

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
824	(16-2,19X-2)RS-1,19B,19BR	•	52	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 74157		

• COLES/CUMBERLAND

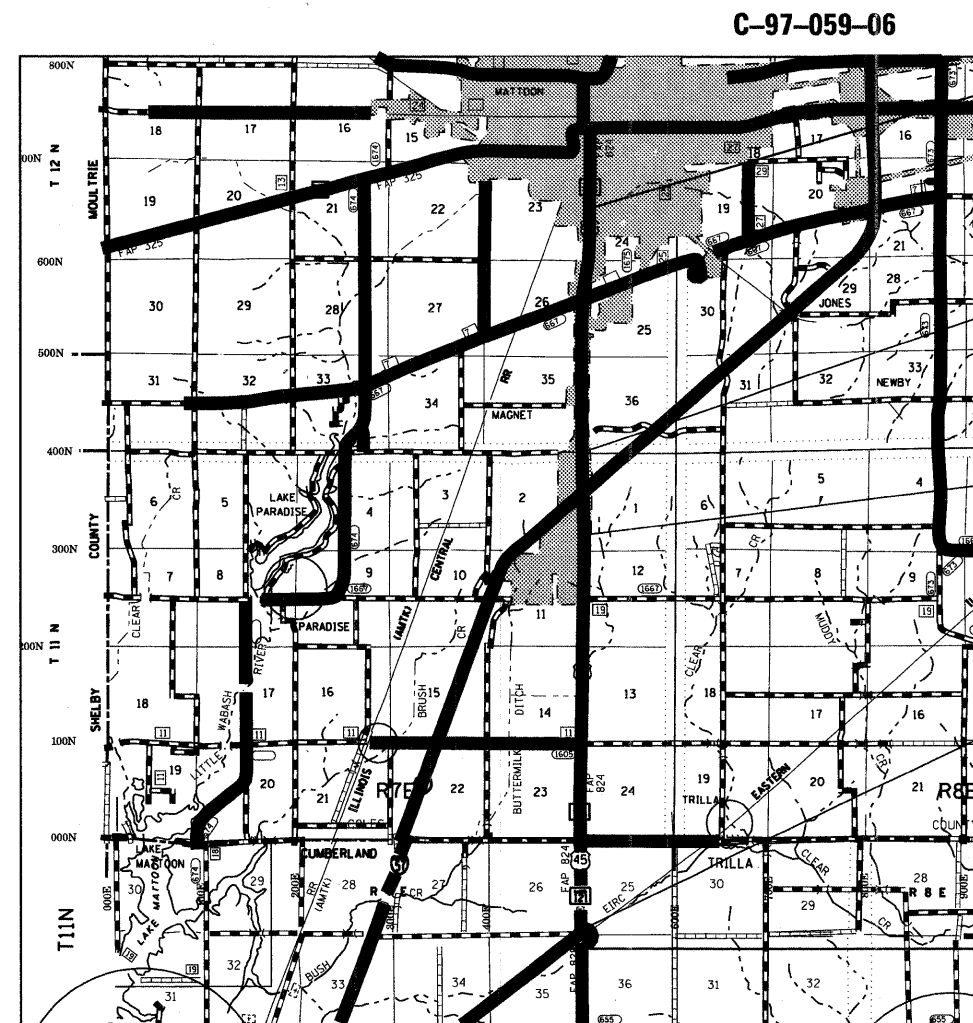
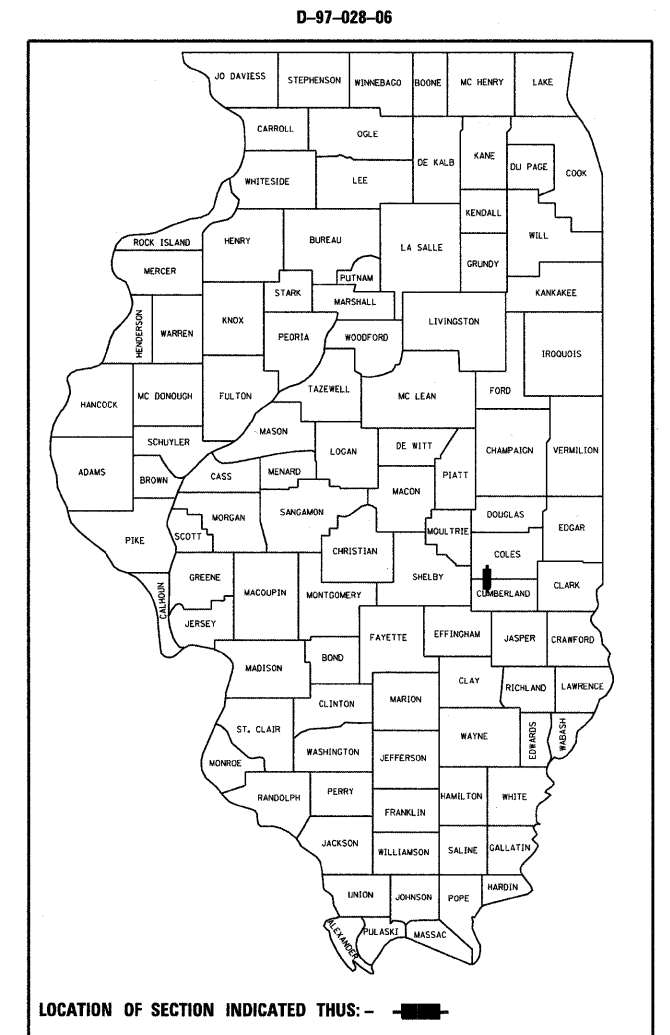
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

FAP ROUTE 824 (US 45)  
SECTION (16-2,19X-2)RS-1,19B,19BR  
PROJECT : F-0824(017)  
HMA RESURFACING/BOX CULVERT REPLACEMENT  
CUMBERLAND & COLES COUNTIES

FOR INDEX OF SHEETS, SEE SHEET NO. 2

2007 ADT = 7200



STA 1418+47  
NORTH END OF PROJECT

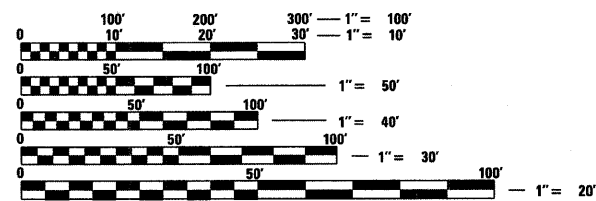
STATION EQUATION  
STA 21+50 BK =  
STA 1292+98 AH

STATION EQUATION  
STA 1242+28.9 BK =  
STA 72+19.1 AH

STATION EQUATION  
STA 1024+47.2 BK =  
STA 1025+05.3 AH

COLES COUNTY  
CUMBERLAND COUNTY STA 1073+85

STA 1015+10  
SOUTH END OF PROJECT



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 ENGINEER: MARK DAUGHERTY  
PROJECT MANAGER: JOYCE HEMMEN

CONTRACT NO. 74157

TOTAL LENGTH OF PROJECT = 40,278.9 FT 7.63 MILES

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED October 17 20 08

Roger K. Driskell  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

December 5, 20 08  
Eric E. Horn  
Interim ENGINEER OF DESIGN AND ENVIRONMENT

December 5, 20 08  
Christine M. Reed  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS**

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THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED AFTER SHEET NO. 52:

<u>STD. NO.</u>	<u>DESCRIPTION</u>
000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
406201-01	MAILBOX TURNOUT
442201-03	CLASS C AND D PATCHES
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606301-04	PC CONCRETE ISLANDS AND MEDIANS
630001-02	STEEL PLATE BEAM GUARDRAIL
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
667101-01	PERMANENT SURVEY MARKERS
701006-03	OFF-RD OPERATIONS, 2L, 2W, 4.5 m (15') TO 600 mm (24") FROM PAVEMENT EDGE
701011-02	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-03	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-02	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS >=45 MPH
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701336-05	LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES, FOR SPEEDS >=45 MPH
701421-02	LANE CLOSURE, MULTI-LANE, DAY OPERATIONS ONLY, FOR SPEEDS >=45 MPH
701423-03	LANE CLOSURE, MULTILANE, WITH BARRIER, FOR SPEEDS >= 45 MPH TO 55 MPH
701426-03	LANE CLOSURE, MULTI-LANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS >=45 MPH
701602-04	URBAN LANE CLOSURE, MULTI-LANE, 2W, WITH BI-DIRECTIONAL TURN LANE
701901-01	TRAFFIC CONTROL DEVICES
704001-05	TEMPORARY CONCRETE BARRIER
780001-02	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUT FOR DETECTOR LOOPS

FILE NAME =				USER NAME = swartzrw				DESIGNED -				REVISED -				<p align="center"><b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b></p>				<p align="center"><b>INDEX OF SHEETS</b></p>				F.A.P. RTE.		SECTION		COUNTY		TOTAL SHEETS		SHEET NO.	
ct:\pw_work\PWIDOT\SWARTZRW\dms50699\sh				cover_74157.dgn				DRAWN -				REVISED -												824		(16-2,19X-2)RS-1,19B,19BR		*		52		2	
PLOT SCALE = 100,0000 ' / IN.				CHECKED -				REVISED -				SCALE: N/A												SHEET NO. OF SHEETS		STA. TO STA.		FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			
PLOT DATE = 10/20/2008				DATE -				REVISED -																									

• COLES/CUMBERLAND

GENERAL NOTES

THE PROPOSED PROJECT IS LOCATED ON US 45 AND LIES IN COLES AND CUMBERLAND COUNTIES. THE PROJECT BEGINS ABOUT 0.2 MILES SOUTH OF ILLINOIS 121 AND EXTENDS NORTHWARDS TO RUDY AVENUE IN MATTOON. THE WORK INCLUDED IN SECTION (16-2, 19X-2)RS-1, 19B, 19BR CONSISTS OF PAVEMENT PATCHING, MILLING, LEVELING BINDER, HOT-MIX ASPHALT SURFACE COURSE, AND AGGREGATE SHOULDERS THROUGH THE RURAL AREA. AN INLAY IS PROPOSED THROUGH THE CURB AND GUTTER SECTION. CULVERT REMOVAL AND REPLACEMENT OF STRUCTURE #015-2006, A HOT-MIX ASPHALT OVERLAY FOR SN 015-0025 AND ANY OTHER WORK NECESSARY TO COMPLETE THE SECTION.

THE CONTRACTOR SHALL PROVIDE INTERNET ACCESS TO THE HOT-MIX ASPHALT PLANT QUALITY CONTROL LAB SO THAT HOT-MIX ASPHALT PLANT REPORTS CAN BE E-MAILED TO THE DISTRICT HEADQUARTERS. THIS WORK SHALL BE INCLUDED IN THE COST OF HOT-MIX ASPHALT ITEMS.

HOT-MIX ASPHALT MATERIALS (PRIME COAT) SHALL BE EITHER RC-70 OR AN EMULSIFIED POLYMER PRIME SS-1HP. VIBRATORY ROLLERS WILL NOT BE ALLOWED WITHIN THE CORPORATE CITY LIMITS OF MATTOON. DENSITY REQUIREMENTS, HOWEVER, WILL REMAIN AS SPECIFIED.

THE MAXIMUM ALLOWABLE DIFFERENTIAL IN ELEVATION BETWEEN ADJACENT OPEN TRAFFIC LANES SHALL BE 2 INCHES.

THE CONTRACTOR WILL BE REQUIRED TO CONSTRUCT THE 4" SURFACE COURSE ON SN 015-0025 IN 2 - 2" LIFTS.

RAP SHALL BE USED TO ENSURE SHOULDER IS STABLE WHERE GUARDRAIL IS BEING INSTALLED. THIS WORK SHALL BE INCLUDED IN THE COST OF GUARDRAIL PAY ITEMS.

AGGREGATE SHOULDERS, TYPE B SHALL BE CRUSHED STONE, CRUSHED CONCRETE, OR RAP.

AGGREGATE SURFACE COURSE, TYPE B SHALL BE CRUSHED STONE OR CRUSHED CONCRETE.

AT APPROXIMATE STATION 1141+20 RT THE FIELD ENTRANCE CONTAINS A SINGLE SPAN CONCRETE STRUCTURE OVER A LARGE DRAINAGE DITCH. THE CONCRETE BRIDGE SHALL BE REMOVED. THE MAIN ACCESS TO THE FIELD IS ON ETNA ROAD. ANY NECESSARY DITCH WORK AT THIS LOCATION SHALL BE INCLUDED IN THE COST OF REMOVAL OF EXISTING STRUCTURES.

ANY NECESSARY SEEDING ON THE PROJECT SHALL BE APPLIED IN ACCORDANCE WITH SECTION 250 OF THE STANDARD SPECIFICATIONS FOR SEEDING, CLASS 2A. SEEDING CLASS 2A, NITROGEN FERTILIZER NUTRIENT, PHOSPHORUS FERTILIZER NUTRIENT, POTASSIUM FERTILIZER NUTRIENT AND MULCH SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF REMOVAL OF EXISTING STRUCTURES.

THE PAVEMENT MARKING QUANTITIES WERE OBTAINED FROM EXISTING CONDITIONS AS DETERMINED FROM FIELD MEASUREMENTS AND FROM EXISTING PLANS.

PAVEMENT MARKING SHALL BE APPLIED IN ACCORDANCE WITH SECTION 780 OF THE STANDARD SPECIFICATIONS. SHORT TERM PAVEMENT MARKING SHALL BE APPLIED TO THE MILLED SURFACE, HOT-MIX ASPHALT MATERIALS (PRIME COAT), AND HOT-MIX ASPHALT SURFACE COURSE AS SPECIFIED IN SECTION 703 OF THE STANDARD SPECIFICATIONS. TEMPORARY TAPE SHALL BE USED ON THE SURFACE COURSE AND PAINT SHALL BE USED ON MILLED SURFACE.

THE TOTAL QUANTITY OF URETHANE PAVEMENT MARKING - LINE 4 INCH CONSISTS OF 56957 FEET OF YELLOW AND 81913 FEET OF WHITE.

THE TOTAL QUANTITY OF URETHANE PAVEMENT MARKING - LINE 6 INCH CONSISTS OF 5872 FEET OF WHITE.

THE TOTAL QUANTITY OF URETHANE PAVEMENT MARKING - LINE 12 INCH CONSISTS OF 998 FEET OF YELLOW AND 369 FEET OF WHITE.

THE TOTAL QUANTITY OF URETHANE PAVEMENT MARKING - LINE 24 INCH CONSISTS OF 574 FEET OF WHITE.

THE EXISTING PAVEMENT SHALL BE PATCHED IN ACCORDANCE WITH SECTION 442 OF THE STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS. THE QUANTITY OF PATCHING SHOWN ON THE PLANS IS AN ESTIMATE ONLY AND THE FINAL LOCATIONS AND QUANTITY SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE USE OF VIBRATORY ROLLERS WILL NOT BE ALLOWED IN URBAN AREA (DUE TO VIBRATION PROBLEMS) BUT THE DENSITY REQUIREMENT WILL REMAIN THE SAME.

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

AGGREGATE (PRIME COAT) 4.0 LB/SQ YD  
 BIT MATLS (PRIME COAT) 0.1 GAL/SQ YD  
 BITUMINOUS CONCRETE 112 LBS/SQ YD/INCH

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

**SURFACE**

MIXTURE USE: SURFACE COURSE - 1 1/2"  
 APPLICATION: HOT-MIX ASPHALT SURFACE COURSE MIX "D", N90  
 PG GRADE: PG 64-22  
 DESIGN AIR VOIDS: 4.0% @ NDESIGN = 90  
 MIXTURE COMPOSITION: IL-9.5  
 FRICTION AGGREGATE: MIXTURE D

**BINDER**

MIXTURE USE: LEVEL BINDER - 3/4 "  
 APPLICATION: LEVELING BINDER (MACHINE METHOD N90)  
 PG GRADE: PG 64-22  
 DESIGN AIR VOIDS: 4.0% @ NDESIGN = 90  
 MIXTURE COMPOSITION: IL-9.5  
 FRICTION AGGREGATE: N/A

**PATCHING**

MIXTURE USE: PAVEMENT PATCHING  
 APPLICATION: HOT-MIX ASPHALT BINDER COURSE, IL- 19.0, N70  
 PG GRADE: PG 64-22  
 DESIGN AIR VOIDS: 4.0% @ NDESIGN = 70  
 MIXTURE COMPOSITION: IL-19.0  
 FRICTION AGGREGATE: N/A

**INCIDENTAL**

MIXTURE USE: INCIDENTAL BITUMINOUS SURFACE (DRIVEWAYS)  
 APPLICATION: HOT-MIX ASPHALT SURFACE COURSE, MIX"C" N50  
 PG GRADE: PG 64-22  
 DESIGN AIR VOIDS: 4.0% @ NDESIGN = 50  
 MIXTURE COMPOSITION: IL-9.5  
 FRICTION AGGREGATE: MIXTURE C

THE FOLLOWING MIXTURE REQUIREMENTS SHALL BE USED FOR THE 2-LANE SECTION SOUTH OF LAKELAND COLLEGE TO THE SOUTHERN END OF THE PROJECT.

**BINDER**

MIXTURE USE: LEVEL BINDER - 3/4 "  
 APPLICATION: LEVELING BINDER (MACHINE METHOD) N70  
 PG GRADE: PG 64-22  
 DESIGN AIR VOIDS: 4.0% @ NDESIGN = 70  
 MIXTURE COMPOSITION: IL-9.5  
 FRICTION: N/A

**SURFACE**

MIXTURE USE: SURFACE COURSE - 1 1/2"  
 APPLICATION: HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70  
 PG GRADE: PG 64-22  
 DESIGN AIR VOIDS: 4.0% @ NDESIGN = 70  
 MIXTURE COMPOSITION: IL-9.5  
 FRICTION AGGREGATE: MIXTURE C

THE FOLLOWING MIXTURE REQUIREMENTS SHALL BE USED FOR THE BOX CULVERT REMOVAL AND REPLACEMENT OF SN 015-2023. THE BINDER AND SURFACE COURSES FOR THIS SECTION SHALL BE PAID FOR AS HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 13 3/4".

**BINDER**

MIXTURE USE: BINDER COURSE, 12 1/4"  
 APPLICATION: HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90  
 PG GRADE: PG 64-22  
 DESIGN AIR VOIDS: 4.0% @ NDESIGN = 90  
 MIXTURE COMPOSITION: IL-19.0  
 FRICTION: N/A

**SURFACE**

MIXTURE USE: SURFACE COURSE - 1 1/2"  
 APPLICATION: HOT-MIX ASPHALT SURFACE COURSE MIX "D", N90  
 PG GRADE: PG 64-22  
 DESIGN AIR VOIDS: 4.0% @ NDESIGN = 90  
 MIXTURE COMPOSITION: IL-9.5  
 FRICTION AGGREGATE: MIXTURE D

• COLES/CUMBERLAND

FILE NAME =	USER NAME = swar-tzrw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL NOTES</b>				F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ci:\pwork\work\swar-tzrw\dms50699\shgcover_74157.dgn		DRAWN -	REVISED -		824	(16-2,19X-2)RS-1,19B,19BR		52	3				
PLOT SCALE = 50.0000' / 1" IN.		CHECKED -	REVISED -		CONTRACT NO. 74157								
PLOT DATE = 10/17/2008		DATE -	REVISED -		SCALE: N/A	SHEET NO. OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES			80% FED. 20% STATE TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		I000			X028 - 2A	SFTY2A
				CUMBERLAND	COLES		COLES	COLES
				RURAL	RURAL	URBAN	URBAN	URBAN
20200100	EARTH EXCAVATION	CU YD	1538				1538	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	270				270	
20700220	POROUS GRANULAR EMBANKMENT	CU YD	491				491	
28100107	STONE RIPRAP, CLASS A4	SQ YD	262				262	
28200200	FILTER FABRIC	SQ YD	262				262	
31101400	SUB-BASE GRANULAR MATERIAL, TYPE B 6"	SQ YD	753				753	
35400500	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 10"	SQ YD	144				144	
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	16	2	3	11		
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	23018	1876	2223	18919		
40600300	AGGREGATE (PRIME COAT)	TON	460	38	46	376		
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	2764	788	934	1042		
40600645	LEVELING BINDER (MACHINE METHOD), N90	TON	6904			6904		
40600895	CONSTRUCTING TEST STRIP	EACH	1	1				
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	1200	135		1065		
40600990	TEMPORARY RAMP	SQ YD	973	37		936		
40600995	TEMPORARY RAMP, SPECIAL	SQ YD	1137			1137		
40603315	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	5528	1576	1867	2085		
40603345	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90	TON	13841			13806		35
40701956	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 13 3/4"	SQ YD	753				753	
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	411	90	32	289		
44000100	PAVEMENT REMOVAL	SQ YD	753				753	
44000151	HOT-MIX ASPHALT SURFACE REMOVAL, 1/2"	SQ YD	202520	18758	22228	161534		
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	27163			27163		
44000198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	460			460		
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	493			63	430	
44000915	HOT-MIX ASPHALT SURFACE REMOVAL (DECK)	SQ YD	142					142
44003100	MEDIAN REMOVAL	SQ FT	163			163		
44004250	PAVED SHOULDER REMOVAL	SQ YD	94				94	
44201785	CLASS D PATCHES, TYPE I, 12 INCH	SQ YD	18			18		
44201789	CLASS D PATCHES, TYPE II, 12 INCH	SQ YD	1386			1386		

SUMMARY OF QUANTITIES			80% FED. 20% STATE TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		1000			X028 - 2A	SFTY2A
				CUMBERLAND	COLES		COLES	COLES
			RURAL	RURAL	URBAN	URBAN	URBAN	
44201794	CLASS D PATCHES, TYPE III, 12 INCH	SQ YD	96			96		
44201796	CLASS D PATCHES, TYPE IV, 12 INCH	SQ YD	73			73		
44201815	CLASS D PATCHES, TYPE II, 14 INCH	SQ YD	372	37	32	303		
44201819	CLASS D PATCHES, TYPE III, 14 INCH	SQ YD	39		16	23		
44201821	CLASS D PATCHES, TYPE IV, 14 INCH	SQ YD	85		85			
44201827	CLASS D PATCHES, TYPE II, 15 INCH	SQ YD	259			259		
44201831	CLASS D PATCHES, TYPE III, 15 INCH	SQ YD	69			69		
44201851	CLASS D PATCHES, TYPE II, 17 INCH	SQ YD	64		48	16		
44201863	CLASS D PATCHES, TYPE II, 18 INCH	SQ YD	259			259		
44201914	CLASS D PATCHES, TYPE II, 22 INCH	SQ YD	61			61		
48101200	AGGREGATE SHOULDERS, TYPE B	TON	3111	331	472	2308		
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	89			89		
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	2	1	1			
50102400	CONCRETE REMOVAL	CU YD	6.9				6.9	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	6.9				6.9	
50800105	REINFORCEMENT BARS	POUND	142910			142910		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1520				1520	
50800515	BAR SPLICERS	EACH	280			280		
51205200	TEMPORARY SHEET PILING	SQ FT	1550			1550		
51500100	NAME PLATES	EACH	1			1		
54003000	CONCRETE BOX CULVERTS	CU YD	621.3			621.3		
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	142				142	
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	436			436		
60609200	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.12	FOOT	63			63		
60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT	163			163		
* 63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	113	100	13			
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	7	2	5			
63200310	GUARDRAIL REMOVAL	FOOT	497	190	307			
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	5	1	1	3		
67100100	MOBILIZATION	L SUM	1	1				
70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	L SUM	1	1				
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1		1			

\*Specialty Items

• COLES/CUMBERLAND

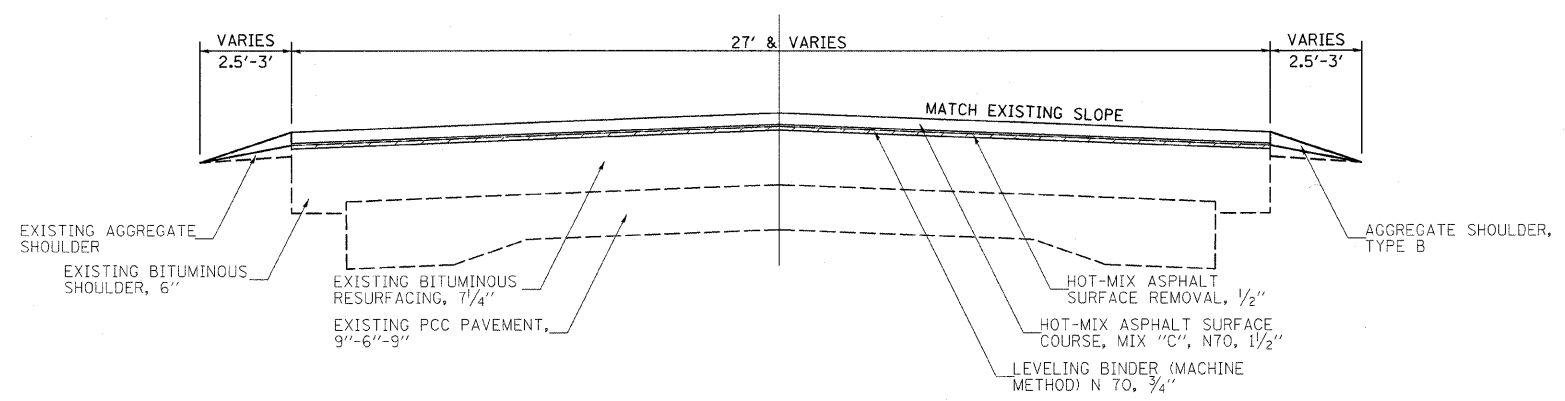
FILE NAME =	USER NAME = staffennk	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>				F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
et:\pwwork\pwidot\STEFFENMK\dms50599\stsoq_74157.dgn		DRAWN -	REVISED -		SCALE: N/A	SHEET NO.	OF	SHEETS	STA.	TO STA.	824	(16-2,19X-2)RS-1,19B,19BR	52	5
		CHECKED -	REVISED -						CONTRACT NO. 74157					
		DATE -	REVISED -						FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT					

SUMMARY OF QUANTITIES			801. FED. 201 STATE TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		1000		X028-2A	SFTY2A	
				CUMBERLAND	COLES		COLES	COLES
			RURAL	RURAL	URBAN	URBAN	URBAN	
70100600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	L SUM	1		1			
70101800	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1		0.5	0.5		
70102672	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602, SPECIAL	L SUM	1				1	
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	36885	2395	2964	31526		
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	1796	31		1765		
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	138870	18929	16671	103270		
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	5872	170		5702		
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	1367	293		1074		
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	574			574		
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	5523	200	247	5076		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1013			1013		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	730			730		
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	1192	129	93	970		
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	5		5			
78300100	PAVEMENT MARKING REMOVAL	SQ FT	441			441		
* 88600100	DETECTOR LOOP, TYPE I	FOOT	932			932		
* X7800600	URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS, SPECIAL	SQ FT	1796	31		1765		
* X7800610	URETHANE PAVEMENT MARKING - LINE 4"	FOOT	138870	18929	16671	103270		
* X7800630	URETHANE PAVEMENT MARKING - LINE 6"	FOOT	5872	170		5702		
* X7800650	URETHANE PAVEMENT MARKING - LINE 12"	FOOT	1367	293		1074		
* X7800680	URETHANE PAVEMENT MARKING - LINE 24"	FOOT	574			574		
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	8				8	
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	6				6	
Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	16				16	
Z0025500	FURNISHING AND INSTALLING PROPERTY MARKERS	EACH	9	9				
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	4			4		
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	4			4		
* Z0054505	ROCK FILL - REPLACEMENT	TON	554				554	

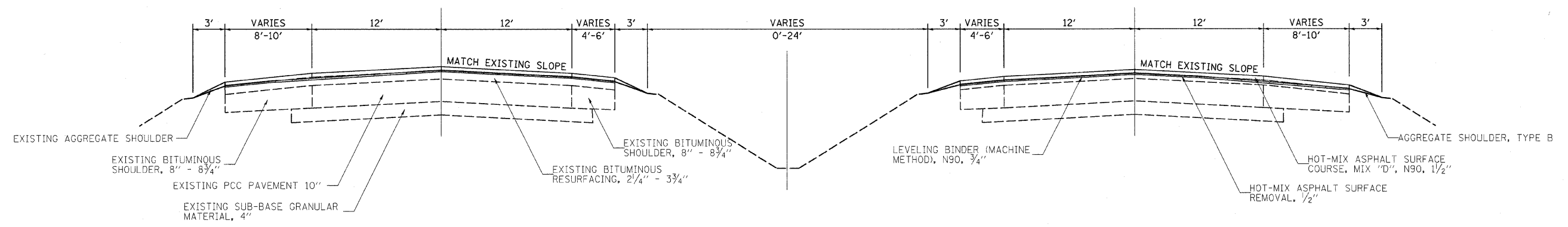
\*Specialty Items

• COLES/CUMBERLAND

FILE NAME =	USER NAME = steffennk	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\PIWIDOT\STEFFENK\dms58699\tsq.74157.dgn		DRAWN -	REVISED -		824	116-2,19X-2RS-1,19B,19BR	*	52	6				
		CHECKED -	REVISED -						CONTRACT NO. 74157				
		DATE -	REVISED -		SCALE: N/A	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	



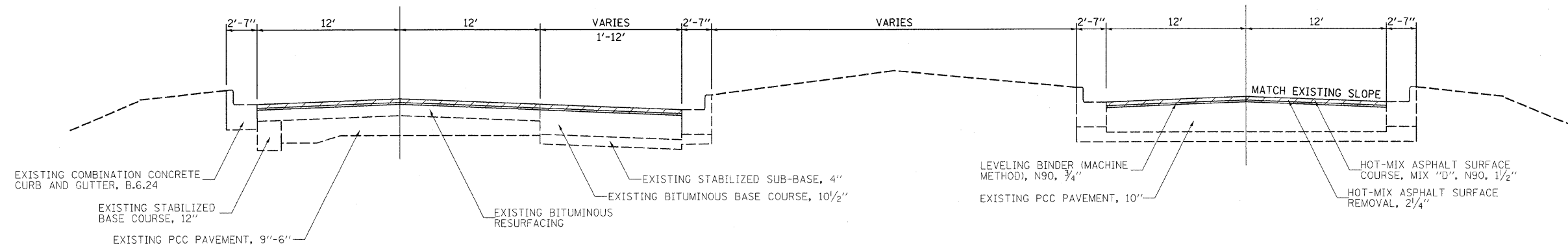
STA 1015+10 TO 1024+47.2  
 STATION EQUATION  
 STA 1024+47.2BK=1025+05.3AH  
 STA 1025+05.3 TO 1242+28.9  
 STATION EQUATION  
 STA 1242+28.9BK=72+19.1AH  
 STA 72+19.1 TO 70+64



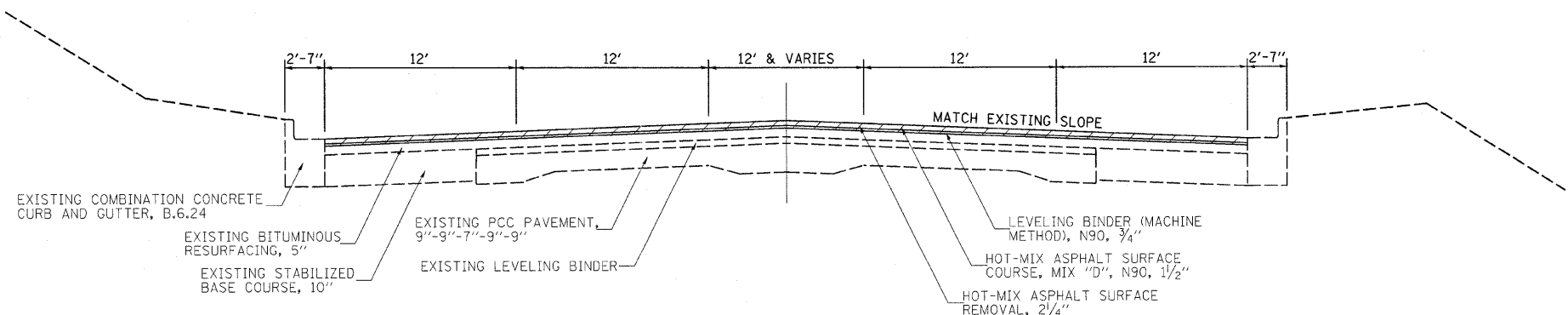
STA 70+64 TO 21+50  
 STATION EQUATION  
 STA 21+50BK=1292+98AH  
 STA 1292+98 TO 1380+65

• COLES/CUMBERLAND

FILE NAME =	USER NAME = swartzw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL CROSS SECTIONS</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwwork\pwwork\swartzw\dms50699\shhtp_74157.dgn	PLOT SCALE = 50,0000 ' / IN.	DRAWN -	REVISED -		SCALE: N/A	SHEET NO. 1 OF 2 SHEETS	STA.	TO STA.	824	(16-2,19X-2)RS-1,19B,19BR	•	52	7
PLOT DATE = 10/17/2006	DATE -	CHECKED -	REVISED -					CONTRACT NO. 74157					
		DATE -	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					



STA 1380+65 TO 1384+00



STA 1384+00 TO 1418+47

• COLES/CUMBERLAND

FILE NAME =	USER NAME = swartzw
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PLOT SCALE = 50.0000' / IN.	
PLOT DATE = 10/17/2008	

DESIGNED -	REVISD -
DRAWN -	REVISD -
CHECKED -	REVISD -
DATE -	REVISD -

DESIGNED -	REVISD -
DRAWN -	REVISD -
CHECKED -	REVISD -
DATE -	REVISD -

DESIGNED -	REVISD -
DRAWN -	REVISD -
CHECKED -	REVISD -
DATE -	REVISD -

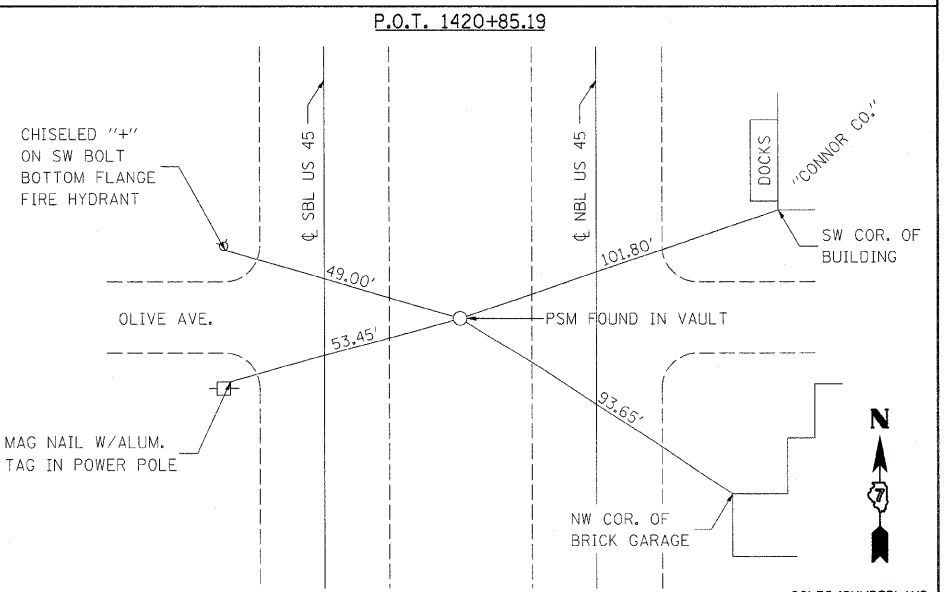
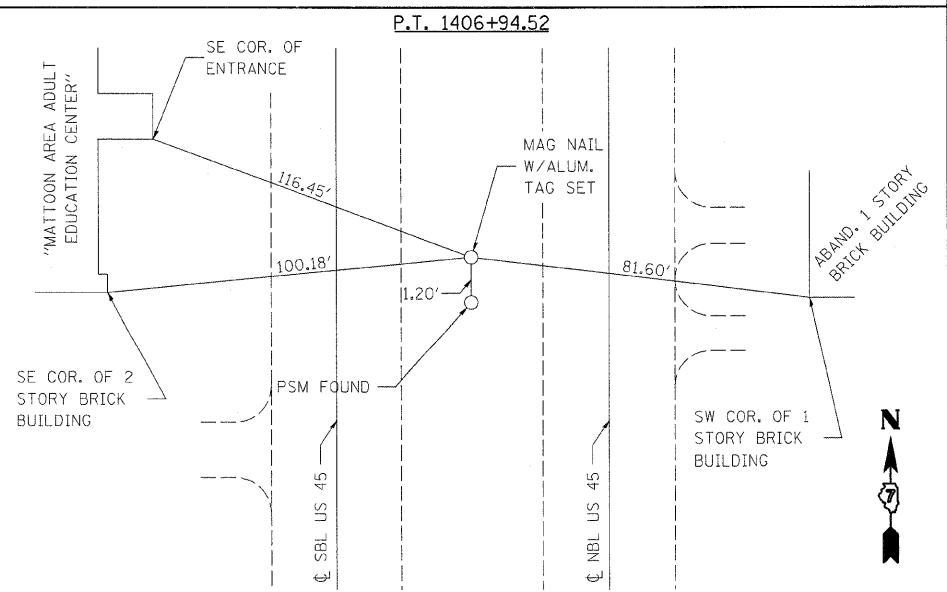
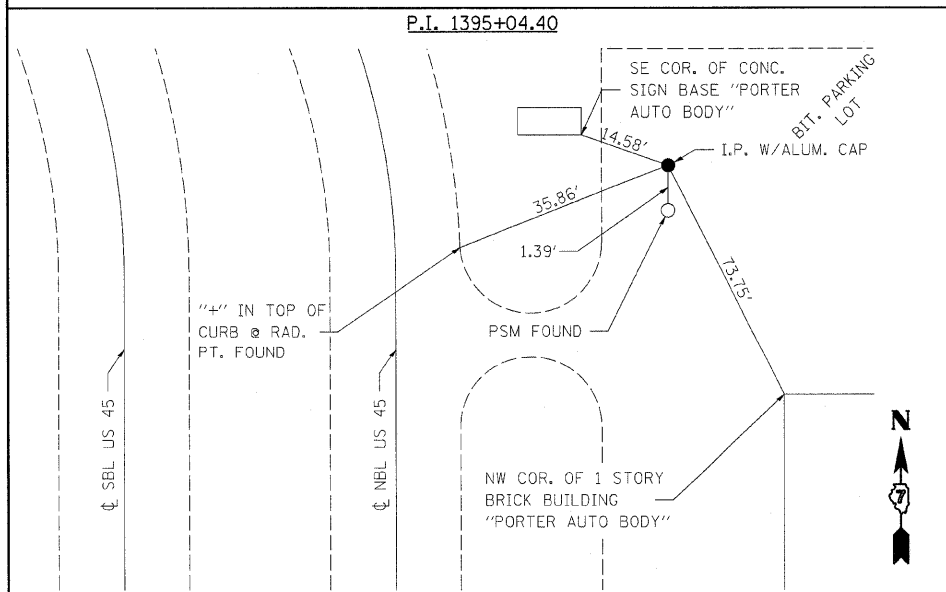
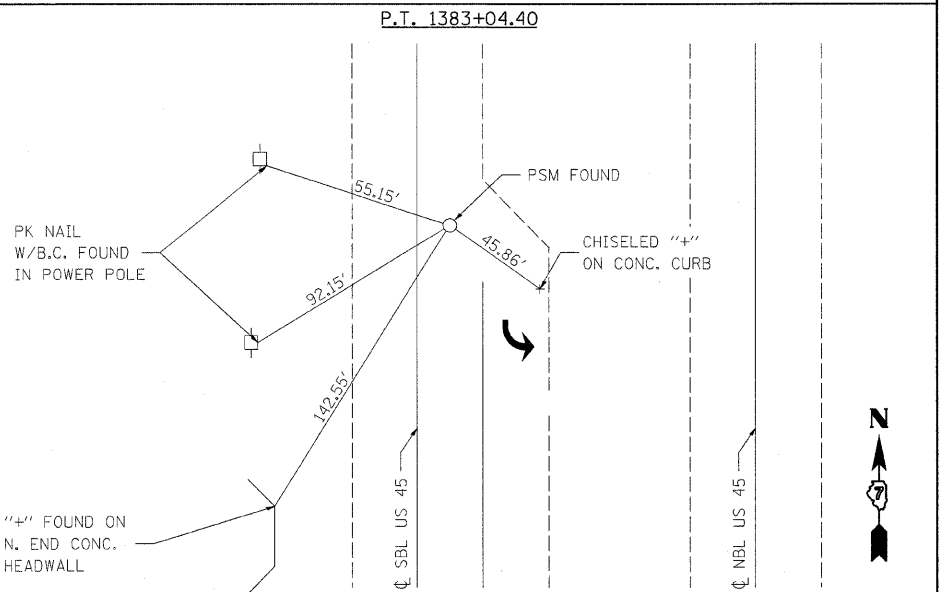
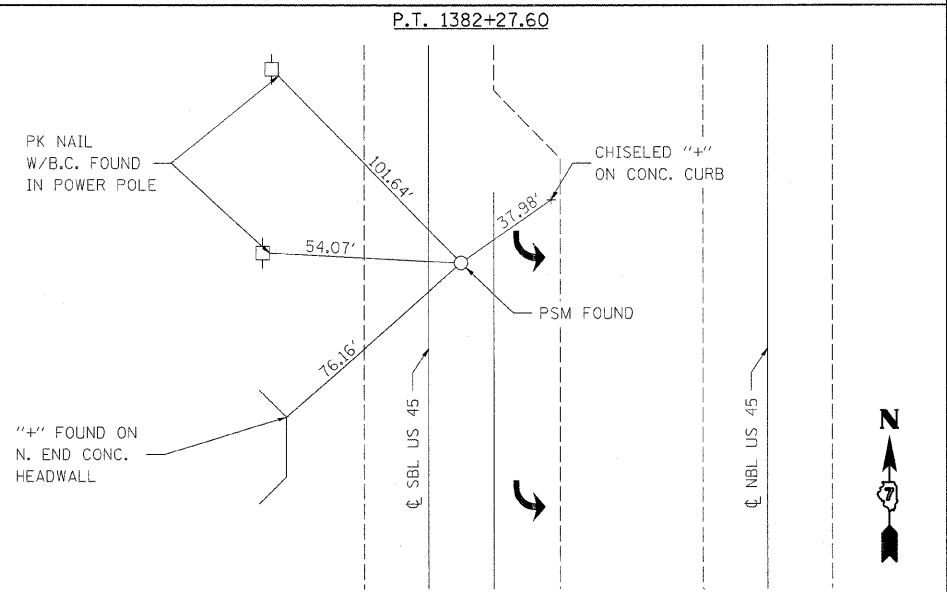
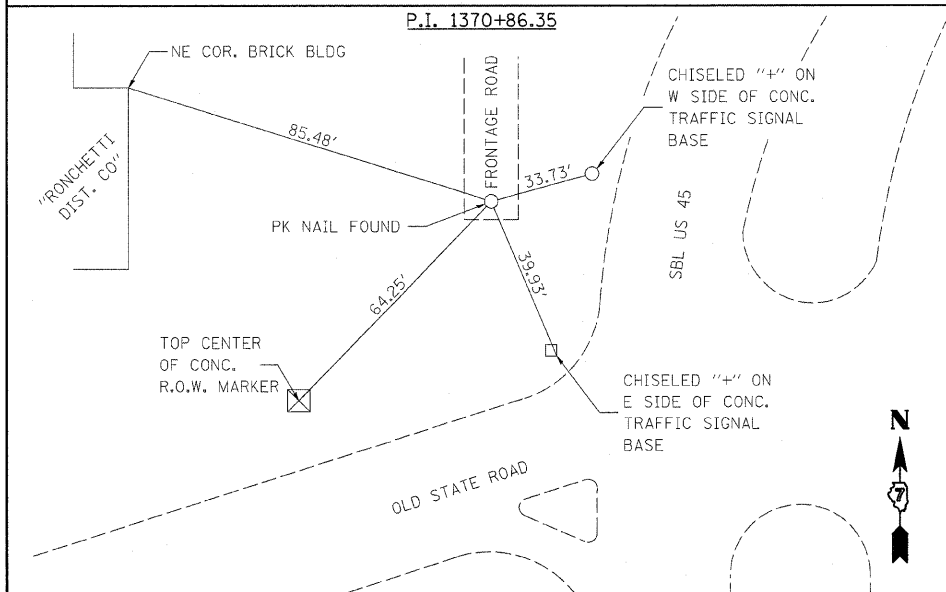
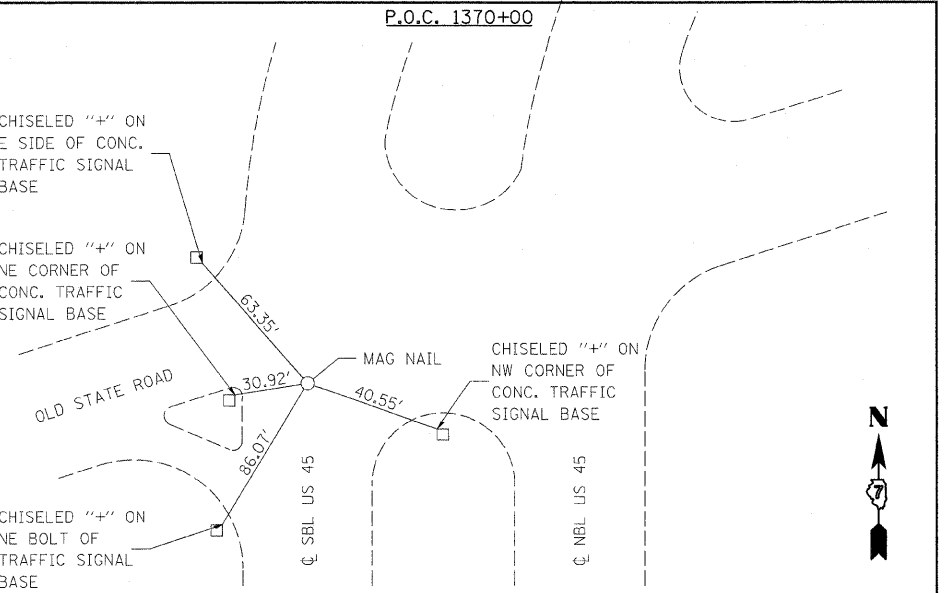
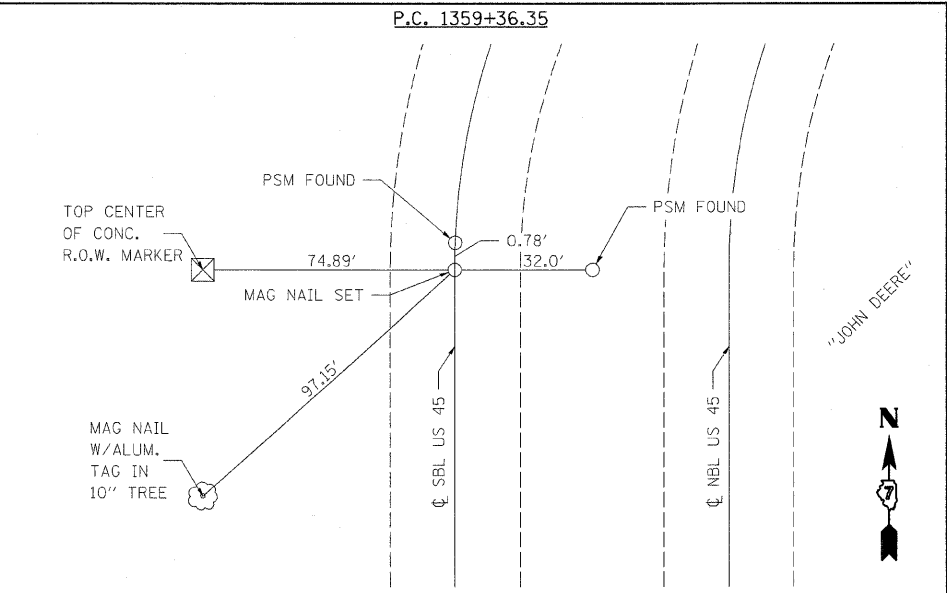
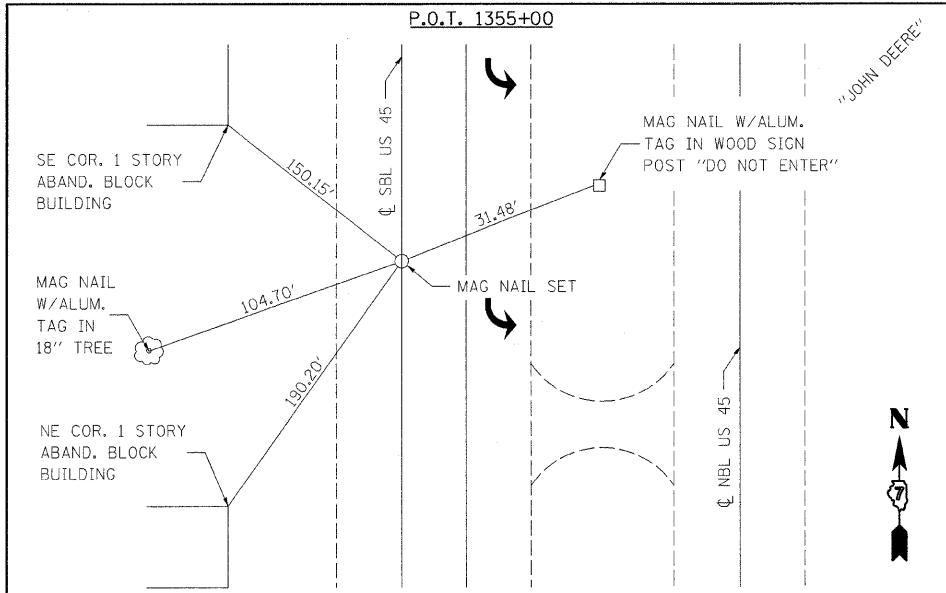
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL CROSS SECTIONS**

SCALE: N/A SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
824	(16-2,19X-2)RS-1,19B,19BR	•	52	8
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 74157	





FILE NAME =	USER NAME = swortzr	DESIGNED -	REVISED -
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PLOT DATE = 10/17/2008		DATE -	REVISED -

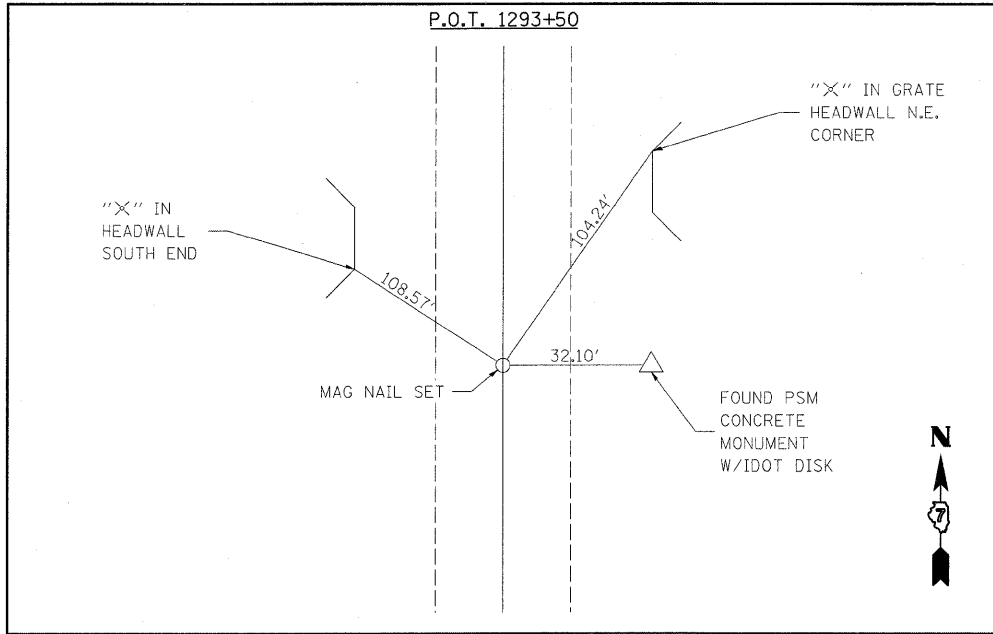
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT, TIES, AND BENCHMARK INFORMATION**

SCALE: N/A	SHEET NO. 1 OF 2 SHEETS	STA.	TO STA.
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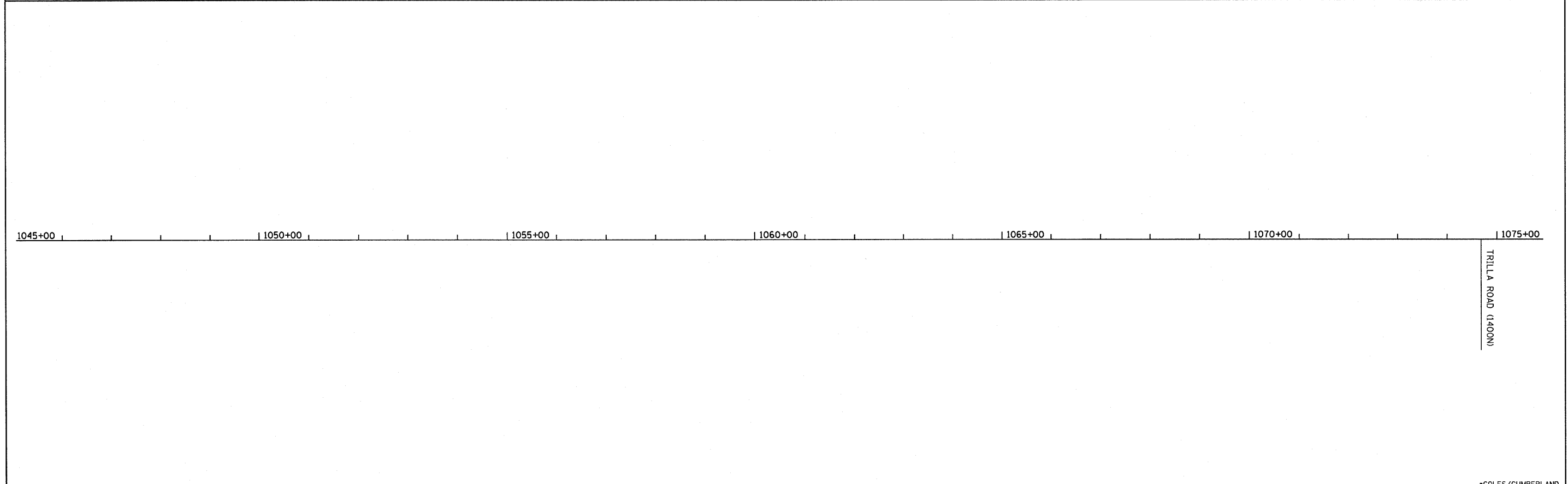
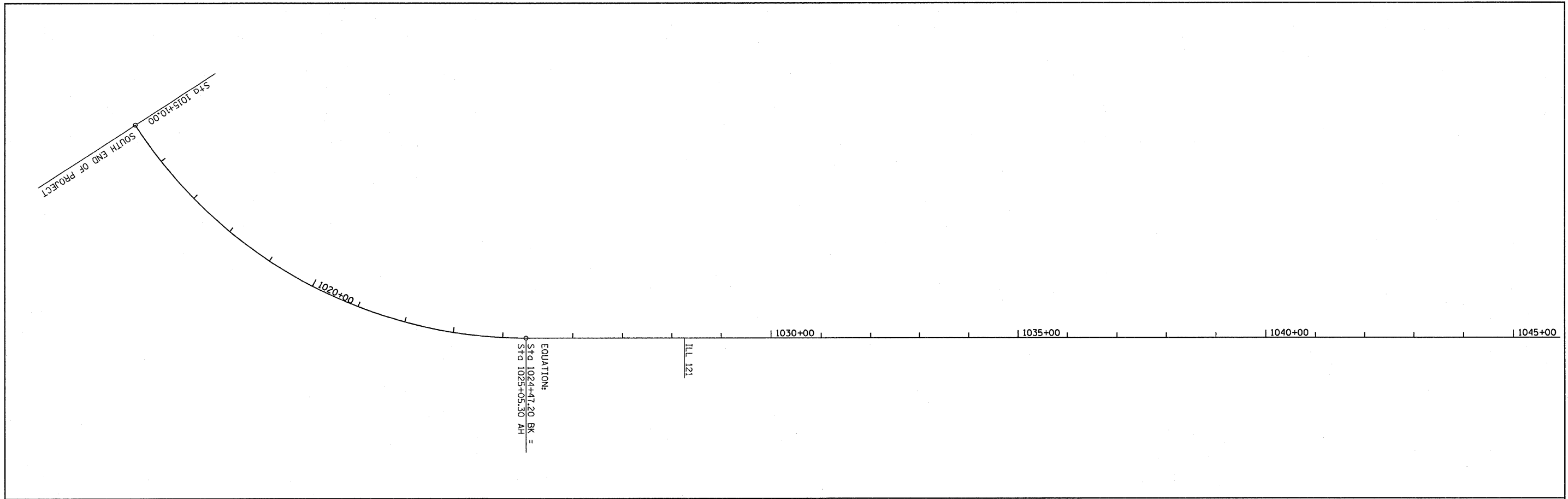
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
824	(16-2,19X-2)RS-1,19B,19BR		52	9
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 74157	

• COLES/CUMBERLAND



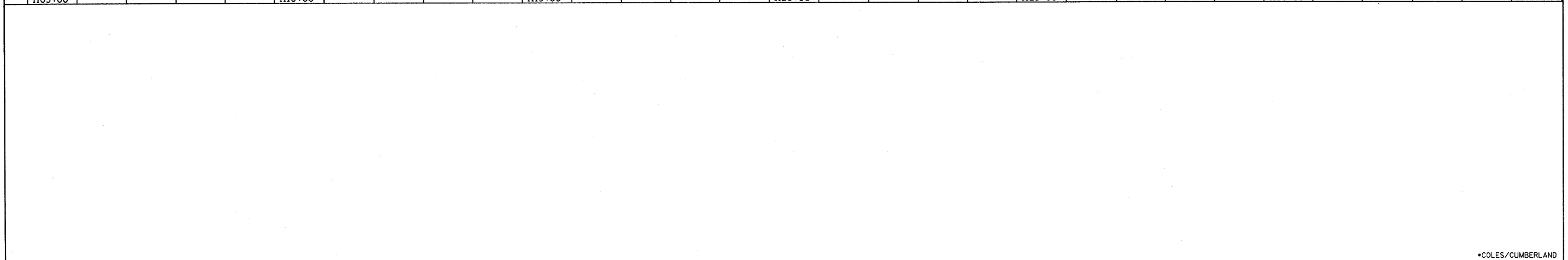
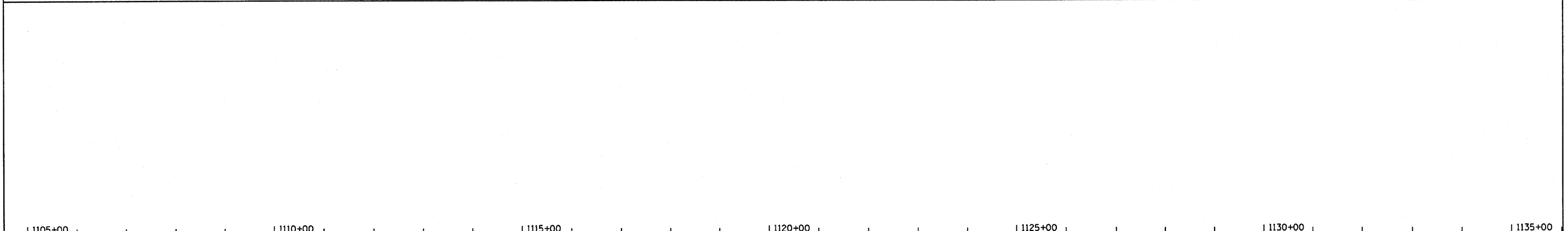
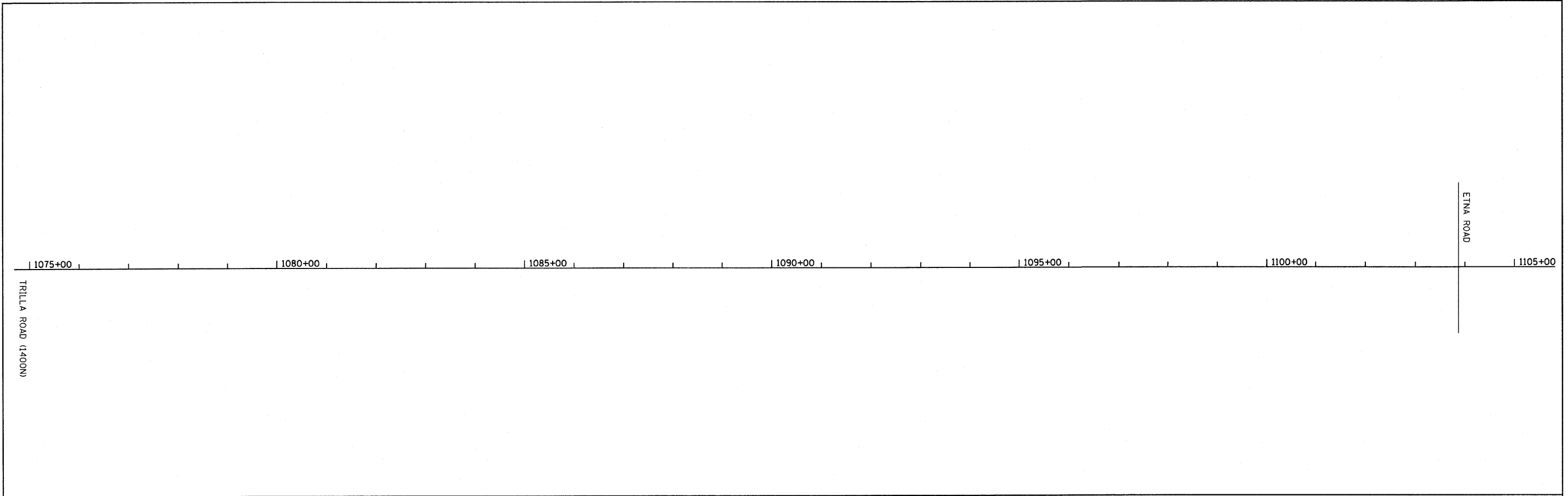
FURNISHING AND INSTALLING PROPERTY MARKERS		
STATION	OFFSET	DESCRIPTION
1312+63	0.15' E. OF CL OF SBL	PK NAIL
28+32	12.4' W. OF CL OF SBL	PK NAIL
1232+63	0'	VAULT
1179+61	0.12' LT	PK NAIL
1126+65	12.4' RT	VAULT
1100+43	18.5' RT	IRON PIN WITH CAP, PLS #3355, BURIED +/- 3"
1073+74	27' RT	PK NAIL
1073+94	27' RT	PK NAIL
1046+60	0.15' LT	PK NAIL

BENCHMARK INFORMATION		
BENCHMARK	ELEVATION	DESCRIPTION
4257-6	736.94	IDOT MONUMENT 0.18 MI S. OF INTERSECTION OF OLD STATE ROAD AND ROUTE 45 IN THE MEDIAN. 32' E OF SOUTHBOUND LANES CENTERLINE.
4257-7	726.63	CHISLED "□" ON THE N.W. CORNER OF EAST HEADWALL OF SN015-2006 STA 1380+26, 141.23' RT



FILE NAME =	USER NAME = hammen_je	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>STREET LOCATION MAP</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
at:\pwork\pvidot\hammen_je\dms35412\plop2.74157.dgn	PLOT SCALE = 100.0000' / IN.	DRAWN -	REVISED -			824	(16-2.19X-2)RS-1,19B,19BR	*	52	11	
	PLOT DATE = 10/17/2008	CHECKED -	REVISED -			CONTRACT NO. 74157					
		DATE -	REVISED -			SCALE: 1" = 200' SHEET NO. 1 OF 7 SHEETS STA. 1015+00 TO STA. 1075+00 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

\*COLES/CUMBERLAND



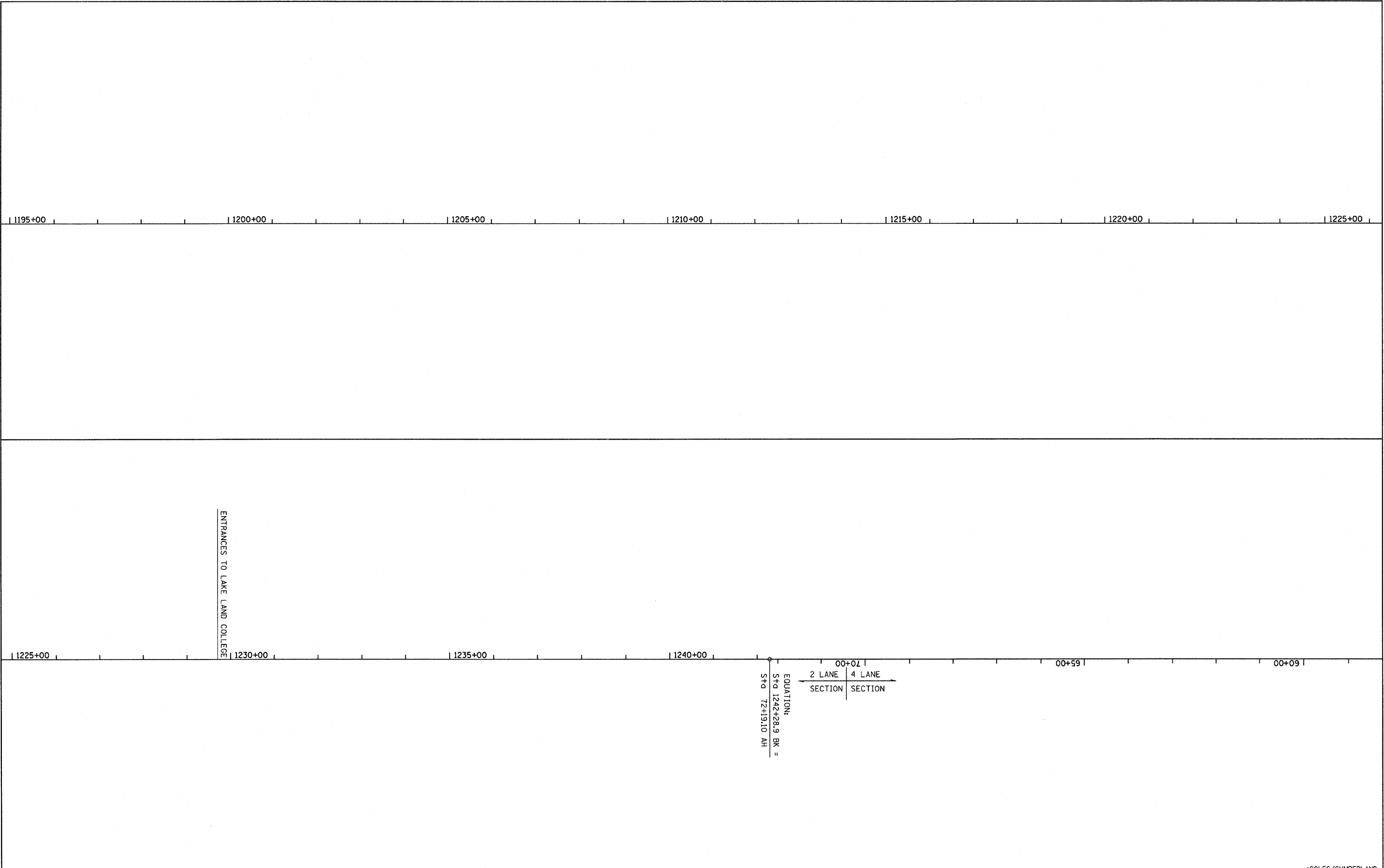
FILE NAME = <small>c:\pwork\pwork\hemmenje\dms35412\pl</small>		USER NAME = hemmenje <small>prop2_74157.dgn</small>	DESIGNED - DRAWN -	REVISED - REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>STREET LOCATION MAP</b>			F.A. RTE. 824	SECTION (16-2,19X-2)RS-1,19B,19BR	COUNTY •	TOTAL SHEETS 52	SHEET NO. 12
PLOT SCALE = 100.0000 ' / IN.		CHECKED - DATE -	REVISED - REVISED -	SCALE: 1" = 200'		SHEET NO. 2 OF 7 SHEETS	STA. 1075+00 TO STA. 1135+00	FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT		CONTRACT NO. 74157			
PLOT DATE = 10/17/2008		DATE -	REVISED -	*COLES/CUMBERLAND									

1135+00 1140+00 1145+00 1150+00 1155+00 1160+00 1165+00

1165+00 1170+00 1175+00 1180+00 1185+00 1190+00 1195+00

\*COLES/CUMBERLAND

FILE NAME =	USER NAME = hemmenje	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>STREET LOCATION MAP</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pw\work\p\dot\hemmenje\dms35412\plotprop2_74157.dgn	DRAWN -	REVISED -	824			(16-2,19X-2)RS-1,19B,19BR	*	52	13	
PLOT SCALE = 100.0000' / IN.	CHECKED -	REVISED -	CONTRACT NO. 74157							
PLOT DATE = 10/17/2008	DATE -	REVISED -	SCALE: 1" = 200' SHEET NO. 3 OF 7 SHEETS STA. 1135+00 TO STA. 1195+00							
						FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



1195+00 | 1200+00 | 1205+00 | 1210+00 | 1215+00 | 1220+00 | 1225+00

1225+00 | 1230+00 | 1235+00 | 1240+00 | 00+02 | 00+59 | 00+09

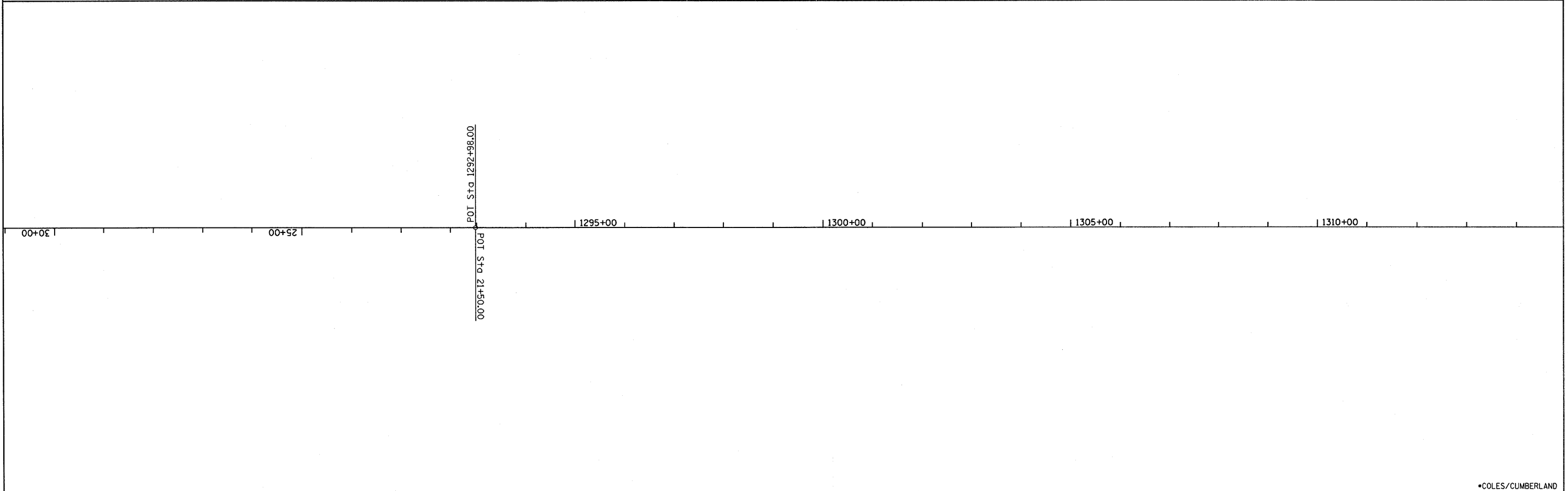
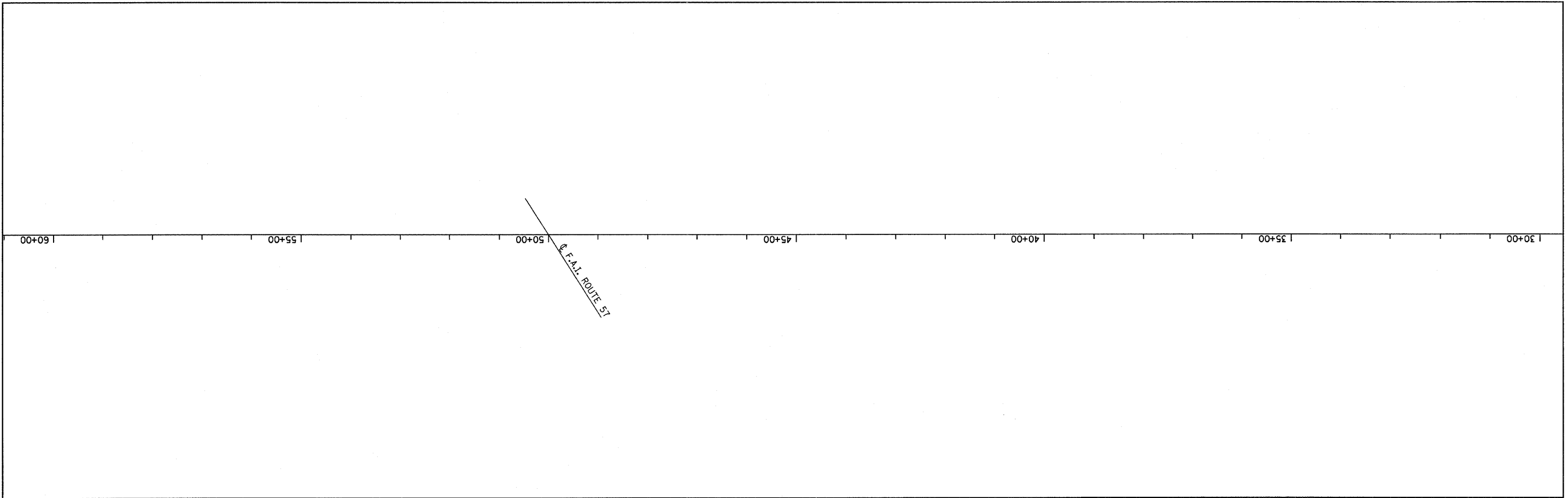
ENTRANCES TO LAKE LAND COLLEGE

EQUATION:  
 STA. 1242+28.9 BK =  
 STA. 72+19.10 AH

← 2 LANE SECTION | 4 LANE SECTION →

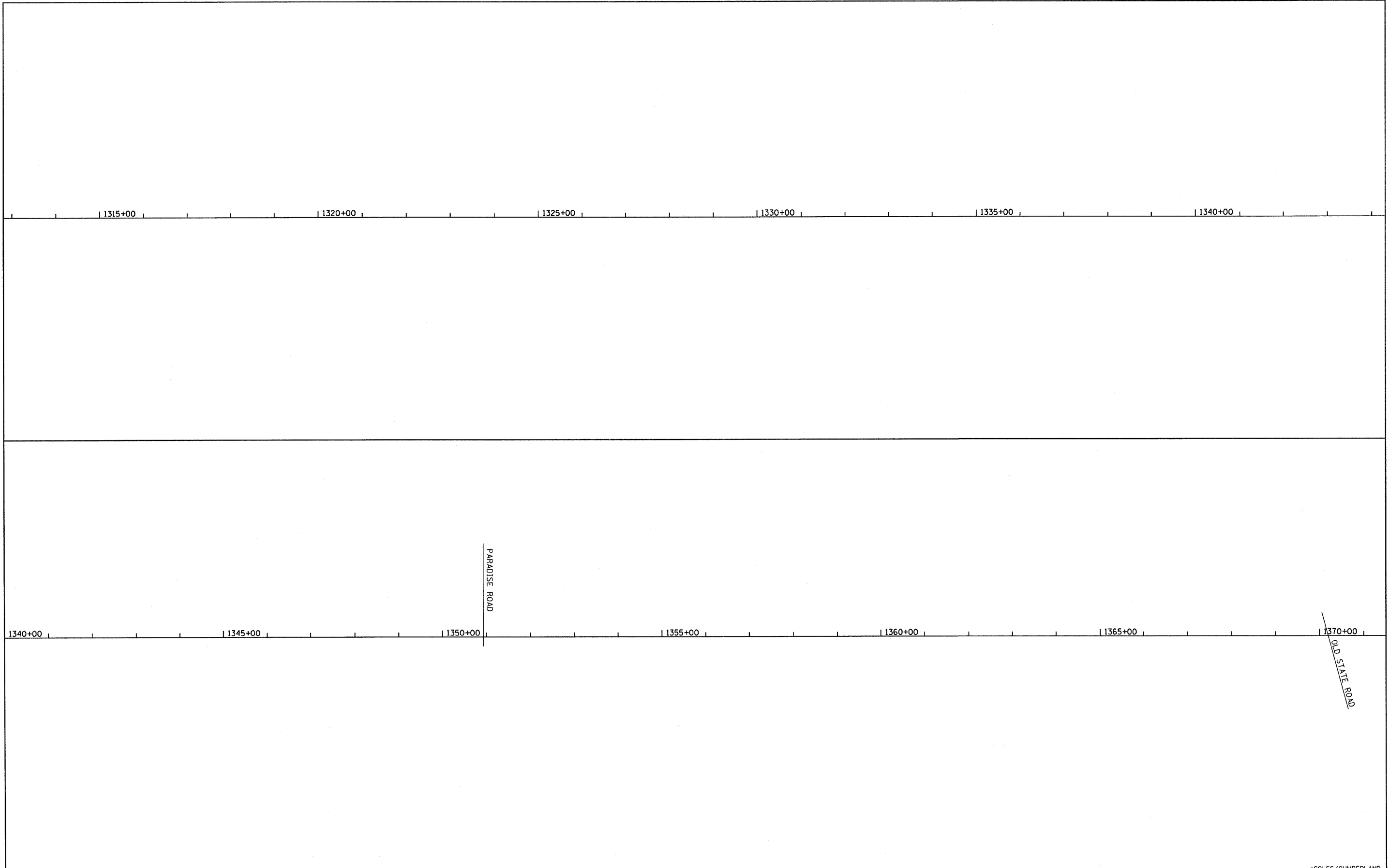
•COLES/CUMBERLAND

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PLOT SCALE = 100.0000' / IN.	CHECKED -	REVISED -	SCALE: 1" = 200'			SHEET NO. 4 OF 7 SHEETS	STA. 1195+00 TO STA. 59+00	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 74157			
PLOT DATE = 10/17/2008	DATE -	REVISED -											



FILE NAME =		USER NAME = hemman.je	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>STREET LOCATION MAP</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\pwork\dot\hemman.je\dms35412\plot\prop2.74157.dgn		DRAWN -	REVISED -	824					(16-2,19X-2)RS-1,198,198R	•	52	15	
PLOT SCALE = 100.0000' / IN.		CHECKED -	REVISED -	CONTRACT NO. 74157									
PLOT DATE = 10/17/2009		DATE -	REVISED -	SCALE: 1" = 200'					SHEET NO. 5 OF 7 SHEETS	STA. 60+00 TO STA. 1314+00	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	

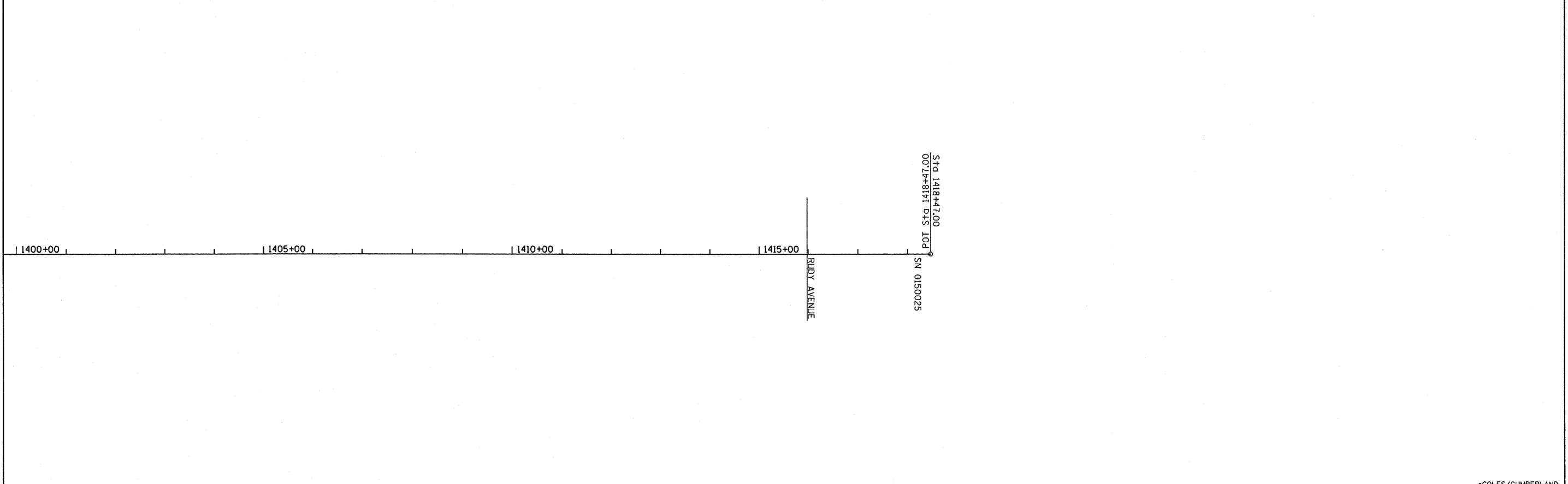
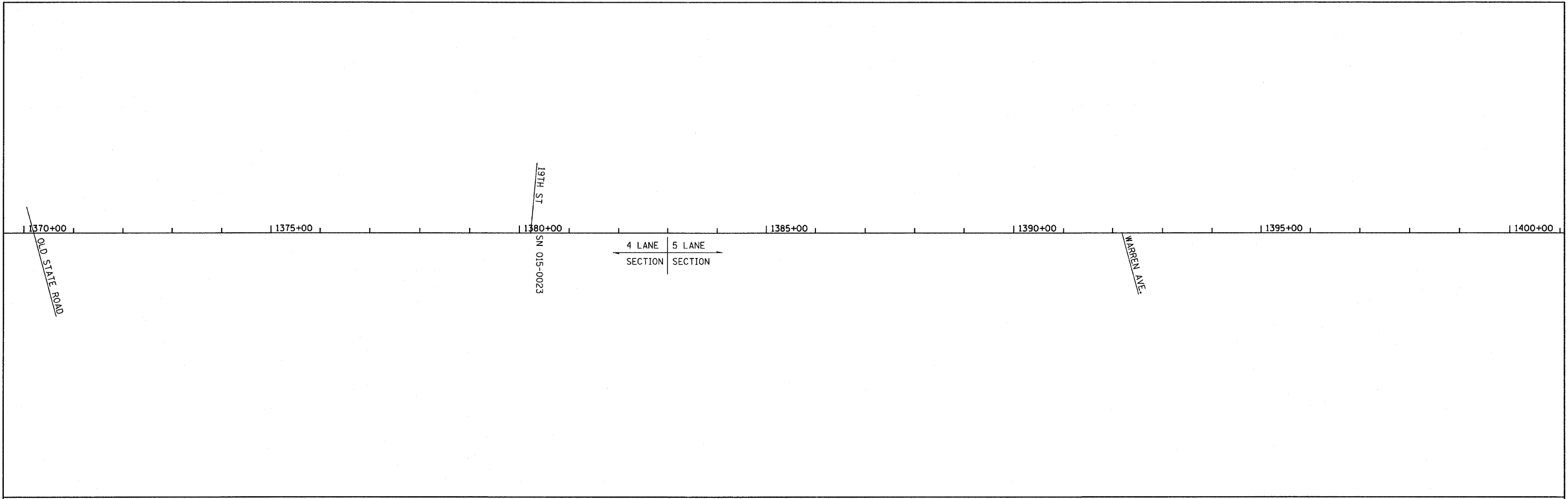
•COLES/CUMBERLAND



\*COLES/CUMBERLAND

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PLOT SCALE = 100.0000 ' / IN.		CHECKED -	REVISED -			SCALE: 1" = 200'	SHEET NO. 6 OF 7 SHEETS	STA. 1313+00	TO STA. 1370+00	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 74157
PLOT DATE = 10/17/2009		DATE -	REVISED -									





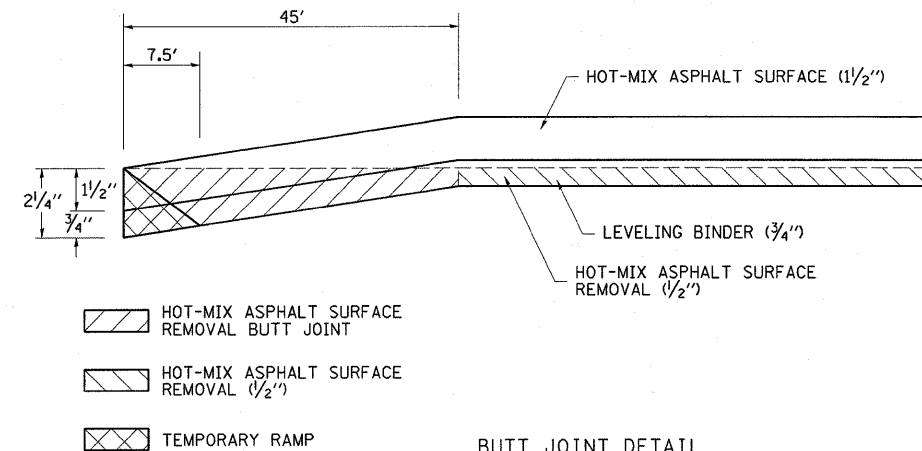
\*COLES/CUMBERLAND

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PLOT DATE = 10/17/2008		DATE -	REVISED -

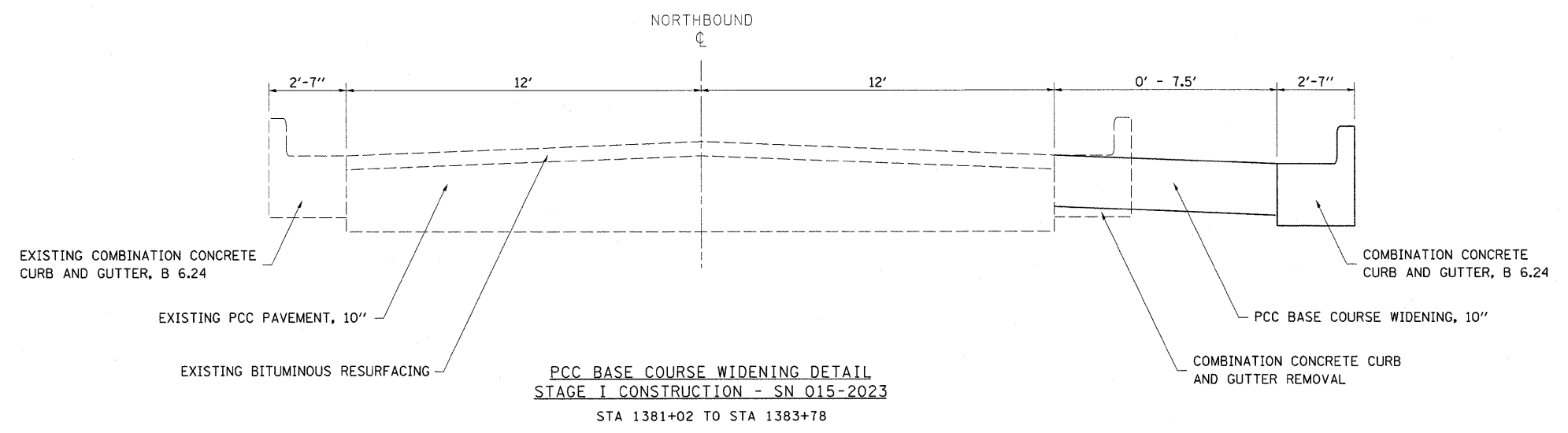
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STREET LOCATION MAP**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
824	(16-02,19X-2)RS-1,19B,19BR	*	52	17
CONTRACT NO. 74157				
SCALE: 1" = 200'		SHEET NO. 7 OF 7 SHEETS		STA. 1370+00 TO STA. 1418+47
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



**BUTT JOINT DETAIL**  
 STA 1015+10 TO STA 1015+55  
 STA 56+18 SE INTERSTATE RAMP  
 STA 56+52 SW INTERSTATE RAMP  
 STA 43+81 NW INTERSTATE RAMP  
 STA 43+48 NE INTERSTATE RAMP  
 STA 1369+61 WEST LEG OLD STATE ROAD  
 STA 1371+43 EAST LEG OLD STATE ROAD



**PCC BASE COURSE WIDENING DETAIL**  
**STAGE I CONSTRUCTION - SN 015-2023**  
 STA 1381+02 TO STA 1383+78

FILE NAME =	USER NAME = swartzw	DESIGNED -	REVISED -
o:\p\work\p\dot\swartzw\dms50899\shdet_74157.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
824	(16-2,19X-2)RS-1,19B,19BR		52	18

COLES/CUMBERLAND



PAVING SCHEDULE

STATION TO STATION	LENGTH FEET	PAVEMENT WIDTH FEET	AREA SQ YD	BITUMINOUS MATERIALS (PRIME COAT) GALLON	AGGREGATE (PRIME COAT) TON	HMA SURFACE COURSE, MIX "C", N70 TON	HMA SURFACE COURSE, MIX "D", N90 TON	LEVELING BINDER (MACHINE METHOD), N70 TON	LEVELING BINDER (MACHINE METHOD), N90 TON	HMA SURFACE REMOVAL - BUTT JOINT SQ YD	HMA SURFACE REMOVAL, 1/2 SQ YD	HMA SURFACE REMOVAL, 2 1/4 SQ YD	HMA SURFACE REMOVAL, VARIABLE DEPTH SQ YD	AGGREGATE SHOULDERS, TYPE B TON	TEMPORARY RAMP (SPECIAL) SQ YD	TEMPORARY RAMP SQ YD
67+21.00 TO 56+95.00	1026.0	36.0	4104.0	410.4	8.2	-	344.7	-	172.4	-	4104.0	-	-	69.3	-	-
56+95.00 TO 56+38.00	57.0	75.0	475.0	47.5	1.0	-	39.9	-	20.0	150.0	475.0	-	-	3.8	-	41.7
56+38.00 TO 55+13.00	125.0	53.0	736.1	73.6	1.5	-	61.8	-	30.9	-	736.1	-	-	8.4	-	-
55+13.00 TO 53+95.00	118.0	48.0	629.3	62.9	1.3	-	52.9	-	26.4	-	629.3	-	-	8.0	-	-
53+95.00 TO 44+57.00	938.0	36.0	3752.0	375.2	7.5	-	315.2	-	157.6	-	3752.0	-	-	63.3	-	-
44+57.00 TO 44+21.00	36.0	53.0	212.0	21.2	0.4	-	17.8	-	8.9	-	212.0	-	-	2.4	-	-
44+21.00 TO 43+57.00	64.0	88.0	625.8	62.6	1.3	-	52.6	-	26.3	180.0	625.8	-	-	4.3	-	50.0
43+57.00 TO 40+90.00	267.0	48.0	1424.0	142.4	2.8	-	119.6	-	59.8	-	1424.0	-	-	18.0	-	-
40+90.00 TO 28+77.00	1213.0	36.0	4852.0	485.2	9.7	-	407.6	-	203.8	-	4852.0	-	-	81.9	-	-
28+77.00 TO 28+00.00	77.0	45.0	385.0	38.5	0.8	-	32.3	-	16.2	-	385.0	-	-	5.2	-	-
28+00.00 TO 26+05.00	195.0	48.0	1040.0	104.0	2.1	-	87.4	-	43.7	-	1040.0	-	-	13.2	-	-
26+05.00 TO 24+78.00	127.0	42.0	592.7	59.3	1.2	-	49.8	-	24.9	-	592.7	-	-	8.6	-	-
24+78.00 TO 21+50.00	328.0	36.0	1312.0	131.2	2.6	-	110.2	-	55.1	-	1312.0	-	-	22.1	-	-
1292+98.00 TO 1296+10.00	312.0	36.0	1248.0	124.8	2.5	-	104.8	-	52.4	-	1248.0	-	-	21.1	-	-
1296+10.00 TO 1296+65.00	55.0	40.0	244.4	24.4	0.5	-	20.5	-	10.3	-	244.4	-	-	3.7	-	-
1296+65.00 TO 1297+24.50	59.5	55.0	363.6	36.4	0.7	-	30.5	-	15.3	-	363.6	-	-	4.0	-	-
1297+24.50 TO 1299+24.50	200.0	50.0	1111.1	111.1	2.2	-	93.3	-	46.7	-	1111.1	-	-	13.5	-	-
1299+24.50 TO 1301+15.00	190.5	46.0	973.7	97.4	1.9	-	81.8	-	40.9	-	973.7	-	-	12.9	-	-
1301+15.00 TO 1312+10.00	1095.0	40.0	4866.7	486.7	9.7	-	408.8	-	204.4	-	4866.7	-	-	73.9	-	-
1312+10.00 TO 1312+75.60	65.6	55.0	400.9	40.1	0.8	-	33.7	-	16.8	-	400.9	-	-	4.4	-	-
1312+75.60 TO 1314+75.60	200.0	52.0	1155.6	115.6	2.3	-	97.1	-	48.5	-	1155.6	-	-	13.5	-	-
1314+75.60 TO 1316+65.00	189.4	49.0	1031.2	103.1	2.1	-	86.6	-	43.3	-	1031.2	-	-	12.8	-	-
1316+65.00 TO 1325+76.00	911.0	40.0	4048.9	404.9	8.1	-	340.1	-	170.1	-	4048.9	-	-	61.5	-	-
1325+76.00 TO 1326+36.60	60.6	55.0	370.3	37.0	0.7	-	31.1	-	15.6	-	370.3	-	-	4.1	-	-
1326+36.60 TO 1328+56.60	220.0	52.0	1271.1	127.1	2.5	-	106.8	-	53.4	-	1271.1	-	-	14.9	-	-
1328+56.60 TO 1330+26.00	169.4	46.0	865.8	86.6	1.7	-	72.7	-	36.4	-	865.8	-	-	11.4	-	-
1330+26.00 TO 1338+80.00	854.0	40.0	3795.6	379.6	7.6	-	318.8	-	159.4	-	3795.6	-	-	57.6	-	-
1338+80.00 TO 1339+49.50	69.5	55.0	424.7	42.5	0.8	-	35.7	-	17.8	-	424.7	-	-	4.7	-	-
1339+49.50 TO 1341+49.50	200.0	52.0	1155.6	115.6	2.3	-	97.1	-	48.5	-	1155.6	-	-	13.5	-	-
1341+49.50 TO 1343+40.00	190.5	46.0	973.7	97.4	1.9	-	81.8	-	40.9	-	973.7	-	-	12.9	-	-
1343+40.00 TO 1353+56.00	1016.0	40.0	4515.6	451.6	9.0	-	379.3	-	189.7	-	4515.6	-	-	68.6	-	-
1353+56.00 TO 1354+24.50	68.5	55.0	418.6	41.9	0.8	-	35.2	-	17.6	-	418.6	-	-	4.6	-	-
1354+24.50 TO 1356+24.50	200.0	52.0	1155.6	115.6	2.3	-	97.1	-	48.5	-	1155.6	-	-	13.5	-	-
1356+24.50 TO 1358+18.00	193.5	46.0	989.0	98.9	2.0	-	83.1	-	41.5	-	989.0	-	-	13.1	-	-
1358+18.00 TO 1368+81.00	1063.0	40.0	4724.4	472.4	9.4	-	396.9	-	198.4	-	4724.4	-	-	71.8	-	-
1368+81.00 TO 1369+56.00	75.0	59.0	491.7	49.2	1.0	-	41.3	-	20.7	-	491.7	-	-	5.1	-	-
1369+56.00 TO 1369+98.00	42.0	143.0	667.3	66.7	1.3	-	56.1	-	28.0	225.0	667.3	-	-	2.8	-	62.5
1369+98.00 TO 1370+62.00	64.0	100.0	711.1	71.1	1.4	-	59.7	-	29.9	-	711.1	-	-	4.3	-	-
1370+62.00 TO 1371+17.00	55.0	65.0	397.2	39.7	0.8	-	33.4	-	16.7	-	397.2	-	-	3.7	-	-
1371+17.00 TO 1373+98.00	281.0	52.0	1623.6	162.4	3.2	-	136.4	-	68.2	-	1623.6	-	-	19.0	-	-
1373+98.00 TO 1375+50.00	152.0	46.0	776.9	77.7	1.6	-	65.3	-	32.6	-	776.9	-	-	10.3	-	-
1375+50.00 TO 1379+14.00	364.0	40.0	1617.8	161.8	3.2	-	135.9	-	67.9	-	1617.8	-	-	27.6	-	-
1379+14.00 TO 1379+59.00	45.0	40.0	200.0	20.0	0.4	-	16.8	-	8.4	-	-	-	200.0	-	-	-
1379+59.00 TO 1380+19.00	60.0	55.0	366.7	36.7	0.7	-	30.8	-	15.4	-	-	366.7	-	-	-	-
1380+19.00 TO 1381+15.00	96.0	78.0	832.0	83.2	1.3	-	54.4	-	27.2	-	-	647.1	-	-	-	174.5
1381+15.00 TO 1381+89.00	74.0	52.0	427.6	42.7	0.6	-	25.3	-	12.7	-	-	261.0	-	-	-	26.0
1381+89.00 TO 1382+62.00	73.0	36.0	292.0	29.2	0.6	-	24.5	-	12.3	-	-	292.0	-	-	-	-
1382+62.00 TO 1383+92.00	130.0	30.0	433.3	43.3	0.9	-	36.4	-	18.2	-	-	433.3	-	-	-	-
TOTALS	13820	2509	65537	6523	130	0	5479	0	2740	555	62986	2000	200	904	0	355

• COLES/CUMBERLAND

FILE NAME =	USER NAME = swartzw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVING SCHEDULE LEFT SECTION (SB)</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\pwork\swartzw\dms52699\shetch_74157.dgn		DRAWN -	REVISED -		824	(16-2,19X-2)RS-1,19B,19BR	•	52	20				
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -		SCALE: N/A SHEET NO. OF SHEETS STA. TO STA.				CONTRACT NO. 74157				
PLOT DATE = 10/17/2008		DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT								

PAVING SCHEDULE

STATION TO STATION	LENGTH	PAVEMENT WIDTH	AREA	BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE (PRIME COAT)	HMA SURFACE COURSE, MIX "C", N70	HMA SURFACE COURSE, MIX "D", N90	LEVELING BINDER (MACHINE METHOD), N70	LEVELING BINDER (MACHINE METHOD), N90	HMA SURFACE REMOVAL - BUTT JOINT	HMA SURFACE REMOVAL, 1/2	HMA SURFACE REMOVAL, 2 1/4	HMA SURFACE REMOVAL, VARIABLE DEPTH	AGGREGATE SHOULDERS, TYPE B	TEMPORARY RAMP (SPECIAL)	TEMPORARY RAMP
1015+10.00 TO 1020+45.00	535.0	27.0	1605.0	160.5	3.2	134.8	-	67.4	-	135.0	1605.0	-	-	36.1	-	37.5
1020+45.00 TO 1024+47.20	402.2	33.0	1474.7	147.5	2.9	123.9	-	61.9	-	-	1474.7	-	-	27.1	-	-
1025+05.30 TO 1031+20.00	614.7	39.0	2663.7	266.4	5.3	223.8	-	111.9	-	-	2663.7	-	-	41.5	-	-
1031+20.00 TO 1034+50.00	330.0	33.0	1210.0	121.0	2.4	101.6	-	50.8	-	-	1210.0	-	-	22.3	-	-
1034+50.00 TO 1218+55.00	18405.0	27.0	55215.0	5521.5	110.4	4638.1	-	2319.0	-	-	55215.0	-	-	1242.3	-	-
1218+55.00 TO 1226+95.00	840.0	39.0	3640.0	364.0	7.3	305.8	-	152.9	-	-	3640.0	-	-	56.7	-	-
1226+95.00 TO 1242+28.90	1533.9	51.0	8692.1	869.2	17.4	-	730.1	-	365.1	-	8692.1	-	-	103.5	-	-
72+19.10 TO 68+76.00	343.1	54.5	2077.7	207.8	4.2	-	174.5	-	87.3	-	2077.7	-	-	23.2	-	-
1383+92.00 TO 1387+00.00	308.0	69.0	2361.3	236.1	4.7	-	198.4	-	99.2	-	-	2361.3	-	-	132.0	-
1387+00.00 TO 1415+40.00	2840.0	60.0	18933.3	1893.3	37.9	-	1590.4	-	795.2	-	-	18933.3	-	-	918.2	-
1415+40.00 TO 1415+67.00	27.0	99.0	297.0	29.7	0.6	-	24.9	-	12.5	-	-	297.0	-	-	-	-
1415+67.00 TO 1416+16.00	49.0	145.0	789.4	78.9	1.6	-	66.3	-	33.2	-	-	789.4	-	-	-	118.1
1416+16.00 TO 1416+47.00	31.0	98.0	337.6	33.8	0.7	-	28.4	-	14.2	-	-	337.6	-	-	-	-
1416+47.00 TO 1418+04.00	157.0	60.0	1046.7	104.7	2.1	-	87.9	-	44.0	-	-	1053.3	-	-	87.1	83.3
1418+04.00 TO 1418+26.00	22.0	64.0	156.4	-	-	-	35.0	-	-	-	-	-	-	-	-	-
1418+26.00 TO 1418+47.00	21.0	60.0	140.0	14.7	0.3	-	11.8	-	5.9	-	-	146.7	-	-	-	166.7
TOTALS	26459	959	100640	10049	201	5528	2948	2764	1456	135	76578	23919	0	1553	1137	405

COLES/CUMBERLAND

FILE NAME =	USER NAME = swartzw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVING SCHEDULE COMBINED SECTION</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ci:\pw\work\pwidot\swartzw\dms58899\shch_74157.dgn		DRAWN -	REVISED -		824	(16-2.19X-2)RS-1,19B,19BR		52	21			
PLOT SCALE = 50,0000' / 1"		CHECKED -	REVISED -		SCALE: N/A SHEET NO. OF SHEETS STA. TO STA.			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
PLOT DATE = 10/17/2008		DATE -	REVISED -					CONTRACT NO. 74157				



PAVEMENT MARKING SCHEDULE

STATION TO STATION	LENGTH	SHORT TERM PAVEMENT MARKING	WORK ZONE PAVEMENT MARKING REMOVAL	URETHANE PAVEMENT MARKING - LINE 4"	TEMPORARY PAVEMENT MARKING - LINE 4"	URETHANE PAVEMENT MARKING - LINE 6"	TEMPORARY PAVEMENT MARKING - LINE 6"	URETHANE PAVEMENT MARKING - LINE 12"	TEMPORARY PAVEMENT MARKING - LINE 12"	URETHANE PAVEMENT MARKING - LINE 24"	TEMPORARY PAVEMENT MARKING - LINE 24"	URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	RAISED REFLECTIVE PAVEMENT MARKER
68+76.00 TO 67+21.00	155.0	86.8	7.2	348.8	348.8	-	-	-	-	-	-	-	-	5.8
67+21.00 TO 56+95.00	1026.0	738.7	61.6	2308.5	2308.5	-	-	-	-	-	-	-	-	12.8
56+95.00 TO 56+38.00	57.0	41.0	3.4	102.3	102.3	-	-	-	-	38.0	38.0	-	-	0.7
56+38.00 TO 55+13.00	125.0	113.2	9.4	221.3	221.3	108.0	108.0	32.0	32.0	-	-	15.6	15.6	4.3
55+13.00 TO 53+95.00	118.0	132.2	11.0	265.5	265.5	118.0	118.0	5.0	5.0	-	-	31.2	31.2	4.4
53+95.00 TO 44+57.00	938.0	675.4	56.3	2110.5	2110.5	-	-	8.0	8.0	-	-	-	-	11.7
44+57.00 TO 44+21.00	36.0	20.2	1.7	81.0	81.0	-	-	41.0	41.0	-	-	-	-	0.5
44+21.00 TO 43+57.00	64.0	35.8	3.0	79.0	79.0	-	-	-	-	14.0	14.0	-	-	0.8
43+57.00 TO 40+90.00	267.0	296.2	24.7	600.8	600.8	260.0	260.0	-	-	-	-	46.8	46.8	9.8
40+90.00 TO 28+77.00	1213.0	873.4	72.8	2672.3	2672.3	-	-	-	-	-	-	-	-	15.2
28+77.00 TO 28+00.00	77.0	43.1	3.6	0.0	0.0	4.0	4.0	-	-	92.0	92.0	-	-	1.0
28+00.00 TO 26+05.00	195.0	140.4	11.7	438.8	438.8	195.0	195.0	-	-	-	-	46.8	46.8	7.3
26+05.00 TO 24+78.00	127.0	91.4	7.6	285.8	285.8	-	-	-	-	-	-	-	-	1.6
24+78.00 TO 21+50.00	328.0	236.2	19.7	738.0	738.0	-	-	-	-	-	-	-	-	4.1
1292+98.00 TO 1296+10.00	312.0	224.6	18.7	702.0	702.0	-	-	-	-	-	-	-	-	3.9
1296+10.00 TO 1296+65.00	55.0	39.6	3.3	123.8	123.8	-	-	-	-	-	-	-	-	0.7
1296+65.00 TO 1297+24.50	59.5	33.3	2.8	97.4	97.4	-	-	-	-	-	-	-	-	0.7
1297+24.50 TO 1299+24.50	200.0	224.0	18.7	450.0	450.0	200.0	200.0	-	-	-	-	46.8	46.8	7.5
1299+24.50 TO 1301+15.00	190.5	137.2	11.4	428.6	428.6	-	-	-	-	-	-	-	-	2.4
1301+15.00 TO 1312+10.00	1095.0	788.4	65.7	2463.8	2463.8	-	-	-	-	-	-	-	-	13.7
1312+10.00 TO 1312+75.60	65.6	36.7	3.1	109.0	109.0	-	-	-	-	-	-	-	-	0.8
1312+75.60 TO 1314+75.60	200.0	224.0	18.7	450.0	450.0	200.0	200.0	-	-	-	-	46.8	46.8	7.5
1314+75.60 TO 1316+65.00	189.4	136.4	11.4	426.2	426.2	-	-	-	-	-	-	-	-	2.4
1316+65.00 TO 1325+76.00	911.0	655.9	54.7	2049.8	2049.8	-	-	-	-	-	-	-	-	11.4
1325+76.00 TO 1326+36.60	60.6	33.9	2.8	100.8	100.8	-	-	-	-	-	-	-	-	0.8
1326+36.60 TO 1328+56.60	220.0	246.4	20.5	495.0	495.0	220.0	220.0	-	-	-	-	46.8	46.8	8.3
1328+56.60 TO 1330+26.00	169.4	122.0	10.2	381.2	381.2	-	-	-	-	-	-	-	-	2.1
1330+26.00 TO 1338+80.00	854.0	614.9	51.2	1921.5	1921.5	-	-	-	-	-	-	-	-	10.7
1338+80.00 TO 1339+49.50	69.5	38.9	3.2	124.9	124.9	-	-	-	-	-	-	-	-	0.9
1339+49.50 TO 1341+49.50	200.0	224.0	18.7	450.0	450.0	200.0	200.0	-	-	-	-	46.8	46.8	7.5
1341+49.50 TO 1343+40.00	190.5	137.2	11.4	428.6	428.6	-	-	-	-	-	-	-	-	2.4
1343+40.00 TO 1353+56.00	1016.0	731.5	61.0	2286.0	2286.0	-	-	-	-	-	-	-	-	12.7
1353+56.00 TO 1354+24.50	68.5	38.4	3.2	118.6	118.6	-	-	-	-	-	-	-	-	0.9
1354+24.50 TO 1356+24.50	200.0	224.0	18.7	450.0	450.0	200.0	200.0	-	-	-	-	46.8	46.8	7.5
1356+24.50 TO 1358+18.00	193.5	139.3	11.6	435.4	435.4	-	-	-	-	-	-	-	-	2.4
1358+18.00 TO 1368+81.00	1063.0	765.4	63.8	2391.8	2391.8	-	-	-	-	-	-	-	-	14.7
1368+81.00 TO 1369+56.00	75.0	54.0	4.5	188.8	188.8	-	-	-	-	-	-	-	-	1.5
1369+56.00 TO 1369+98.00	42.0	52.7	4.4	411.5	411.5	-	-	170.0	170.0	18.0	18.0	41.6	41.6	0.9
1369+98.00 TO 1370+62.00	64.0	24.8	2.1	225.0	225.0	-	-	-	-	12.0	12.0	-	-	0.5
1370+62.00 TO 1371+17.00	55.0	55.7	4.6	98.8	98.8	55.0	55.0	-	-	53.0	53.0	53.1	53.1	1.5
1371+17.00 TO 1373+98.00	281.0	287.5	24.0	632.3	632.3	213.0	213.0	-	-	-	-	62.4	62.4	8.8
1373+98.00 TO 1375+50.00	152.0	109.4	9.1	342.0	342.0	-	-	-	-	-	-	-	-	1.9
1375+50.00 TO 1379+14.00	364.0	262.1	60.8	819.0	819.0	-	-	-	-	-	-	-	-	4.6
1379+14.00 TO 1379+59.00	45.0	32.4	17.7	101.3	101.3	-	-	-	-	-	-	-	-	0.6
1379+59.00 TO 1380+19.00	60.0	43.2	23.6	75.0	75.0	-	-	-	-	-	-	-	-	0.8
1380+19.00 TO 1381+15.00	96.0	53.8	69.2	24.0	24.0	-	-	-	-	-	-	-	-	1.7
1381+15.00 TO 1381+89.00	74.0	59.2	78.9	18.5	18.5	-	-	-	-	-	-	-	-	2.8
1381+89.00 TO 1382+62.00	73.0	58.4	77.9	18.3	18.3	-	-	-	-	-	-	46.8	46.8	2.7
1382+62.00 TO 1383+92.00	130.0	52.0	130.3	32.5	32.5	-	-	-	-	-	-	-	-	1.6
TOTALS	13820	10485	1286.00	30123	30123	1973	1973	256	256	227	227	578	578	232

• COLES/CUMBERLAND

FILE NAME =	USER NAME = swartzw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT MARKING SCHEDULE LEFT SECTION (SB)</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\npw\work\pwsdot\swartzw\dms50699\sh...	ch_74157.dgn	DRAWN -	REVISED -			824	(16-2,19X-2)RS-1,19B,19BR	•	52	23	
PLOT SCALE = 50,0000' / IN.	CHECKED -	REVISED -	SCALE: N/A			SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 74157			
PLOT DATE = 10/17/2008	DATE -	REVISED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT								

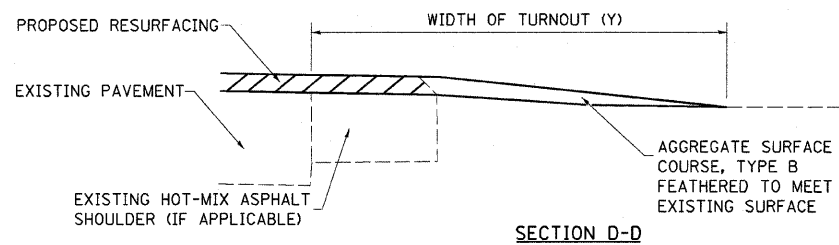
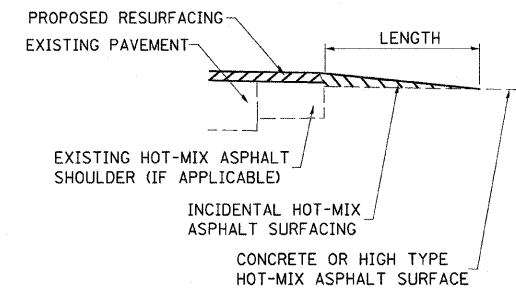
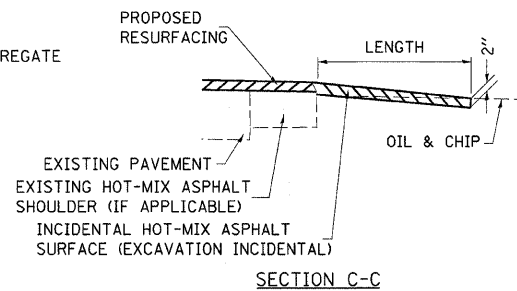
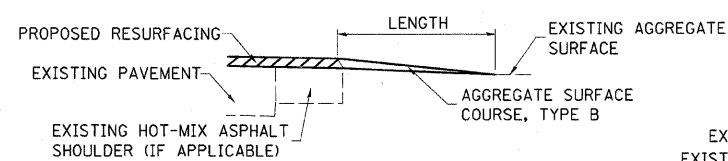
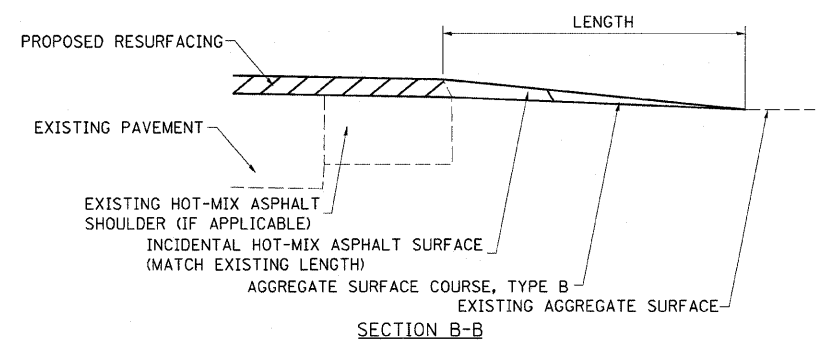
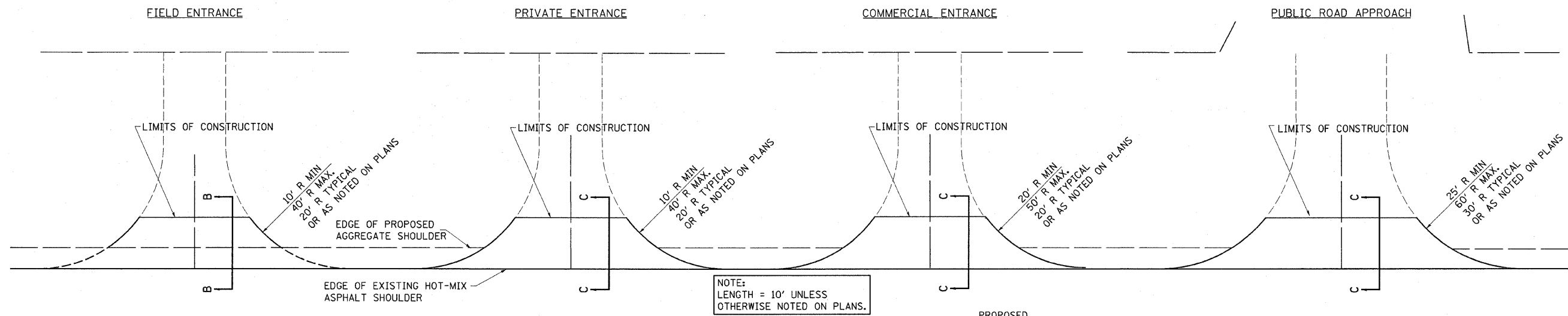
PAVEMENT MARKING SCHEDULE

STATION TO STATION	LENGTH	SHORT TERM PAVEMENT MARKING	WORK ZONE PAVEMENT MARKING REMOVAL	URETHANE PAVEMENT MARKING - LINE 4"	TEMPORARY PAVEMENT MARKING - LINE 4"	URETHANE PAVEMENT MARKING - LINE 6"	TEMPORARY PAVEMENT MARKING - LINE 6"	URETHANE PAVEMENT MARKING - LINE 12"	TEMPORARY PAVEMENT MARKING - LINE 12"	URETHANE PAVEMENT MARKING - LINE 24"	TEMPORARY PAVEMENT MARKING - LINE 24"	URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	RAISED REFLECTIVE PAVEMENT MARKER
1015+10.00 TO 1020+45.00	535.0	214.0	17.8	2033.5	2033.5	-	-	-	-	-	-	-	-	11.2
1020+45.00 TO 1024+47.20	402.2	160.9	13.4	2413.2	2413.2	-	-	85.0	85.0	-	-	-	-	20.1
1025+05.30 TO 1031+20.00	614.7	313.9	26.2	3041.2	3041.2	170.0	170.0	133.5	133.5	-	-	31.2	31.2	32.1
1031+20.00 TO 1034+50.00	330.0	132.0	11.0	1980.0	1980.0	-	-	74.0	74.0	-	-	-	-	16.5
1034+50.00 TO 1218+55.00	18405.0	7362.0	613.5	44447.3	44447.3	-	-	-	-	-	-	-	-	234.6
1218+55.00 TO 1226+95.00	840.0	336.0	28.0	4870.0	4870.0	-	-	187.0	187.0	-	-	-	-	42.0
1226+95.00 TO 1242+28.90	1533.9	1328.7	110.7	7532.1	7532.1	892.9	892.9	330.0	330.0	-	-	171.6	171.6	100.9
72+19.10 TO 68+76.00	343.1	521.5	43.5	1886.2	1886.2	135.1	135.1	15.0	15.0	-	-	15.6	15.6	14.4
1383+92.00 TO 1387+00.00	308.0	492.8	246.4	924.0	924.0	-	-	-	-	-	-	31.2	31.2	23.1
1387+00.00 TO 1415+40.00	2840.0	4544.0	941.3	8520.0	8520.0	-	-	-	-	-	-	358.8	358.8	213.0
1415+40.00 TO 1415+67.00	27.0	-	-	-	-	39.0	39.0	-	-	17.0	17.0	-	-	2.0
1415+67.00 TO 1416+16.00	49.0	-	-	20.0	20.0	196.0	196.0	42.0	42.0	63.0	63.0	-	-	3.7
1416+16.00 TO 1416+47.00	31.0	-	-	-	-	158.0	158.0	-	-	-	-	-	-	2.3
1416+47.00 TO 1418+05.00	158.0	252.8	21.1	474.0	474.0	-	-	-	-	-	-	31.2	31.2	11.9
1418+05.00 TO 1418+25.00	20.0	32.0	2.7	60.0	60.0	-	-	-	-	-	-	-	-	1.5
1418+25.00 TO 1418+47.00	22.0	35.2	2.9	66.0	66.0	-	-	-	-	-	-	-	-	1.7
<b>TOTALS</b>	<b>26459</b>	<b>15726</b>	<b>2079</b>	<b>78267</b>	<b>78267</b>	<b>1591</b>	<b>1591</b>	<b>867</b>	<b>867</b>	<b>80</b>	<b>80</b>	<b>640</b>	<b>640</b>	<b>731</b>

• COLES/CUMBERLAND

FILE NAME =	USER NAME = swartzw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT MARKING SCHEDULE COMBINED SECTION</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
c:\pw\work\pwidot\swartzw\dms50699\sh...	ch_74157.dgn	DRAWN -	REVISED -		SCALE: N/A	SHEET NO.	OF	SHEETS	STA.	TO STA.	824	(16-2,19X-2)RS-1,19B,19BR	•	52	24
PLOT SCALE = 50,0000' / IN.	CHECKED -	REVISED -	REVISED -						CONTRACT NO. 74157						
PLOT DATE = 10/17/2008	DATE -	REVISED -	REVISED -						FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						





**TYPICAL SECTION AT MAILBOX TURNOUT**  
NOTE: SEE STANDARD 406201 FOR MAILBOX TURNOUT DETAILS

**NOTES**

THE COST OF THE ASPHALT MATERIALS, AND AGGREGATE (PRIME COAT) FOR ENTRANCES AND PUBLIC ROADS AND APPROACHES SHALL BE INCLUDED IN THE PAY ITEM INCIDENTAL HOT-MIX ASPHALT SURFACING.

THE COST OF EXCAVATION IS INCLUDED IN THE PAY ITEM INCIDENTAL HOT-MIX ASPHALT SURFACING.

IF THERE IS NOT EXISTING HOT-MIX ASPHALT SHOULDER THEN THE ENTRANCE TAPER STARTS AT THE EDGE OF EXISTING PAVEMENT.

THE COST OF THE BITUMINOUS MATERIALS AND AGGREGATE (PRIME COAT) FOR ENTRANCES AND PUBLIC ROAD APPROACHES SHALL BE INCLUDED IN THE PAY ITEM INCIDENTAL HOT-MIX ASPHALT SURFACING.

SIDE	STATION	TYPE	LENGTH			INCIDENTAL HOT-MIX ASPHALT SURFACING	AGGREGATE SURFACE COURSE, TYPE B
			FOOT	TON	TON		
LT	1021+41	PRA	10	7.4	-	-	-
RT	1027+97	PRA	13.5	23.9	-	-	-
LT	1027+73	PE	10	10.8	-	-	-
LT	1029+45	PE	11	4.7	-	-	-
RT	1029+97	CE	10	6.2	-	-	-
RT	1031+37	CE	10	6.3	-	-	-
RT	1033+90	FE	10	0.9	0.47	-	-
LT	1035+03	FE	10	0.8	0.47	-	-
RT	1035+46	FE	10	0.7	0.32	-	-
LT	1035+46	PE	10	5.0	-	-	-
LT	1048+75	PE	3.5	1.7	-	-	-
RT	1059+35	FE	10	0.8	0.83	-	-
RT	1060+71	PE	10	4.4	-	-	-
RT	1072+40	PE	12	3.7	-	-	-
RT	1073+85	PRA	10.7	12.3	-	-	-
LT	1074+04	PRA	17	5.7	-	-	-
RT	1084+34	FE	10	0.6	0.63	-	-
RT	1087+07	FE	10	0.8	0.75	-	-
LT	1092+15	PE	6.5	3.0	-	-	-
RT	1100+35	FE	10	0.5	0.49	-	-
LT	1111+08	FE	10	0.6	0.56	-	-
LT	1123+12	FE	10	0.7	0.6	-	-
LT	1126+89	PRA	11	12.2	-	-	-
RT	1127+02	PRA	10	7.3	-	-	-
RT	1141+18	FE	10	0.6	0.56	-	-
LT	1153+63	FE	10	0.6	0.72	-	-
RT	1154+09	FE	10	0.6	0.51	-	-
RT	1178+91	FE	10	0.6	0.51	-	-
RT	1180+16	FE	10	0.5	0.5	-	-
RT	1180+16	FE	10	0.5	0.6	-	-
RT	1206+15	PRA	10	4.5	-	-	-
LT	1206+15	PRA	17	7.4	-	-	-
RT	1219+36	FE	10	0.6	0.72	-	-
LT	1229+56	CE	7	13.0	-	-	-
LT	1239+33	CE	10	23.7	-	-	-
RT	1241+32	PRA	14	9.2	-	-	-
LT	28+21	PRA	35	38.1	-	-	-
RT	28+21	PRA	35	50.5	-	-	-
RT	27+02	CE	11	5.1	-	-	-
RT	25+96	CE	10	7.2	-	-	-
LT	25+78	CE	8.5	5.0	-	-	-
LT	24+97	CE	9.5	5.6	-	-	-
RT	24+61	CE	10	5.8	-	-	-
LT	23+50	CE	10	4.9	-	-	-
LT	22+48	CE	10	6.4	-	-	-
RT	1294+65	CE	10	6.5	-	-	-
LT	1296+91	FE	10	0.8	0.77	-	-
RT	1297+02	CE	10	7.3	-	-	-
LT	1312+67	PRA	11	7.2	-	-	-
LT	1314+40	CE	10	7.5	-	-	-
LT	1316+98	CE	10	7.5	-	-	-
RT	1317+23	FE	10	0.8	0.85	-	-
LT	1322+11	CE	10	7.5	-	-	-
LT	1324+83	PE	10	2.8	-	-	-
LT	1325+70	PE	10	2.6	-	-	-
RT	1325+71	FE	10	0.8	0.85	-	-
			TOTALS	411	16		

FE=FIELD ENTRANCE PRA - PUBLIC ROAD APPROACH  
PE=PRIVATE ENTRANCE MBT - MAILBOX TURNOUT  
CE=COMMERCIAL ENTRANCE

COLES/CUMBERLAND

FILE NAME =	USER NAME = swartzw	DESIGNED -	REVISED -
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PLOT SCALE = 50.0000 ' / IN.		CHECKED -	REVISED -
PLOT DATE = 10/17/2009		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ENTRANCE SCHEDULE AND DETAILS**

SCALE: N/A SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
824	(16-2,19X-2)RS-1,19B,19BR		52	25
CONTRACT NO. 74157				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

STRUCTURE NUMBER 015-2023

ITEM	UNIT	QUANTITY
EARTH EXCAVATION	CU YD	1538
POROUS GRANULAR EMBANKMENT	CU YD	491
SUB-BASE GRANULAR MATERIAL, TYPE B, 6"	SQ YD	753
PORTLAND CEMENT CONCRETE BASE COURSE WIDENING, 10"	SQ YD	144
HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 13 3/4"	SQ YD	753
PAVEMENT REMOVAL	SQ YD	753
COMBINATION CURB AND GUTTER REMOVAL	FOOT	430
PAVED SHOULDER REMOVAL	SQ YD	94
HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	89
COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	436
PAVEMENT MARKING REMOVAL	SQ FT	441

DETECTOR LOOP, TYPE 1

STATION	LOCATION DESCRIPTION	QUANTITY (FEET)
1415+97	US 45/RUDY AVE INTERSECTION	932
TOTAL =		932

19TH ST. CONCRETE MEDIAN REPLACEMENT

STATION	SIDE	MEDIAN REMOVAL (SQ FT)	COMBINATION CURB AND GUTTER REMOVAL (FOOT)	CONCRETE MEDIAN SURFACE, 4 INCH (SQ FT)	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.12 (FOOT)
1380+40	LT	163	63	163	63
TOTALS		163	63	163	63

GUARDRAIL SCHEDULE

GUARDRAIL REMOVAL

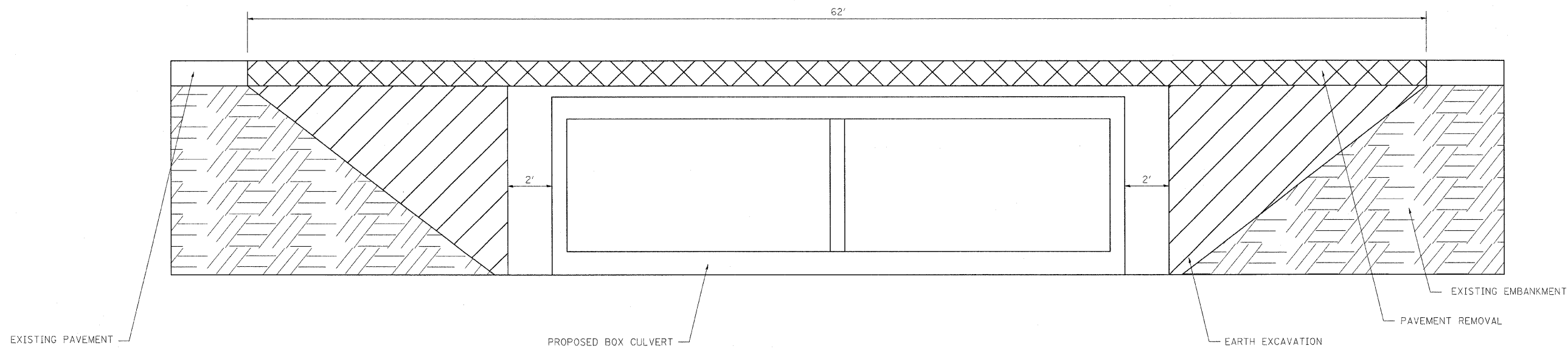
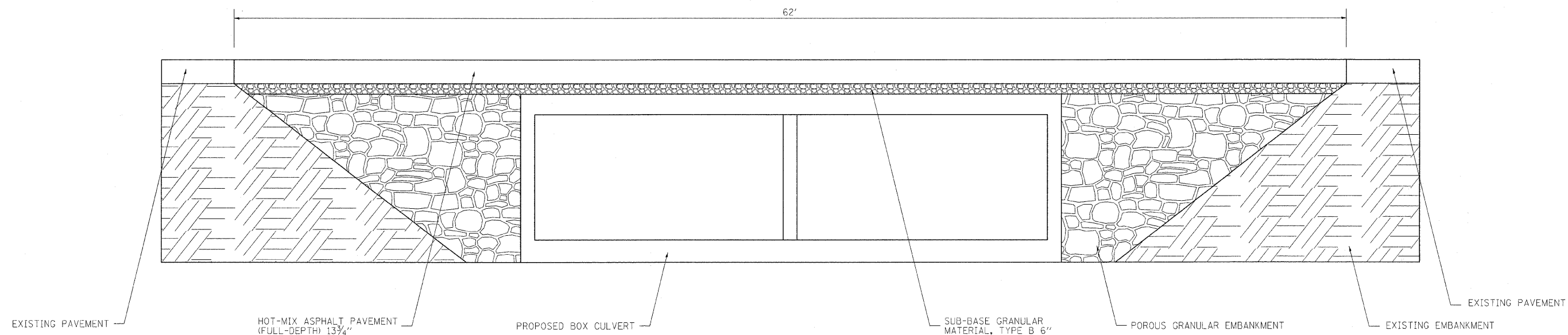
STATIONING		LOCATION DESCRIPTION	QUANTITY (FEET)
FROM	TO		
1065+61	1067+51	634 FT SOUTH OF TRILLA ROAD	190
1124+19	1124+82	US 45-ETNA RD INT./ S. END OF SW QUADRANT	63
1126+89	-	US 45-ETNA RD INT./ W. END OF SW QUADRANT	50
1127+29	-	US 45-ETNA RD INT./ W. END OF NW QUADRANT	50
1128+18	1128+60	US 45-ETNA RD INT./ N. END OF NW QUADRANT	42
1128+24	1128+74	US 45-ETNA RD INT./ N. END OF NE QUADRANT	50
1140+59	1141+11	1300 FT NORTH OF BRIDGE @ ETNA ROAD	52
TOTAL =			497

TRAFFIC BARRIER TERMINAL, TYPE 1

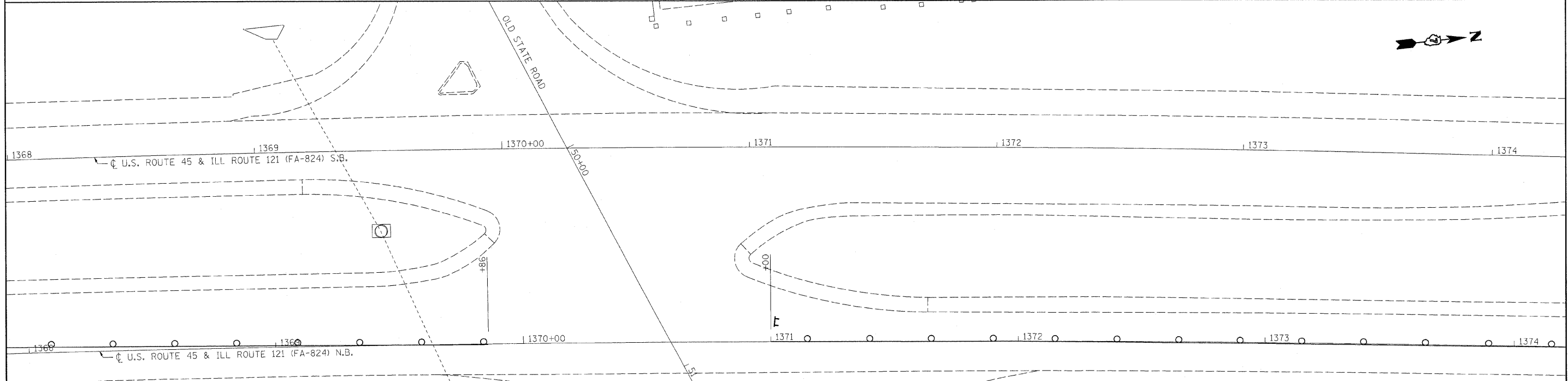
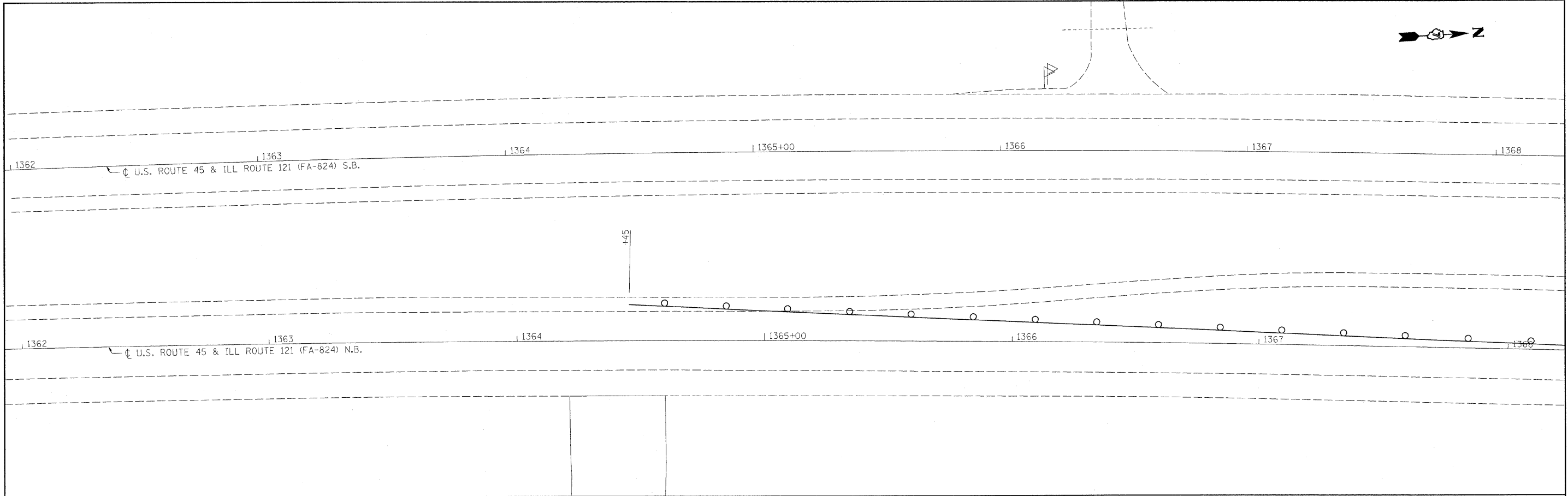
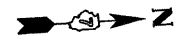
STATIONING		LOCATION DESCRIPTION	QUANTITY (EACH)	STANDARD NO.
FROM	TO			
1065+61	1066+06	634 FT SOUTH OF TRILLA ROAD/ S. END	1	630301-04
1067+06	1067+56	634 FT SOUTH OF TRILLA ROAD/ N. END	1	630301-04
1124+19	1124+69	US 45-ETNA RD INT./ S. END OF SW QUADRANT	1	630301-03
1126+89	-	US 45-ETNA RD INT./ W. END OF SW QUADRANT	1	630301-03
1127+29	-	US 45-ETNA RD INT./ W. END OF NW QUADRANT	1	630301-03
1128+18	1128+68	US 45-ETNA RD INT./ N. END OF NE QUADRANT	1	630301-03
1128+24	1128+74	US 45-ETNA RD INT./ N. END OF NW QUADRANT	1	630301-03
TOTAL =			7	

STEEL PLATE BEAM GUARDRAIL, TYPE A

STATIONING		LOCATION DESCRIPTION	QUANTITY (FEET)	STANDARD NO.
FROM	TO			
1066+06	1067+06	634 FT SOUTH OF TRILLA ROAD	100.0	630001-07
1124+69	1124+82	US 45-ETNA RD INT./ S. END OF SW QUADRANT	12.5	630001-06
TOTAL =			113	



FILE NAME =		USER NAME = swartzrw		DESIGNED -		REVISED -		<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>		<b>TYPICAL SECTIONS: BOX CULVERT REMOVAL AND REPLACEMENT - SN 015-2023</b>		F.A.P. RTE.		SECTION		COUNTY		TOTAL SHEETS		SHEET NO.	
c:\pwork\pwork\swartzrw\dms50599\sh...		ip.74157.dgn		DRAWN -		REVISED -						824		(16-2,19X-2)RS-1,19B,19BR		•		52		27	
PLOT SCALE = 50,0000 ' / IN.		CHECKED -		REVISED -																	
PLOT DATE = 10/17/2008		DATE -		REVISED -																	
										SCALE: N/A		SHEET NO. 1 OF 1 SHEETS		STA.		TO STA.		FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	
																				• COLES/CUMBERLAND	
																				CONTRACT NO. 74157	



**STAGE I NOTES**

INSTALL SIGNAGE AND ARROW BOARDS FOR NORTHBOUND LANES ACCORDING TO TRAFFIC CONTROL STANDARD 701423 AND FOR THE SOUTHBOUND LANES ACCORDING TO TRAFFIC CONTROL STANDARD 701602, CASE III.

THE TYPE III BARRICADES SHALL BE INCLUDED IN THE COST OF STANDARD 701423.

**LEGEND**

- DRUMS
- IMPACT ATTENUATOR
- TEMPORARY CONCRETE BARRIER WALL (STANDARD 704001)
- TYPE III BARRICADE

• COLES/CUMBERLAND

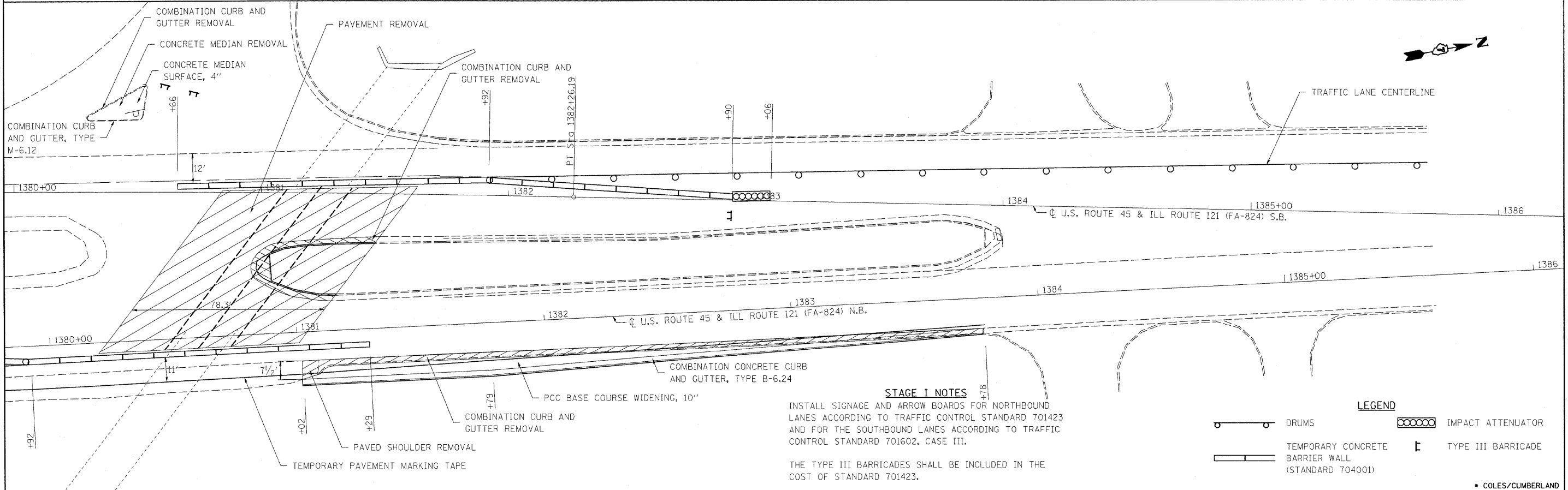
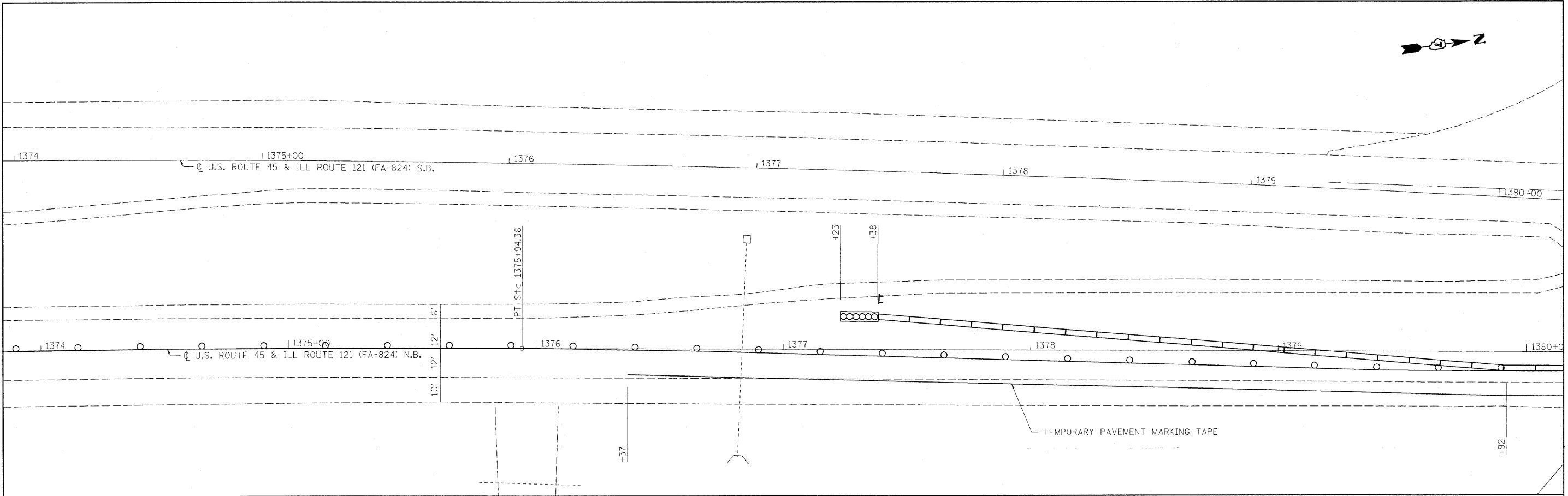
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		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STAGE I CONSTRUCTION - SN 015-2023  
BOX CULVERT REMOVAL AND REPLACEMENT**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
824	(16-2,19X-2)RS-1,19B,19BR	•	52	28
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
CONTRACT NO. 74157				

SCALE: 20 SHEET NO. 1 OF 4 SHEETS STA. 1362+00 TO STA. 1374+00



**STAGE I NOTES**

INSTALL SIGNAGE AND ARROW BOARDS FOR NORTHBOUND LANES ACCORDING TO TRAFFIC CONTROL STANDARD 701423 AND FOR THE SOUTHBOUND LANES ACCORDING TO TRAFFIC CONTROL STANDARD 701602, CASE III.

THE TYPE III BARRICADES SHALL BE INCLUDED IN THE COST OF STANDARD 701423.

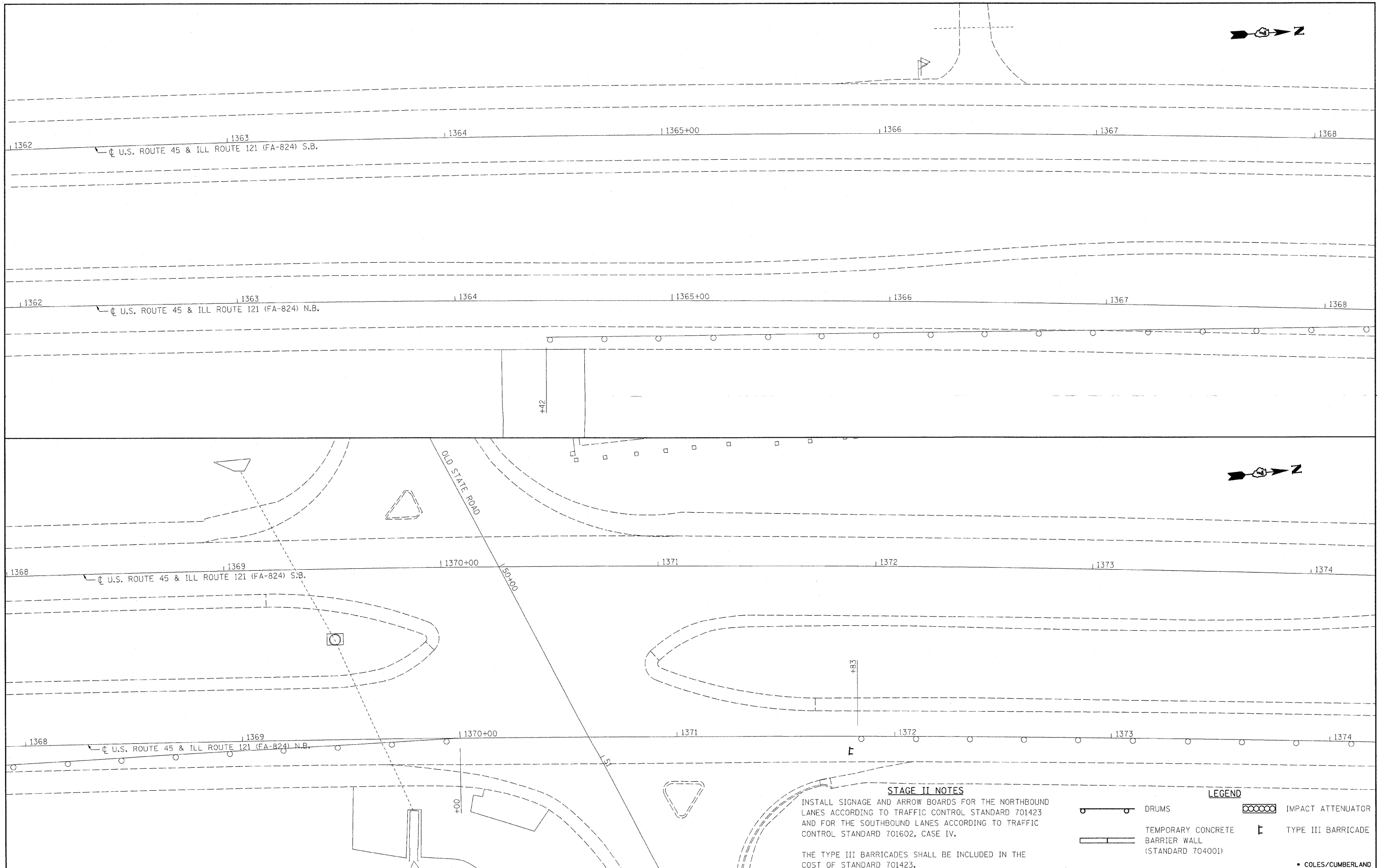
**LEGEND**

- DRUMS
- IMPACT ATTENUATOR
- TEMPORARY CONCRETE BARRIER WALL (STANDARD 704001)
- TYPE III BARRICADE

FILE NAME =	USER NAME = swartzw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>STAGE I CONSTRUCTION - SN 015-2023 BOX CULVERT REMOVAL AND REPLACEMENT</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ca:\pw\work\pwwdot\swartzw\dms58699\shht	tagel.74157.dgn	DRAWN -	REVISED -			824	(16-2,19X-2)RS-1,19B,19BR	•	52	29	
PLOT SCALE = 20,0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 74157					
PLOT DATE = 10/17/2008		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

• COLES/CUMBERLAND

SCALE: 20 SHEET NO. 2 OF 4 SHEETS STA. 1374+00 TO STA. 1386+00



**STAGE II NOTES**  
 INSTALL SIGNAGE AND ARROW BOARDS FOR THE NORTHBOUND LANES ACCORDING TO TRAFFIC CONTROL STANDARD 701423 AND FOR THE SOUTHBOUND LANES ACCORDING TO TRAFFIC CONTROL STANDARD 701602, CASE IV.  
 THE TYPE III BARRICADES SHALL BE INCLUDED IN THE COST OF STANDARD 701423.

**LEGEND**

	DRUMS		IMPACT ATTENUATOR
	TEMPORARY CONCRETE BARRIER WALL (STANDARD 704001)		TYPE III BARRICADE

• COLES/CUMBERLAND

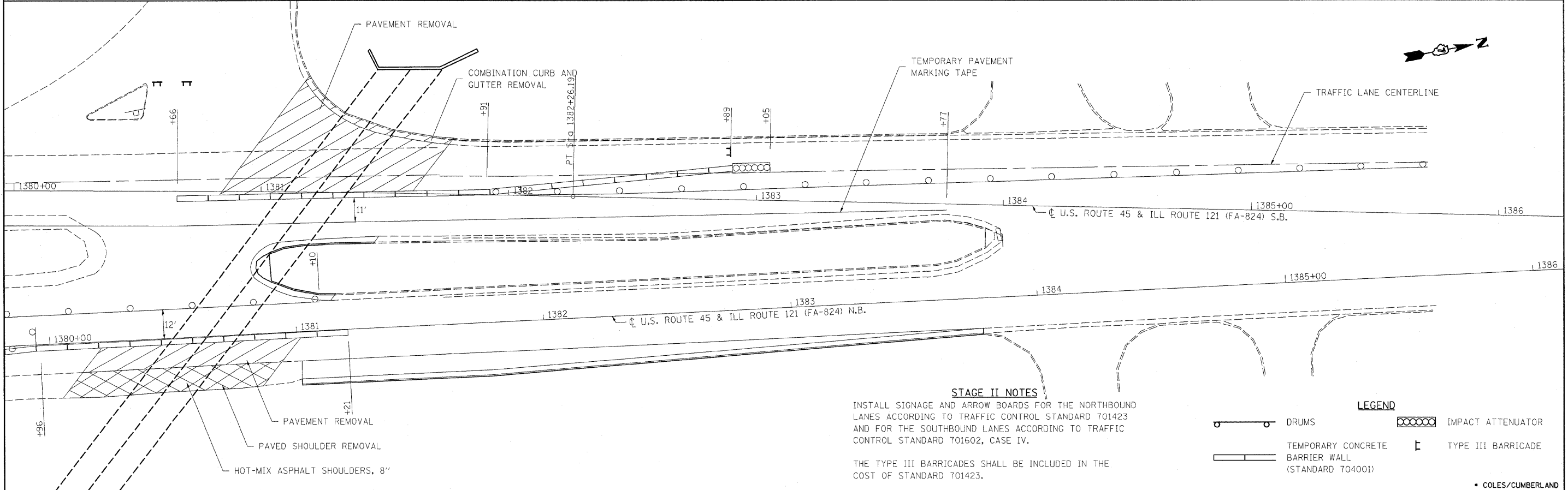
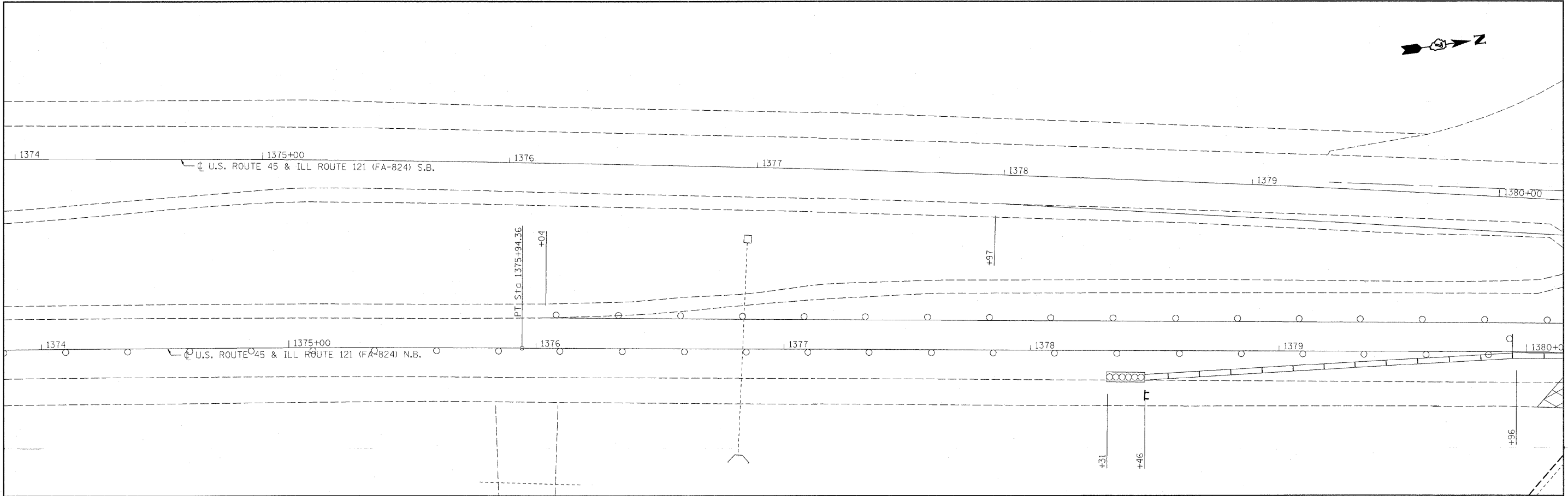
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	PLOT DATE = 10/17/2008	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**STAGE II CONSTRUCTION - SN 015-2023  
 BOX CULVERT REMOVAL AND REPLACEMENT**

SCALE: 20 SHEET NO. 3 OF 4 SHEETS STA. 1362+00 TO STA. 1374+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
824	(16-2,19X-2)RS-1,19B,19BR	•	52	30
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 74157	

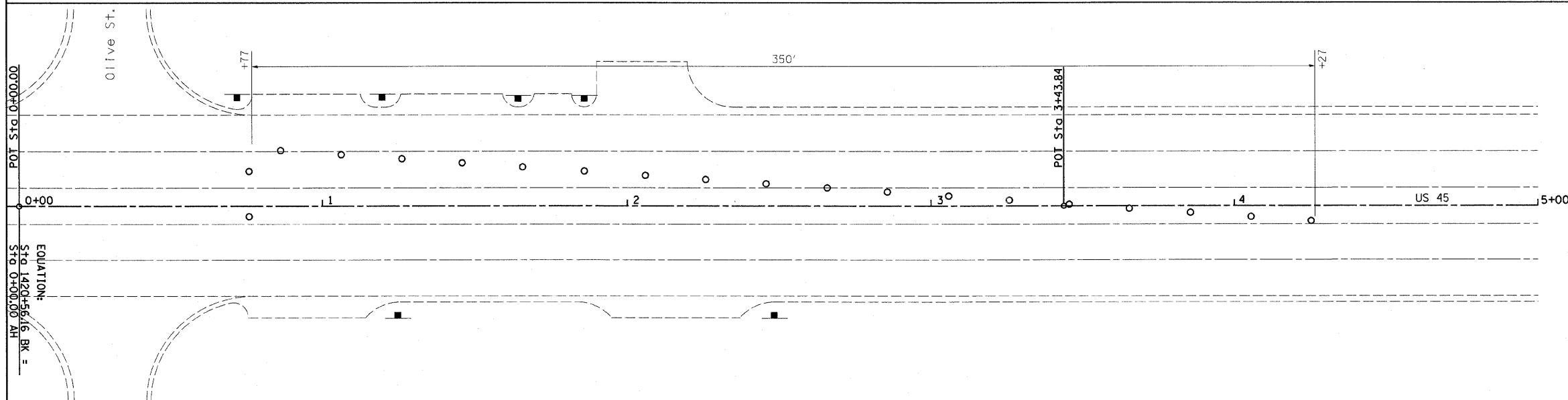
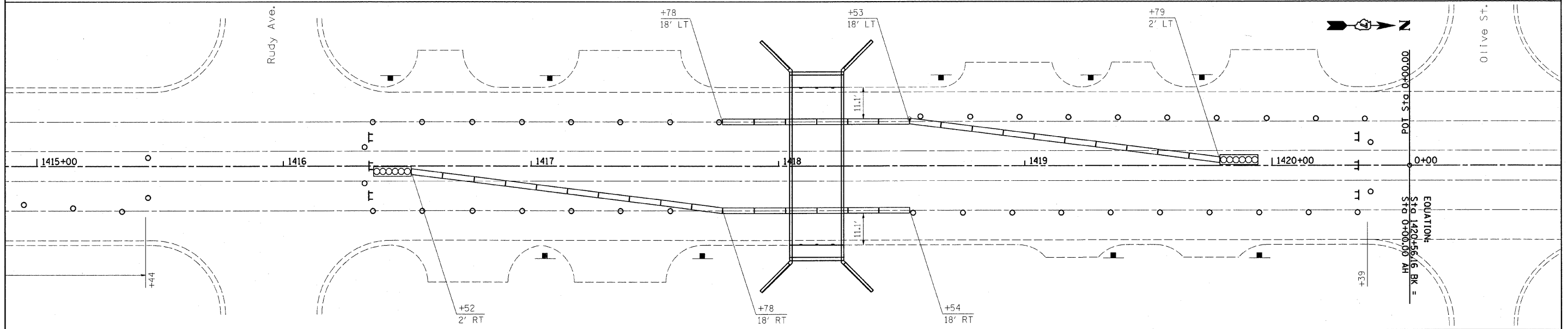
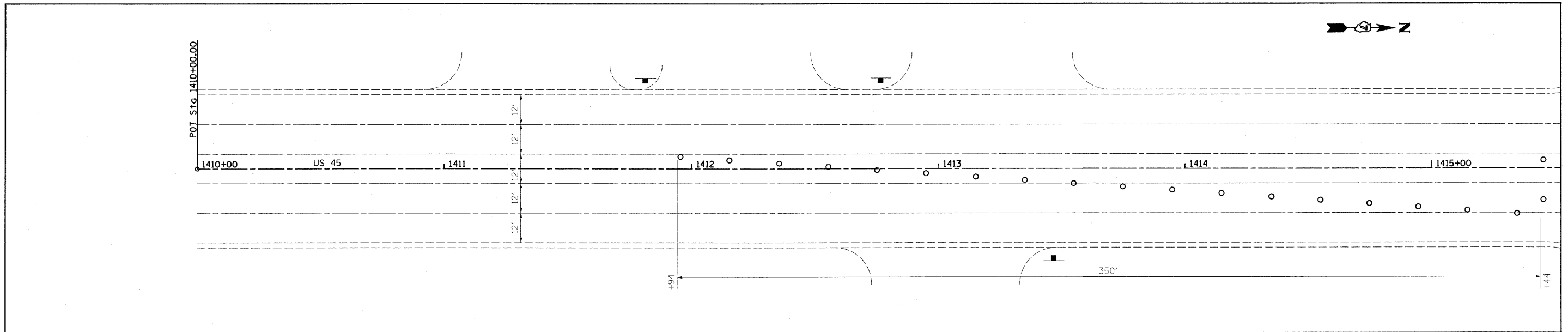


**STAGE II NOTES**  
 INSTALL SIGNAGE AND ARROW BOARDS FOR THE NORTHBOUND LANES ACCORDING TO TRAFFIC CONTROL STANDARD 701423 AND FOR THE SOUTHBOUND LANES ACCORDING TO TRAFFIC CONTROL STANDARD 701602, CASE IV.  
 THE TYPE III BARRICADES SHALL BE INCLUDED IN THE COST OF STANDARD 701423.

- LEGEND**
- DRUMS
  - IMPACT ATTENUATOR
  - TEMPORARY CONCRETE BARRIER WALL (STANDARD 704001)
  - TYPE III BARRICADE

FILE NAME =	USER NAME = swartzw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>STAGE II CONSTRUCTION - SN 015-2023 BOX CULVERT REMOVAL AND REPLACEMENT</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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PLOT SCALE = 20,0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 74157					
PLOT DATE = 10/17/2008		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

• COLES/CUMBERLAND



**STAGE I NOTES**

INSTALL SIGNAGE AND ARROW BOARDS ACCORDING TO TRAFFIC CONTROL STANDARD 701602 CASE I.

SEE HIGHWAY STANDARD 701602-3, CASE I FOR SIGNS, ARROW BOARDS, SIGN LOCATIONS, AND NOTES NOT SHOWN ON THE STAGE I CONSTRUCTION PLAN SHEET.

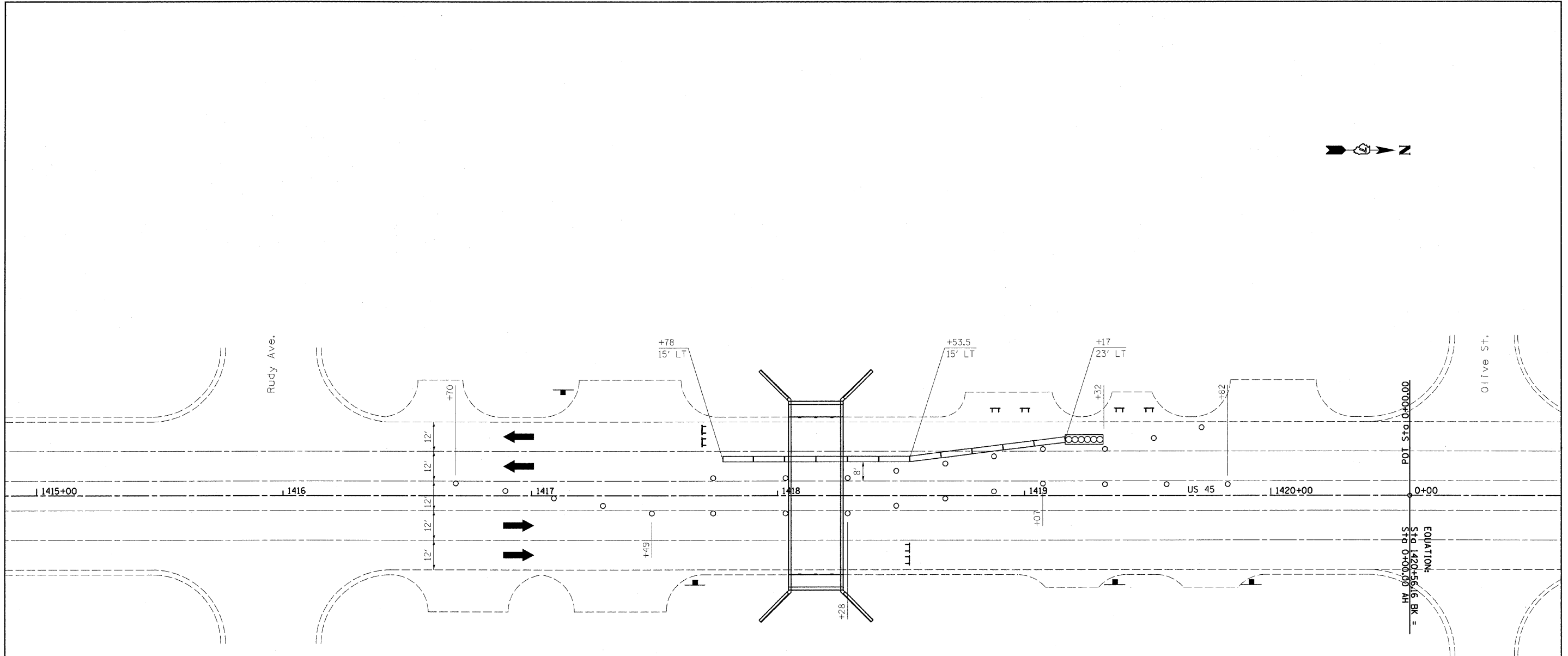
FINAL SIGN LOCATION AND SPACING WILL BE DETERMINED BY THE ENGINEER TO FIT FIELD CONDITIONS.

**LEGEND**

- ○ DRUMS
- NO LEFT TURN SIGN (R3-2-2424)
- ▬ TEMPORARY CONCRETE BARRIER WALL (STANDARD 704001)
- IMPACT ATTENUATOR
- ⌈ TYPE III BARRICADE

FILE NAME =	USER NAME = swartzrw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>STAGE I CONSTRUCTION - SN 015-0025 BRIDGE REPAIR OVER KICKAPOO CREEK</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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PLOT DATE = 10/17/2008	DATE -	REVISED -				CONTRACT NO. 74157					
						SCALE: 20		SHEET NO. 1 OF 3 SHEETS		STA. 1410+00 TO STA. 5+00	
• COLES/CUMBERLAND											
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT											



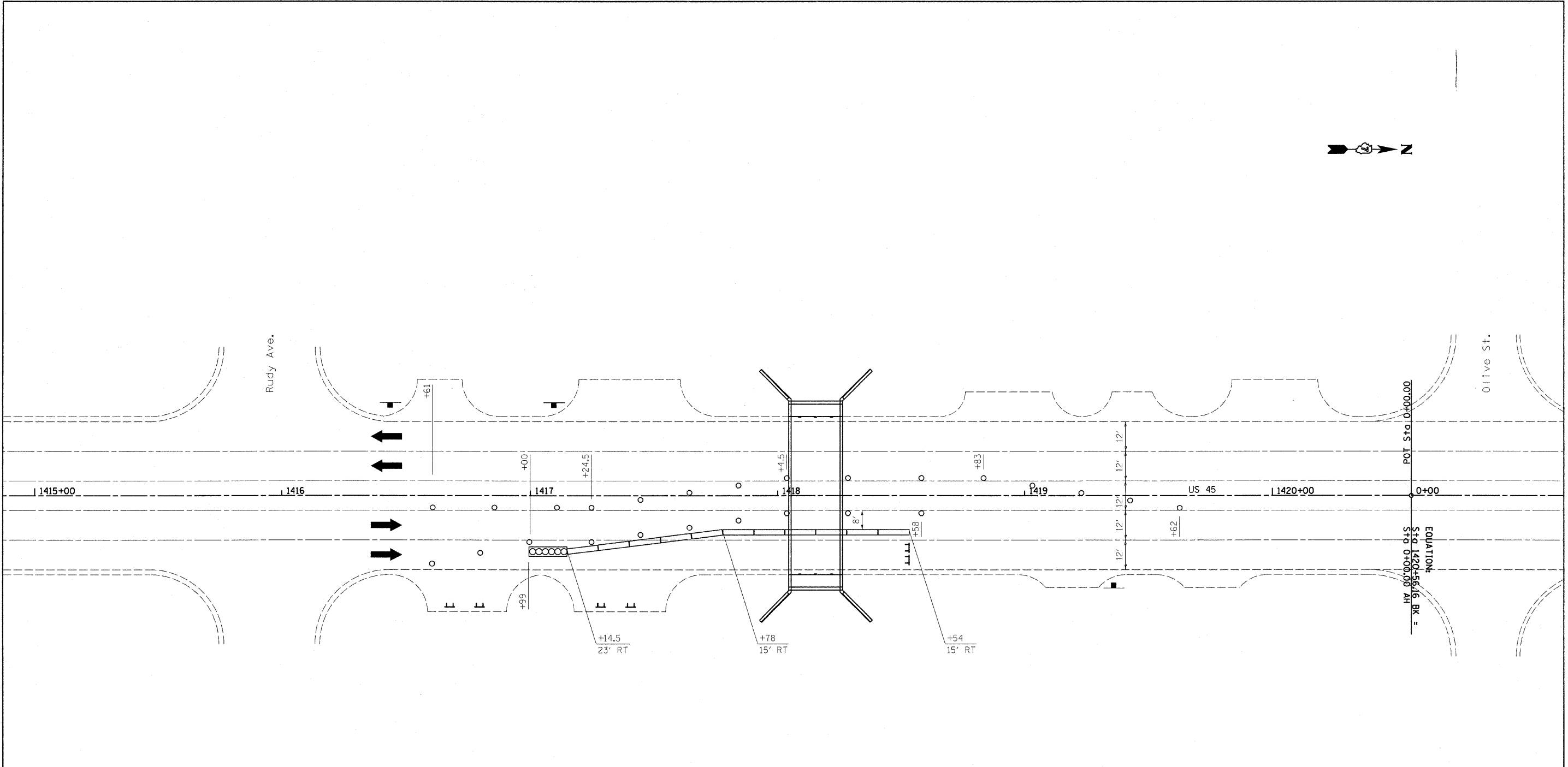


**STAGE II NOTES**  
 SEE HIGHWAY STANDARD 701602-3, CASE II FOR SIGNS, ARROW BOARDS, SIGN LOCATIONS, AND NOTES NOT SHOWN ON THE STAGE II CONSTRUCTION PLAN SHEET.  
 FINAL SIGN LOCATION AND SPACING WILL BE DETERMINED BY THE ENGINEER TO FIT FIELD CONDITIONS.

**LEGEND**

○	○	DRUMS
▬		TEMPORARY CONCRETE BARRIER WALL (STANDARD 704001)
○○○○○		IMPACT ATTENUATOR
⌊		TYPE III BARRICADE
■		NO LEFT TURN SIGN (R3-2-2424)

FILE NAME =	USER NAME = swartzw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>STAGE II CONSTRUCTION - SN 015-0025 BRIDGE REPAIR OVER KICKAPOO CREEK</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
o:\pwork\pwork\swartzw\dms50699\shs\stage2_74157.dgn	PLOT SCALE = 20.0000' / IN.	DRAWN -	REVISED -			824	(16-2,19X-2)RS-1,19B,19BR	•	52	33	
PLOT DATE = 10/17/2008	DATE -	CHECKED -	REVISED -			CONTRACT NO. 74157					
						FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT					



**STAGE III NOTES**

SEE HIGHWAY STANDARD 701602-3, CASE II FOR SIGNS, ARROW BOARDS, SIGN LOCATIONS, AND NOTES NOT SHOWN ON THE STAGE III CONSTRUCTION PLAN SHEET.

FINAL SIGN LOCATION AND SPACING WILL BE DETERMINED BY THE ENGINEER TO FIT FIELD CONDITIONS.

**LEGEND**

- ○ DRUMS
- ▬ TEMPORARY CONCRETE BARRIER WALL (STANDARD 704001)
- IMPACT ATTENUATOR
- ⌊ TYPE III BARRICADE
- NO LEFT TURN SIGN (R3-2-2424)

• COLES/CUMBERLAND

FILE NAME =	USER NAME = swartzw	DESIGNED -	REVISED -
c:\pwwork\pwwork\swartzw\des50699\sh...	stage3_74157.dgn	DRAWN -	REVISED -
	PLOT SCALE = 20.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 10/17/2008	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STAGE III CONSTRUCTION - SN 015-0025  
BRIDGE REPAIR OVER KICKAPOO CREEK**

SCALE: 20 SHEET NO. 3 OF 3 SHEETS STA. 1415+00 TO STA. 0+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
824	(16-2,19X-2)RS-1,19B,19BR	•	52	34
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 74157	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO. FAP 824	SECTION *	COUNTY COLES	SHEET NO. 52	TOTAL SHEETS 35	SHEET NO. 1 9 SHEETS
FED. ROAD DIST. NO.		BILLINGS	FED. AID PROJECT *U6-2, 19X-2)RS-1, 19B, 19BR		

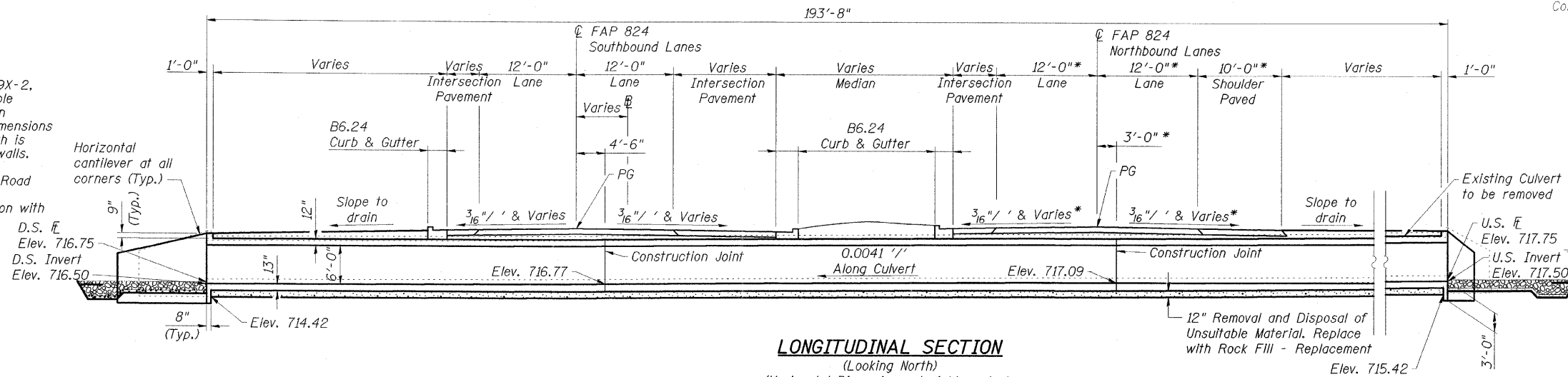
Contract #74157

**BENCHMARK:**  
BM - Chiseled square on NW corner of E. headwall of SN 015-2006, Station 1380+26, 141.23' RT. Elev. 726.63 (NAVD 88)

**EXISTING STRUCTURE:**  
SN 015-2006 was originally built in 1940 as SBI 25, Section 19-X and was extended in 1969 as SBI 25, Section 16-2, 19X-2, 19 BY, 19 BY-1. It is a double box culvert with wingwalls on spread footings. The box dimensions are 8'5" x 6'6" and the length is 242'-6" out to out of headwalls. Traffic shall be maintained utilizing stage construction. Road closure will be required of 19th Street at the intersection with US 45 during construction.

**STATIONING:**  
Stationing of the structure is based on where the centerline of the culvert crosses the baseline as determined by IDOT District 7 Surveys.

No salvage.



**LONGITUDINAL SECTION**  
(Looking North)  
(Horizontal Dimensions at right angle to  $\odot$  FAP 824 southbound lanes unless noted otherwise)  
\* dimension at right angle to  $\odot$  FAP 824 northbound lanes

**STRUCTURE INDEX OF SHEETS**

General Plan	Sheet No. 1 of 9
General Data	Sheet No. 2 of 9
Stage Construction Details	Sheet No. 3 & 4 of 9
Box Culvert Details	Sheet No. 5 & 6 of 9
Bar Splicer Assembly Details	Sheet No. 7 of 9
Soil Boring Logs	Sheet No. 8 of 9
Temporary Concrete Barrier	Sheet No. 9 of 9

**DESIGN SPECIFICATIONS**  
2002 AASHTO

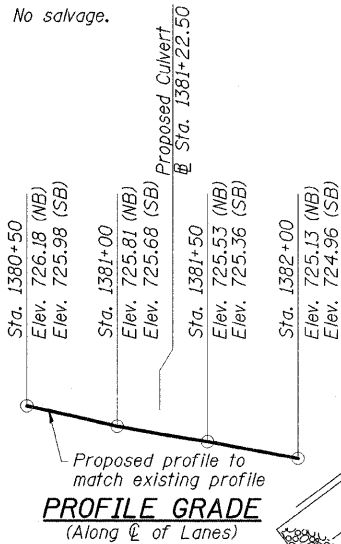
**LOADING HS20-44**  
Allow 50 psf for future wearing surface.

**DESIGN STRESSES**

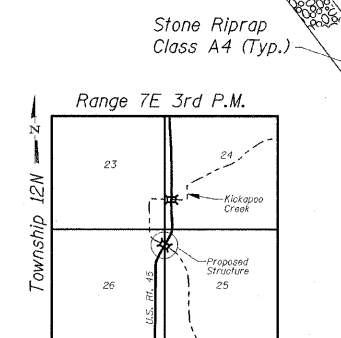
**FIELD UNITS**  
f'c = 3,500 psi  
fy = 60,000 psi (Reinf.)

**WATERWAY INFORMATION**

Drainage Area = 0.92 Sq. Mi.		Exist. Low Grade Elev. = 723.3 Ft. @ Sta. 1384+83.50		Prop. Low Grade Elev. = 723.3 Ft. @ Sta. 1384+83.50					
Flood	Freq. Yr.	Q C.F.S.	Opening-Sq. Ft.	Nat. H.W.E. Exist. Prop.	Head-Ft. Exist. Prop.	Headwater El. Exist. Prop.			
Design	10	477	59	108	722.0	1.2	0.0	723.2	722.0
Base	50	803	69	122	722.6	1.6	0.3	724.2	722.9
Overtopping	100	955	72	127	722.8	1.6	0.9	724.4	723.7
Overtopping	12	495	59	-	722.0	1.3	-	723.3	-
Overtopping	65	847	-	125	722.7	-	0.6	-	723.3



**PROFILE GRADE**  
(Along  $\odot$  of Lanes)



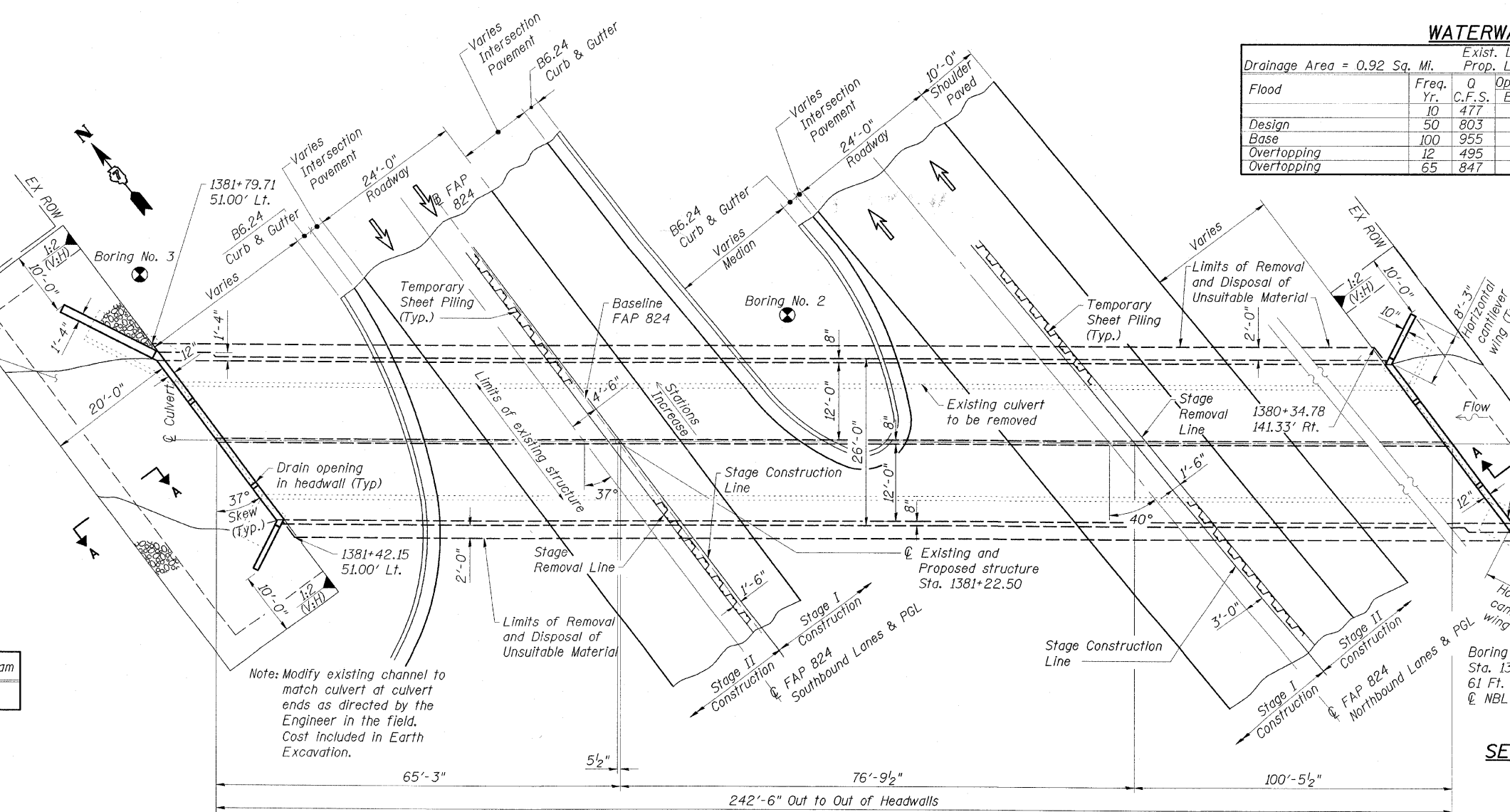
**LOCATION SKETCH**

**SCOUR INFORMATION**

Design Scour Elevation (Ft.)	Upstream	Downstream
	714.50	713.50

**ESCA**  
CONSULTANTS, INC.

DESIGNED BY:	DAJ	07/08
DRAWN BY:	HAS	07/08
CHECKED BY:	ELH	09/08
APPROVED BY:	RDP	09/08



Note: Modify existing channel to match culvert at culvert ends as directed by the Engineer in the field. Cost Included in Earth Excavation.

**PLAN**

**APPROVED**  
FOR STRUCTURAL ADEQUACY ONLY

*Ralph Anderson*  
ENGINEER OF BRIDGES AND STRUCTURES



EXPIRES 11-30-08  
*Richard D. Payne*  
SIGNATURE  
7-29-08  
DATE

**GENERAL PLAN**

**US 45 OVER KICKAPOO CREEK**  
**FAP ROUTE 824**  
**SECTION (16-2, 19X-2)RS-1, 19B, 19BR**  
**COLES COUNTY**  
**STATION 1381+22.50**  
**STRUCTURE NO. 015-2023**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

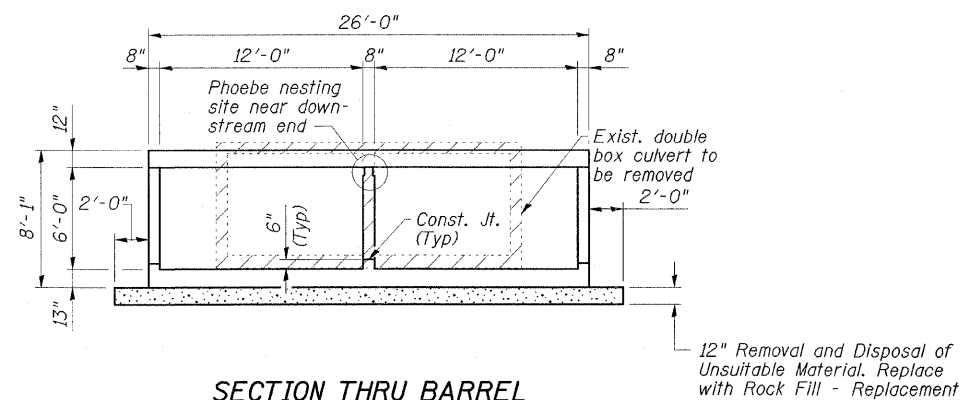
ROUTE NO.	SECTION	COUNTY	SHEET	SHEET NO.
FAP 824	*	COLES	52 36	9 SHEETS
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
Contract #74157		*U6-2, 19X-2)RS-1, 19B, 19BR		

**GENERAL NOTES**

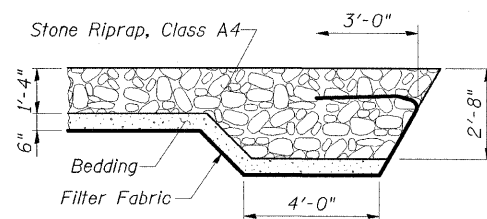
1. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
2. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
3. For backfilling and embankment, see Standard Specifications.
4. At least 8'-0" of the barrel shall be poured monolithically with wingwalls.
5. Precast alternate is not allowed.
6. The limits and quantities of Removal and Disposal of Unsuitable Material shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions encountered in the field.

STATION 1381+22.50  
BUILT 200 BY  
STATE OF ILLINOIS  
FAP RT. 824  
SEC. (16-2, 19X-2)RS-1, 19B, 19BR  
LOADING HS20-44  
STR. NO. 015-2023

**NAME PLATE**  
See Std. 515001



**SECTION THRU BARREL**



**SECTION A-A**

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Stone Riprap, Class A4	Sq. Yd.	262
Filter Fabric	Sq. Yd.	262
Removal of Existing Structures	Each	1
Concrete Box Culverts	Cu. Yd.	621.3
Reinforcement Bars	Pound	142,910
Name Plates	Each	1
Temporary Sheet Piling	Sq. Ft.	1550
Bar Splicers	Each	280
Removal and Disposal of Unsuitable Material	Cu. Yd.	270
Rock Fill - Replacement	Ton	554

See Roadway Plans for quantities of Temporary Concrete Barrier and Earth Excavation and Porous Granular Embankment.

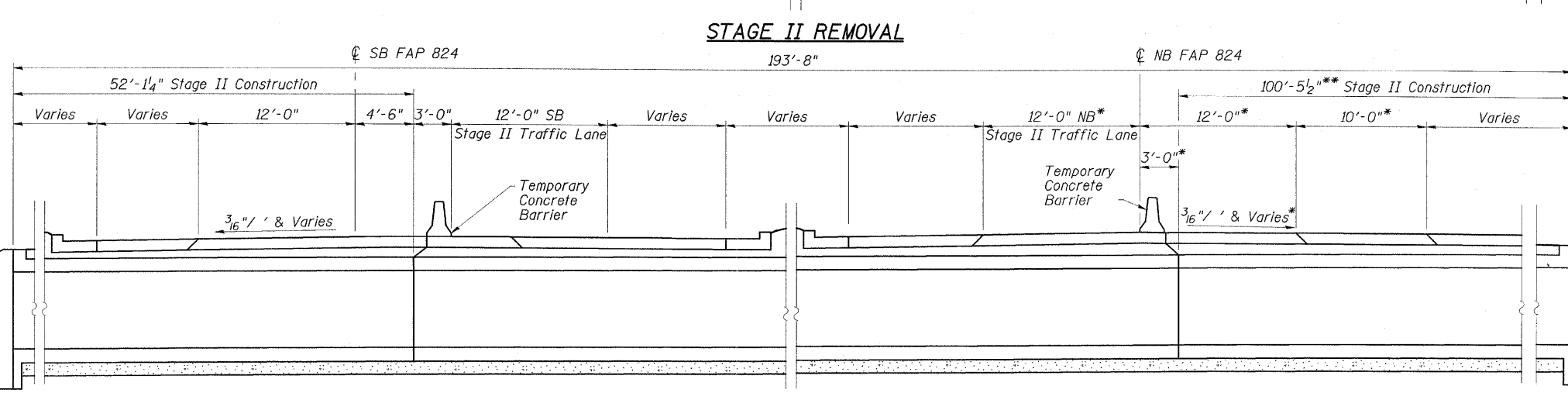
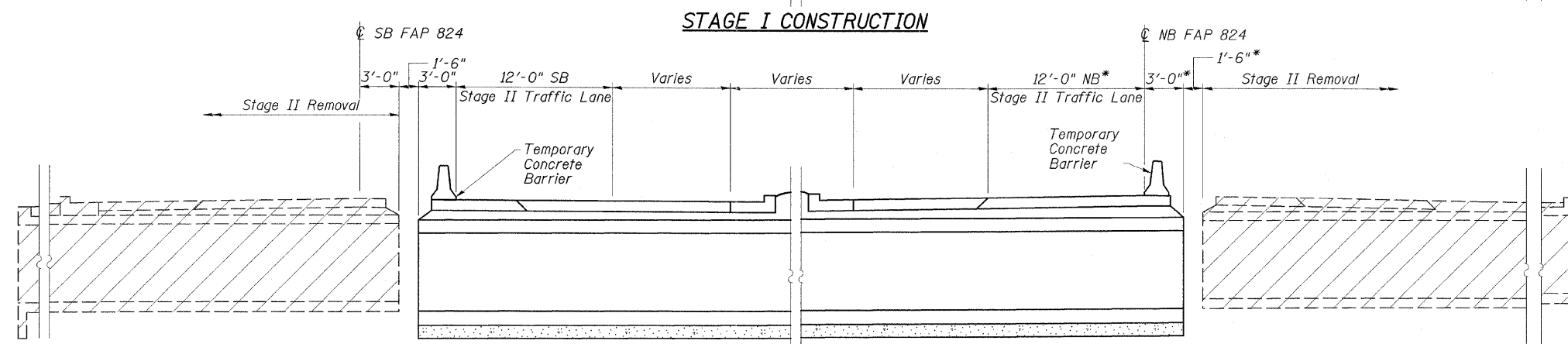
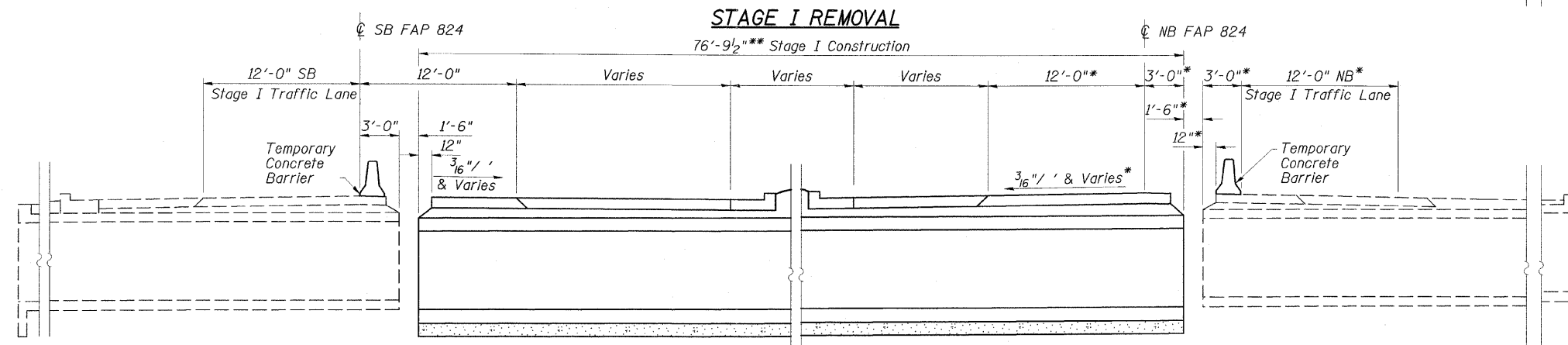
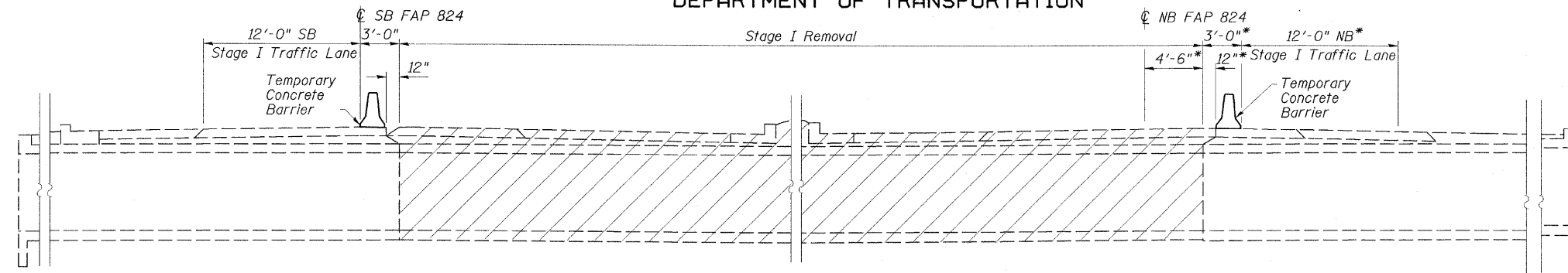
**GENERAL DATA**  
US 45 OVER KICKAPOO CREEK  
FAP ROUTE 824  
SECTION (16-2, 19X-2)RS-1, 19B, 19BR  
COLES COUNTY  
STATION 1381+22.50  
STRUCTURE NO. 015-2023

**ESCA**  
CONSULTANTS, INC.

DESIGNED BY:	DAJ	07/08
DRAWN BY:	HAS	07/08
CHECKED BY:	ELH	09/08
APPROVED BY:	RDP	09/08

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO. FAP 824	SECTION #	COUNTY COLES	TOTAL SHEETS 52	SHEET NO. 37	SHEET NO. 3 9 SHEETS
FED. ROAD DIST. NO.		ILLINOIS		FED. AID PROJECT Contract #74157 *16-2, 19X-2)RS-1, 19B, 19BR	



**STAGE CONSTRUCTION NOTES**

1. Hatched areas indicate Removal of Existing Structures.
2. For details of Temporary Concrete Barrier, see Sh. No. 9 of 9.
3. All sections are looking North.
4. Horizontal dimensions are at right angles to  $\text{CL}$  FAP 824 southbound lanes unless noted otherwise.

\* dimension at right angle to  $\text{CL}$  FAP 824 northbound lanes  
\*\* measured along culvert centerline

**STAGE CONSTRUCTION DETAILS**  
**US 45 OVER KICKAPOO CREEK**  
**FAP ROUTE 824**  
**SECTION (16-2, 19X-2)RS-1, 19B, 19BR**  
**COLES COUNTY**  
**STATION 1381+22.50**  
**STRUCTURE NO. 015-2023**

**ESCA**  
CONSULTANTS, INC.

DESIGNED BY:	DAJ	07/08
DRAWN BY:	HAS	07/08
CHECKED BY:	ELH	07/08
APPROVED BY:	RDP	07/08

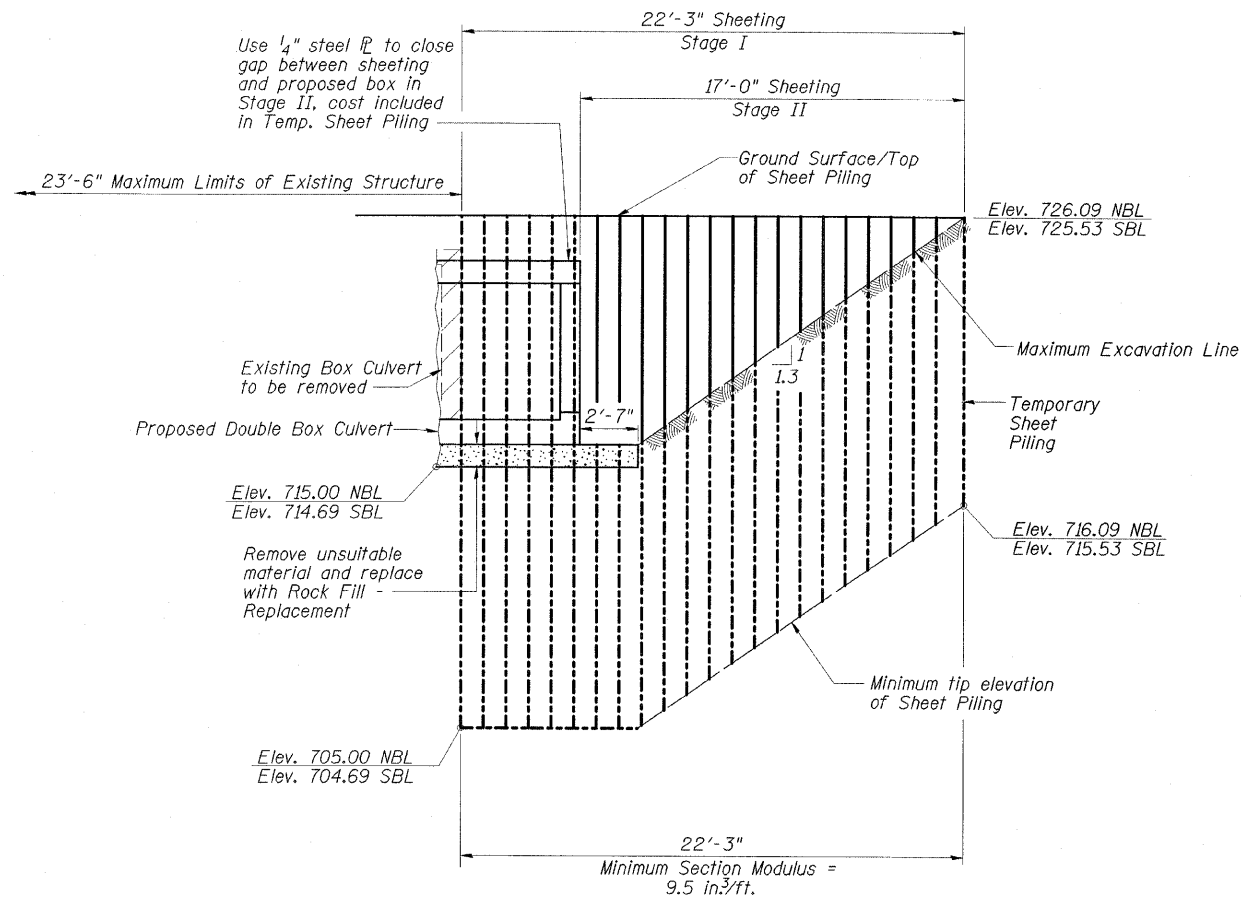
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET	SHEET NO.
FAP 824	*	COLES	52	38	9 SHEETS
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJ. NO.		
			*16-2, 19X-2)RS-1, 19B, 19BR		

Contract #74157

**TEMPORARY SHEET PILING NOTES**

1. If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.



**TEMPORARY SHEET PILING**

(To be constructed parallel to centerline of lanes on each side)

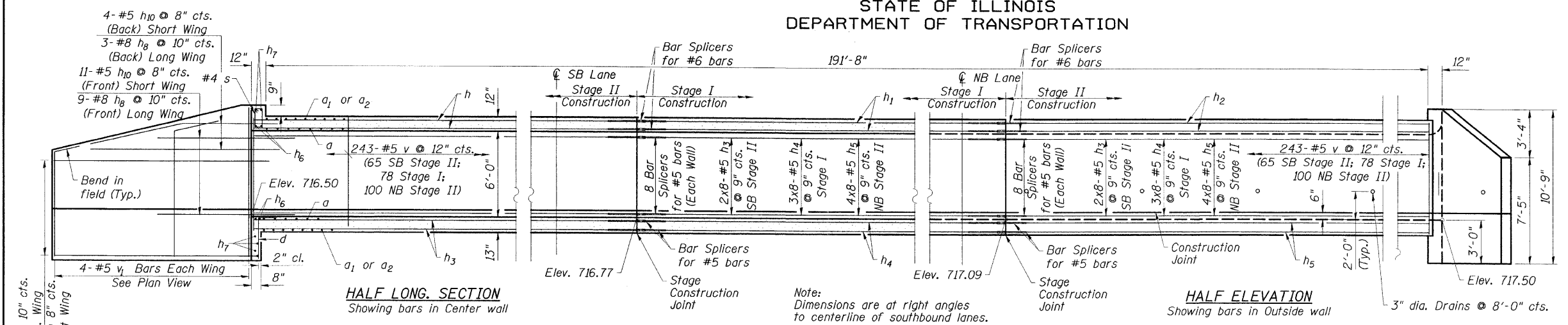
**STAGE CONSTRUCTION DETAILS**  
**US 45 OVER KICKAPOO CREEK**  
**FAP ROUTE 824**  
**SECTION (16-2, 19X-2)RS-1, 19B, 19BR**  
**COLES COUNTY**  
**STATION 1381+22.50**  
**STRUCTURE NO. 015-2023**

**ESCA**  
CONSULTANTS, INC.

DESIGNED BY:	DAJ	07/08
DRAWN BY:	HAS	07/08
CHECKED BY:	ELH	09/08
APPROVED BY:	RDP	09/08

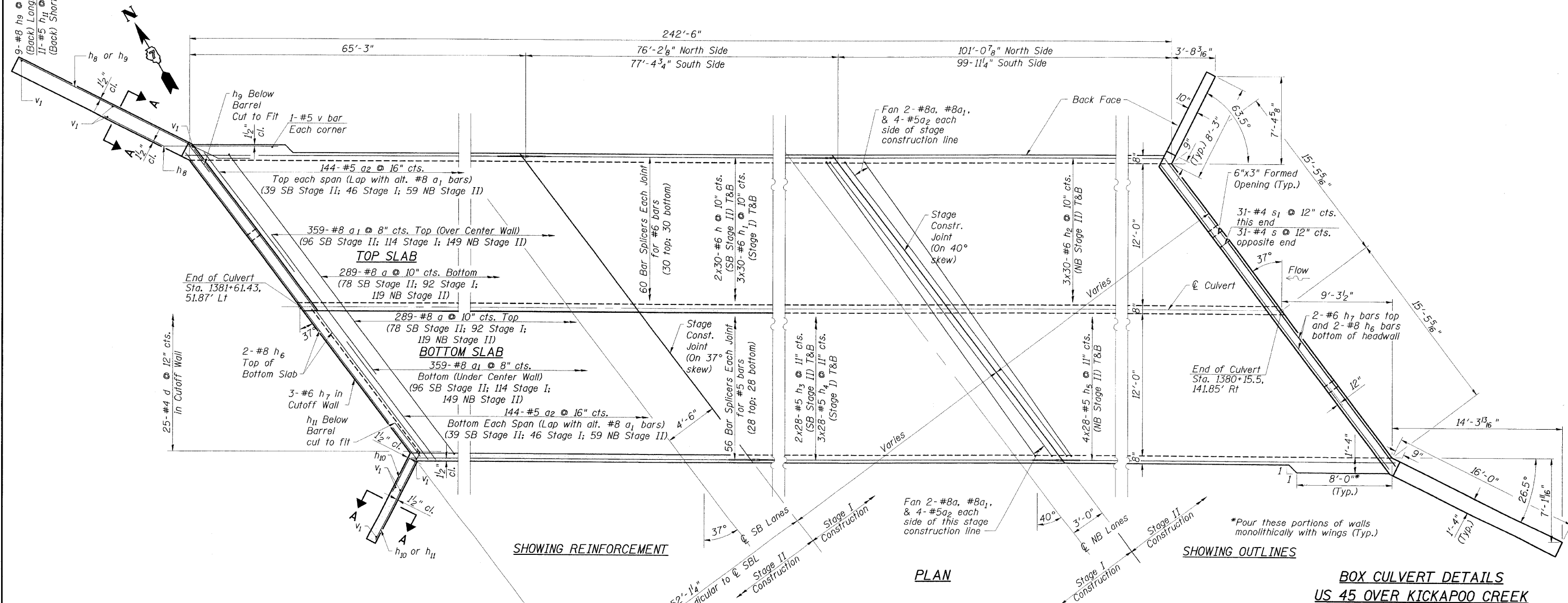
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
FAP 824	*	COLES	5239	9
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		Contract #74157		*16-2, 19X-2/RS-1, 19B, 19BR



Note:  
Place a, a<sub>1</sub>, & a<sub>2</sub>  
bars on 37 degree  
skew unless noted  
otherwise.

MIN. BAR LAP  
#5 ..... 1'-8"  
#6 ..... 2'-0"



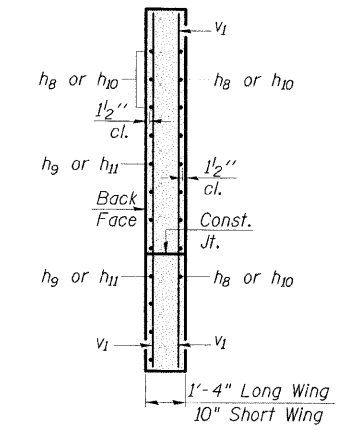
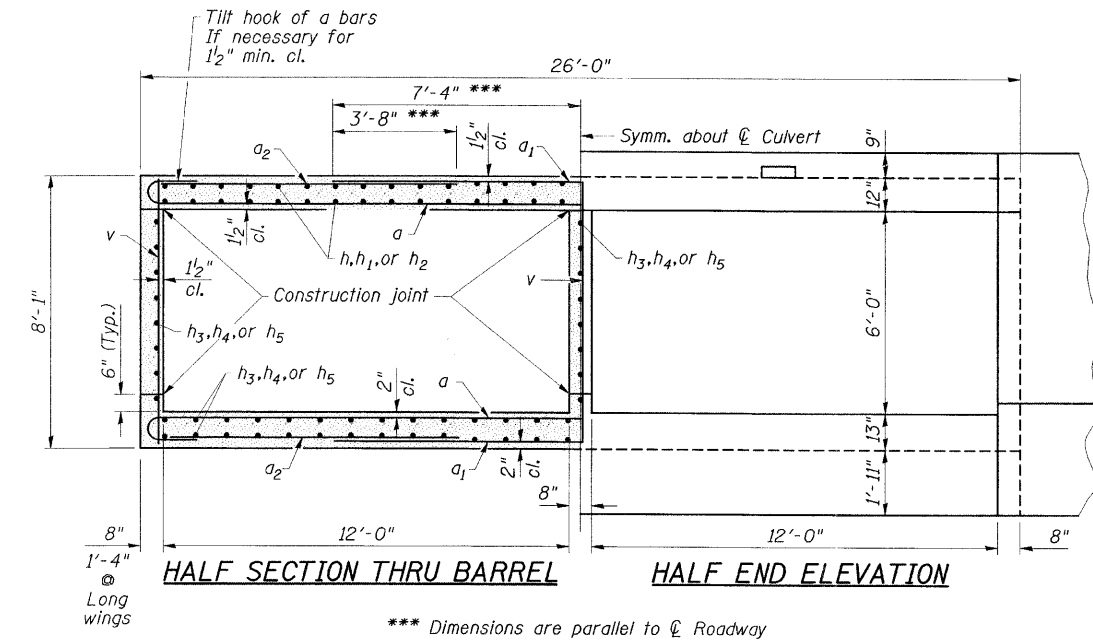
**ESCA**  
CONSULTANTS, INC.

DESIGNED BY:	DAJ	07/08
DRAWN BY:	HAS	07/08
CHECKED BY:	ELH	07/08
APPROVED BY:	RDP	07/08

**BOX CULVERT DETAILS**  
**US 45 OVER KICKAPOO CREEK**  
**FAP ROUTE 824**  
**SECTION (16-2, 19X-2/RS-1, 19B, 19BR**  
**COLES COUNTY**  
**STATION 1381+22.50**  
**STRUCTURE NO. 015-2023**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

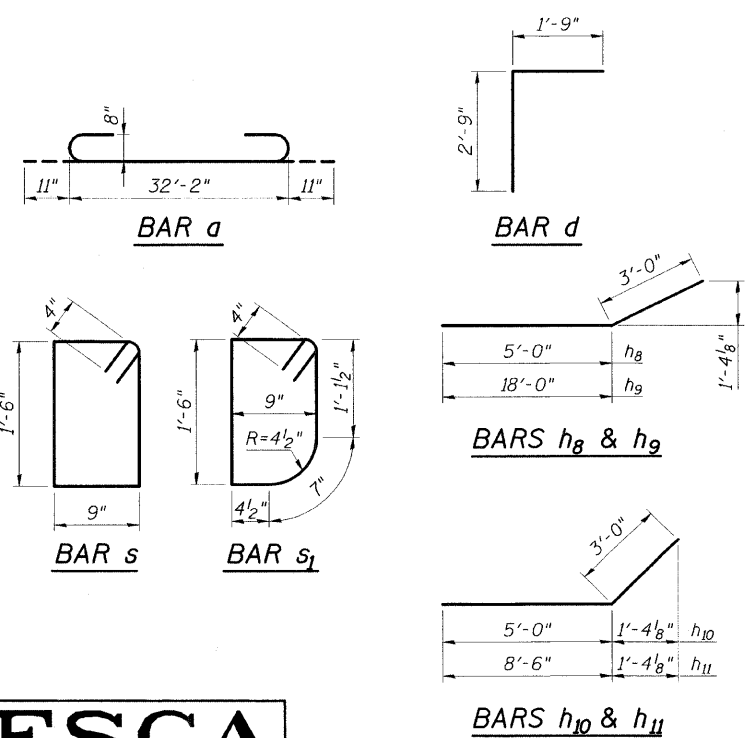
ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
FAP 824	*	COLES	52 40	6
FED. ROAD DIST. NO.	ILLINOIS PROJECT	FED. AID PROJECT	9 SHEETS	
			Contract #74157 *16-2, 19X-21RS-1, 19B, 19BR	



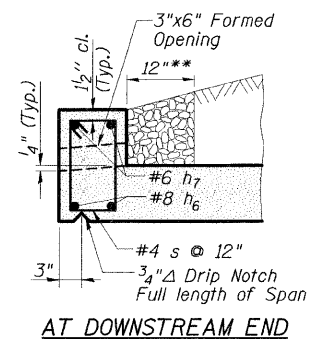
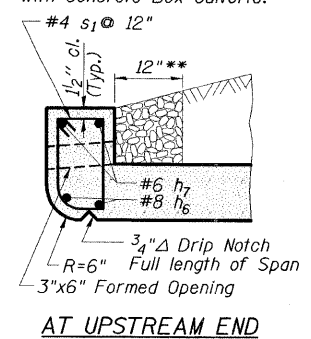
SECTION A-A  
(Bars shown are in long wing)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	586	#8	34'-0"	
a1	726	#8	14'-8"	
a2	592	#5	12'-6"	
d	50	#4	4'-6"	
h	120	#6	33'-6"	
h1	180	#6	26'-11"	
h2	180	#6	35'-0"	
h3	160	#5	33'-4"	
h4	240	#5	26'-10"	
h5	320	#5	26'-6"	
h6	8	#8	32'-3"	
h7	10	#6	32'-3"	
h8	24	#8	8'-0"	
h9	18	#8	21'-0"	
h10	30	#5	8'-0"	
h11	22	#5	11'-6"	
s	31	#4	5'-2"	
s1	31	#4	5'-0"	
v	733	#5	7'-9"	
v1	16	#5	9'-9"	
Concrete Box Culverts			Cu. Yd.	621.3
Reinforcement Bars			Pound	142,910
Bar Splicers			Each	280

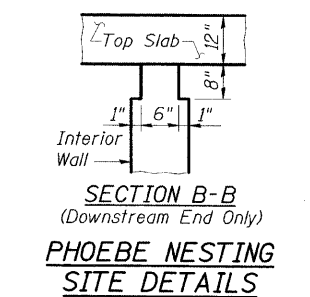
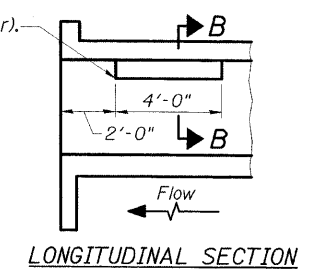


\*\* Coarse aggregate full length of both headwalls. To be placed by Grading Contractor. Cost included with Concrete Box Culverts.



DRAIN DETAILS

Notch formed by rough-finished board attached to and removed with formwork at interior wall. (Do not chamfer).



SECTION B-B  
(Downstream End Only)  
PHOEBE NESTING  
SITE DETAILS

BOX CULVERT DETAILS  
US 45 OVER KICKAPOO CREEK  
FAP ROUTE 824  
SECTION (16-2, 19X-2)RS-1, 19B, 19BR  
COLES COUNTY  
STATION 1381+22.50  
STRUCTURE NO. 015-2023

**ESCA**  
CONSULTANTS, INC.

DESIGNED BY:	DAJ	07/08
DRAWN BY:	HAS	07/08
CHECKED BY:	ELH	07/08
APPROVED BY:	RDP	07/08



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

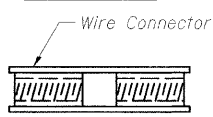
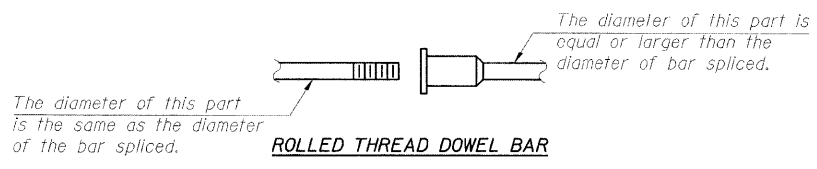
ROUTE NO.	SECTION	COUNTY	SUBSHEETS	SHEET NO.	SHEET NO. 7 9 SHEETS
FAP 824	*	COLES	52	41	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	Contract #14157 *16-2, 19X-2)RS-1, 19B, 19BR		

**NOTES**

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.  
Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.  
All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.  
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.  
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

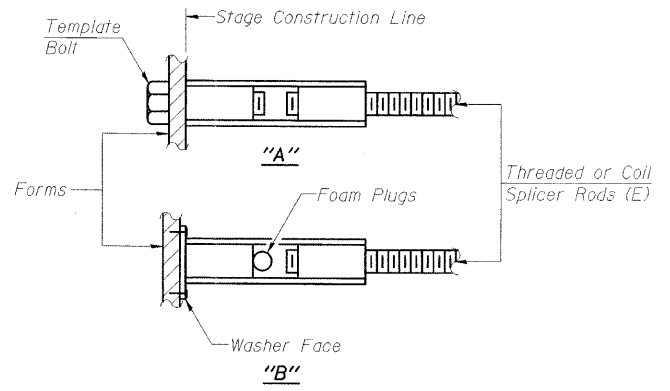
- ① Minimum Capacity (Tension in kips) =  $1.25 \times f_y \times A_t$
  - ② Minimum \*Pull-out Strength (Tension in kips) =  $0.66 \times f_y \times A_t$
- Where  $f_y$  = Yield strength of lapped reinforcement bars in ksi.  
 $A_t$  = Tensile stress area of lapped reinforcement bars.  
\* = 28 day concrete

BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	7.9
#5	2'-0"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8



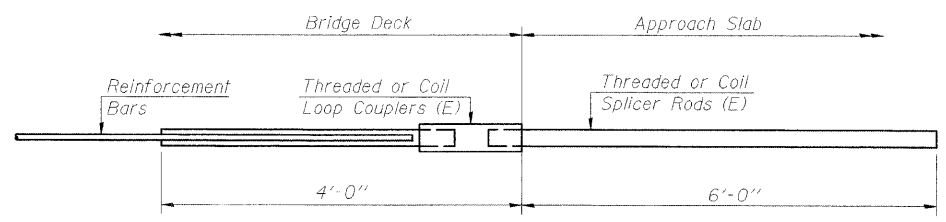
**BAR SPLICER ASSEMBLY ALTERNATIVES**

\*\*Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.

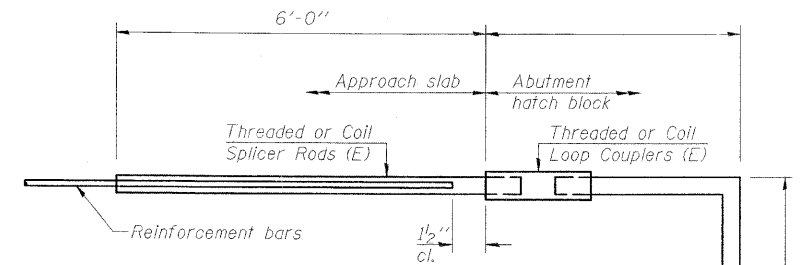


**INSTALLATION AND SETTING METHODS**

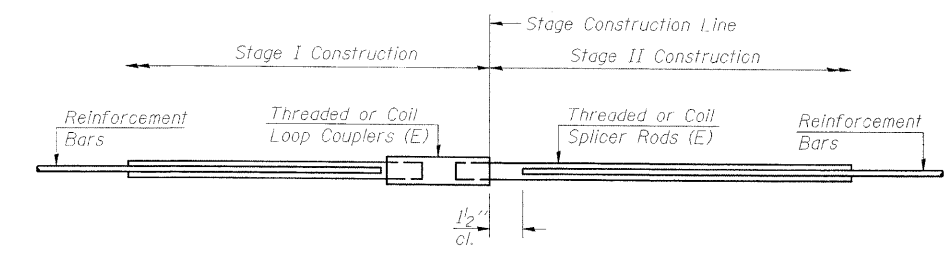
"A" :Set bar splicer assembly by means of a template bolt.  
"B" :Set bar splicer assembly by nailing to wood forms or cementing to steel forms.  
(E) : Indicates epoxy coating.



**FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS**



**FOR STUB ABUTMENTS**



Bar Size	No. Assemblies Required	Location
#5	112	Bottom Slab
#5	48	Walls
#6	120	Top Slab

Bar Splicer for #5 bar		
Min. Capacity =	23.0 kips - tension	
Min. Pull-out Strength =	12.3 kips - tension	
No. Required =	0	

Bar Splicer for #5 bar		
Min. Capacity =	23.0 kips - tension	
Min. Pull-out Strength =	12.3 kips - tension	
No. Required =	0	

**BAR SPLICER ASSEMBLY DETAILS**  
**US 45 OVER KICKAPOO CREEK**  
**FAP ROUTE 824**  
**SECTION (16-2, 19X-2)RS-1, 19B, 19BR**  
**COLES COUNTY**  
**STATION 1381+22.50**  
**STRUCTURE NO. 015-2023**

**ESCA**  
CONSULTANTS, INC.

DESIGNED BY:	DAJ	07/08
DRAWN BY:	HAS	07/08
CHECKED BY:	ELH	08/08
APPROVED BY:	ADP	08/08

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



SOIL BORING LOG

Page 2 of 2  
Date 10/21/05

ROUTE FAP 824 (US 45) DESCRIPTION Un-named Stream LOGGED BY E. Sandschaefer

SECTION 16-2, 19X-2RS-1, 19B, 19BR LOCATION SE 1/4, SEC. 23, TWP. 12 N, RNG. 7 E, 3 PM

COUNTY Coles DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 015-2006  
Station 1381+23.5

BORING NO. 1  
Station 1379+94

Surface Water Elev. Dry ft  
Stream Bed Elev. 718.83 ft

Groundwater Elev.:  
First Encounter Dry ft  
Upon Completion 590.1 ft  
After 120 Hrs. 716.6 ft

Very stiff to medium, damp, gray, CLAY TILL. (continued)

704.63  
722.13  
719.63  
714.63  
712.13

Very stiff to medium, damp, gray, CLAY TILL.

695.63

Extent of exploration.

Benchmark: Chiseled square on NW corner of E headwall of existing box culvert = 726.63'

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 2  
Date 10/21/05

ROUTE FAP 824 (US 45) DESCRIPTION Un-named Stream LOGGED BY E. Sandschaefer

SECTION 16-2, 19X-2RS-1, 19B, 19BR LOCATION SE 1/4, SEC. 23, TWP. 12 N, RNG. 7 E, 3 PM

COUNTY Coles DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 015-2006  
Station 1381+23.5

BORING NO. 2  
Station 1381+24

Surface Water Elev. Dry ft  
Stream Bed Elev. 718.83 ft

Groundwater Elev.:  
First Encounter Dry ft  
Upon Completion 689.2 ft  
After 120 Hrs. 718.1 ft

Dark brown, TOPSOIL w/ roots.

725.16  
722.66  
720.16  
715.16  
712.16

Hard, very moist, tan, SILTY CLAY LOAM TILL, embankment.

Stiff to very stiff, damp, black, CLAY w/ few wood fragments.

Stiff to soft, very damp, black/grey/brown, CLAY.

Very soft, very damp, brown, SILTY LOAM.

Stiff to very stiff, damp, gray, CLAY LOAM TILL.

687.16

Extent of exploration.

Benchmark: Chiseled square on NW corner of E headwall of existing box culvert = 726.63'

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, from 137 (Rev. 8-99)

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
FAP 824	*	COLES	52	42
FED. ROAD DIST. NO.		ILLINOIS	FED. ROAD PROJECT	
			Contract #74157 *16-2, 19X-2RS-1, 19B, 19BR	

SHEET NO. 8  
9 SHEETS



SOIL BORING LOG

Page 1 of 2  
Date 10/21/05

ROUTE FAP 824 (US 45) DESCRIPTION Un-named Stream LOGGED BY E. Sandschaefer

SECTION 16-2, 19X-2RS-1, 19B, 19BR LOCATION SE 1/4, SEC. 23, TWP. 12 N, RNG. 7 E, 3 PM

COUNTY Coles DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 015-2006  
Station 1381+23.5

BORING NO. 1  
Station 1379+94

Surface Water Elev. Dry ft  
Stream Bed Elev. 718.83 ft

Groundwater Elev.:  
First Encounter Dry ft  
Upon Completion 590.1 ft  
After 120 Hrs. 716.6 ft

Black, TOPSOIL w/ roots.

724.63  
722.13  
719.63  
714.63  
712.13

Hard, very moist, tan, SILTY LOAM TILL, embankment.

Hard, very moist, black w/ red specks, CLAY, embankment.

Very stiff, damp, black/brown/gray, CLAY w/ few hair roots.

Soft, very damp, tan, SANDY CLAY LOAM w/ some fine gravel.

Very stiff to medium, damp, gray, CLAY TILL.

695.63

Extent of exploration.

Benchmark: Chiseled square on NW corner of E headwall of existing box culvert = 726.63'

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 2  
Date 10/21/05

ROUTE FAP 824 (US 45) DESCRIPTION Un-named Stream LOGGED BY E. Sandschaefer

SECTION 16-2, 19X-2RS-1, 19B, 19BR LOCATION SE 1/4, SEC. 23, TWP. 12 N, RNG. 7 E, 3 PM

COUNTY Coles DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 015-2006  
Station 1381+23.5

BORING NO. 3  
Station 1381+89

Surface Water Elev. Dry ft  
Stream Bed Elev. 718.83 ft

Groundwater Elev.:  
First Encounter Dry ft  
Upon Completion 587.7 ft  
After 120 Hrs. 716.8 ft

Black, TOPSOIL w/ roots.

725.72

Hard, very moist, brown, SANDY CLAY TILL, embankment.

718.22

Medium, very damp, gray marbled brown, SILTY CLAY.

714.22

Very soft, wet, brown, SILTY LOAM.

711.22

Medium to stiff, damp, gray, CLAY LOAM TILL.

696.22

Extent of exploration.

Benchmark: Chiseled square on NW corner of E headwall of existing box culvert = 726.63'

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Page 2 of 2  
Date 10/21/05

ROUTE FAP 824 (US 45) DESCRIPTION Un-named Stream LOGGED BY E. Sandschaefer

SECTION 16-2, 19X-2RS-1, 19B, 19BR LOCATION SE 1/4, SEC. 23, TWP. 12 N, RNG. 7 E, 3 PM

COUNTY Coles DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 015-2006  
Station 1381+23.5

BORING NO. 3  
Station 1381+89

Surface Water Elev. Dry ft  
Stream Bed Elev. 718.83 ft

Groundwater Elev.:  
First Encounter Dry ft  
Upon Completion 587.7 ft  
After 120 Hrs. 716.8 ft

Stiff, damp, gray, CLAY LOAM TILL.

686.22

Extent of exploration.

Benchmark: Chiseled square on NW corner of E headwall of existing box culvert = 726.63'

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, from 137 (Rev. 8-99)

**ESCA**  
CONSULTANTS, INC.

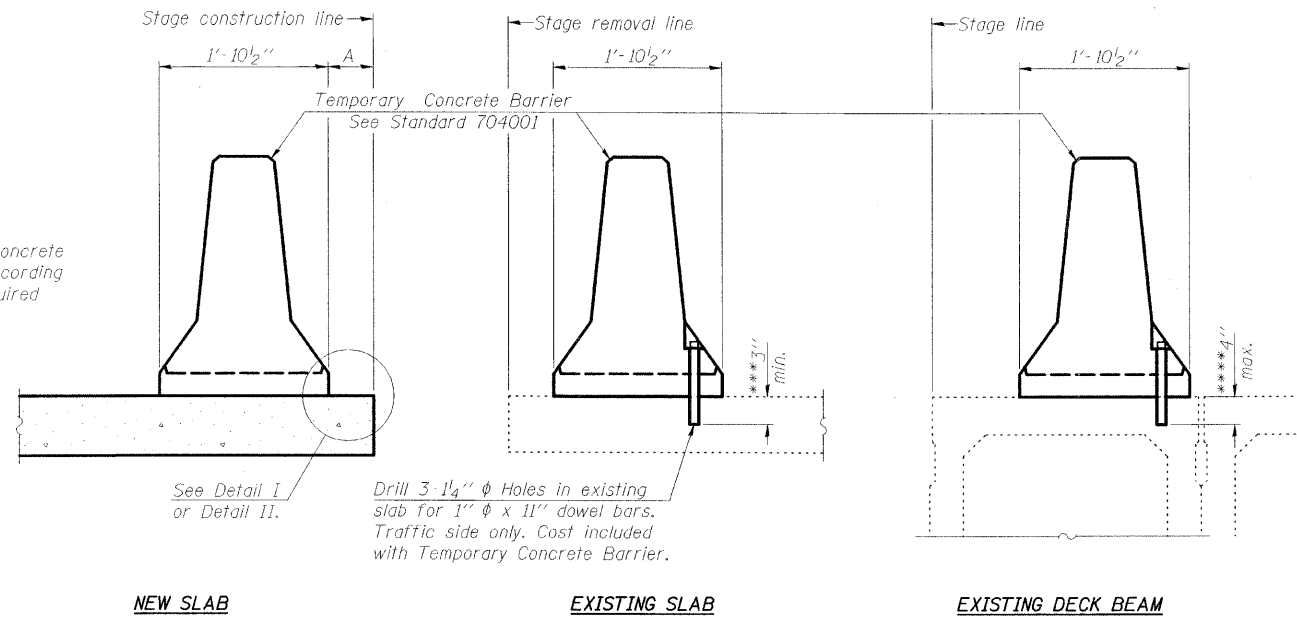
DESIGNED BY: DAJ 07/08  
DRAWN BY: HAS 07/08  
CHECKED BY: ELH 07/08  
APPROVED BY: RDP 07/08

SOIL BORING LOGS  
US 45 OVER KICKAPOO CREEK  
FAP ROUTE 824  
SECTION (16-2, 19X-2RS-1, 19B, 19BR  
COLES COUNTY  
STATION 1381+22.50  
STRUCTURE NO. 015-2023

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET
FAP 824	*	COLES	52	43
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
			Contract #74157 *16-2, 19X-2)RS-1, 19B, 19BR	

SHEET NO. 9  
9 SHEETS



When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".

**NOTES**

**Detail I - With Bar Splicer or Couplers:**  
Connect one (1) 1"x7"x10" steel PL to the top layer of couplers with 2-5/8" φ bolts screwed to coupler at approximate CL of each barrier panel.

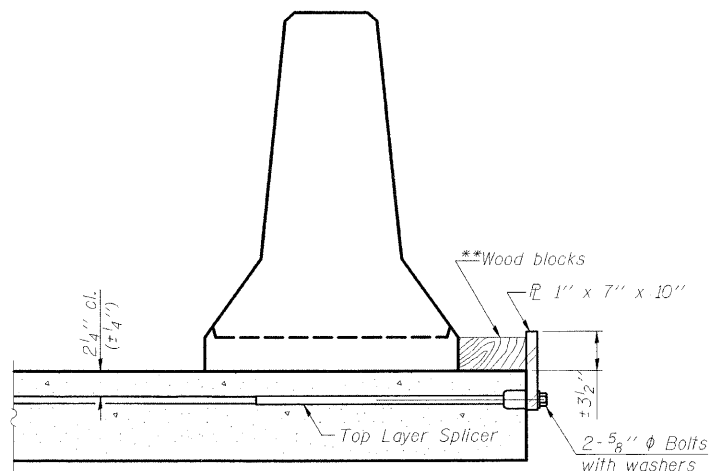
**Detail II - With Extended Reinforcement Bars:**  
Connect one (1) 1"x7"x10" steel PL to the concrete slab or concrete wearing surface with 2-5/8" φ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate CL of each barrier panel.

Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x 10" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

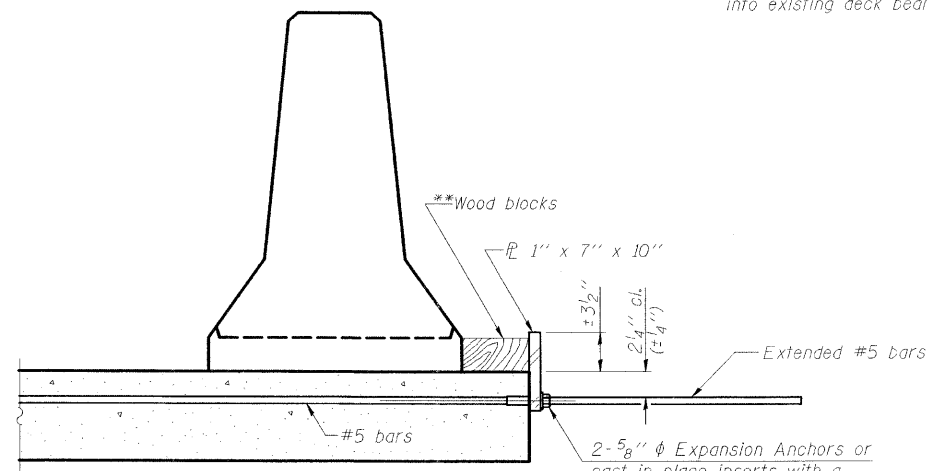
**SECTIONS THRU SLAB OR DECK BEAM**

\*\*\*Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

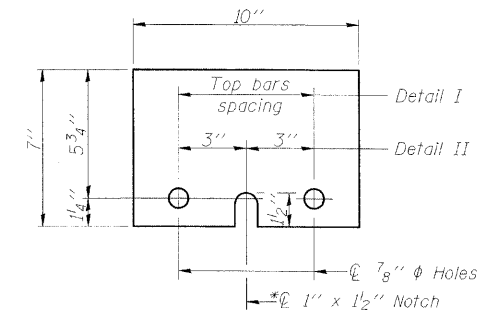
\*\*\*\*If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



**DETAIL I**



**DETAIL II**



**STEEL RETAINER PL 1' x 7' x 10"**

\*Required only with Detail II

\*\*Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

**TEMPORARY CONCRETE BARRIER  
FOR STAGE CONSTRUCTION  
US 45 OVER KICKAPOO CREEK  
FAP ROUTE 824  
SECTION (16-2, 19X-2)RS-1, 19B, 19BR  
COLES COUNTY  
STATION 1381+22.50  
STRUCTURE NO. 015-2023**

**ESCA**  
CONSULTANTS, INC.

DESIGNED BY:	DAJ	07/08
DRAWN BY:	HAS	07/08
CHECKED BY:	ELH	08/08
APPROVED BY:	RDP	08/08

## TOTAL BILL OF MATERIALS

SN 015-0025

ITEM DESCRIPTION	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	6.9
Concrete Superstructure	Cu. Yd.	6.9
Reinforcement Bars, Epoxy Coated	Pound	1520
Hot-Mix Asphalt Removal (Deck)	Sq. Yd.	142
Hot-Mix Asphalt Surface Course, Mix "C", N90	Ton	35.0
Deck Slab Repair (Partial Depth)	Sq. Yd.	16
Deck Slab Repair (Full Depth Type I)	Sq. Yd.	8
Deck Slab Repair (Full Depth Type II)	Sq. Yd.	6
Waterproofing Membrane System	Sq. Yd.	142

### GENERAL NOTES

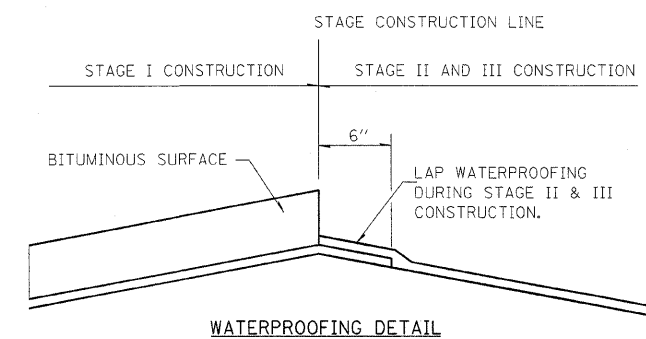
Reinforcement bars shall conform to the requirements of ASTM A 706 Grade 60. See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

Plan dimensions and details relative to existing plans are subject to routine variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensations for a change in scope of the work; however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.

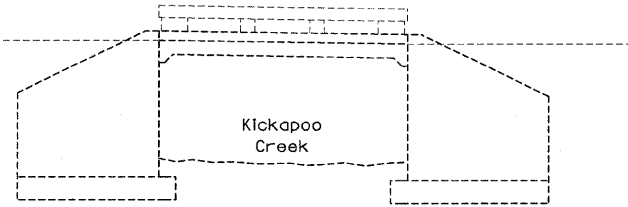
Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost included in concrete removal.

Areas of deck repairs shown are estimated. The Engineer shall show actual locations of deck repairs on as-built plans.

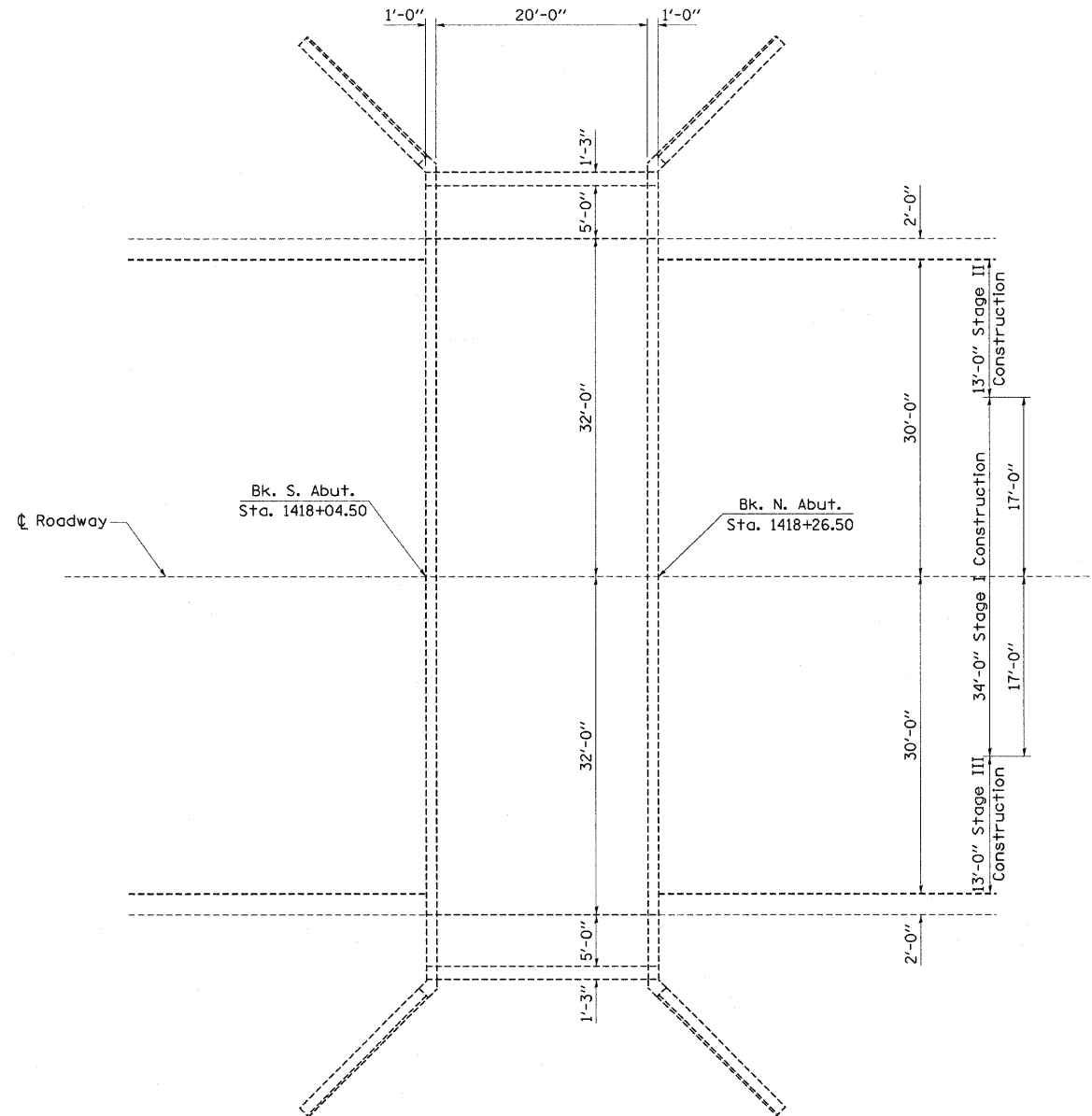


SHEET NO. 1  
6 SHEETS

FILE NAME =	USER NAME = swartzw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>BRIDGE GENERAL NOTES &amp; BILL OF MATERIALS SN. 015-0025</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ca:\pw_work\pwi\dot\swartzw\dms35420\p101	propbr-74157.dgn	DRAWN -	REVISED -			824	(16-2,19X-2)RS-1,19B,19BR	COLES/CUMB	52	44	
		CHECKED -	REVISED -			CONTRACT NO. 74157					
		DATE -	REVISED -			SCALE: N/A	SHEET NO. 1 OF 6 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT



**ELEVATION**



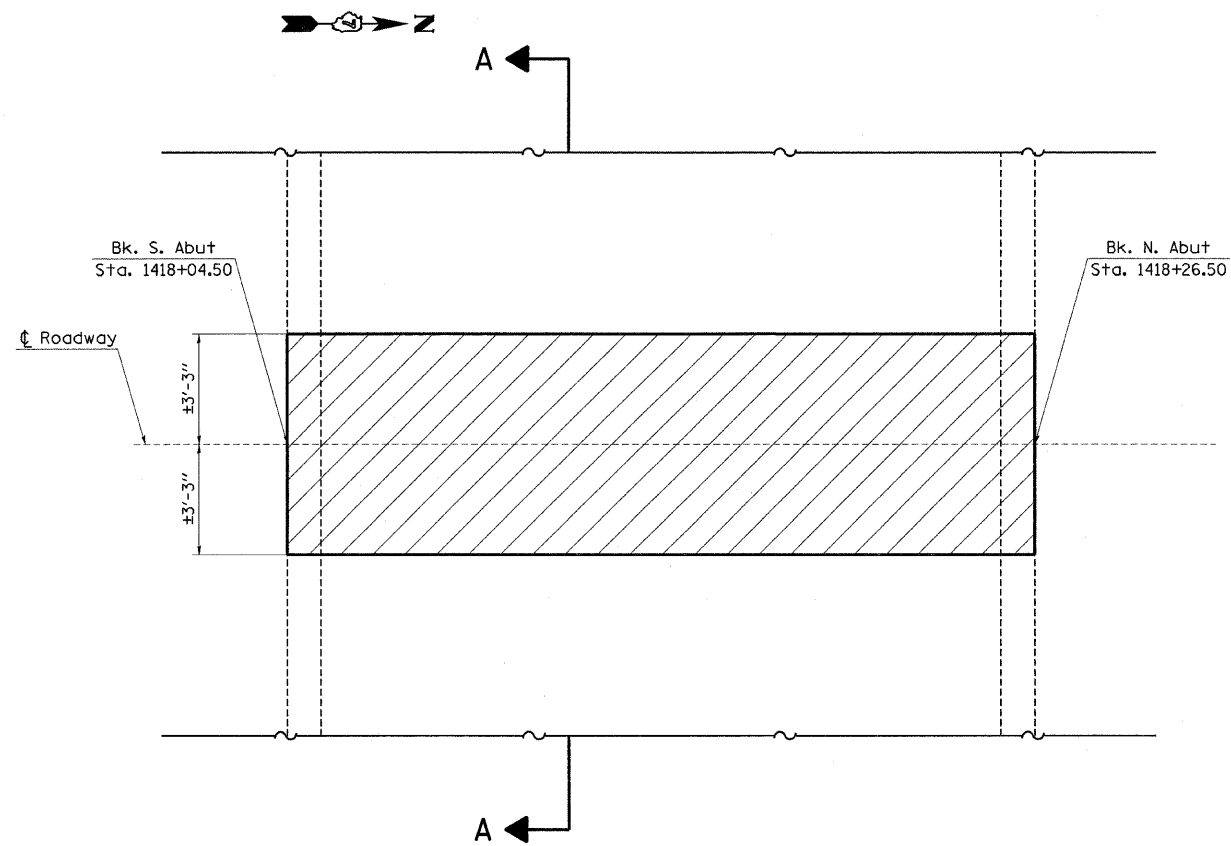
**PLAN**



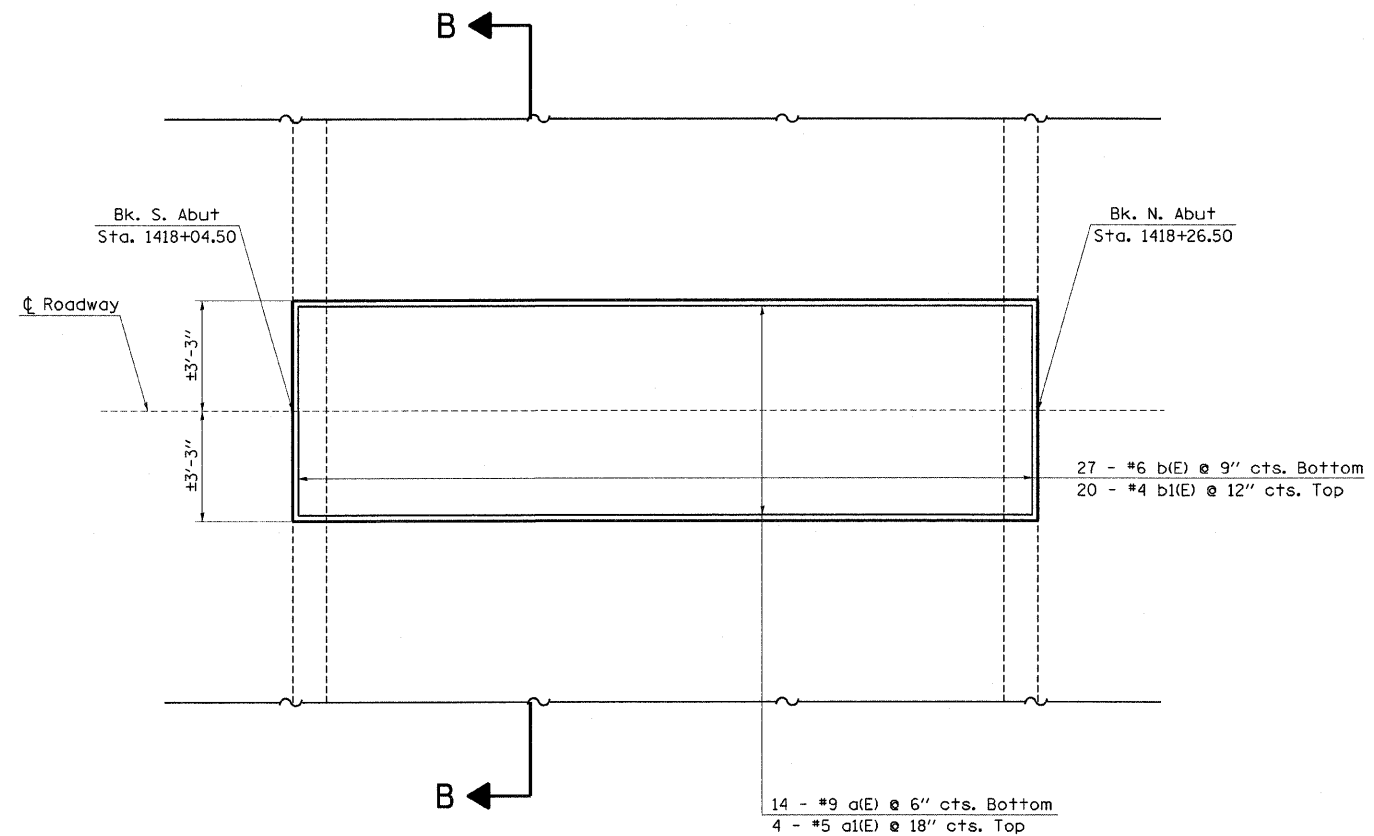
*Expires Nov. 30, 2010*

SHEET NO. 2  
6 SHEETS

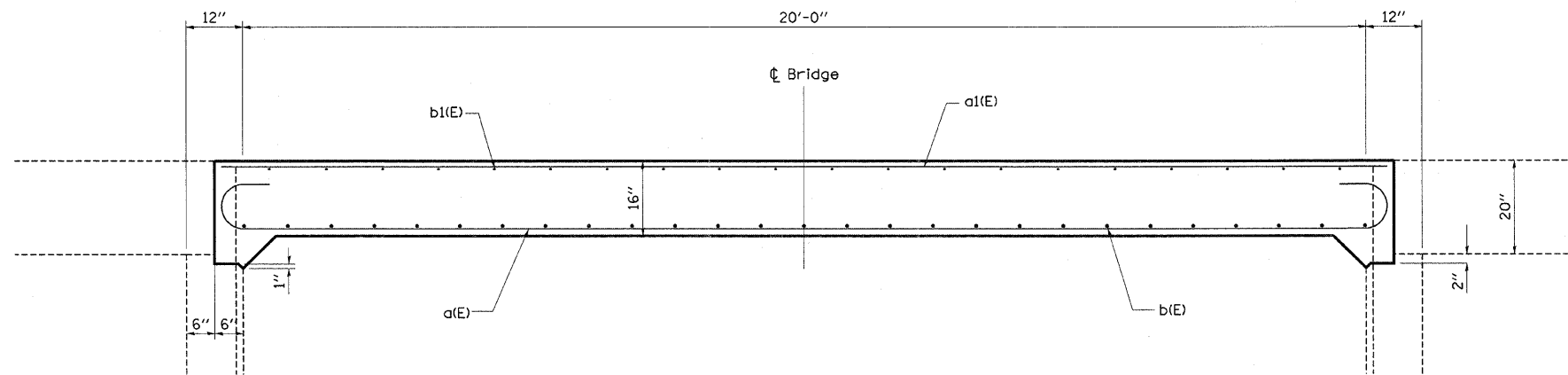
FILE NAME =	USER NAME = swartzw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL PLAN &amp; ELEVATION SN. 015-0025</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pw_work\pwi\dot\swartzw\dms35420\pl	propbr_74157.dgn	DRAWN -	REVISED -		SCALE: N/A	SHEET NO. 2 OF 6 SHEETS	STA.	TO STA.	824	(16-2,19X-2)RS-1,19B,19BR	COLES,CUMB	52	45
	PLOT SCALE = 20,0000' / IN.	CHECKED -	REVISED -					CONTRACT NO. 74157					
	PLOT DATE = 10/17/2008	DATE -	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					



**EXISTING PARTIAL PLAN**



**PROPOSED PARTIAL PLAN**







**LONGITUDINAL SECTION**

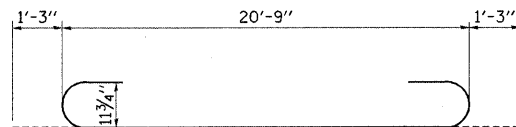
SHEET NO. 3  
6 SHEETS

FILE NAME =	USER NAME = swartzm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CENTERLINE JOINT REPLACEMENT DETAILS SN. 015-0025</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwwork\pwwork\swartzm\dms35420\planning\propbr_74157.dgn	PROPBR_74157.dgn	DRAWN -	REVISED -		SCALE: N/A	SHEET NO. 3 OF 6 SHEETS	STA.	TO STA.	824	(16-2,19X-2)RS-1,19B,19BR	COLES,CUMB	52	46
PLOT SCALE = 20,0000' / IN.		CHECKED -	REVISED -					CONTRACT NO. 74157					
PLOT DATE = 10/17/2008		DATE -	REVISED -					ILLINOIS FED. AID PROJECT					

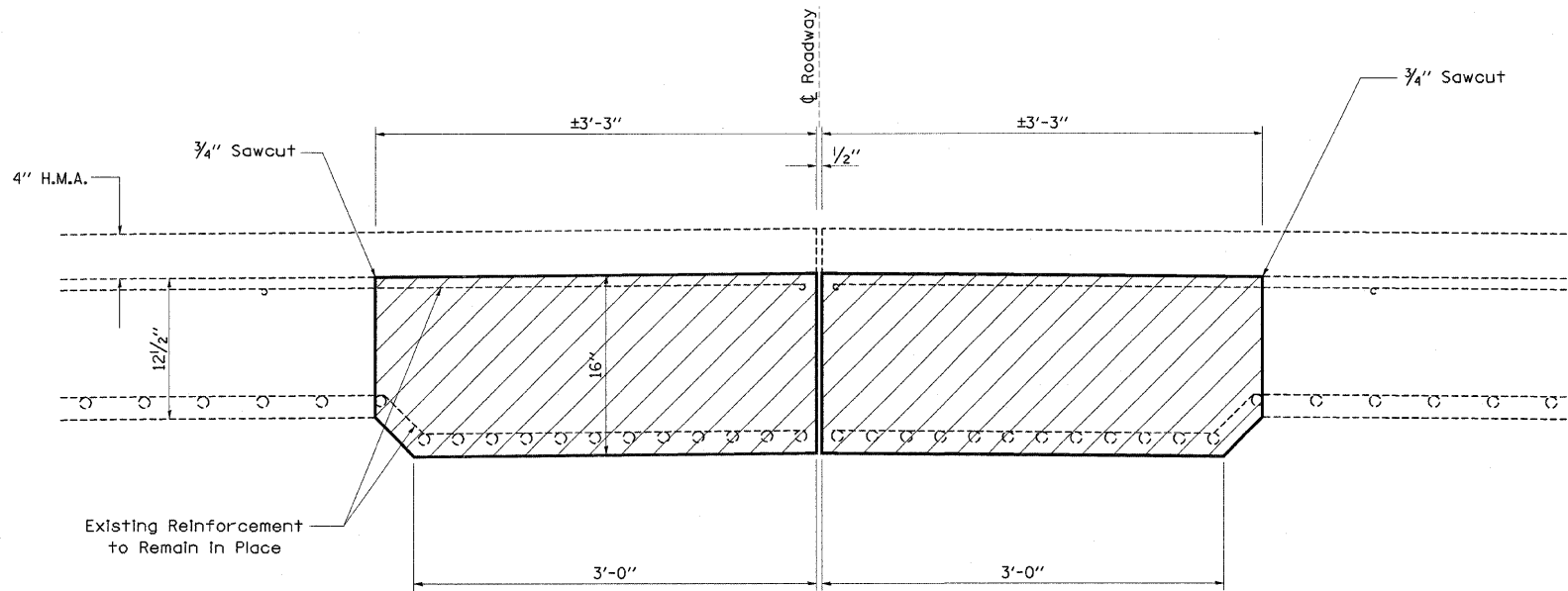
### BILL OF MATERIAL

BAR	TOTAL	SIZE	LENGTH	SHAPE
a(E)	14	#9	23'-4"	
a1(E)	4	#5	20'-9"	
b(E)	27	#6	6'-3"	
b1(E)	20	#4	5'-0"	
CONCRETE REMOVAL			CU. YD.	6.9
REINFORCEMENT BARS (EPOXY COATED)			POUND	1520
CONCRETE SUPERSTR.			CU. YD.	6.9

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED

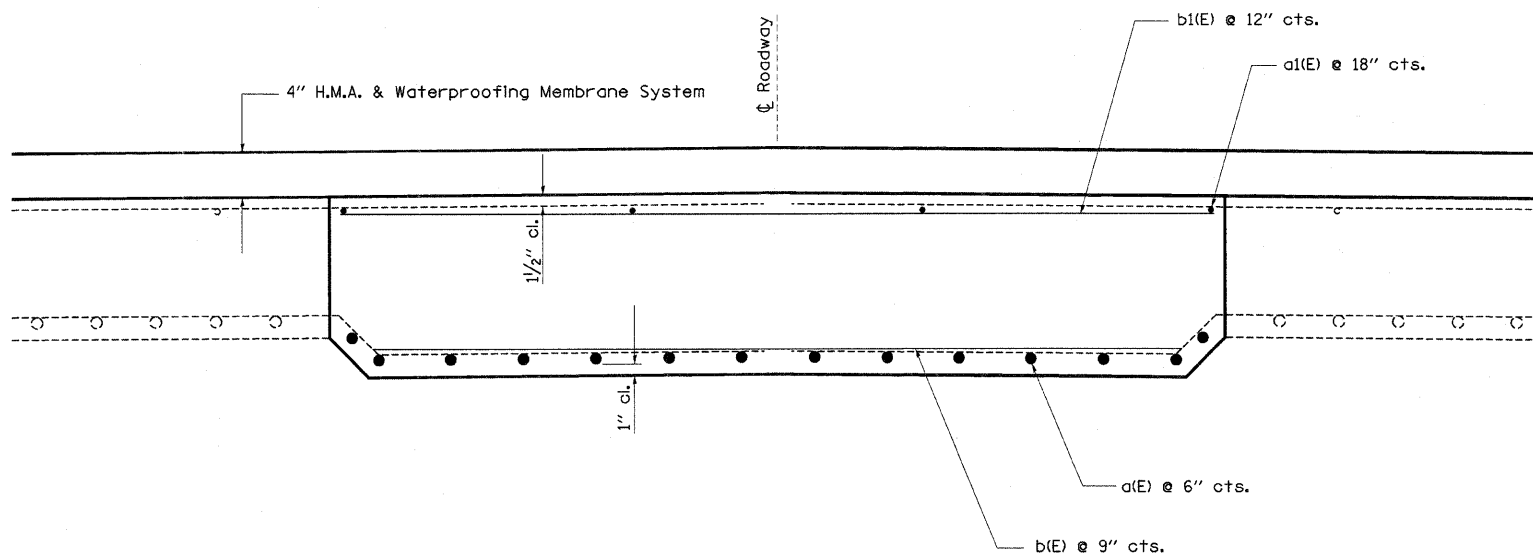


Bar a(E)



**SECTION A-A**  
(Dimensions at RT L's to end of deck)

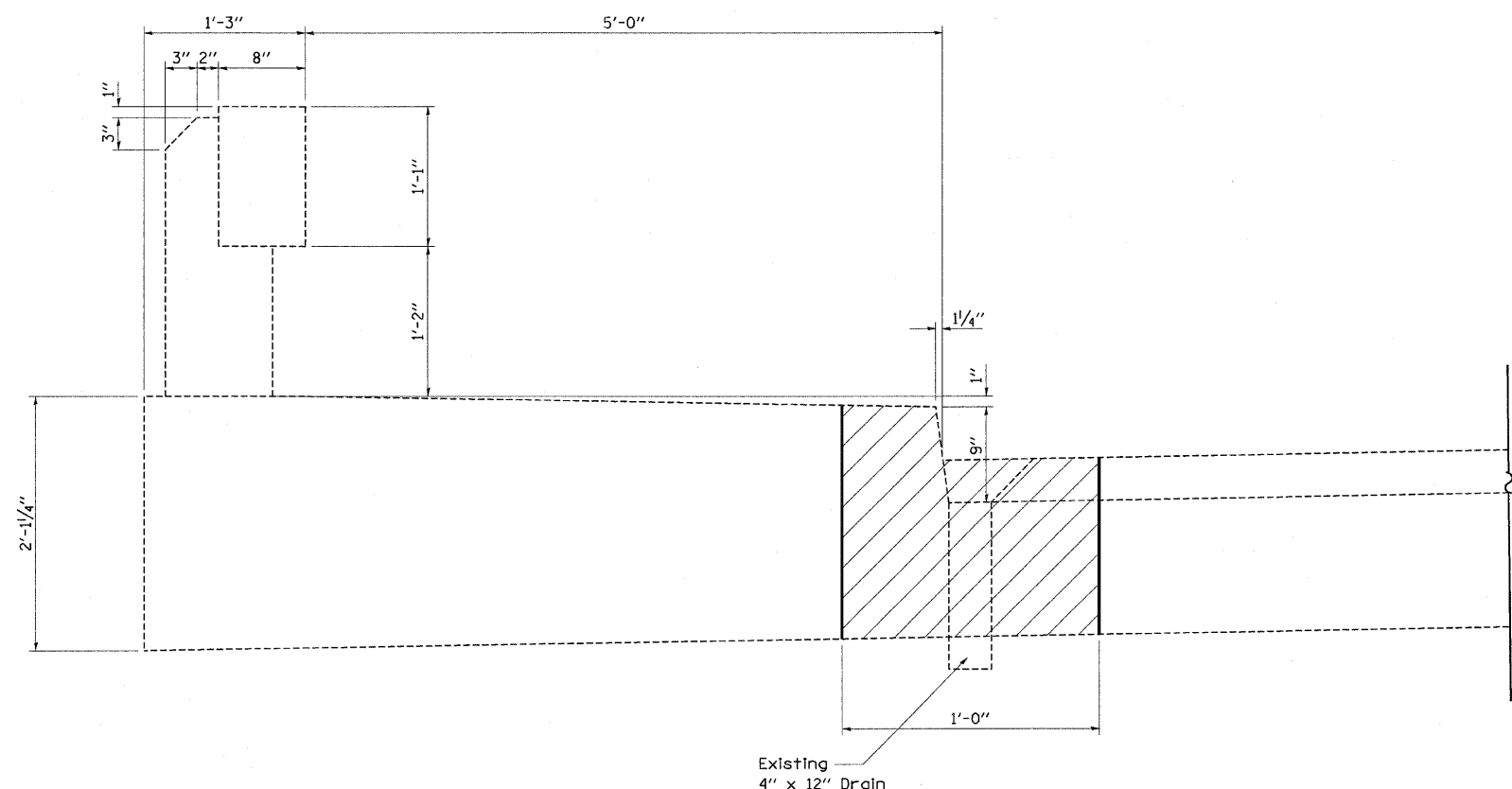
- Existing Reinforcement
- Proposed Reinforcement



**SECTION B-B**  
(Dimensions at RT L's to end of deck)

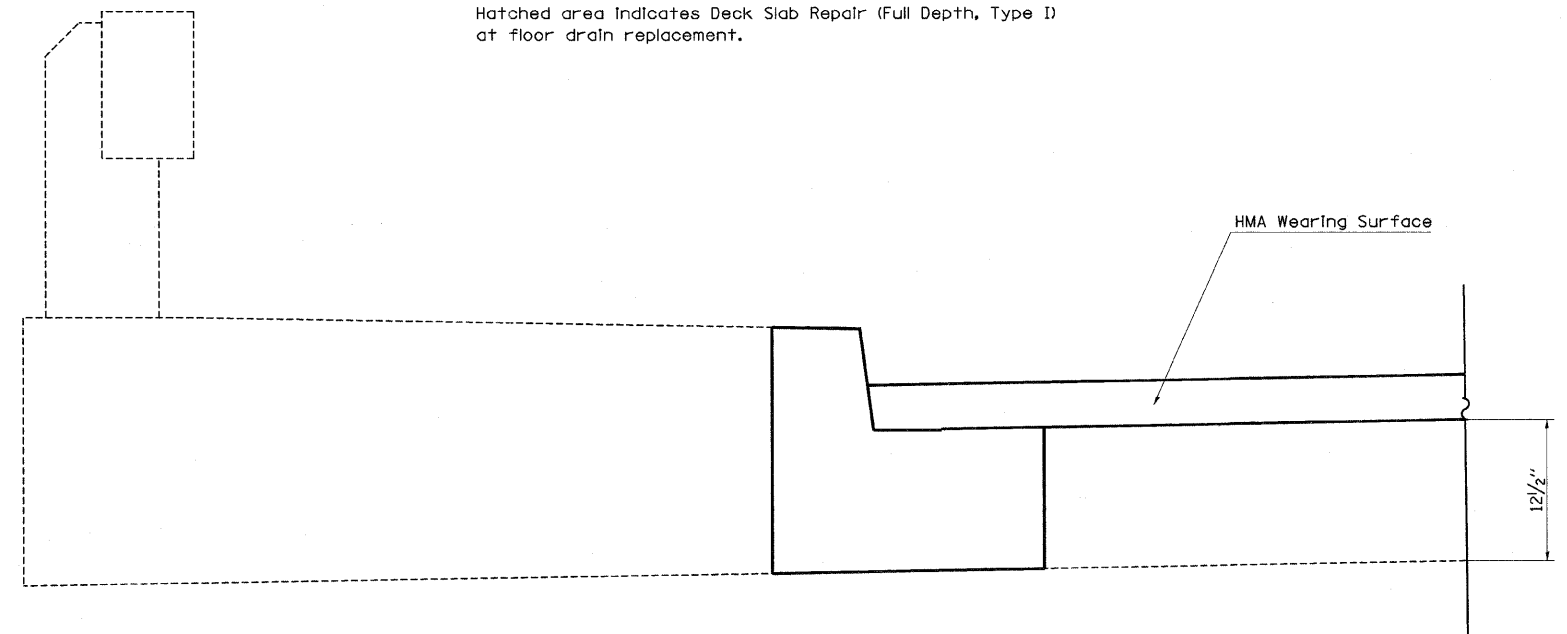
SHEET NO. 4  
6 SHEETS

FILE NAME =	USER NAME = swartzw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LONGITUDINAL JOINT REPAIR DETAILS SN. 015-0025</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwwork\pwwork\swartzw\dms35420\plot\propbr_74157.dgn	DRAWN -	REVISED -	824			(16-2,19X-2)RS-1, 19B,19BR	COLES/CUMB	52	47	
PLOT SCALE = 20,0000' / IN.	CHECKED -	REVISED -	CONTRACT NO. 74157							
PLOT DATE = 10/17/2008	DATE -	REVISED -	FED. ROAD DIST. NO.			ILLINOIS	FED. AID PROJECT			



**SECTION THRU EXISTING FLOOR DRAIN**

Hatched area indicates Deck Slab Repair (Full Depth, Type I) at floor drain replacement.



**DRAIN REMOVAL DETAIL**

Drain not to be replaced.

Note: See "Bridge Deck Patching" plan sheets for Floor Drain replacement locations. See "Total Bill of Materials" for each structure for quantities.

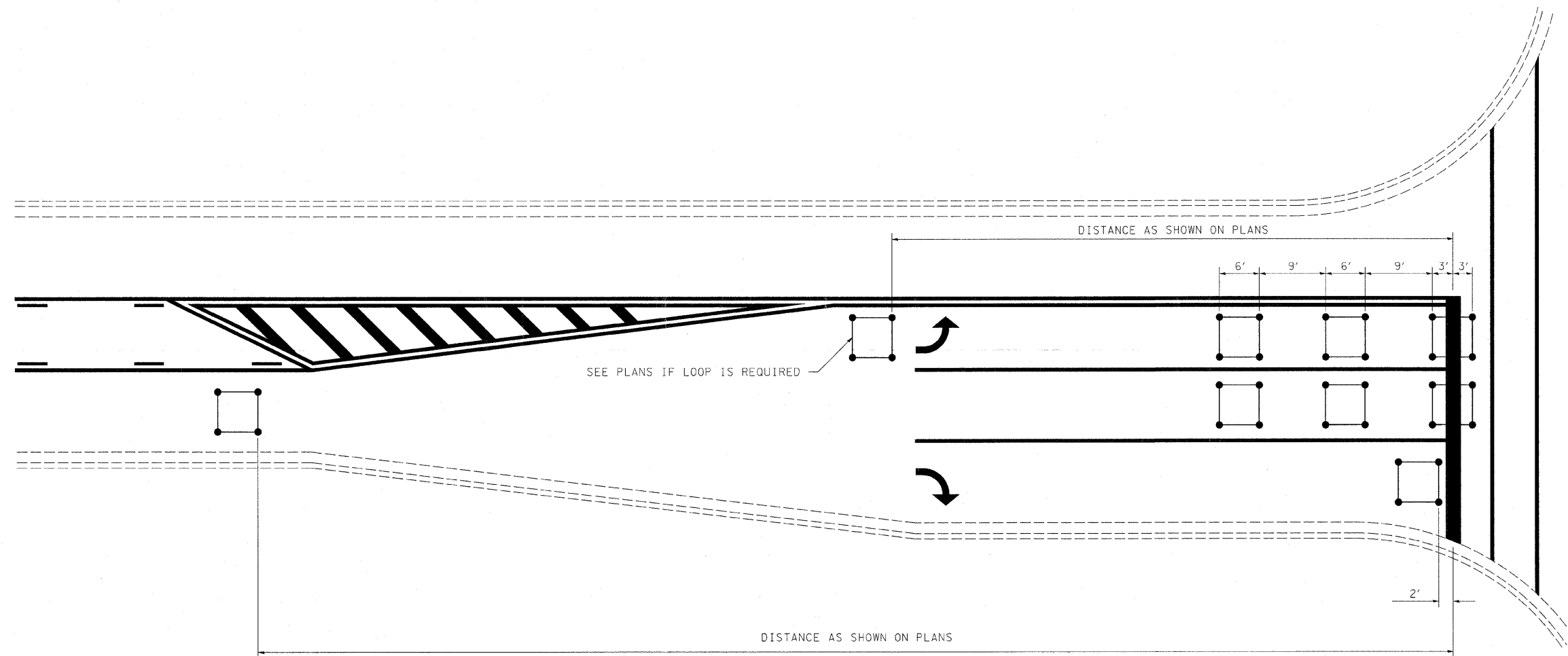
SHEET NO. 5  
6 SHEETS

FILE NAME =	USER NAME = swartzw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>FLOOR DRAIN REMOVAL DETAIL SN. 015-0025</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwork\pwork\swartzw\dms35420\pl...	propbr-74157.dgn	DRAWN -	REVISED -			824	(16-2,19X-2)RS-1,19B,19BR	COLES,CUMB	52	48	
PLOT SCALE = 20,000 ' / IN.		CHECKED -	REVISED -			CONTRACT NO. 74157					
PLOT DATE = 10/17/2009		DATE -	REVISED -			SCALE: N/A	SHEET NO. 5 OF 6 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT





## TYPICAL APPLICATION OF DETECTOR LOOPS



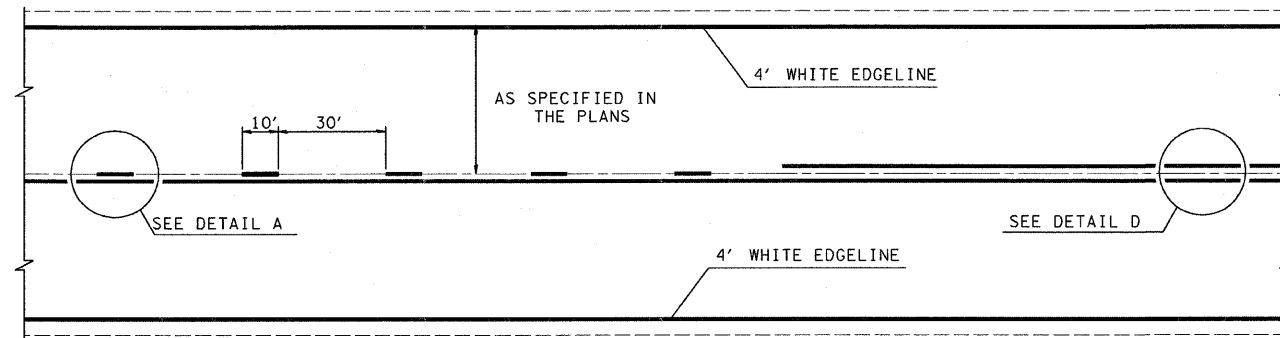
**NOTE:**

1. EACH LOOP SHALL HAVE ITS OWN HOMERUN TO THE GULFBOX/HANDHOLE.
2. LOOPS SHOULD BE CENTERED IN EACH LANE.
3. USE 6' BY 6' LOOPS FOR LANE WIDTHS OF 11' OR GREATER.
4. USE 5' BY 5' LOOPS IF LANE WIDTH IS LESS THAN 11'.

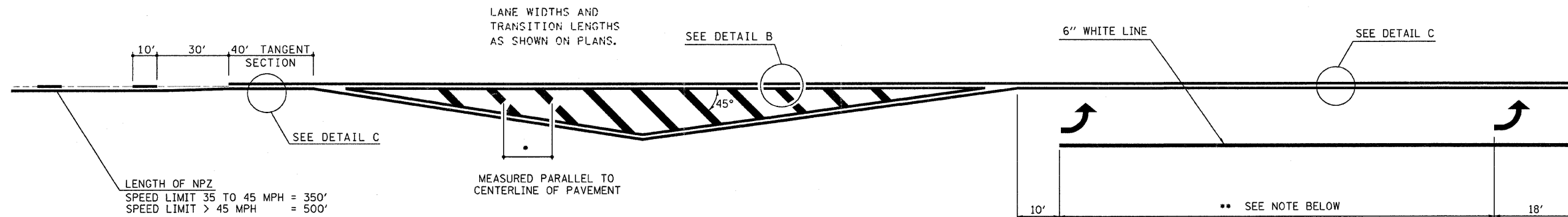
NOT TO SCALE

• COLES/CUMBERLAND

FILE NAME =	USER NAME = swartzw	DESIGNED -	REVISED - MKS 4-08	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL APPLICATIONS OF DETECTOR LOOPS</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ca:\pw_work\p\dot\swartzw\dms50699\shht\et.74157.dgn		DRAWN -	REVISED -			824	(16-2,19X-2)RS-1,19B,19BR	•	52	50	
PLOT SCALE = 50,0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 74157					
PLOT DATE = 10/17/2008		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					



TYPICAL CENTERLINE, NO PASSING ZONE LINE (NPZ) & EDGELINE MARKINGS  
2-LANE PAVEMENT



LENGTH OF NPZ  
SPEED LIMIT 35 TO 45 MPH = 350'  
SPEED LIMIT > 45 MPH = 500'

LANE WIDTHS AND  
TRANSITION LENGTHS  
AS SHOWN ON PLANS.

SEE DETAIL B

6" WHITE LINE

SEE DETAIL C

MEASURED PARALLEL TO  
CENTERLINE OF PAVEMENT

•DIAGONAL SPACING

SPEED LIMIT < 30 MPH = 15'  
SPEED LIMIT 30 TO 45 MPH = 20'  
SPEED LIMIT > 45 MPH = 30'

•• PLACE THE FIRST ARROW EVEN WITH THE BEGINNING OF THE TURN BAY.  
PLACE ANOTHER ARROW 18' BACK FROM THE STOP BAR. IF REQUIRED,  
ADD ADDITIONAL ARROWS TO MAINTAIN A MAXIMUM OF 80' SPACING.

NOTES:

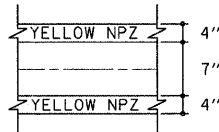
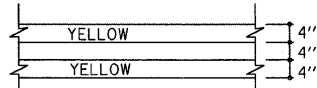
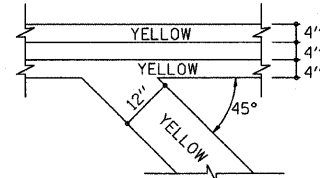
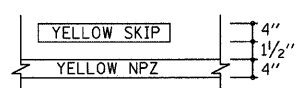
1. OMIT EDGELINE THRU SIDE ROADS.
2. TAPER RATES, LANE WIDTHS, AND STORAGE LENGTHS AS SHOWN ON THE PLANS.
3. WHEN MEDIANS ARE PRESENT, PLACE A SINGLE YELLOW STRIPE AROUND ITS PERIMETER.

DETAIL A

DETAIL B

DETAIL C

DETAIL D

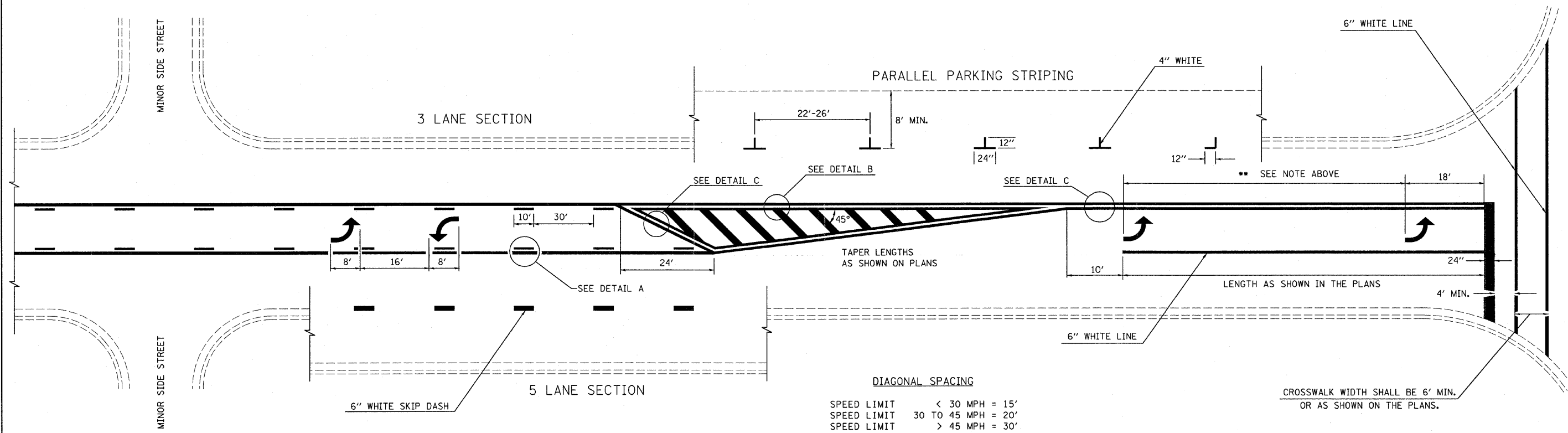


NOT TO SCALE

• COLES/CUMBERLAND

FILE NAME =	USER NAME = swartzr	DESIGNED -	REVISED - MMO 12-99	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL APPLICATIONS OF PAVEMENT MARKINGS SHEET 1 OF 2</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0:\pwwork\pwwidot\swartzr\dms58699\shht	et.74157.dgn	DRAWN -	REVISED - DRM 08-04					824	(16-2,19X-2)RS-1,19B,19BR	•	52	51
	PLOT SCALE = 50,0000' / IN.	CHECKED -	REVISED - MKS 04-08		CONTRACT NO. 74157							
	PLOT DATE = 10/17/2008	DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
					SCALE: N/A	SHEET NO.	OF SHEETS	STA.	TO STA.			

•• PLACE THE FIRST ARROW EVEN WITH THE BEGINNING OF THE TURN BAY.  
 PLACE ANOTHER ARROW 18' BACK FROM THE STOP BAR. IF REQUIRED.  
 ADD ADDITIONAL ARROWS TO MAINTAIN A MAXIMUM OF 80' SPACING.



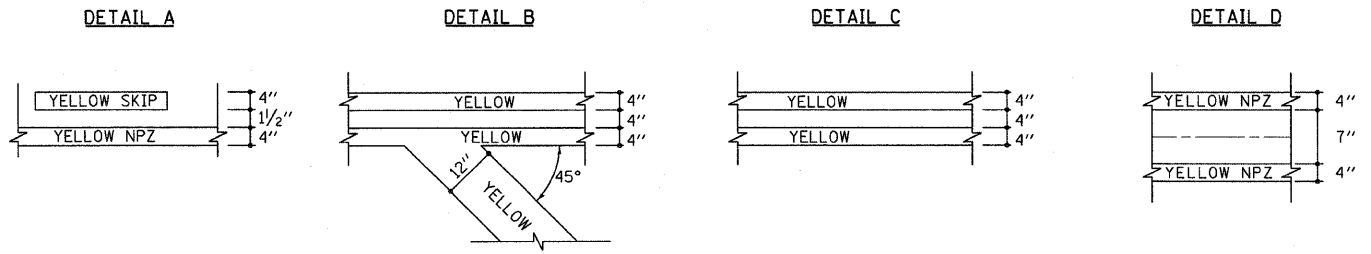
**DIAGONAL SPACING**

SPEED LIMIT	< 30 MPH	= 15'
SPEED LIMIT	30 TO 45 MPH	= 20'
SPEED LIMIT	> 45 MPH	= 30'

CROSSWALK WIDTH SHALL BE 6' MIN.  
 OR AS SHOWN ON THE PLANS.

**TYPICAL BI-DIRECTIONAL TURN LANE MARKINGS**  
 (SHOWING TRANSITION TO EXCLUSIVE LEFT TURN LANE)

- NOTE:**
1. NO LESS THAN 2 ARROWS SHALL BE USED.
  2. TAPER RATES, LANE WIDTHS, AND STORAGE LENGTHS AS SHOWN ON THE PLANS.
  3. AVOID PLACING BI-DIRECTIONAL ARROWS IN INTERSECTIONS.
  4. BI-DIRECTIONAL ARROWS SHALL BE SPACED A MAXIMUM OF 250'.



NOT TO SCALE