

Steven L. Beshear Governor

Frankfort, Kentucky 40622 www.transportation.ky.gov/ Michael W. Hancock, P.E. Secretary

November 17, 2010

CALL NO. 100

CONTRACT ID NO. 101338

ADDENDUM # 2

Pike County, APD 80-6 (27) Subject:

Letting November 19, 2010

(1) Revised - Plan Sheets - R2a, R2c, R2e, R2f, R5, R8, R13, R14, R18a, R27,

R27a, R27d, R27e, R27f, R27g, R27h, R49, & R49g

(2) Revised - Table of Contents - Page 2 of 160

- Special Note for Fuel Adjustment - Page 25(a) of 160

(4) Deleted - Special Provision - Page 26 of 160

(5) Revised - CAP - Page 69 of 160

(6) Revised - Bid Items - Pages 155-160 of 160

Proposal revisions are available at http://transportation.ky.gov/contract/. Plan revisions are available at http://www.lynnimaging.com/kytransportation/.

If you have any questions, please contact us at 502-564-3500.

Sincerely,

Ryan Griffith

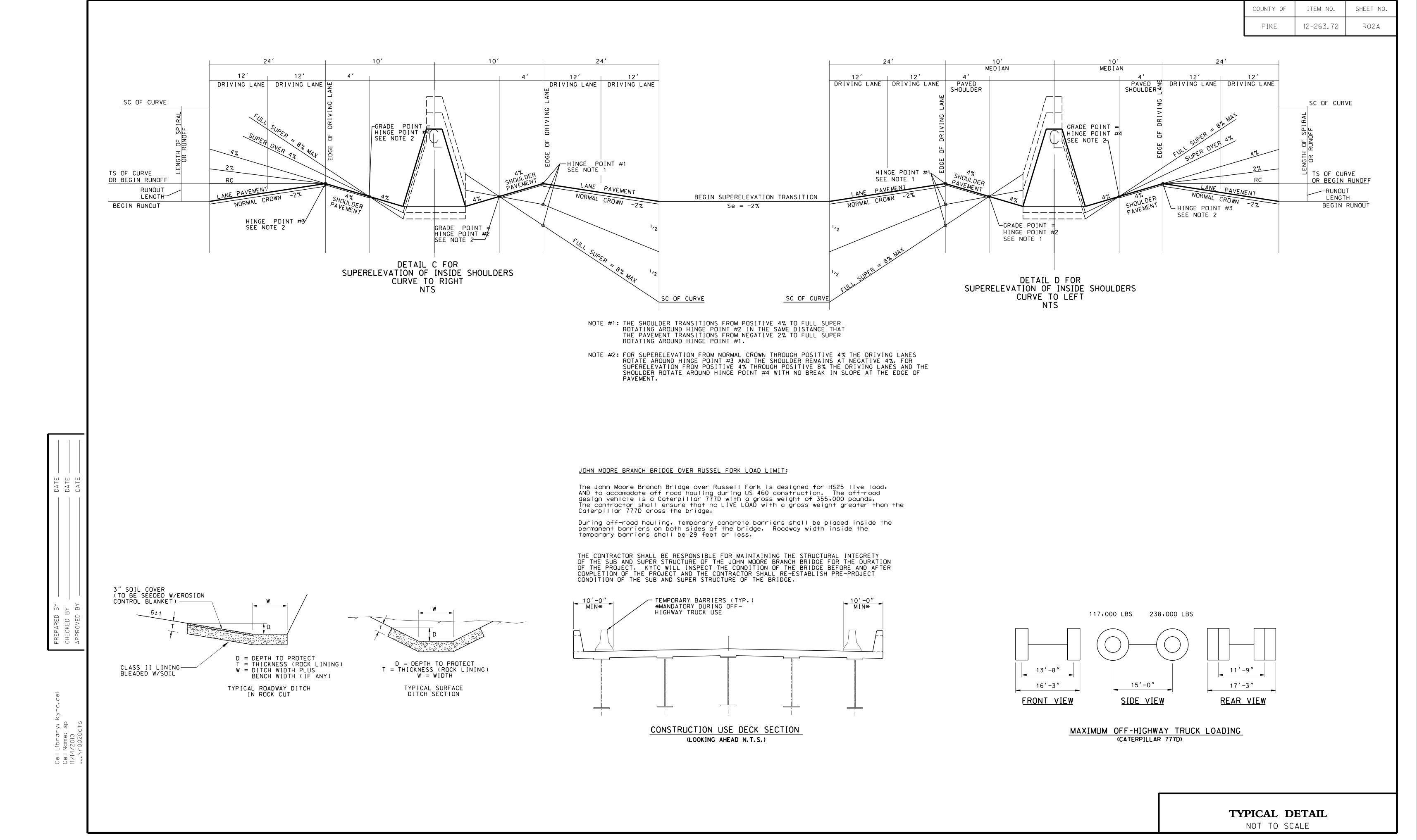
Director

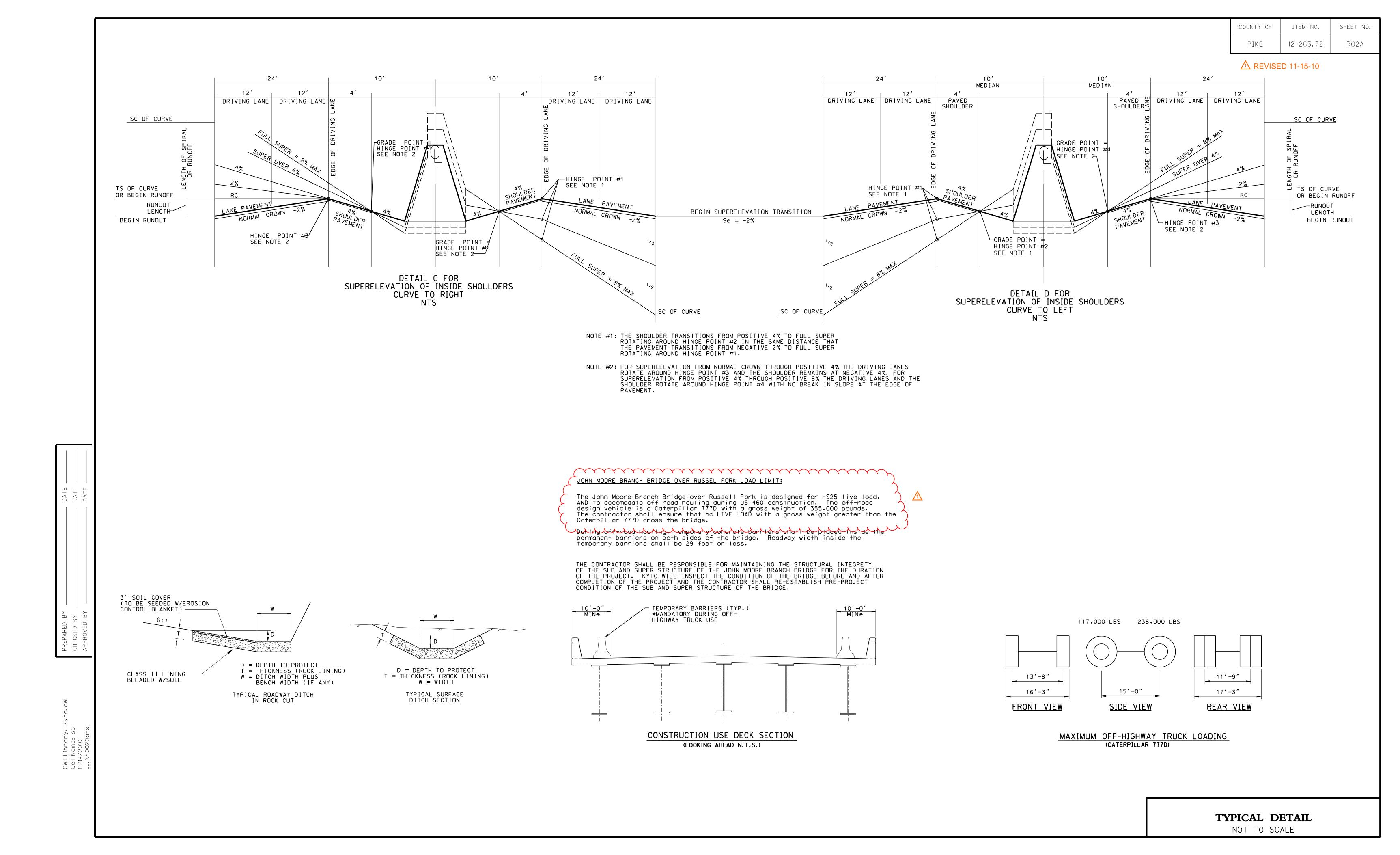
Division of Construction Procurement

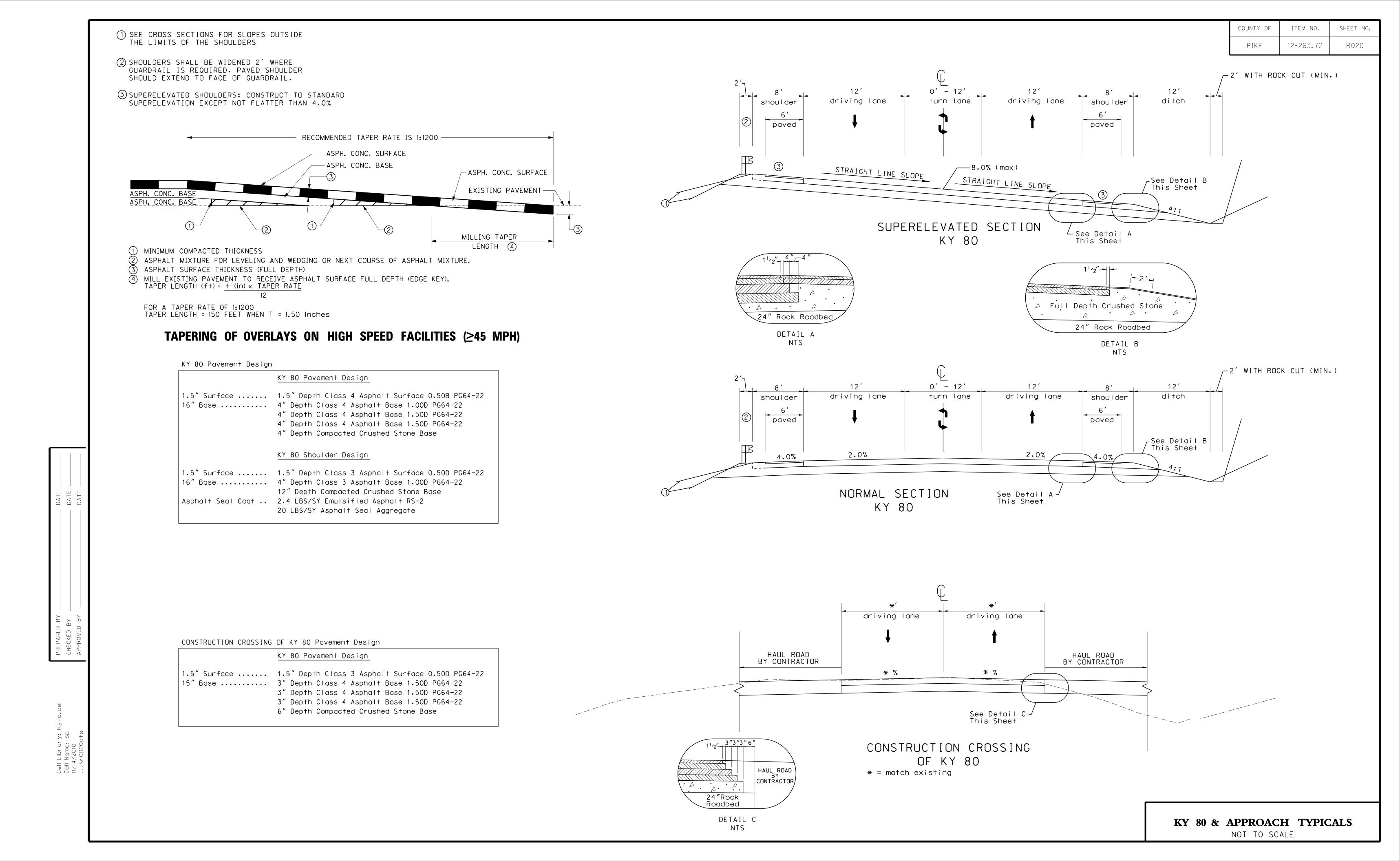
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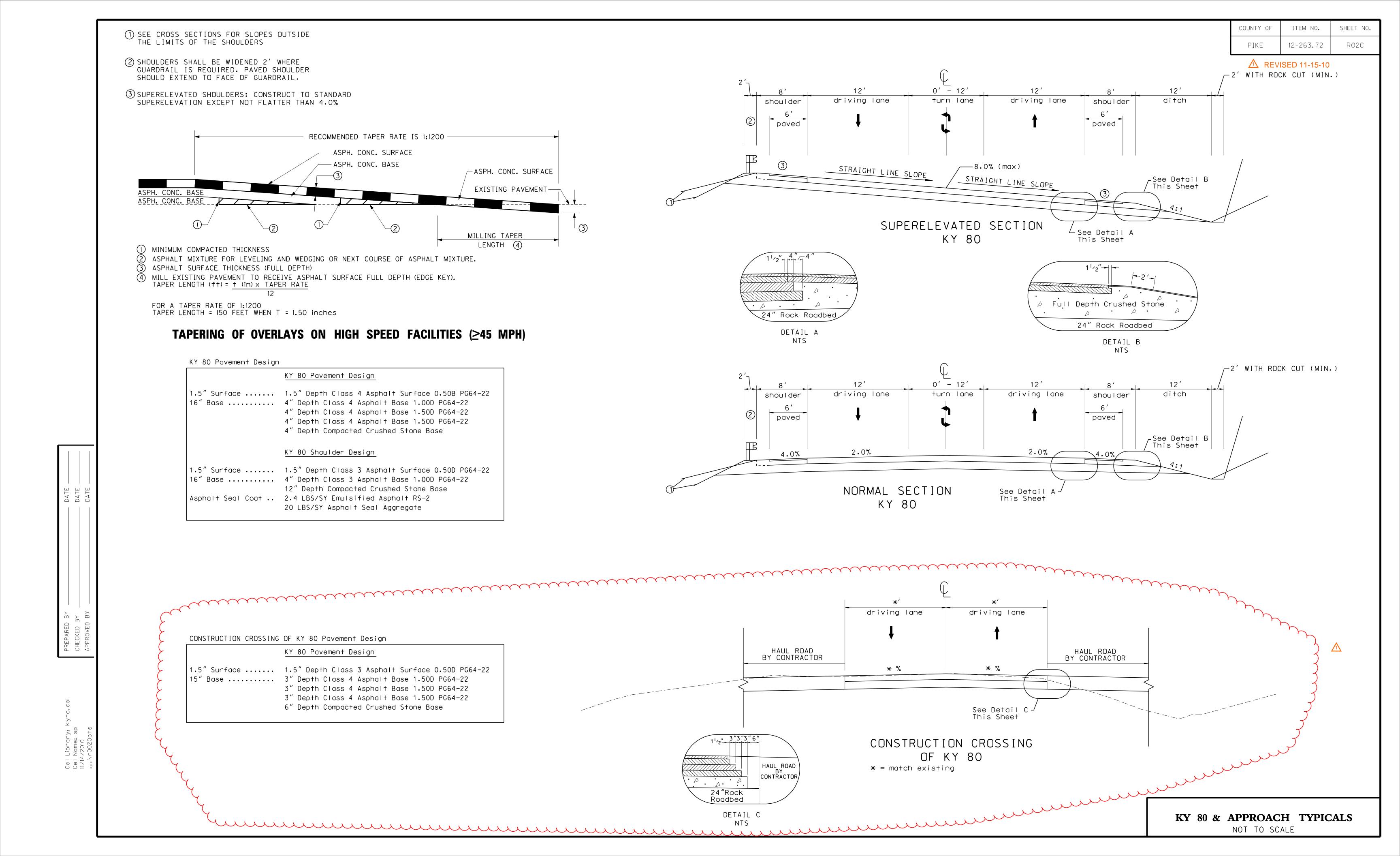
Enclosures











GENERAL SUMMARY

COUNTY OF	ITEM NO.	SHEET NO.
PIKE	12-263.72	RO2E

ITEM CODE	ITEM	UNIT	MAINLINE US 460	RAMP 1	KY 80	JOHN MOORE BRANCH	TOTAL
78	CRUSHED AGGREGATE SIZE NO 2	TON	0	0	2	0	2
1982	DELINEATOR FOR GUARDRAIL-WHITE	EACH	0	0	11	0	11
2014	BARRICADE-TYPE III	EACH	0	0	14	0	14
2159	TEMP DITCH	LIN FT	-	-	-	-	18163
2200	ROADWAY EXCAVATION	CU YD	2812911	2859362	449683	1898	6123854
2242	WATER	M GAL	0	0	200	0	200
2262	FENCE-WOVEN WIRE TYPE 1	LIN FT	8124 0	1410	2318 3775	0	11852
2351 2360	GUARDRAIL-STEEL W BEAM-S FACE GUARDRAIL TERMINAL SECTION NO 1	EACH	0	0	4	0	3775 4
2367	GUARDRAIL END TREATMENT TYPE 1	EACH	0	0	4	0	4
2429	RIGHT-OF-WAY MONUMENT TYPE 1	EACH	23	4	15	0	42
2431	WITNESS R/W MONUMENT TYPE 2	EACH	2	0	1	0	3
2432	WITNESS POST	EACH	23	4	15	0	42
2488	CHANNEL LINING CLASS IV	CU YD	112	123	898	13400	14533
2545	CLEARING AND GRUBBING	LP SUM	-	-	-	-	1
2562	SIGNS	SQ FT	0	0	474	0	474
2568	MOBILIZATION	LP SUM	-	-	_	-	
2569 2585	DEMOBILIZATION EDGE KEY	LP SUM LIN FT	- 0	0	<u> </u>	0	44
2600	FABRIC GEOTEXTILE TY IV FOR PIPE	SQ YD	4666	518		814	6779
2650	MAINTAIN AND CONTROL TRAFFIC	LP SUM	-	-	-	_	1
2651	DIVERSIONS (BY-PASS DETOURS)	LP SUM	-	_	_	-	1
2653	LANE CLOSURE	EACH	0	0	2	0	2
2671	PORTABLE CHANGEABLE MESSAGE SIGN	EACH	0	0	3	0	3
2701	TEMP SILT FENCE	LIN FT	-	-	-	-	18163
2703	SILT TRAP TYPE A	EACH	-	-	-	-	291
2704	SILT TRAP TYPE B	EACH	-	-	-	-	291
2705 2706	SILT TRAP TYPE C	EACH EACH		-	-	-	291 1746
2706	CLEAN SILT TRAP TYPE A CLEAN SILT TRAP TYPE B	EACH		_		-	1746
2708	CLEAN SILT TRAP TYPE C	EACH	_	_	_	_	1746
2709	CLEAN TEMP SILT FENCE	LIN FT	-	-	-	_	18163
2726	STAKING	LP SUM	-	-	-	-	1
2775	ARROW PANEL	EACH	0	0	2	0	2
3171	CONCRETE BARRIER WALL TYPE 9T	LIN FT	60	0	1000	1560	2620
4772	HPS LUMINAIRE OFFSET	EACH	0	0	3	0	3
4933	TEMP SIGNAL 2 PHASE	EACH	0	0	3	0	3
5950	EROSION CONTROL BLANKET	SQ YD	<u>-</u>	-	-	-	262660
5952 5953	TEMP MULCH TEMP SEEDING AND PROTECTION	SQ YD SQ YD		-	-	_	1409408
5966	TOPDRESSING FERTILIZER	TON	_	_	_	_	72.94
5985	SEEDING AND PROTECTION	SQ YD	-	_	_	_	1318207
5989	SPECIAL SEEDING CROWN VETCH	SQ YD	-	_	_	-	343440
6510	PAVE STRIPING-TEMP PAINT-4 IN	LIN FT	0	0	32102	0	32102
6514	PAVE STRIPING-PERM PAINT-4 IN	LIN FT	0	0	14008	0	14008
6568	PAVE MARKING-THERMO STOP BAR-24IN	LIN FT	0	0	48	0	48
8100	CONCRETE-CLASS A	CU YD	-	-	-	-	12.55
8150	STEEL REINFORCEMENT	LB	-	-	-	-	700
10020NS 10030NS	FUEL ADJUSTMENT	DOLL	<u>-</u>	-	-	-	896341
20667ED	ASPHALT ADJUSTMENT PNEUMATIC BACKSTOWING	DOLL TON	400	300	0	0	28700 700
2570	PROJECT CPM SCHEDULE	LS	400	300	U		1
23131ER701	PIPELINE VIDEO INSPECTION	LIN FT	_	_	-	-	917
2542	CEMENT	TON	5	4	-	-	9
2690	SAFELOADING	CU YD	-	43	_	-	43

EARTHWORK TO	IALS
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EMBANKMENT ______ 5309409 CU YD ROADWAY EXCAVATION _____ 6123854 CU YD (A)

(A) ROADWAY EXCAVATION INCLUDES:

(B) COMMON EXCAVATION INCLUDES:

 EXCAVATION
 893830 CU YD

 DITCH LEFT
 886 CU YD

 DITCH RIGHT
 86 CU YD

- 1) FOR CONTROLLING DUST CAUSED BY MAINTAINING TRAFFIC ONLY.
- ② APPROXIMATELY 291 ACRES
- 3 TEMPORARY SIGNS FOR MAINTENANCE OF TRAFFIC
- 4 FOR WRAPPING PIPE TRENCH BACKFILL
- © CONTRACTOR IS HEREBY NOTIFIED OF THE HOMES AND ASSOCIATED STRUCTURES IN THE CLOSE PROXIMITY OF CONSTRUCTION AS DEPICTED ON PLAN SHEETS. THE CONTRACTOR SHALL USE ALL NECESSARY PRECAUTIONARY METHODS TO INSURE THE SAFETY OF THE RESIDENTS AND THEIR PROPERTY IN THIS VICINITY DURING THE PROSECUTION OF ANY AND ALL WORK IN AND AROUND THIS AREA.
- © ALL EXCESS MATERIAL RESULTING FROM ROADWAY EXCAVATION SHALL BE PLACED IN THE JOHN MOORE BRANCH WASTE AREA. FOR ADDITIONAL INFORMATION REFER TO GEOTECHNICAL NOTES SHEET R49 IN THE CONTRACT PLANS
- 7 PIPE IS INCIDENTAL TO 20667ED.
- QUANTITY CARRIED OVER FROM PIPE DRAINAGE SUMMARY.
- INCLUDES EARTHWORK RECALCULATED BY CENTROID METHOD AT INTERSECTION OF US460 (STA 759+00 TO STA 763+50) AND RAMP 1 (STA 214+00 TO STA 218+12.55).
- 10 FOR PNEMATIC BACKSTOWING SEE GEOTECHNICAL NOTES 20 & 21 (SHEET R49).

GENERAL SUMMARY

Cell Name: sp 11/14/2010 ...\r0020esu

COUNTY OF	ITEM NO.	SHEET NO.
PIKE	12-263.72	RO2E

						<u> </u>	<u> </u>]	⚠ REVISED 11-15-10
									<u> </u>		
ITEM CODE	ITEM	UNIT	MAINLINE	RAMP 1	KY 80	JOHN MOORE			TAL		
CODE	I I □IVI		US 460	NAIVIE I	KI OU	BRANCH			T0_ R0,		
				<u> </u>	<u> </u>	<u> </u>	<u> </u>				
78	CRUSHED AGGREGATE SIZE NO 2	TON	0	0	2	0			2		
1982	DELINEATOR FOR GUARDRAIL-WHITE	EACH	0	0	11	0			11		
2014	BARRICADE-TYPE III	EACH	0	0	14	0			14		
2159	TEMP DITCH TO THE TO TH				•		· · · · · · · · · · · · · · · · · · ·			1)	
9 2200 D 2242	ROADWAY EXCAVATION WATER WATER	CU YD	2812911	2859362	449683	1898			6123854	(A) 3	
2262	FENCE-WOVEN WIRE TYPE 1	LIN FT	8124	1410	2318	0			11852		
2351	GUARDRAIL-STEEL W BEAM-S FACE	LIN FT	0	0	3775	0			3775	<u>EARTHWORK TOTALS</u>	\triangle
2360	GUARDRAIL TERMINAL SECTION NO 1	EACH	0	0	4	0			4	EMBANKMENT	5309409 CU YD
2367	GUARDRAIL END TREATMENT TYPE 1	EACH	0	0	4	0			4	ROADWAY EXCAVATION	6123854 CU YD (A)
2429 2431	RIGHT-OF-WAY MONUMENT TYPE 1 WITNESS R/W MONUMENT TYPE 2	EACH EACH	23	4	15	0			42	(A) ROADWAY EXCAVATION INCLUD	DES:
2432	WITNESS POST	EACH	23	4	15	0			42		894802 CU YD (B) خ
2488	CHANNEL LINING CLASS IV	CU YD	112	123	898	13400			14533		5227030 CU YD
② 2545	CLEARING AND GRUBBING	LP SUM	-	-	_	-			1		2022 CU YD
③ 2562	SIGNS	SQ FT	0	0	474	0			474		2
2568 2569	MOBILIZATION DEMORILIZATION	LP SUM	-	-	-	-			1	(B) COMMON EXCAVATION INCLUDE	· \
2585	DEMOBILIZATION EDGE KEY	LP SUM	 O	0	44	0			44	EXCAVATION DITCH LEFT	893830 CU YD 886 CU YD
4 2600	FABRIC GEOTEXTILE TY IV FOR PIPE	SQ YD	4666	518	781	814			6779		86 CU YD
2650	MAINTAIN AND CONTROL TRAFFIC	LP SUM	-	-	_	-			1		}
2651	DIVERSIONS (BY-PASS DETOURS)	LP SUM		-	-	-			1		$\mathcal{L}_{\mathbf{q}}$
2653	LANE CLOSURE	EACH	0	0	2	0			2		Tum
2671 2701	PORTABLE CHANGEABLE MESSAGE SIGN TEMP SILT FENCE	EACH LIN FT	<u> </u>	-	3 -	0 -			18163		
2703	SILT TRAP TYPE A	EACH		_	_				291		
2704	SILT TRAP TYPE B	EACH	_	_	_	_			291		
2705	SILT TRAP TYPE C	EACH	-	-	-	-			291		
2706	CLEAN SILT TRAP TYPE A	EACH	_	_	_	-			1746		
2707 2708	CLEAN SILT TRAP TYPE B CLEAN SILT TRAP TYPE C	EACH EACH	-	-	-	-			1746 1746		
2709	CLEAN TEMP SILT FENCE	LIN FT		_					18163		
2726	STAKING	LP SUM	-	-	_	-			1		
2775	ARROW PANEL	EACH	0	0	2	0			2	TO FOR CONTROLLING DUST CAUS	ED BY MAINTAINING TRAFFIC ONLY.
3171	CONCRETE BARRIER WALL TYPE 9T	LIN FT	60	0	1000	1560			2620	② APPROXIMATELY 291 ACRES	
4772	HPS LUMINAIRE OFFSET	EACH EACH	0	0	3	0			3		ENIANCE OF TRAFFIC
4933 5950	TEMP SIGNAL 2 PHASE EROSION CONTROL BLANKET	SQ YD	<u> </u>	-	<u> </u>	-			262660	3 TEMPORARY SIGNS FOR MAINT	
5952	TEMP MULCH	SQ YD	-	-	-	_			1409408	FOR WRAPPING PIPE TRENCH E	
5953	TEMP SEEDING AND PROTECTION	SQ YD	-	-	-	-			1409408	© CONTRACTOR IS HEREBY NOTIF	FIED OF THE HOMES AND ASSOCIATED PROXIMITY OF CONSTRUCTION AS DEPICTED ON OR SHALL USE ALL NECESSARY PRECAUTIONARY
5966	TOPDRESSING FERTILIZER	TON	-	-	-	-			72.94	PLAN SHEETS. THE CONTRACT	OR SHALL USE ALL NECESSARY PRECAUTIONARY
5985	SEEDING AND PROTECTION	SQ YD	-	-	_	_			1318207	METHODS TO INSURE THE SAFT IN THIS VICINITY DURING THE	ETY OF THE RESIDENTS AND THEIR PROPERTY PROSECUTION OF ANY AND ALL WORK IN AND
5989 6510	SPECIAL SEEDING CROWN VETCH PAVE STRIPING-TEMP PAINT-4 IN	SQ YD LIN FT	 O	- 0	32102	-			343440 32102	AROUND THIS AREA.	
6514	PAVE STRIPING-PERM PAINT-4 IN	LIN FT	0	0	14008	0			14008	6 ALL EXCESS MATERIAL RESULT	TING FROM ROADWAY EXCAVATION SHALL RE BRANCH WASTE AREA. FOR ADDITIONAL
6568	PAVE MARKING-THERMO STOP BAR-24IN	LIN FT	0	0	48	0			48	INFORMATION REFER TO GEOTE	ECHNICAL NOTES SHEET R49 IN THE
8100	CONCRETE-CLASS A	CU YD	_	-	-	-			12.55	CONTRACT PLANS	
8 8150	STEEL REINFORCEMENT		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			<u> </u>	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		7 PIPE IS INCIDENTAL TO 2066	7ED.
10020NS 10030NS	FUEL ADJUSTMENT ASPHALT ADJUSTMENT	DOLL	-	-	-	-			896341 28700	│ │ │ ⊗ QUANTITY CARRIED OVER FROM	
9 20667EB	PNEUMATIC BACKSTOWING	THE POLL OF THE PROPERTY OF TH	400	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	tugue !	tu t	Luu			9 INCLUDES EARTHWORK RECALCI	JLATED BY CENTROID METHOD AT INTERSECTION OF
2570	PROJECT CPM SCHEDULE	LS							1	US460 (STA 759+00 TO STA	763+50) AND RAMP 1 (STA 214+00 TO STA 218+12.55).
2313IER701	PIPELINE VIDEO INSPECTION	LINET						· · · · · · · · · · · · · · · · · · ·	777	FOR PNEMATIC BACKSTOWING	SEE GEOTECHNICAL NOTES 20 & 21(SHEET R49).
2542	CEMENT	TON	5	4	-	-			9	Jummen 1	minimum J
2690	SAFELOADING	CU YD		43	-	-			43		
				~~~~	µ 	~~~~	~~~~	mm			CENTEDAT CHIMANADA

EARTHWORK TOTALS	\triangle
EMBANKMENT	5309409 CU YD
ROADWAY EXCAVATION	6123854 CU YD (A)
A) ROADWAY EXCAVATION INCLUDES:	
COMMON EXCAVATION	894802 CU YD (B)
ROCK EXCAVATION (S.R.)	5227030 CU YD
EMBANKMENT BENCH	2022 CU YD
TRANSVERSE BENCH	O CU YD
	\(\frac{1}{2}\)
B) COMMON EXCAVATION INCLUDES:	
EXCAVATION	893830 CU YD
DITCH LEFT	886 CU YD
DITCH RIGHT	86 CU YD -
	>

- 1 FOR CONTROLLING DUST CAUSED BY MAINTAINING TRAFFIC ONLY.
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- 10 FOR PNEMATIC BACKSTOWING SEE GEOTECHNICAL NOTES 20 & 21 (SHEET R49).

GENERAL SUMMARY

COUNTY OF ITEM NO. SHEET NO.

PIKE 12-263.72 RO2F

ASPH SURF ASPH SURF ASPH SURF SPH BASE 1.	PAVING AREAS	CONSTRUCTION CROSSING OF KY 80 ENTRANCES © DETOUR "1" TIE-IN FROM EX. KY 80 TO PROP. KY 80	S Q U A R E Y A R D	PG64-22 10730 0 511 2340 0 0 0 0 267 (7) 0 PG64-22 0 0 0 0 967 0 0 967 0 0	PG64-22 0 0 0 0 993 0 0 PG64-22 10812 0 517 1873 0 0 0	OD PC64-22 (5) O PC64-	11257 0 566 2050 1041 0 286 (7)	E 4) 0 4168 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2552 0 0 0 255	0 0 0 2552 0 0 0 2552	KY 80 KY 80 SHOULDERS	ONE BASE (1) TON 2589 6234 130 472 239 197 (9) 98	EAL AGGREGATE (2) TON 0 0 0 0 0 0 51 51 BASE 1.50D PG64-22 TON 4904 0 238 863 0 136 0 6142	SE 1.00D PG64-22 TON 0 917 0 0 0 0 0 0 0 0	1.00D PG64-22 TON 2379 0 114 546 0	3ASE 0.75D PG64-22 TON 0 0 0 219 0 219 0 219 219 219 219 219 219 219 219 219 219	ASPHALI KS-2 O 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	URF 0.50D PG64-22	URF 0.50B PG64-22 TON 885 0 42 193 0 0 0 0 112				
		<u> </u>		ASPH SURF 0.50B PG64- ASPH SURF 0.50D PG64- ASPH SURF 0.38D PG64-	BASE 0.75D PG64-22 BASE 1.00D PG64-22	BASE 1.00D PG64-22 BASE 1.00D PG64-22 BASE 1.50D PG64-22 BASE 1.50D PG64-22		(4)	AGGREGATE	HALT RS-2	TEM	D STONE BASE	SPHALT SEAL AGGREGATE L4 ASPH BASE 1.50D PG64-22	3 ASPH BASE 1,000 PG64-22	L4 ASPH BASE 1.00D PG64-22	L2 ASPH BASE 0.75D PG64-22 T	MULSIFIEU ASPHALI RS-Z S T T T T T T T T T T T T	LZ ASPH SURF 0.58D PG64-22 L3 ASPH SURF 0.50D PG64-22	L4 ASPH SURF 0.50B PG64-22				

NOTES

ALL ASHALT MIXTURES SHALL BE ESTIMATED AT 110 LBS. PER SQ. YD. PER INCH OF DEPTH, UNLESS NOTED OTHERWISE.

- 1) ESTIMATED AT 115 LBS. PER SQ. YD. PER INCH OF DEPTH.
- ② ESTIMATED AT 19.9 LBS. PER SQ. YD.
 (TWO APPLICATIONS)
- 3 ESTIMATED AT 2.4 LBS. PER SQ. YD. (TWO APPLICATIONS)4 THE FULL DEPTH CRUSHED STONE BASE
- AREA HAS BEEN CALCULATED USING AN AVERAGE DEPTH OF 12 INCHES.

 (5) THIS COARSE IS USED FOR THE LEVELING & WEDGING REQUIRED TO TIE THE DETOUR
- TO EXISTING KY 80 AND IS ESTIMATED AT AN AVERAGE DEPTH OF 5 INCHES FOR 200 LINEAR FEET OF DETOUR.

 (6) KY 80 STA 68+50 (RT) KY 80 STA 71+81.50 (RT) KY 80 STA 73+00 (RT)
- KY 80 STA 81+50 (RT)
 JOHN MOORE BRANCH STA 50+00 (260'LT)

 THE AREAS FOR THE CONSTRUCTION
 CROSSING OF KY 80 ARE ESTIMATED ON A

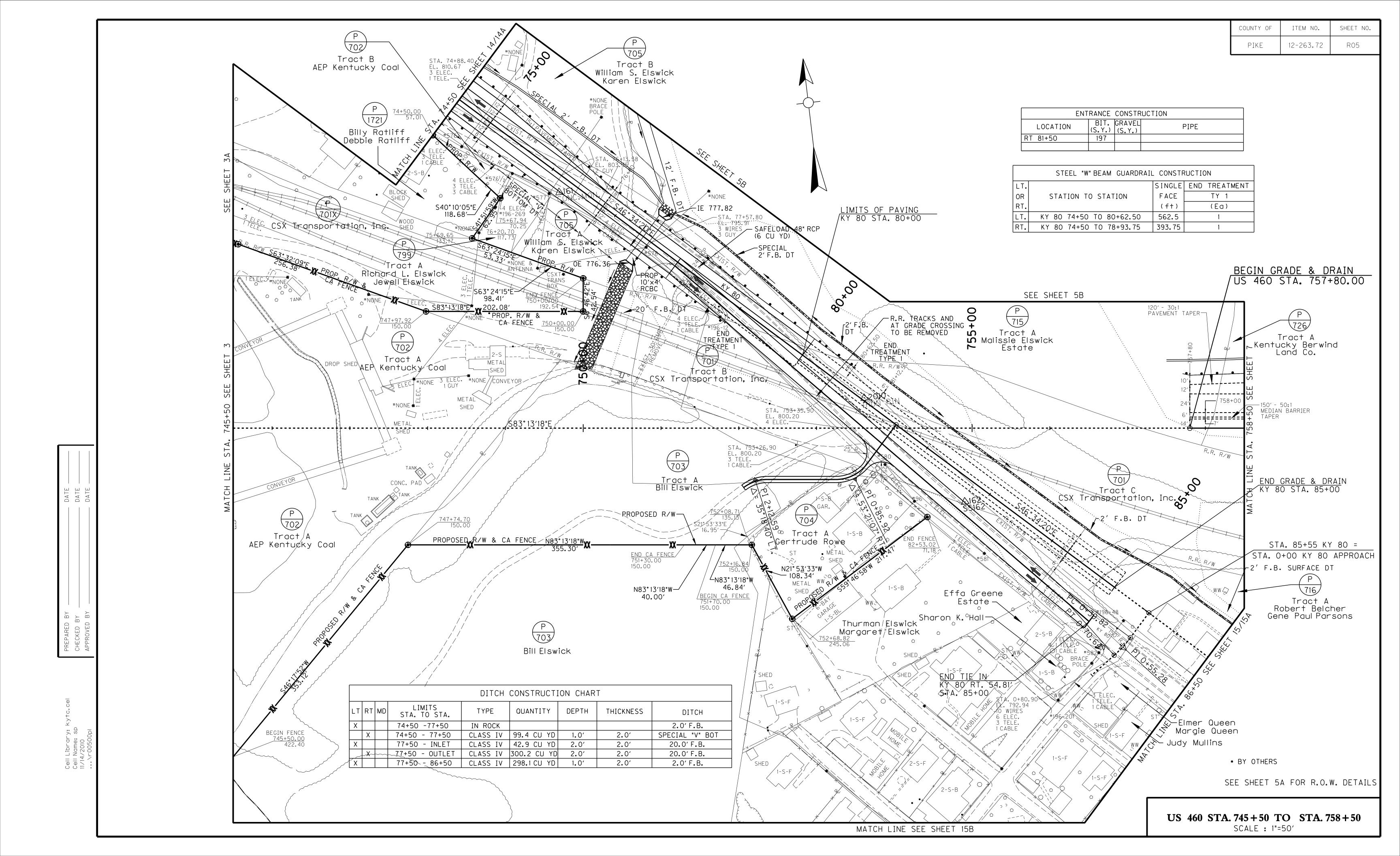
LENGTH OF 100 LINEAR FEET OF CROSSING.

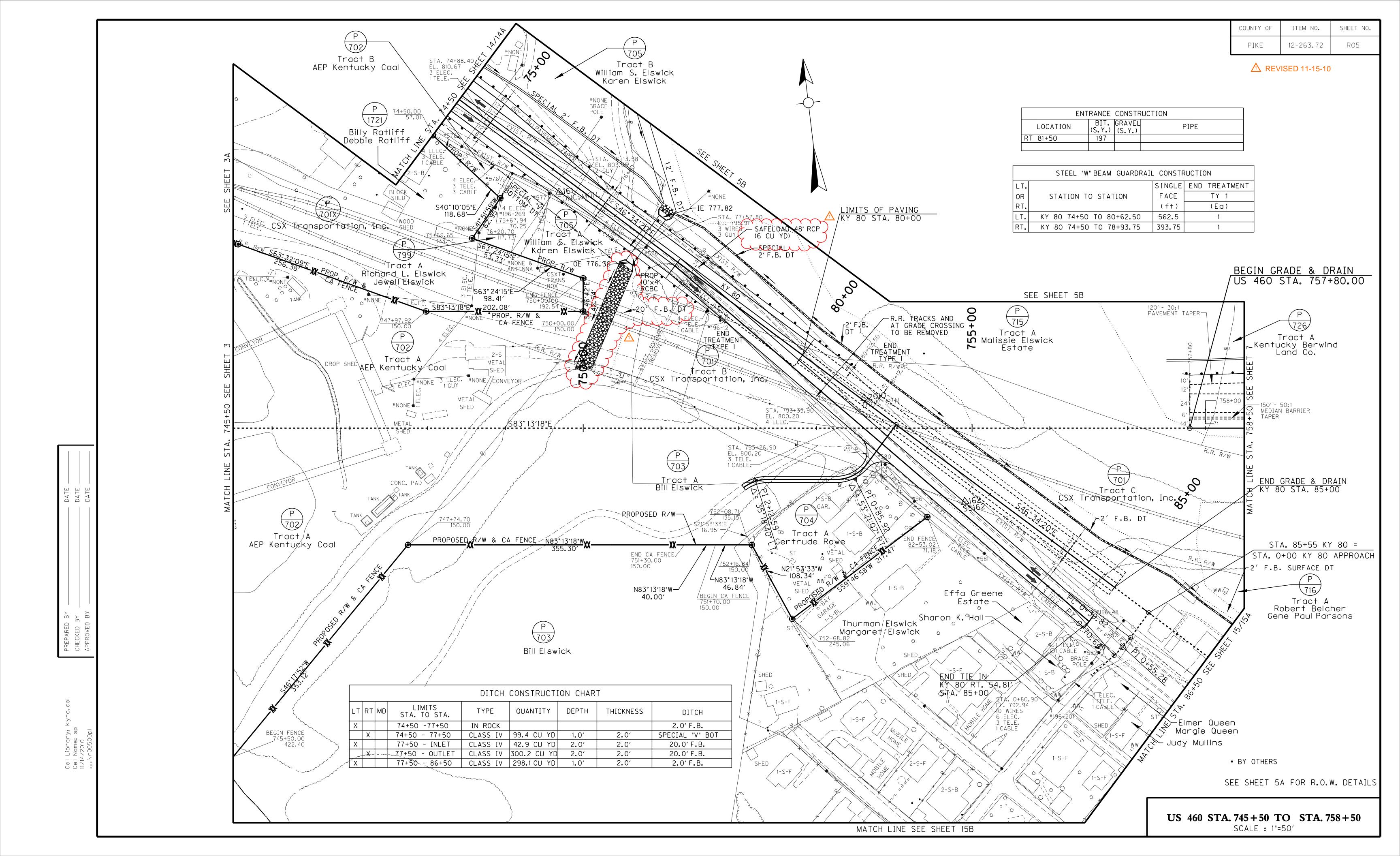
KY 80 STA 74+22 (RT)

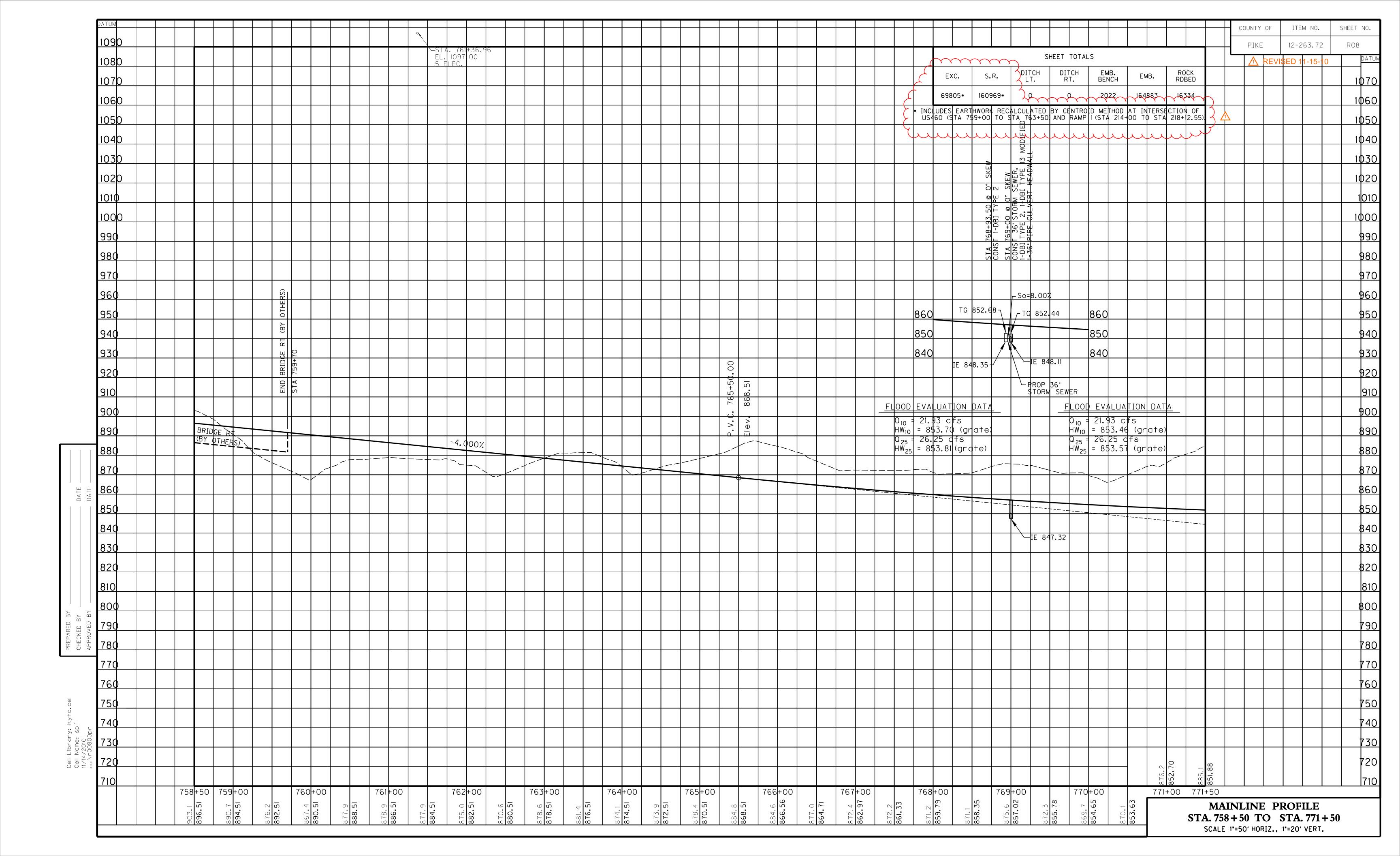
- 8 THE QUANTITY OF ASPHALT SURFACE HAS BEEN CALCULATED BASED ON THREE COARSES BEING REQUIRED DURING THE DURATION OF THE PROJECT.
- 9 THE QUANTITY FOR CRUSHED STONE BASE HAS BEEN DOUBLED FOR APPLICATION TO ROCK ROAD BED.

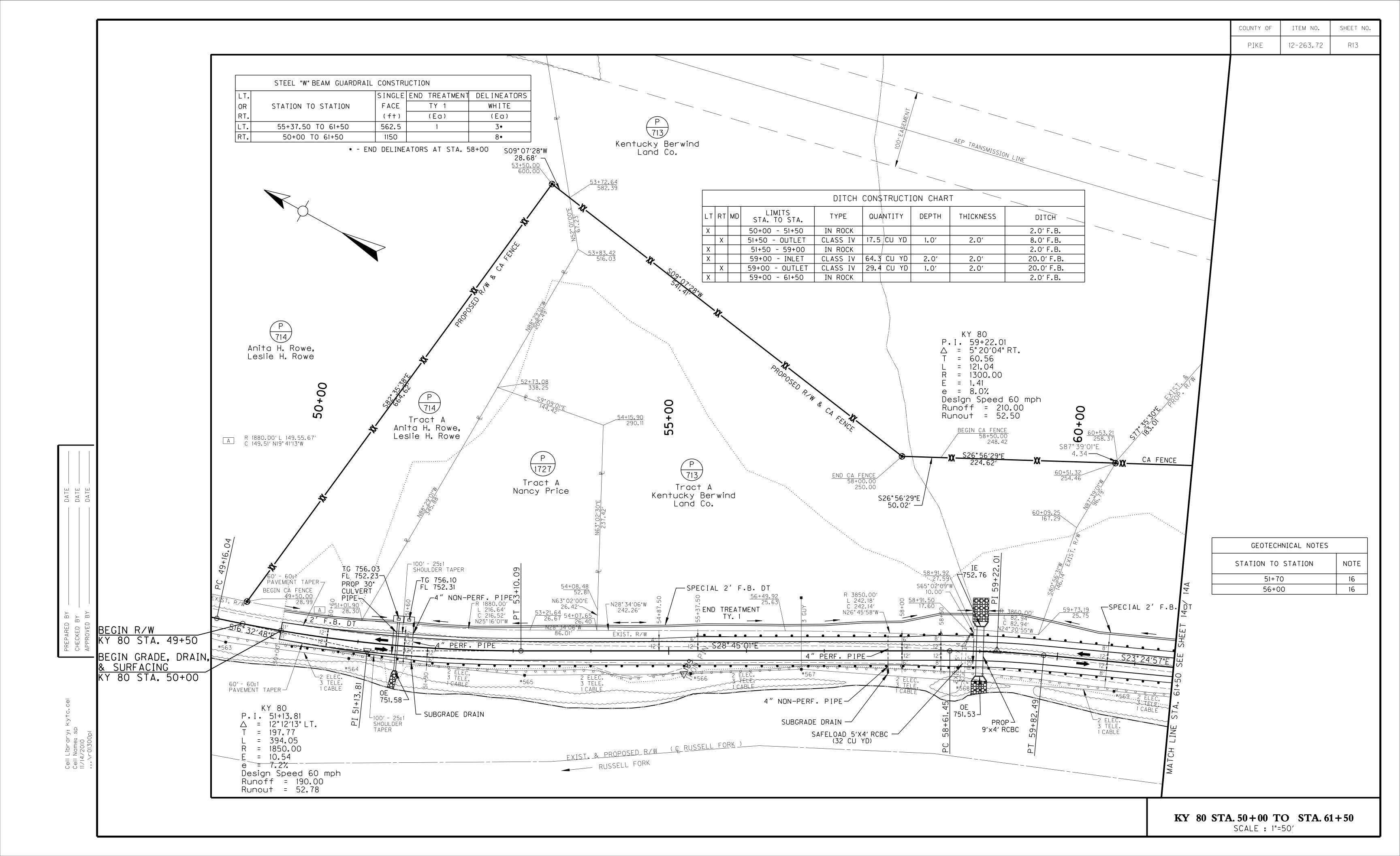
PAVING SUMMARY

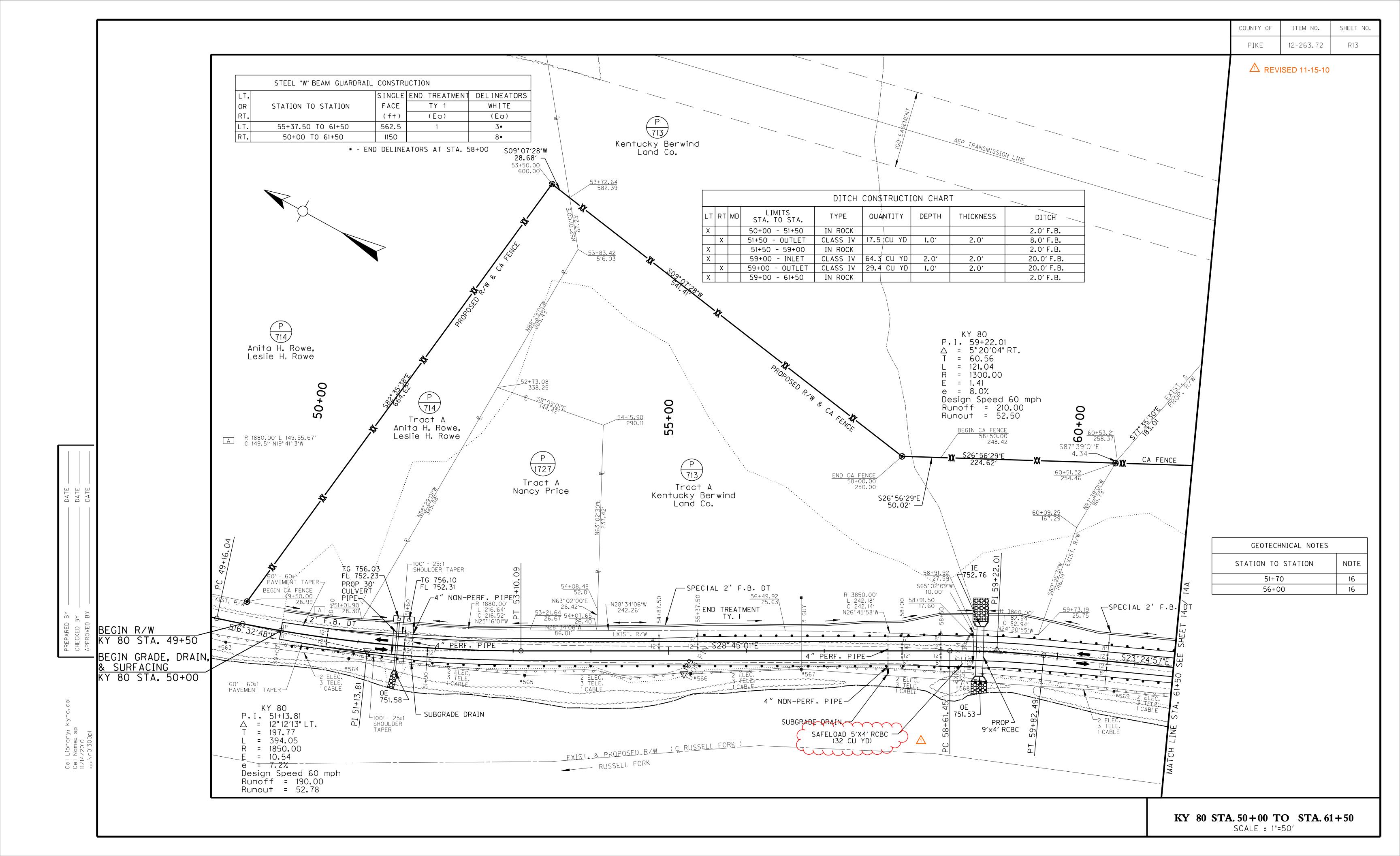
								COUNTY OF ITEM NO. SHEET NO.
								PIKE 12-263.72 R02F
								⚠ REVISED 11-15-10
	TOTAL	\$3581 1968 967	993 3202 489 4168 825	4914 286 4168 41867	2552	TOTAL	9862 9862 51 51 6142 6142 6142 6143 6143 6143 6143 6144 6145 6145 6145 6146 6147	
	PROJECT					PROJECT		
		<u>~</u>	}	3				
			1 2 3					
		4						
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		*						
6	CONSTRUCTION CROSSING	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0		CONSTRUCTION CROSSING	66 30 6 139 30 0 0 0 0 6 8 9 3 0 0 0 0 0 6 8 9 3 0 0 0 0 0 6 8 9 3 0 0 0 0 0 6 8 9 3 0 0 0 0 0 0 6 8 9 3 0 0 0 0 0 0 6 8 9 3 0 0 0 0 0 0 6 8 9 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	OF KY 80				<u> </u>	OF KY 80		
	ENTRANCES	000				ENTRANCES	\frac{\fracc}{\fracc}\frac{\frac}}}}}}{\frac}}}}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac}}}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac}\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac}	
	6							
١	DETOUR "1"	2340	1873 489	5050		DETOUR	412 42 42 445 60 163 163 163	
<	1			1 2 3		TIE-IN FROM		NOTES
	EX. KY 80 TO PROP.		517	9990		TO PROP.		ALL ASHALT MIXTURES SHALL BE
(KY 80 KY 80	ω				>		ESTIMATED AT 110 LBS. PER SQ. YD. PER INCH OF DEPTH, UNLESS NOTED OTHERWISE.
	KY 80 SHOULDERS	0 0 0	0 0 0 0	0 0 4486	25 25	SHOULDERS	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	(1) ESTIMATED AT 115 LBS. PER SQ. YD.
	KY 80	30 (0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	257		Λ KY 80	288 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PER INCH OF DEPTH.
- DATE					_	KY 80	58 0 <	2 ESTIMATED AT 19.9 LBS. PER SQ. YD. (TWO APPLICATIONS)
						> LIN		3 ESTIMATED AT 2.4 LBS. PER SQ. YD. (TWO APPLICATIONS)4 THE FULL DEPTH CRUSHED STONE BASE
						ፓ		AREA HAS BEEN CALCULATED USING AN AVERAGE DEPTH OF 12 INCHES.
						≥		5 THIS COARSE IS USED FOR THE LEVELING & WEDGING REQUIRED TO TIE THE DETOUR
						I		TO EXISTING KY 80 AND IS ESTIMATED AT AN AVERAGE DEPTH OF 5 INCHES FOR 200 LINEAR FEET OF DETOUR.
BY .							2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	6 KY 80 STA 68+50 (RT) KY 80 STA 71+81.50 (RT)
PROVE		4-22	-22 -22 -22 (5) -22 (5) -22 (5)				PG6	KY 80 STA 73+00 (RT) KY 80 STA 74+22 (RT)
\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	E E E	PG6 PG6	PC64- 2664- 2664- 2664- 2684-				BAS AGGR AGGR AGGR AGGR AGGR AGGR AGGR AG	KY 80 STA 81+50 (RT) JOHN MOORE BRANCH STA 50+00 (260'LT)
		0.50B 0.50D 0.38D	75D 000D F 000D F 300D F 50D F	ASE ASE ASE BAS			STONE	THE AREAS FOR THE CONSTRUCTION CROSSING OF KY 80 ARE ESTIMATED ON A
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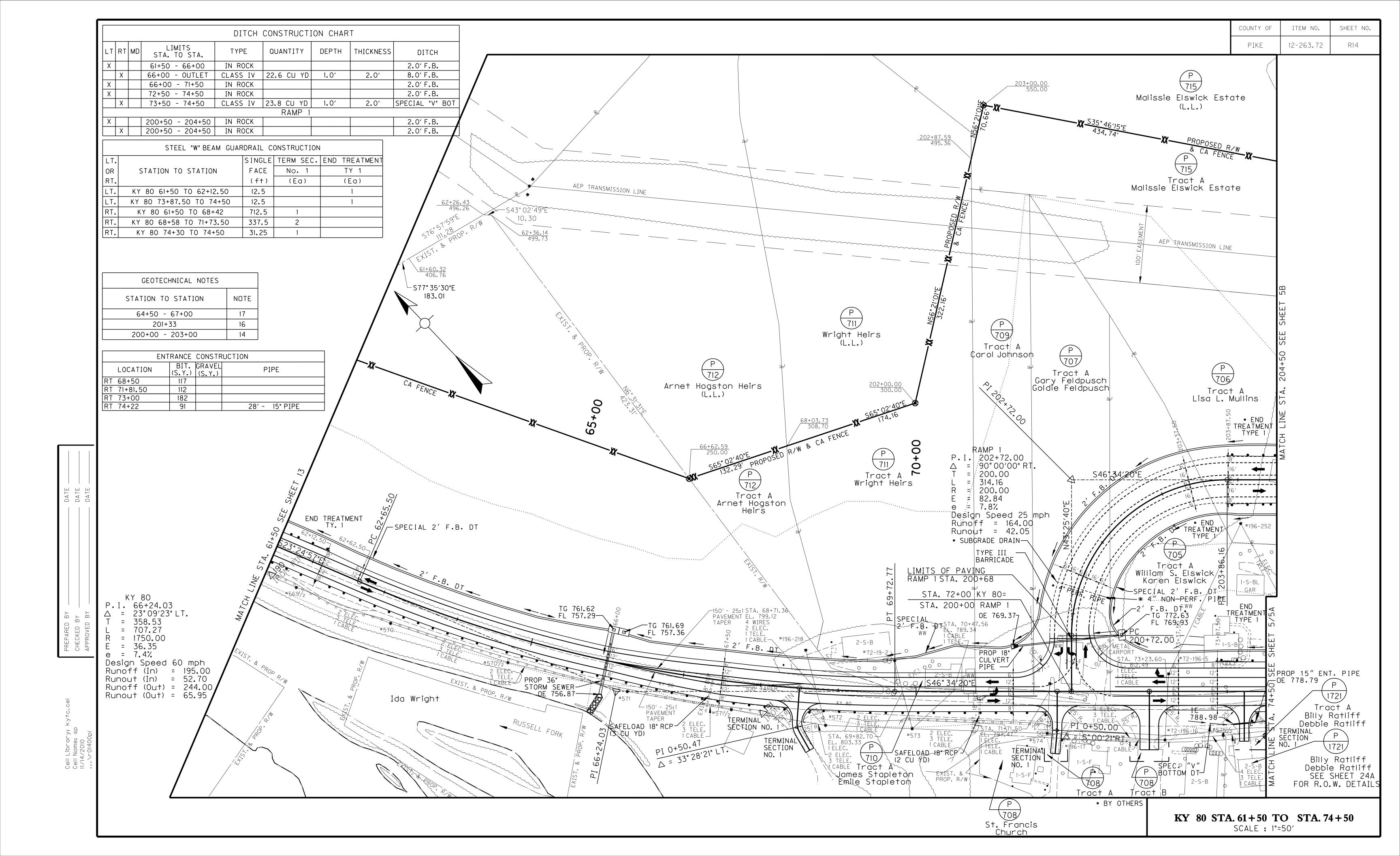


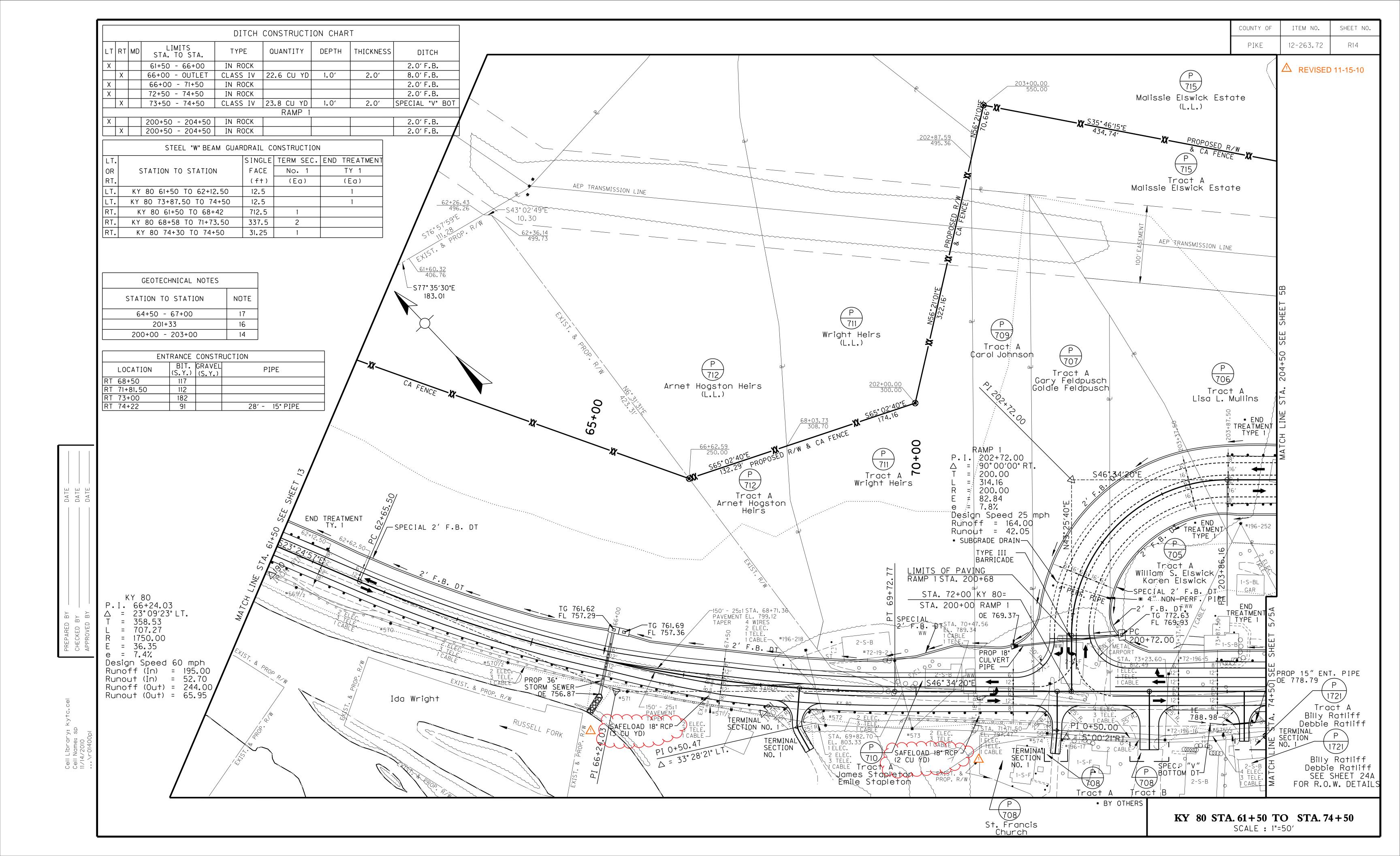


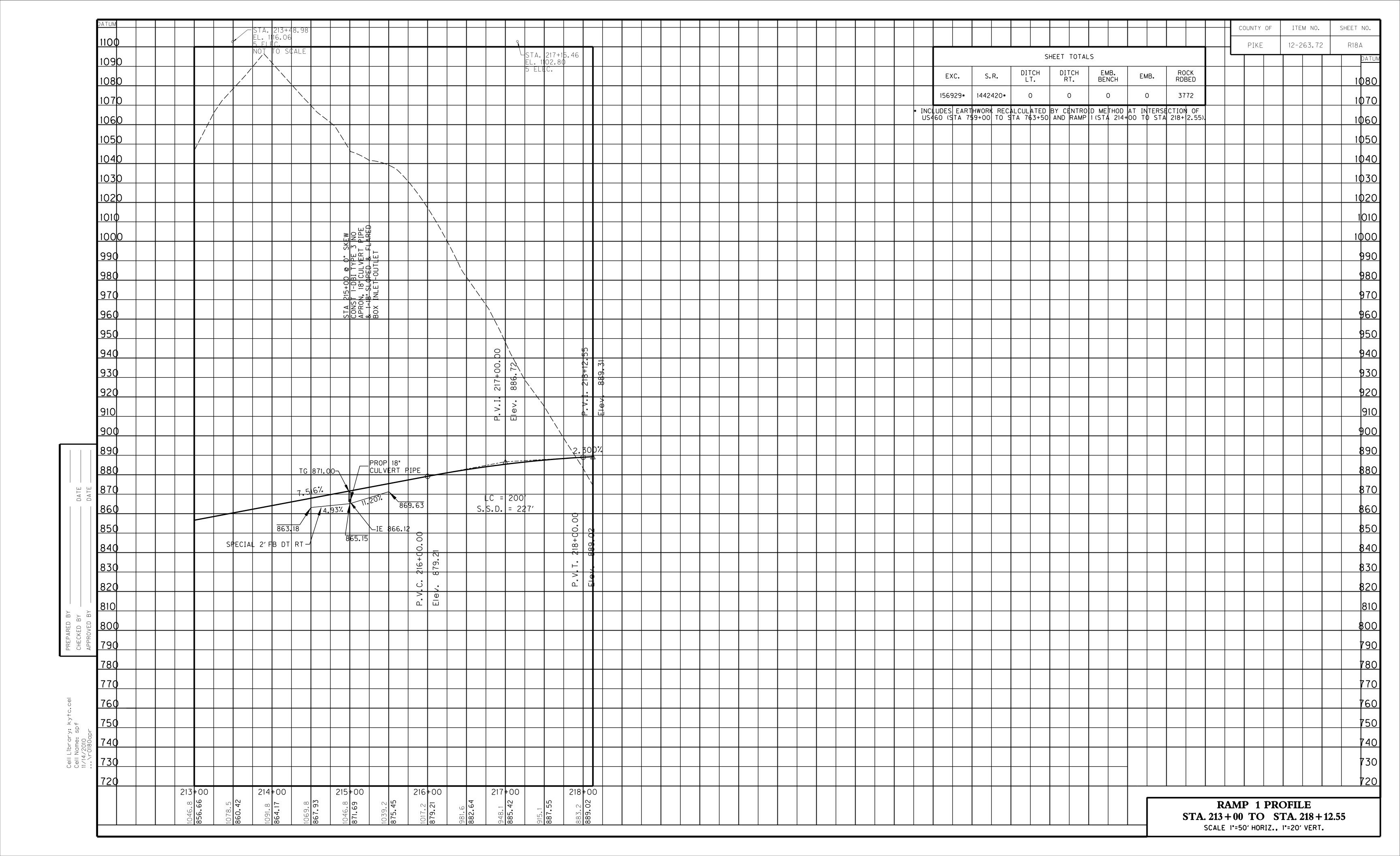


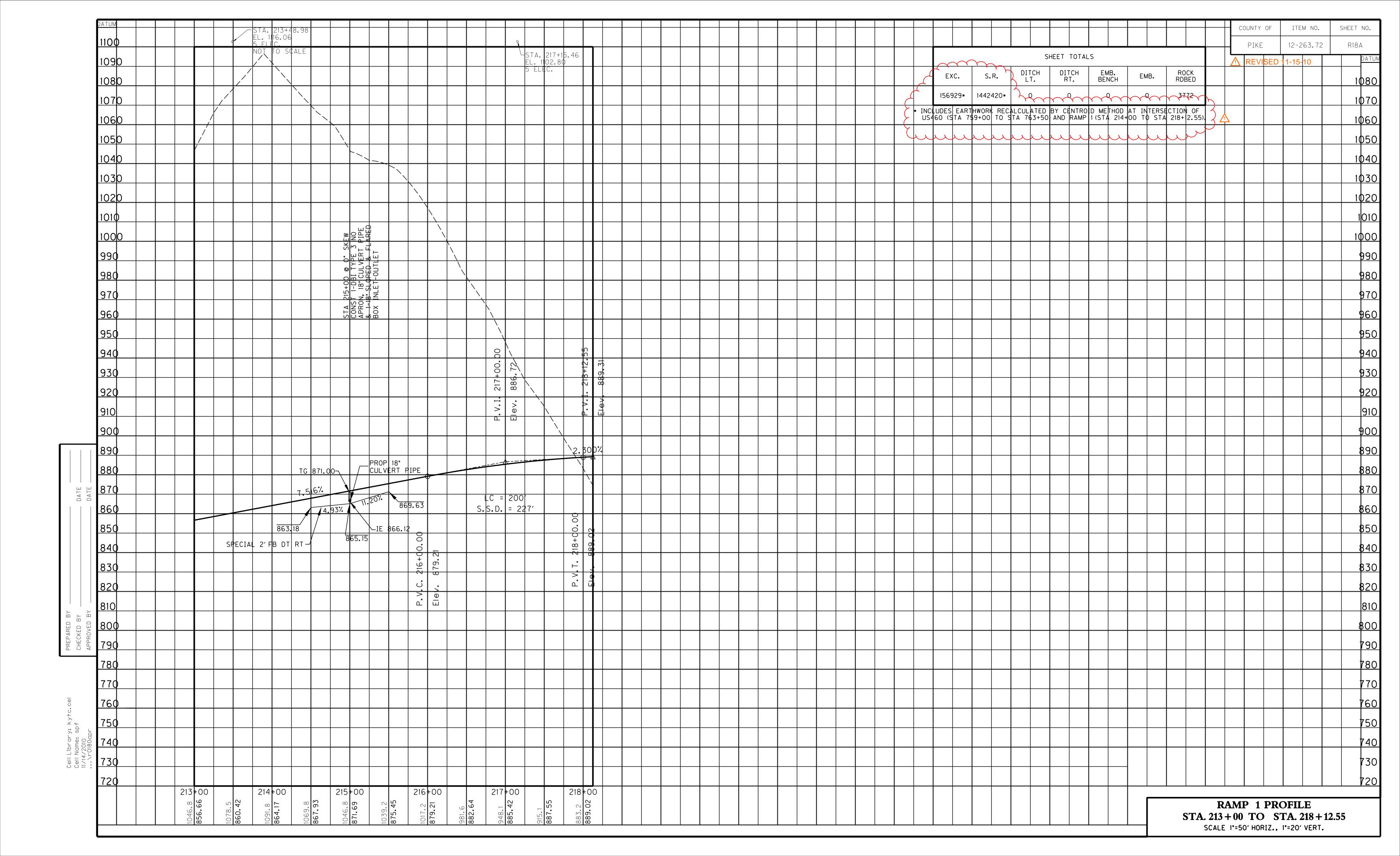












AVENUENT EDGE DITOL OFF

DIFFERENCE IN ELEVATION FOR TRAVEL LANES

A PAVEMENT EDGE THAT TRAFFIC IS EXPECTED TO CROSS IN A LANE CHANGE SITUATION SHOULD NOT HAVE AN ELEVATION DIFFERENCE GREATER THAN ONE AND ONE-HALF INCHES. THIS MAY BE INCREASED TO TWO INCHES FOR LOW SPEED SITUATIONS. WARNING SIGNS MUST BE PLACED IN ADVANCE AND THROUGHOUT THE DROP-OFF AREA.

PAVEMENT DROP-OFF

PAVEMENT EDGES THAT TRAFFIC IS NOT EXPECTED TO CROSS, EXCEPT ACCIDENTALLY. SHOULD BE TREATED AS FOLLOWS:

LESS THAN 2 INCHES -

NO PROTECTION REQUIRED. WARNING SIGNS SHOULD BE PLACED IN ADVANCE AND THROUGHOUT THE DROP-OFF AREA.

2 INCHES TO 4 INCHES -

PLACE PLASTIC DRUMS OR VERTICAL PANELS EVERY 100 FEET
ON TANGENT SECTIONS FOR SPEEDS OF 50 MILES PER HOUR OR GREATER.
CONES MAY BE USED IN PLACE OF PLASTIC DRUMS OR PANELS DURING
DAYLIGHT HOURS. FOR TANGENT SECTIONS WITH SPEEDS LESS THAN
50 MILES PER HOUR AND FOR CURVES, DEVICES SHOULD BE PLACED
EVERY 50 FEET. SPACING FOR TAPERS SHOULD BE IN ACCORDANCE
WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

GREATER THAN 4 INCHES -

FOR TEMPORARY CONDITION, THREE DAYS OR LESS, DROP-OFFS GREATER THAN 4 INCHES MAY BE PROTECTED WITH PLASTIC DRUMS OR VERTICAL PANELS FOR SHORT DISTANCES DURING DAYLIGHT HOURS WHILE WORK IS BEING DONE IN THE DROP-OFF AREA.

A WEDGE WITH 1:3 OR FLATTER SLOPE IS REQUIRED OVERNIGHT, OR WHEN WORK IS IDLE IN DROP-OFF AREA.

FOR MORE THAN THREE DAYS, POSITIVE SEPERATION (BARRIER WALL) IS REQUIRED.

LESSER TREATMENTS THAN THOSE DESCRIBED ABOVE MAY BE CONSIDERED FOR LOW-VOLUME LOCAL STREETS.

PAYMENT WILL BE ALLOWED FOR THE DGA MATERIAL USED FOR WEDGING.

ENVIRONMENTAL NOTES

EROSION CONTROL AND WATER POLLUTION CONTROL

THE PROVISIONS OF SECTION 212 (EROSION CONTROL) AND 213 (WATER POLLUTION CONTROL) OF THE KENTUCKY STANDARD SPECIFICATIONS SHALL BE FULLY ENFORCED TO MINIMIZE ADVERSE IMPACTS TO THE WATER QUALITY OF RUSSELL FORK, BEAVER CREEK, GROUNDWATER AND OTHER AQUATIC FEATURES. SILT TRAPS (PER KENTUCKY STANDARD SPECIFICATIONS SECTION 213.04.03) ARE NOT TO BE CONSTRUCTED IN A NATURAL STREAM CHANNEL AND SILT IS TO BE PREVENTED FROM ENTERING RUSSELL FORK AND BEAVER CREEK BY USE OF SEDIMENTATION BASINS, SILT CHECKS, SILT TRAPS, SILT FENCES, TEMPORARY SEEDING AND, IF NECESSARY, TEMPORARY SILT DITCHES, PROPOERLY LOCATED ALONG THE LENGTH OF THE EMBANKMENT AND IN EPHEMERAL DITCHES TRIBUTARY TO THESE FEATURES. ALL RUNOFF FROM CONSTRUCTION IS TO BE ROUTED THROUGH THESE EROSION CONTROL STRUCTURES.

THE CONTRACTOR IS RESPONSIBLE FOR PERMIT AND EROSION CONTROL REQUIRED FOR CONSTRUCTION TRAFFIC CROSSING OF BEAVER CREEK.

BLASTING OPERATIONS

DURING BLASTING OPERATIONS, TRAFFIC MAY BE HALTED ON KY 80 A MAXIMUM OF 30 MINUTES PER HOUR TO ALLOW THE EXECUTION OF THE "BLAST" AND TO ALLOW FOR REMOVAL OF ROCK FRAGMENTS AND DEBRIS. BLASTING WILL NOT BE PERMITTED BETWEEN THE HOURS OF 7:00 - 9:00 A.M. AND 3:00 - 5:00 P.M.

THE CONTRACTOR, WHEN USING EXPLOSIVE CHARGES OF ANY KIND FOR THE PURPOSE OF EXCAVATING, REMOVAL, ETC., ON THIS PROJECT SHALL HALT ALL TRAFFIC A SAFE DISTANCE ON EITHER SIDE OF THE IMPEDING BLAST.

AFTER ANY BLAST, THE CONTRACTOR SHALL IMMEDIATELY INSPECT THE PAVEMENT AND REPAIR DAMAGE AND REMOVE DEBRIS THAT MAY BE A HAZARD TO TRAFFIC BEFORE ALLOWING TRAFFIC TO PROCEED ON THE AFFECTED SECTION.

THE CONTRACTOR SHALL HAVE SUITABLE EQUIPMENT AT THE SITE AND IN RUNNING MODE FOR THE PURPOSE OF REPAIRING THE EXISTING PAVEMENT AND CLEARING THE EXISTING PAVEMENT OF ALL DEBRIS.

THE CONTRACTOR SHALL HALT TRAFFIC, BLAST, REPAIR AND CLEAN THE EXISTING PAVEMENT AND RETURN TRAFFIC TO NORMAL OPERATION IN THE LEAST AMOUNT OF TIME POSSIBLE.

PROJECT PHASING

ALL MAINLINE AND RAMP CONSTRUCTION MAY RUN CONCURRENT WITH THE FOLLOWING PHASES AS LONG AS IT DOES NOT AFFECT THE TRAFFIC IN THESE PHASES. PROPER SIGNING AND FLAGGING WILL BE REQUIRED. ACCESS TO KY 1373 AND ALL ENTRANCES ALONG KY 80 MUST BE MAINTAINED THROUGH EACH PHASE.

CONSTRUCT TEMPORARY SIGNAL FOR CONSTRUCTION CROSSING OF KY 80 BETWEEN THE EXISTING BRIDGE OVER BEAVER CREEK AND THE APPROACH TO JOHN MOORE BRANCH BRIDGE OVER THE RUSSELL FORK FOR HAULING EXCESS MATERIAL INTO JOHN MOORE BRANCH. THE SIGNAL SHALL BE IN OPERATION DURING ALL HAULING ACTIVITY ACROSS KY 80 UNLESS A FLAGGER IS PRESENT.

THE CONTRACTOR IS RESPOSIBLE FOR MAINTAINING THE STRUCTURAL INTEGRITY OF THE KY 80 PAVEMENT, AS DETERMINED BY THE KYTC ENGINEER, IN THE VICINITY OF THE CROSSING AND THE JOHN MOORE BRANCH BRIDGE (SEE NOTE SHEET 2A) UNTIL PROJECT COMPLETION.

PHASE 1

CONSTRUCT AS MUCH OF DETOUR "1" AS POSSIBLE WITHOUT AFFECTING TRAFFIC ON EXISTING KY 80.

CONSTRUCT DETOUR "1" TIE INS TO KY80 UNDER TRAFFIC WITH FLAGGER.

PHASE 2

REROUTE TRAFFIC TO DETOUR "1".

CONSTRUCT PIPES ACROSS KY 80 USING CUT AND COVER LANE CLOSURE CASE I.

CONSTRUCT LEFT SIDE DRAINAGE AND PAVE LEFT SHOULDER FROM PROPOSED STATION 51+00 TO 67+00.

PHASE 2 CONTINUED

CONSTRUCT LEFT SIDE DRAINAGE AND PAVE LEFT SHOULDER AND AS MUCH OF TRAVEL LANES (THRU BINDER COURSE) AS POSSIBLE LEFT OF EXISTING KY 80 FROM PROPOSED STATION 67+00 TO 77+00 WITHOUT AFFECTING TRAFFIC ALONG EXISTING KY 80.

CONSTRUCT RCBC FROM LEFT SIDE TO 22.5 FEET RIGHT OF CENTERLINE STATION 78+50.

CONSTRUCT LEFT SIDE DRAINAGE AND ROCK ROADBED TO 18' RIGHT OF CENTERLINE FROM PROPOSED STATION 77+00 TO 80+00.

CONSTRUCT LEFT SIDE DRAINAGE AND ROCK ROADBED TO 12' RIGHT OF CENTERLINE FROM PROPOSED STATION 80+00 TO 85+00.

CONSTRUCT LEFT SIDE DRAINAGE FROM PROPOSED STATION 85+00 TO BEAVER CREEK.

CONSTRUCT AS MUCH OF KY 80 TIE IN AS POSSIBLE WITHOUT AFFECTING TRAFFIC ALONG EXISTING KY 80.

PHASE 3

REDUCE TRAFFIC TO ONE LANE ON THE S.B. LANE OF EXISTING KY 80 WITH SIGNALIZED LANE CLOSURE FOR WORK ZONE 50+00 TO 67+00.

CONSTRUCT AS MUCH OF TRAVEL LANE (THRU BINDER COURSE) LEFT OF KY 80 CENTERLINE STATION 51+00 TO 67+00.

CONSTRUCT KY 80 TIE IN TO KY 80 UNDER TRAFFIC WITH FLAGGER.

PHASE 4

SHIFT TRAFFIC TO NEWLY CONSTRUCTED N.B. LANE OF KY 80 AND REDUCE TRAFFIC TO ONE LANE WITH SIGNALIZED LANE CLOSEURE FOR WORK ZONE 50+00 TO 67+00.

REROUTE TRAFFIC (TWO WAY) TO NEWLY CONSTRUCTED KY 80 AND KY 80 TIE-IN WORK ZONE 67+00 TO 85+00.

CONSTRUCT REMAINING SHOULDER AND TRAVEL LANE (THRU BINDER COURSE) RIGHT OF KY 80 CENTERLINE STATION 50+00 TO 67+00.

CONSTRUCT REMAINING RCBC STATION 78+50.

REMOVE DETOUR "1".

CONSTRUCT ENTRANCES 50+00 TO 84+18.

PHASE 5

COMPLETE FINAL PAVING AND STRIPING UNDER TRAFFIC WITH FLAGGER.

DATE

CHECKED BY ______APPROVED BY _____

Cell Library: kytc.o Cell Name: sp 11/14/2010

↑ REVISED 11-15-10

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PHASE 2

REROUTE TRAFFIC TO DETOUR "1".

CONSTRUCT PIPES ACROSS KY 80 USING CUT AND COVER LANE CLOSURE CASE I.

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PHASE 2 CONTINUED

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CONSTRUCT LEFT SIDE DRAINAGE FROM PROPOSED STATION 85+00 TO BEAVER CREEK.

CONSTRUCT AS MUCH OF KY 80 TIE IN AS POSSIBLE WITHOUT AFFECTING TRAFFIC ALONG EXISTING KY 80.

PHASE 3

REDUCE TRAFFIC TO ONE LANE ON THE S.B. LANE OF EXISTING KY 80 WITH SIGNALIZED LANE CLOSURE FOR WORK ZONE 50+00 TO 67+00.

CONSTRUCT AS MUCH OF TRAVEL LANE (THRU BINDER COURSE) LEFT OF KY 80 CENTERLINE STATION 51+00 TO 67+00.

CONSTRUCT KY 80 TIE IN TO KY 80 UNDER TRAFFIC WITH FLAGGER.

PHASE 4

SHIFT TRAFFIC TO NEWLY CONSTRUCTED N.B. LANE OF KY 80 AND REDUCE TRAFFIC TO ONE LANE WITH SIGNALIZED LANE CLOSEURE FOR WORK ZONE 50+00 TO 67+00.

REROUTE TRAFFIC (TWO WAY) TO NEWLY CONSTRUCTED KY 80 AND KY 80 TIE-IN WORK ZONE 67+00 TO 85+00.

CONSTRUCT REMAINING SHOULDER AND TRAVEL LANE (THRU BINDER COURSE) RIGHT OF KY 80 CENTERLINE STATION 50+00 TO 67+00.

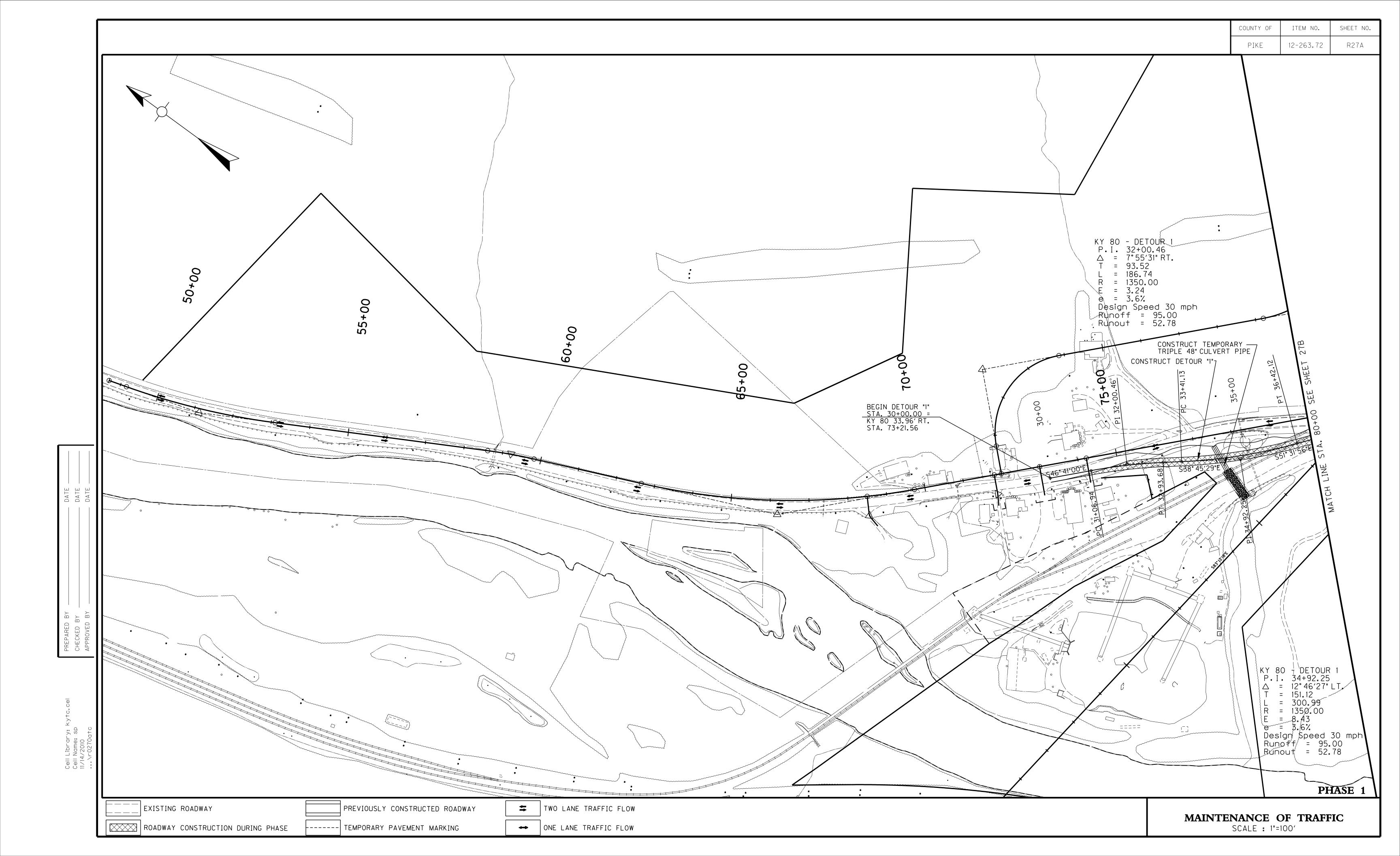
CONSTRUCT REMAINING RCBC STATION 78+50.

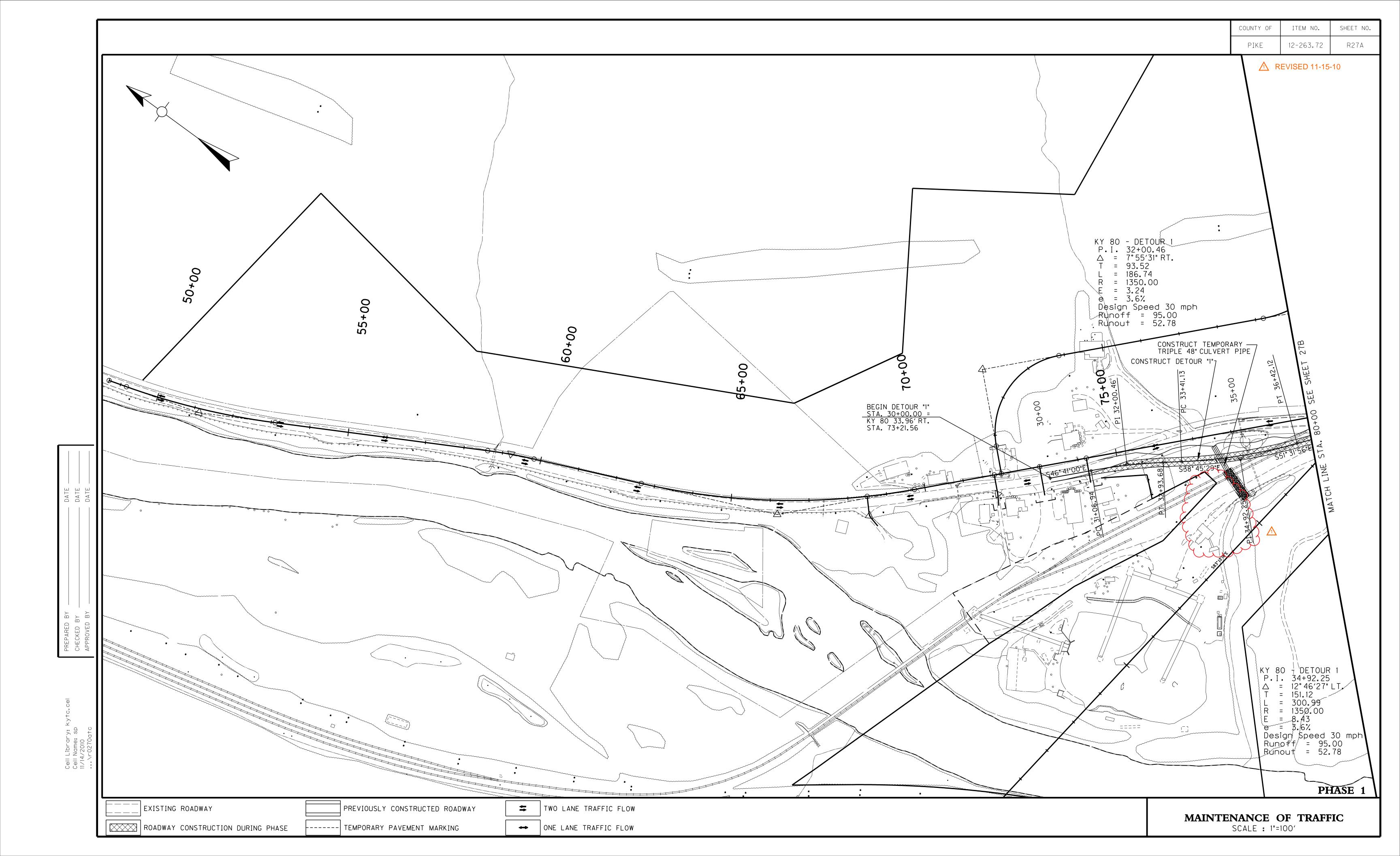
REMOVE DETOUR "1".

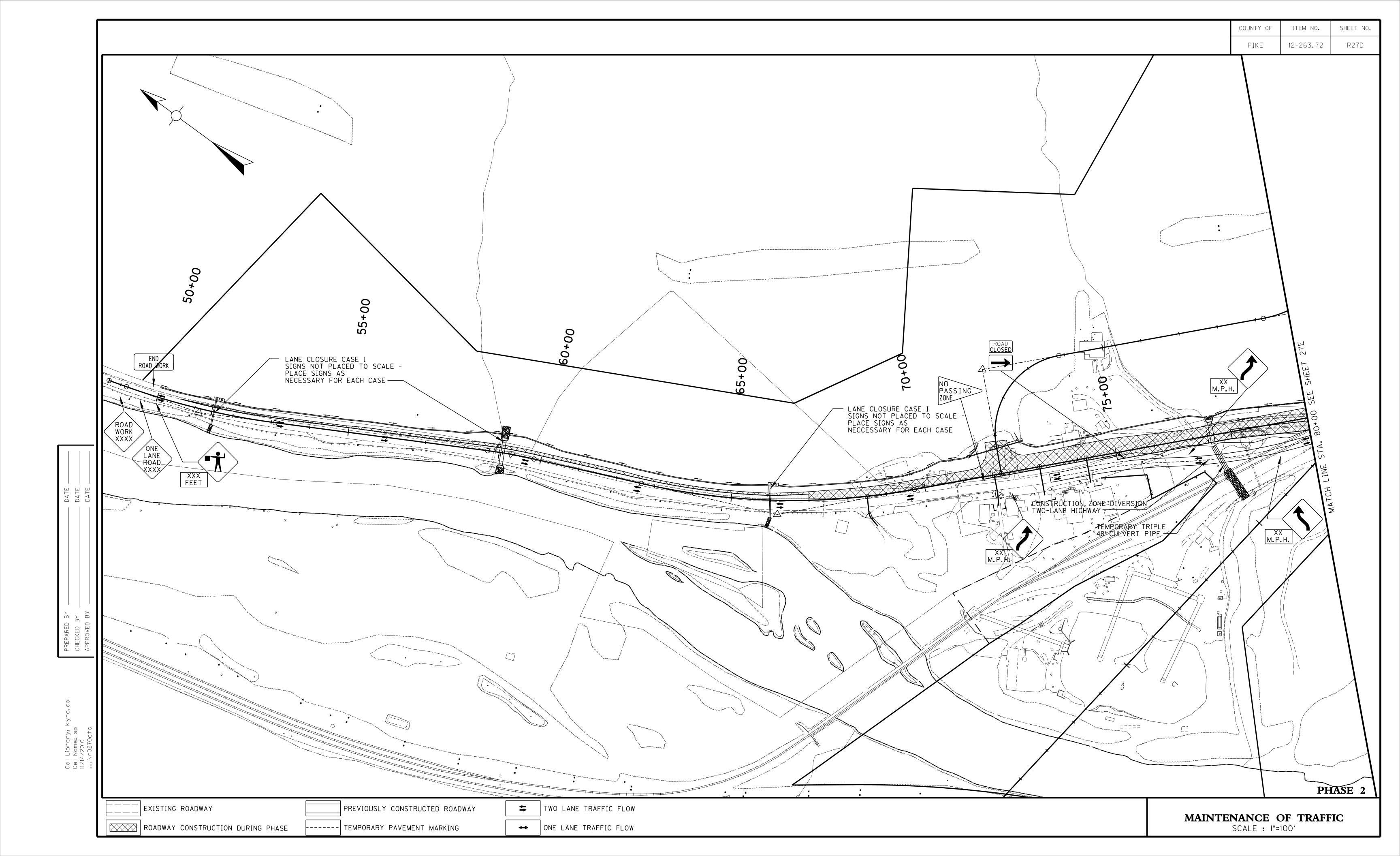
CONSTRUCT ENTRANCES 50+00 TO 84+18.

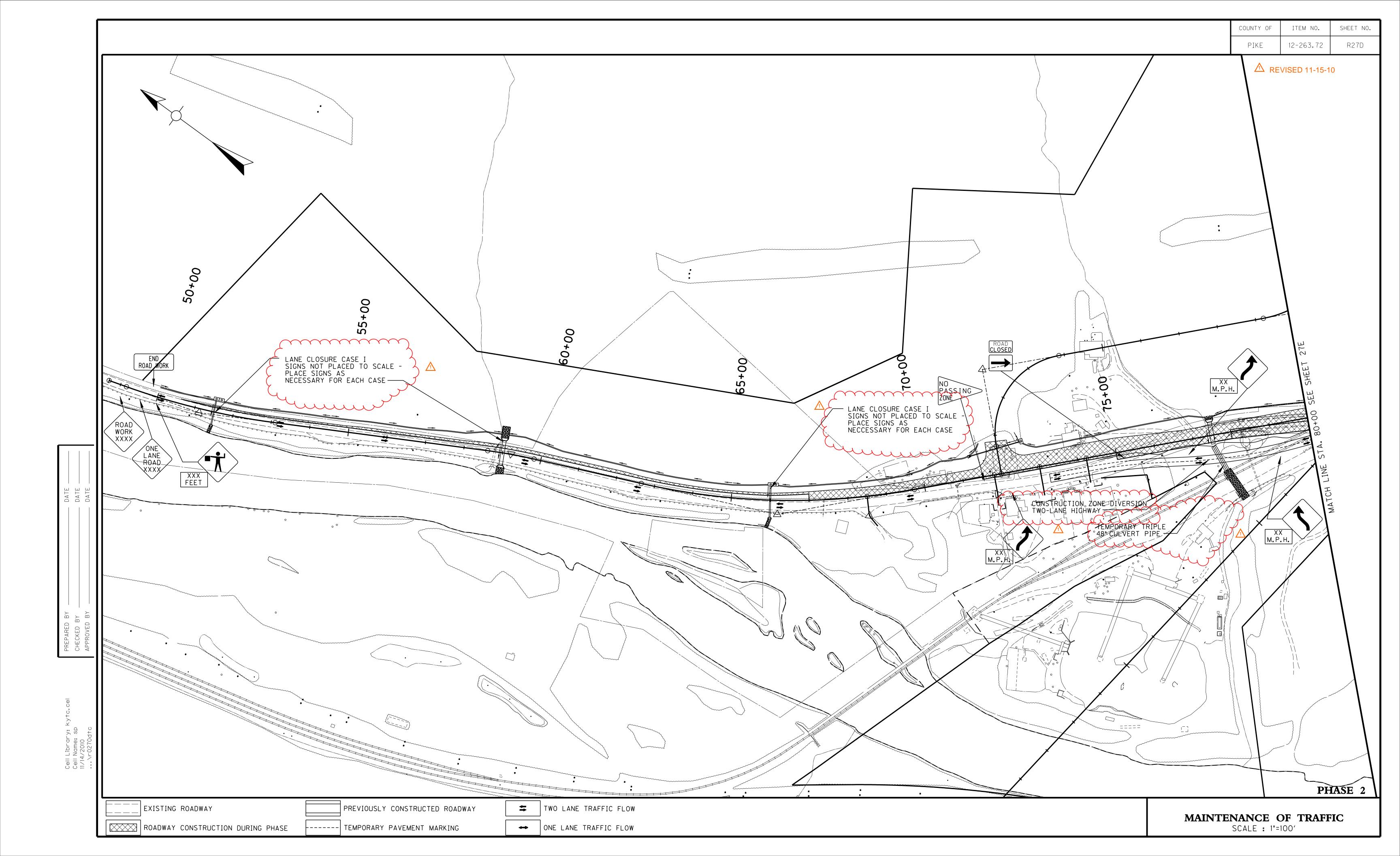
PHASE 5

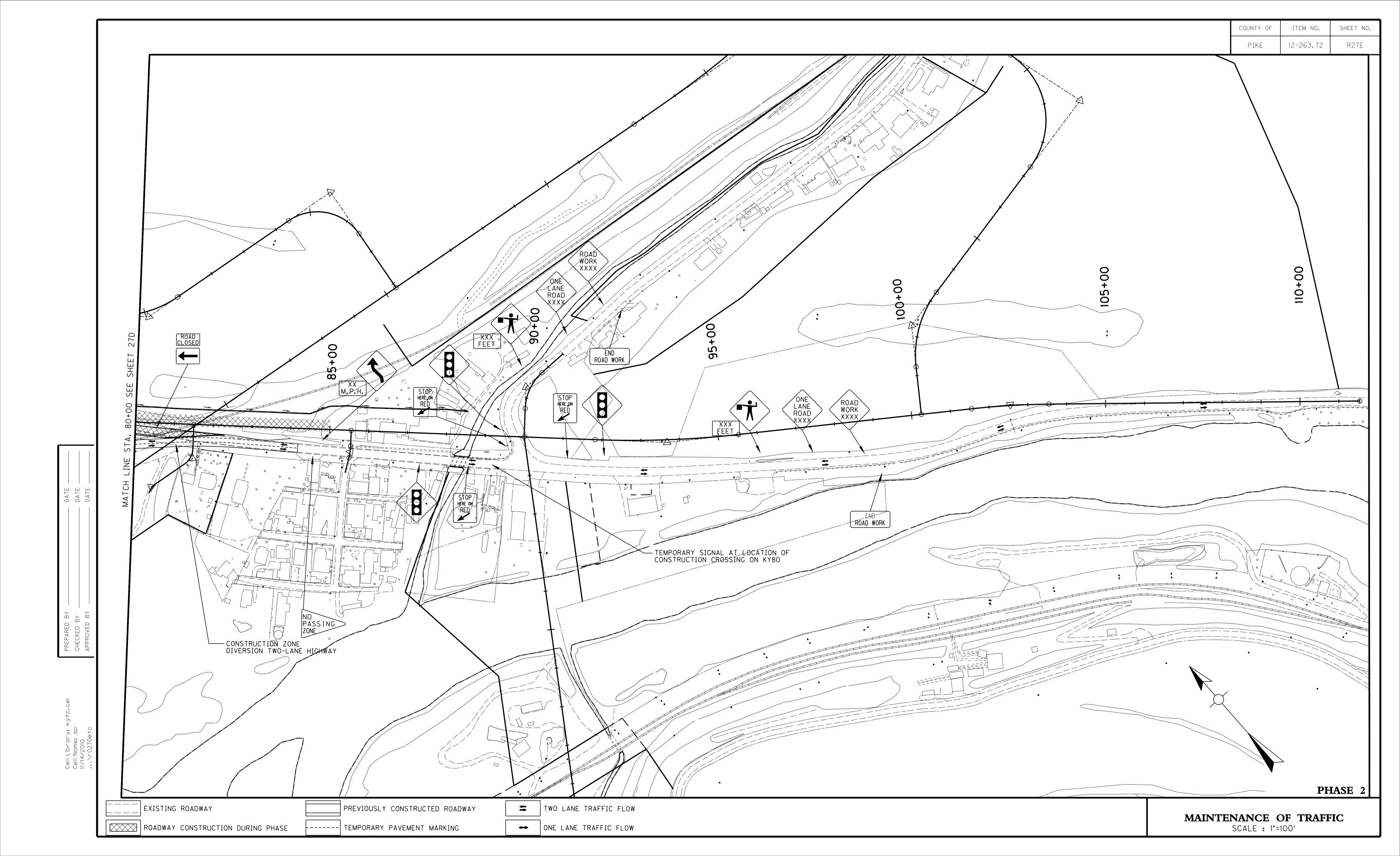
COMPLETE FINAL PAVING AND STRIPING UNDER TRAFFIC WITH FLAGGER.

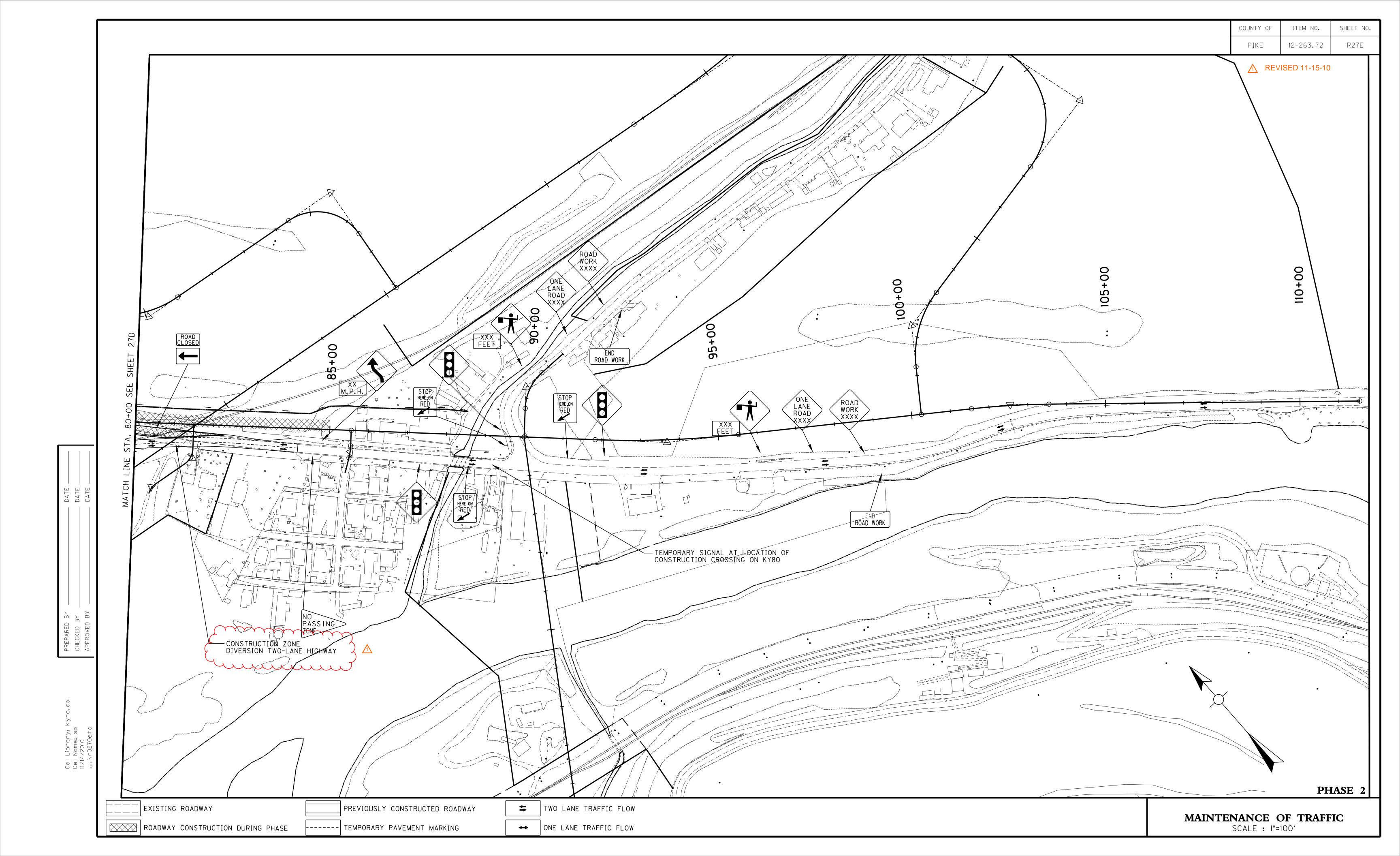


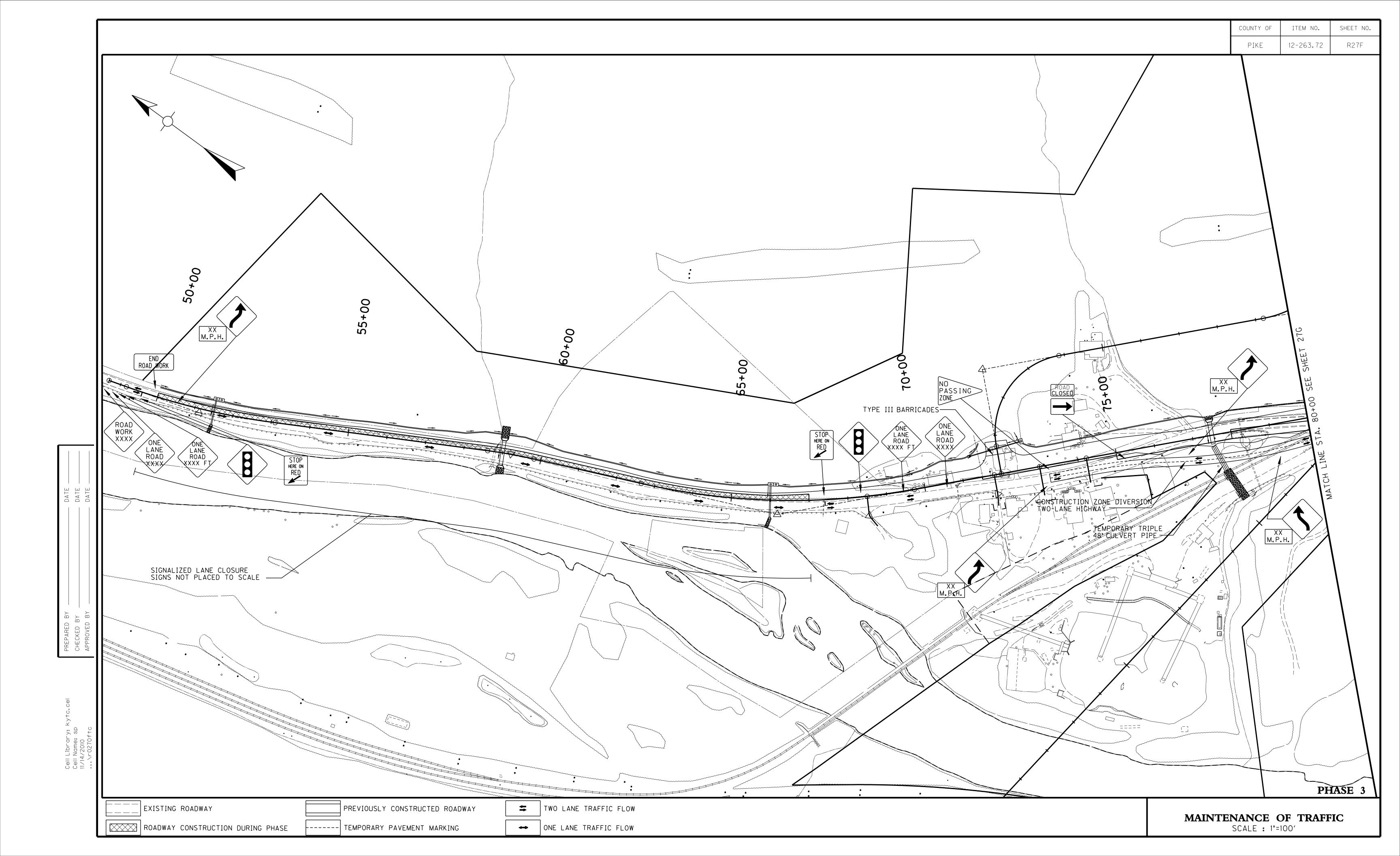


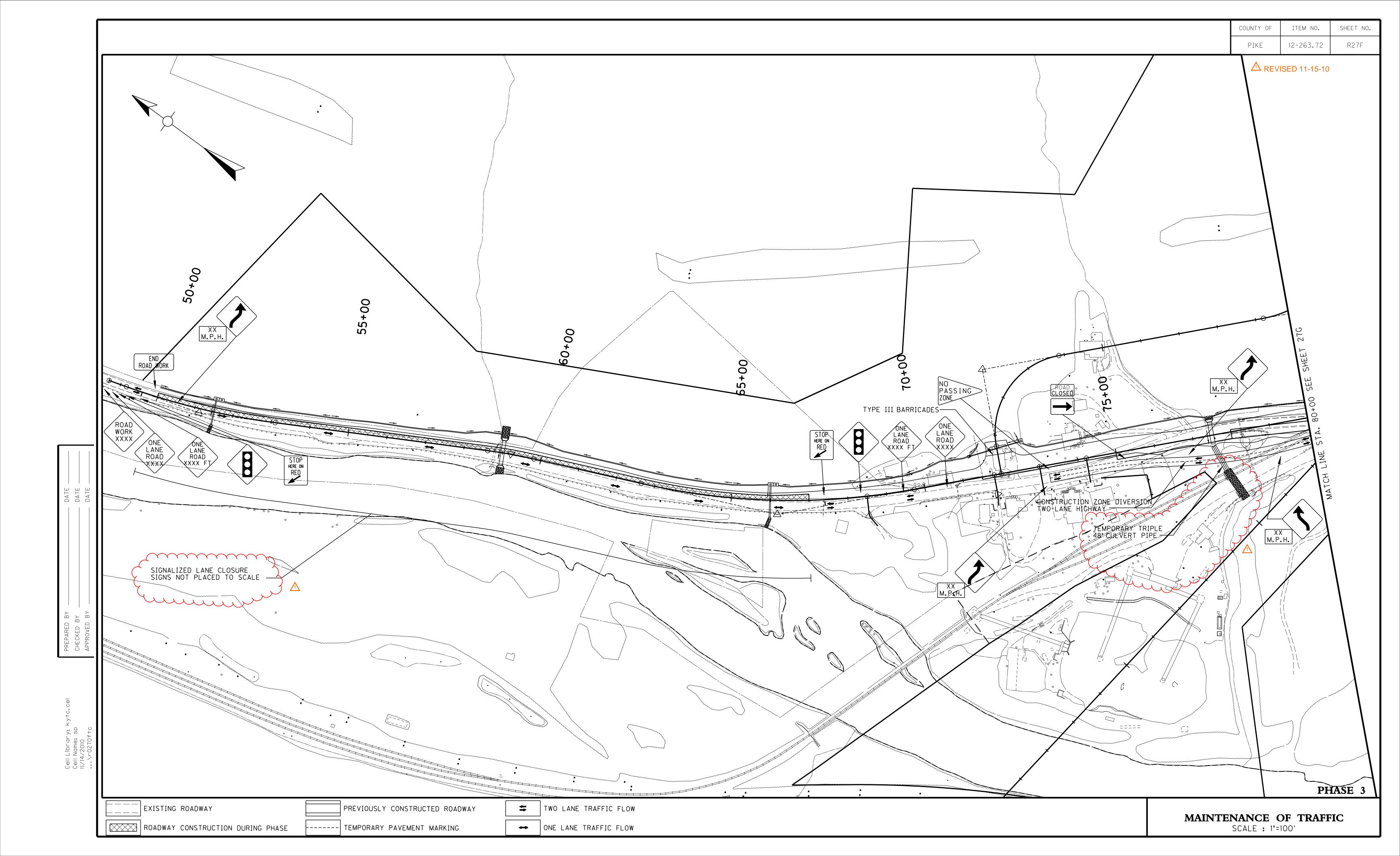


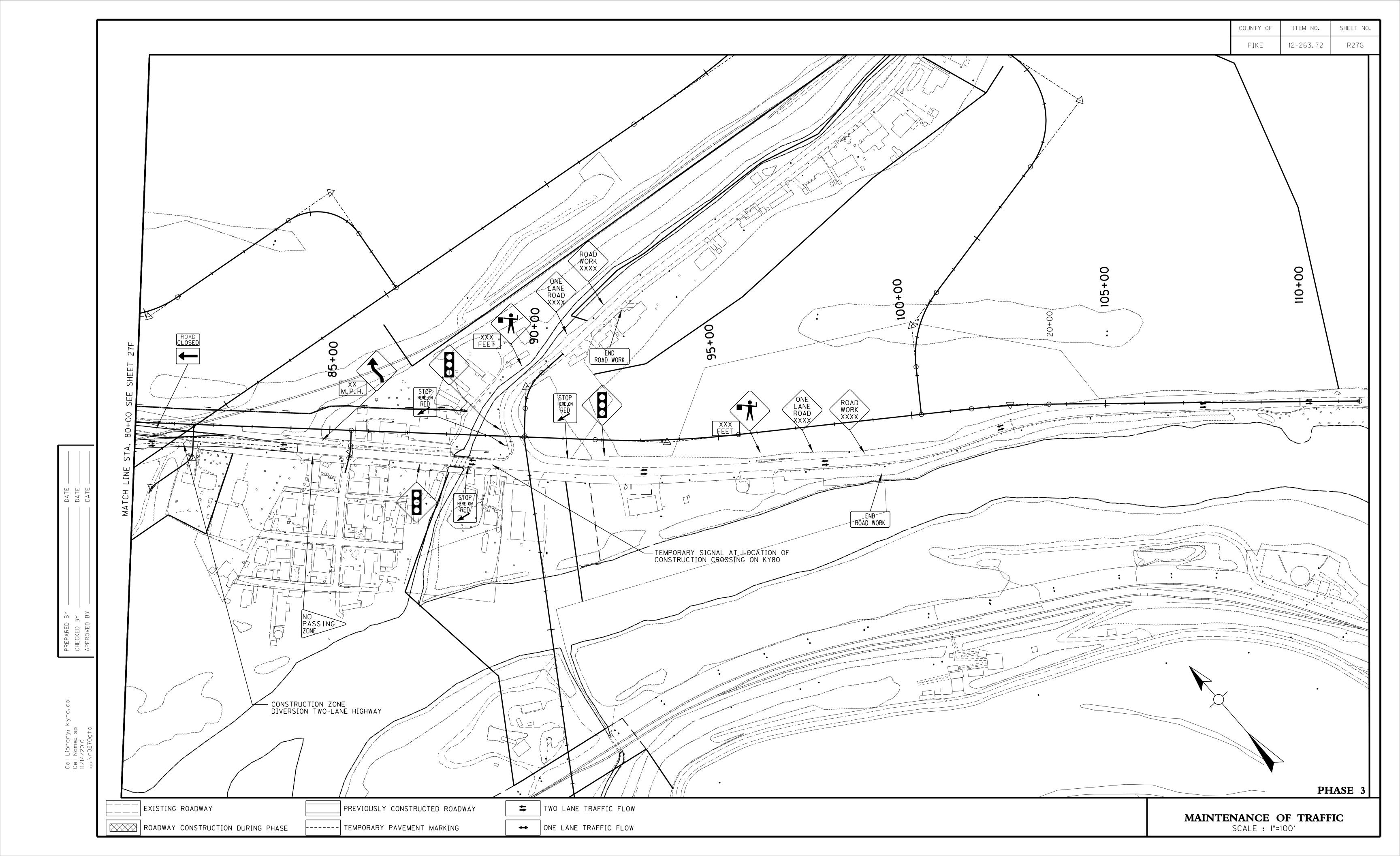


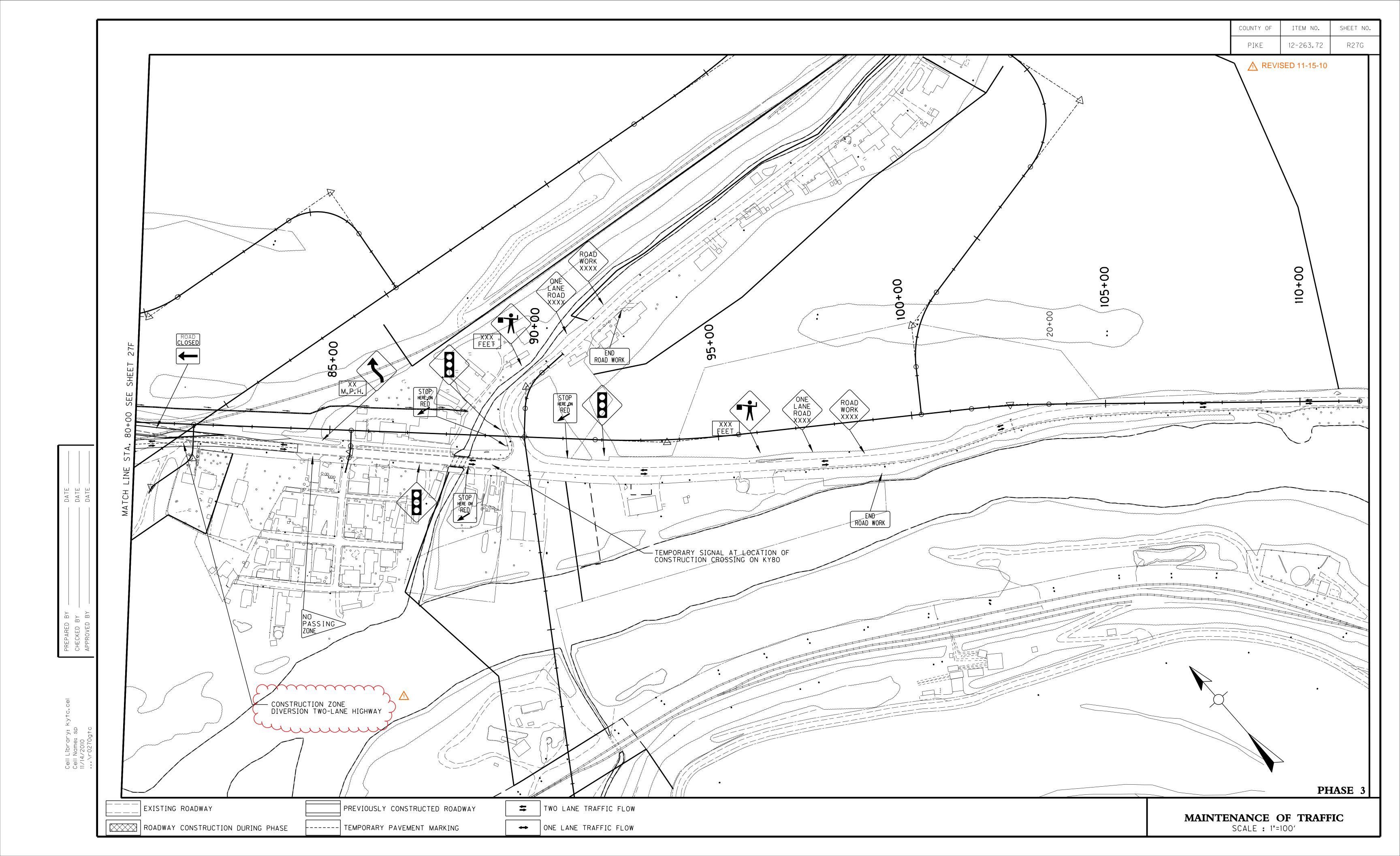


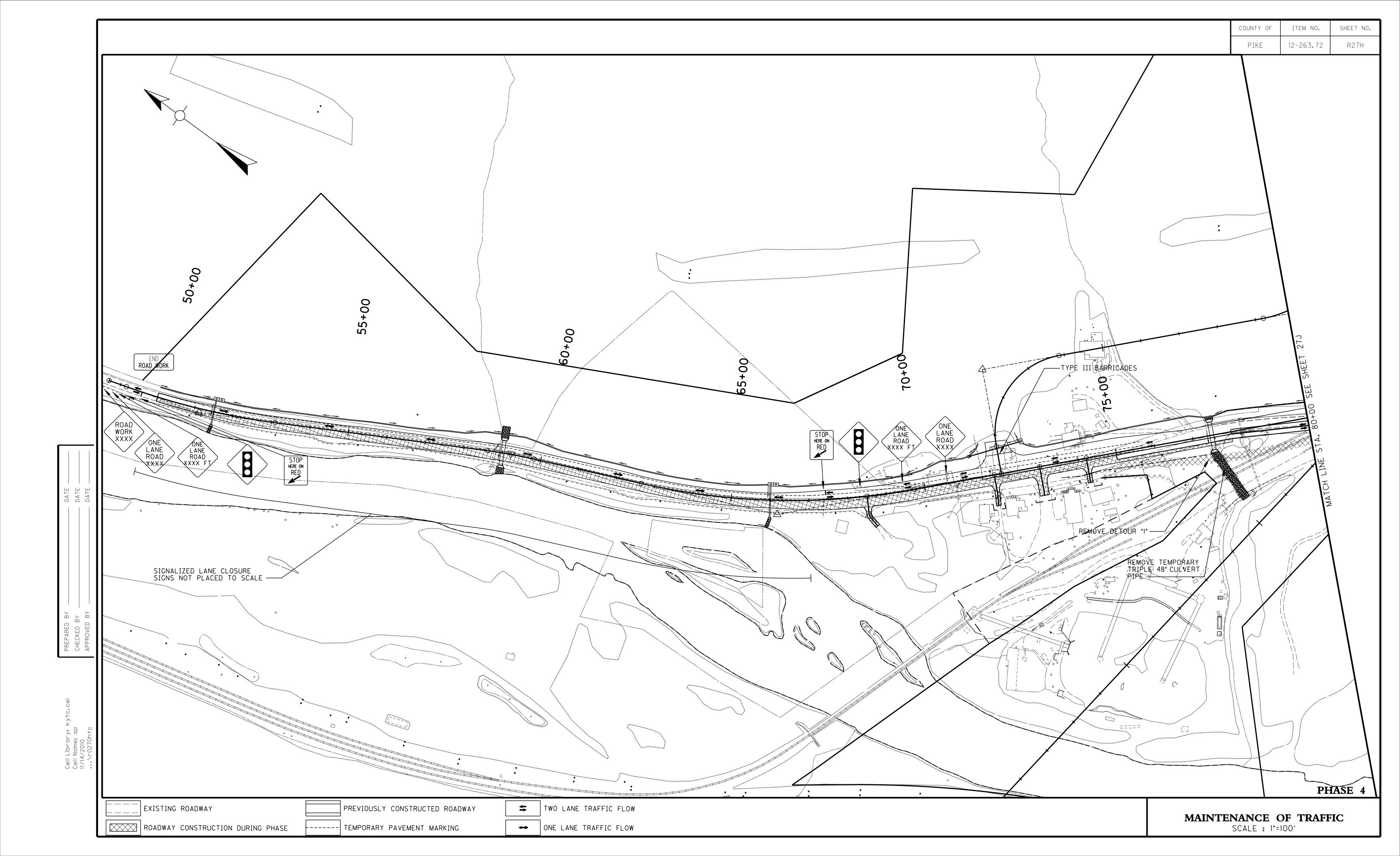


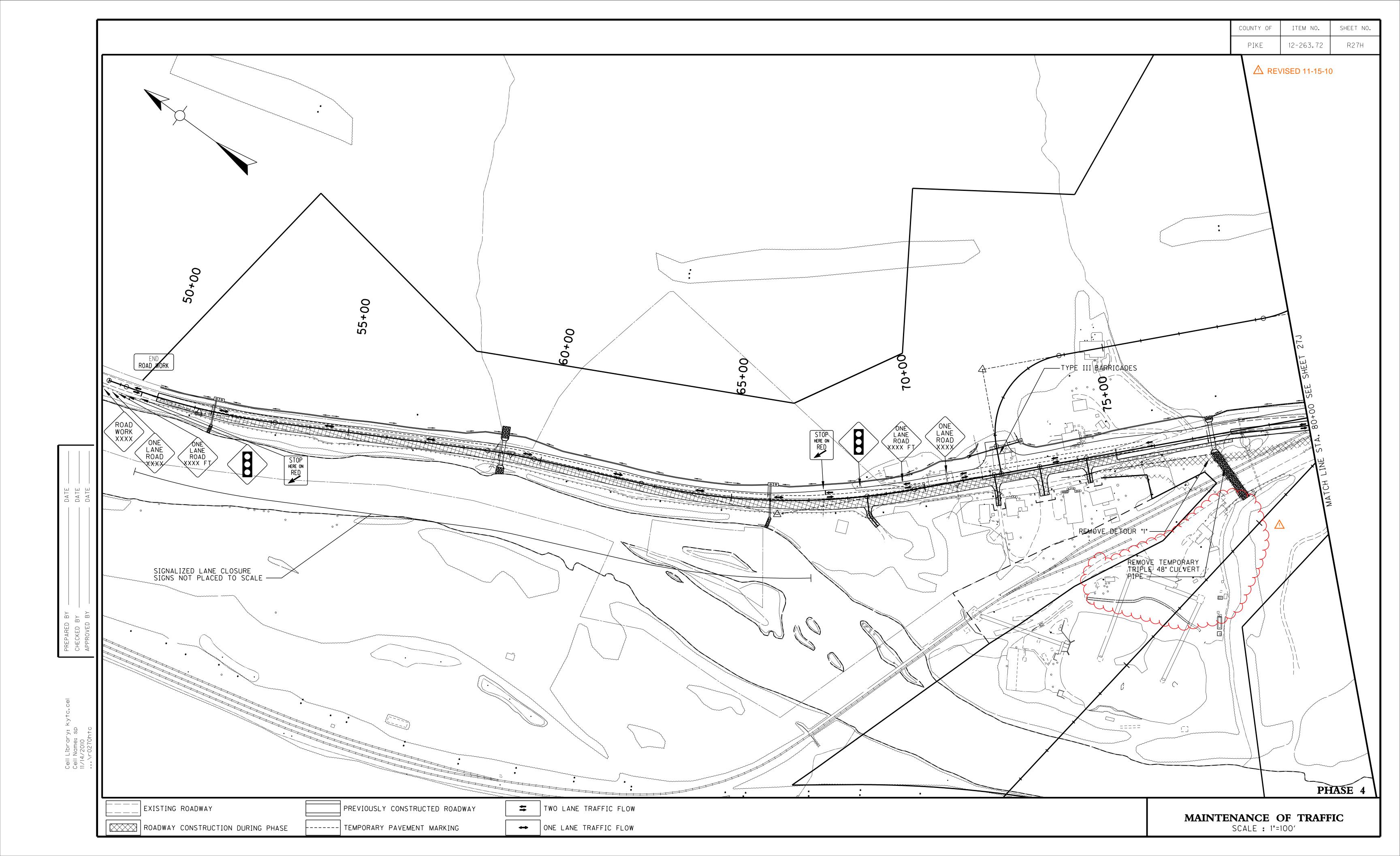












GEOTECHNICAL NOTES

Section 7: Station 758+80 to 845+00

- 1. Clearing and grubbing of embankment areas shall be completed in accordance with Section 202 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction.
- 2. Removal of existing structures and other obstructions shall be completed in accordance with Section 203 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction.
- 3. All water wells within the limits of construction, whether shown on the plans or not, shall be plugged in accordance with requirements of Section 708 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction.
- 4. All catch basins and manholes shall be filled and capped, and all septic tanks shall be cleaned and filled in accordance with Section 708 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction.
- 5. Procedures shall be performed as required to control erosion and water pollution in accordance with Sections 212 and 213 of the Kentucky Department of Highways Standard Specifications for Road and Bridge Construction.
- 6. All channel changes and special ditches shall be constructed prior to placement of any embankment materials adjacent to them in accordance with Section 206 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction. At the direction of the Engineer, materials excavated from these areas may be utilized in construction of the embankments, but may require aeration to the proper moisture contents prior to compaction operations. No extra payment shall be permitted for rehandling, hauling, stockpiling and/or manipulating these materials. Only sandstones and durable shales shall be utilized for Class IV channel lining. All non-durable shales shall be excluded from use as channel lining.
- 7. In accordance with Section 206 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction, the moisture content of embankment material shall not vary from the optimum moisture content, as determined by KM 64-511, by more than plus or minus two percent. This moisture content requirement shall have equal weight with the density requirement when determining the acceptability of embankment or subgrade construction. Refer to the Family of Curves for moisture-density relationships.
- 8. All soils, whether from roadway excavation or borrow, may require manipulation to obtain proper moisture content prior to compaction. Direct payment shall not be permitted for rehandling, hauling, stockpiling and/or manipulating soils.
- 9. The Contractor is responsible for conducting any operations necessary (such as construction of temporary drainage ditches, etc.) in order to excavate the cut areas to the required typical sections. These operations shall be incidental to the roadway excavation price.
- 10.Any saturated, soft, unstable areas encountered within embankment foundation limits and/or any other areas as specified by the Engineer shall be drained. Saturated, soft, unstable areas were noted at the following locations.

Approximate Station Limits Mainline

791+00 - 793+00

11. The Contractor shall conduct grading operations in such a manner that durable sandstone and durable shale obtained from roadway excavation shall be stockpiled separately or otherwise manipulated so that ample quantities are available for those areas requiring said materials. No direct payment will be allowed for such necessary manipulation as stockpiling and/or double handling the material. Durable sandstone and durable shale shall not be wasted unless prior

12.All roadway embankments shall be constructed using durable shale and/or durable sandstone, obtained from roadway excavation, from groundline up to roadway grade. Nondurable shales, coal and underclays shall be wasted and not utilized in the roadway embankments.

approval is obtained from the Engineer.

13. Embankment foundation benches shall be constructed into bedrock and perforated pipe underdrains shall be placed at the following approximate locations in accordance with current Kentucky Department of Highways Standard Drawings RGX-010 and RDP-006, project cross-sections, and as directed by the Engineer. The benches shall be constructed one at a time beginning with the lowest bench. Each bench shall be backfilled prior to excavation of the next bench. This procedure shall be followed to help maintain stability of the new embankments and existing slopes in these areas.

Approximate Station Limits

Mainline

765+75 - 766+75 834+75 - 835+25

14. Any coal encountered at planned grade or within a zone four (4) feet below planned grade shall be removed to a depth of four (4) feet below planned grade. The Contractor shall not perform additional undercutting to recover coal unless prior approval of the Engineer has been obtained. Any such undercutting at or near grade for recovery of coal shall be backfilled with durable sandstone in two (2) foot lifts, and positive drainage shall be maintained through the cut using eight (8) inch perforated pipe underdrains, as applicable. Potential coal at or within four (4) feet of planned grade exists at these approximate station intervals.

Roadway Portion Approximate Station Limits

Mainline	773+50 - 777+50
	820+00 - 822+00
Ramp 1	200+00 - 203+00

15. Transverse benches shall be constructed and perforated pipe underdrains shall be installed at the following approximate locations in accordance with Kentucky Department of Highways Standard Drawings RDP-005 and RDP-006, project crosssections, and as directed by the Engineer. Contrary to Standard Drawing RDP-006, transverse benches and perforated pipe underdrains shall be installed in both uphill and downhill transition areas between cuts and fills.

<u>Approximate Station</u> Mainline

> 820+80 822+60

16. Perforated pipes for subgrade drainage shall be installed at vertical sags and at the upgrade ends of structures, in accordance with Standard Drawing RDP-005 and/or as directed by the Engineer. Contrary to Standard Drawing RDP-005, such drains shall be installed even when a rock roadbed is being constructed. These drainage features shall be installed at the following approximate locations.

Roadway Portion	<u>Approximate</u>	Statio
Mainline	775+00	
Ramp 1	201+20	
Ramp 2	314+40	
KY 80	54+00	
KY 80	56+00	
KY 80	88+40	

17. Colluvial soils are present at the following approximate locations:

Roadway Portion Approximate Station Limits

Mainline	787+50 -	789+00
	802+00 -	803+00
KY 80	64+50 -	67+00

Cut slopes constructed in these materials have been found to be relatively unstable for long term performance.
Construction in these areas shall be performed as shown on the project cross-sections and as directed by the Engineer.

- 18. Intermediate benches between elevations 1010.0 and 1070.0 shall be constructed between approximate Stations 202+00 and 204+00 as shown on the project cross-sections, and as directed by the Engineer. The purpose of the intermediate benches is to control water runoff and erosion within the non-durable shale.
- 19. Any vertical mine or air shaft under a proposed embankment, whether shown on the plans or not, shall be filled with broken stone (durable sandstone or durable shale) from roadway excavation and capped with an eight (8) inch reinforced concrete slab. The slab shall be in accordance with Section 708 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction.
- 20. Any mine tunnels or horizontal auger openings in mined-out areas below grade which show signs of subsidence, whether shown on the plans or not, shall be thoroughly investigated at the direction of the Engineer by rock coring, probing or other means. The openings shall be collapsed or undercut and backfilled with broken stone (durable sandstone or durable shale - SDI 95 or greater) from roadway excavation. The material shall be backfilled in accordance with Section 206. At the direction of the Engineer, pneumatic backstowing of crushed stone (maximum size 40 mm with no more than 5% passing the No. 100 sieve) may be utilized to backfill openings which are inaccessible or difficult to backfill by other means. If feasible, positive drainage of the tunnels or openings shall be provided through use of pipe underdrains or other suitable drainage features. Pipes and other materials used for drainage shall be paid for at the unit bid price for those items. Pneumatic backstowing or other special equipment shall be paid for at the unit bid price per ton of backstowed material. Potential mine tunnels or horizontal auger openings in mined out areas below grade have been identified within the following station interval.

<u>Approximate Station Limits</u> Mainline

759+00 - 763+00

21. Any mine tunnels or horizontal auger openings which are exposed in cut slopes, whether shown on the plans or not, shall be backfilled a minimum distance of 20-feet from the face of the cut. Pneumatic backstowing with broken stone (durable sandstone or durable shale - SVI 95 or greater, maximum size 40 mm with no more than 5% passing the No. 100 sieve) shall be required in an effort to completely fill any voids. The last five (5) feet, horizontally, of backstowed material shall contain five percent cement, by weight, and shall be backstowed as a slurry mix. If feasible, positive drainage of the tunnels or openings shall be provided through the use of pipe underdrains, surface ditches or other suitable drainage facilities. Pipes and other material used for drainage shall be paid for at the unit bid price for those items. Pneumatic backstowing and other materials, or special equipment, shall be paid for at the unit bid price per ton of backstowed material. Potential mine tunnels or horizontal auger openings which may be exposed in cut slopes have been identified within the following station interval.

Approximate Station Limits Ramp 1

214+00 - 217+00

Controlled Embankment at John Moore Branch

22. All notes and recommendations regarding preparation of areas to receive fill, as presented in FMSM's January 2001 "Geotechnical Engineering Report, US 460 Relocation, Sections 7, 8 and 8A, Beaver Creek to Grassy Creek", remain applicable.

- 23. Clearing and grubbing of embankment area shall be completed in accordance with Section 202 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction. Vegetative and organic materials shall be removed from the disposal area prior to placement of the excess spoil.
- 24. A durable sandstone drainage blanket should be constructed along the natural flow path of the hollow and extend from the toe to the head of the natural surface area beneath the fill. In addition latteral drains from swales and sweeps should be constructed to direct water to the underdrain.

The drainage blanket should be sized to carry the maximum anticipated seepage of water, due to precipitation, away from the fill. However, the minimum size of the drainage blanket should be 16 feet in width by 8 feet in height. In constructing the drainage blanket, no more than 10 percent of the rock should be less than 12 inches in size and no single rock should be larger than 25 percent of the width of the drainage blanket. The durable sandstone should be obtained from roadway excavation.

- 25. The excess material placed in the Controlled Embankment at John Moore Branch will be placed in accordance with Section 206 of the <u>Standard Specifications</u> for Road and Bridge Construction, current edition, except that NO MEASUREMENT OR DIRECT PAYMENT WILL BE MADE FOR THE SITE PREPARATION, EXCAVATION, ROCK DRAINAGE BLANKET, OR PLACEMENT OF THE EXCESS MATERIAL IN THE CONTROLLED EMBANKMENT.
- 26. Upon completion of the controlled embankment and prior to future development of the site at John Moore Branch, it is recommended that site specific geotechnical explorations be performed that are designed specifically for that type of proposed development. Depending on the type of structure to be built, additional foundation improvement techniques such as preloading, dynamic compaction, excavation/replacement of materials, or deep foundation elements may be required. Because the specifics of future development at the site cannot be defined at this time, this report does not contain any conclusions or recommendations regarding how this controlled embankment may need to be constructed or improved to accommodate such development.

KENTUCKY
DEPARTMENT OF HIGHWAYS
COUNTY OF
PIKE

US 460 SECTION 7

NUMBERS

FD 52 098 0460 APD 80-6 (27)

DESIGN ENGINEER

ORM NO. 8 FORMS. DWG

⚠ REVISED 11-15-10

Section 7: Station 758+80 to 845+00

- 1. Clearing and grubbing of embankment areas shall be completed in accordance with Section 202 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction.
- 2. Removal of existing structures and other obstructions shall be completed in accordance with Section 203 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction.
- 3. All water wells within the limits of construction, whether shown on the plans or not, shall be plugged in accordance with requirements of Section 708 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction.
- 4. All catch basins and manholes shall be filled and capped, and all septic tanks shall be cleaned and filled in accordance with Section 708 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction.
- 5. Procedures shall be performed as required to control erosion and water pollution in accordance with Sections 212 and 213 of the Kentucky Department of Highways Standard Specifications for Road and Bridge Construction.
- 6. All channel changes and special ditches shall be constructed prior to placement of any embankment materials adjacent to them in accordance with Section 206 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction. At the direction of the Engineer, materials excavated from these areas may be utilized in construction of the embankments, but may require aeration to the proper moisture contents prior to compaction operations. No extra payment shall be permitted for rehandling, hauling, stockpiling and/or manipulating these materials. Only sandstones and durable shales shall be utilized for Class IV channel lining. All non-durable shales shall be excluded from use as channel lining.
- 7. In accordance with Section 206 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction, the moisture content of embankment material shall not vary from the optimum moisture content, as determined by KM 64-511, by more than plus or minus two percent. This moisture content requirement shall have equal weight with the density requirement when determining the acceptability of embankment or subgrade construction. Refer to the Family of Curves tor moisture-density relationships.
- 8. All soils, whether from roadway excavation or borrow, may require manipulation to obtain proper moisture content prior to compaction. Direct payment shall not be permitted for rehandling, hauling, stockpiling and/or manipulating soils.
- 9. The Contractor is responsible for conducting any operations necessary (such as construction of temporary drainage ditches, etc.) in order to excavate the cut areas to the required typical sections. These operations shall be incidental to the roadway excavation price.
- 10.Any saturated, soft, unstable areas encountered within embankment foundation limits and/or any other areas as specified by the Engineer shall be drained. Saturated, soft, unstable areas were noted at the following locations.

Approximate Station Limits Mainline

791+00 - 793+00

11. The Contractor shall conduct grading operations in such a manner that durable sandstone and durable shale obtained from roadway excavation shall be stockpiled separately or otherwise manipulated so that ample quantities are available for those areas requiring said materials. No direct payment will be allowed for such necessary manipulation as stockpiling and/or double handling the material. Durable sandstone and durable shale shall not be wasted unless prior

12.All roadway embankments shall be constructed using durable shale and/or durable sandstone, obtained from roadway excavation, from groundline up to roadway grade. Nondurable shales, coal and underclays shall be wasted and not utilized in the roadway embankments.

approval is obtained from the Engineer.

13. Embankment foundation benches shall be constructed into bedrock and perforated pipe underdrains shall be placed at the following approximate locations in accordance with current Kentucky Department of Highways Standard Drawings RGX-010 and RDP-006, project cross-sections, and as directed by the Engineer. The benches shall be constructed one at a time beginning with the lowest bench. Each bench shall be backfilled prior to excavation of the next bench. This procedure shall be followed to help maintain stability of the new embankments and existing slopes in these areas.

> Approximate Station Limits Mainline

> > 765+75 - 766+75 834+75 - 835+25

14. Any coal encountered at planned grade or within a zone four (4) feet below planned grade shall be removed to a depth of four (4) feet below planned grade. The Contractor shall not perform additional undercutting to recover coal unless prior approval of the Engineer has been obtained. Any such undercutting at or near grade for recovery of coal shall be backfilled with durable sandstone in two (2) foot lifts, and positive drainage shall be maintained through the cut using eight (8) inch perforated pipe underdrains, as applicable. Potential coal at or within four (4) feet of planned grade exists at these approximate station intervals.

Roadway Portion Approximate Station Limits

Mainline	773+50 - 777+50
	820+00 - 822+00
Ramp 1	200+00 - 203+00

15. Transverse benches shall be constructed and perforated pipe underdrains shall be installed at the following approximate locations in accordance with Kentucky Department of Highways Standard Drawings RDP-005 and RDP-006, project crosssections, and as directed by the Engineer. Contrary to Standard Drawing RDP-006, transverse benches and perforated pipe underdrains shall be installed in both uphill and downhill transition areas between cuts and fills.

> Approximate Station Mainline

> > 822+60

16. Perforated pipes for subgrade drainage shall be installed at vertical sags and at the upgrade ends of structures, in accordance with Standard Drawing RDP-005 and/or as directed by the Engineer. Contrary to Standard Drawing RDP-005, such drains shall be installed even when a rock roadbed is being constructed. These drainage features shall be installed at the following approximate locations.

<u>Poadway Portion</u>	<u>Approximate</u>	Static
Mainline	775+00	
Ramp 1	201+20	
Ramp 2	314+40	
KY 80	54+00	
KY 80	56+00	
KY 80	88+40	

17. Colluvial soils are present at the following approximate locations:

Approximate Station Limits Roadway Portion

Mainline	787+50 - 789+00
	802+00 - 803+00
KY 80	64+50 - 67+00

Cut slopes constructed in these materials have been found to be relatively unstable for long term performance. Construction in these areas shall be performed as shown on the project cross-sections and as directed by the Engineer.

18. Intermediate benches between elevations 1010.0 and 1070.0 shall be constructed between approximate Stations 202+00 and 204+00 as shown on the project cross-sections, and as directed by the Engineer. The purpose of the intermediate benches is to control water runoff and erosion within the non-durable shale.

- 19. Any vertical mine or air shaft under a proposed embankment, whether shown on the plans or not, shall be filled with broken stone (durable sandstone or durable shale) from roadway excavation and capped with an eight (8) inch reinforced concrete slab. The slab shall be in accordance with Section 708 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction.
- 20. Any mine tunnels or horizontal auger openings in mined-out areas below grade <u>which show signs of subsidence</u>, whether shown on the plans or not, shall be thoroughly investigated at the direction of the Engineer by rock coring, probing or other means. The openings shall be collapsed or undercut and backfilled with broken stone (durable sandstone or durable shale - SDI 95 or greater) from roadway excavation. The material shall be backfilled in accordance with Section 206. At the direction of the Engineer, pneumatic backstowing of crushed stone (maximum size 40 mm with no more than 5% passing the No. 100 sieve) may be utilized to backfill openings which are inaccessible or difficult to backfill by other means. If feasible, positive drainage of the tunnels or openings shall be provided through use of pipe underdrains or other suitable drainage features. Pipes and other materials used for drainage shall be paid for at the unit bid price for those items. Pneumatic backstowing or other special equipment shall be paid for at the unit bid price per ton of backstowed material. Potential mine tunnels or horizontal auger openings in mined out areas below grade have been identified within the following station interval.

Approximate Station Limits Mainline

759+00 - 763+00

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Approximate Station Limits Ramp 1

214+00 - 217+00

Controlled Embankment at John Moore Branch

22. All notes and recommendations regarding preparation of areas to receive fill, as presented in FMSM's January 2001 "Geotechnical Engineering Report, US 460 Relocation, Sections 7, 8 and 8A, Beaver Creek to Grassy Creek", remain applicable.

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the excess spoil.

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26. Upon completion of the controlled embankment and prior to future development of the site at John Moore Branch, it is recommended that site specific geotechnical explorations be performed that are designed specifically for that type of proposed development. Depending on the type of structure to be built, additional foundation improvement techniques such as preloading, dynamic compaction, excavation/replacement of materials, or deep foundation elements may be required. Because the specifics of future development at the site cannot be defined at this time, this report does not contain any conclusions or recommendations regarding how this controlled embankment may need to be constructed or improved to accommodate such development.

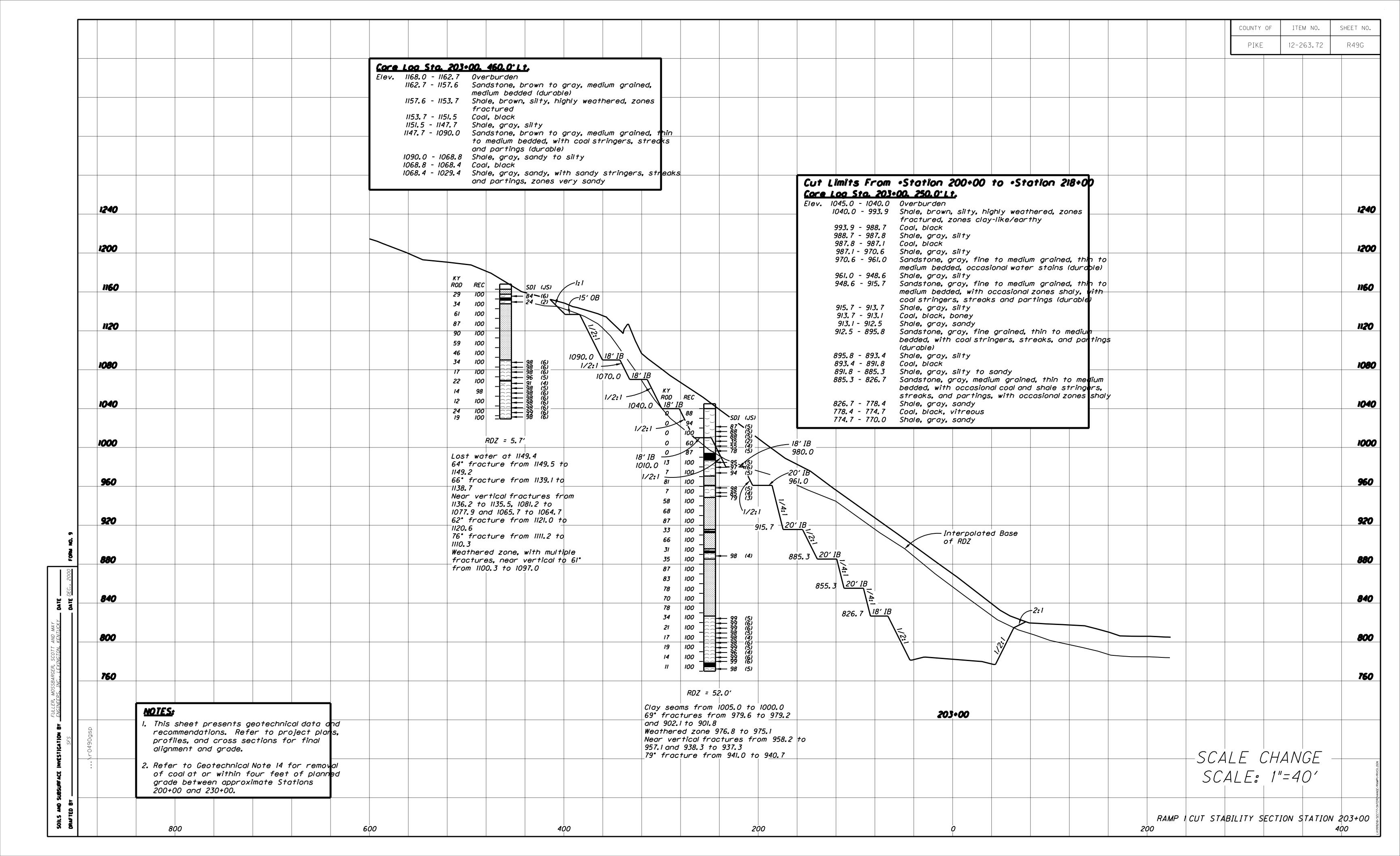
KENTUCKY DEPARTMENT OF HIGHWAYS **COUNTY OF PIKE**

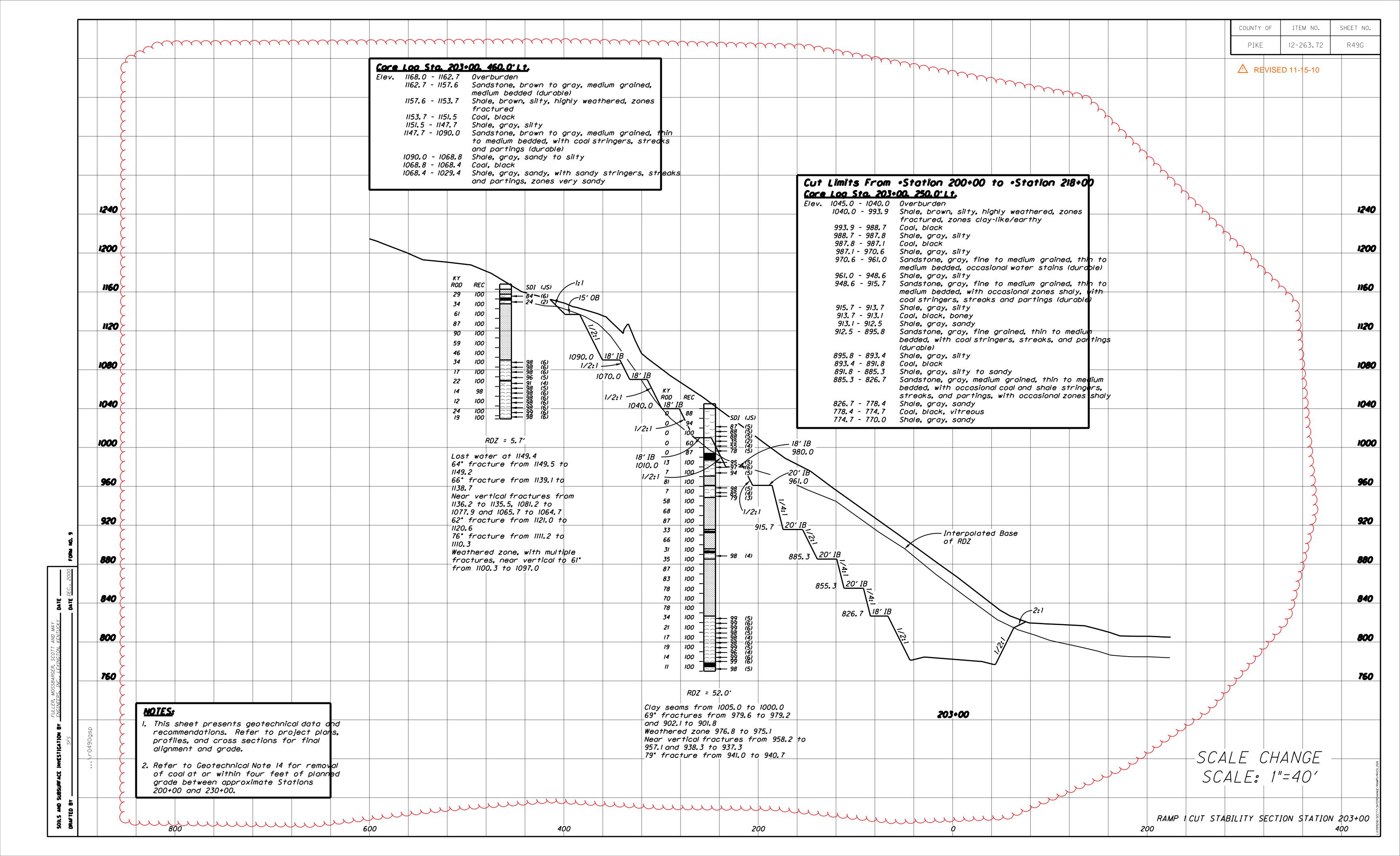
US 460 SECTION 7 PROJECT

NUMBERS

FD	52	098	04
ΛРГ) 8(7-6	(27)

DESIGN ENGINEER





SPECIAL NOTE FOR FUEL ADJUSTMENT

Contrary to Standard Specification 109.07.02, the fuel/work ratio for Roadway Excavation on this project will be 0.38.

PI**SY 69161**Y APD 80-6(27) **16 NOV 2010**

KENTUCKY TRANSPORTATION CABINET COMMUNICATING ALL PROMISES (CAP)

Page:

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1

<u>Item No.</u> 12 - 263.72 <u>Project Mgr.</u> JOHN MICHAEL JOHNSON

County PIKE Route US-460

CAP # Date of Promise Promise made to: Location of Promise

1 06-DEC-07 Brad Eldridge Highway Design

CAP Description

VERIFY LOCATION OF 20' FB CHANNEL ON SHEET R05 WITH THE RESIDENT ENGINEER PRIOR TO CONSTRUCTION. THE LOCATION MAY SHIFT SLIGHTLY DUE TO THE PROPOSED LOCATION OF BRIDGE PIERS.

2 12-AUG-08 Brad Eldridge Highway Design

CAP Description

DISREGARD CAP#1. INSTEAD, VERIFY LOCATION OF 2' FLAT BOTTOM CHANNEL ON SHEET R05 WITH THE RESIDENT ENGINEER PRIOR TO CONSTRUCTION. THE LOCATION MAY SHIFT SLIGHTLY DUE TO THE PROPOSED LOCATION OF BRIDGE PIERS.

3 19-JUN-09 J. M. Johnson / Dave D-12

Skeens

CAP Description

IF CONTRACTOR DECIDES TO PLACE FILL IN THE AREA OF THE KY POWER POLE AT APPROX. KY 80 STATION 82+70, 250' +/- RIGHT (CORNER OF THURMAN ELSWICK PROPERTY, SHEET R05), CONTRACTOR WILL BE RESPONSIBLE FOR HAVING ALL LINES RAISED TO SUIT COMPANY SPECIFICATIONS. THIS INCLUDES POWER, CABLE AND TELEPHONE. ANY CHANGES TO THE UNDERGROUND CONDUIT AND WIRES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND MUST BE APPROVED BY THE RESPECTIVE COMPANIES.

4 19-JUN-09 J. M. Johnson / Dave D-12

Skeens

CAP Description

TWO GAS LINES BELONGING TO EQUITABLE RESOURCES ARE LOCATED WITHIN THE JOHN MOORE BRANCH WASTE AREA. CONTRACTOR MAY PLACE FILL MATERIAL OVER THE GAS LINES BUT MUST CONTACT EQUITABLE PRIOR TO COMMENCEMENT OF CLEARING. EQUITABLE WILL LOCATE THE LINES AND MARK THE DEPTH TO ENSURE NO EQUIPMENT WILL HIT THE LINE DURING OPERATIONS. THE LINES ARE LOCATED AT APPROXIMATE STATION 15+00 OF THE OSCAR WRIGHT HOLLOW BASELINE (SHEET R15H) AND RIGHT OFAPPROXIMATE STATION 130+00 - 140+00 OF THE JOHN MOORE BRANCH WASTE AREA (SHEET R15F)

5 16-NOV-10 J. M. Johnson D-12

CAP Description

CAP NOTE #3 NO LONGER APPLIES SINCE ALL MATERIAL FROM THE PROJECT IS TO BE PLACED IN JOHN MOORE BRANCH.

KENTUCKY TRANSPORTATION CABINET DEPARTMENT OF HIGHWAYS FRANKFORT, KY 40622

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CONTRACT ID: 101338

COUNTY: PIKE

PROPOSAL: APD 80-6(27)

PAGE: 1 LETTING: 11/19/10 CALL NO: 100

LINE NO	ITEM 	DESCRIPTION	APPROXIMATE U QUANTITY		UNIT PRICE	AMOUNT
	SECTION 0001	PAVING				
0010	00003	CRUSHED STONE BASE (REVISED: 11-16-10)	9,862.000	TON		
0020	00100 	ASPHALT SEAL AGGREGATE	51.000 	TON		
0030	00208	CL4 ASPH BASE 1.50D PG64-22 (REVISED: 11-16-10)	6,142.000 	TON		
0040	00214	CL3 ASPH BASE 1.00D PG64-22	917.000	TON		
0050	00217 	CL4 ASPH BASE 1.00D PG64-22	3,039.000 	TON		
0060	00221	CL2 ASPH BASE 0.75D PG64-22	219.000	TON		
0070	00291 	EMULSIFIED ASPHALT RS-2	6.100	TON		
0080	00301 	CL2 ASPH SURF 0.38D PG64-22	66.000 	TON		
0090	00312	CL3 ASPH SURF 0.50D PG64-22 (REVISED: 11-16-10)	410.000 	TON		
0100	00327	CL4 ASPH SURF 0.50B PG64-22	1,120.000	TON		
	SECTION 0002	ROADWAY				
0110	00078 	CRUSHED AGGREGATE SIZE NO 2	2.000	TON		
0130	01982 	DELINEATOR FOR GUARDRAIL-WHITE	11.000	EACH		
0140	02014 	BARRICADE-TYPE III	14.000	EACH		
0150	02159 	TEMP DITCH	18,163.000 	LF		
0160	02200 	ROADWAY EXCAVATION (REVISED: 11-16-10)	6,123,854.000	CUYD		
0170	02242 	WATER	200.000	MGAL		
0180	02262 	FENCE-WOVEN WIRE TYPE 1	11,852.000 	LF		
0190	02351 	GUARDRAIL-STEEL W BEAM-S FACE	3,775.000	LF		
0200	02360 	GUARDRAIL TERMINAL SECTION NO 1	4.000	EACH		

KENTUCKY TRANSPORTATION CABINET DEPARTMENT OF HIGHWAYS FRANKFORT, KY 40622

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PAGE: 2

CONTRACT ID: 101338

COUNTY: PIKE PROPOSAL: APD 80-6(27)

LETTING: 11/19/10 CALL NO: 100

LINE NO	ITEM 	DESCRIPTION	APPROXIMATE U	JNIT	UNIT PRICE	AMOUNT
0210	02367	GUARDRAIL END TREATMENT TYPE 1	4.000	EACH		
0220	02429 	RIGHT-OF-WAY MONUMENT TYPE 1	42.000	EACH	 	
0230	02431 	WITNESS R/W MONUMENT TYPE 2	3.000	EACH		
0240	02432 	WITNESS POST	42.000	EACH		
0250	 02488 	CHANNEL LINING CLASS IV	14,533.000	CUYD	 	
0251	02542 	CEMENT (ADDED: 11-16-10)	9.000	TON		
0260	02545 	CLEARING AND GRUBBING (291 ACRES)	(1.00)	LS		
0270	02562 	SIGNS	474.000 	SQFT		
0280	02570 	PROJECT CPM SCHEDULE	(1.00)	LS		
0290	02585 	EDGE KEY	44.000	LF		
0300	02600 	FABRIC GEOTEXTILE TY IV FOR PIPE	6,779.000	SQYD	2.00	13,558.00
0310	02650 	MAINTAIN & CONTROL TRAFFIC	(1.00)	LS		
0320	02651 	DIVERSIONS (BY-PASS DETOURS)	1.00)	LS		
0330	02653 	LANE CLOSURE	2.000	EACH		
0340	 02671 	PORTABLE CHANGEABLE MESSAGE SIGN	3.000	EACH		
0341	 02690 	SAFELOADING (ADDED: 11-16-10)	43.000	CUYD		
0350		TEMP SILT FENCE	18,163.000 	LF		
0360	02703 	SILT TRAP TYPE A	 291.000 	EACH		
0370	02704 	SILT TRAP TYPE B	291.000	EACH	<u>-</u> -	
0380	 02705 	SILT TRAP TYPE C	291.000	 EACH 	<u>-</u> -	
0390	: 02706 	CLEAN SILT TRAP TYPE A	1,746.000	EACH	- -	
	· 					

KENTUCKY TRANSPORTATION CABINET DEPARTMENT OF HIGHWAYS FRANKFORT, KY 40622

Revised: 11-16-10 Revised: 11-5-10 Contract ID: 101338 Page 157 of 160

CONTRACT ID: 101338

COUNTY: PIKE PROPOSAL: APD 80-6(27)

PAGE: 3 LETTING: 11/19/10

CALL NO: 100

LINE NO	 ITEM 	DESCRIPTION	APPROXIMATE UNIT QUANTITY	UNIT PRICE	AMOUNT
0400	02707 	CLEAN SILT TRAP TYPE B	1,746.000 EACH		
0410	02708 	CLEAN SILT TRAP TYPE C	1,746.000 EACH		
0420	02709 	CLEAN TEMP SILT FENCE	18,163.000 LF		
0430	02726 	STAKING	(1.00) LS		
0440	02775 	ARROW PANEL	2.000 EACH		
0450	03171 	CONCRETE BARRIER WALL TYPE 9T	2,620.000 LF		
0460	04772 	HPS LUMINAIRE OFFSET	3.000 EACH		
0470	04933 	TEMP SIGNAL 2 PHASE	3.000 EACH		
0480	05950 	EROSION CONTROL BLANKET	262,660.000 SQYD		
0490	05952 	TEMP MULCH	1,409,408.000 SQYD		
0500	05953 	TEMP SEEDING AND PROTECTION	1,409,408.000 SQYD 		
0510	05966 	TOPDRESSING FERTILIZER	72.940 TON		
0520	05985 	SEEDING AND PROTECTION	1,318,207.000 SQYD		
0530	05989 	SPECIAL SEEDING CROWN VETCH	343,440.000 SQYD		
0540	06510 	PAVE STRIPING-TEMP PAINT-4 IN	32,102.000 LF		
0550	06514 	PAVE STRIPING-PERM PAINT-4 IN	14,008.000 LF		
0560	06568 	PAVE MARKING-THERMO STOP BAR-24IN	48.000 LF		
0570	08100 	CONCRETE-CLASS A	12.550 CUYD 		
0580	08150 	STEEL REINFORCEMENT	700.000 LB		
0590	 10020NS 	FUEL ADJUSTMENT (REVISED: 11-16-10)	896,341.000 DOLL	1.00	896,341.00
0600	10030NS 	ASPHALT ADJUSTMENT (REVISED: 11-16-10)	28,700.000 DOLL	1.00	28,700.00

KENTUCKY TRANSPORTATION CABINET DEPARTMENT OF HIGHWAYS FRANKFORT, KY 40622

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CONTRACT ID: 101338

COUNTY: PIKE PROPOSAL: APD 80-6(27)

PAGE: 4 LETTING: 11/19/10

CALL NO: 100

LINE NO			APPROXIMATE (QUANTITY	!	UNIT PRICE	AMOUNT
0610	20667ED 	PNEUMATIC BACKSTOWING	700.000	TON		
0620	23131ER701 	PIPELINE VIDEO INSPECTION	917.000	LF		
	SECTION 0003	DRAINAGE				
0630	00440 	ENTRANCE PIPE-15 IN	28.000	LF		
0640	00462 	CULVERT PIPE-18 IN	176.000 	LF		
0650	00464 	CULVERT PIPE-24 IN	46.000	LF		
0660	00522 	STORM SEWER PIPE-18 IN	845.000	LF		
0670	00524 	STORM SEWER PIPE-24 IN	50.000	LF		
0680	00526 	STORM SEWER PIPE-30 IN	171.000	LF		
0690	00528 	STORM SEWER PIPE-36 IN	545.000 	LF		
0700	01000 	PERFORATED PIPE-4 IN	70.000	LF		
0710	01010 	NON-PERFORATED PIPE-4 IN	20.000	LF		
0720	01020 	PERF PIPE HEADWALL TY 1-4 IN	1.000	EACH		
0730	01028 	PERF PIPE HEADWALL TY 3-4 IN	1.000	EACH		
0740	01450 	S & F BOX INLET-OUTLET-18 IN	2.000	EACH		
0750	01451 	S & F BOX INLET-OUTLET-24 IN	1.000	EACH		
0760	 01452 	S & F BOX INLET-OUTLET-30 IN	4.000	EACH		
0770	 01453 	S & F BOX INLET-OUTLET-36 IN	3.000	EACH		
0780	01493 	DROP BOX INLET TYPE 2	4.000	EACH		
0790	 01496 	DROP BOX INLET TYPE 3	2.000	EACH		
0800	 01499 	DROP BOX INLET TYPE 4	5.000	EACH		

KENTUCKY TRANSPORTATION CABINET DEPARTMENT OF HIGHWAYS FRANKFORT, KY 40622

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CONTRACT ID: 101338

COUNTY: PIKE

PROPOSAL: APD 80-6(27)

PAGE: 5 LETTING: 11/19/10 CALL NO: 100

LINE NO	ITEM 	DESCRIPTION	APPROXIMATE UNIT QUANTITY	UNIT PRICE	AMOUNT
0810	01756	MANHOLE TYPE A	2.000 EACH		
0820	01767 	MANHOLE TYPE C	1.000 EACH		
0830	20569ES710 	DROP BOX INLET TY 13G(MOD) (MODIFIED)	4.000 EACH	 	
0840	20570ES710 	DROP BOX INLET TY 13S(MOD) (MODIFIED)	1.000 EACH		
	SECTION 0004	BRIDGE			
0850	08002 	STRUCTURE EXCAV-SOLID ROCK	413.400 CUYD	 	
0860	08003 	FOUNDATION PREPARATION (25258)	(1.00) LS	 	
0870	08003	FOUNDATION PREPARATION (25259)	(1.00) LS		
0880	08003	FOUNDATION PREPARATION (25260)	(1.00) LS		
0890	08003	FOUNDATION PREPARATION (26555)	(1.00) LS		
0900	08100 	CONCRETE-CLASS A	352.200 CUYD	 	
0910	08150 	STEEL REINFORCEMENT	42,159.000 LB	 	
	SECTION 0005	UTILITY			
0920	01065 	STEEL ENCASEMENT PIPE-8 IN	100.000 LF	 	
0930	01073	STEEL ENCASEMENT PIPE-16 IN	100.000 LF		
0940	01095 	DUCTILE IRON PIPE-8 IN	590.000 LF		
0950	03460 	TIE-IN TO WATER LINE	6.000 EACH	 	
0960	03494 		2.000 EACH	 	
0970	03528	GATE VALVE-8 IN	2.000 EACH		
0980	21353ND 	TIE-IN TO FORCE MAIN	6.000 EACH	 	
0990	23013EN	SANITARY SEWER FORCE MAIN	280.000 LF		
	SECTION 0006	DEMOBILIZATION / MOBILIZATION			

KENTUCKY TRANSPORTATION CABINET DEPARTMENT OF HIGHWAYS FRANKFORT, KY 40622

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COUNTY: PIKE PROPOSAL: APD 80-6(27)

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CALL NO: 100

LINE NO	 ITEM 	DESCRIPTION		APPROXIMATE UNIT QUANTITY	UNIT PRICE	AMOUNT
1000	02568 	MOBILIZATION	(NO MORE THAN 5%)	LUMP		
1010	02569 	DEMOBILIZATION	(AT LEAST 1.5%)	LUMP		
		TOTAL BID				