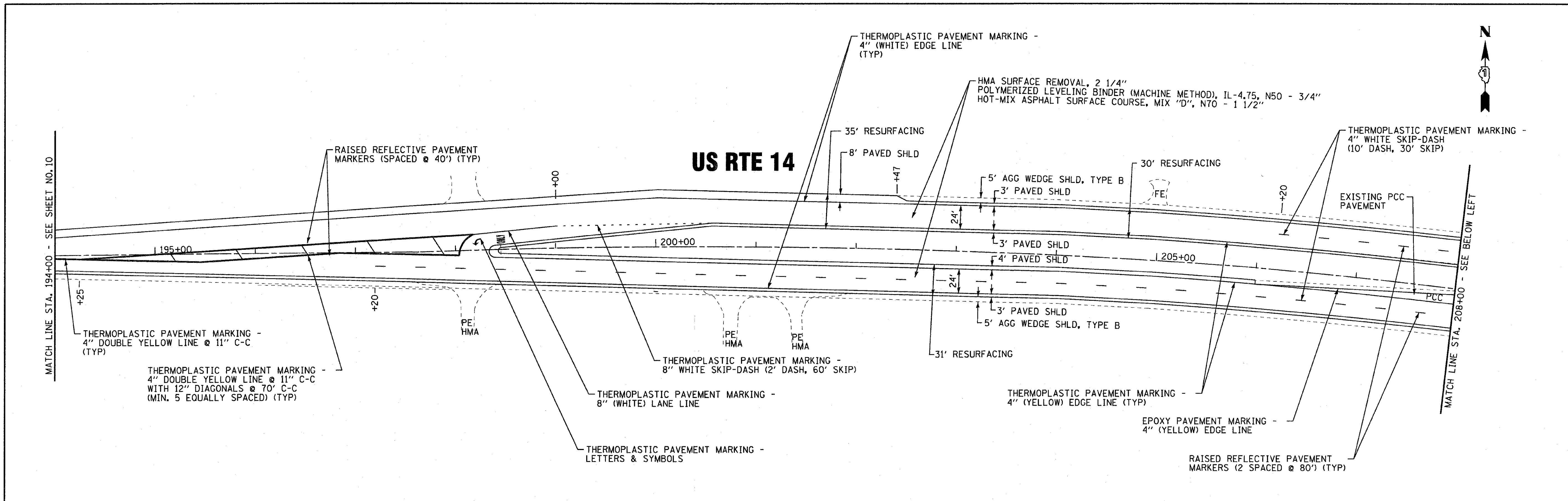


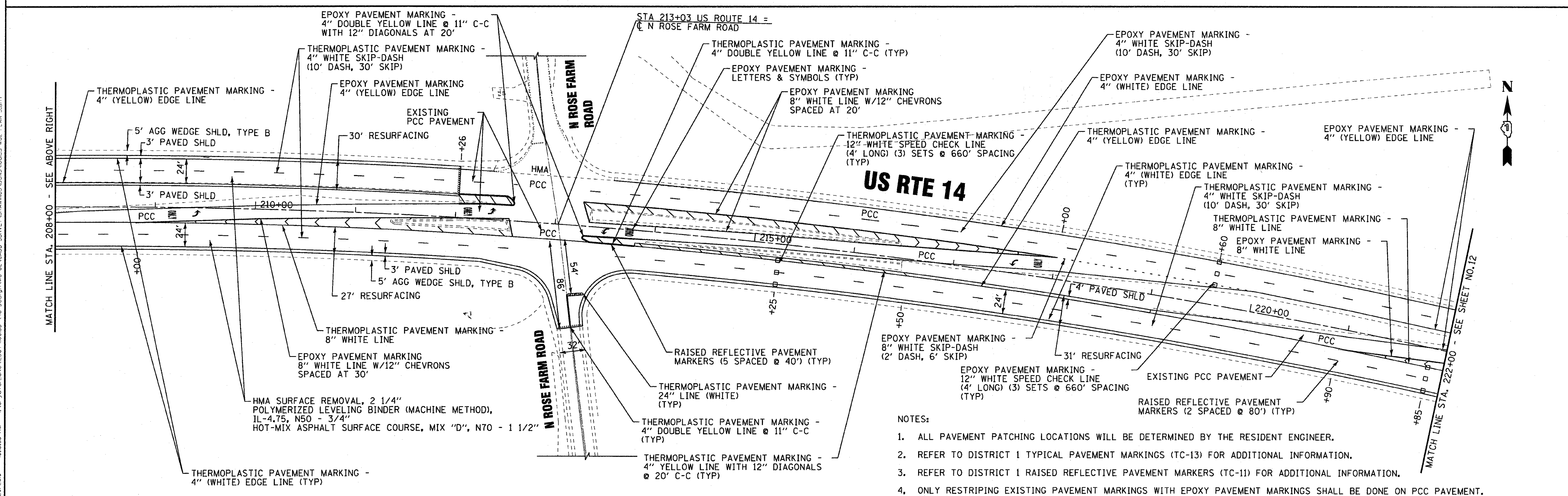
NOTES:

1. ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED BY THE RESIDENT ENGINEER.
2. REFER TO DISTRICT 1 TYPICAL PAVEMENT MARKINGS (TC-13) FOR ADDITIONAL INFORMATION.
3. REFER TO DISTRICT 1 RAISED REFLECTIVE PAVEMENT MARKERS (TC-11) FOR ADDITIONAL INFORMATION.
4. EXISTING SHOULDER RUMBLE STRIPS ARE NOT TO BE REPLACED.

BAXTER & WOODMAN Consulting Engineers	DESIGNED - DSH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US ROUTE 14 PARK LANE DRIVE TO IL ROUTE 47 ROADWAY & PAVEMENT MARKING PLAN
	DRAWN - RKM / CJC	REVISED -		
	CHECKED - RWL	REVISED -		
	DATE - 11-01-10	FILE - 100153-W02-PLAN-2.sht		SCALE: 1" 50' / STA. 167+00 TO STA. 194+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	28 R-2 RS-3	McHENRY	32	10
C-91-609-10		CONTRACT NO. 60K84		
FED. ROAD DIST. NO. 1	ILLINOIS	FED AID PROJECT		





NOTES:

1. ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED BY THE RESIDENT ENGINEER.
2. REFER TO DISTRICT 1 TYPICAL PAVEMENT MARKINGS (TC-13) FOR ADDITIONAL INFORMATION.
3. REFER TO DISTRICT 1 RAISED REFLECTIVE PAVEMENT MARKERS (TC-11) FOR ADDITIONAL INFORMATION.
4. ONLY RESTRIPING EXISTING PAVEMENT MARKINGS WITH EPOXY PAVEMENT MARKINGS SHALL BE DONE ON PCC PAVEMENT.

BAXTER & WOODMAN Consulting Engineers

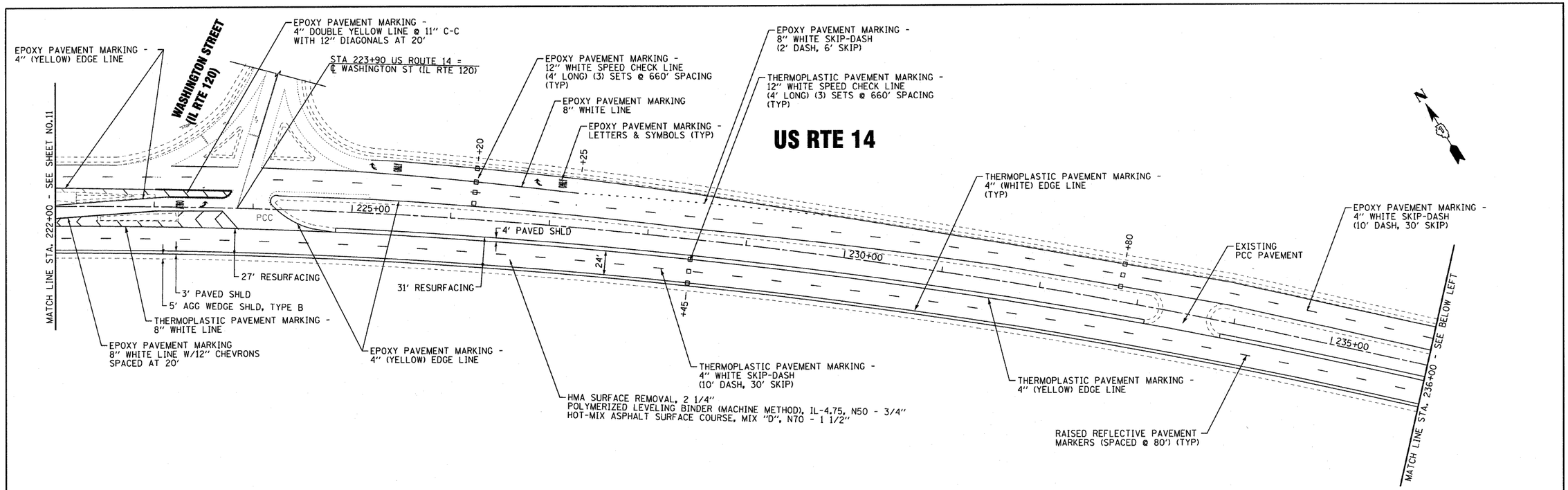
DESIGNED	DSH	REVISED	-
DRAWN	RKM / CJC	REVISED	-
CHECKED	RWL	REVISED	-
DATE	11-01-10	FILE	100153-W02-PLAN-3.sht

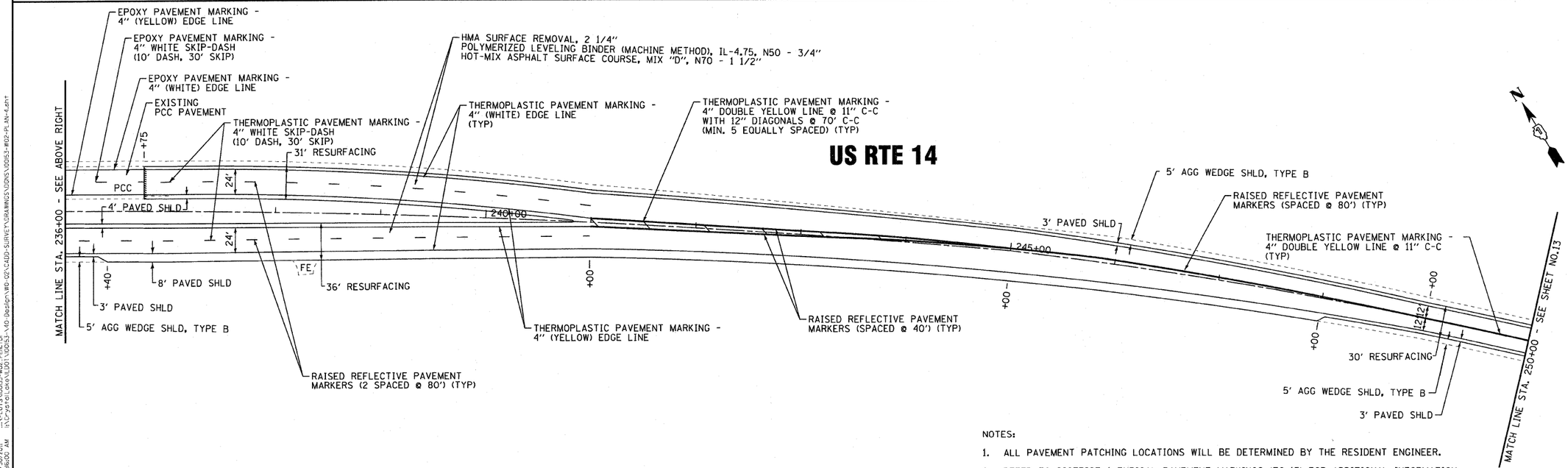
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 14
PARK LANE DRIVE TO IL ROUTE 47
ROADWAY & PAVEMENT MARKING PLAN

SCALE: 1" 50' | STA. 194+00 TO STA. 222+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	28 R-2 RS-3	McHENRY	32	11
C-91-609-10		CONTRACT NO. 60K84		
FED. ROAD DIST. NO. 1	ILLINOIS	FED AID PROJECT		



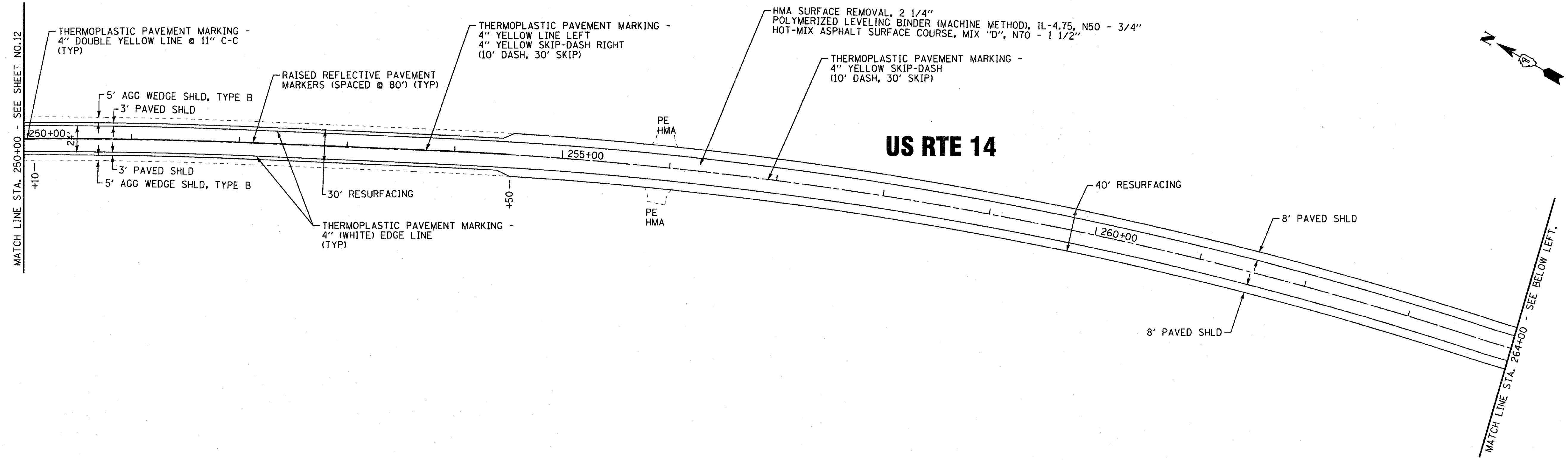


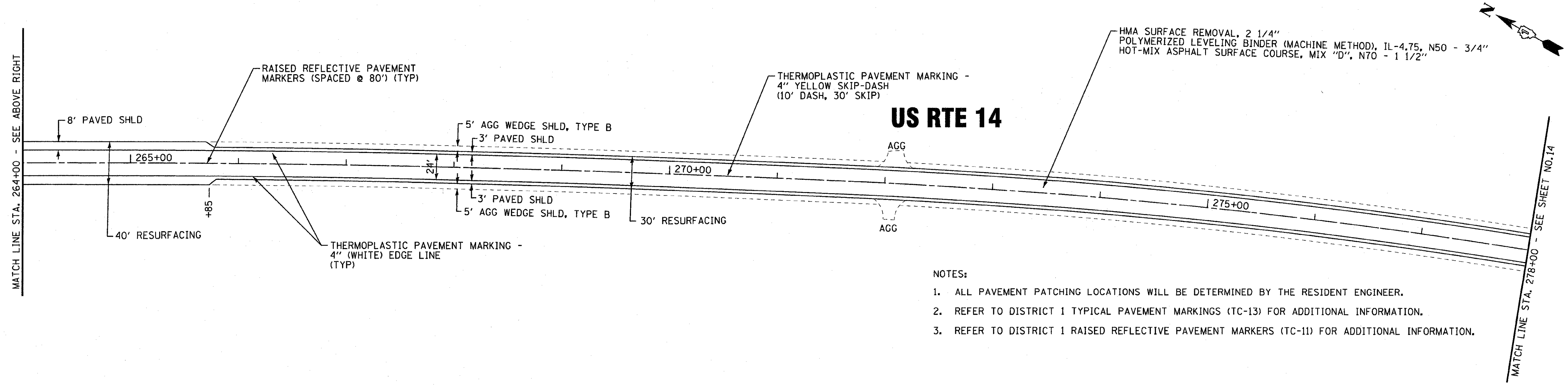
NOTES:

1. ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED BY THE RESIDENT ENGINEER.
2. REFER TO DISTRICT 1 TYPICAL PAVEMENT MARKINGS (TC-13) FOR ADDITIONAL INFORMATION.
3. REFER TO DISTRICT 1 RAISED REFLECTIVE PAVEMENT MARKERS (TC-11) FOR ADDITIONAL INFORMATION.
4. ONLY RESTRIPING EXISTING PAVEMENT MARKINGS WITH EPOXY PAVEMENT MARKINGS SHALL BE DONE ON PCC PAVEMENT.

DESIGNED - DSH	REVISED -	**STATE OF ILLINOIS**	**US ROUTE 14**
DRAWN - RKM / CJC	REVISED -	**DEPARTMENT OF TRANSPORTATION**	**PARK LANE DRIVE TO IL ROUTE 47**
CHECKED - RWL	REVISED -		**ROADWAY & PAVEMENT MARKING PLAN**
DATE - 11-01-10	FILE - 100153-W02-PLAN-4.sht		SCALE: 1" 50' STA. 222+00 TO STA. 250+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	28 R-2 RS-3	McHENRY	32	12
	C-91-609-10	CONTRACT NO. 60K84		
FED. ROAD DIST. NO. 1	ILLINOIS	FED AID PROJECT		





NOTES:

1. ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED BY THE RESIDENT ENGINEER.
2. REFER TO DISTRICT 1 TYPICAL PAVEMENT MARKINGS (TC-13) FOR ADDITIONAL INFORMATION.
3. REFER TO DISTRICT 1 RAISED REFLECTIVE PAVEMENT MARKERS (TC-11) FOR ADDITIONAL INFORMATION.

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BAXTER & WOODMAN Consulting Engineers

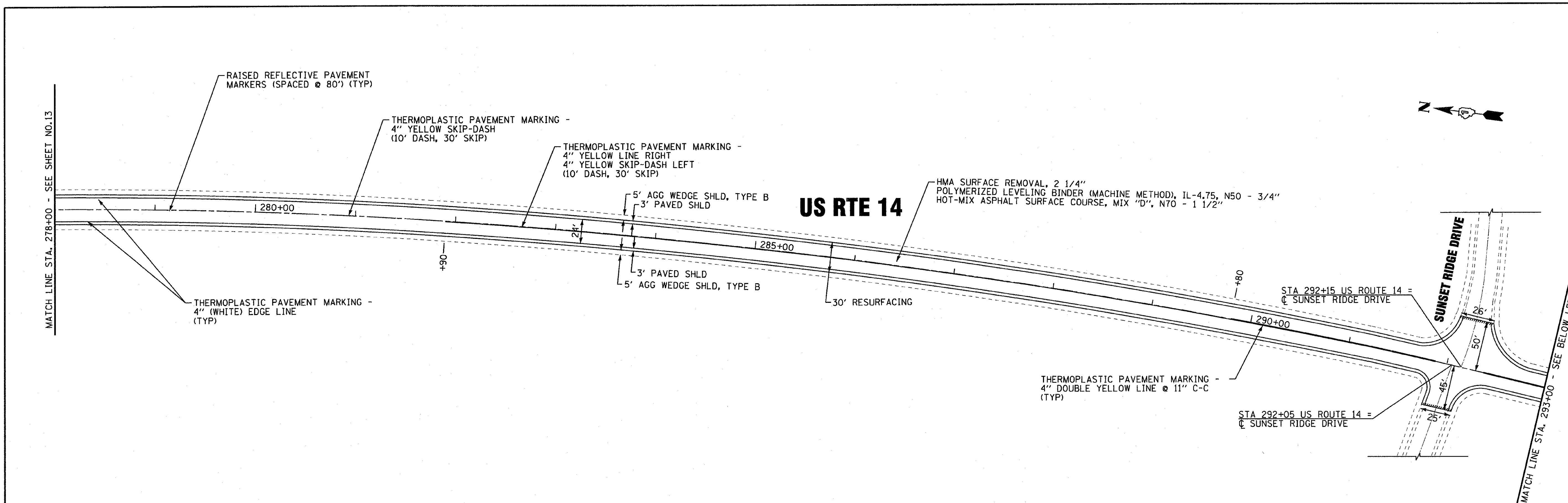
DESIGNED - DSH		REVISED -	
DRAWN - RKM / CJC		REVISED -	
CHECKED - RWL		REVISED -	
DATE - 11-01-10		FILE - 100153-W02-PLAN-5.sht	

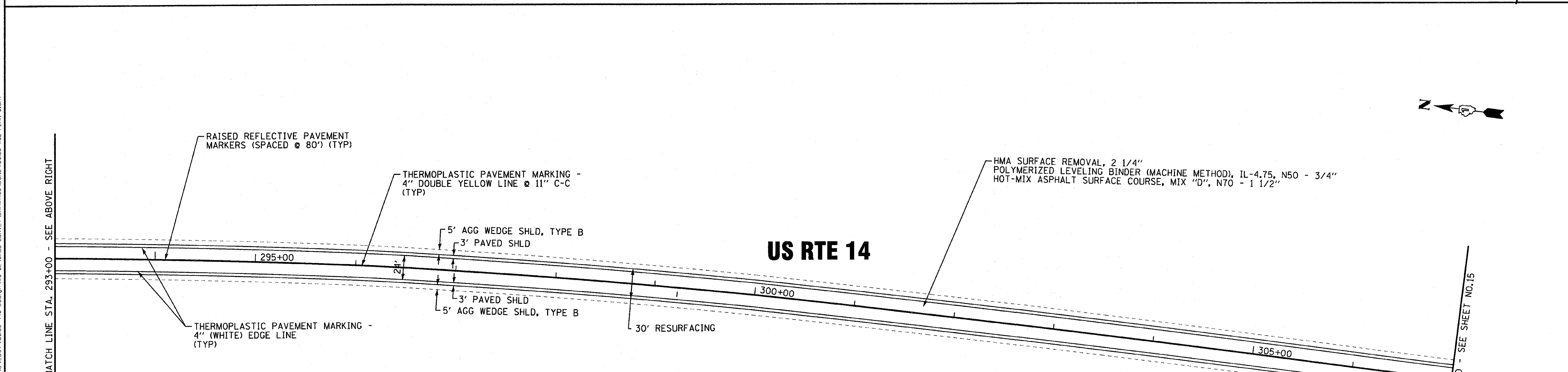
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 14
PARK LANE DRIVE TO IL ROUTE 47
ROADWAY & PAVEMENT MARKING PLAN

SCALE: 1" 50' | STA. 250+00 TO STA. 278+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	28 R-2 RS-3	McHENRY	32	13
C-91-609-10		CONTRACT NO. 60K84		
FED. ROAD DIST. NO. 1	ILLINOIS	FED AID PROJECT		





NOTES:

1. ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED BY THE RESIDENT ENGINEER.
2. REFER TO DISTRICT 1 TYPICAL PAVEMENT MARKINGS (TC-13) FOR ADDITIONAL INFORMATION.
3. REFER TO DISTRICT 1 RAISED REFLECTIVE PAVEMENT MARKERS (TC-11) FOR ADDITIONAL INFORMATION.
4. THE ENGINEER SHALL CONTACT: DEBBIE HANLON FIELD TECHNICIAN AT (847) 438-2300 A MINIMUM OF TWO (2) WEEKS PRIOR TO START OF PROJECT FOR PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

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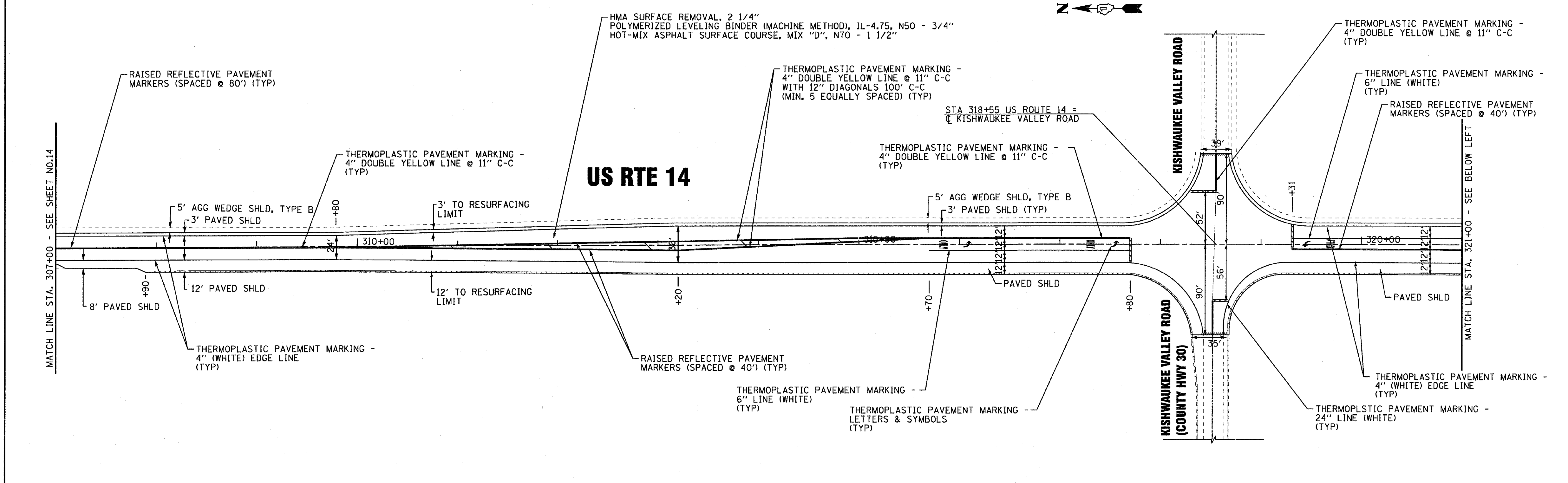
BAXTER & WOODMAN Consulting Engineers

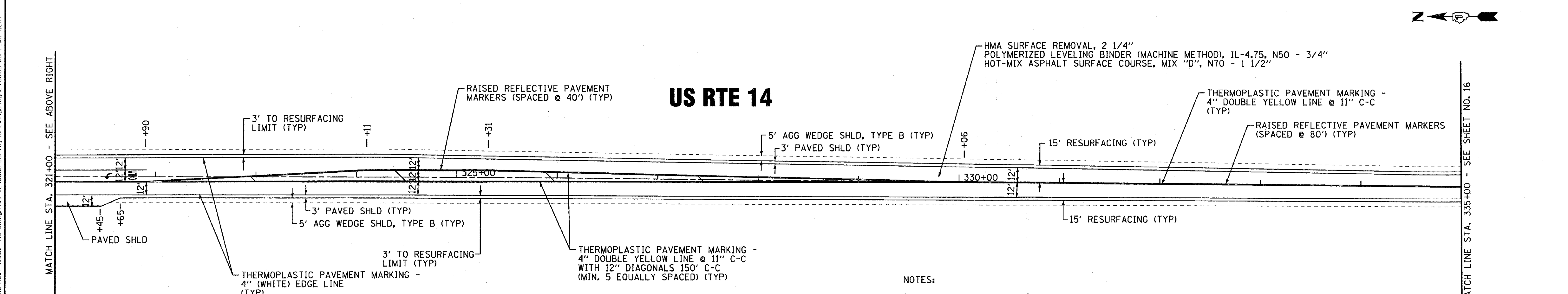
DESIGNED - DSH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
DRAWN - RKM / CJC	REVISED -	
CHECKED - RWL	REVISED -	
DATE - 11-01-10	FILE - 100153-W02-PLAN-6.sht	

US ROUTE 14
PARK LANE DRIVE TO IL ROUTE 47
ROADWAY & PAVEMENT MARKING PLAN

SCALE: 1" 50' | STA. 278+00 TO STA. 307+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	28 R-2 RS-3	McHENRY	32	14
C-91-609-10		CONTRACT NO. 60K84		
FED. ROAD DIST. NO. 1	ILLINOIS	FED AID PROJECT		





NOTES:

1. ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED BY THE RESIDENT ENGINEER.
2. REFER TO DISTRICT 1 TYPICAL PAVEMENT MARKINGS (TC-13) FOR ADDITIONAL INFORMATION.
3. REFER TO DISTRICT 1 RAISED REFLECTIVE PAVEMENT MARKERS (TC-11) FOR ADDITIONAL INFORMATION.

BAXTER & WOODMAN Consulting Engineers

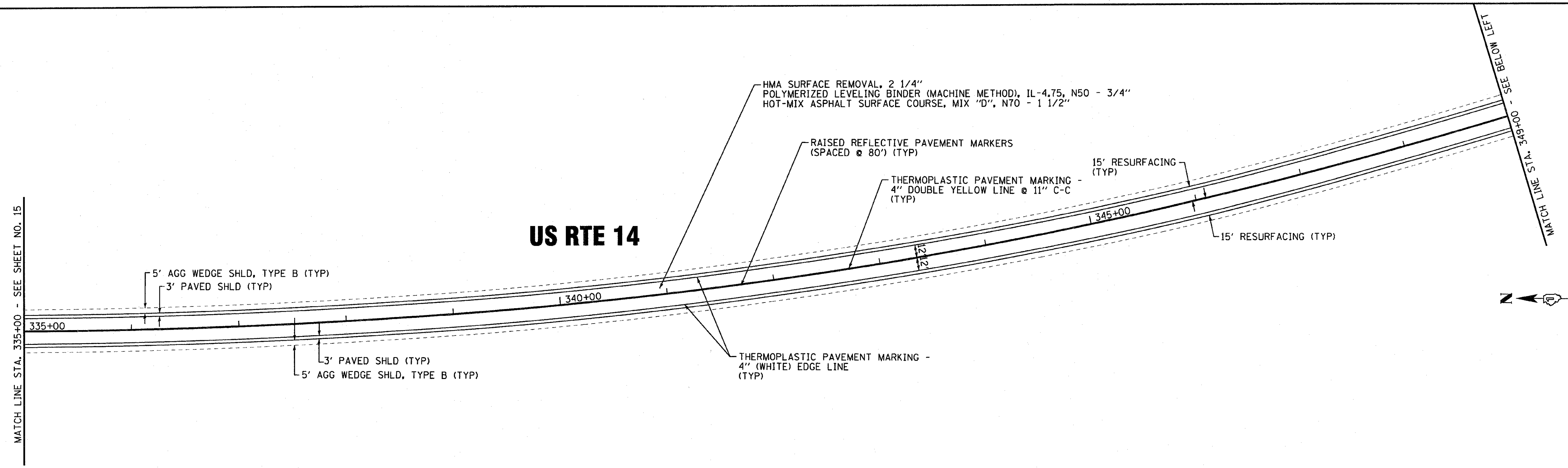
DESIGNED - DSH	REVISED -	
DRAWN - RKM / CJC	REVISED -	
CHECKED - RWL	REVISED -	
DATE - 11-01-10	FILE - 100153-W01-PLAN-7.sht	

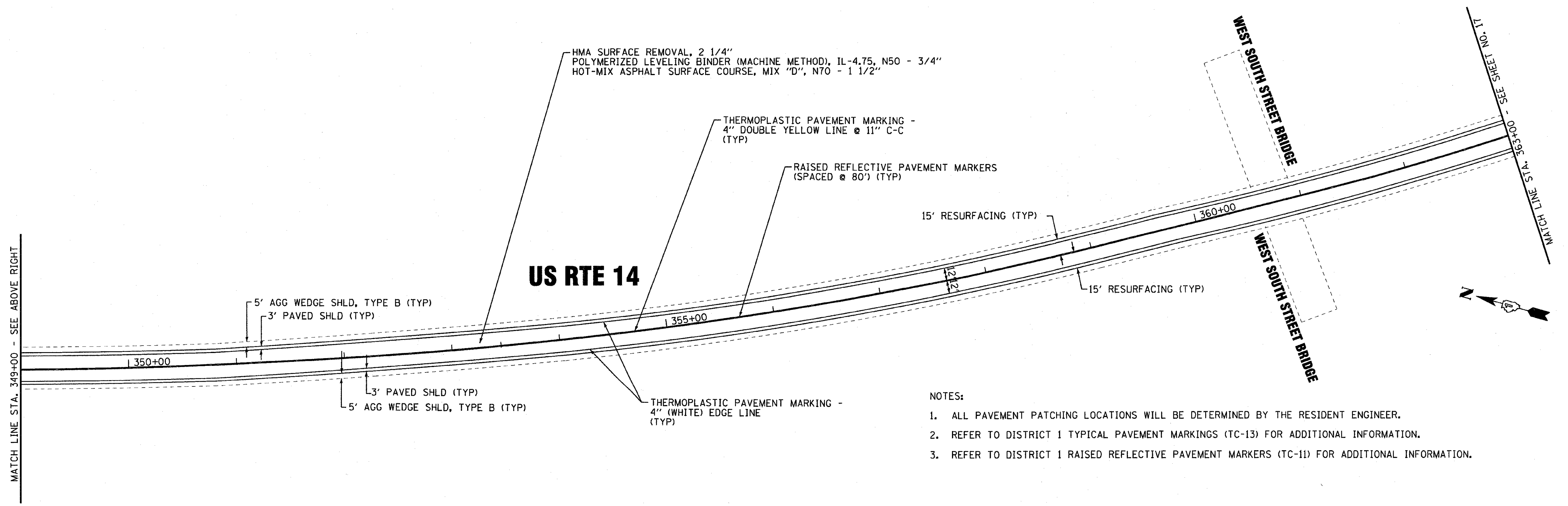
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 14
PARK LANE DRIVE TO IL ROUTE 47
ROADWAY & PAVEMENT MARKING PLAN

SCALE: 1" 50' | STA. 307+00 TO STA. 335+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	28 R-2 RS-3	McHENRY	32	15
C-91-609-10		CONTRACT NO. 60K84		
FED. ROAD DIST. NO. 1	ILLINOIS	FED AID PROJECT		





NOTES:

1. ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED BY THE RESIDENT ENGINEER.
2. REFER TO DISTRICT 1 TYPICAL PAVEMENT MARKINGS (TC-13) FOR ADDITIONAL INFORMATION.
3. REFER TO DISTRICT 1 RAISED REFLECTIVE PAVEMENT MARKERS (TC-11) FOR ADDITIONAL INFORMATION.

BAXTER & WOODMAN Consulting Engineers

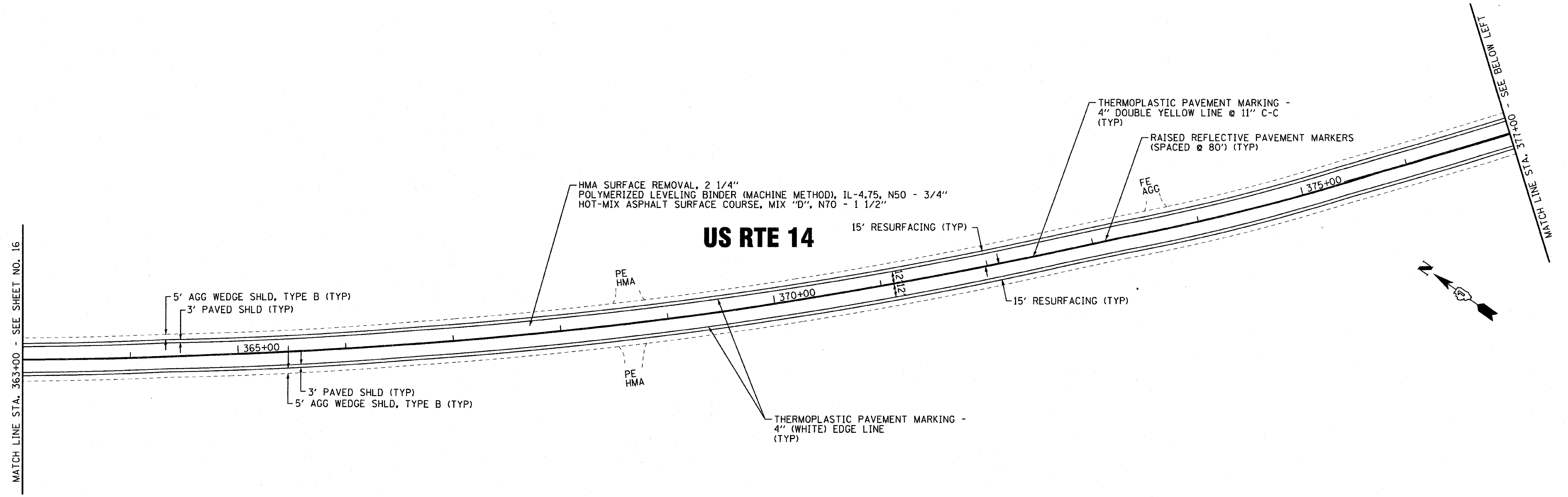
DESIGNED - DSH	REVISED -	
DRAWN - RKM / CJC	REVISED -	
CHECKED - RWL	REVISED -	
DATE - 11-01-10	FILE - 100153-W01-PLAN-8.sht	

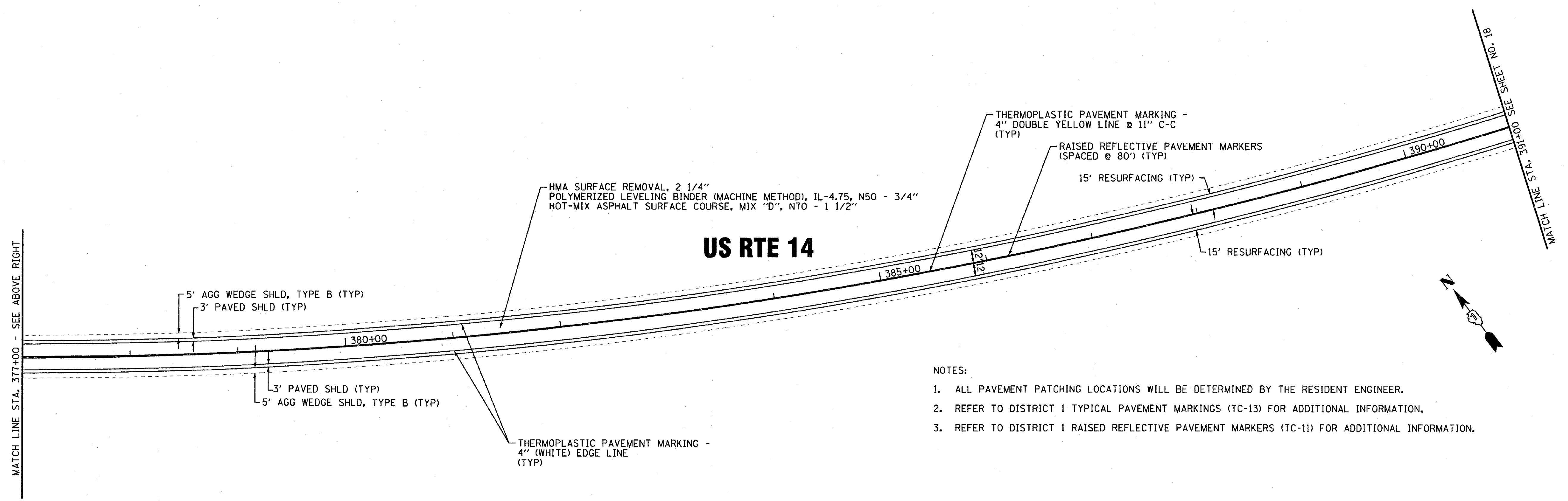
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 14
PARK LANE DRIVE TO IL ROUTE 47
ROADWAY & PAVEMENT MARKING PLAN

SCALE: 1" 50' | STA. 335+00 TO STA. 363+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	28 R-2 RS-3	McHENRY	32	16
C-91-609-10		CONTRACT NO. 60K84		
FED. ROAD DIST. NO. 1	ILLINOIS	FED AID PROJECT		





NOTES:

1. ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED BY THE RESIDENT ENGINEER.
2. REFER TO DISTRICT 1 TYPICAL PAVEMENT MARKINGS (TC-13) FOR ADDITIONAL INFORMATION.
3. REFER TO DISTRICT 1 RAISED REFLECTIVE PAVEMENT MARKERS (TC-11) FOR ADDITIONAL INFORMATION.

BAXTER & WOODMAN Consulting Engineers

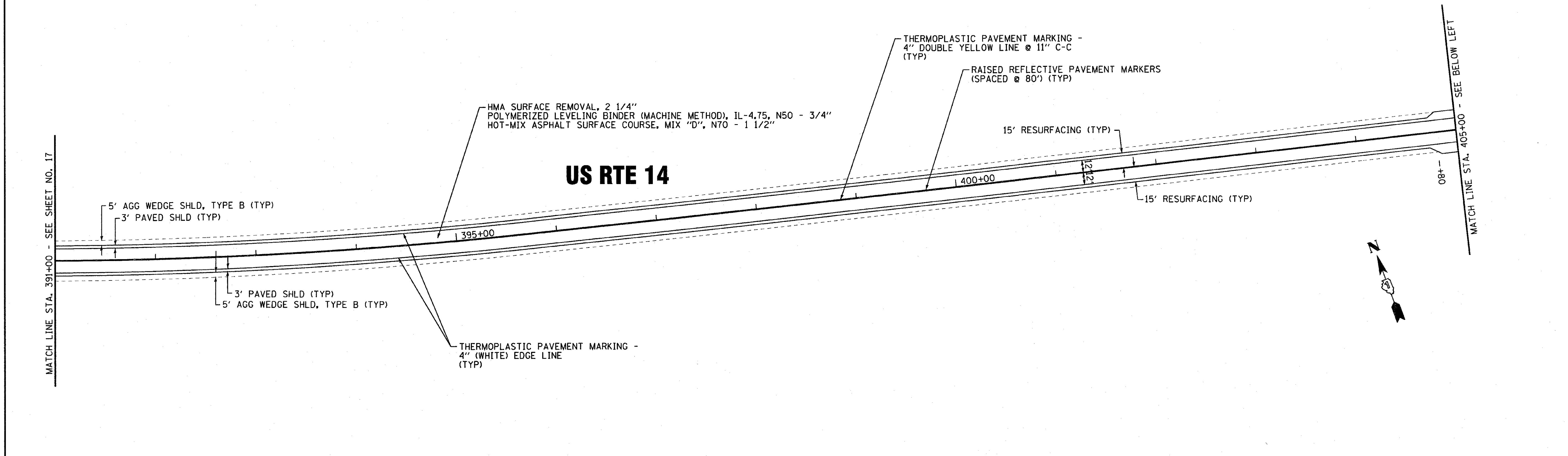
DESIGNED - DSH	REVISED -	
DRAWN - RKM / CJC	REVISED -	
CHECKED - RWL	REVISED -	
DATE - 11-01-10	FILE - 100153-W01-PLAN-9.sht	

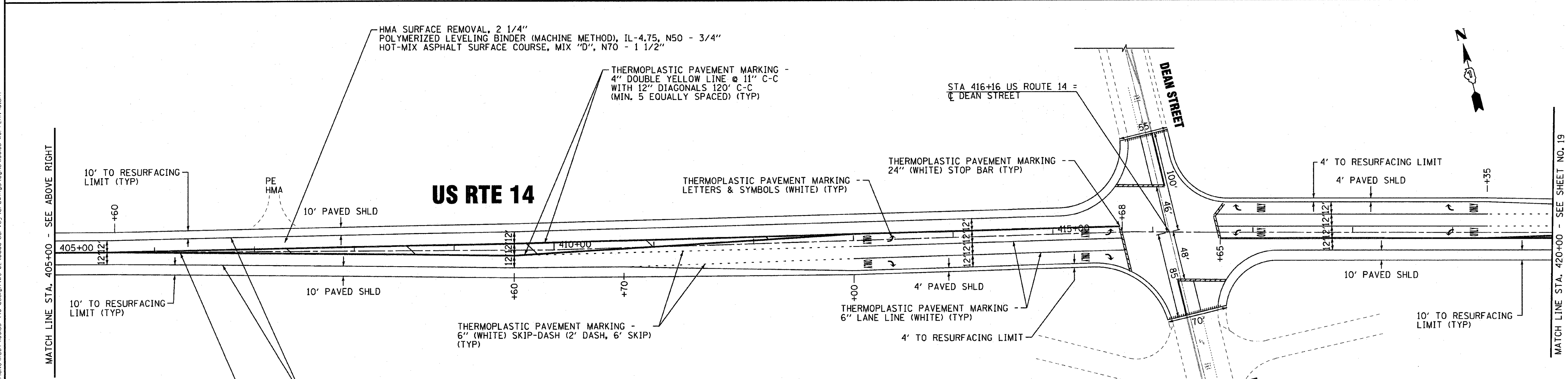
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 14
PARK LANE DRIVE TO IL ROUTE 47
ROADWAY & PAVEMENT MARKING PLAN

SCALE: 1" 50' | STA. 363+00 TO STA. 391+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	28 R-2 RS-3	McHENRY	32	17
C-91-609-10		CONTRACT NO. 60K84		
FED. ROAD DIST. NO. 1	ILLINOIS	FED AID PROJECT		





NOTES:

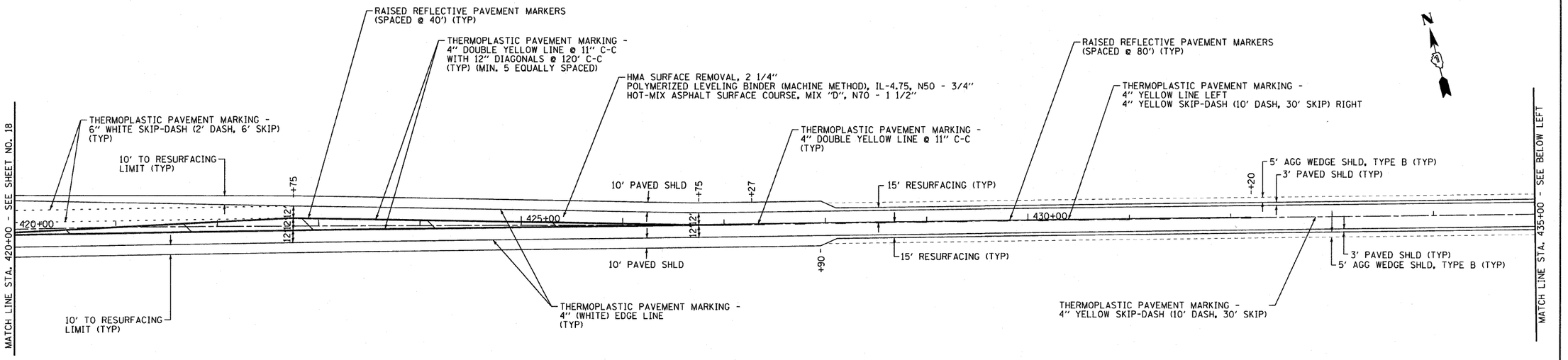
1. ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED BY THE RESIDENT ENGINEER.
2. REFER TO DISTRICT 1 TYPICAL PAVEMENT MARKINGS (TC-13) FOR ADDITIONAL INFORMATION.
3. REFER TO DISTRICT 1 RAISED REFLECTIVE PAVEMENT MARKERS (TC-11) FOR ADDITIONAL INFORMATION.

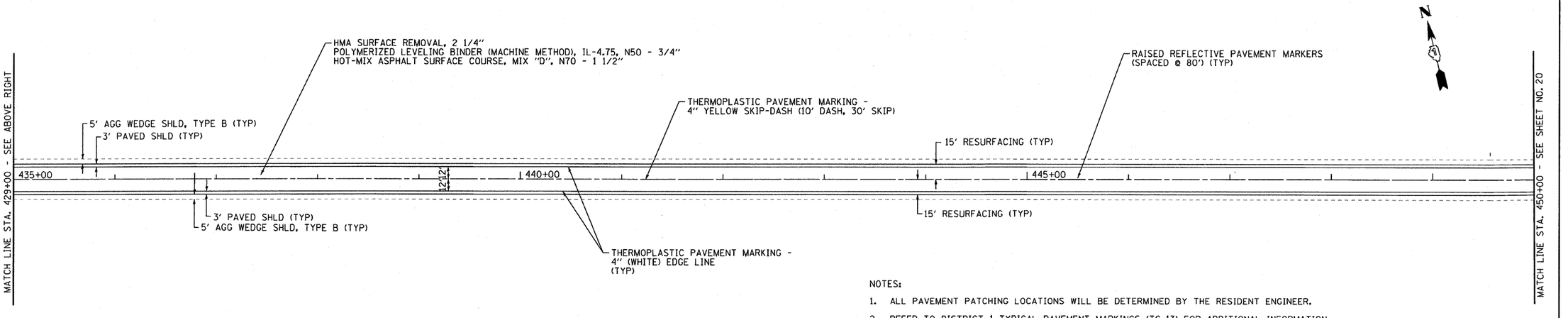
BAXTER & WOODMAN Consulting Engineers	DESIGNED - DSH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - RKM / CJC	REVISED -	
	CHECKED - RWL	REVISED -	
	DATE - 11-01-10	FILE - 100153-W01-PLAN-10.sht	

US ROUTE 14
PARK LANE DRIVE TO IL ROUTE 47
ROADWAY & PAVEMENT MARKING PLAN

SCALE: 1" 50' | STA. 391+00 TO STA. 420+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	28 R-2 RS-3	McHENRY	32	18
C-91-609-10		CONTRACT NO. 60K84		
FED. ROAD DIST. NO. 1	ILLINOIS	FED AID PROJECT		



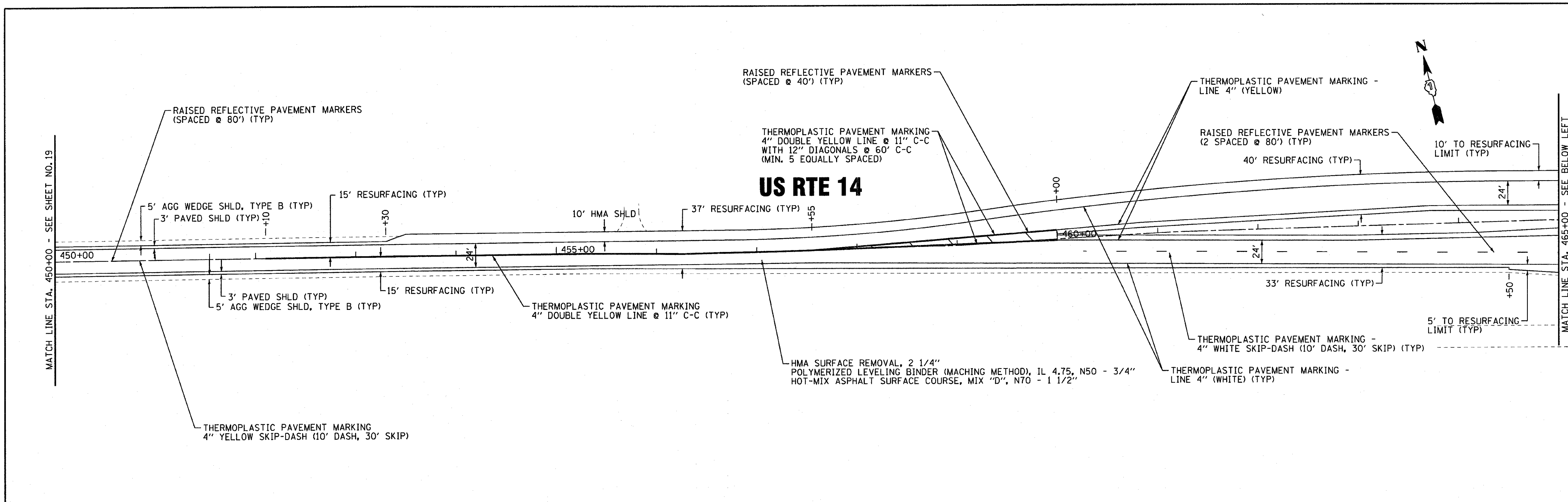


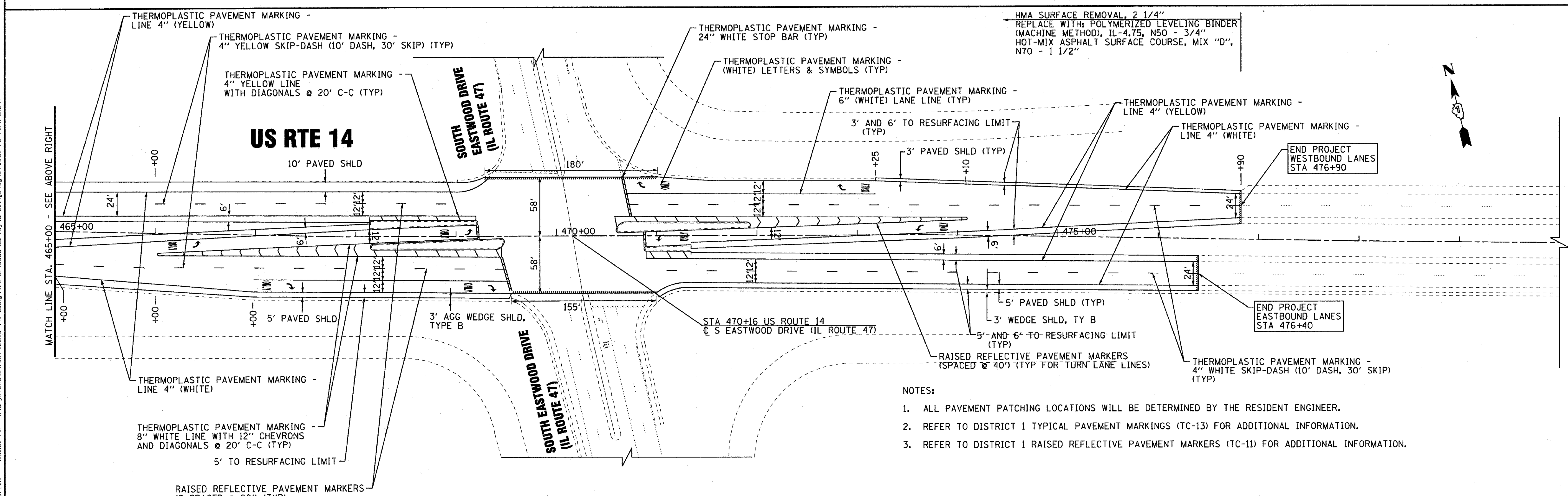
NOTES:

1. ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED BY THE RESIDENT ENGINEER.
2. REFER TO DISTRICT 1 TYPICAL PAVEMENT MARKINGS (TC-13) FOR ADDITIONAL INFORMATION.
3. REFER TO DISTRICT 1 RAISED REFLECTIVE PAVEMENT MARKERS (TC-11) FOR ADDITIONAL INFORMATION.

DESIGNED - DSH	REVISED -	**STATE OF ILLINOIS**	**US ROUTE 14**
DRAWN - RKM / CJC	REVISED -	**DEPARTMENT OF TRANSPORTATION**	**PARK LANE DRIVE TO IL ROUTE 47**
CHECKED - RWL	REVISED -		**ROADWAY & PAVEMENT MARKING PLAN**
DATE - 11-01-10	FILE - 100153-W01-PLAN-11.sht		SCALE: 1" 50' — STA. 420+00 TO STA. 450+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	28 R-2 RS-3	McHENRY	32	19
C-91-609-10		CONTRACT NO. 60K84		
FED. ROAD DIST. NO. 1	ILLINOIS	FED AID PROJECT		





NOTES:

1. ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED BY THE RESIDENT ENGINEER.
2. REFER TO DISTRICT 1 TYPICAL PAVEMENT MARKINGS (TC-13) FOR ADDITIONAL INFORMATION.
3. REFER TO DISTRICT 1 RAISED REFLECTIVE PAVEMENT MARKERS (TC-11) FOR ADDITIONAL INFORMATION.

BAXTER & WOODMAN Consulting Engineers

DESIGNED - DSH	REVISED -	
DRAWN - RKM / CJC	REVISED -	
CHECKED - RWL	REVISED -	
DATE - 11-01-10	FILE - 100153-W01-PLAN-12.sht	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 14
PARK LANE DRIVE TO IL ROUTE 47
ROADWAY & PAVEMENT MARKING PLAN

SCALE: 1"=50' | STA. 450+00 TO STA. 480+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	28 R-2 RS-3	McHENRY	32	20
C-91-609-10		CONTRACT NO. 60K84		
FED. ROAD DIST. NO. 1	ILLINOIS	FED AID PROJECT		

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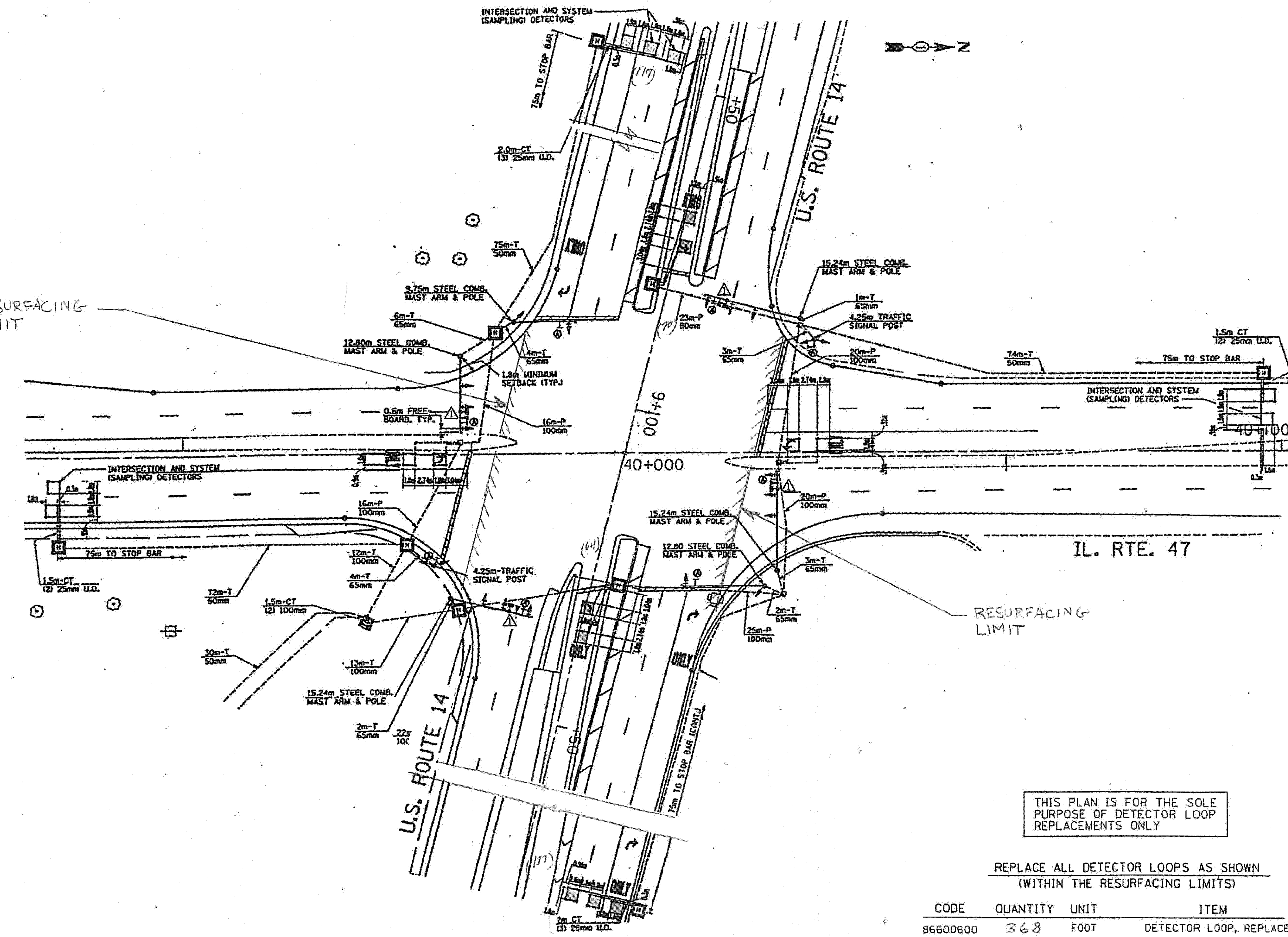


THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENTS ONLY

REPLACE ALL DETECTOR LOOPS AS SHOWN
(WITHIN THE RESURFACING LIMITS)

CODE	QUANTITY	UNIT	ITEM
86600600	368	FOOT	DETECTOR LOOP, REPLACEMENT

BAXTER & WOODMAN Consulting Engineers

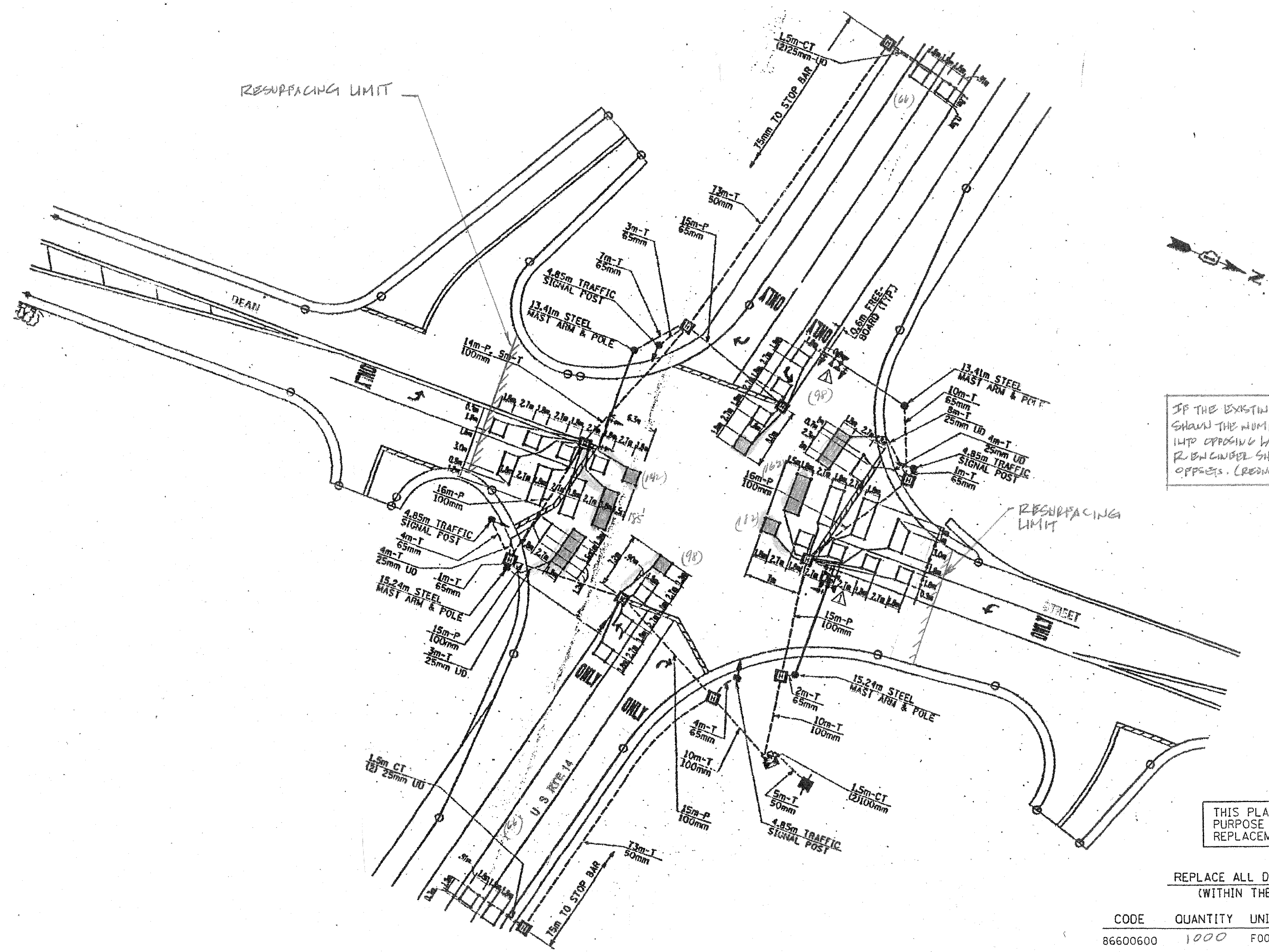
DESIGNED - DSH	REVISED -
DRAWN - RKM / CJC	REVISED -
CHECKED - RWL	REVISED -
DATE - 11-01-10	FILE - 100153-W02-det_loops-1.sht

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE – DETECTOR LOOP REPLACEMENT
U.S. ROUTE 14 @ ILL. ROUTE 47

SCALE: NONE | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	28 R-2 RS-3	McHENRY	32	21
C-91-609-10		CONTRACT NO. 60K84		
FED. ROAD DIST. NO. 1	ILLINOIS	FED AID PROJECT		



IF THE EXISTING LOOPS ARE INSTALLED AS SHOWN THE NUMBER OF LOOPS SHOWN TO FAR INTO OPPOSING LANES WILL BE REDUCED. THE ENGINEER SHALL DETERMINE LOCATION AND OFFSETS. (REDUCE LOOPS THAT ARE SHADED)

THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENTS ONLY

REPLACE ALL DETECTOR LOOPS AS SHOWN
(WITHIN THE RESURFACING LIMITS)

CODE	QUANTITY	UNIT	ITEM
86600600	1000	FOOT	DETECTOR LOOP, REPLACEMENT

BAXTER & WOODMAN Consulting Engineers

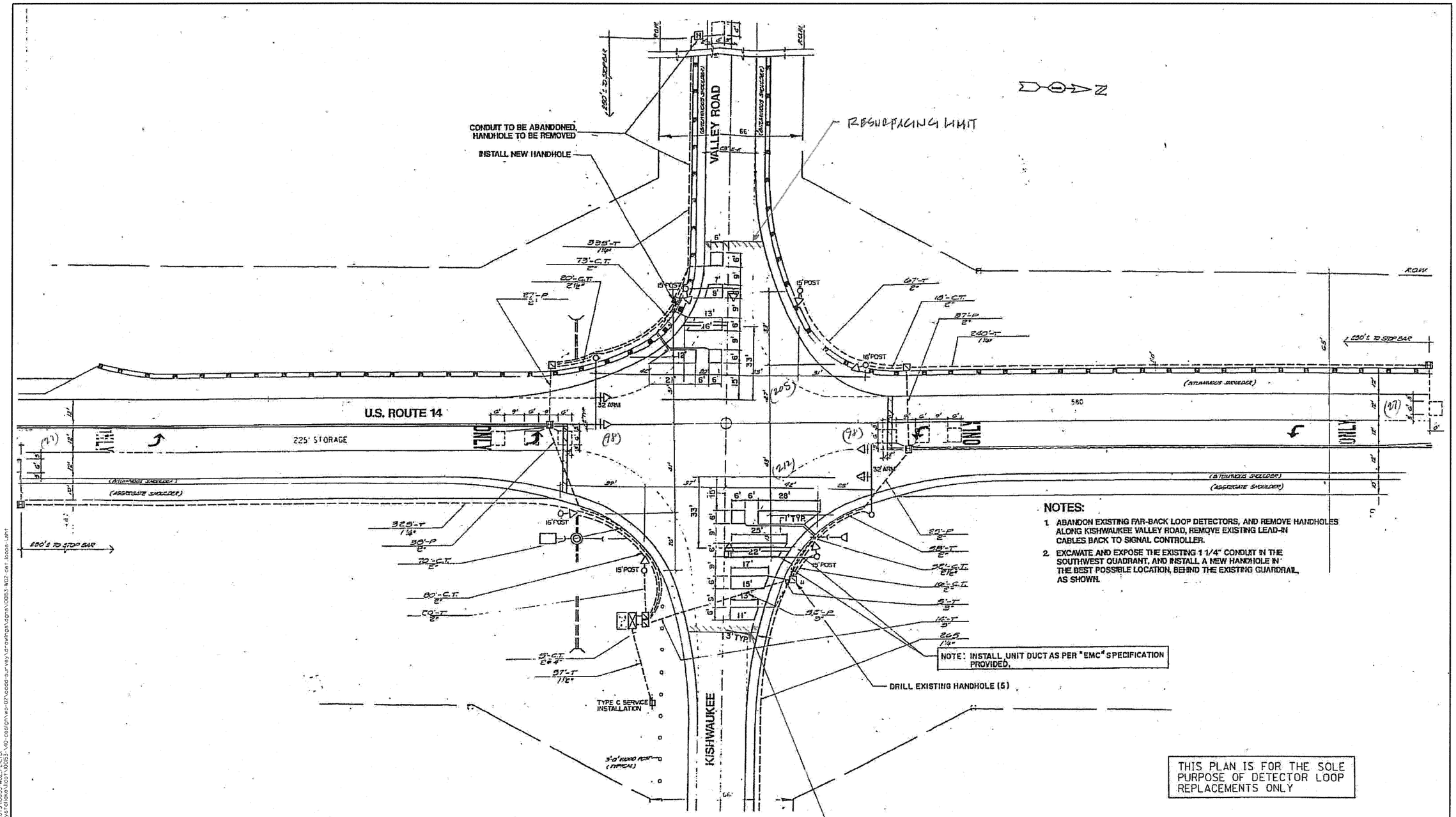
DESIGNED - DSH	REVISED -	
DRAWN - RKM / CJC	REVISED -	
CHECKED - RWL	REVISED -	
DATE - 11-01-10	FILE - 100153-W02-det_loops-1.sht	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE – DETECTOR LOOP REPLACEMENT
U.S. ROUTE 14 @ DEAN STREET

SCALE: NONE | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	28 R-2 RS-3	McHENRY	32	22
	C-91-609-10	CONTRACT NO. 60K84		
FED. ROAD DIST. NO. 1	ILLINOIS	FED AID PROJECT		



NOTES:

1. ABANDON EXISTING FAR-BACK LOOP DETECTORS, AND REMOVE HANDHOLES ALONG KISHWAUKEE VALLEY ROAD, REMOVE EXISTING LEAD-IN CABLES BACK TO SIGNAL CONTROLLER.
2. EXCAVATE AND EXPOSE THE EXISTING 1 1/4" CONDUIT IN THE SOUTHWEST QUADRANT, AND INSTALL A NEW HANDHOLE IN THE BEST POSSIBLE LOCATION, BEHIND THE EXISTING GUARDRAIL, AS SHOWN.

THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENTS ONLY

REPLACE ALL DETECTOR LOOPS AS SHOWN
(WITHIN THE RESURFACING LIMITS)

CODE	QUANTITY	UNIT	ITEM
86600600	673	FOOT	DETECTOR LOOP, REPLACEMENT

BAXTER & WOODMAN Consulting Engineers

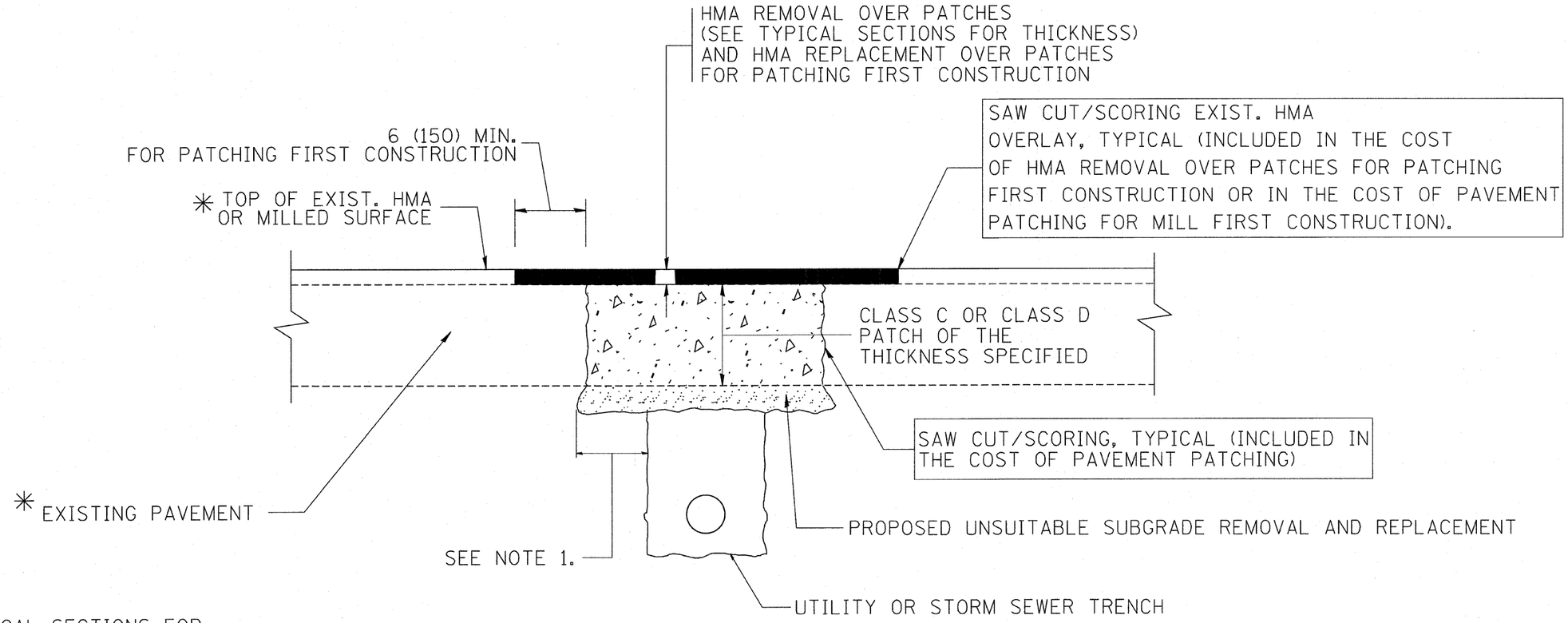
DESIGNED	DSH	REVISED	-
DRAWN	RKM / CJC	REVISED	-
CHECKED	RWL	REVISED	-
DATE	11-01-10	FILE	100153-W02-det_loops-1.sht

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE – DETECTOR LOOP REPLACEMENT
U.S. ROUTE 14 @ KISHWAUKEE VALLEY ROAD

SCALE: NONE | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	28 R-2 RS-3	McHENRY	32	23
C-91-609-10		CONTRACT NO. 60K84		
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 (PATCHING FIRST)

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

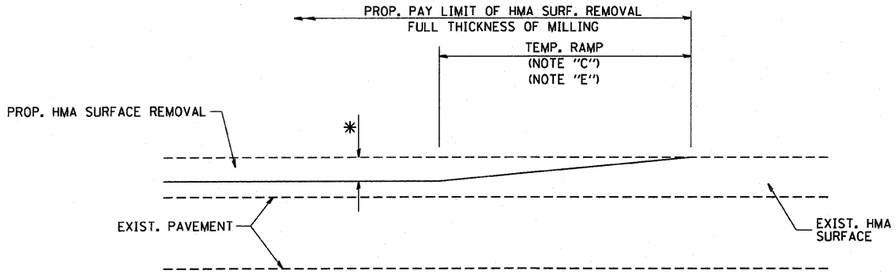
SEQUENCE OF CONSTRUCTION (MILLING FIRST)

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

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

FILE NAME = c:\projects\diststd22x34\bd22.dgn	USER NAME = bauerdl	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED - R. BORO 01-01-07					305	28 R-2 RS-3	McHENRY	32	24
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - R. BORO 09-04-07					BD400-04 (BD-22)		CONTRACT NO. 60K84		
	PLOT DATE = 10/27/2008	DATE - 10-25-94	REVISED - K. ENG 10-27-08		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

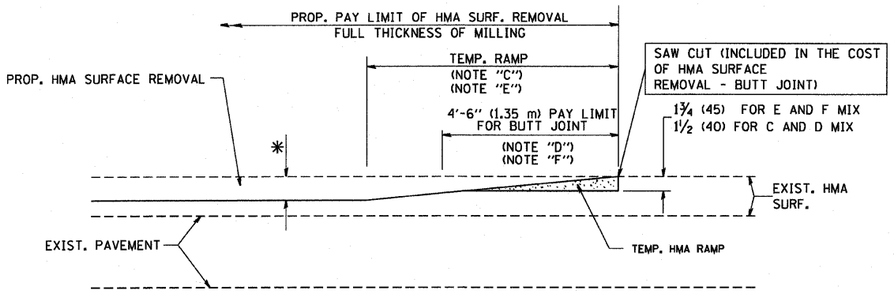
C-91-609-10



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

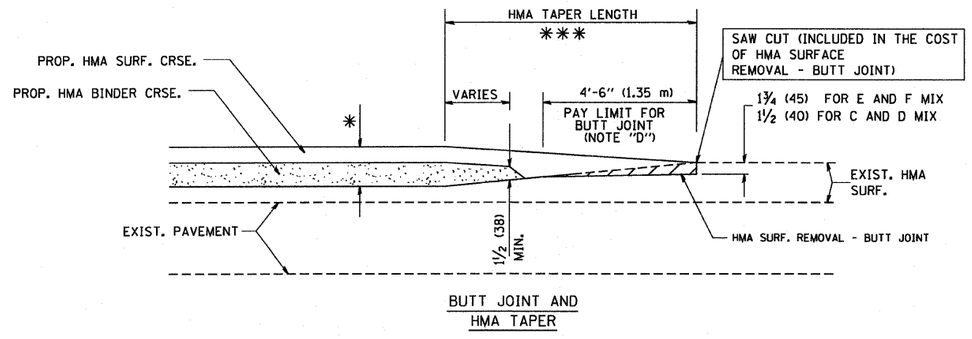


HMA CONSTRUCTED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

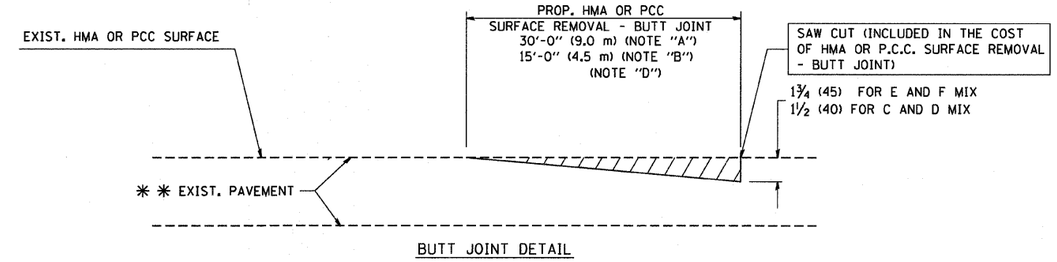
OPTION 2

TYPICAL TEMPORARY RAMP

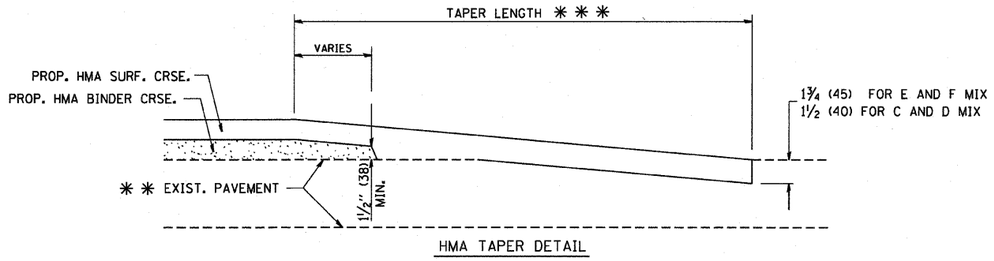


BUTT JOINT AND HMA TAPER

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")

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".

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

FILE NAME = W:\diststd\22x34\bd32.dgn	USER NAME = gaglionobt	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07

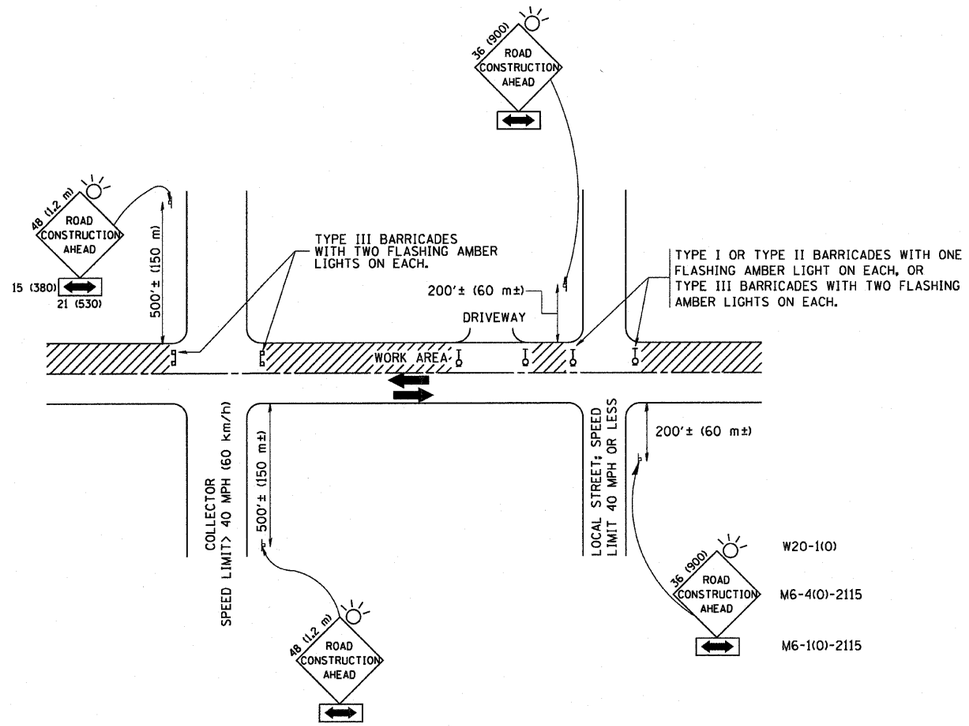
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	28 R-2 RS-3	McHENRY	32	25
	BD400-05 BD32	CONTRACT NO. 60X84		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

C-91-609-10



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.

2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.

3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

FILE NAME = W:\diststd\22x34\tc10.dgn	USER NAME = gaglionobt	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED -T. RAMMACHER 01-06-00

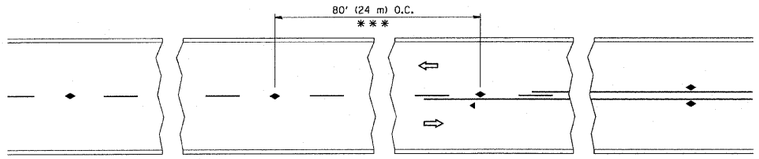
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

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

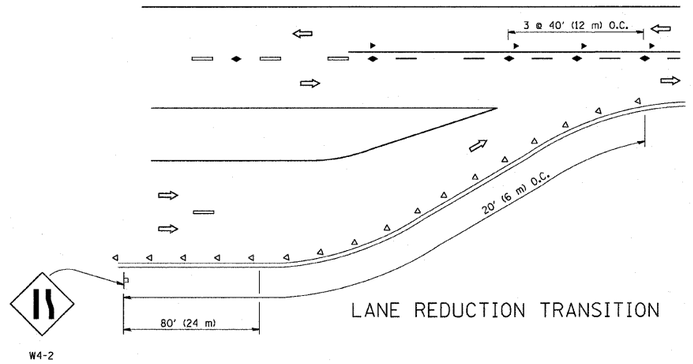
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	28 R-2 RS-3	McHENRY	32	26
	TC-10	CONTRACT NO. 60K84		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

C-91-609-10

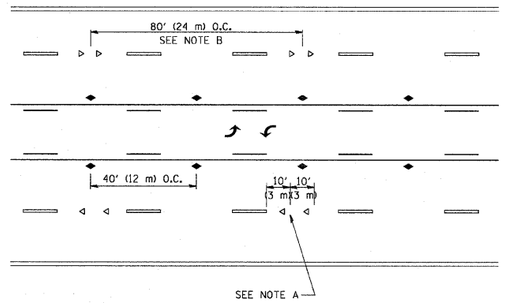


* * * REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

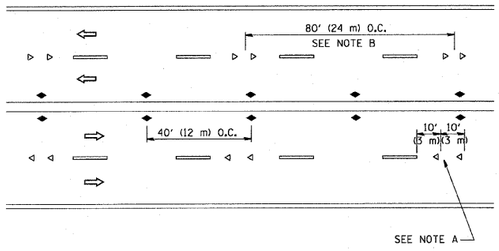
TWO-LANE/TWO-WAY



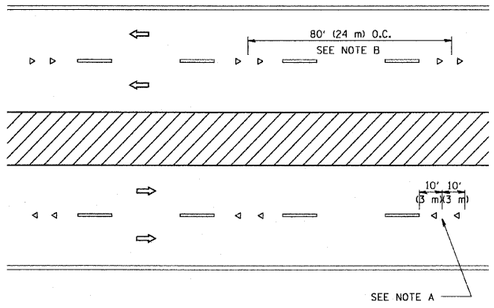
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

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

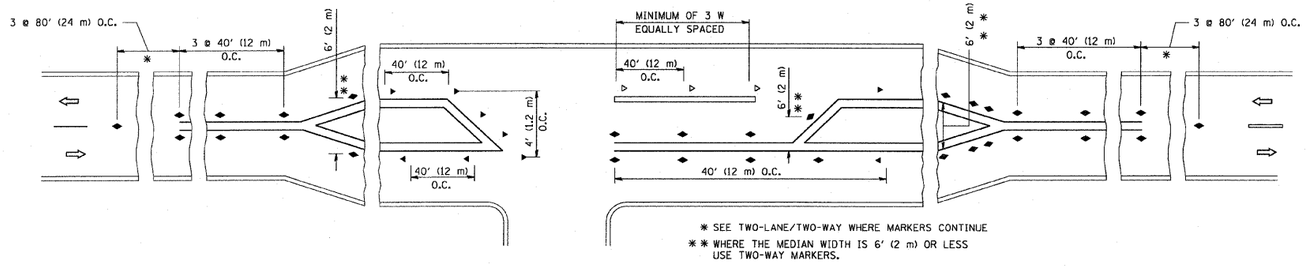
LANE MARKER NOTES

A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR 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.



* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE

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

LEFT TURN

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

FILE NAME = c:\pw_work\pwidot\drivakosgn\d0183515\tc11.dgn	USER NAME = drivakosgn	DESIGNED -	REVISED - T. RAMMACHER 09-19-94
		DRAWN -	REVISED - T. RAMMACHER 03-12-99
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED - T. RAMMACHER 01-06-00
	PLOT DATE = 9/9/2009	DATE -	REVISED - C. JUCIUS 09-09-09

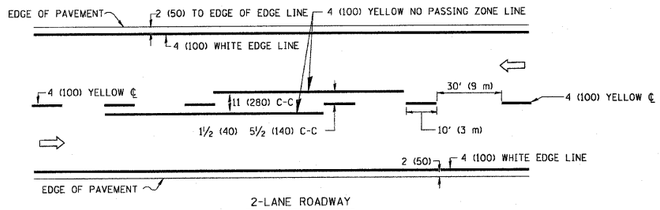
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

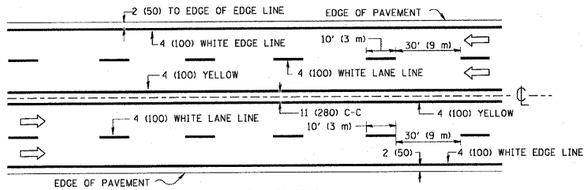
SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	28 R-2 RS-3	McHENRY	32	27
	TC-11	CONTRACT NO. 60K84		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

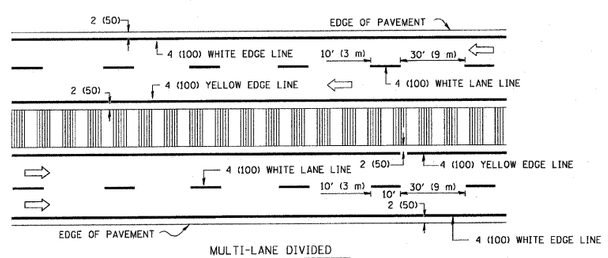
C-91-609-10



2-LANE ROADWAY



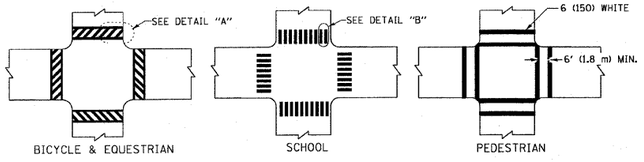
MULTI-LANE UNDIVIDED

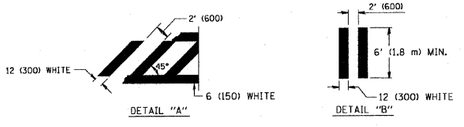


MULTI-LANE DIVIDED
WITH MOUNTABLE MEDIAN

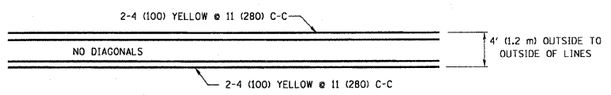
NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

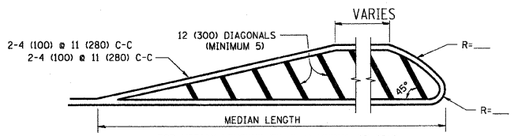




TYPICAL CROSSWALK MARKING



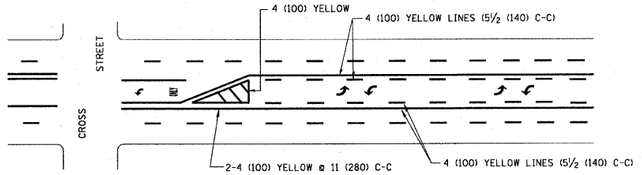
4' (1.2 m) WIDE MEDIANS ONLY



FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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

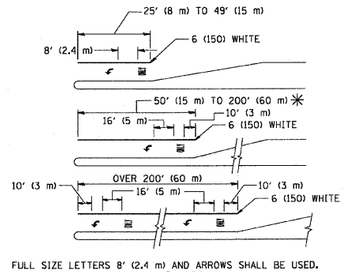
MEDIANS OVER 4' (1.2 m) WIDE



A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.

MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

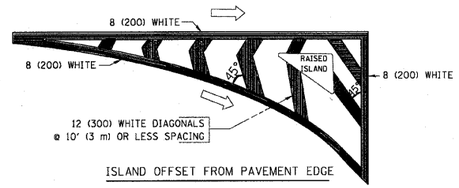


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
↰ AREA = 15.6 SQ. FT. (1.5 m²) **ONLY** AREA = 20.8 SQ. FT. (1.9 m²)

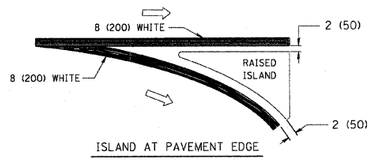
✳ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

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	5½ (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; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 ⌀ 6 (150) 12 (300) ⌀ 45° 12 (300) ⌀ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 ⌀ 4 (100) WITH 12 (300) DIAGONALS ⌀ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS ⌀ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
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 inches (millimeters) unless otherwise shown.

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	PLOT SCALE = 50.000 ' / IN.	DRAWN -	REVISED -C. JUCIUS 09-09-09
	PLOT DATE = 9/9/2009	CHECKED -	REVISED -
		DATE - 03-19-90	REVISED -

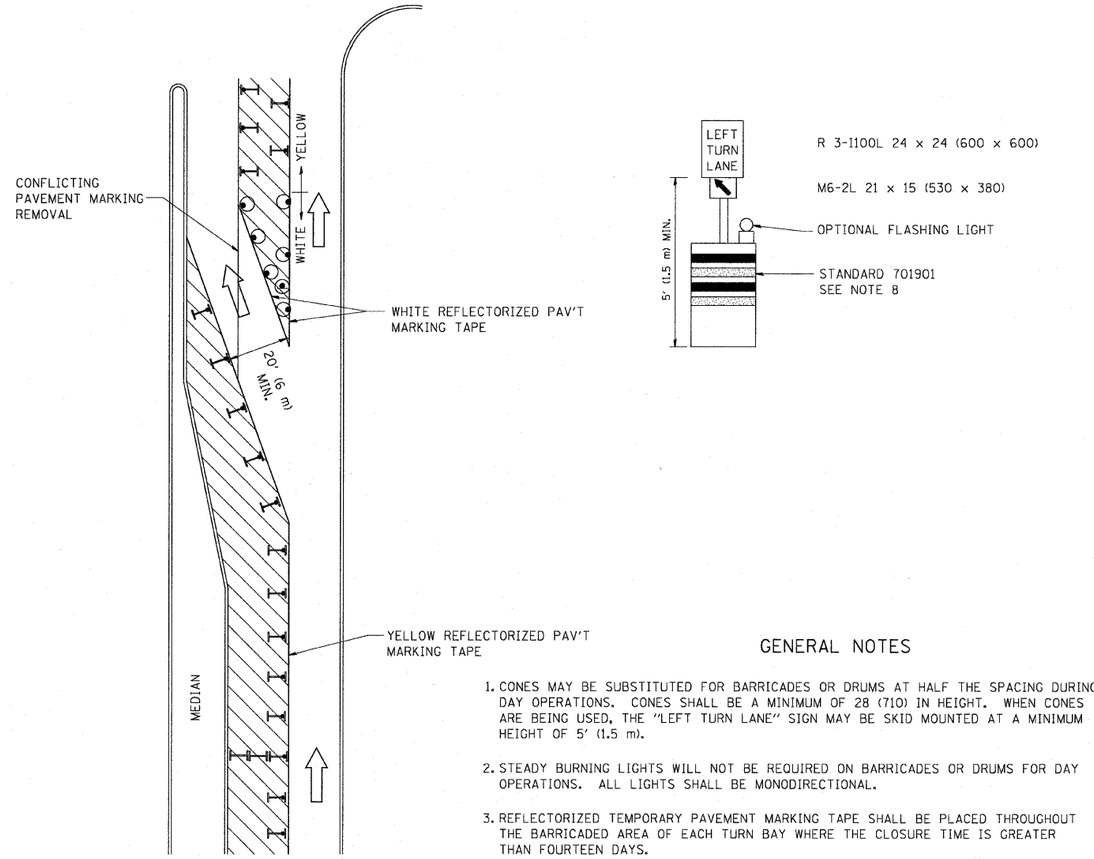
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	28 R-2 RS-3	McHENRY	32	28
	TC-13	CONTRACT NO. 60K84		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

C-91-609-10



GENERAL NOTES

1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM OPER 725 IS REQUIRED.
8. IF A DRUM OR TYPE II BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHR 350 PREQUIREMENTS.
9. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

FILE NAME = c:\pw_work\PWIDOT\DRIVAKOSGN\d0108315\tc14.dgn	USER NAME = drivakosgn	REVISED -T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09
	PLOT SCALE = 49.9999 ' / IN.	REVISED - A. HOUSEH 11-07-95	REVISED -
	PLOT DATE = 9/14/2009	REVISED - A. HOUSEH 10-12-96	REVISED -
		REVISED -T. RAMMACHER 01-06-00	REVISED -

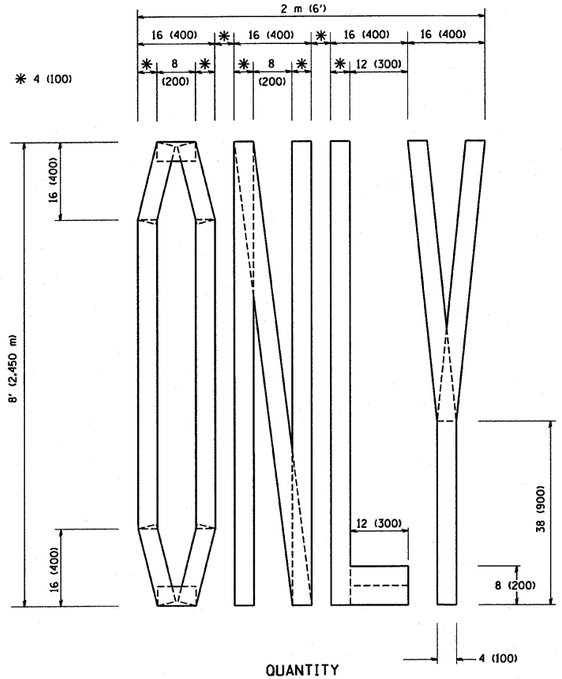
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)

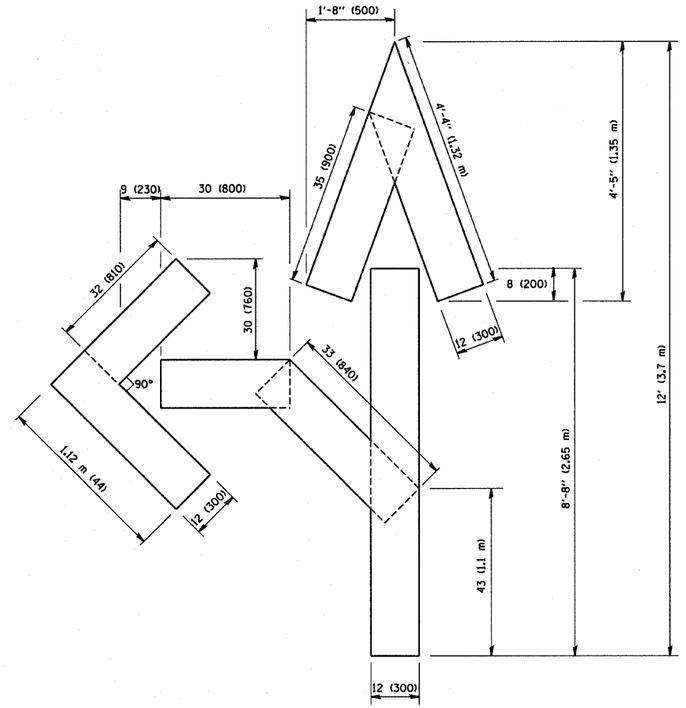
SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	28 R-2 RS-3	McHENRY	32	29
	TC-14	CONTRACT NO. 60K84		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

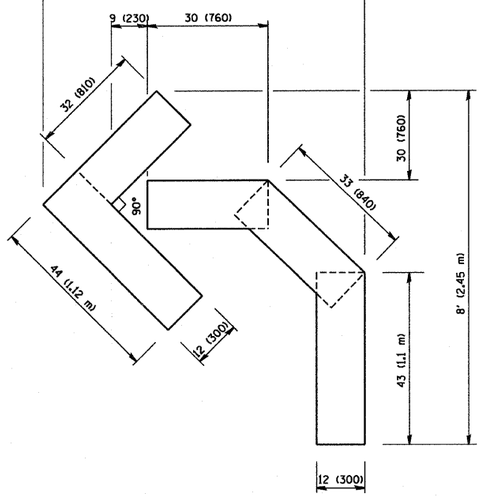
C-91-609-10



QUANTITY
4 (100) LINE = 64.1 ft. (19.7 m)
21.1 sq. ft. (1.97 sq. m)



QUANTITY
4 (100) LINE = 82.5 ft. (25.3 m)
27.5 sq. ft. (2.53 sq. m)



QUANTITY
4 (100) LINE = 45.5 ft. (13.9 m)
15.2 sq. ft. (1.39 sq. m)

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

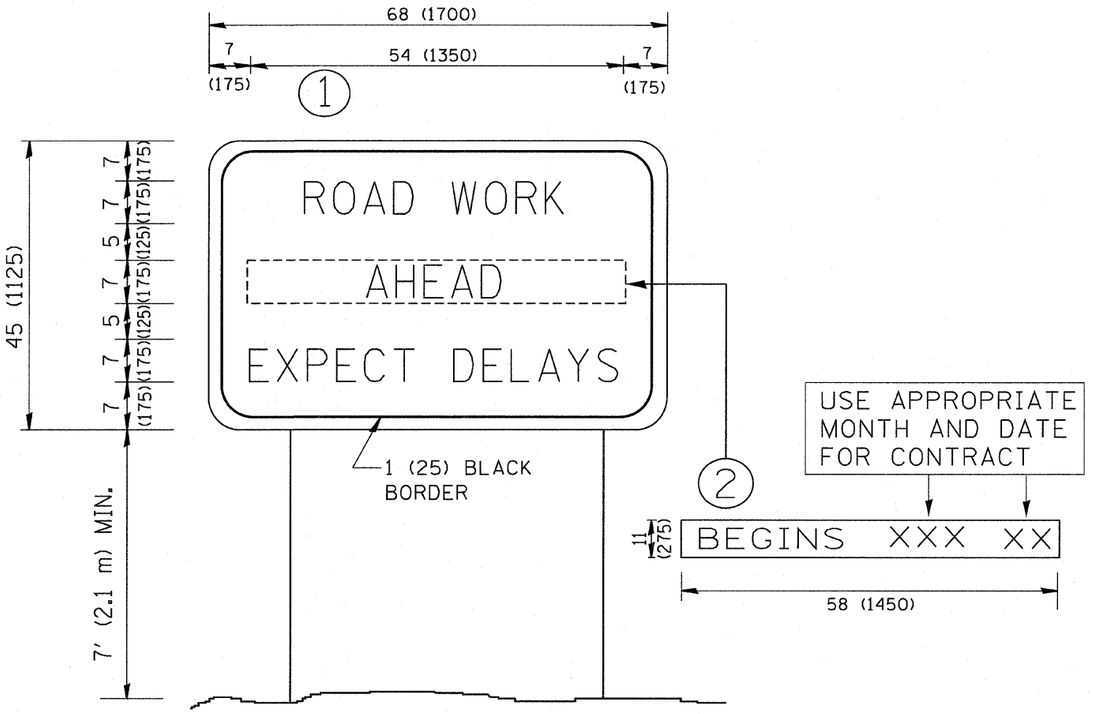
FILE NAME = W:\diststd\22x34\tc16.dgn	USER NAME = gaglianobt	DESIGNED -	REVISED -T. RAMMACHER 06-05-96
		DRAWN -	REVISED -T. RAMMACHER 11-04-97
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -T. RAMMACHER 03-02-98
	PLOT DATE = 1/4/2008	DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	28 R-2 RS-3	McHENRY	32	30
	TC-16	CONTRACT NO. 60K84		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT C-91-609-10		



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.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

FILE NAME = W:\diststd\22x34\tc22.dgn	USER NAME = gaglianobt	DESIGNED -	REVISED - R. MIRS 09-15-97
		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -T. RAMMACHER 02-02-99
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

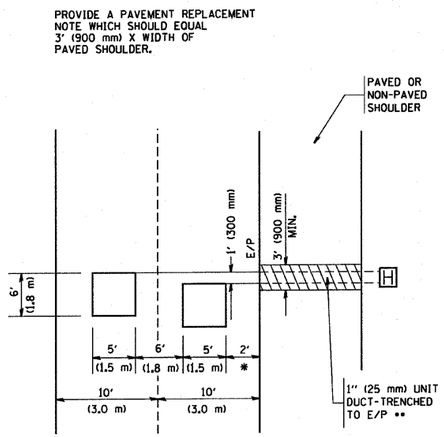
ARTERIAL ROAD INFORMATION SIGN

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	28 R-2 RS-3	McHENRY	32	31
	TC-22	CONTRACT NO. 60K84		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

C-91-609-10

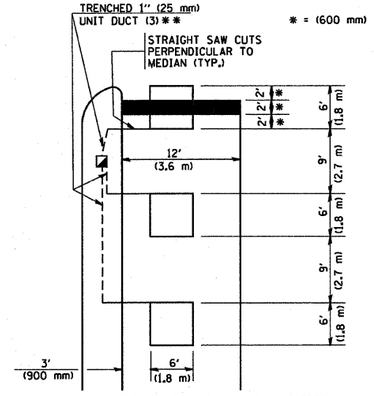
LOOPS NEXT TO SHOULDERS



* = (600 mm)

** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

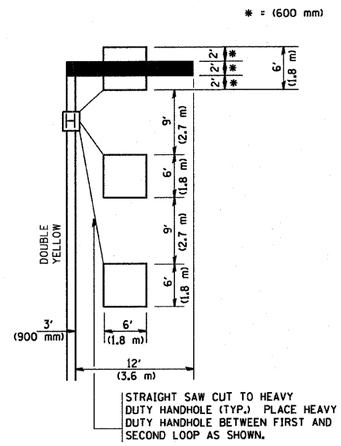
LEFT TURN LANES WITH MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH
(PROTECTED / PERMITTED LEFT TURN PHASING)



** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

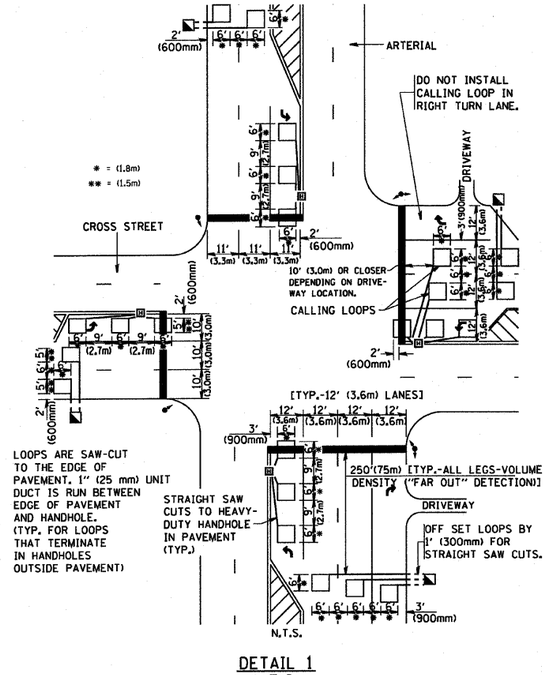
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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



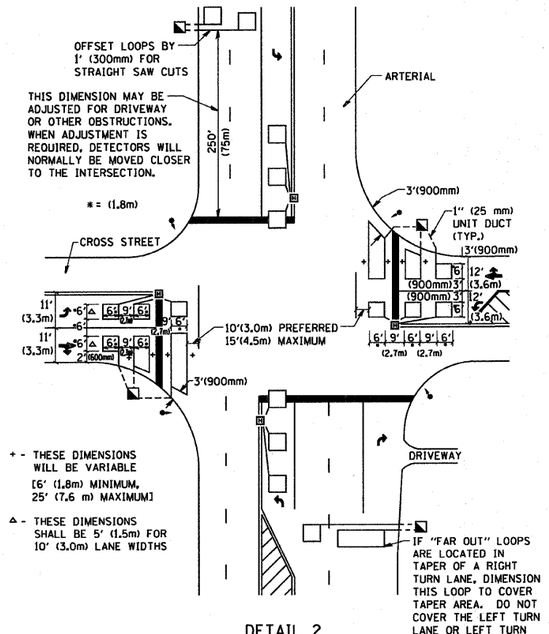
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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



DETAIL 1
N.T.S.

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



DETAIL 2
N.T.S.

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 SEPARATLY. 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.

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.

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		DRAWN -	REVISED -
	PLOT SCALE = 50.0000 ' / IN.	CHECKED - R.K.F.	REVISED -
	PLOT DATE = 1/4/2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 – DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	28 R-2 RS-3	McHENRY	32	32
	TS-07	CONTRACT NO. 60K84		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

C-91-609-10