

GRADING REPORT

COMPUTED BY: SETH ATKINS
 CHECKED BY: JOHN HIERONYMUS
 FEDERAL PROJECT NO: NH-SIP-60(40)
 ROUTE NO. OR STREET: SR-60

SHEET 1 OF 8
 STATE NO.: 06069-3229-94
 PIN: 131296.00
 COUNTY: BRADLEY

ESTIMATED GRADING QUANTITIES						
DESCRIPTION	UNADJUSTED VOLUMES (CY)		ADJUSTED VOLUMES (CY)	BALANCE SUMMARY		
	EXC.	EMB.	EXC.	SHRINK = 15 % SWELL = 15 %		
MAINLINE	626.1	157.1	533	EXC. EMB. 629 VS. -158 AVAILABLE = 471 WASTE MATERIAL = 542		
EXIT RAMP	113	0	97			
PVT. DRIVES, BUSINESS AND FIELD ENTRANCES	0	0				
INDEPENDENT DITCHES	0	0				
TEMPORARY CONSTRUCTION EXITS	0	0				
OTHER (BRIDGE EXCAVATION, PAVEMENT, ETC...)	0	0				
TOPSOIL (EMB.)	112.6					
TOPSOIL (EXC.)	19.7					
ROCK (C.Y.)		TOTALS (C.Y.)				
EXC.	EMB.	EXC. (UNCL.)	EMB. (UNCL.)	EXC. (COMMON)	EXC. (AVAIL.)	EXC. (ADJ.)
0	0	872	158	872	740	629

SR-60

Station	Type	Area	Volume	Factor	Adjusted Volume	Included in Mass Ordinate?	Mass Ordinate
598+00.00							0.0
Normal Cut:		0.000	0.0	1.00	0.0	Yes	
Normal Fill:		0.000	0.0	1.00	0.0	Yes	
Added Cut:			0.0	1.00	0.0	Yes	
Added Fill:			0.0	1.00	0.0	Yes	
Topsoil (replaced):		0.000	0.0	1.00	0.0	Yes	
Topsoil (not replaced):		0.000	0.0	1.00	0.0	No	
Total Topsoil:		0.000	0.0	1.00	0.0		
Pavement Asphalt:		0.000	0.0	1.00	0.0	No	
Rock Comp:		0.000	0.0	1.00	0.0	No	
598+50.00							-7.4
Normal Cut:		0.000	0.0	1.00	0.0	Yes	
Normal Fill:		0.000	0.0	1.00	0.0	Yes	
Added Cut:			0.0	1.00	0.0	Yes	
Added Fill:			0.0	1.00	0.0	Yes	
Topsoil (replaced):		7.966	7.4	1.00	7.4	Yes	
Topsoil (not replaced):		0.228	0.2	1.00	0.2	No	
Total Topsoil:		8.194	7.6	1.00	7.6		
Pavement Asphalt:		0.000	0.0	1.00	0.0	No	
Rock Comp:		0.000	0.0	1.00	0.0	No	
599+00.00							-3.8

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SHEET 2 OF 8
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Normal Cut:	20.753	19.2	1.00	19.2	Yes	
Normal Fill:	3.374	3.1	1.00	3.1	Yes	
Added Cut:		0.0	1.00	0.0	Yes	
Added Fill:		0.0	1.00	0.0	Yes	
Topsoil (replaced):	5.545	12.5	1.00	12.5	Yes	
Topsoil (not replaced):	2.809	2.8	1.00	2.8	No	
Total Topsoil:	8.354	15.3	1.00	15.3		
Pavement Asphalt:	0.000	0.0	1.00	0.0	No	
Rock Comp:	0.000	0.0	1.00	0.0	No	
599+50.00						14.5
Normal Cut:	18.463	36.3	1.00	36.3	Yes	
Normal Fill:	4.989	7.7	1.00	7.7	Yes	
Added Cut:		0.0	1.00	0.0	Yes	
Added Fill:		0.0	1.00	0.0	Yes	
Topsoil (replaced):	5.632	10.3	1.00	10.3	Yes	
Topsoil (not replaced):	2.197	4.6	1.00	4.6	No	
Total Topsoil:	7.829	15.0	1.00	15.0		
Pavement Asphalt:	2.578	2.4	1.00	2.4	No	
Rock Comp:	0.000	0.0	1.00	0.0	No	
600+00.00						12.1
Normal Cut:	16.723	32.6	1.00	32.6	Yes	
Normal Fill:	17.757	21.1	1.00	21.1	Yes	
Added Cut:		0.0	1.00	0.0	Yes	
Added Fill:		0.0	1.00	0.0	Yes	
Topsoil (replaced):	9.342	13.9	1.00	13.9	Yes	
Topsoil (not replaced):	1.281	3.2	1.00	3.2	No	
Total Topsoil:	10.623	17.1	1.00	17.1		
Pavement Asphalt:	2.028	4.3	1.00	4.3	No	
Rock Comp:	0.000	0.0	1.00	0.0	No	
600+50.00						-6.5
Normal Cut:	14.258	28.7	1.00	28.7	Yes	
Normal Fill:	15.697	31.0	1.00	31.0	Yes	
Added Cut:		0.0	1.00	0.0	Yes	
Added Fill:		0.0	1.00	0.0	Yes	

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SHEET 3 OF 8
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Topsoil (replaced):	8.308	16.3	1.00	16.3	Yes
Topsoil (not replaced):	1.021	2.1	1.00	2.1	No
Total Topsoil:	9.329	18.5	1.00	18.5	

Pavement Asphalt:	0.000	1.9	1.00	1.9	No
Rock Comp:	0.000	0.0	1.00	0.0	No

601+00.00 -19.7

Normal Cut:	14.528	26.7	1.00	26.7	Yes
Normal Fill:	11.489	25.2	1.00	25.2	Yes
Added Cut:		0.0	1.00	0.0	Yes
Added Fill:		0.0	1.00	0.0	Yes

Topsoil (replaced):	7.585	14.7	1.00	14.7	Yes
Topsoil (not replaced):	0.924	1.8	1.00	1.8	No
Total Topsoil:	8.509	16.5	1.00	16.5	

Pavement Asphalt:	10.339	9.6	1.00	9.6	No
Rock Comp:	9.980	9.2	1.00	9.2	No

601+50.00 -24.3

Normal Cut:	15.488	27.8	1.00	27.8	Yes
Normal Fill:	8.691	18.7	1.00	18.7	Yes
Added Cut:		0.0	1.00	0.0	Yes
Added Fill:		0.0	1.00	0.0	Yes

Topsoil (replaced):	7.219	13.7	1.00	13.7	Yes
Topsoil (not replaced):	0.809	1.6	1.00	1.6	No
Total Topsoil:	8.029	15.3	1.00	15.3	

Pavement Asphalt:	11.628	20.3	1.00	20.3	No
Rock Comp:	9.980	18.5	1.00	18.5	No

602+00.00 -28.4

Normal Cut:	19.977	32.8	1.00	32.8	Yes
Normal Fill:	14.755	21.7	1.00	21.7	Yes
Added Cut:		0.0	1.00	0.0	Yes
Added Fill:		0.0	1.00	0.0	Yes

Topsoil (replaced):	9.212	15.2	1.00	15.2	Yes
Topsoil (not replaced):	1.348	2.0	1.00	2.0	No
Total Topsoil:	10.560	17.2	1.00	17.2	

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Pavement Asphalt:	12.496	22.3	1.00	22.3	No	
Rock Comp:	9.980	18.5	1.00	18.5	No	
602+50.00						-16.0
Normal Cut:	25.058	41.7	1.00	41.7	Yes	
Normal Fill:	7.705	20.8	1.00	20.8	Yes	
Added Cut:		0.0	1.00	0.0	Yes	
Added Fill:		0.0	1.00	0.0	Yes	
Topsoil (replaced):	0.000	8.5	1.00	8.5	Yes	
Topsoil (not replaced):	0.000	1.2	1.00	1.2	No	
Total Topsoil:	0.000	9.8	1.00	9.8		
Pavement Asphalt:	12.640	23.3	1.00	23.3	No	
Rock Comp:	9.980	18.5	1.00	18.5	No	
603+00.00						29.7
Normal Cut:	32.068	52.9	1.00	52.9	Yes	
Normal Fill:	0.037	7.2	1.00	7.2	Yes	
Added Cut:		0.0	1.00	0.0	Yes	
Added Fill:		0.0	1.00	0.0	Yes	
Topsoil (replaced):	0.000	0.0	1.00	0.0	Yes	
Topsoil (not replaced):	0.000	0.0	1.00	0.0	No	
Total Topsoil:	0.000	0.0	1.00	0.0		
Pavement Asphalt:	12.716	23.5	1.00	23.5	No	
Rock Comp:	9.980	18.5	1.00	18.5	No	
603+50.00						78.6
Normal Cut:	21.080	49.2	1.00	49.2	Yes	
Normal Fill:	0.319	0.3	1.00	0.3	Yes	
Added Cut:		0.0	1.00	0.0	Yes	
Added Fill:		0.0	1.00	0.0	Yes	
Topsoil (replaced):	0.000	0.0	1.00	0.0	Yes	
Topsoil (not replaced):	0.000	0.0	1.00	0.0	No	
Total Topsoil:	0.000	0.0	1.00	0.0		
Pavement Asphalt:	7.018	18.3	1.00	18.3	No	
Rock Comp:	0.000	9.2	1.00	9.2	No	
604+00.00						124.3
Normal Cut:	28.594	46.0	1.00	46.0	Yes	

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SHEET 5 OF 8
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Normal Fill:	0.000	0.3	1.00	0.3	Yes
Added Cut:		0.0	1.00	0.0	Yes
Added Fill:		0.0	1.00	0.0	Yes
Topsoil (replaced):	0.000	0.0	1.00	0.0	Yes
Topsoil (not replaced):	0.000	0.0	1.00	0.0	No
Total Topsoil:	0.000	0.0	1.00	0.0	
Pavement Asphalt:	7.029	13.0	1.00	13.0	No
Rock Comp:	0.000	0.0	1.00	0.0	No
604+50.00					176.4
Normal Cut:	27.638	52.1	1.00	52.1	Yes
Normal Fill:	0.000	0.0	1.00	0.0	Yes
Added Cut:		0.0	1.00	0.0	Yes
Added Fill:		0.0	1.00	0.0	Yes
Topsoil (replaced):	0.000	0.0	1.00	0.0	Yes
Topsoil (not replaced):	0.000	0.0	1.00	0.0	No
Total Topsoil:	0.000	0.0	1.00	0.0	
Pavement Asphalt:	7.044	13.0	1.00	13.0	No
Rock Comp:	0.000	0.0	1.00	0.0	No
605+00.00					234.1
Normal Cut:	34.690	57.7	1.00	57.7	Yes
Normal Fill:	0.000	0.0	1.00	0.0	Yes
Added Cut:		0.0	1.00	0.0	Yes
Added Fill:		0.0	1.00	0.0	Yes
Topsoil (replaced):	0.000	0.0	1.00	0.0	Yes
Topsoil (not replaced):	0.000	0.0	1.00	0.0	No
Total Topsoil:	0.000	0.0	1.00	0.0	
Pavement Asphalt:	7.066	13.1	1.00	13.1	No
Rock Comp:	0.000	0.0	1.00	0.0	No
605+50.00					307.9
Normal Cut:	44.968	73.8	1.00	73.8	Yes
Normal Fill:	0.000	0.0	1.00	0.0	Yes
Added Cut:		0.0	1.00	0.0	Yes
Added Fill:		0.0	1.00	0.0	Yes
Topsoil (replaced):	0.000	0.0	1.00	0.0	Yes

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Topsoil (not replaced):	0.000	0.0	1.00	0.0	No
Total Topsoil:	0.000	0.0	1.00	0.0	
Pavement Asphalt:	7.320	13.3	1.00	13.3	No
Rock Comp:	0.000	0.0	1.00	0.0	No
606+00.00					353.1
Normal Cut:	3.826	45.2	1.00	45.2	Yes
Normal Fill:	0.000	0.0	1.00	0.0	Yes
Added Cut:		0.0	1.00	0.0	Yes
Added Fill:		0.0	1.00	0.0	Yes
Topsoil (replaced):	0.000	0.0	1.00	0.0	Yes
Topsoil (not replaced):	0.000	0.0	1.00	0.0	No
Total Topsoil:	0.000	0.0	1.00	0.0	
Pavement Asphalt:	2.031	8.7	1.00	8.7	No
Rock Comp:	0.000	0.0	1.00	0.0	No
606+50.00					356.6
Normal Cut:	0.000	3.5	1.00	3.5	Yes
Normal Fill:	0.000	0.0	1.00	0.0	Yes
Added Cut:		0.0	1.00	0.0	Yes
Added Fill:		0.0	1.00	0.0	Yes
Topsoil (replaced):	0.000	0.0	1.00	0.0	Yes
Topsoil (not replaced):	0.000	0.0	1.00	0.0	No
Total Topsoil:	0.000	0.0	1.00	0.0	
Pavement Asphalt:	0.000	1.9	1.00	1.9	No
Rock Comp:	0.000	0.0	1.00	0.0	No
Totals:					
Normal Cut:		626.1		626.1	Yes
Normal Fill:		157.1		157.1	Yes
Added Cut:		0.0		0.0	Yes
Added Fill:		0.0		0.0	Yes
Topsoil (replaced):		112.6		112.6	Yes
Topsoil (not replaced):		19.7		19.7	No
Total Topsoil:		132.3		132.3	
Pavement Asphalt:		188.8		188.8	No

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SHEET 7 OF 8
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 COUNTY: BRADLEY

Rock Comp: 92.4 92.4 No

RAMP

Station	Type	Area	Volume	Factor	Adjusted Volume	Included in Mass Ordinate?	Mass Ordinate
400+00.00							0.0
Normal Cut:		0.000	0.0	1.00	0.0	Yes	
Normal Fill:		0.000	0.0	1.00	0.0	Yes	
Added Cut:			0.0	1.00	0.0	Yes	
Added Fill:			0.0	1.00	0.0	Yes	
Rock Comp:		0.000	0.0	1.00	0.0	No	
Pavement Asphalt:		0.000	0.0	1.00	0.0	No	
100scale:		0.000	0.0	1.00	0.0	No	
400+50.00							41.5
Normal Cut:		44.770	41.5	1.00	41.5	Yes	
Normal Fill:		0.000	0.0	1.00	0.0	Yes	
Added Cut:			0.0	1.00	0.0	Yes	
Added Fill:			0.0	1.00	0.0	Yes	
Rock Comp:		43.471	40.3	1.00	40.3	No	
Pavement Asphalt:		11.379	10.5	1.00	10.5	No	
100scale:		0.225	0.2	1.00	0.2	No	
401+00.00							98.0
Normal Cut:		16.239	56.5	1.00	56.5	Yes	
Normal Fill:		0.000	0.0	1.00	0.0	Yes	
Added Cut:			0.0	1.00	0.0	Yes	
Added Fill:			0.0	1.00	0.0	Yes	
Rock Comp:		12.411	51.7	1.00	51.7	No	
Pavement Asphalt:		3.591	13.9	1.00	13.9	No	
100scale:		0.208	0.4	1.00	0.4	No	
401+50.00							113.0
Normal Cut:		0.000	15.0	1.00	15.0	Yes	
Normal Fill:		0.000	0.0	1.00	0.0	Yes	
Added Cut:			0.0	1.00	0.0	Yes	
Added Fill:			0.0	1.00	0.0	Yes	
Rock Comp:		0.000	11.5	1.00	11.5	No	
Pavement Asphalt:		0.000	3.3	1.00	3.3	No	
100scale:		0.000	0.2	1.00	0.2	No	

Totals:

Normal Cut:	113.0	113.0	Yes
Normal Fill:	0.0	0.0	Yes
Added Cut:	0.0	0.0	Yes
Added Fill:	0.0	0.0	Yes

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SHEET 8 OF 8
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Station	Type	Area	Volume	Factor	Adjusted Volume	Included in Mass Ordinate?	Mass Ordinate
	Rock Comp:		103.5		103.5	No	
	Pavement Asphalt:		27.7		27.7	No	
	100scale:		0.8		0.8	No	