

04-26-13 LETTING ITEM 027

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

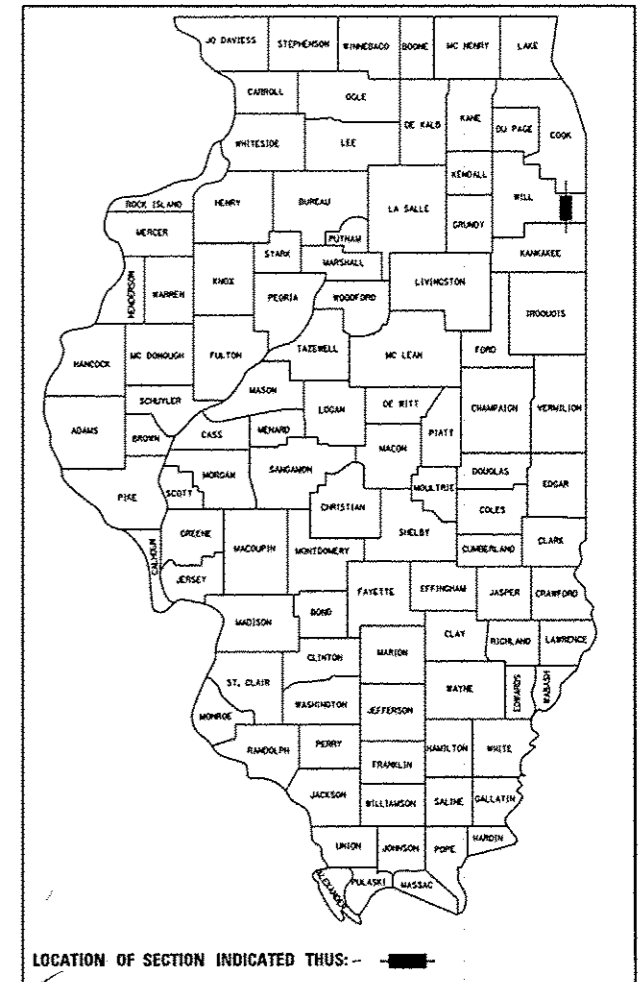
FAP 332 IL 394
SECTION 10A-RS-2

**STEGER ROAD TO S. OF ELMSCOURT LANE
RESURFACING AND SHOULDER RUMBLE STRIPS**

**WILL COUNTY
C-91-333-11**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	10A-RS-2	WILL	28	1
ILLINOIS CONTRACT NO. 60N63				

D-91-333-11



LOCATION OF SECTION INDICATED THIS: -

PROFESSIONAL ENGINEER'S SIGN & SEAL

Peter M. Johnston
 EXPIRES: 11-30-13

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUBMITTED October 15 2012
John Fortin
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

March 22 2013
John D. Baranzelli, P.E.
 acting ENGINEER OF DESIGN AND ENVIRONMENT

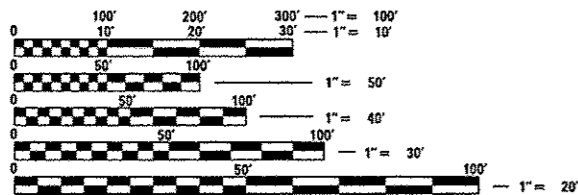
March 22 2013
Chris Osman, P.E.
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

FOR INDEX OF SHEETS, SEE SHEET NO. 2

TRAFFIC DATA

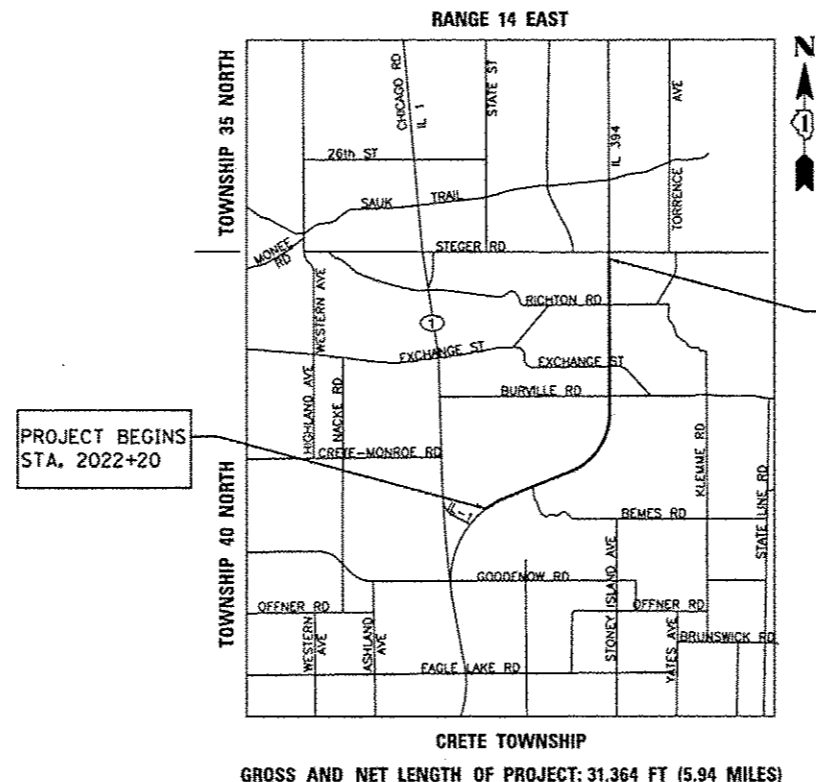
EXISTING ADT = 8,900-27,200
SPEED LIMIT = 55 MPH

THE PROJECT IS LOCATED IN THE
VILLAGES OF CRETE, STEGER AND
SAUK VILLAGE



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
1-800-692-0123
OR 811



PROJECT BEGINS
STA. 2022+20

PROJECT ENDS
STATION 2336+25

GROSS AND NET LENGTH OF PROJECT: 31,364 FT (5.94 MILES)

PROJECT ENGINEER: PETER JOHNSTON (GRAEF) 773-399-0112
PROJECT MANAGER: KEN ENG (IDOT) 847-705-4247

CONTRACT NO. 60N63

GRAEF 8501 W. Higgins Road; Suite 280
Chicago, Illinois 60631
(773) 399-0112

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

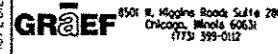
HIGHWAY STANDARDS

SHEET NO.	DESCRIPTION	STD. NO.	TITLE
1	COVER SHEET	442201-03	CLASS C AND D PATCHES
2	INDEX, GENERAL NOTES AND HIGHWAY STANDARDS	604001-03	FRAME AND LIDS TYPE I
3-5	SUMMARY OF QUANTITIES	604031-02	GRATE TYPE 7
6	TYPICAL SECTIONS	630001-10	STEEL PLATE BEAM GUARDRAIL
7-18	ROADWAY AND PAVEMENT MARKING PLANS	630201-06	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
19	TRAFFIC SIGNAL DETECTOR LOOP REPLACEMENT	635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
20	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD22)	642001-02	SHOULDER RUMBLE STRIPS, 16 IN
21	BUTT JOINTS AND HMA TAPER (BD32)	701101-03	OFF-ROAD OPERATIONS, MULTILANE, 4.5M (15') TO 600 mm (24") FROM PAVEMENT EDGE
22	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS (TC10)	701400-06	APPROACH TO LANE CLOSURE FREEWAY/EXPRESSWAY
23	RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT) (TC11)	701406-07	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
24	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC13)	701701-08	URBAN LANE CLOSURE, MULTILANE, INTERSECTION
25	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC14)	701901-02	TRAFFIC CONTROL DEVICES
26	PAVEMENT MARKINGS LETTERS AND SYMBOLS FOR TRAFFIC STAGING (TC16)	780001-03	TYPICAL PAVEMENT MARKINGS
27	ARTERIAL ROAD INFORMATION SIGN (TC22)	781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
28	DETECTOR LOOP INSTALLATION DETAIL FOR ROADWAY RESURFACING (TS07)		

GENERAL NOTES

- 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 IS REQUIRED).
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
- WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 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 THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).
- 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.
- THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM 72 HOURS IN ADVANCE OF BEGINNING WORK.
- THE RESIDENT ENGINEER SHALL CONTACT CORY JUCIUS, ARTERIAL TRAFFIC OPERATIONS ENGINEER AT (847) 705-4411 AT 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 (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE REESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
- ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- IT SHALL BE THE CONTACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- THE FOLLOWING PAY ITEMS WILL BE USED AT THE DISCRETION OF THE FIELD ENGINEER: FRAMES AND LIDS TYPE I OPEN LID, STEEL PLATE BEAM GUARDRAIL TYPE A 6 FOOT POSTS, GUARDRAIL REMOVAL, GRADING AND SHAPING SHOULDERS, STORM SEWERS TO BE CLEANED, DRAINAGE & UTILITY STRUCTURES TO BE RECONSTRUCTED AND DRAINAGE STRUCTURES TO BE CLEANED.
- REPAIR THE HOLES AND RUTTING AT THE EMERGENCY TURN AROUND WITH 100 TONS OF AGGREGATE SURFACE COURSE, TYPE B.
- FROM STATION 2165+00 TO 2185+00, THERE HAS BEEN ADDITIONAL BINDER PLACED TO CORRECT SINKING PAVEMENT. A QUANTITY OF 2,000 TONS OF POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80 HAS BEEN ADDED TO THE PLANS FOR THIS PURPOSE.

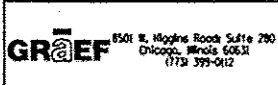
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 4501 N. Higgins Road Suite 200 Chicago, Illinois 60631 773.399.0112	USER NAME = 1405	DESIGNED - EF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 394 STEGER ROAD TO S. OF ELMSCOURT LANE INDEX OF SHEETS, HIGHWAY STANDARDS, AND GENERAL NOTES		F.A.P. RTE. 332	SECTION 10A-RS-2	COUNTY WILL	TOTAL SHEETS 28	SHEET NO. 2	
	PLOT SCALE = 100.0000' / 1" =	DRAWN - EF	REVISED -		SCALE: 1"=50'	SHEET 1	OF 1	SHEETS	STA.	TO STA.	CONTRACT NO. 60N63	
	PLOT DATE = 12/10/2012	CHECKED - RS	REVISED -		[ILLINOIS] FED. AID PROJECT							

PAY ITEM NUMBER	DESCRIPTION	UNIT	URBAN 100% STATE ROADWAY 0005	
			TOTAL QUANTITY	ROADWAY 0005
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	100	100
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	211	211
40600300	AGGREGATE (PRIME COAT)	TON	1,057	1,057
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	452	452
40600895	CONSTRUCTING TEST STRIP	EACH	3	3
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	287	287
40603148	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80	TON	29,467	29,467
40603153	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80	TON	25,467	25,467
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	8,221	8,221
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	73,408	73,408
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	3,875	3,875
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	661	661
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	11,780	11,780
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	8,200	8,200
60402110	GRATES, TYPE 7	EACH	1	1
* 63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A 6 FOOT POSTS	FOOT	200	200
63200310	GUARDRAIL REMOVAL	FOOT	200	200
64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	118,797	118,797
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6
67100100	MOBILIZATION	L SUM	1	1

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USER NAME * 1485	DESIGNED - EF	REVISED -
PLOT SCALE * 100.0000 / 1 in.	DRAWN - EF	REVISED -
PLOT DATE * 12/10/2012	CHECKED - RS	REVISED -
	DATE - 12-20-2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 394 STEGER ROAD TO S. OF ELMSCOURT LANE
SUMMARY OF QUANTITIES

SCALE: 1"=50' SHEET 1 OF 3 SHEETS STA. TO STA.

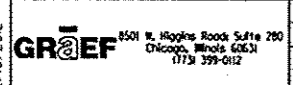
P.A.P. RTE. 332	SECTION 10A-RS-2	COUNTY WILL	TOTAL SHEETS 28	SHEET NO. 3
CONTRACT NO. 60N63				
ILLINOIS FED. AID PROJECT				

**Specialty Items*

PAY ITEM NUMBER	DESCRIPTION	UNIT	URBAN 100% STATE ROADWAY 0005	
			TOTAL QUANTITY	RURAL
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1	1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	6	6
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	25,090	25,090
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SO FT	1,456	1,456
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	250,899	250,899
70300230	TEMPORARY PAVEMENT MARKING - LINE 5"	FOOT	30,784	30,784
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	3,870	3,870
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	984	984
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	8,363	8,363
• 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	655	655
• 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	123,845	123,845
• 78000300	THERMOPLASTIC PAVEMENT MARKING - LINE 5"	FOOT	15,517	15,517
• 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	2,003	2,003
• 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	527	527
• 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	2,460	2,460
• 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	486	486
• 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	1,804	1,804
* 78200420	GUARDRAIL MARKERS, TYPE B	EACH	3	3
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	1,000	1,000

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PLLOT DATE - 12/10/2012	DATE - 12-20-2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 394 STEGER ROAD TO S. OF ELMSCOURT LANE
SUMMARY OF QUANTITIES

SCALE: 1"=50' SHEET 2 OF 3 SHEETS STA. TO STA.


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	10A-RS-2	WILL	28	4
CONTRACT NO. 60N63			ILLINOIS FED. AID PROJECT	

*Specialty Items


PAY ITEM NUMBER	DESCRIPTION	UNIT	URBAN 100% STATE	
			TOTAL QUANTITY	ROADWAY 0005 RURAL
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	519	519
X2020110	GRADING AND SHAPING SHOULDERS	UNIT	1,256	1,256
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	227,374	227,374
X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	500	500
X5537900	STORM SEWERS TO BE CLEANED 15"	FOOT	500	500
X5538200	STORM SEWERS TO BE CLEANED 24"	FOOT	3,000	3,000
X5538600	STORM SEWERS TO BE CLEANED 36"	FOOT	1,000	1,000
Z0017700	DRAINAGE & UTILITY STRUCTURES TO BE RECONSTRUCTED	EACH	19	19
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	33	33
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	308	308

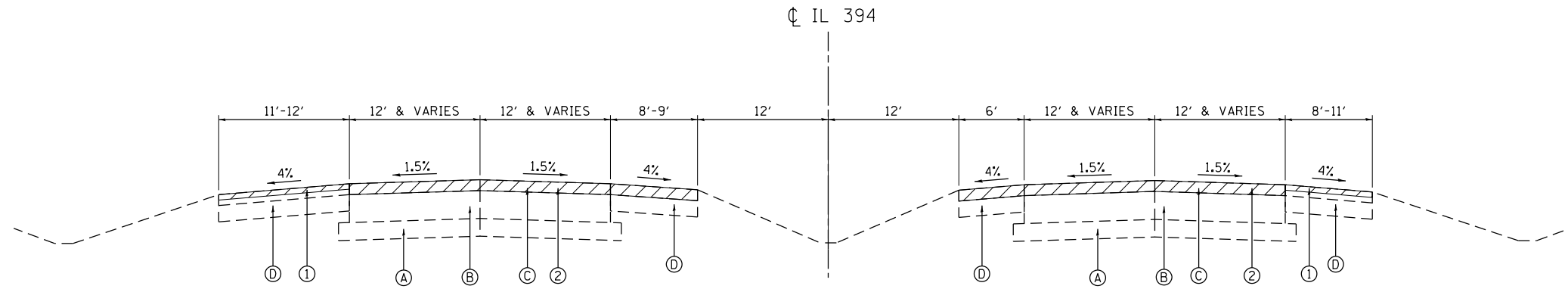
10 * DENOTES SPECIALTY ITEM

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 8501 N. Higgins Road, Suite 280 Chicago, Illinois 60631 (773) 399-0412	USER NAME - F1485	DESIGNED - EF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 394 STEGER ROAD TO S. OF ELMSCOURT LANE SUMMARY OF QUANTITIES		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE - 100.0000' / 1" = 100'	CHECKED - RS	REVISED -		332	10A-RS-2	WILL	28	5			
PLOT DATE - 12/10/2012	DATE - 12-20-2012	REVISED -	SCALE: 1"=50'		SHEET 3	OF 3	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		
										CONTRACT NO. 60663		

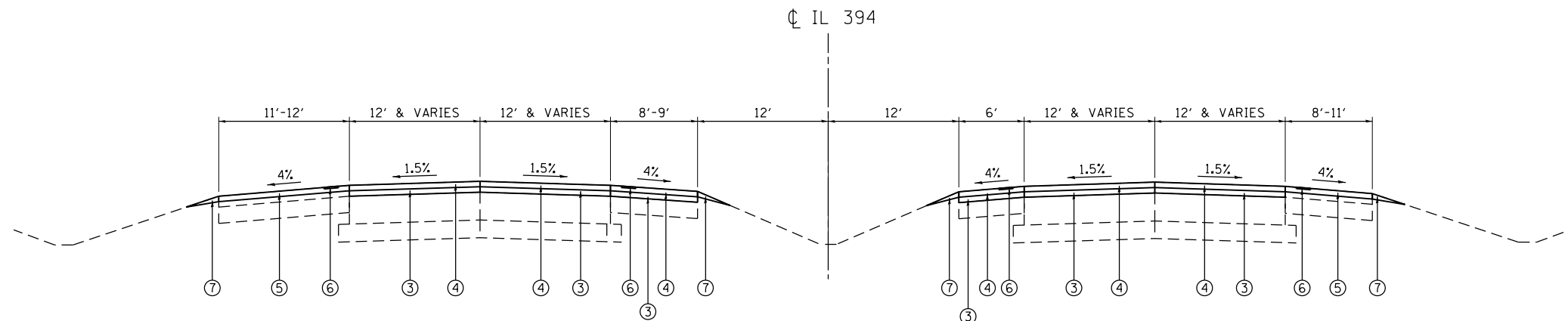
EXISTING CONDITIONS

- Ⓐ AGGREGATE BASE, 6"
- Ⓑ PCC PAVEMENT, 10"
- Ⓒ HMA PAVEMENT, 4" & VARIES
- Ⓓ HMA SHOULDER, 10"
-  ITEMS TO BE REMOVED



EXISTING IL 394 TYPICAL SECTION

STA. 2022+20 TO STA. 2336+25



PROPOSED IL 394 TYPICAL SECTION

STA. 2022+20 TO STA. 2336+25

PROPOSED IMPROVEMENTS

- ① HOT-MIX ASPHALT SURFACE REMOVAL, 2"
- ② HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH (REMOVE TO PCC PAVEMENT. MILL INSIDE SHOULDER TO MATCH DEPTH OF REMOVAL OVER PCC PAVEMENT.)
- ③ POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80, 2" (ROADWAY & INSIDE SHOULDERS)
- ④ HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 2" (ROADWAY & INSIDE SHOULDERS)
- ⑤ HOT-MIX ASPHALT SURFACE COURSE, MIX "D" N70, 2" (OUTSIDE SHOULDERS)
- ⑥ SHOULDER RUMBLE STRIPS, 16 INCH
- ⑦ AGGREGATE WEDGE SHOULDER, TYPE B

• CONTRACTOR SHALL MILL FIRST BEFORE PATCHING

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS @ Ndes
RESURFACING AND INSIDE SHOULDERS	
• POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 2"	3.5% @ 80 GYR
• POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80, 2"	3.5% @ 80 GYR
OUTSIDE SHOULDERS	
• HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5mm), 2"	4% @ 70 GYR
PATCHING	
CLASS D PATCHES (HMA BINDER IL-25mm), 10"	4% @ 105 GYR

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE A IS 112 LBS/SQ YD/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.

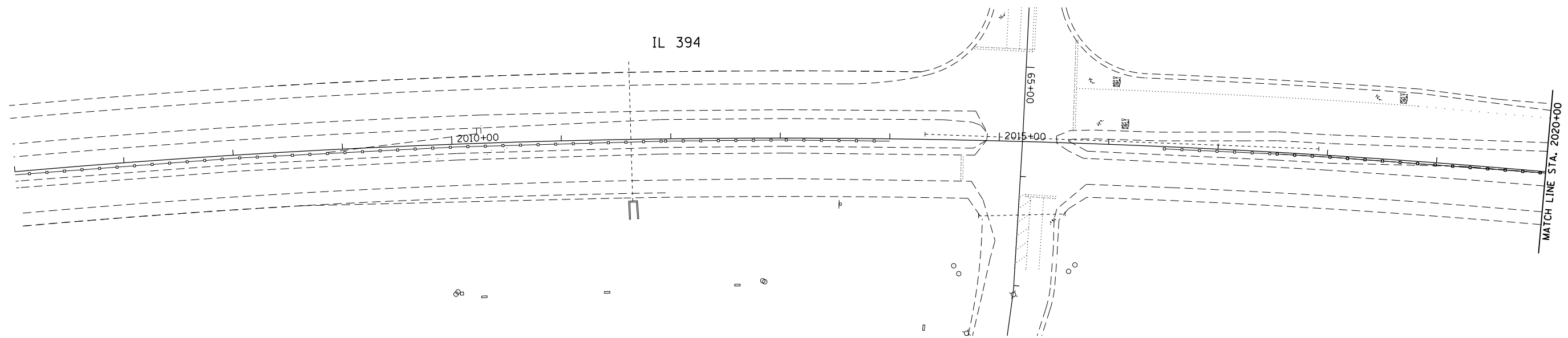
FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

• PFP SPECIAL PROVISION APPLIES TO HMA SURFACE MIX "D", N70, SMA SURFACE AND SMA BINDER

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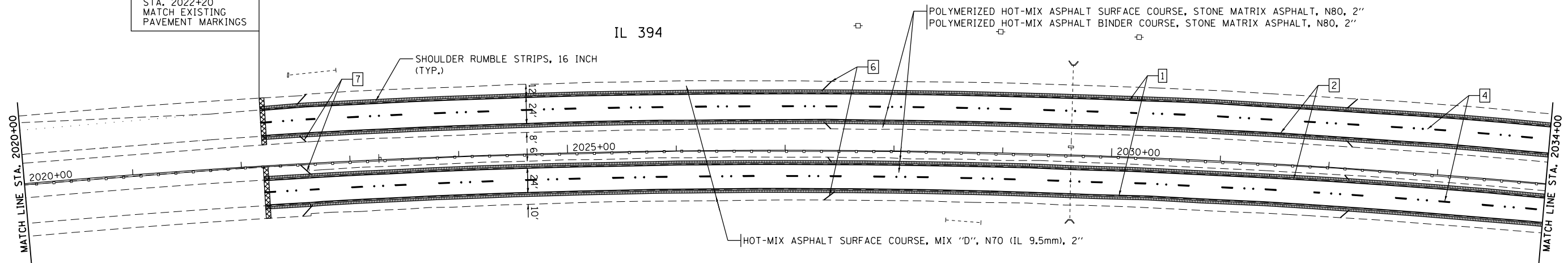
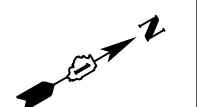
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	10A-RS-2	WILL	28	6
			CONTRACT NO. 60N63	
ILLINOIS FED. AID PROJECT				



 HOT-MIX ASPHALT SURFACE
REMOVAL BUTT JOINT

IMPROVEMENT BEGINS
STA. 2022+20
MATCH EXISTING
PAVEMENT MARKINGS



PAVEMENT MARKING LEGEND

- | | | |
|--|--|--|
| 1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE SOLID | 4 THERMOPLASTIC PAVEMENT MARKING - LINE 5" WHITE SKIP DASH
10' DASH, 30' SKIP W/2 CRYSTAL/OPAQUE RPM, 80' C-C | 7 THERMOPLASTIC PAVEMENT MARKING - LINE 12" YELLOW @ 45 DEGREE, 500' C-C |
| 2 THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW SOLID | 5 THERMOPLASTIC PAVEMENT MARKING - LINE 6" WHITE | 8 THERMOPLASTIC PAVEMENT MARKING - LINE 24" WHITE |
| 3 THERMOPLASTIC PAVEMENT MARKING - LINE 4" DOUBLE YELLOW,
2 @ 11" C-C W/ 2 AMBER 2-WAY RPM'S, 80' C-C | 6 THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE @ 45 DEGREE, 500' C-C | 9 THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS |

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Chicago, Illinois 60631
(773) 399-0112

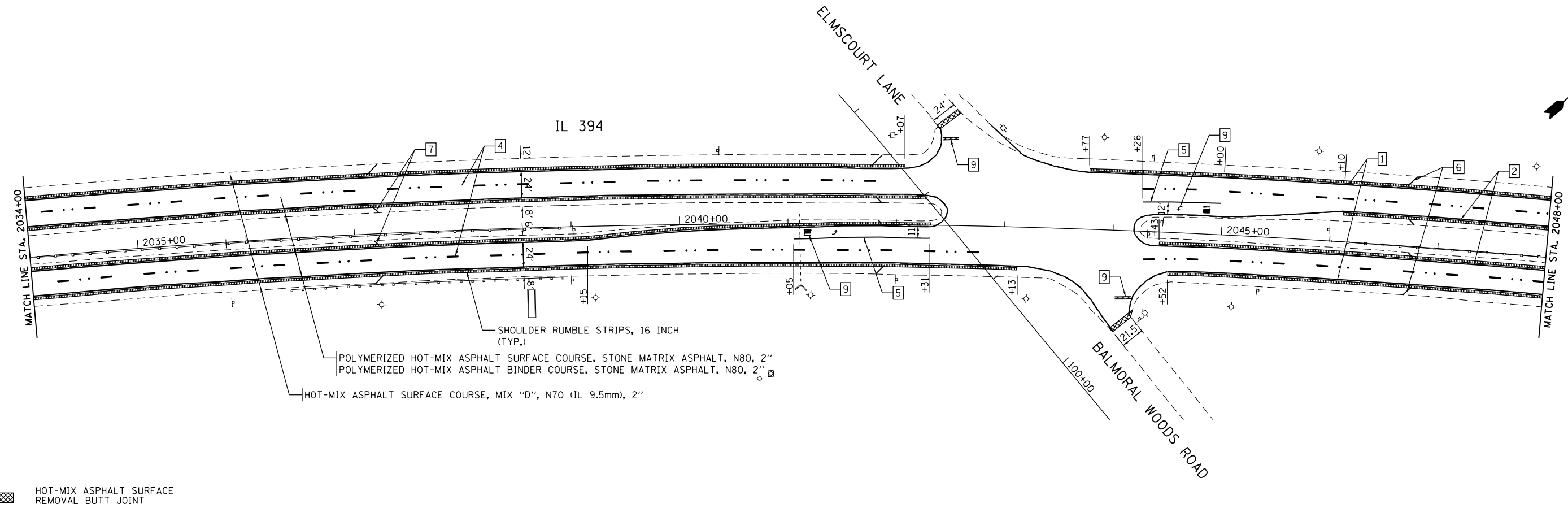
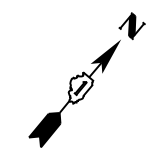
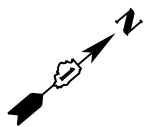
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PLOT SCALE = 100.0019' / 1"	CHECKED - RS	REVISED -
PLOT DATE = 12/10/2012	DATE - 12-20-2012	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

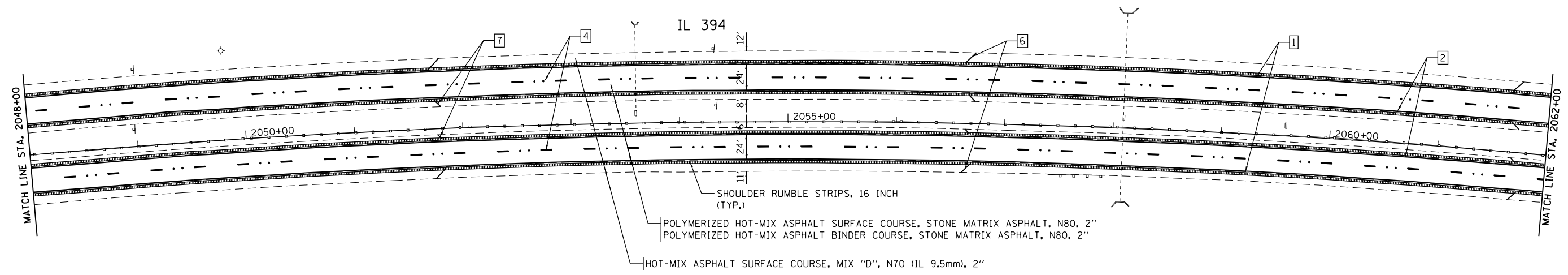
**IL 394 STEGER ROAD TO S. OF ELMSCOURT LANE
ROADWAY AND PAVEMENT MARKING PLANS**

SCALE: 1"=50' SHEET 1 OF 12 SHEETS STA. 2006+00 TO STA. 2034+00

F.A.P. RTE. 332	SECTION 10A-RS-2	COUNTY WILL	TOTAL SHEETS 28	SHEET NO. 7
CONTRACT NO. 60N63			ILLINOIS FED. AID PROJECT	



 HOT-MIX ASPHALT SURFACE REMOVAL BUTT JOINT



PAVEMENT MARKING LEGEND

- | | | |
|---|---|--|
| <p>1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE SOLID</p> <p>2 THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW SOLID</p> <p>3 THERMOPLASTIC PAVEMENT MARKING - LINE 4" DOUBLE YELLOW, 2 @ 11" C-C W/ 2 AMBER 2-WAY RPM'S, 80' C-C</p> | <p>4 THERMOPLASTIC PAVEMENT MARKING - LINE 5" WHITE SKIP DASH 10' DASH, 30' SKIP W/2 CRYSTAL/OPAQUE RPM, 80' C-C</p> <p>5 THERMOPLASTIC PAVEMENT MARKING - LINE 6" WHITE</p> <p>6 THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE @ 45 DEGREE, 500' C-C</p> | <p>7 THERMOPLASTIC PAVEMENT MARKING - LINE 12" YELLOW @ 45 DEGREE, 500' C-C</p> <p>8 THERMOPLASTIC PAVEMENT MARKING - LINE 24" WHITE</p> <p>9 THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS</p> |
|---|---|--|

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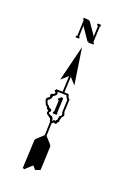
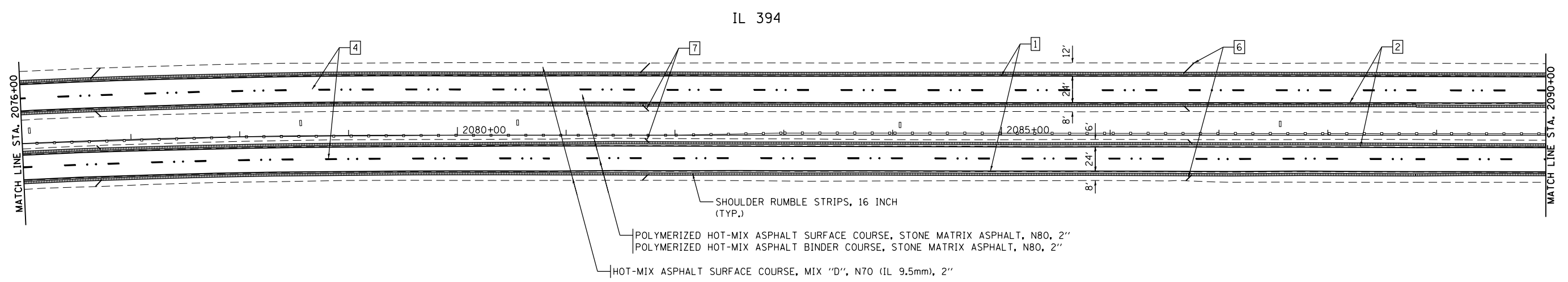
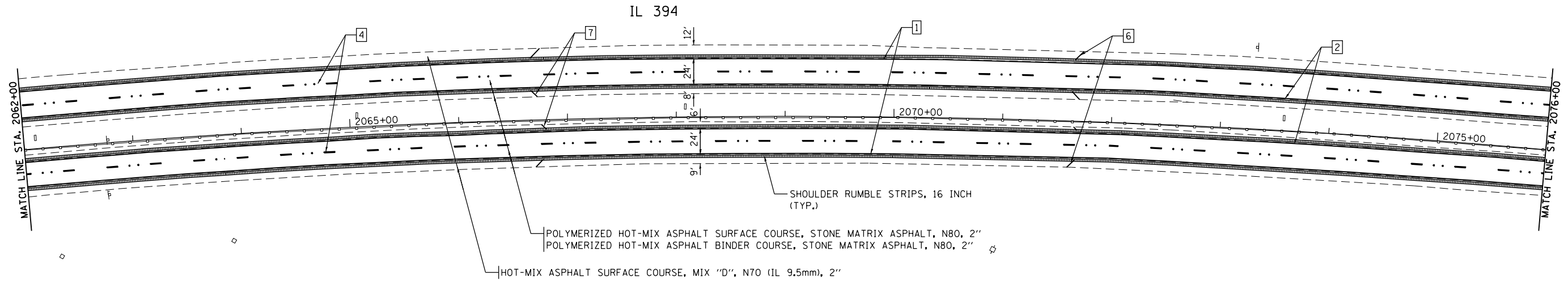


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DRAWN - EF	REVISIONS -	
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PLOT DATE = 12/10/2012	DATE - 12-20-2012	REVISIONS -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL 394 STEGER ROAD TO S. OF ELMSCOURT LANE ROADWAY AND PAVEMENT MARKING PLANS			
SCALE: 1"=50'	SHEET 2	OF 12 SHEETS	STA. 2034+00 TO STA. 2062+00

F.A.P. RTE. 332	SECTION 10A-RS-2	COUNTY WILL	TOTAL SHEETS 28	SHEET NO. 8
CONTRACT NO. 60N63				
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING LEGEND

- | | | |
|---|---|--|
| <p>1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE SOLID</p> <p>2 THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW SOLID</p> <p>3 THERMOPLASTIC PAVEMENT MARKING - LINE 4" DOUBLE YELLOW, 2 @ 11" C-C W/ 2 AMBER 2-WAY RPM'S, 80' C-C</p> | <p>4 THERMOPLASTIC PAVEMENT MARKING - LINE 5" WHITE SKIP DASH 10' DASH, 30' SKIP W/2 CRYSTAL/OPAQUE RPM, 80' C-C</p> <p>5 THERMOPLASTIC PAVEMENT MARKING - LINE 6" WHITE</p> <p>6 THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE @ 45 DEGREE, 500' C-C</p> | <p>7 THERMOPLASTIC PAVEMENT MARKING - LINE 12" YELLOW @ 45 DEGREE, 500' C-C</p> <p>8 THERMOPLASTIC PAVEMENT MARKING - LINE 24" WHITE</p> <p>9 THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS</p> |
|---|---|--|

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Chicago, Illinois 60631
(773) 399-0112

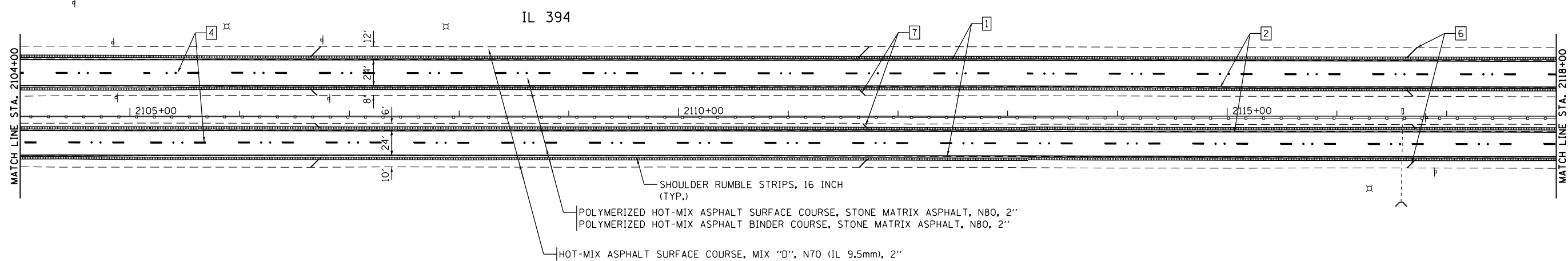
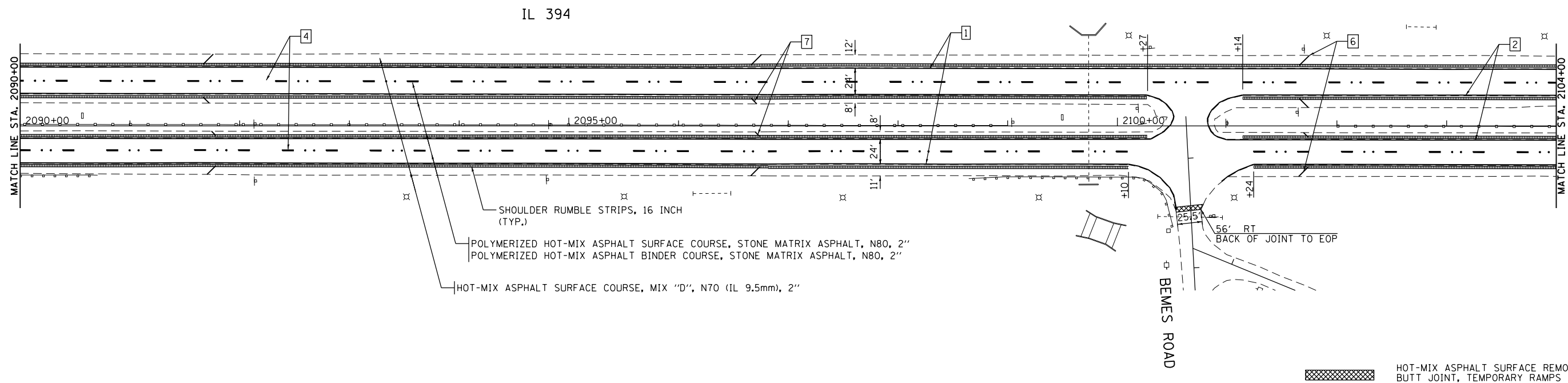
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PLOT DATE = 12/10/2012	DATE - 12-20-2012	REVISIONS -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 394 STEGER ROAD TO S. OF ELMSCOURT LANE
ROADWAY AND PAVEMENT MARKING PLANS**

SCALE: 1"=50' SHEET 3 OF 12 SHEETS STA. 2062+00 TO STA. 2090+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	10A-RS-2	WILL	28	9
CONTRACT NO. 60N63				
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING LEGEND

- | | | |
|---|---|--|
| <p>1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE SOLID</p> <p>2 THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW SOLID</p> <p>3 THERMOPLASTIC PAVEMENT MARKING - LINE 4" DOUBLE YELLOW, 2 @ 11" C-C W/ 2 AMBER 2-WAY RPM'S, 80' C-C</p> | <p>4 THERMOPLASTIC PAVEMENT MARKING - LINE 5' WHITE SKIP DASH 10' DASH, 30' SKIP W/2 CRYSTAL/OPAQUE RPM, 80' C-C</p> <p>5 THERMOPLASTIC PAVEMENT MARKING - LINE 6" WHITE</p> <p>6 THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE @ 45 DEGREE, 500' C-C</p> | <p>7 THERMOPLASTIC PAVEMENT MARKING - LINE 12" YELLOW @ 45 DEGREE, 500' C-C</p> <p>8 THERMOPLASTIC PAVEMENT MARKING - LINE 24" WHITE</p> <p>9 THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS</p> |
|---|---|--|



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Chicago, Illinois 60631
(773) 399-0112

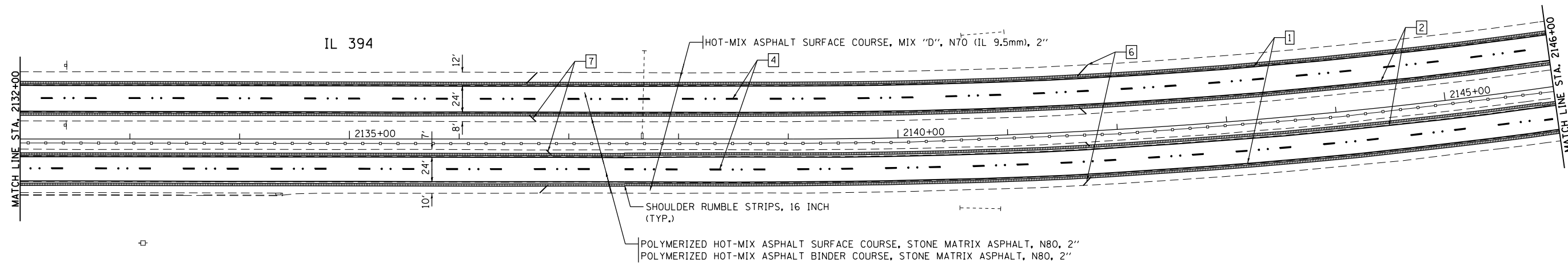
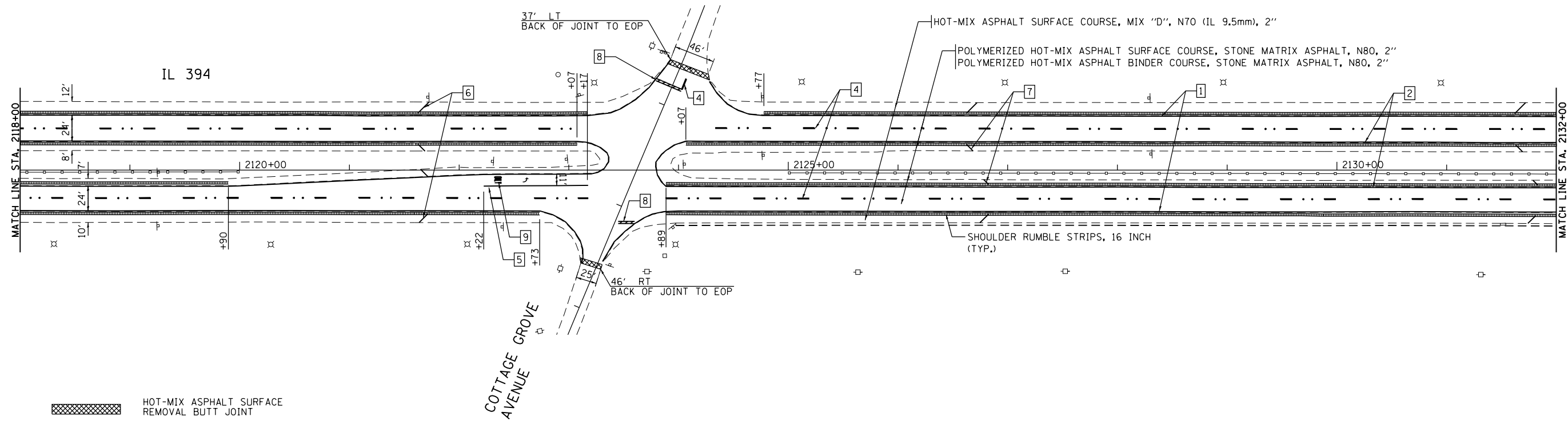
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PLOT DATE = 12/10/2012	DATE - 12-20-2012	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 394 STEGER ROAD TO S. OF ELMSCOURT LANE
ROADWAY AND PAVEMENT MARKING PLANS**

SCALE: 1"=50' SHEET 4 OF 12 SHEETS STA. 2090+00 TO STA. 2118+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	10A-RS-2	WILL	28	10
CONTRACT NO. 60N63				
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING LEGEND

- | | | |
|---|---|--|
| <p>1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE SOLID</p> <p>2 THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW SOLID</p> <p>3 THERMOPLASTIC PAVEMENT MARKING - LINE 4" DOUBLE YELLOW, 2 @ 11" C-C W/ 2 AMBER 2-WAY RPM'S, 80' C-C</p> | <p>4 THERMOPLASTIC PAVEMENT MARKING - LINE 5" WHITE SKIP DASH 10' DASH, 30' SKIP W/2 CRYSTAL/OPAQUE RPM, 80' C-C</p> <p>5 THERMOPLASTIC PAVEMENT MARKING - LINE 6" WHITE</p> <p>6 THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE @ 45 DEGREE, 500' C-C</p> | <p>7 THERMOPLASTIC PAVEMENT MARKING - LINE 12" YELLOW @ 45 DEGREE, 500' C-C</p> <p>8 THERMOPLASTIC PAVEMENT MARKING - LINE 24" WHITE</p> <p>9 THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS</p> |
|---|---|--|

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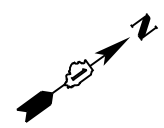
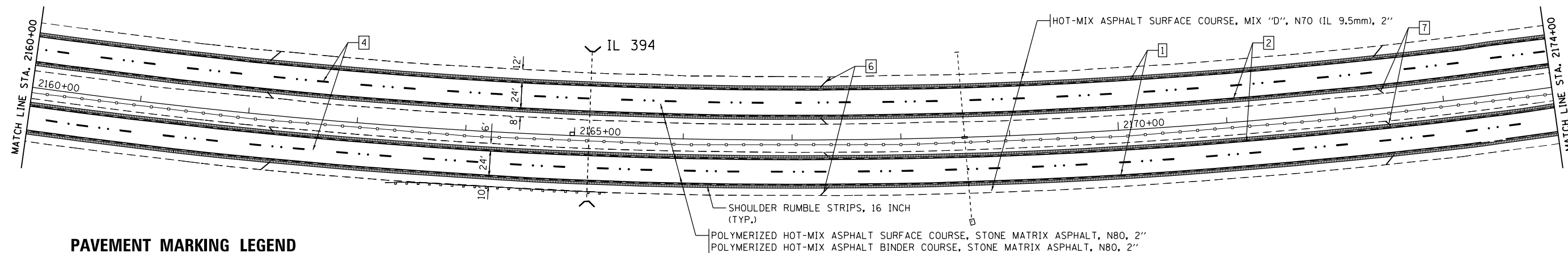
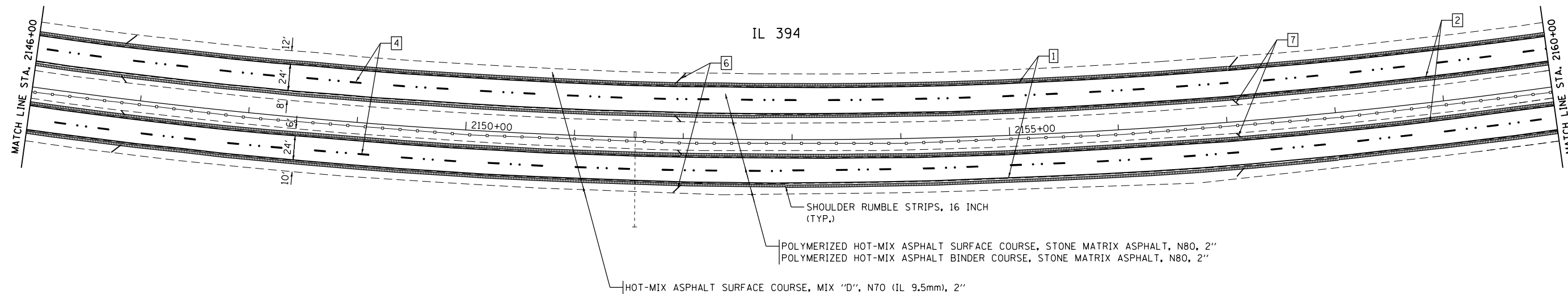
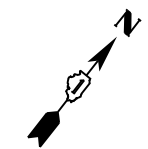


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PLOT DATE = 12/10/2012	DATE - 12-20-2012	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL 394 STEGER ROAD TO S. OF ELMSCOURT LANE ROADWAY AND PAVEMENT MARKING PLANS			
SCALE: 1"=50'	SHEET 5	OF 12 SHEETS	STA. 2118+00 TO STA. 2146+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	10A-RS-2	WILL	28	11
CONTRACT NO. 60N63				
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING LEGEND

- | | | |
|---|---|--|
| 1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE SOLID | 4 THERMOPLASTIC PAVEMENT MARKING - LINE 5" WHITE SKIP DASH 10' DASH, 30' SKIP W/2 CRYSTAL/OPAQUE RPM, 80' C-C | 7 THERMOPLASTIC PAVEMENT MARKING - LINE 12" YELLOW @ 45 DEGREE, 500' C-C |
| 2 THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW SOLID | 5 THERMOPLASTIC PAVEMENT MARKING - LINE 6" WHITE | 8 THERMOPLASTIC PAVEMENT MARKING - LINE 24" WHITE |
| 3 THERMOPLASTIC PAVEMENT MARKING - LINE 4" DOUBLE YELLOW, 2 @ 11" C-C W/ 2 AMBER 2-WAY RPM'S, 80' C-C | 6 THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE @ 45 DEGREE, 500' C-C | 9 THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS |

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Chicago, Illinois 60631
(773) 399-0112

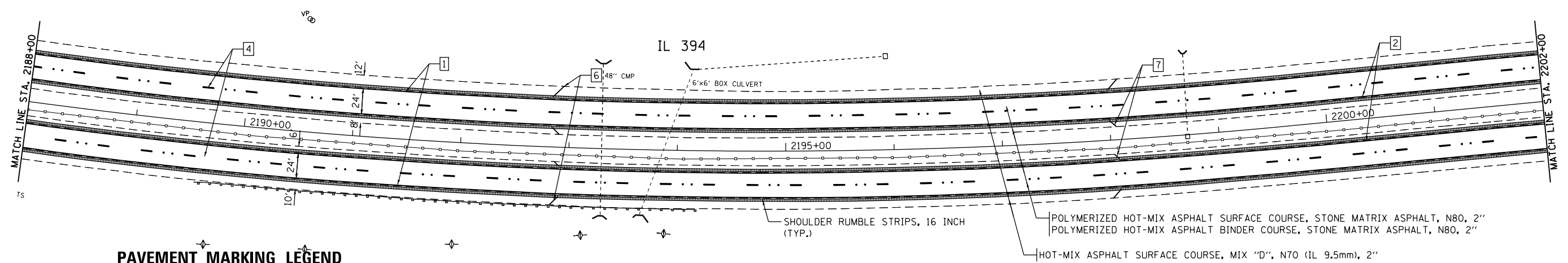
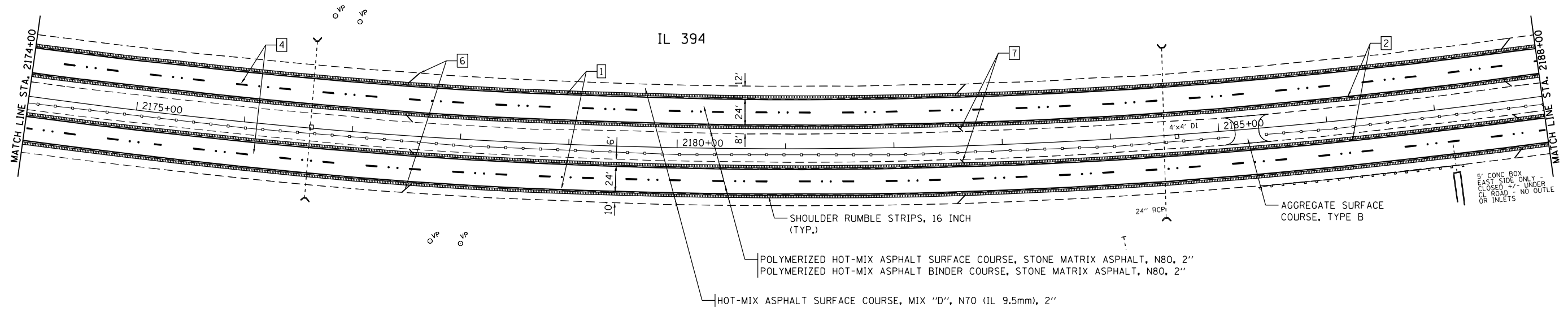
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PLOT SCALE = 100.0018' / 1"	CHECKED - RS	REVISED -
PLOT DATE = 12/10/2012	DATE - 12-20-2012	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 394 STEGER ROAD TO S. OF ELMSCOURT LANE
ROADWAY AND PAVEMENT MARKING PLANS**

SCALE: 1"=50' SHEET 6 OF 12 SHEETS STA. 2146+00 TO STA. 2174+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	10A-RS-2	WILL	28	12
CONTRACT NO. 60N63				
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING LEGEND

- | | | |
|---|---|--|
| <p>1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE SOLID</p> <p>2 THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW SOLID</p> <p>3 THERMOPLASTIC PAVEMENT MARKING - LINE 4" DOUBLE YELLOW, 2 @ 11" C-C W/ 2 AMBER 2-WAY RPM'S, 80' C-C</p> | <p>4 THERMOPLASTIC PAVEMENT MARKING - LINE 5" WHITE SKIP DASH 10' DASH, 30' SKIP W/2 CRYSTAL/OPAQUE RPM, 80' C-C</p> <p>5 THERMOPLASTIC PAVEMENT MARKING - LINE 6" WHITE</p> <p>6 THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE @ 45 DEGREE, 500' C-C</p> | <p>7 THERMOPLASTIC PAVEMENT MARKING - LINE 12" YELLOW @ 45 DEGREE, 500' C-C</p> <p>8 THERMOPLASTIC PAVEMENT MARKING - LINE 24" WHITE</p> <p>9 THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS</p> |
|---|---|--|

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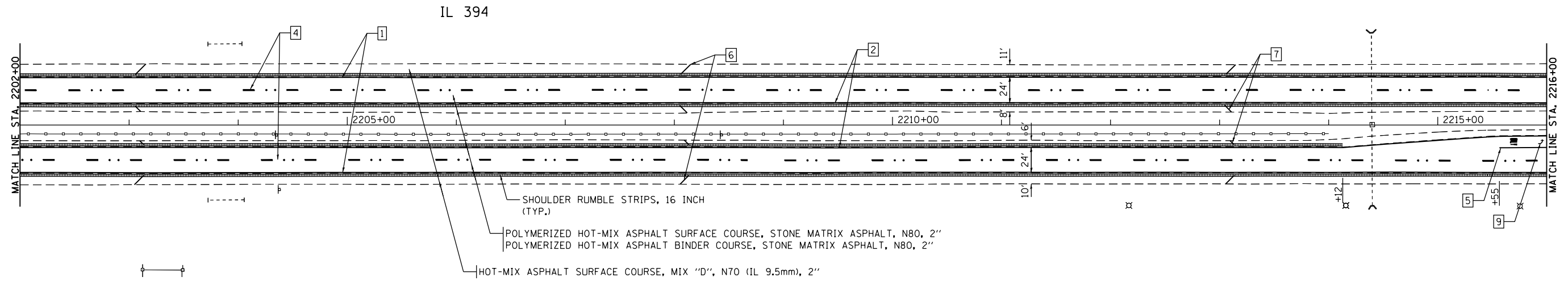
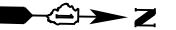


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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

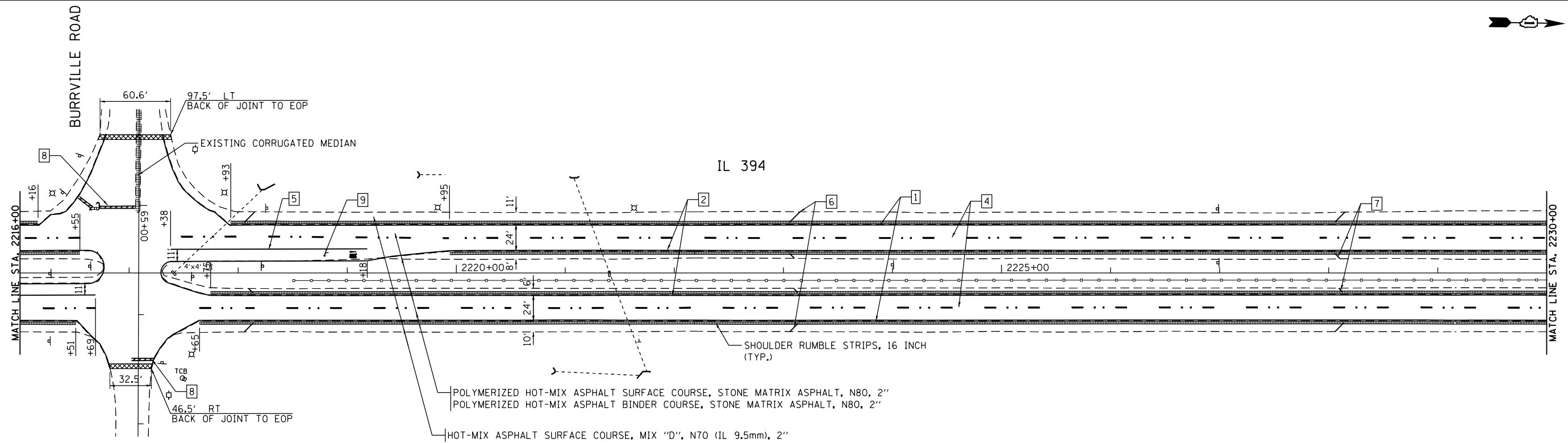
IL 394 STEGER ROAD TO S. OF ELMSCOURT LANE ROADWAY AND PAVEMENT MARKING PLANS			
SCALE: 1"=50'	SHEET 7 OF 12 SHEETS	STA. 2174+00 TO STA. 2202+00	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	10A-RS-2	WILL	28	13
CONTRACT NO. 60N63				
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING LEGEND

- | | | |
|---|---|--|
| <p>1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE SOLID</p> <p>2 THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW SOLID</p> <p>3 THERMOPLASTIC PAVEMENT MARKING - LINE 4" DOUBLE YELLOW, 2 @ 11" C-C W/ 2 AMBER 2-WAY RPM'S, 80' C-C</p> | <p>4 THERMOPLASTIC PAVEMENT MARKING - LINE 5" WHITE SKIP DASH 10' DASH, 30' SKIP W/2 CRYSTAL/OPAQUE RPM, 80' C-C</p> <p>5 THERMOPLASTIC PAVEMENT MARKING - LINE 6" WHITE</p> <p>6 THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE @ 45 DEGREE, 500' C-C</p> | <p>7 THERMOPLASTIC PAVEMENT MARKING - LINE 12" YELLOW @ 45 DEGREE, 500' C-C</p> <p>8 THERMOPLASTIC PAVEMENT MARKING - LINE 24" WHITE</p> <p>9 THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS</p> |
|---|---|--|



HOT-MIX ASPHALT SURFACE REMOVAL BUTT JOINT

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GRAEF 8501 N. Higgins Road Suite 280
Chicago, Illinois 60631
(773) 399-0112

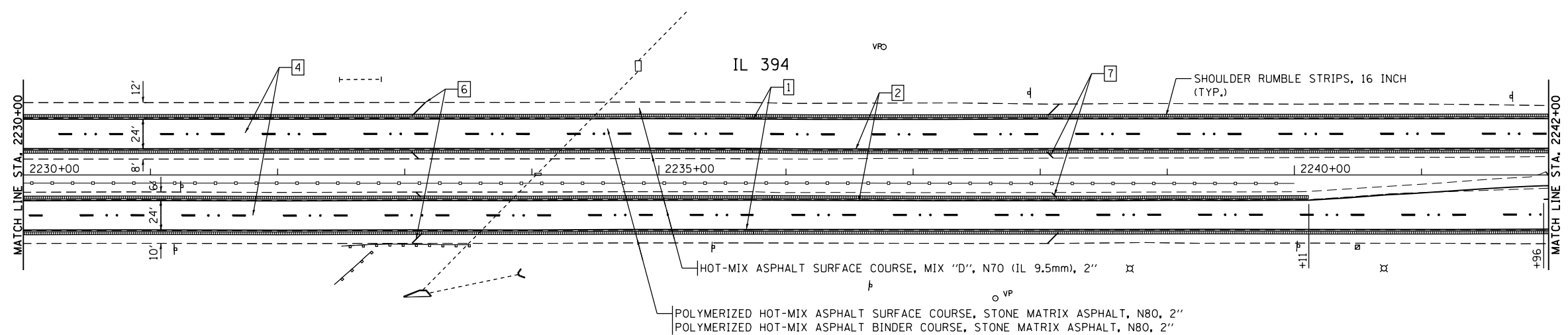
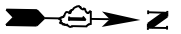
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PLOT DATE = 12/10/2012		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 394 STEGER ROAD TO S. OF ELMSCOURT LANE
ROADWAY AND PAVEMENT MARKING PLANS**

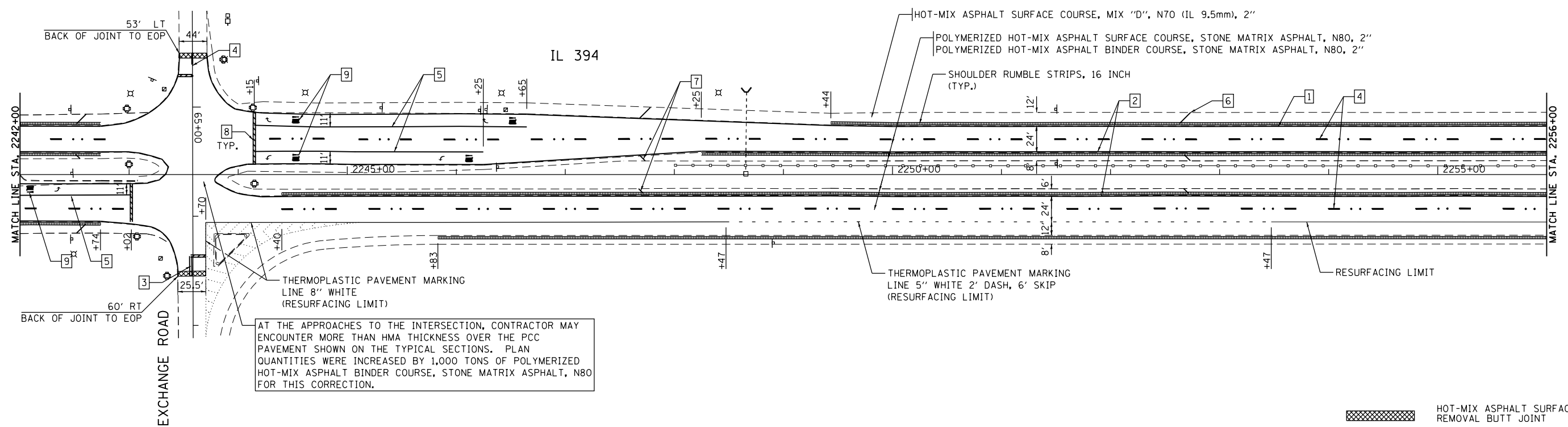
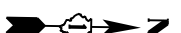
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	10A-RS-2	WILL	28	14
CONTRACT NO. 60N63				
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING LEGEND

- 1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE SOLID
- 2 THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW SOLID
- 3 THERMOPLASTIC PAVEMENT MARKING - LINE 4" DOUBLE YELLOW, 2 @ 11" C-C W/ 2 AMBER 2-WAY RPM'S, 80' C-C
- 4 THERMOPLASTIC PAVEMENT MARKING - LINE 5" WHITE SKIP DASH 10' DASH, 30' SKIP W/2 CRYSTAL/OPAQUE RPM, 80' C-C
- 5 THERMOPLASTIC PAVEMENT MARKING - LINE 6" WHITE
- 6 THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE @ 45 DEGREE, 500' C-C
- 7 THERMOPLASTIC PAVEMENT MARKING - LINE 12" YELLOW @ 45 DEGREE, 500' C-C
- 8 THERMOPLASTIC PAVEMENT MARKING - LINE 24" WHITE
- 9 THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS



AT THE APPROACHES TO THE INTERSECTION, CONTRACTOR MAY ENCOUNTER MORE THAN HMA THICKNESS OVER THE PCC PAVEMENT SHOWN ON THE TYPICAL SECTIONS. PLAN QUANTITIES WERE INCREASED BY 1,000 TONS OF POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80 FOR THIS CORRECTION.

HOT-MIX ASPHALT SURFACE REMOVAL BUTT JOINT

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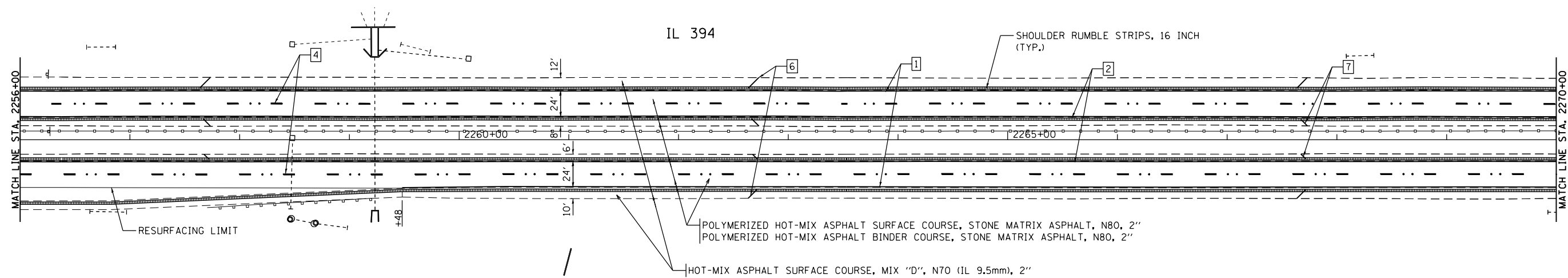
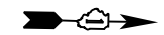
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DRAWN - EF	REVISIONS -	
CHECKED - RS	REVISIONS -	
DATE - 12-20-2012	REVISIONS -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 394 STEGER ROAD TO S. OF ELMSCOURT LANE
ROADWAY AND PAVEMENT MARKING PLANS**

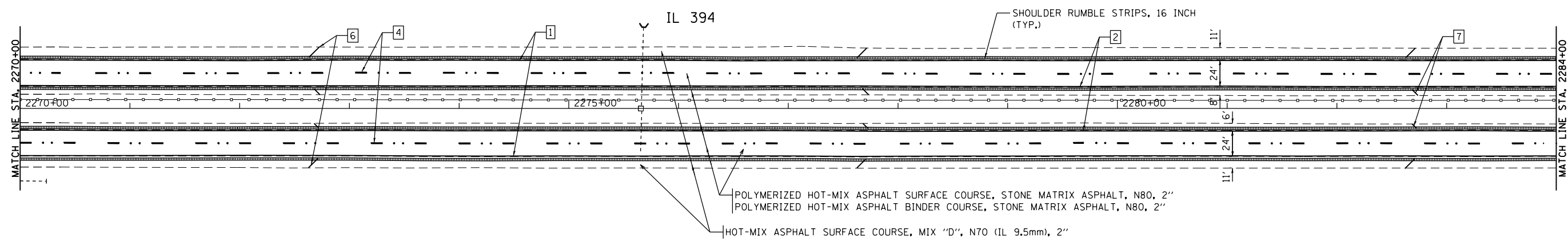
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	10A-RS-2	WILL	28	15
CONTRACT NO. 60N63				
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING LEGEND

- | | | |
|---|---|--|
| <p>1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE SOLID</p> <p>2 THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW SOLID</p> <p>3 THERMOPLASTIC PAVEMENT MARKING - LINE 4" DOUBLE YELLOW, 2 @ 11" C-C W/ 2 AMBER 2-WAY RPM'S, 80' C-C</p> | <p>4 THERMOPLASTIC PAVEMENT MARKING - LINE 5" WHITE SKIP DASH 10' DASH, 30' SKIP W/2 CRYSTAL/OPAQUE RPM, 80' C-C</p> <p>5 THERMOPLASTIC PAVEMENT MARKING - LINE 6" WHITE</p> <p>6 THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE @ 45 DEGREE, 500' C-C</p> | <p>7 THERMOPLASTIC PAVEMENT MARKING - LINE 12" YELLOW @ 45 DEGREE, 500' C-C</p> <p>8 THERMOPLASTIC PAVEMENT MARKING - LINE 24" WHITE</p> <p>9 THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS</p> |
|---|---|--|



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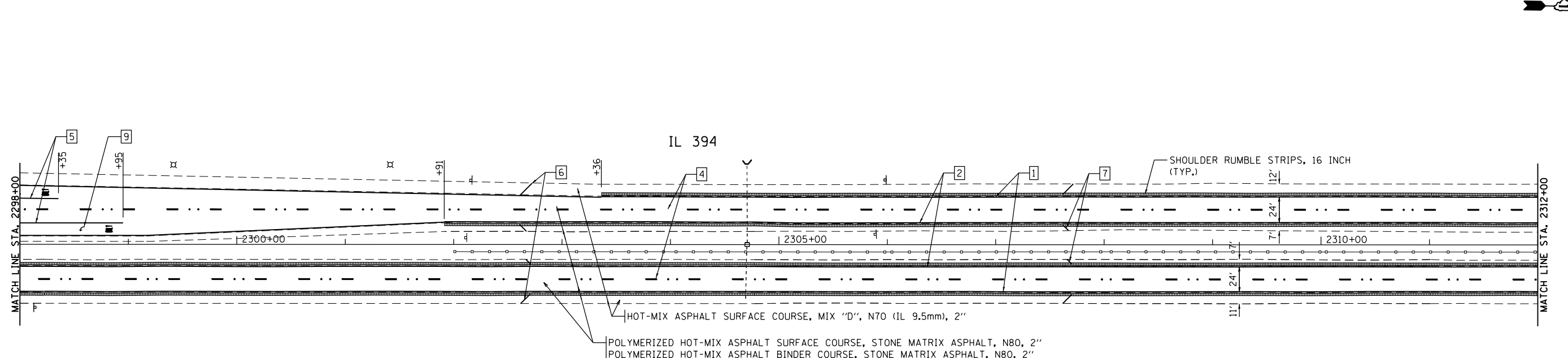
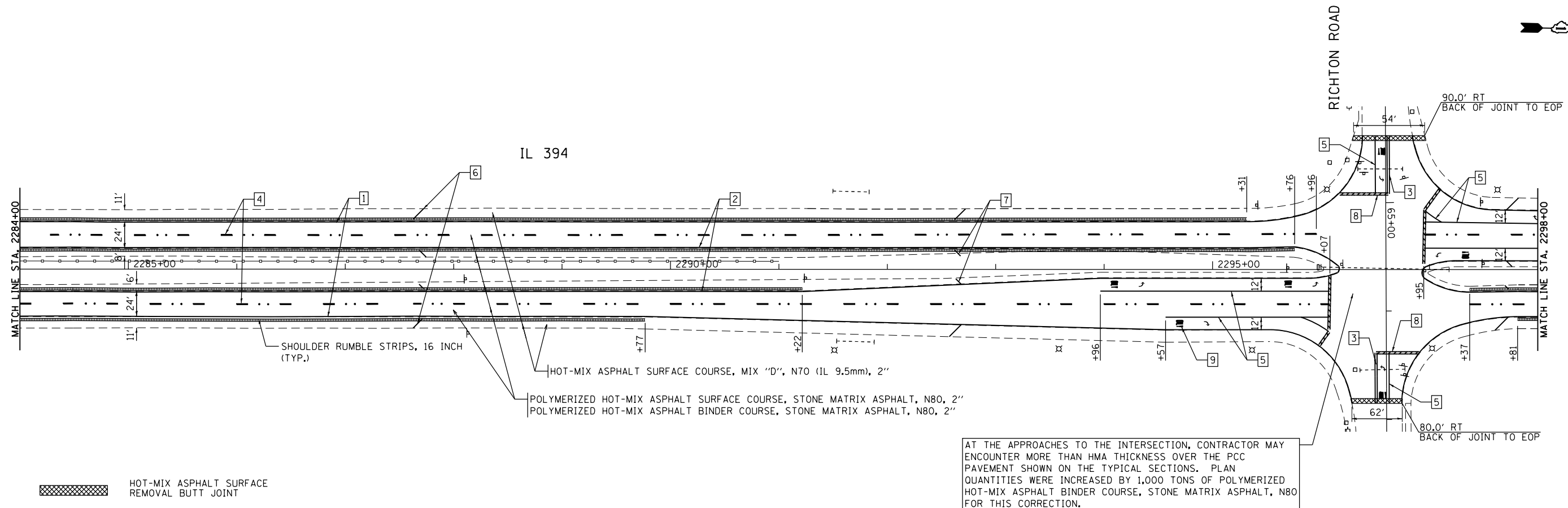
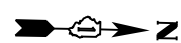
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PLOT DATE = 12/10/2012		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 394 STEGER ROAD TO S. OF ELMSCOURT LANE
ROADWAY AND PAVEMENT MARKING PLANS

SCALE: 1"=50' SHEET 10 OF 12 SHEETS STA. 2256+00 TO STA. 2284+00

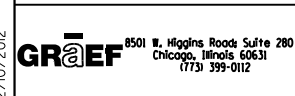
F.A.P. RTE. 332	SECTION 10A-RS-2	COUNTY WILL	TOTAL SHEETS 28	SHEET NO. 16
CONTRACT NO. 60N63			ILLINOIS FED. AID PROJECT	



PAVEMENT MARKING LEGEND

- | | | | | | |
|---|---|---|---|---|--|
| 1 | THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE SOLID | 4 | THERMOPLASTIC PAVEMENT MARKING - LINE 5" WHITE SKIP DASH 10' DASH, 30' SKIP W/2 CRYSTAL/OPAQUE RPM, 80' C-C | 7 | THERMOPLASTIC PAVEMENT MARKING - LINE 12" YELLOW @ 45 DEGREE, 500' C-C |
| 2 | THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW SOLID | 5 | THERMOPLASTIC PAVEMENT MARKING - LINE 6" WHITE | 8 | THERMOPLASTIC PAVEMENT MARKING - LINE 24" WHITE |
| 3 | THERMOPLASTIC PAVEMENT MARKING - LINE 4" DOUBLE YELLOW, 2 @ 11" C-C W/ 2 AMBER 2-WAY RPM'S, 80' C-C | 6 | THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE @ 45 DEGREE, 500' C-C | 9 | THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS |

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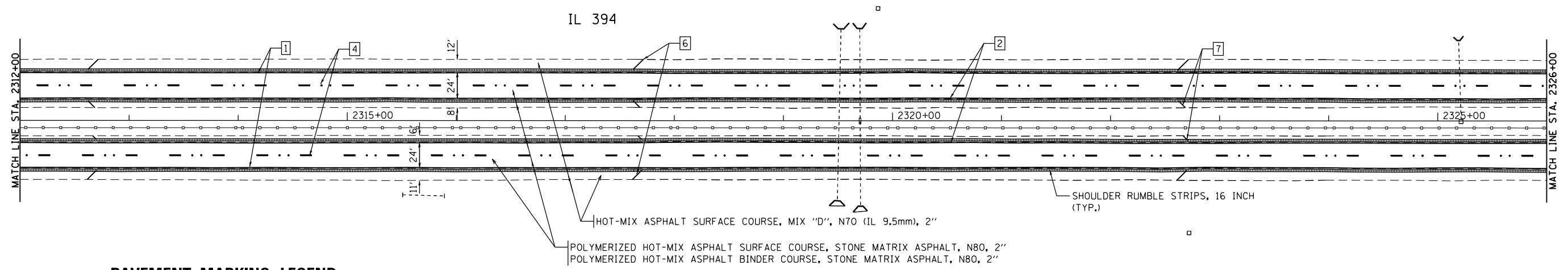
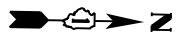
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DRAWN - EF	REVISIONS -	
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PLOT DATE = 12/10/2012	DATE - 12-20-2012	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 394 STEGER ROAD TO S. OF ELMSCOURT LANE
ROADWAY AND PAVEMENT MARKING PLANS**

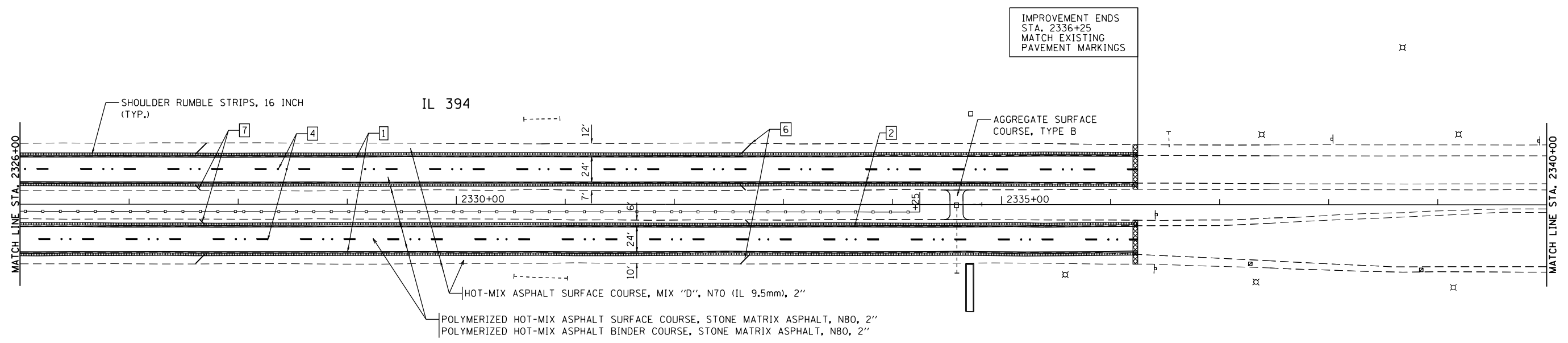
SCALE: 1"=50' SHEET 11 OF 12 SHEETS STA. 2284+00 TO STA. 2312+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	10A-RS-2	WILL	28	17
CONTRACT NO. 60N63				
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING LEGEND

- 1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE SOLID
- 2 THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW SOLID
- 3 THERMOPLASTIC PAVEMENT MARKING - LINE 4" DOUBLE YELLOW, 2 @ 11" C-C W/ 2 AMBER 2-WAY RPM'S, 80' C-C
- 4 THERMOPLASTIC PAVEMENT MARKING - LINE 5" WHITE SKIP DASH 10' DASH, 30' SKIP W/2 CRYSTAL/OPAQUE RPM, 80' C-C
- 5 THERMOPLASTIC PAVEMENT MARKING - LINE 6" WHITE
- 6 THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE @ 45 DEGREE, 500' C-C
- 7 THERMOPLASTIC PAVEMENT MARKING - LINE 12" YELLOW @ 45 DEGREE, 500' C-C
- 8 THERMOPLASTIC PAVEMENT MARKING - LINE 24" WHITE
- 9 THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS

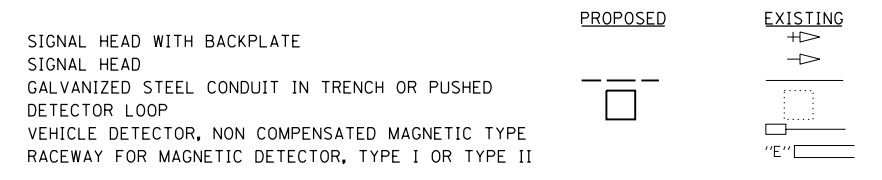


HOT-MIX ASPHALT SURFACE REMOVAL BUTT JOINT

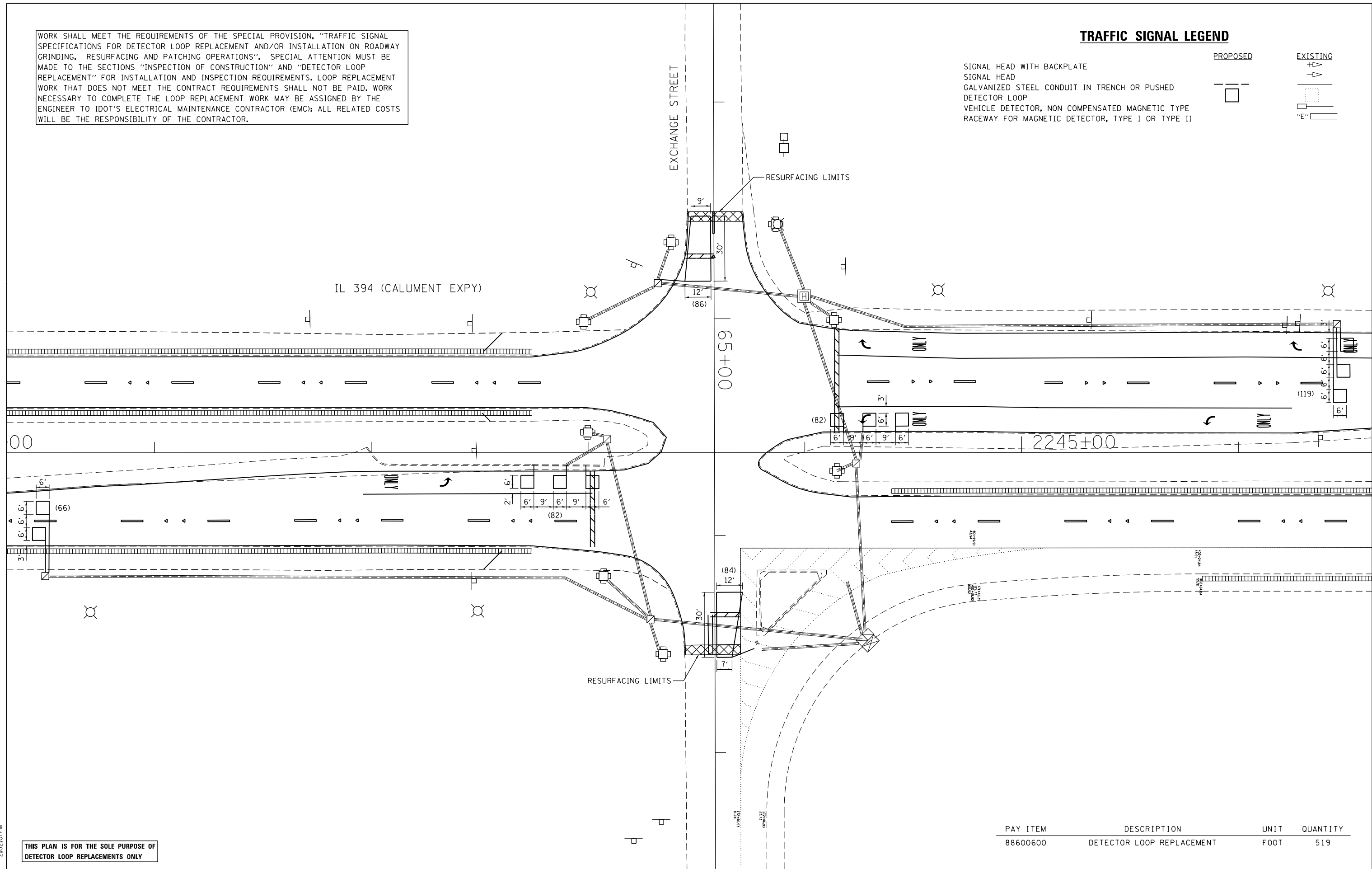
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	USER NAME = 1485	DESIGNED - EF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 394 STEGER ROAD TO S. OF ELMSCOURT LANE ROADWAY AND PAVEMENT MARKING PLANS	F.A.P. RTE. 332	SECTION 10A-RS-2	COUNTY WILL	TOTAL SHEETS 28	SHEET NO. 18
	PLOT SCALE = 100.0017' / in.	CHECKED - RS	REVISIED -			SCALE: 1"=50'	SHEET 12 OF 12 SHEETS	STA. 2312+00 TO 2340+00	CONTRACT NO. 60N63	
	PLOT DATE = 12/10/2012	DATE - 12-20-2012	REVISED -							

TRAFFIC SIGNAL LEGEND



WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "TRAFFIC SIGNAL SPECIFICATIONS FOR DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION ON ROADWAY GRINDING, RESURFACING AND PATCHING OPERATIONS". SPECIAL ATTENTION MUST BE MADE TO THE SECTIONS "INSPECTION OF CONSTRUCTION" AND "DETECTOR LOOP REPLACEMENT" FOR INSTALLATION AND INSPECTION REQUIREMENTS. LOOP REPLACEMENT WORK THAT DOES NOT MEET THE CONTRACT REQUIREMENTS SHALL NOT BE PAID. WORK NECESSARY TO COMPLETE THE LOOP REPLACEMENT WORK MAY BE ASSIGNED BY THE ENGINEER TO IDOT'S ELECTRICAL MAINTENANCE CONTRACTOR (EMC); ALL RELATED COSTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.



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

PAY ITEM	DESCRIPTION	UNIT	QUANTITY
88600600	DETECTOR LOOP REPLACEMENT	FOOT	519

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GR&EF 8501 N. Higgins Road Suite 280
Chicago, Illinois 60631
(773) 399-0112

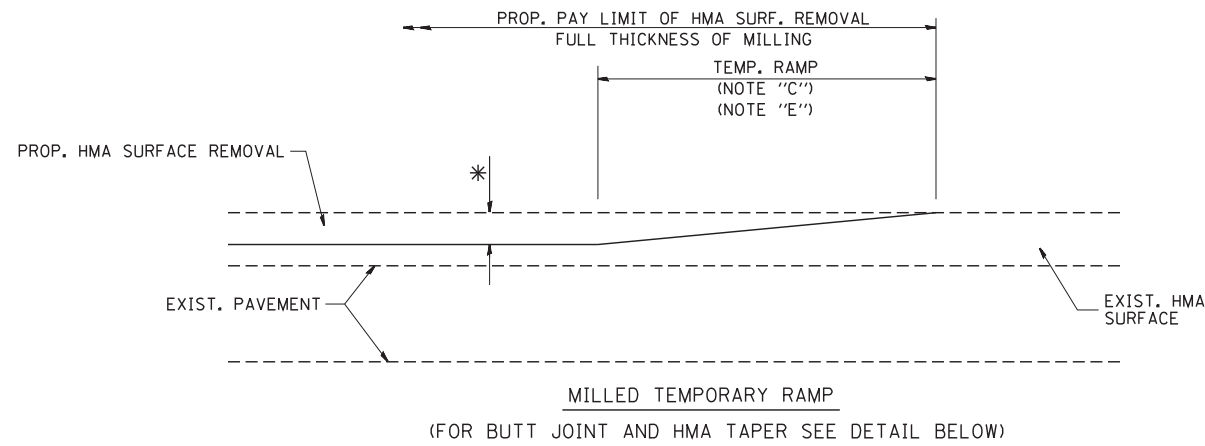
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DRAWN - EF	REVISIONS -	
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PLOT DATE = 12/10/2012	DATE - 12-20-2012	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

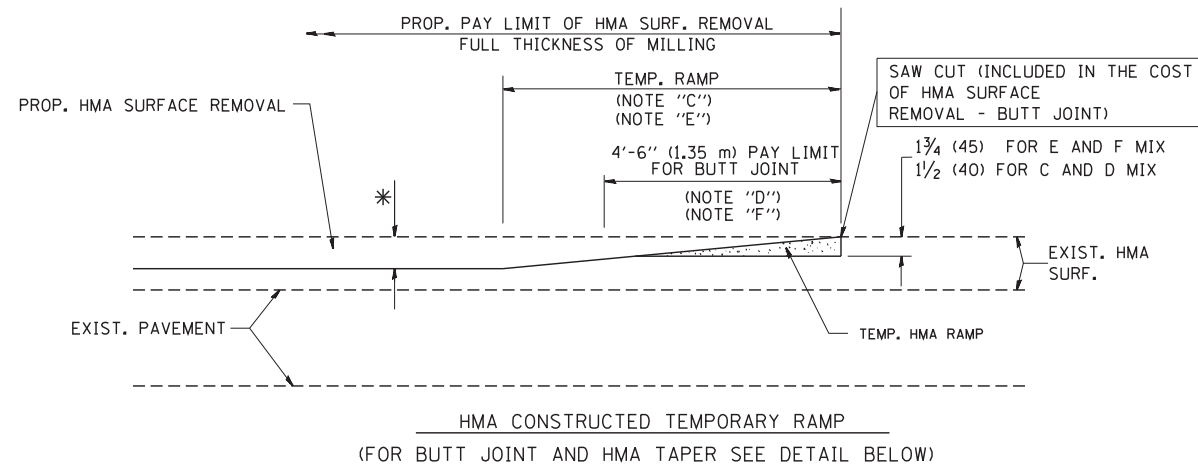
**IL 394 STEGER ROAD TO S. OF ELMSCOURT LANE
TRAFFIC SIGNAL DETECTOR LOOP REPLACEMENT**

SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	10A-RS-2	WILL	28	19
CONTRACT NO. 60N63				
ILLINOIS FED. AID PROJECT				

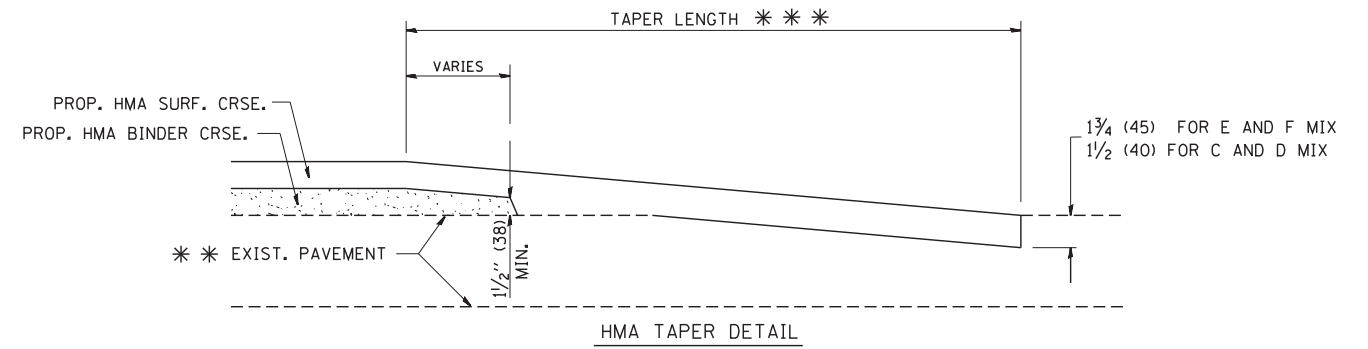
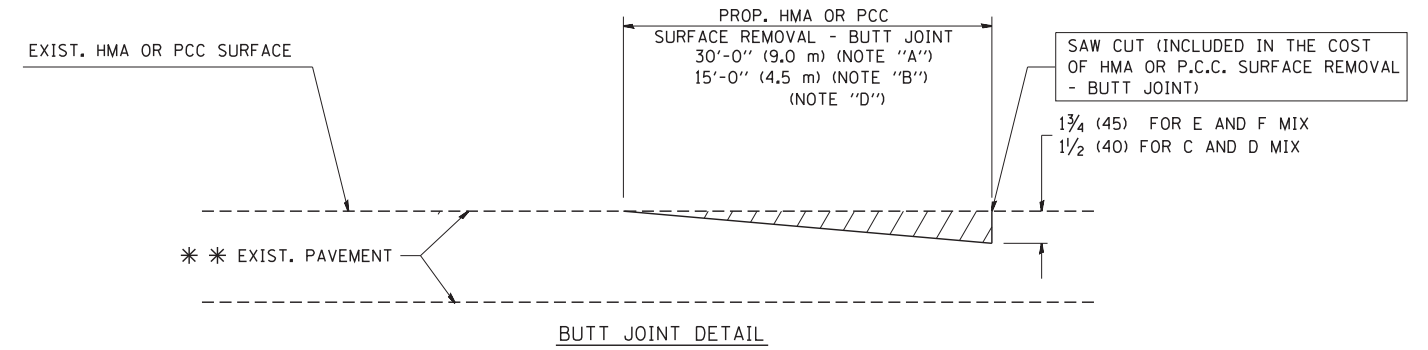


OPTION 1



OPTION 2

TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

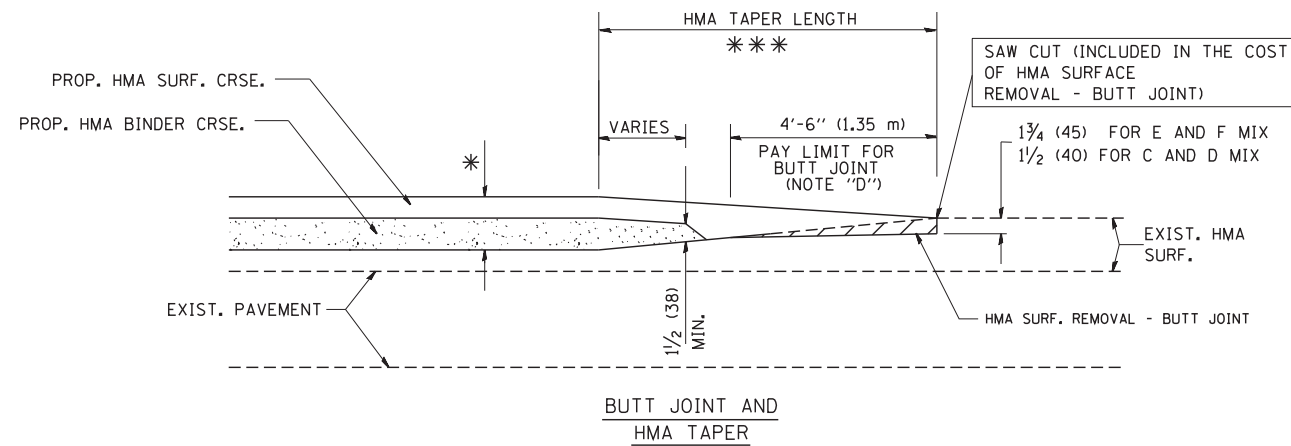
NOTES

- 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.



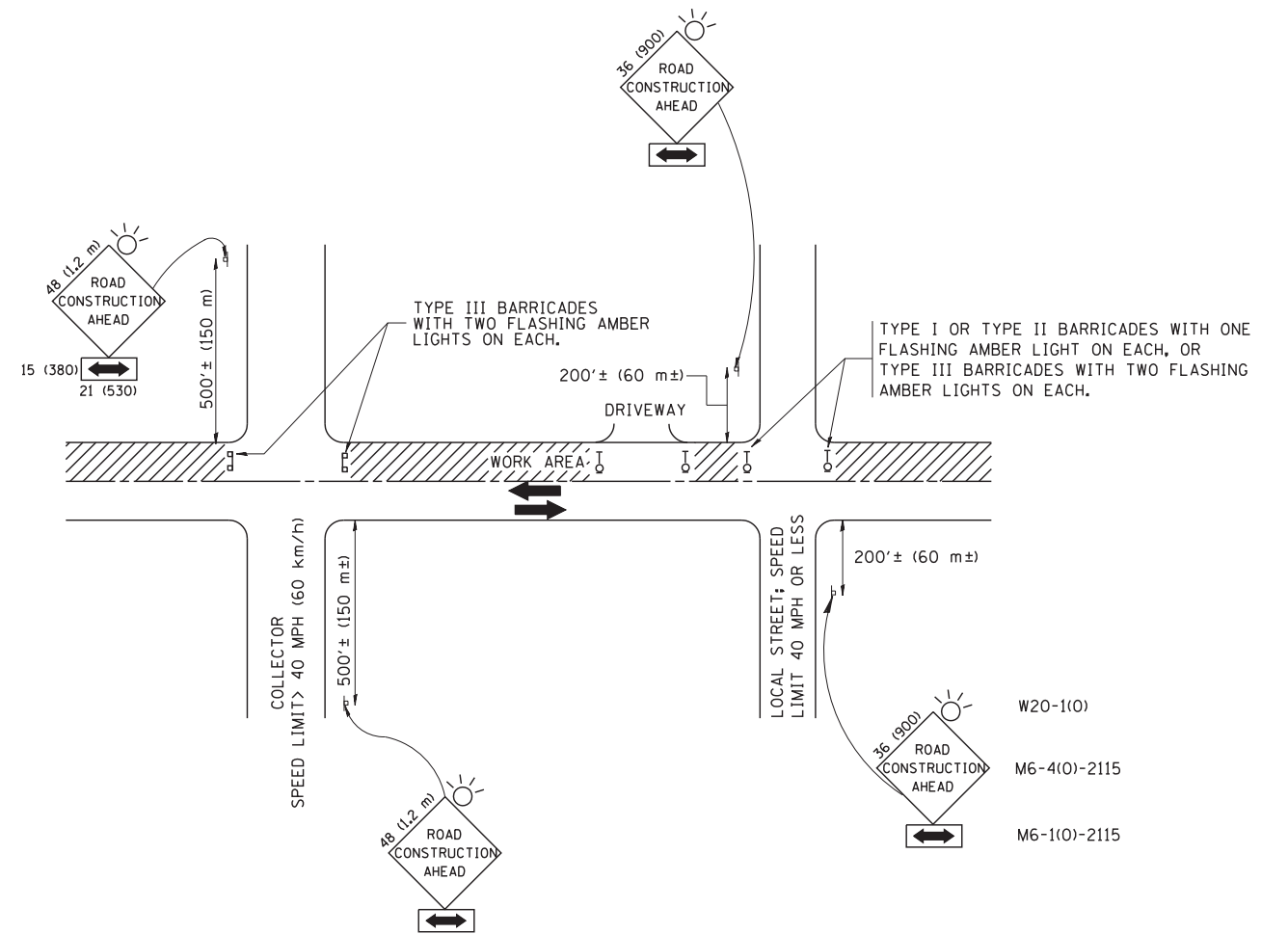
TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

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.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	10A-RS-2	WILL	28	21
BD400-05 BD32		CONTRACT NO. 60N63		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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.

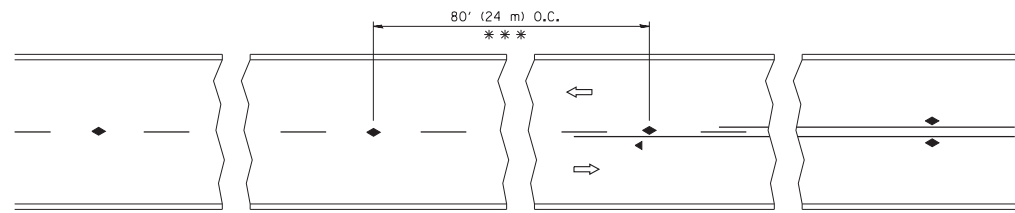
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		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

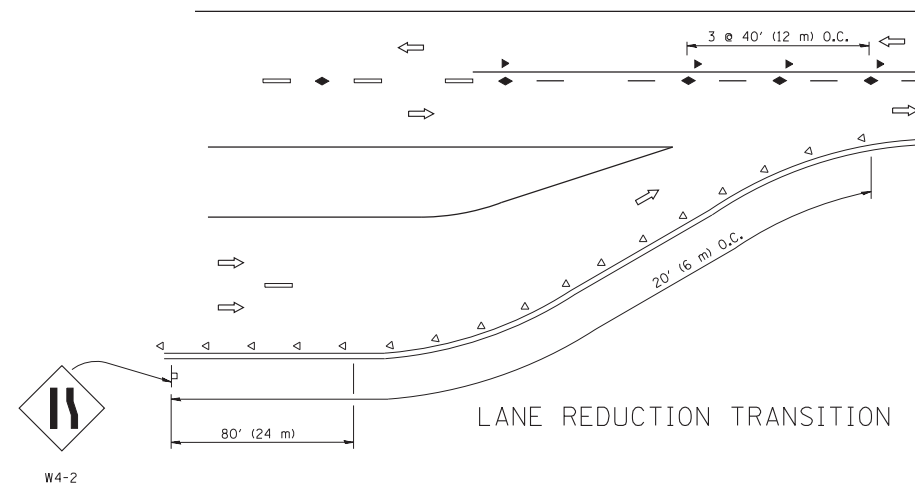
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-10			CONTRACT NO. 60N63	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

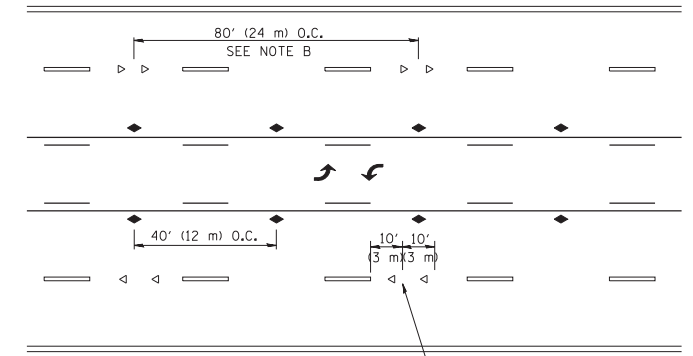


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

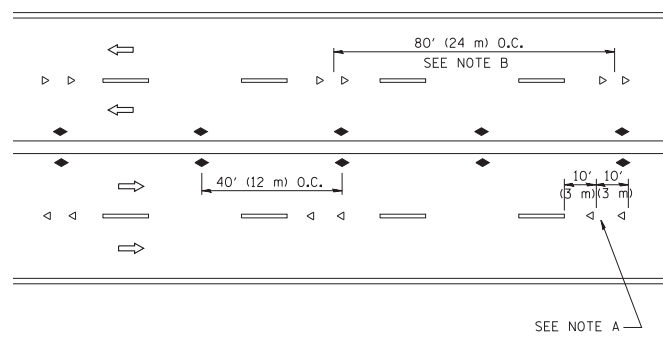
TWO-LANE/TWO-WAY



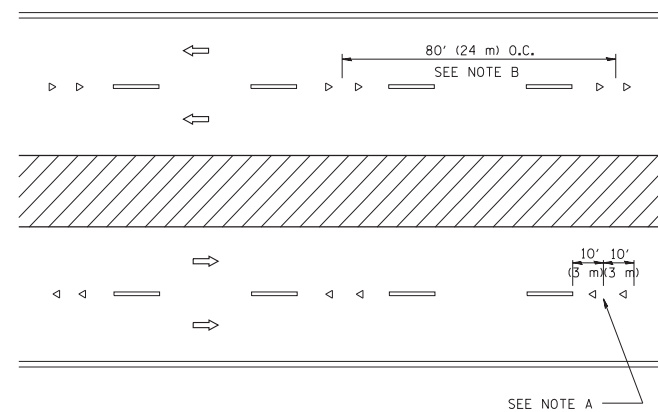
LANE REDUCTION TRANSITION



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

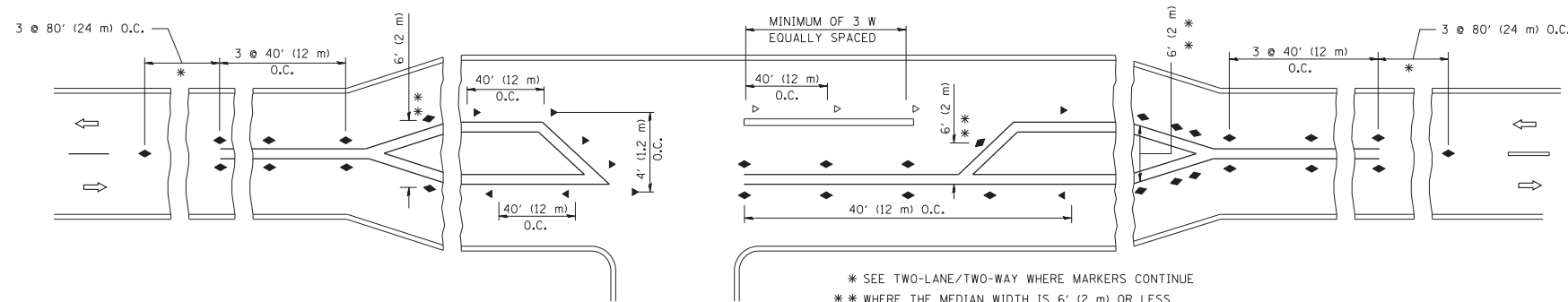
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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 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.



LEFT TURN

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

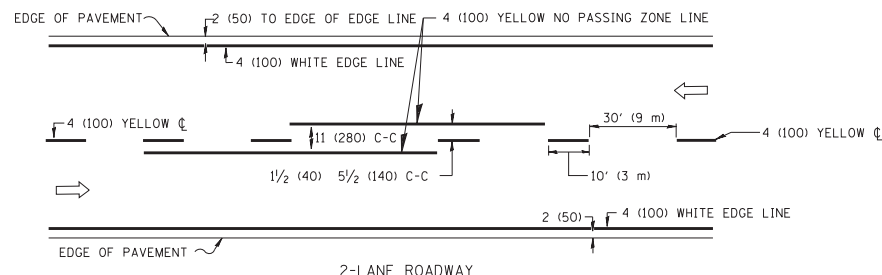
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

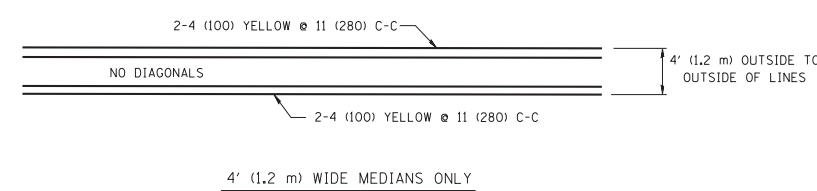
TYPICAL APPLICATIONS
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

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

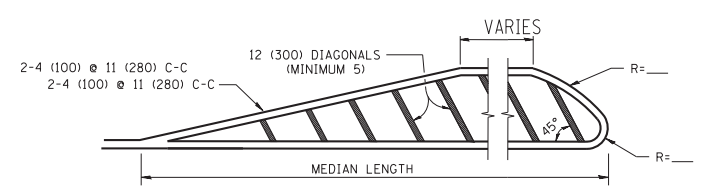
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	10A-RS-2	WILL	28	23
TC-11		CONTRACT NO. 60N63		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY



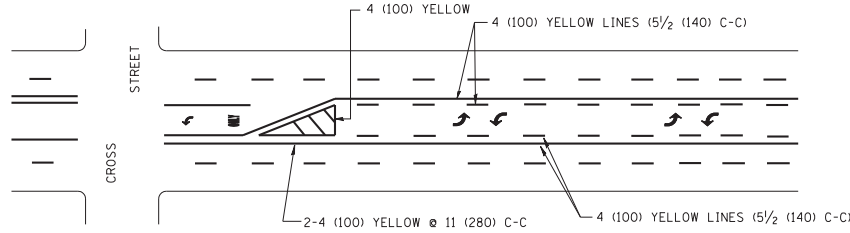
4' (1.2 m) WIDE MEDIANS ONLY



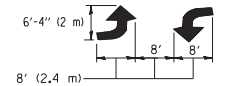
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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

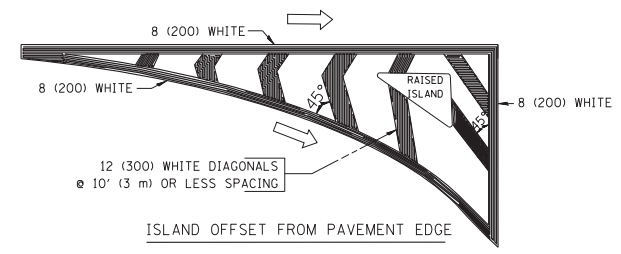


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.

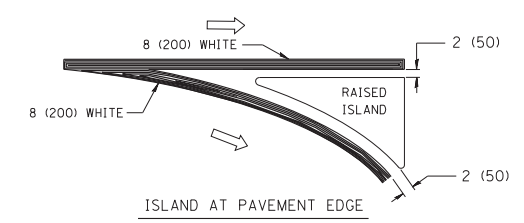


MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

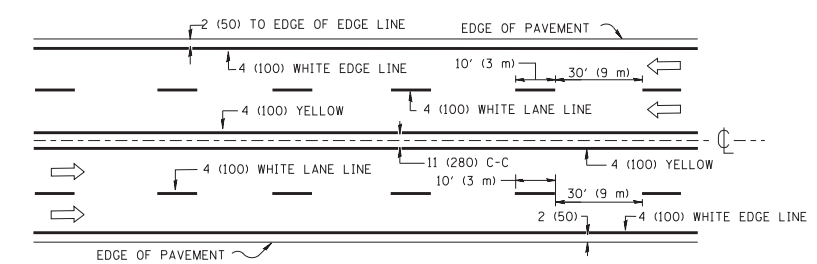


ISLAND OFFSET FROM PAVEMENT EDGE

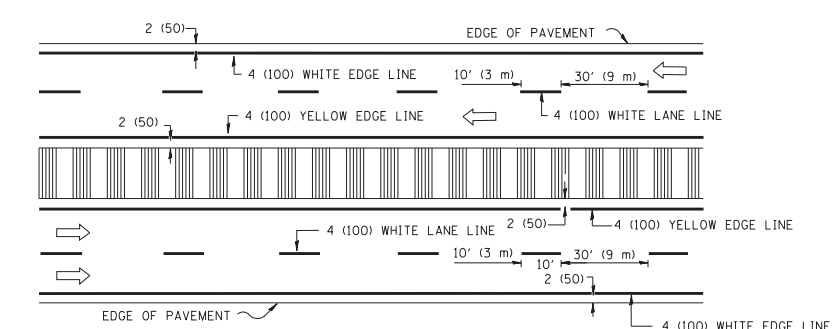


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING



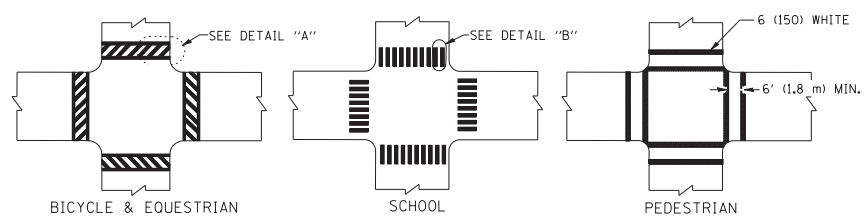
MULTI-LANE UNDIVIDED



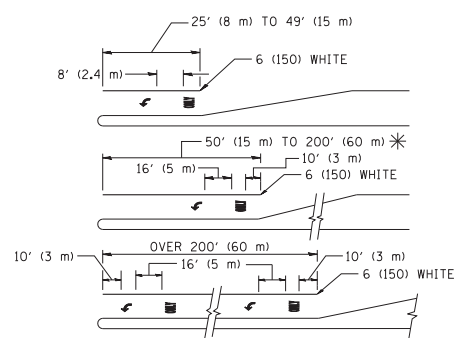
MULTI-LANE DIVIDED WITH MOUNTABLE MEDIAN

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

TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING



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".

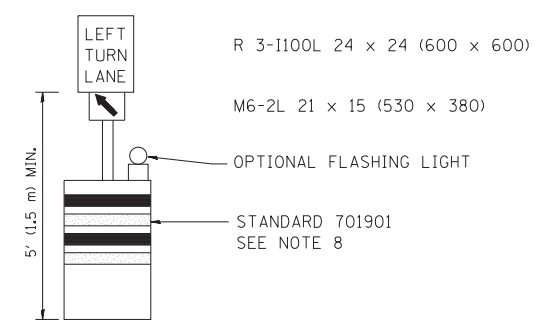
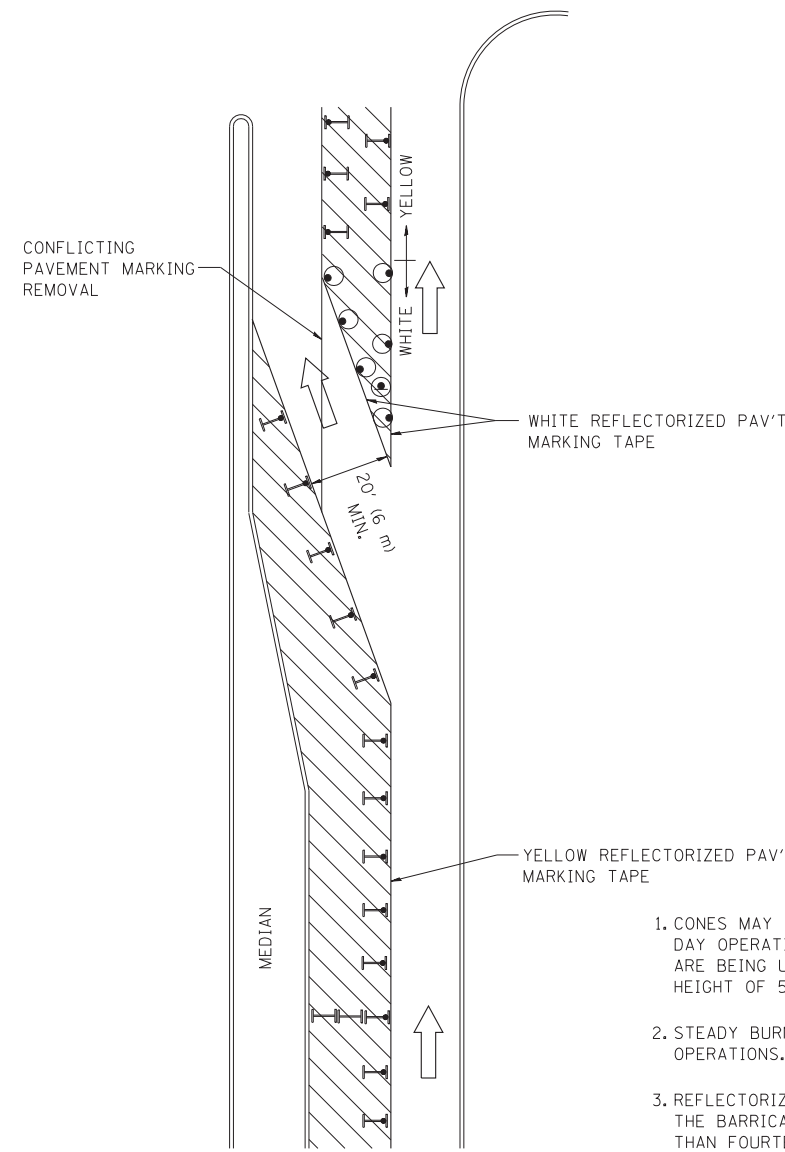
TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

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	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	8' (2.4m) LEFT ARROW	IN PAIRS	WHITE	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°	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" 15' (4.5 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

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

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









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 NCHRP 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

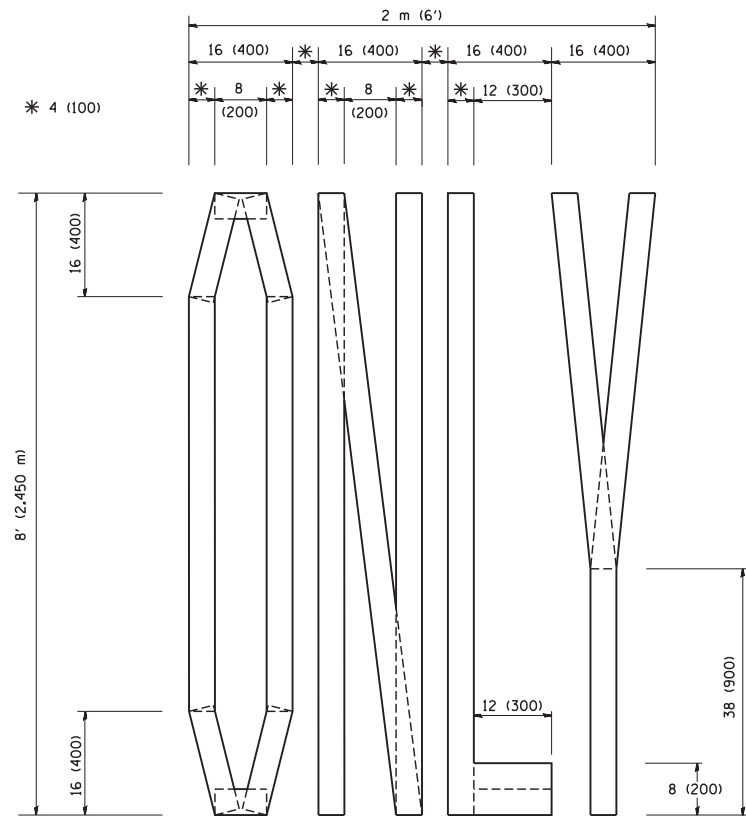
-  WORK AREA
-  LANE OPEN TO TRAFFIC
-  TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
-  DRUM WITH STEADY BURN LIGHT
-  DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
-  TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

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

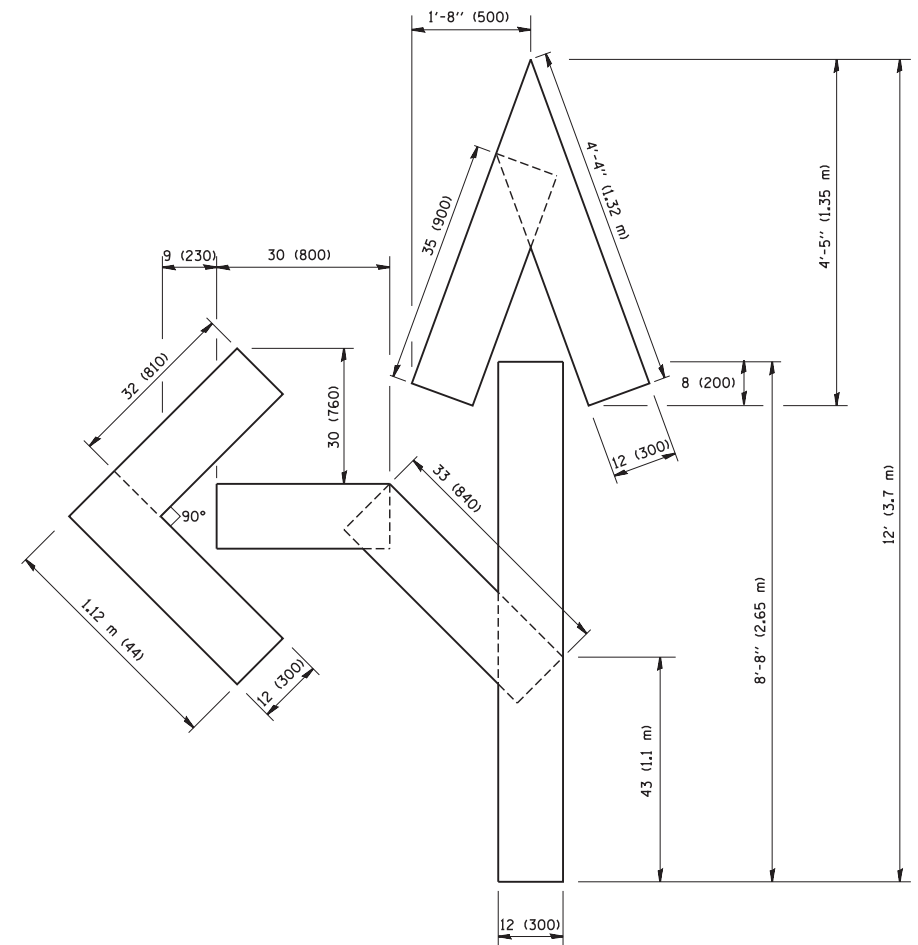
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

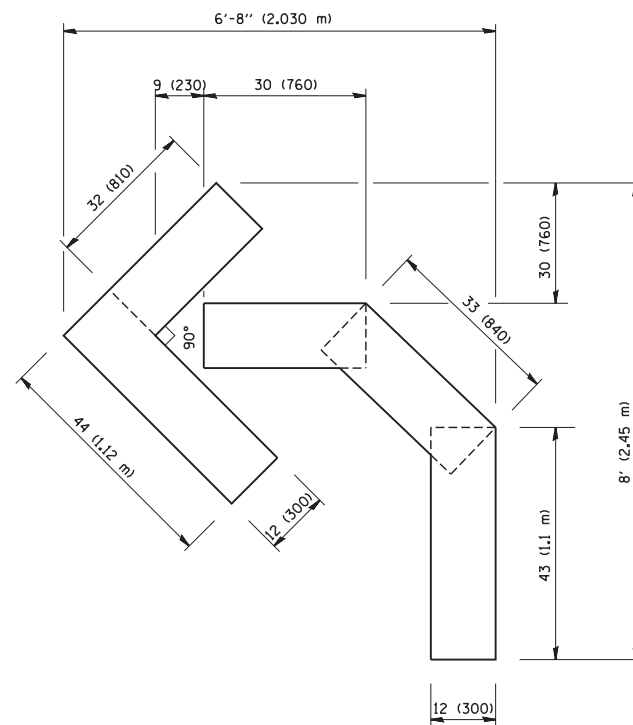
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	10A-RS-2	WILL	28	25
TC-14		CONTRACT NO. 60N63		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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.

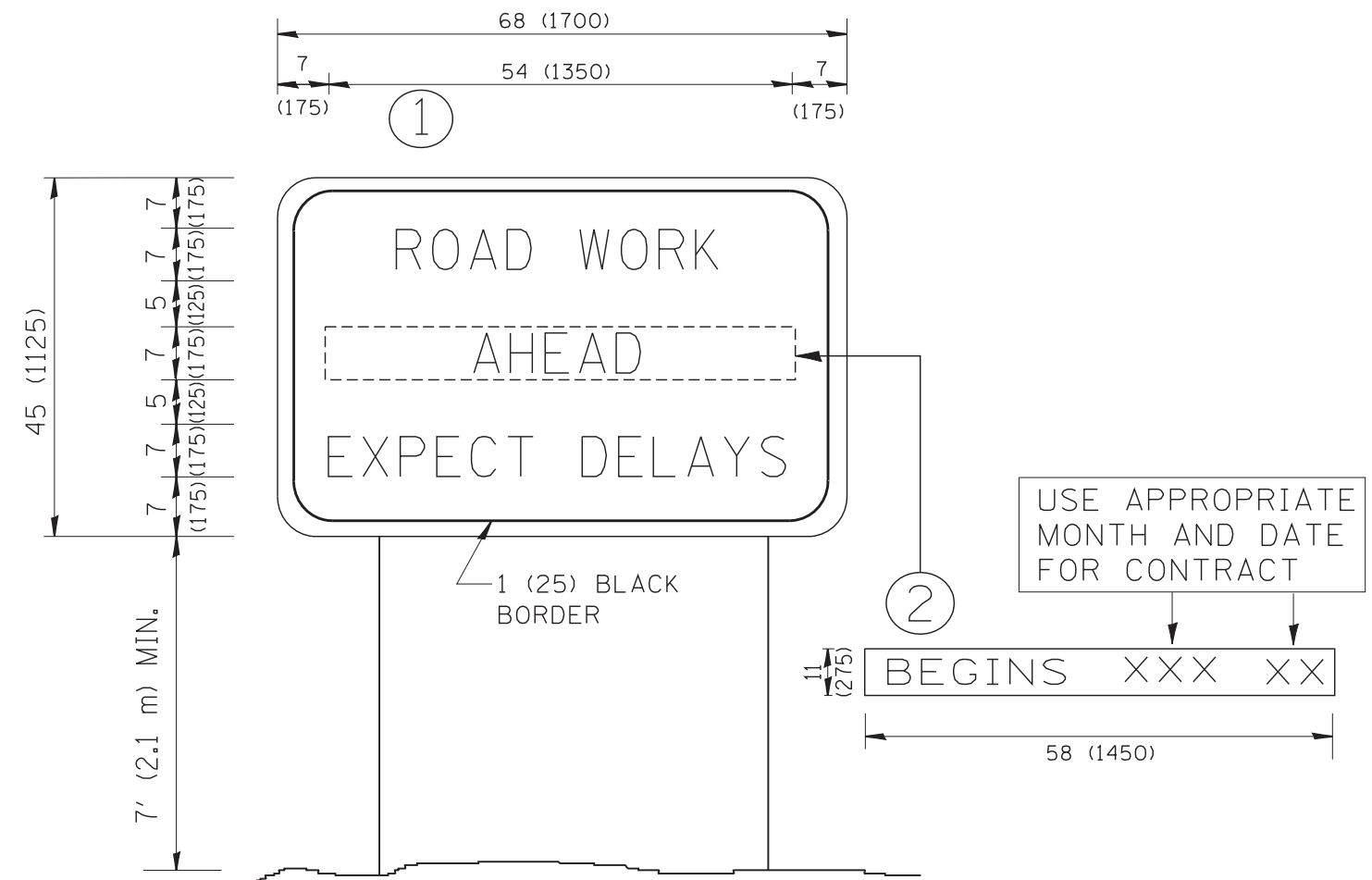
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	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -T. RAMMACHER 03-02-98
	PLOT DATE = 1/4/2008	DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00

**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.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	10A-RS-2	WILL	28	26
TC-16			CONTRACT NO. 60N63	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

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

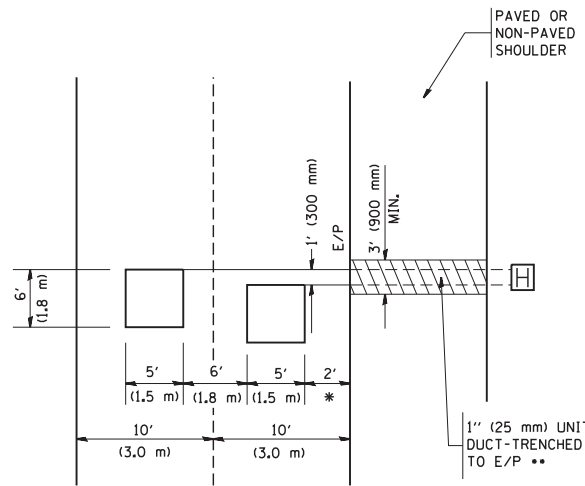
**ARTERIAL ROAD
INFORMATION SIGN**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	10A-RS-2	WILL	28	27
TC-22		CONTRACT NO. 60N63		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

LOOPS NEXT TO SHOULDERS

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



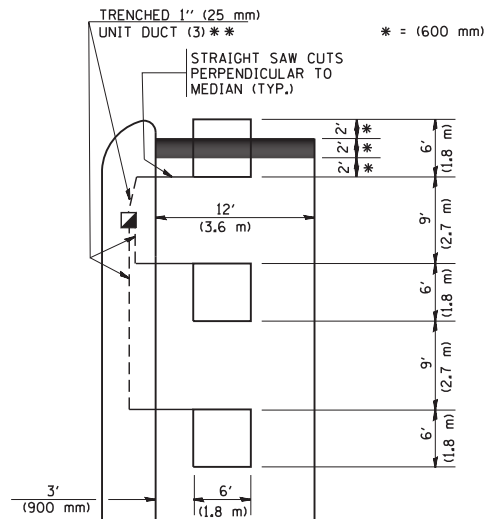
* = (600 mm)

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

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

(PROTECTED / PERMITTED LEFT TURN PHASING)

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

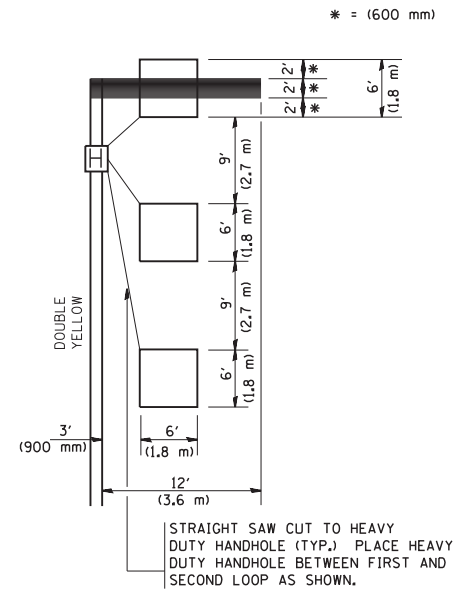


** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

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

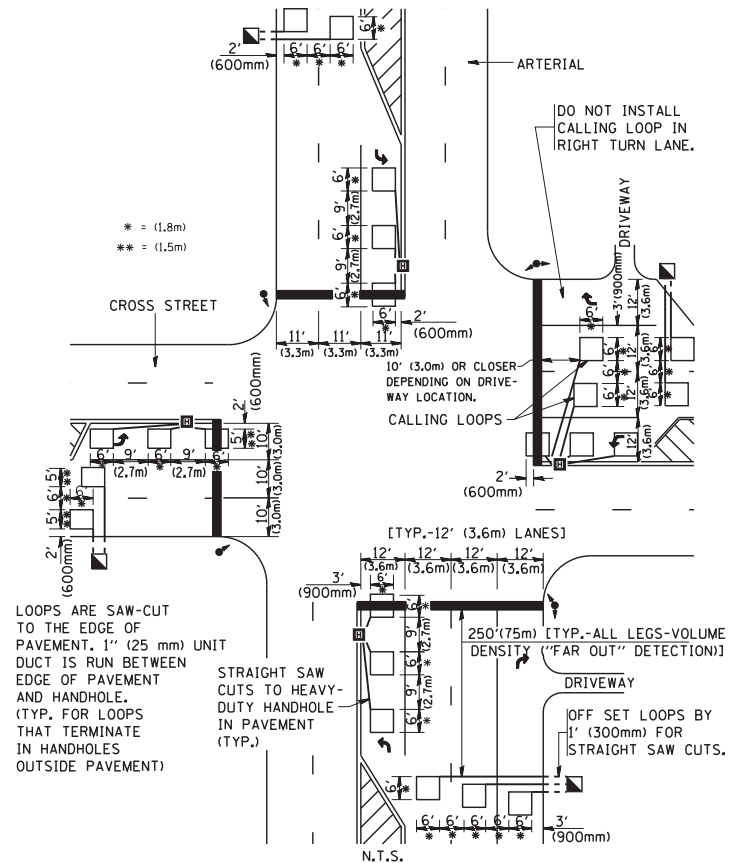
LEFT TURN LANES WITHOUT MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH

(PROTECTED / PERMITTED LEFT TURN PHASING)



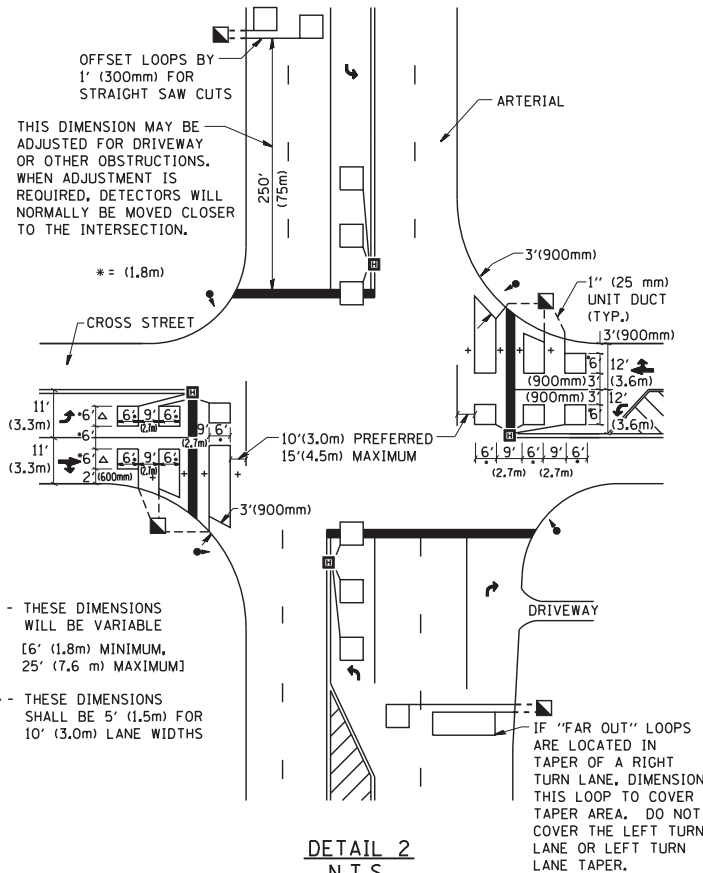
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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 SEPARATELY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- * ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- * EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- * WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
- * WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

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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PLOT DATE = 1/4/2008

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CHECKED - R.K.F.
DATE -

REVISED -
REVISED -
REVISED -
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.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	10A-RS-2	WILL	28	28
TS-07		CONTRACT NO. 60N63		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				