

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED HIGHWAY PLANS**

F.A.P. ROUTE 326: ILL 47  
SOUTH OF ILL 176 TO UNION  
SECTION: 105X-RS-3  
RESURFACING

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE PROJECT IS LOCATED IN THE VILLAGES OF LAKE IN THE HILLS AND HUNTLEY

**TRAFFIC DATA**

ADT (2009) = 15,200

POSTED SPEED LIMIT = 45 MPH - 55 MPH

**McHENRY COUNTY**  
C-91-310-11

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105X-RS-3	McHENRY	25	1
		ILLINOIS	CONTRACT NO. 60N40	

D-91-310-11



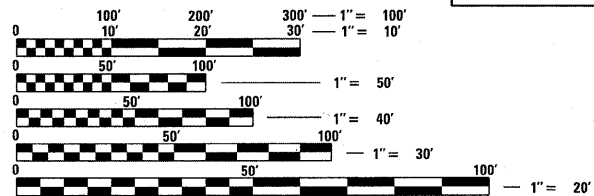
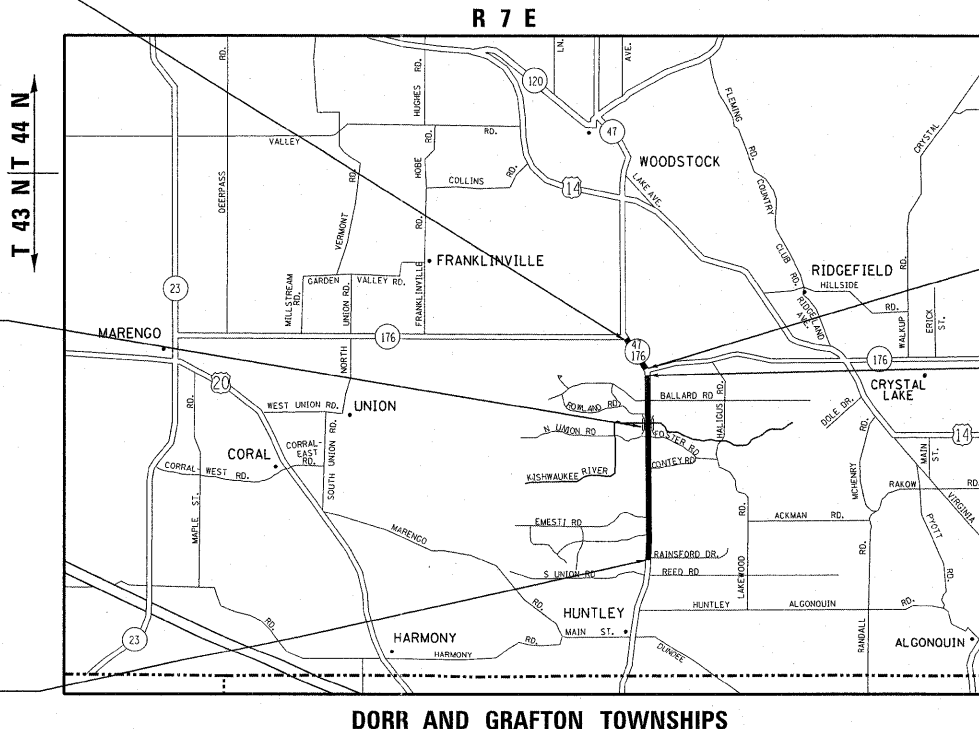
LOCATION OF SECTION INDICATED THUS: - [black rectangle] -

PROJECT ENDS: STA. 332 + 02

STA. 233 + 32 TO STA. 234 + 12  
SN 056-0025

OMISSION ENDS:  
STA. 293 + 75

OMISSION BEGINS:  
STA. 287 + 67.90



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 BEGINS: STA. 74 + 85

GROSS LENGTH = 25,717 FT. = 4.871 MILE  
NET LENGTH = 25,110 FT. = 4.756 MILE

PROJECT ENGINEER ROBERT BORO (847)705-4178  
PROJECT MANAGER ISSAM RAYYAN

CONTRACT NO. 60N40

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED OCTOBER 13, 20 11

Diane M. O'Keefe  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

December 9 20 11  
Scott E. Stitt, P.E.  
acting ENGINEER OF DESIGN AND ENVIRONMENT

December 9 20 11  
William R. Fleck  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS**

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**STATE STANDARDS**

STANDARD NO.	DESCRIPTION
442201-03	CLASS C AND D PATCHES
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
630301-05	SHOULDER WIDENING FOR TYPE 1 (SPECIAL), GUARDRAIL TERMINALS
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
<del>701011-02</del>	<del>LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS</del>
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
<del>701306-03</del>	<del>URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED</del>
<del>701501-06</del>	<del>URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED</del>
<del>701311-03</del>	<del>URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN</del>
<del>701606-08</del>	<del>URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN</del>
<del>701336-06</del>	<del>URBAN LANE CLOSURE, MULTILANE INTERSECTION</del>
<del>701502</del>	<del>URBAN LANE CLOSURE, MULTILANE INTERSECTION</del>
701701-08	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-02	TRAFFIC CONTROL DEVICES
780001-03	TYPICAL PAVEMENT MARKINGS

**GENERAL NOTES**

IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE A FIELD LABORATORY FOR USE FOR ANY ON SITE TESTING BY THE ENVIRONMENTAL FIRM. NO TESTING OF ANY KIND, CONTAMINATED OR NON-CONTAMINATED FLUID OR SOLID SHALL BE PERMITTED IN THE ENGINEER'S FIELD OFFICE.

THE RESIDENT ENGINEER SHALL CONTACT DEBBIE HANLON, AREA TRAFFIC ENGINEER AT (847) 438-2300 A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKING.

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

ALL PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE IMPROVEMENT ACCORDING TO DISTRICT 1 TYPICAL PAVEMENT MARKING.

RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED THROUGHOUT THE IMPROVEMENT ACCORDING TO THE DISTRICT STANDARDS AS NOTED IN THE DETAIL.

THE RESIDENT ENGINEER SHALL VERIFY THE LOCATIONS OF ALL EXISTING PAVEMENT MARKINGS PRIOR TO MILLING OR RESURFACING.

ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE OF THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.

PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES. THE COST OF THE PAVEMENT MARKING TAPE, TYPE III AND ITS REMOVAL SHALL BE INCLUDED IN THE COST OF SHORT TERM PAVEMENT MARKING AND WORK ZONE PAVEMENT MARKING REMOVAL RESPECTIVELY.

**GENERAL NOTES**

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

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, VILLAGES OF LAKE IN THE HILLS AND HUNTLEY.

ALL BROKEN, CRACKED, WORN OR OTHERWISE DAMAGED OR BICYCLE UNSAFE FRAMES AND LIDS ON SEWER STRUCTURES, SHALL BE REPLACED WITH NEW DEPARTMENT OF SEWERS' STANDARD FRAMES AND LIDS.

OPEN LID DRAINAGE STRUCTURES SHALL NOT BE CLOSED, COVERED OR OTHERWISE OBSTRUCTED DURING CONSTRUCTION OF THIS ROADWAY WITHOUT THE WRITTEN PERMISSION FROM THE VILLAGES OF ~~FOX RIVER CROVE OR NORTH BARRINGTON, LAKE IN THE HILLS AND HUNTLEY.~~

WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED ~~1 1/2 INCHES (40 mm) WHERE THE SPEED LIMIT IS 40 MPH (64 Km/h) OR LESS AND 1 INCH (25 mm) WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH (80 Km/h).~~ WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 4 INCHES (75 MM) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H), **OR A NOTCHED LONGITUDINAL WEDGE IS USED.**

UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURE AS DETERMINED AND APPROVED IN WRITING BY THE ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS, OVERNIGHT CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D PATCHING.

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

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

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

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

DRAINAGE ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

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

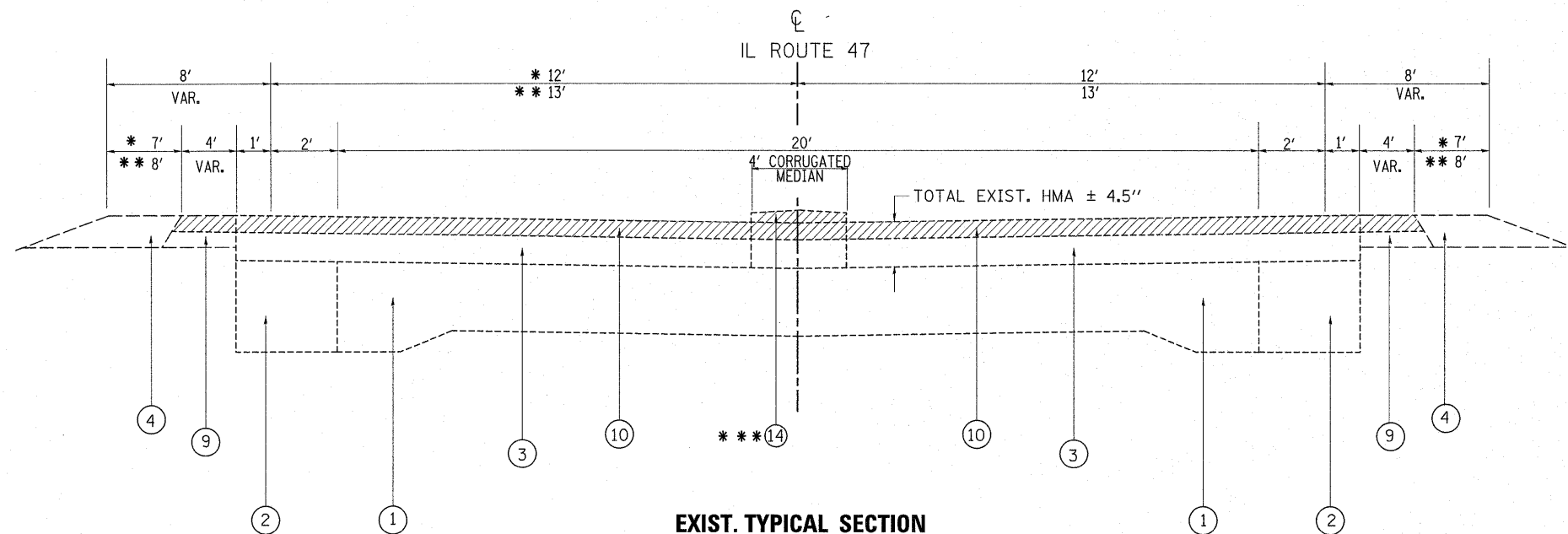
THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

FILE NAME =	USER NAME = hamdanah	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES IL ROUTE 47 (S/O IL 176 - SOUTH UNION RD.)</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct:\pwr_work\pwr\dot\hamdanah\d0252916\013\011-sht-plan.dgn		DRAWN -	REVISED -			326	105X-RS-3	McHENRY	25	2	
PLOT SCALE = 50.0000' / in.		CHECKED -	REVISED -			CONTRACT NO. 60N40					
PLOT DATE = 10/27/2011		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

SUMMARY OF QUANTITIES			URBAN CONSTRUCTION TYPE CODE 0005						URBAN SUMMARY OF QUANTITIES			URBAN CONSTRUCTION TYPE CODE 0005					
CODE NO	ITEM	UNIT	100% STATE TOTAL QUANTITIES						CODE NO	ITEM	UNIT	100% STATE TOTAL QUANTITIES					
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	663	663					70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	56180	56180				
20400800	FURNISHED EXCAVATION	CU YD	780	780					70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	1021	1021				
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	1378	1378					70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	270	270				
25000210	SEEDING, CLASS 2A	ACRE	0.27	0.27					70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	270	270				
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	24	24					* 70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	188	188				
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	24	24					* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	210.10	210.10				
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	24	24					* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	49,498	49,498				
25100630	EROSION CONTROL BLANKET	SO YD	1378	1378					* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	345	345				
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	69	69					* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	270	270				
40600300	AGGREGATE (PRIME COAT)	TON	345	345					* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	611	611				
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGWAYS	TON	129	129					* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	188	188				
40600827	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	3296	3296					78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	1158	1158				
40600895	CONSTRUCTING TEST STRIP	EACH	2	2					* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	13	13				
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	241	241					78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	1020	1020				
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	7455	7455					X2020110	GRADING AND SHAPING SHOULDERS	UNIT	302	302				
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SO YD	86164	86164					Z0004562	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	300	300				
44003510	MEDIAN REMOVAL PARTIAL DEPTH	SO FT	1564	1564					Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	51.4	51.4				
44201789	CLASS D PATCHES, TYPE II, 12 INCH	SO YD	255	255					* 78008200	POLYUREA PAVEMENT MARKING TYPE 1 - LETTERS AND SYMBOLS	SQ FT	108.9	108.9				
44201794	CLASS D PATCHES, TYPE III, 12 INCH	SO YD	66	66					* 78008210	POLYUREA PAVEMENT MARKING TYPE 1 - LINE 4"	FOOT	6682	6682				
44201796	CLASS D PATCHES, TYPE IV, 12 INCH	SO YD	286	286					* 78008230	POLYUREA PAVEMENT MARKING TYPE 1 - LINE 6"	FOOT	676	676				
48101620	AGGREGATE SHOULDERS, TYPE B 10"	SO YD	195	195					* 78008250	POLYUREA PAVEMENT MARKING TYPE 1 - LINE 12"	FOOT	541	541				
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	1344	1344													
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	13	13													
63200310	GUARDRAIL REMOVAL	FOOT	650	650													
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	5	5													
67100100	MOBILIZATION	L SUM	1	1													
70100600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	L SUM	1	1													
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1													
70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	L SUM	1	1													
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1													
70300100	SHORT TERM PAVEMENT MARKING	FOOT	115857	115857													
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SO FT	319	319													

\* SPECIALTY

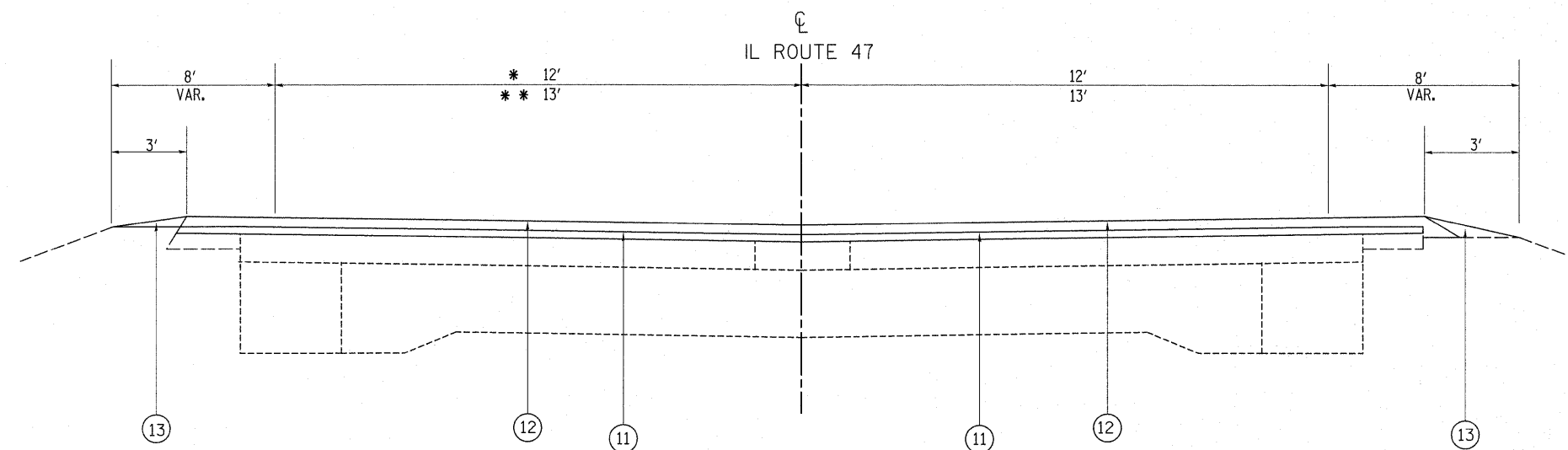


**EXIST. TYPICAL SECTION  
IL ROUTE 47**

- \*\* STA. 74+85 TO STA. 142+25
- \*\* STA. 149+13 TO STA. 186+08
- \* STA. 186+08 TO STA. 287+67.90
- \* STA. 293+75 TO STA. 332+02
- \*\*\* STA. 301+69 TO STA. 302+89
- \*\*\* STA. 324+00 TO STA. 325+20

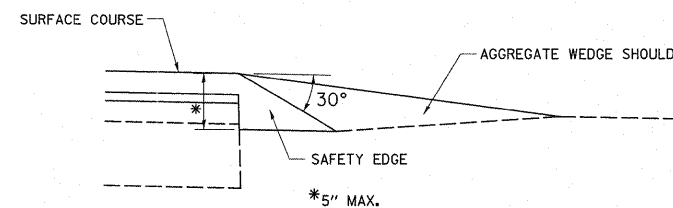
**LEGEND**

- ① EXIST. PCC PAVEMENT (9-7-9)
- ② EXIST. BASE COURSE WIDENING 9"
- ③ EXIST. REMAINING HMA AFTER MILLING, (±) 2 1/4"
- ④ EXIST. AGGREGATE SHOULDER
- ⑤ EXIST. PCC PAVEMENT(±) 9"
- ⑥ EXIST. REMAINING HMA AFTER MILLING, (±) 3"
- ⑦ EXIST. CURB AND GUTTER
- ⑧ EXIST. HMA BASE COURSE WIDENING
- ⑨ EXIST. HMA SHOULDER
- ⑩ PROP. HOT-MIX ASPHALT SURFACE REMOVAL - 2 1/4"
- ⑪ PROP. POLYMERIZED LEVELING BINDER, (MM), IL-4.75, N50, 3/4 "
- ⑫ PROP. HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
- ⑬ PROP. AGGREGATE WEDGE SHOULDER, TYPE B
- ⑭ PROP. MEDIAN REMOVAL PARTIAL DEPTH, 2 1/4"



**PROPOSED TYPICAL SECTION  
IL ROUTE 47**

- \*\* STA. 74+85 TO STA. 142+25
- \*\* STA. 149+13 TO STA. 186+08
- \* STA. 186+08 TO STA. 287+67.90
- \* STA. 293+75 TO STA. 332+02



SAFETY EDGE DETAIL

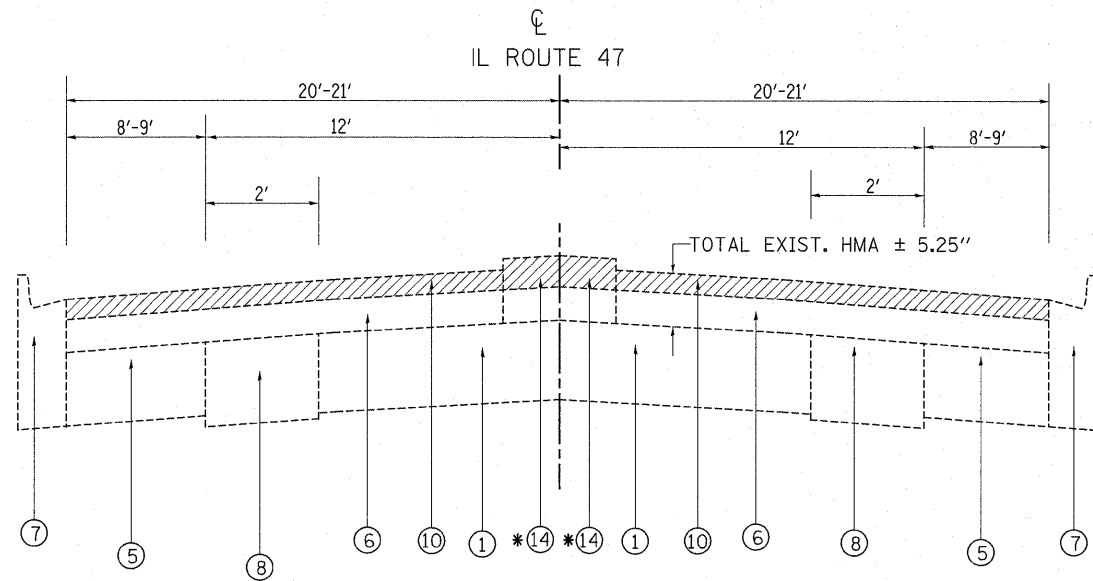
**HMA MIXTURE REQUIREMENTS**

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

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 115 LBS/SQYD/IN.

"THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76 -22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS."  
"FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS."

**NOTE:  
CONTRACTOR SHALL MILL FIRST BEFORE PATCHING**



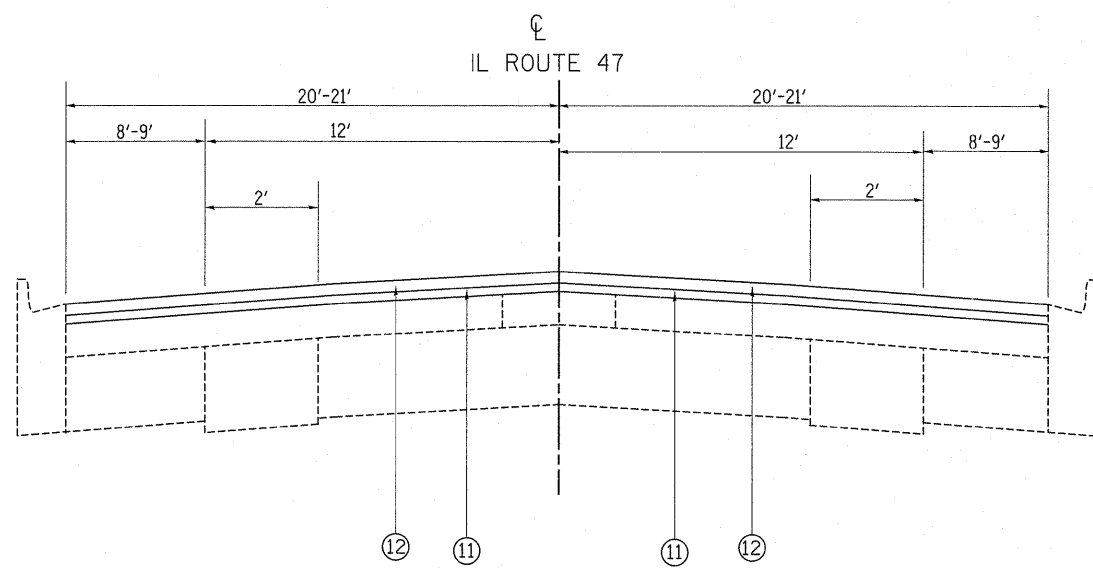
**EXIST. TYPICAL SECTION  
IL ROUTE 47**

STA. 142+25 TO STA. 149+13

\* STA. 283+85.63 TO STA. 285+36.54

**LEGEND**

- ① EXIST. PCC PAVEMENT (9-7-9)
- ② EXIST. BASE COURSE WIDENING 9''
- ③ EXIST. REMAINING HMA AFTER MILLING, (±) 2 1/4''
- ④ EXIST. AGGREGATE SHOULDER
- ⑤ EXIST. PCC PAVEMENT(±) 9''
- ⑥ EXIST. REMAINING HMA AFTER MILLING, (±) 3''
- ⑦ EXIST. CURB AND GUTTER
- ⑧ EXIST. HMA BASE COURSE WIDENING
- ⑨ EXIST. HMA SHOULDER
- ⑩ PROP. HOT-MIX ASPHALT SURFACE REMOVAL - 2 1/4''
- ⑪ PROP. POLYMERIZED LEVELING BINDER, (MM), IL-4.75, N50, 3/4 ''
- ⑫ PROP. HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2''
- ⑬ PROP. AGGREGATE WEDGE SHOULDER, TYPE B
- ⑭ PROP. MEDIAN REMOVAL PARTIAL DEPTH, 2 1/4''

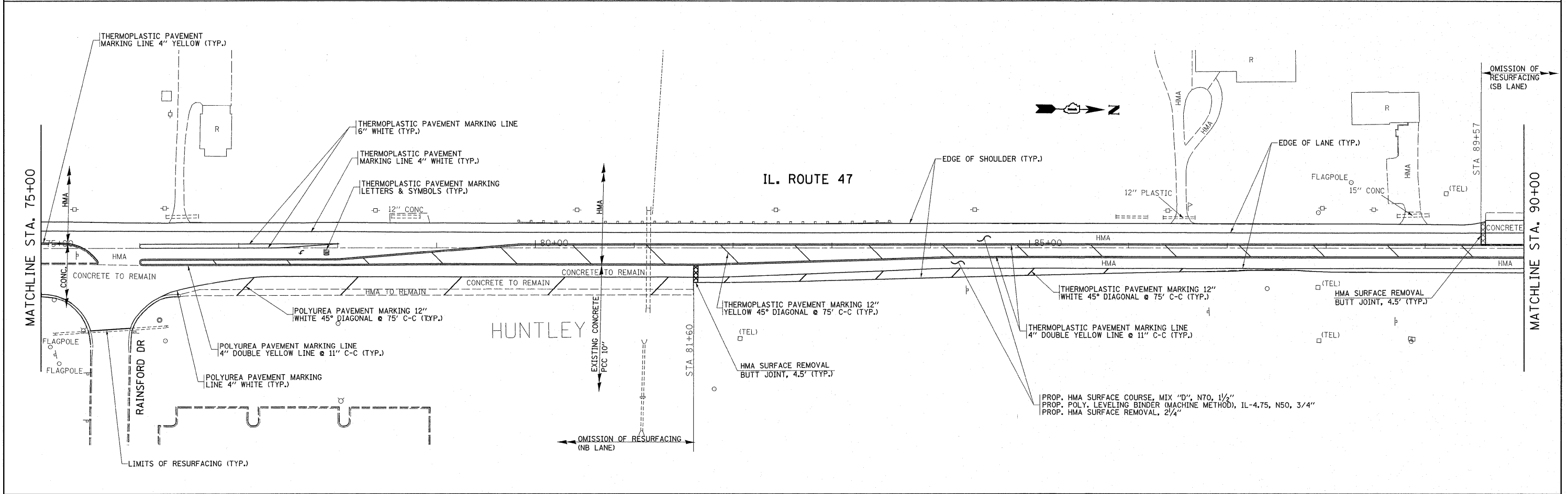
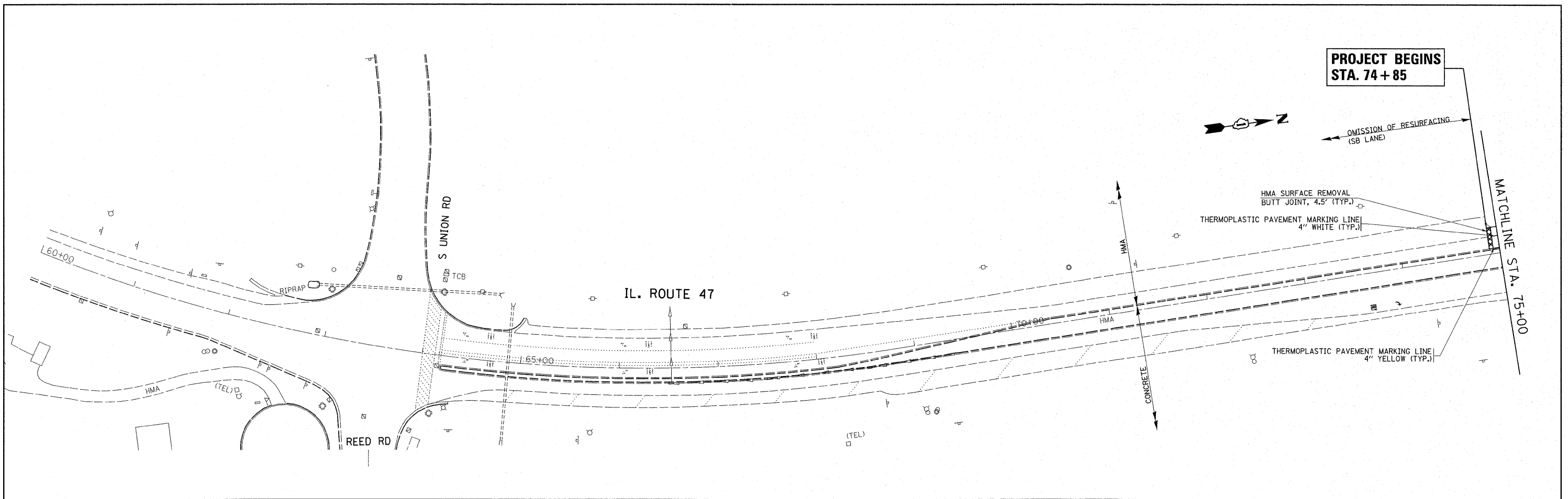


**PROPOSED TYPICAL SECTION  
IL ROUTE 47**

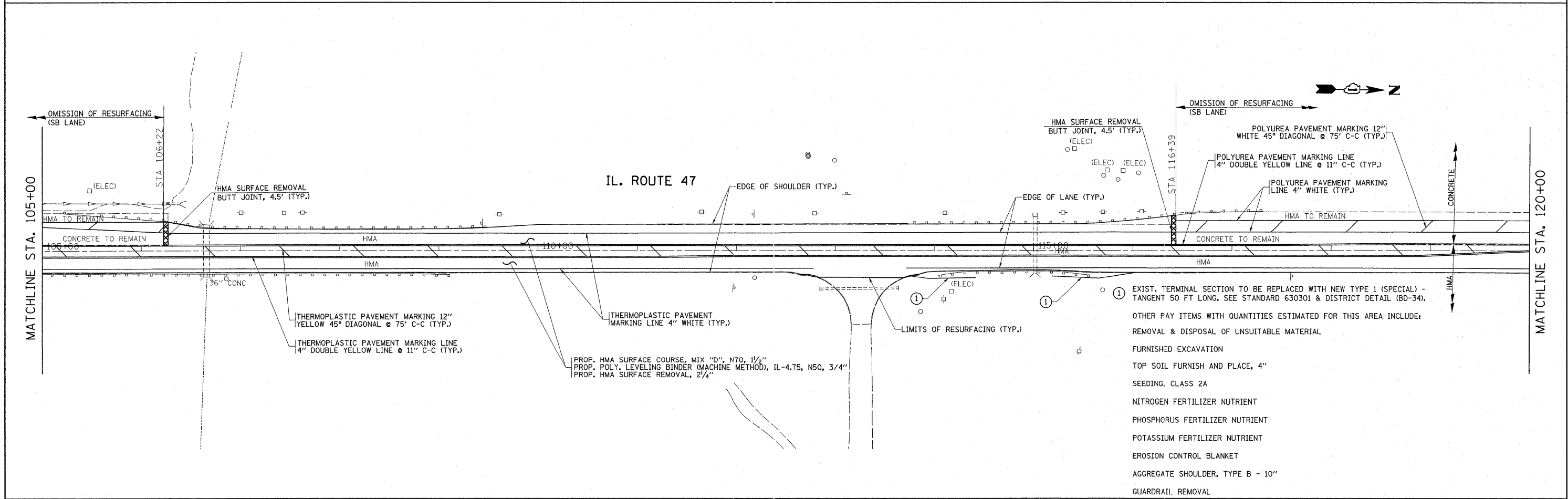
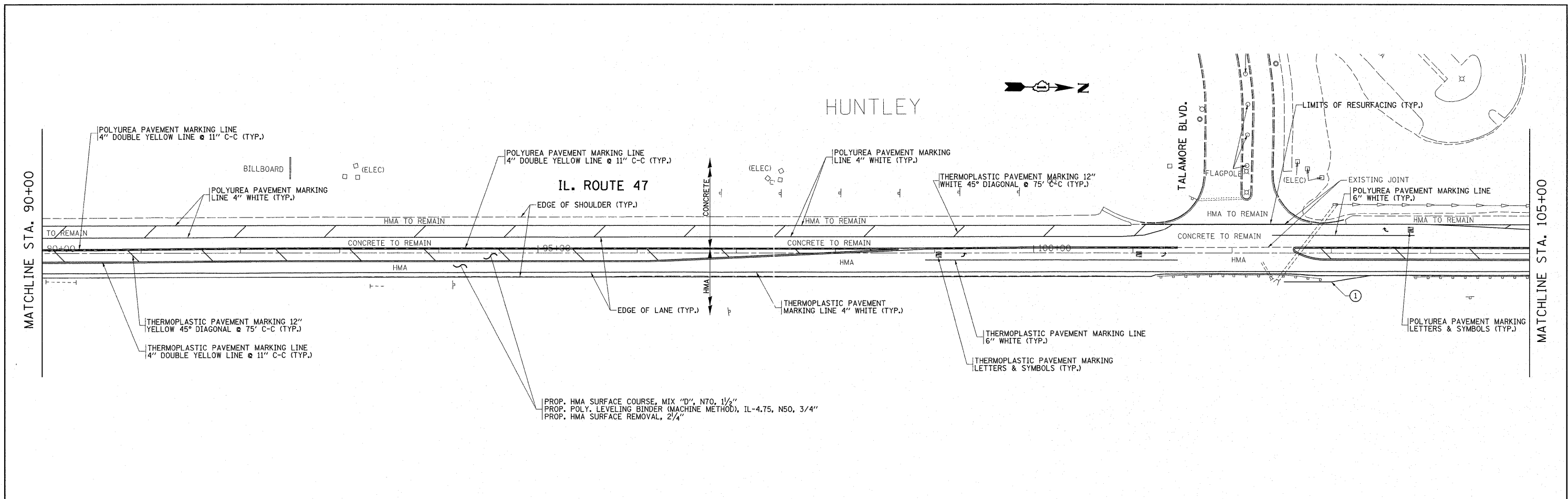
STA. 142+25 TO STA. 149+13

**NOTE:**  
CONTRACTOR SHALL MILL FIRST BEFORE PATCHING

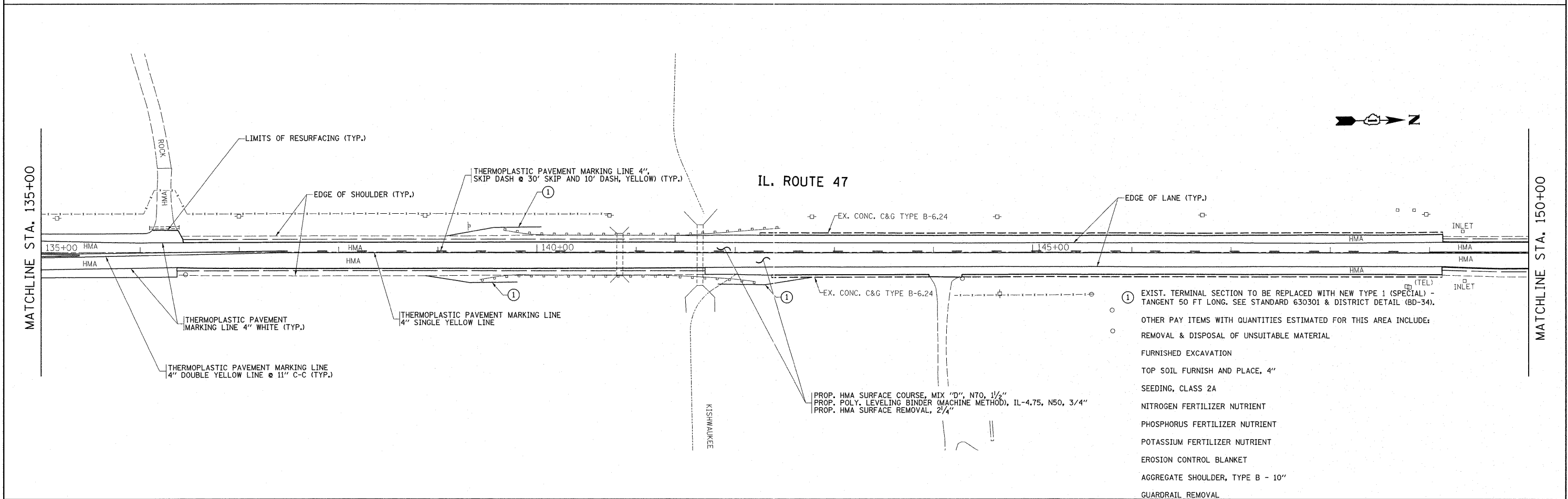
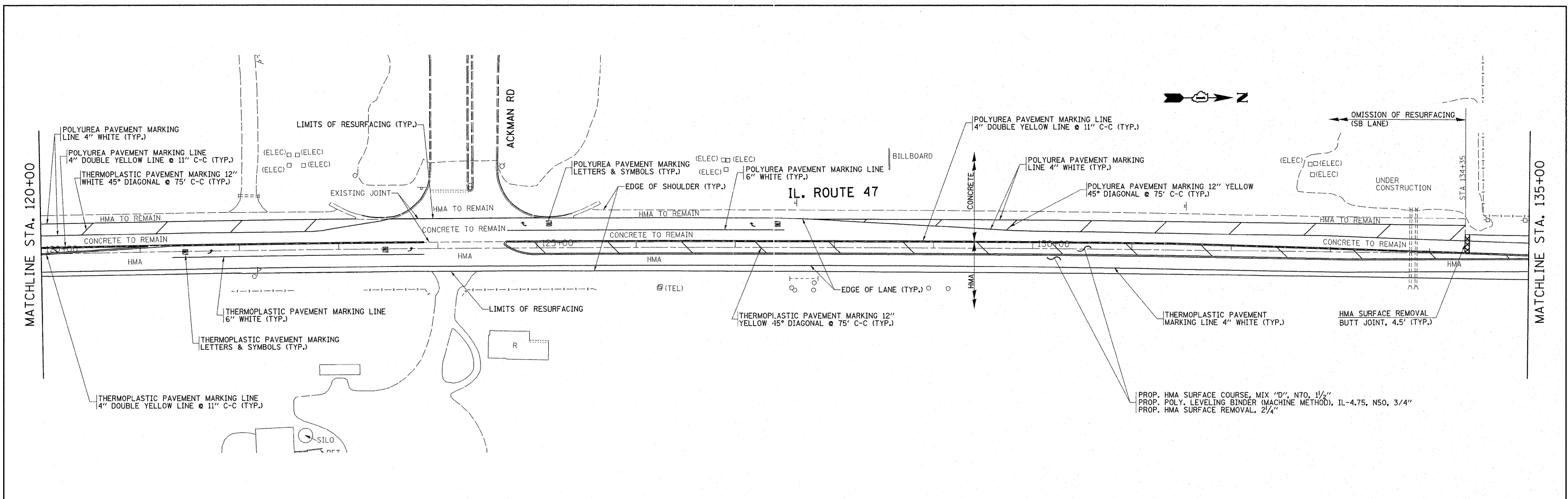
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cr\pw_work\pwi\dot\hamdanah\d0252916\013	011-sht-plandgn	DRAWN -	REVISED -		326	105X-RS-3	McHENRY	25	5			
	PLOT SCALE = 50.0000' / 1"	CHECKED -	REVISED -					CONTRACT NO. 60N40				
	PLOT DATE = 10/27/2011	DATE -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	



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PLOT SCALE = 50.0000' / 1" =	CHECKED -	REVISED -	SCALE:			SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO. 60N40			
PLOT DATE = 12/8/2011	DATE -	REVISED -	ILLINOIS FED. AID PROJECT										



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PLOT SCALE = 50.0000' / 1in.		CHECKED -	REVISED -			CONTRACT NO. 60N40					
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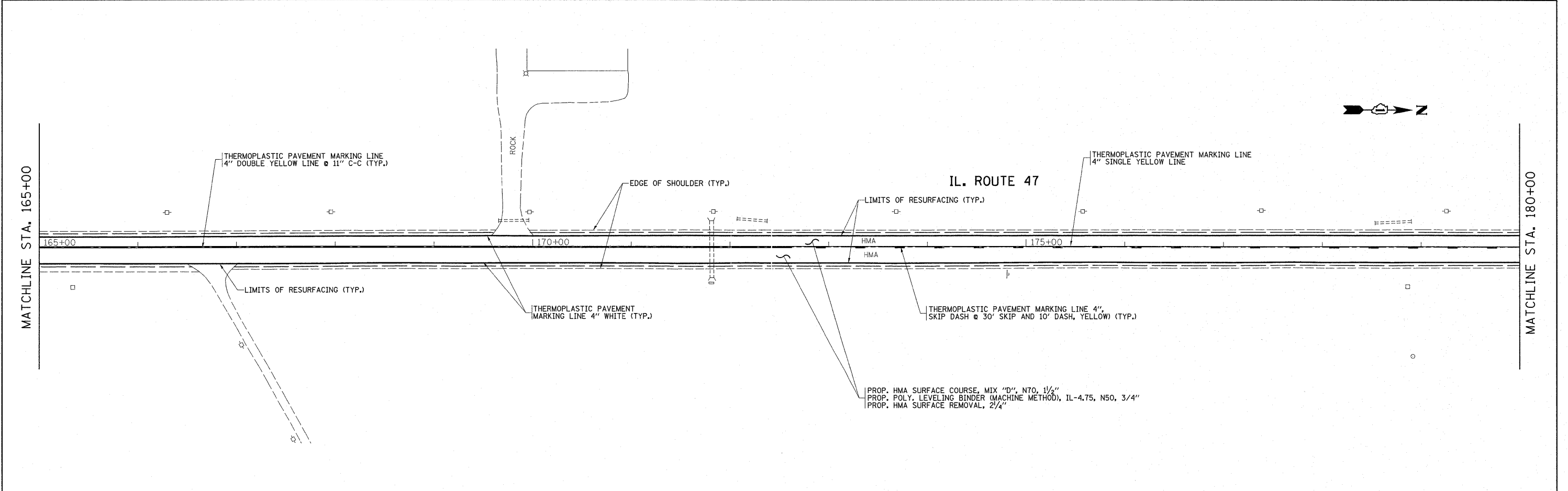
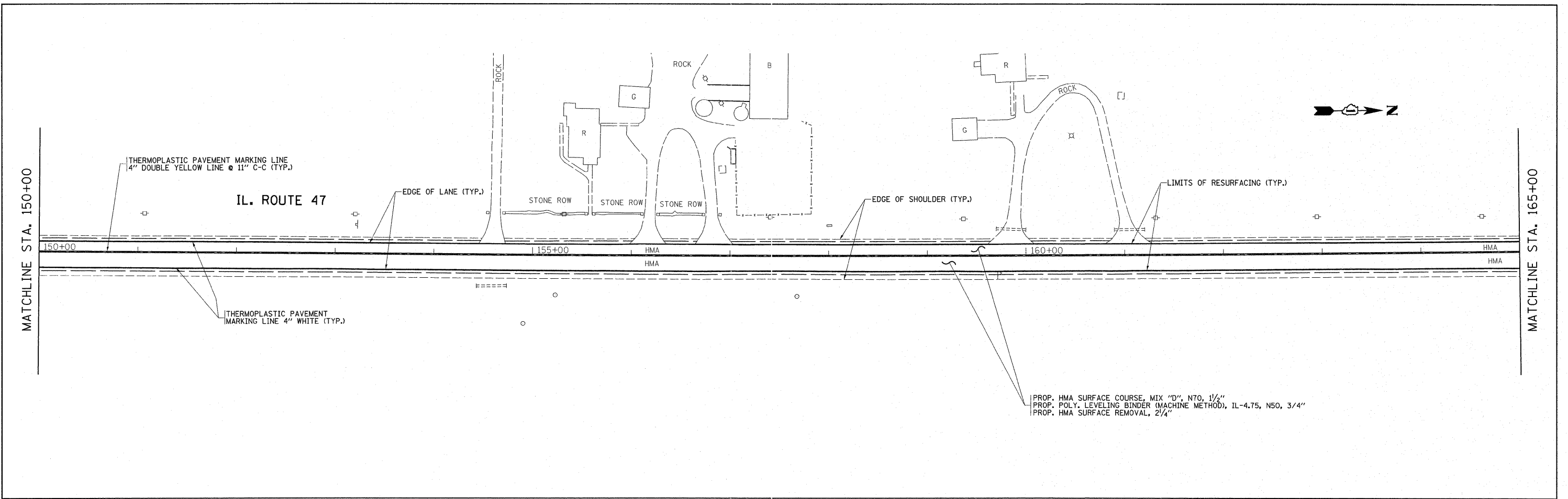
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROP. ROADWAY & PAVEMENT MARKING PLAN  
IL. ROUTE 47 (S/O IL. 176 - SOUTH UNION RD.)**

F.A.P. RTE. 326	SECTION 105X-RS-3	COUNTY McHENRY	TOTAL SHEETS 25	SHEET NO. 8
CONTRACT NO. 60N40				
ILLINOIS FED. AID PROJECT				

- ① EXIST. TERMINAL SECTION TO BE REPLACED WITH NEW TYPE 1 (SPECIAL) - TANGENT 50 FT LONG. SEE STANDARD 630301 & DISTRICT DETAIL (BD-34).
- OTHER PAY ITEMS WITH QUANTITIES ESTIMATED FOR THIS AREA INCLUDE:
- REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL
- FURNISHED EXCAVATION
- TOP SOIL FURNISH AND PLACE, 4"
- SEEDING, CLASS 2A
- NITROGEN FERTILIZER NUTRIENT
- PHOSPHORUS FERTILIZER NUTRIENT
- POTASSIUM FERTILIZER NUTRIENT
- EROSION CONTROL BLANKET
- AGGREGATE SHOULDER, TYPE B - 10"
- GUARDRAIL REMOVAL





FILE NAME = c:\pwork\pwork\hamdanah\d0252916\013011-sht-plan.dgn	USER NAME = hamdanah	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>PROP. ROADWAY &amp; PAVEMENT MARKING PLAN</b> <b>IL. ROUTE 47 (s/o IL. 176 - SOUTH UNION RD.)</b>			F.A.P. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 10/27/2011	DATE -	REVISED -					CONTRACT NO. 60N40				
	ILLINOIS FED. AID PROJECT											

① EXIST. TERMINAL SECTION TO BE REPLACED WITH NEW TYPE 1 (SPECIAL) - TANGENT 50 FT LONG. SEE STANDARD 630301 & DISTRICT DETAIL (BD-34).

OTHER PAY ITEMS WITH QUANTITIES ESTIMATED FOR THIS AREA INCLUDE:

REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL

FURNISHED EXCAVATION

TOP SOIL FURNISH AND PLACE, 4"

SEEDING, CLASS 2A

NITROGEN FERTILIZER NUTRIENT

PHOSPHORUS FERTILIZER NUTRIENT

POTASSIUM FERTILIZER NUTRIENT

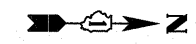
EROSION CONTROL BLANKET

AGGREGATE SHOULDER, TYPE B - 10"

GUARDRAIL REMOVAL

MATCHLINE STA. 180+00

MATCHLINE STA. 195+00



IL. ROUTE 47

THERMOPLASTIC PAVEMENT MARKING LINE  
4" SINGLE YELLOW LINE

LIMITS OF RESURFACING (TYP.)

EDGE OF SHOULDER (TYP.)

EDGE OF LANE (TYP.)

180+00

185+00

190+00

HMA  
HMA

HMA SURFACE REMOVAL  
BUTT JOINT, 4.5' (TYP.)

CONLEY RD

THERMOPLASTIC PAVEMENT MARKING LINE 4",  
SKIP DASH @ 30' SKIP AND 10' DASH, YELLOW (TYP.)

THERMOPLASTIC PAVEMENT  
MARKING LINE 4" WHITE (TYP.)

PROP. HMA SURFACE COURSE, MIX "D", N70, 1 1/2"  
PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"  
PROP. HMA SURFACE REMOVAL, 2 1/4"

MATCHLINE STA. 195+00

MATCHLINE STA. 210+00



IL. ROUTE 47

EDGE OF SHOULDER (TYP.)

EDGE OF LANE (TYP.)

LIMITS OF RESURFACING (TYP.)

195+00

200+00

205+00

HMA  
HMA

THERMOPLASTIC PAVEMENT MARKING LINE 4",  
SKIP DASH @ 30' SKIP AND 10' DASH, YELLOW (TYP.)

THERMOPLASTIC PAVEMENT  
MARKING LINE 4" WHITE (TYP.)

PROP. HMA SURFACE COURSE, MIX "D", N70, 1 1/2"  
PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"  
PROP. HMA SURFACE REMOVAL, 2 1/4"

FILE NAME =

USER NAME = hamdenah

DESIGNED -

REVISED -

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011-sht-pln.dgn

DRAWN -

REVISED -

PLOT SCALE = 50.0000' / 1"

CHECKED -

REVISED -

PLOT DATE = 10/27/2011

DATE -

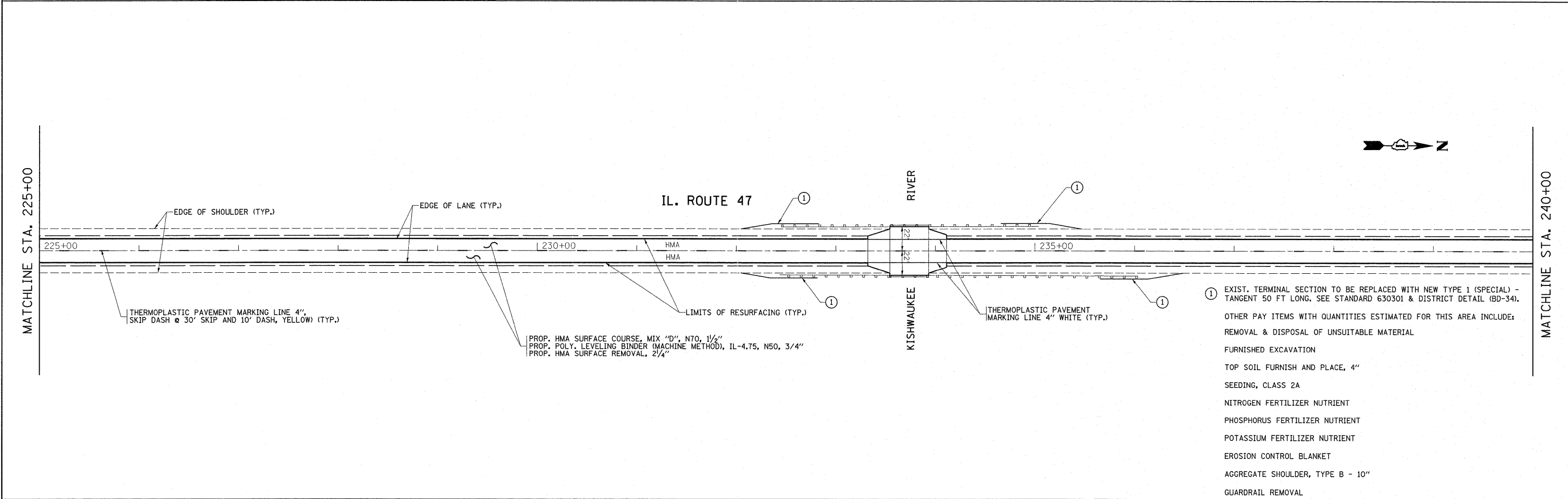
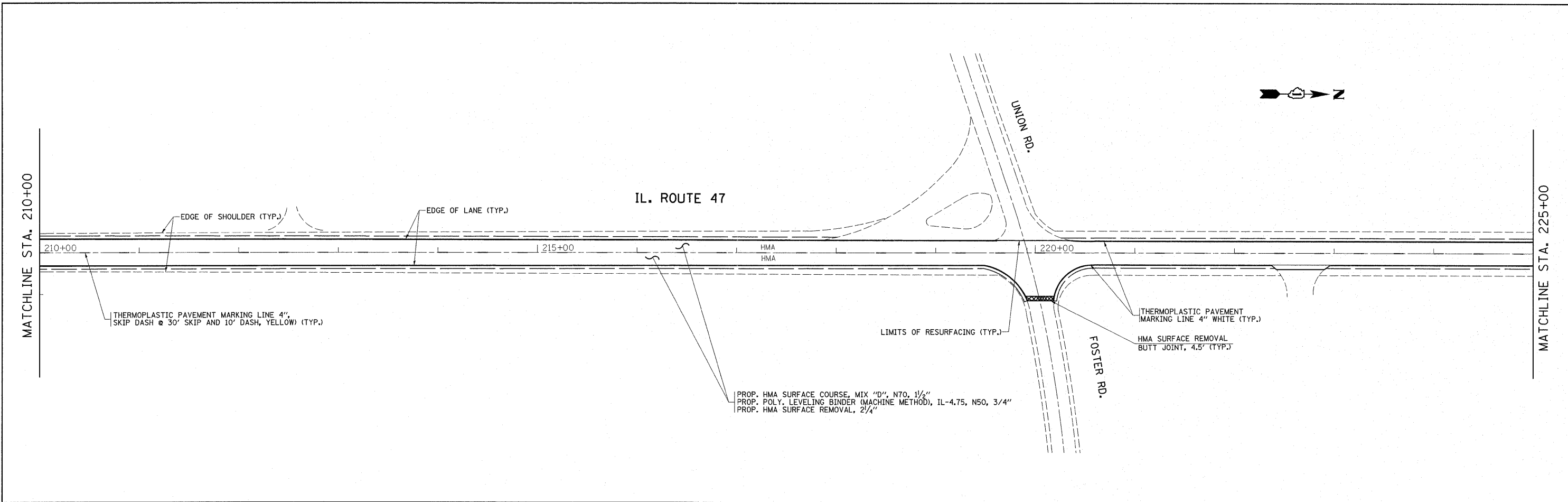
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

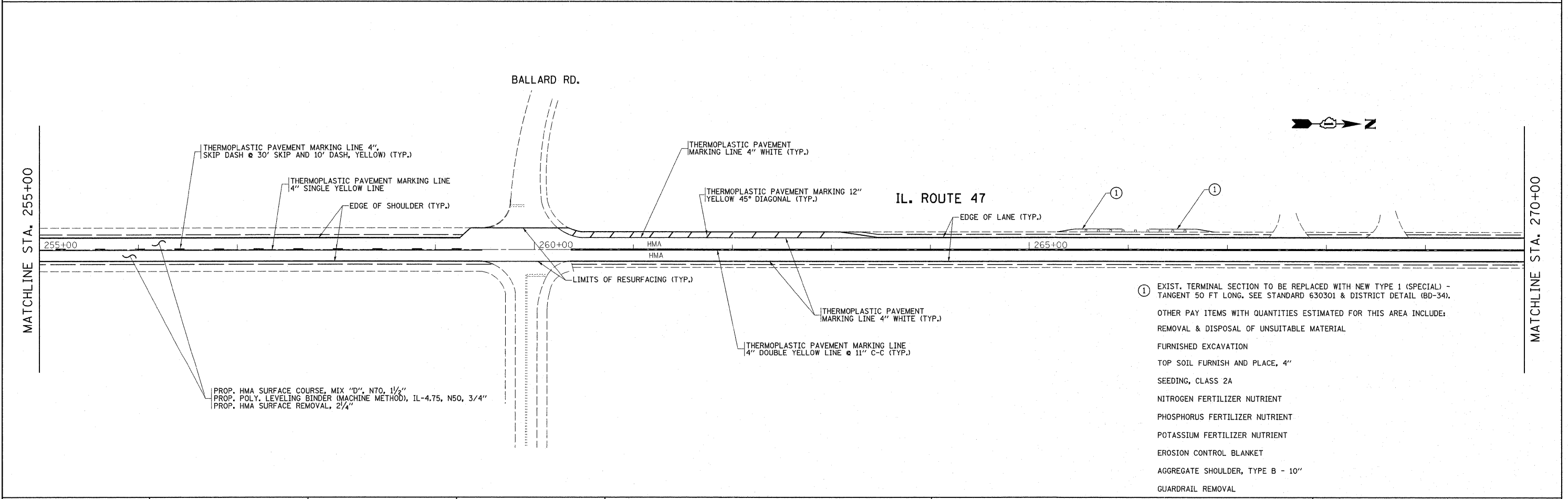
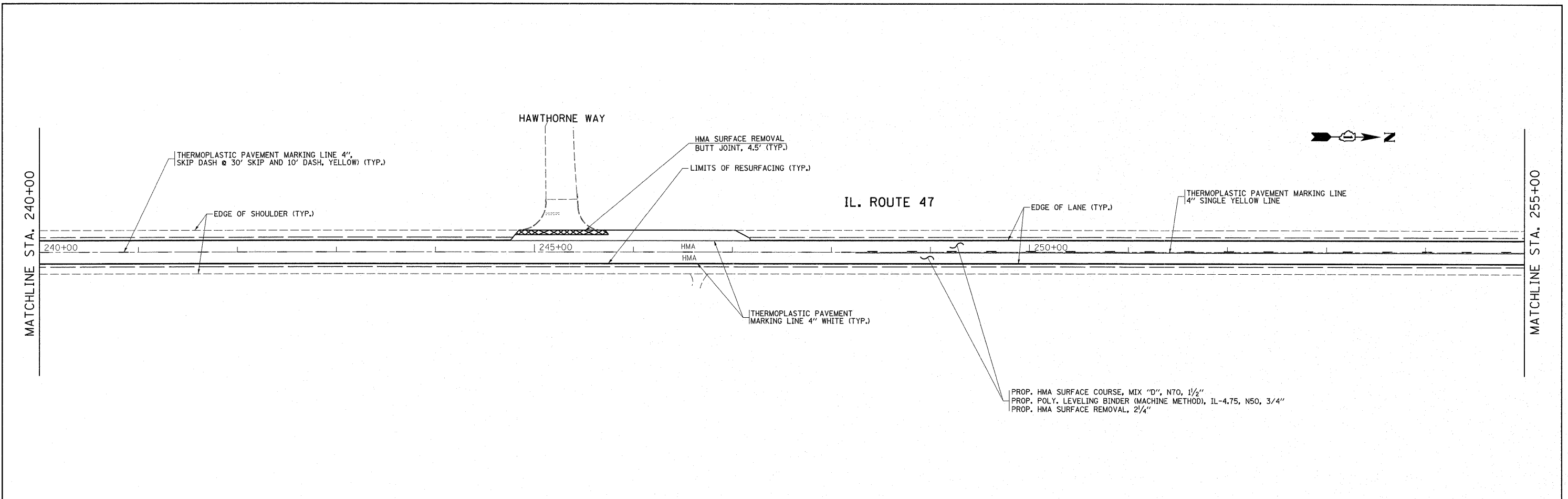
PROP. ROADWAY & PAVEMENT MARKING PLAN  
IL. ROUTE 47 (s/b IL. 176 - SOUTH UNION RD.)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105X-RS-3	McHENRY	25	10
CONTRACT NO. 60N40			ILLINOIS FED. AID PROJECT	

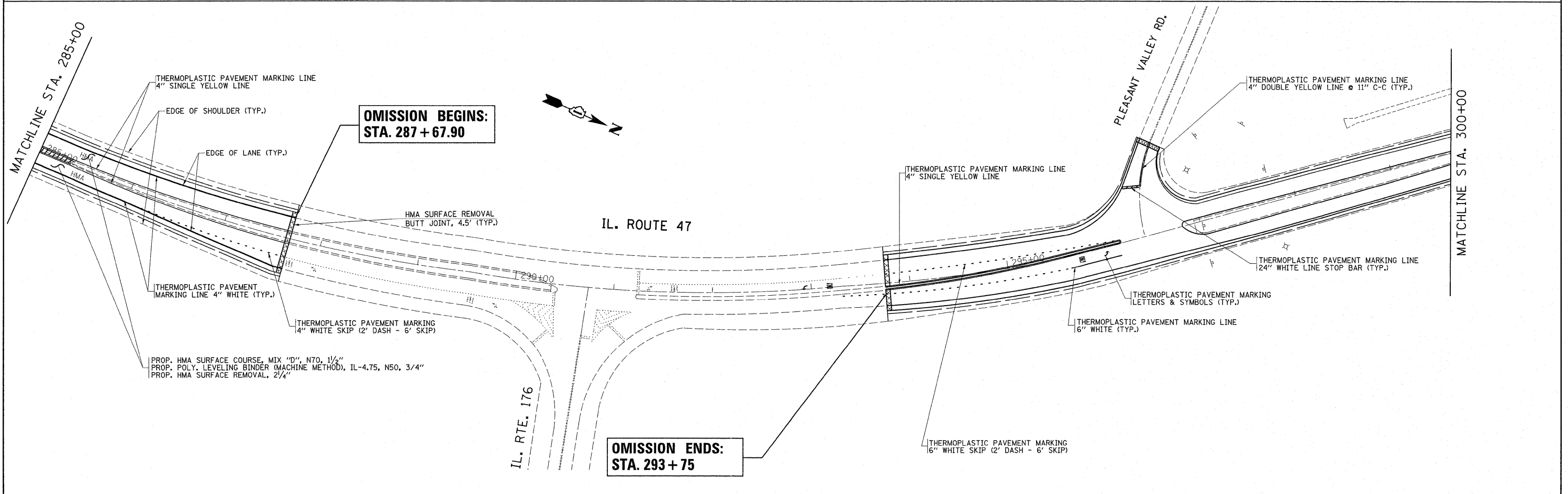
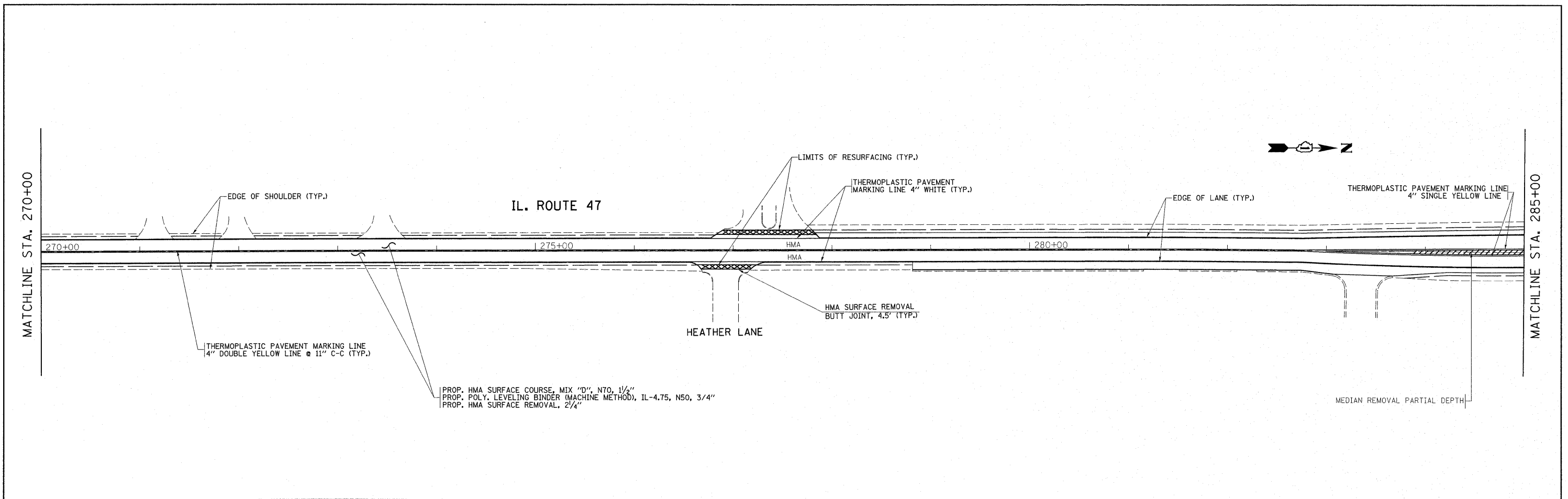
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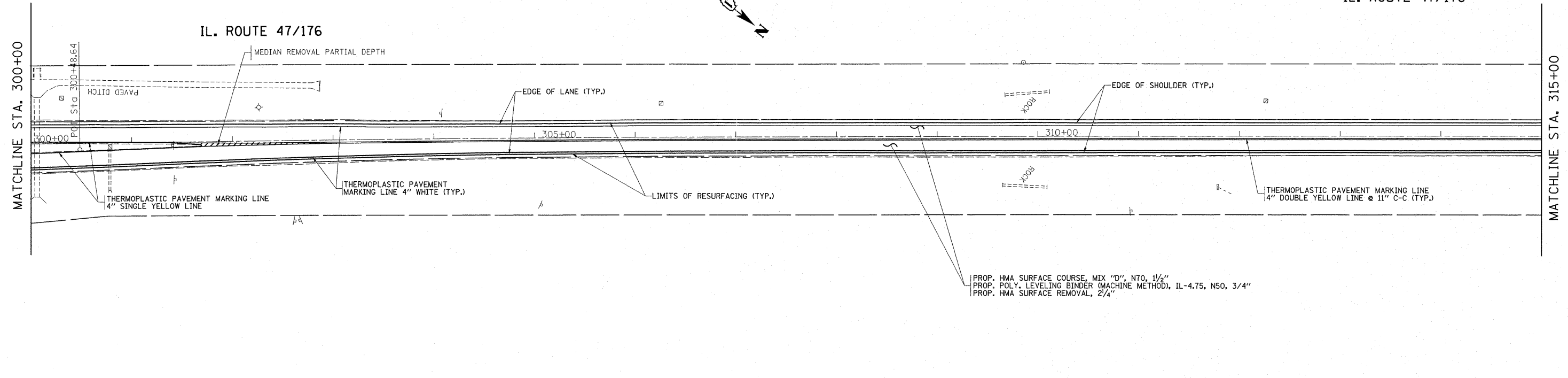
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PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED -	REVISED -			CONTRACT NO. 60N40					
PLOT DATE = 10/27/2011	DATE -	REVISED -	REVISED -			ILLINOIS FED. AID PROJECT					



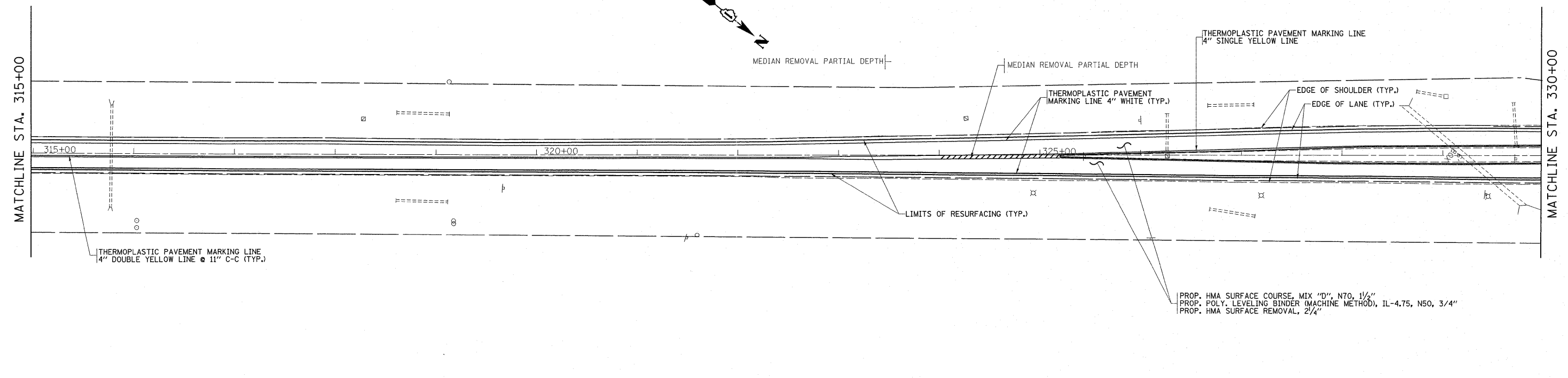
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	PLOT DATE = 10/27/2011	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					



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		DATE -	REVISED -			ILLINOIS FED. AID PROJECT				

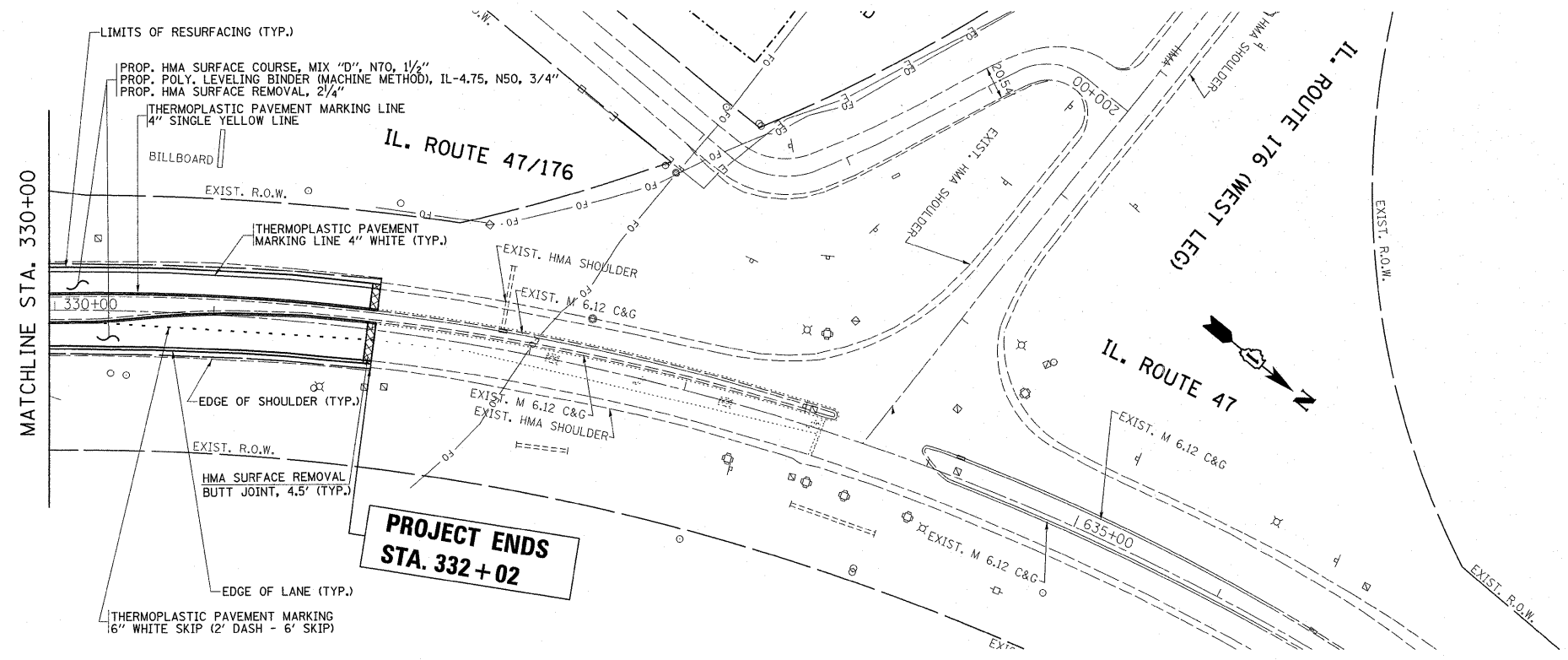


PROP. HMA SURFACE COURSE, MIX "D", N70, 1 1/2"  
 PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"  
 PROP. HMA SURFACE REMOVAL, 2/4"



PROP. HMA SURFACE COURSE, MIX "D", N70, 1 1/2"  
 PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"  
 PROP. HMA SURFACE REMOVAL, 2/4"

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	PLOT DATE = 10/27/2011	DATE -	REVISED -			ILLINOIS FED. AID PROJECT				



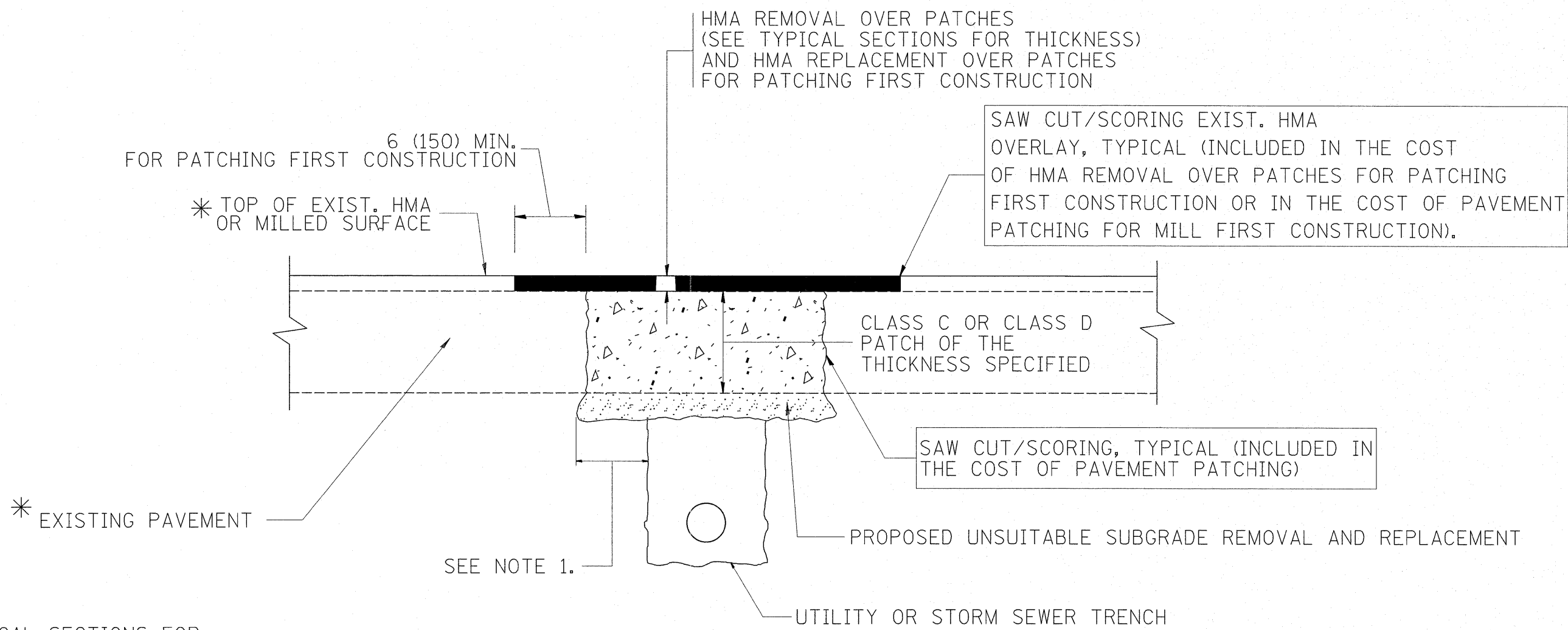
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	PLOT DATE = 10/27/2011	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROP. ROADWAY & PAVEMENT MARKING PLAN  
IL. ROUTE 47 (S/O IL. 176 - SOUTH UNION RD.)**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105X-RS-3	McHENRY	25	15
CONTRACT NO. 60N40				
ILLINOIS FED. AID PROJECT				

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



\* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

**NOTES:**

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

**SEQUENCE OF CONSTRUCTION (PATCHING FIRST)**

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

**SEQUENCE OF CONSTRUCTION (MILLING FIRST)**

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

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

FILE NAME =	USER NAME = hamdenah	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pw_work\pwidot\hamdenah\0252916\013	011-sht-plandgn	DRAWN -	REVISED - R. BORO 01-01-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	326	105X-RS-3	McHENRY	25	16
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	PLOT DATE = 10/27/2011	DATE - 10-25-94	REVISED - K. ENG 10-27-08		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT								



VARIABLE - TO MEET EXISTING DIMENSIONS AND FIELD CONDITIONS (SEE NOTE ②)

PROP. CONC. CURB OR CURB AND GUTTER REPLACEMENT IN ACCORDANCE WITH STATE STANDARD 606001. (SEE NOTE ②)

SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL PAY ITEM.

SEE STATE STANDARD 606001  
EXISTING OR PROPOSED HMA SURFACE (IF APPLICABLE)

18" (450) MAX.

1/4" (5) \*\*

EXISTING SIDEWALK, DRIVEWAY, MEDIAN SURFACE, SOD OR GROUND.

PROPOSED SIDEWALK, DRIVEWAY PAVEMENT, MEDIAN SURFACE OR SODDING SALT TOLERANT WITH TOP SOIL, 4" (100) SOD RESTORATION (SEE NOTE ①).

EXISTING CONCRETE PAVEMENT, CONCRETE BASE COURSE OR FLEXIBLE PAVEMENT

T/2 \*

SUITABLE BACKFILL MATERIAL (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT)

3" (75) MIN.

PROPOSED 3/4" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.)

\* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.

\*\* IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

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

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

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

NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.

SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY,

② FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED

③ CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.

④ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.

⑤ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑥ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑦ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.

⑧ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

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

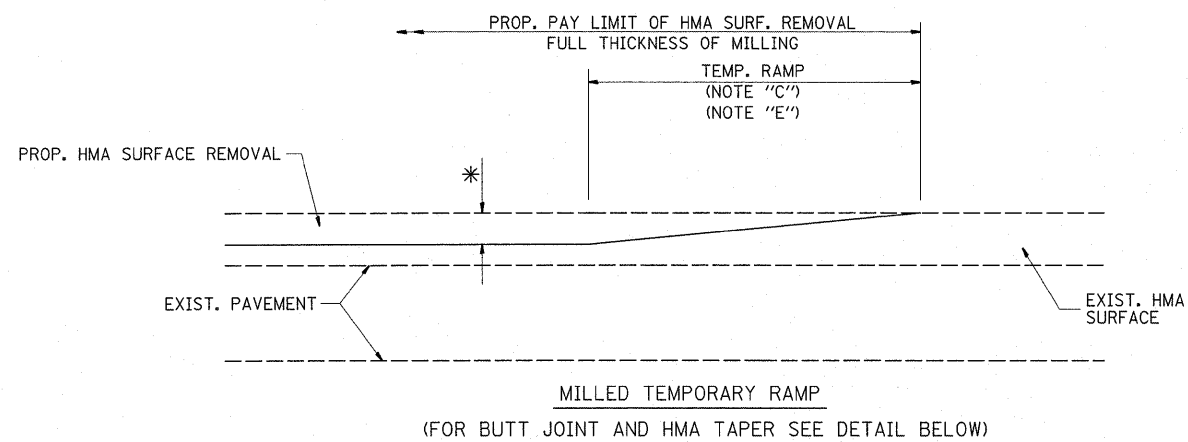
**BASIS OF PAYMENT:**

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

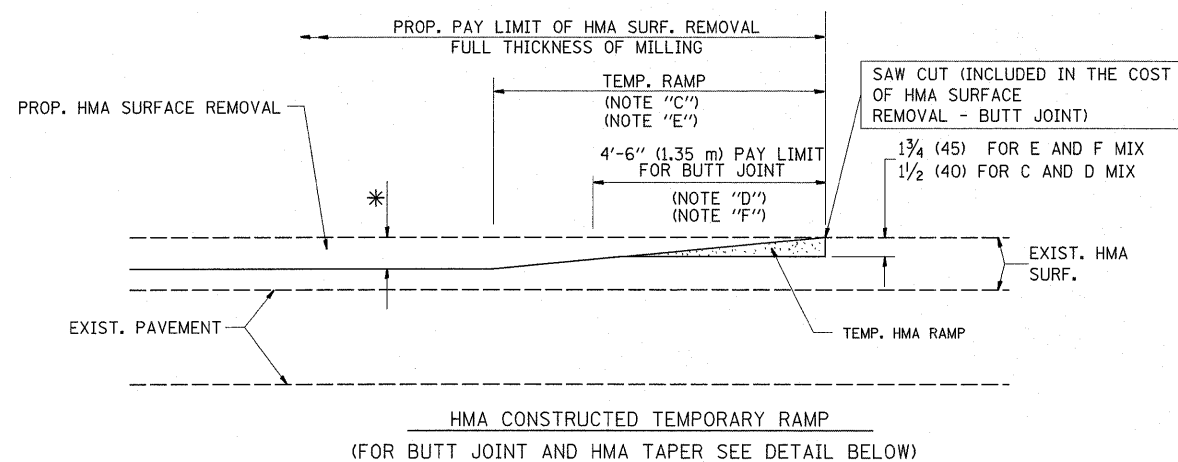
# CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

FILE NAME =	USER NAME = hamdenah	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = 50.0000' / 1"		CHECKED -	REVISED - M. GOMEZ 01-22-01		<b>BD600-06 (BD-24)</b>			<b>CONTRACT NO. 60N40</b>				
PLOT DATE = 10/27/2011		DATE - 03-11-94	REVISED - R. BORO 12-15-09		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT				

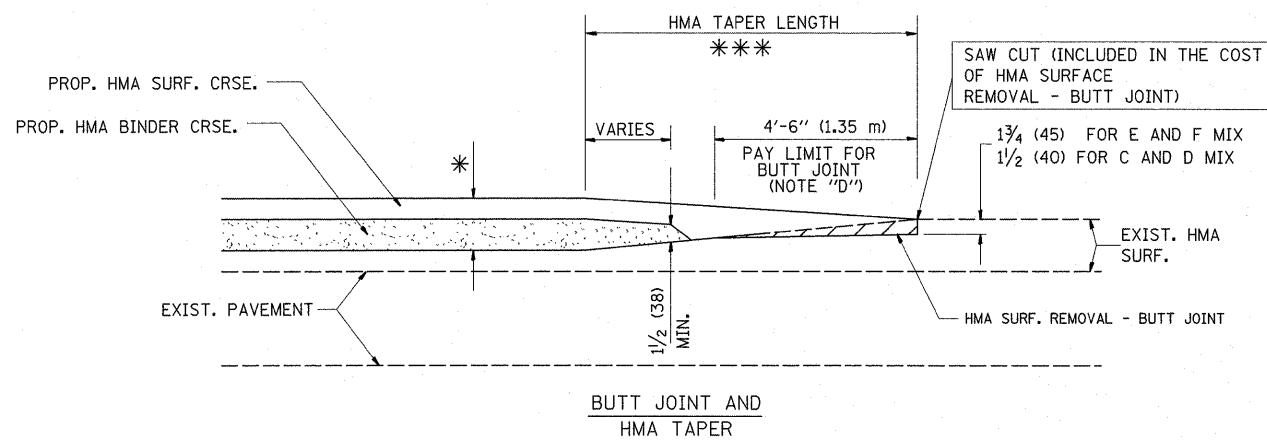


OPTION 1

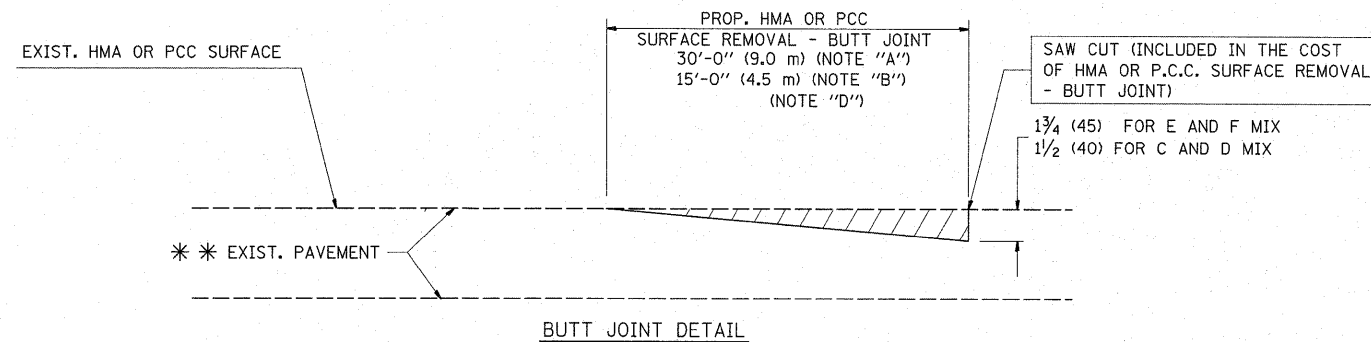


OPTION 2

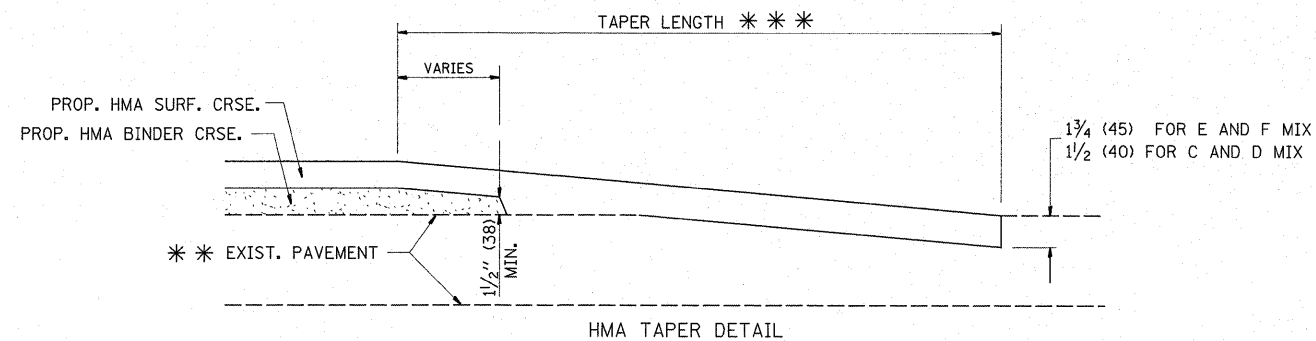
TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



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.

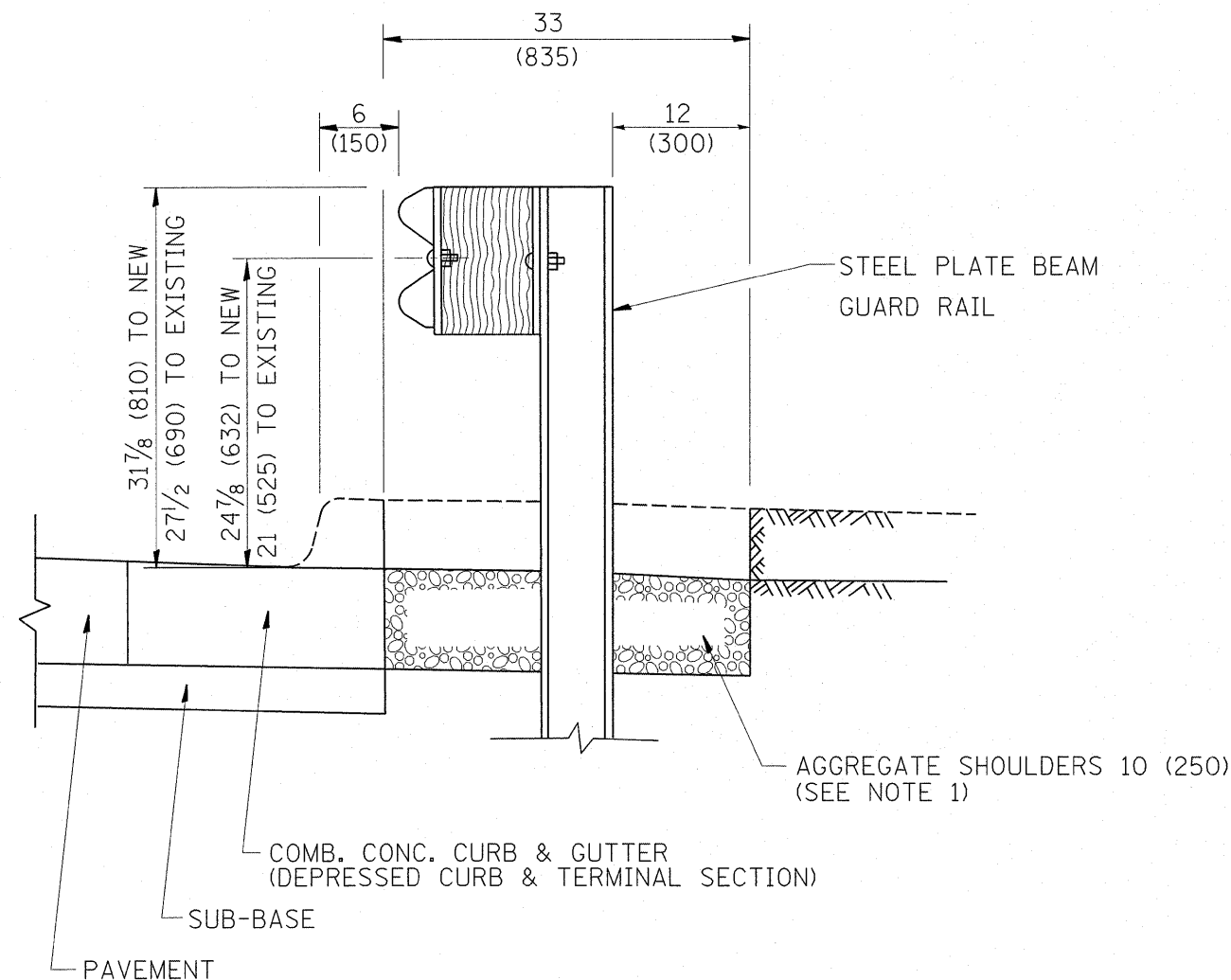
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	PLOT DATE = 10/27/2011	DATE - 06-13-90	REVISED - R. BORO 01-01-07

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND  
HMA TAPER DETAILS

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

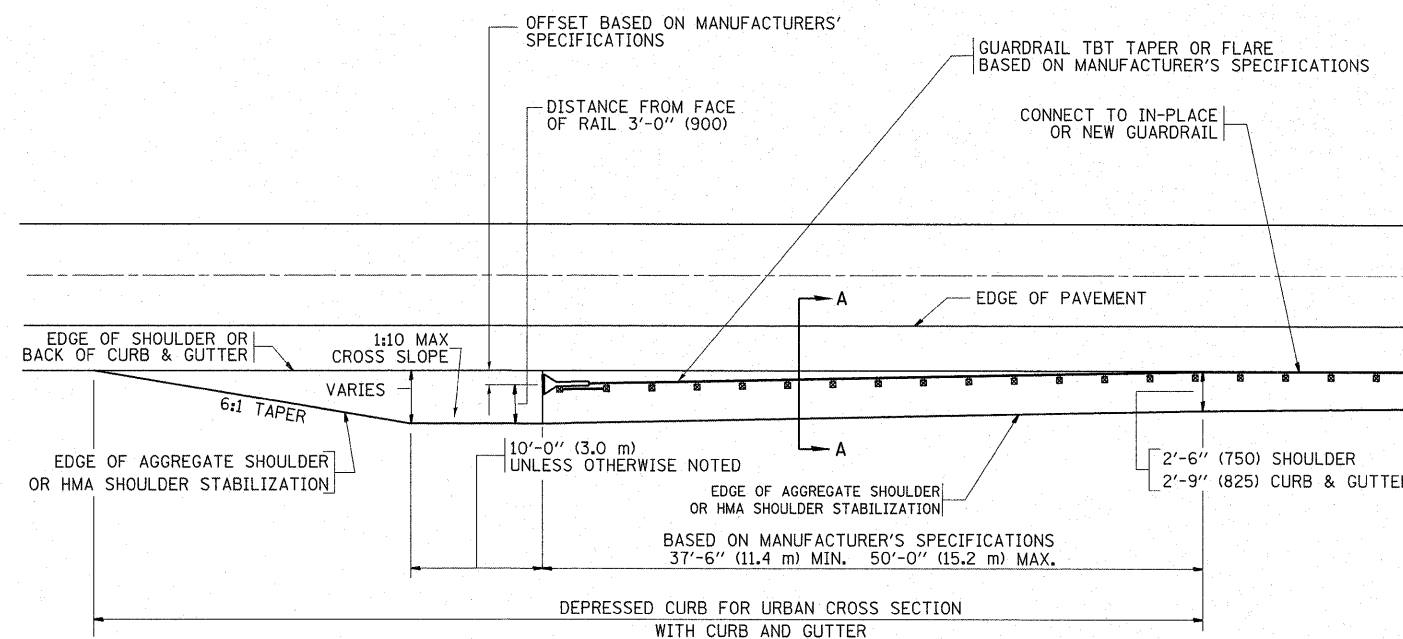
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105X-RS-3	McHENRY	25	18
BD400-05 BD32			CONTRACT NO. 60N40	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



SECTION A-A

- NOTES:
1. THE AGGREGATE SHOULDER, 10" OR HMA SHOULDER, 6" (IF REQUIRED) SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL.
  2. "EXISTING" GUARDRAIL REFERS TO CONNECTING TERMINAL SECTION TO GUARD RAILING PRIOR TO THE MIDWEST GUARDRAIL SYSTEM.
  3. THE CONTRACTOR SHALL VERIFY THE TYPE/HEIGHT OF GUARDRAIL IN-PLACE BEFORE ORDERING THE NEW TERMINAL SECTION. COST INCLUDED WITH THE COST OF THE TERMINAL. THE TERMINAL SECTION HEIGHT TO BE PLACED MUST MATCH THE HEIGHT OF THE IN-PLACE GUARDRAIL.

**DETAILS FOR STEEL PLATE BEAM  
GUARD RAIL ADJACENT TO CURB AND GUTTER  
[FOR ROADWAY SPEED 35 MPH (60 kmh) TO 45 MPH (70 kmh)]**



**DEPRESSED CURB AND GUTTER AND  
SHOULDER TREATMENT AT TBT TY. 1 SPL.**

BASIS OF PAYMENT: HMA SHOULDERS 6 (150) (IF REQUIRED) WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SHOULDERS 6" (150 mm)".

STEEL PLATE BEAM GUARD RAIL AND TRAFFIC BARRIER TERMINAL, OF THE TYPE SPECIFIED WILL BE PAID FOR SEPARATELY.

TBT = TRAFFIC BARRIER TERMINAL  
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

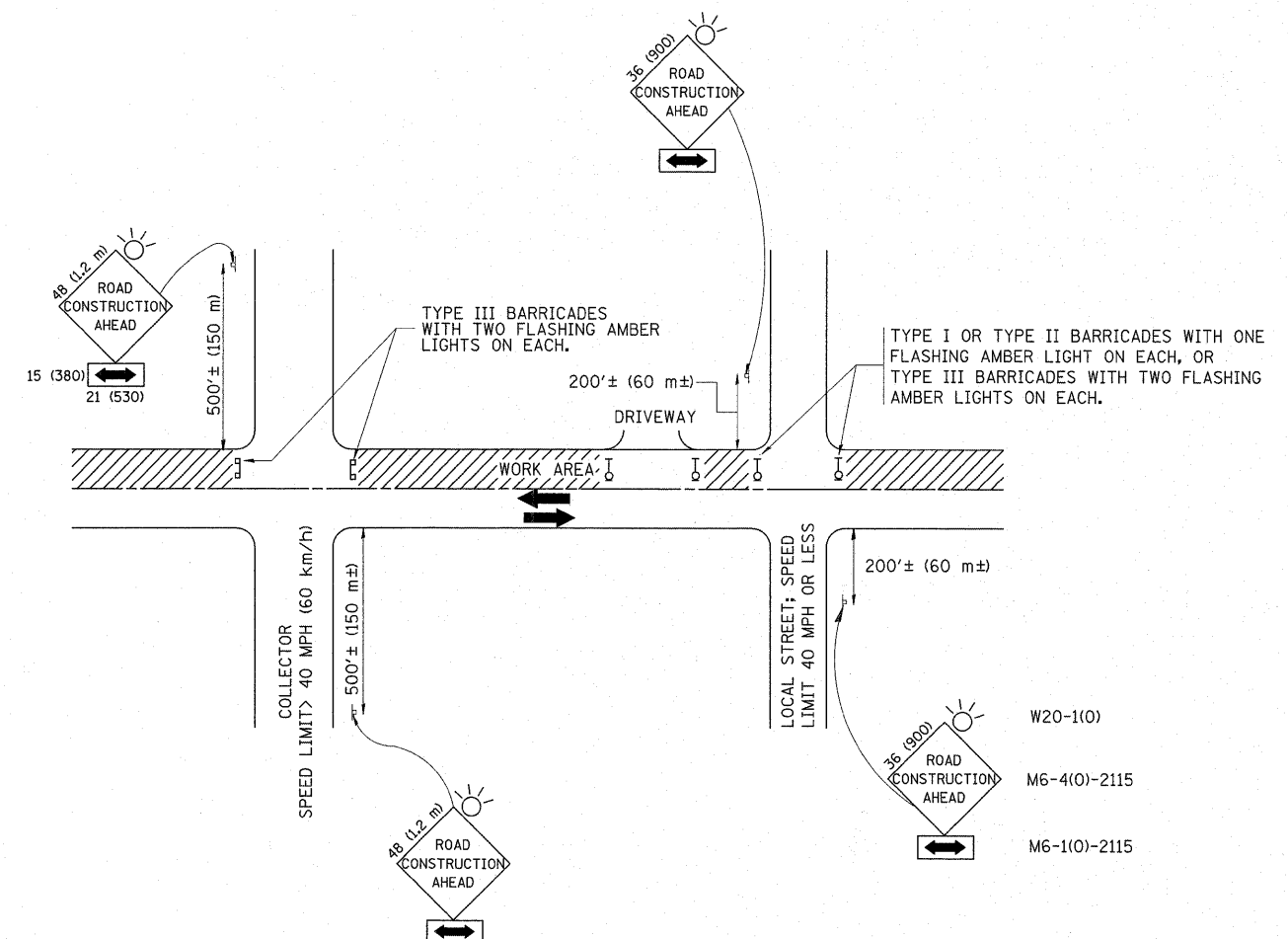
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	PLOT DATE = 10/27/2011	DATE - 09-22-90	REVISED - R. BORO 09-14-2009

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETAILS FOR DEPRESSED CURB & GUTTER AND  
SHOULDER TREATMENT AT TBT TY 1 SPL.**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105X-RS-3	McHENRY	25	19
BD600-10 (BD 34)			CONTRACT NO. 60N40	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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



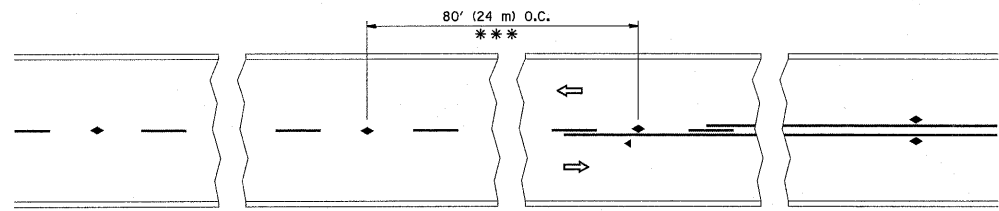
TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- 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:
    - 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.
    - 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.
  - SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
    - 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.
    - 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.
  - 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.

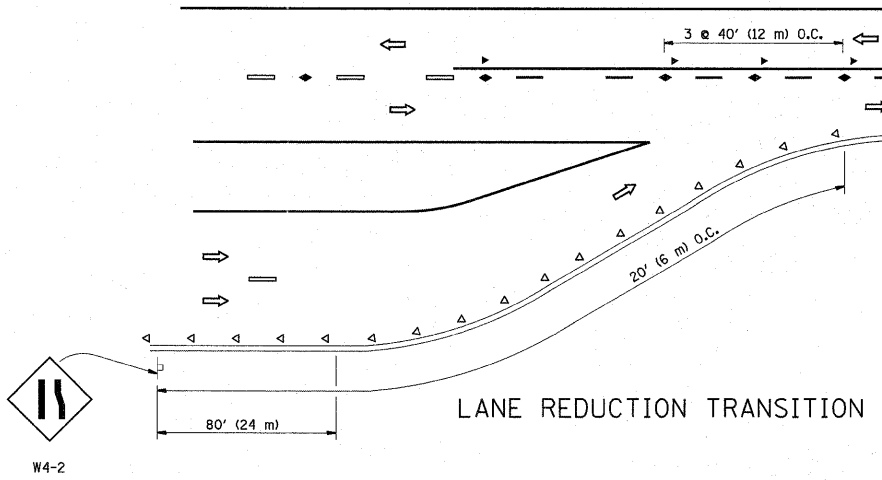
All dimensions are in millimeters (Inches) unless otherwise shown.

FILE NAME =	USER NAME = hamdaneh	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pw_work\pw\dot\hamdaneh\d0252916\013	011-sh-t-plan.dgn	DRAWN -	REVISED - A. HOUSEH 03-06-96			326	105X-RS-3	McHENRY	25	20	
	PLOT SCALE = 50.0000 // in.	CHECKED -	REVISED - A. HOUSEH 10-15-96			<b>TC-10</b>		CONTRACT NO. 60N40			
	PLOT DATE = 10/27/2011	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00			SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		

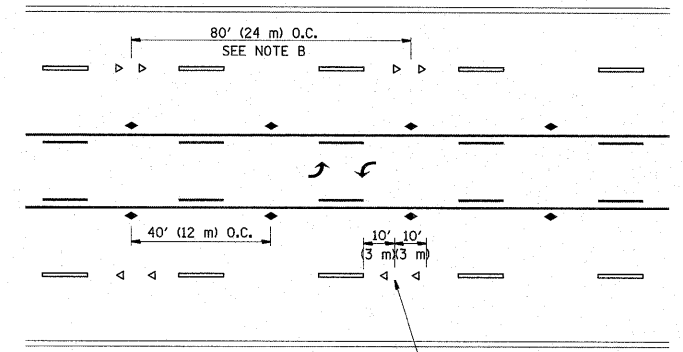


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

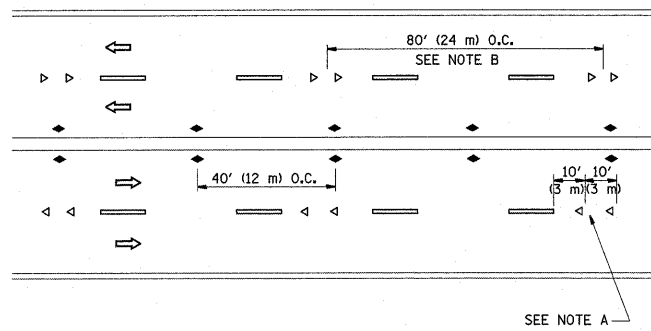
TWO-LANE/TWO-WAY



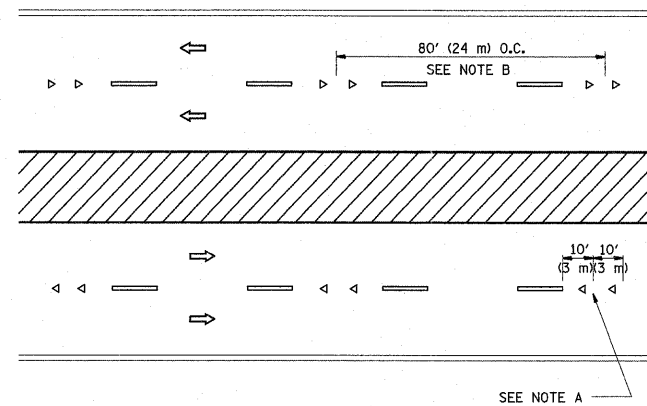
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

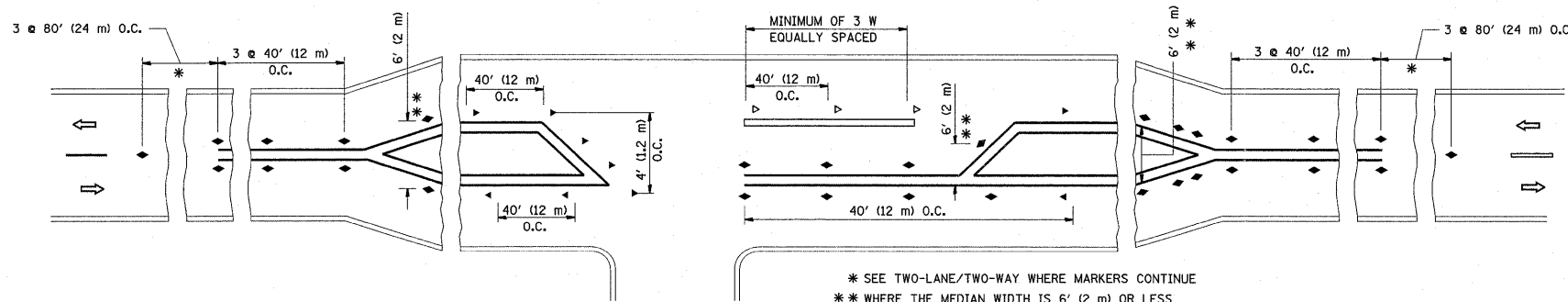
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

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

DESIGN NOTES

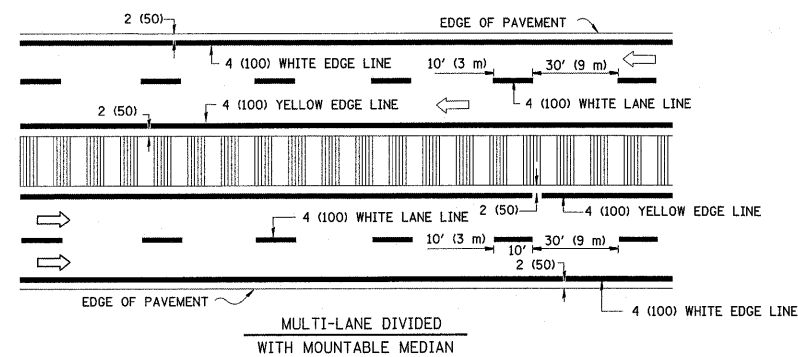
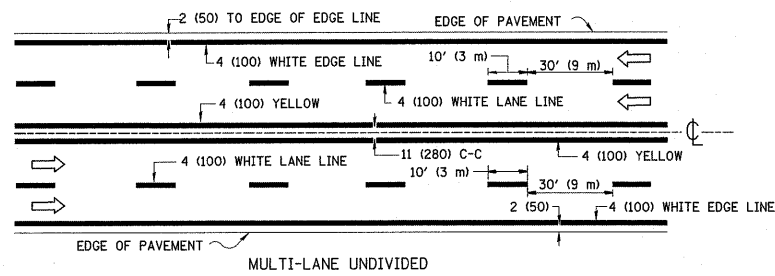
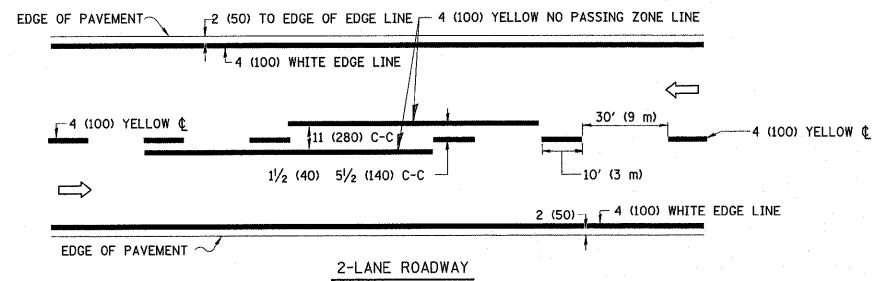
1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS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



LEFT TURN

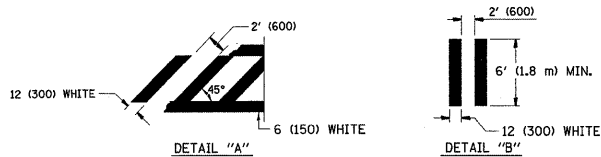
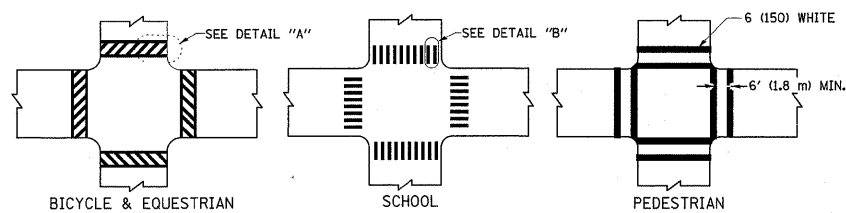
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME = c:\pwork\pwork\hamdenah\0252916\013011-sht-plendgn	USER NAME = hamdenah	DESIGNED -	REVISED - T. RAMMACHER 09-19-94	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL APPLICATIONS</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED - T. RAMMACHER 03-12-99		326	105X-RS-3	McHENRY	25	21		
PLOT DATE = 10/27/2011	DATE -	REVISED - T. RAMMACHER 01-06-00	REVISED - C. JUCIUS 09-09-09	SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	<b>TC-11</b> FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
							CONTRACT NO. 60N40				

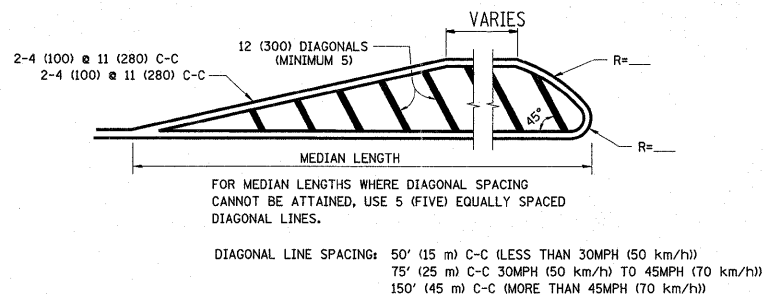
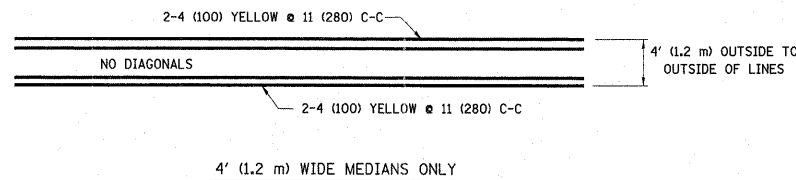


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

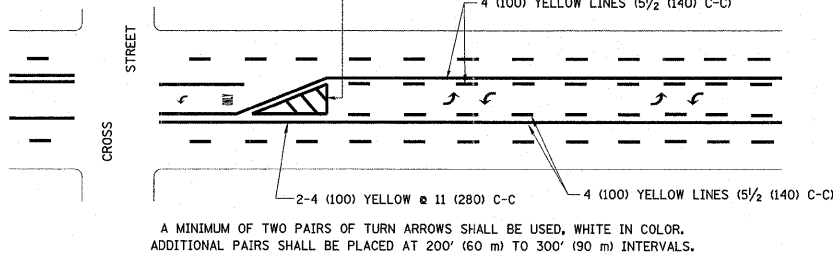
**TYPICAL LANE AND EDGE LINE MARKING**



**TYPICAL CROSSWALK MARKING**

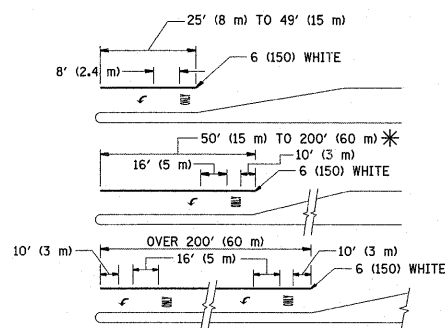


**MEDIANS OVER 4' (1.2 m) WIDE**



**MEDIAN WITH TWO-WAY LEFT TURN LANE**

**TYPICAL PAINTED MEDIAN MARKING**

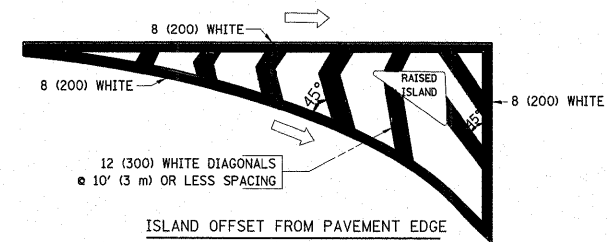


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)

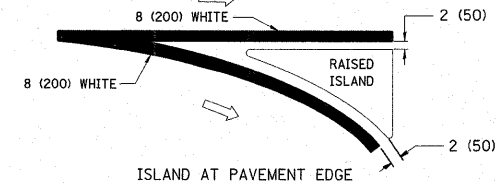
\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

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

**TYPICAL TURN LANE MARKING**



**ISLAND OFFSET FROM PAVEMENT EDGE**



**ISLAND AT PAVEMENT EDGE**

**TYPICAL ISLAND MARKING**

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

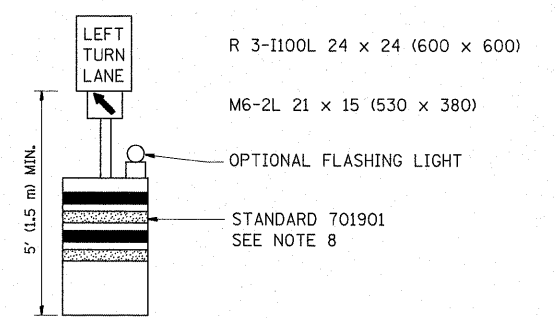
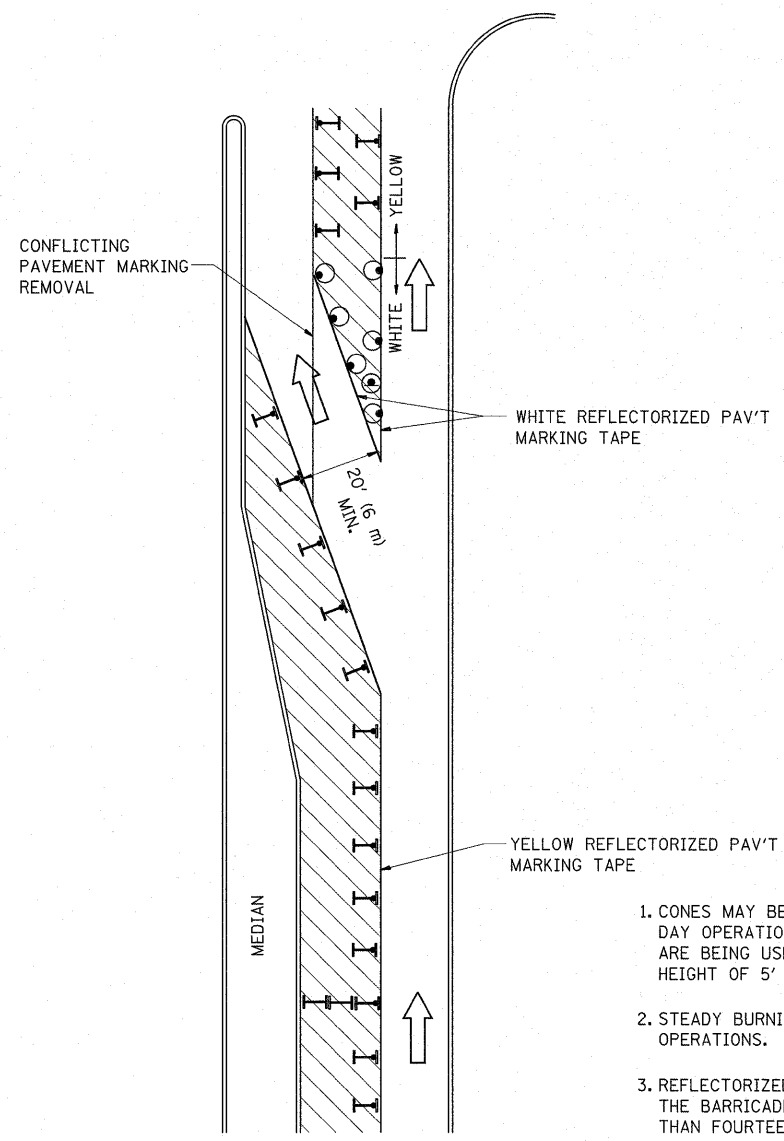
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

FILE NAME =	USER NAME = hamdanah	DESIGNED - EVERS	REVISED -T. RAMMACHER 10-27-94
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	PLOT SCALE = 50.0000 / 1 in.	CHECKED -	REVISED -
	PLOT DATE = 10/27/2011	DATE = 03-19-90	REVISED -

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE				RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TYPICAL PAVEMENT MARKINGS				326	105X-RS-3	McHENRY	25	22
SCALE: NONE				SHEET NO. 1 OF 1 SHEETS		STA. TO STA.		CONTRACT NO. 60N40
				FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

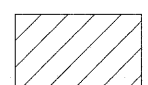
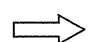






**GENERAL NOTES**

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

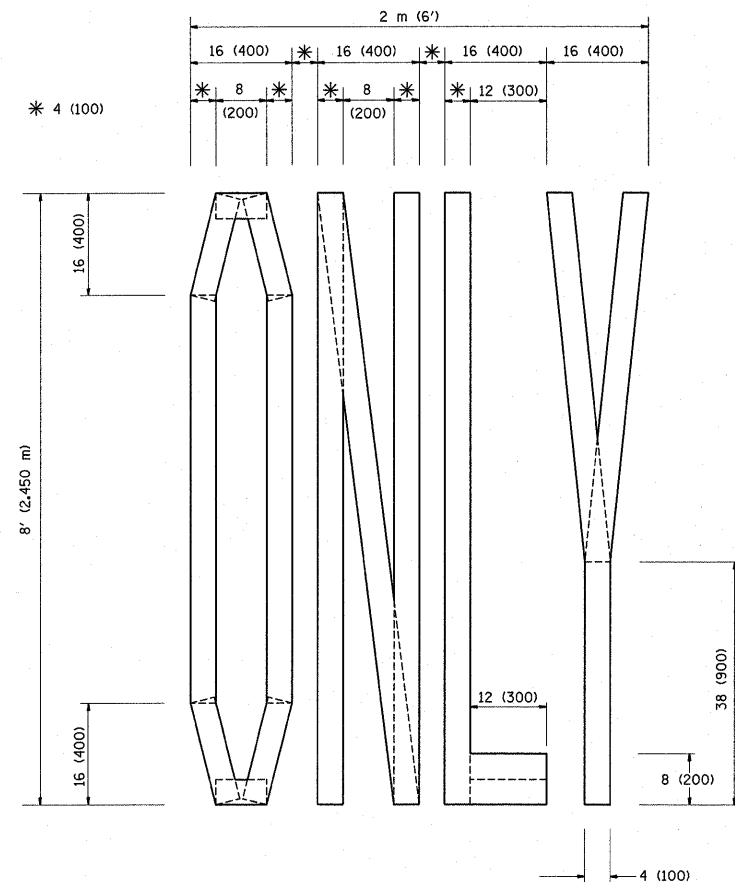
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c:\pw\work\pwsdot\hamdanah\d0252916\013\011-sht-pln.dgn		REVISED - A. HOUSEH 11-07-95	REVISED -
PLOT SCALE = 50.0000' / 1" =		REVISED - A. HOUSEH 10-12-96	REVISED -
PLOT DATE = 10/27/2011		REVISED - T. RAMMACHER 01-06-00	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

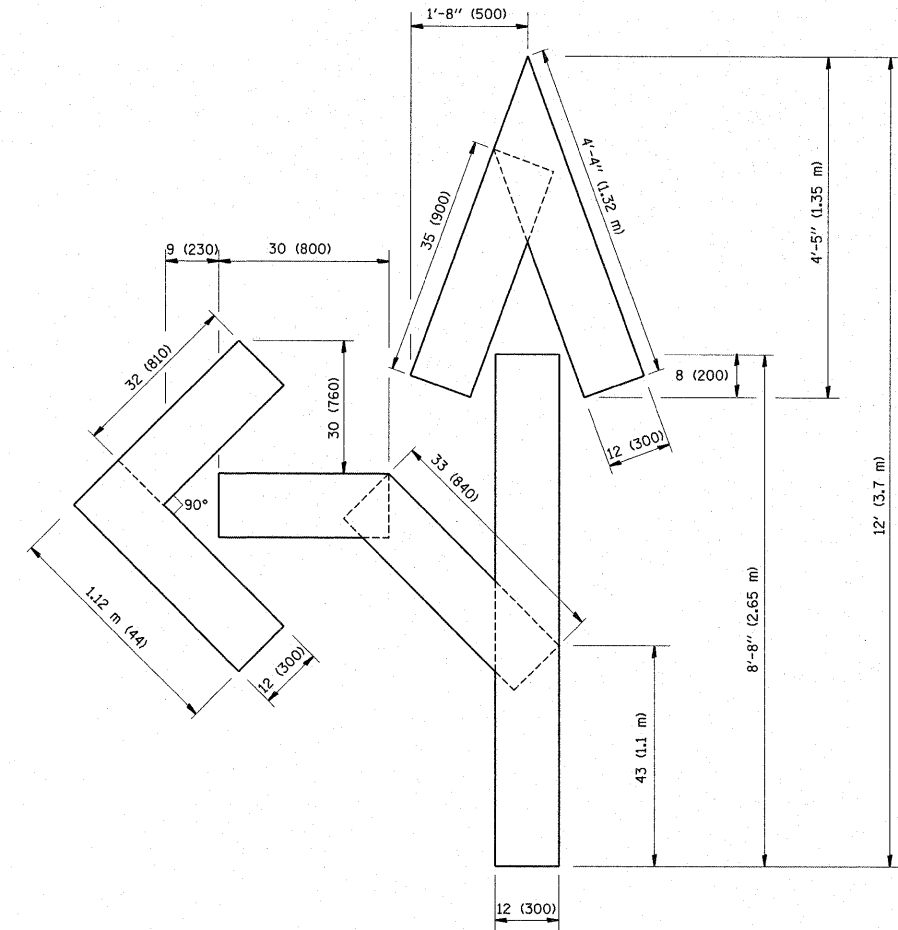
**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS  
(TO REMAIN OPEN TO TRAFFIC)**

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

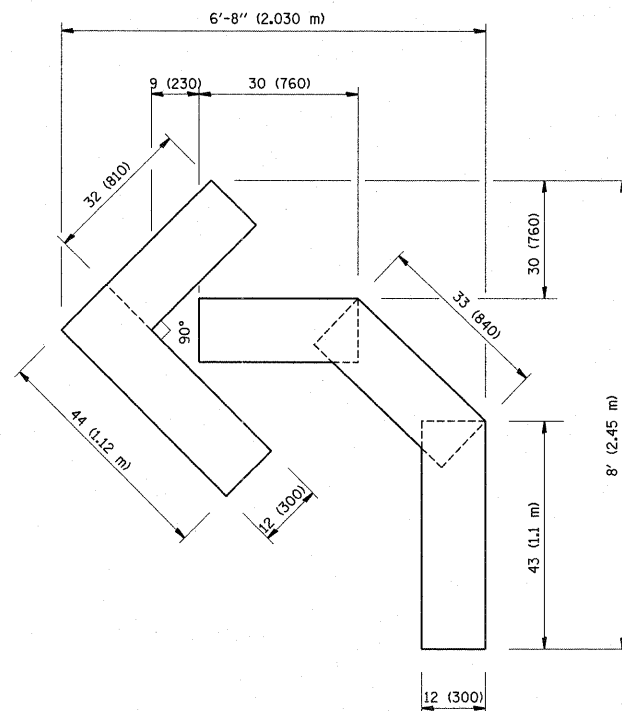
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105X-RS-3	McHENRY	25	23
<b>TC-14</b>			<b>CONTRACT NO. 60N40</b>	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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)

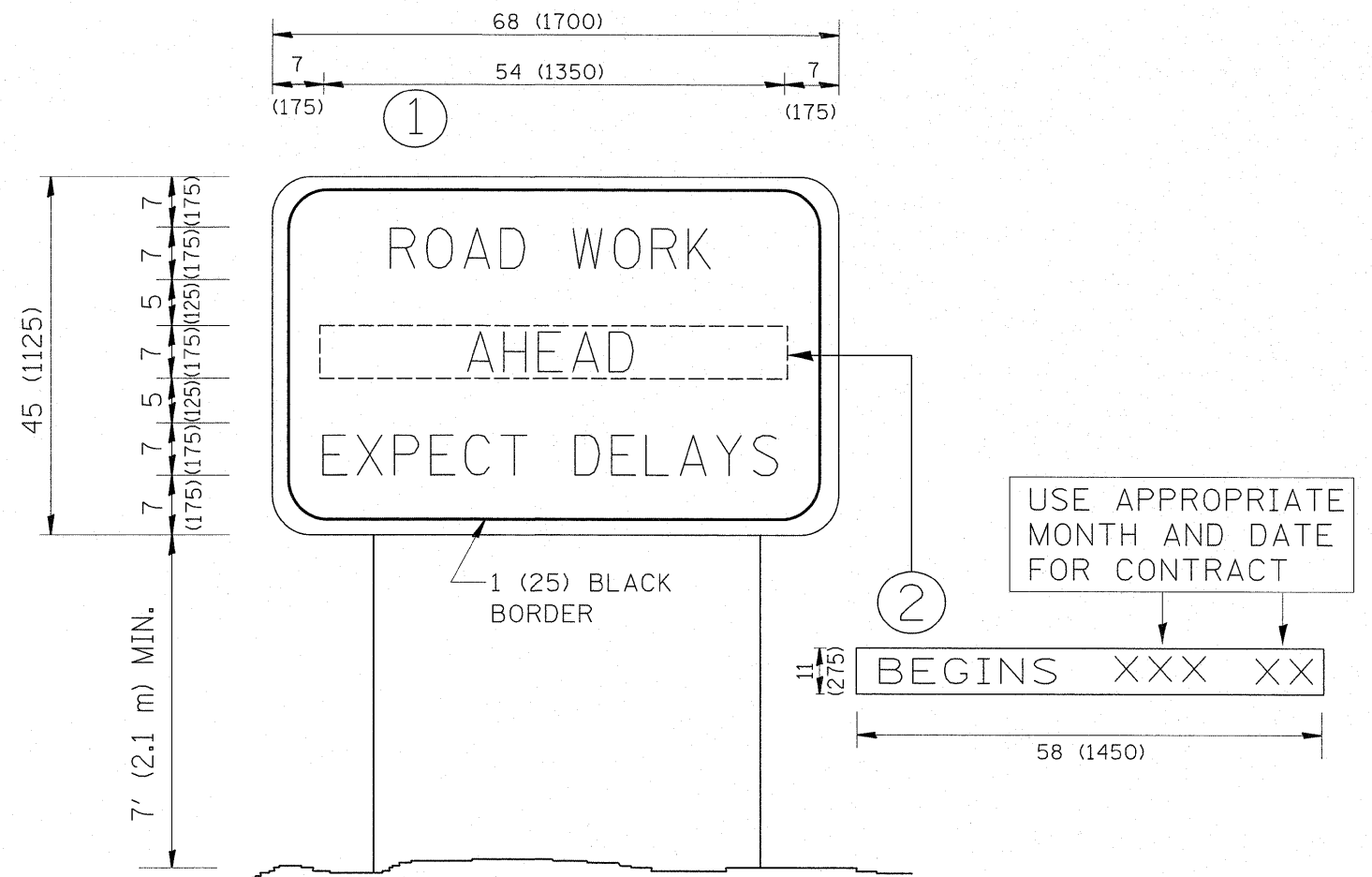


QUANTITY  
 4 (100) LINE = 45.5 ft. (13.9 m)  
 15.2 sq. ft. (1.39 sq. m)

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

FILE NAME =	USER NAME = hamdanah	DESIGNED -	REVISED -T. RAMMACHER 06-05-96	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw_work\pwsdot\hamdanah\d0252916\013011-sht-plan.dgn		DRAWN -	REVISED -T. RAMMACHER 11-04-97					326	105X-RS-3	McHENRY	25	24
PLOT SCALE = 50.0000' / 1"		CHECKED -	REVISED -T. RAMMACHER 03-02-98		<b>TC-16</b>			CONTRACT NO. 60N40				
PLOT DATE = 10/27/2011		DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
				SCALE: NONE			SHEET NO. 1 OF 1 SHEETS		STA. TO STA.			





**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 =	USER NAME = hamdaneh	DESIGNED -	REVISED - R. MIRS 09-15-97
c:\pw_work\pwidot\hamdaneh\0252916\013011-sht-plandgn		DRAWN -	REVISED - R. MIRS 12-11-97
PLOT SCALE = 50.0000 // in.		CHECKED -	REVISED - T. RAMMACHER 02-02-99
PLOT DATE = 10/27/2011		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.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105X-RS-3	McHENRY	25	25
TC-22			CONTRACT NO. 60N40	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				