

GRADING REPORT

COMPUTED BY: Jesse Head
 CHECKED BY: Jordan Del Sardo
 FEDERAL PROJECT NO: BR-NH-6(127)
 ROUTE NO. OR STREET: SR-6

SHEET 1 OF 14
 STATE NO.: 83077-3219-94
 PIN: 124722.00
 COUNTY: Sumner

ESTIMATED GRADING QUANTITIES						
DESCRIPTION	UNADJUSTED VOLUMES (CY)		ADJUSTED VOLUMES (CY)	BALANCE SUMMARY		
	EXC.	EMB.	EXC.	SHRINK = 10 %	SWELL = 10 %	
MAINLINE	3037	125	2734			
SIDE ROADS						
PVT. DRIVES, BUSINESS AND FIELD ENTRANCES	10		9	EXC.		EMB.
INDEPENDENT DITCHES						
TEMPORARY CONSTRUCTION EXITS	29		27	3116	VS.	-125
OTHER (BRIDGE EXCAVATION, PAVEMENT, ETC...)	386		348			
TOPSOIL (EMB.)	72			AVAILABLE	=	2991
TOPSOIL (EXC.)	595					
TOPSOIL TOTALS (SEE TOPSOIL TABLE)				WASTE MATERIAL	=	3291
ROCK (C.Y.)	TOTALS (C.Y.)					
EXC. EMB.	EXC. (UNCL.)	EMB. (UNCL.)	EXC (COMMON)	EXC. (AVAIL.)	EXC. (ADJ.)	
	4129	125	4129	3462	3116	

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

383+51.00 EARTH

Common Exc	0	0	0	1.00		0	0
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	6	0	0	1.00	0	0	0
TOPSOIL							
Common Exc	7	0	0	1.00		0	0
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	6	0	0	1.00		0	0
Fill	0	0	0	1.00	0	0	0

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Mass ordinate for TOPSOIL = 0

384+00.00 EARTH

Common Exc	108	98	98	1.00		98	98
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	10	15	15	1.00	83	15	15

TOPSOIL

Common Exc	13	18	18	1.00		18	18
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	2	7	7	1.00		7	7
Fill	0	0	0	1.00	83	0	0

Mass ordinate for TOPSOIL = 25

384+12.95 EARTH

Common Exc	126	56	56	1.00		154	154
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	13	6	6	1.00	133	21	21

TOPSOIL

Common Exc	13	6	6	1.00		24	24
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	2	1	1	1.00		8	8
Fill	0	0	0	1.00	133	0	0

Mass ordinate for TOPSOIL = 32

384+22.64 EARTH

Common Exc	147	49	49	1.00		203	203
Subgrade Exc	0	0	0	1.00		0	0

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Subsoil Exc	0	0	0	1.00		0	0
Fill	11	4	4	1.00	178	25	25

TOPSOIL

Common Exc	13	5	5	1.00		29	29
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	2	1	1	1.00		9	9
Fill	0	0	0	1.00	178	0	0

Mass ordinate for TOPSOIL = 38

384+50.00 EARTH

Common Exc	134	142	142	1.00		345	345
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	6	6	1.00	314	31	31

TOPSOIL

Common Exc	16	15	15	1.00		44	44
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	1	1	1.00		10	10
Fill	0	0	0	1.00	314	0	0

Mass ordinate for TOPSOIL = 54

384+97.24 EARTH

Common Exc	99	204	204	1.00		549	549
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	1	1	1	1.00	517	32	32

TOPSOIL

Common Exc	20	31	31	1.00		75	75
Subgrade Exc	0	0	0	1.00		0	0

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Subsoil Exc	1	1	1	1.00		11	11
Fill	0	0	0	1.00	517	0	0

Mass ordinate for TOPSOIL = 86

385+00.00 EARTH

Common Exc	105	10	10	1.00		559	559
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	1	0	0	1.00	527	32	32

TOPSOIL

Common Exc	20	2	2	1.00		77	77
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	1	0	0	1.00		11	11
Fill	0	0	0	1.00	527	0	0

Mass ordinate for TOPSOIL = 88

385+30.95 EARTH

Common Exc	89	111	111	1.00		670	670
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	1	1	1	1.00	637	33	33

TOPSOIL

Common Exc	21	23	23	1.00		100	100
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	1	1	1	1.00		12	12
Fill	0	0	0	1.00	637	0	0

Mass ordinate for TOPSOIL = 112

385+50.00 EARTH

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Common Exc	93	64	64	1.00		734	734
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	1	1	1	1.00	700	34	34

TOPSOIL

Common Exc	21	15	15	1.00		115	115
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	1	1	1	1.00		13	13
Fill	0	0	0	1.00	700	0	0

Mass ordinate for TOPSOIL = 128

386+00.00 EARTH

Common Exc	75	156	156	1.00		890	890
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	1	2	2	1.00	854	36	36

TOPSOIL

Common Exc	21	39	39	1.00		154	154
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	1	2	2	1.00		15	15
Fill	0	0	0	1.00	854	0	0

Mass ordinate for TOPSOIL = 169

386+50.00 EARTH

Common Exc	68	132	132	1.00		1022	1022
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	1	2	2	1.00	984	38	38

TOPSOIL

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Common Exc	21	39	39	1.00		193	193
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	1	2	2	1.00		17	17
Fill	0	0	0	1.00	984	0	0
Mass ordinate for TOPSOIL = 210							

387+00.00 EARTH

Common Exc	82	139	139	1.00		1161	1161
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	2	3	3	1.00	1120	41	41

TOPSOIL

Common Exc	21	39	39	1.00		232	232
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	2	3	3	1.00		20	20
Fill	0	0	0	1.00	1120	0	0
Mass ordinate for TOPSOIL = 252							

387+50.00 EARTH

Common Exc	86	156	156	1.00		1317	1317
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	5	6	6	1.00	1270	47	47

TOPSOIL

Common Exc	19	37	37	1.00		269	269
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	4	6	6	1.00		26	26
Fill	0	0	0	1.00	1270	0	0
Mass ordinate for TOPSOIL = 295							

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388+00.00 EARTH

Common Exc	78	152	152	1.00		1469	1469
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	1	6	6	1.00	1416	53	53

TOPSOIL

Common Exc	18	34	34	1.00		303	303
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	1	5	5	1.00		31	31
Fill	0	0	0	1.00	1416	0	0

Mass ordinate for TOPSOIL = 334

388+50.00 EARTH

Common Exc	83	149	149	1.00		1618	1618
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	1	2	2	1.00	1563	55	55

TOPSOIL

Common Exc	19	34	34	1.00		337	337
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	1	2	2	1.00		33	33
Fill	0	0	0	1.00	1563	0	0

Mass ordinate for TOPSOIL = 370

389+00.00 EARTH

Common Exc	148	214	214	1.00		1832	1832
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0

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Fill	2	3	3	1.00	1774	58	58
TOPSOIL							
Common Exc	22	38	38	1.00		375	375
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	2	3	3	1.00		36	36
Fill	0	0	0	1.00	1774	0	0
Mass ordinate for TOPSOIL = 411							

389+50.00 EARTH

Common Exc	103	232	232	1.00		2064	2064
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	5	6	6	1.00	2000	64	64
TOPSOIL							
Common Exc	21	40	40	1.00		415	415
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	4	6	6	1.00		42	42
Fill	0	0	0	1.00	2000	0	0
Mass ordinate for TOPSOIL = 457							

SKIP STATION RANGE = 389+85.50 to 391+60.50

392+00.00 EARTH

Common Exc	74	246	246	1.00		2310	2310
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	3	11	11	1.00	2235	75	75
TOPSOIL							
Common Exc	12	46	46	1.00		461	461
Subgrade Exc	0	0	0	1.00		0	0

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Subsoil Exc	2	8	8	1.00		50	50
Fill	0	0	0	1.00	2235	0	0

Mass ordinate for TOPSOIL = 511

392+50.00 EARTH

Common Exc	80	143	143	1.00		2453	2453
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	15	17	17	1.00	2361	92	92

TOPSOIL

Common Exc	12	22	22	1.00		483	483
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	6	7	7	1.00		57	57
Fill	0	0	0	1.00	2361	0	0

Mass ordinate for TOPSOIL = 540

393+00.00 EARTH

Common Exc	70	139	139	1.00		2592	2592
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	14	14	1.00	2486	106	106

TOPSOIL

Common Exc	14	24	24	1.00		507	507
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	6	6	1.00		63	63
Fill	0	0	0	1.00	2486	0	0

Mass ordinate for TOPSOIL = 570

393+04.00 EARTH

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Common Exc	69	10	10	1.00		2602	2602
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	2496	106	106

TOPSOIL

Common Exc	13	2	2	1.00		509	509
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		63	63
Fill	0	0	0	1.00	2496	0	0

Mass ordinate for TOPSOIL = 572

393+50.00 EARTH

Common Exc	70	118	118	1.00		2720	2720
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	2	2	2	1.00	2612	108	108

TOPSOIL

Common Exc	13	22	22	1.00		531	531
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	1	1	1	1.00		64	64
Fill	0	0	0	1.00	2612	0	0

Mass ordinate for TOPSOIL = 595

394+00.00 EARTH

Common Exc	60	120	120	1.00		2840	2840
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	2	4	4	1.00	2728	112	112

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Common Exc	12	23	23	1.00		554	554
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	1	2	2	1.00		66	66
Fill	0	0	0	1.00	2728	0	0
Mass ordinate for TOPSOIL = 620							

394+49.74 EARTH

Common Exc	45	97	97	1.00		2937	2937
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	4	6	6	1.00	2819	118	118

TOPSOIL

Common Exc	10	20	20	1.00		574	574
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	2	3	3	1.00		69	69
Fill	0	0	0	1.00	2819	0	0
Mass ordinate for TOPSOIL = 643							

394+50.00 EARTH

Common Exc	45	0	0	1.00		2937	2937
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	4	0	0	1.00	2819	118	118

TOPSOIL

Common Exc	10	0	0	1.00		574	574
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	2	0	0	1.00		69	69
Fill	0	0	0	1.00	2819	0	0
Mass ordinate for TOPSOIL = 643							

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395+00.00 EARTH

Common Exc	50	88	88	1.00		3025	3025
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	3	6	6	1.00	2901	124	124

TOPSOIL

Common Exc	10	19	19	1.00		593	593
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	1	3	3	1.00		72	72
Fill	0	0	0	1.00	2901	0	0

Mass ordinate for TOPSOIL = 665

395+10.00 EARTH

Common Exc	14	12	12	1.00		3037	3037
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	2	1	1	1.00	2912	125	125

TOPSOIL

Common Exc	1	2	2	1.00		595	595
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	1	0	0	1.00		72	72
Fill	0	0	0	1.00	2912	0	0

Mass ordinate for TOPSOIL = 667

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Material Name	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor
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EARTH

Common Exc	3037	3037	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	125	125	1.00

TOPSOIL

Common Exc	595	595	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	72	72	1.00
Fill	0	0	1.00

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Material Name	XS Quant	XS Quant	Add/Sub Quant	Add/Sub Quant	Mult
	Unadjusted	Adjusted	Unadjusted	Adjusted	
	Volume	Volume	Volume	Volume	Factor
	(cu. yd.)	(cu. yd.)	(cu. yd.)	(cu. yd.)	

EARTH					
Common Exc	3037	3037	0	0	1.00
Subgrade Exc	0	0	0	0	1.00
Subsoil Exc	0	0	0	0	1.00
Fill	125	125	0	0	1.00
TOPSOIL					
Common Exc	595	595	0	0	1.00
Subgrade Exc	0	0	0	0	1.00
Subsoil Exc	72	72	0	0	1.00
Fill	0	0	0	0	1.00