

Sample Plan

EARTHWORK TABULATION AND SUMMARY ----- NARRATIVE

References:

Design Scene: Chapter 4 - Earthwork

General Information:

Prepare earthwork quantity tabulations (by alignment).

Tabulate all earthwork excavation and embankment quantities into an earthwork summary.

The designer should consult with Construction to determine appropriate excavation and embankment pay items (2105 or 2106).

2105 Pay Items = Excavation and Borrow

2106 Pay Items = Excavation and Embankment

If using 2105 items:

- An earthwork summary is sufficient. It is optional to provide an earthwork balance.
- Show all earthwork notes on the summary.
- Include in the summary notes any material not used on project is to be hauled away, such as rubble.

Tabulations should include a breakdown of granular materials.

Compute earthwork by stages, if applicable.

The designer should consult with construction to determine whether to compute earthwork splits for structural items or staged construction.

Add a footnote to the common excavation column to say how much topsoil excavation, rubble, or other material is included in the common excavation quantity.

(For 2105 pay items only.)

The designer should consider additional earthwork quantities needed at guardrail installations along rural shoulders and around end terminals.

When using 2106 Earthwork pay items, you cannot show any topsoil quantities. However, these quantities still need to be supplied to the Central Office Estimating Unit. Also, if this item includes a note that the 6" of bituminous pavement removal is paid for as excavation-common, it cannot include any quantities. However, this quantity also needs to be supplied to the Central Office Estimating Unit.

The designer has the option to combine subgrade with common excavation. If the designer chooses to do this, all subgrade and common will be paid for as excavation-common. This must be noted as either a Soils and Construction note, a note on the Statement of Estimated Quantities or as a note on the Earthwork Tabulations and Summary sheet(s).

Sample Plan

EARTHWORK TABULATION AND SUMMARY ----- CHECKLIST

- 1. Check quantities from Tabulation to Summary
- 2. Earthwork summary mathematically balances
- 3. Notes for applicability
- 4. Cross references to other sheets (as applicable)
- 5. Drawn By: and Checked By: initials and Engineer's Signature

EARTHWORK QUANTITIES								
STATION TO STATION	EXCAVATION			EMBANKMENT				
	COMMON	SUB-GRADE	MUCK	SELECT GRADING	GRANULAR	SELECT GRANULAR	TOPSOIL	POND LINER
	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD
T.H. 10 E.B.								
625 + 00 TO 625 + 50	326			8861	989	259		
625 + 50 TO 626 + 00	319			8668	967	256		
626 + 00 TO 627 + 00	1916			20812	2166	577	139	56
627 + 00 TO 627 + 55	1766			12197	999	274	174	54
630 + 50 TO 631 + 00	230			6809	577	144	91	
631 + 00 TO 631 + 50	380			11502	1133	288	131	
631 + 50 TO 632 + 00	362			11107	1132	288	122	
632 + 00 TO 632 + 50	344			10608	1131	288	110	
632 + 50 TO 633 + 00	326			10037	1131	288	94	
633 + 00 TO 633 + 50	308			9571	1106	288	80	
633 + 50 TO 634 + 00	291			8975	15054	283	70	
634 + 00 TO 634 + 50	273			8241	999	269	68	
634 + 50 TO 635 + 00	255			7657	943	250	68	
635 + 00 TO 635 + 50	238			7032	887	232	62	
635 + 50 TO 636 + 00	219			6173	829	213	57	
636 + 00 TO 636 + 50	201			5315	769	195	57	
636 + 50 TO 637 + 00	183			4635	705	171	54	
637 + 00 TO 637 + 50	166			4015	640	156	46	
637 + 50 TO 638 + 00	148			3493	579	156	36	
638 + 00 TO 638 + 50	130			3086	520	155	25	
638 + 50 TO 639 + 00	113			2526	455	145	13	
639 + 00 TO 640 + 00	458			7752	1614	484	91	
640 + 00 TO 640 + 50	351			5187	1178	344	83	
640 + 50 TO 641 + 00	339			4538	1144	333	82	
641 + 00 TO 641 + 50	324			3949	1101	318	82	
641 + 50 TO 642 + 00	311			3362	1066	306	79	
642 + 00 TO 643 + 00	1217			6638	2443	694	252	
643 + 00 TO 644 + 00	1793			5956	2696	741	346	
644 + 00 TO 645 + 00	1682			3979	2608	694	348	
645 + 00 TO 645 + 50	759			1443	1275	340	174	
645 + 50 TO 646 + 00	615			1159	1167	325	168	2
646 + 00 TO 647 + 00	789			1662	1919	620	296	3
647 + 00 TO 648 + 00	527			880	1450	594	242	
648 + 00 TO 649 + 00	516			493	1009	467	231	
649 + 00 TO 650 + 00	717	158		610	715	472	270	
650 + 00 TO 650 + 50	464	160		416	308	292	154	
650 + 50 TO 651 + 00	487	165		518	290	290	165	
651 + 00 TO 651 + 50	495	172		549	267	288	170	
651 + 50 TO 652 + 00	509	177		533	255	286	168	
652 + 00 TO 652 + 50	481	132		510	247	241	168	
652 + 50 TO 653 + 00	442	86		493	242	197	169	
653 + 00 TO 654 + 00	813	170		912	478	393	337	
654 + 00 TO 655 + 00	772	171		803	473	390	327	
655 + 00 TO 656 + 00	828	185		574	436	401	325	
656 + 00 TO 657 + 00	851	199		431	431	405	332	
657 + 00 TO 658 + 00	739	199		493	463	400	305	
658 + 00 TO 659 + 00	786	181		489	434	398	307	
659 + 00 TO 660 + 00	989	168		508	395	393	343	
660 + 00 TO 661 + 00	1511	173		536	359	391	356	
661 + 00 TO 662 + 00	1743	182		439	339	397	352	
662 + 00 TO 663 + 00	1292	193		287	371	404	305	
663 + 00 TO 664 + 00	1174	199		149	408	450	282	
664 + 00 TO 665 + 00	1244	202		59	419	502	290	
665 + 00 TO 666 + 00	1173	198		77	464	427	229	
666 + 00 TO 667 + 00	993	198		76	501	415	208	
667 + 00 TO 668 + 00	826	196		71	527	478	246	
668 + 00 TO 669 + 00	758	190		105	520	535	234	
669 + 00 TO 670 + 00	730	193		132	500	566	209	
670 + 00 TO 671 + 00	507	193		341	292	384	190	
671 + 00 TO 672 + 00	524	190		395	341	402	309	
672 + 00 TO 673 + 00	552	186		536	445	419	326	
673 + 00 TO 674 + 00	571	182		637	532	433	226	
674 + 00 TO 675 + 00	702	183		487	593	448	247	
675 + 00 TO 676 + 00	913	186		329	607	464	266	
SUBTOTALS	42760	5367		230813	53030	23396	11786	115

EARTHWORK QUANTITIES								
STATION TO STATION	EXCAVATION			EMBANKMENT				
	COMMON	SUB-GRADE	MUCK	SELECT GRADING	GRANULAR	SELECT GRANULAR	TOPSOIL	POND LINER
	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD
T.H. 10 E.B.								
676 + 00 TO 677 + 00	919	188		225	689	526	266	
677 + 00 TO 678 + 00	768	183		214	760	571	268	
678 + 00 TO 679 + 00	748	178		1735	729	592	221	
679 + 00 TO 680 + 00	825	178		1970	631	610	285	
680 + 00 TO 681 + 00	1297	172		5769	1161	788	410	1
681 + 00 TO 682 + 00	1885	186		10499	1885	930	454	26
682 + 00 TO 683 + 00	1682	185		5462	1478	739	399	30
683 + 00 TO 684 + 00	667	164		285	348	381	237	5
684 + 00 TO 685 + 00	810	171		182	337	381	259	
685 + 00 TO 686 + 00	2882	184		73	308	381	261	115
686 + 00 TO 687 + 00	4622	196		56	255	381	239	211
687 + 00 TO 687 + 50	1749	106		22	74			

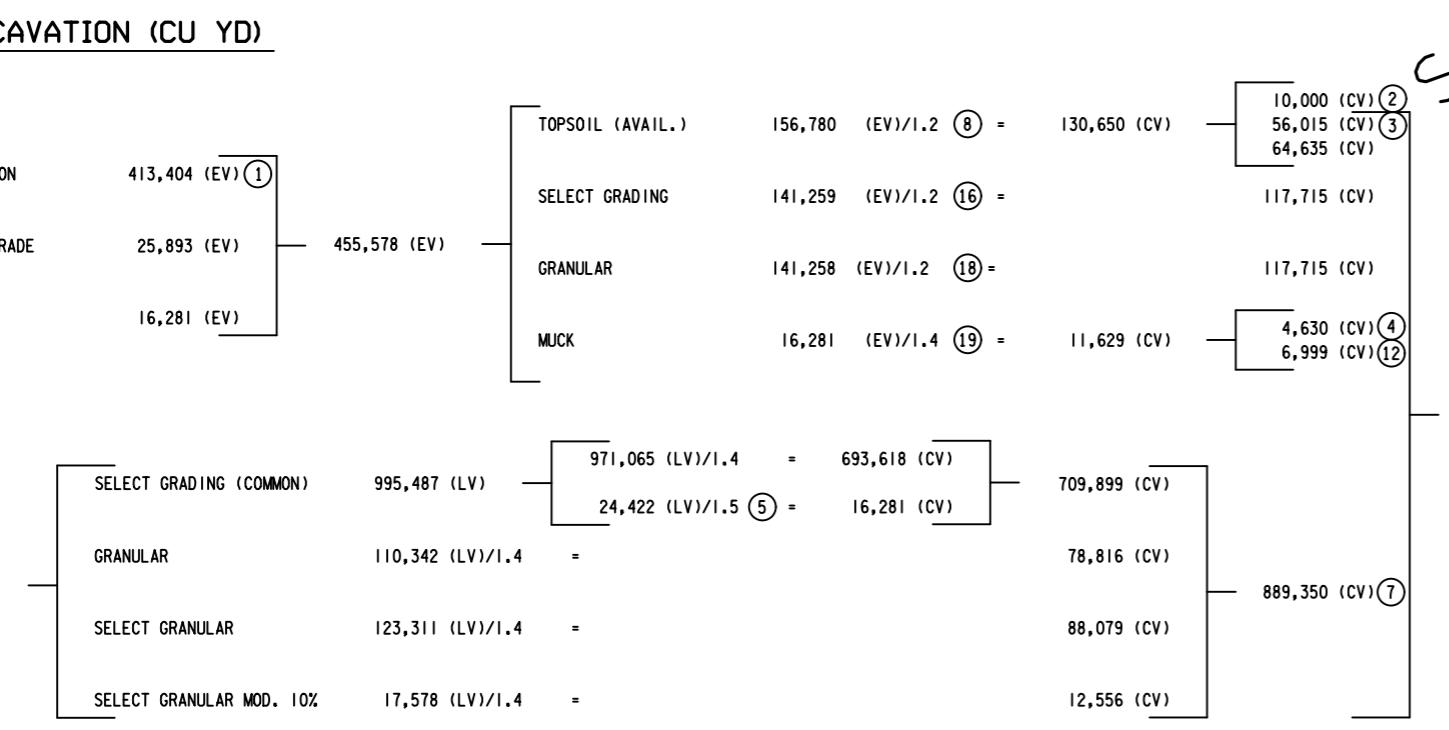
EARTHWORK SUMMARY												
SHEET NO.	ALIGNMENT	STATION TO STATION	REMARKS	EXCAVATION			EMBANKMENT					
				COMMON	SUBGRADE	MUCK	GRANULAR	SELECT GRANULAR	SELECT GRADING	TOPSOIL	POND LINER	
				CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	SEL.GRAN. MOD. 10%	
7	T.H. 10 E.B.	625 + 00 TO 676 + 00		42760	5367		53030	23396	230813	11786	115	
7	T.H. 10 E.B.	676 + 00 TO 725 + 00		39903	8506		15518	18179	43461	9801	493	
8	T.H. 65 N.B.	363 + 00 TO 383 + 00		10739	2575		1743	4129	14938	2353		
8	S.E. RAMP	631 + 00 TO 642 + 50		59364			10061	2721	47496	4101	2505	
8	N.E. RAMP	627 + 50 TO 639 + 50		21808	198		10622	2993	67224	2709	1853	
8	AIRPORT RD. N.B.	10 + 50 TO 39 + 00		34585	737		23461	7312	149639	7243		
9	GROVELAND CONN.	11 + 00 TO 14 + 50		2501	78		497	677		384		
9	CO. RD. J W.B.	100 + 50 TO 137 + 50		24598	5086	8695	34784	11622	117935	7286		
9	CO. RD. J W.B.	137 + 50 TO 144 + 50		2014	922	5142	5126	2055	6462	849		
9	RAMP C	11 + 00 TO 28 + 00		55710	481		12172	3628	90950	7139		
9	RAMP D	10 + 50 TO 22 + 00		15876			7521	1811	37219	3841		
9	RAMP E	11 + 00 TO 18 + 50		34983	21		5624	1655	18926	3708		
7	S.W. LOOP	9 + 50 TO 18 + 50		36312	213		5838	2029	36686	1759	2033	
7	N.E. LOOP	16 + 00 TO 20 + 50		12804			3998	1081	14117	1606		
10	T.H. 65 S.B.	365 + 50 TO 371 + 00	TEMP. DOUBLE LT. TURN LANE				570	756				
10	T.H. 10 E.B.	641 + 00 TO 656 + 00	BYPASS A	256	1106		1223	1850	20			
10	CO. RD. J W.B.	132 + 00 TO 144 + 50	WIDENING STAGE 1	191	272	2444	865	1854	241			
10	AIRPORT RD. N.B.	35 + 50 TO 40 + 00	WIDENING STAGE 1		216			216				
10	BYPASS B	627 + 70 TO 628 + 20			59			59				
10	TEMPORARY CONNECTIONS A & B				56			56				
6	(10)					1826		5158				
197	DITCH BLOCKS	(13)						27				
6	BRIDGE APPROACH TREATMENT	(11)				2052				12556		
12	(14)							6776				
60	INPLACE STOCKPILE	(15)	19000									
12	T.H. 10 E.B.	724 + 00 TO 726 + 00	MEDIAN GUARDRAIL LOOP					172	70			
TOTALS				413404	25893	16281	196531	88079	888260	64635	6999	12556

⑩ MISC. EMBANKMENT				
STATION TO STATION	LOCATION	GRANULAR MATERIAL	SELECT GRADING MATERIAL	
		CU YD	CU YD	
S.W. LOOP				
9+50 TO 14+27	LT.	60		
S.E. RAMP				
634+13 TO 639+25	RT.	81		
RAMP C				
10+56 TO 13+71	RT.	244		
RAMP E				
12+63 TO 15+75	RT.	49		
N.E. LOOP				
13+05 TO 19+35	LT.	70		
AIRPORT ROAD				
8+55 TO 9+34	LT.	10		
10+40 TO 15+00	LT.	173		
16+00 TO 22+85	LT.	96		
24+00 TO 34+42	LT.	422		
CO. ROAD J W.B.				
100+50 TO 105+25	RT.	176		
100+50 TO 113+45	LT.	1200		
106+00 TO 113+15	RT.	265		
106+29 TO 113+45	RT.	333		
114+00 TO 124+54	RT.	898		
114+35 TO 119+41	RT.	288		
114+60 TO 123+60	LT.	833		
130+22 TO 144+70	LT.	1286		
131+22 TO 144+70	RT.	500		
TOTALS:		1826	5158	

BRIDGE NO.	ABUTMENT LOCATION	BEG. OR END OF APPROACH TREATMENT	GRANULAR MATERIAL	SEL. GRAN. MOD. 10%
		PROFILE/STATION	CU YD	CU YD
02045	WEST	T.H. 10 W.B. 627+15	120	1715
02045	EAST	T.H. 10 W.B. 630+29	120	1966
02046	WEST	T.H. 10 E.B. 627+46	197	2157
02046	EAST	T.H. 10 E.B. 630+60	197	2147
02047	SOUTH	AIR. RD. N.B. 17+81	234	1588
02047	NORTH	AIR. RD. N.B. 21+43	163	1516
02048	WEST	CO. RD. W.B. 124+20	547	804
02048	EAST	CO. RD. W.B. 130+60	474	663
TOTALS			2052	12556

- ① INCLUDES 19,000 CU. YD. OF TOPSOIL STOCKPILED ON PROJECT.
- ② TOPSOIL THAT SHALL BE STOCKPILED ON PROJECT IN MNDOT RIGHT OF WAY WESTERLY OF T.H. 65 AT A SITE DIRECTED BY THE ENGINEER. MATERIAL TO BE USED BY MNDOT MAINTENANCE.
- ③ TOPSOIL SHALL BE USED THROUGHOUT PROJECT AS DIRECTED BY THE ENGINEER AND DETAILED ON SHEET NO. 48.
- ④ EXCESS MUCK MATERIAL WHICH SHALL BE USED ON FILL SLOPES THROUGHOUT PROJECT AS DIRECTED BY THE ENGINEER AND DETAILED ON SHEET 48.
- ⑤ BACKFILL FOR MUCK EXCAVATION AS SHOWN ON SHEET NO. 48.
- ⑥ TOTAL EMBANKMENT (CV) REQUIRED FOR PROJECT.
- ⑦ TOTAL BORROW (CV) REQUIRED FOR PROJECT.
- ⑧ CONSISTS OF 19,000 CU. YD. (EV) STOCKPILED ON PROJECT AND 137,780 CU. YD. (EV) AVAILABLE THROUGHOUT PROJECT.
- ⑨ INCLUDES 4630 CU. YD. (CV) MUCK MATERIAL AND 52,682 CU. YD. (CV) TOPSOIL FROM EXCAVATION TO BE USED AS EMBANKMENT. (SEE NOTES 3 AND 4 ABOVE).
- ⑩ CONSISTS OF EMBANKMENT PLACED ABOVE THE GRADING GRADE. SEE TYPICAL SECTIONS. FOR LOCATIONS, SEE TABULATION THIS SHEET.
- ⑪ FOR LOCATIONS, SEE TABULATION THIS SHEET.
- ⑫ MUCK EXCAVATION MATERIAL TO BE USED AS A POND LINER. FOR DETAILS SEE SHEET NO. 49.
- ⑬ FOR TABULATION AND DETAIL, SEE SHEET NO. 197.
- ⑭ PROVIDED FOR BACKFILL OF BITUMINOUS PAVEMENT REMOVAL AREAS. QUANTITY IS NOT INCLUDED WITH CROSS SECTION EARTHWORK TABULATIONS.
- ⑮ INPLACE TOPSOIL STOCKPILE. FOR LOCATION SEE SHEET NO. 60.
- ⑯ ESTIMATED AMOUNT OF SELECT GRADING MATERIAL AVAILABLE ON PROJECT.
- ⑰ FOR DETAILS SEE SHEET NO. 61.
- ⑱ ESTIMATED AMOUNT OF GRANULAR MATERIAL AVAILABLE ON PROJECT.
- ⑲ CONSISTS OF 16,281 CU. YD. (EV) AT CO. RD. J AND 3369 CU. YD. (EV) RT. T.H. 10 E.B. AT SNAIL POND.

TYPICAL WITH 2105 PAY ITEMS				
EARTHWORK TABULATION AND SUMMARY				
DRAWN BY: CT	CHECKED BY: HS	CERTIFIED BY: Will D. Zine LICENSED PROFESSIONAL ENGINEER	LIC. NO. 00000	DATE 2/01/99
STATE PROJ. NO. 0000-00 (T.H. 00)	SHEET NO. 8	OF 84 SHEETS		



EARTHWORK QUANTITIES										
STATION TO STATION		EXCAVATION		EMBANKMENT				TOTAL EXCAVATION	TOTAL EMBANKMENT	
		COMMON	SUBGRADE	COMMON (CV)	GRANULAR (CV)	SELECT (CV)	TOPSOIL			
		CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	
PNBSNHAM										
10+00.00	TO 10+50.00	186	184	3	129	113		32	370	277
10+50.00	TO 11+00.00	182	445		280	230		27	627	537
11+00.00	TO 11+50.00	208	538	71	378	236		51	746	736
11+50.00	TO 12+00.00	200	548	127	400	241		70	748	838
12+00.00	TO 12+50.00	198	549	113	381	249		83	747	826
12+50.00	TO 13+00.00	231	536	115	361	256		104	767	836
13+00.00	TO 13+50.00	226	496	107	361	257		99	722	824
13+50.00	TO 14+00.00	219	458	91	362	259		95	677	807
14+00.00	TO 14+50.00	203	422	78	366	263		93	625	800
14+50.00	TO 15+00.00	188	376	86	375	269		92	564	822
15+00.00	TO 15+50.00	183	322	107	401	277		94	505	879
15+50.00	TO 16+00.00	180	270	174	428	285		96	450	983
16+00.00	TO 16+50.00	141	215	353	444	290		94	356	1181
16+50.00	TO 17+00.00	107	176	677	456	295		93	283	1521
17+00.00	TO 17+50.00	109	159	1079	461	298		97	268	1935
17+50.00	TO 18+00.00	109	145	1428	472	306		98	254	2304
18+00.00	TO 18+50.00	111	121	1754	495	324		95	232	2668
18+50.00	TO 19+00.00	117	56	2178	437	287		87	173	2989
19+00.00	TO 19+50.00	129	4	2727	365	235		83	133	3410
19+50.00	TO 20+00.00	142		3239	365	231		87	142	3922
20+00.00	TO 20+50.00	152		3617	365	231		94	152	4307
20+50.00	TO 21+00.00	172		3900	366	231		107	172	4604
21+00.00	TO 21+50.00	230		4156	366	231		120	230	4873
21+50.00	TO 22+00.00	280		4430	366	230		125	280	5151
22+00.00	TO 22+50.00	286		4557	401	217	36	124	286	5335
22+50.00	TO 23+00.00	289		4633	440	200	79	121	289	5473
23+00.00	TO 23+50.00	297		4873	453	188	92	120	297	5726
23+50.00	TO 24+00.00	315		5195	485	181	108	124	315	6093
24+00.00	TO 24+50.00	349		5582	530	183	129	130	349	6554
24+50.00	TO 25+00.00	411		5998	577	189	151	136	411	7051
25+00.00	TO 25+50.00	479		6396	630	195	177	143	479	7541
25+50.00	TO 26+00.00	322		6683	674	196	207	118	322	7878
26+00.00	TO 26+50.00	138		6894	712	196	228	92	138	8122
26+50.00	TO 27+00.00	143		7154	768	197	241	98	143	8458
27+00.00	TO 27+50.00	146		7319	837	199	234	104	146	8693
27+50.00	TO 28+00.00	147		7276	901	201	209	109	147	8696
28+00.00	TO 28+50.00	138		6625	848	194	249	101	138	8017
28+50.00	TO 29+00.00	118		5735	736	189	313	80	118	7053
29+00.00	TO 29+50.00	86		4030	599	134	323	65	86	5151
SUB-TOTALS		7867	6020	119560	18771	8983	2776	3781	13887	153871
32+50.00	TO 33+00.00	88		3987	365	246		70	88	4668
33+00.00	TO 33+50.00	126		5390	495	330		112	126	6327
33+50.00	TO 34+00.00	122		4987	425	290		107	122	5809
34+00.00	TO 34+50.00	379		4794	370	246		132	379	5542
34+50.00	TO 35+00.00	717		5953	409	264		184	717	6810
35+00.00	TO 35+50.00	493		7026	406	264		193	493	7889
35+50.00	TO 36+00.00	548		6189	347	235		170	548	6941
SUB-TOTALS		2473		38326	2817	1875		968	2473	43986

SAMPLE PLAN

TYPICAL WITH 2106 PAY ITEMS

Will D. Zine
LICENSED PROFESSIONAL ENGINEER

DRAWN BY: CT

CHECKED BY: HS

CERTIFIED BY

LIC. NO. 00000 DATE 2/24/11

EARTHWORK QUANTITIES										
STATION TO STATION		EXCAVATION		EMBANKMENT				TOTAL EXCAVATION	TOTAL EMBANKMENT	
		COMMON	SUBGRADE	COMMON (CV)	GRANULAR (CV)	SELECT (CV)	TOPSOIL			
		CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	
PNBSNHAM										
38+00.00	TO 38+50.00	121	2	1226	376	246		90	123	1938
38+50.00	TO 39+00.00	112	2	983	380	248		83	114	1694
39+00.00	TO 39+50.00	106		735	365	244		70	106	1414
39+50.00	TO 40+00.00	80		477	324	216		53	80	1070
40+00.00	TO 40+50.00	50	7	370	274	185		35	57	864
40+50.00	TO 41+00.00	149	27	577	285	197		58	176	1117
41+00.00	TO 41+50.00	295	39	559	294	201		75	334	1129
41+50.00	TO 42+00.00	177	233							

ALIGNMENT	EARTHWORK SUMMARY A										
	EXCAVATION				EMBANKMENT				TOTAL EXCAVATION	TOTAL EMBANKMENT	
	COMMON ⁽¹⁾	SUBGRADE	STRUCTURE CL U	MUCK	SPECIAL ⁽²⁾	COMMON (CV)	GRANULAR (CV)	SELECT GRANULAR (CV)			
	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	
P694WB1 STA 613+00 TO 673+50	363311	57178	16143		17681	43488	47415	23295	4188	454313	118386
P694WB1 STA 676+00 TO 684+20.79	2548	58	1494			71977	7986	3494	1020	4100	84477
P694WB1 STA 685+35.29 TO 709+04	43135	26447				13217	19625	9053		69582	41895
PNBSNHAM STA 10+00 TO 29+50	7867	6020				123341	18771	8983	2776	13887	153871
PNBSNHAM STA 32+50 TO 36+00	2473					39294	2817	1875		2473	43986
PNBSNHAM STA 38+00 TO 48+64	1962	4480				6795	5649	4054		6442	16498
NBR STA 579+50 TO 584+00	1959					357				1959	357
NBR STA 585+00 TO 588+05	348					217				348	217
PNB10 14+50 TO 75+20	121852	35681				41581	33576	23304		157533	98461
PEBCD1 STA 15+50 TO 33+00	16913	4634		1080		20323	7712	4410		22627	32445
PEBCD1 STA 49+50 TO 56+50	612	782	1373			5529	2351	1091	1272	2767	10243
PSB10 STA 657+00 TO 684+03	35516	18135	7655			16593	11628	7901	2479	61306	38601
PNLOOP STA 13+75 TO 21+50	37313	2766				1994	1817	1340		40079	5151
PSLOOP STA 13+20 TO 21+50	19218	1279				25622	3044	1921		20497	30587
PCORDF STA 13+15 TO 15+00	4344	1322				553	737	597		5666	1887
LEXNWR STA 5+41 TO 15+00	4065	1487				3113	2917	1928		5552	7958
LEXSWR STA 18+35 TO 20+50	796	752				129	389	352		1548	870
OLD10 STA 21+00 TO 24+60	1231	1506				471	787	719		2737	1977
BRIDGE APPROACH TREATMENT						23688			15179		38867
POND P0	⁽³⁾ 378										378
POND P1	⁽³⁾ 1200										1200
POND P2	⁽³⁾ 1346										1346
POND P4	⁽³⁾ 950										950
POND P5	⁽³⁾ 962										962
POND P6	⁽³⁾ 291										291
NBR STA 579+56 TO 583+29	⁽⁵⁾ 972										972
GRADING SITE "A"	⁽⁶⁾ 608					107				608	107
ISLAND LAKE MITIGATION SITE	⁽¹⁾ 104										104
BYPASS1	⁽⁴⁾ 2011					1499				2011	1499
BYPASS2	⁽⁴⁾ 3308					2375				3308	2375
BYPASS3	⁽⁴⁾ 6114					4887				6114	4887
BYPASS4	⁽⁴⁾ 3818					3485				3818	3485
BYPASS5	⁽⁴⁾ 780					584				780	584
BYPASS6	⁽⁴⁾ 418					314				418	314
BYPASS7	⁽⁴⁾ 2815					2442				2815	2442
BYPASS8	⁽⁴⁾ 5496					4582				5496	4582
BYPASS9	⁽⁴⁾ 46126					45224				46126	45224
BYPASS10	⁽⁴⁾ 1165					870				1165	870
BYPASS11	⁽⁴⁾ 110					55				110	55
BYPASS12	⁽⁴⁾ 475					285				475	285
BYPASS13	⁽⁴⁾ 549					392				549	392
	⁽⁸⁾ 5					7				5	7
PROJECT TOTALS	745464	162527	26665	1080	17681	505383	167228	94317	26914	953417	793842

BRIDGE APPROACH TREATMENT				
BRIDGE NO.	ALIGNMENT	ABUTMENT LOCATION	SELECT GRANULAR EMBANKMENT MOD 10% (CV) ⁽⁹⁾	COMMON EMBANKMENT (CV) ⁽⁷⁾
62716	P694WB1	WEST	630	1092
62716	P694WB1	EAST	670	1168
62717	P694EB1	WEST	707	1207
62717	P694EB1	EAST	753	1294
62719	P694WB1	WEST	1096	1027
62719	P694WB1	EAST	1451	1267
62720	P694EB1	WEST	690	1578
62720	P694EB1	EAST	834	1999
62051	PNBSNHAM	SOUTH	1385	4132
62051	PNBSNHAM	NORTH	1367	4582
62052	PNBSNHAM	SOUTH	2709	2163
62052	PNBSNHAM	NORTH	2887	2179
TOTALS			15179	23688

SAMPLE PLAN

TYPICAL WITH 2106 PAY ITEMS

SHEET 4 OF 4

EARTHWORK SUMMARY