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By: **DZ** Date: **06/25/2019** Subject: **Grading Quantities for Project PIN118852.01**
Chk'd By: **AP** Date: **02/19/2020** **SR 78 @ SR 182, Dyer County, TN**

203-01 ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)

For Roadway

Excavation = **29,423 CY**

For Erosion Control

Construction Entrances

$$\begin{aligned} 772 \text{ SF} & / 27 \text{ CF/CY} = 29 \text{ CY} \\ 0.25 \text{ FT} & \times 29 \text{ CY} \times 6 \text{ exits} = \mathbf{44 \text{ CY}} \end{aligned}$$

Temporary Berm

18" berm requires 9.75 SF/LF as per Guidelines

$$9.75 \text{ SF/LF} \times 0 \text{ LF} / 27 \text{ CF/CY} = \mathbf{0 \text{ CY}}$$

TOTAL for Erosion Control : **44 CY**

TOTAL EXC. = **29,467 CY** (use in balance calculations)

203-03 BORROW EXCAVATION (UNCLASSIFIED)

Embankment = **6,858 CY**

Shrinkage = **1.25**

$$1.25 \times \left(\frac{29,467 \text{ CY}}{1.25} - 6,858 \text{ CY} \right) = 20,900 \text{ CY}$$

$$1.25 \times (6,858 \text{ CY} - 29,467 \text{ CY}) = \mathbf{-28,270 \text{ CY}}$$

EARTHWORK TOTALS:	
TOTAL CUT (CY):	TOTAL FILL (CY):
29485	6858
S.R. 78:	
14526	762
LR 2723	
2626	2597
LR 2723 Connector	
926	7
LR 826	
1531	18
S.R. 182	
1461	2261
LR A900	
5549	1
EPSC	
44	
TOPSOIL	
2822	1212

EARTHWORK PROP. S.R. 78				
STATION	CUT AREA SF	FILL AREA SF	CUT Volume CY	FILL Volume CY
10200.00	0	0	0	0
10250.00	69	21	64	19
10270.70	168	55	91	29
10300.00	161	27	179	44
10350.00	149	22	287	45
10400.00	151	66	278	81
10450.00	165	84	293	139
10460.72	170	70	67	31
10500.00	80	0	182	51
10550.00	280	7	333	6
10600.00	334	0	569	6
10650.00	475	0	749	0
10700.00	686	0	1075	0
10750.00	773	0	1351	0
10800.00	803	0	1459	0
10850.00	771	0	1457	0
10900.00	730	0	1390	0
10950.00	696	0	1320	0
11000.00	629	0	1227	0
11050.00	74	0	651	0
11100.00	542	169	570	156
11125.00	590	79	524	115
11130.39	112	22	70	10
11145.00	140	11	68	9
11250.00	0	0	272	21
TOTAL			14526	762

EARTHWORK LR 2723

STATION	CUT AREA SF	FILL AREA SF	CUT Volume CY	FILL Volume CY
20012.07	0	0	0	0
20025.00	1	108	0	26
20050.00	2	285	1	182
20100.00	24	499	24	726
20112.07	40	520	14	228
20150.00	12	431	37	668
20200.00	15	185	25	570
20221.24	21	107	14	115
20250.00	55	8	40	61
20295.24	342	0	333	7
20313.24	431	0	258	0
20350.00	443	0	595	0
20400.00	292	0	681	0
20417.13	236	0	167	0
20435.13	170	0	135	0
20500.00	55	8	270	10
20530.00	0	0	31	4
TOTAL			2626	2597

EARTHWORK LR 2723 CONNECTOR

STATION	CUT AREA SF	FILL AREA SF	CUT Volume CY	FILL Volume CY
60000.00	10	0	0	0
60050.00	190	0	185	0
60075.00	244	0	201	0
60085.00	238	0	89	0
60090.00	237	0	44	0
60100.00	209	0	83	0
60125.00	131	0	157	0
60150.00	72	0	94	0
60190.00	26	10	73	7
TOTAL			926	7

EARTHWORK LR 826

STATION	CUT AREA SF	FILL AREA SF	CUT Volume CY	FILL Volume CY
30012.00	45	0	0	0
30025.00	12	33	14	8
30042.17	434	0	142	10
30050.00	438	0	126	0
30072.17	384	0	337	0
30085.00	328	0	169	0
30102.17	325	0	208	0
30117.17	251	0	160	0
30132.17	180	0	120	0
30150.00	158	0	112	0
30175.00	150	0	143	0
TOTAL			1531	18

EARTHWORK S.R. 182

STATION	CUT AREA SF	FILL AREA SF	CUT Volume CY	FILL Volume CY
40012.00	0	0	0	0
40025.00	72	305	0	0
40050.00	120	370	89	313
40055.49	134	360	26	74
40085.49	1	213	75	318
40100.00	25	157	7	99
40126.98	67	100	46	128
40150.00	114	153	77	108
40156.98	139	175	33	42
40175.00	161	195	100	123
40200.00	224	153	178	161
40226.98	186	138	205	145
40250.00	148	163	142	128
40300.00	187	253	310	385
40350.00	0	0	173	234
TOTAL			1461	2261

EARTHWORK LR A900

STATION	CUT AREA SF	FILL AREA SF	CUT Volume CY	FILL Volume CY
50025.00	113	0	0	0
50050.12	206	0	148	0
50080.12	553	0	422	0
50100.00	643	0	440	0
50110.12	674	0	247	0
50140.12	670	0	747	0
50150.00	663	0	244	0
50200.00	644	0	1210	0
50210.12	644	0	241	0
50250.00	497	0	843	0
50300.00	254	0	695	0
50350.00	59	0	290	0
50370.00	0	2	22	1
TOTAL			5549	1