

**DESIGN DESIGNATION**


A.D.T. - 2007 = 540  
 A.D.T. - 2027 = 750  
 D.H.V. = 9%  
 T = 11%  
 V = 40 M.P.H.

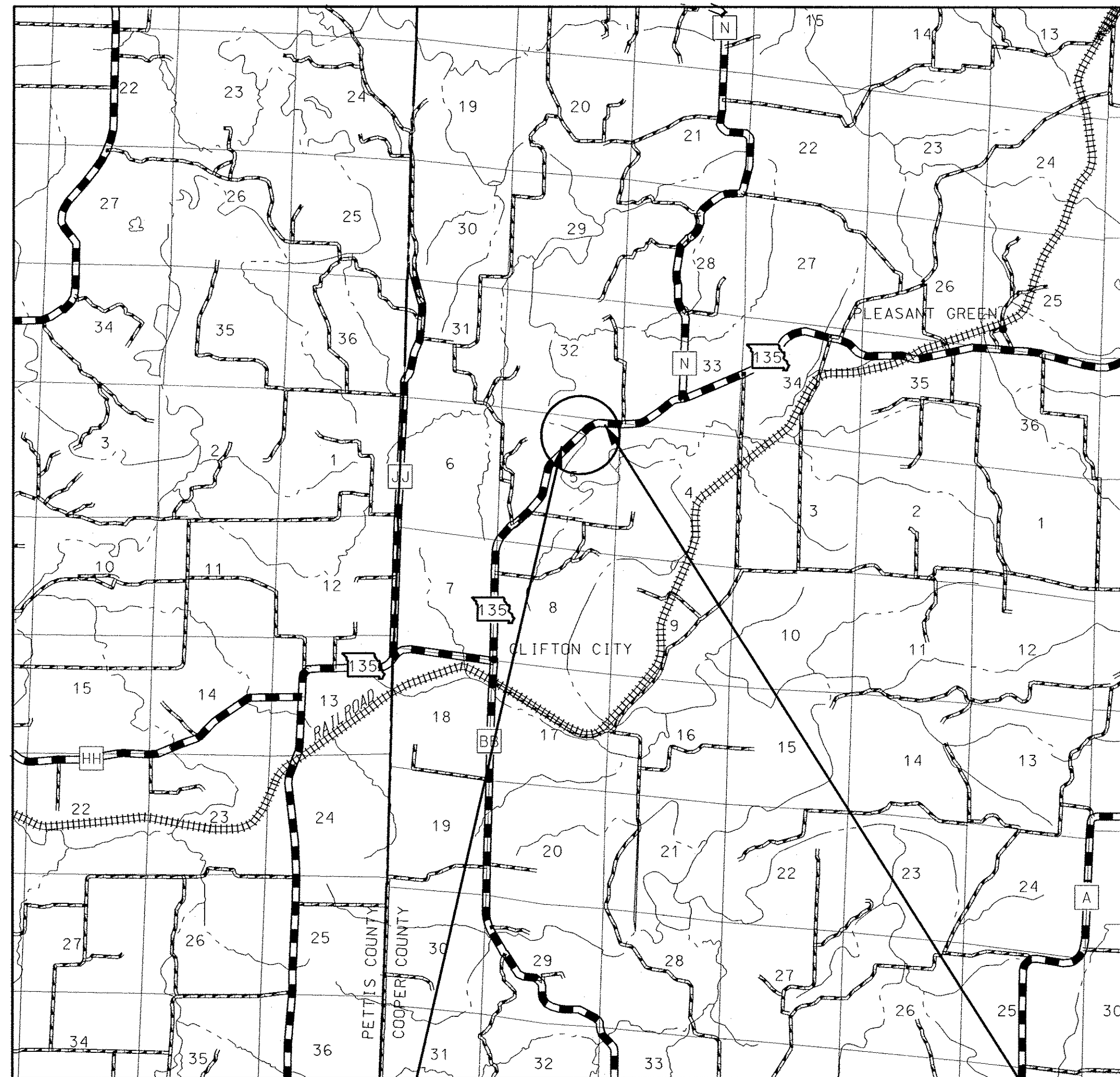
FUNCTIONAL CLASSIFICATION- COLLECTOR

NORMAL RIGHT OF WAY

# MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

## PLANS FOR PROPOSED STATE HIGHWAY COOPER COUNTY T 46N R 19W CONSTRUCTION PLANS

  
 NOT TO SCALE



STA. 542+60.00

STA. 516+50.00

BRIDGE REPLACEMENT  
GRADING, DRAINAGE,  
PAVING, & BRIDGE

**CONVENTIONAL SYMBOLS  
(USED IN PLANS)**

	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
FIBER OPTICS		
OVERHEAD TELEPHONE		
UNDERGROUND TELEPHONE		
OVERHEAD POWER		
UNDERGROUND POWER		
GAS		
WATER		
MANHOLE		
FIRE HYDRANT		
WATER VALVE		
WATER METER		
DROP INLET		
DITCH BLOCK		
GROUND MOUNTED SIGN		
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL		
FENCE		
CHAIN LINK		
WOVEN WIRE		
GATE POST		
BENCHMARK		

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

ROUTE 135	STATE MO	DISTRICT 5	SHEET NO. 1
JOB NO. J5S0516			
CONTRACT ID.			
PROJECT NO.			
COUNTY COOPER			
DATE 6/21/07			



**INDEX OF SHEETS**

DESCRIPTION	SHEET NUMBER
TITLE SHEET -----	1
TYPICAL SECTIONS (TS) (1 SHEET)---	2
QUANTITIES (QU) (4 SHEETS)-----	3
PLAN-PROFILE (PP)-----	4-5
REFERENCE POINTS (RP)-----	6
COORDINATE POINTS (CP)-----	6
SPECIAL SHEETS (SS)-----	7-9
TRAFFIC CONTROL SHEETS (TC)-----	10-11
EROSION CONTROL SHEETS (EC)-----	12
PAVEMENT MARKING (PM)-----	13
CULVERT SECTIONS (CS)-----	14
BRIDGE DRAWINGS (B)	
A7228-----	01-32
CROSS SECTIONS (XS)-----	01-08

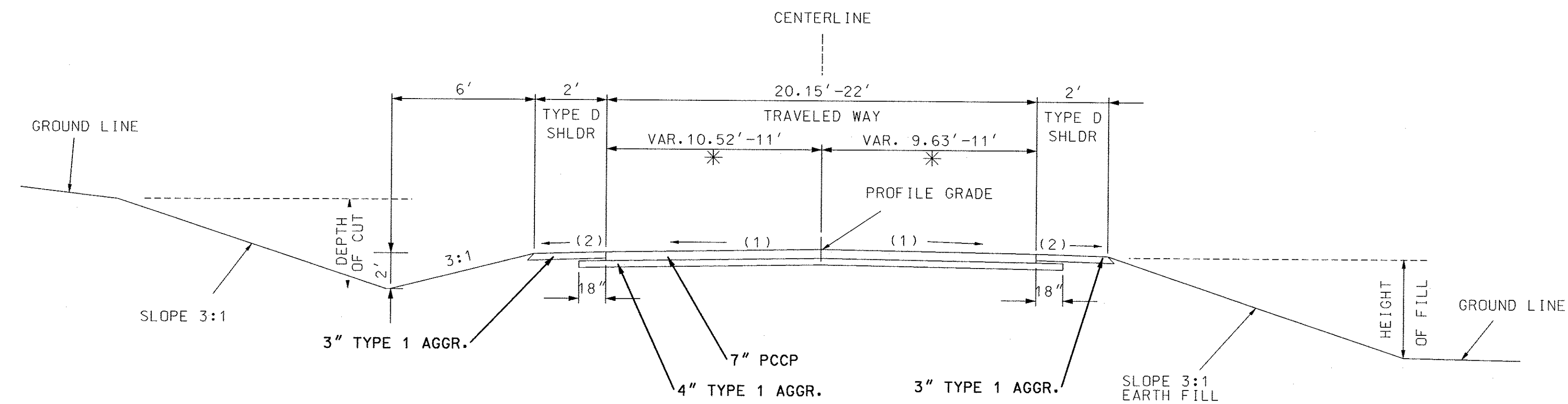
**LENGTH OF PROJECT**

BEGINNING OF PROJECT	STA. 516 + 50.00
END OF PROJECT	STA. 542 + 60.00
APPARENT LENGTH	2610.00 FEET
EQUATIONS AND EXCEPTIONS:	
STA. 520 + 09.80 Bk. = Sta. 519 + 95.62 Ah.	
TOTAL CORRECTIONS	+14.18 FEET
NET LENGTH OF PROJECT	2624.18 FEET
STATE LENGTH	0.497 MILES

Contract I.D. 070831-503

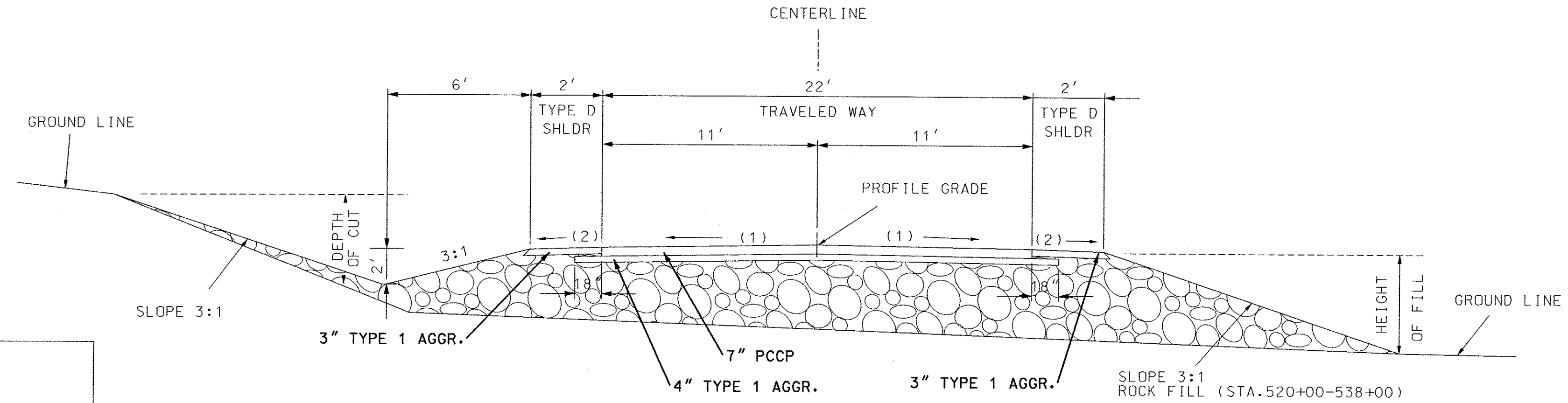
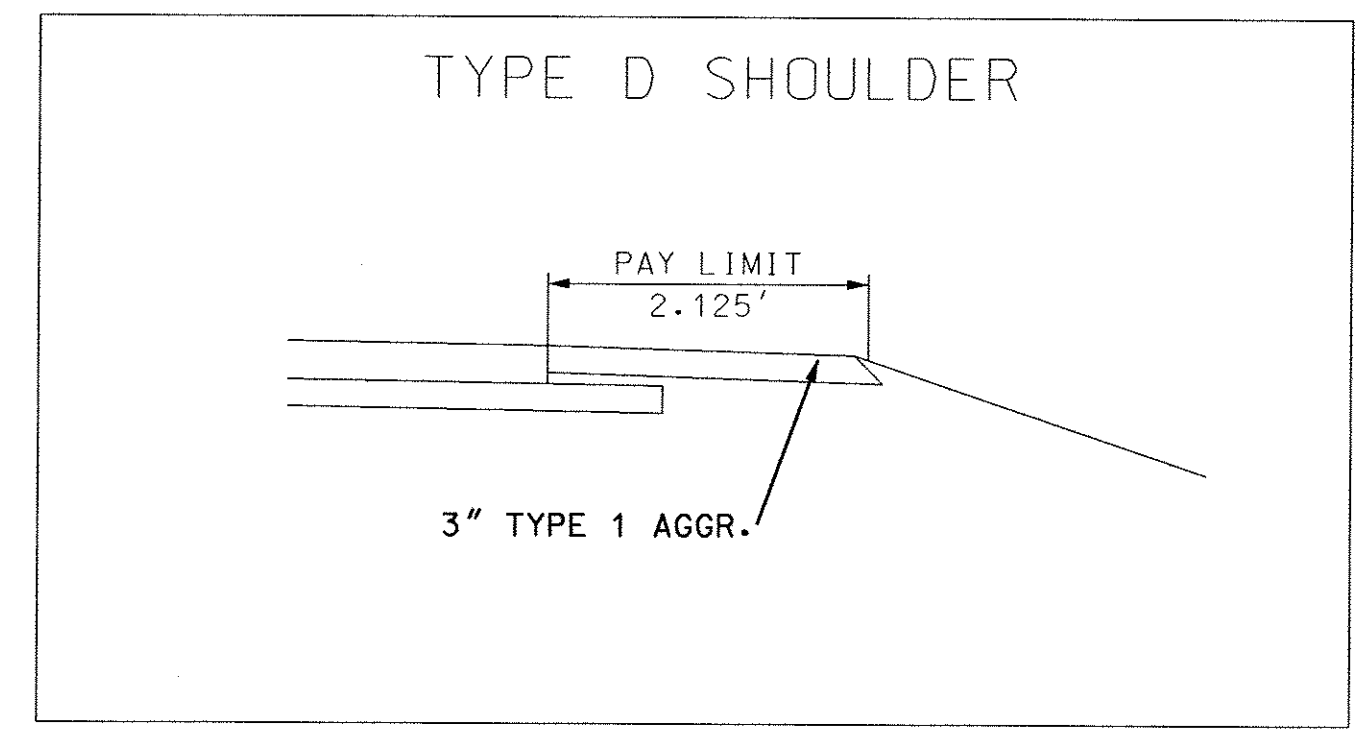
EFFECTIVE 07-01-2002

ROUTE 135	STATE MO	DISTRICT 5	SHEET NO. 2
JOB NO. J5S0516			
CONTRACT ID.			
PROJECT NO.			
COUNTY COOPER			
DATE			



- CROSS SLOPE
- (1) 2.0%
  - (2) 2.0%
  - (3) S.E. SLOPE IF GREATER THAN 2.0%

SECTION ON TANGENT  
TYPICAL SECTION RTE. 135  
STA. 516+50.00 TO STA. 516+77.35  
STA. 542+35.60 TO STA. 542+60.00  
\*SEE SH.9 FOR PVMT.TRANSITION DETAILS



SECTION ON TANGENT  
TYPICAL SECTION RTE. 135  
STA. 516+77.35 TO STA. 542+35.60  
\*\* SEE NOTE FOR ROCK FILL LIMITS

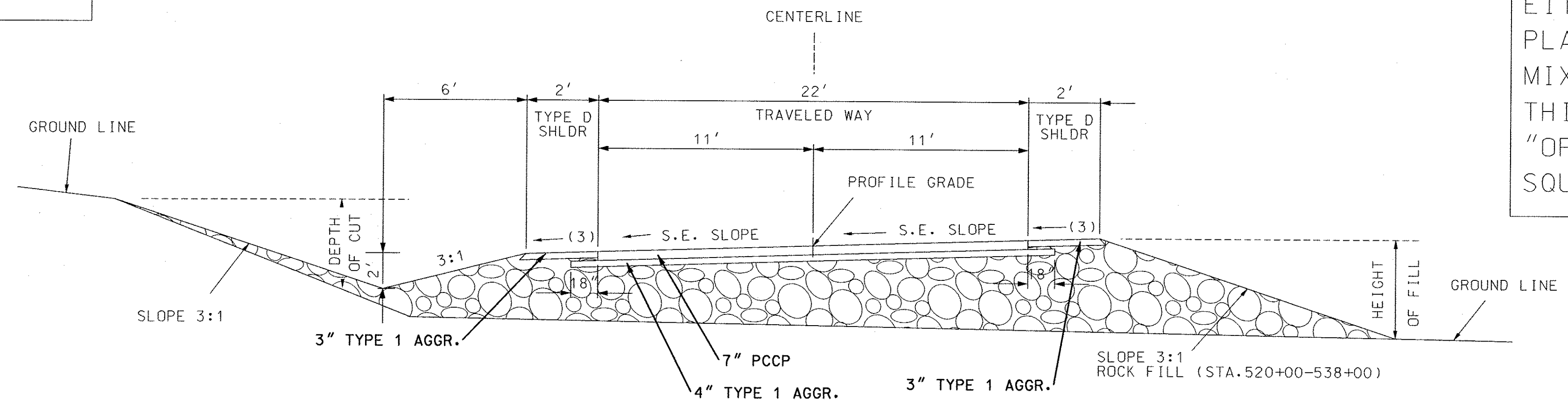
\*\* NOTE:

EARTH FILL LIMITS  
STA. 516+77.35 TO STA. 520+00.00  
STA. 538+00.00 TO STA. 542+35.60

ROCK FILL LIMITS  
STA. 520+00.00 TO STA. 538+00.00

OPTIONAL PAVEMENT NOTE:

CONTRACTOR HAS OPTION TO SUBSTITUTE EITHER 7" COLD MIX ASPHALT OR 1 3/4" PLANT MIX PAVEMENT OVER 5 1/4" PLANT MIX BITUMINOUS BASE FOR THE 7" PCCP. THIS PAVEMENT WILL BE PAID FOR AS "OPTIONAL PAVEMENT 7 IN. THICK", SQUARE YARD.



SECTION ON SUPERELEVATED CURVE  
TYPICAL SECTION RTE. 135  
STA. 516+77.35 TO STA. 542+35.60  
\*\* SEE NOTE FOR ROCK FILL LIMITS

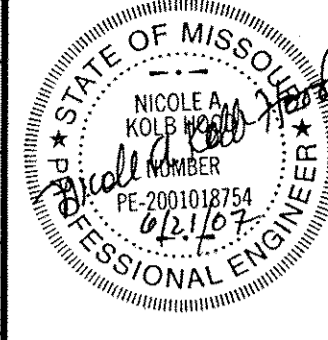
OPTIONAL PAVEMENT

TYPICAL SECTION  
SHEET 1 OF 1  
ROUTE 135

# MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

## SUMMARY OF QUANTITIES

REV. SEPT. 8, 97

ROUTE <b>135</b>	STATE <b>MO</b>	DISTRICT <b>5</b>	SHEET NO. <b>3</b>	
JOB NO. <b>J5S0516</b>				
CONTRACT ID.				
PROJECT NO.				
COUNTY <b>COOPER</b>			DATE	

CLEARING AND GRUBBING		
SHEET NO.	AREA ACRE	REMARKS
4	0.5	
5	0.5	
TOTAL	1.0	
USE	1.0	

REMOVAL OF IMPROVEMENTS						
STATION	TO STATION	OFFSET	DESCRIPTION	LENGTH (FT.)	AREA (SF)	REMARKS
516+50	521+65	CL	EXIST. ASPHALT PAVEMENT	515	9755.5	INCLUDES 20.3 LF SAW CUTS
524+79	542+60	CL	EXIST. ASPHALT PAVEMENT	1781	34753.9	INCLUDES 20.3 LF SAW CUTS
516+00	520+25	35' LT	FENCE	425'		PARCEL #1
524+67	539+96.40	40' LT	FENCE	1530'		PARCEL #2
526+96	536+50	40' RT	FENCE	954'		PARCEL #2
521+23		11' LT	GRAVEL ENTRANCE	76'		REMOVE ENTRANCE
537+00		16' LT	15" CMP	27'		REMOVE PIPE
TOTAL				1 LUMP SUM		

EARTHWORK								
STATION	TO STATION	LOCATION	CLASS A EXCAVATION CU. YD.	COMPACTING EMBANKMENT CU. YD.	FURNISHING ROCK FILL CU. YD.	PLACING ROCK FILL CU. YD.	FOR INFORMATION ONLY CLASS A EXCESS CU. YD. **	REMARKS
516+50	520+00 BK	RTE 135	247	213			8.4	EARTH FILL
520+00 BK	521+55.71	RTE 135	135		463.0	463.0	135.0	ROCK FILL
521+55.71		RTE 135			360.0	360.0		SPILLFILL
524+69.95		RTE 135			700.0	700.0		SPILLFILL
524+69.95	537+00	RTE 135	6288		18913.0	18913.0		ROCK FILL
537+00	542+60	RTE 135	216	269				EARTH FILL
521+98.40		RTE 135			480.0	480.0		NORTH WORK PAD
524+47.98		RTE 135			1313.0	1313.0		SOUTH WORK PAD
529+67.00		RTE 135		1428				ENTRANCE ADD YARDAGE
536+99.50		RTE 135		32				ENTRANCE ADD YARDAGE
524+69.95	542+60.00	RTE 135					4567.5	
TOTAL			6886	1942	22229	22229		NOTE: NO DIRECT PAY FOR OVERHAUL ** DISPOSE OF 4711 CY EXCESS CL. A OFF OF PROJECT

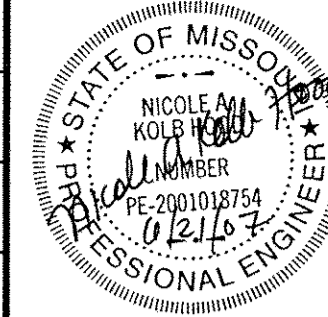
TYPE 1 AGGREGATE (3" THICK)						
STATION	STATION	LOCATION	LENGTH FT.	WIDTH FT.	SQ. YD.	REMARKS
516+50.00	519+68.46	RTE 135 SHOULDER LT.	318.46	2.125	75.19	
519+68.46	520+05.53	RTE. 135 SHOULDER LT.	51.25	2.125 TO 5.542	21.83	INCL. 14.19' EQUATION
520+05.53	521+48.99	RTE. 135 SHOULDER LT.	143.46	5.425	86.47	WIDENING FOR GUARDRAIL
516+50.00	519+55.60	RTE. 135 SHOULDER RT.	305.6	2.125	72.16	
519+55.60	520+06.85	RTE. 135 SHOULDER RT.	51.25	2.125 TO 5.542	21.83	WIDENING FOR GUARDRAIL
520+06.85	521+62.42	RTE. 135 SHOULDER RT.	169.76	5.542	104.53	INCL. 14.19' EQUATION
524+63.27	526+71.67	RTE. 135 SHOULDER LT.	208.40	5.542	128.33	WIDENING FOR GUARDRAIL
526+71.67	527+22.92	RTE. 135 SHOULDER LT.	51.25	5.542 TO 2.125	21.83	
527+22.92	542+60.00	RTE. 135 SHOULDER LT.	1537.08	2.125	362.92	
524+76.63	526+46.32	RTE. 135 SHOULDER RT.	169.69	5.542	104.49	WIDENING FOR GUARDRAIL
526+46.32	526+97.57	RTE. 135 SHOULDER RT.	51.25	5.542 TO 2.125	21.83	
526+97.57	542+60.00	RTE. 135 SHOULDER RT.	1562.43	2.125	368.91	
TOTAL					1390.32	
USE					1390.3	

TYPE 1 AGGR. FOR BASE (4" THICK)						
STATION	TO STATION	LOCATION	LENGTH FT.	WIDTH FT.	AREA SQ. YD.	REMARKS
516+50.00	516+77.35	RTE. 135	27.35	VAR.	73.76	BEGIN JOB TO BEGIN FULL WIDTH
516+77.35	520+70.05	RTE. 135	406.88	25	1130.22	FULL WIDTH TO TAPER AREA NORTH OF BRIDGE
520+70.05	521+61.77	RTE. 135	91.72	VAR.	267.66	TAPER AREA NORTH OF BRIDGE
524+63.89	525+57.80	RTE. 135	93.91	VAR.	273.71	TAPER AREA SOUTH OF BRIDGE
525+57.80	542+35.60	RTE. 135	1677.80	25	4660.56	TAPER AREA SOUTH OF BRIDGE TO END FULL WIDTH
542+35.60	542+60.00	RTE. 135	24.40	VAR.	65.71	END FULL WIDTH TO END OF JOB
TOTAL					6471.62	
USE					6472	

SUMMARY SHEET  
SHEET 1 OF 4

# MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

## SUMMARY OF QUANTITIES

ROUTE <b>135</b>	STATE <b>MO</b>	DISTRICT <b>5</b>	SHEET NO. <b>3</b>	
JOB NO. <b>J5S0516</b>				
CONTRACT ID.				
PROJECT NO.				
COUNTY <b>COOPER</b>				DATE _____

OPTIONAL PAVEMENT, 7 INCHES THICK						
STATION	TO STATION	LOCATION	LENGTH FT.	WIDTH FT.	AREA SQ. YD.	REMARKS
516+50.00	516+77.35	RTE. 135	27.35	VAR.	64.52	BEGIN JOB TO BEGIN FULL WIDTH
516+77.35	520+70.05	RTE. 135	406.88	22	994.60	FULL WIDTH TO TAPER AREA NORTH OF BRIDGE
520+70.05	521+61.77	RTE. 135	91.72	VAR.	239.08	TAPER AREA NORTH OF BRIDGE
524+63.89	525+57.80	RTE. 135	93.91	VAR.	240.17	TAPER AREA SOUTH OF BRIDGE
525+57.80	542+35.60	RTE. 135	1677.80	22	4101.29	TAPER AREA SOUTH OF BRIDGE TO END FULL WIDTH
542+35.60	542+60.00	RTE. 135	24.40	VAR.	57.58	END FULL WIDTH TO END OF JOB
					TOTAL	5697.23
					USE	5697.2

GUARDRAIL ITEMS							
STATION	TO STATION	LOCATION	GUARDRAIL TYPE A 7' POSTS LF	TYPE A CRASHWORTHY END TERMINAL EACH	BRIDGE ANCHOR SECTION 7 FT. POSTS (SAFETY BARRIER CURB) EACH	TRANSITION SECTION 7 FT. POSTS EACH	REMARKS
520+66.50	521+16.50	RTE 135 LT.	50	1	1	1	
520+53.62	521+28.62	RTE 135 RT.	75	1	1	1	
524+97.03	526+09.53	RTE 135 LT.	112.5	1	1	1	
525+09.16	525+84.16	RTE 135 RT.	75	1	1	1	
TOTAL			312.5	4	4	4	
USE			313	4	4	4	

ROCK DITCH LINER								
STATION	TO STATION	LOCATION	DITCH WIDTH FT.	LENGTH FT.	DITCH DEPTH FT.	THICKNESS FT.	FURNISHING TYPE I ROCK DITCH LINER CU. YD.	PLACING TYPE 1 ROCK DITCH LINER CU. YD.
520+00.00	520+50.00	RTE. 135 LT. DITCH	V TO 4'	50'	2'	.67'	17.37	17.37
520+50.00	522+48.90	RTE. 135 LT. DITCH	4'	197'	2'	.67'	78.22	78.22
534+00.00	533+00.00	RTE. 135 RT. DITCH	4'	100.00	2'	.67'	39.70	39.70
533+00.00	530+42.90	RTE. 135 RT. DITCH	4'	257.10	2'	1.6'	243.77	243.77
528+90.36		RTE. 135 PIPE OUTLET RT.	4'	16'	2'	1'	9.48	9.48
536+75.00		RTE. 135 PIPE OUTLET LT.	V-DITCH	12'	2'	1'	5.33	5.33
TOTALS							393.87	393.87
USE							394	394


ROCK BLANKET & GEOTEXTILE				
STATION	FURNISHING TYPE 2 ROCK BLANKET CU. YD.	PLACING TYPE 2 ROCK BLANKET CU. YD.	PERMANENT EROSION CONTROL GEOTEXTILE SQ. YD.	REMARK
521+56.26	254.3	254.3	381.5	NORTH SPILLFILL
524+70.62	488.2	488.2	732.3	SOUTH SPILLFILL
TOTALS	742.5	742.5	1113.8	
USE	743	743	1114	

MOBILIZATION	
LOCATION	QUANTITY
RTE. 135	1 LUMP SUM
TOTAL	1 LUMP SUM

SUMMARY SHEET  
SHEET 2 OF 4

# MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

## SUMMARY OF QUANTITIES

ROUTE 135	STATE MO	DISTRICT 5	SHEET NO. 3	
JOB NO. J5S0516				
CONTRACT ID.				
PROJECT NO.				
COUNTY COOPER			DATE 7/23/2007	

PERMANENT PAVEMENT MARKING						
STATION	LOCATION	STATION	LOCATION	WATERBORNE PAVEMENT MARKING PAINT		REMARKS
				4 INCH YELLOW LIN. FT.	4 INCH WHITE LIN. FT.	
516+50.00	0.58' LT.	516+61.59	0' LT.	23.18		DOUBLE YELLOW CENTERLINE
516+61.59	0' LT.	542+45.65	0' LT.	5168.12		DOUBLE YELLOW CENTERLINE
542+45.65	0' LT.	542+60.00	0.72' LT.	28.70		DOUBLE YELLOW CENTERLINE
516+50.00	10.65' LT.	516+57.10	11' LT.		7.10	LT. EDGELINE
516+57.10	11' LT.	542+50.40	11' LT.		2593.30	LT. EDGELINE
542+50.40	11' LT.	542+60.00	10.52' LT.		9.60	LT. EDGELINE
516+50.00	9.63' RT.	516+77.35	11' RT.		27.35	RT. EDGELINE
516+77.35	11' RT.	542+35.60	11' RT.		2558.25	RT. EDGELINE
542+35.60	11' RT.	542+60.00	9.78' RT.		24.40	RT. EDGELINE
<b>TOTALS</b>				5220.00	5220.00	
<b>USE</b>				5220.00	5220.00	

SEEDING & MULCHING					
STATION	STATION	LOCATION	SEEDING - WARM SEASON MIXTURE ACRE	SEEDING - COOL SEASON MIXTURE ACRE	MULCH (NO DIRECT PAY) ACRE
516+50.00	520+00.00	RTE. 135 LT.	0.127	0.127	0.127
516+50.00	520+00.00	RTE. 135 RT.	0.078	0.078	0.078
520+00.00	521+55.71	RTE. 135 LT.	0.039	0.039	0.039
524+69.95	537+00.00	RTE. 135 LT.	0.603	0.603	0.603
524+69.95	537+00.00	RTE. 135 RT.	0.957	0.957	0.957
537+00.00	542+60.00	RTE. 135 LT.	0.102	0.102	0.102
537+00.00	542+60.00	RTE. 135 RT.	0.095	0.095	0.095
<b>TOTAL</b>			2.001	2.001	2.001
<b>USE</b>			2.0	2.0	2.0

ENTRANCE PAVED APPROACHS & BITUMINOUS PAVEMENT, ENTRANCE & SIDE ROAD CULVERT PIPES															
SHEET NO.	STRUCT. LABEL	STATION	LOCATION	GRADE	TYPE	WIDTH FT.	LENGTH FT.	GRAVEL OR CRUSHED STONE SQ. YD.	GROUP B PIPE 18" LIN. FT.	BEVELED PIPE END TREATMENT 18" EACH	GROUP B PIPE 30" LIN. FT.	SAFETY SLOPE END SECTION 30" EACH	CLASS 3 EXCAVATION CY	ADD YARDAGES*	
														CUT CY	FILL CY
5	P3	529+67.00	RTE 135 RT.	-9.0%	FE	16	92	174.7			128.0	2.0	173.0		1428
5	P4	536+99.5	RTE 135 LT.	-7.4%	FE	12	27	47.1	20.0	2.0			10.0		32
<b>TOTALS</b>								221.8	20.0	2.0	128.0	2.0	183.0	*FOR INFORMATIONAL PURPOSES ONLY	
<b>USE</b>								222	20	2	128	2	183		

TEMPORARY SEEDING & MULCHING			
STATION	TO STATION	LOCATION	TEMPORARY SEEDING AND MULCHING ACRE
516+50.00	520+00.00	RTE. 135 LT.	0.032
516+50.00	520+00.00	RTE. 135 RT.	0.02
520+00.00	521+55.71	RTE. 135 LT.	0.01
524+69.95	537+00.00	RTE. 135 LT.	0.151
524+69.95	537+00.00	RTE. 135 RT.	0.239
537+00.00	542+60.00	RTE. 135 LT.	0.026
537+00.00	542+60.00	RTE. 135 RT.	0.024
<b>TOTAL</b>			0.502
<b>USE</b>			0.5

TEMPORARY EROSION CONTROL							
STATION	TO STATION	LOCATION	SPACING	TYPE II DITCH CHECK EACH	TYPE C BERM LF	SILT FENCE LF	SEDIMENT REMOVAL CY
517+00	520+00	RTE. 135 LT.	300	2			2
520+00	521+00	RTE. 135 LT.	50	2			2
521+00	522+14	RTE. 135 LT.	38	3			3
542+00	540+80	RTE. 135 LT.	60	3			3
540+80	539+30	RTE. 135 LT.	75	2			2
539+30	537+30	RTE. 135 LT.	100	2			2
537+30	535+80	RTE. 135 LT.	150	1			1
535+80	535+00	RTE. 135 LT.	80	1			1
535+00	532+75	RTE. 135 LT.	75	3			3
532+75	531+75	RTE. 135 LT.	100	1			1
531+75	525+75	RTE. 135 LT.	300	2			2
525+75	523+75	RTE. 135 LT.	200	1			1
542+00	541+25	RTE. 135 RT.	75	1			1
541+25	539+75	RTE. 135 RT.	50	3			3
539+75	535+25	RTE. 135 RT.	150	3			3
535+25	534+25	RTE. 135 RT.	100	1			1
534+25	532+73	RTE. 135 RT.	38	4			4
532+73	526+73	RTE. 135 RT.	300	2			2
526+73	524+25	RTE. 135 RT.	248	1		655	1
516+50	522+74	RTE. 135 RT.			85		7
522+54		RTE. 135 LT./RT.			137		
523+87		RTE. 135 LT./RT.					
<b>TOTALS</b>				38	222	655	45

SUMMARY SHEET  
SHEET 3 OF 4

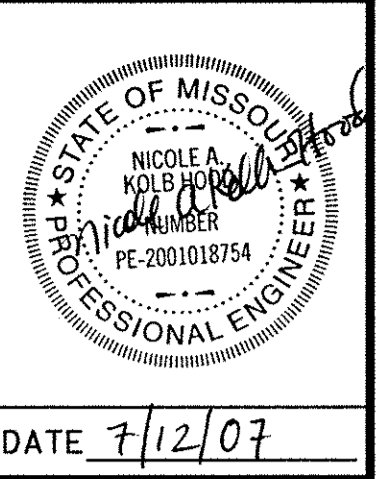
# SUMMARY OF QUANTITIES

EFFECTIVE: 04-01-2006

D-2BS

2B SHEET 4 OF 4

ROUTE <b>135</b>	STATE <b>MO</b>	DISTRICT <b>5</b>	SHEET NO. <b>3</b>
JOB NO. <b>J5S0516</b>			
CONTRACT ID.			
PROJECT NO.			
COUNTY <b>COOPER</b>			



SIGN	SIZE (IN.)	AREA (SQ. FT.)	QTY	TOTAL AREA	QTY RELOC	TOTAL RELOC AREA	DESCRIPTION
<b>WARNING SIGNS</b>							
W01-1L	48X48	16.00					TURN (SYMBOL LEFT ARROW)
W01-1R	48X48	16.00					TURN (SYMBOL RIGHT ARROW)
W01-2L	48X48	16.00					CURVE (SYMBOL LEFT ARROW)
W01-2R	48X48	16.00					CURVE (SYMBOL RIGHT ARROW)
W01-3L	48X48	16.00					REVERSE TURN (SYMBOL LEFT ARROW)
W01-3R	48X48	16.00					REVERSE TURN (SYMBOL RIGHT ARROW)
W01-4L	48X48	16.00					REVERSE CURVE (SYMBOL LEFT ARROW)
W01-4R	48X48	16.00					REVERSE CURVE (SYMBOL RIGHT ARROW)
W01-4bL	48X48	16.00					DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT ARROWS)
W01-4bR	48X48	16.00					DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT ARROWS)
W01-4cL	48X48	16.00					TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT ARROWS)
W01-4cR	48X48	16.00					TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT ARROWS)
W01-6	48X24	8.00					HORIZONTAL ARROW (SYMBOL)
W01-6a	72X36	18.00					HORIZONTAL ARROW (SYMBOL ON BARRICADE)
W01-7	48X24	8.00					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
W01-7a	72X36	18.00					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL ON BARRICADE)
W01-8	18X24	3.00					CHEVRON (SYMBOL)
W01-8a	36X48	12.00					CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
W03-1a	48X48	16.00					STOP AHEAD (SYMBOL)
W03-2a	48X48	16.00					YIELD AHEAD (SYMBOL)
W03-3	48X48	16.00					SIGNAL AHEAD (SYMBOL)
W03-4	48X48	16.00					BE PREPARED TO STOP
W04-1L	48X48	16.00					MERGE (SYMBOL FROM LEFT)
W04-1R	48X48	16.00					MERGE (SYMBOL FROM RIGHT)
W05-1	48X48	16.00					ROAD/BRIDGE/RAMP NARROWS
W05-3	48X48	16.00					ONE LANE BRIDGE
W05-5	48X48	16.00					NARROW LANES
W06-1	48X48	16.00					DIVIDED HIGHWAY (SYMBOL)
W06-2	48X48	16.00					DIVIDED HIGHWAY END (SYMBOL)
W06-3	48X48	16.00					TWO WAY TRAFFIC (SYMBOL)
W07-3a	24X18	3.00					NEXT XX MILES (PLAQUE)
W08-1	48X48	16.00					BUMP
W08-2	48X48	16.00					DIP
W08-3	48X48	16.00					PAVEMENT ENDS
W08-4	48X48	16.00					SOFT SHOULDER
W08-5	48X48	16.00					SLIPPERY WHEN WET (SYMBOL)
W08-6	48X48	16.00					TRUCK CROSSING
W08-6c	48X48	16.00					TRUCK ENTRANCE
W08-7	36X36	9.00					LOOSE GRAVEL
W08-9	48X48	16.00					LOW SHOULDER
W08-9a	48X48	16.00					SHOULDER DROP-OFF
W08-11	48X48	16.00					UNEVEN LANES
W08-12	36X36	9.00					NO CENTER STRIPE
W10-1	42 RND.	9.62					RAILROAD CROSSING
W012-1	24X24	4.00					DOUBLE DOWN ARROW (SYMBOL)
W012-2	48X48	16.00					LOW CLEARANCE (SYMBOL)
W012-2x	24X18	3.00					LOW CLEARANCE (PLAQUE)
W012-3a,b	144X24	24.00					OVERHEAD LOW CLEARANCE (FEET AND INCHES)
SPECIAL	120X60	50.00					LOW CLEARANCE XX FT XX IN XX MILES AHEAD
SPECIAL	120X60	50.00					WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
W013-1	24X24	4.00					ADVISORY SPEED (PLAQUE)
W016-2a	24X18	3.00					500 FEET/1000 FEET (PLAQUE)
W020-1	48X48	16.00					ROAD/BRIDGE/RAMP WORK AHEAD
W020-2	48X48	16.00	2	32.00			DETOUR AHEAD
W020-3	48X48	16.00	4	64.00			ROAD CLOSED AHEAD
W020-4	48X48	16.00					ONE LANE ROAD AHEAD
W020-5	48X48	16.00					RIGHT/CENTER/LEFT LANE CLOSED AHEAD
W020-5a	48X48	16.00					RIGHT/CENTER/LEFT TWO LANES CLOSED AHEAD
W020-6a	48X48	16.00					RIGHT/CENTER/LEFT LANE CLOSED
W020-7a	48X48	16.00					FLAGGER (SYMBOL)
W021-2	48X48	16.00					FRESH OIL
W021-5b	48X48	16.00					SHOULDER WORK AHEAD
W022-1	48X48	16.00					BLASTING ZONE AHEAD
W022-2	42X36	10.50					TURN OFF 2-WAY RADIO AND PHONE
W022-3	42X36	10.50					END BLASTING ZONE
W022-6e	21X15	2.19					WET PAINT (ARROW PIVOTS)

SIGN	SIZE (IN.)	AREA (SQ. FT.)	QTY	TOTAL AREA	QTY RELOC	TOTAL RELOC AREA	DESCRIPTION	
<b>GUIDE SIGNS</b>								
E05-1	60X48	20.00					GORE EXIT	
G020-1	60X24	10.00					ROAD WORK NEXT XX MILES	
G020-2	48X24	8.00					END ROAD WORK	
G020-4	36X18	4.50					PILOT CAR FOLLOW ME	
G023-1	36X12	3.00					WORK ZONE (PLAQUE)	
M04-1	24X12	2.00					ALTERNATE (PLAQUE)	
M04-8	24X12	2.00	26	52.00			DETOUR (PLAQUE)	
M04-8a	24X18	3.00	2	6.00			END DETOUR	
M04-9L	48X36	12.00					DETOUR (LEFT ARROW)	
M04-9R	48X36	12.00					DETOUR (RIGHT ARROW)	
M04-10L	48X18	6.00	1	6.00			DETOUR (ARROW LEFT)	
M04-10R	48X18	6.00	1	6.00			DETOUR (ARROW RIGHT)	
M5-1L	21X15	2.19	3	6.57			ADVANCE LEFT TURN ARROW	
M5-1R	21X15	2.19	3	6.57			ADVANCE RIGHT TURN ARROW	
M6-1	21X15	2.19	6	13.14			TURN ARROW	
M6-3	21X15	2.19	14	30.66			STRAIGHT ARROW	
<b>REGULATORY SIGNS</b>								
R1-1	48X48	13.25					STOP	
R1-2	48 TRI.	6.93					YIELD	
R1-2a	36X36	9.00					TO ONCOMING TRAFFIC (PLAQUE)	
R1-3	20X9	1.25					4/3-WAY (PLAQUE)	
R2-1	36X48	12.00					SPEED LIMIT XX	
R2-5a	36X48	12.00					REDUCED SPEED AHEAD	
R3-1	48X48	16.00					NO RIGHT TURN (SYMBOL)	
R3-2	48X48	16.00					NO LEFT TURN (SYMBOL)	
R3-3	36X36	9.00					NO TURNS	
R3-4	48X48	16.00					NO U-TURN (SYMBOL)	
R3-7L	30X30	6.25					LEFT LANE MUST TURN LEFT	
R3-7R	30X30	6.25					RIGHT LANE MUST TURN RIGHT	
R4-1	36X48	12.00					DO NOT PASS	
R4-2	36X48	12.00					PASS WITH CARE	
R4-7aL	36X48	12.00					KEEP LEFT (HORIZONTAL ARROW)	
R4-7a	36X48	12.00					KEEP RIGHT (HORIZONTAL ARROW)	
R5-1	30X30	6.25					DO NOT ENTER	
R5-1a	36X24	6.00					WRONG WAY	
R6-1L	48X18	6.00					ONE WAY ARROW (LEFT)	
R6-1R	48X18	6.00					ONE WAY ARROW (RIGHT)	
R6-2L	24X30	5.00					ONE WAY (LEFT)	
R6-2R	24X30	5.00					ONE WAY (RIGHT)	
R10-6	24X36	6.00					STOP HERE ON RED (45° ARROW)	
R11-2	48X30	10.00	2	20.00			ROAD CLOSED	
R11-3a	60X30	12.50	2	25.00			ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY	
R11-4	60X30	12.50					ROAD CLOSED TO THRU TRAFFIC	
S4-4	36X15	3.75					WHEN FLASHING	
CONST-3A	60X48	20.00					FINE SIGN	
CONST-3X	57X9	---					SPEEDING/PASSING (PLATE)	
<b>MISCELLANEOUS SIGNS</b>								
M3-1	24X12	2.0	10	20.00			NORTH (PLAQUE)	
M3-3	24X12	2.0	16	32.00			SOUTH (PLAQUE)	
M1-6	24X24	4.0	26	104.00			STATE ROUTE SHIELD (INDEPENDENT USER) ROUTE 135	
SPECIAL	96X48	32.00	1	32.00			NORTH ROUTE 135 CLOSED XX MILES (1 @ 2.1)	
SPECIAL	96X48	32.00	3	96.00			SOUTH ROUTE 135 CLOSED XX MILES (1 @ 1.0, 1 @ 5.8, 1 @ 5.7)	
				616-10.05			CONSTRUCTION SIGNS TOTAL	551.94
				616-10.10			RELOCATED SIGNS TOTAL	

ITEM NUMBER	TOTAL QTY	DESCRIPTION
612-20.08		IMPACT ATTENUATOR (8 SAND BARRELS)
612-20.09		IMPACT ATTENUATOR (9 SAND BARRELS)
612-20.10		IMPACT ATTENUATOR (10 SAND BARRELS)
612-20.12		IMPACT ATTENUATOR (12 SAND BARRELS)
612-20.14		IMPACT ATTENUATOR (14 SAND BARRELS)
612-20.17		IMPACT ATTENUATOR (17 SAND BARRELS)
612-20.19		IMPACT ATTENUATOR (19 SAND BARRELS)
612-20.20		REPLACEMENT SAND BARREL
612-20.30		IMPACT ATTENUATOR ARRAY (RELOCATION)
612-30.00		TRUCK MOUNTED ATTENUATOR (TMA)
616-10.20		CHANNELIZER (DRUM-LIKE)
616-10.25		CHANNELIZER (TRIM-LINE)
616-10.30	10	TYPE III MOVEABLE BARRICADE
616-10.33		DIRECTION INDICATOR BARRICADE
616-10.34		DIRECTION INDICATOR BARRICADE, WITH LIGHT
616-10.40		FLASHING ARROW PANEL
616-10.47		TYPE III OBJECT MARKER
616-10.51		WARNING LIGHT, TYPE A
616-10.52	6	WARNING LIGHT, TYPE B
616-10.53		WARNING LIGHT, TYPE C
616-10.54		STROBE LIGHT
616-10.70		TUBULAR MARKER
616-10.95		RADAR SPEED ADVISORY SYSTEM
616-10.96		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
616-10.98		CHANGEABLE MESSAGE SIGN, CONTRACTOR FURNISHED/RETAINED
616-11.00		CHANGEABLE MESSAGE SIGN, CONTRACTOR FURNISHED/COMMISSION RETAINED
616-11.20	2	INSTALLING "DRIVE SMART", 48 IN. X 48 IN. SIGN
616-11.33	2	INSTALLING "POINT OF PRESENCE" SIGN
616-12.00		LAW ENFORCEMENT SERVICES
617-36.00C		CONTRACTOR FURNISHED/RETAINED TEMPORARY CONCRETE TRAFFIC BARRIER, TYPE F
617-36.02A		CONTRACTOR FURNISHED/COMMISSION RETAINED TEMPORARY CONCRETE TRAFFIC BARRIER, TYPE F
617-40.00		TEMPORARY CONCRETE BARRIER HEIGHT TRANSITION
617-50.10		RELOCATING TEMPORARY CONCRETE TRAFFIC BARRIER
617-60.00		COMMISSION FURNISHED/RETAINED TEMPORARY CONCRETE TRAFFIC BARRIER, TYPE F
617-70.00		COMMISSION FURNISHED/RETAINED PRECAST BARRIER HEIGHT TRANSITION
620-80.65		TEMPORARY RAISED PAVEMENT MARKER
901-94.00		TEMPORARY LIGHTING
902-94.00		TEMPORARY TRAFFIC SIGNALS
902-94.01		TEMPORARY TRAFFIC SIGNALS AND LIGHTING
902-94.12		SOLAR POWERED PORTABLE TRAFFIC SIGNAL SYSTEM (COMMISSION RETAINED)
902-94.15		RELOCATION OF PORTABLE TRAFFIC SIGNAL SYSTEM

ENTRANCES CONSTRUCTED THROUGH NEW RIGHT OF WAY BETWEEN STATION 516+50.00 AND STATION 542+60.00 MAY BE WIDENED BY PERMIT TO A MAXIMUM WIDTH OF 60 FT. UNLESS OTHERWISE NOTED.

ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.

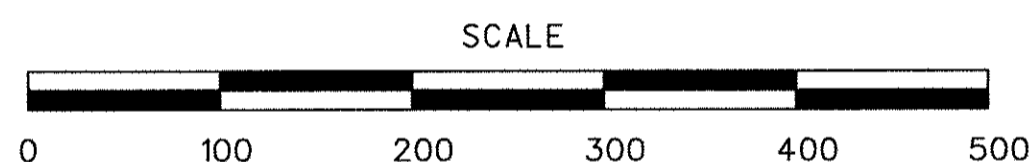
RIGHT OF WAY LIMITS FOR THIS PROJECT EXTEND FROM STATION 516+50.00 TO STATION 542+60.00, A DISTANCE OF 0.497 MILES.

ALL LAND LINES AND PROPERTY LINES ARE ASSUMED TO BE APPROXIMATE UNLESS OTHERWISE NOTED.

ALL BEARINGS BASED ON STATE PLANE 1983 BEARINGS CENTRAL ZONE.

UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEY AND RECORDS. THE COMMISSION DOES NOT WARRANT THE LOCATIONS OF THESE FACILITIES AS PRECISE. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXISTENCE AND PRECISE LOCATION OF ALL FACILITIES AND TO AVOID DAMAGE. SEE THE JOB SPECIAL PROVISIONS FOR A LIST OF UTILITY COMPANIES ON OR WITHIN THE VICINITY OF THE PROJECT LIMITS.

STATION 516+50.00  
FEDERAL IMPROVEMENT BEGINS  
AT A POINT APPROX. 4219.091' EAST  
AND 5193.931' NORTH OF THE SW CORNER  
OF SECTION 5 T46N R19W



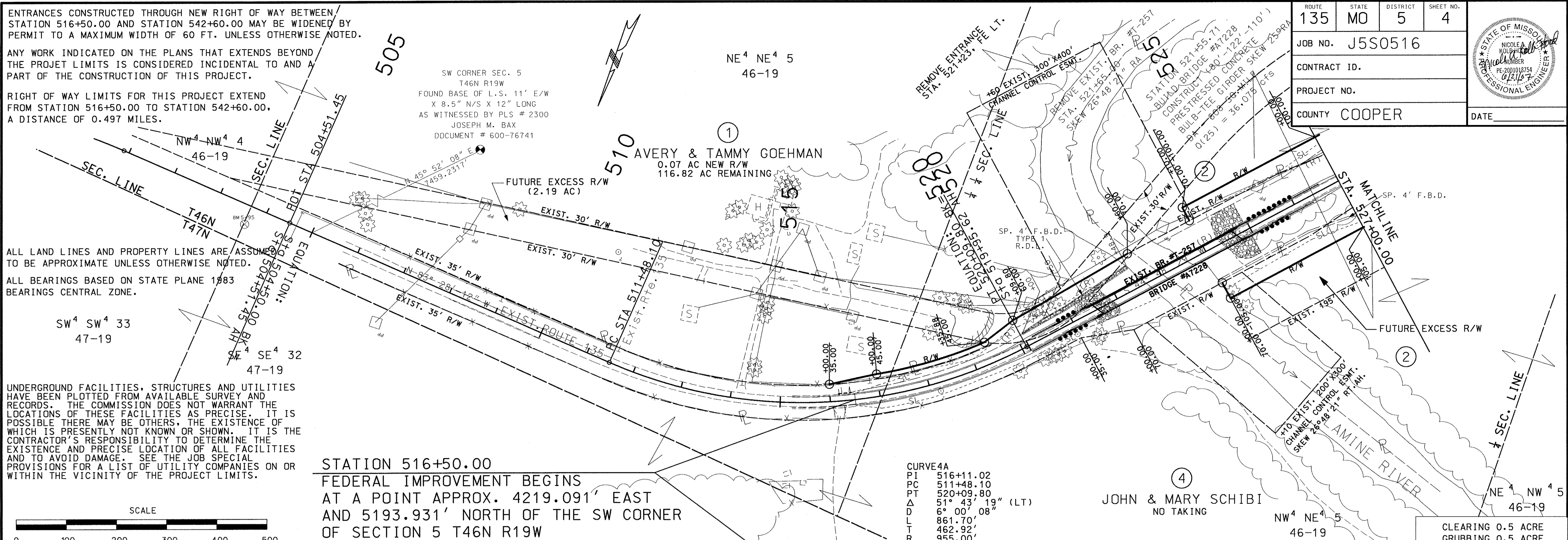
SW CORNER SEC. 5  
T46N R19W  
FOUND BASE OF L.S. 11' E/W  
X 8.5" N/S X 12" LONG  
AS WITNESSED BY PLS # 2300  
JOSEPH M. BAX  
DOCUMENT # 600-76741

NE<sup>4</sup> NE<sup>4</sup> 5  
46-19

510  
AVERY & TAMMY GOEHMAN  
0.07 AC NEW R/W  
116.82 AC REMAINING

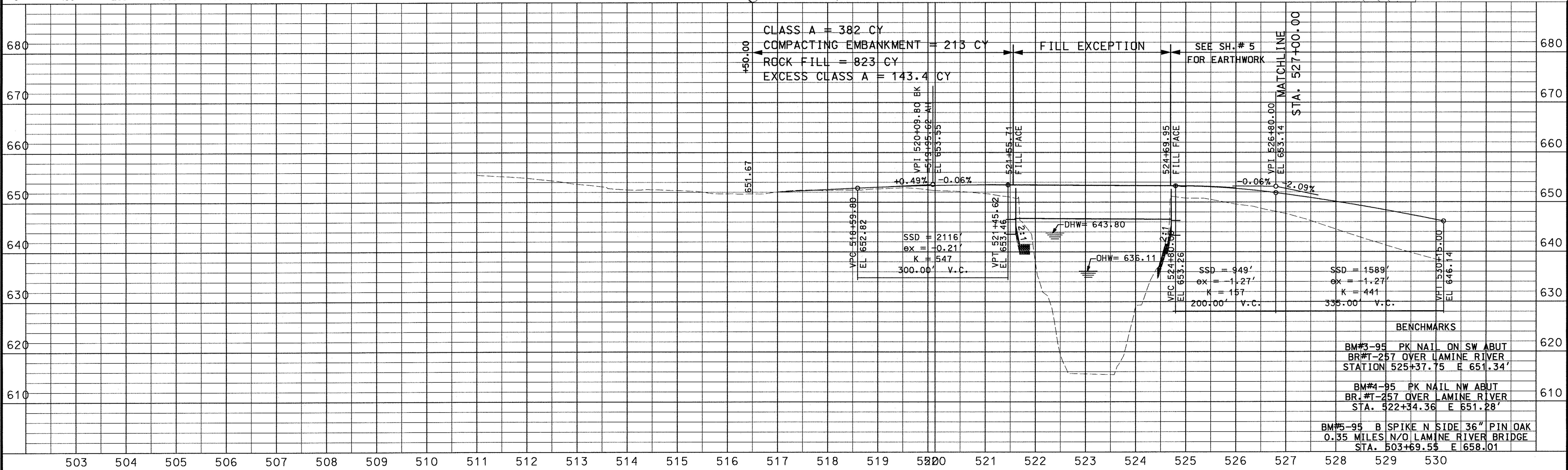
4  
JOHN & MARY SCHIBI  
NO TAKING

ROUTE	STATE	DISTRICT	SHEET NO.
135	MO	5	4
JOB NO. J5S0516			
CONTRACT ID.			
PROJECT NO.			
COUNTY COOPER			DATE



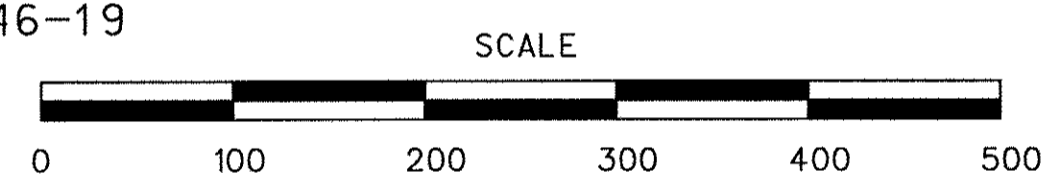
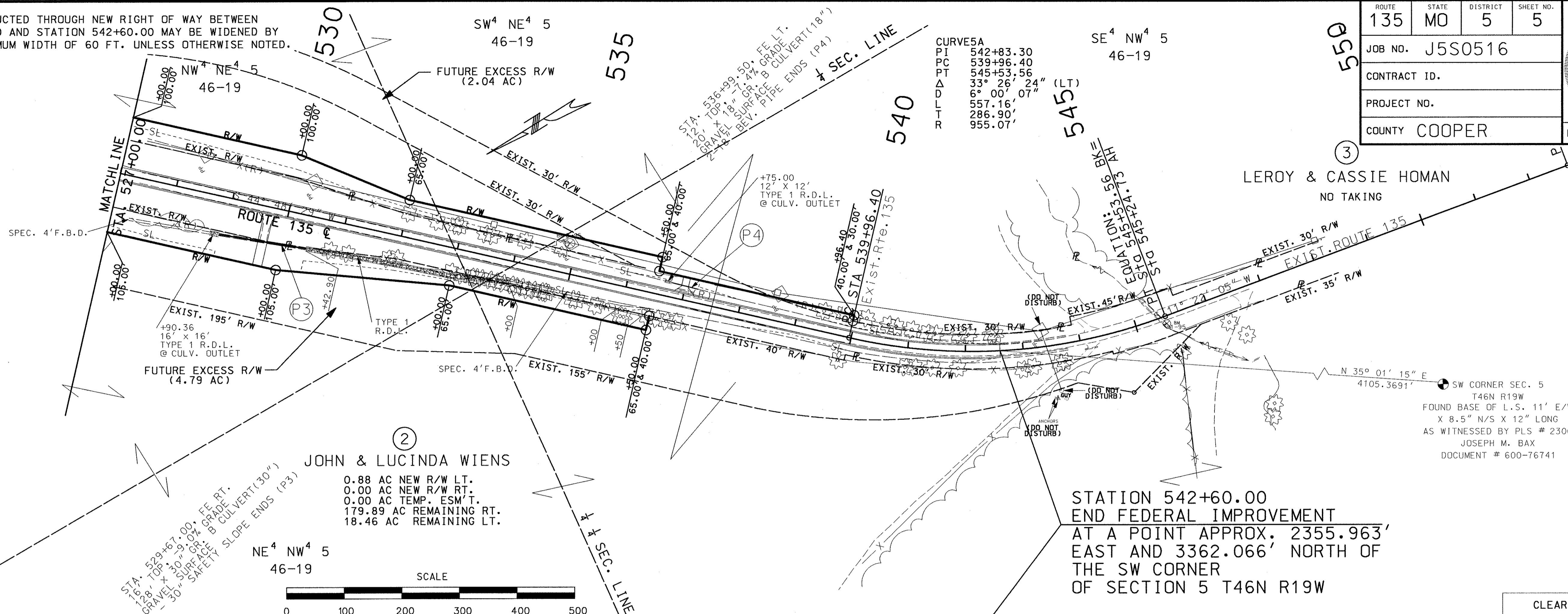
CURVE 4A

PI	516+11.02
PC	511+48.10
PT	520+09.80
Δ	51° 43' 19" (LT)
D	6° 00' 08" (LT)
L	861.70'
T	462.92'
R	955.00'



ENTRANCES CONSTRUCTED THROUGH NEW RIGHT OF WAY BETWEEN STATION 516+50.00 AND STATION 542+60.00 MAY BE WIDENED BY PERMIT TO A MAXIMUM WIDTH OF 60 FT. UNLESS OTHERWISE NOTED.

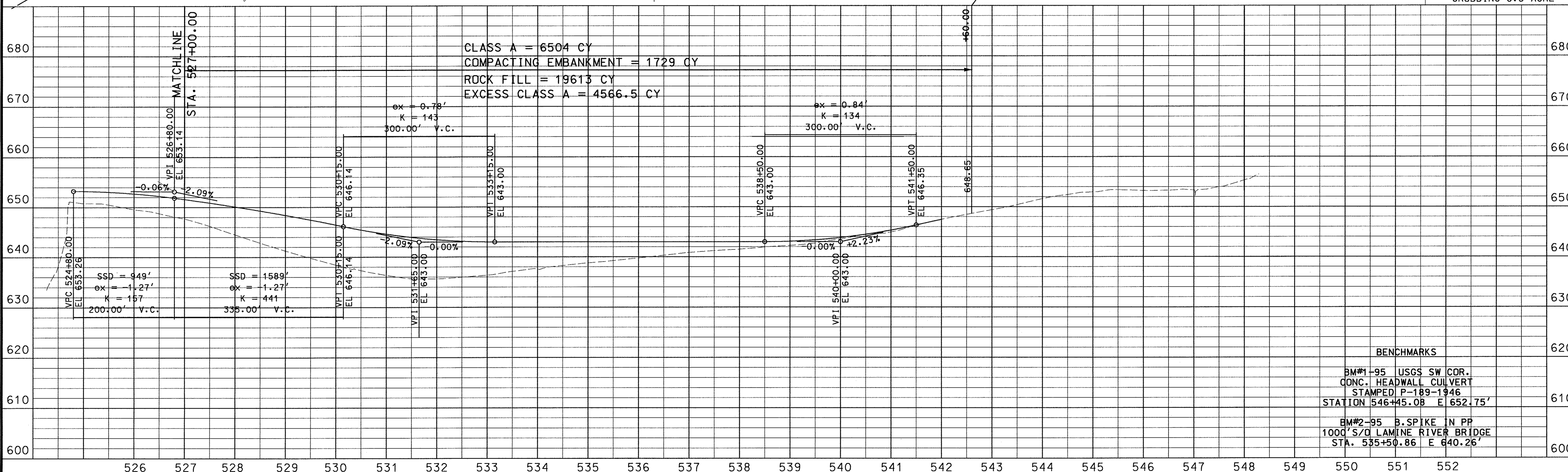
ROUTE	STATE	DISTRICT	SHEET NO.
135	MO	5	5
JOB NO. J5S0516			
CONTRACT ID.			
PROJECT NO.			
COUNTY COOPER			
DATE			



STATION 542+60.00  
END FEDERAL IMPROVEMENT  
AT A POINT APPROX. 2355.963'  
EAST AND 3362.066' NORTH OF  
OF SECTION 5 T46N R19W

SW CORNER SEC. 5  
T46N R19W  
FOUND BASE OF L.S. 11' E/W  
X 8.5" N/S X 12" LONG  
AS WITNESSED BY PLS # 2300  
JOSEPH M. BAX  
DOCUMENT # 600-76741


CLEARING 0.5 ACRE  
GRUBBING 0.5 ACRE



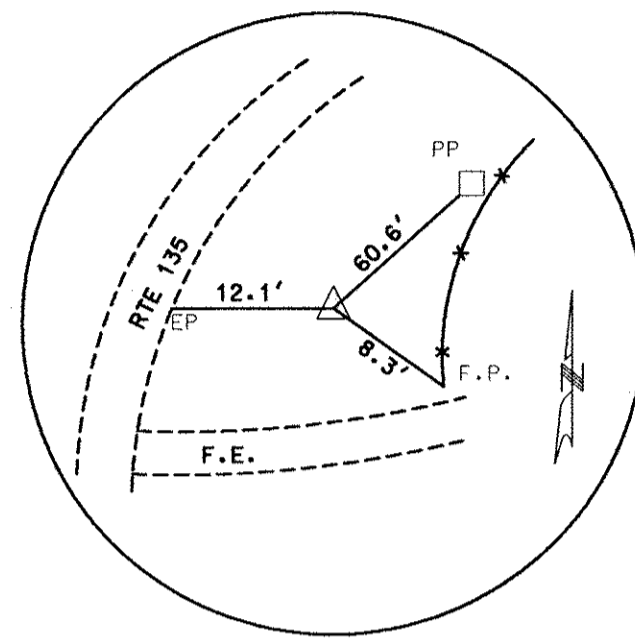
**BENCHMARKS**  
BM#1-95 USGS SW COR.  
CONC. HEADWALL CULVERT  
STAMPED P-189-1946  
STATION 546+45.08 E 652.75'  
BM#2-95 B.SPIKE IN PP  
1000' S/O LAMINE RIVER BRIDGE  
STA. 535+50.86 E 640.26'



# REFERENCE POINTS COORDINATE POINT LISTING MODIFIED STATE PLANE COORDINATES

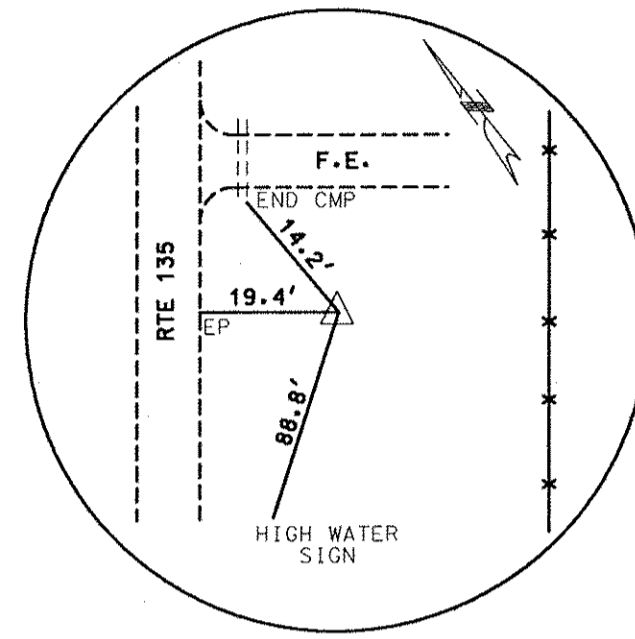
ROUTE <b>135</b>	STATE <b>MO</b>	DISTRICT <b>5</b>	SHEET NO. <b>6</b>	
JOB NO. <b>J5S0516</b>				
CONTRACT ID.				
PROJECT NO.				
COUNTY <b>COOPER</b>				DATE

**TARGET#1= 801**  
N= 1,076,534.73313  
E= 1,488,675.54707



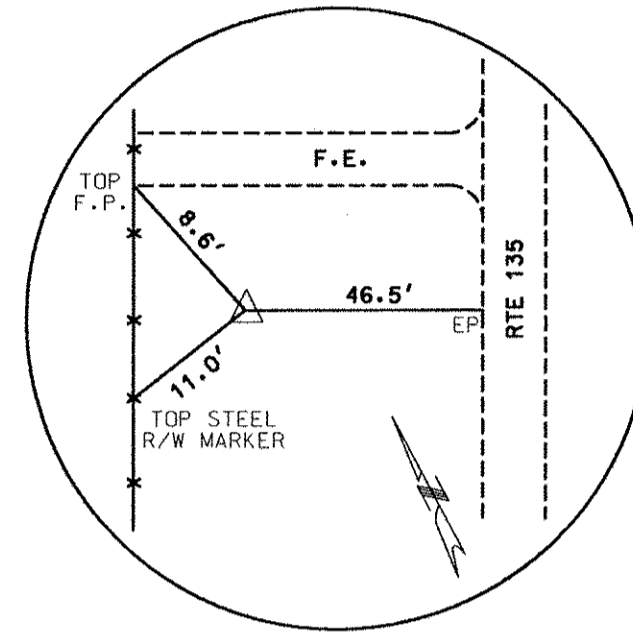
SPIKE 2" DEEP ON EAST SIDE OF ROUTE 135, 0.4 MILE SOUTH OF BRIDGE OVER LAMINE RIVER

**TARGET#2= 802**  
N= 1,077,051.42712  
E= 1,489,081.17013



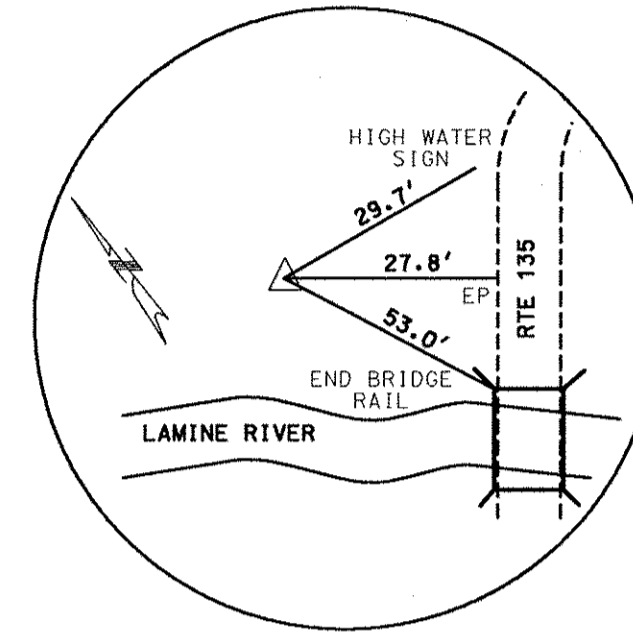
SPIKE 2" DEEP ON EAST SIDE OF ROUTE 135, 0.35 MILE SOUTH OF BRIDGE OVER LAMINE RIVER

**TARGET#3= 803**  
N= 1,077,629.02270  
E= 1,489,537.65099



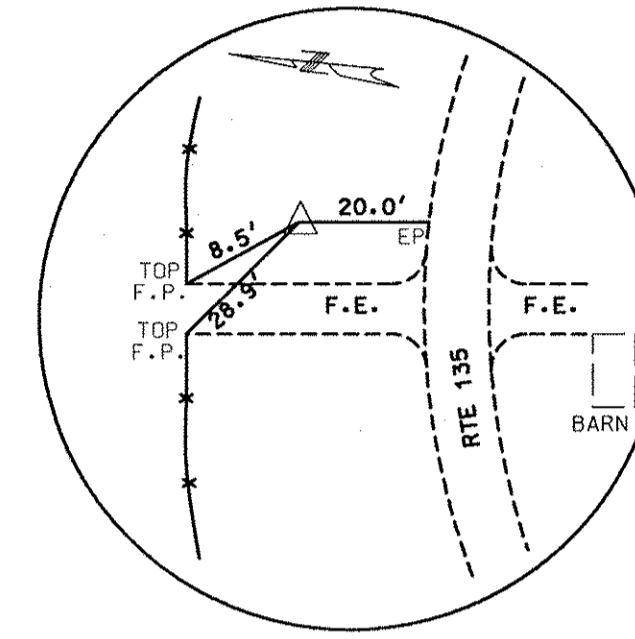
SPIKE 2" DEEP ON WEST SIDE OF ROUTE 135, 0.1 MILE SOUTH OF BRIDGE OVER LAMINE RIVER

**TARGET#4= 804**  
N= 1,078,230.75002  
E= 1,490,161.33789



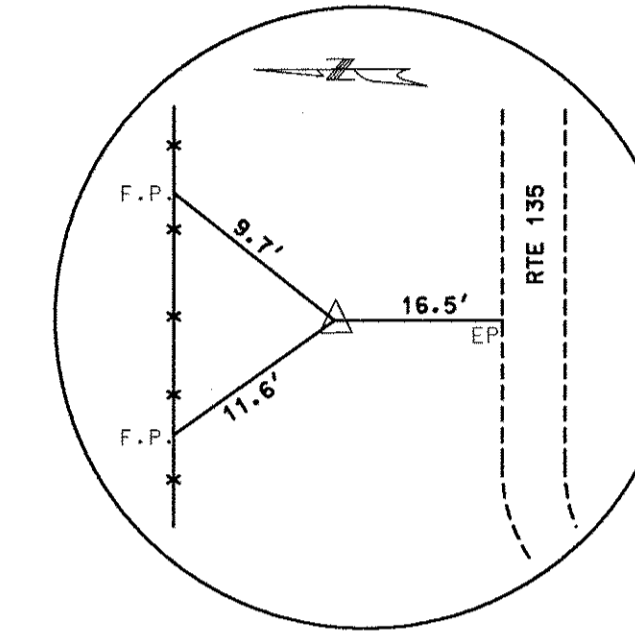
SPIKE 2" DEEP ON WEST SIDE OF ROUTE 135, 60' NORTH OF BRIDGE OVER LAMINE RIVER

**TARGET#5= 805**  
N= 1,078,542.72149  
E= 1,490,608.15506



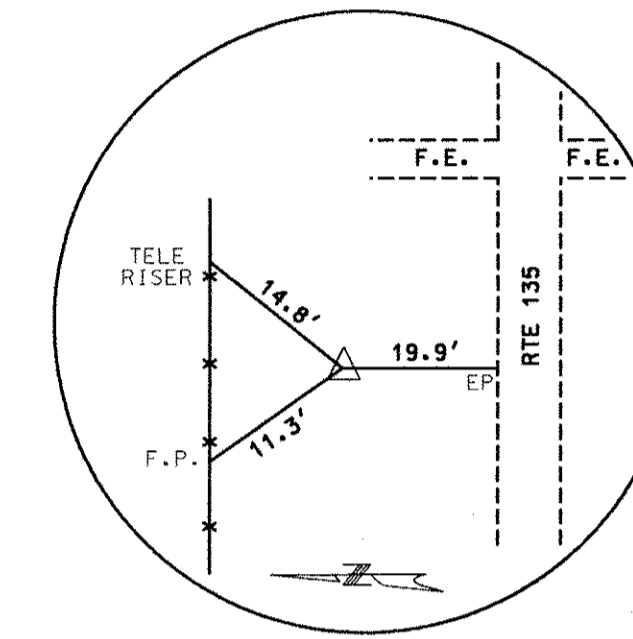
SPIKE 2" DEEP ON NORTH SIDE OF ROUTE 135, 0.1 MILE NORTHEAST OF BRIDGE OVER LAMINE RIVER

**TARGET#6= 806**  
N= 1,078,592.80172  
E= 1,491,129.43865



SPIKE 2" DEEP ON NORTH SIDE OF ROUTE 135, 0.2 MILE EAST OF BRIDGE OVER LAMINE RIVER

**TARGET#7= 107**  
N= 1,078,525.12671  
E= 1,491,733.40251



SPIKE 2" DEEP ON NORTH SIDE OF ROUTE 135, 0.3 MILE EAST OF BRIDGE OVER LAMINE RIVER

REFERENCE POINTS

## COORDINATE POINT LISTING MISSOURI COORDINATE SYSTEM OF 1983 RECIPROCAL AVERAGE GRID FACTOR : 0.9999280

SHEET NO.	STATION <sup>1</sup>	LOCATION	STATE PLANE		MODIFIED STATE PLANE		DESCRIPTION
			NORTHING (FEET)	EASTING (FEET)	NORTHING (FEET)	EASTING (FEET)	
4	504+51.45	☉ ROUTE 135	1,078,415.0080	1,491,649.5660	1,078,492.6597	1,491,756.9725	EQUATION - 504+50.00 BK
4	511+48.10	☉ ROUTE 135	1,078,494.2280	1,490,957.4840	1,078,571.8854	1,491,064.8419	P.C. CURVE C4A
4	516+11.02	☉ ROUTE 135	1,078,546.8690	1,490,497.5170	1,078,624.5305	1,490,604.9251	P.I. CURVE C4A
4	516+50.00	☉ ROUTE 135	1,078,420.5850	1,490,466.6490	1,078,498.2373	1,490,573.9707	BEGIN CONSTRUCTION - ROUTE 135
4	520+09.80 BK. = 519+95.62 AH.	☉ ROUTE 135	1,078,218.4640	1,490,171.3890	1,078,296.1015	1,490,278.6899	P.T. CURVE C4A STATION EQUATION
5	539+96.40	☉ ROUTE 135	1,076,799.0690	1,488,761.4750	1,076,876.6048	1,488,868.6749	P.C. CURVE C5A
5	542+83.30	☉ ROUTE 135	1,076,595.5370	1,488,559.3030	1,076,673.0574	1,488,666.4871	P.I. CURVE C5A
5	542+60.00	☉ ROUTE 135	1,076,588.8520	1,488,603.6550	1,076,666.3727	1,488,710.8423	END CONSTRUCTION - ROUTE 135
5	545+53.56	☉ ROUTE 135	1,076,314.2860	1,488,502.7560	1,076,391.7862	1,488,609.9365	P.T. CURVE C5A

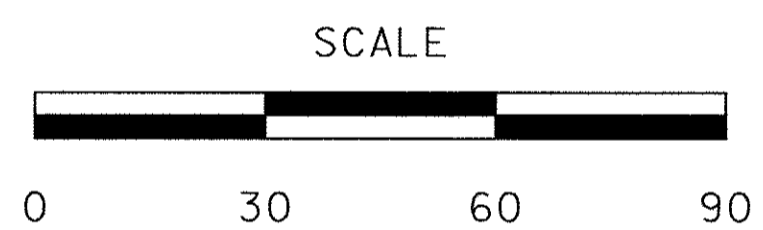
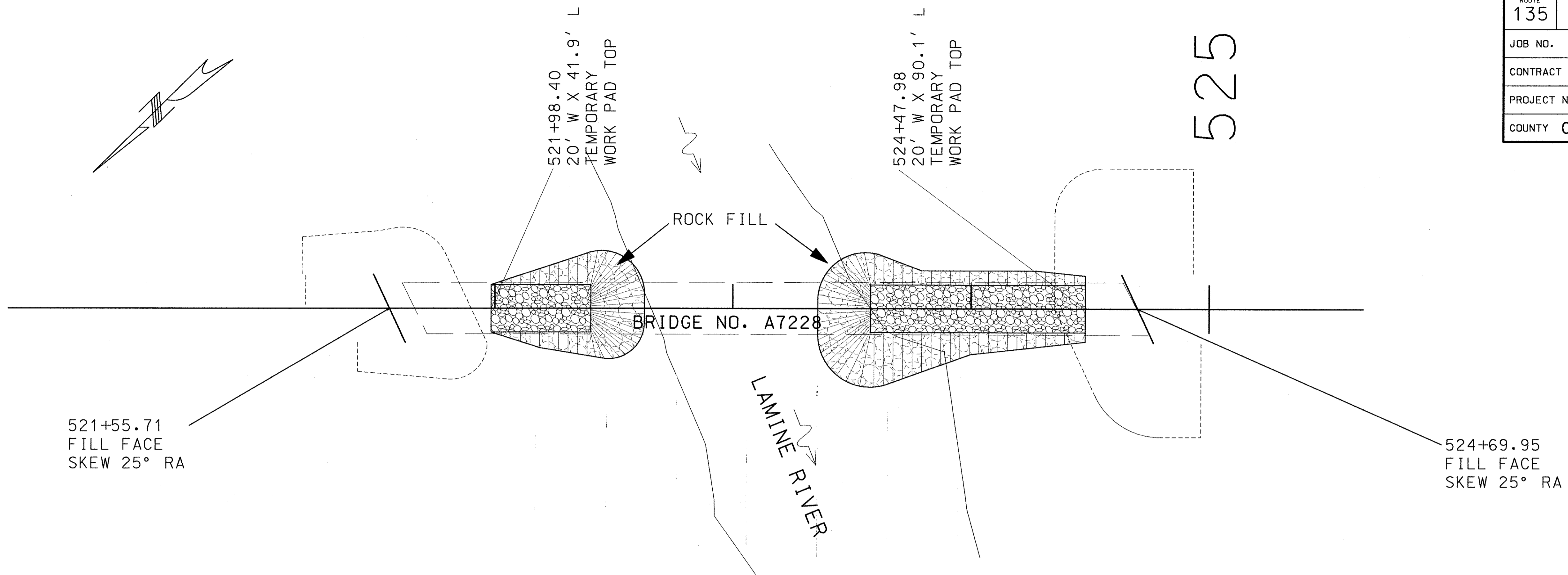
COORDINATE POINTS

REFERENCE POINTS  
& COORDINATE POINTS  
SHEET 1 OF 1

1 GROUND DISTANCE

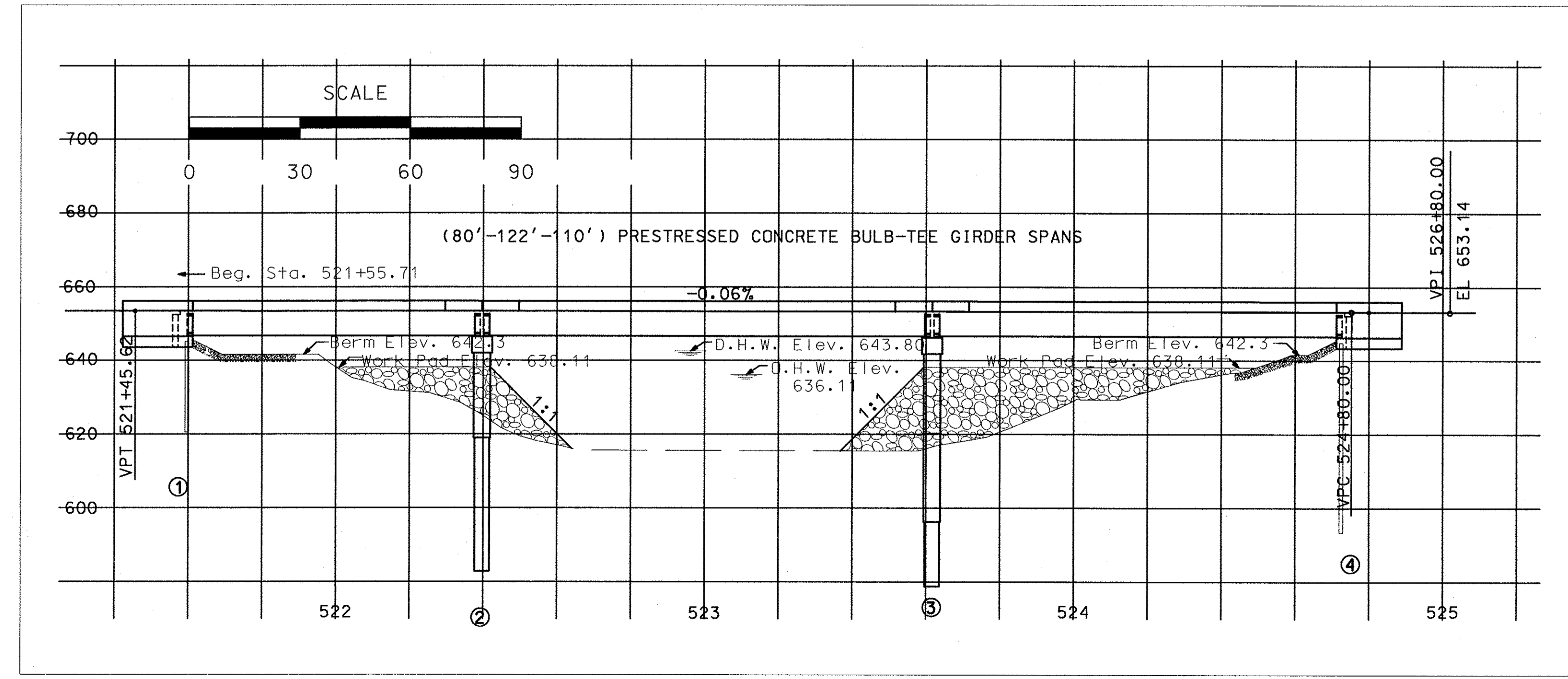
NOTE : THE RECIPROCAL OF THE AVERAGE GRID FACTOR IS USED AS A MULTIPLIER FROM STATE PLANE DISTANCE TO GROUND DISTANCE.

ROUTE 135	STATE MO	DISTRICT 5	SHEET NO. 7
JOB NO. J5S0516			
CONTRACT ID.			
PROJECT NO.			
COUNTY COOPER			
DATE _____			



NOTE:  
CASING MAY BE PLACED AT OPTION OF THE DRILLER PRIOR TO  
CONSTRUCTION OF WORKPAD FOR CONSTRUCTION OF DRILLED SHAFTS.  
COORDINATION IS RECOMMENDED BETWEEN CONTRACTOR AND DRILLER.

TEMPORARY WORK PAD PROFILES



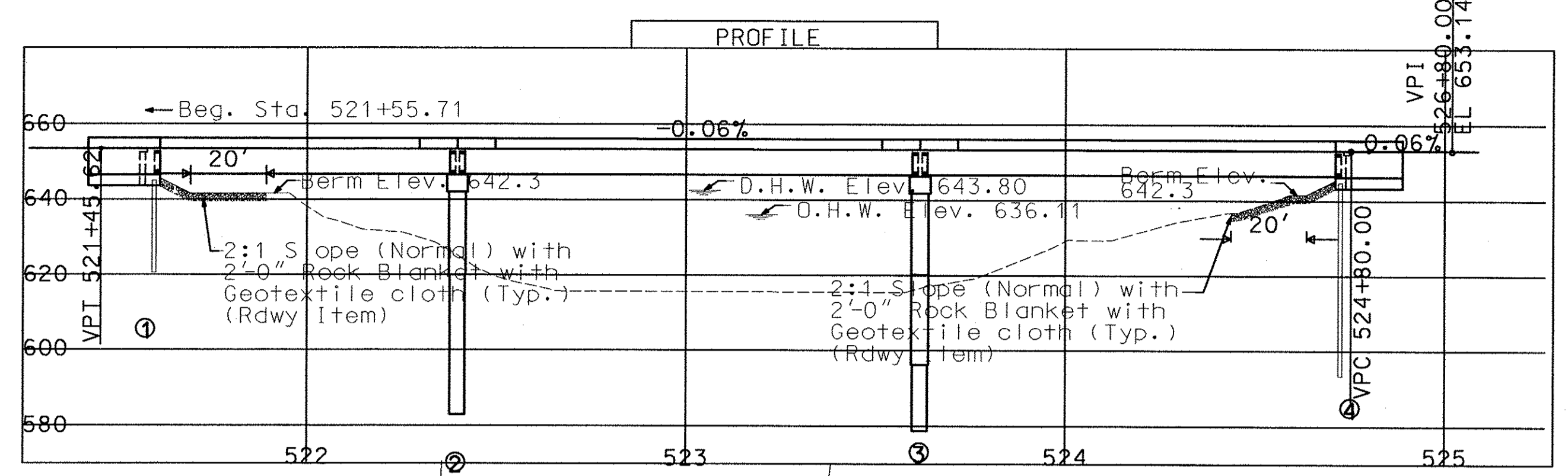
SPECIAL SHEET 1 OF 3  
TEMPORARY WORK PAD  
DETAILS

ROUTE 135	STATE MO	DISTRICT 5	SHEET NO. 8
JOB NO. J5S0516			
CONTRACT ID.			
PROJECT NO.			
COUNTY COOPER			
			DATE 7/12/07



520  
528

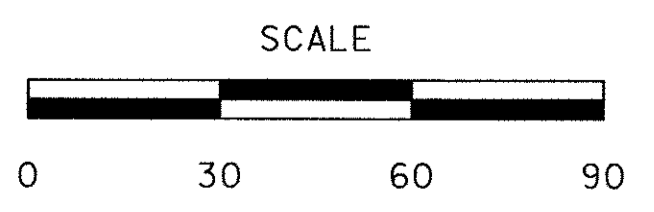
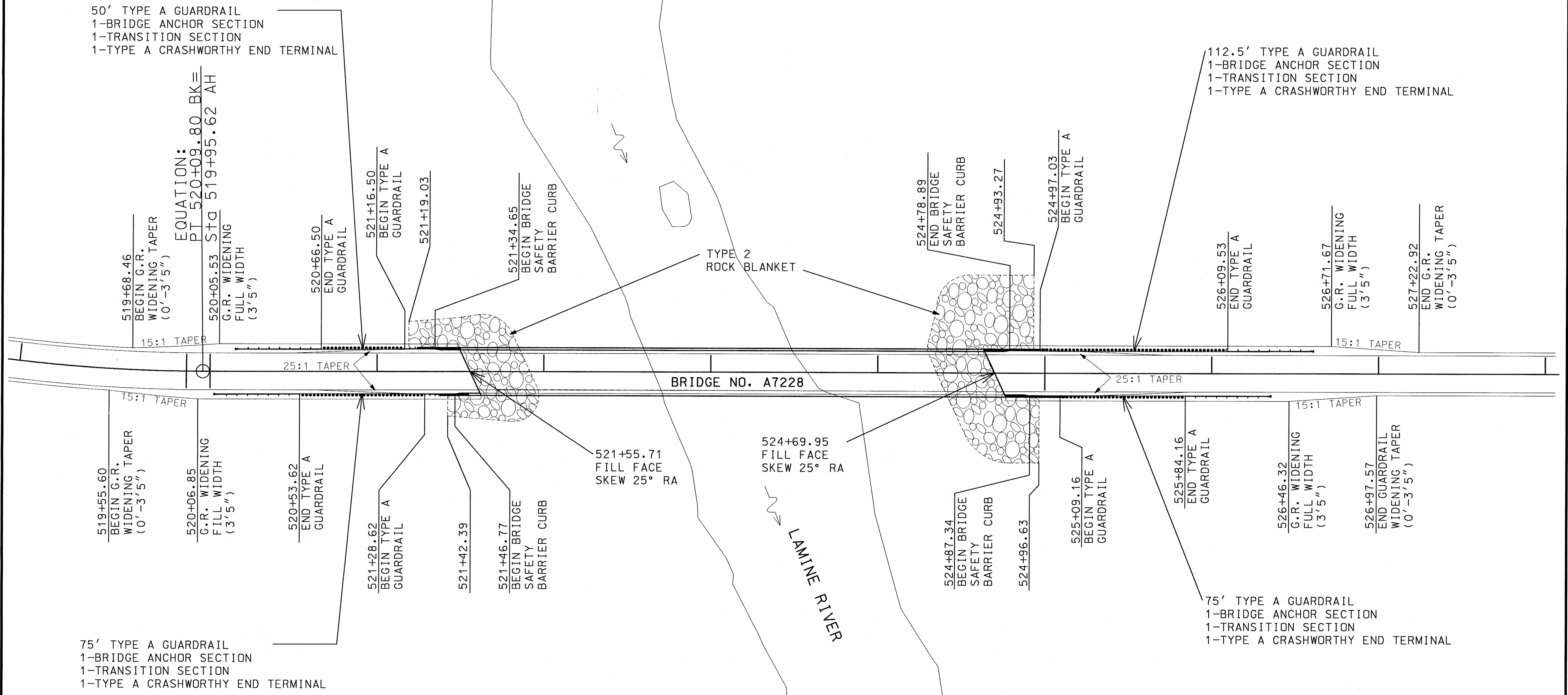
525



50' TYPE A GUARDRAIL  
1-BRIDGE ANCHOR SECTION  
1-TRANSITION SECTION  
1-TYPE A CRASHWORTHY END TERMINAL

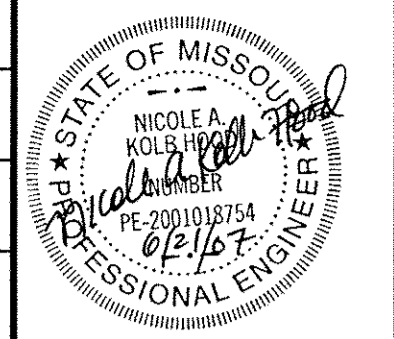
112.5' TYPE A GUARDRAIL  
1-BRIDGE ANCHOR SECTION  
1-TRANSITION SECTION  
1-TYPE A CRASHWORTHY END TERMINAL

EQUATION:  
PT 520+09.80 BK=  
STC 519+95.62 AH



SPECIAL SHEET 2 OF 3  
BRIDGE END DETAILS

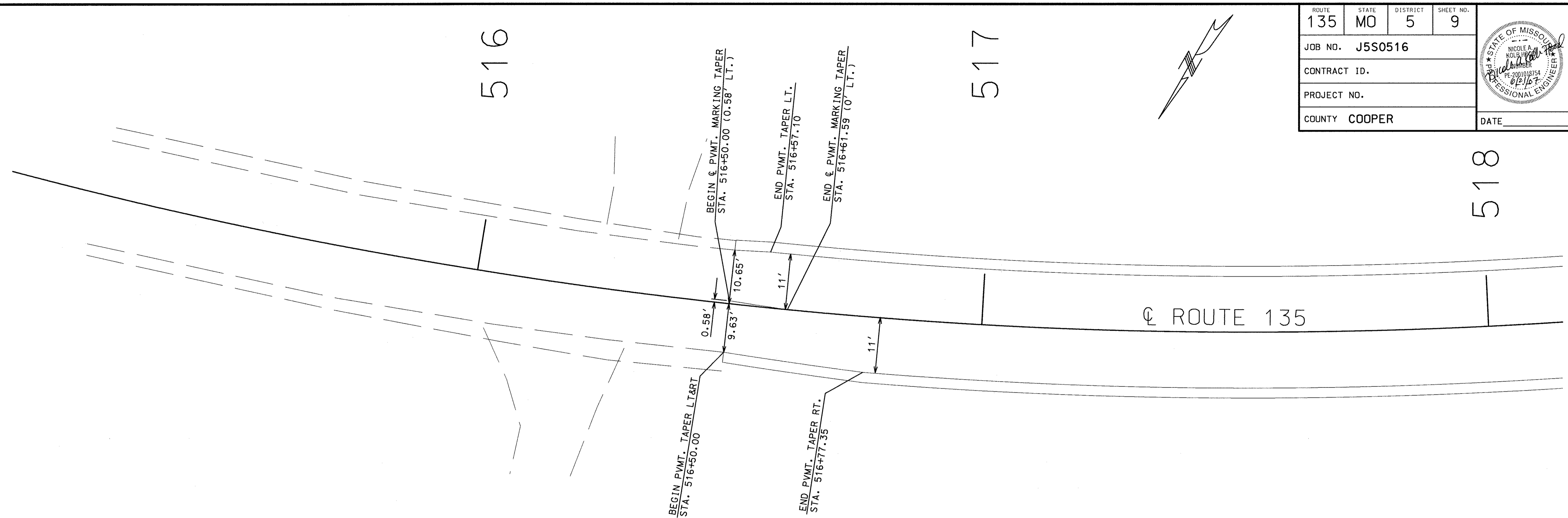
ROUTE 135	STATE MO	DISTRICT 5	SHEET NO. 9
JOB NO. J5S0516			
CONTRACT ID.			
PROJECT NO.			
COUNTY COOPER			DATE



518

516

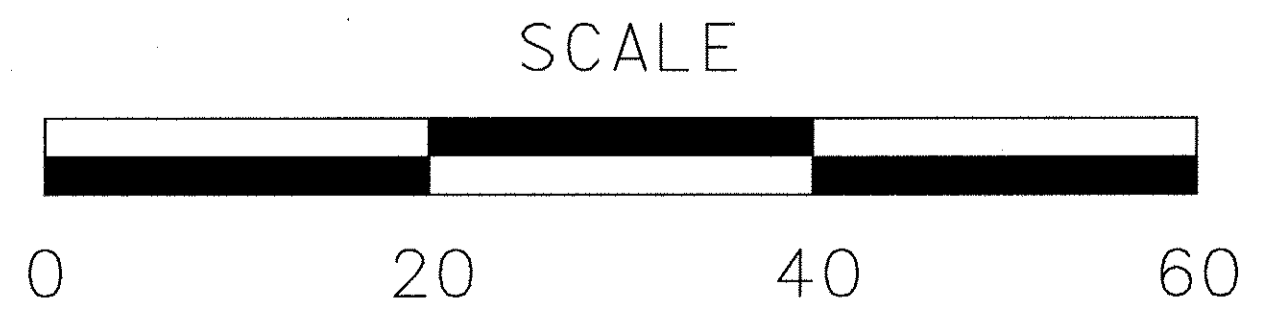
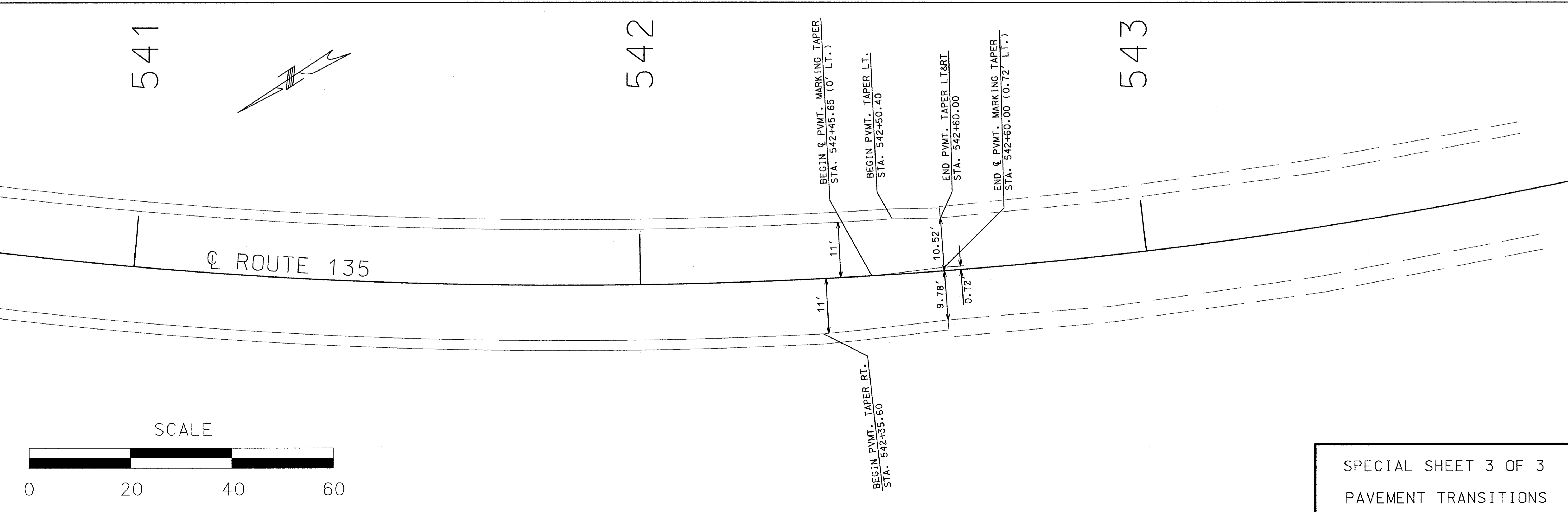
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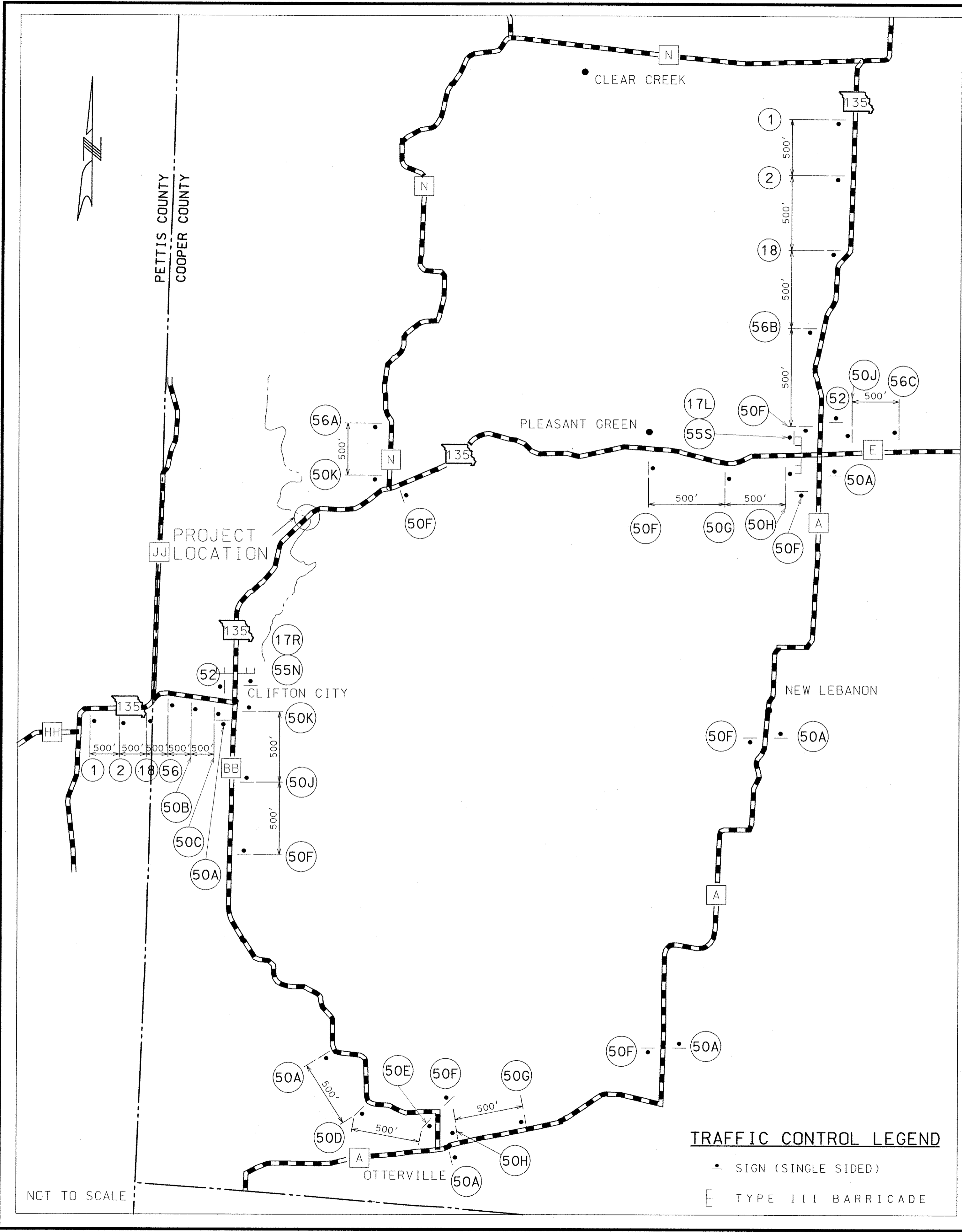
541

542

543



SPECIAL SHEET 3 OF 3  
PAVEMENT TRANSITIONS



<b>DETOUR</b> M04-8	<b>DETOUR</b> M04-8	<b>DETOUR</b> M04-8	<b>DETOUR</b> M04-8	<b>DETOUR</b> M04-8
<b>NORTH</b> M3-1	<b>NORTH</b> M3-1	<b>NORTH</b> M3-1	<b>NORTH</b> M3-1	<b>NORTH</b> M3-1
<b>135</b> M1-6	<b>135</b> M1-6	<b>135</b> M1-6	<b>135</b> M1-6	<b>135</b> M1-6
↑ M6-3	↗ M5-1R	→ M6-1	↖ M5-1L	← M6-1
50A	50B	50C	50D	50E

<b>DETOUR</b> M04-8	<b>DETOUR</b> M04-8	<b>DETOUR</b> M04-8	<b>DETOUR</b> M04-8	<b>DETOUR</b> M04-8
<b>SOUTH</b> M3-3	<b>SOUTH</b> M3-3	<b>SOUTH</b> M3-3	<b>SOUTH</b> M3-3	<b>SOUTH</b> M3-3
<b>135</b> M1-6	<b>135</b> M1-6	<b>135</b> M1-6	<b>135</b> M1-6	<b>135</b> M1-6
↑ M6-3	↗ M5-1R	→ M6-1	↖ M5-1L	← M6-1
50F	50G	50H	50J	50K

**END DETOUR**  
M04-8a  
52

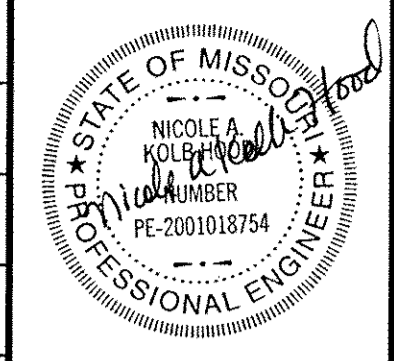
**DETOUR AHEAD**  
W020-2  
18

TYPE III MOVEABLE BARRICADE

96" <b>CLOSED 2.1 MILES AHEAD</b> SPECIAL 56 SEE NOTE 56	96" <b>CLOSED 1.0 MILES AHEAD</b> SPECIAL 56A SEE NOTE 56	96" <b>CLOSED 5.8 MILES AHEAD</b> SPECIAL 56B SEE NOTE 56	96" <b>CLOSED 5.7 MILES AHEAD</b> SPECIAL 56C SEE NOTE 56
---	--	--	--

- GENERAL NOTES:**
- ALL SIGNS SHALL BE PERMANENT UNLESS OTHERWISE NOTED.
  - ANY EXISTING SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLAN SHALL BE COMPLETELY COVERED OR REMOVED.
  - ALL DISTANCES AND SPACING OF TRAFFIC CONTROL DEVICES ARE APPROXIMATE AND MAY BE REVISED AS DIRECTED BY THE ENGINEER TO FIT FIELD CONDITIONS.

ROUTE 135	STATE MO	DISTRICT 5	SHEET NO. 10
JOB NO. J5S0516			
CONTRACT ID.			
PROJECT NO.			
COUNTY COOPER			
			DATE 7/12/07



**DETOUR**  
M04-10R  
17R

**DETOUR**  
M04-10L  
17L

**THE DIFFERENCE IS YOU DRIVE SMART**  
www.MoDOT.org  
CONST-6-48  
2

**New Bridge FALL 2008**  
CONST-5-96  
1

TYPE B WARNING LIGHTS

**ROAD CLOSED 1.8 MILES AHEAD LOCAL TRAFFIC ONLY**  
R11-3a  
55N

**ROAD CLOSED 5.5 MILES AHEAD LOCAL TRAFFIC ONLY**  
R11-3a  
55S

NOTE 56:  
SPECIAL SIGN NO. 56, 56A, 56B, & 56C USE 6" "EM" SERIES LETTERS WITH 1.0" BLACK BORDER 3" RADIUS AND BLACK LETTERING ON ORANGE BACKGROUND SEE STANDARD PLAN 903.20 FOR CARDINAL DIRECTION AND ROUTE SHIELD DETAILS.

**TRAFFIC CONTROL**  
**DETOUR DETAIL**  
**SHEET 1 OF 2**

ROUTE	STATE	DISTRICT	SHEET NO.
135	MO	5	11
JOB NO. J5S0516			
CONTRACT ID.			
PROJECT NO.			
COUNTY COOPER			
			DATE

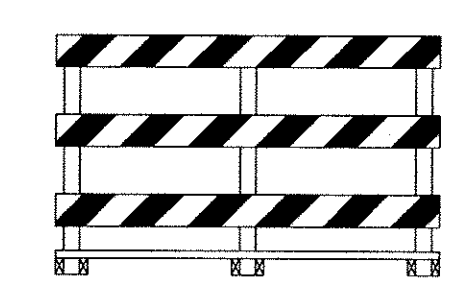


W020-3  
20

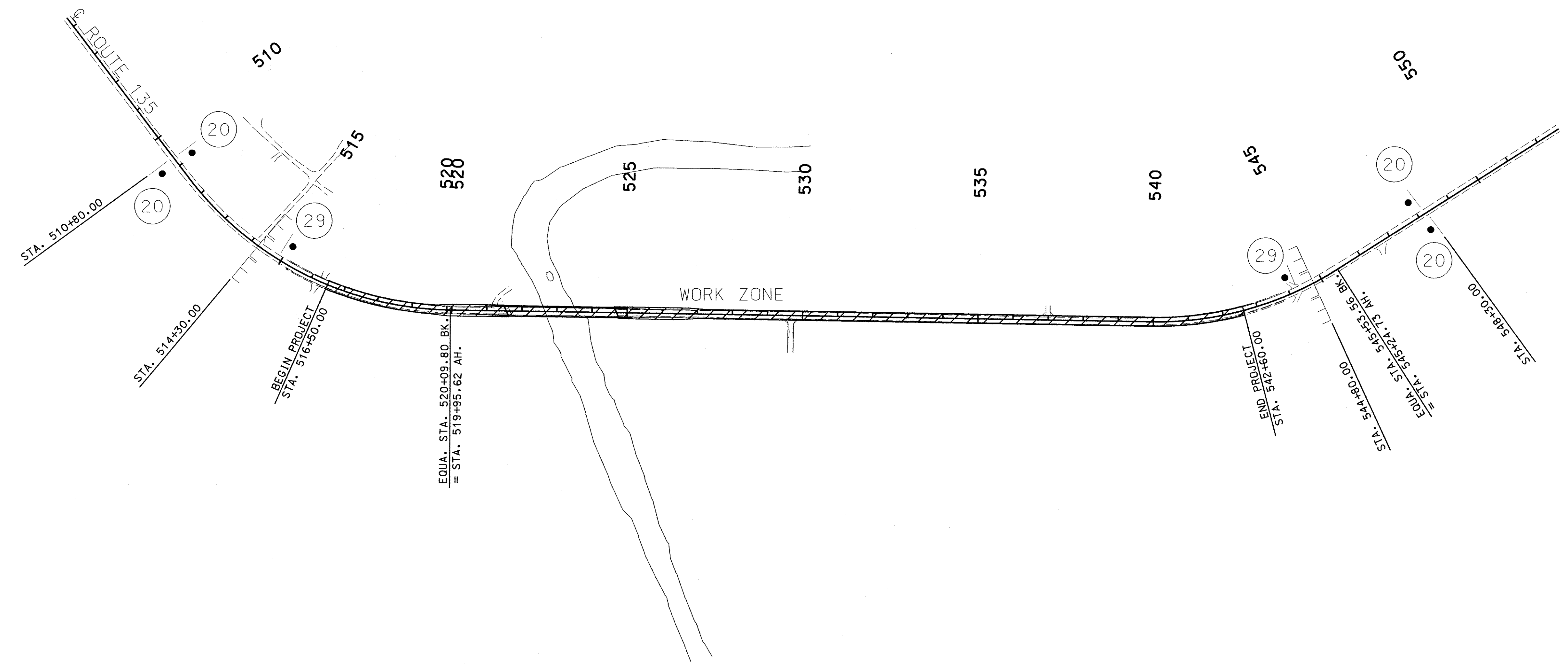
TYPE B WARNING LIGHT



R11-2  
29

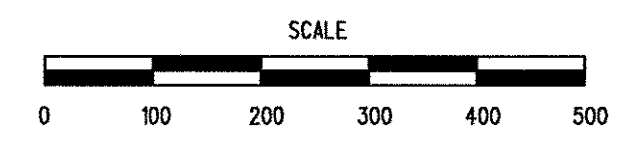


TYPE III BARRICADE



**TRAFFIC CONTROL LEGEND**

- SIGN (SINGLE SIDED)
- E TYPE III BARRICADE
- ▨ WORK AREA



**GENERAL NOTES:**

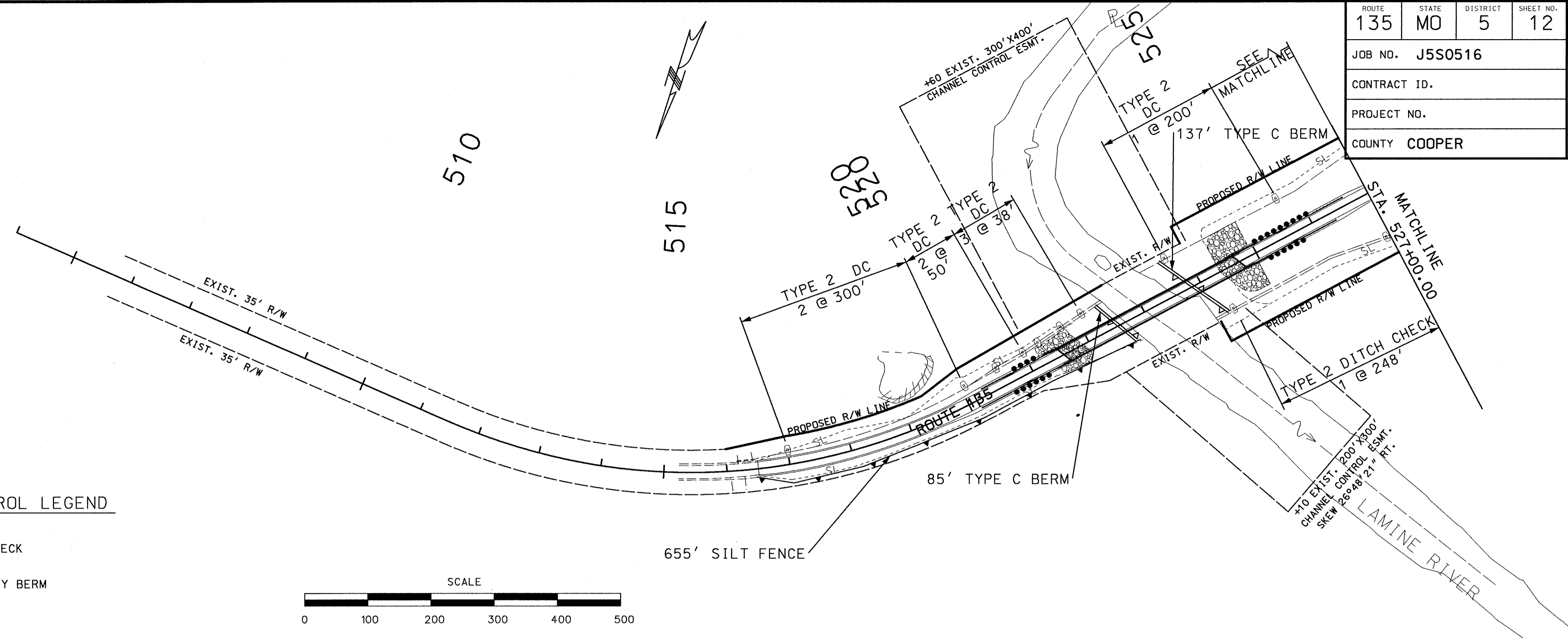
1. ALL SIGNS SHALL BE PERMANENT UNLESS OTHERWISE NOTED.
2. ANY EXISTING SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLAN SHALL BE COMPLETELY COVERED OR REMOVED.
3. ALL DISTANCES AND SPACING OF TRAFFIC CONTROL DEVICES ARE APPROXIMATE AND MAY BE REVISED AS DIRECTED BY THE ENGINEER TO FIT FIELD CONDITIONS.

**CONSTRUCTION SEQUENCE**

1. GRADING FOR APPROACHES - STA. 516+50 TO STA. 542+60
2. BUILD BRIDGE & APPROACHES - 516+50 TO 542+60

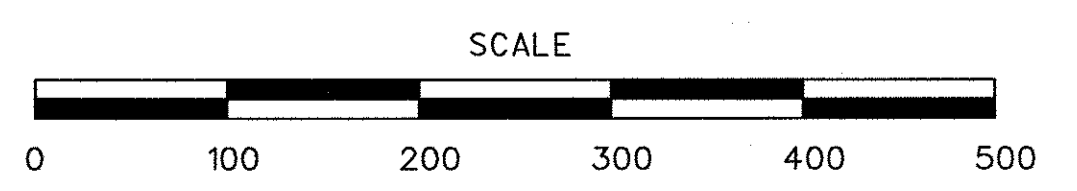
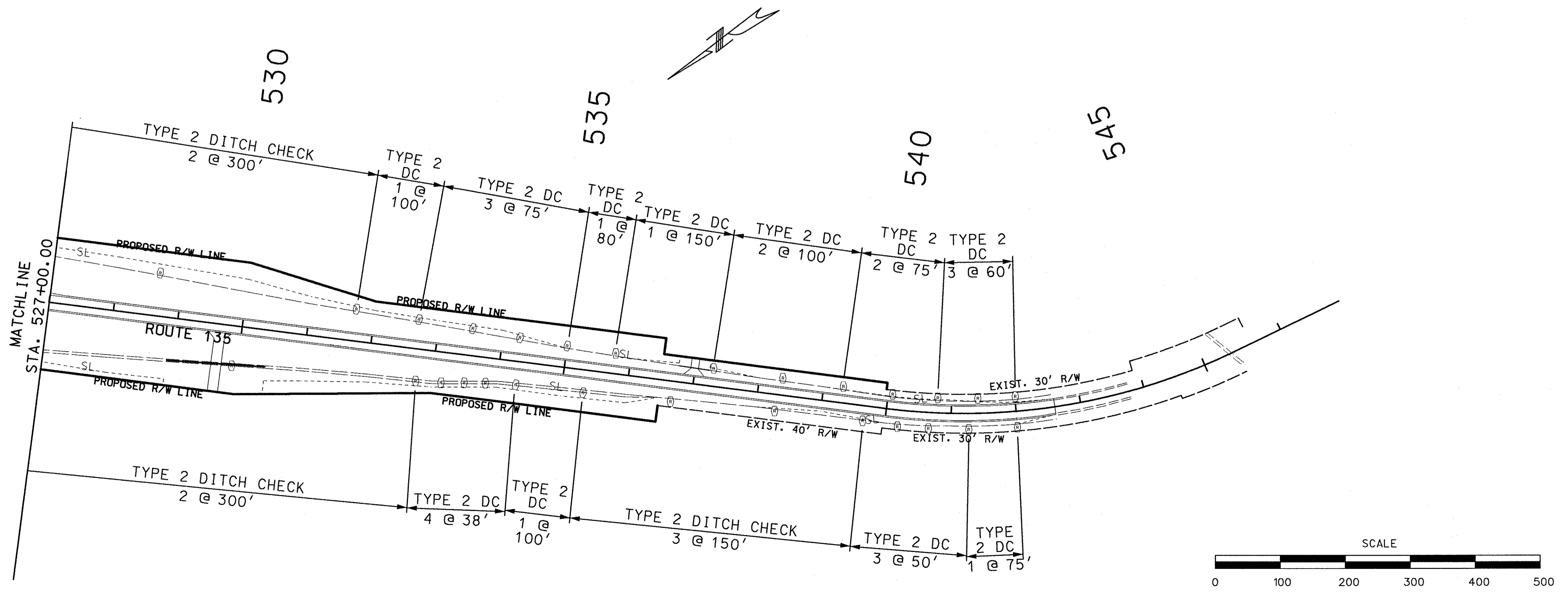
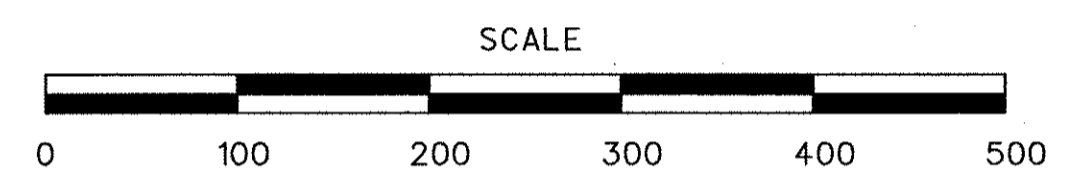
**TRAFFIC CONTROL  
WORK ZONE SIGNING  
SHEET 2 OF 2**

ROUTE	STATE	DISTRICT	SHEET NO.
135	MO	5	12
JOB NO. J5S0516			
CONTRACT ID.			
PROJECT NO.			
COUNTY COOPER			
			DATE



TEMPORARY EROSION CONTROL LEGEND

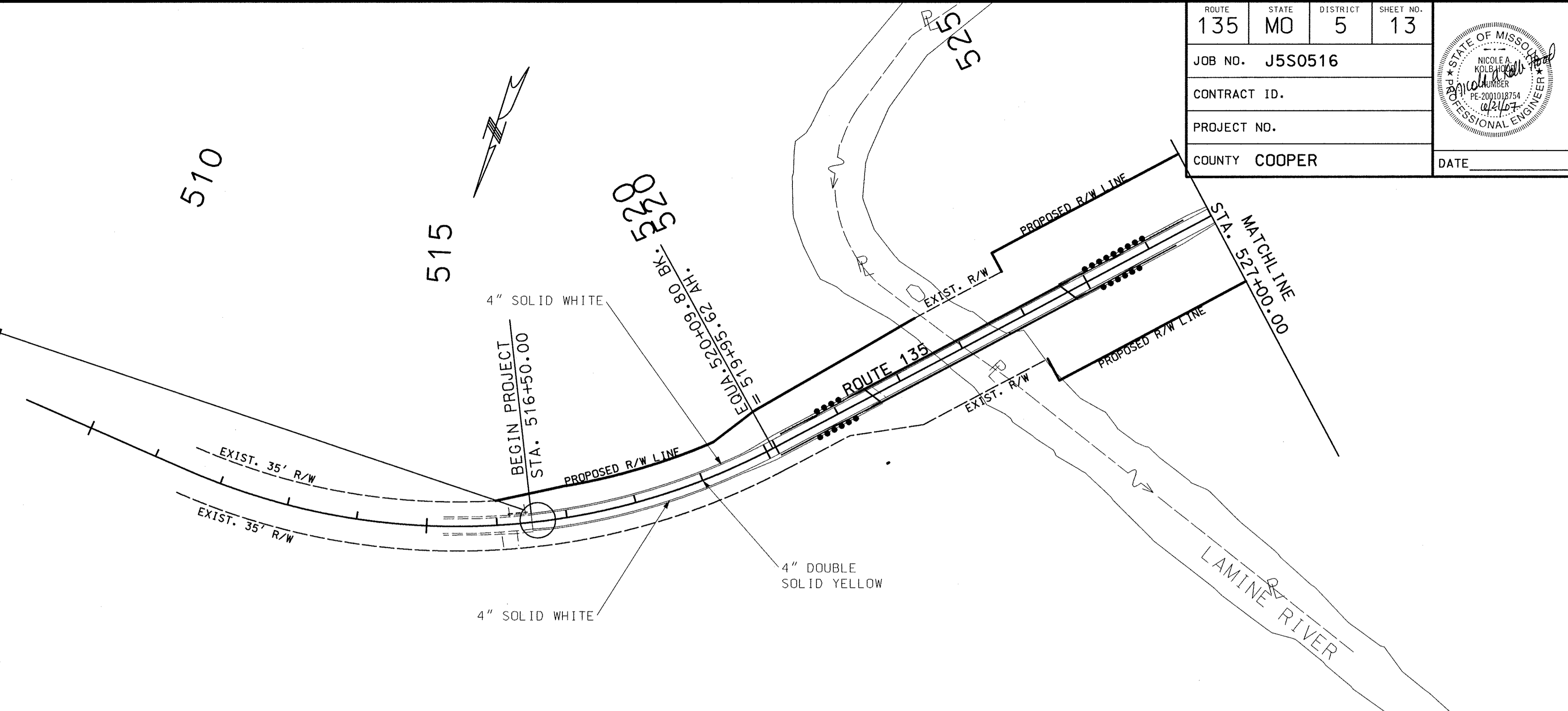
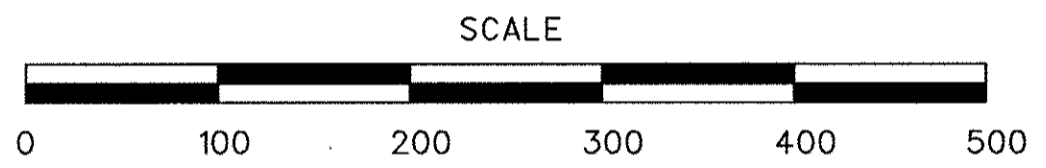
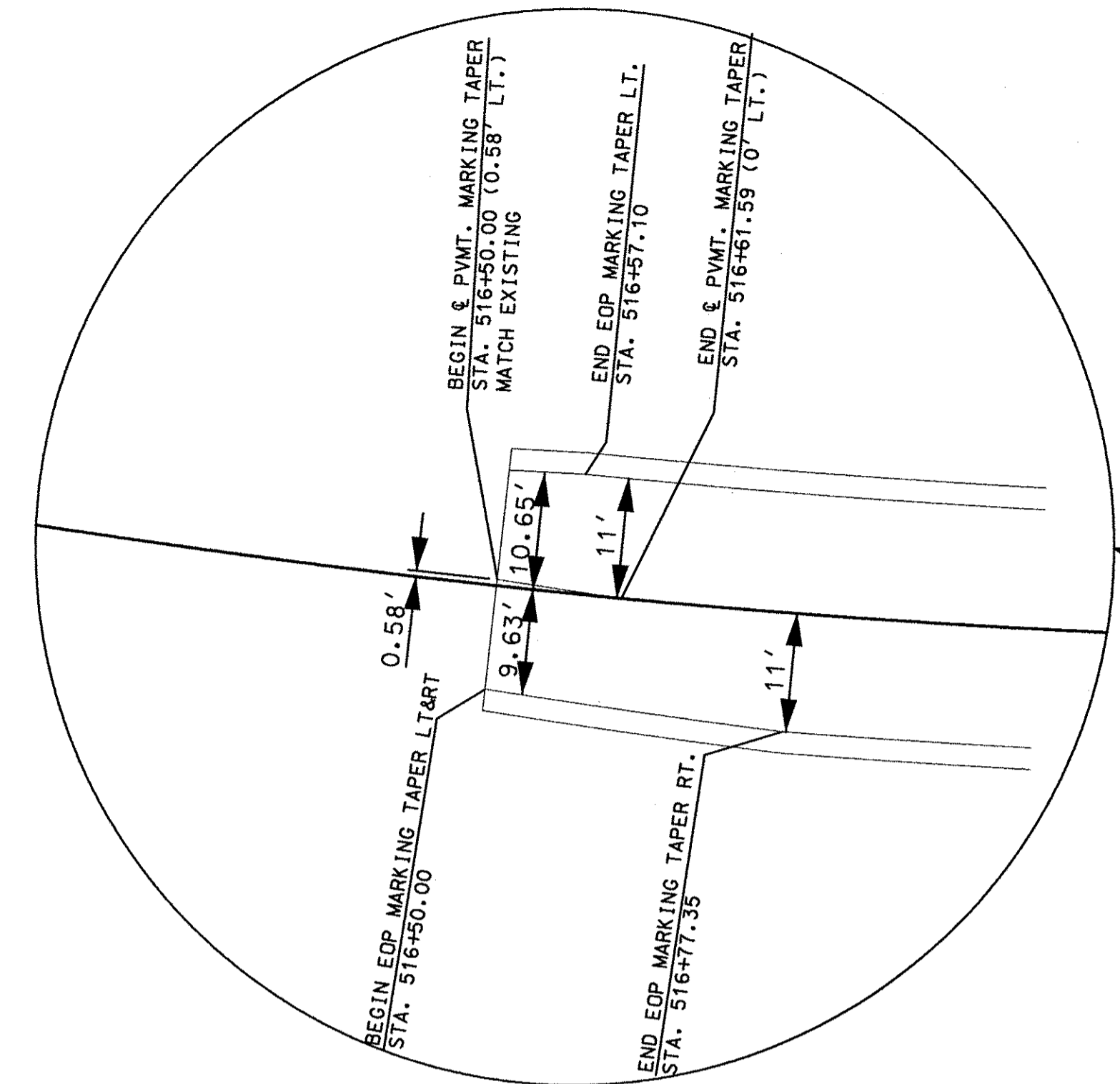
- TYPE 2 DITCH CHECK
- TYPE C TEMPORARY BERM
- SILT FENCE



**TEMPORARY  
EROSION CONTROL**  
SHEET 1 OF 1

DETAIL NOT TO SCALE

ROUTE 135	STATE MO	DISTRICT 5	SHEET NO. 13
JOB NO. J5S0516			
CONTRACT ID.			
PROJECT NO.			
COUNTY COOPER			
DATE			



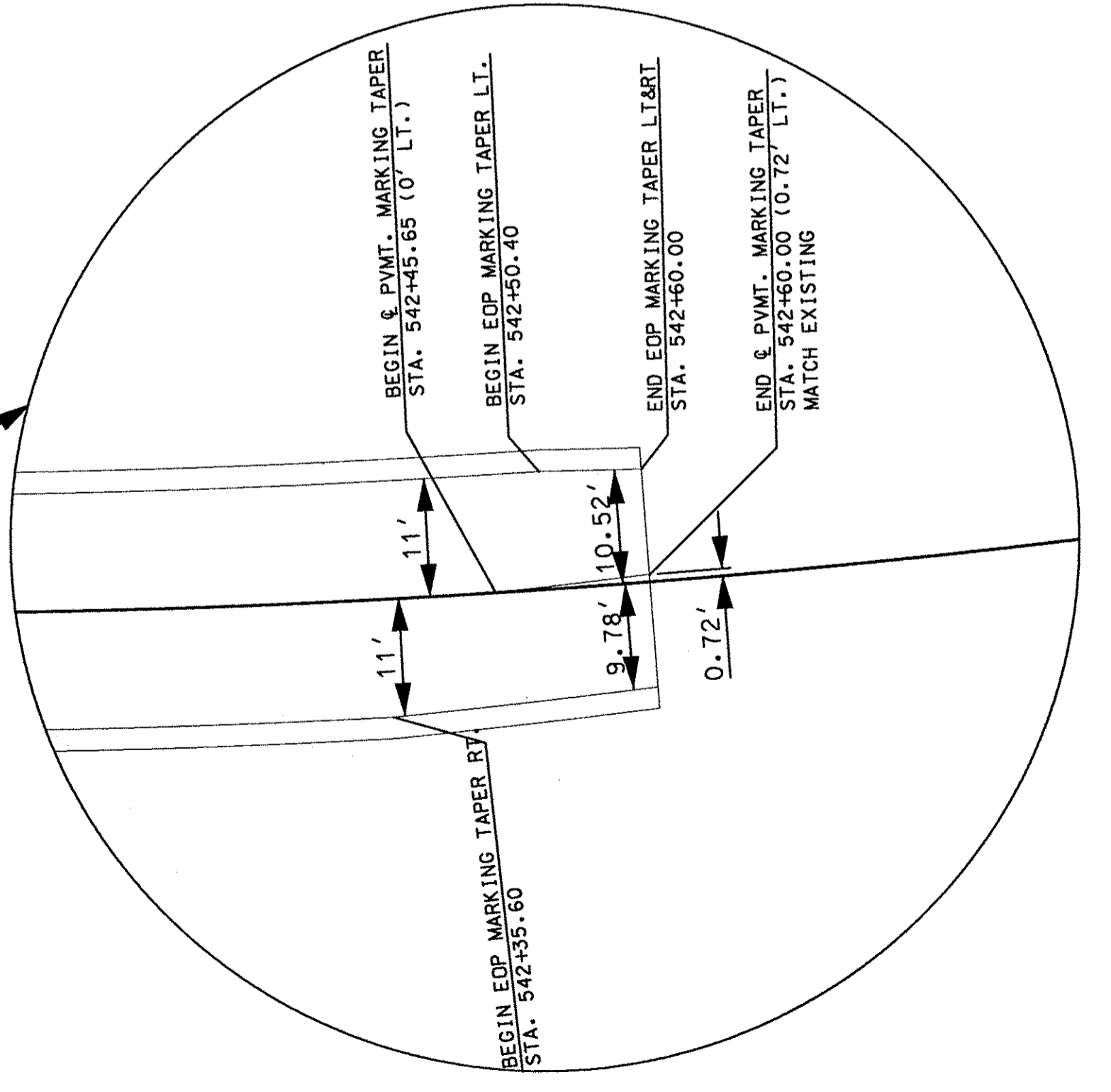
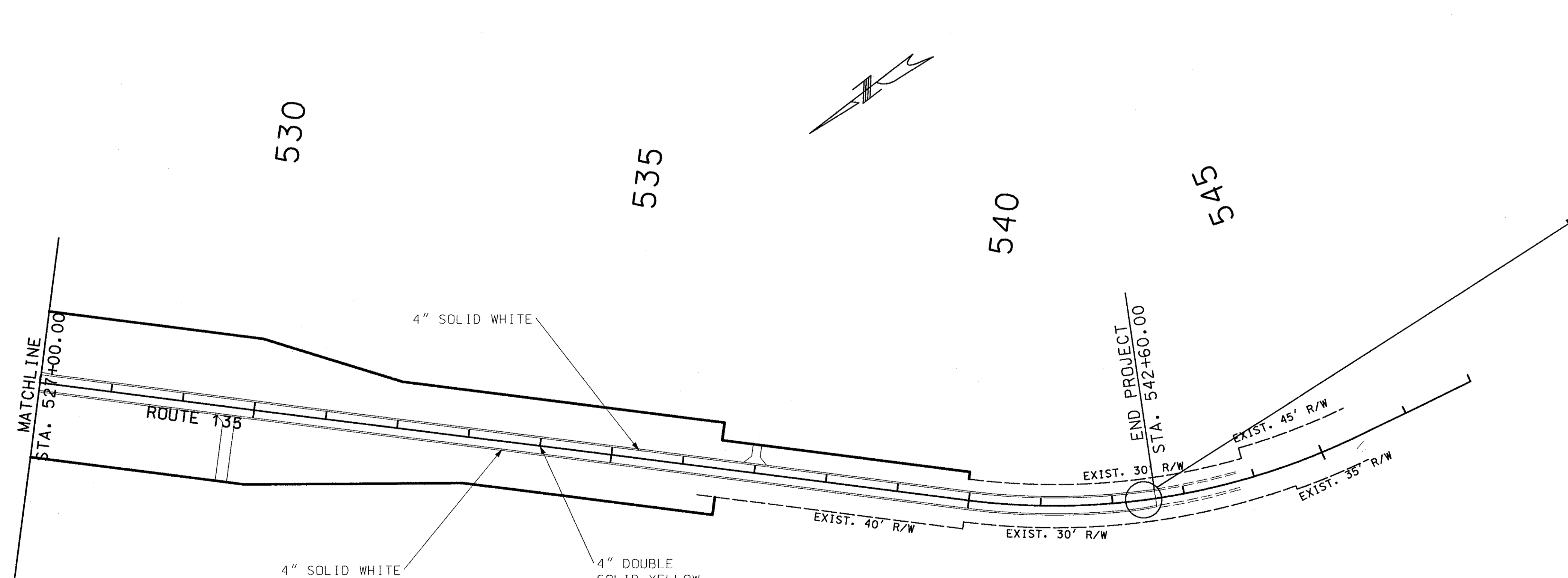
525

530

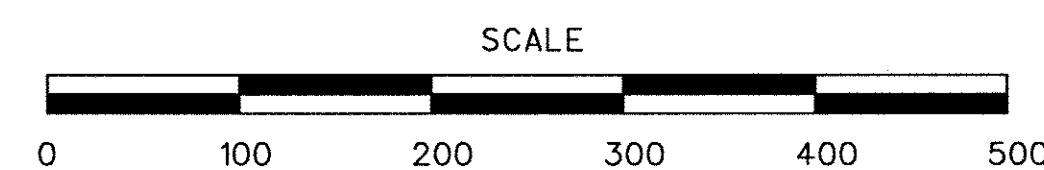
535

540

545



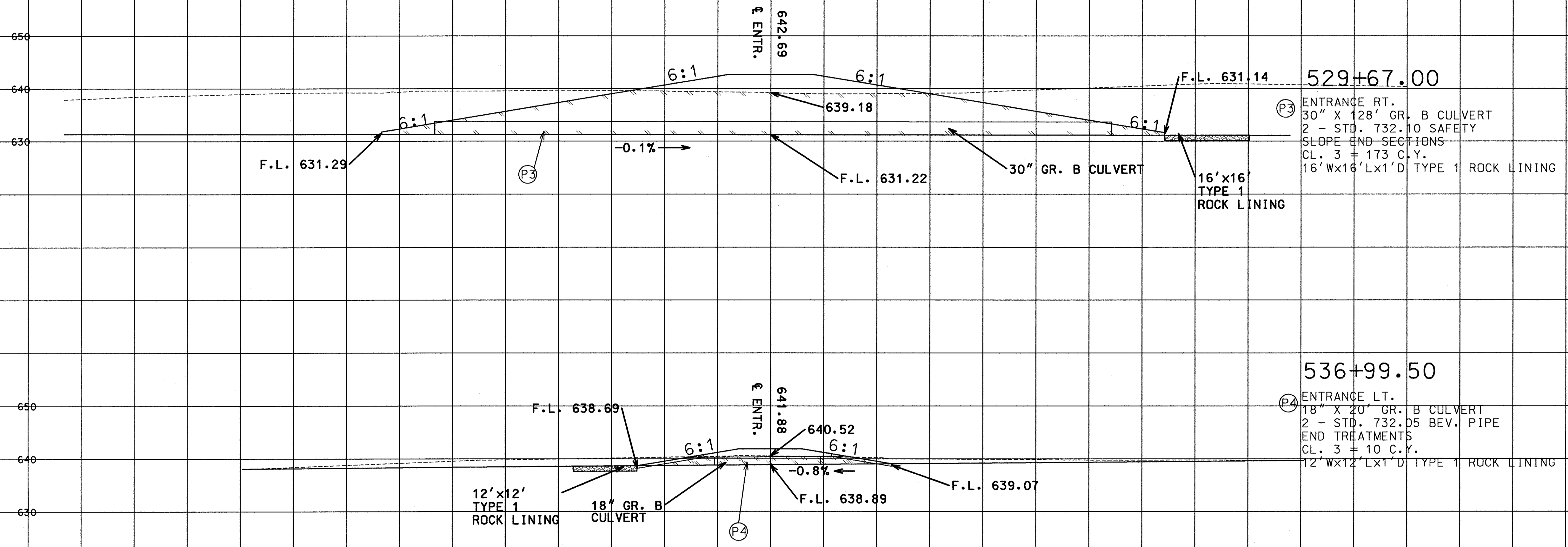
DETAIL NOT TO SCALE



**PAVEMENT MARKING**  
SHEET 1 OF 1



ROUTE	STATE	DISTRICT	SHEET NO.
135	MO	5	14
JOB NO.		J5S0516	
CONTRACT ID.			
PROJECT NO.			
COUNTY	COOPER		
DATE			



ENTRANCE RT.  
 30" X 128' GR. B CULVERT  
 2 - STD. 732.10 SAFETY  
 SLOPE END SECTIONS  
 CL. 3 = 173 C.Y.  
 16' Wx16' Lx1' D TYPE 1 ROCK LINING

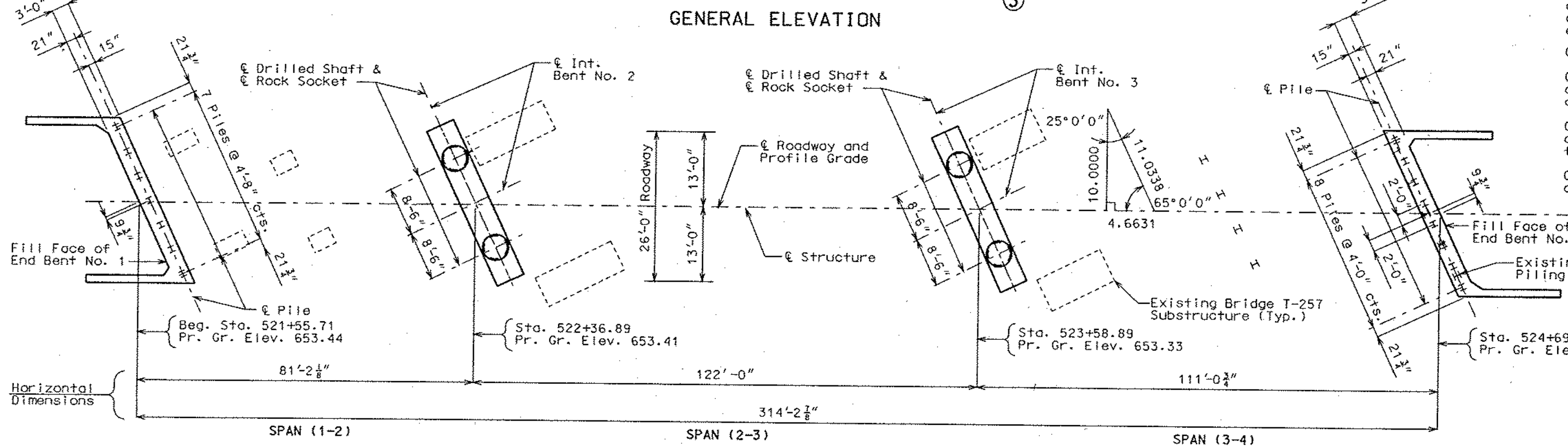
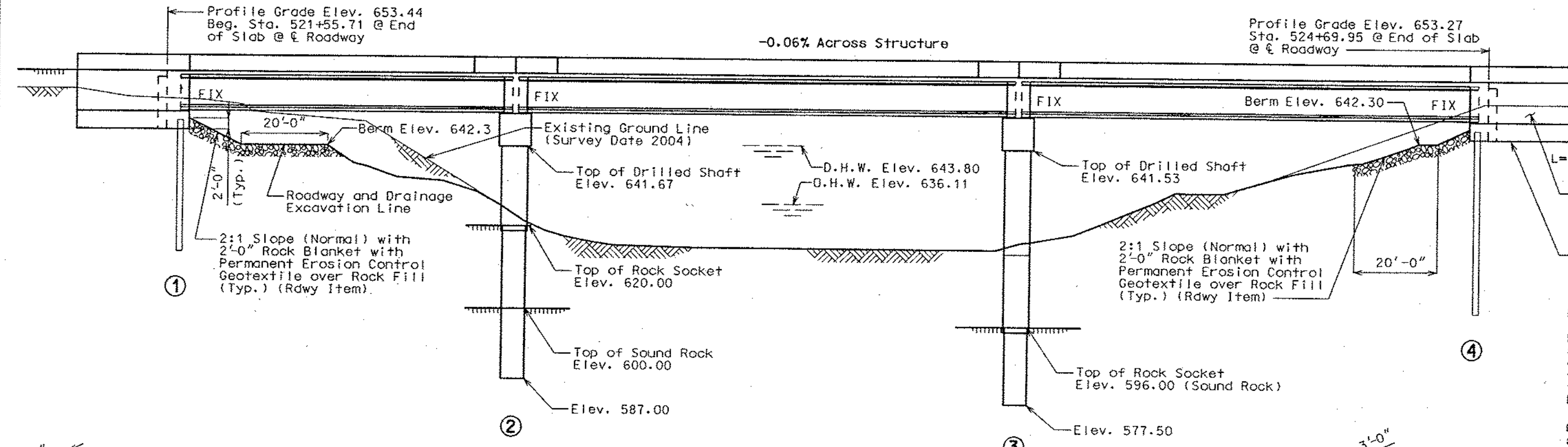
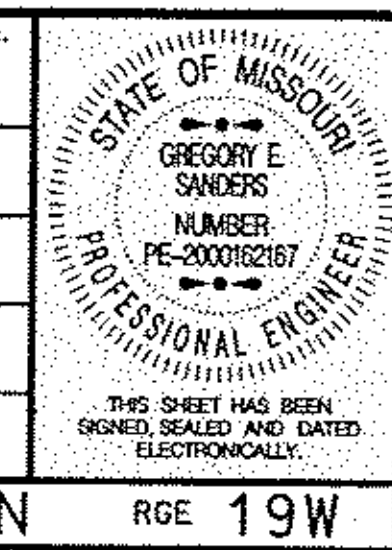
ENTRANCE LT.  
 18" X 20' GR. B CULVERT  
 2 - STD. 732.05 BEV. PIPE  
 END TREATMENTS  
 CL. 3 = 10 C.Y.  
 12' Wx12' Lx1' D TYPE 1 ROCK LINING

CULVERT SECTIONS  
 SHEET 1 OF 1

# MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

(80'-122'-110') PRESTRESSED CONCRETE BULB-TEE GIRDER SPANS

ROUTE <b>135</b>	STATE <b>MO</b>	DISTRICT <b>BR</b>	SHEET NO. <b>1</b>
JOB NO. <b>J5S0516</b>			
CONTRACT ID.			
PROJECT NO.			
COUNTY <b>COOPER</b>			
SEC/SUR <b>5</b>	TWP <b>46N</b>	RGE <b>19W</b>	



⊙ Indicates location of borings.

**Notice and Disclaimer Regarding Boring Log Data**

The locations of all subsurface borings for this structure are shown on the bridge plan sheet for this structure. Boring data for the numbered locations is shown on sheet no. 3. The boring data for all locations indicated, as well as any other boring logs or other factual records of subsurface data and investigations performed by the department for the design of the project, is available from the Project Contact upon written request as outlined in the Project Special Provisions. No greater significance or weight should be given to the boring data depicted on the plan sheets than is subsurface data available from the district or elsewhere.

The Commission does not represent or warrant that any such boring data accurately depicts the conditions to be encountered in constructing this project. A contractor assumes all risks it may encounter in basing its bid prices, time or schedule of performance on the boring data depicted here or those available from the district, or on any other documentation not expressly warranted, which the contractor may obtain from the Commission.

Note:  
For General Notes, Estimated Quantities, Estimated Quantities For Slab on Concrete Bulb-tee Girder, Pile Data, Rock Socket Data, Pay Lengths for each Shaft and Socket, Location Sketch & Hydrologic Data, see sheet no. 2.

BM #2-95 ELEV. 640.26 B. SPIKE IN POWER POLE  
1000' ± SOUTH OF EXISTING BRIDGE OVER LAMINE RIVER,  
220' ± NORTH OF F.E. TO EAST LEFT OF STA. 535+50±  
**BRIDGE OVER LAMINE RIVER**

STATE ROAD FROM ROUTE BB TO ROUTE N  
ABOUT 1.1 MILES SW OF ROUTE N  
PROJECT NO. STA. 521+55.71  
JOB NO. J5S0516 RTE. 135

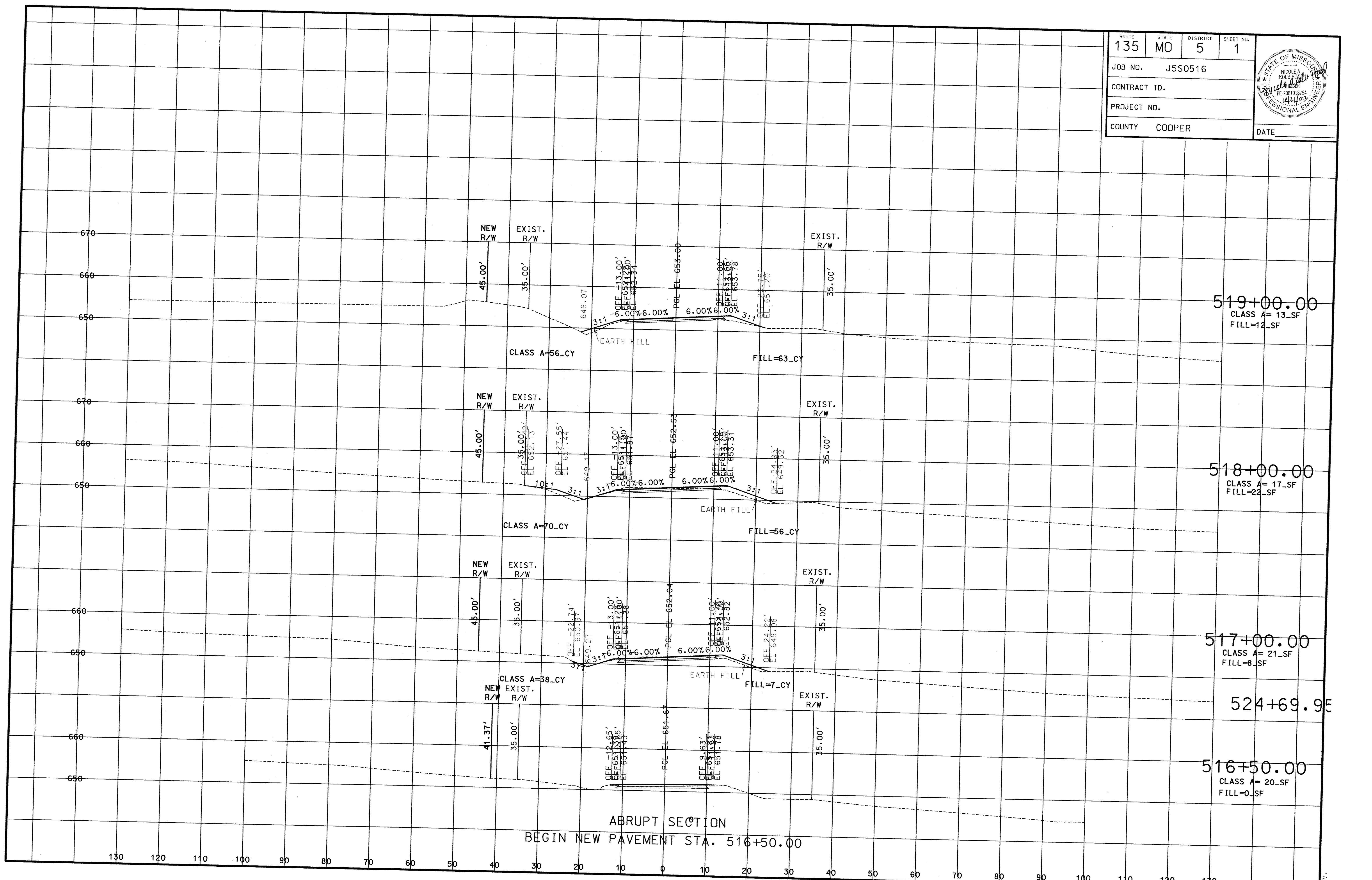
Designed Feb. 2006  
Detailed Dec. 2006  
Checked Feb. 2007

Note: This drawing is not to scale. Follow dimensions. Sheet No. 1 of 31

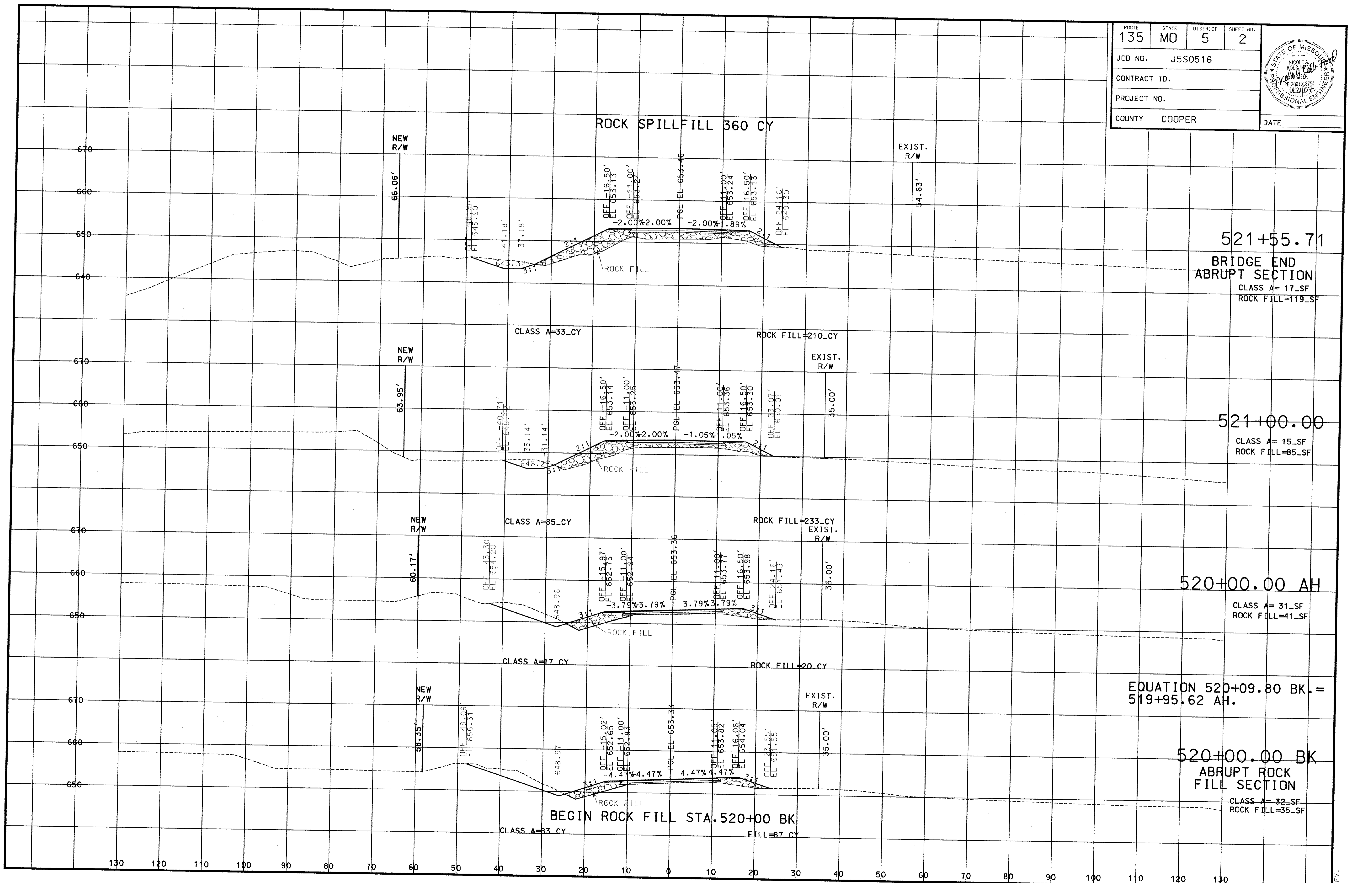
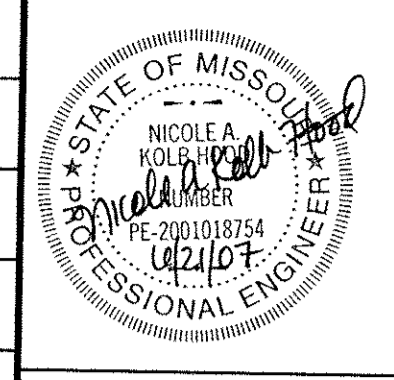
STD. 617.10
STD. 706.35
<b>A7228</b>

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

ROUTE 135	STATE MO	DISTRICT 5	SHEET NO. 1
JOB NO. J5S0516		CONTRACT ID.	
PROJECT NO.		DATE	
COUNTY COOPER			



ROUTE	STATE	DISTRICT	SHEET NO.
135	MO	5	2
JOB NO.		J5S0516	
CONTRACT ID.			
PROJECT NO.			
COUNTY	COOPER		
DATE			



521+55.71  
 BRIDGE END  
 ABRUPT SECTION  
 CLASS A= 17\_SF  
 ROCK FILL=119\_SF

521+00.00  
 CLASS A= 15\_SF  
 ROCK FILL=85\_SF

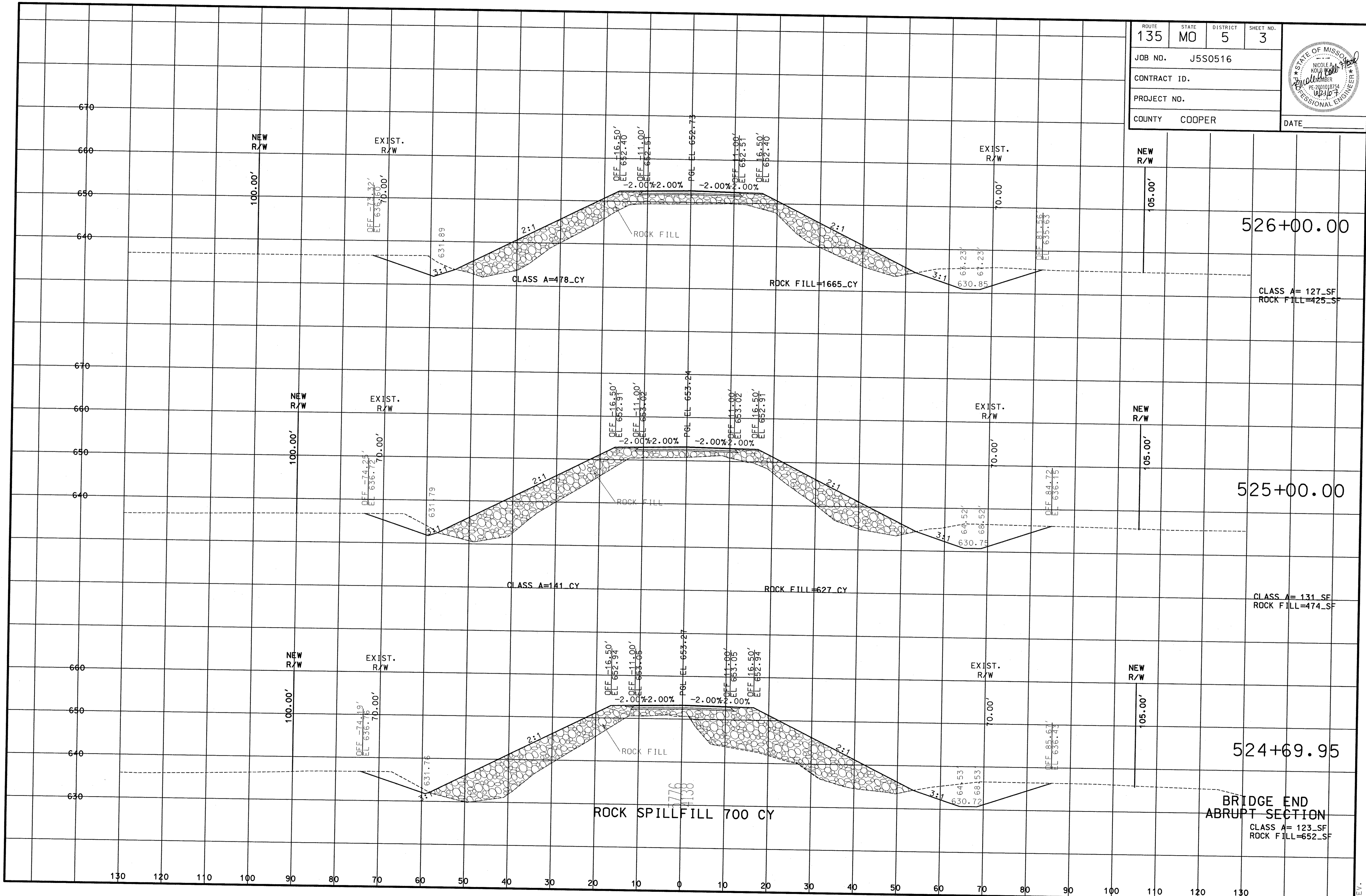
520+00.00 AH  
 CLASS A= 31\_SF  
 ROCK FILL=41\_SF

EQUATION 520+09.80 BK.=  
 519+95.62 AH.

520+00.00 BK  
 ABRUPT ROCK  
 FILL SECTION  
 CLASS A= 32\_SF  
 ROCK FILL=35\_SF

BEGIN ROCK FILL STA. 520+00 BK  
 CLASS A=33\_CY  
 FILL=87\_CY

ROUTE	STATE	DISTRICT	SHEET NO.
135	MO	5	3
JOB NO. J5S0516			
CONTRACT ID.			
PROJECT NO.			
COUNTY COOPER			
			DATE



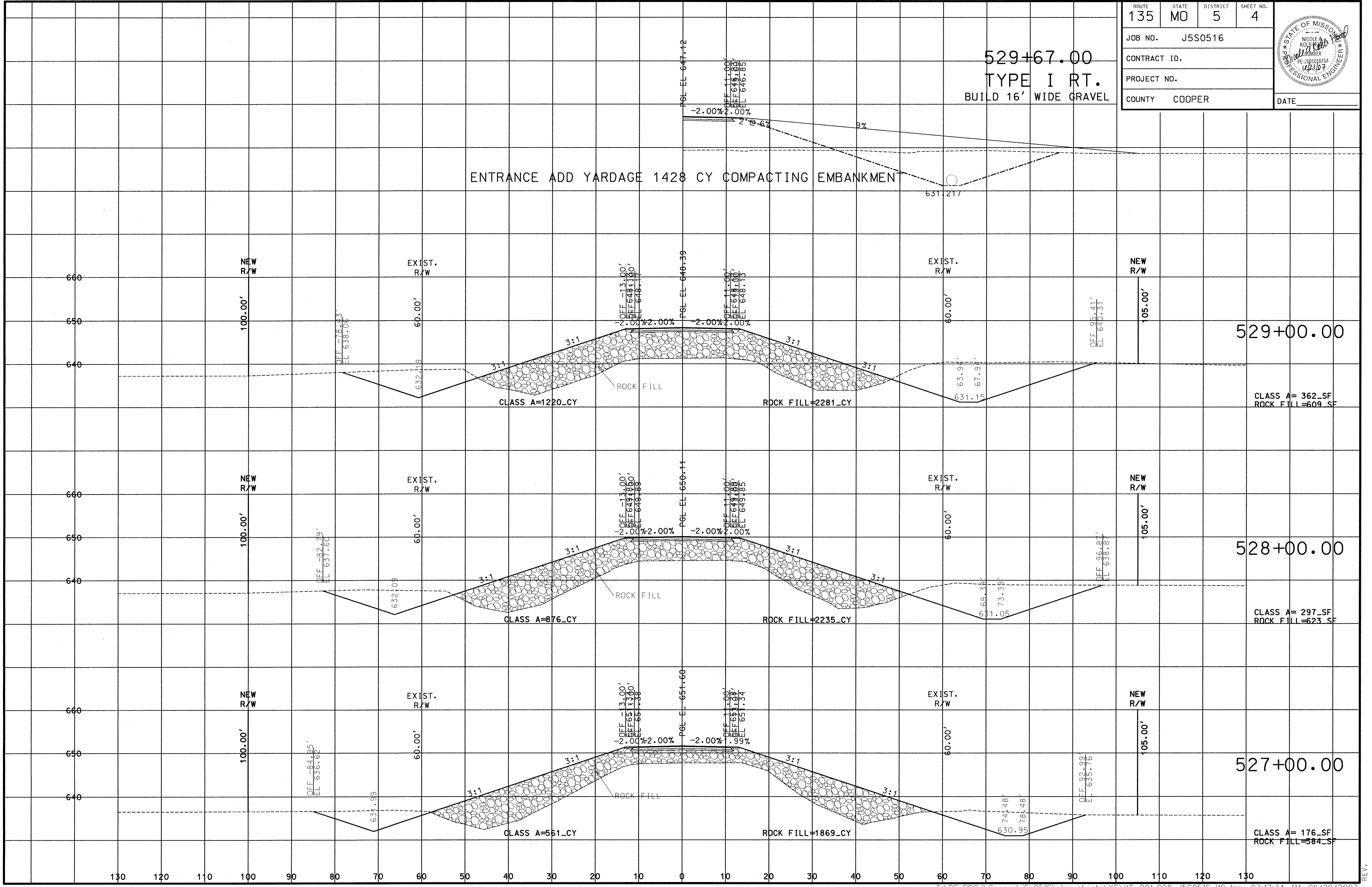
BRIDGE END  
ABRUPT SECTION  
CLASS A= 123\_SF  
ROCK FILL=652\_SF

ROUTE	STATE	DISTRICT	SHEET NO.
135	MO	5	4
JOB NO.		J5S0516	
CONTRACT ID.			
PROJECT NO.			
COUNTY	COOPER		
DATE			

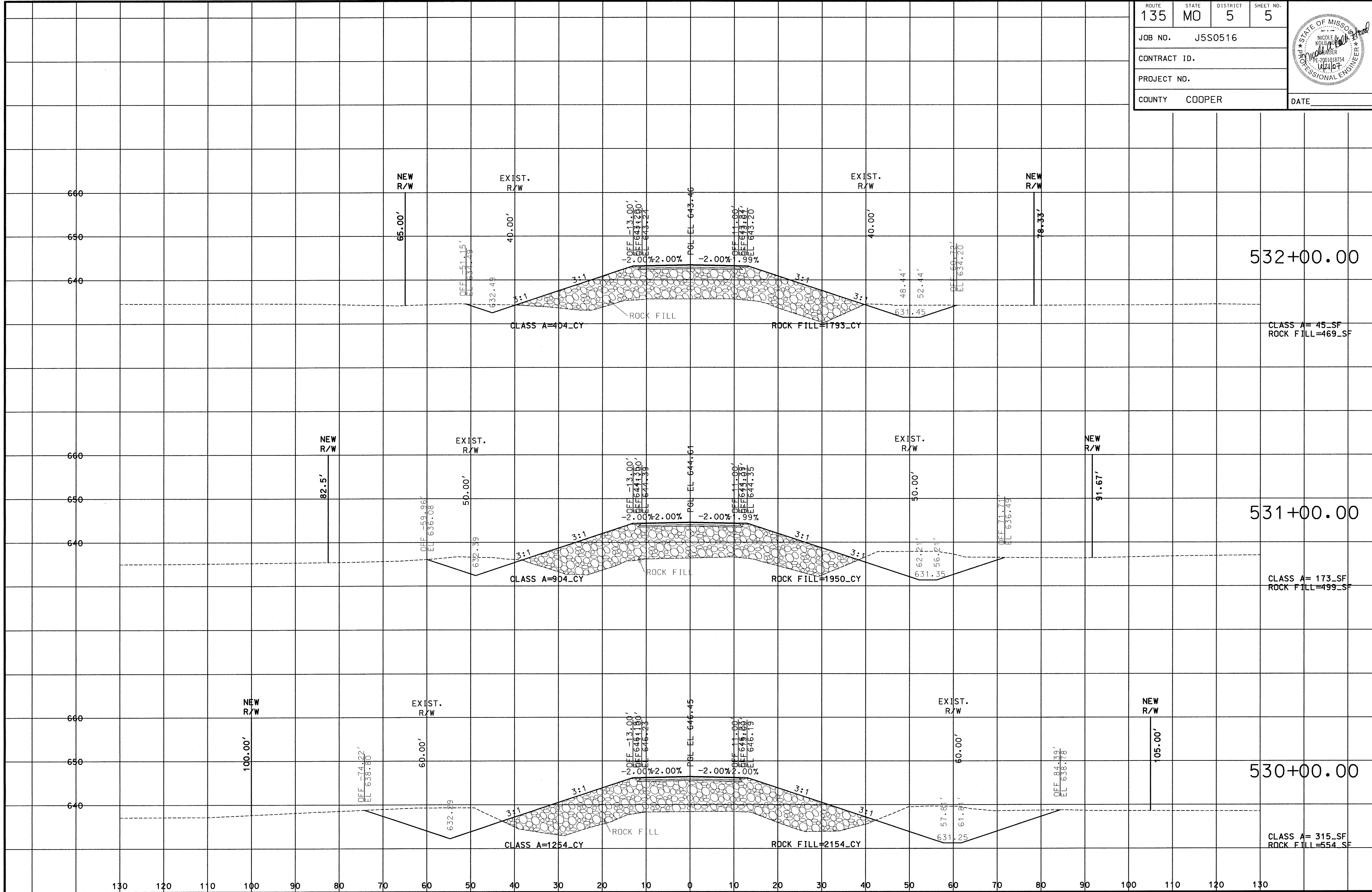
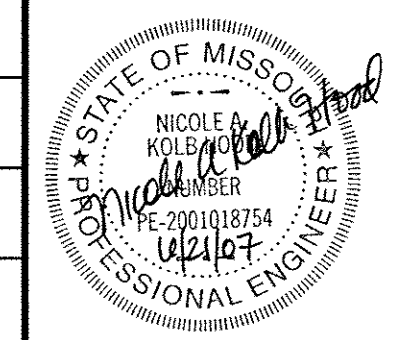


529+67.00  
TYPE I RT.  
BUILD 16' WIDE GRAVEL

ENTRANCE ADD YARDAGE 1428 CY COMPACTING EMBANKMEN



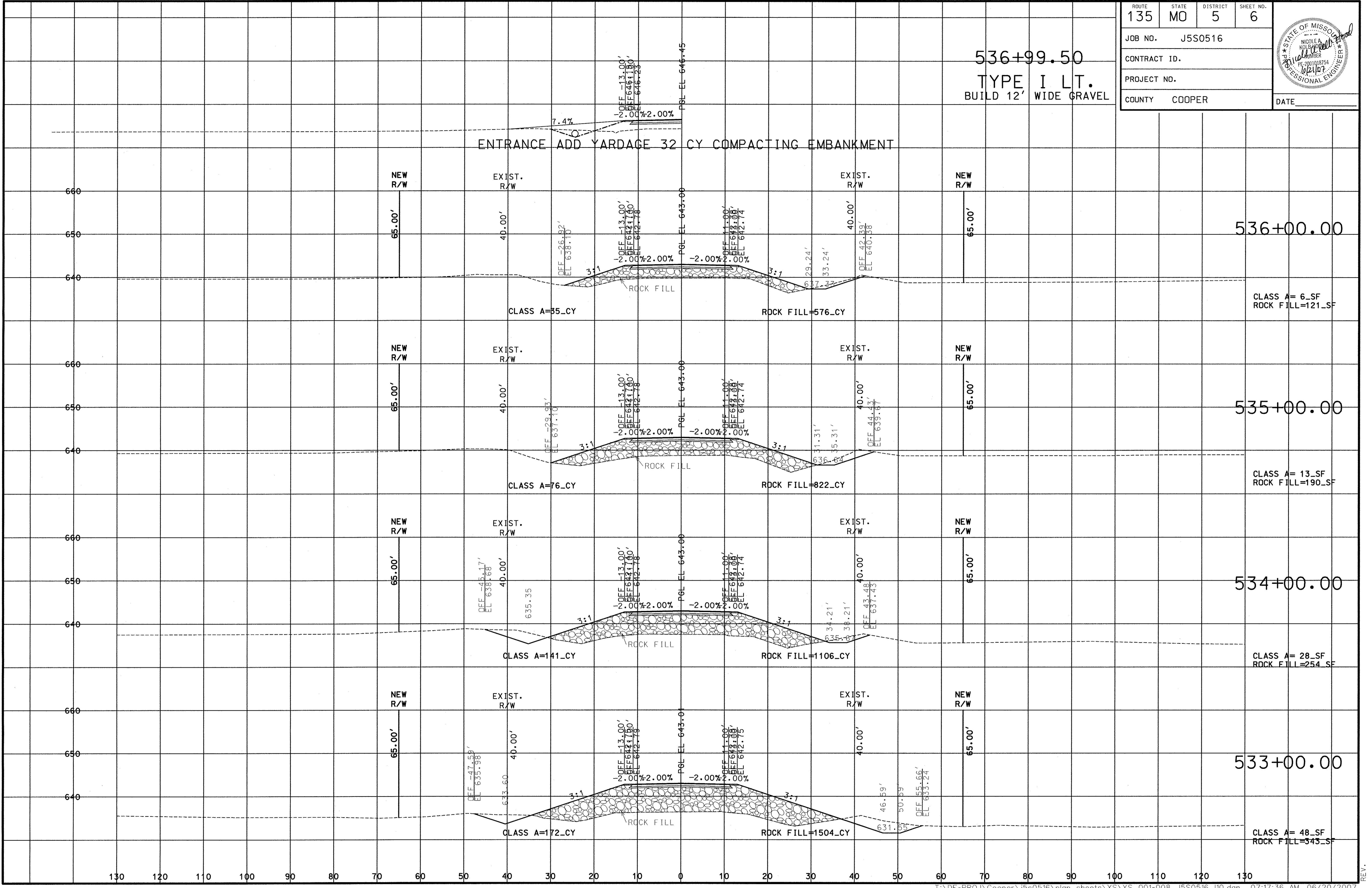
ROUTE	STATE	DISTRICT	SHEET NO.
135	MO	5	5
JOB NO.		J5S0516	
CONTRACT ID.			
PROJECT NO.			
COUNTY	COOPER		DATE



ROUTE	STATE	DISTRICT	SHEET NO.
135	MO	5	6
JOB NO.		J5S0516	
CONTRACT ID.			
PROJECT NO.			
COUNTY	COOPER		
DATE			

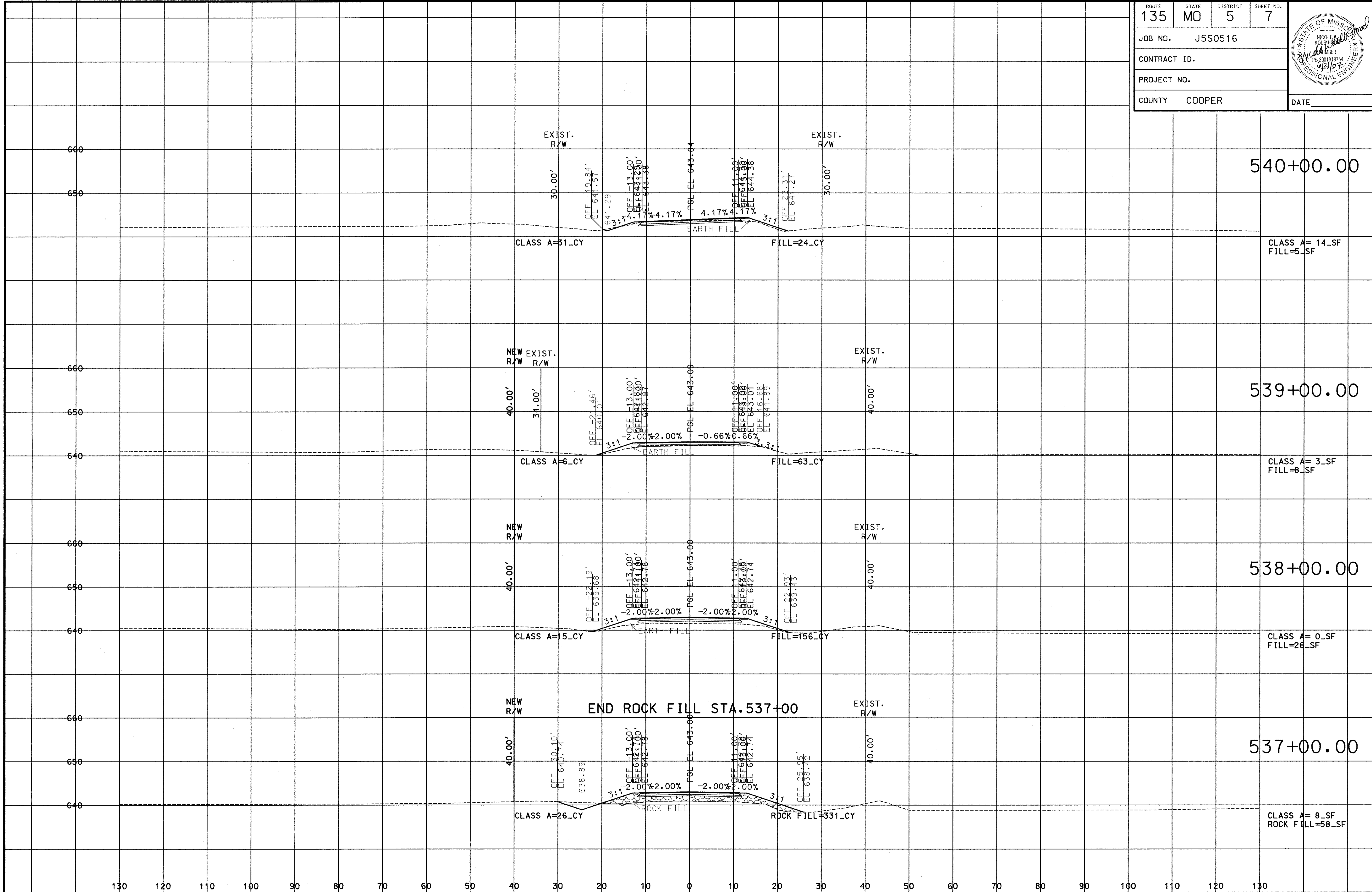


536+99.50  
TYPE I LT.  
BUILD 12' WIDE GRAVEL

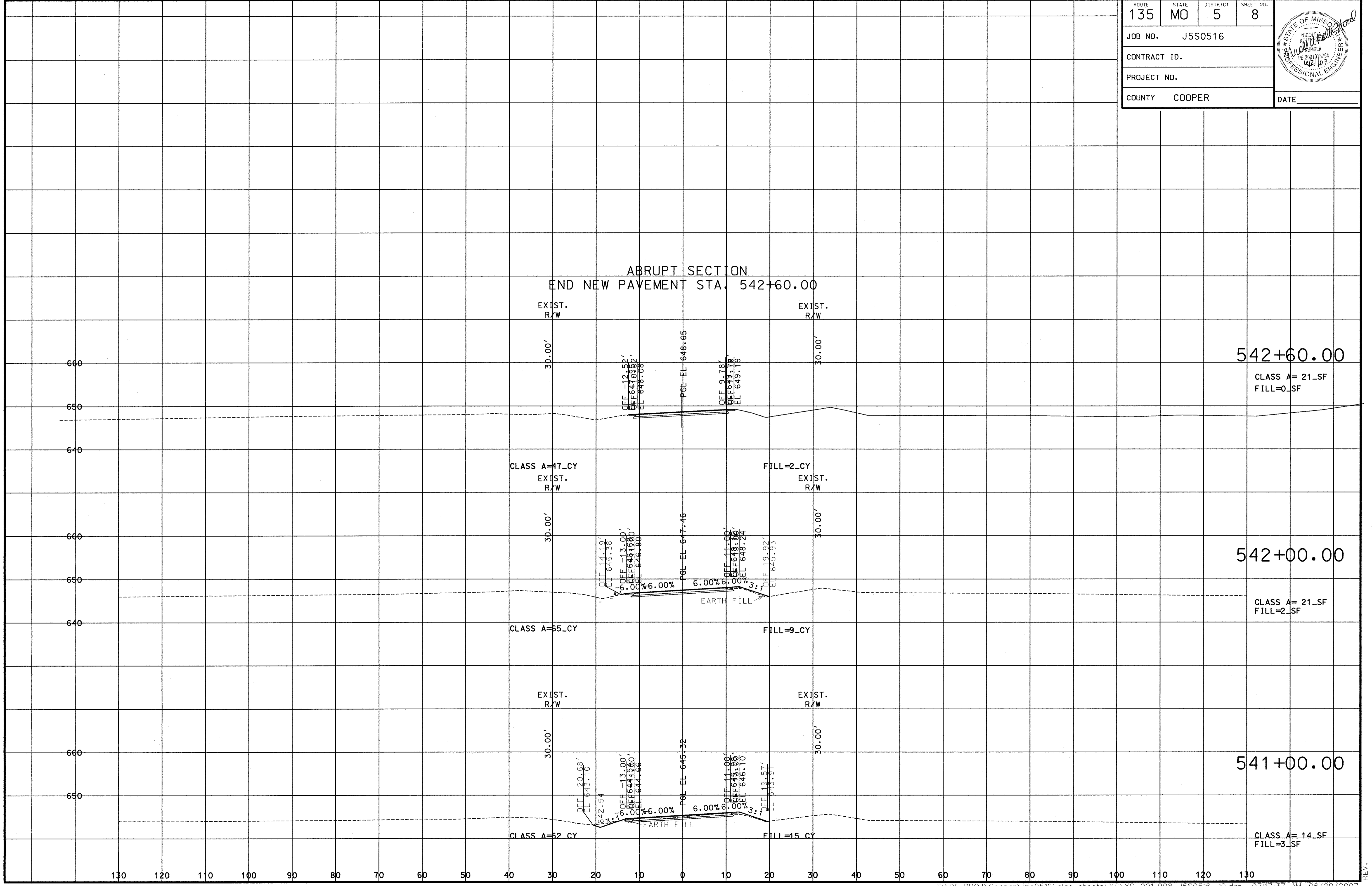




ROUTE 135	STATE MO	DISTRICT 5	SHEET NO. 7
JOB NO. J5S0516		CONTRACT ID.	
PROJECT NO.		COUNTY COOPER	
DATE			



ROUTE 135	STATE MO	DISTRICT 5	SHEET NO. 8
JOB NO. J5S0516		CONTRACT ID.	
PROJECT NO.		DATE	
COUNTY COOPER			



130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130