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ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGNS, AS PER PLAN

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE, WHEN NO LONGER NEEDED, A CHANGEABLE MESSAGE SIGN. THE SIGN SHALL BE OF A TYPE SHOWN ON A LIST OF APPROVED PCMS UNITS AVAILABLE ON THE OFFICE OF MATERIALS MANAGEMENT WEB PAGE. THE LIST CONTAINS CLASS A AND B UNITS WITH MINIMUM LEGIBILITY DISTANCES OF 800 FEET AND 650 FEET. RESPECTIVELY.

EACH SIGN SHALL BE TRAILER-MOUNTED AND EQUIPPED WITH A FUNCTIONAL DIMMING MECHANISM, TO DIM THE SIGN DURING DARKNESS, AND A TAMPER AND VANDAL PROOF ENCLOSURE. EACH SIGN SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ON-SITE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT. THE SIGN SHALL ALSO BE CAPABLE OF BEING POWERED BY AN ELECTRICAL SERVICE DROP FROM A LOCAL UTILITY COMPANY. THE PCMS SHALL BE DELINEATED IN ACCORDANCE WITH C&MS 614.03.

THE PROBABLE PCMS LOCATIONS AND WORK LIMITS FOR THOSE LOCATIONS ARE TO BE USED FOR THE SHORT-TERM CLOSURES OF I-77 IN ACCORDANCE WITH SCD MT-99.60 AS WELL AS FOR THE CLOSURE OF RAMP D4 AS SHOWN ON THE DETOUR PLAN ON SHEET 21. PLACEMENT, OPERATION, MAINTENANCE AND ALL ACTIVATION OF THE SIGNS BY THE CONTRACTOR SHALL BE AS DIRECTED BY THE ENGINEER. THE PCMS SHALL BE LOCATED IN A HIGHLY VISIBLE POSITION YET PROTECTED FROM TRAFFIC. THE CONTRACTOR SHALL, AT THE DIRECTION OF THE ENGINEER, RELOCATE THE PCMS TO IMPROVE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS. WHEN NOT IN USE, THE PCMS SHALL BE TURNED OFF. ADDITIONALLY, WHEN NOT IN USE FOR EXTENDED PERIODS OF TIME, THE PCMS SHALL BE TURNED AWAY FROM ALL TRAFFIC.

THE ENGINEER SHALL BE PROVIDED ACCESS TO EACH SIGN UNIT AND SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ODOT PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT, AND TO REVISE SIGN MESSAGES, IF NECESSARY.

ALL MESSAGES TO BE DISPLAYED ON THE SIGN WILL BE PROVIDED BY THE ENGINEER. A LIST OF ALL REQUIRED PRE-PROGRAMMED MESSAGES WILL BE GIVEN TO THE CONTRACTOR AT THE PROJECT PRE-CONSTRUCTION CONFERENCE. THE SIGN SHALL HAVE THE CAPABILITY TO STORE UP TO 99 MESSAGES. MESSAGE MEMORY OR PRE-PROGRAMMED DISPLAYS SHALL NOT BE LOST AS A RESULT OF POWER FAILURES TO THE ON-BOARD COMPUTER. THE SIGN LEGEND SHALL BE CAPABLE OF BEING CHANGED IN THE FIELD. THREE-LINE PRESENTATION FORMATS WITH UP TO SIX MESSAGE PHRASES SHALL BE SUPPORTED. PCMS FORMAT SHALL PERMIT THE COMPLETE MESSAGE FOR EACH PHASE TO BE READ AT LEAST TWICE.

THE PCMS SHALL CONTAIN AN ACCURATE CLOCK AND PROGRAMMING LOGIC WHICH WILL ALLOW THE SIGN TO BE ACTIVATED, DEACTIVATED OR MESSAGES CHANGED AUTOMATICALLY AT DIFFERENT TIMES OF THE DAY FOR DIFFERENT DAYS OF THE WEEK.

THE PCMS SHALL CONTAIN A CELLULAR TELEPHONE DATA LINK WHICH WILL (IN ACTIVE CELLULAR PHONE AREAS) ALLOW REMOTE SIGN ACTIVATION, MESSAGE CHANGES, MESSAGE ADDITIONS AND REVISIONS TO TIME OF DAY PROGRAMS. THE SYSTEM SHALL ALSO PERMIT VERIFICATION OF CURRENT AND PROGRAMMED MESSAGES. ONE REMOTE DATA INPUT DEVICE (LAPTOP COMPUTER PLUS MODEM OR EQUIVALENT) SHALL BE FURNISHED FOR USE BY THE DISTRICT TRAFFIC ENGINEER. OR EQUIVALENT, AND SHALL BE INSURED AGAINST THEFT. THE PCMS UNIT SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR IN ACCORDANCE WITH THE PROVISIONS OF C&MS 614.07. THE CONTRACTOR SHALL, PRIOR TO ACTIVATING THE UNIT, MAKE ARRANGEMENTS, WITH AN AUTHORIZED SERVICE AGENT FOR THE PCMS, TO ASSURE PROMPT SERVICE IN THE EVENT OF FAILURE. ANY FAILURE SHALL NOT RESULT IN THE SIGN BEING OUT OF SERVICE FOR MORE THAN 12 HOURS, INCLUDING WEEKENDS. FAILURE TO COMPLY MAY RESULT IN AN ORDER TO STOP WORK AND OPEN ALL TRAFFIC LANES AND/OR IN THE DEPARTMENT TAKING APPROPRIATE ACTION TO SAFELY CONTROL TRAFFIC. THE ENTIRE COST TO CONTROL TRAFFIC, ACCRUED BY THE DEPARTMENT DUE TO THE CONTRACTOR'S NONCOMPLIANCE, WILL BE DEDUCTED FROM MONEYS DUE, OR TO BECOME DUE THE CONTRACTOR ON HIS CONTRACT.

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGNS, AS PER PLAN (CONTINUED)

THE CONTRACTOR SHALL BE RESPONSIBLE FOR 24-HOUR-PER-DAY OPERATION AND MAINTENANCE OF THESE SIGNS ON THE PROJECT FOR THE DURATION OF THE PHASES WHEN THE PLAN REQUIRES THEIR USE.

PAYMENT FOR THE ABOVE DESCRIBED ITEM SHALL BE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL INCLUDE ALL LABOR, EQUIPMENT, FUELS, LUBRICATING OILS, SOFTWARE, HARDWARE AND INCIDENTALS TO PERFORM THE ABOVE DESCRIBED WORK.

614, PORTABLE CHANGEABLE MESSAGE 15 SNMT SIGN, AS PER PLAN

ITEM 614, WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS (UNIDIRECTIONAL OR BIDIRECTIONAL)

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING A NON-GATING IMPACT ATTENUATOR. FURNISH AN IMPACT ATTENUATOR FROM THE OFFICE OF ROADWAY ENGINEERING'S APPROVED LIST FOR WORK ZONE IMPACT ATTENUATORS, FROM THE ROADWAY STANDARDS APPROVED PRODUCTS WEB

INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE CONTRACTOR SHALL REPAIR OR REPLACE A DAMAGED UNIT WITHIN 24 HOURS OF A DAMAGING IMPACT.

WHEN BIDIRECTIONAL DESIGNS ARE SPECIFIED, THE CONTRACTOR SHALL SUPPLY APPROPRIATE TRANSITIONS.

WHEN GATING IMPACT ATTENUATORS ARE DESIRED, THE CONTRACTOR SHALL SUBMIT DOCUMENTATION TO THE ENGINEER FOR ACCEPTANCE.

THE COST FOR THE ADDITIONAL BARRIER REQUIRED FOR A GATING IMPACT ATTENUATOR SHALL BE INCLUDED IN THE COST OF THE GATING IMPACT ATTENUATOR.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT, AND MATERIALS NECESSARY TO CONSTRUCT AND MAINTAIN A COMPLETE AND FUNCTIONAL IMPACT ATTENUATOR SYSTEM, INCLUDING ALL RELATED BACKUPS, TRANSITIONS, LEVELING PADS, HARDWARE AND GRADING, NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

EARTHWORK FOR MAINTAINING TRAFFIC

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED IN THE PLAN FOR INFORMATION ONLY.

EXCAVATION FOR MAINTAINING TRAFFIC 415 CY

EMBANKMENT FOR MAINTAINING TRAFFIC 415 CY

WHEN UNDERCUTS ARE NECESSARY FOR MAINLINE PAVEMENT OR EMBANKMENT CONSTRUCTION, EVALUATE THE NEED FOR TEMPORARY ROAD UNDERCUTS IF WITHIN A CLOSE PROXIMITY TO THE MAINLINE UNDERCUTS. A GEOTECHNICAL EVALUATION SHOULD BE CONSIDERED TO DETERMINE IF THE EXISTING SOIL CONDITIONS ARE ADEQUATE TO SUPPORT THE TEMPORARY ROAD. ADDITIONAL SOIL BORINGS ALONG THE TEMPORARY ROAD ARE NOT NORMALLY REQUIRED.

ALL COSTS RESULTING FROM THE ABOVE EARTHWORK FOR MAINTIANING TRAFFIC SHALL BE CONSIDERED TO BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 615, ROADS FOR MAINTAINING TRAFFIC.

DRAINAGE FOR MAINTAINING TRAFFIC

THE FOLLOWING QUANTITY HAS BEEN INCLUDED IN THE PLAN FOR DRIVE PIPES FOR INFORMATION ONLY AND SHALL BE PAID FOR UNDER ITEM 615 - ROADS FOR MAINTAINING TRAFFIC.

12" CONDUIT, TYPE D 600 FT

MAINTENANCE OF TRAFFIC SIGNAL/FLASHER INSTALLATION

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC SIGNAL/FLASHER INSTALLATIONS WITHIN THE PROJECT UNDER THE FOLLOWING CONDITION:

- 1. EXISTING SIGNAL/FLASHER INSTALLATIONS WHICH THE PLANS REQUIRE THE CONTRACTOR TO ADJUST, MODIFY, ADD ONTO OR REMOVE, OR WHICH THE CONTRACTOR ACTUALLY ADJUSTS, MODIFIES OR OTHERWISE DISTURBS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ENTIRE INSTALLATION (AT AN INTERSECTION) FROM THE TIME HIS OPERATIONS FIRST DISTURB THE INSTALLATION UNTIL THE INSTALLATION HAS BEEN SUBSEQUENTLY REMOVED OR MODIFIED AND THE WORK IS ACCEPTED.
- 2. NEW OR REUSED SIGNAL/FLASHER INSTALLATIONS OR DEVICES, INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THESE FROM THE TIME OF INSTALLATION UNTIL THE WORK IS ACCEPTED.

THE CONTRACTOR SHALL CORRECT AS QUICKLY AS POSSIBLE ALL OUTAGES OR MALFUNCTIONS. HE SHALL PROVIDE THE MAINTAINING AGENCY AND THE ENGINEER SUCH ADDRESSES AND PHONE NUMBERS WHERE HIS MAINTENANCE FORCES CAN BE CONTACTED. THE CONTRACTOR SHALL PROVIDE ONE OR MORE PERSONS TO RECEIVE ALL CALLS AND DISPATCH THE NECESSARY MAINTENANCE FORCES TO CORRECT OUTAGES. SUCH A PERSON OR PERSONS MAY BE USED TO PERFORM OTHER DUTIES AS LONG AS PROMPT ATTENTION IS GIVEN TO THESE CALLS AND A PERSON IS READILY AVAILABLE CONTINUOUSLY 24 HOURS A DAY, 7 DAYS A WEEK. ALL LAMP OUTAGES, CABLE OUTAGES, ELECTRICAL FAILURES, EQUIPMENT MALFUNCTIONS AND MISALIGNED SIGNAL HEADS SHALL BE CORRECTED TO THE SATISFACTION OF THE ENGINEER WITH THE SIGNAL BACK TO SERVICE WITHIN FOUR HOURS AFTER THE CONTRACTOR HAS BEEN NOTIFIED OF THE

IN THE EVENT NEW SIGNALS ARE DAMAGED PRIOR TO ACCEPTANCE, ALL DAMAGED EQUIPMENT EXCEPT POLES AND CONTROL EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER WITH THE SIGNAL BACK IN SERVICE WITHIN 8 HOURS AFTER THE CONTRACTOR'S NOTIFICATION OF THE OUTAGE. THE CONTRACTOR SHALL ARRANGE FOR FULL TRAFFIC CONTROL UNTIL THE SIGNAL IS BACK IN OPERATION. IF POLES AND/OR CONTROL EQUIPMENT ARE DAMAGED AND MUST BE REPLACED, THE CONTRACTOR SHALL MAKE TEMPORARY REPAIRS AS NECESSARY TO BRING THE SIGNAL BACK INTO FULL OPERATION WITHIN THE ALLOWED 8-HOUR PERIOD, AND SHALL MAKE PERMANENT REPAIRS OR REPLACEMENT AS SOON THEREAFTER AS POSSIBLE.

NONE OF THE ABOVE SHALL BE CONSTRUED AS COLLECTIVE OR CONSECUTIVE OUTAGE TIME PERIODS AT ANY ONE LOCATION. THAT IS, WHERE MORE THAN ONE OUTAGE OCCURS AT ANY ONE LOCATION THEN THE ALLOTTED TIME LIMIT SHALL BE FOR THE WORST SINGLE OUTAGE.

WHERE OUTAGES ARE THE DIRECT RESULT OF A VEHICLE CRASH THE RESPONSE OF THE CONTRACTOR SHALL BE AS OUTLINED ABOVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COLLECTION OF ANY COMPENSATION FOR THIS WORK FROM THOSE PARTIES RESPONSIBLE FOR THE DAMAGE.

WHERE THE CONTRACTOR HAS FAILED TO, OR CANNOT RESPOND TO, AN OUTAGE OR SIGNAL EQUIPMENT MALFUNCTION, AT THESE LOCATIONS WITHIN HIS RESPONSIBILITY, WITHIN PERIODS AS SPECIFIED ABOVE, THE ENGINEER MAY INVOKE THE PROVISIONS OF SECTION 105.15 AND ANY SUBSEQUENT BILLINGS TO THE STATE OR THE CITY OF BROADVIEW HEIGHTS FOR POLICE SERVICES AND MAINTENANCE SERVICES BY CITY FORCES SHALL BE DEDUCTED FROM MONIES DUE OR TO BECOME DUE THE CONTRACTOR IN ACCORDANCE WITH PROVISIONS OF SECTION 105.15.

THE CONTRACTOR SHALL PROVIDE THE MAINTENANCE SERVICE ENTIRELY WITH HIS FORCES OR HE MAY CHOOSE TO ENTER INTO A COOPERATIVE UNDERSTANDING WITH THE LOCAL MAINTAINING AGENCY TO PROVIDE THE MAINTENANCE. THE CONTRACTOR SHALL INFORM THE ENGINEER, IN WRITING, OF THE MAINTENANCE METHOD SELECTED.

MAINTENANCE OF TRAFFIC SIGNAL/FLASHER INSTALLATION (CONTINUED)

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY TRAFFIC SIGNAL COMPONENTS REQUIRED TO BE HANDLED DURING THE RELOCATION OF POLES AND REVISIONS TO THE SIGNAL SYSTEM. WHEN A TRAFFIC SIGNAL MUST BE TAKEN OUT OF SERVICE BY THE CONTRACTOR, DUE TO CONSTRUCTION PROCEDURES, THIS OUTAGE SHALL NOT EXCEED 4 HOURS AND SHALL NOT INCLUDE THE HOURS OF 7:00AM TO 7:00PM. ANY SIGNALIZED INTERSECTION, WHERE THE SIGNAL IS OUT OF SERVICE DUE TO CONSTRUCTION PROCEDURES, OR DUE TO AN OUTAGE OR MALFUNCTION OF EQUIPMENT AS DESCRIBED ABOVE, SHALL BE PROTECTED BY OFF-DUTY CITY OF BROADVIEW HEIGHTS POLICE, HIRED BY THE CONTRACTOR.

ANY VEHICULAR TRAFFIC SIGNAL HEAD, EITHER NEW OR EXISTING WHICH WILL BE OUT OF OPERATION SHALL BE COVERED IN THE MANNER DESCRIBED IN 632.25.

THE CONTRACTOR SHALL MAINTAIN COMPLETE RECORDS OF MALFUNCTIONS INCLUDING:

- 1. TIME OF NOTIFICATION OF MALFUNCTION;
- 2. TIME OF WORK CREWS ARRIVAL TO CORRECT THE MALFUNCTION;
- 3. ACTIONS TAKEN TO CORRECT THE MALFUNCTION, INCLUDING A LIST OF PARTS REPAIRED OR REPLACED:
- 4. A DIAGNOSIS OF REASON FOR THE MALFUNCTION AND PROBABILITY OF REOCCURRENCE;
- 5. TIME OF COMPLETION OF THE REPAIR AND SYSTEM RESTORED TO FULL SERVICE.

A COPY OF THESE RECORDS SHALL BE PROVIDED TO THE ENGINEER WITHIN THREE (3) WORKING DAYS FOLLOWING COMPLETION OF EACH REPAIR.

ALL COSTS RESULTING FROM THE ABOVE REQUIREMENTS SHALL BE CONSIDERED TO BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614, MAINTAINING TRAFFIC.

ITEM 614, MAINTAINING TRAFFIC MISC .: TEMPORARY CLOSURE IR-77

CONTRACTOR TO COORDINATE WITH AT&T RELOCATION CONTRACTOR TO PROVIDE MAINTENANCE OF TRAFFIC FOR THE PLACEMENT OF WIRES OVER NORTHBOUND AND SOUTHBOUND IR-77. MAINTENANCE OF TRAFFIC SHALL FOLLOW ALL REQUIREMENTS OF FREEWAY/EXPRESSWAY CLOSURE IN WORKZONES SCD MT-99.50 OR SHORT-TERM CLOSURE OF A MULTI-LANE DIVIDED HIGHWAY SCD MT-99.60. CONTRACTOR SHALL PROVIDE NOTICE OF CLOSURE AS DESCRIBED IN THESE PLANS. CONTRACTOR SHALL INCLUDE THE COST OF A LAW ENFORCEMENT OFFICER (LEO) WITH THIS ITEM. CONTRACTOR SHALL BID THIS ITEM FOR ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO TEMPORARILY CLOSE ONE DIRECTION OF IR-77 EITHER NORTHBOUND OR SOUTHBOUND AT A TIME.

614, MAINTAINING TRAFFIC, MISC.: TEMPORARY CLOSURE IR-77

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ITEM 614. MAINTAINING TRAFFIC MISC.: SHOULDER CLOSURE IR-77

CONTRACTOR TO COORDINATE WITH AT&T RELOCATION CONTRACTOR TO PROVIDE MAINTENANCE OF TRAFFIC FOR THE PLACEMENT OF TEMPORARY UTILITY POLES WITHIN THE SHOULDERS AND MEDIAN OF IR-77. MAINTENANCE OF TRAFFIC SHALL FOLLOW ALL REQUIREMENTS OF CLOSING RIGHT OR LEFT LANE OF A MULTI-LANE DIVIDED HIGHWAY WITH DRUMS SCD MT-95.30. CONTRACTOR SHALL BID THIS ITEM FOR ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO TEMPORARILY CLOSE THE SHOULDERS OF IR-77.

614, MAINTAINING TRAFFIC, MISC.: SHOULDER CLOSURE IR-77

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			1		-1	9	SHEET NO	UM.					_		PART.	1 ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET
OFFICE CALCS	12	13	63	64	67	68	69	93	97	101	107	122	168	RW PLANS	01/SAF/04 02/SAF/1		EXT	TOTAL	OIVIT		NO.
															LS	201	11000	LS		ROADWAY CLEARING AND GRUBBING	11
4,188											474				4,662	202	23000	4,662	SY	PAVEMENT REMOVED	
			1,006 154		_	1									154	202	<i>30000</i> <i>30700</i>	1,006 154	SF FT	WALK REMOVED CONCRETE BARRIER REMOVED	
			1,683		1	1									1,683	202	32000	1,683	FT	CURB REMOVED	
				853		331						150			1,334	202	35100	1,334	FT	PIPE REMOVED, 24" AND UNDER	
			100												100	202	38000	100	FT	GUARDRAIL REMOVED	
				12											12	202	58000 58100	12	EACH EACH	MANHOLE REMOVED CATCH BASIN REMOVED	
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						2									2	202	75600	2	EACH	METER VAULT REMOVED	
						2									2	202	75610	2	EACH	VALVE BOX REMOVED	
		LS													LS	202	98000	LS	FACII.	REMOVAL MISC: STONES, POSTS, LANDSCAPING, AND WALLS	13
		2				2									2	202	98100 98100	2	EACH EACH	REMOVAL MISC.: GATE VALVE REMOVED AND DISPOSED OF REMOVAL MISC.: CONCRETE FOUNDATIONS	122 13
								2 , 287	318	232					2,837	203	10000	2,837	CY	EXCA VA TION	
								402		137					539	203	20000	539	CY	EMBANKMENT	
.497								000	775	10.4	813				9,310	204	10000	9,310	SY	SUBGRADE COMPACTION	
					_			628 628	<i>335 335</i>	184 212		1			1,147	204	13000 30010	1,147 1,175	CY CY	EXCAVATION OF SUBGRADE GRANULAR MATERIAL, TYPE B	
4								020	330	212					4	204	45000	4	HOUR	PROOF ROLLING	
								621	1,007	637					2,265	204	50000	2 , 265	SY	GEOTEXTILE FABRIC	
			75												75	606	15050	75	FT	GUARDRAIL, TYPE MGS	
			2												2	606	35002	2	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	
			318												318	607	23000	318	FT	FENCE, TYPE CLT	
			7,411												7,411	608	10000	7,411	SF	4" CONCRETE WALK	
			431												431	608	52000	431	SF	CURB RAMP	
		13													13	SPECIAL	61199700	13	EACH	GAS VALVE BOX ADJUSTED TO GRADE	13
			98												98	622	10161	98	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN	13
			2												2	622	25000	2	EACH	CONCRETE BARRIER END SECTION, TYPE D	
			2												2	622	25050	2	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D	
														24	24	623	40521	24	EACH	RIGHT-OF-WAY MONUMENT, TYPE B, AS PER PLAN	11
	16														16	SPECIAL	69050350	16	EACH	MAILBOX REMOVED AND RESET	12
																3				EROSION CONTROL	
													246		246	601	20000	246	SY	CRUSHED AGGREGATE SLOPE PROTECTION	
	2														2	659	00100	2	EACH	SOIL ANALYSIS TEST	
	426														426	659	00300	426	CY	TOPSOIL	
	2,789							2 , 336	149	1,352	1				3,837 C 2,789 S	659 659	10000 14000	3,837 2,789	SY SY	SEEDING AND MULCHING REPAIR SEEDING AND MULCHING	
	192														192	659	15000	192	SY	INTER-SEEDING AND MOLCHING	
	0.50														0.50	3	20000	0.50	TON		
	0.52 0.79														0.52	659	<i>20000 31000</i>	0.52 0.79	TON ACRE	COMMERCIAL FERTILIZER LIME	
	21														21	659	35000	21	MGAL	WATER	
							LS								LS	832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN	
						1	LS LS			1	1			1	LS	832	15002 15010	LS LS		STORM WATER POLLUTION PREVENTION INSPECTIONS STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	
,000															39,000	832	30000	39,000	EACH	EROSION CONTROL	
					307										307	605	12210	307	FT	DRAINAGE 6" DEEP PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	
					429	1				1	1			1	429	605	13410	429	FT	6" UNCLASSIFIED PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	
1				1	3,716					1			1		3,716	605	14020	3,716	FT	6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	

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					SHEE	T NUM.		_		•		P.A.	RT.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET	ALCULATED KAH
OFFICE CALCS	12	13	14	63	66	67	68	107	119	122	127	01/SAF/0		I \	EXT	TOTAL	OIVII	DESCRIT TION	NO.	CALC
						160						160		611	00510	160	FT	DRAINAGE (CONT.) 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS		7
	100					100			1			100	·	611	00900	100	FT	6" CONDUIT, TYPE B		-
	100				509							609	•	611	04400	609		12" CONDUIT, TYPE B		
					90							90		611	04400	90		12" CONDUIT, TYPE B, 706.02		
					10				1		1	10	•	611	04600	10	FT	12" CONDUIT, TYPE C, 706.02		
	150				204				1		1	354		611	05900	354	FT	15" CONDUIT, TYPE B		_
	130				60							60	<u>' </u>	611	05900	60	FT	15" CONDUIT, TYPE B, 706.02		
					30							30		611	05900	30		15" CONDUIT, TYPE B, 706.08		
					85							85		611	06700	85	FT	15" CONDUIT, TYPE F, 707.05 TYPE C OR 707.21		
					1							1		611	98150	1	EACH	CATCH BASIN, NO. 3		
					13				1		1	17	· ·	611	98180	13	EACU.	CATCH DACIN NO ZA		
					13							13		611	98371	13	EACH EACH	CATCH BASIN, NO. 3A CATCH BASIN, NO. 6, AS PER PLAN	12	
					3				1		1	3	· · · · · · · · · · · · · · · · · · ·	611	98630	3	EACH	CATCH BASIN ADJUSTED TO GRADE	12	_
					10							10		611	99574	10	EACH	MANHOLE, NO. 3		
	3											3		611	99651	3	EACH	MANHOLE FRAME AND COVER, AS PER PLAN	12	
												7	•)		7				_
	3,000	1.0										3,000	· <u> </u> .	SPECIAL	61199820	<u> </u>	LB	MISCELLANEOUS METAL	12	_
		LS										LS	1	611	99920	LS		DRAINAGE STRUCTURE, MISC.: CATCH BASIN LINING	13	_
									1		1		<u>.</u>	\						-
												\		3				PAVEMENT		
			66									66		251	01000	66	SY	PARTIAL DEPTH PAVEMENT REPAIR (441)	14	
007			225									225	· ·	253	01001	225	SY	PAVEMENT REPAIR, AS PER PLAN	14	
,607 ,321								_	1		1	1,607 (1,321)		254 254	01000	1,607 1,321	SY SY	PAVEMENT PLANING, ASPHALT CONCRETE, 1.25" PAVEMENT PLANING, ASPHALT CONCRETE, 1.5"		4
,021												1,521	·	234	01000	1,521	31	FAVENIENT FLANING, ASFRALT CONCRETE, 1.5		-
222	86								1			1,308		301	56000	1,308	CY	ASPHALT CONCRETE BASE, PG64-22, (449)		
								14				14	•	301	56100	14	CY	ASPHALT CONCRETE BASE, PG64-22, (449), (DRIVEWAYS), 3.5"		
407								70				1.575		704	00000	1.575	01/	400DE04TE D4CE		_
497 454								78			1	1,575 1,461	· ·	304	20000 20000	1,575 1,461	CY GAL	AGGREGATE BASE NON-TRACKING TACK COAT		_
,434								 				1,401	. .	707	20000	1,401	GAL	NON-INACKING TACK COAT		
471												471	-	441	10101	471	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446), AS PER PLAN, PG70-22M, 1.25" OR 1.5"	13	_
97												497		441	10200	497		ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (446), 1.75"		
								5	1			5	· ·	441	70500	5		ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), (DRIVEWAYS), PG64-22, 1.25"		_
								3	1			3 (441	70700	3	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449), (DRIVEWAYS), PG64-22, 1.75"		_
								485	†		†	485		452	10050	485	SY	6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS OR QC1 WITH ACCELERATOR		-
								167				167		452	12050	167	SY	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS OR QC1 WITH ACCELERATOR		_
												}		}						
				2,896					<u> </u>		<u> </u>	2,896		609	12000	2,896	FT	COMBINATION CURB AND GUTTER, TYPE 2		_
				36 963				114				1,077	· ·	609	24510 26000	36 1,077	FT FT	CURB, TYPE 4-C		_
128				903				114				128	-	SPECIAL	69012060			CURB, TYPE 6 PAVEMENT OVERLAY FABRIC COMPOSITE	14	-
120									1		10	10	· ·	SPECIAL	69098300			FULL DEPTH SHOULDER PAVEMENT REPLACEMENT	127	1
									<u> </u>			}		}				WATER WORK		_
							28					28	•	638	00600	28	FT	6" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 52, PUSH-ON JOINTS AND FITTINGS		
							45 178		1	150	<u> </u>	328	<u>. </u> .	638	01200 02400	45 328	FT FT	8" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 52, PUSH-ON JOINTS AND FITTINGS 12" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 52, PUSH-ON JOINTS AND FITTINGS		
							110			268		268	-	638	04900	268	FT	1" COPPER SERVICE BRANCH		_
							251					251		638	06200	251	FT	POLYETHYLENE ENCASEMENT		
														3						
							2					2 (638	07800	2	EACH	6" GATE VALVE AND VALVE BOX		_
							2			2		2	· ·	638	07900 08100	2	EACH EACH	8" GATE VALVE AND VALVE BOX 12" GATE VALVE AND VALVE BOX		_
							2			2	1	2	. <u> </u> .	638	10200	2	EACH	6" FIRE HYDRANT		-
							2	1	1			2		638	10700	2		FIRE HYDRANT REMOVED AND DISPOSED OF		1
														Ź						_
							3					3		638	10800	3				_
							3		1	<u> </u>		3		638	10900	3	EACH	SERVICE BOX ADJUSTED TO GRADE	101	4
							2	1	1	7		7	· · · · · · · · · · · · · · · · · · ·	SPECIAL 638	63821002 98000	7	EACH EACH	INSTALL 1" METER SETTING, COMPLETE, CLEVELAND WATER WORK, MISC.: 1" SERVICE VALVE & VALVE BOX, COMPLETE	121 122	-
								+	15			15		638	98000	15		WATER WORK, MISC.: I SERVICE VALVE & VALVE BOX, COMPLETE WATER WORK, MISC.: POT-HOLING EXISTING WATER MAIN	119	-
										L	<u> </u>	,,,	<u>.</u>	<u> </u>						_ _
									LS			LS		638	98100	LS		WATER WORK, MISC.: MAINTENANCE OF WATER SERVICE	119	1
									400		1	400		638	98600	400	FT	WATER WORK, MISC.: FROSTPROOFING FOR 8" WATER MAIN	119	7
				1			1		1	150	I	150	1	SPECIAL	69099400	150	LB	ADDITIONAL DUCTILE IRON FITTINGS	122	

					SHEET NU	М.					PA	RT.		ITEM	GRAND		SEE	LATED VH :KED
	OFFICE CALCS	12	66		132	133	135	148	149	C	>	02/SAF/13	<u> </u>	EXT	TOTAL	UNIT	DESCRIPTION SHEET NO.	CALCULAT KAH CHECKE
											\		3				SANITARY SEWER	
		60									60		611	01800	60	FT	8" CONDUIT, TYPE B	_
		3									3	•	611 611	99574 99651	3		MANHOLE, NO. 3 MANHOLE FRAME AND COVER, AS PER PLAN 12	_
			6								6		2 611	99654	6	EACH	MANHOLE ADJUSTED TO GRADE	
			3								3	•	611	99661	3		MANHOLE RECONSTRUCTED TO GRADE, AS PER PLAN 13	
													2					
		1									4		<u> </u>	00701	1	EACH.	INSPECTION WELL AS PER PLAN 12	
		4									4		<u>)</u> 611	99721	4	EACH	INSPECTION WELL, AS PER PLAN 12	
											<u> </u>		3					
တ္က)		_		LIGHTING	
000									6		6	•	625 625	00450 00480	6	EACH EACH	CONNECTION, FUSED PULL APART CONNECTION, UNFUSED PERMANENT	
									3		3		625	02600	3	EACH	TRANSFORMER BASE, TYPE AT-C	_
$\overline{\checkmark}$											\(\frac{1}{2}\)	•	}	3233		271017		
Σ									3		3		625	14000	3	EACH	LIGHT POLE FOUNDATION, 24" X 6' DEEP	
80									486		486	•	625	23200	486	FT	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE	≿
0									467		467		625	24320	467	FT	1-1/2" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES	∃ ₹
2024									15		15		2 625	25402	15	• •	CONDUIT, 2", 725.05	Σ
6												•	<u>}</u>					
<u>o</u>									452		452		625	29002	452	FT	TRENCH, 24" DEEP	S
C									1		1	•	625	30700	1		PULL BOX, 725.08, 18"	┦ .
D. M								1	3		1) 625 625	<i>32000</i> <i>33001</i>	<u> </u>	EACH EACH	GROUND ROD STRUCTURE GROUNDING SYSTEM, AS PER PLAN 148	⊢
0099								,	1		1		625	34001	1		POWER SERVICE, AS PER PLAN 148	ER/
2 2 0 0									3		3	•	625	35011	3	EACH	REMOVE AND REERECT EXISTING LIGHT POLE, AS PER PLAN 148	
90/									452		452		625	36010	452	FT	UNDERGROUND WARNING/MARKING TAPE	Ш
——————————————————————————————————————								LS	1		LS	•	SPECIAL	62540000 75800	LS	EACH	MAINTAIN EXISTING LIGHTING 148	<u>්</u> ග
Φ 									4		4) 020	73000	4	ЕАСП	DISCONNECT CIRCUIT	
> >)												3					
» >>>					40						40)	00100	40	EACH.	TRAFFIC CONTROL	
0					42						42	•	} 621	00100	42	EACH	RPM	
)						2				2		625	32000	2	EACH	GROUND ROD	
δ Φ Ω							105				105		270	00100	105	<u></u>		
/6/							195 257.9				195 257.9		630	<i>02100 03100</i>	195 257 . 9		GROUND MOUNTED SUPPORT, NO. 2 POST GROUND MOUNTED SUPPORT, NO. 3 POST	_
7-							55				55	•	630	06400	55		GROUND MOUNTED STRUCTURAL BEAM SUPPORT, S4X7.7	
<u> </u>							71				71		630	07600	71	FT	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W10X12	
							30				30		<u> </u>	08100	30	FT	ONE WAY SUPPORT, NO. 4 POST	
2 2 3 0							25				25		630	08520	25	FT	STREET NAME SIGN SUPPORT, NO. 3 POST	
							7				7	•	630	08600	7		SIGN POST REFLECTOR	
) TOC							8				8		630	09000	8		BREAKAWAY STRUCTURAL BEAM CONNECTION	
0/							2				2		630	76520	2		SPAN WIRE SIGN SUPPORT, TYPE TC-17.11, DESIGN 8	
0							2				2		630	79000	2	EACH	SIGN HANGER ASSEMBLY, SPAN WIRE	
\(\frac{\pi}{\omega}\)							6				6		630	79100	6	EACH	SIGN HANGER ASSEMBLY, MAST ARM	
							348.95				348.95		630	80100	348.95	SF	SIGN, FLAT SHEET	ာ
□ ※							166 g				166		630 630	80200 84500	166 8		SIGN, GROUND MOUNTED EXTRUSHEET GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION	│
4 W							2				2		630	84520	2		SPAN WIRE SIGN SUPPORT FOUNDATION	4
\(\)						4.0					40		2	0.4000	40			-
) ()					1	49 23		-			49 23		630	84900 86002	49 23	EACH EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
> 						14					14		630	86102	14	EACH	REMOVAL OF GROUND MOUNTED STRUCTURAL BEAM SUPPORT AND DISPOSAL	>
0			_			1					1		630	86272	1	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
3170					+	5	-	-			5 () 630)	87500	5	EACH	REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL	
3/302							155				155		632	30200	155	FT	MESSENGER WIRE, 7 STRAND, 3/8" DIAMETER WITH ACCESSORIES	1
3499,0					0.37						0.37	· ·	644	00104	0.37	MILE	EDGE LINE, 6"	<u> </u>
0					0.04						0.04		644	00204	0.04	MILE	LANE LINE, 6"	59 217
0 M /				 	0.68 1,774		<u> </u>	-			0.68	·	644	00300 00404	0.68 1,774	MILE FT	CENTER LINE CHANNELIZING LINE, 12"	217
۵				<u>. </u>	1,114	1	<u> </u>	<u> </u>	<u> </u>	1	۱۱۱۲ (uu		00404	19114	ΓΙ	UTIMINIVELIZINU LINE, IZ	

	132 157 209 296 247 105 48 3 530				01	1/SAF/04 02	/CAF /17)	ア ソナ	$T \cap T \wedge I$		
	296 247 105 48					17 JAI 7 0 COZ	/ SAF / 13 /		EXT	TOTAL		
	296 247 105 48					209		644	00500	209	FT	TRAFFIC CONTROL (CONT.) STOP LINE
	247 105 48 3					296		644	00620	296		CROSSWALK LINE, 12"
	105 48 3					247	\ \ \ \ \ \	644	00700	247	FT	TRANSVERSE/DIAGONAL LINE
(3					105	3	644	00900	105	SF	ISLAND MARKING
(<i>3 530</i>					48	7	644	01300	48	EACH	LANE ARROW
(530					7	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	644	01360	7	EACH	WRONG WAY ARROW
						530		644	01500	530		DOTTED LINE, 4"
						<u> </u>	\ \ \					
	0.07					0.07		646 646	10200	0.07	MILE	CENTER LINE
	286 4					286		646	10310 20300	286 4	EACH	CHANNELIZING LINE, 12" LANE ARROW
	·					· {	2			•		
							2)				TRAFFIC SIGNALS
	27					27	\\ \tag{2}	625	25402	27	FT	CONDUIT, 2", 725.05
	262					262	7	625	25502	262	FT	CONDUIT, 3", 725.05
	164					164	7	625	25602	164	FT	CONDUIT, 4", 725.05
	408					408	7	625	<i>25603</i>	408		CONDUIT, 4", 725.05, AS PER PLAN
	249					249		625	25900	249	<i>F1</i>	CONDUIT, JACKED OR DRILLED, 4"
	248					248		625	29000	248	FT	TRENCH
	13					13	7	625	30706	13		PULL BOX, 725.08, 24"
	5					5	2	625	31510	5		PULL BOX REMOVED
	8					8	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	625	32000	8	EACH	GROUND ROD
	12					12		632	05006	12	EACH	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE (BLACK)
	3					3	3	632	05086	3		VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE (BLACK)
	4					4		632	20731	4		PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, AS PER PLAN
	15					15		632	<i>25000</i>	15	+	COVERING OF VEHICULAR SIGNAL HEAD
	4					4 (632	25010	4	EACH	COVERING OF PEDESTRIAN SIGNAL HEAD
	4					4	3	632	26000	4		PEDESTRIAN PUSHBUTTON
	765					765	2	632	40200	765		SIGNAL CABLE, 2 CONDUCTOR, NO. 14 AWG
	785 767					785 767		632 632	40500 40700	785 767		SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG
	560					560		632	40700	560		SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG SIGNAL CABLE, 9 CONDUCTOR, NO. 14 AWG
						E	3					
	4					4		632	64010 64020	4		SIGNAL SUPPORT FOUNDATION
	6					6	7	632 632	64950	6	•	PEDESTAL FOUNDATION TEST HOLE PERFORMED
	121					121		632	68200	121		POWER CABLE, 2 CONDUCTOR, NO. 6 AWG
	398					398	3	632	68300	398		POWER CABLE, 3 CONDUCTOR, NO. 6 AWG
	2					2	3	632	70000	2	EACH	POWER SERVICE
	1					1	3	632	71368	1	.	SIGNAL SUPPORT, TYPE TC-12.31 DESIGN 10 POLE, WITH MAST ARMS TC-81.22 DESIGN 13 AND DESIGN 12
	1					1	Ź	632	71388	1	EACH	SIGNAL SUPPORT, TYPE TC-12.31 DESIGN 10 POLE, WITH MAST ARMS TC-81.22 DESIGN 14 AND DESIGN 12
	1					1		632	72110	1		SIGNAL SUPPORT, TYPE TO 81.82, DESIGN 4
						1	$\frac{1}{2}$	632	72130	1	EACH	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 12
	2					2	3	632	89610	2		PEDESTAL, 9'
	2					2	3	632	90101	2	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN
						2		633	65523	2	EACH	CABINET, TYPE 332L, AS PER PLAN
	2					2		633	67100	2		CABINET FOUNDATION
	2					2		633	67200	2		CONTROLLER WORK PAD
	2					2		633	75001	2	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN
	1				+ +	1		809	60040	1	EACH	CCTV IP-CAMERA SYSTEM, QUAD MULTI-VIEW FIXED WITH PTZ
	256					256	3	809	64550	256	FT	ETHERNET CABLE, OUTDOOR-RATED
	5					5		809	69101	5		STOP LINE RADAR DETECTION, AS PER PLAN
	2 2		 			2		809 809	69123 69201	2	1	ATC CONTROLLER, AS PER PLAN EMERGENCY VEHICLE PREEMPTION, AS PER PLAN
						_	3					
	6					6		809 809	69211 69221	1 270		PREEMPT RECEIVING UNIT, AS PER PLAN
	1,238 2		 			1,238	B	809 809	69221 69231	1,238 2	•	PREEMPT DETECTOR CABLE, AS PER PLAN PREEMPT PHASE SELECTOR, AS PER PLAN
	6					6	3	809	69241	6		PREEMPT CONFIRMATION LIGHT, AS PER PLAN
)	Ź					

					SHEE 7	NUM.				PA	RT.	TTCAA	ITEM	GRAND	/ / / / / / /	DESCRIPTION
FFICE CALCS	13	15	16	17	18	21	22			· · · · · · /	02/SAF/13	- · - · · ·	EXT	TOTAL	UNIT	DESCRIPTION SHEE NO
7.1200												3				STRUCTURE OVER 20 FOOT SPAN
												<u>}</u>				STRUCTURE CUY-077-0479 GENERAL SUMMARY 171
												3				
					50					50	-	301	56000	50	CY	MAINTENANCE OF TRAFFIC ASPHALT CONCRETE BASE, PG64-22, (449)
					00							$\frac{1}{2}$	30000	00	01	ASITIALI CONCILIL BASE, 1001 22, (110)
					50					50		304	20000	50	CY	AGGREGATE BASE
					200					200	-	407	20000	200	GAL	NON-TRACKING TACK COAT
+		275								275) 410	12000	275	CY	TRAFFIC COMPACTED SURFACE, TYPE A OR B
					60					60	-	441	10000	60	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446), PG64-22
					00					00 (2 441	10000	00	U /	ASITIALT CONCINETE SUM ACE COUNSE, THE 1, (440), 1604-22
					200					200		614	11110	200	 	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE WORK ZONE TRAFFIC SIGNAL 18
					2	120				120		SPECIAL 614	61411300 11630	120		WORK ZONE TRAFFIC SIGNAL18INCREASED BARRIER DELINEATION
						2				2		614	12380	2	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)
							LS			LS	, ,	614	12420	LS		DETOUR SIGNING
				3						3		614	12500	3	EACH	REPLACEMENT SIGN
				50		20				50		614	13000	50		ASPHALT CONCRETE FOR MAINTAINING TRAFFIC
						22 22				22		614 614	13310 13350	22 22		BARRIER REFLECTOR, TYPE 1, ONE-WAY OBJECT MARKER, ONE WAY
~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~~	·····		<b>X</b>	)			~~~~	
			6							_	6	614 614	18000 18000	6		MAINTAINING TRAFFIC, MISC.: SHOULDER CLOSURE IR-7716MAINTAINING TRAFFIC, MISC.: TEMPORARY CLOSURE IR-7716
			75					uu uu		111/51	7	5014	18601	<u> </u>	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN
						0.04				0.04		2				
						0.04 1.08				0.04	•	614 614	20010 21000	0.04 1.08		WORK ZONE LANE LINE, CLASS I, 6" WORK ZONE CENTER LINE, CLASS I
						1.21				1.21		614	22010	1.21	MILE	WORK ZONE EDGE LINE, CLASS I, 6"
						384 728				384 728	•	614 614	23000 23010	384 728		WORK ZONE CHANNELIZING LINE, CLASS I, 8"  WORK ZONE CHANNELIZING LINE, CLASS I, 12"
						120				120		014	23010	120	1 1	WONN ZONE CHANNELIZING LINE, CLASS 1, 12
						539				539		614	24000	539		WORK ZONE DOTTED LINE, CLASS I
						184 186				184 186		614 614	26000 27010	184 186		WORK ZONE STOP LINE, CLASS I WORK ZONE CROSSWALK LINE, CLASS I, 12"
						18				18		614	30000	18		WORK ZONE ARROW, CLASS I
										15	<u>.</u>	615	10000	LS		ROADS FOR MAINTAINING TRAFFIC
					1,196					1,196		615	25000	1,196	<b>!</b>	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B
		70								70	•	616	10000	70	MGAL	WA TER
		70								70		010	10000	70	WOAL	WATEN
					30					30	•	617 617	10100 25000	30	CY MGAL	COMPACTED AGGREGATE WATER
					1					1	· ·	017	23000	T T	MGAL	WATER
						1,100				1,100		622	41100	1,100	FT	PORTABLE BARRIER, UNANCHORED
					1					1	•	642	00300	1	MILE	CENTER LINE, TYPE 1
											•		10000			INCIDENTALS
										LS	•	108	10000	LS		CPM PROGRESS SCHEDULE (SEE PROPOSAL NOTE)
				LS						LS		614	11000	LS		MAINTAINING TRAFFIC
	18									18	•	619	16011	18	MNTH	FIELD OFFICE, TYPE B, AS PER PLAN
										LS		623	10001	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN 12
										LS		624	10000	LS		MOBILIZATION
													,,,,,,,			
											•					
												) }				
I										<b>+</b>	•	K				

and