

GRADING REPORT

COMPUTED BY: JORDAN DEL SARDO
 CHECKED BY: WESLEY APPLE
 FEDERAL PROJECT NO: BR-STP-24(69)
 ROUTE NO. OR STREET: US-70N/SR-24

SHEET 1 OF 9
 STATE NO.: 18004-3227-04
 PIN: 124053.00
 COUNTY: CUMBERLAND

ESTIMATED GRADING QUANTITIES							
DESCRIPTION	UNADJUSTED VOLUMES (CY)		ADJUSTED VOLUMES (CY)	BALANCE SUMMARY			
	EXC.	EMB.	EXC.	SHRINK = 10 % SWELL = 20 %			
MAINLINE	1869	578	1683	EXC.		EMB.	
SIDE ROADS							
PVT. DRIVES, BUSINESS AND FIELD ENTRANCES	92	29	83				
INDEPENDENT DITCHES							
TEMPORARY CONSTRUCTION EXITS	15		14		8453	VS.	-607
OTHER (BRIDGE EXCAVATION, EPSC, ETC.)	3737		3364				
TOPSOIL (EMB.)					AVAILABLE	=	7846
TOPSOIL (EXC.)							
TOPSOIL TOTALS (SEE TOPSOIL TABLE)				WASTE MATERIAL	=	8631	
ROCK (C.Y.)	TOTALS (C.Y.)						
EXC.	EMB.	EXC. (UNCL.)	EMB. (UNCL.)	EXC (COMMON)	EXC. (AVAIL.)	EXC. (ADJ.)	
2759		8472	607	5713	5713	8453	

TOPSOIL							
IF EXISTING TOPSOIL IS SUITABLE FOR REUSE							
PROPOSED SLOPE AREA S.F.	EXISTING TOPSOIL (EXC.)	EXISTING TOPSOIL (EMB.)	EXISTING TOPSOIL (TOTAL) C.Y.	REQUIRED TOPSOIL C.Y.	PLACING TOPSOIL 203-04 C.Y.	FURNISHED TOPSOIL 203-07 C.Y.	EXCESS TOPSOIL C.Y.
0	0	0	0	0	0	0	0
IF EXISTING TOPSOIL IS NOT SUITABLE FOR REUSE							
PROPOSED SLOPE AREA S.F.	EXISTING TOPSOIL (EXC.)	EXISTING TOPSOIL (EMB.)	EXISTING TOPSOIL (TOTAL) C.Y.	REQUIRED TOPSOIL C.Y.	PLACING TOPSOIL 203-04 C.Y.	FURNISHED TOPSOIL 203-07 C.Y.	EXCESS TOPSOIL C.Y.
31532	N/A	N/A	N/A	584	N/A	584	N/A

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US-70N/SR-24 – Mainline

Material Name	End Areas	Unadjusted	Adjusted	Mult	Mass	Accum	Accum
Station		Volumes	Volumes	Factor	Ordinate	Unadj Vol	Adj Vol
	(sq. ft.)	(cu. yd.)	(cu. yd.)			(cu. yd.)	(cu. yd.)

55+35.00 EARTH							
Excavation	46	0	0	1.00		0	0
Fill	0	0	0	1.00	0	0	0
55+50.00 EARTH							
Excavation	94	39	39	1.00		39	39
Fill	7	2	2	1.00	37	2	2
56+00.00 EARTH							
Excavation	80	161	161	1.00		200	200
Fill	9	15	15	1.00	183	17	17
56+50.00 EARTH							
Excavation	84	152	152	1.00		352	352
Fill	5	13	13	1.00	322	30	30
57+00.00 EARTH							
Excavation	109	179	179	1.00		531	531
Fill	2	6	6	1.00	495	36	36
57+34.00 EARTH							
Excavation	81	120	120	1.00		651	651
Fill	7	6	6	1.00	609	42	42

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57+43.69 EARTH

Excavation	77	28	28	1.00		679	679
Fill	7	3	3	1.00	634	45	45

57+50.00 EARTH

Excavation	79	18	18	1.00		697	697
Fill	6	2	2	1.00	650	47	47

57+83.33 EARTH

Excavation	73	94	94	1.00		791	791
Fill	1	4	4	1.00	740	51	51

58+00.00 EARTH

Excavation	66	43	43	1.00		834	834
Fill	1	1	1	1.00	782	52	52

58+21.00 EARTH

Excavation	73	54	54	1.00		888	888
Fill	8	4	4	1.00	832	56	56

SKIP STATION RANGE = 58+21.01 to 60+58.99

60+59.00 EARTH

Excavation	78	0	0	1.00		888	888
Fill	6	0	0	1.00	832	56	56

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61+00.00 EARTH

Excavation	0	59	59	1.00		947	947
Fill	0	5	5	1.00	886	61	61

ROCK

Excavation	333	253	253	1.00		253	253
Fill	0	0	0	1.00	886	0	0

Mass ordinate for ROCK = 253

61+50.00 ROCK

Excavation	626	888	888	1.00		1141	1141
Fill	0	0	0	1.00	886	0	0

Mass ordinate for ROCK = 1141

62+00.00 ROCK

Excavation	413	962	962	1.00		2103	2103
Fill	0	0	0	1.00	886	0	0

Mass ordinate for ROCK = 2103

62+50.00 ROCK

Excavation	148	519	519	1.00		2622	2622
Fill	0	0	0	1.00	886	0	0

Mass ordinate for ROCK = 2622

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63+00.00 EARTH

Excavation	108	100	100	1.00		1047	1047
Fill	128	119	119	1.00	867	180	180

ROCK

Excavation	0	137	137	1.00		2759	2759
Fill	0	0	0	1.00	867	0	0

Mass ordinate for ROCK = 2759

63+50.00 EARTH

Excavation	95	188	188	1.00		1235	1235
Fill	103	214	214	1.00	841	394	394

64+00.00 EARTH

Excavation	66	149	149	1.00		1384	1384
Fill	24	118	118	1.00	872	512	512

64+48.00 EARTH

Excavation	114	160	160	1.00		1544	1544
Fill	9	29	29	1.00	1003	541	541

64+50.00 EARTH

Excavation	114	8	8	1.00		1552	1552
Fill	9	1	1	1.00	1010	542	542

65+00.00 EARTH

Excavation	78	178	178	1.00		1730	1730
Fill	12	19	19	1.00	1169	561	561

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65+14.25 EARTH								
Excavation	76	41	41	1.00		1771	1771	
Fill	12	6	6	1.00	1204	567	567	

65+23.00 EARTH								
Excavation	73	24	24	1.00		1795	1795	
Fill	10	4	4	1.00	1224	571	571	

65+50.00 EARTH								
Excavation	54	64	64	1.00		1859	1859	
Fill	4	7	7	1.00	1281	578	578	

65+55.00 EARTH								
Excavation	49	10	10	1.00		1869	1869	
Fill	0	0	0	1.00	1291	578	578	

G R A N D		S U M M A R Y		T O T A L S	
Material Name		Unadjusted	Adjusted	Mult	
		Volumes	Volumes	Factor	
		(cu. yd.)	(cu. yd.)		
-----		-----	-----	-----	

EARTH				
Excavation	1869	1869	1.00	
Fill	578	578	1.00	
ROCK				
Excavation	2759	2759	1.00	
Fill	0	0	1.00	

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Material Name	S P L I T		S U M M A R Y		T O T A L S	
			XS Quant	XS Quant	Add/Sub Quant	Add/Sub Quant
			Unadjusted	Adjusted	Unadjusted	Adjusted
			Volume	Volume	Volume	Volume
			(cu. yd.)	(cu. yd.)	(cu. yd.)	(cu. yd.)

EARTH

Excavation	1869	1869	0	0	1.00
Fill	578	578	0	0	1.00

ROCK

Excavation	2759	2759	0	0	1.00
Fill	0	0	0	0	1.00

US-70N/SR-24 – Bridge Excavation

Material Name	End Areas	Unadjusted	Adjusted	Mult	Mass	Accum	Accum
Station		Volumes	Volumes	Factor	Ordinate	Unadj Vol	Adj Vol
	(sq. ft.)	(cu. yd.)	(cu. yd.)			(cu. yd.)	(cu. yd.)

58+21.00 EARTH

Excavation	664	0	0	1.00		0	0
Fill	0	0	0	1.00	0	0	0

58+30.00 EARTH

Excavation	565	205	205	1.00		205	205
Fill	0	0	0	1.00	205	0	0

58+40.00 EARTH

Excavation	501	197	197	1.00		402	402
Fill	0	0	0	1.00	402	0	0

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58+50.00 EARTH

Excavation	45	101	101	1.00		503	503
Fill	0	0	0	1.00	503	0	0

58+70.00 EARTH

Excavation	0	17	17	1.00		520	520
Fill	0	0	0	1.00	520	0	0

No proposed Bridge Excavation between STA 58+80.00 and STA 59+90.00

60+00.00 EARTH

Excavation	562	1353	1353	1.00		1873	1873
Fill	0	0	0	1.00	1873	0	0

60+10.00 EARTH

Excavation	839	259	259	1.00		2132	2132
Fill	0	0	0	1.00	2132	0	0

60+20.00 EARTH

Excavation	891	320	320	1.00		2452	2452
Fill	0	0	0	1.00	2452	0	0

60+30.00 EARTH

Excavation	984	347	347	1.00		2799	2799
Fill	0	0	0	1.00	2799	0	0

60+40.00 EARTH

Excavation	1085	383	383	1.00		3182	3182
Fill	0	0	0	1.00	3182	0	0

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60+50.00 EARTH

Excavation	623	316	316	1.00		3498	3498
Fill	0	0	0	1.00	3498	0	0

60+59.00 EARTH

Excavation	664	215	215	1.00		3713	3713
Fill	0	0	0	1.00	3713	0	0

G R A N D	S U M M A R Y	T O T A L S	
Material Name	Unadjusted	Adjusted	Mult
	Volumes	Volumes	Factor
	(cu. yd.)	(cu. yd.)	

EARTH

Excavation	3713	3713	1.00
Fill	0	0	1.00

S P L I T	S U M M A R Y	T O T A L S			
	XS Quant	XS Quant	Add/Sub Quant	Add/Sub Quant	
Material Name	Unadjusted	Adjusted	Unadjusted	Adjusted	Mult
	Volume	Volume	Volume	Volume	Factor
	(cu. yd.)	(cu. yd.)	(cu. yd.)	(cu. yd.)	

EARTH

Excavation	3713	3713	0	0	1.00
Fill	0	0	0	0	1.00