



SHEET NUM.											PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
P.005	P.006	P.007	P.008	P.017	P.018	P.019	P.020	P.021	P.035		01/IMS/10	EXT	TOTAL				
															ROADWAY		
				18	410						LS	201	11000	LS	CLEARING AND GRUBBING	P.005	
					472						428	202	23000	428	SY	PAVEMENT REMOVED	
				55							472	202	30000	472	SF	WALK REMOVED	
				26							55	202	30700	55	FT	CONCRETE BARRIER REMOVED	
											26	202	32000	26	FT	CURB REMOVED	
				231							231	202	32500	231	FT	CURB AND GUTTER REMOVED	
						26					26	202	35100	26	FT	PIPE REMOVED, 24" AND UNDER	
				1,313							1,313	202	38000	1,313	FT	GUARDRAIL REMOVED	
				2							2	202	42010	2	EACH	ANCHOR ASSEMBLY REMOVED, TYPE E	
				4							4	202	42040	4	EACH	ANCHOR ASSEMBLY REMOVED, TYPE T	
				5							5	202	47000	5	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED	
				4							4	202	47800	4	EACH	IMPACT ATTENUATOR REMOVED	
				4							4	202	53100	4	EACH	MAILBOX REMOVED	
								1,682	469		2,151	203	10000	2,151	CY	EXCAVATION	
								561	592		1,153	203	20000	1,153	CY	EMBANKMENT	
					1,545						1,545	204	10000	1,545	SY	SUBGRADE COMPACTION	
				625							625	606	15050	625	FT	GUARDRAIL, TYPE MGS	
				150							150	606	15550	150	FT	GUARDRAIL, BARRIER DESIGN, TYPE MGS	
				3							2	606	26150	3	EACH	ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)	
				7							6	606	26550	7	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
				3							3	606	35002	3	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	
				1							1	606	35102	1	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2	
				2							2	606	60012	2	EACH	IMPACT ATTENUATOR, TYPE 1 (BIDIRECTIONAL)	
					1,375						1,375	608	12000	1,375	SF	5" CONCRETE WALK	
								1,880			1,880	622	41100	1,880	FT	PORTABLE BARRIER, UNANCHORED	
				4							4	SPECIAL	69050100	4	EACH	MAILBOX SUPPORT SYSTEM, SINGLE	P.06
	LS	LS									LS	SPECIAL	69098400	LS		ITEM SPECIAL - CONSULTANT FOR CONCRETE QUALITY CONTROL INCLUDING TESTING AND INSPECTION	P.07
											LS	SPECIAL	69098400	LS		MISC.:WORK INVOLVING ASBESTOS CONTAINING MATERIALS	P.06
															EROSION CONTROL		
50						4					54	601	21050	54	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	
						62					62	601	23000	62	SY	ARTICULATING CONCRETE BLOCK REVETMENT SYSTEM, TYPE 1	
			15								15	616	10000	15	MGAL	WATER	
											1,121	659	00300	1,401	CY	TOPSOIL	
											10,393	659	10000	12,911	SY	SEEDING AND MULCHING	
											126	659	14000	126	SY	REPAIR SEEDING AND MULCHING	
											126	659	15000	126	SY	INTER-SEEDING	
											1.36	659	20000	1.71	TON	COMMERCIAL FERTILIZER	
											2.09	659	31000	2.62	ACRE	LIME	
											82	659	35000	96	MGAL	WATER	
											10,000	832	30000	10,000	EACH	EROSION CONTROL	
						79					79	836	10000	79	SY	SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1	
															DRAINAGE		
25						0.2					0.2	602	20000	0.2	CY	CONCRETE MASONRY	
											25	605	13300	25	FT	6" UNCLASSIFIED PIPE UNDERDRAINS	
40						372					372	605	14000	372	FT	6" BASE PIPE UNDERDRAINS	
25											40	605	31100	40	FT	AGGREGATE DRAINS	
						30					55	611	00510	55	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	
											65	611	04600	65	FT	12" CONDUIT, TYPE C	
											33	611	04600	33	FT	12" CONDUIT, TYPE C, 706.1	
											2	611	98470	2	EACH	CATCH BASIN, NO. 2-2B	
											1	611	99574	1	EACH	MANHOLE, NO. 3	
1											3	611	99710	3	EACH	PRECAST REINFORCED CONCRETE OUTLET	

GENERAL SUMMARY

DESIGN AGENCY

 DESIGNER
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SHEET NUM.												PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
P.007	P.008	P.009	P.010	P.017	P.018	P.019	P.020	P.021				01/IMS/10	EXT	TOTAL				
PAVEMENT																		
16,427												16,427	254	01000	16,427	SY	PAVEMENT PLANING, ASPHALT CONCRETE (2" THICKNESS)	
					248							248	254	01000	248	SY	PAVEMENT PLANING, ASPHALT CONCRETE (3" THICKNESS)	
					169							169	301	56000	169	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
					212							212	304	20000	212	CY	AGGREGATE BASE	
1,396					136							1,532	407	10000	1,532	GAL	TACK COAT	
					52							52	441	50000	52	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22	
					52							52	441	70300	52	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)	
913												913	442	20000	913	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (448)	
					229							229	452	11010	229	SY	7" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	
					12							12	609	18000	12	FT	COMBINATION CURB AND GUTTER, TYPE 3	
					19							19	609	24511	19	FT	CURB, TYPE 4-C, AS PER PLAN	
					197							197	609	26000	197	FT	CURB, TYPE 6	
2												2	618	40600	2	MILE	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)	
TRAFFIC CONTROL																		
				8								8	626	00110	8	EACH	BARRIER REFLECTOR, TYPE 2 (BI-DIRECTIONAL)	
				19								19	626	00110	19	EACH	BARRIER REFLECTOR, TYPE 2 (ONE-WAY)	
							58.83					58.83	630	03100	58.83	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
							25					25	630	80100	25	SF	SIGN, FLAT SHEET	
							6					6	630	84900	6	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
							3					3	630	86002	3	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
							0.16					0.16	644	00100	0.16	MILE	EDGE LINE, 4"	
							0.08					0.08	644	00300	0.08	MILE	CENTER LINE, DOUBLE YELLOW	
							0.1					0.1	646	10000	0.1	MILE	EDGE LINE, 4"	
							0.05					0.05	646	10200	0.05	MILE	CENTER LINE, DOUBLE YELLOW	
STRUCTURES OVER 20 FOOT SPAN																		
																	FOR HAM-74-1335 ESTIMATED QUANTITIES	
																	P.044-P.045	
MAINTENANCE OF TRAFFIC																		
	50											50	410	12000	50	CY	TRAFFIC COMPACTED SURFACE, TYPE A OR B	
	25											25	410	13000	25	CY	TRAFFIC COMPACTED SURFACE, TYPE C	
			500									500	614	11110	500	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
		1,880										1,880	614	11630	1,880	FT	INCREASED BARRIER DELINEATION, ONE-WAY	
								4				4	614	12380	4	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	
		LS										LS	614	12420	LS		DETOUR SIGNING	
	25											25	614	13000	25	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	
								42				42	614	13310	42	EACH	BARRIER REFLECTOR, TYPE 1, BIDIRECTIONAL	
		38										38	614	13310	38	EACH	BARRIER REFLECTOR, TYPE 1, ONE-WAY	
		38						42				80	614	13350	80	EACH	OBJECT MARKER, ONE WAY	
								304				304	614	18010	304	SF	MAINTAINING TRAFFIC, MISC.: NON-REINFORCED CONCRETE LEVELING PAD, 6" THICK	
								12				12	614	18601	12	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	
								1,682				1,682	617	10101	1,682	CY	COMPACTED AGGREGATE, AS PER PLAN	
INCIDENTALS																		
												LS	614	11000	LS		MAINTAINING TRAFFIC	
												18	619	16021	18	MNTH	FIELD OFFICE, TYPE C, AS PER PLAN	
												LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
												LS	624	10000	LS		MOBILIZATION	

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STATION RANGE			TYPICAL SECTION	SIDE	DISTANCE (D)	CADD GENERATED AREA	202	202	204	254	301	304	407	441	441	608	609	609	609	452	
							PAVEMENT REMOVED	WALK REMOVED		SUBGRADE COMPACTION	PAVEMENT PLANING, ASPHALT CONCRETE (3" THICKNESS)	ASPHALT CONCRETE BASE, PG64-22, (449)	AGGREGATE BASE	TACK COAT (APPLIED AT 0.055 GAL/SY x 2 APPLICATIONS)	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)		5" CONCRETE WALK	CURB, TYPE 6	COMBINATION CURB AND GUTTER, TYPE 3	CURB, TYPE 4-C, AS PER PLAN
					FT	SY	SY	SF	SY	SY	CY	CY	GAL	CY	CY	SF	FT	FT	FT	SY	
17+19.55	TO	18+00.88		LT/RT	81.33	45.19	215.96	192.00													
17+52.97	TO	18+78.66		LT	125.69											691.30					
23+30.00	TO	23+50.86		LT/RT	20.86	55.18	55.18	280.00													
17+19.55	TO	17+25.55		LT	6.00														6.00		
17+25.55	TO	18+52.71		LT													127.16				
17+81.70	TO	17+87.70		RT	6.00														6.00		
17+87.70	TO	18+34.50		RT	46.80												46.80				
18+34.50	TO	18+52.67		RT	18.17															18.17	
21+21.33	TO	22+40.96		LT												682.84					
21+64.33	TO	21+86.40		LT													22.07				
17+19.55	TO	18+00.88		LT		45.19			45.19		7.53	7.53	4.97	1.88	1.88						
17+19.55	TO	18+00.88		LT/RT	81.33	192.65				192.65			21.19	8.03	8.03						
18+00.88	TO	18+78.45		LT/RT	77.57	251.96			266.33		43.19	42.47	27.72	10.50	10.50						
18+78.45	TO	19+08.66		LT/RT	30.21	100.00			138.08			23.01									
20+91.33	TO	21+21.33		LT/RT	30.00	100.00			138.08			23.01									
21+21.33	TO	23+30.00		LT/RT	208.67	675.45			714.10		115.80	113.86	74.30	28.14	28.14						
23+30.00	TO	23+50.86		LT/RT	20.86	55.18				55.18			6.07	2.30	2.30						
23+30.00	TO	23+50.86		RT	20.86	10.35			14.22		2.05	1.85	1.14	0.43	0.43						
DRIVEWAYS																					
17+78.93				LT	24.06	24.06															
					84.27				84.27												84.27
18+10.83				RT	55.26	55.26															
					44.99				44.99												44.99
22+49.67				LT	31.55	31.55															
					68.95				68.95												68.95
22+99.86				RT	27.73	27.73															
					30.30				30.30												30.30
SUBTOTALS							409.73	472.00	1544.49	247.83	168.56	211.74	135.39	51.28	51.28	1374.14	196.03	12.00	18.17	228.51	
TOTALS CARRIED TO GENERAL SUMMARY							410	472	1545	248	169	212	136	52	52	1375	197	12	19	229	

PAVEMENT SUBSUMMARY

DESIGN AGENCY

 DESIGNER
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 REVIEWER
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REF NO.	SHEET NO.	STATION TO STATION			203	203	614	614	614	614	617		622		659	659	659	659	659																					
					EXCAVATION	EMBANKMENT	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	BARRIER REFLECTOR, TYPE 1, BIDIRECTIONAL	OBJECT MARKER, ONE WAY	MAINTAINING TRAFFIC, MISC.: NON- REINFORCED CONCRETE LEVELING PAD, 6" THICK	COMPACTED AGGREGATE, AS PER PLAN		PORTABLE BARRIER, UNANCHORED		TOPSOIL	SEEDING AND MULCHING	COMMERCIAL FERTILIZER	LIME	WATER																					
					CY	CY	EACH	EACH	EACH	SF	CY		FT		CY	SY	TON	ACRE	MGAL																					
AG1	P.012	708+37.00	TO	721+75.00	LT/RT	779.1	259.7								518.9	4675	0.63	0.97	38																					
AG2	P.012-13	721+75.00	TO	722+95.00	LT/RT	114.1	38.1								76	985	0.09	0.14	6																					
AG3	P.013	722+95.00	TO	736+44.00	LT/RT	788.7	262.9								525.3	4733	0.64	0.98	38																					
PB1	P.012-13	718+55.00	TO	723+05.00	RT			1	10	10			440																											
PB2	P.012-13	718+90.00	TO	723+30.00	RT			1	10	10	152		440																											
PB3	P.012-13	721+40.00	TO	725+90.00	LT			1	10	10	152		440																											
PB4	P.012-13	721+60.00	TO	727+20.00	LT			1	12	12			560																											
TOTALS CARRIED TO GENERAL SUMMARY						1682	561	4	42	42	304	1682	1880		1121	10393	1.36	2.09	82																					

MAINTENANCE OF TRAFFIC SUBSUMMARY

DESIGN AGENCY
fishbeck

DESIGNER
JAL/JBT

REVIEWER
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