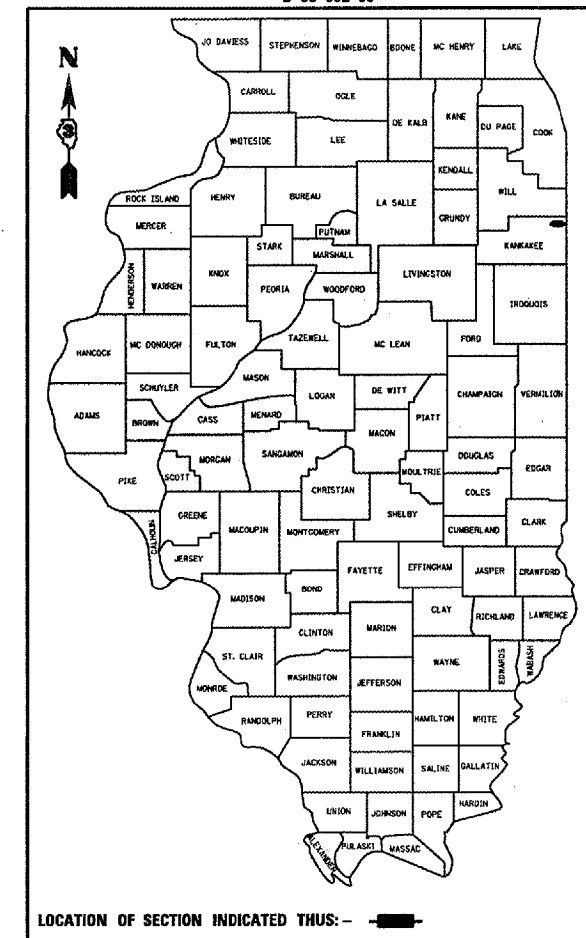


RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(7R-1,10)	KANKAKEE	11	1
STA. 248+00		TO STA. 259+00		
ILLINOIS				
*FAP 332 & FAS 310 (IL 1 & IL 17)				

D-93-002-06



LOCATION OF SECTION INDICATED THUS: —■—

**FUNCTIONAL CLASSIFICATION**

RURAL: OTHER PRINCIPAL ARTERIAL  
 IL ROUTE 1 & 17  
 2005 ADT = 4825  
 P.V = 66.9% M.U. = 28.4% S.U. = 4.5%

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

SUBMITTED 5/14/06  
*James L. Alon*  
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

June 30, 2006  
*Mike Hene*  
 ENGINEER OF DESIGN AND ENVIRONMENT

June 30, 2006  
*Milton R. Sees, P.E.*  
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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 OF THE STATE OF ILLINOIS**

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

**PROPOSED  
 HIGHWAY PLANS**

FAP ROUTE 332 (IL ROUTE 1 / 17)  
 SECTION (7R-1,10)

KANKAKEE COUNTY  
 C-93-076-06  
 PAVEMENT PATCHING & WIDENING

**INDEX OF SHEETS**

1. COVER SHEET
2. GENERAL NOTES
3. SUMMARY OF QUANTITIES
4. TYPICAL SECTIONS IL ROUTE 1/17
5. TYPICAL SECTIONS IL ROUTE 1 (NORTH) & IL ROUTE 17 (SOUTH)
6. SCHEDULES - PAVEMENT PATCHING
7. PAVEMENT WIDENING DETAILS
8. PAVEMENT WIDENING DETAILS
9. IL1/17 INTERSECTION
10. PAVEMENT WIDENING DETAILS
11. TYPICAL PAVEMENT MARKINGS

**STANDARDS**

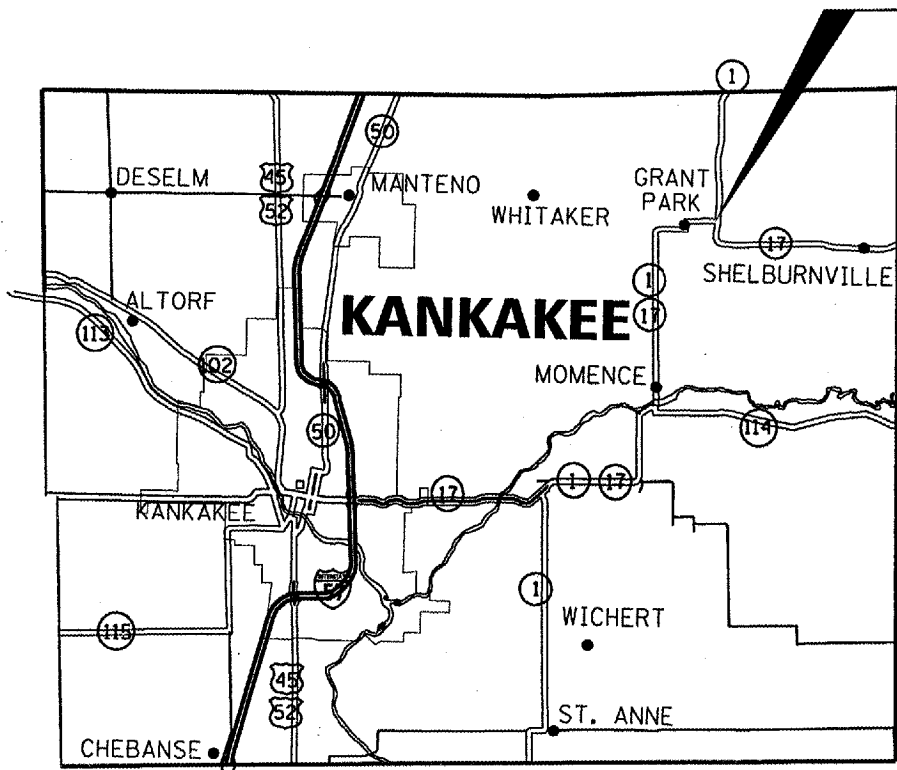
- 000001-04 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 202001 EARTH MEDIAN DITCH CHECK
- 280001-02 TEMPORARY EROSION CONTROL SYSTEMS
- 285001-01 FABRIC FORMED CONCRETE REVETMENT MATS
- 420001-06 PAVEMENT JOINTS
- 420701-01 PAVEMENT FABRIC
- 442101-05 CLASS B PATCHES
- 482011-01 BIT. SHOULDER STRIPS/SHOULDERS WITH RS OR WIDENING & RS PROJECTS
- 606001-02 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- 701001-01 OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 4.5 m (15') AWAY
- 701006-02 OFF-ROAD OPERATIONS 2L, 2W, 4.5 m (15') TO 600 mm (24") FROM PAVEMENT EDGE
- 701301-02 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701311-02 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
- 701326-02 LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH
- 701336-04 LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES, FOR SPEEDS ≥ 45 MPH
- 701201-02 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH

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

DISTRICT 3 NO. 1-815-434-6131  
 PROJECT ENGINEER: JOE KANNEL 1-815-434-8420  
 UNIT CHIEF: RON WOODSHANK 1-815-434-8419

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

CONTRACT NO. 66656



**LOCATION MAP**  
 NOT TO SCALE

GROSS LENGTH OF PROJECT = 1100 FEET 0.21 MI  
 NET LENGTH OF PROJECT = 1100 FEET 0.21 MI

**PROJECT LOCATION**  
 APPROXIMATELY 500' (STA. 248+00)  
 NORTH TO APPROXIMATELY 500'  
 SOUTH (STA. 259+00) OF THE  
 INTERSECTION IL ROUTE 1 &  
 IL ROUTE 17

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(7R-1,10)I	KANKAKEE	11	2
STA. 248+00		TO STA. 259+00		
ILLINOIS				
*FAP 332 & FAS 310 (IL 1 & IL 17)				

**GENERAL NOTES**

PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD AND TO MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT BID FOR THE WORK.

WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL MONUMENTS UNTIL AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR REESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS.

THE THICKNESS OF BITUMINOUS MIXTURES 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 BITUMINOUS MIXTURE IS PLACED.

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

EXISTING REINFORCEMENT BARS EXTENDING INTO REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING CONCRETE REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.

SEEDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.

THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES IN AREAS TO BE SEEDED OR SODDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF FURNISHED EXCAVATION.

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

ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.

ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

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 INCLUDED IN THESE PLANS.

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

GRANULAR MATERIALS	2.05	TONS / CU YD
BITUMINOUS MAT PRIME COAT	0.08	GAL / SQ YD OR
BITUMINOUS RESURFACING	112	LBS / SQ YD / IN

THE EXISTING SHOULDERS ARE LOW. IN THE EVENT THAT CONSTRUCTION OPERATIONS RESULT IN A DROP OFF GREATER THAN 3" BETWEEN THE EDGE OF PAVEMENT OR EDGE OF SHOULDER WITHIN 3' OF THE EDGE OF PAVEMENT AND THE EARTH OR AGGREGATE SHOULDERS, THEN THE DROP OFF SHALL BE PROTECTED ACCORDING TO ARTICLE 701.04(B)(1) OF THE STANDARD SPECIFICATIONS. THIS WORK WILL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICES FOR TRAFFIC CONTROL.

	BITUMINOUS CONCRETE SURFACE CSE. SUPERPAVE	BITUMINOUS SHOULDERS SUPERPAVE
PG GRADE	PG64-22	PG64-22
MAX % RAP ALLOWABLE	10%	25%
DESIGN AIR VOIDS	4.0% @ N90	2.0% @ N30
MIXTURE COMPOSITION	IL12.5 or IL 9.5	BAM
FRICTION AGGREGATE	MIXTURE D	
PLANT CONTROL LIMITS	CLASS I	NON CLASS I
DENSITY CONTROL METHOD	CORES/NUCLEAR	SEE SPECIAL PROVISION

\*\*IF RAP OPTION IS SELECTED, THE ASPHALT CEMENT GRADE MAY NEED TO BE ADJUSTED. THIS WILL BE DETERMINED BY THE ENGINEER.

PREPARED BY: *Rid Paulm*  
DISTRICT STUDIES & PLANS ENGINEER

DATE: 5-16-06

EXAMINED BY: *Herb Jung*  
DISTRICT CONSTRUCTION ENGINEER

*Matt Jenkins*  
DISTRICT MATERIALS ENGINEER

*Bruce A. Huch*  
DISTRICT OPERATIONS ENGINEER

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**SUMMARY OF QUANTITIES**

FAP 332 & FAS 310  
SECTION (7R-1,10)I  
KANKAKEE COUNTY

Date: 4/21/2006  
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RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(7R-1,10)I	KANKAKEE	11	3
STA. 248+00		TO STA. 259+00		
ILLINOIS				
*FAP 332 & FAS 310 (IL 1 & IL 17)				

## SUMMARY OF QUANTITIES

CONSTRUCTION CODE: **I000-1A**

CODE NO.	ITEM	UNIT	RURAL
			100% STATE TOTAL QUANTITY
20200500	EARTH EXCAVATION (WIDENING)	CU YD	25
20400800	FURNISHED EXCAVATION	CU YD	7
31100300	SUB-BASE GRANULAR MATERIAL, TYPE A 4"	SQ YD	183
35400900	HIGH-EARLY-STRENGTH PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 9"	SQ YD	160
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	71
44000035	BITUMINOUS SURFACE REMOVAL	SQ YD	30
44000100	PAVEMENT REMOVAL	SQ YD	30
44000300	CURB REMOVAL	FOOT	90
44001430	BITUMINOUS SHOULDER REMOVAL	SQ YD	135
44200132	PAVEMENT PATCHING, TYPE II, 11 INCH	SQ YD	596
44200136	PAVEMENT PATCHING, TYPE III, 11 INCH	SQ YD	101
44200138	PAVEMENT PATCHING, TYPE IV, 11 INCH	SQ YD	34
44213100	PAVEMENT FABRIC	SQ YD	134
44213200	SAW CUTS	FOOT	3659
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	228
48202600	BITUMINOUS SHOULDERS SUPERPAVE 8"	SQ YD	72
67100100	MOBILIZATION	L SUM	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1
* 78005110	EPOXY PAVEMENT MARKING LINE - 4"	FOOT	100
* 78005140	EPOXY PAVEMENT MARKING LINE - 8"	FOOT	100
* 78005150	EPOXY PAVEMENT MARKING LINE - 12"	FOOT	100
X4066428	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N90	TON	18
Z0017202	DOWEL BARS 1 1/2"	EACH	1854

\* SPECIALTY ITEM

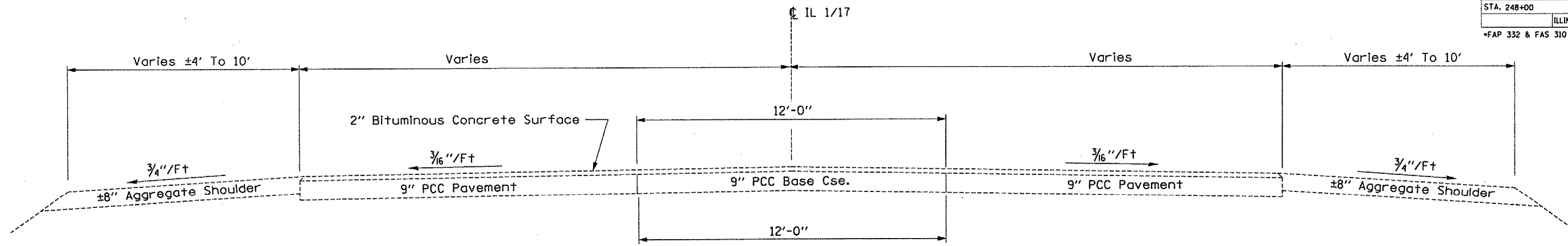
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

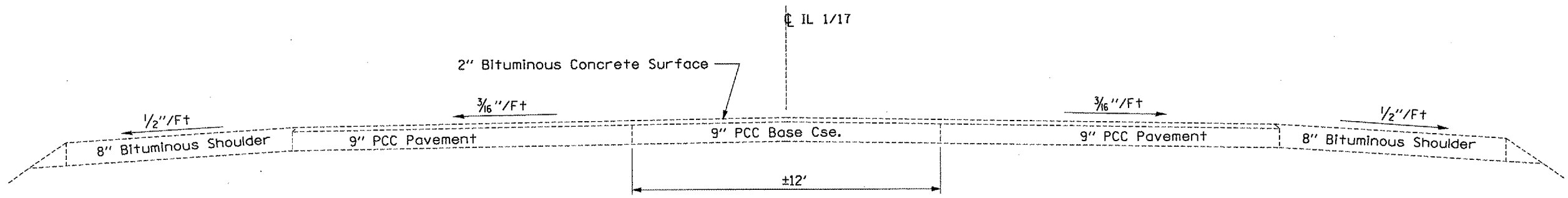
**SUMMARY OF QUANTITIES**  
**FAP 332 & FAS 310**  
**SECTION (7R-1,10)I**  
**KANKAKEE COUNTY**

Date: 4/21/2006  
cs/projects/cmain07/cm311/details.dgn

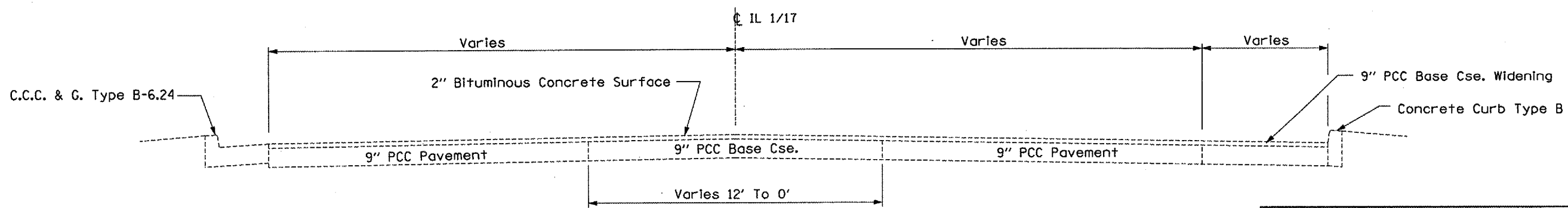
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7R-1,101		KANKAKEE	11	4
STA. 248+00		TO STA. 259+00		
ILLINOIS				
*FAP 332 & FAS 310 (IL 1 & IL 17)				



**TYPICAL SECTION 1**  
**STA. 348 + 00 TO STA. 349 + 29**



**TYPICAL SECTION 2**  
**STA. 349 + 29 TO STA. 349 + 81**



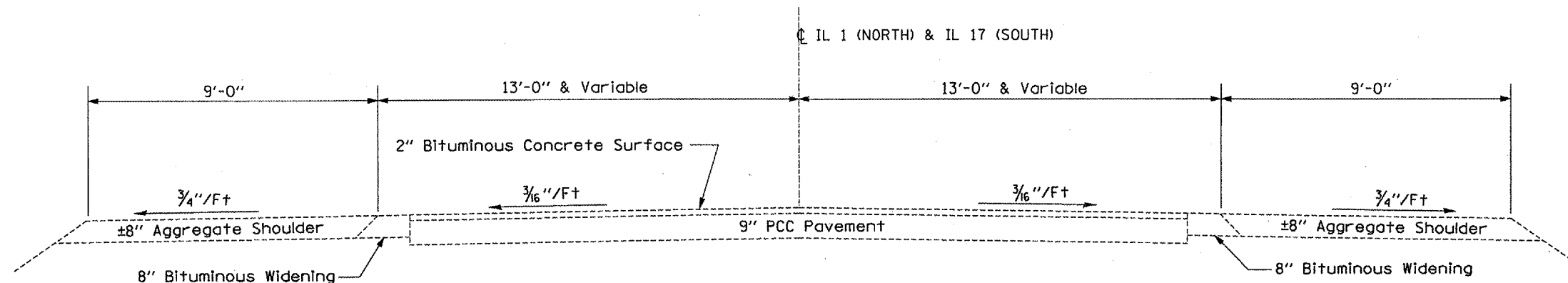
**TYPICAL SECTION 3**  
**STA. 349 + 81 TO STA. 350 + 52**

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TYPICAL SECTIONS**  
**IL ROUTE 1/7**  
**FAP 332 & FAS 310**  
**SECTION (7R-1,101)**  
**KANKAKEE COUNTY**

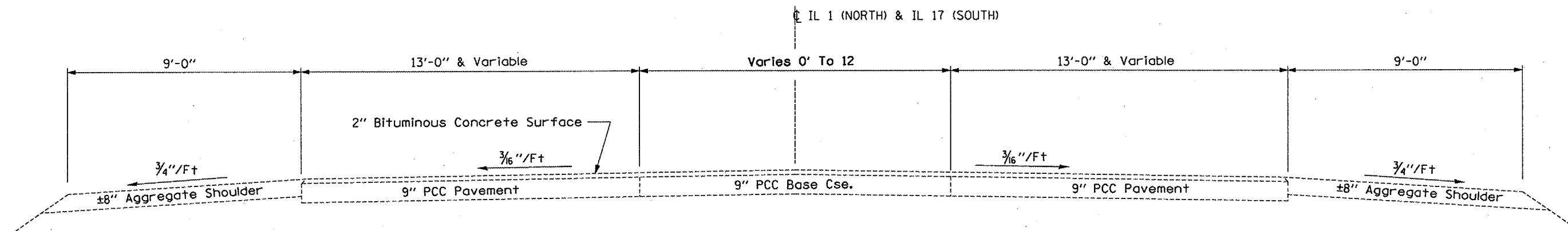
Date: 4/21/2006  
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RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(7R-1,10)I	KANKAKEE	11	5
STA. 248+00		TO STA. 259+00		
ILLINOIS				
*FAP 332 & FAS 310 (IL 1 & IL 17)				



**TYPICAL SECTION 4**

STA. 258 + 55 LT. To STA. 259 + 00 LT.  
 STA. 248 + 00 RT. To STA. 248 + 65 RT.



**TYPICAL SECTION 5**

STA. 248 + 00 LT. To STA. 258 + 55 LT.  
 STA. 248 + 65 RT. To STA. 259 + 00 RT.

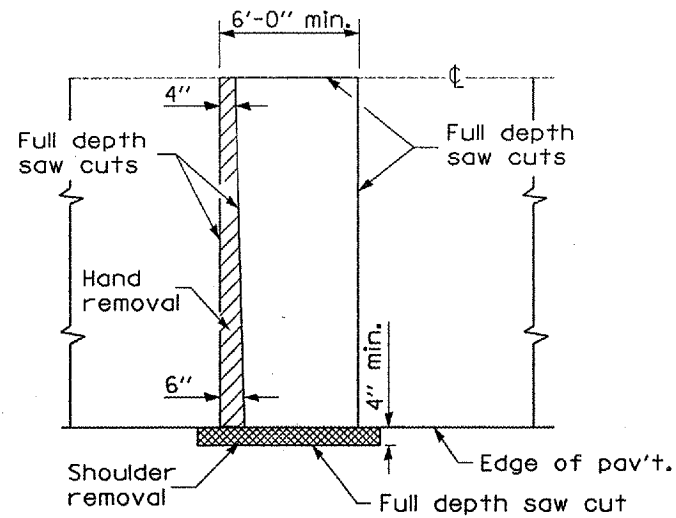
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REVISIONS	
NAME	DATE

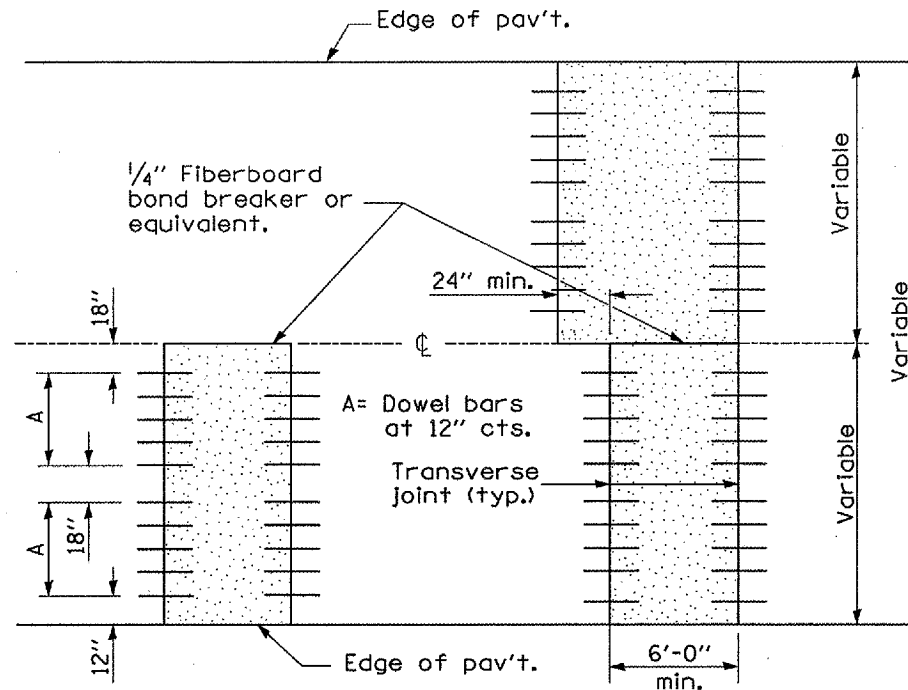
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TYPICAL SECTIONS**  
**IL 1 (NORTH) & IL 17 (SOUTH)**  
 FAP 332 & FAS 310  
 SECTION (7R-1,10)I  
 KANKAKEE COUNTY



RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(7R-1,10)	KANKAKEE	11	7
STA. 248+00		TO STA. 259+00		
ILLINOIS				
*FAP 332 & FAS 310 (IL 1 & IL 17)				

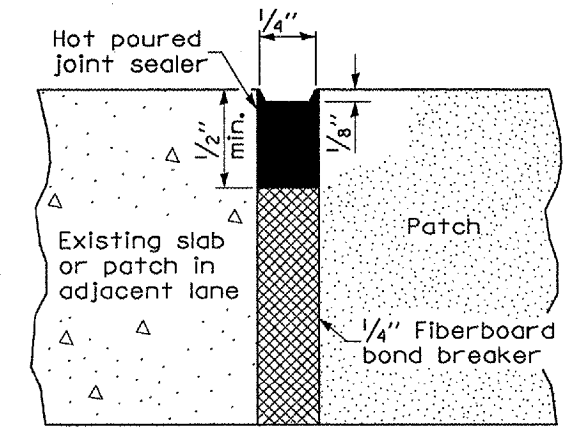


**PAVEMENT SAWING DETAIL**  
(BITUMINOUS SHOULDER)

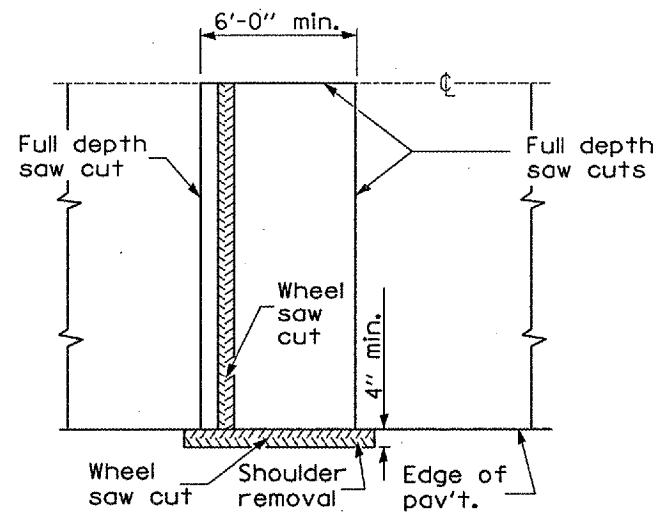


**VARIABLE WIDTH LANES**

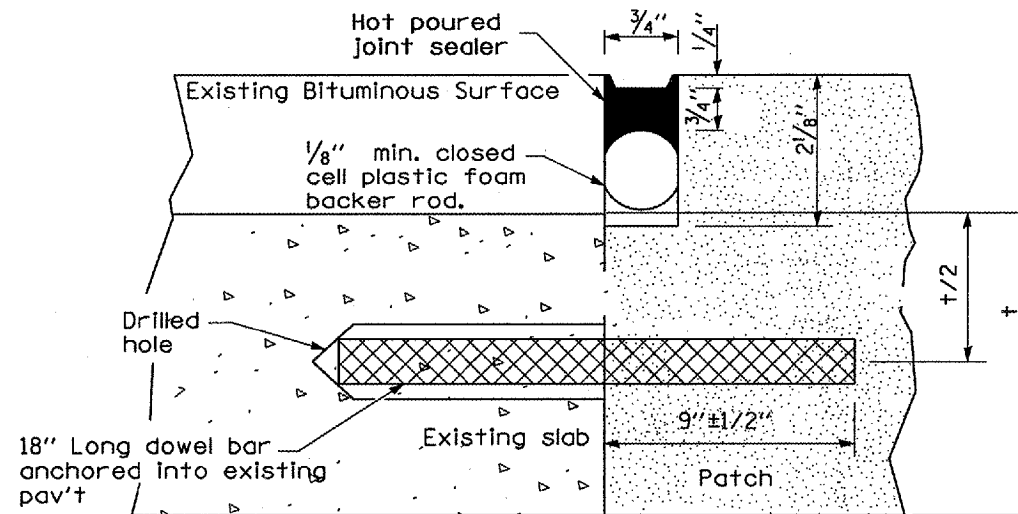
DOWEL BAR TABLE		
PAVEMENT THICKNESS	DOWEL BAR DIAMETER	HOLE DIAMETER
8" or greater	1/2"	1 5/8"
7" thru 7.99"	1/4"	1 3/8"
Less than 7"	1"	1 1/8"



**CENTERLINE JOINT**



**ALTERNATE SAWING DETAIL**  
(BITUMINOUS SHOULDER)



**TRANSVERSE JOINT**

**GENERAL NOTES**

The transverse joints for Class B patches shall align with joints or cracks in the adjacent lane whenever possible.

For Class B patches 14 m (45') or longer, transverse contraction joints shall be installed at regular intervals per the joint spacing of the existing pavement.

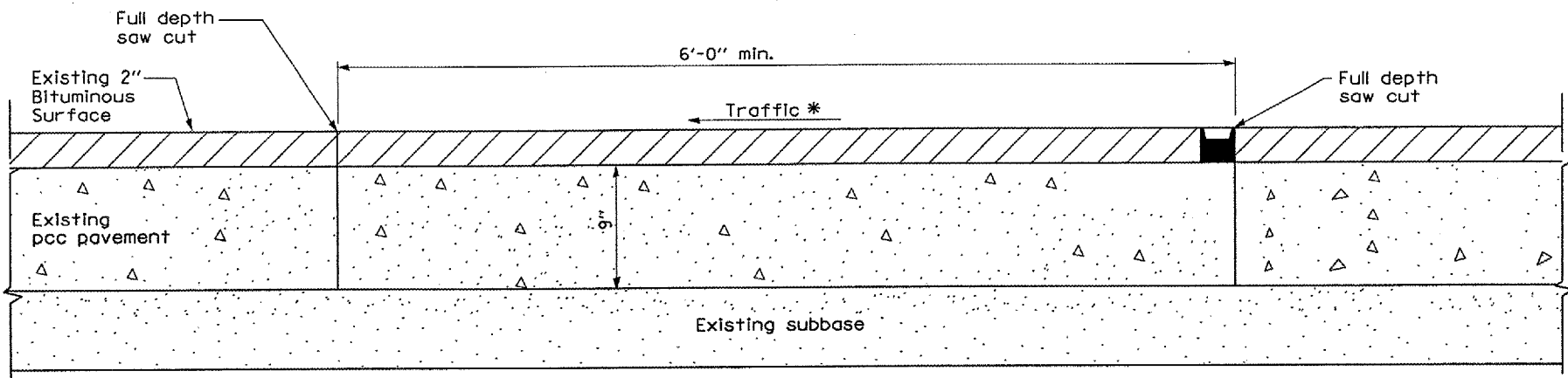
See Standard 420701 for details of pavement fabric.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PAVEMENT PATCHING  
DETAIL**  
FAP 332 & FAS 310  
SECTION (7R-1,10)  
KANKAKEE COUNTY

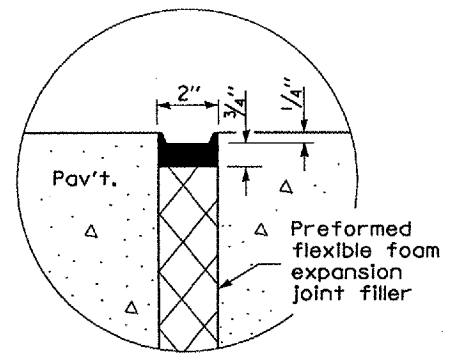
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STA. 248+00		TO STA. 259+00		
ILLINOIS				

\*FAP 332 & FAS 310 (IL 1 & IL 17)

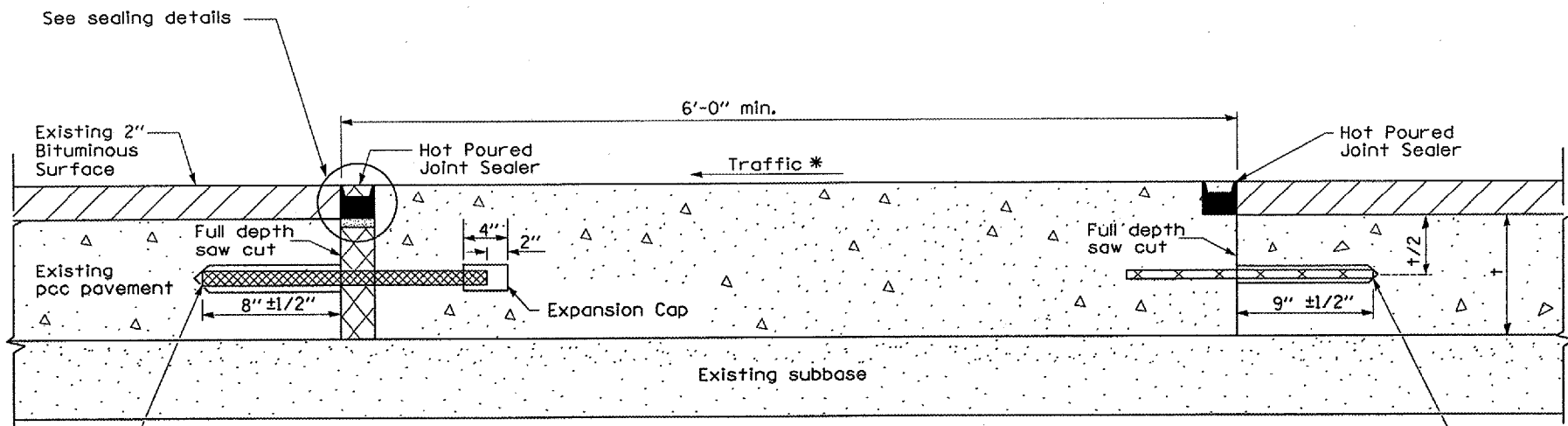


EXISTING PAVEMENT SECTION

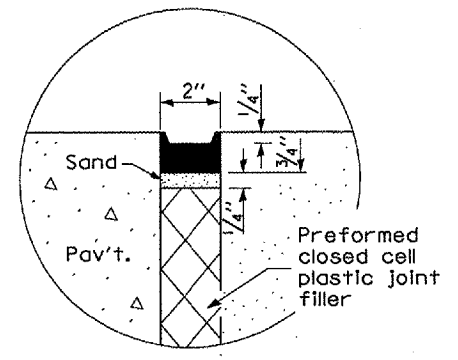
TRANSVERSE EXPANSION JOINTS



SEALING DETAIL



PROPOSED PAVEMENT SECTION



SEALING DETAIL

NOTE

\* When re-establishing a transverse expansion joint on a two-lane, two-way road, reverse the orientation of the dowel bars with respect to traffic for one of the patches such that the joint will be continuous across both lanes.

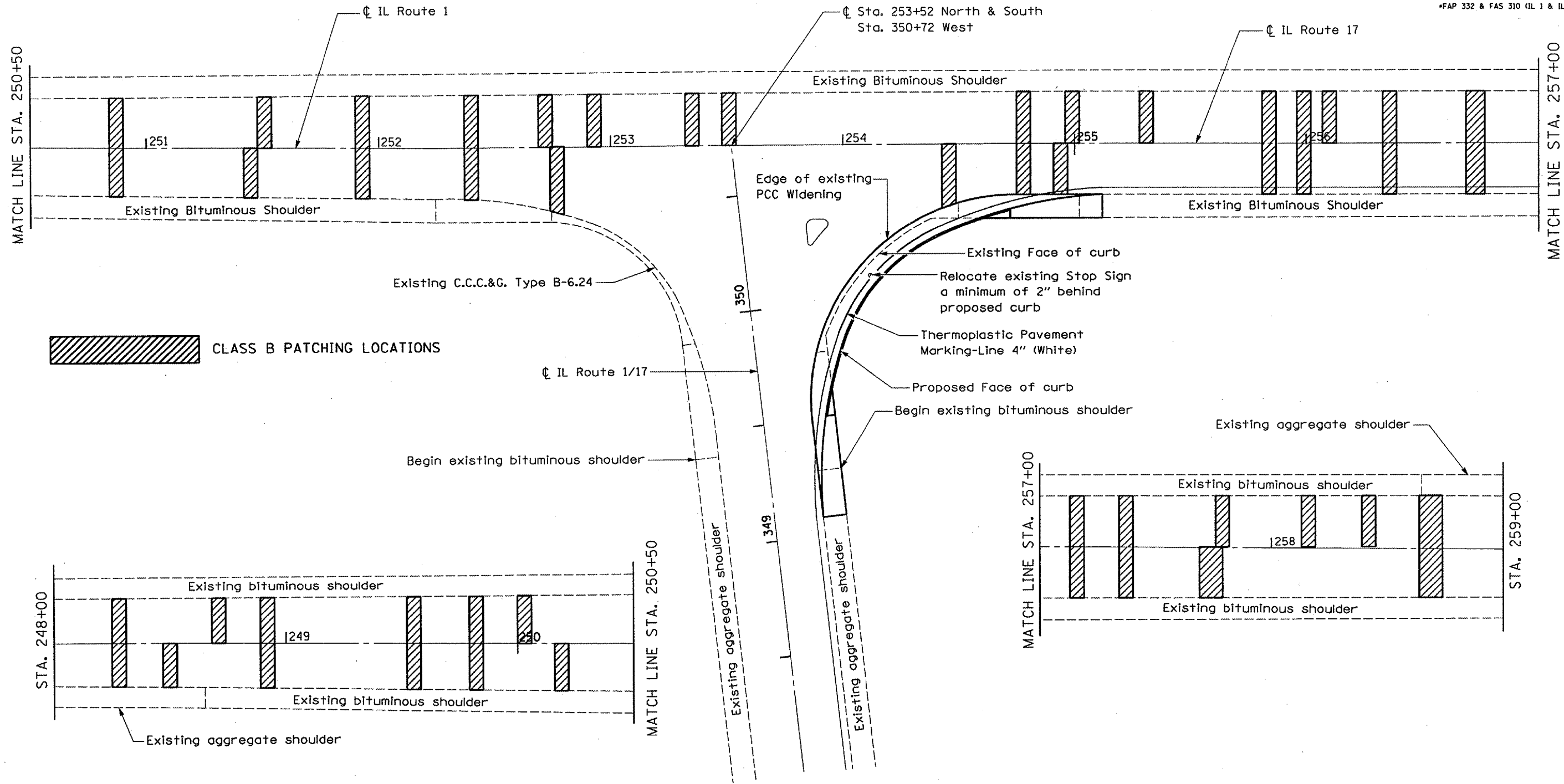
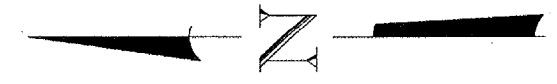
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PAVEMENT PATCHING  
 DETAIL**  
 FAP 332 & FAS 310  
 SECTION (7R-1,10)I  
 KANKAKEE COUNTY

Date: 4/21/2006  
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RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(7R-1,10)	KANKAKEE	11	9
STA. 248+00		TO STA. 259+00		
ILLINOIS				
*FAP 332 & FAS 310 (IL 1 & IL 17)				



CLASS B PATCHING LOCATIONS

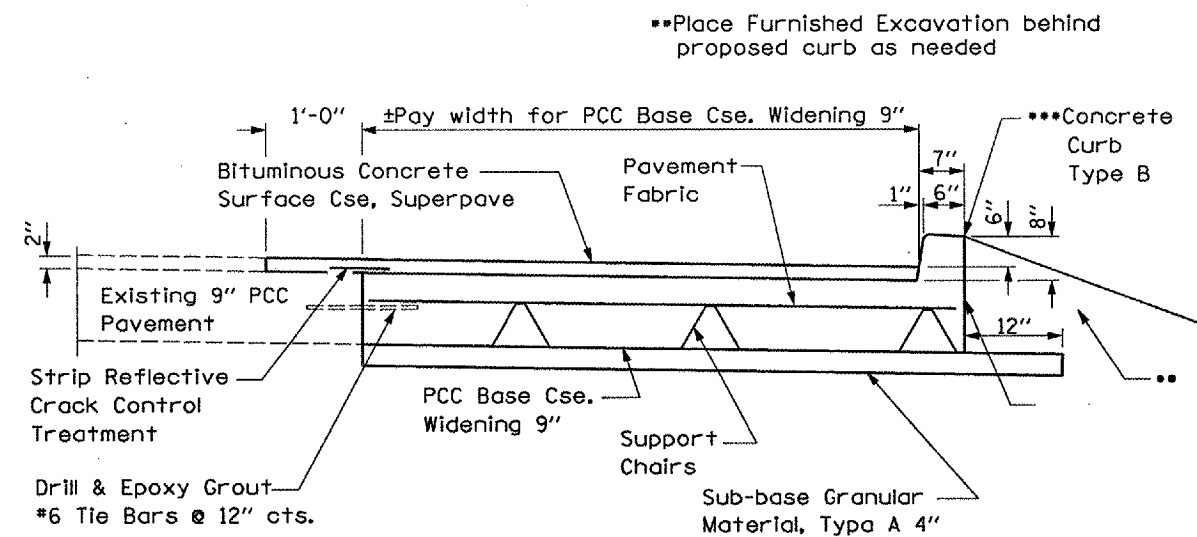
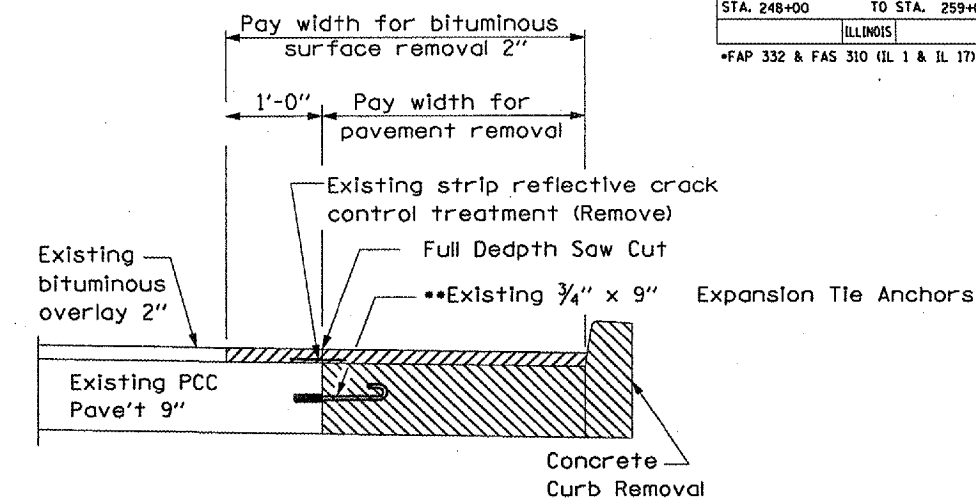
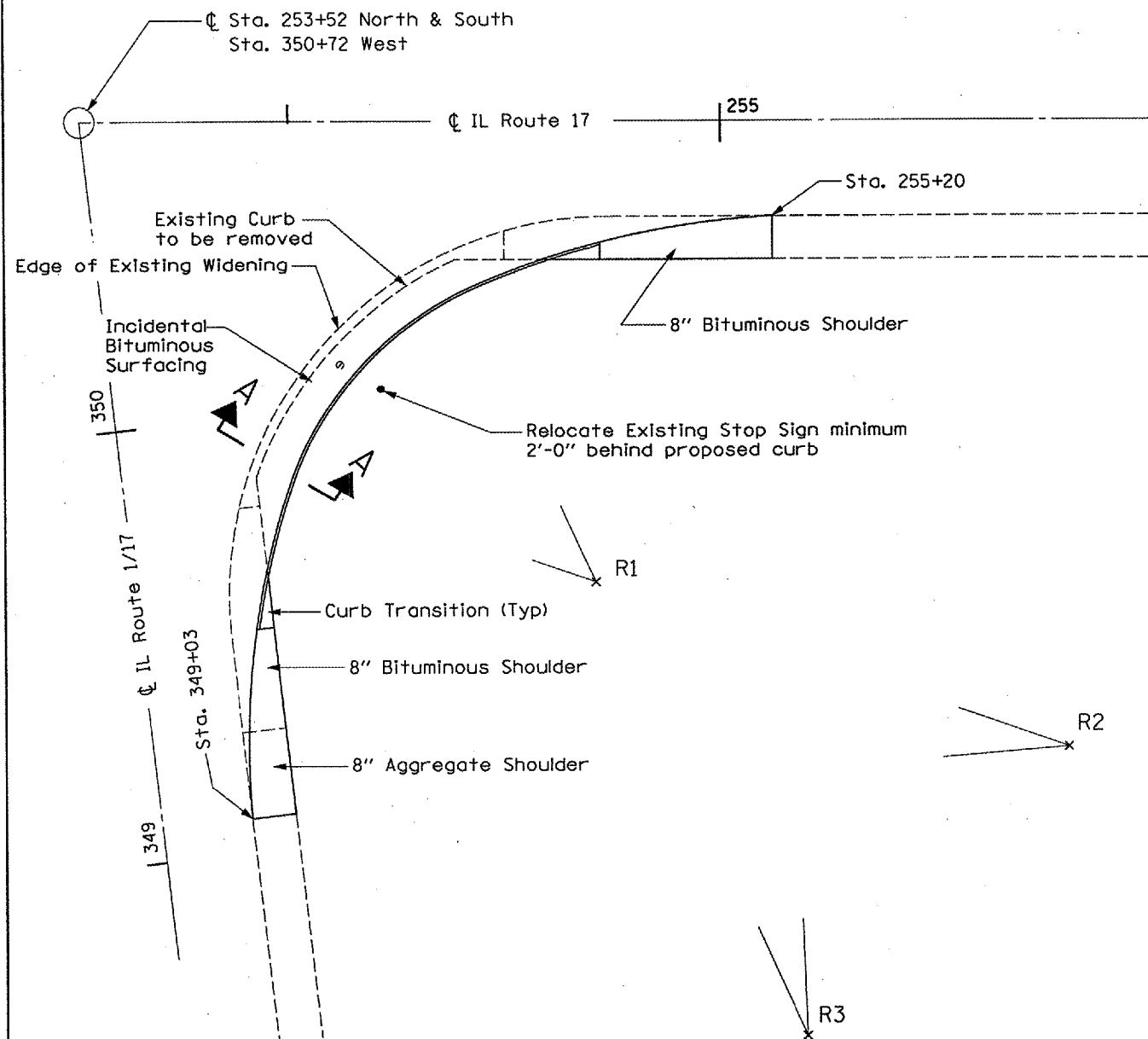
NOTE: Detail not to scale

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**IL17 INTERSECTIONN  
 DETAILS**  
 FAP 332 & FAS 310  
 SECTION (7R-1,10)  
 KANKAKEE COUNTY

Date: 4/21/2006  
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RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(7R-1,10)I	KANKAKEE	11	10
STA. 248+00		TO STA. 259+00		
ILLINOIS				
*FAP 332 & FAS 310 (IL 1 & IL 17)				



RADIUS		IL 1/17		IL 17	
		STA.	S	STA.	S
R1	80'	349+53	107'	254+71	107'
R2	190'	349+03	212'	255+20	143'
R3	190'	348+43	143'	255+81	212'

Note: Offset measurements were taken at Rt. <'s to C of Roadway

•••Type B Curb shall be poured monolithically with PCC Base Cse. Widening. Cost of curb shall be included in the cost of the PCC Widening

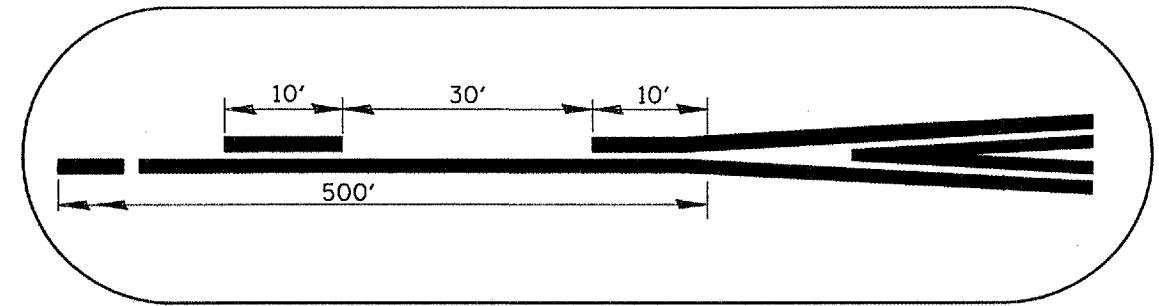
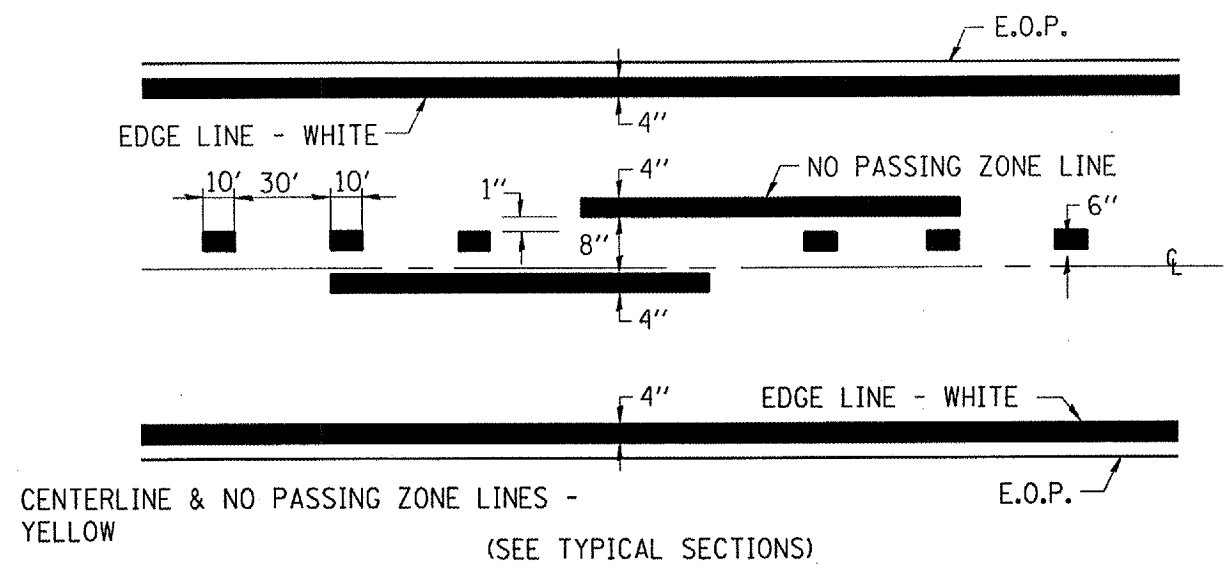
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PAVEMENT WIDENING DETAILS**  
 FAP 332 & FAS 310  
 SECTION (7R-1,10)I  
 KANKAKEE COUNTY

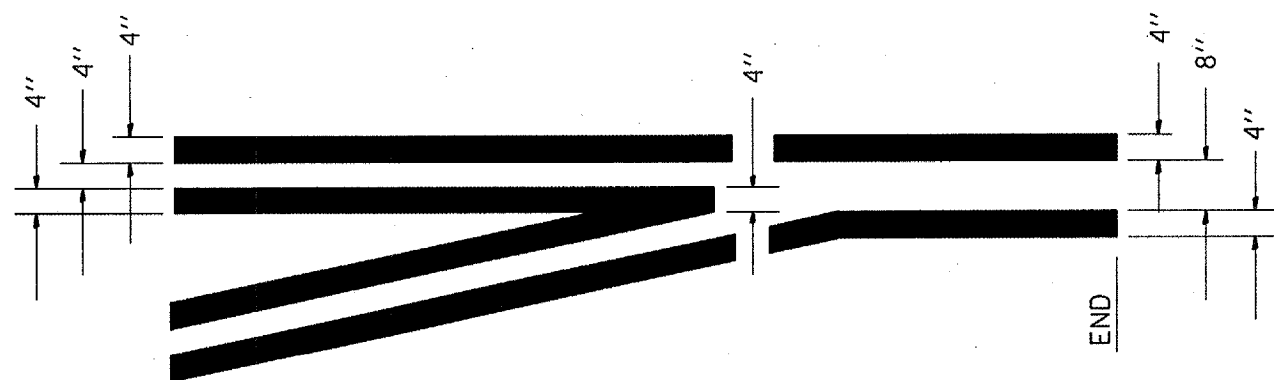
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RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	(7R-1,10)I	KANKAKEE	11	11
STA. 248+00		TO STA. 259+00		
ILLINOIS				

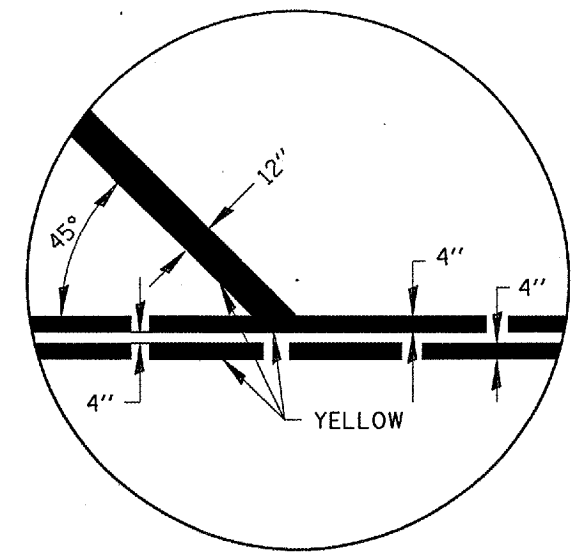
\*FAP 332 & FAS 310 (IL 1 & IL 17)



**PAVEMENT MARKING**



**TYPICAL APPLICATION @ LEFT TURN LANES**



Date: 4/21/2006  
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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TYPICAL PAVEMENT MARKINGS**  
 FAP 332 & FAS 310  
 SECTION (7R-1,10)I  
 KANKAKEE COUNTY