	SHEET NUM.								PA	IRT.	ITEM	ITEM	GRAND	UNIT						
6	8	61	62	63	64	65	66	67	72	73	74	75	105	01/SAF/21	02/NHS/05		EXT	TOTAL	UNIT	
														LS		201	11001	LS		CLEARING AND GRUBBI
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		2,853	2,174	4,236				7,012						7,012 9,263		202 202	23000 30000	7,012 9,263	SY SF	PAVEMENT REMOVED WALK REMOVED
		2,000	16	7,200										16		202	30600	16	SY	CONCRETE MEDIAN RE
				74										74		202	30800	74	SY	TRAFFIC ISLAND REM
		945	1,087	1,274										3,306		202	32000	3,306	FT	CURB REMOVED
		54												54		202	32500	54	FT	CURB AND GUTTER RE
					2,107 3,105	1,709 424								1,908 1,765	1,908 1,764	202 202	35100 35200	3,816 3,529	FT FT	PIPE REMOVED, 24" A PIPE REMOVED, OVEF
		37.5			5,105	424								37.5	1,704	202	38000	37.5	FT	GUARDRAIL REMOVED
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		50	47	12	8	7								109 15		SPECIAL 202	20252990 58000	109 15	EACH EACH	PARKING BLOCK REMO MANHOLE REMOVED
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						30								30	10	SPECIAL	20270000	30	FT	FILL AND PLUG EXIST
					88									88		SPECIAL	20270000	88	FT	FILL AND PLUG EXIST
		14	2	2										18		202	98100	18	EACH	REMOVAL MISC.: BOL
			1	1										2		202	98100	2	EACH	REMOVAL MISC.: BUS
		6		2										8		202	98100	8	EACH	REMOVAL MISC.: BEN
		3		1										4		202	98100	4	EACH	REMOVAL MISC.: BRIG
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			36											36		202	98200	36	FT	REMOVAL MISC.: TIME
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			29											29		202	98400	29	Sr	REMOVAL MISC.: PAVE
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	8													8		659	35000	8	MGAL	WATER
														LS LS		832 832	15000 15002	LS LS		STORM WATER POLLU STORM WATER POLLU
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	2,800														2,800	SPECIAL	69065000	2,800	TON	WORK INVOLVING NON
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DESCRIPTION	SEE SHEET NO.	CALCULATED LZS CHECKED GKB
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TROLEUM CONTAMINATED SOIL N-REGULATED WATER	<u>8</u>	
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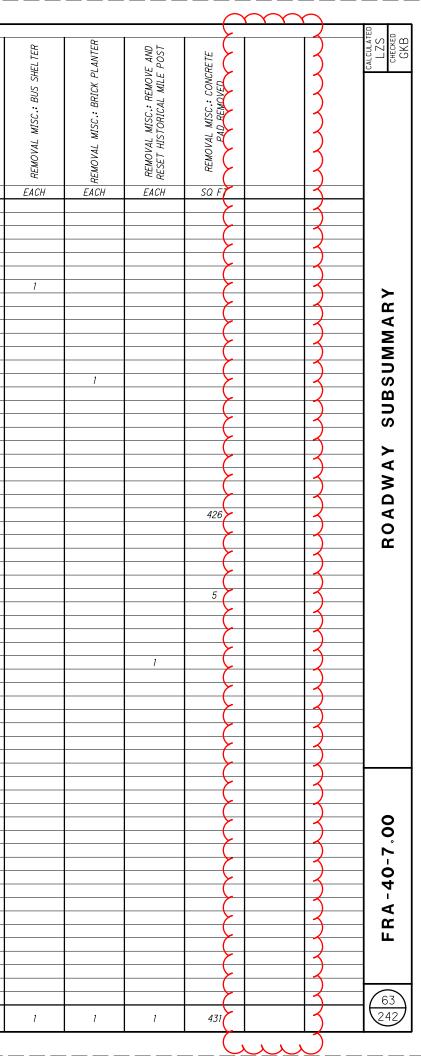
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REF. NO.	SHEET NO.	STA	SIDE	WALK REMOVED	TRAFFIC ISLAND REMOVED	CURB REMOVED			REMOVAL MISC.:WHITE CASTLE SIGN	SPECIAL - PARKING BLOCK REMOVED	REMOVAL MISC.: WOOD POST	REMOVAL MISC.: BOLLARD	REMOVAL MISC.: BENCH	
	-	FROM	ТО	_	SQ FT	SQ YD	FT			EACH	EACH	EACH	EACH	EA
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RC-101	84	420+68.00	420+86.00	LT	242									
RC-102	84	421+28.50	423+36.00	LT			200		 					_
RC-103	84	423+26.00	423+47.50	LT			80							
RC-104	84	423+61.50	423+67.00	LT			23							
RC-105	84	424+27.00	424+38.50	LT			35							
RC-106	84	424+28.00	424+37.00	LT	154									
DC 107	0.4	424+76.00	424+97.50	1 T	428		76		 					
RC-107 RC-108	84 85	425+56.00	427+50.00	LT LT	1406		/0							-
RC-109	85	425+64.00	427+50.00	LT	1100		233							
RC-110	84	420+46.40	420+70.88	LT		28	74							
RC-111	84	419+53.10	419+89.27	LT		46	105							-
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HE EVENT THAT THE EXISTING MONUMENT IS DAMAGED DURING REMOVAL AND RESETTING, WONUMENT CONFORMING TO THE FOLLOWING SPECIFICATION SHALL BE PROVIDED.	1.8 SCHEDULING
I SIL CONCRETE MISC.: CAST STONE HISTORICAL MILE MARKER	A. SCHEDULE AND COORDINATE PRODUCTION AND DELIVERY OF CAST STONE COMPONENTS WITH UNIT MASONRY WORK TO OPTIMIZE ON-SITE INVENTORY AND
T 1 - GENERAL	TO AVOID DELAYING THE WORK.
SECTION INCLUDES	PART 2 - PRODUCTS
A. CAST STONE MASONRY.	2.1 MANUFACTURER
RELATED SECTIONS	A. LIST MFR'S: CONTRACTOR TO PROVIDE RECOMMENDATION.
A. SECTION 04 0513 MASONRY MORTAR (MASONRY MORTARING).	2.2 CAST STONE MASONRY
B. SECTION 04 0516 MASONRY GROUT (MASONRY GROUTING).	A. CAST STONE: 1. COMPRESSIVE STRENGTH: ASTM C 1364.
C. SECTION 04 0519 MASONRY ANCHORAGE AND REINFORCEMENT (MASONRY ANCHORAGE AND REINFORCING).	2. ABSORPTION, COLD WATER: ASTM C 136'1. 3. LINEAR SHRINKAGE: ASTM C 1364.
D. SECTION 04 2000 MASONRY UNITS (UNIT MASONRY).	B. SURFACE TEXTURE: ASTM C 1364.
E. SECTION 07 9000 JOINT SEALERS (JOINT PROTECTION).	C. COLOR AND FINISH: ROUGH ROCK FACED FINISH TO MATCH EXISTING HISTORICAL ROUTE 40 MARKERS CURRENTLY LOCATED ALONG BROAD STREET.
REFERENCES A. ASTM C 150 STANDARD SPECIFICATION FOR PORTLAND CEMENT.	D. COLOR AND FINISH: ROUGH ROCK FACED FINISH TO MATCH EXISTING HISTORICAL ROUTE 40 MARKERS CURRENTLY LOCATED ALONG BROAD STREET.
B. ASTM C 1116 STANDARD SPECIFICATION FOR FIBER-REINFORCED CONCRETE AND SHOTCRETE.	1. MFR'S CAST STONE COLOR NO.: SUBMIT SHOP DRAWING. 2. MATCH COLOR: SUBMIT COLOR AND TEXTURE SAMPLE.
C. ASTM C 1364 STANDARD SPECIFICATION FOR ARCHITECTURAL CAST STONE.	E. PERMISSIBLE VAR/A TION IN COLOR: 1. TOTAL COLOR DIFFERENCE: ASTM C 1364, 6 UNITS.
D. CAST STONE INSTITUTE STANDARD SPECIFICATION (WWW.CASTSTONE.ORG).	2. HUE DIFFERENCE: ASTM C 1364, 2 UNITS.
<u>DEFINITIONS</u>	2.3 CAST STONE MATERIALS
A. CAST STONE: HIGHL Y REFINED ARCHITECTURAL CONCRETE STONE PRODUCT MANUFACTURED TO SIMULA TE FINE GRAIN TEXTURE OF NATURAL STONE.	A. PORTLAND CEMENT: ASTM C 150, TYPE I, WHITE OR GRAY AS REQUIRED TO MATCH SPECIFIED COLOR.
SUBMITTALS	B. COARSE AGGREGATE: ASTM C 1364. GRANITE, OUARTZ, OR LIMESTONE.
A. COMPLY WITH SECTION OI 3300 SUBMITTAL PROCEDURES.	C. FINE AGGREGATE: ASTM C 1364. NATURAL OR MANUFACTURED SANOS.
B. PRODUCT DATA: SUBMIT MANUFACTURER'S PRODUCT DATA.	D. COLORING PIGMENTS: ASTM C 1364. INORGANIC IRON OXIDES.
C. SHOP DRAWINGS: SUBMIT MANUFACTURER'S SHOP DRAWINGS INCLUDING	E. CHEMICAL ADMIXTURES: ASTM C 1364.
PROFILES, CROSS SECTIONS, REINFORCEMENT, EXPOSED FACES, ARRANGEMENT OF JOINTS, ANCHORING METHODS, ANCHORS, ANNOTATION OF COMPONENTS,	F. WATER: POTABLE.
AND THEIR LOCATIONS IN PROJECT AS INDICATED ON THE DRAWINGS.	G. REINFORCEMENT: WHERE REOU/RED BY ASTM C 1364. (GALVANIZED) (EPOXY COATED).
D. VERIFICATION SAMPLES: SUBMIT PIECES OF ACTUAL CAST STONE COMPONENTS, 12 INCHES f305 MMJ SOUARE, ILLUSTRATING RANGE OF COLOR AND TEXTURE TO BE ANTIC/PA TED IN COMPONENTS FURNISHED FOR PROJECT.	H. FIBER REINFORCEMENT: ASTM C 1116, FIBROUS NYLON.
E. TEST RESULTS: SUBMIT MANUFACTURER'S TEST RESULTS OF CAST STONE	2.4 MORTAR MATERIALS
COMPONENTS MADE PREV/OUSL Y BY MANUFACTURER USING MATERIALS FROM SAME SOURCES PROPOSED FOR USE IN PROJECT.	SPECIFIER NOTES: SPECIFY THE MORTAR.
QUALITY ASSURANCE	A. MORTAR: [CAST STONE INSTITUTE STANDARD SPECIFICATION] [AS SPECIFIED IN SECTION 04 05131.]
A. MANUFACTURER QUALIFICATIONS: A CAST STONE INSTITUTE CERTIFIED	2.5 ACCESSORIES
PRODUCER, WITH A MINIMUM OF 10 YEARS OF EXPERIENCE IN PRODUCING CAST STONE OF TYPES REQUIRED FOR PROJECT.	A. ANCHOR PINS AND DOWELS SHOULD 80 STAINLESS STEEL. SHELF ANGLES AND
1. PLANT SHALL HAVE ADEQUATE CAPACITY TO FURNISH QUALITY, SIZES, AND QUANTITY OF CAST STONE REOUIRED WITHOUT DELAYING PROGRESS OF THE	OTHER SIMILAR STRUCTURAL ITEMS SHOULD BE GALVANIZED. CONSULT CAST STONE MFR. FOR ASSISTANCE IN SPECIFYING ANCHORS FOR THE SPECIFIC
WORK. 2. PRODUCTS PREVIOUSLY PRODUCED BY PLANT AND EXPOSED TO WEATHER SHALL EXHIBIT SATISFACTORY APPEARANCE.	APPLICATION. B. ANCHORS: NON-CORROSIVE TYPE, SIZED FOR CONDITIONS. (BRASS)
B. STANDARDS: UNLESS OTHERWISE SPECIFIED IN THIS SECTION, CAST STONE	(HOT-DIP GALVANIZED STEEL) (TYPE 304 STAINLESS STEEL).
SHALL COMPLY WITH THE FOLLOWING: 1. ASTM C 1364.	C. SEALANTS: AS SPECIFIED IN SECTION 01 9000.
2. CAST STONE INSTITUTE STANDARD SPECIFICATION. (LATEST EDITION) MOCK-UPS ALLOW THE ARCHITECT TO VERIFY:	D. CLEANER: 1. MANUFACTURER'S STANDARD-STRENGTH, GENERAL-PURPOSE CLEANER
a. THE COLOR AND TEXTURE OF THE CAST STONE. b. THE FIT OF ADJACENT COMPONENTS.	DESIGNED FOR REMOVING MORTAR AND GROUT STAINS, EFFLORESCENCE, AND OTHER CONSTRUCT/ON STAINS FROM NEW MASONRY SURFACES WITHOUT
c. THE QUALITY OF CONSTRUCTION. d. THE QUALITY OF REPAIR METHODS, IF NEEDED.	DISCOLOR/NG OR DAMAGING MASONRY SURFACES. 2. APPROVED FOR INTENDED USE BY CAST STONE MANUFACTURER AND
C. MOCK-UPS: PROVIDE FULL SIZE CAST STONE COMPONENTS FOR INSTALLATION IN MOCK-UP OF CAST STONE MARKER. APPROVED MOCK-UPS WILL BECOME	APPROVED BY CLEANER MANUFACTURER FOR USE ON CAST STONE AND ADJACENT MASONRY MATERIALS.
STANDARD FOR APPEARANCE AND WORKMANSHIP.	2.6 FABRICATION A. SHAPES: UNLESS OTHERWISE IND/CA TED ON THE DRAWINGS, PROVIDE:
DELIVERY, STORAGE, AND HANDLING	1. SUITABLE WASH ON EXTERIOR SILLS, COPINGS, PROJECTING COURSES, AND COMPONENTS WITH FXPOSED TOP SURFACES.
A. DELIVERY: 1. DELIVER CAST STONE COMPONENTS SECURED TO SHIPPING PALLETS AND PROTECTED FROM DAMAGE ANO DISCOLORATION.	2. DRIPS ON PROJECTING COMPONENTS, WHEREVER POSSIBLE.
2. PROTECT CORNERS FROM DAMAGE.	B. REINFORCEMENT: 1. AS REOUIRED TO WITHSTAND HAND//NC AND STRUCTURAL STRESSES.
3. NUMBER EACH PIECE INOIVIOUALLY TO MATCH SHOP DRAWINGS AND SCHEDULES.	2. COMPLY WITH ASTM C 1364. 3. MINIMUM OF 0.25 PERCENT OF CROSS-SECTIONAL AREA OF PANELS WHICH
B. STORAGE: 1. STORE CAST STONE COMPONENTS AND INSTALLATION MATERIALS IN	EXCEED 24 INCHES (600 MM) IN WIDTH. 4. MINIMUM REINFORCING COVER: TWICE DIAMETER OF REINFORCING BARS.
ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. 2. STORE CAST STONE COMPONENTS ON PALLETS WITH NONSTAINING,	5. UNITS LESS THAN 24 INCHES IN EITHER TRANSVERSE OR LONGITUDINAL DIRECTION MAY BE UNREINFORCED IN THAT DIRECTION IF STRUCTURAL
WATERPROOF COVERS.	CONDITIONS ALLOW.
3. VENTILATE UNDER COVERS TO PREVENT CONDENSATION. 4. PREVENT CONTACT WITH DIRT.	C. CURING: 1. CURE CAST STONE COMPONENTS IV/TH A DIRECT-FIRED STEAM GENERATOR
C. HANDLING: PROTECT CAST STONE COMPONENTS DURING HANDLING AND	AT A MINIMUM TEMPERATURE OF 105 DEGREES F (41 DEGREES C) FOR A MINIMUM OF 6 HOURS, WITHIN 12 HOURS OF FABRICATION.

TO PROVIDE RECOMMENDATION. PART 3 - EXECUTION ASTM C 1364 ER: ASTM C 136'1. 3.1 1 C 1364. ROCK FACED FINISH TO MATCH EXISTING HISTORICAL TLY LOCATED ALONG BROAD STREET. ROCK FACED FINISH TO MATCH EXISTING HISTORICAL NTLY LOCATED ALONG BROAD STREET. OR NO.: SUBMIT SHOP DRAWING. COLOR AND TEXTURE SAMPLE. 3.2 N COLOR: CE: ASTM C 1364, 6 UNITS. 1364. 2 UNITS. B. SETTING: 150, TYPE I, WHITE OR GRAY AS REQUIRED TO C 1364. GRANITE, OUARTZ, OR LIMESTONE. 1364. NATURAL OR MANUFACTURED SANOS. C 1364. INORGANIC IRON OXIDES. ТМ С 1364. OU/RED BY ASTM C 1364. (GALVANIZED) TM C 1116, FIBROUS NYLON. TITUTE STANDARD SPECIFICATIONJ LAS SPECIFIED SHOULD 8¢ STAINLESS STEEL. SHELF ANGLES AND ITEMS SHOULD BE GALVANIZED. CONSULT CAST CE IN SPECIFYING ANCHORS FOR THE SPECIFIC TYPE, SIZED FOR CONDITIONS, (BRASS) L) (TYPE 304 STAINLESS STEEL). SECTION 01 9000. ARD-STRENGTH, GENERAL-PURPOSE CLEANER MORTAR ANO GROUT STAINS. EFFLORESCENCE. ON STAINS FROM NEW MASONRY SURFACES WITHOUT 3.4 REPAIR NG MASONRY SURFACES. D USE BY CAST STONE MANUFACTURER AND ANUFACTURER FOR USE ON CAST STONE AND RIALS. IND/CA TED ON THE DRAWINGS, PROVIDE: RIOR SILLS, COPINGS, PROJECTING COURSES, AND ED TOP SURFACES. OMPONENTS, WHEREVER POSSIBLE. 3.5 AND HANDIINC AND STRUCTURAL STRESSES. NT OF CROSS-SECTIONAL AREA OF PANELS WHICH 3.6 CLEANING MM) IN WIDTH. COVER: TWICE DIAMETER OF REINFORCING BARS. CHES IN EITHER TRANSVERSE OR LONGITUDINAL NFORCED IN THAT DIRECTION IF STRUCTURAL ONENTS IV/TH A DIRECT-FIRED STEAM GENERATOR CURFD.

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<u>ITEM 511</u>

PART 1 -

INSTALLATION TO PREVENT CHIPPING, CRACKING, OR OTHER DAMAGE.

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