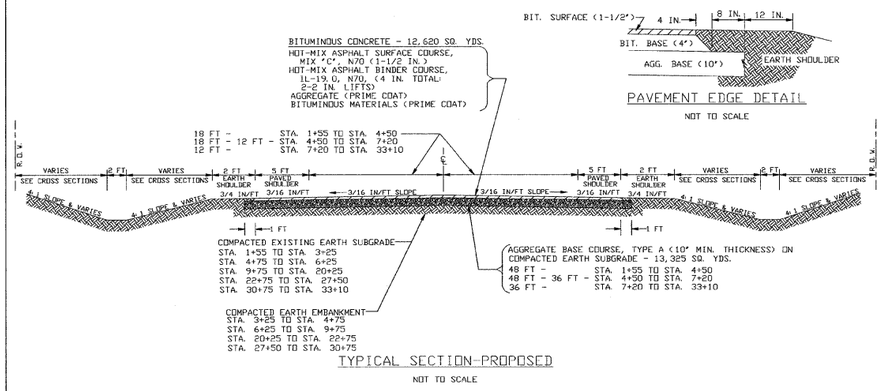
F. A. U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9732	00-00103-00-FP	JACKSON	37	2
CITY OF CARBONDALE		PROJECT NO.	M-5008(19)	
CONTRACT NO. 99182		JOB NO.	C99-504-03	

FEDERAL AID PROJECT

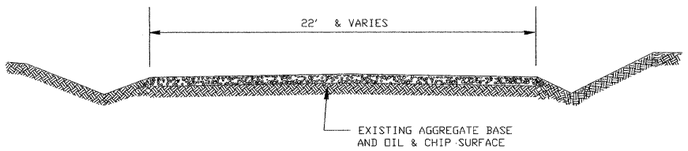


PAVEMENT EDGE DETAIL

NOT TO SCALE

TYPICAL SECTION-PROPOSED

NOT TO SCALE



TYPICAL SECTION-EXISTING

NOT TO SCALE

STRUCTURAL DESIGN DATA

DESIGN PERIOD = 20 YEARS

STRUCTURAL DESIGN TRAFFIC: YEAR 2023

PV = 3,070 SU = 70 MU = 50

ROAD/STREET CLASSIFICATION: CLASS II

PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:

P = 50 S = 50 M = 50

TRAFFIC FACTOR = TF = 0.2232

MINIMUM SOIL SUPPORT: IBR = 3.9

MATERIAL COEFFICIENTS:

AGGREGATE BASE COURSE, TYPE A-0.13
BITUMINOUS CONCRETE BINDER COURSE - 0.33
BITUMINOUS CONCRETE SURFACE COURSE -0.40

GENERAL NOTES REGARDING PLANS:

1. THE EXISTENCE, POSITION, SIZE AND TYPE OF ALL UNDERGROUND UTILITIES ARE APPROXIMATE AS SHOWN, BEING LOCATED BY ELECTRONIC DETECTION EQUIPMENT, BY VISUAL OBSERVATION, FROM UTILITY COMPANY MAPS AND BY VERBAL TESTIMONY OF EMPLOYEES FROM APPROPRIATE UTILITY COMPANY, VERIFICATION OF THE EXISTENCE, POSITION, SIZE AND TYPE SHOULD BE REQUESTED PRIOR TO ANY CONSTRUCTION.

2. THE ACCURACY OF THE HORIZONTAL AND VERTICAL TOPOGRAPHIC FEATURES DEPICTED HEREON WERE DERIVED BY SURVEY METHODS THAT EXCEED THE ACCURACY OF THE PLOTTED DOCUMENT AS DEFINED BY THE MAP SCALE. THE USE OF THIS SURVEY INFORMATION IN A DIGITAL ENVIRONMENT, CADD OR GIS SHALL NOT BE RELIED UPON TO AN ACCURACY GREATER THAN THAT OF THE MAP SCALE.

3. FOR CONSTRUCTION LAYOUT PURPOSES THE POSITION OF ALL PROPOSED IMPROVEMENTS ESTABLISHED FOR THIS PROJECT SHALL BE DEVELOPED FROM INFORMATION SHOWN ON THE PLOTTED DOCUMENT AND SHALL NOT BE DERIVED FROM INFORMATION OBTAINED FROM A DIGITAL ENVIRONMENT UNLESS OTHERWISE VERIFIED.

*TREE REMOVAL (UNDER 6 UNITS DIAMETER) WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT. SEE SPECIFICATIONS

SCHEDULE: TREE REMOVAL

LOCATION (STATION)	OFFSET	TREE REMOVAL, (ACRES) UNIT	TREE REMOVAL, (ACRES) ACRE	TREE REMOVAL (6 TO 15 UNITS DIAMETER) UNIT	TREE REMOVAL (OVER 15 UNITS DIAMETER) UNIT	TREE REMOVAL (UNDER 6 UNITS DIAMETER)* UNIT
6+38	26' RT			12		
6+39	26' RT			8		
6+46	28' RT				16	
6+53	28' RT					X
7+25 TO 8+85	RIGHT		0.14			
13+50 TO 13+70	LEFT		0.02			
13+85 TO 20+75	LEFT		0.40			
17+70 TO 18+10	LEFT		0.03			
19+15	32' RT			16		
19+23	32' RT			12		
19+31	30' RT			15		
19+86	29' RT				60	
21+89	15' LT				30	
23+53	28' LT				50	
24+24	27' RT			14		
24+26	27' RT			14		
24+27	27' RT			9		
25+67	16' LT				16	
25+67	17' LT			6		
25+67	18' LT			12		
25+67	20' LT			6		
25+67	21' LT			6		
25+98	28' RT				18	
26+43	28' RT				16	
26+56	33' RT			15		
27+01	33' RT			12		
27+36	33' RT				18	
25+80 TO 27+40	LEFT		0.08			
28+02	35' RT			10		
28+90	28' RT			10		
27+55 TO 30+00	LEFT		0.20			
30+00 TO 32+91	LEFT		0.25			
29+25	37' RT			14		
29+43	36' RT			14		
29+79	37' RT			8		
29+97	35' RT			12		
30+07	35' RT				16	
30+24	36' RT				20	
30+70	34' RT			14		
31+43	30' RT			15		
31+58	31' RT				18	
31+88	34' RT				18	
32+07	34' RT			11		
32+34	34' RT				18	
TOTALS			1.12	265	314	1*

*CULVERT REMOVAL WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT. SEE SPECIFICATIONS

SCHEDULE: STORMWATER CULVERTS (INSTALLATION & REMOVAL)

INLETS (INSTALLATION & REMOVAL)

TRENCH BACKFILL, RIPRAP

LOCATION (STATION)	OFFSET	PIPE CULVERTS, TYPE 1 RCCP 12" FOOT	PIPE CULVERTS, TYPE 1 RCCP 15" FOOT	PIPE CULVERTS, TYPE 1 RCCP 18" FOOT	PIPE CULVERTS, TYPE 1 RCCP 24" FOOT	PIPE CULVERTS, TYPE 2 RCCP 24" FOOT	PIPE CULVERTS, TYPE 1 RCCP 36" FOOT	PIPE CULVERTS, CLASS A, TYPE 1 8' FOOT	STORM SEWERS (WATER MAIN REQUIREMENTS) TYPE 1, 15" FOOT	STORM SEWERS (WATER MAIN REQUIREMENTS) TYPE 1, 18" FOOT	STORM SEWERS (WATER MAIN REQUIREMENTS) TYPE 1, 24" FOOT	STORM SEWERS (WATER MAIN REQUIREMENTS) TYPE 2, 30" FOOT	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12" EACH	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15" EACH	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18" EACH	PRECAST REINFORCED CONCRETE FLARED END SECTION 24" EACH	PRECAST REINFORCED CONCRETE FLARED END SECTION 30" EACH	PRECAST REINFORCED CONCRETE FLARED END SECTION 36" EACH	TRENCH BACKFILL CU YD	CULVERT REMOVAL (FT.)* 8"	12"	15"	18"	STONE DUMPED RIPRAP, CLASS A3 TON	REMOVING INLETS EACH	FLUSH INLET BOX FOR MEDIAN, STANDARD 542546 EACH	INLETS, SPECIAL, TYPE 1 EACH	INLET TYPE A, TYPE 15 FRAME & LID EACH	MANHOLE, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID EACH	MANHOLE, TYPE A, SPECIAL, 4'DIA, TYPE 1 FR & CL LID EACH	DRAINAGE STRUCTURES TO BE ADJUSTED EACH
1+50 TO 1+99	29.5' LT TO 28' LT																		10	30		49								
1+73.8 TO 1+86.1	42.9' LT TO 49.5' LT																					8								1
2+00	28.5' LT																						1							
2+45 TO 2+63	36' RT TO 27' RT																					10								
6+15 TO 6+51	6' LT TO 5' LT																				36									
6+58 TO 6+78	23' RT																				20									
8+41 TO 8+46	4' LT TO 29' RT																					33								
8+61 TO 9+38	5' LT TO 3.5' LT																					77								
11+83.5	5' LT TO 24' LT																		10		18			1						
11+84.5 TO 11+96.5	5' LT																		5		12									
11+97	5' LT																		5					1						
11+97 TO 12+00	4' LT TO 28' RT																		10			32								
12+00	30' RT																						1							
11+95 TO 12+00	45' RT TO 33' RT																					14								
11+99 TO 13+67	5' LT																		60			168								
13+35	5' LT TO 31' LT																		5			26								
13+57	43.4' RT																						1							
17+51.5	6.5' LT TO 23.5' RT																		10	30										
17+53 TO 17+77	25.5' RT TO 25' RT																		5		24									
17+90.5 TO 18+30.5	25' RT TO 24' RT																		5		40									
20+66	11' LT TO 25' RT																		20			36								
22+69 TO 23+53	10' LT TO 11' LT																		7		84									
22+70.6 TO 22+82	25.3' RT TO 36.1' RT																				10									1
22+87 TO 23+30	20' RT																		6		43									
25+35 TO 25+67	20' RT																		5		32									
33+02	5' LT TO 31' RT																		10				36							
3+24 TO 4+12	38' LT TO 36' LT			72										2					12										1	
6+50 TO 6+88	31' RT TO 32' RT	26											2																	
8+22 TO 8+71	43' LT TO 28' RT									86						1			20			10				1				
8+71	28' RT TO 68' RT				20										1							10								
8+73.5 TO 11+82	28' RT			152	157														35											
8+81 TO 9+31	38' LT		38										2						10											
11+11 TO 11+63.5	28' LT TO 23' LT		48										1						5											
11+65 TO 11+82	23' LT		16																5						1					
11+83.5	23' LT TO 28' RT								48										15					2						
11+85 TO 12+01	28' RT	10												1																
11+85 TO 12+48.5	23' LT			64																										
12+50	23' LT																							1						
12+51.5 TO 13+33.5	23' LT			82															10											
13+04 TO 13+76.1	29' RT	57											2						5						2					
13+33 TO 13+35	39.5' LT TO 23' LT			9								1												1						
13+36.5 TO 13+68.5	23' LT TO 26' LT		26										1																	
13+58 TO 13+81.5	30' RT TO 60' RT						40													28											
17+39.5 TO 18+40.5	31.5' RT	86											2						10					1						
17+86 TO 17+88	33' RT TO 49' RT		10											1								10								
17+86	30' RT TO 34' LT			58											1				15			10								
20+64.5 TO 20+73	38' LT TO 27.2' RT								60						1				15											
20+67.5 TO 20+72	36' RT TO 30.5' RT	7																			7									
20+73.2 TO 20+89	29' RT							8				1																	1	
25+20 TO 25+84	30' RT	52											2						10											
32+59.5	30' RT TO 30' LT				48											2		1	15			20								
TOTALS		238	138	285	200	157	20	40	8	60	48	86	9	6	5	2	1	1	345	58	375	386	44	70	5	1	5	2	1	2	2

SEE PLAN AND PROFILE SHEETS 4 THRU 9 FOR DIMENSIONS OF NEW DRIVEWAYS. SEE SPECIFICATIONS FOR REMOVAL OF EXISTING BITUMINOUS CONCRETE DRIVEWAYS AND CONSTRUCTION OF NEW BITUMINOUS CONCRETE AND AGGREGATE DRIVEWAYS.

SCHEDULE: DRIVEWAY & PCC PAVEMENT

LOCATION (STATION)	OFFSET	DRIVEWAY PAVEMENT REMOVAL SQ. YDS	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT (8") SQ. YDS	BITUMINOUS CONCRETE DRIVEWAY SURFACE SQ. YD	AGGREGATE DRIVEWAY SURFACE SQ. YD	AGGREGATE BASE COURSE, TYPE A (8") TON	BITUMINOUS MATERIALS (PRIME COAT) GAL	AGGREGATE (PRIME COAT) TON	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, (1 1/2") TON	HOT-MIX ASPHALT SURFACE COURSE MIX "C", N70 (1 1/2") TON	AGGREGATE SURFACE COURSE (6") TON	PCC PAVEMENT (8")* SQYD	AGGREGATE BASE COURSE, TYPE A (4") TON
1+12 TO 1+56	18' LT TO 23' LT											24	7
2+03 SRR	23' RT TO 59' RT		97		44	31	0.3	9	9				
3+00.6 CER	25' RT TO 32' RT	32	33										8
3+76.4 CEL	23' LT TO 59.2' LT		117		54	38	0.35	10	10				
4+23 CER	25' RT TO 70' RT		28	93							34		11
5+39 PER	±23' RT TO 36' RT		84										
5+81.5 CEL	±20' LT TO ±50' LT			125	57	40	0.4	11	11				
6+68.5 PER	±19' RT TO ±49.5' RT			63	29	20	0.2	5	5				
9+06 CEL	41' LT TO ±89' LT	285											
9+06 CEL	17' LT TO ±89' LT		225										53
9+12 FER	17' RT TO 102' RT												
10+08 CER	17' RT TO 40' RT			90	40	29	0.25	8	8				
11+65 CEL	±C. TO 28.5' LT	125											
11+65 CEL	17' LT TO 28.5' LT		33										8
13+14.5 CEL	17' LT TO 37' LT			70	32	23	0.25	7	7				
13+39.8 SRR	17' RT TO 42.1' RT			91	42	29	0.3	8	8				
17+67.5 CER	17' RT TO 40' RT			78	36	25	0.25	7	7				
18+08.5 CER	17' RT TO 65' RT			162	74	52	0.50	14	14				
20+48.3 CER	18.58' RT TO 40' RT	68.5	68.5										14
23+07.3 CER	17' RT TO 40' RT	79	83.5										18
23+11.6 CEL	18.58' LT TO 40' LT	128.5	92										19
25+52 CER	26' RT TO 58' RT	92											
25+52 CER	17' RT TO 58' RT		174										38
TOTALS		810	821	893	93	408	287	2.80	79	79	34	24	176

*THIS ITEM OF WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD FOR PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT (8")

CIP NO. STO102 - REED STATION ROAD

TYPICAL SECTIONS, MISCELLANEOUS SCHEDULES AND STRUCTURAL DESIGN DATA