

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**IDOT /IDNR STATEWIDE  
MISSISSIPPI PALISADES STATE PARK  
PARK ROADS (PINE KNOB ROAD)**

**SECTION PARK ROADS-2  
IDOT PROJECT NO. C-30-006-10  
IDNR PROJECT 01-08-001  
CARROLL COUNTY**

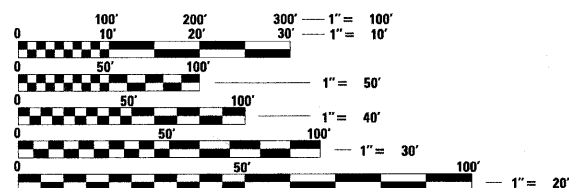
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PINE KNOB ROAD	CARROLL	35	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 46093		
IDNR PROJECT #01-08-001				

**INDEX OF SHEETS**

- 1 COVER SHEET
- 2 SUMMARY OF QUANTITIES
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- 17-18 PAVEMENT MARKING DETAILS
- 19-23 DISTRICT DETAILS
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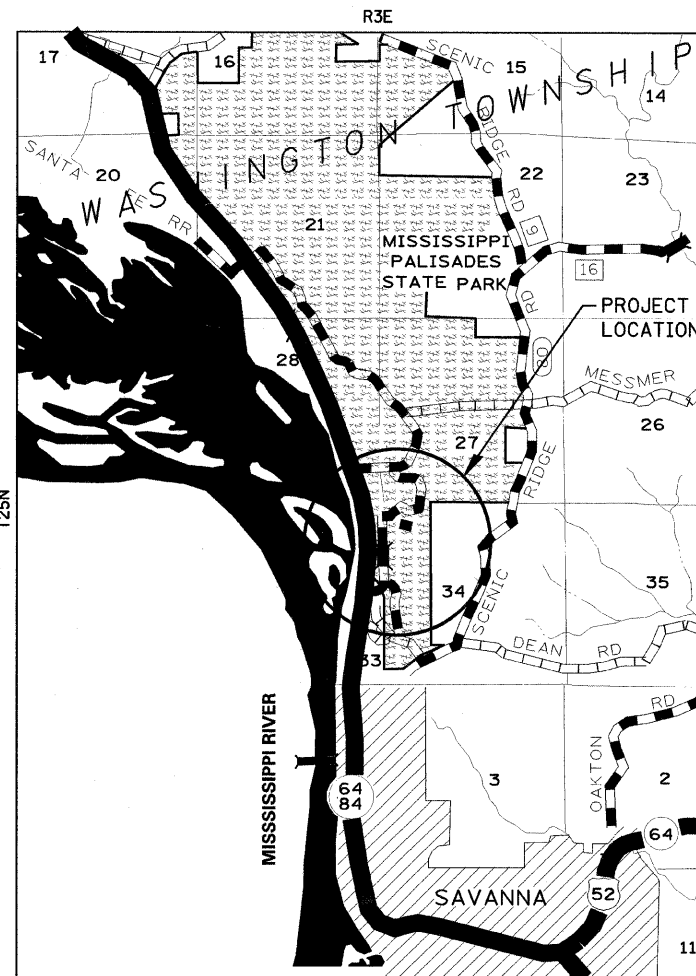
**STATE STANDARDS**

- 000001-05 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 280001-05 TEMPORARY EROSION CONTROL SYSTEMS
- 542301-02 PRECAST REINFORCED CONCRETE FLARED END SECTION
- 602306-02 INLET - TYPE B
- 602401-02 MANHOLE TYPE A
- 602601-02 PRECAST REINFORCED CONCRETE FLAT SLAB TOP
- 602701-02 MANHOLE STEPS
- 630001-08 STEEL PLATE BEAM GUARDRAIL
- 635001-01 DELINEATORS
- 701006-03 TRAFFIC CONTROL DEVICES
- 701201-03 TYPICAL PAVEMENT MARKINGS
- 701301-03 OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
- 701901-01 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
- 720011-01 METAL POST FOR SIGNS, MARKERS & DELINEATORS
- 728001-01 TELESCOPING STEEL SIGN SUPPORT
- 729001-01 APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGN AND MARKERS)
- 780001-02 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- BLR 21-8 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAY
- BLR 22-6 TYPICAL APPLICATIONS OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS



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



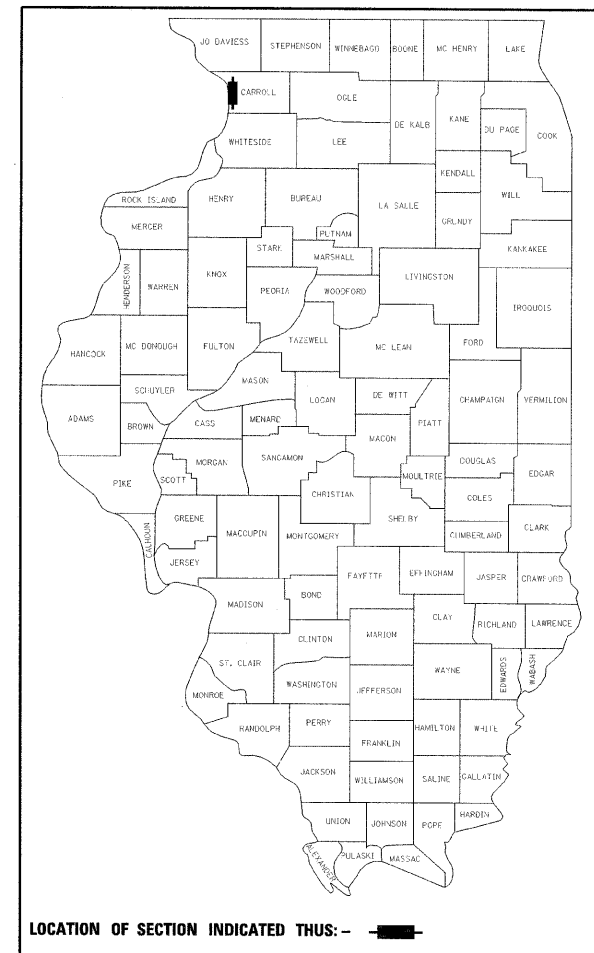
**LOCATION MAP**

GROSS LENGTH = 8,606' FT = 1.630 MILES  
NET LENGTH = 8,606' FT = 1.630 MILES



*Philip J. Malone 2/2/10*  
SIGNATURE

EXPIRATION DATE NOV. 30, 2011



LOCATION OF SECTION INDICATED THUS: —

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED February 16 2010  
*William R. Frew*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

March 19 2010  
*Scott E. Stett, P.E./a*  
PERMISS ENGINEER OF DESIGN AND ENVIRONMENT

March 19 2010  
*Christine M. Reed/a*  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS**

CONTRACT NO. 46093

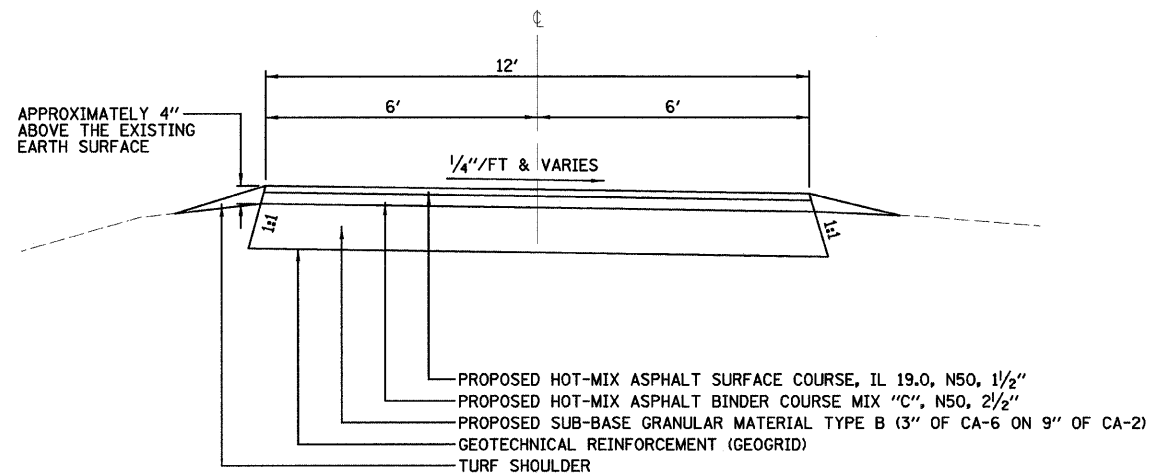
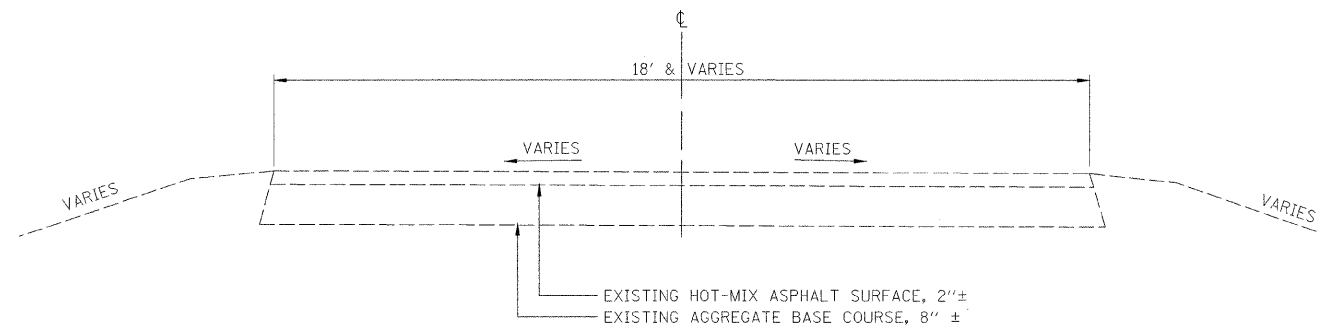
SUMMARY OF QUANTITIES

CODE NO.	ITEM	1000 100% STATE	
		UNIT	TOTAL
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	100
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	100
20100500	TREE REMOVAL, ACRES	ACRE	0.7
20200100	EARTH EXCAVATION	CU YD	11,077
20200200	ROCK EXCAVATION	CU YD	245
20800150	TRENCH BACKFILL	CU YD	407
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	619
25000100	SEEDING, CLASS 1	ACRE	2.0
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	180
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	180
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	180
25100115	MULCH, METHOD 2	ACRE	2.0
25100630	EROSION CONTROL BLANKET	SQ YD	669
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	800
28000305	TEMPORARY DITCH CHECKS	FOOT	45
28000400	PERIMETER EROSION BARRIER	FOOT	1,015
28000500	INLET AND PIPE PROTECTION	EACH	21
28100107	STONE RIPRAP, CLASS A4	SQ YD	269
28100109	STONE RIPRAP, CLASS A5	SQ YD	551
28100225	STONE RIPRAP, CLASS B3	TON	10
28200200	FILTER FABRIC	SQ YD	820
31101100	SUB-BASE GRANULAR MATERIAL, TYPE B	CU YD	9,314
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	1,000
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	33
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	2,770
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	1,440
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	298
44004000	PAVED DITCH REMOVAL	FOOT	20
44004250	PAVED SHOULDER REMOVAL	SQ YD	110
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	110
50105220	PIPE CULVERT REMOVAL	FOOT	832
542A0220	PIPE CULVERTS, CLASS A, TYPE 1 15"	FOOT	150
542A0229	PIPE CULVERTS, CLASS A, TYPE 1 24"	FOOT	35
542A1060	PIPE CULVERTS, CLASS A, TYPE 2 15"	FOOT	100

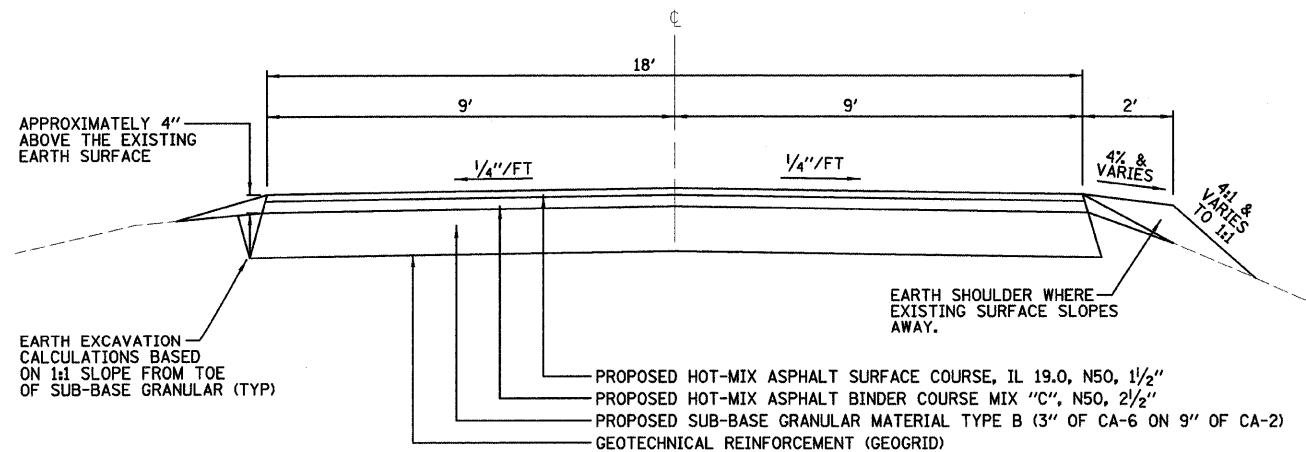
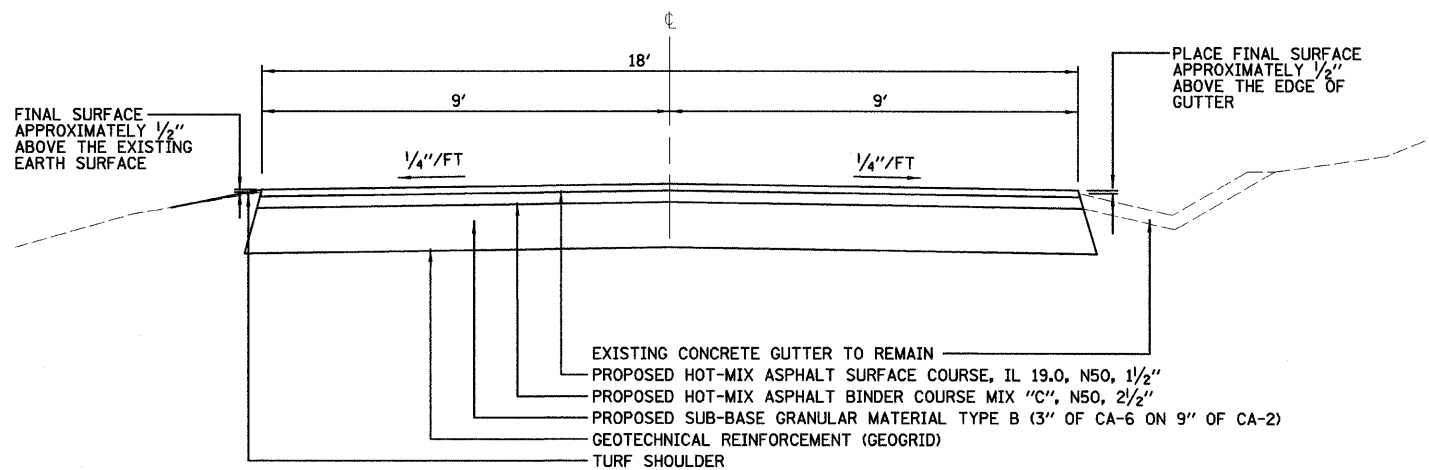
CODE NO.	ITEM	1000 100% STATE	
		UNIT	TOTAL
542A1063	PIPE CULVERTS, CLASS A, TYPE 2 18"	FOOT	35
542A1105	PIPE CULVERTS, CLASS A, TYPE 2 60"	FOOT	136
542A1117	PIPE CULVERTS, CLASS A, TYPE 2 72"	FOOT	195
542A1921	PIPE CULVERTS, CLASS A, TYPE 3 36"	FOOT	70
542A5479	PIPE CULVERTS, CLASS A, TYPE 1, EQUIVALENT ROUND SIZE 24"	FOOT	25
542A5485	PIPE CULVERTS, CLASS A, TYPE 1, EQUIVALENT ROUND SIZE 30"	FOOT	50
542A5503	PIPE CULVERTS, CLASS A, TYPE 1, EQUIVALENT ROUND SIZE 48"	FOOT	50
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	12
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	2
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	2
54213681	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	EACH	2
54213705	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 60"	EACH	4
54213717	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 72"	EACH	6
54214509	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND SIZE 24"	EACH	2
54214515	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND SIZE 30"	EACH	1
54214533	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND SIZE 48"	EACH	2
60107600	PIPE UNDERDRAINS 4"	FOOT	200
60232200	MANHOLES, SPECIAL, 5'-DIAMETER, TYPE 8 GRATE	EACH	1
60240390	INLETS, TYPE B, WITH SPECIAL GRATE	EACH	6
60614600	PAVED DITCH (SPECIAL)	FOOT	20
63300540	REMOVAL AND REPLACEMENT OF STEEL PLATE BEAM GUARD RAIL, SINGLE RAIL	FOOT	200
63301000	REMOVE AND RE ERRECT STEEL PLATE BEAM GUARD RAIL	FOOT	600
63500105	DELINEATORS	EACH	10
66300105	CALCIUM CHLORIDE APPLIED	TON	18
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4
67100100	MOBILIZATION	L SUM	1
70103700	TRAFFIC CONTROL COMPLETE	L SUM	1
* 78001100	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	44
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	3,515
* 78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	25
Z0013798	CONSTRUCTION LAYOUT	L SUM	1
Z0019600	DUST CONTROL WATERING	UNIT	25
Z0028415	GEOTECHNICAL REINFORCEMENT	SQ YD	22,400
X0300019	REMOVE AND REINSTALL PARKING BLOCKS	EACH	58
X0324056	REMOVAL OF EXISTING WOOD BOLLARDS	EACH	30
X0325820	GATE SPECIAL, 25'	EACH	1

\* SPECIALTY ITEM

DESIGNED - LAW	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS</b>	<b>SUMMARY OF QUANTITIES</b>		<b>IDOT/IDNR STATEWIDE MISSISSIPPI PALISADES STATE PARK PINE KNOB ROAD</b>	F.A.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
DRAWN - DRR	REVISED -		SCALE:	SHEET NO. 2 OF 35 SHEETS		STA.	TO STA.	PINE KNOB ROAD	CARROLL	35	2	
CHECKED - PJM	REVISED -						<b>CONTRACT NO. 46093</b>					
DATE - 01/27/10	REVISED -						FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					



NOTE:  
SLOPE AWAY FROM PINE KNOB.  
SET ELEVATION OF ROADWAY  
TO ACCOMMODATE DRAINAGE.



THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT

MIXTURE USE(S):	HOT-MIX ASPHALT SURFACE COURSE	HOT-MIX ASPHALT BINDER COURSE
PG	58-22	58-22
DESIGN AIR VOIDS	3.0% @ N50 DESIGN	3.0% @ N50 DESIGN
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL 9.5 OR IL 12.5	IL 19.0
FRICTION AGGREGATE	MIX C	N/A
TRAFFIC FACTOR	< 0.1	< 0.1

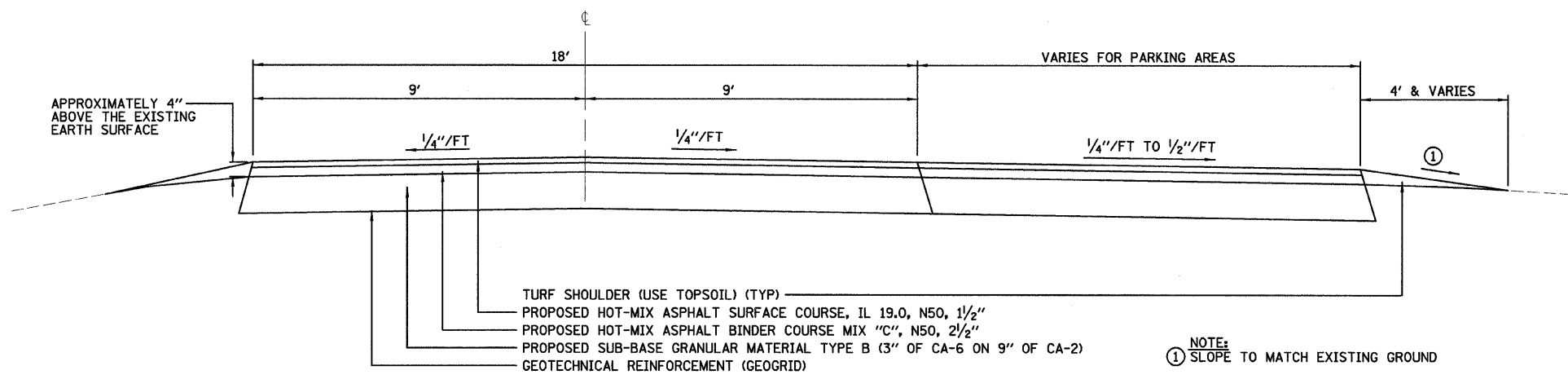
DESIGNED - LAW	REVISED
DRAWN - DRR	REVISED -
CHECKED - PJM	REVISED -
DATE - 01/27/10	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

TYPICAL SECTIONS AND  
MISCELLANEOUS DETAILS

IDOT/IDNR STATEWIDE  
MISSISSIPPI PALISADES STATE PARK  
PINE KNOB ROAD

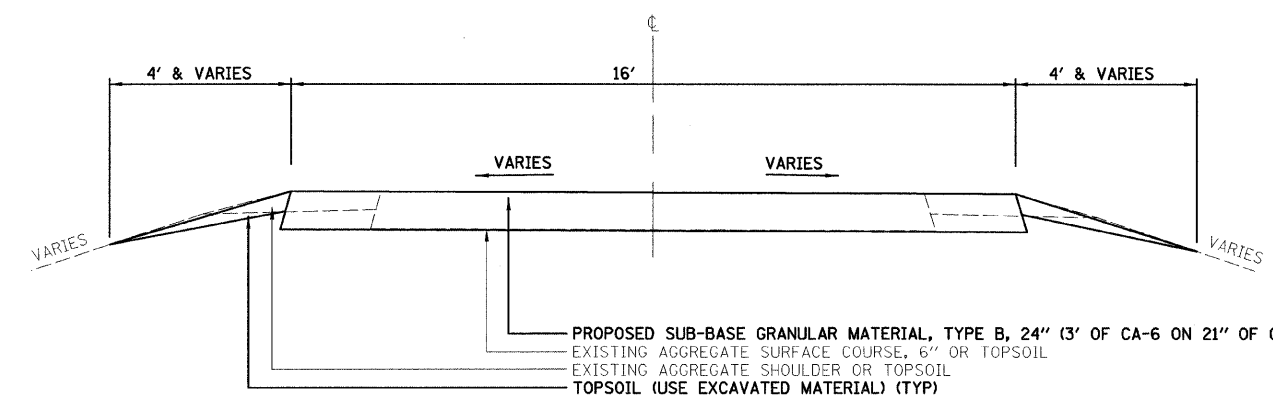
F.A.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PINE KNOB ROAD	CARROLL	35	3
CONTRACT NO. 46093				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
REVISED 02/09/10 DRR				



- TURF SHOULDER (USE TOPSOIL) (TYP)
- PROPOSED HOT-MIX ASPHALT SURFACE COURSE, IL 19.0, N50, 1 1/2"
- PROPOSED HOT-MIX ASPHALT BINDER COURSE MIX "C", N50, 2 1/2"
- PROPOSED SUB-BASE GRANULAR MATERIAL TYPE B (3" OF CA-6 ON 9" OF CA-2)
- GEOTECHNICAL REINFORCEMENT (GEOGRID)

NOTE:  
① SLOPE TO MATCH EXISTING GROUND

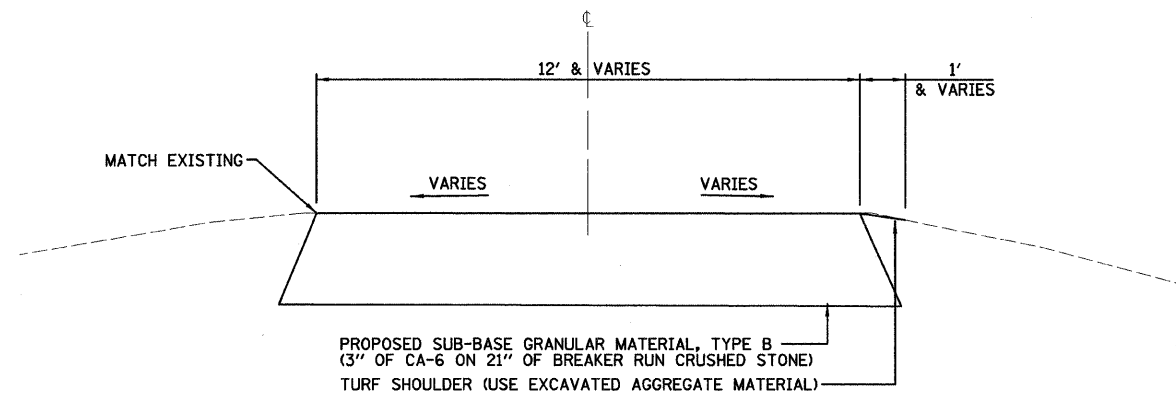
**PROPOSED TYPICAL SECTION**  
PARKING AREAS



- PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE B, 24" (3' OF CA-6 ON 21" OF CA-2) ①
- EXISTING AGGREGATE SURFACE COURSE, 6" OR TOPSOIL
- EXISTING AGGREGATE SHOULDER OR TOPSOIL
- TOPSOIL (USE EXCAVATED MATERIAL) (TYP)

NOTE:  
① EXCAVATE TO A DEPTH OF 24". STOCKPILE TOPSOIL AS REQUESTED BY THE ENGINEER. PLACE SUB-BASE GRANULAR MATERIAL TYPE B, 24" IN EXCAVATED AREA FOR CONSTRUCTION. USE STOCKPILED TOPSOIL FOR SHOULDER, SEED AND FERTILIZE.

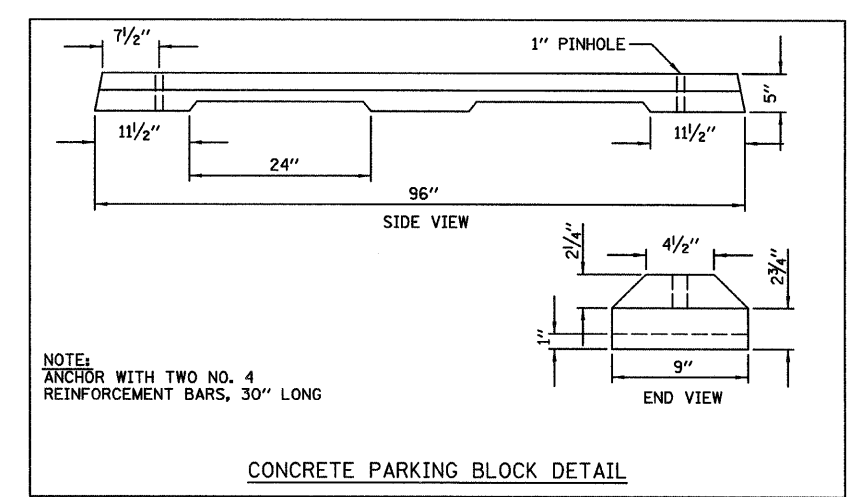
**PROPOSED TYPICAL SECTION**  
CONSTRUCTION ACCESS ROAD  
(IL RTE 84 TO PINE KNOB ROAD)  
(SCENIC RIDGE ROAD TO PINE KNOB ROAD)



- PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE B (3" OF CA-6 ON 21" OF BREAKER RUN CRUSHED STONE)
- TURF SHOULDER (USE EXCAVATED AGGREGATE MATERIAL)

NOTE:  
FOR CONSTRUCTION AND TO BE LEFT IN PLACE AFTER CONSTRUCTION.

**PROPOSED TYPICAL SECTION**  
TRUCK TURNAROUNDS



NOTE:  
ANCHOR WITH TWO NO. 4 REINFORCEMENT BARS, 30" LONG

**CONCRETE PARKING BLOCK DETAIL**

DESIGNED - LAW	REVISED -
DRAWN - DRR	REVISED -
CHECKED - PJM	REVISED -
DATE - 01/27/10	REVISED -

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

**TYPICAL SECTIONS AND**  
**MISCELLANEOUS DETAILS**

**IDOT/IDNR STATEWIDE**  
**MISSISSIPPI PALISADES STATE PARK**  
**PINE KNOB ROAD**

F.A.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PINE KNOB ROAD	CARROLL	35	4
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 46093	
REVISED 02/09/10 DRR			24-8277	

SUB-BASE GRANULAR / GEOTECHNICAL		
	GRANULAR, TYPE B	GEOTECHNICAL REINFORCEMENT
LOCATION	CU YD	SQ YD
STA 300+00 TO STA 309+04	458	1,480
STA 309+04 TO STA 386+06	5,611	18,024
STA 385+80 TO STA 386+06	25	198
STA 309+04	40	0
<b>PARKING AREAS</b>		
STA 302+07 TO STA 302+60, LT	32	112
STA 305+21 TO STA 305+84, LT	56	196
STA 306+82 TO STA 307+32, RT	38	135
STA 307+70 TO STA 308+40, LT	343	1,245
STA 344+87 TO STA 345+60, RT	47	165
STA 348+83 TO STA 350+84, RT	239	845
<b>TEMPORARY ACCESS ROADS</b>		
TRUCK TURNOUTS	2,050	
<b>TOTAL</b>	9,314	22,400

STONE RIPRAP CLASS A-5	
LOCATION	SQ YD
STA 319+24.79	37
STA 323+15.42, LT	54
STA 323+15.42, RT)	36
STA 326+15.13	40
STA 344+08.84	100
STA 376+93.71	147
STA 383+30.82	137
<b>TOTAL</b>	551

STONE RIPRAP CLASS B-3	
LOCATION	TON
STA 308+90.64	10
<b>TOTAL</b>	10

PAVING TABLE					
	BITUMINOUS MATERIALS (PRIME COAT)	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	INCIDENTAL HOT-MIX ASPHALT SURFACING	HOT-MIX ASPHALT SHOULDERS, 8"
LOCATION	TON	TON	TON		SQ YD
STA 300+00 TO STA 309+04	2.0	180	110	-	-
STA 309+04 TO STA 386+06	25.8	2,220	1,310	-	-
STA 385+80 TO STA 386+06	0.5	30	20	-	-
<b>PARKING AREAS</b>					
STA 302+07 TO STA 302+60, LT	0.2	15	-	10	-
STA 305+21 TO STA 305+84, LT	0.5	25	-	20	-
STA 306+82 TO STA 307+32, RT	0.2	20	-	15	-
STA 307+70 TO STA 308+40, RT	1.7	150	-	90	-
STA 344+87 TO STA 345+60, RT	0.2	25	-	15	-
STA 348+83 TO STA 350+84, RT	1.5	105	-	65	-
<b>TEMPORARY ACCESS ROADS</b>					
	0.4	-	-	83	110
<b>TOTAL</b>	33	2,770	1440	298	110

TRENCH BACKFILL	
LOCATION	CU YD
STA 308+90.64	2
STA 316+25.76	5
STA 319+24.79	64
STA 323+15.42	73
STA 326+15.13	18
STA 330+15.36	4
STA 340+62.84	5
STA 344+08.84	104
STA 347+23.38	7
STA 352+11.56	3
STA 355+97.00	3
STA 362+70.05	7
STA 368+65.20	7
STA 371+09.14	8
STA 374+27.15	4
STA 376+93.71	69
STA 379+36.04	3
STA 383+30.82	21
<b>TOTAL</b>	407

EROSION CONTROL BLANKET	
LOCATION	SQ YD
STA 308+90.64, LT/RT	42
STA 316+25.76, LT/RT	17
STA 319+24.79, LT	40
STA 319+24.79, RT	45
STA 323+15.46, LT/RT	22
STA 326+15.13, LT/RT	45
STA 330+15.36, RT	23
STA 340+62.84, LT/RT	46
STA 344+08.84, LT/RT	93
STA 347+23.38, RT	30
STA 352+11.56, LT	24
STA 355+97.00, LT/RT	30
STA 362+70.05, LT	29
STA 362+70.05, RT	16
STA 368+65.20, LT	13
STA 376+93.71, LT/RT	75
STA 379+36.04, LT/RT	22
STA 371+09.14, RT	14
STA 374+27.15, LT/RT	16
STA 383+30.87 LT/RT	27
<b>TOTAL</b>	669

FILTER FABRIC	
LOCATION	SQ YD
STA 316+25.76, RT	17
STA 319+24.79, RT	37
STA 323+15.42, LT & RT	90
STA 326+15.13, LT	40
STA 330+15.36, LT	17
STA 340+62.84, LT	24
STA 344+08.84, LT	100
STA 347+23.38, LT	35
STA 352+11.56, RT	9
STA 355+97.00, RT	29
STA 362+70.05, RT	20
STA 368+65.20, RT	35
STA 371+09.14, RT	35
STA 374+27.15, RT	24
STA 376+93.71, LT	147
STA 379+36.04, LT	24
STA 383+30.82, LT & RT	137
<b>TOTAL</b>	820

PIPE CULVERT REMOVAL									
	PIPE CULVERT REMOVAL, 15"	PIPE CULVERT REMOVAL, 18"	PIPE CULVERT REMOVAL, 24"	PIPE CULVERT REMOVAL, 30"	PIPE CULVERT REMOVAL, 36"	PIPE CULVERT REMOVAL, 48"	PIPE CULVERT REMOVAL, 72"	PIPE CULVERT REMOVAL, 84"	PIPE CULVERT REMOVAL, 96"
LOCATION	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT
STA 308+90.64	42								
STA 316+25.76	41								
STA 319+24.76					89				
STA 323+15.42							75		
STA 326+15.13		42							
STA 330+15.36	38								
STA 340+62.84			41						
STA 344+08.84								56	
STA 347+23.38	32								
STA 352+11.56	24								
STA 355+97.00			35						
STA 362+70.05				41					
STA 368+65.20	42								
STA 371+09.14	42								
STA 374+27.15	43								
STA 376+93.71									63
STA 379+36.04	26								
STA 383+30.82						60			
<b>TOTAL</b>	330	42	76	41	89	60	75	56	63

PERIMETER EROSION BARRIER	
LOCATION	FOOT
STA 308+90.64, LT	25
STA 316+25.76, RT	25
STA 319+24.79, RT	35
STA 330+15.36, LT	25
STA 340+62.84, LT	35
STA 344+08.84, LT	50
STA 347+23.38, RT	25
STA 368+65.20, RT	25
STA 371+09.14, RT	25
STA 374+27.15, RT	25
STA 376+93.71, LT	40
STA 379+36.04, LT	25
<b>PARKING AREA</b>	
STA 302+07, LT	110
STA 305.21, LT	150
STA 307+70, LT	395
<b>TOTAL</b>	1,015

STONE RIPRAP CLASS A-4	
LOCATION	SQ YD
STA 316+25.76	17
STA 330+15.36	17
STA 340+62.84	24
STA 347+23.28	35
STA 352+11.56	9
STA 355+97	29
STA 362+70.05	20
STA 368+65.20	35
STA 371+09.14	35
STA 374+27.15	24
STA 379+36.04	24
<b>TOTAL</b>	269

PIPE CULVERTS										
	CLASS A, TYPE 1, 15"	CLASS A, TYPE 2, 15"	CLASS A, TYPE 2, 18"	CLASS A, TYPE 1, 24"	CLASS A, TYPE 1, EQUIVALENT ROUND SIZE, 24"	CLASS A, TYPE 1, EQUIVALENT ROUND SIZE, 30"	CLASS A, TYPE 3, 36"	CLASS A, TYPE 1, EQUIVALENT ROUND SIZE, 48"	CLASS A, TYPE 2, 60"	CLASS A, TYPE 2, 72"
LOCATION	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT
STA 308+90.64	26									
STA 316+25.76	28									
STA 319+24.79							68			
STA 323+15.42										59
STA 326+15.13			33							
STA 330+15.36	29									
STA 340+62.84				32						
STA 344+08.84									132	
STA 347+23.38		29								
STA 352+11.56	25									
STA 355+97.00					21					
STA 362+70.05						46				
STA 368+65.20		29								
STA 371+09.14		37								
STA 374+27.15	24									
STA 376+93.71										132
STA 379+36.04	16									
STA 383+30.87								48		
<b>CONTINGENCY</b>	2	5	2	3	4	4	2	2	4	4
<b>TOTAL</b>	150	100	35	35	25	50	70	50	132	195

DESIGNED - LAW	REVISED -
DRAWN - DRR	REVISED -
CHECKED - PJM	REVISED -
DATE - 01/27/10	REVISED -

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

**SCHEDULE OF QUANTITIES**

**IDOT/IDNR STATEWIDE  
MISSISSIPPI PALISADES STATE PARK  
PINE KNOB ROAD**

F.A.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PINE KNOB ROAD	CARROLL	35	5
<b>CONTRACT NO. 46093</b>				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

FARNSWORTH GROUP, INC.

CONSULTING ENGINEERS - 2709 MCGRAW DRIVE BLOOMINGTON, ILLINOIS 61704 (309) 663-8435 / (309) 663-1571 FAX

REVISED 02/09/10 DRR

24-8277

PRECAST REINFORCED CONCRETE FLARED END SECTIONS									
	15"	18"	EQUIVALENT ROUND SIZE 24"	24"	EQUIVALENT ROUND SIZE 30"	36"	EQUIVALENT ROUND SIZE 48"	60"	72"
LOCATION	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
STA 308+90.64, LT/RT	2								
STA 316+25.76, LT/RT	2								
STA 319+24.79, LT/RT						2			
STA 323+15.42, LT/RT									2
STA 326+15.13, LT/RT		2							
STA 330+15.36, LT	1								
STA 340+62.84, LT/RT				2					
STA 344+08.84, LT/RT								4	
STA 347+23.38, LT	1								
STA 352+11.56, RT	1								
STA 355+97.00, LT/RT			2						
STA 362+70.05, RT					1				
STA 368+65.20, RT	1								
STA 371+09.14, RT	1								
STA 374+27.15, RT	1								
STA 376+93.71, LT/RT									4
STA 379+36.04, LT/RT	2								
STA 383+30.87, LT/RT							2		
<b>TOTAL</b>	<b>12</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>4</b>	<b>6</b>

MANHOLES	
LOCATION	MANHOLES, SPECIAL, 5'-DIA, TYPE 8 GRATE
STA 362+70.05, LT	1
<b>TOTAL</b>	<b>1</b>

INLETS	
LOCATION	INLETS, TYPE B, WITH SPECIAL GRATE
STA 330+15.36, RT	1
STA 347+23.38, RT	1
STA 368+65.20, LT	1
STA 371+09.14, LT	1
STA 374+27.15, LT	1
STA 352+11.56, LT	1
<b>TOTAL</b>	<b>6</b>

PAINT PAVEMENT MARKING			
	LETTERS AND SYMBOLS	LINE 4"	LINE 24"
LOCATION	SQ FT	FOOT	FOOT
STA 309+25, LT & RT TURN ARROW	15.6		
STA 309+12 TO 386+06		1,940	
STA 384+04			20
<b>PARKING AREA</b>			
STA 302+07, LT HANDICAP SYMBOL	4.6	155.5	
STA 305+21, LT HANDICAP SYMBOL	4.6	174	
STA 306+82, RT HANDICAP SYMBOL	4.6	174	
STA 308+00		370	
STA 344+87, RT HANDICAP SYMBOL	4.6	174	
STA 350+00, RT HANDICAP SYMBOL (2)	9.2	514.5	
<b>CONTINGENCY</b>	<b>0.8</b>	<b>13</b>	<b>5</b>
<b>TOTAL</b>	<b>44</b>	<b>3,515</b>	<b>25</b>

REMOVE AND REINSTALL PARKING BLOCKS	
LOCATION	EACH
STA 302+07 TO 302+60, LT	4
STA 305+21 TO 305+84, LT	5
STA 306+82 TO 307+32, RT	5
STA 307+70 TO 308+40, LT	19
STA 344+87 TO 345+60, RT	5
STA 348+83 TO 350+84, RT	20
<b>TOTAL</b>	<b>58</b>

ROCK EXCAVATION	
LOCATION	CUT CU YD
PIPE CULVERTS	100 *
TEMPORARY ACCESS ROAD	145 *
<b>TOTAL</b>	<b>245</b>

\* CONTINGENCY

DELINEATORS	
LOCATION	EACH
STA 308+12, LT	10
<b>TOTAL</b>	<b>10</b>

EARTH WORK TABLE												
STATION TO STATION	RAW EARTH EXCAVATION CU YD	RAW EARTH FILL CU YD	TOP SOIL CUT CU YD	TOP SOIL FILL CU YD	EARTH EXCAVATION PLUS TOPSOIL CU YD	APPROXIMATE VOLUME OF ASPHALT IN EARTH EXCAVATION CU YD (1)	EARTH EXCAVATION ADJUSTED FOR ASPHALT CU YD (1)	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (25%) CU YD	FILL ADJUSTED FOR TOPSOIL CU YD	TOTAL TOPSOIL VOLUME CU YD	ADJUSTED FILL MINUS ADJUSTED EARTH EXCAVATION EQUALS WASTE (+) OR BORROW (-) CU YD (3)	
<b>LOOP ROAD</b>												
STA 300+00 TO STA 309+00	532	56	0	22	532	101	431	323	34	22	+289	
<b>PINE KNOB ROAD</b>												
STA 309+10 TO STA 347+68	3,369	231	0	231	3,369	643	2,726	2,045	0	231	+2,045	
STA 347+68 TO STA 386+06	3,760	339	0	339	3,760	640	3,120	2,340	0	339	+2,340	
TEMPORARY ACCESS ROADS	2,190	0	0	0	2,190	0	2,190	1,643	0	0	+1,643	
PARKING AREAS	844	0	0	27	844	0	844	633	0	27	+633	
TRUCK TURNOUTS (5 EACH)	382	0	0	0	382	0	382	287	0	0	+287	
<b>CONTINGENCY EMBANKMENT (2)</b>	<b>0</b>	<b>1,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,000</b>	<b>0</b>	<b>-1,000</b>	
<b>TOTAL</b>	<b>11,077</b>	<b>1,626</b>	<b>0</b>	<b>619</b>	<b>11,077</b>	<b>1,384</b>	<b>9,693</b>	<b>7,271</b>	<b>1,034</b>	<b>619</b>	<b>6,237</b>	

(1) VOLUME OF ASPHALT IN CUT IS CALCULATED AND SHOWN FOR REFERENCE ONLY. THE VOLUME MUST BE DEDUCTED FROM THE TOTAL EARTH EXCAVATION VOLUME TO DETERMINE USEABLE EARTH EXCAVATION FOR EMBANKMENT PURPOSES.  
(2) CONTINGENCY EMBANKMENT SHALL BE PLACED AS REQUESTED BY THE RESIDENT ENGINEER TO PROVIDE STABILITY ALONG THE EDGE OF PAVEMENT WHERE THE EXISTING GROUND SLOPES AWAY AT A STEEP ANGLE.  
(3) VOLUME OF ASPHALT SHALL ALSO BE CONSIDERED A WASTE VOLUME AND IS IN ADDITION TO THE WASTE (+) OR BORROW (-) NOTED HEREIN. TOTAL VOLUME OF TOPSOIL MAYBE DEDUCTED FROM WASTE IF EXCAVATED MATERIAL IS SUITABLE FOR TOPSOIL.

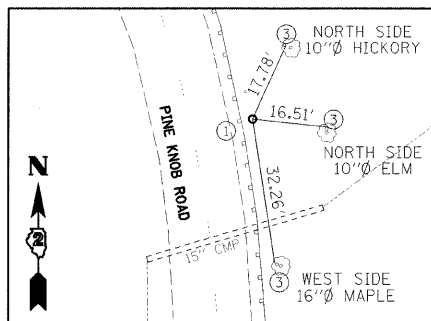
DESIGNED - LAW	REVISED -
DRAWN - DRR	REVISED -
CHECKED - PJM	REVISED -
DATE - 01/27/10	REVISED -

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

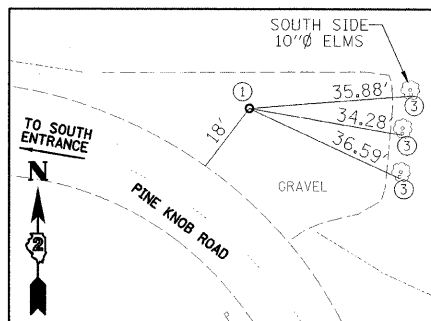
SCHEDULE OF QUANTITIES		
SCALE:	SHEET NO. 6 OF 35 SHEETS	STA. TO STA.

**IDOT/DNR STATEWIDE  
MISSISSIPPI PALISADES STATE PARK  
PINE KNOB ROAD**

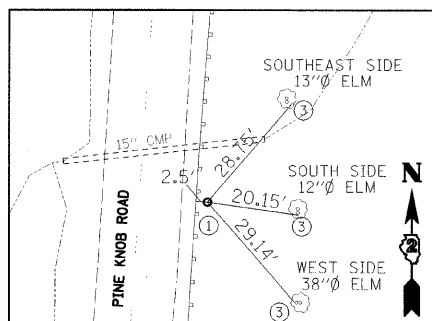
F.A.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PINE KNOB ROAD	CARROLL	35	6
<b>CONTRACT NO. 46093</b>				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



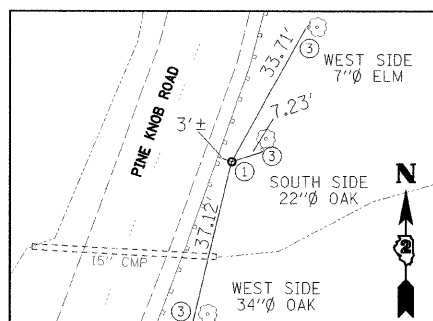
CONTROL PT #3819  
(IRON PIPE WITH CAP)  
N 1988688.519 / E 2301099.679



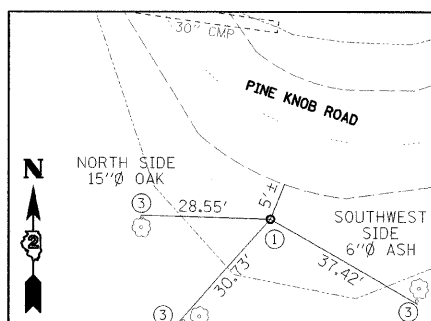
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N 1988979.893 / E 2300938.520



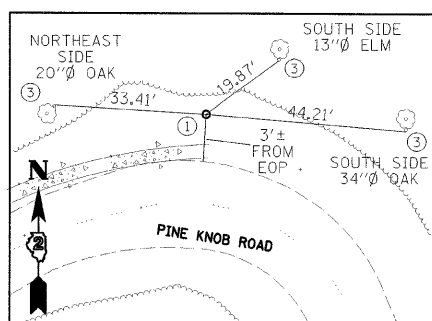
CONTROL PT #4005  
(IRON PIPE WITH CAP)  
N 1988332.863 / E 2301096.393



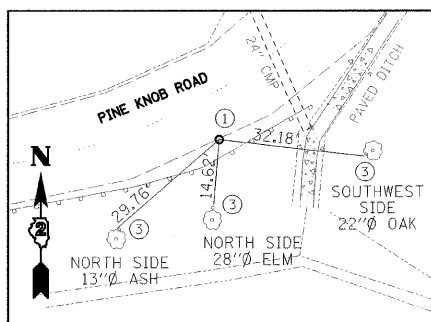
CONTROL PT #4153  
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N 1988124.741 / E 2301065.651



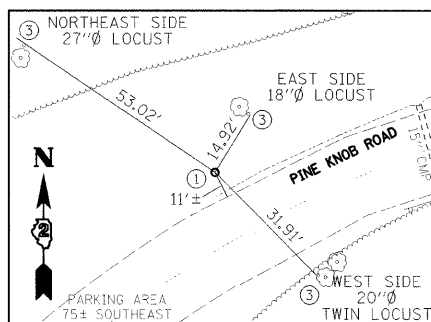
CONTROL PT #4257  
(IRON PIPE WITH CAP)  
N 1987791.500 / E 2300662.080



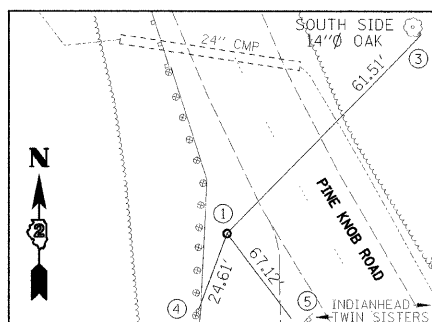
CONTROL PT #4394  
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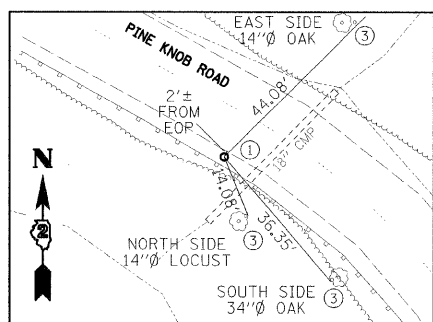
CONTROL PT #4395  
(IRON PIPE WITH CAP)  
N 1987635.979 / E 2300190.244



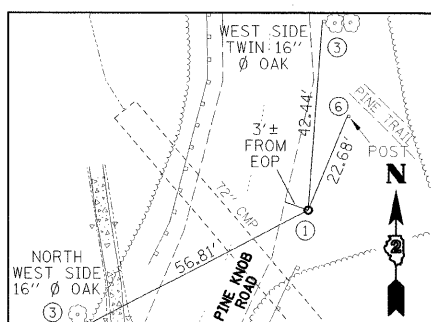
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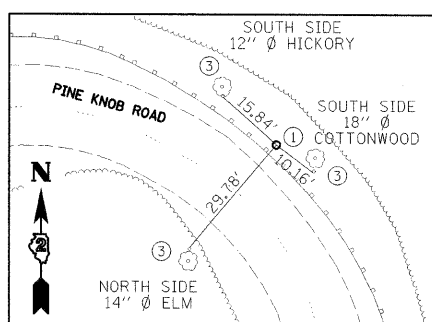
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N 1986791.075 / E 2299477.767



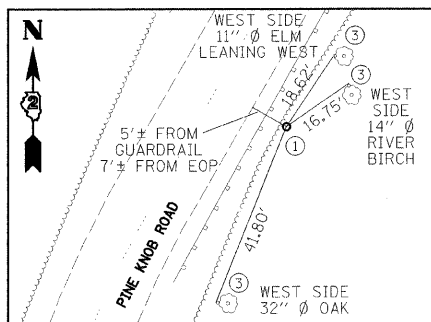
CONTROL PT #4883  
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N 1985695.453 / E 2300309.618



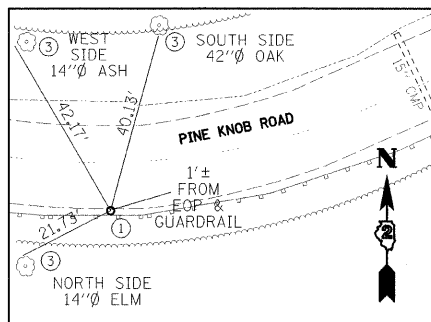
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N 1985433.623 / E 2300430.432



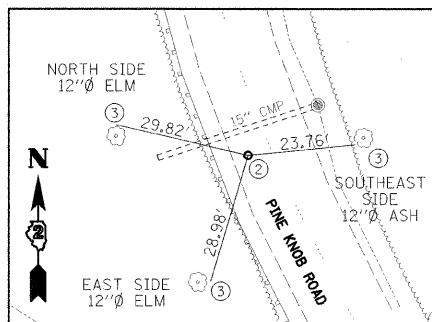
CONTROL PT #5312  
(IRON PIPE WITH CAP)  
N 1985145.400 / E 2300487.323



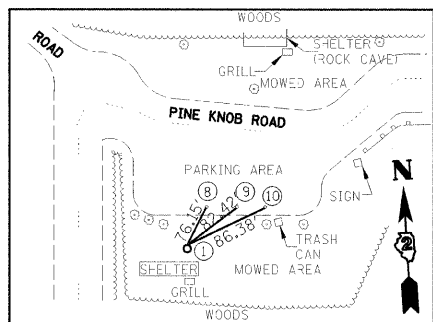
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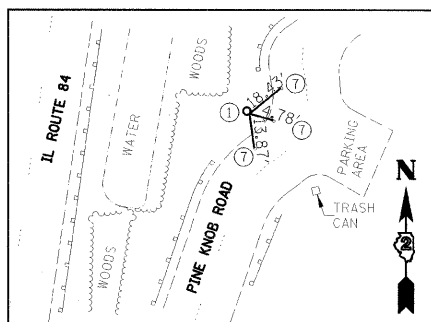
CONTROL PT #6005  
(IRON PIPE WITH CAP)  
N 1988915.750 / E 2300702.224



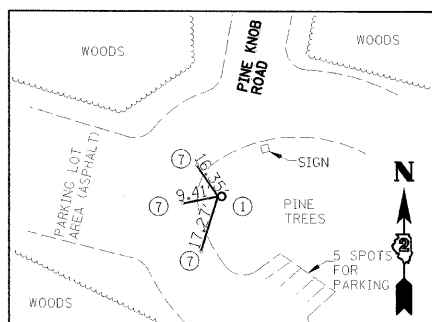
CONTROL PT #6402  
(MAG NAIL)  
N 1985974.056 / E 2300047.998



CONTROL PT #GPS 10004  
(IRON PIPE WITH CAP)  
N 1987407.138 / E 2299564.040



CONTROL PT #GPS 10005  
(IRON PIPE WITH CAP)  
N 1987253.275 / E 2299455.212



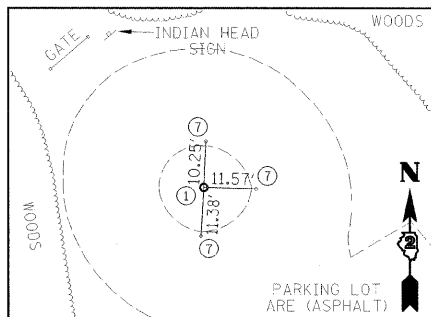
CONTROL PT #GPS 10006  
(IRON PIPE WITH CAP)  
N 1984429.390 / E 2300079.059

**LEGEND**

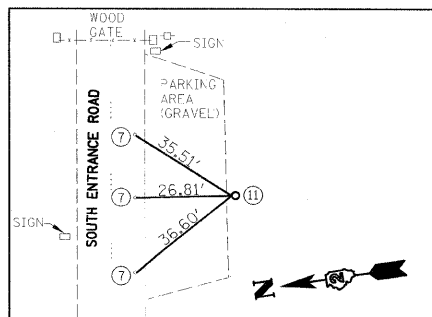
- ① IRON PIPE WITH CAP, FLUSH
- ② MAG NAIL 5' ± FROM EDGE OF PAVEMENT (EOP)
- ③ MAG NAIL ± 3' HIGH IN VARIOUS DIAMETER TREE
- ④ MAG NAIL ON EAST SIDE 13TH POST FROM THE NORTH
- ⑤ MAG NAIL IN NORTH SIDE OF INDIAN HEAD / TWIN SISTERS SIGN POST
- ⑥ MAG NAIL IN WEST FACE 6"x6" WOOD POST (PINE TRAIL)
- ⑦ MAG NAIL 1' ± FROM EDGE OF PAVEMENT (EOP)
- ⑧ MAG NAIL 1' ± FROM EDGE OF PAVEMENT (EOP) BETWEEN 8TH & 9TH PARKING BLOCK FROM WEST
- ⑨ MAG NAIL 1' ± FROM EDGE OF PAVEMENT (EOP) BETWEEN 9TH & 10TH PARKING BLOCK FROM WEST
- ⑩ MAG NAIL 1' ± FROM EDGE OF PAVEMENT (EOP) BETWEEN 10TH & 11TH PARKING BLOCK FROM WEST
- ⑪ IRON PIPE W/ CAP 5' ± FROM EDGE OF PAVEMENT (EOP), 1" ± DEEP

**LAYOUT COORDINATE SCHEDULE**

POINT #	STATION/ OFFSET	NORTHING	EASTING	DESCRIPTION
3819	374+51.62/ 13.66' RT	1988688.519	2301099.679	IRON PIPE W/ CAP
3920	377+72.57/ 25.25' RT	1988979.893	2300938.520	IRON PIPE W/ CAP
4005	370+99.14/ 15.07' RT	1988332.863	2301096.393	IRON PIPE W/ CAP
4153	368+92.09/ 15.55' RT	1988124.741	2301065.651	IRON PIPE W/ CAP
4257	363+11.48/ 20.84' RT	1987791.500	2300662.080	IRON PIPE W/ CAP
4394	360+96.02/ 19.80' LT	1988004.304	2300562.014	IRON PIPE W/ CAP
4395	355+77.23/ 9.72' RT	1987635.979	2300190.244	IRON PIPE W/ CAP
4465	351+67.38/ 15.11' LT	1987572.896	2299780.949	IRON PIPE W/ CAP
4757	340+28.78/ 19.13' LT	1986791.075	2299477.767	IRON PIPE W/ CAP
4883	326+25.32/ 10.64' LT	1985695.453	2300309.618	IRON PIPE W/ CAP
5045	323+25.29/ 14.09' RT	1985433.623	2300430.432	IRON PIPE W/ CAP
5312	317+12.41/ 13.71' RT	1985145.400	2300487.323	IRON PIPE W/ CAP
5313	315+57.16/ 17.60' RT	1984986.243	2300473.988	IRON PIPE W/ CAP
6005	380+07.54/ 10.52' LT	1988915.750	2300702.224	IRON PIPE W/ CAP
6402	330+09.98/ 5.14' LT	1985974.056	2300047.998	MAG NAIL
10004	346+42.72/ 74.97' RT	1987407.138	2299564.040	IRON PIPE W/ CAP
10005	344+63.61/ 13.53' LT	1987253.275	2299455.212	IRON PIPE W/ CAP
10006	308+05.91/ 13.28' RT	1984429.390	2300079.059	IRON PIPE W/ CAP
10007	308+21.06/ 141.14' LT	1984549.049	2299980.262	IRON PIPE W/ CAP
10012	18+93.14/ 39.53' RT	1989040.345	2299921.883	IRON PIPE W/ CAP



CONTROL PT #GPS 10007  
(IRON PIPE WITH CAP)  
N 1984549.049 / E 2299980.262



CONTROL PT #GPS 10012  
(IRON PIPE WITH CAP)  
N 1989040.345 / E 2299921.883

DESIGNED - LAW	REVISED -
DRAWN - DRR	REVISED -
CHECKED - PJM	REVISED -
DATE - 01/27/10	REVISED -

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

**CONTROL TIES**

SCALE: SHEET NO. 7 OF 35 SHEETS STA. TO STA.

**IDOT/IDNR STATEWIDE  
MISSISSIPPI PALISADES STATE PARK  
PINE KNOB ROAD**

F.A.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PINE KNOB ROAD	CARROLL	35	7
CONTRACT NO. 46093				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

# GENERAL NOTES

- IF SO DIRECTED BY THE ENGINEER, DITCHES ADJACENT TO EMBANKMENTS SHALL BE CONSTRUCTED PRIOR TO STARTING THE CONSTRUCTION OF THE EMBANKMENT FILL.
- THE ALGEBRAIC DIFFERENCE BETWEEN THE PAVEMENT AND SHOULDER SLOPES SHALL NOT EXCEED 8%. THE SHOULDER ON THE OUTSIDE OF SUPER ELEVATED CURVES SHALL BE FLATTENED ACCORDINGLY.
- TREES SHALL BE PRESERVED THROUGHOUT THIS SECTION AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER. GENERALLY, TREES OUTSIDE THE CLEAR ZONE, AND WHICH DO NOT INTERFERE WITH CONSTRUCTION, SHALL NOT BE DISTURBED.
- EARTHWORK COMPACTION SHALL BE TO THE SATISFACTION OF THE ENGINEER.
- ALL PIPE CULVERTS DESIGNATED ON THE PLANS SHALL BE "REINFORCED CONCRETE PIPE CULVERT OR STORM SEWER PIPE" CONFORMING TO THE REQUIREMENTS OF ARTICLE 1040.03.
- AT ALL LOCATIONS WHERE THE PROPOSED HOT-MIX ASPHALT OR CONCRETE PAVEMENT JOINS AN EXISTING HOT-MIX ASPHALT OR CONCRETE PAVEMENT, A FULL DEPTH SAW JOINT SHALL BE CONSTRUCTED. THE COST OF THIS JOINT WILL BE INCLUDED IN THE COST OF THE TYPE OF PAVEMENT TO BE CONSTRUCTED.
- THIS PROJECT INCLUDES SEVERAL AREAS OF ROADWAY WIDENING. NO "WIDENING" PAY ITEMS ARE INCLUDED HEREIN. ALL WORK SHALL BE PAID FOR AS NOTED WHETHER THE WIDTH OF THE WORK AREAS EXCEEDS SIX FEET OR WHETHER IT IS LESS THAN SIX FEET.
- THE REMOVAL OF BITUMINOUS SURFACING NOT ON A RIGID TYPE BASE REMOVED IN CONJUNCTION WITH THE BASE SHALL BE REMOVED AS EARTH EXCAVATION. THE REMOVAL OF BITUMINOUS SURFACING ON A RIGID TYPE BASE REMOVED IN CONJUNCTION WITH THE BASE SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR PAVEMENT REMOVAL OF THE TYPE SPECIFIED.
- THE FINAL TOP 100MM (FOUR INCHES) OF SOIL IN ANY RIGHT-OF-WAY AREA DISTURBED BY THE CONTRACTOR MUST BE CAPABLE OF SUPPORTING VEGETATION. THE SOIL MUST BE FROM THE 'A' HORIZON (ZERO TO 2' DEEP) OF SOIL PROFILES OF LOCAL SOILS.
- THE CONTRACTOR SHALL SEED ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS.
- (SEEDING LESS THAN 0.5 ACRE OR 0.2 HECTARES) MULCH METHOD II SHALL BE APPLIED OVER ALL SEEDED AREAS.
- PREVIOUSLY PUG MILLED STOCKPILES OF "TYPE A" OLDER THAN 1 MONTH WILL NOT BE APPROVED FOR USE UNTIL A MOISTURE CHECK IS RUN TO VERIFY MOISTURE CONTENT. MATERIAL SHIPPED TO PROJECTS WITHOUT BEING TESTED WILL NOT BE ACCEPTED.
- EXCEPT FOR THE TOP 75mm (3"), ALL AGGREGATE BASES AND SUBBASES 300mm (12") IN THICKNESS SHALL BE CONSTRUCTED OF AGGREGATE GRADATION CA-2. IF THE SPECIFIED THICKNESS EXCEEDS 300mm (12"), THE BASES OR SUBBASES SHALL BE CONSTRUCTED OF TOPSIZE 150mm (6") BREAKER-RUN CRUSHED STONE WITH 70% TO 90% BY WEIGHT PASSING THE 4" SIEVE AND 15% TO 40% BY WEIGHT PASSING THE 50mm (2") SIZE SIEVE, EXCEPT FOR THE TOP 75mm (3"). THE BREAKER-RUN CRUSHED STONE SHALL BE REASONABLY UNIFORMLY GRADED FROM COARSE TO FINE AND BE TAKEN FROM A QUARRY LEDGE CAPABLE OF PRODUCING CLASS "D" QUALITY AGGREGATE. THE TOP 75mm (3") SHALL BE GRADATION CA-6 OR CA-10 REGARDLESS OF THICKNESS. THE WATER NECESSARY TO ACHIEVE COMPACTION IN ALL BUT THE TOP 75mm (3") LAYER MAY BE ADDED AFTER THE SUBBASE OR BASE COURSE IS PLACED ON THE GRADE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED FOR NON-EMERGENCY WORK. THE JULIE NUMBER IS 800-892-0123. THE FOLLOWING LISTED UTILITIES LOCATED WITHIN THE PROJECT LIMITS OR IMMEDIATELY ADJACENT TO THE PROJECT CONSTRUCTION LIMITS ARE MEMBERS OF JULIE:
 

JO-CARROLL ENERGY (ELECTRIC)	MISSISSIPPI PALISADES PARK (SANITARY SEWER)
MISSISSIPPI PALISADES PARK (WATER MAIN)	CENTURY LINK (TELEPHONE)

FOLLOWING ARE THE KNOWN UTILITIES LOCATED WITHIN THE PROJECT LIMITS OR IMMEDIATELY ADJACENT TO THE PROJECT CONSTRUCTION LIMITS WHICH ARE NOT MEMBERS OF JULIE AND SHOULD BE NOTIFIED INDIVIDUALLY BY THE CONTRACTOR:
- THE CONTRACTOR IS ADVISED THAT LITTLE HARD SURVEY DATA WAS OBTAINED FOR THIS PROJECT. MOST INFORMATION WAS EXTRACTED FROM AERIAL SURVEY DATA. TO INSURE THAT THE ROADWAY IS RECONSTRUCTED IN ITS EXISTING LOCATION AND NEAR THE SAME ELEVATION, THE CONTRACTOR SHALL OBTAIN CENTERLINE ELEVATIONS AT A MINIMUM OF ONE HUNDRED FOOT INTERVALS AND SHALL SET OFFSET HUBS AT THE SAME ONE HUNDRED FOOT INTERVALS TO REESTABLISH THE ROADWAY ALIGNMENT AND PROFILE. THIS WORK SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR CONSTRUCTION LAYOUT. IF, IN THE OPINION OF THE RESIDENT ENGINEER, ADDITIONAL OFFSET HUBS AND ELEVATIONS ARE NECESSARY TO REESTABLISH THE ROADWAY, THE CONTRACTOR SHALL OBTAIN/SET THESE HUBS AT NO ADDITIONAL COST.

## LEGEND

EXISTING	
	SIGN
	MANHOLE
	CONTOUR
	TIMBER LINE
	PIPE CULVERT (VARIOUS SIZES)
	IRON ROD
	BENCHMARK
	SIGN
	STREET LIGHT
	GUY WIRE
	POWER POLE
	YARD HYDRANT
	UNDERGROUND ELECTRIC
	OVERHEAD UTILITIES
	STORM SEWER
	EVERGREEN TREE
	DECIDUOUS TREE
PROPOSED	
	TRENCH BACKFILL
	PERIMETER EROSION BARRIER
	INLET AND PIPE PROTECTION
	TEMPORARY DITCH CHECK
	PRECAST REINFORCED CONCRETE FLARED END SECTION

# STORM WATER POLLUTION PREVENTION PLAN EROSION CONTROL PLAN

THE FOLLOWING PLAN WAS ESTABLISHED AND INCLUDED IN THESE PLANS TO DIRECT THE CONTRACTOR IN THE PLACEMENT OF TEMPORARY EROSION CONTROL SYSTEMS AND TO PROVIDE A STORM WATER POLLUTION PREVENTION PLAN FOR COMPLIANCE UNDER NPDES.

THE PURPOSE OF THIS PLAN IS TO MINIMIZE SILTATION WITHIN THE CONSTRUCTION ZONE AND TO ELIMINATE SEDIMENTS FROM ENTERING AND LEAVING THE CONSTRUCTION ZONE BY UTILIZING PROPER TEMPORARY EROSION CONTROL SYSTEMS AND PROVIDING GROUND COVER WITHIN A REASONABLE AMOUNT OF TIME.

CERTAIN ITEMS, AS SHOWN IN THIS PLAN AND REFERENCED BY THE LEGEND, SHALL BE PLACED BY THE CONTRACTOR AT THE BEGINNING OF CONSTRUCTION. OTHER ITEMS SHALL BE PLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER ON A CASE BY CASE SITUATION RESULTING FROM THE CONTRACTOR'S SEQUENCE OF ACTIVITIES, TIME OF YEAR, AND EXPECTED WEATHER CONDITIONS.

THE CONTRACTOR SHALL PLACE PERMANENT EROSION CONTROL SYSTEMS AND SEEDING WITHIN A REASONABLE AMOUNT OF TIME; THEREFORE, REDUCING THE AMOUNT OF AREA BEING OPEN TO THE POSSIBILITY OF EROSION AND REDUCING THE AMOUNT OF TEMPORARY SEEDING. THE RESIDENT ENGINEER WILL DETERMINE IF TEMPORARY EROSION CONTROL SYSTEMS SHOWN IN THE PLAN CAN BE DELETED, THE SIZE OF THE PROPOSED DITCH CHECKS, THE PROPER METHOD OF INSTALLATION, AND IF ANY ADDITIONAL TEMPORARY EROSION CONTROL SYSTEMS SHALL BE ADDED WHICH ARE NOT INCLUDED IN THE PLANS. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE ENGINEER AND AS SHOWN IN STANDARD 280001 OF THE PLANS.

### SITE DESCRIPTION

DESCRIPTION OF CONSTRUCTION ACTIVITY:

THIS PROJECT CONSISTS OF REMOVAL AND RECONSTRUCTION OF THE EXISTING PINE KNOB ROAD AND PARKING AREAS

### DESCRIPTION OF INTENDED SEQUENCE OF ACTIVITIES:

THE SEQUENCE OF EVENTS ARE AS FOLLOWS: CLEARING, EXCAVATION, EMBANKMENT, GRADING AND PAVING. THIS PROJECT WILL BE CONSTRUCTED IN SEGMENTS AS SHOWN IN THE "STAGING PLANS".

TOTAL CONSTRUCTION SITE (CONSTRUCTION LIMIT TO CONSTRUCTION LIMIT) 10 ACRES

PROPOSED R.O.W (TOTAL PARCEL AREA) N/A ACRES

DISTURBED BY EXCAVATION (E.O.P TO CONSTRUCTION LIMIT) 5.4 ACRES

SUPPORTING REPORTS AND PLANS

THE FOLLOWING ASSISTED IN DEVELOPING THE EROSION CONTROL PLAN AS REFERENCED DOCUMENTS:

USGS DRAINAGE MAPS, PROJECT PLAN DOCUMENTS

DRAINAGE TRIBUTARIES RECEIVING WATER FROM CONSTRUCTION SITE

MISSISSIPPI RIVER

### EROSION CONTROLS AND SEDIMENT CONTROL PROCEDURES

STABILIZATION PRACTICES AT THE BEGINNING OF CONSTRUCTION:

PERIMETER EROSION CONTROL SHALL BE PLACED PRIOR TO BEGINNING EARTHWORK.

STABILIZATION PRACTICES DURING CONSTRUCTION:

AS EARTH EXCAVATION AND EMBANKMENT ARE BEING COMPLETED THE CONTRACTOR SHALL PLACE DITCH CHECKS, INLET AND PIPE PROTECTION, EROSION CONTROL BLANKET, AND SEEDING AS STAGES OF THE PROJECT ARE COMPLETED. PERIMETER EROSION BARRIER WILL BE INSTALLED AT ADDITIONAL LOCATIONS AS THE PROJECT PROGRESSES. SEEDING SHALL BE COMPLETED AS SPECIFIED IN THE EROSION CONTROL/ SEEDING MOBILIZATION AND TEMPORARY SEEDING SPECIAL PROVISION.

### MAINTENANCE AFTER FINAL GRADING

TEMPORARY EROSION CONTROL SYSTEMS SHALL BE LEFT IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY AND ALL PROPOSED TURF AREAS SEEDED AND ESTABLISHED WITH THE PROPER STAND. ONCE PERMANENT EROSION CONTROL SYSTEMS AS PROPOSED IN THE PLANS ARE FUNCTIONAL AND ESTABLISHED, TEMPORARY ITEMS SHALL BE REMOVED, CLEANED UP AND DISTURBED TURF RESEDED.

## ABBREVIATIONS

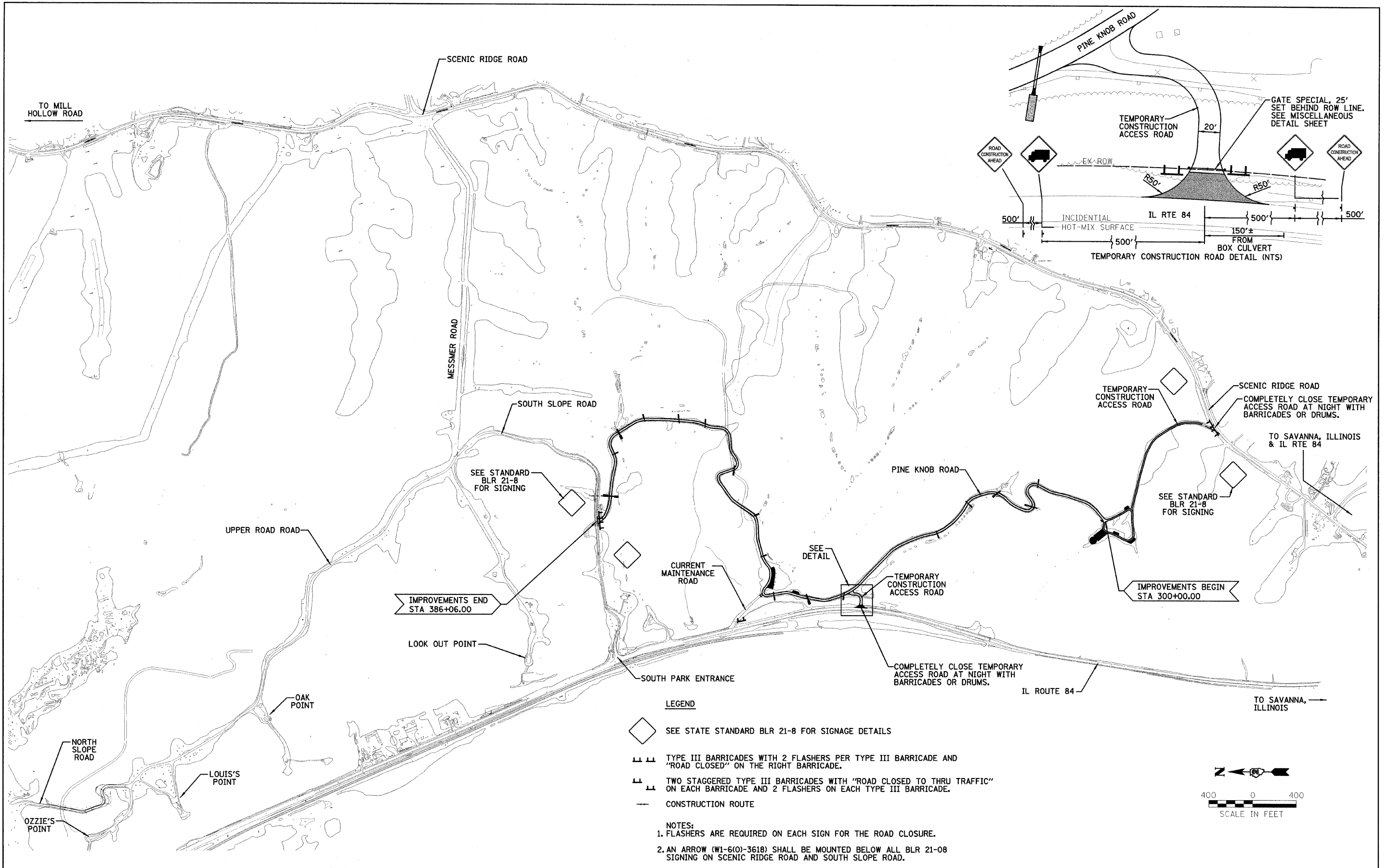
CY	CUBIC YARD
ERS	EQUIVALENT ROUND SIZE
HEP	HORIZONTAL ELLIPTICAL PIPE
PRC	PRECAST REINFORCED CONCRETE
RCCP	REINFORCED CONCRETE CULVERT PIPE

## APPLICATION RATES

GRANULAR MATERIALS	2.05 TONS/CY
BITUMINOUS MATERIAL (PRIME COAT)	0.4 GAL/SQ YD OR 0.0016 TON/SY ON AGGREGATE (MC-30)
BITUMINOUS MATERIAL (PRIME COAT)	0.1 GAL/SQ YD OR 0.0004 TON/SY ON HARD SURFACE (RC-70)
HOT-MIX ASPHALT	112*/IN/SQ YD
NITROGEN FERTILIZER NUTRIENT	90 LB/ACRE
PHOSPHORUS FERTILIZER NUTRIENT	90 LB/ACRE
POTASSIUM FERTILIZER NUTRIENT	90 LB/ACRE
MULCH, METHOD 2	2 TONS/ACRE

DESIGNED - LAW	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS</b>	<b>GENERAL NOTES, LEGEND AND SWPPP PLAN NOTES</b>	<b>IDOT/IDNR STATEWIDE MISSISSIPPI PALISADES STATE PARK PINE KNOB ROAD</b>	F.A.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DRAWN - DRR	REVISED -					PINE KNOB ROAD	CARROLL	35	8
CHECKED - PJM	REVISED -				<b>CONTRACT NO. 46093</b>				
DATE - 01/27/10	REVISED -				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT REVISED 02/09/10 DRR				





DESIGNED - LAW	REVISED -
DRAWN - DRR	REVISED -
CHECKED - PJM	REVISED -
DATE 01/27/10	REVISED -

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

**LOCATION MAP AND TRAFFIC CONTROL PLAN**

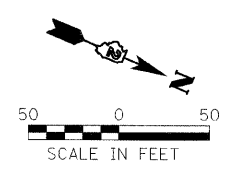
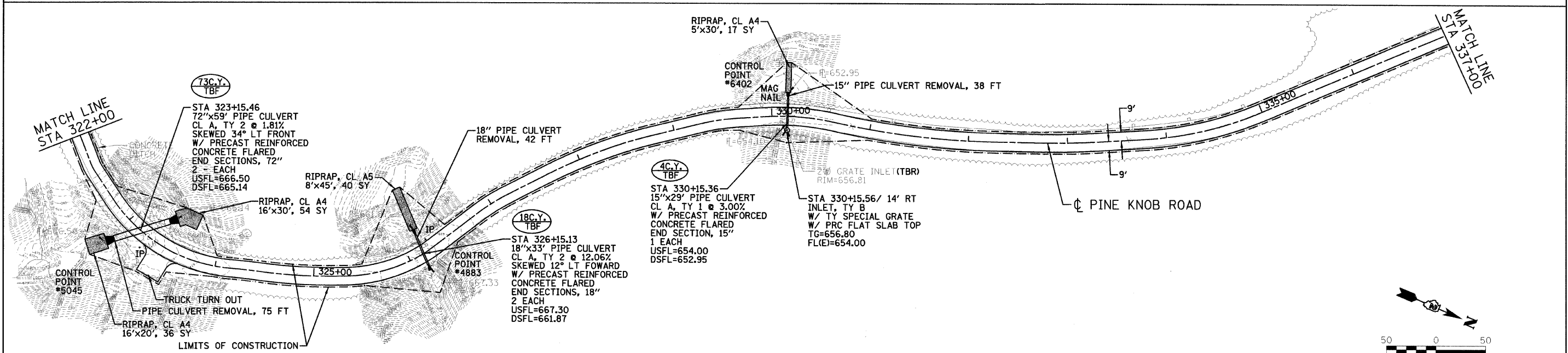
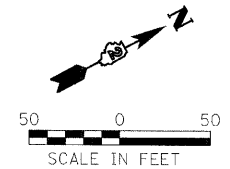
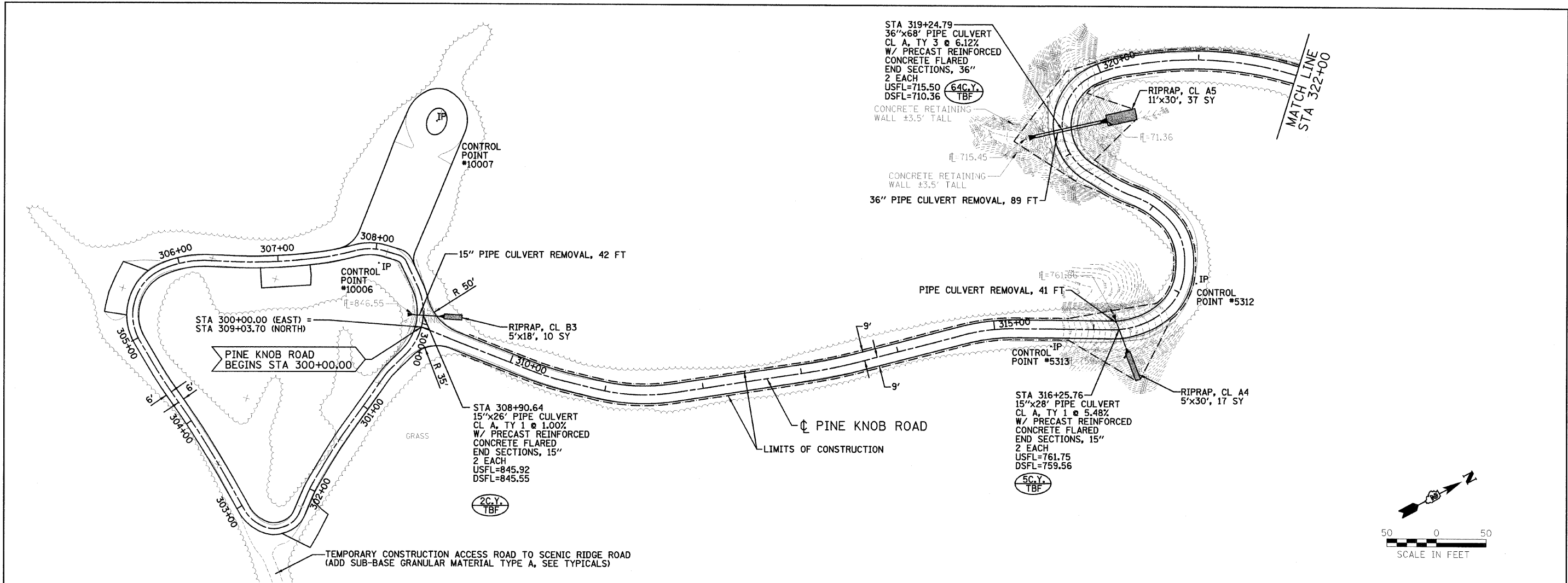
**IDOT/DNR STATEWIDE  
MISSISSIPPI PALISADES STATE PARK  
PINE KNOB ROAD**

F.A.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PINE KNOB ROAD	CARROLL	35	9
CONTRACT NO. 46093				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
REVISED 02/08/10	DRR			

FARNSWORTH GROUP, INC.

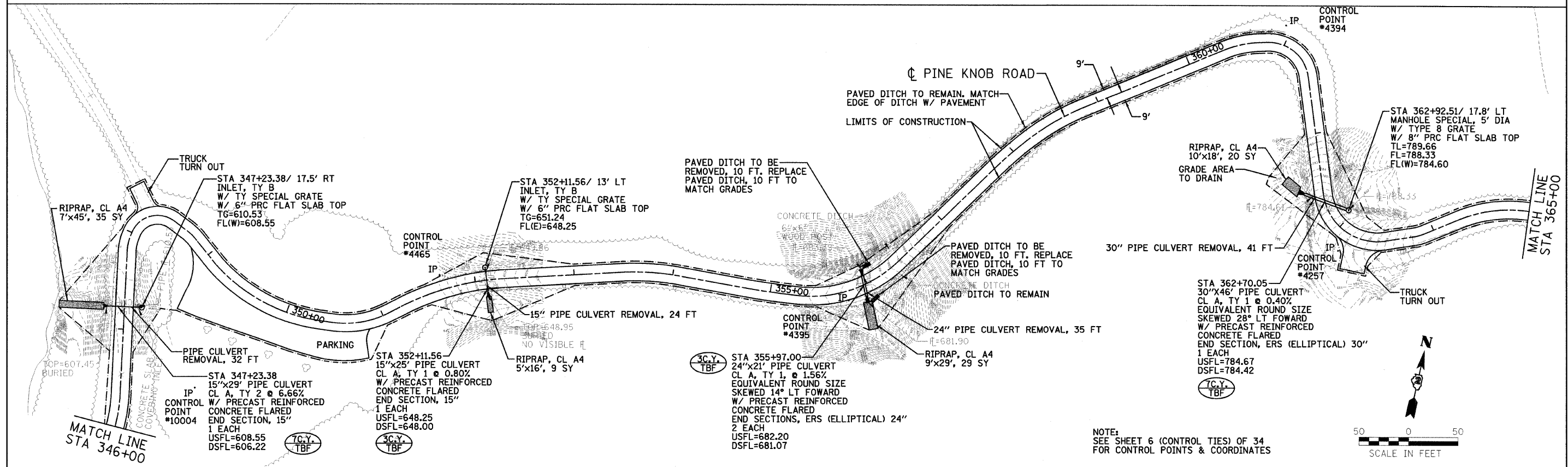
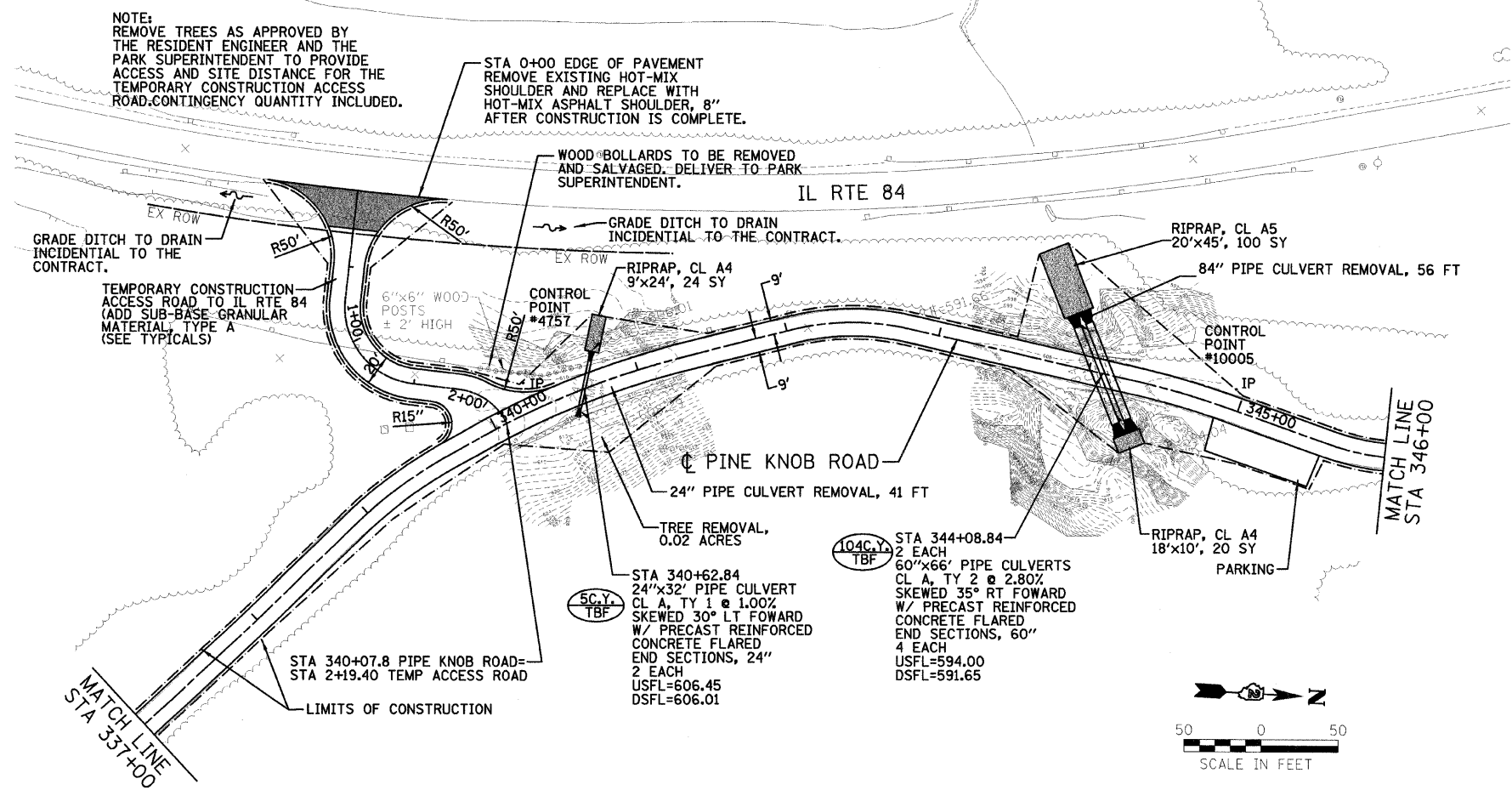
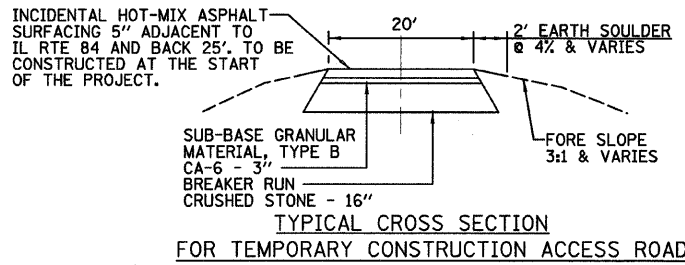
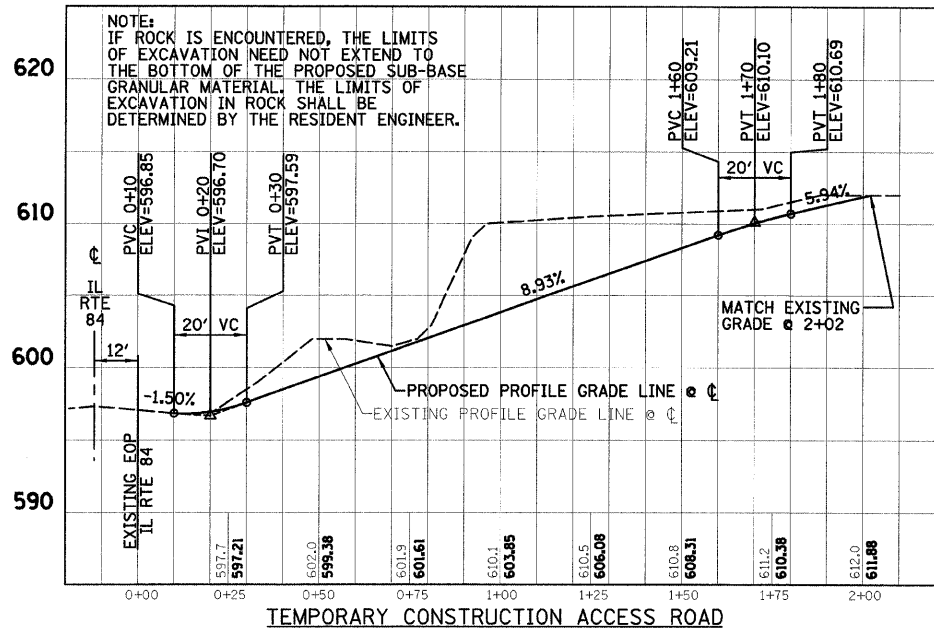
CONSULTING ENGINEERS - 2709 MCGRAW DRIVE BLOOMINGTON, ILLINOIS 61704 (309) 663-8435 / (309) 663-1571 FAX

24-8277

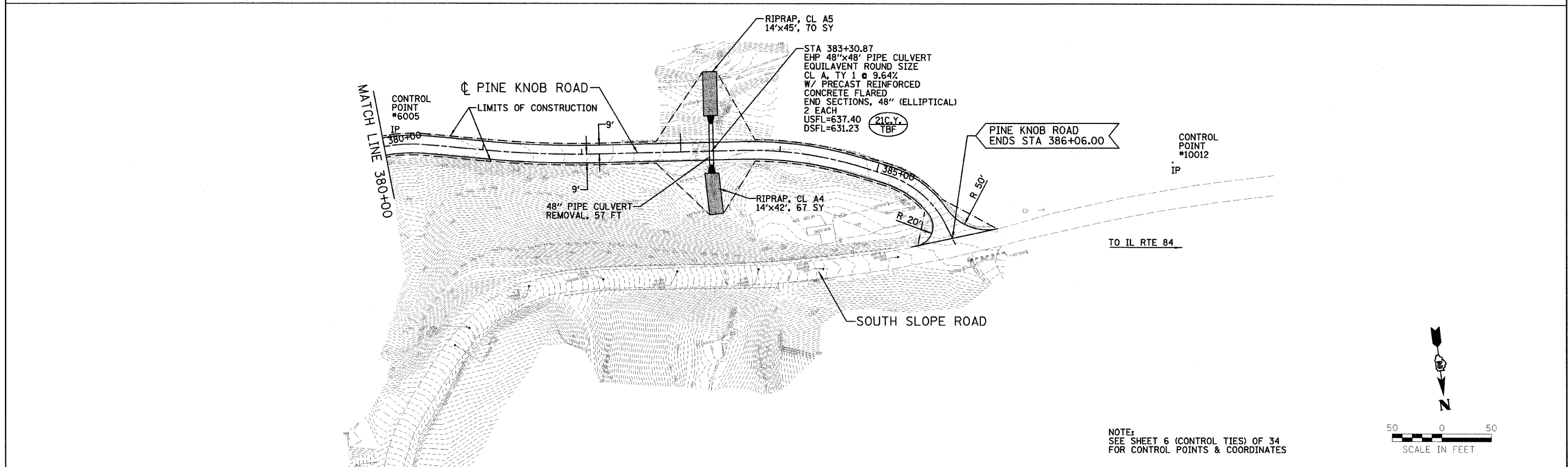
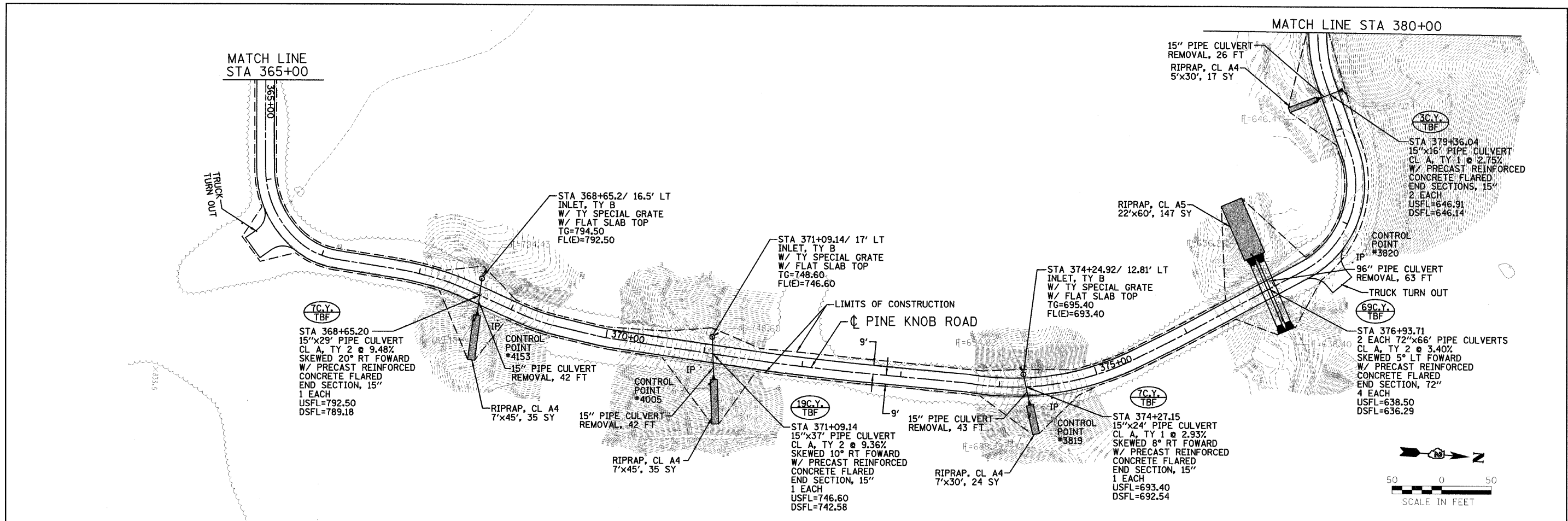


NOTE:  
SEE SHEET 6 (CONTROL TIES) OF 34  
FOR CONTROL POINTS & COORDINATES

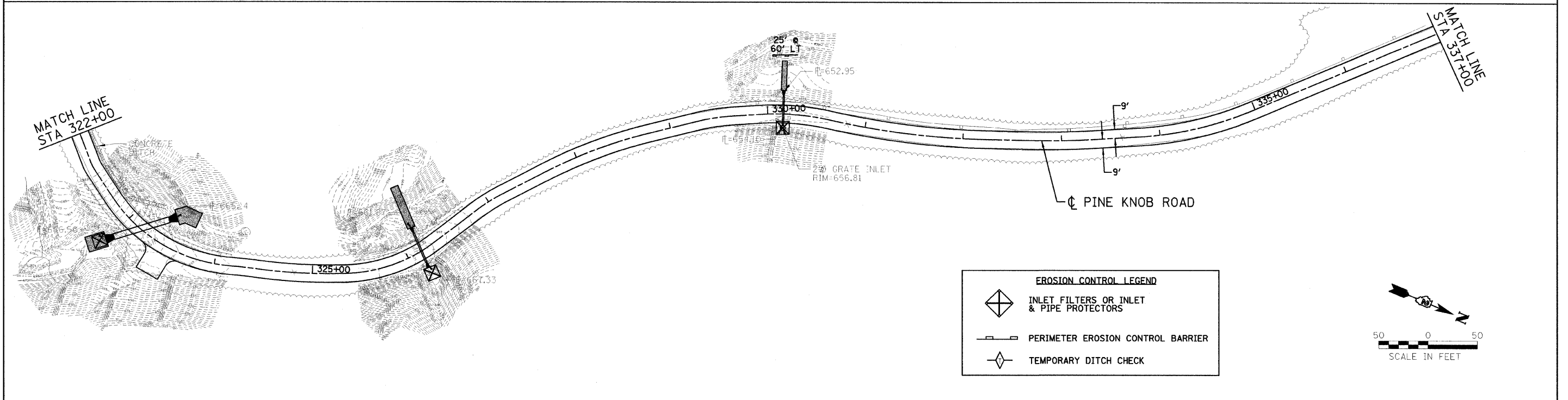
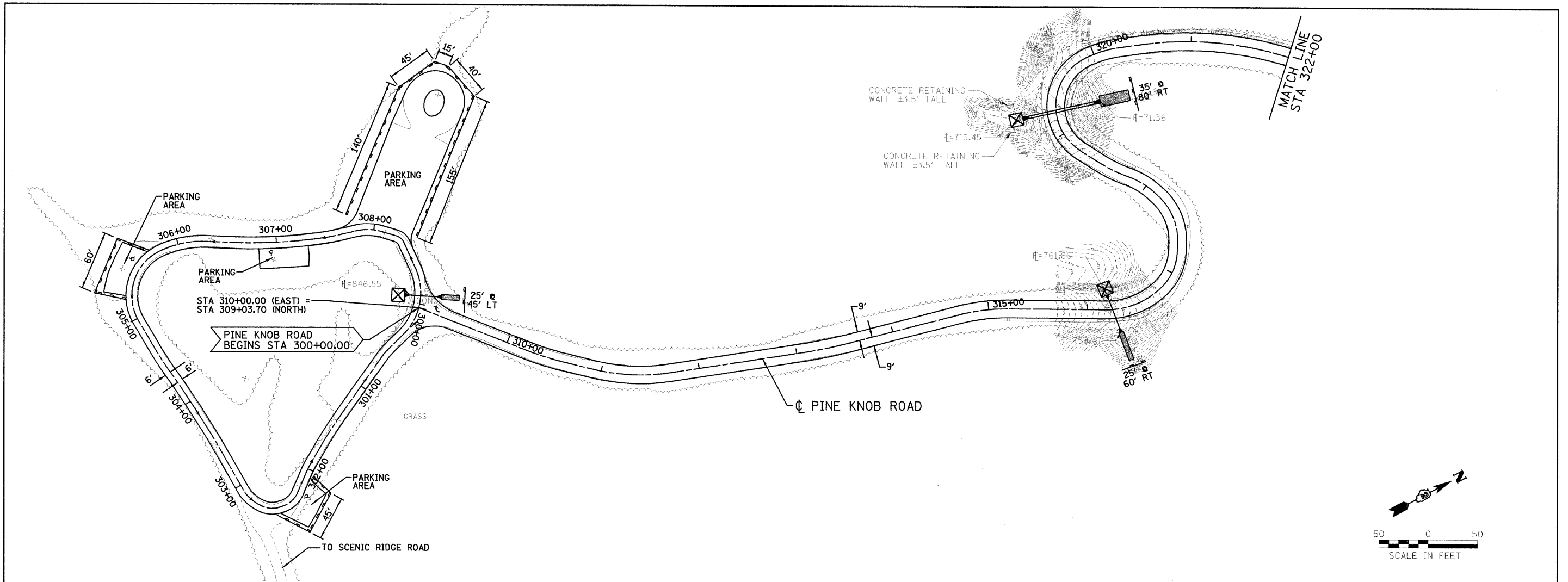
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	PLOT SCALE = #SCALE#	DRAWN - DRR	REVISED -			SCALE: 1"=50'	SHEET NO. 10 OF 35 SHEETS	PINE KNOB ROAD	CARROLL	35	10
	PLOT DATE = #DATE#	CHECKED - PJM	REVISED -			STA. 300+00.00 TO STA. 337+00.00	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
		DATE - 01/27/10	REVISED -								



FILE NAME =	USER NAME = #USER#	DESIGNED - LAW	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN SHEET</b>		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILEL#		DRAWN - DRR	REVISED -		SCALE: 1"=50'	SHEET NO. 11 OF 35 SHEETS	STA. 337+00.00 TO STA. 367+00.00	PINE KNOB ROAD	CARROLL	35	11
		CHECKED - PJM	REVISED -		CONTRACT NO. 46093						
		DATE - 01/27/10	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						
					REVISED 02/08/10 DRR						



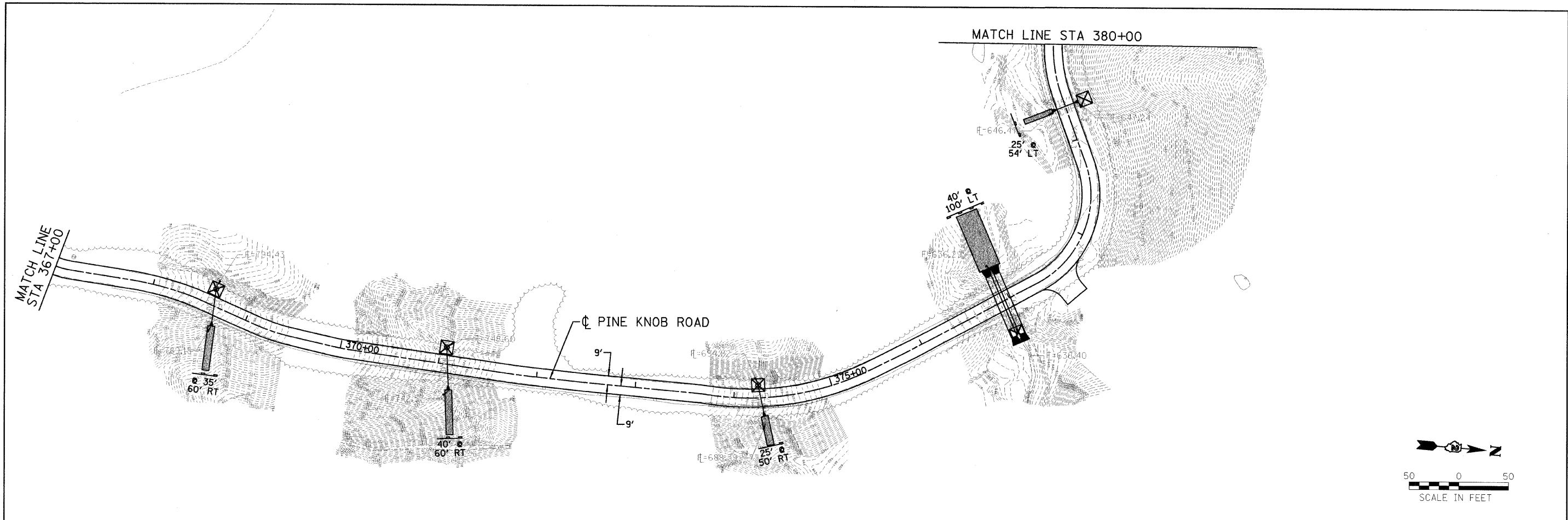
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		CHECKED - PJM	REVISED -			<b>CONTRACT NO. 46093</b>						
		DATE - 01/27/10	REVISED -			REVISOR: 02/08/10 DRR						



EROSION CONTROL LEGEND	
	INLET FILTERS OR INLET & PIPE PROTECTORS
	PERIMETER EROSION CONTROL BARRIER
	TEMPORARY DITCH CHECK

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		DATE - 01/27/10	REVISED -			FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		CONTRACT NO. 46093	

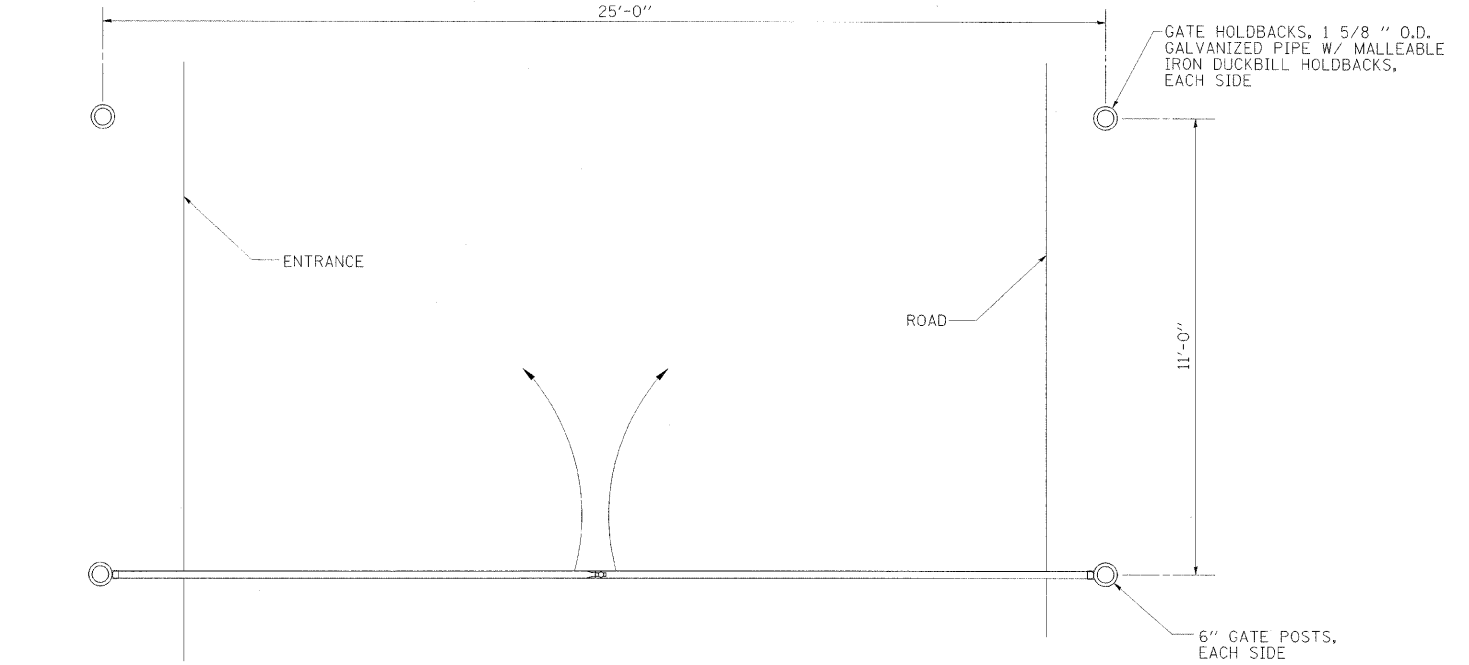
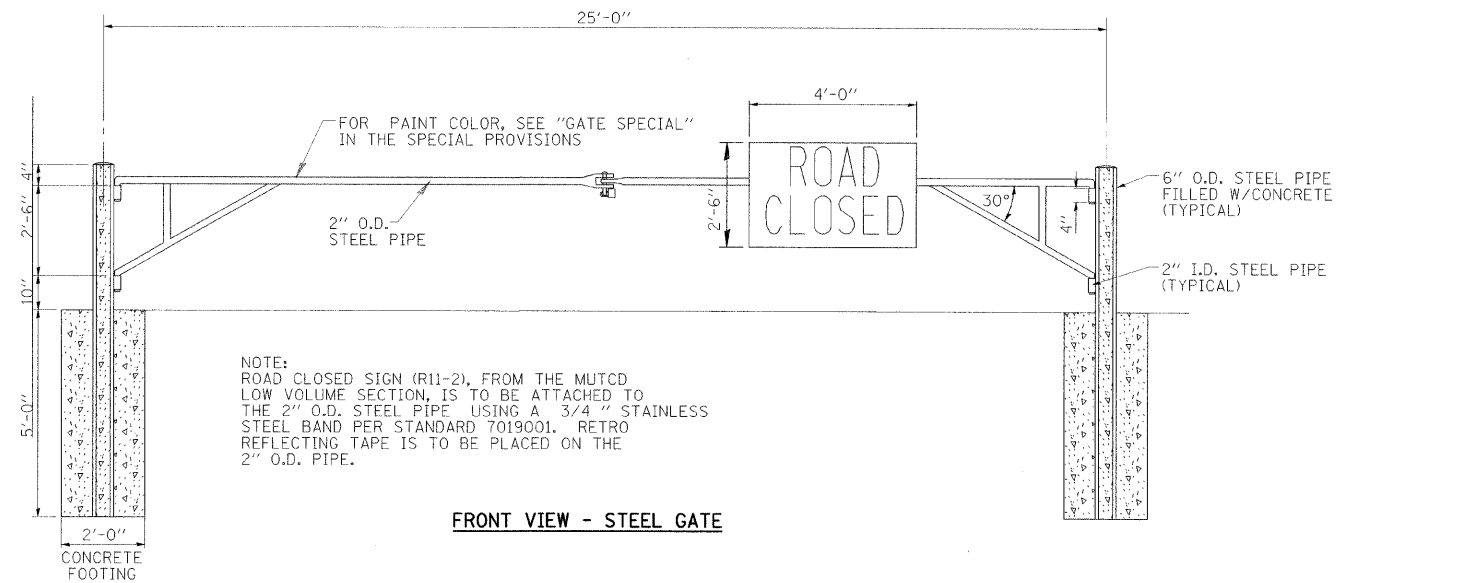
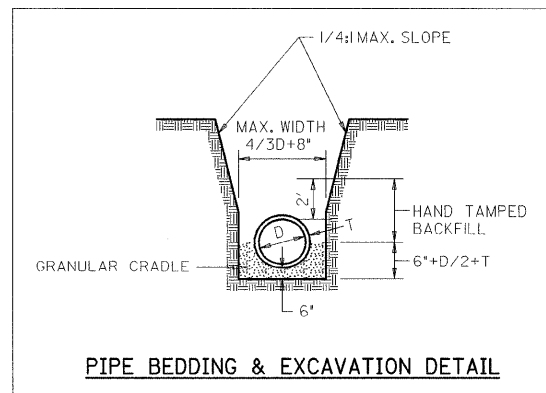
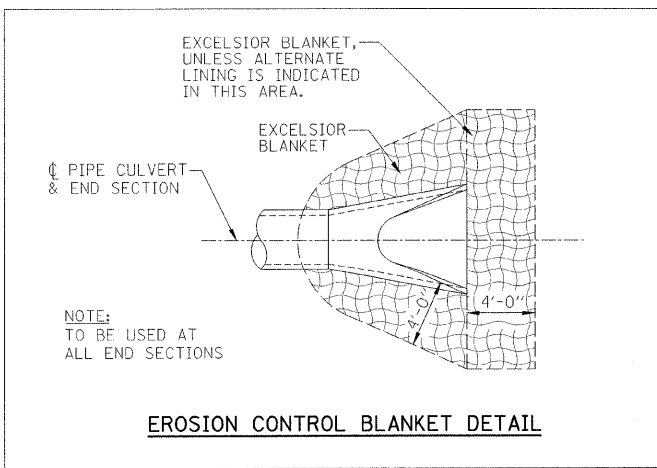
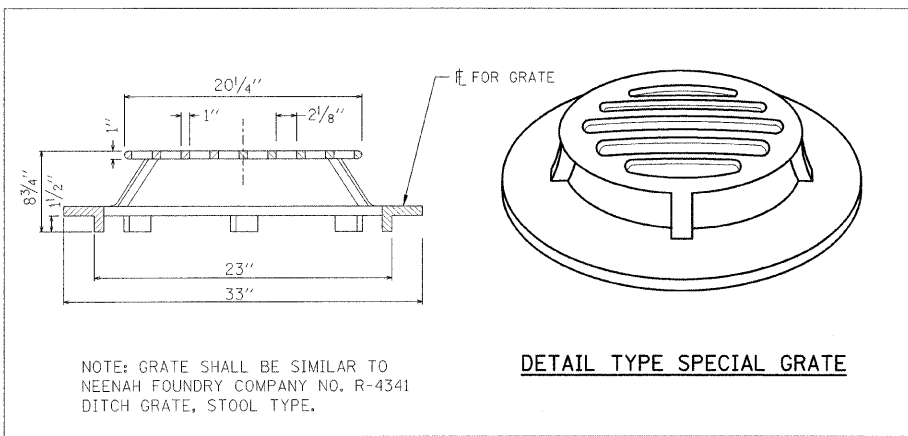
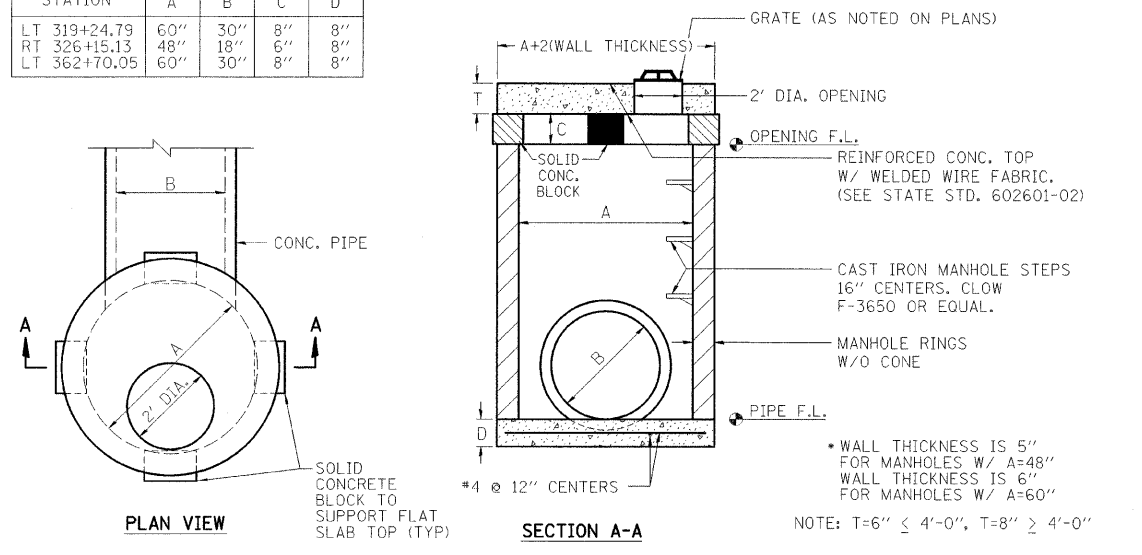




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	PLOT SCALE = #SCALE#	DRAWN - DRR	REVISED -		SCALE: 1"=50'	SHEET NO. 15 OF 35 SHEETS	STA. 367+00.00 TO STA. 386+06.00	PINE KNOB ROAD	CARROLL	35	15
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		DATE - 01/27/10	REVISED -					ILLINOIS FED. AID PROJECT			

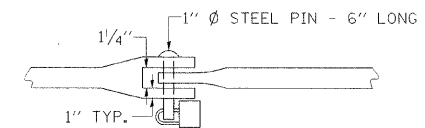
STATION	A	B	C	D
LT 319+24.79	60"	30"	8"	8"
RT 326+15.13	48"	18"	6"	8"
LT 362+70.05	60"	30"	8"	8"

**MANHOLE, SPECIAL DETAILS**



**TOP VIEW - STEEL GATE**

**METAL GATE**  
NO SCALE



**CATCH DETAIL**  
NO SCALE

NOTE: LOCATION OF GATE SPECIAL ON THE ACCESS ROAD FROM IL RTE 84, WILL BE DETERMINED BY THE PARK SUPERINTENDENT

DESIGNED - LAW	REVISED -
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CHECKED - PJM	REVISED -
DATE - 01/27/10	REVISED -

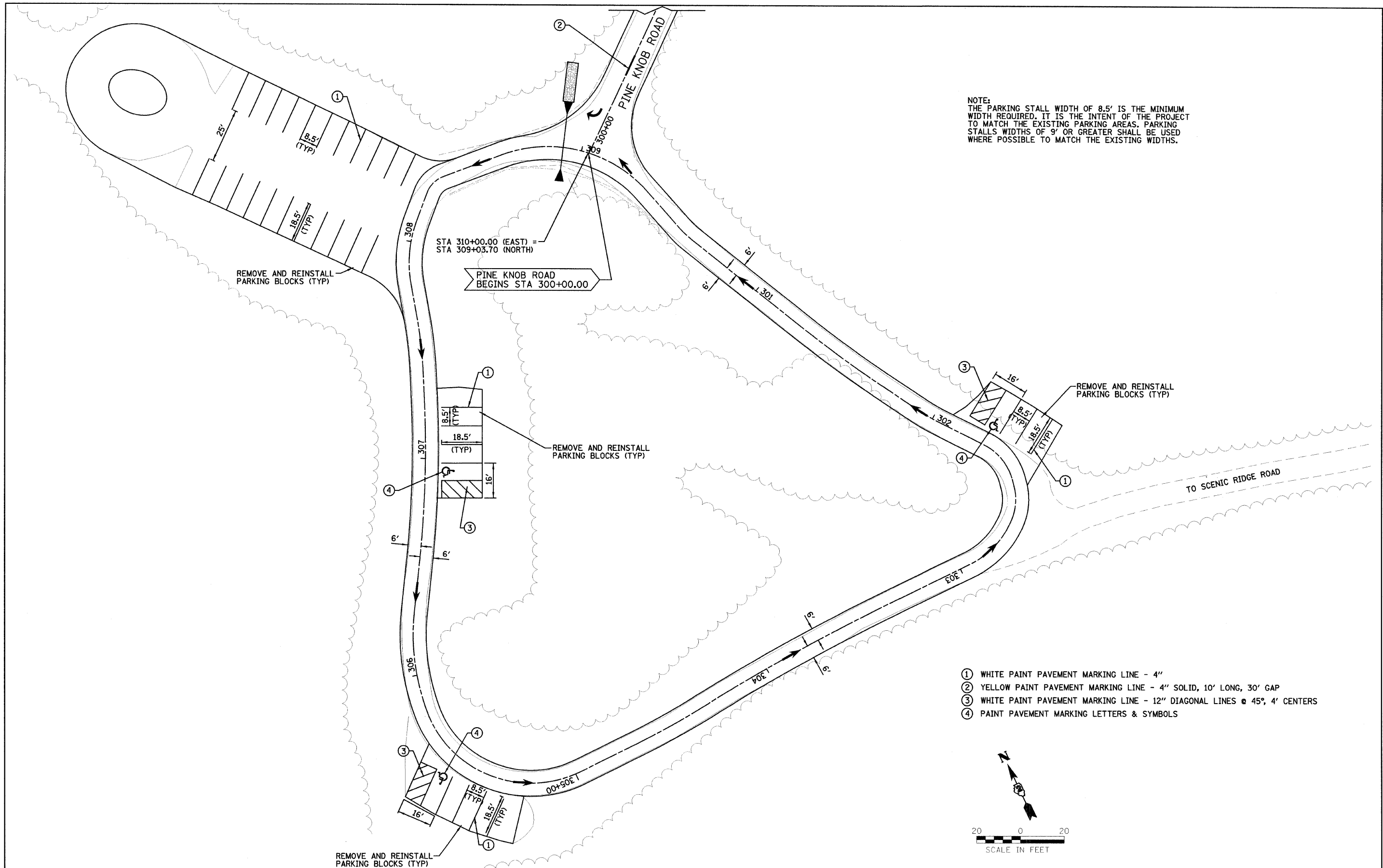
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**  
**DIVISION OF HIGHWAYS**

**DRAINAGE STRUCTURES & MISCELLANEOUS DETAILS**

**IDOT/IDNR STATEWIDE**  
**MISSISSIPPI PALISADES STATE PARK**  
**PINE KNOB ROAD**

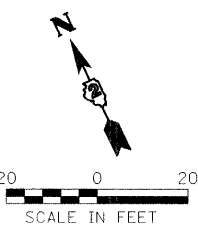
F.A.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PINE KNOB ROAD	CARROLL	35	16
CONTRACT NO. 46093				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		





NOTE:  
 THE PARKING STALL WIDTH OF 8.5' IS THE MINIMUM WIDTH REQUIRED. IT IS THE INTENT OF THE PROJECT TO MATCH THE EXISTING PARKING AREAS. PARKING STALLS WIDTHS OF 9' OR GREATER SHALL BE USED WHERE POSSIBLE TO MATCH THE EXISTING WIDTHS.

- ① WHITE PAINT PAVEMENT MARKING LINE - 4"
- ② YELLOW PAINT PAVEMENT MARKING LINE - 4" SOLID, 10' LONG, 30' GAP
- ③ WHITE PAINT PAVEMENT MARKING LINE - 12" DIAGONAL LINES @ 45°, 4' CENTERS
- ④ PAINT PAVEMENT MARKING LETTERS & SYMBOLS



DESIGNED - LAW	REVISED -
DRAWN - DRR	REVISED -
CHECKED - PJM	REVISED -
DATE - 01/27/10	REVISED -

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

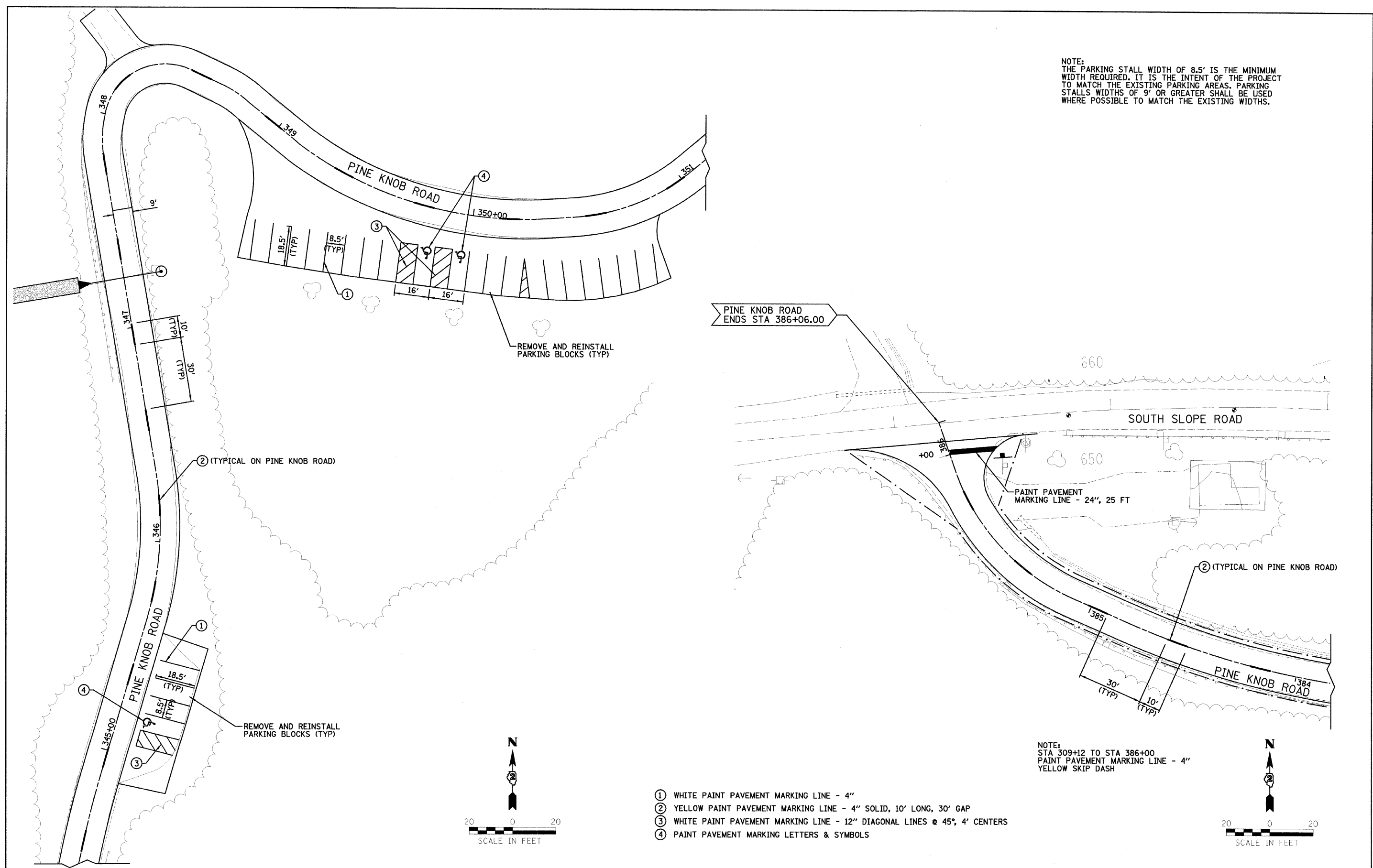
**PAVEMENT MARKING PLAN**

SCALE: SHEET NO. 17 OF 35 SHEETS STA. TO STA.

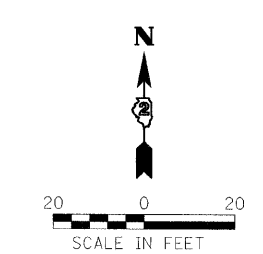
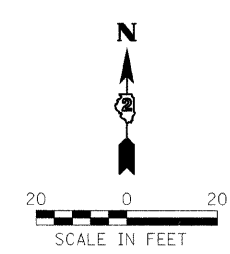
**IDOT/IDNR STATEWIDE  
 MISSISSIPPI PALISADES STATE PARK  
 PINE KNOB ROAD**

F.A.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PINE KNOB ROAD	CARROLL	35	17
CONTRACT NO. 46093				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

NOTE:  
 THE PARKING STALL WIDTH OF 8.5' IS THE MINIMUM WIDTH REQUIRED. IT IS THE INTENT OF THE PROJECT TO MATCH THE EXISTING PARKING AREAS. PARKING STALLS WIDTHS OF 9' OR GREATER SHALL BE USED WHERE POSSIBLE TO MATCH THE EXISTING WIDTHS.



- ① WHITE PAINT PAVEMENT MARKING LINE - 4"
- ② YELLOW PAINT PAVEMENT MARKING LINE - 4" SOLID, 10' LONG, 30' GAP
- ③ WHITE PAINT PAVEMENT MARKING LINE - 12" DIAGONAL LINES @ 45°, 4' CENTERS
- ④ PAINT PAVEMENT MARKING LETTERS & SYMBOLS



NOTE:  
 STA 309+12 TO STA 386+00  
 PAINT PAVEMENT MARKING LINE - 4"  
 YELLOW SKIP DASH

DESIGNED - LAW	REVISED -
DRAWN - DRR	REVISED -
CHECKED - PJM	REVISED -
DATE - 01/27/10	REVISED -

**STATE OF ILLINOIS**  
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**DIVISION OF HIGHWAYS**

**PAVEMENT MARKING PLAN**

SCALE: SHEET NO. 18 OF 35 SHEETS STA. TO STA.

**IDOT/IDNR STATEWIDE**  
**MISSISSIPPI PALISADES STATE PARK**  
**PINE KNOB ROAD**

F.A.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PINE KNOB ROAD	CARROLL	35	18
CONTRACT NO. 46093				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

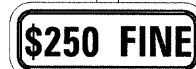
# RESERVED PARKING SIGN DETAIL

IDOT NO. 10515  
(R7-8)  
300x450 (12"x18")



SIGN PANEL, TYPE 1

IDOT NO. 10516  
(R7-101)  
300x450 (12"x6")



**NOTES**

THE SIGN PANEL AND SIGN SUPPORT SHALL BE PLACED AT EACH DISABLED PARKING STALL. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE METER (SQUARE FOOT) FOR SIGN PANEL, TYPE 1 AND PER METER (FOOT) FOR TELESCOPING STEEL SIGN SUPPORT.

TELESCOPING STEEL SIGN SUPPORT  
2.1 m (7') MIN.

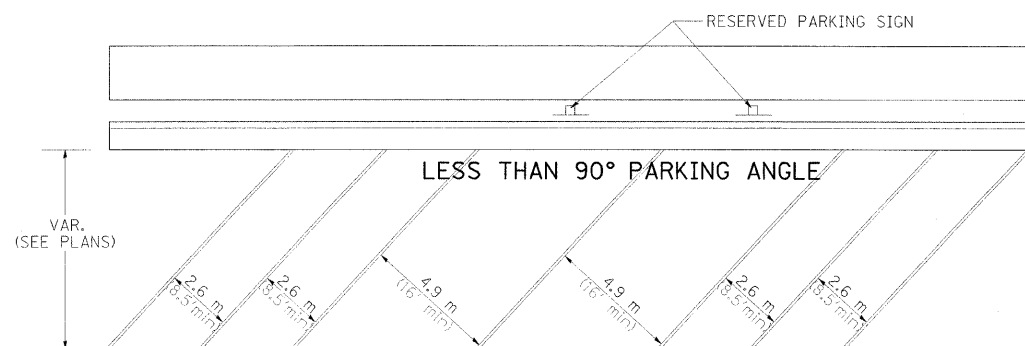
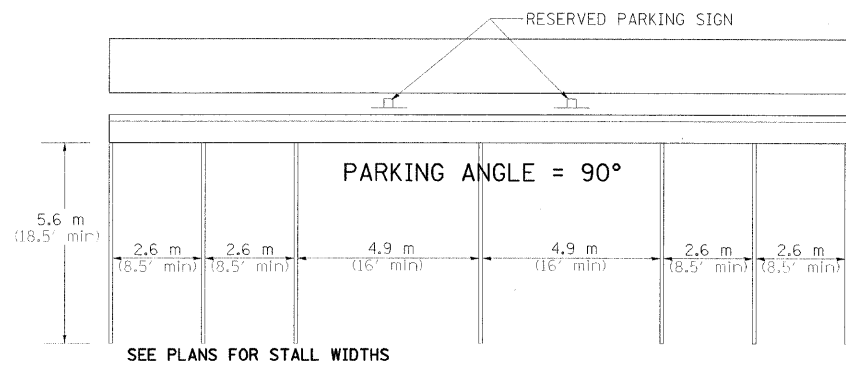
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

**QUANTITIES**

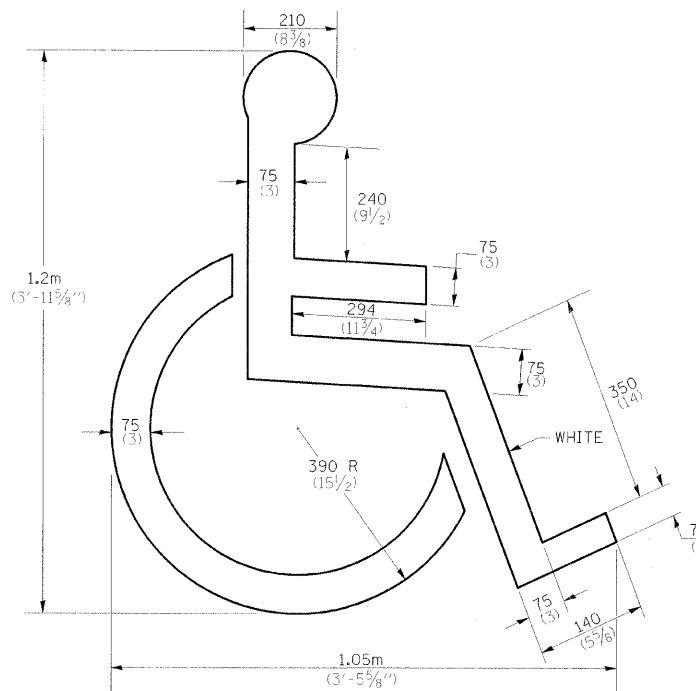
3.6 m (12 FT) OF SIGN SUPPORT AND 0.2 m<sup>2</sup> (2 SQ FT) OF SIGN PANEL IS REQUIRED AT EACH LOCATION.



## DISABLED PARKING STRIPING



## DISABLED SYMBOL



**QUANTITY**

0.27 m<sup>2</sup> (2.9 ft<sup>2</sup>)

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

DESIGNED - LAW	REVISED -
DRAWN - DRR	REVISED -
CHECKED - PJM	REVISED -
DATE - 01/27/10	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**DISTRICT DETAILS**

SCALE: SHEET NO. 19 OF 35 SHEETS STA. TO STA.

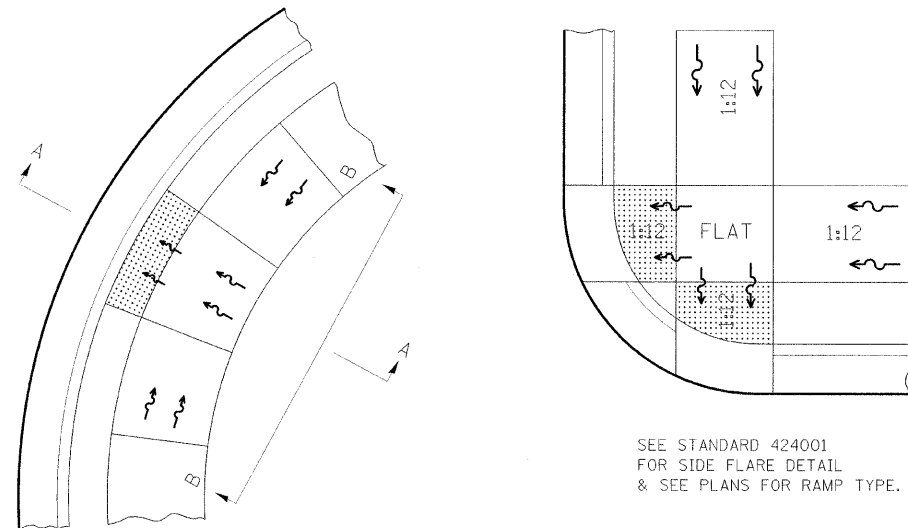
IDOT/DNR STATEWIDE  
MISSISSIPPI PALISADES STATE PARK  
PINE KNOB ROAD

F.A.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PINE KNOB ROAD	CARROLL	35	19
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 46093	

FARNSWORTH GROUP, INC.

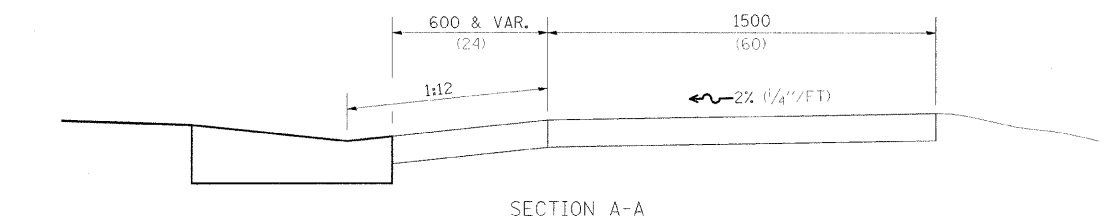
CONSULTING ENGINEERS - 2709 MCGRAW DRIVE BLOOMINGTON, ILLINOIS 61704 (309) 663-8435 / (309) 663-1571 FAX

### DISABLED RAMP DETAIL

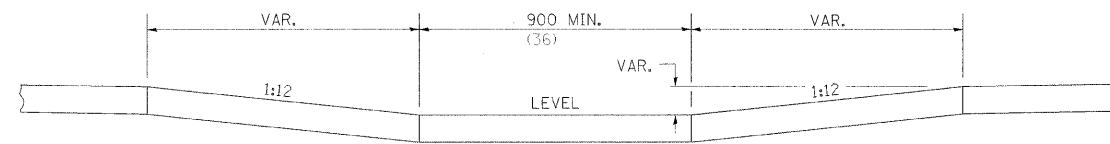


SEE STANDARD 424001 FOR SIDE FLARE DETAIL & SEE PLANS FOR RAMP TYPE.

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



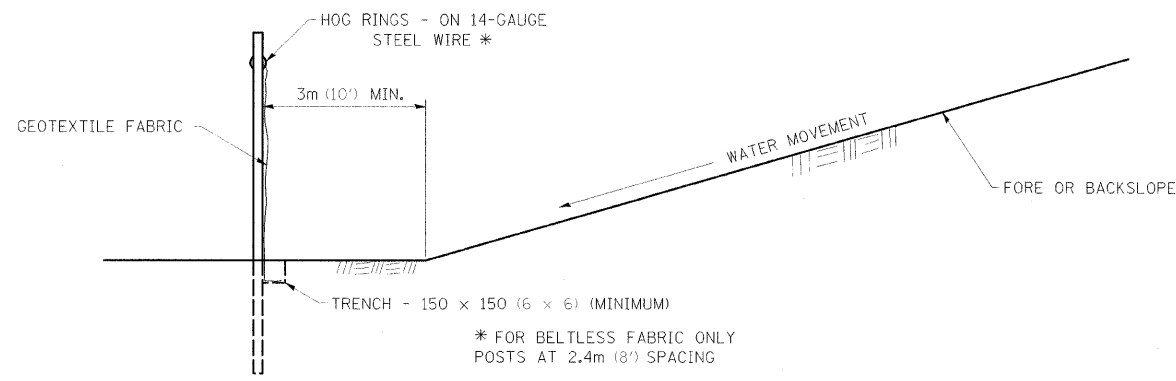
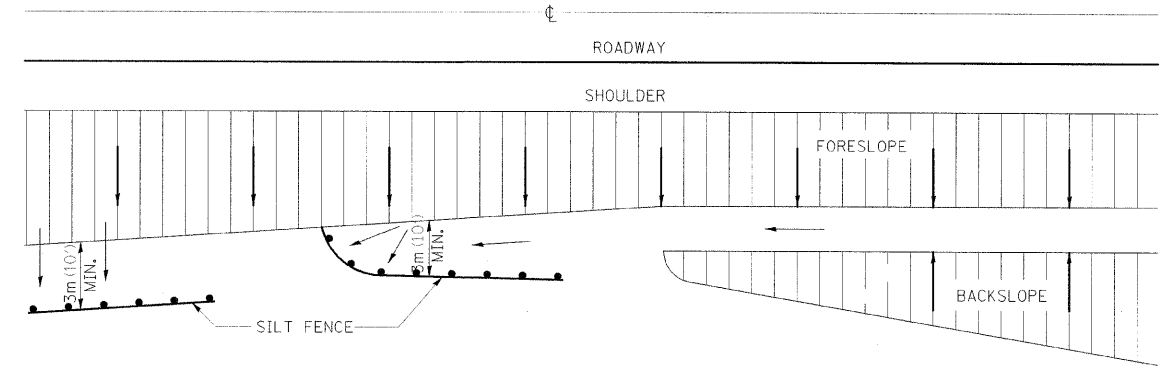
SECTION A-A



SECTION B-B

NOTES : THIS DETAIL TO BE USED IN CONJUNCTION WITH STATE STANDARD 424001. THE MAXIMUM ALLOWABLE CROSS SLOPE FOR SIDEWALK IS 2% (1/4"/FT) . THE MAXIMUM ALLOWABLE SIDEWALK GRADE IS 8% (1/2"/FT) . IF SPACE LIMITATIONS PROHIBIT THE USE OF THE 1:12 SLOPE, THEN SLOPES BETWEEN 1:10 ARE 1:12 ARE PERMITTED FOR A MAXIMUM RISE OF 150 (6) . SLOPES 1:8 AND 1:10 ARE ALLOWED FOR A MAXIMUM RISE OF 75 (3) . SLOPES STEEPER THAN 1:8 ARE NOT PERMITTED. THE DEPRESSED CURB IS NOT STANDARD. THE RISE IS 13(1/2) INSTEAD OF 40(1/2) .

### EROSION CONTROL DETAILS FOR SILT FENCE



DETAILS OF SILT FENCE

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

DESIGNED - LAW	REVISED -
DRAWN - DRR	REVISED -
CHECKED - PJM	REVISED -
DATE - 01/27/10	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

DISTRICT DETAILS

IDOT/IDNR STATEWIDE  
MISSISSIPPI PALISADES STATE PARK  
PINE KNOB ROAD

F.A.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PINE KNOB ROAD	CARROLL	35	20
CONTRACT NO. 46093				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

FARNSWORTH GROUP, INC.

CONSULTING ENGINEERS - 2709 MCGRAW DRIVE BLOOMINGTON, ILLINOIS 61704 (309) 663-8435 / (309) 663-1571 FAX

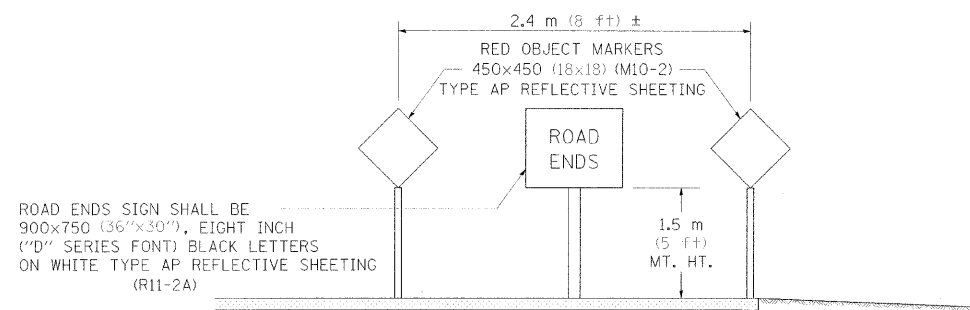
24-8277

# TERMINATION OF DEAD END ROADS

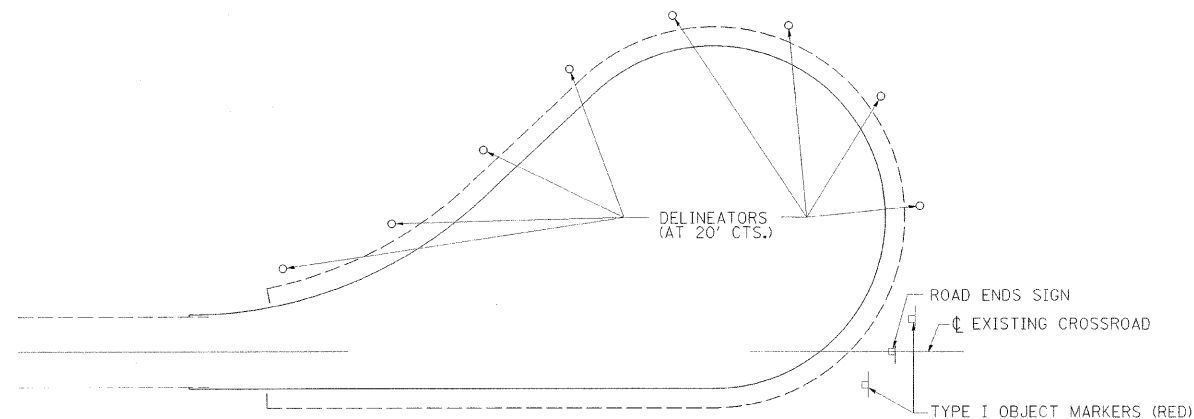
**NOTES:** A "NO OUTLET" (36"x36" YELLOW) SIGN SHALL BE ERECTED SLIGHTLY BEYOND THE LAST ROAD INTERSECTING THE ROAD WITH NO OUTLET. IF THIS INTERSECTION IS MORE THAN 457 m (1500 FT) FROM TERMINATION POINT, OR IF SIGHT DISTANCE TO THE CLOSURE IS LESS THAN 152 m (500 FT), A ROAD ENDS 152m (500 FT.) (WB-16) SIGN SHALL BE ERECTED 152m (500 FT.) IN ADVANCE OF THE TERMINATION OF THE ROAD. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR "TERMINATION OF DEAD END ROADS" WHICH PRICE SHALL INCLUDE ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO INSTALL THE SIGNS AND DELINEATORS.

USE 100x150 (4x6) WOOD POSTS INSTALLED IN ACCORDANCE WITH ARTICLE 730.0 OF STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS. USE APPLICABLE PARTS OF STANDARD 720001 FOR SIGN MOUNTING.

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

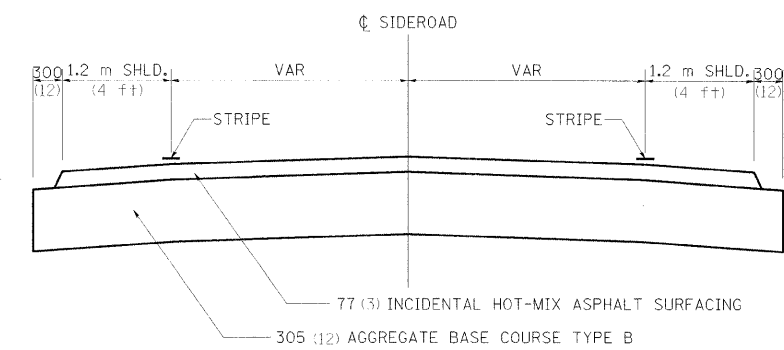
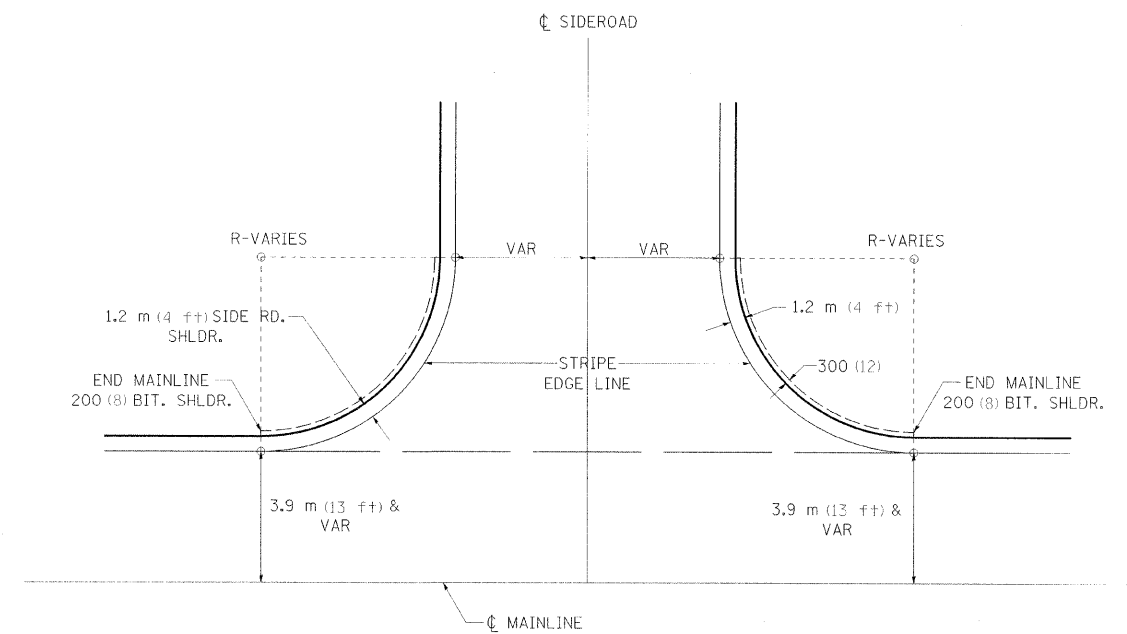


TERMINATION SIGNING



TRAFFIC CONTROL  
TYPICAL CUL-DE-SAC

# TYPICAL AGGREGATE BASE SIDEROAD



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

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DRAWN - DRR	REVISED -
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DATE - 01/27/10	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

DISTRICT DETAILS

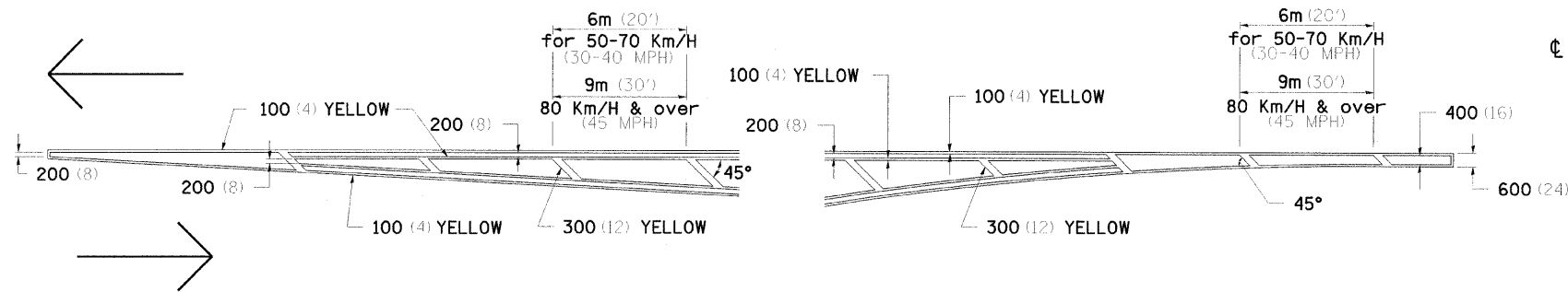
SCALE: SHEET NO. 21 OF 35 SHEETS STA. TO STA.

IDOT/IDNR STATEWIDE  
MISSISSIPPI PALISADES STATE PARK  
PINE KNOB ROAD

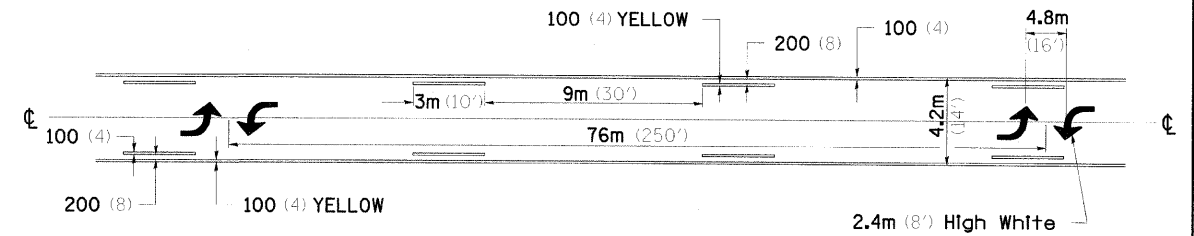
F.A.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PINE KNOB ROAD	CARROLL	35	21
CONTRACT NO. 46093				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

# TYPICAL PAVEMENT MARKINGS

## TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

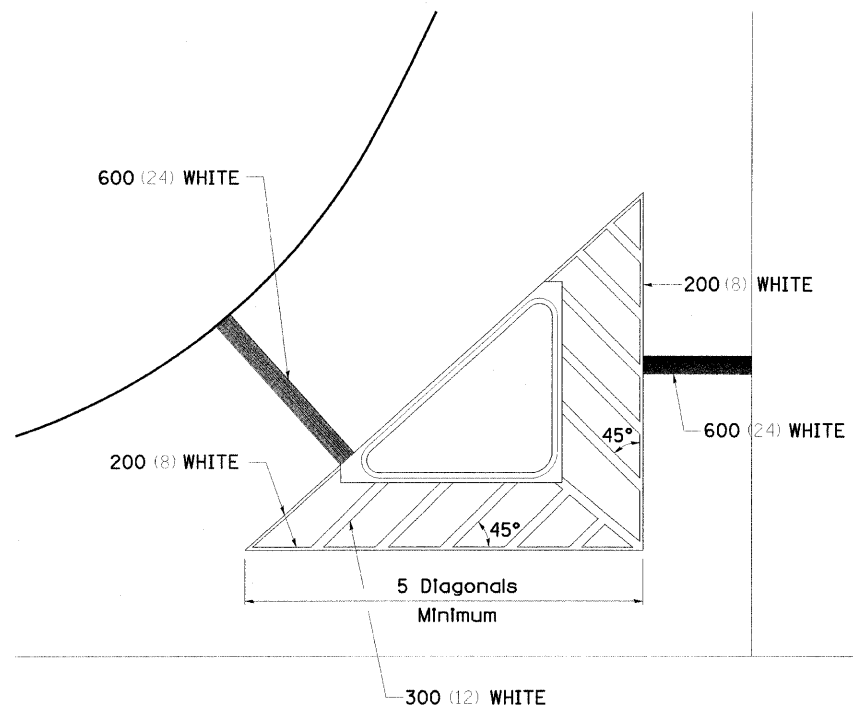


## MEDIAN PAVEMENT MARKING

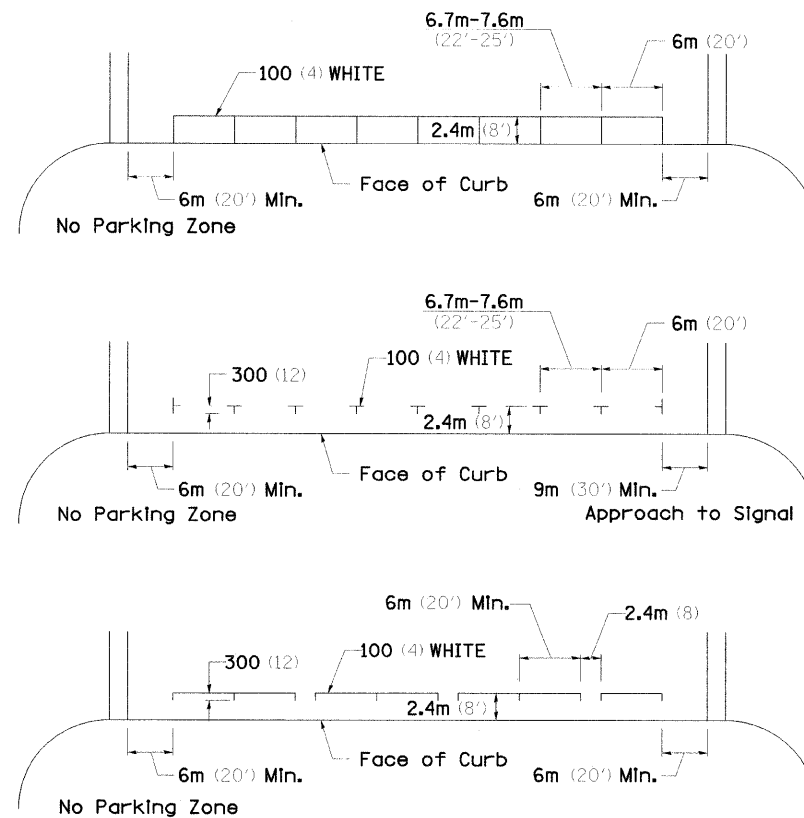


\*\* ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

## TYPICAL ISLAND OFFSET SHOULDER WIDTH

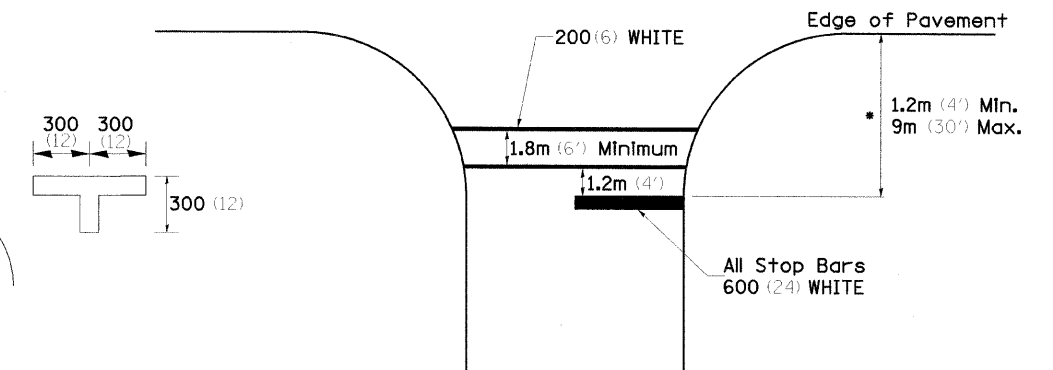


## TYPICAL PARKING SPACING



## STANDARD CROSSWALK MARKING

See Schedules for Locations



• Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

DESIGNED - LAW	REVISED - 7-20-06
DRAWN - DRR	REVISED -
CHECKED - PJM	REVISED -
DATE - 01/27/10	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

DISTRICT DETAILS

SCALE: SHEET NO. 22 OF 35 SHEETS STA. TO STA.

IDOT/IDNR STATEWIDE  
MISSISSIPPI PALISADES STATE PARK  
PINE KNOB ROAD

F.A.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PINE KNOB ROAD	CARROLL	35	22
CONTRACT NO. 46093				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FARNSWORTH GROUP, INC.

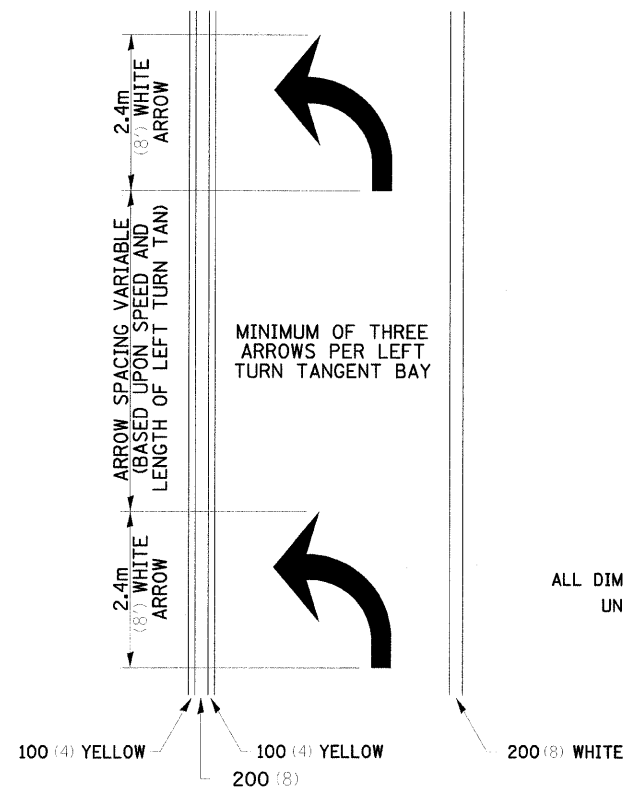
CONSULTING ENGINEERS - 2709 MCGRAW DRIVE BLOOMINGTON, ILLINOIS 61704 (309) 663-8435 / (309) 663-1571 FAX

TYPICAL PAVEMENT MARKINGS SHEET 1 OF 2 41.1

24-8277

# TYPICAL PAVEMENT MARKINGS

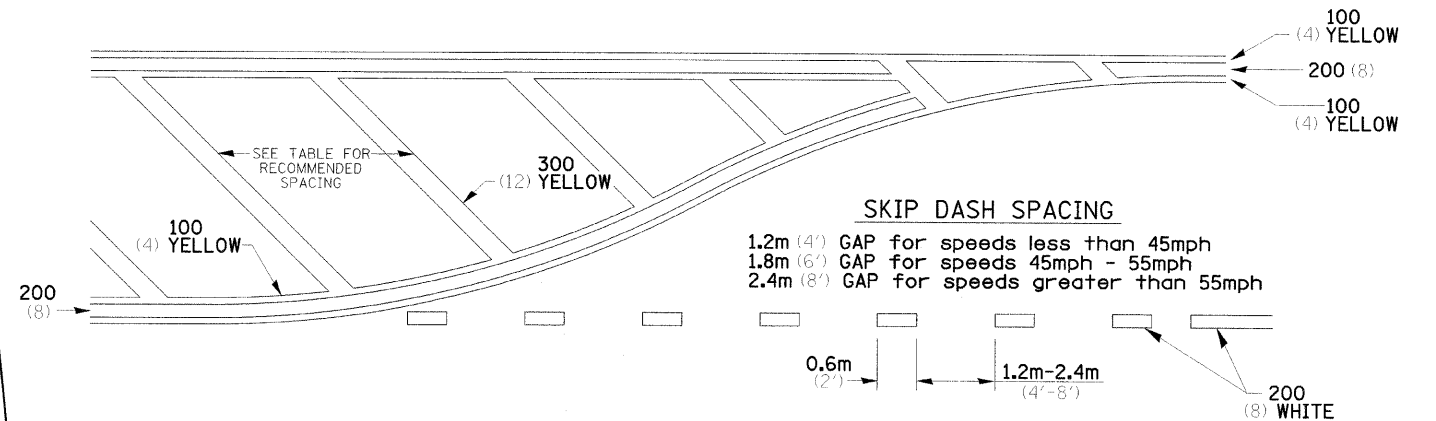
## ARROW LAYOUT



- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER
- ◆ TWO-WAY AMBER MARKER

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

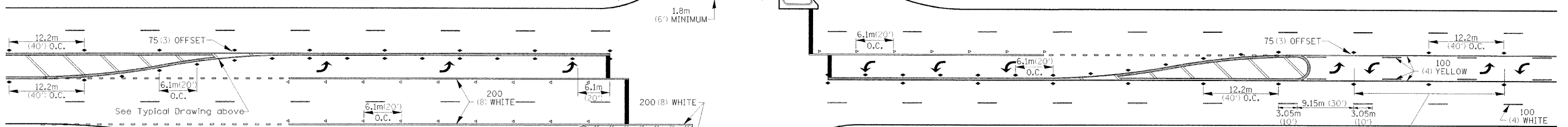
## TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



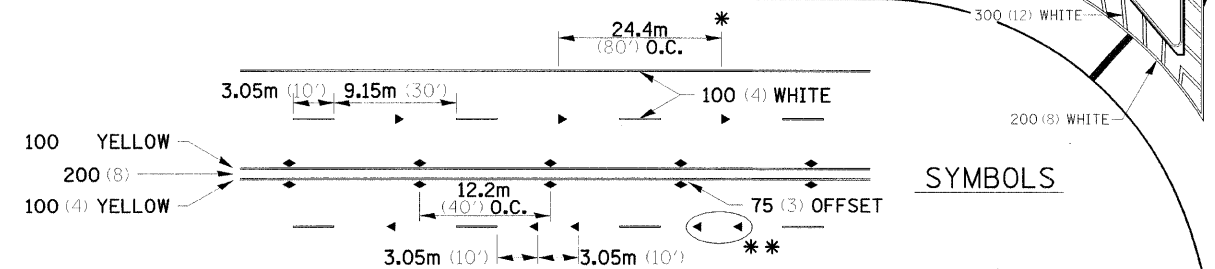
## RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 50Km/H (30MPH)	15.3m (50')	4.53m (15')	3.05m (10')
50-60Km/H (30-40MPH)	22.9m (75')	6.1m (20')	4.53m (15')
70Km/H (45MPH) & over	22.9m (75')	9.05m (30')	6.1m (20')

NOTE: If the spacing recommended in the Table does not permit at least five diagonal lines in the area being marked, the spacing from the next lowest speed range should be used. The recommended spacing is measured parallel to the pavement center line.



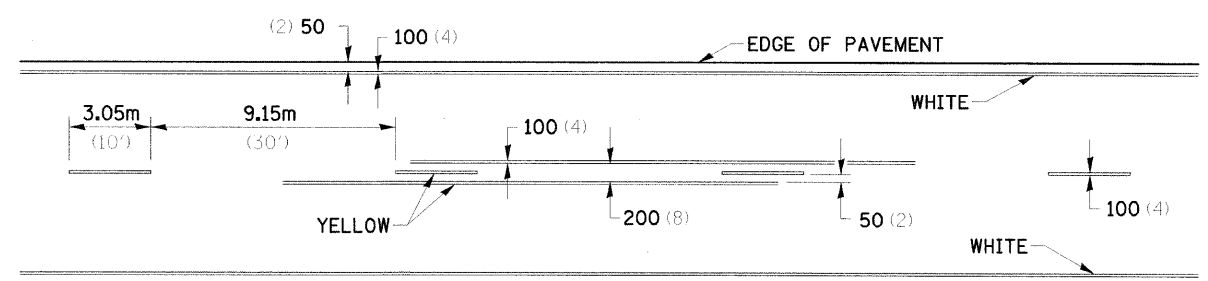
MINIMUM OF TWO PAIRS OF ARROWS. ADDITIONAL PAIRS EVERY 200'-300'.



- \* REDUCE TO 12.2m (40') O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 15Km/H (10MPH) LOWER THAN POSTED SPEEDS.
- \*\* USE DOUBLE MARKERS WHEN ADT ≥ 25,000

## MULTI-LANE / UNDIVIDED

## TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION - NO PASSING ZONES



## SYMBOLS

See Typical Drawing above

12.2m (40') O.C. APPROACH SIDE ONLY

DESIGNED - LAW	REVISED - 7-20-06
DRAWN - DRR	REVISED -
CHECKED - PJM	REVISED -
DATE - 01/27/10	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

## DISTRICT DETAILS

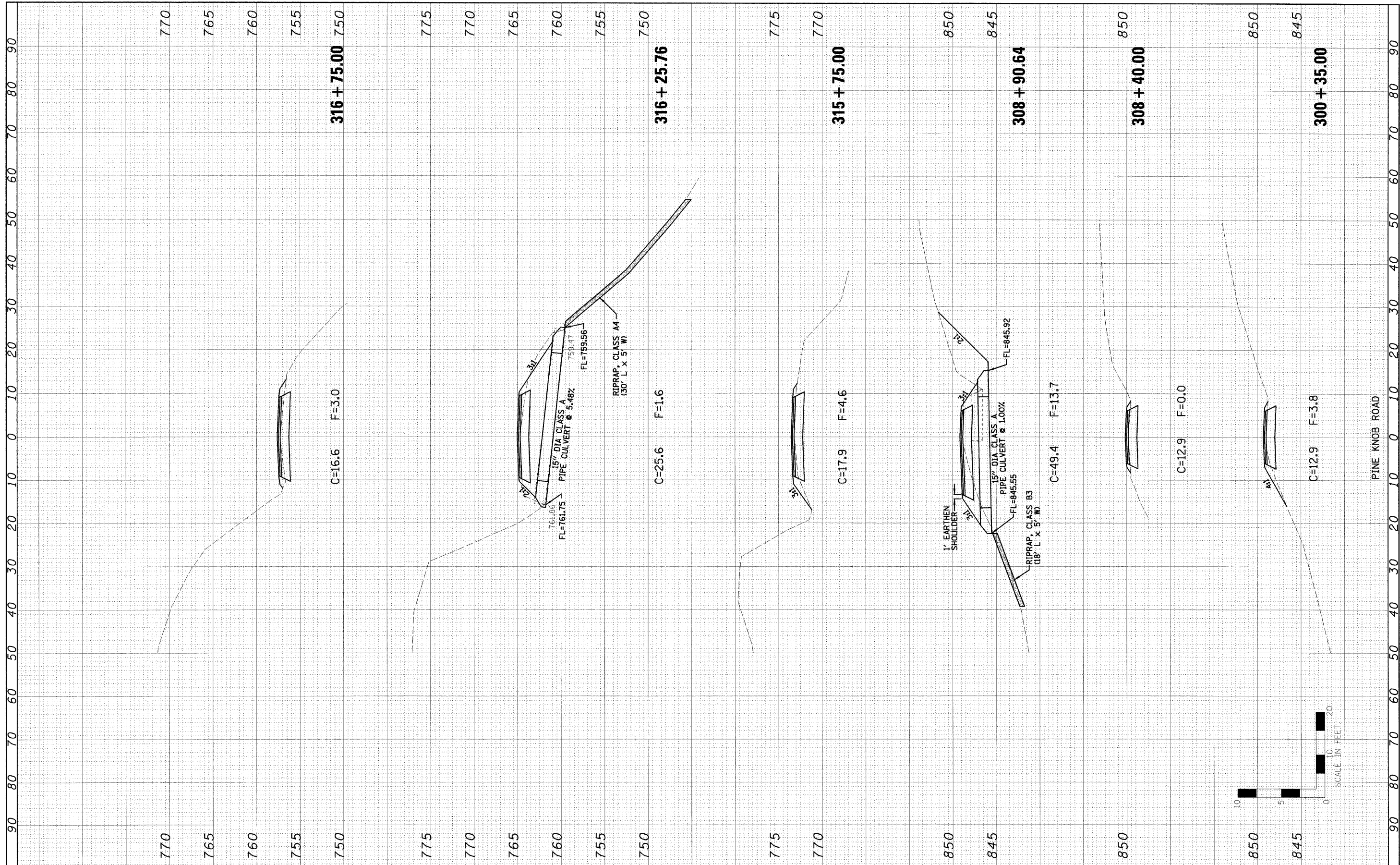
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IDOT/IDNR STATEWIDE  
MISSISSIPPI PALISADES STATE PARK  
PINE KNOB ROAD

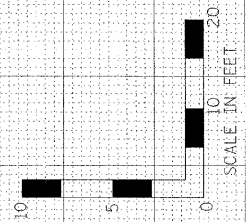
F.A.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PINE KNOB ROAD	CARROLL	35	23
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 46093	

FINAL	REVISIONS	BY	DATE
SURVEY	NOTED		
NOTE BOOK	TEMPLATE		
AREAS	CHECKED		
NO.			

ORIGINAL	REVISIONS	BY	DATE
SURVEY	NOTED		
NOTE BOOK	TEMPLATE		
AREAS	CHECKED		
NO.			



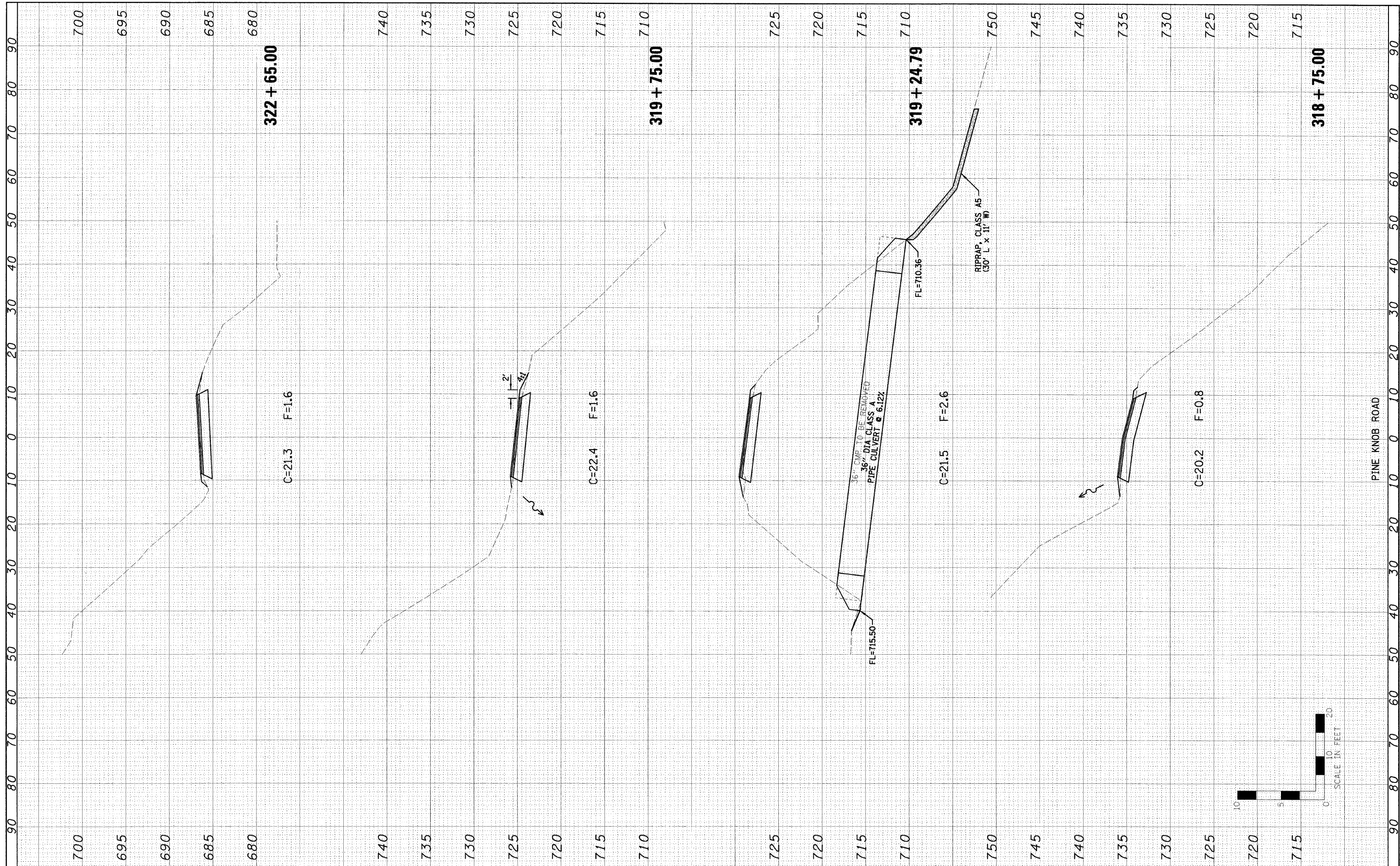
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8111.F1 \$		DRAWN - JJO	REVISED -		SCALE:	SHEET NO. 24 OF 35 SHEETS	STA. 300+35.00 TO STA. 316+75.00	PINE KNOB ROAD	CARROLL	35	24
		CHECKED - PJM	REVISED -								
		DATE - 01/27/10	REVISED -								
							CONTRACT NO.				
							FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				





FINAL SURVEY NOTE BOOK NO.	NUMBER PLOTTED	BY	DATE
	AREAS CHECKED		

ORIGINAL SURVEY NOTE BOOK NO.	REVISED PLOTTED	BY	DATE
	AREAS CHECKED		



FILE NAME	USER NAME	DESIGNED	REVISIONS
#FILEL#	#USER#	LAW	
		JJO	
		PJM	
		01/27/10	

DESIGNED	REVISIONS
LAW	
JJO	
PJM	
01/27/10	

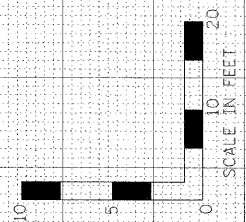
DESIGNED	REVISIONS
LAW	
JJO	
PJM	
01/27/10	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PINE KNOB ROAD  
CROSS SECTIONS**

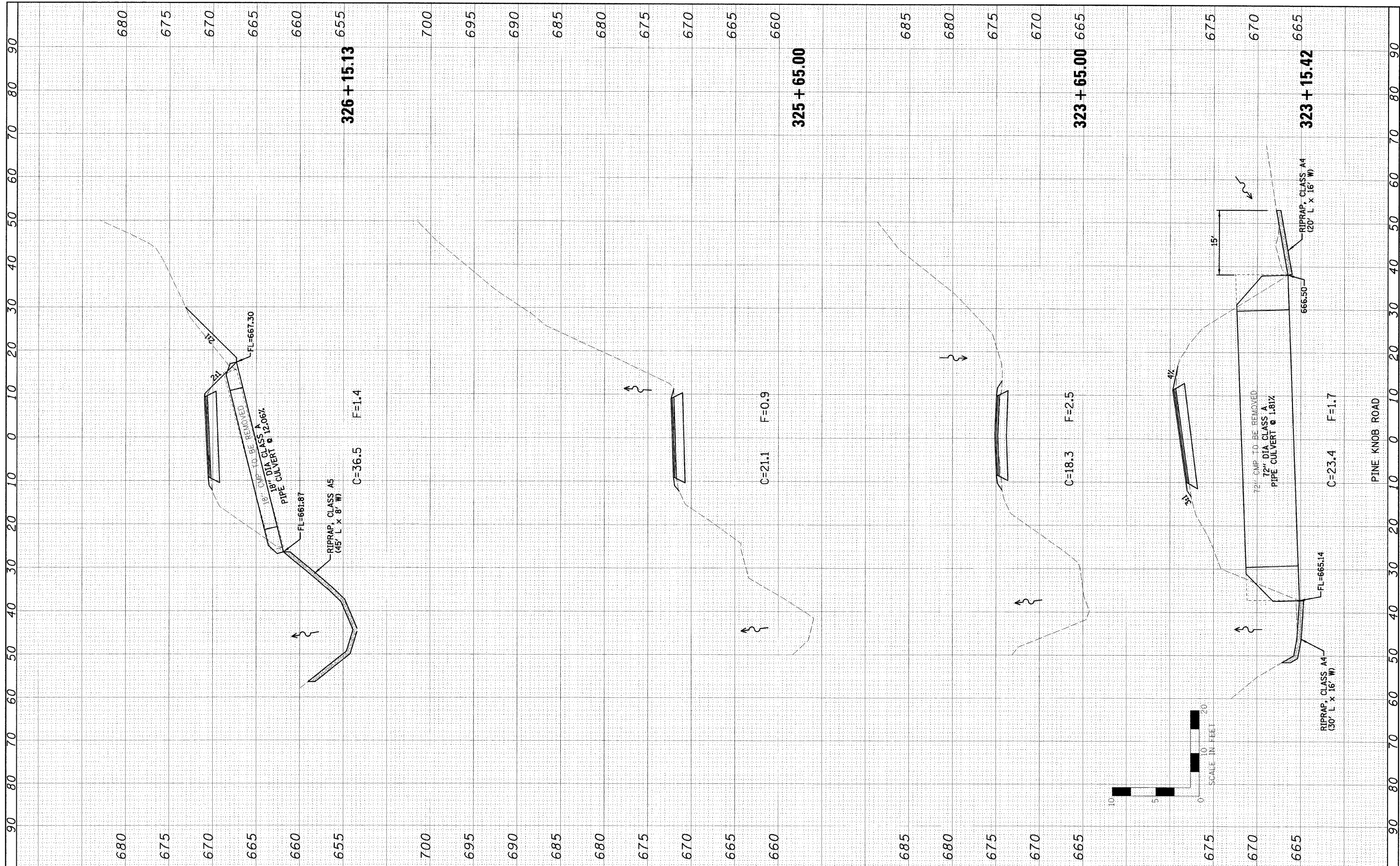
SCALE: SHEET NO. 25 OF 35 SHEETS STA. 318+75.00 TO STA. 322+65.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PINE KNOB ROAD	CARROLL	35	25
CONTRACT NO.				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



FINAL SURVEY	SUPERVISOR	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS	CHECKED
	AREAS	CHECKED

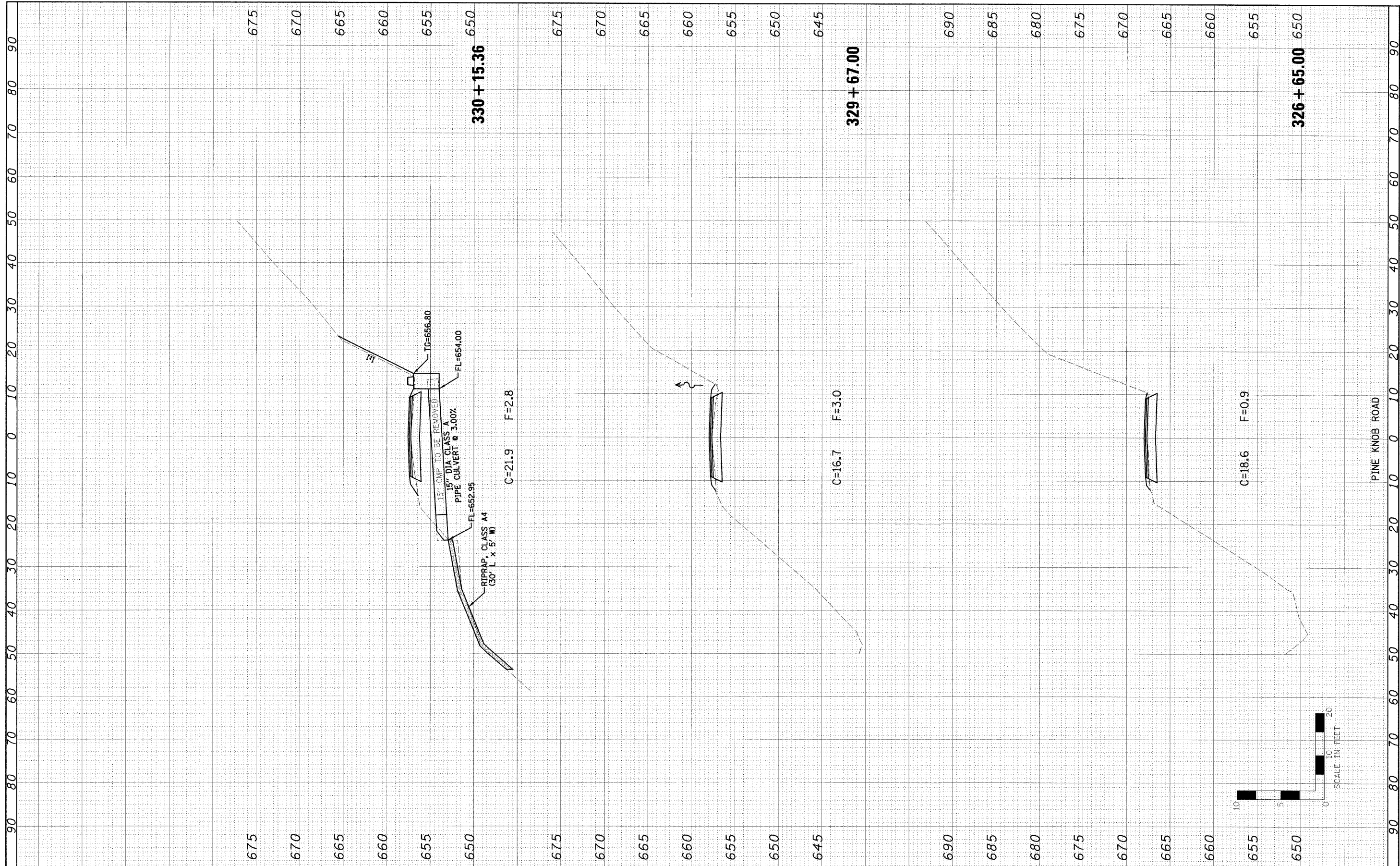
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NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS	CHECKED
	AREAS	CHECKED



FILE NAME = #FILEL#	USER NAME = #USER#	DESIGNED - LAW	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>PINE KNOB ROAD</b> <b>CROSS SECTIONS</b>	SCALE:	SHEET NO. 26 OF 35 SHEETS	STA. 323+15.42 TO STA. 326+15.13	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
		DRAWN - JJO	REVISED -								PINE KNOB ROAD	CARROLL	35	26	
		CHECKED - PJM	REVISED -												
		DATE - 01/27/10	REVISED -												
										<b>CONTRACT NO.</b>					
										FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

FINAL	DATE
SUPPLY	BY
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

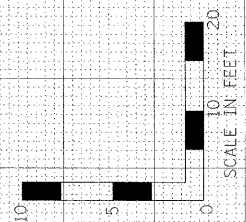
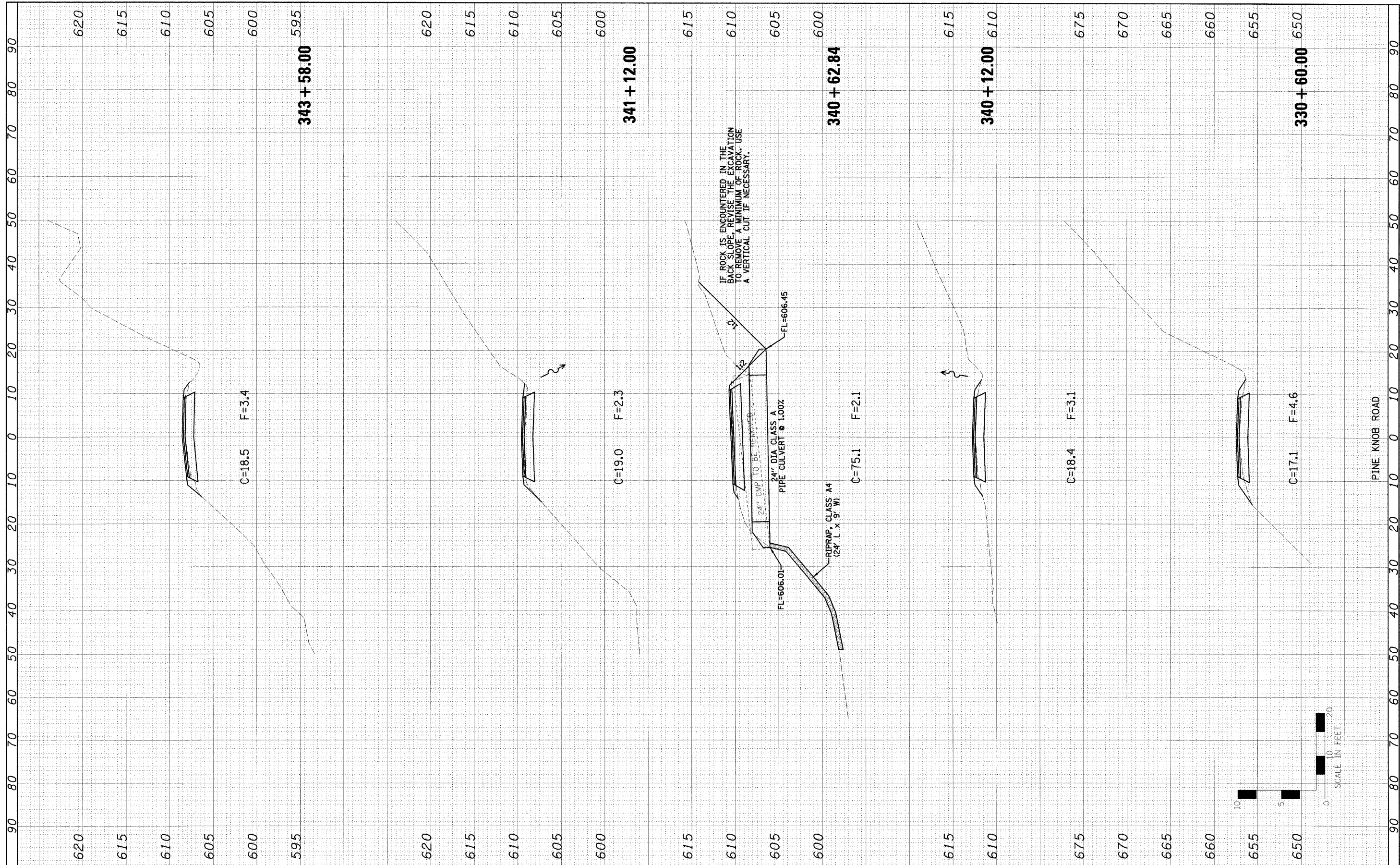
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SURVEY	BY
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
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#FILE#		DRAWN - JJO	REVISED -					PINE KNOB ROAD	CARROLL	35	27
PLOT SCALE = #SCALE#		CHECKED - PJM	REVISED -			SCALE:	SHEET NO. 27 OF 35 SHEETS	CONTRACT NO.			
PLOT DATE = #DATE#		DATE - 01/27/10	REVISED -				STA. 326+65.00 TO STA. 330+15.36	ILLINOIS FED. AID PROJECT			

FINAL	SURVEYED	BY	DATE
SURVEY	RECTIFIED		
NOTE BOOK	TEMPLATE		
NO.	AREAS	CHECKED	

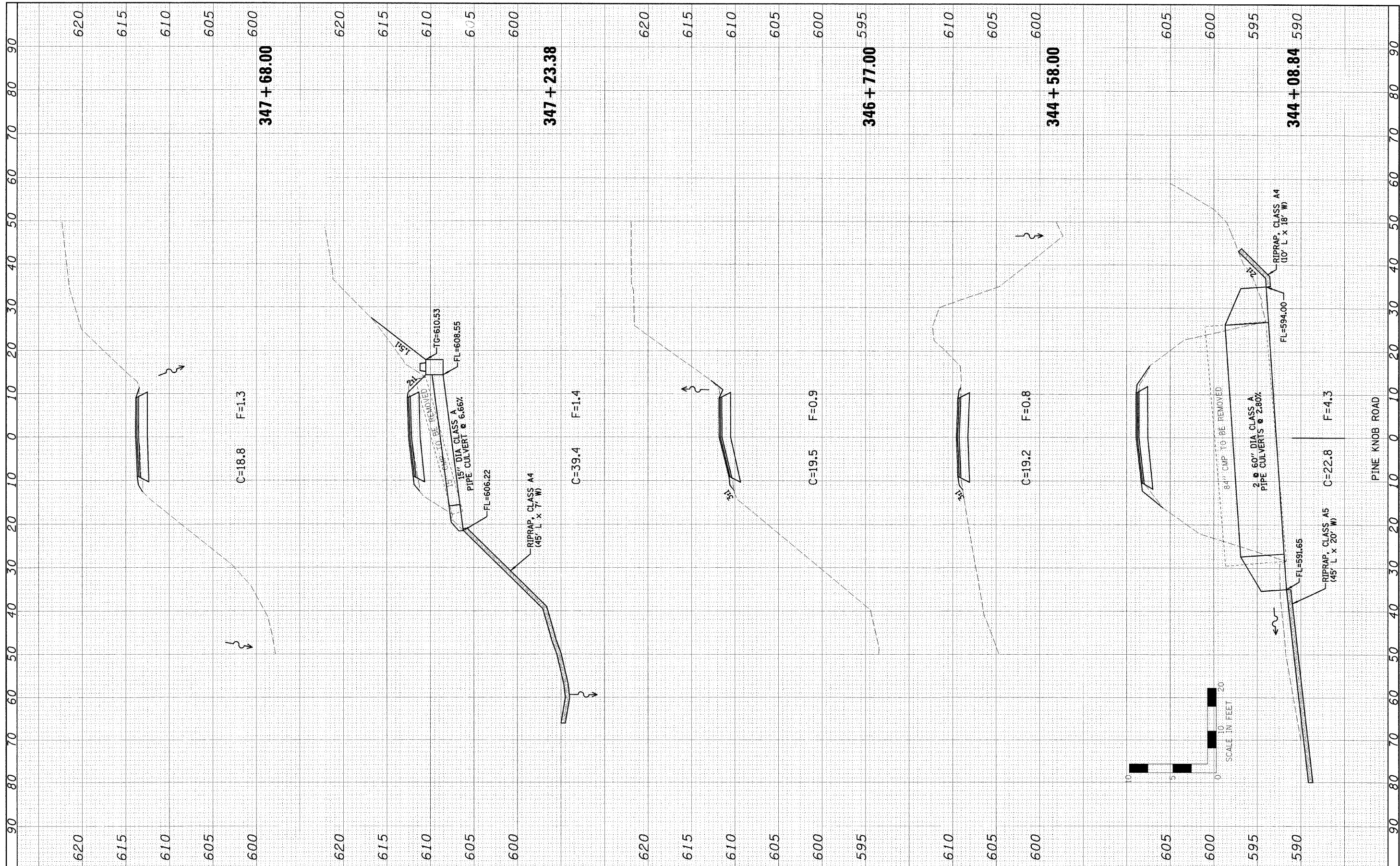
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NOTE BOOK	
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FILE NAME	USER NAME = #USER#	DESIGNED - LAW	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PINE KNOB ROAD CROSS SECTIONS</b>		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILEL#	PLOT SCALE = #SCALE#	DRAWN - JJO	REVISED -		SCALE:	SHEET NO. 28 OF 35 SHEETS	STA. 330+60.00 TO STA. 343+58.00	PINE KNOB ROAD	CARROLL	35	28
	PLOT DATE = #DATE#	CHECKED - PJM	REVISED -								
		DATE - 01/27/10	REVISED -								
							CONTRACT NO.				
							FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

FINAL SURVEY	DATE
NOTED	BY
PLOTTED	
TEMPLATE	
AREAS	
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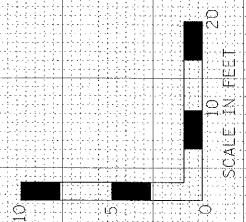
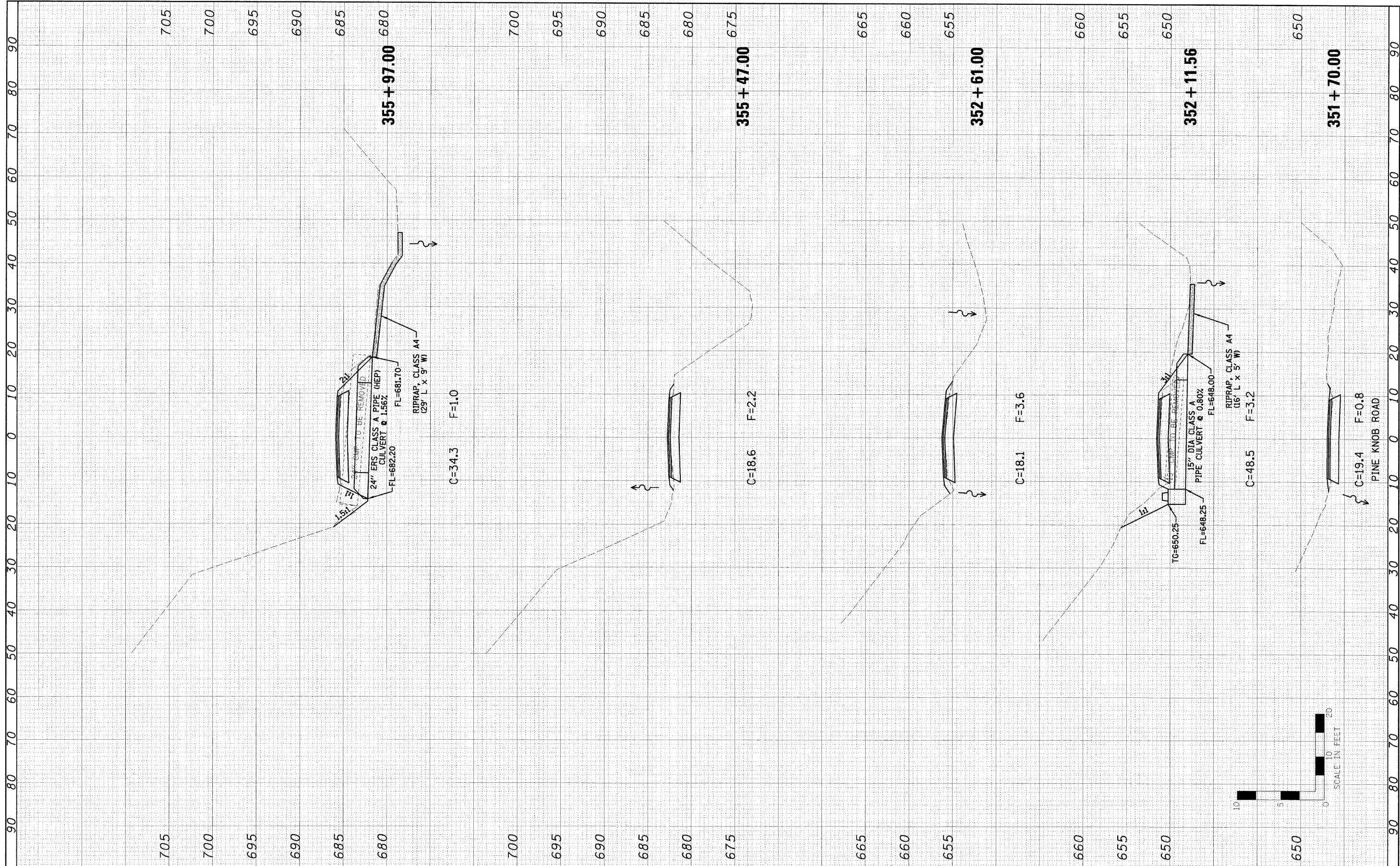
ORIGINAL SURVEY	DATE
NOTED	BY
PLOTTED	
TEMPLATE	
AREAS	
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#FILEL#		DRAWN - JJO	REVISED -		SCALE:	SHEET NO. 29 OF 35 SHEETS	STA. 344+08.84 TO STA. 347+68.00	PINE KNOB ROAD	CARROLL	35	29	
		CHECKED - PJM	REVISED -					<b>CONTRACT NO.</b>				
		DATE - 01/27/10	REVISED -					FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

FINAL SURVEY	NO. _____	DATE _____
DESIGNED	BY _____	DATE _____
DRAWN	BY _____	DATE _____
CHECKED	BY _____	DATE _____
DATE	BY _____	DATE _____

ORIGINAL SURVEY	NO. _____	DATE _____
DESIGNED	BY _____	DATE _____
DRAWN	BY _____	DATE _____
CHECKED	BY _____	DATE _____
DATE	BY _____	DATE _____



FILE NAME = #FILEL4

USER NAME = #USER4  
 PLOT SCALE = #SCALE4  
 PLOT DATE = #DATE#

DESIGNED - LAW  
 DRAWN - JJO  
 CHECKED - PJM  
 DATE - 01/27/10

REVISED -  
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

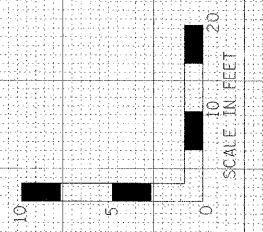
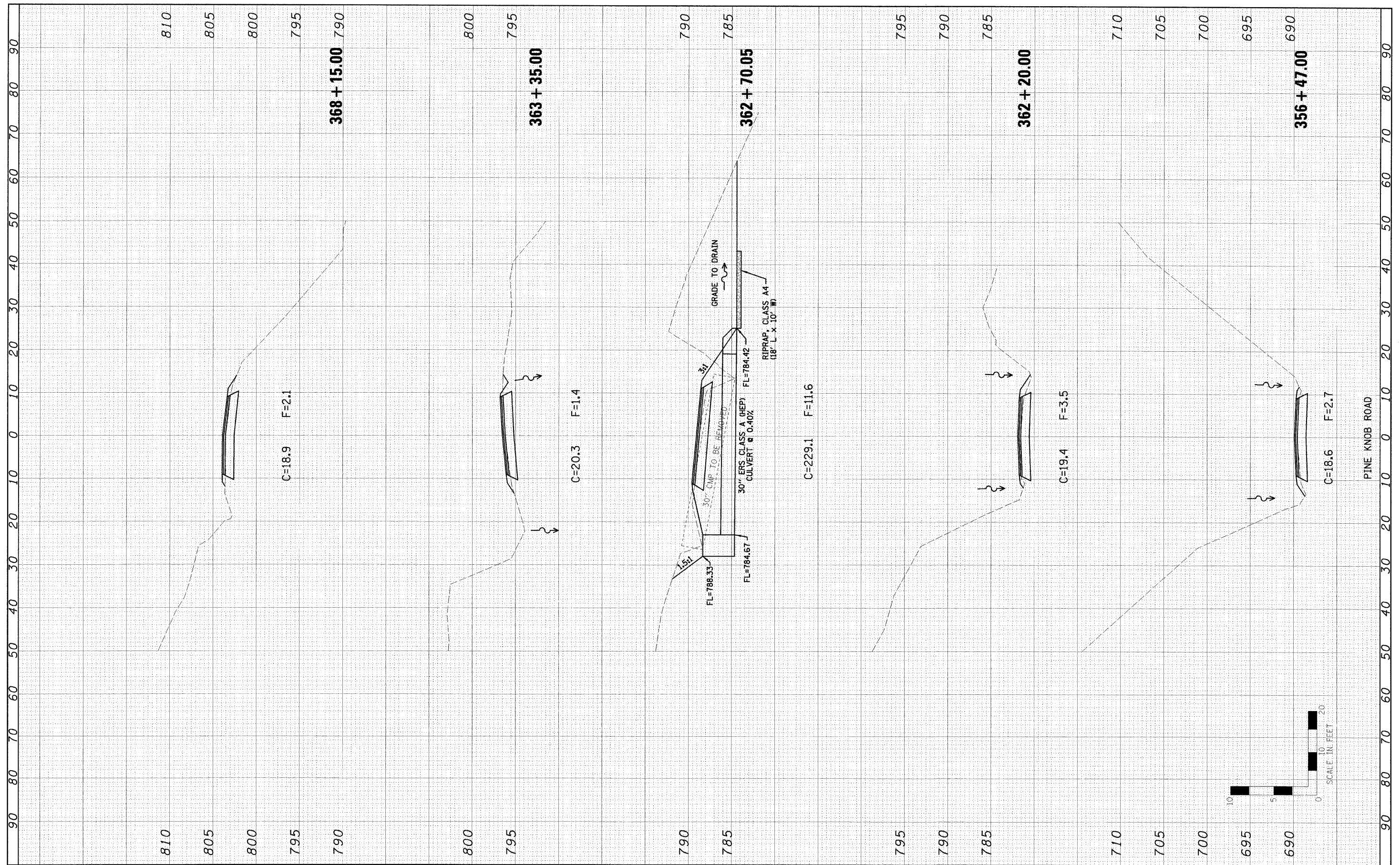
**PINE KNOB ROAD  
 CROSS SECTIONS**

SCALE: SHEET NO. 30 OF 35 SHEETS STA. 351+70.00 TO STA. 355+97.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PINE KNOB ROAD	CARROLL	35	30
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

FINAL SURVEY	REVISIONS	DATE
NOTE BOOK	PLOTTED	BY
NO.	AREAS CHECKED	

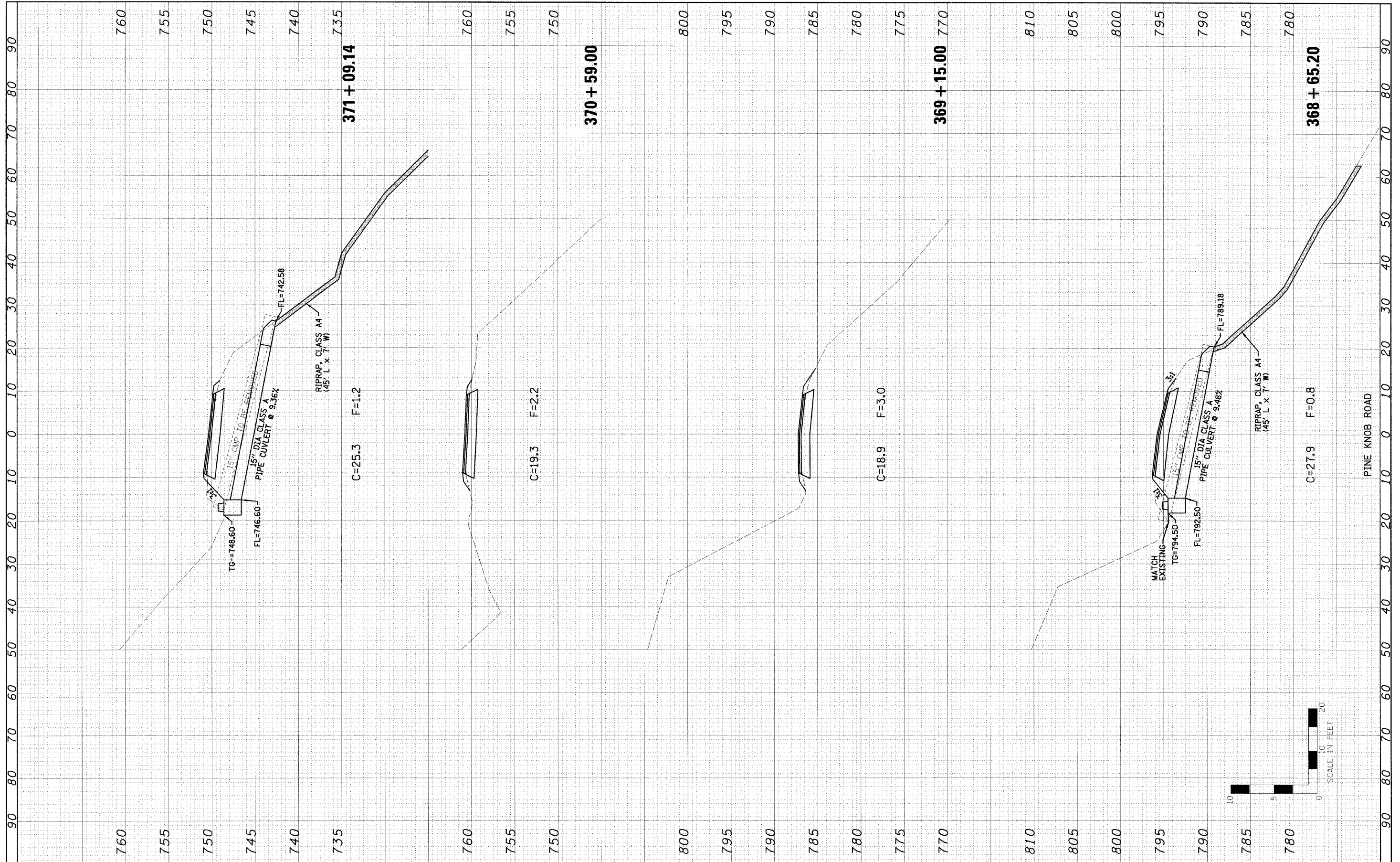
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NOTE BOOK	PLOTTED	BY
NO.	AREAS CHECKED	



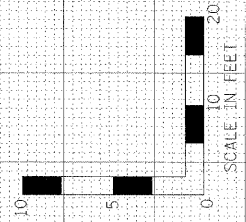
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#FILEL#		DRAWN - JJO	REVISED -		SCALE:	SHEET NO. 31 OF 35 SHEETS	STA. 356+47.00 TO STA. 368+15.00	PINE KNOB ROAD	CARROLL	35	31
		CHECKED - PJM	REVISED -					<b>CONTRACT NO.</b>			
		DATE - 01/27/10	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			

FINAL SURVEY	DATE
REPLACED	BY
PRINTED	
NOTE BOOK	
AREAS	
CHECKED	

ORIGINAL SURVEY	DATE
REPLACED	BY
PRINTED	
NOTE BOOK	
AREAS	
CHECKED	



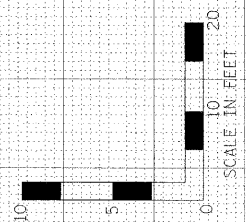
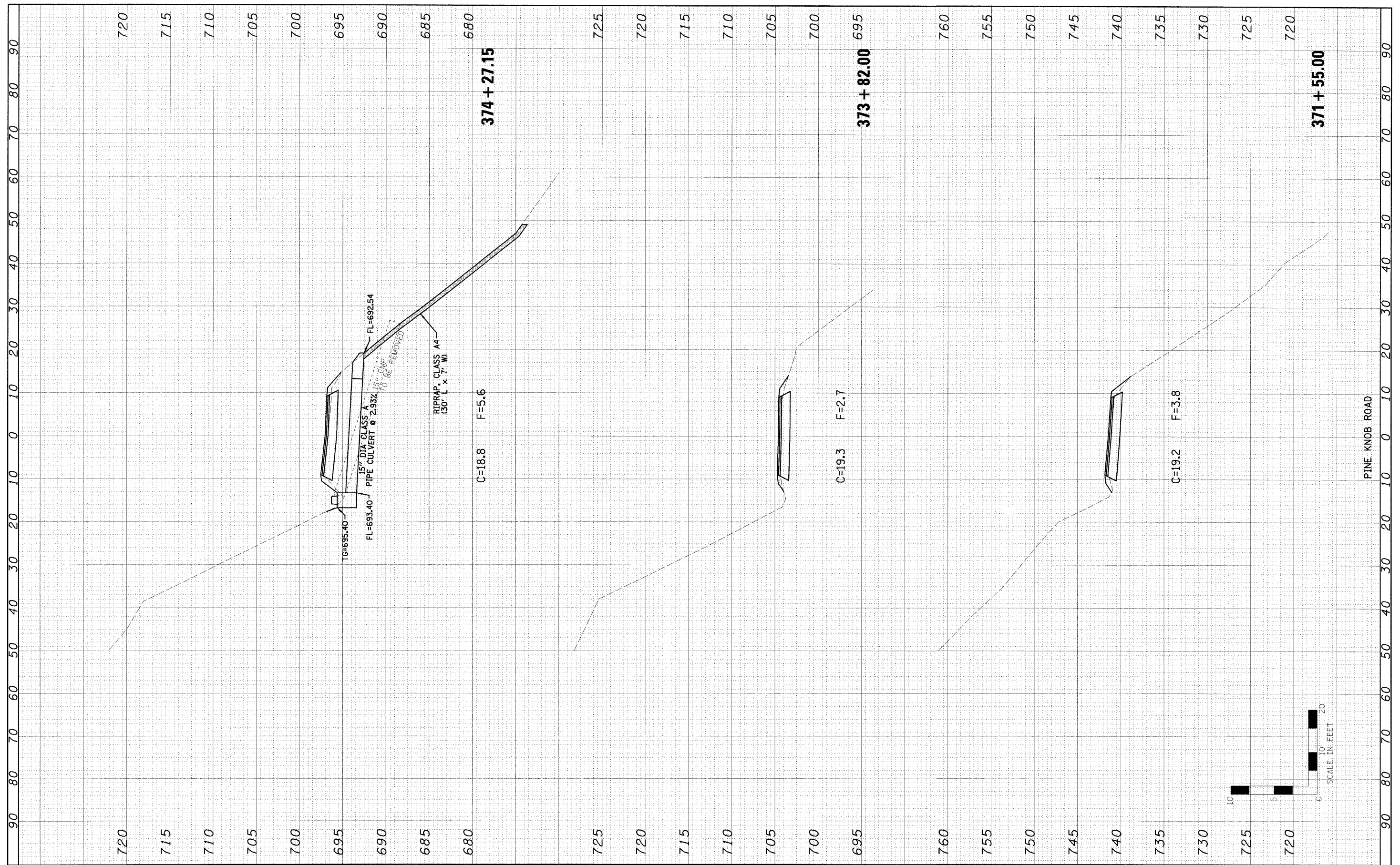
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DESIGNED - LAW	DRAWN - JJO	CHECKED - PJM	REVISOR			SCALE:	SHEET NO. 32 OF 35 SHEETS	STA. 368+65.20 TO STA. 371+09.14	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CARROLL	35
PLOT SCALE = #SCALE#	DATE - 01/27/10	REVISOR	REVISOR					CONTRACT NO.				





FINAL	REVISIONS	BY	DATE
SURVEY	PLOTTED		
NOTE BOOK	TEMPLATE		
AREAS	CHECKED		

ORIGINAL	REVISIONS	BY	DATE
SURVEY	PLOTTED		
NOTE BOOK	TEMPLATE		
AREAS	CHECKED		



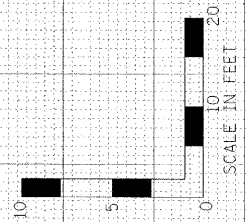
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FILE #		DRAWN - JJO	REVISED					PINE KNOB ROAD	CARROLL	35	33	
PLT SCALE - #SCALE#	CHECKED - PJM	DATE 01/27/10	REVISED	SCALE:		SHEET NO. 33 OF 35 SHEETS		STA. 371+55.00 TO STA. 374+27.15		CONTRACT NO.		
PLT DATE - #DATE#								FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

FINAL SURVEY	DATE
REVISIONS	BY
NO. DATE	
NOTE BOOK	
AREAS CHECKED	
AREAS CHECKED	

ORIGINAL SURVEY	DATE
REVISIONS	BY
NO. DATE	
NOTE BOOK	
AREAS CHECKED	
AREAS CHECKED	

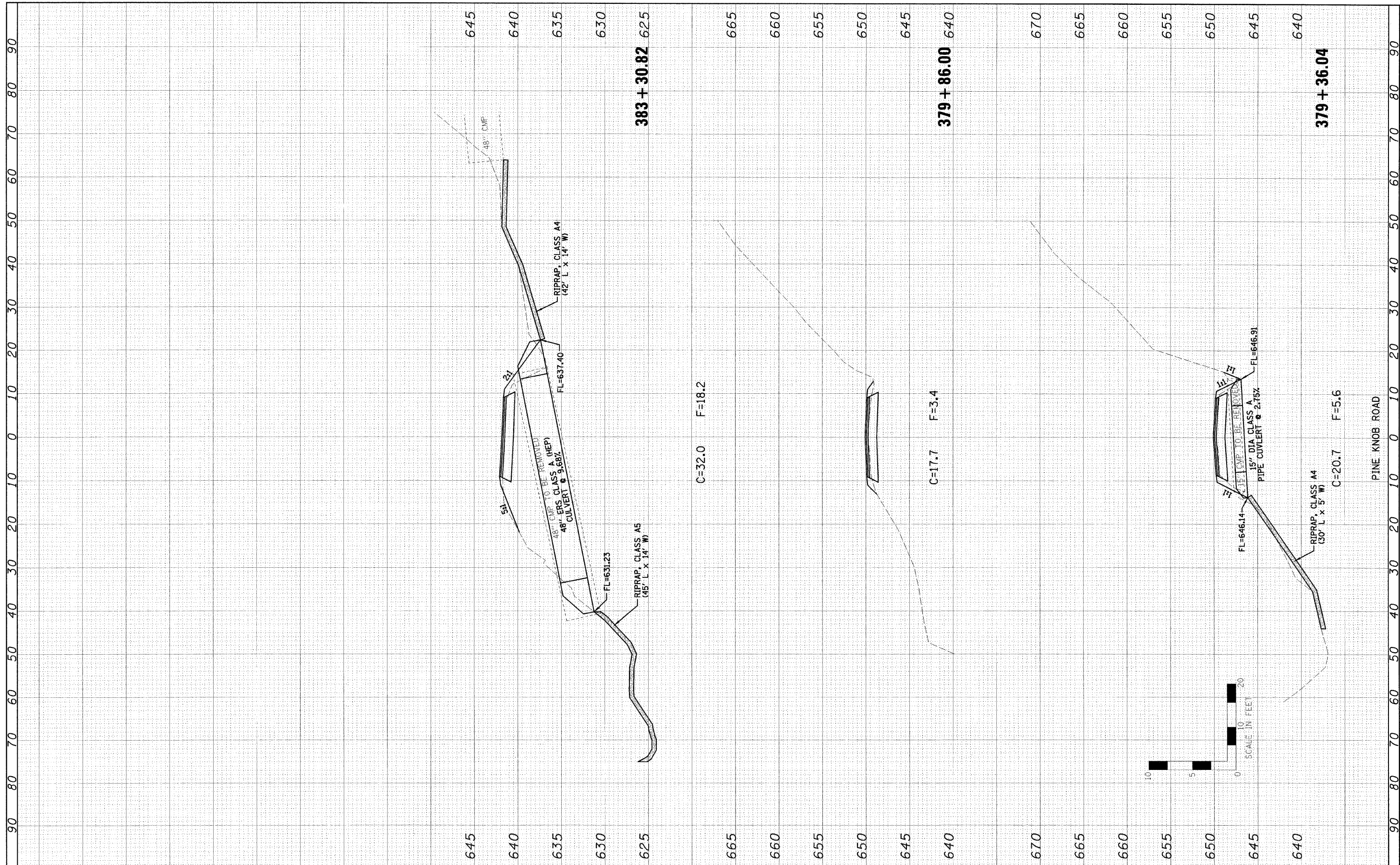


FILE NAME =	USER NAME = USER#	DESIGNED - LAW	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>PINE KNOB ROAD</b> <b>CROSS SECTIONS</b>		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILEL#	PLOT SCALE = #SCALE#	DRAWN - JJO	REVISED -		SCALE:	SHEET NO. 34 OF 35 SHEETS	STA. 374+77.00 TO STA. 378+86.00	PINE KNOB ROAD	CARROLL	35	34
	DATE = #DATE#	CHECKED - PJM	REVISED -								
		DATE - 01/27/10	REVISED -								
							CONTRACT NO.		ILLINOIS FED. AID PROJECT		



FINAL SURVEY	REVISIONS	DATE
NOTE BOOK	PLATE	
AREAS CHECKED		

ORIGINAL SURVEY	REVISIONS	DATE
NOTE BOOK	PLATE	
AREAS CHECKED		



FILE NAME	USER NAME = #USER#	DESIGNED - LAW	REVISIONS	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PINE KNOB ROAD CROSS SECTIONS</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#	PLOT SCALE = #SCALE#	DRAWN - JJO	REVISIONS			PINE KNOB ROAD	CARROLL	35	35	
	PLOT DATE = #DATE#	CHECKED - PJM	REVISIONS			<b>CONTRACT NO.</b>				
		DATE - 01/27/10	REVISIONS			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			