

GRADING REPORT

COMPUTED BY: OHM ADVISORS  
 CHECKED BY: HAK LIM  
 FEDERAL PROJECT NO: N/A  
 ROUTE NO. OR STREET: S.R. 22

SHEET 1 OF 7  
 STATE NO.: 48S022-S2-002  
 PIN: 132172.00  
 COUNTY: LAKE

ESTIMATED GRADING QUANTITIES						
DESCRIPTION	UNADJUSTED VOLUMES (CY)		ADJUSTED VOLUMES (CY)	BALANCE SUMMARY		
	EXC.	EMB.	EXC.	SHRINK = 15 %	SWELL = 15 %	
MAINLINE	1828	426	1554			
SIDE ROADS						
PVT. DRIVES, BUSINESS AND FIELD ENTRANCES				EXC.		EMB.
INDEPENDENT DITCHES						
TEMPORARY CONSTRUCTION EXITS	35		30	1584	vs.	-426
OTHER (BRIDGE EXCAVATION, PAVEMENT, ETC...)						
TOPSOIL (EMB.)				AVAILABLE	=	1158
TOPSOIL (EXC.)						
TOPSOIL TOTALS (SEE TOPSOIL TABLE)				WASTE MATERIAL	=	1332
<b>ROCK (C.Y.)</b>		<b>TOTALS (C.Y.)</b>				
EXC.	EMB.	EXC. (UNCL.)	EMB. (UNCL.)	EXC (COMMON)	EXC. (AVAIL.)	EXC. (ADJ.)
0	0	1863	426	1863	1863	1584

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COMPUTING EARTHWORKS FOR BASELINE = CATES LANDING (SR22)

COMPUTING EARTHWORKS FOR JOB = 115

FORMING LIST OF XSCELLS

BEGINNING EARTHWORKS COMPUTATION

Station	Material Name	End Areas (sq. ft.)	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor	Mass Ordinate	Accum Unadj Vol (cu. yd.)	Accum Adj Vol (cu. yd.)
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 104+20.00 EARTH

	Excavation	64	0	0	1.00		0	0
	Fill	14	0	0	1.00	0	0	0

104+35.61 EARTH

	Excavation	63	37	37	1.00		37	37
	Fill	15	8	8	1.00	29	8	8

104+70.00 EARTH

	Excavation	60	78	78	1.00		115	115
	Fill	16	20	20	1.00	87	28	28

105+20.00 EARTH

	Excavation	50	102	102	1.00		217	217
	Fill	20	33	33	1.00	156	61	61

105+58.94 EARTH

	Excavation	42	66	66	1.00		283	283
	Fill	23	31	31	1.00	191	92	92

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105+70.00 EARTH

Excavation	45	18	18	1.00		301	301
Fill	22	9	9	1.00	200	101	101

106+20.00 EARTH

Excavation	53	91	91	1.00		392	392
Fill	16	35	35	1.00	256	136	136

106+23.20 EARTH

Excavation	50	6	6	1.00		398	398
Fill	17	2	2	1.00	260	138	138

106+70.00 EARTH

Excavation	40	78	78	1.00		476	476
Fill	18	30	30	1.00	308	168	168

107+00.00 EARTH

Excavation	52	51	51	1.00		527	527
Fill	2	11	11	1.00	348	179	179

107+36.78 EARTH

Excavation	50	69	69	1.00		596	596
Fill	15	12	12	1.00	405	191	191

107+75.00 EARTH

Excavation	67	83	83	1.00		679	679
Fill	2	12	12	1.00	476	203	203

108+00.00 EARTH

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Excavation	51	55	55	1.00		734	734
Fill	15	8	8	1.00	523	211	211
108+50.00 EARTH							
Excavation	48	92	92	1.00		826	826
Fill	15	28	28	1.00	587	239	239
109+00.00 EARTH							
Excavation	46	87	87	1.00		913	913
Fill	13	26	26	1.00	648	265	265
109+50.00 EARTH							
Excavation	52	91	91	1.00		1004	1004
Fill	7	19	19	1.00	720	284	284
110+00.00 EARTH							
Excavation	41	86	86	1.00		1090	1090
Fill	13	19	19	1.00	787	303	303
110+50.00 EARTH							
Excavation	49	83	83	1.00		1173	1173
Fill	10	21	21	1.00	849	324	324
111+00.00 EARTH							
Excavation	63	104	104	1.00		1277	1277
Fill	11	19	19	1.00	934	343	343
111+50.00 EARTH							
Excavation	64	118	118	1.00		1395	1395

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Fill	15	24	24	1.00	1028	367	367
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112+00.00 EARTH

Excavation	130	180	180	1.00		1575	1575
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Fill	0	14	14	1.00	1194	381	381
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112+50.00 EARTH

Excavation	67	182	182	1.00		1757	1757
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Fill	21	19	19	1.00	1357	400	400
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112+80.00 EARTH

Excavation	61	71	71	1.00		1828	1828
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Fill	25	26	26	1.00	1402	426	426
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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.)	

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EARTH

Excavation	1828	1828	1.00
Fill	426	426	1.00

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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.)	

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EARTH

Excavation	1828	1828	0	0	1.00
Fill	426	426	0	0	1.00