

SEQUENCE OF CONSTRUCTION

PROPOSED IMPROVEMENTS ALONG W. CHURCH STREET OVER RACCOON CREEK SHALL BE COMPLETED UNDER FULL CLOSURE AND DETOUR. ACCESS TO ALL EXISTING DRIVEWAYS AND BUSINESSES SHALL BE MAINTAINED AT ALL TIMES. ALL WORK SHALL BE COMPLETED PRIOR TO NOVEMBER 1ST, 2024.

ONSITE NOTIFICATION

PORTABLE CHANGEABLE MESSAGE SIGNS WILL BE LOCATED NEAR THE PROJECT AREA 14 DAYS PRIOR TO THE START OF CONSTRUCTION TO NOTIFY MOTORISTS AND PEDESTRIANS OF ANTICIPATED CHANGES TO TRAFFIC PATTERNS.

DETOUR TIME LIMITATION

THE CLOSURE SHALL BE LIMITED AS DETAILED ON SHEET 3/77, WINDOW CONTRACT (PN 129).

ITEM 614, MAINTAINING TRAFFIC

THE ROADWAY SHALL NOT BE OPENED TO TRAFFIC UNTIL PERMANENT TRAFFIC CONTROLS ARE IN PLACE, OR UNTIL TEMPORARY TRAFFIC CONTROLS, APPROVED BY THE ENGINEER, ARE INSTALLED. THE CONTRACTOR ASSUMES ALL LIABILITY FOR THE PREMATURE REMOVAL OF TEMPORARY TRAFFIC CONTROLS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REINSTALLATION AND/OR REPLACEMENT OF ALL PERMANENT TRAFFIC CONTROL DEVICES DAMAGED OR REMOVED DURING THE CONSTRUCTION. PERMANENT TRAFFIC CONTROL THAT IS NO LONGER IN CONFLICT WITH TEMPORARY TRAFFIC CONTROL SHALL BE REPLACED IMMEDIATELY. THE CONTRACTOR SHALL ASSUME ALL LIABILITY FOR MISSING, DAMAGED AND IMPROPERLY PLACED TRAFFIC CONTROL DEVICES.

THE CONTRACTOR SHALL PROVIDE A 24 HOUR CONTACT WHO WILL BE RESPONSIBLE FOR MAINTENANCE OF TRAFFIC FOR THE DURATION OF THE PROJECT.

CONSTRUCTION OPERATIONS SHALL NOT BEGIN UNTIL ALL TEMPORARY TRAFFIC CONTROL DEVICES ARE IN PLACE AND APPROVED BY THE ENGINEER AND THE CITY.

ACCESS TO ALL ADJOINING PROPERTIES SHALL BE MAINTAINED AT ALL TIMES. ACCESS FOR MAIL DELIVERY, EMERGENCY AND SERVICE VEHICLES SHALL NOT BE DISRUPTED. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH THE ENGINEER AND THE OWNERS OF THE ADJUTING PROPERTIES IN ADVANCE (10 DAYS) OF ANY OPERATIONS WHICH AFFECT ACCESS.

MAINTENANCE OF ALL TRAFFIC CONTROL DEVICES INCLUDING DRUMS, SIGNS, BARRICADES, SIGN BOARDS, DETOUR SIGNAGE, ETC., SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

FLASHING YELLOW TYPE "B" LIGHTS SHALL BE REQUIRED ON ALL BARRICADES IN USE AT NIGHT. ALL ADVANCE SIGNING SHALL BE EQUIPPED WITH TYPE "A" FLASHING LIGHTS. CONES ARE NOT APPROVED FOR USE AT NIGHT. LIGHTS ARE NOT REQUIRED ON SIGNS IN PLACE DURING DAYLIGHT HOURS.

THE SAFETY OF PEDESTRIAN TRAFFIC SHALL BE CONSIDERED AT ALL TIMES IN THE PROVISION OF TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS AND NOTES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE LIGHTS, SIGNS, BARRICADES, AND OTHER WARNINGS TO PHYSICALLY SEPARATE THE PEDESTRIAN FROM HAZARDS INCIDENTAL TO THE CONSTRUCTION OPERATIONS SUCH AS ANCHOR BOLTS, OPEN EXCAVATIONS, ETC.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED FOR DUST CONTROL PURPOSES:

ITEM 616, WATER 2.5 M. GAL.

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 SHOWN ON THE VEHICULAR DETOUR PLAN. 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 PRECONSTRUCTION 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 PHASES 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 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, MATERIALS, EQUIPMENT, FUELS, LUBRICATING OILS, SOFTWARE, HARDWARE AND INCIDENTALS TO PERFORM THE ABOVE DESCRIBED WORK.

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN 4 SIGN MONTHS ASSUMING 2 PCMS SIGNS FOR 1 MONTH.

ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE ODOT INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF C&MS 614 AND THE ODOT, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

- DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.

IN GENERAL, LEOS SHOULD BE POSITIONED IN ADVANCE OF AND ON THE SAME SIDE AS THE LANE RESTRICTION OR AT THE POINT OF ROAD CLOSURE, AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH SIGNALIZED INTERSECTIONS IN WORK ZONES.

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

ENSURE PROVIDED LEOS HAVE BEEN TRAINED APPROPRIATE TO THE JOB DECISIONS THEY ARE REQUIRED TO MAKE WHILE ON THE PROJECT, IN ACCORDANCE WITH C&MS 614.03.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE WHICH SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

LEOS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 16 HOURS

THE HOURS PAID SHALL INCLUDE ANY MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF AN LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

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MAINTENANCE OF TRAFFIC GENERAL NOTES

LIC-CR804-1.73

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SHEET NUM.					PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
OFFICE CALCS	6	8	9	27	01/S<2/BR/NEWA	EXT	TOTAL				
										STRUCTURE OVER 20 FOOT SPAN (LIC-CR804-0173)	
				LS	LS	202	11003	LS		STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	25
				121	121	202	22900	121	SY	APPROACH SLAB REMOVED	25
				LS	LS	503	11101	LS		COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN	25
				LS	LS	503	21300	LS		UNCLASSIFIED EXCAVATION	
				LS	LS	505	11100	LS		PILE DRIVING EQUIPMENT MOBILIZATION	
				1,750	1,750	507	00600	1,750	FT	14" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN	
				1,955	1,955	507	00650	1,955	FT	14" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED	
				1,620	1,620	507	00700	1,620	FT	16" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN	
				1,800	1,800	507	00750	1,800	FT	16" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED	
				186,967	186,967	509	10000	186,967	LB	EPOXY COATED REINFORCING STEEL	
				50	50	510	09951	50	EACH	DOWEL HOLES WITH CEMENT GROUT, AS PER PLAN	26
				531	531	511	34446	531	CY	CLASS QC2 CONCRETE WITH QC/OA, BRIDGE DECK	
				2	2	511	33500	2	EACH	SEMI-INTEGRAL DIAPHRAGM GUIDE	
				214	214	511	40512	214	CY	CLASS QC1 CONCRETE WITH QC/OA, PIER ABOVE FOOTINGS	
				123	123	511	44112	123	CY	CLASS QC1 CONCRETE WITH QC/OA, ABUTMENT NOT INCLUDING FOOTING	
				209	209	511	46512	209	CY	CLASS QC1 CONCRETE WITH QC/OA, FOOTING	
				1,552	1,552	512	10050	1,552	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)	
				38	38	512	33000	38	SY	TYPE 2 WATERPROOFING	
				12	12	515	15080	12	EACH	DRAPED STRAND PRESTRESSED CONCRETE BRIDGE I-BEAM MEMBERS, LEVEL 3, TYPE WF42-49, (LENGTH = 89'-11")	
				6	6	515	15080	6	EACH	DRAPED STRAND PRESTRESSED CONCRETE BRIDGE I-BEAM MEMBERS, LEVEL 3, TYPE WF42-49, (LENGTH = 60'-2"), TYPE WF42-49, (LENGTH = 60'-2")	
				35	35	515	20000	35	EACH	INTERMEDIATE DIAPHRAGMS	
				36	36	516	13601	36	SF	1" PREFORMED EXPANSION JOINT FILLER, AS PER PLAN	26
				169	169	516	13901	169	SF	2" PREFORMED EXPANSION JOINT FILLER, AS PER PLAN	26
				114	114	516	14020	114	FT	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL	
				12	12	516	44301	12	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (12"x22"x4.148" ELASTOMERIC PAD) WITH 18"x40"x1.5" STEEL LOAD PLATE, 18"x23"x1.5" STEEL LOAD PLATE WITH HPI6X141 RISER	38
				6	6	516	44301	6	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (12"x22"x4.148" ELASTOMERIC PAD) WITH 14"x40"x1.75" STEEL LOAD PLATE	38
				6	6	516	44301	6	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (12"x22"x4.148" ELASTOMERIC PAD) WITH 14"x40"x2.0" STEEL LOAD PLATE	38
				6	6	516	44301	6	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (12"x22"x4.148" ELASTOMERIC PAD) WITH 14"x40"x2.5" STEEL LOAD PLATE	38
				6	6	516	44301	6	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (12"x22"x4.148" ELASTOMERIC PAD) WITH 14"x40" BEVELED STEEL LOAD PLATE	38
				601	601	517	70001	601	FT	RAILING (TWIN STEEL TUBE), AS PER PLAN	26
				101	101	518	21200	101	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
				140	140	518	40000	140	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	
				75	75	518	40011	75	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS, AS PER PLAN	26
				4	4	523	20000	4	EACH	DYNAMIC LOAD TESTING	
				237	237	526	25000	237	SY	REINFORCED CONCRETE APPROACH SLABS (T=15")	
				95	95	526	90010	95	FT	TYPE A INSTALLATION	
				105	105	601	27000	105	CY	DUMPED ROCK FILL, TYPE C	23
				823	823	601	32010	823	CY	ROCK CHANNEL PROTECTION, TYPE A WITH AGGREGATE FILTER	
				20	20	608	53020	20	SF	DETECTABLE WARNING	
										MAINTENANCE OF TRAFFIC	
	16	LS	LS		16	614	11110	16	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	6
					LS	614	12420	LS		DETOUR SIGNING	
	4				4	614	18601	4	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	6
	2.5				2.5	616	10000	2.5	MGAL	WATER	
										INCIDENTALS	
	12	LS			LS	614	11000	LS		MAINTAINING TRAFFIC	
	LS				12	619	16010	12	MNTH	FIELD OFFICE, TYPE B	
	LS				LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
	LS				LS	624	10000	LS		MOBILIZATION	

GENERAL SUMMARY

LIC-CR804-1.73

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ESTIMATED QUANTITIES					CALCULATED BY: MJR			CHECKED BY: RMW	
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUT.	PIERS	SUPER.	GEN.	SHEET #
202	11003		LS	STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN					3/40
202	22900	121	SY	APPROACH SLAB REMOVED				121	3/40
503	11101		LS	COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN					4/40
503	21300		LS	UNCLASSIFIED EXCAVATION					
505	11100		LS	PILE DRIVING EQUIPMENT MOBILIZATION					
507	00600	1750	FT	14" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN	1750				
507	00650	1955	FT	14" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED	1955				
507	00700	1620	FT	16" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN		1620			
507	00750	1800	FT	16" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED		1800			
509	10000	186,967	LB	EPOXY COATED REINFORCING STEEL	18,082	56,124	112,341	420	
510	09951	50	EACH	DOWEL HOLES WITH CEMENT GROUT, AS PER PLAN		50			4/40
511	34446	531	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK			531		4/40
511	33500	2	EACH	SEMI-INTEGRAL DIAPHRAGM GUIDE	2				
511	40512	214	CY	CLASS QC1 CONCRETE WITH QC/QA, PIER ABOVE FOOTINGS		214			
511	44112	123	CY	CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT NOT INCLUDING FOOTING	123				
511	46512	209	CY	CLASS QC1 CONCRETE WITH QC/QA, FOOTING	114	95			
512	10050	1552	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)	77	380	1095		
512	33000	38	SY	TYPE 2 WATERPROOFING	38				
515	15080	12	EACH	DRAPED STRAND PRESTRESSED CONCRETE BRIDGE I-BEAM MEMBERS, LEVEL 3, TYPE WF42-49, (LENGTH = 89'-11")			12		
515	15080	6	EACH	DRAPED STRAND PRESTRESSED CONCRETE BRIDGE I-BEAM MEMBERS, LEVEL 3, TYPE WF42-49, (LENGTH = 60'-2")			6		
515	20000	35	EACH	INTERMEDIATE DIAPHRAGMS			35		
516	13601	36	SF	1" PREFORMED EXPANSION JOINT FILLER, AS PER PLAN	34		2		4/40
516	13901	169	SF	2" PREFORMED EXPANSION JOINT FILLER, AS PER PLAN	169				4/40
516	14020	114	FT	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL	114				
516	44301	12	EA	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (12"x22"x4.148" ELASTOMERIC PAD) WITH 18"x40"x1 1/2" STEEL LOAD PLATE, 18"x23"x1 1/2" STEEL LOAD PLATE AND HP16X141 RISER			12		16/40
516	44301	6	EA	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (12"x22"x4.148" ELASTOMERIC PAD) WITH 14"x40"x1 3/4" STEEL LOAD PLATE			6		16/40
516	44301	6	EA	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (12"x22"x4.148" ELASTOMERIC PAD) WITH 14"x40"x2" STEEL LOAD PLATE			6		16/40
516	44301	6	EA	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (12"x22"x4.148" ELASTOMERIC PAD) WITH 14"x40"x2 1/2" STEEL LOAD PLATE			6		16/40
516	44301	6	EA	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (12"x22"x4.148" ELASTOMERIC PAD) WITH 14"x40" BEVELED STEEL LOAD PLATE			6		16/40
517	70001	601	FT	RAILING (TWIN STEEL TUBE), AS PER PLAN			601		4/40
518	21200	101	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC				101	
518	40000	140	FT	6" PERFORATED CORRUGATED PLASTIC PIPE				140	
518	40011	75	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS, AS PER PLAN				75	4/40
523	20000	4	EACH	DYNAMIC LOAD TESTING	2	2			
526	25000	237	SY	REINFORCED CONCRETE APPROACH SLABS (T=15")				237	
526	90010	95	FT	TYPE A INSTALLATION				95	
601	27000	105	CY	DUMPED ROCK FILL, TYPE C				105	
601	32010	823	CY	ROCK CHANNEL PROTECTION, TYPE A WITH AGGREGATE FILTER				823	
608	53020	20	SF	DETECTABLE WARNING				20	

DESIGN AGENCY: **EMH**

DATE: 10/23/22

REVIEWED: CAS

STRUCTURE FILE NUMBER: 4560079

DRAWN: MJR

REVISER: -

DESIGNED: MJR

CHECKED: TDA

ESTIMATED QUANTITIES

BRIDGE NO. LIC-CR804-0173

W. CHURCH STREET OVER RACCOON CREEK

LIC-CR804-1.73

PID No. 109321

5/40

27/77