

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-3,4,5)I-2	IROQUOIS	5	1
		ILLINOIS	CONTRACT NO. 66A14	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS**

**PROPOSED  
HIGHWAY PLANS**

**FAI ROUTE 57 (I-57)  
SECTION (38-3,4,5)I-2  
PROJECT IM-057-6(187)286  
INTERMITTENT RESURFACING  
IROQUOIS COUNTY**

C-93-088-10

**INDEX OF SHEETS**

- 1 COVER SHEET & STANDARDS
- 2 GENERAL NOTES & SUMMARY OF QUANTITIES
- 3 TYPICAL SECTION
- 4 SCHEDULE OF QUANTITIES
- 5 DETAILS

**STANDARDS**

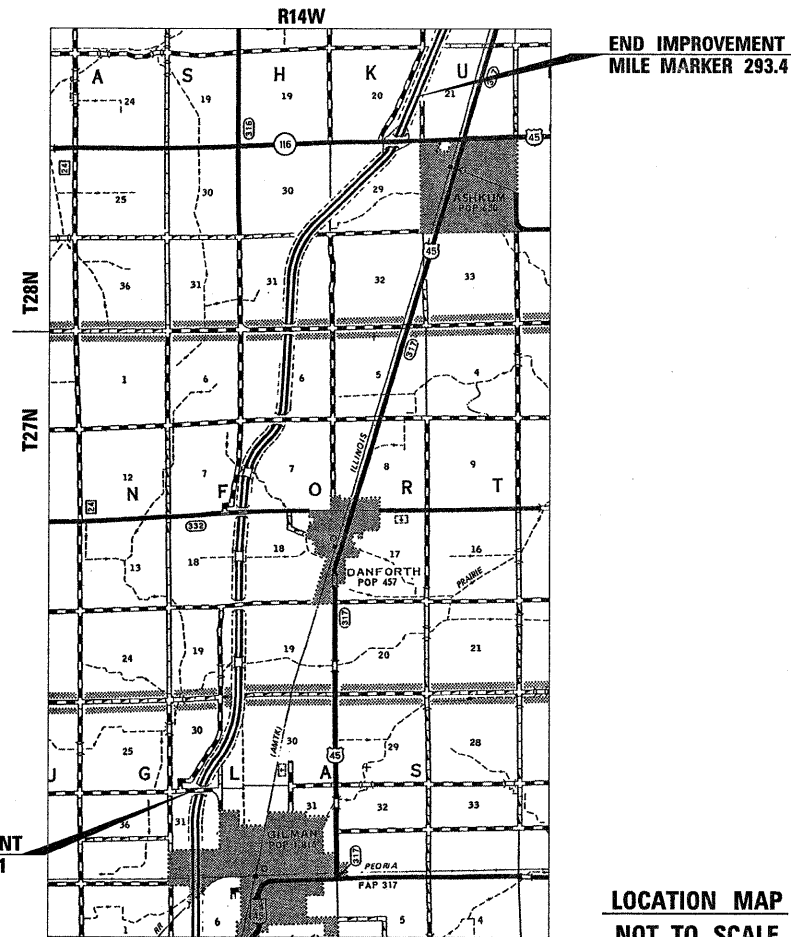
- |           |  |
|-----------|--|
| 000001-05 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS                                     |
| 202001-01 | EARTH MEDIAN DITCH CHECK   |
| 701400-04 | APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY                                     |
| 701401-05 | LANE CLOSURE, FREEWAY/EXPRESSWAY   |
| 701411-06 | LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP<br>FOR SPEEDS ≥ 45 MPH         |
| 701426-03 | LANE CLOSURE, MULTILANE INTERMITTENT OR MOVING OPERATION,<br>FOR SPEEDS ≥ 45 MPH |
| 701901-01 | TRAFFIC CONTROL DEVICES  |
| 780001-02 | TYPICAL PAVEMENT MARKINGS  |
| 781001-03 | TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS                          |

MICROFILMED \_\_\_\_\_  
REEL NUMBER \_\_\_\_\_  
AWARDED \_\_\_\_\_  
RESIDENT ENGINEER \_\_\_\_\_  
AS BUILT CHANGES WERE MADE  
ON THE FOLLOWING SHEETS \_\_\_\_\_

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

**PROJECT ENGINEER: CRAIG REED  
UNIT CHIEF: BRAD DUNCAN  
TOWNSHIPS: ASHKUM, DANFORTH, DOUGLAS**

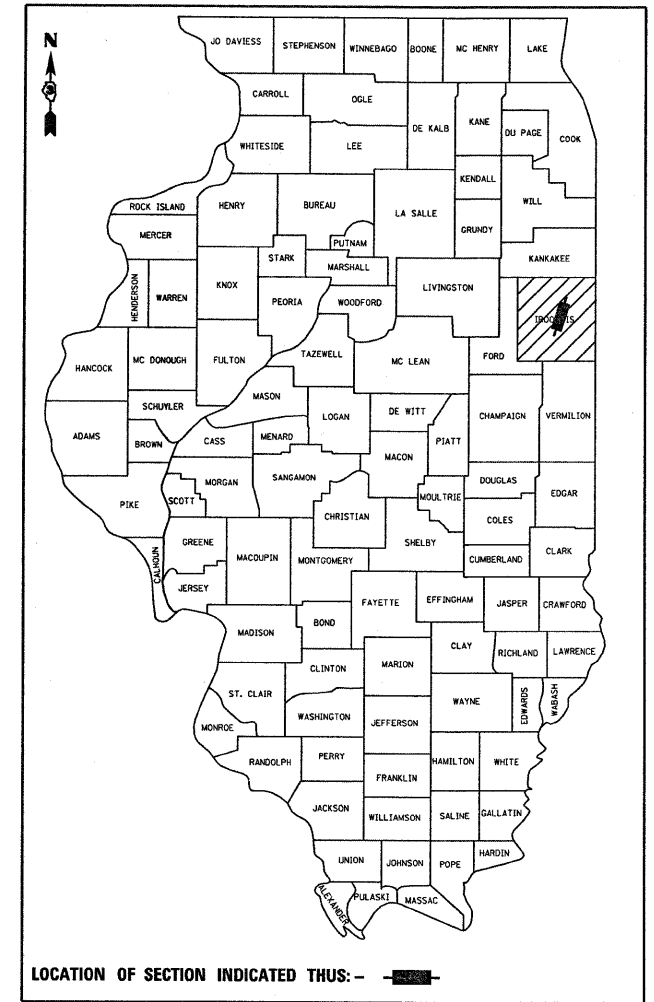
**CONTRACT NO. 66A14**



**LOCATION MAP  
NOT TO SCALE**

GROSS LENGTH = 8.3 MI  
NET LENGTH = 6.35 MI.

D-93-038-10



**INTERSTATE (RURAL)**  
2008 ADT = 16900  
P.V. = 63.2% S.U. = 5.8% M.U. = 31.0%

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS**

SUBMITTED January 28, 2010

George Ryan  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

March 19, 2010  
Scott E. Stitt, P.E.  
Acting ENGINEER OF DESIGN AND ENVIRONMENT

March 19, 2010  
Christina M. Reed  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS**

**GENERAL NOTES**

THE THICKNESS OF HMA SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA IS PLACED.

THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.

ON EXISTING PAVEMENT WHICH MAY BE SUPERELEVATED, THE NEW HMA PAVEMENT SHALL BE BUILT WITH THE SAME SUPERELEVATION UNLESS NEW SUPERELEVATION RATES ARE GIVEN ON THE PLANS.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

BITUMINOUS MATERIALS (PRIME COAT)	0.08	GAL / SQ YD
AGGREGATE PRIME COAT	0.002	TONS / SQ YD
HMA RESURFACING	112	LBS / SQ YD / IN
SHORT TERM PAVEMENT MARKING	10	FT / 100 FT OF APPLICATION
MIX FOR CRACKS, JTS & FLGWYS	0.0003	TONS / SQ YD

**SUMMARY OF QUANTITIES**

CODE NO.	ITEM	CONSTRUCTION CODE TYPE:		1000-2A
		UNIT	90/10 FED/ST TOTAL QUANTITY	
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	7376	
40600300	AGGREGATE (PRIME COAT)	TON	183	
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	27	
40600895	CONSTRUCTING TEST STRIP	EACH	1	
40603550	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N105	TON	10237	
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	91403	
44000165	HOT-MIX ASPHALT SURFACE REMOVAL, 4"	SQ YD	800	
48203100	HOT-MIX ASPHALT SHOULDERS	TON	179	
67100100	MOBILIZATION	L SUM	1	
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	4	
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1	
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	5702	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1882	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	62625	
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	1791	
* 78004230	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6"	FOOT	14240	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	1424	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	1424	

\* SPECIALTY ITEMS

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DISTRICT THREE

PREPARED BY: David Brumil  
ACTING DISTRICT STUDIES & PLANS ENGINEER

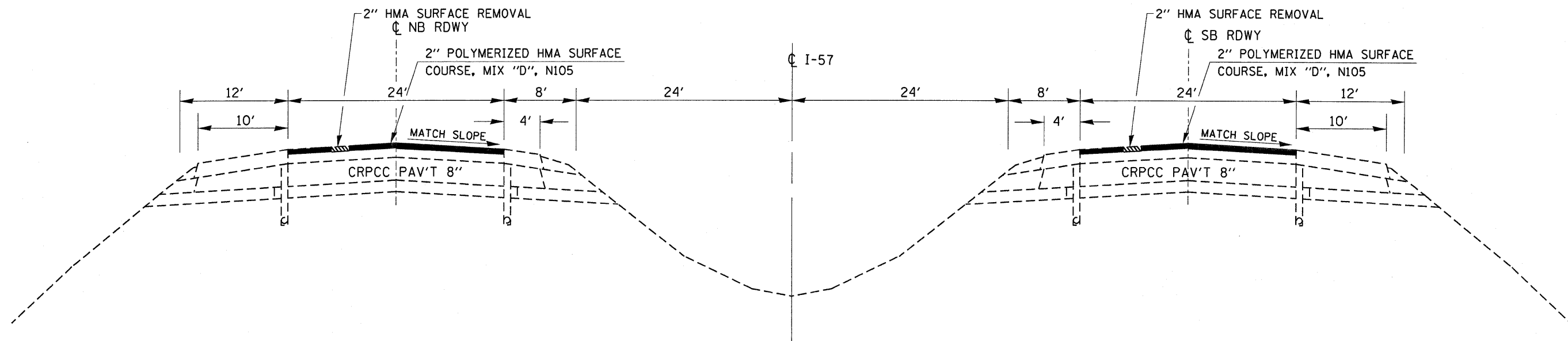
DATE: January 28, 2010

EXAMINED BY: Herbert K. King  
DISTRICT CONSTRUCTION ENGINEER

Don J. Patis  
DISTRICT MATERIALS ENGINEER

Samuel A. Wucher  
DISTRICT OPERATIONS ENGINEER

FILE NAME =	USER NAME = duncanbd	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL NOTES &amp; SUMMARY OF QUANTITIES</b>				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
ct:\pwr\work\PWIDOT\UNDCANBD\0178411\0366A14-sht-details.dgn		DRAWN -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	57	(38-3,4,5)I-2	IROQUOIS	5	2
		CHECKED -	REVISED -		CONTRACT NO. 66A14										
		DATE -	REVISED -		ILLINOIS FED. AID PROJECT										



**NOTE:**  
**WHEN PAVING ONLY ONE LANE EXTEND MILLING & RESURFACING 1' PAST CENTERLINE INTO ADJACENT LANE**

**TYPICAL SECTION**

**MIXTURES TABLE**

	POLY HMA SURFACE	HMA SHOULDERS SHOULDER REPAIR
PG GRADE	SBS-PG70-22	PG64-22
DESIGN AIR VOIDS	4.0% @ N105	4.0% @ N70
MIXTURE COMPOSITION	IL 12.5 OR IL 9.5	IL 19.0
FRICTION AGGREGATE	MIXTURE D	
DENSITY TEST METHOD	CORRELATION	CORES/ CORRELATION

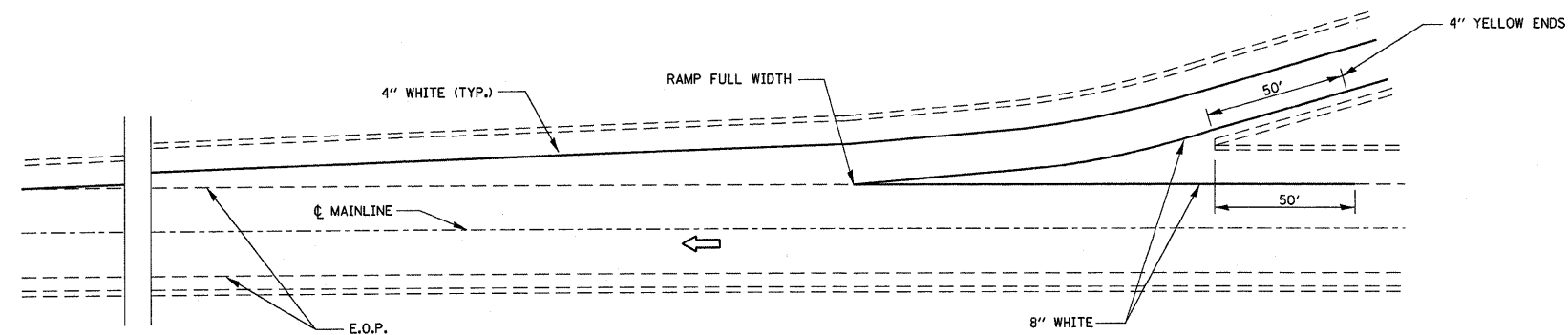
MAINLINE						
LOCATIONS MILE MARKERS	LENGTH	HMA SURF	MIX FOR JTS	BIT MAT	AGG.	POLY HMA SURF
		REM 2" SQ YD	CRKS & FLANG TON	PRIME COAT GALLON	PR CT TON	CSE "D", N105 TON
SOUTHBOUND DRIVING LANE						
285.6 - 287.8*	11616	16779	5.0	1342	33.6	1879.2
288.3 - 291.5	16896	24405	7.3	1952	48.8	2733.4
292.0 - 293.4	7392	9856	3.0	788	19.7	1103.9
SOUTHBOUND PASSING LANE						
292.0 - 293.4	7392	9856	3.0	788	19.7	1103.9
NORTHBOUND DRIVING LANE						
285.0 - 285.1	528	763	0.2	61	1.5	85.4
286.1 - 287.5**	7392	10677	3.2	854	21.4	1195.9
288.7 - 288.9	1056	1525	0.5	122	3.1	170.8
289.3 - 289.4	528	763	0.2	61	1.5	85.4
289.9 - 290.1	1056	1525	0.5	122	3.1	170.8
290.7 - 290.8	528	763	0.2	61	1.5	85.4
291.0 - 291.8	4224	6101	1.8	488	12.2	683.3
292.1 - 292.5	2112	3051	0.9	244	6.1	341.7
292.7 - 293.4	3696	5339	1.6	427	10.7	597.9
TOTALS	64416	91403	27	7312	183	10237

\* MILE 285.7 SB STRUCTURE OMISSION - SN 038-0167  
MILE 286.68 SB STRUCTURE OMISSION - SN 038-0010  
MILE 287.74 SB STRUCTURE OMISSION - SN 038-0158  
\*\* MILE 286.67 NB STRUCTURE OMISSION - SN 038-0009

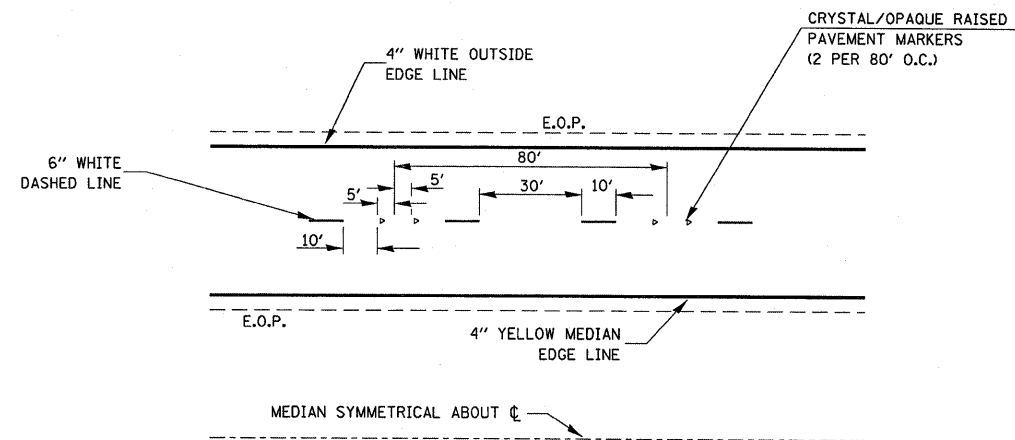
SHOULDER REPAIR			
LOCATIONS MILE MARKERS	HMA SURF	BIT MAT	HMA
	REM 4" SQ YD	PRIME COAT GALLON	SHLDS TON
VARIOUS LOCATIONS	800	64	179
TOTALS	800	64	179

FOR TRAFFIC DAMAGE TO SHOULDER DURING MAINLINE PAVING

PAVEMENT MARKING								
LOCATIONS MILE MARKERS	LENGTH	THERMOPLASTIC		PREF PLAST	RAISED REFL	RAISED REFL	SHORT TERM	WORK ZONE
		LINE 4"	LINE 8"	TY B INLAID 6"	PAVT MARK	PAVT MARK REM	PAVT MARK	PAVT MARK REM
		FOOT	FOOT	FOOT	EACH	EACH	FOOT	SQ FT
SOUTHBOUND DRIVING LANE								
285.6 - 287.8	11616	11616		2900	290	290	1162	383.3
288.3 - 291.5	16896	16896		4220	422	422	1690	557.6
292.0 - 293.4	7392	6503	889	1850	184	184	739	243.9
SOUTHBOUND PASSING LANE								
292.0 - 293.4	7392	7392						
NORTHBOUND DRIVING LANE								
285.0 - 285.1	528	528		130	14	14	53	17.4
286.1 - 287.5	7392	7392		1850	184	184	739	243.9
288.7 - 288.9	1056	1056		260	26	26	106	34.8
289.3 - 289.4	528	528		130	14	14	53	17.4
289.9 - 290.1	1056	1056		260	26	26	106	34.8
290.7 - 290.8	528	528		130	14	14	53	17.4
291.0 - 291.8	4224	3322	902	1060	106	106	422	139.4
292.1 - 292.5	2112	2112		530	52	52	211	69.7
292.7 - 293.4	3696	3696		920	92	92	370	122.0
TOTALS	64416	62625	1791	14240	1424	1424	5702	1882

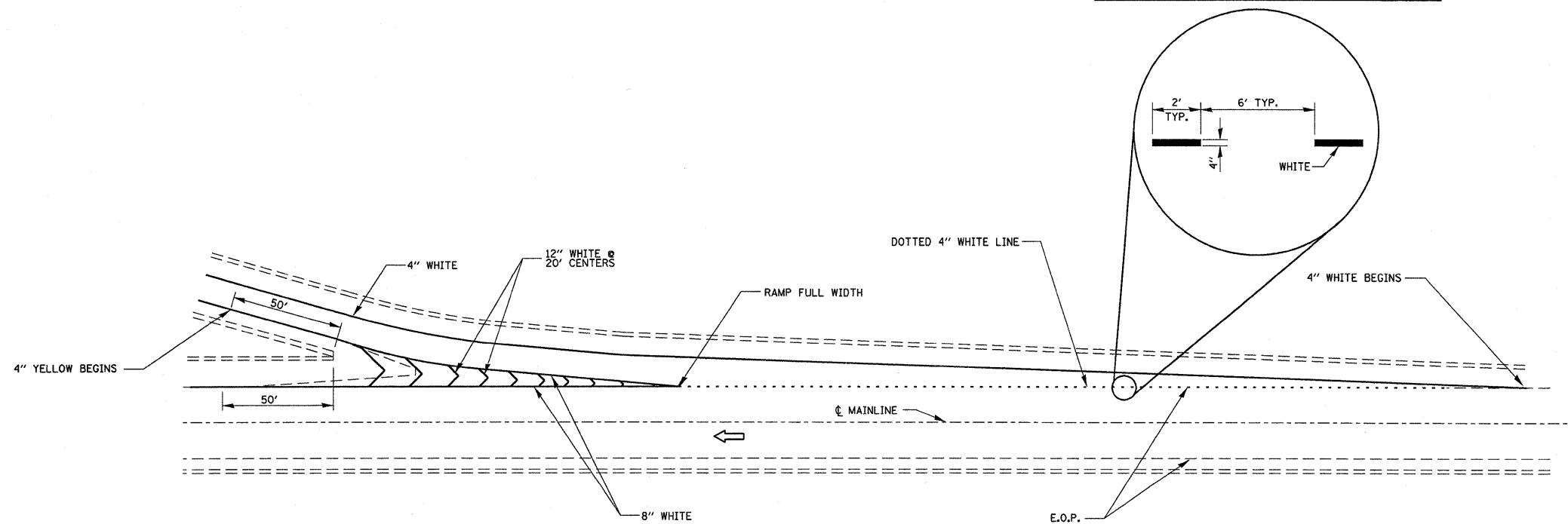


**TYPICAL PAVEMENT MARKING FOR ENTRANCE RAMP TERMINALS**

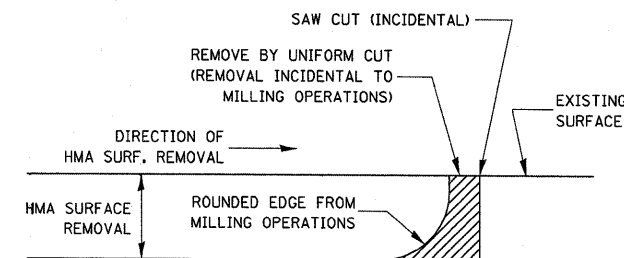


**TYPICAL PAVEMENT MARKINGS**

**INTERSTATE RAMP TRANSITION LINE**



**TYPICAL PAVEMENT MARKINGS FOR EXIT RAMP TERMINALS**



NOTE:  
WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE, THEN A SAW CUT SHALL BE USED TO MANUFACTURE A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE USE OF THIS DETAIL.

**HMA DETAIL AT BUTT JOINTS**

FILE NAME =	USER NAME = duncanbd	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DETAILS</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pwwork\pwwork\duncanbd\178411\1366A14-shr-deta1.s.dgn	PLOT SCALE = 50.0000' / IN.	DRAWN -	REVISED -					57	(38-3,4,5)-2	IROQUOIS	5	5
PLOT DATE = Jan 25, 2010 - 02:53:15 PM	DATE -	CHECKED -	REVISED -					CONTRACT NO. 66A14				
				SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		