

QUANTITIES SHEETS
CONTRACT NO. XXXX-XXXX
BOOK 2 OF 2

CENTRAL REGION
(90% COMPLETION RE-SUBMISSION)
OCTOBER 1, 2010

Ministry of Transportation



INDEX

W.P. No. _____
Contract No. _____

2005-07-00

[illegible][illegible]

DRAWING NAME:	DWGNAME	CREATED	MODIFIED:	MODDATE	MODTIME

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

Location and Position	Highway Fence	Brace Panels	Gates		Chain Link Fence [Top Wire]	Wild Life Attachment		Gates					References
Sub - Totals Brought Forward:													
Highway 404													
33+603 - 34+000 61.4 - 60.9 LT					335								
33+603 - 33+971 61.4 - 55.0 LT						372							
33+760 - 33+816 57.9 - 56.1 RT					57								
33+816 - 33+852 56.1 - 78.4 RT					42								
33+852 - 33+856 78.4 - 128.4 RT					50								
33+856 - 34+005 128.4 - 133.1 RT					151								
34+005 - 34+017 133.1 - 133.7 RT					12	12							
34+014 - 34+017 99.1 - 133.7 RT					35	35							
34+014 - 34+050 99.1 - 60.3 RT					53	53							
33+995 - 34+093 55.2 - 53.1 LT						101							
34+093 - 34+408 53.1 - 63.3 LT					315								
34+078 - 34+176 60.4 - 65.0 RT					100	100							
34+176 - 34+409 65.0 - 54.7 RT					233								
34+411 54.8 RT			1										
34+411 - 34+614 54.8 - 54.7 RT	203												
34+614 54.7 RT		2											
34+411 63.1 LT		1											
34+411 - 34+691 63.1 - 54.7 LT	280												
Sub - Totals Carried Forward:	483	4	0		1383	673		0					
TOTALS	(P)	(P)	(P)		(P)			(P)					
UNIT	m	each	each		m	m		each					
ITEM No.	68	69	70		71	-		72					
Reference													
Reference													CHKD. _____ APPR. _____ DATE _____

SHEET
102

Location and Position	Highway Fence	Brace Panels	Gates		Chain Link Fence [Top Wire]	Wild Life Attachment		Gates					References
Sub - Totals Brought Forward:	483	4	0		1383	673		0					
34+691 54.7 LT		1											
34+614 - 34+626 54.7 - 271.7 RT	217												
34+626 271.7 RT		1											
34+636 159.4 RT		2											
34+636 - 34+642 159.4 - 270.8 RT	112												
34+642 270.8 RT		1											
34+636 - 34+753 159.4 - 158.7 RT	117												
34+748 69.7 RT		2											
34+748 - 34+753 69.7 - 158.7 RT	89												
34+753 158.7 RT		2											
34+748 - 34+924 69.7 - 69.7 RT	176												
34+924 69.7 RT		1											
34+710 54.7 LT		1											
34+710 - 34+924 54.7 - 54.7 LT	213												
34+924 54.7 LT		1											
34+926 - 35+006 54.8 - 61.7 LT					81								
35+006 - 35+046 61.7 - 59.5 LT					40								
35+031 - 35+033 141.0 - 100.4 LT					41								
Sub - Totals Carried Forward:	1407	16	0		1545	673		0					
TOTALS	(P)	(P)	(P)		(P)			(P)					
UNIT	m	each	each		m	m		each					
ITEM No.	68	69	70		71	-		72					
Reference													
													CHKD. _____ APPR. _____ DATE _____

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Contract No.

103

Fence. Gates.

Contract No.

Location and Position	Highway Fence	Brace Panels	Gates		Chain Link Fence [Top Wire]	Wild Life Attachment		Gates					References
Sub - Totals Brought Forward:	3404	23	0		2018	673		0					
35+860 61.7 LT		2											
35+860 - 35+876 61.7 - 54.7 LT	17												
35+876 54.7 LT		2											
35+876 - 36+252 54.7 - 54.7 LT	377												
36+252 54.7 LT		2											
36+243 - 36+252 225.6 - 54.7 LT	171												
36+243 225.6 LT		2											
36+243 - 36+446 225.6 - 210.9 LT	204												
36+446 210.9 LT		2											
36+446 - 36+454 210.9 - 59.6 LT	152												
36+454 59.6 LT		2											
36+454 - 37+042 59.6 - 81.2 LT	604												
37+042 81.2 LT		1											
36+445 - 36+450 54.7 - 129.3 RT					75								
36+450 - 36+484 129.3 - 131.5 RT					34								
36+461 - 36+465 54.7 - 111.0 RT					56								
36+465 - 36+500 111.0 - 113.2 RT					35								
36+463 54.7 RT		1											
Sub - Totals Carried Forward:	4929	37	0		2218	673		0					
TOTALS	(P)	(P)	(P)		(P)			(P)					
UNIT	m	each	each		m	m		each					
ITEM No.	68	69	70		71	-		72					
Reference													
													CHKD. _____ APPR. _____ DATE _____

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Contract No.

105

Fence Gates

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

Location and Position	Highway Fence	Brace Panels	Gates		Chain Link Fence [Top Wire]	Wild Life Attachment		Gates					References
Sub - Totals Brought Forward:	9168	43	0		2692	673		0					
Woodbine Ave.													
9+353 14.3 LT		1											
9+353 - 9+430 14.3 - 24.7 LT	78												
9+430 24.7 LT		1											
9+353 16.1 RT		1											
9+353 - 9+712 16.1 - 39.2 RT	360												
9+712 39.2 RT		2											
9+712 - 9+720 39.2 - 90.0 RT	52												
9+720 90.0 RT		2											
9+720 - 9+724 90.0 - 92.0 RT	5												
9+724 92.0 RT		2											
9+724 - 9+725 92.0 - 95.8 RT	4												
9+725 95.8 RT		2											
9+725 - 9+820 95.8 - 101.6 RT	98												
9+820 101.6 RT		2											
9+820 - 9+821 101.6 - 41.3 RT	60												
9+821 41.3 RT		2											
9+821 - 10+509 41.3 - 34.6 RT	691												
10+509 34.6 RT		2											
Sub - Totals Carried Forward:	10516	60	0		2692	673		0					
TOTALS	(P)	(P)	(P)		(P)			(P)					
UNIT	m	each	each		m	m		each					
ITEM No.	68	69	70		71	-		72					
Reference													
Reference													CHKD. _____ APPR. _____ DATE _____

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

Location and Position	Highway Fence	Brace Panels	Gates		Chain Link Fence [Top Wire]	Wild Life Attachment		Gates					References
Sub - Totals Brought Forward:	10516	60	0		2692	673		0					
10+509 - 10+530 34.6 - 50.4 RT	26												
10+530 50.4 RT		1											
9+438 24.7 LT			1										
9+447 24.0 LT		1											
9+447 - 9+556 24.0 - 24.8 LT	109												
9+556 24.8 LT		2											
9+555 - 9+556 30.0 - 24.8 LT	5												
9+555 30.0 LT		2											
9+555 - 9+681 30.0 - 64.6 LT	131												
9+681 64.6 LT		1											
10+579 41.5 RT		1											
10+579 - 10+601 41.5 - 20.5 RT	31												
10+601 20.5 RT		2											
10+601 - 10+708 20.5 - 20.6 RT	106												
10+708 20.6 RT		1											
10+644 20.2 LT		1											
10+644 - 10+688 20.2 - 16.3 LT													
10+688 16.3 LT		1											
Sub - Totals Carried Forward:	10924	73	1		2692	673		0					
TOTALS	(P)	(P)	(P)		(P)			(P)					
UNIT	m	each	each		m	m		each					
ITEM No.	68	69	70		71	-		72					
Reference													
Reference													CHKD. _____ APPR. _____ DATE _____

90-02

PH-D-502

MINISTRY OF TRANSPORTATION - ONTARIO

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

Location and Position	Highway Fence	Brace Panels	Gates		Chain Link Fence [Top Wire]	Wild Life Attachment		Gates					References
Sub - Totals Brought Forward:	10924	73	1		2692	673		0					
10+652 20.5 RT			1										
Ravenshoe Rd													
9+466 15.1 LT		1											
9+466 - 9+561 15.1 - 15.2 LT	95												
9+561 15.2 LT		1											
9+508 25.9 RT		1											
9+508 - 9+615 25.9 - 28.6 RT	107												
9+615 28.6 RT		1											
9+703 23.7 LT		1											
9+703 - 9+865 23.7 - 16.9 LT	162												
9+865 16.9 LT		1											
9+703 23.4 RT		1											
9+703 - 10+033 23.4 - 19.4 RT	329												
10+033 19.4 RT		1											
9+874 16.7 LT		1											
9+874 - 9+917 16.7 - 12.8 LT	43												
9+917 12.8 LT		1											
10+037 19.5 RT								1					
Sub - Totals Carried Forward:	11660	83	2		2692	673		1					
	(P)	(P)	(P)		(P)			(P)					
TOTALS													
UNIT	m	each	each		m	m		each					
ITEM No.	68	69	70		71	-		72					
Reference													
													CHKD. _____ APPR. _____ DATE _____

Fence, Gates

Contract No.

Enzo Gates

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[illegible]

Fence Gates

Contract No.

111

[illegible]

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

Location and Position	Delineator Posts [Steel]		Single Rail Steel Beam Guide Rail [OPSD 912.140]	Single Rail Steel Beam Guide Rail with Channel [OPSD 912.140]		Concrete Barrier [911.130] [A-2]	Tall Wall Barrier [TW] [OPSD 911.132]						References
Sub - Totals Brought Forward:													
Highway 404													
33+760 - 36+516 LT	20												
33+760 - 36+516 RT	20												
36+516 - 37+064 LT	9												
36+516 - 36+919 RT	7												
36+935 - 37+051 15.0 - 15.0 RT			116										
36+963 - 37+077 28.3 - 28.3 RT							112						
37+051 - 37+072 15.0 - 14.5 RT				20									
37+102 - 37+121 27.5 - 27.8 LT				20									
37+113 - 38+159 RT	15												
37+121 - 37+213 27.8 - 28.0 LT			94										
37+105 - 37+125 14.5 - 15.0 LT				20									
37+125 - 37+242 15.0 - 15.0 LT			118										
37+258 - 38+512 LT	18												
S-N/S Ramp													
10+326 5.9 LT	1												
10+353 6.8 LT	1												
10+375 6.7 LT	1												
Sub - Totals Carried Forward:	92		328	60		0	112						
TOTALS	(P)		(P)	(P)		(P)	(P)						
UNIT	each		m	m		m	m						
ITEM No.	76		77	78		79	80						
Reference													
													CHKD. _____ APPR. _____ DATE _____

Delineators, SBGR, Concrete Barrier

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

Location and Position	Delineator Posts [Steel]		Single Rail Steel Beam Guide Rail [OPSD 912.140]	Single Rail Steel Beam Guide Rail with Channel [OPSD 912.140]		Concrete Barrier [911.130] [A-2]	Tall Wall Barrier [TW] [OPSD 911.132]						References
Sub - Totals Brought Forward:	92		328	60		0	112						
10+401 6.8 LT	1												
10+410 6.9 LT	1												
10+445 6.9 LT	1												
10+476 7.0 LT	1												
10+480 7.0 LT	1												
10+515 7.0 LT	1												
10+541 6.7 LT	1												
10+551 6.5 LT	1												
10+577 6.6 LT	1												
10+626 6.8 LT	1												
10+637 6.9 LT	1												
10+691 6.7 LT	1												
N-S Ramp													
10+250 6.8 LT	1												
10+266 6.8 LT	1												
10+298 6.8 LT	1												
10+314 6.8 LT	1												
10+322 6.8 LT	1												
Sub - Totals Carried Forward:	109		328	60		0	112						
	(P)		(P)	(P)		(P)	(P)						
TOTALS													
UNIT	each		m	m		m	m						
ITEM No.	76		77	78		79	80						
Reference													
													CHKD. _____ APPR. _____ DATE _____

Delineators, SBGR, Concrete Barrier

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

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Location and Position	Delineator Posts [Steel]		Single Rail Steel Beam Guide Rail [OPSD 912.140]	Single Rail Steel Beam Guide Rail with Channel [OPSD 912.140]		Concrete Barrier [911.130] [A-2]	Tall Wall Barrier [TW] [OPSD 911.132]						References
Sub - Totals Brought Forward:	109		328	60		0	112						
10+326 6.8 LT	1												
10+335 6.8 LT	1												
10+345 6.8 LT	1												
10+355 6.8 LT	1												
10+365 6.8 LT	1												
10+374 6.7 LT	1												
10+384 6.8 LT	1												
10+394 6.9 LT	1												
10+397 6.8 LT	1												
10+403 6.7 LT	1												
10+550 - 10+949 LT	7												
S-S Ramp													
10+020 7.8 RT	1												
10+025 7.8 RT, 3.7 LT	2												
10+030 7.7 RT	1												
10+035 7.5 RT	1												
10+040 7.3 RT	1												
10+045 7.0 RT	1												
Sub - Totals Carried Forward:	133		328	60		0	112						
TOTALS	(P)		(P)	(P)		(P)	(P)						
UNIT	each		m	m		m	m						
ITEM No.	76		77	78		79	80						
Reference													
CHKD. _____ APPR. _____ DATE _____													

Delineators, SBGR, Concrete Barrier

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

Location and Position	Delineator Posts [Steel]		Single Rail Steel Beam Guide Rail [OPSD 912.140]	Single Rail Steel Beam Guide Rail with Channel [OPSD 912.140]		Concrete Barrier [911.130] [A-2]	Tall Wall Barrier [TW] [OPSD 911.132]						References
Sub - Totals Brought Forward:	133		328	60		0	112						
10+050 6.6 RT	1												
10+055 6.5 RT	1												
10+080 3.2 LT	1												
10+100 3.2 LT	1												
10+113 3.0 LT	1												
Boag Road													
9+942 - 9+969 6.8 - 6.8 RT				27									
9+977 - 10+008 23.8 - 23.5 RT			32										
9+993 - 10+025 25.7 - 25.9 LT			32										
10+032 - 10+058 6.7 - 6.7 LT				26									
Holborn Road													
At Cul-De-Sac (West of 404)			17										
At Cul-De-Sac (East of 404)			48										
Boag Road						15							
9+970 - 9+985 LT						15							
9+970 - 9+985 RT						15							
10+014 - 10+029 LT						15							
10+014 - 10+029 RT													
Sub - Totals Carried Forward:	138		457	113		60	112						
	(P)		(P)	(P)		(P)	(P)						
TOTALS													
UNIT	each		m	m		m	m						
ITEM No.	76		77	78		79	80						
Reference													
													CHKD. _____ APPR. _____ DATE _____

Delineators, SBGR, Concrete Barrier

Contract No.

116

Delineators SBGB Concrete Barrier

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

Location and Position	Temporary Concrete Barrier		Temporary Concrete Barrier Left in Place		Steel Beam Energy Attenuating Terminal System [Parallel to Roadway]								References
Sub - Totals Brought Forward:													
Highway 404													
STA. 36+921 15.0 RT					1								
STA. 37+227 28.0 LT					1								
STA. 37+256 15.0 LT					1								
Boag Road													
STA. 9+928 6.7 RT					1								
STA. 10+072 6.7 LT					1								
STAGE 2													
Woodbine Ave.		578											
STA. 9+954 - 10+531 0.2 - 13.3 RT		160											
STA. 10+129 - 10+288 9.2 - 5.4 LT		36											
STA. 10+493 - 10+528 8.4 - 17.3 LT		112											
STA. 10+573 - 10+685 11.7 - 6.7 RT													
Ravenshoe Road													
STA. 9+515 - 9+626 3.9 - 9.9 RT		112											
STA. 9+675 - 9+875 9.4 - 3.1 RT		201											
STA. 9+680 - 9+755 12.0 - 6.0 LT		76											
Sub - Totals Carried Forward:		1275		0	5								
TOTALS	(P)		(P)		(P)								
UNIT	m		m		each								
ITEM No.	81		82		83								
Reference													
CHKD. _____ APPR. _____ DATE _____													

Temporary Concrete Barrier, SBET

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Temporary Concrete Barrier, Obect

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MINISTRY OF TRANSPORTATION - ONTARIO

QUANTITIES - MISCELLANEOUS 1												W.P. No. 2005-07-00	SHEET
												Contract No.	119
Location and Position	Barrier for Tree Protection		Heavy Duty Silt Fence Barriers		Straw Bale Flow Checks		Permanent Rock Flow Checks		Dewatering				References
Sub - Totals Brought Forward:													
Highway 404									100 %				
Within project limits													
33+760 - 33+786 53.5 - 51.3 RT	27												
33+760 - 33+809 46.6 - 46.2 LT	59												
33+819 - 33+824 46.2 - 50.1 LT	6												
33+824 - 33+876 50.1 - 54.0 LT	52												
33+884 51.8 RT					1								
33+885 45.4 LT					1								
33+886 CL					1								
33+912 - 34+051 52.9 - 59.5 RT			140										
33+949 - 34+013 LT (CULV INLET)			65										
34+026 - 34+087 RT (CULV OUTLET)			67										
33+936 - 33+976 119.7 - 69.3 RT (Pond 6)			123										
34+073 - 34+300 58.5 - 44.1 RT			230										
34+000 40.8 LT					1								
34+000 CL					1								
34+000 40.9 RT					1								
34+100 43.1 LT					1								
34+100 CL					1								
Sub - Totals Carried Forward:	144		625		8		0		100 %				
TOTALS	(P)		(P)		(P)		(P)						
UNIT	m		m		each		each		LS				
ITEM No.	84		85		86		87		88				
Reference													
												CHKD. _____	
												APPR. _____	
												DATE _____	

Tree Protection, Silt Fence, Straw Bales, Rock Flow Checks, Dewatering

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

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MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	Barrier for Tree Protection		Heavy Duty Silt Fence Barriers		Straw Bale Flow Checks		Permanent Rock Flow Checks		Dewatering				References
Sub - Totals Brought Forward:	144		625		8		0		100 %				
34+100 40.8 RT					1								
34+108 - 34+122 55.8 - 57.4 RT	14												
34+200 41.8 LT					1								
34+200 CL					1								
34+200 40.8 RT					1								
34+300 40.9 LT					1								
34+300 CL					1								
34+300 40.8 RT					1								
34+399 - 34+418 62.5 - 62.0 LT	19												
34+400 40.9 LT					1								
34+400 CL					1								
34+400 40.9 RT					1								
34+498 40.9 LT					1								
34+498 CL					1								
34+498 43.8 RT					1								
34+597 - 34+681 55.4 - 55.0 LT	83												
34+600 40.8 LT					1								
34+600 CL					1								
34+600 43.8 RT					1								
Sub - Totals Carried Forward:	260		625		24		0		100 %				
TOTALS	(P)		(P)		(P)		(P)						
UNIT	m		m		each		each		LS				
ITEM No.	84		85		86		87		88				
Reference													
CHKD. _____ APPR. _____ DATE _____													

Tree Protection, Silt Fence, Straw Bales, Rock Flow Checks, Dewatering

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

Location and Position	Barrier for Tree Protection		Heavy Duty Silt Fence Barriers		Straw Bale Flow Checks		Permanent Rock Flow Checks		Dewatering				References
Sub - Totals Brought Forward:	260		625		24		0		100 %				
34+607 - 34+618 49.7 - 51.0 RT	11												
34+633 253.3 RT							1						
34+420 - 34+600 44.1 - 47.9 RT			181										
34+649 - 34+734 81.9 - 100.3 RT			165										
34+675 43.0 LT					1								
34+681 - 34+686 55.0 - 49.2 LT	8												
34+683 41.8 LT					1								
34+686 - 34+689 49.2 - 49.3 LT	3												
34+689 CL					1								
34+700 CL					1								
34+712 - 34+741 50.2 - 52.0 LT	29												
34+706 49.2 LT					1								
34+800 40.4 LT					1								
34+800 CL					1								
34+800 37.6 RT					1								
34+817 - 35+011 52.3 - 61.8 LT	196												
34+900 - 35+017 49.9 - 60.5 LT			118										
34+900 45.2 LT					1								
Sub - Totals Carried Forward:	507		1089		33		1		100 %				
TOTALS	(P)		(P)		(P)		(P)						
UNIT	m		m		each		each		LS				
ITEM No.	84		85		86		87		88				
Reference													
CHKD. _____ APPR. _____ DATE _____													

Tree Protection, Silt Fence, Straw Bales, Rock Flow Checks, Dewatering

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

SHEET
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PH-D-502

MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	Barrier for Tree Protection		Heavy Duty Silt Fence Barriers		Straw Bale Flow Checks		Permanent Rock Flow Checks		Dewatering				References
Sub - Totals Brought Forward:	507		1089		33		1		100 %				
34+900 CL					1								
34+900 40.7 RT					1								
34+953 - 34+968 53.7 - 51.6 RT	16												
35+000 49.8 LT					1								
35+000 CL					1								
35+000 44.3 RT					1								
35+042 - 35+200 70.5 - 50.0 LT (Pond Holborn)			285										
35+068 55.2 LT					1								
35+100 CL					1								
35+100 46.2 RT					1								
35+135 CL					1								
35+135 46.3 RT					1								
35+145 50.4 LT					1								
35+145 CL					1								
35+145 46.3 RT					1								
35+198 46.4 LT					1								
35+198 CL					1								
35+198 42.6 RT					1								
35+266 - 36+294 73.7 - 58.0 LT (Pond 8)			35										
Sub - Totals Carried Forward:	523		1409		49		1		100 %				
TOTALS	(P)		(P)		(P)		(P)						
UNIT	m		m		each		each		LS				
ITEM No.	84		85		86		87		88				
Reference													
CHKD. _____ APPR. _____ DATE _____													

Tree Protection, Silt Fence, Straw Bales, Rock Flow Checks, Dewatering

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

SHEET

123

90-02

PH-D-502

MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	Barrier for Tree Protection		Heavy Duty Silt Fence Barriers		Straw Bale Flow Checks		Permanent Rock Flow Checks		Dewatering				References
Sub - Totals Brought Forward:	523		1409		49		1		100 %				
35+300 37.1 LT					1								
35+300 CL					1								
35+300 37.5 RT					1								
35+400 40.7 LT					1								
35+400 CL					1								
35+400 40.8 RT					1								
35+500 40.9 LT					1								
35+500 CL					1								
35+500 40.8 RT					1								
35+507 - 35+551 53.5 - 53.6 RT	43												
35+570 - 35+661 53.9 - 48.6 RT	91												
35+600 40.8 LT					1								
35+600 CL					1								
35+600 40.8 RT					1								
35+700 40.8 LT					1								
35+700 CL					1								
35+700 40.8 RT					1								
35+800 40.8 LT					1								
Sub - Totals Carried Forward:	657		1409		65		1		100 %				
TOTALS	(P)		(P)		(P)		(P)						
UNIT	m		m		each		each		LS				
ITEM No.	84		85		86		87		88				
Reference													
CHKD. _____ APPR. _____ DATE _____													

Tree Protection, Silt Fence, Straw Bales, Rock Flow Checks, Dewatering

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

Location and Position	Barrier for Tree Protection		Heavy Duty Silt Fence Barriers		Straw Bale Flow Checks		Permanent Rock Flow Checks		Dewatering				References
Sub - Totals Brought Forward:	657		1409		65		1		100 %				
35+800 CL					1								
35+800 40.9 RT					1								
35+842 - 36+105 57.3 - 55.0 LT	265												
35+847 - 36+110 58.7 - 54.9 RT	266												
35+897 40.9 LT					1								
35+897 CL					1								
35+897 40.8 RT					1								
36+000 40.9 LT					1								
36+000 CL					1								
36+000 45.2 RT					1								
36+040 - 37+089 52.3 - 52.6 RT			1039										
36+100 47.7 LT					1								
36+100 CL					1								
36+100 46.9 RT					1								
36+151 - 36+259 55.0 - 55.2 LT	108												
36+200 49.1-LT					1								
36+200 CL					1								
36+200 45.7 RT					1								
36+237 - 36+264 55.0 RT	27												
Sub - Totals Carried Forward:	1323		2448		79		1		100 %				
TOTALS	(P)		(P)		(P)		(P)						
UNIT	m		m		each		each		LS				
ITEM No.	84		85		86		87		88				
Reference													
													CHKD. _____ APPR. _____ DATE _____

Tree Protection, Silt Fence, Straw Bales, Rock Flow Checks, Dewatering

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

Location and Position	Barrier for Tree Protection		Heavy Duty Silt Fence Barriers		Straw Bale Flow Checks		Permanent Rock Flow Checks		Dewatering				References
Sub - Totals Brought Forward:	1323		2448		79		1		100 %				
36+270 49.3 LT					1								
36+275 CL					1								
36+275 45.9 RT					1								
36+283 49.3 LT					1								
36+285 CL					1								
36+285 45.9 RT					1								
36+321 47.2 LT					1								
36+400 44.5 LT					1								
36+400 CL					1								
36+400 43.4 RT					1								
36+447 - 36+550 54.1 - 62.1 LT	104												
36+456 - 36+678 51.0 - 46.1 RT	220												
36+500 43.8 LT					1								
36+500 CL					1								
36+500 42.1 RT					1								
36+597 45.7 LT					1								
36+597 CL					1								
36+597 39.0 RT					1								
Sub - Totals Carried Forward:	1647		2448		95		1		100 %				
TOTALS	(P)		(P)		(P)		(P)						
UNIT	m		m		each		each		LS				
ITEM No.	84		85		86		87		88				
Reference													
													CHKD. _____ APPR. _____ DATE _____

Tree Protection, Silt Fence, Straw Bales, Rock Flow Checks, Dewatering

90-02
PH-D-502
MINISTRY OF TRANSPORTATION - ONTARIO

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00
Contract No.

SHEET
126

Location and Position	Barrier for Tree Protection		Heavy Duty Silt Fence Barriers		Straw Bale Flow Checks		Permanent Rock Flow Checks		Dewatering				References
Sub - Totals Brought Forward:	1647		2448		95		1		100 %				
36+663 - 36+735 59.3 - 50.0 LT	74												
36+700 44.5 LT					1								
36+700 CL					1								
36+700 39.0 RT					1								
36+800 44.0 LT					1								
36+800 CL					1								
36+800 39.1 RT					1								
36+860 - 36+971 55.2 - 58.9 LT	115												
36+900 41.2 LT					1								
36+900 CL					1								
36+900 39.0 RT					1								
37+000 41.1 LT					1								
37+000 CL					1								
37+000 40.9 RT					1								
37+126 - 37+240 52.3 - 44.5 RT					112								
37+114 41.1 LT					1								
37+136 40.5 RT					1								
37+200 41.1 LT					1								
37+200 CL					1								
Sub - Totals Carried Forward:	1836		2448		223		1		100 %				
TOTALS	(P)		(P)		(P)		(P)						
UNIT	m		m		each		each		LS				
ITEM No.	84		85		86		87		88				
Reference													
													CHKD. _____ APPR. _____ DATE _____

Tree Protection, Silt Fence, Straw Bales, Rock Flow Checks, Dewatering

QUANTITIES - MISCELLANEOUS 1												W.P. No. 2005-07-00	SHEET
												Contract No.	127
Location and Position	Barrier for Tree Protection		Heavy Duty Silt Fence Barriers		Straw Bale Flow Checks		Permanent Rock Flow Checks		Dewatering				References
Sub - Totals Brought Forward:	1836		2448		223		1		100 %				
37+200 40.6 RT					1								
37+257 - 37+309 47.0 - 47.8 RT	51												
37+297 41.2 LT					1								
37+297 CL					1								
37+297 40.5 RT					1								
37+400 41.1 LT					1								
37+400 CL					1								
37+400 40.5 RT					1								
37+500 41.1 LT					1								
37+500 CL					1								
37+500 40.5 RT					1								
37+507 - 37+523 58.8 - 58.4 LT	16												
37+565 - 37+585 56.3 - 57.2 RT	20												
37+600 41.0 LT					1								
37+600 CL					1								
37+600 40.7 RT					1								
37+604 - 37+631 56.8 - 56.1 LT	27												
37+700 41.2 LT					1								
Sub - Totals Carried Forward:	1950		2448		237		1		100 %				
TOTALS	(P)		(P)		(P)		(P)						
UNIT	m		m		each		each		LS				
ITEM No.	84		85		86		87		88				
Reference													
												CHKD. _____	
												APPR. _____	
												DATE _____	

Tree Protection, Silt Fence, Straw Bales, Rock Flow Checks, Dewatering

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

Location and Position	Barrier for Tree Protection		Heavy Duty Silt Fence Barriers		Straw Bale Flow Checks		Permanent Rock Flow Checks		Dewatering				References
Sub - Totals Brought Forward:	1950		2448		237		1		100 %				
37+700 CL					1								
37+700 40.5 RT					1								
37+725 - 37+763 50.7 - 47.9 LT	39												
37+800 41.1 LT					1								
37+800 CL					1								
37+800 40.5 RT					1								
37+815 - 37+837 52.6 - 51.4 RT	22												
37+820 - 37+980 45.9 - 52.5 LT			164										
37+900 41.1 LT					1								
37+900 CL					1								
37+900 40.4 RT					1								
37+911 - 37+954 47.9 - 46.7 RT	42												
37+986 - 38+017 54.5 - 54.9 LT	32												
37+997 41.1 LT					1								
37+997 CL					1								
37+997 40.5 RT					1								
38+077 - 38+102 48.4 - 49.4 RT	25												
38+100 41.1 LT					1								
38+100 CL					1								
Sub - Totals Carried Forward:	2110		2612		250		1		100 %				
TOTALS	(P)		(P)		(P)		(P)						
UNIT	m		m		each		each		LS				
ITEM No.	84		85		86		87		88				
Reference													
													CHKD. _____ APPR. _____ DATE _____

Tree Protection, Silt Fence, Straw Bales, Rock Flow Checks, Dewatering

90-02

PH-D-502

MINISTRY OF TRANSPORTATION - ONTARIO

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

SHEET

129

Location and Position	Barrier for Tree Protection		Heavy Duty Silt Fence Barriers		Straw Bale Flow Checks		Permanent Rock Flow Checks		Dewatering				References
Sub - Totals Brought Forward:	2110		2612		250		1		100 %				
38+100 43.5 RT					1								
38+128 - 38+560 50.3 - 57.3 RT	423												
38+200 41.1 LT					1								
38+200 CL					1								
38+200 44.2 RT					1								
38+200 - 38+574 47.4 - 56.3 RT			365										
38+257 - 38+278 56.2 - 56.5 LT	21												
38+300 44.2 LT					1								
38+300 CL					1								
38+400 44.3 LT					1								
38+400 CL					1								
38+500 44.4 LT					1								
38+500 CL					1								
38+570 44.9 LT					1								
38+570 CL					1								
38+662 CL					1								
S-N/S Ramp													
10+056 19.5 RT					1								
Sub - Totals Carried Forward:	2554		2977		264		1		100 %				
TOTALS	(P)		(P)		(P)		(P)						
UNIT	m		m		each		each		LS				
ITEM No.	84		85		86		87		88				
Reference													
													CHKD. _____ APPR. _____ DATE _____

Tree Protection, Silt Fence, Straw Bales, Rock Flow Checks, Dewatering

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

Location and Position	Barrier for Tree Protection		Heavy Duty Silt Fence Barriers		Straw Bale Flow Checks		Permanent Rock Flow Checks		Dewatering				References
Sub - Totals Brought Forward:	2554		2977		264		1		100 %				
10+155 18.9 RT					1								
10+255 17.9 RT					1								
10+323 12.4 RT					1								
10+327 - 10+445 20.7 - 17.9 RT			113										
10+346 12.5 RT					1								
10+355 12.4 RT					1								
10+400 15.3 LT					1								
10+442 13.1 RT					1								
10+445 - 10+536 17.9 - 57.3 RT (Pond 9)			334										
10+466 - 10+490 17.0 - 15.1 RT			23										
10+466 - 10+534 17.0 - 55.8 (Pond 9)			83										
10+500 13.6 LT					1								
10+500 13.0 RT					1								
10+600 11.2 LT					1								
10+600 15.2 RT					1								
10+664 10.8 LT					1								
10+666 15.5 RT					1								
10+674 15.4 RT					1								
Sub - Totals Carried Forward:	2554		3530		278		1		100 %				
(P) (P) (P) (P)													
TOTALS	m		m		each		each		LS				
UNIT	84		85		86		87		88				
ITEM No.													
Reference													
													CHKD. _____
													APPR. _____
													DATE _____

Tree Protection, Silt Fence, Straw Bales, Rock Flow Checks, Dewatering

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

SHEET

131

Location and Position	Barrier for Tree Protection		Heavy Duty Silt Fence Barriers		Straw Bale Flow Checks		Permanent Rock Flow Checks		Dewatering				References
Sub - Totals Brought Forward:	2554		3530		278		1		100 %				
10+675 11.8 LT					1								
S-S Ramp													
10+071 10.7 LT					1								
N-S Ramp													
10+047 - 10+072 17.9 - 17.2 RT	25												
10+100 11.1 RT					1								
10+224 11.3 RT					1								
10+335 13.0 RT					1								
10+344 13.1 RT					1								
10+425 13.0 RT					1								
10+500 16.7 LT					1								
10+500 13.4 RT					1								
10+600 15.8 LT					1								
10+600 13.5 RT					1								
10+700 15.7 LT					1								
10+700 13.4 RT					1								
10+800 15.4 RT					1								
10+848 - 10+866 28.4 - 30.1 RT	18												
Sub - Totals Carried Forward:	2597		3530		292		1		100 %				
TOTALS	(P)		(P)		(P)		(P)						
UNIT	m		m		each		each		LS				
ITEM No.	84		85		86		87		88				
Reference													
													CHKD. _____ APPR. _____ DATE _____

Tree Protection, Silt Fence, Straw Bales, Rock Flow Checks, Dewatering

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

Location and Position	Barrier for Tree Protection		Heavy Duty Silt Fence Barriers		Straw Bale Flow Checks		Permanent Rock Flow Checks		Dewatering				References
Sub - Totals Brought Forward:	2597		3530		292		1		100 %				
10+881 19.3 RT					1								
Woodbine Ave.													
9+400 11.2 RT					1								
9+433 13.6 LT					1								
9+500 15.6 LT					1								
9+500 15.7 RT					1								
9+500 - 9+510 22.7 - 22.7 LT	10												
9+600 17.2 LT					1								
9+600 15.7 RT					1								
9+606 - 9+708 19.8 - 25.5 RT	103												
9+702 18.9 RT					1								
9+708 - 9+711 25.5 - 67.3 RT	42												
9+711 - 9+726 67.3 - 94.9 RT	33												
9+714 29.3 RT					1								
9+744 - 9+820 101.0 - 101.3 RT			77										
9+774 21.3 LT					1								
9+775 16.0 RT					1								
9+820 19.4 - 101.3 RT			82										
Sub - Totals Carried Forward:	2785		3689		303		1		100 %				
TOTALS	(P)		(P)		(P)		(P)						
UNIT	m		m		each		each		LS				
ITEM No.	84		85		86		87		88				
Reference													
													CHKD. _____ APPR. _____ DATE _____

Tree Protection, Silt Fence, Straw Bales, Rock Flow Checks, Dewatering

QUANTITIES - MISCELLANEOUS 1

Location and Position	Barrier for Tree Protection		Heavy Duty Slit Fence Barriers		Straw Bale Flow Checks		Permanent Rock Flow Checks		Dewatering				References
Sub - Totals Brought Forward:	2785		3689		303		1		100 %				
9+850 18.3 LT					1								
9+850 17.0 RT					1								
9+919 18.6 LT					1								
9+920 18.7 RT					1								
9+930 17.4 LT					1								
9+930 18.8 RT					1								
10+000 18.8 RT					1								
10+022 17.2 LT					1								
10+057 - 10+144 21.8 - 23.2 RT	87												
10+065 17.0 LT					1								
10+100 19.0 RT					1								
10+152 - 10+165 23.6 - 23.6 RT	13												
10+192 - 10+270 23.7 - 24.7 RT	78												
10+200 19.3 RT					1								
10+286 - 10+307 25.5 - 26.6 RT	21												
10+300 20.7 LT					1								
10+400 18.8 LT					1								
10+400 24.5 RT					1								
Sub - Totals Carried Forward:	2984		3689		317		1		100 %				
TOTALS	(P)		(P)		(P)		(P)						
UNIT	m		m		each		each		LS				
ITEM No.	84		85		86		87		88				
Reference													
CHKD. _____ APPR. _____ DATE _____													

Tree Protection, Slit Fence, Straw Bales, Rock Flow Checks, Dewatering

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

Location and Position	Barrier for Tree Protection		Heavy Duty Silt Fence Barriers		Straw Bale Flow Checks		Permanent Rock Flow Checks		Dewatering				References
Sub - Totals Brought Forward:	2984		3689		317		1		100 %				
10+500 19.9 LT					1								
10+500 25.4 RT					1								
10+579 - 10+601 41.5 - 20.2 RT			31										
10+601 - 10+650 20.2 - 19.2 RT			49										
10+606 - 10+633 19.7 - 20.0 LT			28										
10+643 - 10+684 23.3 - 22.4 LT			42										
10+654 - 10+686 18.7 - 18.5 RT			32										
Ravenshoe Rd													
9+251 - 9+401 9.2 - 10.0 RT			150										
9+251 - 9+583 7.1 - 15.1 LT			332										
9+442 13.1 RT					1								
9+525 15.9 RT					1								
9+617 17.0 RT					1								
9+700 16.3 LT					1								
9+700 18.5 RT					1								
9+800 16.3 LT					1								
9+800 16.4 RT					1								
9+803 - 9+866 18.1 - 17.2 LT	62												
Sub - Totals Carried Forward:	3046		4353		326		1		100 %				
TOTALS	(P)		(P)		(P)		(P)						
UNIT	m		m		each		each		LS				
ITEM No.	84		85		86		87		88				
Reference													
													CHKD. _____ APPR. _____ DATE _____

Tree Protection, Silt Fence, Straw Bales, Rock Flow Checks, Dewatering

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

SHEET

135

Location and Position	Barrier for Tree Protection		Heavy Duty Silt Fence Barriers		Straw Bale Flow Checks		Permanent Rock Flow Checks		Dewatering				References
Sub - Totals Brought Forward:	3046		4353		326		1		100 %				
9+859 15.4 LT					1								
9+874 - 9+981 19.7 - 17.5 RT	107												
9+900 15.2 RT					1								
9+957 10.7 LT					1								
10+025 13.0 RT					1								
10+033 10.6 LT					1								
10+059 - 10+080 12.1 - 11.9 LT			21										
10+100 11.0 RT					1								
10+171 10.4 LT					1								
Boag Road													
9+750 10.1 RT					1								
9+750 10.1 LT					1								
9+850 10.1 RT					1								
9+850 10.1 LT					1								
9+950 9.9 RT					1								
9+950 9.3 LT					1								
10+050 10.0 RT					1								
10+050 10.2 LT					1								
Sub - Totals Carried Forward:	3153		4374		341		1		100 %				
TOTALS	(P)		(P)		(P)		(P)						
UNIT	m		m		each		each		LS				
ITEM No.	84		85		86		87		88				
Reference													
CHKD. _____ APPR. _____ DATE _____													

Tree Protection, Silt Fence, Straw Bales, Rock Flow Checks, Dewatering

QUANTITIES - MISCELLANEOUS 1

Location and Position	Barrier for Tree Protection		Heavy Duty Slit Fence Barriers		Straw Bale Flow Checks		Permanent Rock Flow Checks		Dewatering				References
Sub - Totals Brought Forward:	3153		4374		341		1		100 %				
10+150 9.6 RT					1								
10+150 9.3 LT					1								
10+225 7.6 RT					1								
10+250 6.6 LT					1								
10+350 5.9 LT					1								
10+450 6.6 LT					1								
10+550 6.6 LT					1								
Holborn Road													
9+885 - 9+938 9.5 - 11.6 RT	59												
10+060 - 10+081 16.9 - 15.6 LT			21										
10+070 - 10+110 22.0 - 7.4 RT	44												
10+081 - 10+111 16.5 - 5.3 LT	33												
Commuter Lot													
10+075 - 10+101 14.4 - 17.5 RT			48										
Sub - Totals Carried Forward:	3289		4443		348		1		100 %				
TOTALS	(P) 3,289		(P) 4,443		(P) 348		(P) 1		100 %				
UNIT	m		m		each		each		LS				
ITEM No.	84		85		86		87		88				
Reference													
CHKD. _____ APPR. _____ DATE _____													

Tree Protection, Slit Fence, Straw Bales, Rock Flow Checks, Dewatering

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

Location and Position	Energy Attenuator - Permanent, Single Sided [TL-3]		Energy Attenuator - Temporary, Narrow [TL-2]		Geogrid	Snow Fence	Concrete in Toe Wall		Outlet Structures	Ramp Closure Gates		Swing Gates	References
Sub - Totals Brought Forward:													
STAGE 2													
Woodbine Ave.													
9+954 0.2 RT			1										
10+129 9.2 LT			1										
10+288 5.4 LT			1										
10+528 17.3 LT			1										
10+531 13.3 RT			1										
10+573 11.7 RT			1										
Ravenshoe Rd.													
9+515 3.9 RT			1										
9+626 9.9 RT			1										
9+675 9.4 RT			1										
9+680 12.0 LT			1										
9+755 6.0 LT			1										
9+875 3.1 RT			1										
9+957 3.6 LT			1										
STAGE 4													
Highway 404													
Sub - Totals Carried Forward:	0		13		0	0	0 %		0	0		0	
TOTALS	(P)		(P)						(P)	(P)			
UNIT	each		each		m2	m	LS		each	each		each	
ITEM No.	89		90		91	92	93		94	95		96	
Reference													
CHKD. _____ APPR. _____ DATE _____													

Energy Attenuators, Geogrid, Snow Fence, Ramp Closure Gates

QUANTITIES - MISCELLANEOUS 1

Location and Position	Energy Attenuator - Permanent, Single Sided [TL-3]		Energy Attenuator - Temporary, Narrow [TL-2]		Geogrid	Snow Fence	Concrete in Toe Wall		Outlet Structures	Ramp Closure Gates		Swing Gates	References
Sub - Totals Brought Forward:	0		13		0	0	0 %		0	0		0	
36+963 27.9 RT	1												
38+163 16.6 RT	1												
Highway 404													
34+590 - 34+640 LT (SBL)					1505								
34+825 - 34+865 LT (SBL)					1204								
34+885 - 34+970 RT (NBL)					2559								
35+159 - 35+842, 53.7-60.7 LT						685							
35+310 - 35+400 LT (SBL)					2709								
35+525 - 36+615 RT (NBL)					2709								
37+080 - 37+100 LT (SBL)					602								
37+259 - 37+500, 55.5-61.0 LT						248							
37+300 - 37+425 LT (SBL)					3763								
37+700 - 37+840 RT (NBL)					4169								
S-N/S Ramp													
10+650 - 10+700 CL					1309								
N-S Ramp										1			
S-S Ramp										1			
Sub - Totals Carried Forward:	2		13		20529	933	0 %		0	2		0	
	(P)		(P)						(P)	(P)			
TOTALS													
UNIT	each		each		m2	m	LS		each	each		each	
ITEM No.	89		90		91	92	93		94	95		96	
Reference													
													CHKD. _____ APPR. _____ DATE _____

Energy Attenuators, Geogrid, Snow Fence, Ramp Closure Gates

Contract No.

139

[illegible]

Contract No.

Wildlife Culvert, Monitoring Wells

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

SHEET

141

Location and Position	Topsoil from Stockpiles		Sod		Seed and Mulch [Std. Roadside Mix Seeding]	Seed and Mulch [Birdsfoot Trefoil Mix Seeding]	Seed and Mulch [Old Field Mix Seeding]	Seed and Mulch [Naturalized Wetland Mix Seeding]	Seed and Bonded Fibre Matrix [Birdsfoot Trefoil Mix Seeding]				References
Sub - Totals Brought Forward:													
S-N/S Ramp													
10+325 - 10+700 Lt	143								2862				
10+325 - 10+700 Rt.	115								2292				
N-S Ramp													
10+253 - 10+740 Lt.	233								4650				
10+253 - 10+740 Rt.	172								3433				
S-S Ramp													
10+010 - 10+057 Lt.	16								315				
10+010 - 10+057 Rt.	7								133				
Woodbine Ave.													
9+338 - 10+685 Lt.	323								6454				
9+338 - 10+686 Rt.	223								4456				
9+500 - 9+558 Lt.	34		682										
10+567 - 10+593 Lt.	8		156										
Ravenshoe Rd.													
9+251 - 10+115 Lt.	97								1949				
9+251 - 10+116 Rt.	131								2617				
Sub - Totals Carried Forward:	1502		838		0	0	0	0	29161				
TOTALS			(P)		(P)	(P)	(P)	(P)	(P)				
UNIT	m3		m2		m2	m2	m2	m2	m2				
ITEM No.	101		102			103			104				
Reference													
CHKD. _____ APPR. _____ DATE _____													

Topsoil, Sod, Seed & Mulch (Ramps/Woodbine/Ravenshoe/Boag/Holborn/Commuter Lot)

SHEET
142

Contract No.[illegible]

SHEET

43

Landscape Planting (Shrubs)

144

Contract No.

Landscape Planting (Coniferous Trees)

145

Contract No.

andescence Planting (Deciduous Trees)

QUANTITIES - GRADING

W.P. No. 2005-07-00

Contract No.

Description	Earth Excavation (Grading)	Reference	Material Available		Reference	Fill Required										
Sub - Totals Brought Forward:																
Highway 404 - Flexible Pav't (OPTION A)																
33+760 - 33+800																
Cut/Fill	2348		2348			897										
Stripping	1410															
33+800 - 34+150																
Cut/Fill	1069		1069			144946										
Stripping	13989															
34+150 - 34+500																
Cut/Fill	97778		97778			16514										
Stripping	13834															
34+500 - 34+850																
Cut/Fill	105233		105233			475										
Stripping	12992															
34+850 - 35+200																
Cut/Fill	22327		22327			60731										
Stripping	13606															
35+200 - 35+550																
Cut/Fill	40064		40064			6860										
Stripping	12094															
35+550 - 35+900																
Cut/Fill	104391		104391			301										
Stripping	13155															
35+900 - 36+250																
Cut/Fill	16309		16309			53838										
Stripping	13232															
36+250 - 36+600																
Cut/Fill	14784		14784			35781										
Stripping	13553															
Sub - Totals Carried Forward:																
	512168		404303			320343										
(P)																
TOTALS																
UNIT	m3		m3			m3										
ITEM No.	113					-										
Remarks: Volume adjustment factor for earth have been applied to quantities shown.																
Reference																
Total Stripping															CHKD. _____	
Stripping Available															APPR. _____	
Top Soil Required															DATE _____	
Stripping Balance																

QUANTITIES - GRADING

Description	Earth Excavation (Grading)	Reference	Material Available		Reference	Fill Required										
Sub - Totals Brought Forward:	512168		404303			320343										
36+600 - 36+950																
Cut/Fill	18626		18626			57582										
Stripping	13344															
36+950 - 37+300																
Cut/Fill	9973		9973			71926										
Stripping	11226															
37+300 - 37+650																
Cut/Fill	172669		172669			107										
Stripping	13811															
37+650 - 38+000																
Cut/Fill	88669		88669			17073										
Stripping	13062															
38+000 - 38+350																
Cut/Fill	642		642			85029										
Stripping	13190															
38+350 - 38+720																
Cut/Fill	192		192			86511										
Stripping	13999															
Sub-Excavation																
33+900 - 34+160 CL (NBL & SBL)	32093															
36+860 - 37+160 CL (NBL & SBL)	36226															
36+540 - 36+700 RT (NBL)	509															
37+200 - 37+380 LT (SBL)	3533															
38+200 - 38+500 CL (NBL & SBL)	36287															
Sub - Totals Carried Forward:	990219															
(P)																
TOTALS	990,219		695074			638571										
UNIT	m3		m3			m3										
ITEM No.	113					-										
Remarks: Volume adjustment factor for earth have been applied to quantities shown.																
Reference																
Total Stripping186402																
Stripping Available70%130481																
Top Soil Required11573																
Stripping Balance118908																
															CHKD. _____	
															APPR. _____	
															DATE _____	

SHEET

148

[illegible]

Contract No.[illegible]

SHEET
150

Contract No.

Location and Position	Pavement Marking, Durable [Solid, Yellow, 10cm]	Pavement Marking, Durable [Solid, Yellow, 20cm]	Pavement Marking, Durable [Solid, White, 10cm]	Pavement Marking, Durable [3-3-3, White, 10cm]	Pavement Marking, Durable [3-6-3, White, 10cm]	Pavement Marking, Durable [3-9-3, White, 10cm]	Pavement Marking, Durable [3-3-3, White, 20cm]						References
Sub - Totals Brought Forward:													
Highway 404													
33+760 - 38+574 RT	4798												
33+760 - 38+067 RT						1074							
33+760 - 38+574 RT			4792										
33+760 - 38+360 LT	4613												
33+760 - 38+720 LT						1245							
33+760 - 38+720 LT			4982										
38+067 - 38+574 RT					167								
38+360 - 38+654 LT		592											
38+375 - 38+654 LT							281						
38+654 - 38+720 LT				34									
38+654 - 38+720 LT	67												
Sub - Totals Carried Forward:	9478 <small>(P)</small>	592 <small>(M)</small>	9774 <small>(P)</small>	34 <small>(P)</small>	167 <small>(P)</small>	2319 <small>(P)</small>	281 <small>(P)</small>						
TOTALS	UNIT	m	22,645	m	m	m	m	m					
ITEM No.			122										
Reference													

CHKD. _____
 APPR. _____
 DATE ____

[illegible]

SHEET

151

Topsoil, Seed & Mulch (Hwy 404 OPTION A - Flexible Pav't)

QUANTITIES - GRADING

W.P. No. 2005-07-00

Contract No.

SHEET

152

Description	Earth Excavation (Grading)	Reference	Material Available		Reference	Fill Required										
Sub - Totals Brought Forward:																
Highway 404 - Rigid Pav't (OPTION B)																
33+760 - 33+800																
Cut/Fill	1997		1997			1756										
Stripping	1391															
33+800 - 34+150																
Cut/Fill	1025		1025			155606										
Stripping	13895															
34+150 - 34+500																
Cut/Fill	90218		90218			18532										
Stripping	13833															
34+500 - 34+850																
Cut/Fill	96014		96014			602										
Stripping	12983															
34+850 - 35+200																
Cut/Fill	19901		19901			68802										
Stripping	13604															
35+200 - 35+550																
Cut/Fill	34288		34288			10926										
Stripping	12090															
35+550 - 35+900																
Cut/Fill	95958		95958			1313										
Stripping	13153															
35+900 - 36+250																
Cut/Fill	14306		14303			62264										
Stripping	13228															
36+250 - 36+600																
Cut/Fill	13049		13049			44513										
Stripping	13551															
Sub - Totals Carried Forward:																
	474484		366753			364314										
(P)																
TOTALS																
UNIT	m3		m3			m3										
ITEM No.	126					-										
Remarks: Volume adjustment factor for earth have been applied to quantities shown.																
Reference																
Total Stripping														CHKD. _____		
Stripping Available														APPR. _____		
Top Soil Required														DATE _____		
Stripping Balance																

90-02

PH-D-499

MINISTRY OF TRANSPORTATION - ONTARIO

QUANTITIES - GRADING

W.P. No. 2005-07-00

Contract No.

SHEET
153

Description	Earth Excavation (Grading)	Reference	Material Available		Reference	Fill Required										
Sub - Totals Brought Forward:	474484		366753			364314										
36+600 - 36+950																
Cut/Fill	16540		16540			65927										
Stripping	13343															
36+950 - 37+300																
Cut/Fill	8318		8318			78954										
Stripping	11225															
37+300 - 37+650																
Cut/Fill	16336		16336			107										
Stripping	13903															
37+650 - 38+000																
Cut/Fill	82321		82321			20527										
Stripping	13061															
38+000 - 38+350																
Cut/Fill	633		633			96411										
Stripping	13187															
38+350 - 38+720																
Cut/Fill	192		192			98503										
Stripping	13845															
Sub-Excavation																
33+900 - 34+160 CL (NBL & SBL)	32093															
36+860 - 37+160 CL (NBL & SBL)	36226															
36+540 - 36+700 RT (NBL)	509															
37+200 - 37+380 LT (SBL)	3533															
38+200 - 38+500 CL (NBL & SBL)	36287															
Sub - Totals Carried Forward:	786036															

(P)																
TOTALS	786,036		491093			724743										
UNIT	m3		m3			m3										
ITEM No.	126															

Total Stripping	186295
Stripping Available 70%	130407
Top Soil Required	14425
Stripping Balance	115982

Remarks: Volume adjustment factor for earth have been applied to quantities shown.

Reference																
-----------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

CHKD. _____
APPR. _____
DATE _____

Grading (Hwy 404 OPTION B - Rigid Pav't)

SHEET
154

Contract No.[illegible]

QUANTITIES - MISCELLANEOUS 1												W.P. No. 2005-07-00		SHEET 155	
Contract No.															
Location and Position	Rumble Strips - Asphalt												References		
Sub - Totals Brought Forward:															
Highway 404 - Rigid Pav't (OPTION B)															
Highway 404 NBL															
33+760 - 37+076 Rt. Shld.	3313														
37+118 - 38+026 Rt. Shld.	908														
33+760 - 37+071 Lt. Shld.	3311														
37+114 - 38+574 Lt. Shld.	1460														
Highway 404 SBL															
33+760 - 37+058 Rt. Shld.	3298														
37+102 - 38+195 Rt. Shld.	1093														
33+760 - 37+063 Lt. Shld.	3303														
37+105 - 38+720 Lt. Shld.	1615														
Sub - Totals Carried Forward:															
(P)															
TOTALS	18,301														
UNIT	m														
ITEM No.	133														
Reference															
												CHKD. _____			
												APPR. _____			
												DATE _____			

Sub - Totals Carried Forward:

38+654 - 38+720 LT

38+654 - 38+720 LT

38+375 - 38+654 LT

38+360 - 38+654 LT

38+067 - 38+574 RT

33+760 - 38+720 LT

33+760 - 38+720 LT

33+760 - 38+360 LT

33+760 - 38+574 RT

33+760 - 38+067 RT

33+760 - 38+574 RT

Highway 404

Sub - Totals Brought Forward:

Location and Position

Pavement Marking,
Black Base Contrast
Marking

Pavement Marking,
Spray Field Reacted
Polymeric
[Solid, Yellow, 10cm]

Pavement Marking,
Spray Field Reacted
Polymeric
[Solid, Yellow, 20cm]

Pavement Marking,
Spray Field Reacted
Polymeric
[Solid, White, 10cm]

Pavement Marking,
Spray Field Reacted
Polymeric
[3-3-3, White, 10cm]

Pavement Marking,
Spray Field Reacted
Polymeric
[3-6-3, White, 10cm]

Pavement Marking,
Spray Field Reacted
Polymeric
[3-9-3, White, 10cm]

Pavement Marking,
Spray Field Reacted
Polymeric
[3-3-3, White, 20cm]

References

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

SHEET
156

CHKD. _____
APPR. _____
DATE _____

Pavement Marking Black BaseContras/Spray Field Reacted Polymeric (Hwy 404 OPTION B - Rigid Pav't)

QUANTITIES - MISCELLANEOUS 1													W.P. No. 2005-07-00	SHEET 157
													Contract No.	
Location and Position	Topsoil from Stockpiles		Seed and Mulch [Birdsfoot Trefoil Mix Seeding]		Seed and Bonded Fibre Matrix [Birdsfoot Trefoil Mix Seeding]	Seed and Bonded Fibre Matrix [Lowland Mix Seeding]							References	
Sub - Totals Brought Forward:														
Highway 404 - Rigid Pav't (OPTION B)														
33+760 - 38+574 Rt.	4426		43447		45063									
33+760 - 38+720 Median	5038		100765											
33+760 - 38+720 Lt.	4914		47261		51025									
33+960 - 34+000 Lt.	12					246								
34+033 - 34+111 Rt.	35					707								

[illegible]

90-03
PH-M-168
MINISTRY OF TRANSPORTATION - ONTARIO

Page 1 of 3		QUANTITIES - ELECTRICAL MAINTENANCE HOLES AND HANDHOLES										W.P. No. 2005-07-00		SHEET 159											
Contract No.																									
Location		Maintenance Hole No. or Handhole No.	Station	Offset (m) to CL of Structure (Note 1)	Depth (m)	Elevations				Electrical Maintenance Holes [OPSD 2111.020]	Elec Chamber Drains [OPD 2116.02], [Drain to Ditch Outlet]	Elec Chamber Drains [OPSD 2116.02], [Drain to Drainage Pocket]	#6 AWG, Bare Ground Wires	Ground Electrodes [Rods]	Electrical Handholes [460 mm], [Elec. Details 14]										
						Top of Cover			Drain Invert																
Sub - Totals Brought Forward:																									
HWY 404 - TCS1		HH1	38+025	4.5*											1										
HWY 404 - TCS2		HH2	38+025	4.5*											1										
RAMP S-N/S		HH3	10+204	14.5											1										
RAMP S-N/S		HH4	10+204	3.25*											1										
RAMP S-N/S - TCS3		HH5	10+295	4.25*											1										
RAMP S-N/S		HH6	10+337	3.25*											1										
RAMP S-N/S		HH7	10+432	3.25*											1										
RAMP S-N/S		HH8	10+540	3.25*											1										
RAMP S-N/S		HH8A	10+621	3.25*											1										
RAMP S-N/S		HH9	10+666	3.25*											1										
RAMP S-N/S		HH10	10+666	2.0*											1										
WOODBINE AVE.		HH11	10+752	14.3											1										
WOODBINE AVE.		HH12	10+753	13.7											1										
WOODBINE AVE.		HH13	10+752	35.1											1										
WOODBINE AVE.		HH14	9+643	2.75*											1										
Sub - Totals Carried Forward:										0	0	0	0	0	15										
										(P)	(P)	(P)	(P)	(P)	(P)										
TOTALS																									
UNIT										each	m	m	m	each	each										
ITEM No.										154		156	163	164	155										
Remarks: 1. Install at Edge of Shoulder Rounding										Note: 1 When shown without *, offset is from centre or control line of roadway. When shown with *, offset is from edge of travelled pavement (EP).										CHKD. _____		APPR. _____		DATE _____	

Maintenance Holes and Handholes - MTO

90-03
PH-M-168
MINISTRY OF TRANSPORTATION - ONTARIO

Page 2 of 3		QUANTITIES - ELECTRICAL MAINTENANCE HOLES AND HANDHOLES										W.P. No. 2005-07-00 Contract No.		SHEET 160					
Location	Maintenance Hole No. or Handhole No.	Station	Offset (m) to CL of Structure (Note 1)	Depth (m)	Elevations				Electrical Maintenance Holes [OPSD 2111.020]	Elec Chamber Drains [OPD 2116.02], [Drain to Ditch Outlet]	Elec Chamber Drains [OPSD 2116.02], [Drain to Drainage Pocket]	#6 AWG, Bare Ground Wires	Ground Electrodes [Rods]	Electrical Handholes [460 mm], [Elec. Details 14]					
					Top of Cover		Drain Invert												
Sub - Totals Brought Forward:									0	0	0	0	0	15					
WOODBINE AVE.	HH15	9+578	2.75*											1					
WOODBINE AVE.	HH17	9+802	2.75*											1					
WOODBINE AVE.	HH18	9+822	2.75*											1					
WOODBINE AVE.	HH19	9+867	2.75*											1					
WOODBINE AVE.	HH20	9+908	2.75*											1					
WOODBINE AVE.	HH21	10+000	2.75*											1					
WOODBINE AVE.	HH22	10+012	2.75*											1					
WOODBINE AVE.	HH23	10+012	2.75*											1					
RAMP N-S - TCS4	HH24	10+417	4.0*											1					
WOODBINE AVE.	HH25	10+156	11.7											1					
RAMP N-S	HH26	10+244	2.5*											1					
WOODBINE AVE.	HH27	9+751	2.75*											1					
WOODBINE AVE.	HH28	9+753	2.75*											1					
WOODBINE AVE.	MH1	9+703	3.75*					1	7		1	1							
WOODBINE AVE.	MH2	9+729	3.75*					1	7		1	1							
WOODBINE AVE.	MH3	9+744	2.75*					1	6										
Sub - Totals Carried Forward:									3	20	0	2	2	28					
									(P)	(P)	(P)	(P)	(P)	(P)					
TOTALS																			
UNIT									each	m	m	m	each	each					
ITEM No.									154		156	163	164	155					
Remarks: 1. Install at Edge of Shoulder Rounding														Note: 1 When shown without *, offset is from centre or control line of roadway. When shown with *, offset is from edge of travelled pavement (EP).				CHKD. _____ APPR. _____ DATE _____	

Maintenance Holes and Handholes - MTO

Page 3 of 3				QUANTITIES - ELECTRICAL MAINTENANCE HOLES AND HANDHOLES												W.P. No. 2005-07-00				SHEET 161				
				Contract No.																				
Location	Maintenance Hole No. or Handhole No.	Station	Offset (m) to CL of Structure (Note 1)	Depth (m)	Elevations				Electrical Maintenance Holes [OPSD 2111.020]	Elec Chamber Drains [OPD 2116.02], [Drain to Ditch Outlet]	Elec Chamber Drains [OPSD 2116.02], [Drain to Drainage Pocket]	#6 AWG, Bare Ground Wires	Ground Electrodes [Rods]	Electrical Handholes [460 mm], [Elec. Details 14]										
					Top of Cover		Drain Invert																	
Sub - Totals Brought Forward:									3	20	0	2	2	28										
WOODBINE AVE.	MH4	9+749	0.0						1		3													
PARKING LOT ENTRANCE	MH5	10+023	3.5*						1	7		1	1											
PARKING LOT ENTRANCE	MH6	10+025	0.0						1		3													
WOODBINE AVE.	MH7	9+709	3.25*						1	4		1	1											
WOODBINE AVE.	MH8	9+701	0.0						1		3													
Sub - Totals Carried Forward:									8	31	9	4	4	28										
										31	9													
TOTALS									(P) 8	(P)	(P) 40	(P) 2 4	(P) 2 4	(P) 28										
UNIT									each	m	m	m	each	each										
ITEM No.									154		156	163	164	155										
Remarks: 1. Install at Edge of Shoulder Rounding									2. Brought Forward to Power Supply Equipment - MTO									Note: 1 When shown without *, offset is from centre or control line of roadway. When shown with *, offset is from edge of travelled pavement (EP).					CHKD. _____	
																							APPR. _____	
																							DATE _____	

Page 1 of 10				QUANTITIES - RIGID DUCTS AND ASSOCIATED WIRING												W.P. No. 2005-07-00		SHEET 162	
				Contract No.															
Location	From - To OR Station	Distance (m)	UPC No.	Rigid Ducts, Concrete Encased	100 mm	Rigid Ducts, Direct Buried	50 mm	75 mm	100 mm	Cable Brick	Rigid Ducts, Steel Encased by Subsurface Installation	300 mm Steel Encasement	100 mm Ducts	#2 AWG, Low Voltage Cables, in Ducts	#4 AWG, Low Voltage Cables, in Ducts	#6 AWG, Low Voltage Cables, in Ducts			
Sub - Totals Brought Forward:																			
RAMP S-N/S	P1-HH3	85				85	85												
RAMP S-N/S	HH3-HH4	22	1	22	44														
RAMP S-N/S	HH4-P2	5				5	5								15				
RAMP S-N/S	HH4-P3	62				62	124								186				
	P3 - HH5	29				29	58												
RAMP S-N/S	HH5-P4	37				37	74								111				
RAMP S-N/S	P4-HH6	9				9	18								27				
RAMP S-N/S	HH6-P5	56				56	112								168				
RAMP S-N/S	P5-HH7	32				32	64								96				
RAMP S-N/S	HH7-P6	32				32	64								96				
RAMP S-N/S	P6-P7	66				66	132								198				
RAMP S-N/S	P7-HH8	10				10	20								30				
RAMP S-N/S	HH8-P7A	35				35	70								105	210			
RAMP S-N/S	P7A-P8	23				23	69								69	138			
RAMP S-N/S	P8 - HH8A	23				23	69								69	138			
Sub - Totals Carried Forward:				22	44	504	964	0	0	0	0	0	0	0	1170	486			
				(P)		(P)				(P)			(P)		(P)	(P)			
TOTALS																			
UNIT				m	m	m	m	m	m	m	m	m	m	m	m	m			
ITEM No.				157		158				159				160					
Remarks:														CHKD. _____					
														APPR. _____					
														DATE _____					

Page 2 of 10		QUANTITIES - RIGID DUCTS AND ASSOCIATED WIRING										W.P. No. 2005-07-00				SHEET 163	
				Contract No.													
Location		From - To OR Station	Distance (m)	UPC No.	#8 AWG, Low Voltage Cables, in Ducts	#14 AWG, 2-Cond., Extra Low Voltage Cables, in Ducts	#20 AWG, M138 3-Cond., Extra Low Voltage Cables, in Ducts	#14 AWG, 19-Cond Traffic Signal Cables, in Ducts	#14 AWG, 12-Cond Traffic Signal Cables, in Ducts	#14 AWG, 5-Cond Traffic Signal Cables, in Ducts	#6 AWG, Insulated Ground Wires						
Sub - Totals Brought Forward:																	
RAMP S-N/S		P1-HH3	85		510						85						
RAMP S-N/S		HH3-HH4	22	1	132						22						
RAMP S-N/S		HH4-P2	5		30						5						
RAMP S-N/S		HH4-P3	62		372						124						
		P3 - HH5	29		174						58						
RAMP S-N/S		HH5-P4	37		222						74						
RAMP S-N/S		P4-HH6	9		54						18						
RAMP S-N/S		HH6-P5	56		336						112						
RAMP S-N/S		P5-HH7	32		192						64						
RAMP S-N/S		HH7-P6	32		192						64						
RAMP S-N/S		P6-P7	66		396						132						
RAMP S-N/S		P7-HH8	10		60						20						
RAMP S-N/S		HH8-P7A	35								70						
RAMP S-N/S		P7A-P8	23							23	69						
RAMP S-N/S		P8 - HH8A	23							23	69						
Sub - Totals Carried Forward:					2670	0	0	0	0	46	986						
					(P)	(P)	(P)	(P)	(P)	(P)							
TOTALS																	
UNIT					m	m	m	m	m	m							
ITEM No.							161		162		163						
Remarks:													CHKD. _____				
													APPR. _____				
													DATE _____				

Page 3 of 10		QUANTITIES - RIGID DUCTS AND ASSOCIATED WIRING												W.P. No. 2005-07-00		SHEET 164		
		Contract No.																
Location	From - To OR Station	Distance (m)	UPC No.	Rigid Ducts, Concrete Encased	100 mm	Rigid Ducts, Direct Buried	50 mm	75 mm	100 mm	Cable Brick	Rigid Ducts, Steel Encased by Subsurface Installation	300 mm Steel Encasement	100 mm Ducts	#2 AWG, Low Voltage Cables, in Ducts	#4 AWG, Low Voltage Cables, in Ducts	#6 AWG, Low Voltage Cables, in Ducts		
Sub - Totals Brought Forward:				22	44	504	964	0	0	0	0	0	0	0	1170	486		
RAMP S-N/S	HH8A - P9	43				43	86								129	258		
RAMP S-N/S	P9 - HH9	2				2	4								6	12		
RAMP S-N/S	HH9 - MH1	32				32	32											
RAMP S-N/S	MH1 - TC1	5				5			5									
RAMP S-N/S	HH9-HH10	17	2	17	34										51			
RAMP S-N/S	HH10-P10	22				22	44								66			
RAMP S-N/S	P10-EH1	37				37	37			37				74				
WOODBINE AVE.	EH1-P14	48				48	2 144			48				192				
WOODBINE AVE.	P14-MH3	5				5	1 10									10		
WOODBINE AVE.	P14-MH3	4				4	4								12			
WOODBINE AVE.	MH3-MH4	15	4								15	15	45					
WOODBINE AVE.	MH3-P13	4				4		8										
WOODBINE AVE.	MH4-P15	2				2		4										
WOODBINE AVE.	MH4-MH5	22	6								22	22	66					
WOODBINE AVE.	MH5-P16	16				16		32										
WOODBINE AVE.	MH5-P17	6				6		12										
Sub - Totals Carried Forward:				39	78	730	1325	56	5	85	37	37	111	266	1434	766		
				(P)		(P)				(P)			(P)		(P)	(P)		
TOTALS																		
UNIT				m	m	m	m	m	m	m	m	m	m	m	m	m		
ITEM No.				157		158				159					160			
Remarks1. 5.0m Steel Duct for #6 AWG Cables to Traffic Signal Controller.														2. 1-50mm Spare Duct for Bell Cable			CHKD. _____	
																	APPR. _____	
																	DATE _____	

90-03
PH-M-170
MINISTRY OF TRANSPORTATION - ONTARIO

Page 4 of 10				QUANTITIES - RIGID DUCTS AND ASSOCIATED WIRING												W.P. No. 2005-07-00 Contract No.				SHEET 165	
Location				From - To OR Station	Distance (m)	UPC No.	#8 AWG, Low Voltage Cables, in Ducts	#14 AWG, 2-Cond., Extra Low Voltage Cables, in Ducts	#20 AWG, M138 3-Cond., Extra Low Voltage Cables, in Ducts	#14 AWG, 19-Cond Traffic Signal Cables, in Ducts	#14 AWG, 12-Cond Traffic Signal Cables, in Ducts	#14 AWG, 5-Cond Traffic Signal Cables, in Ducts	#6 AWG, Insulated Ground Wires								
Sub - Totals Brought Forward:							2670	0	0	0	0	46	986								
RAMP S-N/S				HH8A - P9	43							43	86								
RAMP S-N/S				P9 - HH9	2							2	4								
RAMP S-N/S				HH9 - MH1	32							32	32								
RAMP S-N/S				MH1 - TC1	5							5	5								
RAMP S-N/S				HH9-HH10	17	2	102						17								
RAMP S-N/S				HH10-P10	22		132						44								
RAMP S-N/S				P10-EH1	37								37								
WOODBINE AVE.				EH1-P14	48								96								
WOODBINE AVE.				P14-MH3	5		20						10								
WOODBINE AVE.				P14-MH3	4								4								
WOODBINE AVE.				MH3-MH4	15	4	30	15		15			30								
WOODBINE AVE.				MH3-P13	4					8			4								
WOODBINE AVE.				MH4-P15	2					4			2								
WOODBINE AVE.				MH4-MH5	22	6	44			22			22								
WOODBINE AVE.				MH5-P16	16		32			32			32								
WOODBINE AVE.				MH5-P17	6			6			6		6								
Sub - Totals Carried Forward:							3030	21	0	81	6	128	1417								
							(P)	(P)	(P)	(P)	(P)	(P)	(P)								
TOTALS							m	m	m	m	m	m	m								
UNIT																					
ITEM No.									161	162		163									
Remarks:																		CHKD. _____ APPR. _____ DATE _____			

Rigid Ducts and Associated Wiring - MTO

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QUANTITIES - RIGID DUCTS AND ASSOCIATED WIRING

W.P. No. 2005-07-00

Contract No.

SHEET 166

Location	From - To OR Station	Distance (m)	UPC No.	Rigid Ducts, Concrete Encased	100 mm	Rigid Ducts, Direct Buried	50 mm	75 mm	100 mm	Cable Brick	Rigid Ducts, Steel Encased by Subsurface Installation	300 mm Steel Encasement	100 mm Ducts	#2 AWG, Low Voltage Cables, in Ducts	#4 AWG, Low Voltage Cables, in Ducts	#6 AWG, Low Voltage Cables, in Ducts
Sub - Totals Brought Forward:				39	78	730	1325	56	5	85	37	37	111	266	1434	766
PARKING LOT ENTRANCE	MH5-MH6	18	7	18	54											
PARKING LOT ENTRANCE	MH6-P18	2				2		4								
PARKING LOT ENTRANCE	MH6-MH7	19	8	19	57											
PARKING LOT ENTRANCE	MH7-P19	8				8		16								
WOODBINE AVE.	MH7-P20	3				3		6								
WOODBINE AVE.	MH7-HH14	66				66	66									
WOODBINE AVE.	HH14-HH15	65				65	65									
WOODBINE AVE.	MH7-MH8	18	9								18	18	54			
WOODBINE AVE.	MH8-P21	2				2		4								
WOODBINE AVE.	MH8-MH1	18	10								18	18	54			
WOODBINE AVE.	MH1-P22	5				5		10								
WOODBINE AVE.	MH1-P11	4				4		8								
WOODBINE AVE.	MH1-TC1	5				5	5		15							10
WOODBINE AVE.	MH1-MH2	26	3								26	26	78			52
WOODBINE AVE.	MH2-P12	4				4		8								
Sub - Totals Carried Forward:				76	189	894	1461	112	20	85	99	99	297	266	1434	828
				(P)		(P)				(P)			(P)	(P)	(P)	
TOTALS																
UNIT				m	m	m	m	m	m	m	m	m	m	m	m	m
ITEM No.				157		158				159					160	
Remarks:														CHKD. _____ APPR. _____ DATE _____		

PH-M-170
MINISTRY OF TRANSPORTATION - ONTARIO

Rigid Ducts and Associated Wiring - MTO

90-03
PH-M-170
MINISTRY OF TRANSPORTATION - ONTARIO

Page 6 of 10				QUANTITIES - RIGID DUCTS AND ASSOCIATED WIRING										W.P. No. 2005-07-00				SHEET 167	
				Contract No.															
Location	From - To OR Station	Distance (m)	UPC No.	#8 AWG, Low Voltage Cables, in Ducts	#14 AWG, 2-Cond., Extra Low Voltage Cables, in Ducts	#20 AWG, M138 3-Cond., Extra Low Voltage Cables, in Ducts	#14 AWG, 19-Cond Traffic Signal Cables, in Ducts	#14 AWG, 12-Cond Traffic Signal Cables, in Ducts	#14 AWG, 5-Cond Traffic Signal Cables, in Ducts	#6 AWG, Insulated Ground Wires									
Sub - Totals Brought Forward:				3030	21	0	81	6	128	1417									
PARKING LOT ENTRANCE	MH5-MH6	18	7		54		18	18		18									
PARKING LOT ENTRANCE	MH6-P18	2					4			2									
PARKING LOT ENTRANCE	MH6-MH7	19	8		57		19	19		19									
PARKING LOT ENTRANCE	MH7-P19	8		16	16		16	16		16									
WOODBINE AVE.	MH7-P20	3			6			6		3									
WOODBINE AVE.	MH7-HH14	66			132														
WOODBINE AVE.	HH14-HH15	65			130														
WOODBINE AVE.	MH7-MH8	18	9	36	90		18	18		18									
WOODBINE AVE.	MH8-P21	2				2	4			2									
WOODBINE AVE.	MH8-MH1	18	10	36	90	18	18	18		18									
WOODBINE AVE.	MH1-P22	5		10			10			5									
WOODBINE AVE.	MH1-P11	4			16			16		4									
WOODBINE AVE.	MH1-TC1	5			60	5	10	10		5									
WOODBINE AVE.	MH1-MH2	26	3	52	156		26	26											
WOODBINE AVE.	MH2-P12	4			4		8	4		4									
Sub - Totals Carried Forward:				3180	832	25	232	157	128	1531									
				(P)	(P)	(P)	(P)	(P)	(P)										
TOTALS																			
UNIT				m	m	m	m	m	m	m									
ITEM No.						161		162		163									
Remarks:													CHKD. _____						
													APPR. _____						
													DATE _____						

Rigid Ducts and Associated Wiring - MTO

90-03
PH-M-170
MINISTRY OF TRANSPORTATION - ONTARIO

Page 7 of 10				QUANTITIES - RIGID DUCTS AND ASSOCIATED WIRING												W.P. No. 2005-07-00		SHEET 168	
				Contract No.															
Location	From - To OR Station	Distance (m)	UPC No.	Rigid Ducts, Concrete Encased	100 mm	Rigid Ducts, Direct Buried	50 mm	75 mm	100 mm	Cable Brick	Rigid Ducts, Steel Encased by Subsurface Installation	300 mm Steel Encasement	100 mm Ducts	#2 AWG, Low Voltage Cables, in Ducts	#4 AWG, Low Voltage Cables, in Ducts	#6 AWG, Low Voltage Cables, in Ducts			
Sub - Totals Brought Forward:				76	189	894	1461	112	20	85	99	99	297	266	1434	828			
WOODBINE AVE.	MH2-MH3	18				18			54							36			
WOODBINE AVE.	MH3-HH17	58				58	116								174				
WOODBINE AVE.	HH17-HH18	20				20	40								60				
WOODBINE AVE.	HH18-HH19	45				45	90								135				
WOODBINE AVE.	HH19-HH20	41				41	41								123				
WOODBINE AVE.	HH20-P34	78				78	78								234				
WOODBINE AVE.	P34-HH21	15				15	15								45				
RAMP S-S	HH21-P35	11				11	11								88				
RAMP S-S	HH21-HH22	12	12	12	24										60				
WOODBINE AVE.	HH22-HH23	28	13	28	56										56				
WOODBINE AVE.	HH23-P36	13				13	13								26				
WOODBINE AVE.	HH22-P37	60				87	87								180				
	P37-P37A	56													168				
WOODBINE AVE.	P37A-HH25	27				57	57								81				
RAMP N-S	HH25-HH26	14	14	14	28										42				
RAMP N-S	HH26-P38	2				2	2								6				
Sub - Totals Carried Forward:				130	297	1339	2011	112	74	85	99	99	297	266	2912	864			
				(P)		(P)				(P)			(P)		(P)	(P)			
TOTALS																			
UNIT				m	m	m	m	m	m	m	m	m	m	m	m	m			
ITEM No.				157		158				159				160					
Remarks:														CHKD. _____ APPR. _____ DATE _____					

Rigid Ducts and Associated Wiring - MTO

90-03
PH-M-170
MINISTRY OF TRANSPORTATION - ONTARIO

QUANTITIES - RIGID DUCTS AND ASSOCIATED WIRING

W.P. No. 2005-07-00

Contract No.

Location	From - To OR Station	Distance (m)	UPC No.	#8 AWG, Low Voltage Cables, in Ducts	#14 AWG, 2-Cond., Extra Low Voltage Cables, in Ducts	#20 AWG, M138 3-Cond., Extra Low Voltage Cables, in Ducts	#14 AWG, 19-Cond Traffic Signal Cables, in Ducts	#14 AWG, 12-Cond Traffic Signal Cables, in Ducts	#14 AWG, 5-Cond Traffic Signal Cables, in Ducts	#6 AWG, Insulated Ground Wires						
Sub - Totals Brought Forward:				3180	832	25	232	157	128	1531						
WOODBINE AVE.	MH2-MH3	18		36	54		18			18						
WOODBINE AVE.	MH3-HH17	58			116					58						
WOODBINE AVE.	HH17-HH18	20			40					20						
WOODBINE AVE.	HH18-HH19	45			90					45						
WOODBINE AVE.	HH19-HH20	41								41						
WOODBINE AVE.	HH20-P34	78								78						
WOODBINE AVE.	P34-HH21	15								15						
RAMP S-S	HH21-P35	11								11						
RAMP S-S	HH21-HH22	12	12							12						
WOODBINE AVE.	HH22-HH23	28	13							28						
WOODBINE AVE.	HH23-P36	13								13						
WOODBINE AVE.	HH22-P37	60								60						
	P37-P37A	56								56						
WOODBINE AVE.	P37A-HH25	27								27						
RAMP N-S	HH25-HH26	14	14							14						
RAMP N-S	HH26-P38	2								2						
Sub - Totals Carried Forward:				3216	1132	25	250	157	128	2029						
				(P)	(P)	(P)	(P)	(P)	(P)	(P)						
TOTALS																
UNIT				m	m	m	m	m	m	m						
ITEM No.						161		162		163						
Remarks:														CHKD. _____		
														APPR. _____		
														DATE _____		

Rigid Ducts and Associated Wiring - MTO

Page 9 of 10				QUANTITIES - RIGID DUCTS AND ASSOCIATED WIRING												W.P. No. 2005-07-00		SHEET 170	
				Contract No.															
Location	From - To OR Station	Distance (m)	UPC No.	Rigid Ducts, Concrete Encased	100 mm	Rigid Ducts, Direct Buried	50 mm	75 mm	100 mm	Cable Brick	Rigid Ducts, Steel Encased by Subsurface Installation	300 mm Steel Encasement	100 mm Ducts	#2 AWG, Low Voltage Cables, in Ducts	#4 AWG, Low Voltage Cables, in Ducts	#6 AWG, Low Voltage Cables, in Ducts			
Sub - Totals Brought Forward:				130	297	1339	2011	112	74	85	99	99	297	266	2912	864			
RAMP N-S	P38-P39	57				57	57								171				
WOODBINE AVE.	P14-HH27	9				9	9												
WOODBINE AVE.	HH27-HH11	28	5								28	28	56						
WOODBINE AVE.	HH11-HH13	22				22	22												
PARKING LOT	HH13-P23	16				16	16												
PARKING LOT	HH13-P29	10				10	10												
PARKING LOT	P29-P24	23				23	23												
PARKING LOT	P24-P24A	23				23	23												
PARKING LOT	P24-P25	56				56	56												
PARKING LOT	P25-P26	59				59	59												
PARKING LOT	P26-HH30	25				25	25												
	HH30-P27	17				17	17												
	P27-P28	23				23	23												
Sub - Totals Carried Forward:				130	297	1679	2351	112	74	85	127	127	353	266	3083	864			
				(P)		(P)				(P)				266	3083	864			
TOTALS				130		1,679					127				8,854				
UNIT				m	m	m	m	m	m	m	m	m	m	m	m	m			
ITEM No.				157		158					159				160				
Remarks:														CHKD. _____ APPR. _____ DATE _____					

Page 10 of 10		QUANTITIES - RIGID DUCTS AND ASSOCIATED WIRING										W.P. No. 2005-07-00		SHEET 171	
												Contract No.			
Location	From - To OR Station	Distance (m)	UPC No.	#8 AWG, Low Voltage Cables, in Ducts	#14 AWG, 2-Cond., Extra Low Voltage Cables, in Ducts	#20 AWG, M138 3-Cond., Extra Low Voltage Cables, in Ducts	#14 AWG, 19-Cond Traffic Signal Cables, in Ducts	#14 AWG, 12-Cond Traffic Signal Cables, in Ducts	#14 AWG, 5-Cond Traffic Signal Cables, in Ducts	#6 AWG, Insulated Ground Wires					
Sub - Totals Brought Forward:				3216	1132	25	250	157	128	2029					
RAMP N-S	P38-P39	57								57					
WOODBINE AVE.	P14-HH27	9		54						9					
WOODBINE AVE.	HH27-HH11	28	5	168						28					
WOODBINE AVE.	HH11-HH13	22		132						22					
PARKING LOT	HH13-P23	16		96						16					
PARKING LOT	HH13-P29	10		60						10					
PARKING LOT	P29-P24	23		138						23					
PARKING LOT	P24-P24A	23		69						23					
PARKING LOT	P24-P25	56		336						56					
PARKING LOT	P25-P26	59		177						59					
PARKING LOT	P26-HH30	25		75						25					
	HH30-P27	17		51						17					
	P27-P28	23		69						23					
Sub - Totals Carried Forward:				4641	1132	25	250	157	128	2397					
				4641	1132	25	250	157	128						
				(P)	(P)	(P)	(P)	(P)	(P)						
TOTALS						1,157		535		2397					
UNIT				m	m	m	m	m	m	m					
ITEM No.						161		162		163					
Remarks3. Brought Forward to Power Supply Equipment - MTO													CHKD. _____		
													APPR. _____		
													DATE _____		

90-03

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QUANTITIES - POLE ASSEMBLIES AND FOOTINGS

W.P. No. 2005-07-00

SHEET 172

Contract No.

Location	Pole No. or Footing No.	Station	Offset (m) to CL of Pole or CL of Footing (Note 1)	#6 AWG, Bare Ground Wires	Ground Electrodes [Rods]	8.7 m, Sectional Steel Pole, Direct Buried in Earth	10.5m, Heavy Class Sectional Steel Poles, Base Mounted	12.0 m, Steel Poles, Base Mounted Octagonal Type	10.5 m, Steel Poles, Base Mounted Octagonal Type	7.0 m, Sectional Steel Poles, Base Mounted	10.5 m, Sectional Steel Poles, Base Mounted	Frangible Bases [OPSD 2428.01]	Concrete Footings In Earth [MTOD 2200.010]	Concrete Footings In Earth [MTOD 2200.050]	400 W HPS Luminaire 120/240 V Ballast c/w 250 W HPS Lamp	400 W HPS Luminaire 120/240 V Ballast c/w 400 W HPS Lamp	
Sub - Totals Brought Forward:																	
RAMP S-N/S	P1	10+220	8.0	1	1					1			1				
RAMP S-N/S	P2	10+200	4.15*	1	1			1				1	1		1		
RAMP S-N/S	P3	10+266	4.15*					1				1	1		1		
RAMP S-N/S	P4	10+333	4.15*					1				1	1		1		
RAMP S-N/S	P5	10+399	4.15*	1	1			1				1	1		1		
RAMP S-N/S	P6	10+465	4.15*					1				1	1		1		
RAMP S-N/S	P7	10+531	4.21*					1				1	1		1		
RAMP S-N/S	P7A	10+575	3.15*	1	1					1			1				
RAMP S-N/S	P8	10+599	3.15*					1				1	1		1		
RAMP S-N/S	P9	10+664	3.15*					1				1	1		1		
RAMP S-N/S	P10	10+681	11.2*			1											
RAMP S-N/S	P11	10+694	14.8							1			1				
RAMP S-N/S	P12	10+695	6.9							1			1				
WOODBINE AVE.	P13	9+740	3.15*							1			1				
WOODBINE AVE.	P14	9+747	6.0*			1											
Sub - Totals Carried Forward:				4	4	2	0	8	0	5	0	8	13	0	8	0	
TOTALS				(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	
UNIT				m	each	each	each	each	each	each	each	each	each	each	each	each	
ITEM No.				163	164	166	167	169		168	170		171			173	
Remarks:												Note: 1 When shown without *, offset is from centre or control line of roadway. When shown with *, offset is from edge of travelled pavement (EP).				CHKD. _____ APPR. _____ DATE _____	

Poles and Footings - MTO

90-03
PH-M-175
MINISTRY OF TRANSPORTATION - ONTARIO

Page 2 of 6		QUANTITIES - POLE ASSEMBLIES AND FOOTINGS										W.P. No. 2005-07-00		SHEET 173			
Location		Pole No. or Footing No.	Station	Offset (m) to CL of Pole or CL of Footing (Note 1)	2.4 m Al. Tapered Elliptical Bracket	#12 AWG Riser Wires 3 Wires/Pole											
Sub - Totals Brought Forward:																	
RAMP S-N/S		P1	10+220	8.0													
RAMP S-N/S		P2	10+200	4.15*	1	13											
RAMP S-N/S		P3	10+266	4.15*	1	13											
RAMP S-N/S		P4	10+333	4.15*	1	13											
RAMP S-N/S		P5	10+399	4.15*	1	13											
RAMP S-N/S		P6	10+465	4.15*	1	13											
RAMP S-N/S		P7	10+531	4.21*	1	13											
RAMP S-N/S		P7A	10+575	3.15*													
RAMP S-N/S		P8	10+599	3.15*	1	13											
RAMP S-N/S		P9	10+664	3.15*	1	13											
RAMP S-N/S		P10	10+681	11.2*													
RAMP S-N/S		P11	10+694	14.8													
RAMP S-N/S		P12	10+695	6.9													
WOODBINE AVE.		P13	9+740	3.15*													
WOODBINE AVE.		P14	9+747	6.0*													
Sub - Totals Carried Forward:					8	104											
TOTALS																	
UNIT				each	m												
ITEM No.																	
Remarks:				Note: 1 When shown without *, offset is from centre or control line of roadway. When shown with *, offset is from edge of travelled pavement (EP).										CHKD. _____ APPR. _____ DATE _____			

Poles and Footings - MTO

90-03				QUANTITIES - POLE ASSEMBLIES AND FOOTINGS										W.P. No. 2005-07-00				SHEET	
Page 3 of 6														Contract No.				174	
Location				Pole No. or Footing No.	Station	Offset (m) to CL of Pole or CL of Footing (Note 1)	#6 AWG, Bare Ground Wires	Ground Electrodes [Rods]	8.7 m, Sectional Steel Pole, Direct Buried in Earth	10.5m, Heavy Class Sectional Steel Poles, Base Mounted	12.0 m, Steel Poles, Base Mounted Octagonal Type	10.5 m, Steel Poles, Base Mounted Octagonal Type	7.0 m, Sectional Steel Poles, Base Mounted	10.5 m, Sectional Steel Poles, Base Mounted	Frangible Bases [OPSD 2428.01]	Concrete Footings In Earth [MTOD 2200.010]	Concrete Footings In Earth [MTOD 2200.050]	400 W HPS Luminaire 120/240 V Ballast c/w 250 W HPS Lamp	400 W HPS Luminaire 120/240 V Ballast c/w 400 W HPS Lamp
Sub - Totals Brought Forward:							4	4	2	0	8	0	5	0	8	13	0	8	0
WOODBINE AVE.				P15	9+747	0.0							1			1			
WOODBINE AVE.				P16	9+757	12.8								1		1		1	
WOODBINE AVE.				P17	9+746	16.2							1			1			
PARKING LOT ENTRANCE				P18	10+023	0.0							1			1			
PARKING LOT ENTRANCE				P19	10+020	12.0				1							1	1	
WOODBINE AVE.				P20	9+706	15.1							1			1			
WOODBINE AVE.				P21	9+703	0.0							1			1			
WOODBINE AVE.				P22	9+699	14.9								1		1		1	
PARKING LOT ENTRANCE				P23	10+038	21.9	1	1				1				1			1
WOODBINE AVE.				P24	9+786	36.4						1				1			1
WOODBINE AVE.				P25	9+813	62.9						1				1			1
WOODBINE AVE.				P26	9+785	91.2						1				1			1
PARKING LOT ENTRANCE				P28	10+079	12.1	1	1				1				1			1
WOODBINE AVE.				P34	10+086	3.5*						1				1		1	
RAMP S-S				P35	10+025	3.5*						1				1		1	
Sub - Totals Carried Forward:							6	6	2	1	8	7	10	2	8	27	1	13	5
							(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)
TOTALS																			
UNIT							m	each	each	each	each	each	each	each	each	each	each	each	each
ITEM No.							163	164	166	167		169		168	170		171		173
Remarks: 1. Use MTOD 2200.010M for Footing.																Note: 1 When shown without *, offset is from centre or control line of roadway. When shown with *, offset is from edge of travelled pavement (EP).			
																CHKD. _____			
																APPR. _____			
																DATE _____			

Poles and Footings - MTO

90-03
PH-M-175
MINISTRY OF TRANSPORTATION - ONTARIO

Page 4 of 6				QUANTITIES - POLE ASSEMBLIES AND FOOTINGS												W.P. No. 2005-07-00		SHEET 175	
				Contract No.															
Location				Pole No. or Footing No.	Station	Offset (m) to CL of Pole or CL of Footing (Note 1)	2.4 m Al. Tapered Elliptical Bracket	#12 AWG Riser Wires 3 Wires/Pole											
Sub - Totals Brought Forward:						8	104												
WOODBINE AVE.				P15	9+747	0.0													
WOODBINE AVE.				P16	9+757	12.8	1	12											
WOODBINE AVE.				P17	9+746	16.2													
PARKING LOT ENTRANCE				P18	10+023	0.0													
PARKING LOT ENTRANCE				P19	10+020	12.0	1	12											
WOODBINE AVE.				P20	9+706	15.1													
WOODBINE AVE.				P21	9+703	0.0													
WOODBINE AVE.				P22	9+699	14.9	1	12											
PARKING LOT ENTRANCE				P23	10+038	21.9	1	12											
WOODBINE AVE.				P24	9+786	36.4	1	12											
WOODBINE AVE.				P25	9+813	62.9	1	12											
WOODBINE AVE.				P26	9+785	91.2	1	12											
PARKING LOT ENTRANCE				P28	10+079	12.1	1	12											
WOODBINE AVE.				P34	10+086	3.5*	1	12											
RAMP S-S				P35	10+025	3.5*	1	12											
Sub - Totals Carried Forward:						18	224												
TOTALS																			
UNIT						each	m												
ITEM No.																			
Remarks:														Note: 1 When shown without *, offset is from centre or control line of roadway. When shown with *, offset is from edge of travelled pavement (EP).				CHKD. _____ APPR. _____ DATE _____	

Poles and Footings - MTO

Note: 1 When shown without *, offset is from centre or control line of roadway.
When shown with *, offset is from edge of travelled pavement (EP).

CHKD. _____
APPR. _____
DATE _____

Poles and Footings - MTO

Page 6 of 6		QUANTITIES - POLE ASSEMBLIES AND FOOTINGS										W.P. No. 2005-07-00		SHEET 177				
Contract No.																		
Location	Pole No. or Footing No.	Station	Offset (m) to CL of Pole or CL of Footing (Note 1)	2.4 m Al. Tapered Elliptical Bracket	#12 AWG Riser Wires 3 Wires/Pole													
Sub - Totals Brought Forward:				18	224													
WOODBINE AVE.	P36	10+026	3.5*	1	12													
WOODBINE AVE.	P37	10+072	3.5*	1	12													
WOODBINE AVE.	P37A	10+128	3.5*	1	12													
RAMP N-S	P38	10+242	3.5*	1	12													
RAMP N-S	P39	10+186	3.5*	1	12													
Sub - Totals Carried Forward:				23	284													
TOTALS																		
UNIT				each	m													
ITEM No.																		
Remarks:												Note: 1 When shown without *, offset is from centre or control line of roadway. When shown with *, offset is from edge of travelled pavement (EP).					CHKD. _____ APPR. _____ DATE _____	

90-03

Page 1 of 3

QUANTITIES - TRAFFIC SIGNAL CONTROLLER, CONTROLLER COMPONENTS AND EXTERNAL DETECTION DEVICES

W.P. No. 2005-07-00

SHEET 179

Contract No.

Location	Controller Number or Detector Number	Size of Loop (m)	Number of Turns	Loop Inductance (uH)	Flasher Beacons and Downlights [MTOD 2532.01]	Riser Wires 12 AWG, 5/C	Flasher Mechanisms [MTOD 2532.01]	Riser Wires 12 AWG, 5/C	Traffic Signal Controllers [NEMA] 1	Loop Detectors Simple Loop in Pavement	Loop Detectors Duplex Loop in Pavement	Input File Connection Terminal	Prefabricated Loops [MTOD 2901.404] 2	Traffic Counting Station [Type 1] [TP/SS-001]	Pedestrian Pushbuttons	Emergency Vehicle Pre-emption Equipment		
Sub - Totals Brought Forward:																		
HIGHWAY 404	TCS1													1				
HWY 404 - TCS1	D1	2x2	3	79						3 1			3 1					
HWY 404 - TCS1	D2	2x2	4	131						3 1			3 1					
HWY 404 - TCS1	D3	2x2	3	79						3 1			3 1					
HIGHWAY 404	TCS2													1				
HWY 404 - TCS1	D4	2x2	4	131						3 1			3 1					
HWY 404 - TCS2	D5	2x2	4	131						3 1			3 1					
HWY 404 - TCS2	D6	2x2	3	79						3 1			3 1					
HWY 404 - TCS2	D7	2x2	4	131						3 1			3 1					
HWY 404 - TCS2	D8	2x2	3	79						3 1			3 1					
RAMP S-N/S	P1				1	7	1	7										
RAMP S-N/S	TCS3													1				
RAMP S-N/S - TCS3	D9	2x2	4	131						4 1								
RAMP S-N/S - TCS3	D10	2x2	3	79						4 1								
Ramp N-S	TCS4													1				
Sub - Totals Carried Forward:					1	7	1	7	0	10	0	0	8	4	0	0		
TOTALS					(P)		(P)		(P)	(P)	(P)		(P)	(P)	(P)	(P)		
UNIT					each	m	each	m	each	each	each	each	each	each	each	each		
ITEM No.					179		180		181		182		183		184		185	
Remarks7. Traffic Signal Controller to be supplied by York Region 3. TP1SS-004																	2. Provisional Item 4. TP1SS-009	CHKD. _____ APPR. _____ DATE _____

PH-M-176

MINISTRY OF TRANSPORTATION - ONTARIO

Traffic Signal Controllers, Loops, Counting Stations and Pushbuttons - MTO

Page 2 of 3		QUANTITIES - TRAFFIC SIGNAL CONTROLLER, CONTROLLER COMPONENTS AND EXTERNAL DETECTION DEVICES												W.P. No. 2005-07-00 Contract No.		SHEET 180			
Location		Controller Number or Detector Number	Size of Loop (m)	Number of Turns	Loop Inductance (uH)	Flasher Beacons and Downlights [MTOD 2532.01]	Riser Wires 12 AWG, 5/C	Flasher Mechanisms [MTOD 2532.01]	Riser Wires 12 AWG, 5/C	Traffic Signal Controllers [NEMA] ¹	Loop Detectors Simple Loop in Pavement	Loop Detectors Duplex Loop in Pavement	Input File Connection Terminal	Prefabricated Loops [MTOD 2901.404] ²	Traffic Counting Station [Type 1] [TP1SS-001]	Pedestrian Pushbuttons	Emergency Vehicle Pre-emption Equipment		
Sub - Totals Brought Forward:						1	7	1	7	0	10	0	0	8	4	0	0		
Ramp N-S - TCS4		D11	2x2	4	164						5	1							
Ramp N-S - TCS4		D12	2x2	4	131						4	1							
Ramp N-S - TCS4		D13	2x2	3	79						4	1							
WOODBINE AVE.		TCS1								1									
WOODBINE AVE.		P11														2			
WOODBINE AVE.		P12														1			
WOODBINE AVE.		P17														1			
WOODBINE AVE.		P19														1			
WOODBINE AVE.		P20														1			
WOODBINE AVE.		P21															1		
RAMP N-N/S		LD1	1.8x17.8	2-4-2	485							1							
RAMP N-N/S		LD2	1.8x17.8	2-4-2	485							1							
RAMP N-N/S		LD3	1.8x17.8	2-4-2	485							1							
WOODBINE AVE.		LD4	1.8x13.6	2-4-2	375							1							
WOODBINE AVE.		LD5	1.8x1.8	4	118						1								
Sub - Totals Carried Forward:						1	7	1	7	1	14	4	0	8	4	6	1		
						(P)		(P)		(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)		
TOTALS																			
UNIT						each	m	each	m	each	each	each	each	each	each	each	each		
ITEM No.						179		180		181		182		183		184		185	
Remarks: 1. Traffic Signal Controller to be supplied by York Region 4. TP1SS-009 2. Provisional Item 5. TP1SS-011																		CHKD. _____ APPR. _____ DATE _____	

Page 3 of 3		QUANTITIES - TRAFFIC SIGNAL CONTROLLER, CONTROLLER COMPONENTS AND EXTERNAL DETECTION DEVICES												W.P. No. 2005-07-00 Contract No.		SHEET 181	
Location	Controller Number or Detector Number	Size of Loop (m)	Number of Turns	Loop Inductance (uH)	Flasher Beacons and Downlights [MTOD 2532.01]	Riser Wires 12 AWG, 5/C	Flasher Mechanisms [MTOD 2532.01]	Riser Wires 12 AWG, 5/C	Traffic Signal Controllers [NEMA] 1	Loop Detectors Simple Loop in Pavement	Loop Detectors Duplex Loop in Pavement	Input File Connection Terminal	Prefabricated Loops [MTOD 2901.404] 2	Traffic Counting Station [Type 1] [TPISS-001]	Pedestrian Pushbuttons	Emergency Vehicle Pre-emption Equipment	
Sub - Totals Brought Forward:					1	7	1	7	1	14	4	0	8	4	6	1	
WOODBINE AVE.	LD6	1.8x1.8	4	118						1							
PARKING LOT ENTRANCE	LD7	1.8x17.8	2-4-2	485							1						
PARKING LOT ENTRANCE	LD8	1.8x17.8	2-4-2	485							1						
PARKING LOT ENTRANCE	LD9	1.8x1.8	4	118						1							
PARKING LOT ENTRANCE	LD10	1.8x1.8	4	118						1							
Sub - Totals Carried Forward:					1	7	1	7	1	17	6	0	8	4	6	1	
					(P) 1		(P) 1		(P) 1	(P) 17	(P) 6		(P) 8	(P) 4	(P) 6	(P) 1	
TOTALS					1		1		1	23			8	4	6	1	
UNIT					each	m	each	m	each	each	each	each	each	each	each	each	
ITEM No.					179		180		181		182		183	184	185	186	
Remarks1. Traffic Signal Controller to be supplied by York Region 2. Provisional Item																	CHKD. _____ APPR. _____ DATE _____

Traffic Signal Controllers, Loops, Counting Stations and Pushbuttons - MTO

Page 1 of 1			QUANTITIES - TRAFFIC SIGNAL EQUIPMENT												W.P. No. 2005-07-00		SHEET 182	
			Contract No.															
Location	Pole No.	Signal Head Facing Direction	3.6 m, Single Member Arms and Signal Hangers	5.5 m, Single Member Arms and Signal Hangers	6.7 m, Single Member Arms and Signal Hangers	0.6 m Double Arm Brackets	Highway Type Signal Heads ¹	Riser Wires #14 AWG, 5/C	Special Type Signal Heads, Type 10A	Special Type Signal Heads, Type 9A	Special Type Signal Heads, Type 6	Riser Wires #14 AWG, 7/C	Pedestrian Type Signal Heads ²	Riser Wires #14 AWG, 5/C				
Sub - Totals Brought Forward:																		
WOODBINE AVE.	P11	W/N				2							2	10				
WOODBINE AVE.	P12	W				2					1	6	1	5				
WOODBINE AVE.	P13	W	1								1	10						
WOODBINE AVE.	P15	S				1	1	6										
WOODBINE AVE.	P16	S		1			1	11										
WOODBINE AVE.	P17	S				1							1	5				
WOODBINE AVE.	P18	E				1			1			6						
WOODBINE AVE.	P19	N/E			1	1	1	12					1	5				
WOODBINE AVE.	P20	E				1							1	5				
WOODBINE AVE.	P21	N	1							1		10						
WOODBINE AVE.	P22	N		1			1	11										
Sub - Totals Carried Forward:			2	2	1	9	4	40	1	1	2	32	6	30				
			2	2	1				1	1	2							
			(P)	(P)	(P)	(P)	(P)		(P)	(P)	(P)		(P)					
TOTALS				5		9	4			4			6					
UNIT			each	each	each	each	each	m	each	each	each	m	each	m				
ITEM No.				174		175	176			177			178					
Remarks: 1. All 300mm Lenses															CHKD. _____			
															APPR. _____			
															DATE _____			
															Traffic Signal Equipment - MTO			

[illegible]

Note: 1 When shown without *, offset is from centre or control line of roadway.
When shown with *, offset is from edge of travelled pavement (EP).

CHKD. _____
APPR. _____
DATE _____

Handholes - GU

Page 1 of 2				QUANTITIES - RIGID DUCTS AND ASSOCIATED WIRING												W.P. No. 2005-07-00		SHEET 184	
				Contract No.															
Location	From - To OR Station	Distance (m)	UPC No.	Rigid Ducts, Concrete Encased	100 mm	Rigid Ducts, Direct Buried	50 mm	Cable Brick	Rigid Ducts, Steel Encased by Subsurface Installation	300 mm Steel Encasement	100 mm Ducts	#2 AWG, Low Voltage Cables, in Ducts	#8 AWG, Low Voltage Cables, in Ducts	#6 AWG, Insulated Ground Wires					
Sub - Totals Brought Forward:																			
WOODBINE AVE.	EH1-HH16/28	50				50	1 100	50				100		50					
WOODBINE AVE.	HH16/28-HH12/29	26	11						26	26	78	52		26					
PARKING LOT	HH12/29-SupD	19				19	1 38					38		19					
PARKING LOT	SupD-GOP1	20				20	20						40	20					
PARKING LOT	SupD-Bell1	10				10	1 20						20	10					
PARKING LOT	SupD-Shelter	11				11	22						154	22					
PARKING LOT	SupD-P29	6				6	6						18	6					
PARKING LOT	P29-P30	17				17	17						51	17					
PARKING LOT	P30-P31	8				8	8						24	8					
PARKING LOT	P31-P32	10				10	10						30	10					
PARKING LOT	P32-P33	10				10	10						30	10					
PARKING LOT	P33-Curb	3				3	3						9	3					
PARKING LOT	Curb-HH30	10	13	3 10	2 20		2 10						30	10					
PARKING LOT ENTRANCE	HH30-P27	17				17	17						51	17					
PARKING LOT ENTRANCE	P27-P28	23				23	23						69	23					
Sub - Totals Carried Forward:				10	20	204	304	50	26	26	78	190	526	251					
				(P)		(P)			(P)			(P)	(P)	(P)					
TOTALS																			
UNIT				m	m	m	m	m	m	m	m	m	m	m					
ITEM No.				140		144			145				146	147					
Remarks: 1. 1-50mm Rigid PVC Duct (Spare) for Bell 3. Unshrinkable Fill for Concrete Encasement															2. 1-50mm Rigid PVC Duct inside 100mm Concrete Encased Duct		CHKD. _____ APPR. _____ DATE _____		

Rigid Ducts and Associated Wiring - GO

Page 2 of 2		QUANTITIES - RIGID DUCTS AND ASSOCIATED WIRING												W.P. No. 2005-07-00		SHEET 185	
												Contract No.					
Location	From - To OR Station	Distance (m)	UPC No.	Rigid Ducts, Concrete Encased	100 mm	Rigid Ducts, Direct Buried	50 mm	Cable Brick	Rigid Ducts, Steel Encased by Subsurface Installation	300 mm Steel Encasement	100 mm Ducts	#2 AWG, Low Voltage Cables, in Ducts	#8 AWG, Low Voltage Cables, in Ducts	#6 AWG, Insulated Ground Wires			
Sub - Totals Brought Forward:				10	20	204	304	50	26	26	78	190	526	251			
PARKING LOT ENTRANCE	P28-P28A	22				22	22						66	22			
PARKING LOT ENTRANCE	P28A-P28B	22				22	22						66	22			

Page 1 of 1				QUANTITIES - POLE ASSEMBLIES AND FOOTINGS											W.P. No. 2005-07-00		SHEET 186		
				Contract No.															
Location				Pole No. or Footings No.	Station	Offset (m) to CL of Pole or CL of Footing (Note 1)	6.0 m, Steel Poles, Base Mounted Square Type	10.5 m, Steel Poles, Base Mounted Octagonal Type	Concrete Footings In Earth [EES-203]	Concrete Footings In Earth [MTOD 2200.010]	#6 AWG, Bare Ground Wires	Ground Electrodes [Rods]	150 W HPS Luminaire 120 V Ballast c/w 150 W HPS Lamp	400 W HPS Luminaire 120/240 V Ballast c/w 250 W HPS Lamp	Refer to Note m Al. Tapered Elliptical Bracket	#12 AWG Riser Wires 3 Wires/Pole			
Sub - Totals Brought Forward:																			
PARKING LOT				P29	10+041	34.6	1		1				1		1	5			
PARKING LOT				P30	10+055	36.4	1		1				1		1	5			
PARKING LOT				P31	10+063	30.4	1		1				1		1	5			
PARKING LOT				P32	10+107	13.8	1		1				1		1	5			
PARKING LOT				P33	10+107	3.8	1		1		1	1	1		1	5			
PARKING LOT ENTRANCE				P27	10+091	8.75		1		1					1	2	12		
PARKING LOT ENTRANCE				P28A	10+063	8.25		1		1					1	2	12		
PARKING LOT ENTRANCE				P28B	10+041	8.25		1		1	1	1		1	2	12			
Sub - Totals Carried Forward:						5	3	5	3	2	2	5	3	8	61				
						5	3	5	3			5	3						
						(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)						
TOTALS							8		8	2	2		8						
UNIT						each	each	each	each	m	each	each	each	each	each	m			
ITEM No.							150		151	147	148		153						
Remarks: 1. GO Standard EES-201 3. Brought Forward to Power Supply Equipment - GO						2. 2.4m Al. Tapered Elliptical Bracket						Note: 1 When shown without *, offset is from centre or control line of roadway. When shown with *, offset is from edge of travelled pavement (EP).						CHKD. _____ APPR. _____ DATE _____	

Note: 1 When shown without *, offset is from centre or control line of roadway.
When shown with *, offset is from edge of travelled pavement (EP).

CHKD. _____
APPR. _____
DATE _____

90-03
PH-M-168
MINISTRY OF TRANSPORTATION - ONTARIO

Page 1 of 2		QUANTITIES - ELECTRICAL MAINTENANCE HOLES AND HANDHOLES										W.P. No. 2005-07-00 Contract No.		SHEET 188					
Location	Maintenance Hole No. or Handhole No.	Station	Offset (m) to CL of Structure (Note 1)	Depth (m)	Elevations				Electrical Handholes [450 mm], [E-1.03]	Electrical Handholes [675 mm], [E-1.04]	#6 AWG, Bare Ground Wires	Ground Electrodes [Rods]							
					Top of Cover		Drain Invert												
Sub - Totals Brought Forward:																			
Ravenshoe Road	HW01	9+630							1										
Ravenshoe Road	HW02	9+630							1										
Ravenshoe Road	HW03	9+630	2.5*						1										
Woodbine Avenue	HW04	10+577	1.5						1		1	1							
Woodbine Avenue	HW05	10+629	2.5*						1										
Woodbine Avenue	HW06	10+682	2.5*						1										
Woodbine Avenue	HW07	10+577	3.25						1										
Woodbine Avenue	HW08	10+577	2.5*						1		1	1							
Ravenshoe Road	HW09	9+687	2.5*						1										
Ravenshoe Road	HW10	9+691	2.5*						1										
Ravenshoe Road	HW11	9+687	1.5						1										
Ravenshoe Road	HW12	9+691	2.5*						1										
Ravenshoe Road	HW13	9+687	2.5*						1										
Woodbine Avenue	HW14	10+522	2.5*						1		1	1							
Woodbine Avenue	HW15	10+521	2.5*						1										
Sub - Totals Carried Forward:									15	0	3	3							
									(P)	(P)	(P)	(P)							
TOTALS																			
UNIT									each	each	m	each							
ITEM No.										188	200	202							
Remarks:												Note: 1 When shown without *, offset is from centre or control line of roadway. When shown with *, offset is from edge of travelled pavement (EP).				CHKD. _____ APPR. _____ DATE _____			

Handholes - York Region

[illegible]

Page 1 of 3				QUANTITIES - RIGID DUCTS AND ASSOCIATED WIRING												W.P. No. 2005-07-00		SHEET 190	
				Contract No.															
Location	From - To OR Station	Distance (m)	UPC No.	Rigid Ducts, Direct Buried	50 mm	75 mm	100 mm	Cable Brick	Rigid Ducts by Subsurface Installation	100 mm Ducts	#2 AWG, Low Voltage Cables, in Ducts	#6 AWG, Low Voltage Cables, in Ducts	#14 AWG, 2-Cond., Extra Low Voltage Cables, in Ducts	#18 AWG, 4-Cond., Extra Low Voltage Cables, in Ducts	#14 AWG, 12-Cond Traffic Signal Cables, in Ducts	#6 AWG, Insulated Ground Wires			
Sub - Totals Brought Forward:																			
Ravenshoe Road	P62 - P40	66		66	198						264	198				198			
Ravenshoe Road	P40 - TC2	6		6	6							12				6			
Ravenshoe Road	TC2 - HW20	10		10		10	10						140	20	40				
Ravenshoe Road	HW20 - HW01	8		8			8					24	56	8	16	8			
Ravenshoe Road	HW01 - P40	5		5	5							45				5			
Ravenshoe Road	HW01 - HW02	18						18	18			54	90	18	36	18			
Ravenshoe Road	HW02 - P42	2		2		2									4	2			
Ravenshoe Road	HW02 - HW03	15						15	15			45	45	15	30	15			
Ravenshoe Road	HW03 - P43	2		2		2						12			4	2			
Ravenshoe Road	HW03 - HW04	18		18			18					54	54	18	36	18			
Woodbine Avenue	HW04 - P44	9		9		9								18	18	9			
Woodbine Avenue	HW04 - P45	6		6	6							54				6			
Woodbine Avenue	HW04 - P46	2		2	4	2						6	4		2	4			
Woodbine Avenue	P46 - P47	30		30	60							90	60			30			
Woodbine Avenue	P47 - HW05	20		20	40							60	40			20			
Sub - Totals Carried Forward:				184	319	25	36	0	33	33	264	654	489	97	186	341			
				(P)					(P)		(P)	(P)	(P)	(P)	(P)	(P)			
TOTALS																			
UNIT				m	m	m	m	m	m	m	m	m	m	m	m	m			
ITEM No.				189					191			192		194	195	200			
Remarks:														CHKD. _____ APPR. _____ DATE _____					

90-03
PH-M-170
MINISTRY OF TRANSPORTATION - ONTARIO

Page 2 of 3		QUANTITIES - RIGID DUCTS AND ASSOCIATED WIRING													W.P. No. 2005-07-00		SHEET 191	
		Contract No.																
Location	From - To OR Station	Distance (m)	UPC No.	Rigid Ducts, Direct Buried	50 mm	75 mm	100 mm	Cable Brick	Rigid Ducts by Subsurface Installation	100 mm Ducts	#2 AWG, Low Voltage Cables, in Ducts	#6 AWG, Low Voltage Cables, in Ducts	#14 AWG, 2-Cond., Extra Low Voltage Cables, in Ducts	#18 AWG, 4-Cond., Extra Low Voltage Cables, in Ducts	#14 AWG, 12-Cond Traffic Signal Cables, in Ducts	#6 AWG, Insulated Ground Wires		
Sub - Totals Brought Forward:				184	319	25	36	0	33	33	264	654	489	97	186	341		
Woodbine Avenue	HW05 - P61	39		39	78							117	78			39		
Woodbine Avenue	P61 - HW06	14			14	14							28					
Woodbine Avenue	HW04 - HW07	22							22	22		66	22	22	44	22		
Woodbine Avenue	HW07 - P48	2		2		2									4	2		
Woodbine Avenue	HW07 - HW08	15							15	15		45		15	30	15		
Woodbine Avenue	HW08 - P49	9		9		9		9				54			18	9		
Woodbine Avenue	HW08 - P50	6		6		6		6						6	12	6		
Woodbine Avenue	HW08 - HW09	12		12			12					36			24	12		
Ravenshoe Road	HW09 - P63	46		46	46							138				46		
Ravenshoe Road	HW09 - HW11	16							16	16			32		32	16		
Ravenshoe Road	HW10 - HW12	28							28	28		84				28		
Ravenshoe Road	HW11 - P51	2		2		2									4	2		
Ravenshoe Road	HW11 - HW13	15							15	15			60		30	15		
Ravenshoe Road	HW13 - P52	2		2		2						6			4	2		
Ravenshoe Road	HW12 - HW15	22		22			22									22		
Ravenshoe Road	HW13 - HW14	18		18			18					54	72		36	18		
Sub - Totals Carried Forward:				342	457	60	88	15	129	129	264	1254	781	140	424	595		
				(P)					(P)		(P)	(P)	(P)	(P)	(P)	(P)		
TOTALS																		
UNIT				m	m	m	m	m	m	m	m	m	m	m	m	m		
ITEM No.				189					191			192		194		195	200	
Remarks:														CHKD. _____				
														APPR. _____				
														DATE _____				

Rigid Ducts and Associated Wiring - York Region

Page 3 of 3				QUANTITIES - RIGID DUCTS AND ASSOCIATED WIRING													W.P. No. 2005-07-00		SHEET 192	
				Contract No.																
Location	From - To OR Station	Distance (m)	UPC No.	Rigid Ducts, Direct Buried	50 mm	75 mm	100 mm	Cable Brick	Rigid Ducts by Subsurface Installation	100 mm Ducts	#2 AWG, Low Voltage Cables, in Ducts	#6 AWG, Low Voltage Cables, in Ducts	#14 AWG, 2-Cond., Extra Low Voltage Cables, in Ducts	#18 AWG, 4-Cond., Extra Low Voltage Cables, in Ducts	#14 AWG, 12-Cond Traffic Signal Cables, in Ducts	#6 AWG, Insulated Ground Wires				
Sub - Totals Brought Forward:				342	457	60	88	15	129	129	264	1254	781	140	424	595				
Woodbine Avenue	HW14 - P53	11		11		11								11	22	11				
Woodbine Avenue	HW14 - P54	2		2		2	2					12	4		4	2				
Woodbine Avenue	P54 - P57	47		47	94							141	94			47				
Woodbine Avenue	P57 - HW16	2		2	4							6	4			2				
Woodbine Avenue	HW16 - P58	49		49	98							147	98			49				
Woodbine Avenue	P58 - HW17	6		6	6								12							
Woodbine Avenue	HW14 - HW18	21							21	21		63	126	21	42	21				
Woodbine Avenue	HW15 - HW19	39							39	39		117				39				
Woodbine Avenue	HW18 - P55	2		2		2									4	2				
Woodbine Avenue	HW18 - HW20	19							19	19		57	133	19	38	19				
Woodbine Avenue	HW20 - P56	9		9		9						54			18	9				
Woodbine Avenue	HW20 - P41	4		4		4								8	8	4				
Sub - Totals Carried Forward:				474	659	88	90	15	208	208	264	1851	1252	199	560	800				
				(P)					(P)	264		(P)	1851	(P)	1252	(P)	199			
TOTALS				474					208			2,115		1,451	560	1,800				
UNIT				m	m	m	m	m	m	m	m	m	m	m	m	m				
ITEM No.				189					191			192		194	195	200				
Remarks: 1. Brought Forward to Power Supply Equipment - York Region														CHKD. _____ APPR. _____ DATE _____						

Page 1 of 2				QUANTITIES - POLE ASSEMBLIES AND FOOTINGS											W.P. No. 2005-07-00		SHEET 193	
				Contract No.														
Location	Pole No. or Footing No.	Station	Offset (m) to CL of Pole or CL of Footing (Note 1)	3.8 m, Sectional Steel Poles, Base Mounted	7.0 m, Sectional Steel Poles, Base Mounted	8.71 m, Sectional Steel Poles, Base Mounted	Concrete Footings In Earth [E-2.08]	Concrete Footings In Earth [E-2.09]	Concrete Footings In Earth [E-2.10]	250 W HPS Luminaire 120 V Ballast c/w 250 W HPS Lamp	3.7 m Al. Tapered Elliptical Bracket	#12 AWG Riser Wires 3 Wires/Pole	#6 AWG, Bare Ground Wires	Ground Electrodes [Rods]				
Sub - Totals Brought Forward:																		
Woodbine Avenue	P40	EXIST. HP								1	1	12						
Ravenshoe Road	P41	10+525	3.25*	1			1											
Ravenshoe Road	P42	9+631	1.5		1			1										
Ravenshoe Road	P43	9+628	2.5*			1			1	1	1	11						
Woodbine Avenue	P44	10+568	3.25*	1			1											
Woodbine Avenue	P45	EXIST. HP									1	12						
Woodbine Avenue	P46	10+579	2.5*		1			1										
Woodbine Avenue	P47	EXIST. HP									1	12						
Woodbine Avenue	P48	10+576	3.25*		1			1										
Woodbine Avenue	P49	10+586	2.5*			1			1	1	1	11						
Woodbine Avenue	P50	10+572	3.25*	1			1											
Ravenshoe Road	P51	9+686	1.5		1			1										
Ravenshoe Road	P52	9+689	2.5*			1			1	1	1	11						
Ravenshoe Road	P53	9+680	3.25*	1			1											
Woodbine Avenue	P54	10+520	2.5*			1			1	1	1	11						
Sub - Totals Carried Forward:				4	4	4	4	3	5	5	7	80	0	0				
				(P)	(P)	(P)	(P)	(P)	(P)	(P)			(P)	(P)				
TOTALS																		
UNIT				each	each	each	each	each	each	each	each	m	m	each				
ITEM No.					207			209		211			200	202				
Remarks:														Note: 1 When shown without *, offset is from centre or control line of roadway. When shown with *, offset is from edge of travelled pavement (EP).			CHKD. _____	
																	APPR. _____	
																	DATE _____	

90-03

Page 2 of 2

QUANTITIES - POLE ASSEMBLIES AND FOOTINGS

W.P. No. 2005-07-00

SHEET 194

Contract No.

Location	Pole No. or Footing No.	Station	Offset (m) to CL of Pole or CL of Footing (Note 1)	3.8 m, Sectional Steel Poles, Base Mounted	7.0 m, Sectional Steel Poles, Base Mounted	8.71 m, Sectional Steel Poles, Base Mounted	Concrete Footings In Earth [E-2.08]	Concrete Footings In Earth [E-2.09]	Concrete Footings In Earth [E-2.10]	250 W HPS Luminaire 120 V Ballast c/w 250 W HPS Lamp	3.7 m Al. Tapered Elliptical Bracket	#12 AWG Riser Wires 3 Wires/Pole	#6 AWG, Bare Ground Wires	Ground Electrodes [Rods]				
Sub - Totals Brought Forward:				4	4	4	4	3	5	5	7	80	0	0				
Woodbine Avenue	P55	10+523	0.0		1			1										
Woodbine Avenue	P56	10+513	2.5*			1			1	1	1	11						
Woodbine Avenue	P57	10+473	2.5*			1			1	1	1	11						
Woodbine Avenue	P58	10+423	2.5*			1			1	1	1	11	1	1				
Woodbine Avenue	P61	EXIST. HP								1	1	12						
Woodbine Avenue	P62	EXIST. HP								1	1	12						
Ravenshoe Road	P63	9+733	2.5*			1			1	1	1	11	1	1				
Sub - Totals Carried Forward:				4	5	8	4	4	9	11	13	148	2	2				
				4	5	8	4	4	9	11								
				(P)	(P)	(P)	(P)	(P)	(P)	(P)			(P)	(P)				
TOTALS					17			17		11			12	12				
UNIT				each	each	each	each	each	each	each	each	m	m	each				
ITEM No.					207			209		211			200	202				
Remarks1. Brought Forward to Power Supply Equipment - York Region														Note: 1 When shown without *, offset is from centre or control line of roadway. When shown with *, offset is from edge of travelled pavement (EP).			CHKD. _____ APPR. _____ DATE _____	

PH-M-175

MINISTRY OF TRANSPORTATION - ONTARIO

Poles and Footings - York Region

[illegible]

Note: 1 When shown without *, offset is from centre or control line of roadway.
When shown with *, offset is from edge of travelled pavement (EP).

CHKD. _____
APPR. _____
DATE _____

Page 1 of 2		QUANTITIES - TRAFFIC SIGNAL CONTROLLER, CONTROLLER COMPONENTS AND EXTERNAL DETECTION DEVICES										W.P. No. 2005-07-00 Contract No.		SHEET 196						
Location		Controller Number or Detector Number	Size of Loop (m)	Number of Turns	Loop Inductance (uH)	Traffic Signal Controllers [NEMA] ¹	Loop Detectors Simple Loop in Pavement	Loop Detectors Diamond Loop in Pavement	Input File Connection Terminal	Traffic Counting Station [York Region] [Detail]	Pedestrian Pushbuttons									
Sub - Totals Brought Forward:																				
Woodbine Avenue		TC2				2 1														
Ravenshoe Road		LD11	2.2x15.0	4	564		1													
Ravenshoe Road		LD12	1.7x15.0	4	548		1													
Ravenshoe Road		LD13	1.5x15.0	4	541		1													
Ravenshoe Road		LD14	1.5x10.0	4	377		1													
Woodbine Avenue		LD15	1.5x10.0	4	377		1													
Woodbine Avenue		LD16	1.6x1.6	4	105			1												
Woodbine Avenue		LD17	1.6x1.6	4	105			1												
Ravenshoe Road		LD18	1.7x15.0	4	548		1													
Ravenshoe Road		LD19	1.7x15.0	4	548		1													
Ravenshoe Road		LD20	1.5x15.0	4	541		1													
Ravenshoe Road		LD21	1.5x10.0	4	377		1													
Woodbine Avenue		LD22	1.6x1.6	4	105			1												
Woodbine Avenue		LD23	1.6x1.6	4	105			1												
Woodbine Avenue		LD24	1.6x10.0	4	377		1													
Sub - Totals Carried Forward:						1	10	4	0	0	0									
						(P)	(P)	(P)		(P)	(P)									
TOTALS																				
UNIT						each	each	each	each	each	each									
ITEM No.						220		221		222	223									
Remarks: 1. Traffic Signal Controller to be supplied by Region of York														2. Install for use with temporary traffic signal system.					CHKD. _____ APPR. _____ DATE _____	

Traffic Signal Controllers, Loops, Pushbuttons and Counting Stations - York Region

QUANTITIES - TRAFFIC SIGNAL CONTROLLER, CONTROLLER COMPONENTS
AND EXTERNAL DETECTION DEVICES

W.P. No. 2005-07-00

Contract No.

SHEET
197

PH-M-176

MINISTRY OF TRANSPORTATION - ONTARIO

Location	Controller Number or Detector Number	Size of Loop (m)	Number of Turns	Loop Inductance (uH)	Traffic Signal Controllers [NEMA] ¹	Loop Detectors Simple Loop in Pavement	Loop Detectors Diamond Loop in Pavement	Input File Connection Terminal	Traffic Counting Station [York Region] [Detail]	Pedestrian Pushbuttons							
Sub - Totals Brought Forward:					1	10	4	0	0	0							
Woodbine Avenue	TCS5								1								
Woodbine Avenue	D14						1										
Woodbine Avenue	D15						1										
Woodbine Avenue	D16						1										
Woodbine Avenue	D17						1										
Woodbine Avenue	D18						1										
Woodbine Avenue	D19						1										
Woodbine Avenue	D20						1										
Woodbine Avenue	D21						1										
Woodbine Avenue	D22						1										
Woodbine Avenue	D23						1										
Woodbine Avenue	P41									1							
Woodbine Avenue	P44									1							
Woodbine Avenue	P50									1							
Woodbine Avenue	P53									1							
Sub - Totals Carried Forward:					1	10	14	0	1	4							
						10	14										
					(P)	(P)	(P)		(P)	(P)							
TOTALS					1		24		1	4							
UNIT					each	each	each	each	each	each							
ITEM No.					220		221		222	223							

Remarks¹. Traffic Signal Controller to be supplied by Region of York

CHKD. _____
APPR. _____
DATE _____

Traffic Signal Controllers, Loops, Pushbuttons and Counting Stations - York Region

QUANTITIES - TRAFFIC SIGNAL EQUIPMENT

W.P. No. 2005-07-00

Contract No.

PH-M-177

MINISTRY OF TRANSPORTATION - ONTARIO

Location	Pole No.	Signal Head Facing Direction	3.6 m, Single Member Arms and Signal Hangers	4.6 m, Single Member Arms and Signal Hangers	5.5 m, Single Member Arms and Signal Hangers	0.6 m Double Arm Brackets	Highway Type Signal Heads	Riser Wires #14 AWG, 5/C	Special Type Signal Heads, Type 9	Riser Wires #14 AWG, 7/C	Pedestrian Type Signal Heads	Riser Wires #18 AWG, 4/C			
Sub - Totals Brought Forward:															
Woodbine Avenue	P41	N/E				2					2	10			
Ravenshoe Road	P42	E				1			1	6					
Ravenshoe Road	P43	E			1		1	12							
Woodbine Avenue	P44	S/E				2					2	10			
Woodbine Avenue	P46	S		1					1	12					
Woodbine Avenue	P48	S				1			1	6					
Woodbine Avenue	P49	S			1		1	12							
Woodbine Avenue	P50	S/W				2					2	10			
Ravenshoe Road	P51	W				1	1	6							
Ravenshoe Road	P52	W			1		1	12							
Woodbine Avenue	P53	N/W				2					2	10			
Woodbine Avenue	P54	N	1						1	10					
Woodbine Avenue	P55	N				1			1	6					
Woodbine Avenue	P56	N			1		1	12							
Sub - Totals Carried Forward:			1	1	4	12	5	54	5	40	8	40			
			1	1	4				5						
			(P)	(P)	(P)	(P)	(P)		(P)		(P)				
TOTALS				6		12	5		5		8				
UNIT			each	each	each	each	each	m	each	m	each	m			
ITEM No.				213		214	215		217		219				

Remarks:

CHKD. _____
APPR. _____
DATE _____

90-03

Page 1 of 3

QUANTITIES - REMOVAL OF ELECTRICAL EQUIPMENT

W.P. No. 2005-07-00

SHEET 199

Contract No.

Location	Removal Number	Station	Removal of Electrical Equipment [Weather Puck]	Removal of Electrical Equipment [Cable and Duct]	Removal of Electrical Equipment [Handwell]	Removal of Electrical Equipment [Traffic Signal Controller]	Removal of Electrical Equipment [Base Mounted Pole]	Removal of Electrical Equipment [Mast Arm and Hanger]	Removal of Electrical Equipment [Traffic Signal Head]	Removal of Electrical Equipment [Road/Street Name Sign] 2	Removal of Electrical Equipment [Luminaire and Bracket]	Removal of Electrical Equipment [Abandon Loop Detector]	Removal of Electrical Equipment [Concrete Pole Foundation]		
Sub - Totals Brought Forward:															
Woodbine Avenue	R1	10+478	100 %												
Woodbine Avenue		R1 - R2		100 %											
Ravenshoe Road		R2 - R3		100 %											
Ravenshoe Road	R3	9+582	100 %												
Ravenshoe Road		R2 - R6		100 %											
Ravenshoe Road	R4	9+628				1 100 %									
Ravenshoe Road	R5	9+628					100 %				100 %		100 %		
Ravenshoe Road	R6	9+629			100 %										
Ravenshoe Road		R6 - R7		100 %											
Ravenshoe Road	R7	9+641			100 %										
Ravenshoe Road		R7 - R8		100 %											
Ravenshoe Road	R8	9+642					100 %	100 %	100 %	100 %	100 %		100 %		
Ravenshoe Road	R9	9+624										100 %			
Woodbine Avenue		R7 - R11		100 %											
Woodbine Avenue	R11	10+569			100 %										
Sub - Totals Carried Forward:			100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %		
UNIT			LUMP SUM												
ITEM No.			204												
Remarks: 1. Remove and Salvage Bell Mobility 1x equipment. Return Controller to the Region. 2. Salvage for use on Temporary Signal System.															
CHKD. _____ APPR. _____ DATE _____															

PH-M-174

MINISTRY OF TRANSPORTATION - ONTARIO

Electrical Removals - York Region

90-03
PH-M-174
MINISTRY OF TRANSPORTATION - ONTARIO

Page 2 of 3			QUANTITIES - REMOVAL OF ELECTRICAL EQUIPMENT												W.P. No. 2005-07-00		SHEET 200	
			Contract No.															
Location	Removal Number	Station	Removal of Electrical Equipment [Weather Puck]	Removal of Electrical Equipment [Cable and Duct]	Removal of Electrical Equipment [Handwell]	Removal of Electrical Equipment [Traffic Signal Controller]	Removal of Electrical Equipment [Base Mounted Pole]	Removal of Electrical Equipment [Mast Arm and Hanger]	Removal of Electrical Equipment [Traffic Signal Head]	Removal of Electrical Equipment [Road/Street Name Sign]	Removal of Electrical Equipment [Luminaire and Bracket]	Removal of Electrical Equipment [Abandon Loop Detector]	Removal of Electrical Equipment [Concrete Pole Foundation]					
Sub - Totals Brought Forward:			100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %					
Woodbine Avenue		R11 - R10		100 %									100 %					
Ravenshoe Road	R10	9+638					100 %	100 %	100 %	100 %			100 %					
Woodbine Avenue		R11 - R12		100 %														
Woodbine Avenue	R12	10+570					100 %	100 %	100 %		100 %		100 %					
Woodbine Avenue		R11 - R13		100 %														
Woodbine Avenue	R13	10+612					100 %				100 %		100 %					
Woodbine Avenue		R13 - R14		100 %														
Woodbine Avenue	R14	10+654					100 %				100 %		100 %					
Woodbine Avenue		R11 - R16		100 %														
Woodbine Avenue		R16 - R15		100 %														
Woodbine Avenue	R15	10+580					100 %	100 %	100 %	100 %	100 %		100 %					
Woodbine Avenue	R16	10+580			100 %													
Woodbine Avenue		R16 - R18		100 %														
Ravenshoe Road	R17	9+682					100 %	100 %	100 %		100 %		100 %					
Ravenshoe Road		R17 - R18		100 %														
Ravenshoe Road	R18	9+682			100 %													
Sub - Totals Carried Forward:			100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %					
UNIT			LUMP SUM															
ITEM No.			204															
Remarks2. Salvage for use on Temporary Signal System.																		
														CHKD. _____				
														APPR. _____				
														DATE _____				

Electrical Removals - York Region

Page 3 of 3			QUANTITIES - REMOVAL OF ELECTRICAL EQUIPMENT												W.P. No. 2005-07-00		SHEET 201	
			Contract No.															
Location	Removal Number	Station	Removal of Electrical Equipment [Weather Puck]	Removal of Electrical Equipment [Cable and Duct]	Removal of Electrical Equipment [Handwell]	Removal of Electrical Equipment [Traffic Signal Controller]	Removal of Electrical Equipment [Base Mounted Pole]	Removal of Electrical Equipment [Mast Arm and Hanger]	Removal of Electrical Equipment [Traffic Signal Head]	Removal of Electrical Equipment [Road/Street Name Sign] 2	Removal of Electrical Equipment [Luminaire and Bracket]	Removal of Electrical Equipment [Abandon Loop Detector]	Removal of Electrical Equipment [Concrete Pole Foundation]					
Sub - Totals Brought Forward:			100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %					
Ravenshoe Road		R18 - R19		100 %														
Ravenshoe Road	R19	9+699			100 %													
Ravenshoe Road	R20	9+699										100 %						
Ravenshoe Road		R19 - R21		100 %														
Ravenshoe Road	R21	9+731					100 %				100 %		100 %					
Ravenshoe Road		R18 - R23		100 %														
Ravenshoe Road	R22	9+686					100 %	100 %	100 %	100 %	100 %		100 %					
Ravenshoe Road		R22 - R23																
Ravenshoe Road	R23	9+685			100 %													
Ravenshoe Road		R23 - R24		100 %														
Ravenshoe Road	R24	10+532			100 %													
Ravenshoe Road		R24 - R25																
Ravenshoe Road	R25	10+532		100 %			100 %	100 %	100 %		100 %		100 %					
Ravenshoe Road		R24 - R26		100 %														
Ravenshoe Road	R26	10+478					100 %				100 %		100 %					
Sub - Totals Carried Forward:			100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %					
			100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %					
UNIT			LUMP SUM															
ITEM No.			204															
Remarks2. Salvage for use on Temporary Signal System.															CHKD. _____			
															APPR. _____			
															DATE _____			

Temporary Traffic Signals - York Region

90-03

Page 1 of 1

QUANTITIES - TEMPORARY INSTALLATION

W.P. No. 2005-07-00

SHEET 204

Contract No.

Location	Structure/Equipment No.	Offset (m) to CL of Structure/Equip't (Note 1)	Signal Head Facing Direction	From - To OR Station	Distance (m)	12-Cond. Traffic Signal Cables Aerial on Messenger Cable [Temporary]	250W HPS Luminaire, 120 V Ballast c/w 250 W HPS Lamp [Temporary]	3.7 m Al. Tapered Elliptical Bracket	#12 AWG Riser Wires 3 Wires/Pole												
Sub - Totals Brought Forward:																					
			S	TP1 - TP2	39	24															
			W	TP2 - TP3	42	28															
			N	TP4 - TP5	45	45															
			E	TP5 - TP1	48	48															
	TP1	19.9		10+572			1	1	5												
	TP2	19.3		10+575			1	1	5												
	TP3	28.3		10+530			1	1	5												
	TP4	24.4		10+521			1	1	5												
	TP5	20.7		10+521			1	1	5												
Sub - Totals Carried Forward:						145	5	5	25												
						(P)	(P)														
TOTALS						145	5														
UNIT						m	each	each	m												
ITEM No.						197	212														
Remarks:										Note: 1 When shown without *, offset is from centre or control line of roadway. When shown with *, offset is from edge of travelled pavement (EP).										CHKD. _____	
																				APPR. _____	
																				DATE _____	

MINISTRY OF TRANSPORTATION - ONTARIO

PH-M-180

Temporary Electrical Work 2 - York Region

90-07

PH-D-505

MINISTRY OF TRANSPORTATION - ONTARIO

QUANTITIES - STRUCTURE																Site No: 37-1538/1	W.P. No. 2005-07-00	SHEET 205
																Drawing No: 15	Contract No.	
Boag Road Overpass at Hwy 404 NBL - Site No. 37-1538/1	Earth Excavation for Structure	Unwatering Structure Excavation	Mass Concrete	Concrete in Footings	Concrete in Substructure [(30 mpa)]	Concrete in Substructure and Retaining Walls [(30 mpa)]	Concrete in Deck	Concrete in Barrier Walls	Concrete in Approach Slabs	Reinforcing Steel Bar	Stainless Steel Reinforcing Bar	Embedded Work in Structure (Utility)	Bridge Deck Waterproofing	Membrane Reinforcement	Access to Work Area, Work Platform and Scaffolding	References		
LUMP SUM					248	85	180	27.6	39	33.1	49.3	172	215					
Boag Road Overpass at Hwy 404 NBL	1520	100 %	37	201.80	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	28.00	100 %			
		</																

SHEET
206

Contract No.[illegible]

CHKD. _____
APPR. _____
DATE _____

[illegible]

W.P. No. 2005-07-00
Contract No.

SHEET
208

[illegible]