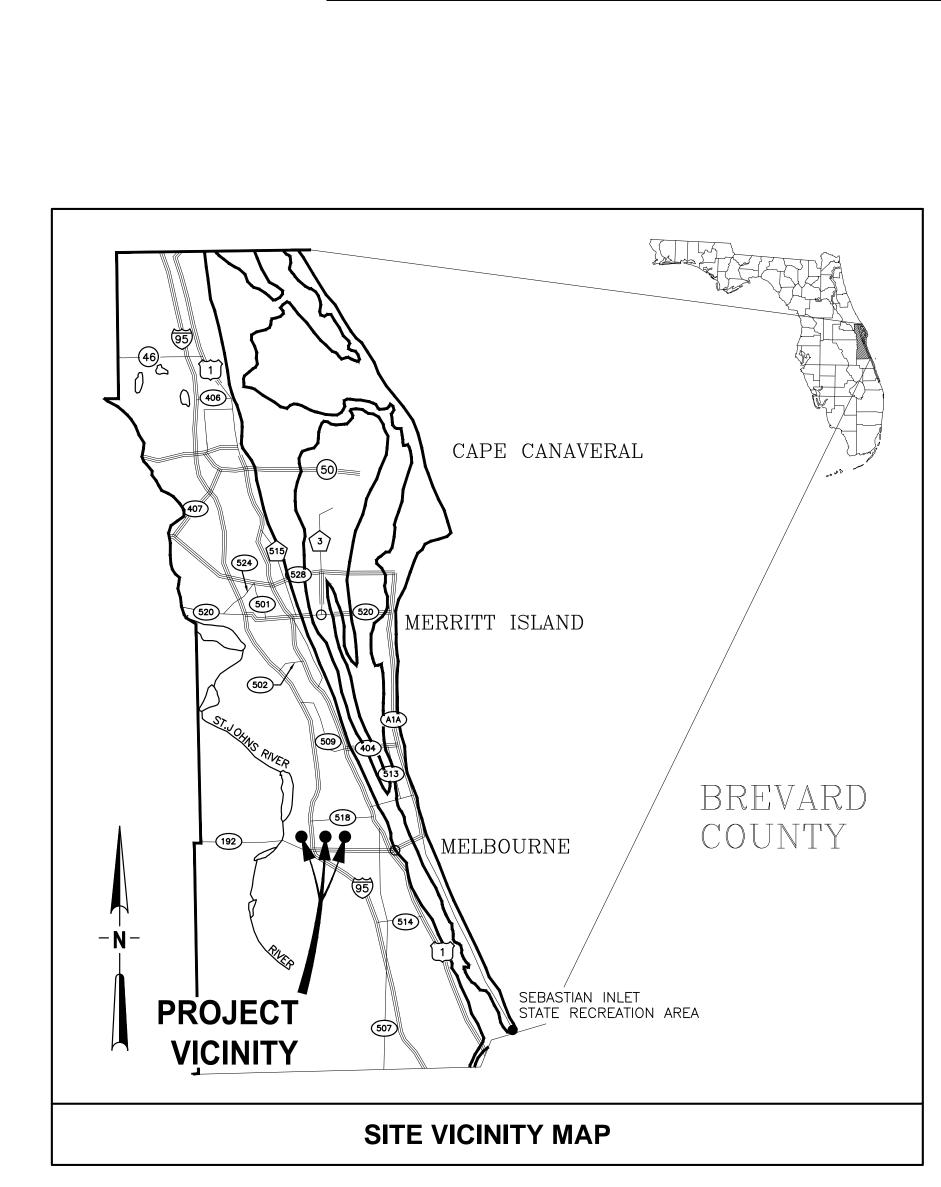
CONTRACT NO: 32116 PROJECT NO: 19750-066-01



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CRANE CREEK M-1 CANAL FLOW RESTORATION

PREPARED FOR:

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

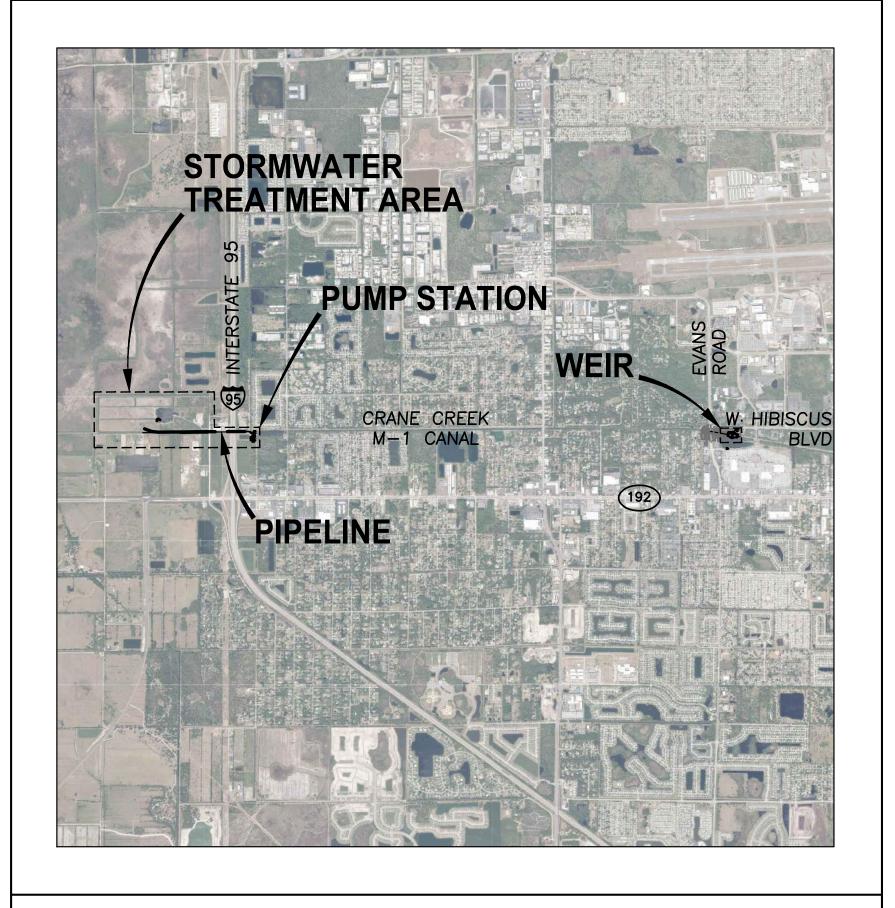


PREPARED BY:



30 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-582

Always call 811 two full business days before you dig to have underground utilities located and marked. Sunshine 811.com



A	12/20/19	REVISED PER COWM	RK	RK
LTR.	DATE	REVISIONS	BY	APPRD.

CITY OF MELBOURNE PROJECT NUMBER: IF 20-01 20RW0026² BREVARD COUNTY ROW PERMIT NUMBER:

BREVARD COUNTY RIGHT–OF–WAY REVIEW AND APPROVAL DOES NOT CONSTITUTE COUNTY APPROVAL OR REVIEW OF ANY PRIVATE PARTY DEED RESTRICTIONS, COVENANTS, PRIVATE EASEMENTS, OR OTHER PRIVATE AGREEMENTS. ANY CHANGES TO THE APPROVED MUST BE COORDINATED THROUGH WORKS ENGINEERING PROGRAM. THE APPLICANT ASSUMES THE RISK THAT THE RIGHT-OF-WAY PERMIT MAY REQUIRE ADDITIONAL COUNTY REVIEW INCLUDING ENGINEERING OR OTHER APPLICABLE COUNTY REVIEW PROCESSES SHOULD ANY ACTION TO ENFORCE ANY SUCH RESTRICTIONS REQUIRE REDESIGN OF THE PROJECT

PROJECT LOCATION MAP

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AUGUST 2020

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G5	MECHANICAL LEGEND & PIPE SCHEDULE	D. YOUNG
G6	ELECTRICAL LEGEND	H. DIETRICK
G7	STRUCTURAL GENERAL NOTES	M. THUE
G8	KEY MAP	A. GOODDEN
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C5-2	WEIR SITE PLAN
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M-1 CANAL FLOW RESTORATION R WATER MANAGEMENT DISTRICT

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BID DOCUMENTS

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CERTIFICATE OF AUTHORIZATION #1841	PROJECT NO:	DATE:
APPROVED BY	19750-066-01	AUG 2020
A. GOODDEN	INDEX NO:	dwg no: G2
P.E. # 60097		GΖ

F		8 7	6 5
Í	PLOTTED:	8/5/2020 12:15 PM LUKE HABERMAN	AL NOTES
F	1.	TOPOGRAPHIC SURVEY INFORMATION FOR ALL AREAS EXCEPT THE STA SITE	20. BURNING OF MATERIAL AND/OR DEBRIS IS PROHIBITED WITHIN THE
		WAS PROVIDED BY SOUTHEASTERN SURVEYING AND MAPPING CORPORATION, A REGISTERED PROFESSIONAL LAND SURVEYOR, DATED NOVEMBER 21 2018. THE SURVEYOR'S DRAWINGS ARE INCLUDED IN THIS DRAWING SET. STA SITE TOPOGRAPHIC SURVEY INFORMATION IS LIDAR DATA PROVIDED BY	PROJECT LIMITS. THE CONTRACTOR SHALL LEGALLY DISPOSE OF ALL CLEARED/GRUBBED MATERIAL OFFSITE.
_	2.	BREVARD COUNTY. THE HORIZONTAL DATUM IS BASED ON FLORIDA STATE PLANE EAST, NORTH	21. UNLESS OTHERWISE SPECIFIED ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2020), AND FDOT STANDARD PLANS (2020–21).
		AMERICAN DATUM 1983 (NAD83), 2011 ADJUSTMENT. VERTICAL INFORMATION SHOWN REFERS TO NATIONAL GEODETIC SURVEY (NGS) POINT PID#DG8680 HAVING A RECORDED ELEVATION OF 22.98 FEET (NAVD 88).	22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A STAGING AREA FOR MATERIAL AND EQUIPMENT STORAGE. THIS MAY INCLUDE LOCATING A SITE, OBTAINING PERMITS, AND MAKING THE SITE SUITABLE FOR USE. THE CONTRACTOR SHALL NOT USE RIGHT-OF-WAY FOR STAGING MATERIAL AND EQUIPMENT.
Е	3.	INFORMATION SHOWN HEREIN REPRESENTS CONDITIONS AS THEY EXISTED ON THE SURVEY DATE SHOWN AND CAN ONLY BE CONSIDERED INDICATIVE OF CONDITIONS AT THAT TIME.	23. THE CONTRACTOR SHALL PROVIDE MATERIAL AND CONSTRUCTION TESTING BY A FLORIDA QUALIFIED GEOTECHNICAL TESTING FIRM. ACCEPTANCE TESTING INCLUDES BUT IS NOT LIMITED TO CONCRETE, ROADWAY
GO3.DWG	4.	ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION INCLUDING BUT NOT LIMITED TO SOD, LANDSCAPING, ETC. NEW SOD SHALL MATCH ADAJCENT SOD OR IF NONE IS PRESENT IT SHALL BE A BAHIA/ BERMUDA MIX.	STABILIZATION AND BASE, ASPHALT DENSITY, AND LIMEROCK. 24. AS-BUILT PLANS TO BE PROVIDED BY THE CONTRACTOR TO SJRWMD AND CERTIFIED BY A FLORIDA REGISTERED LAND SURVEYOR.
66-01-6	5.	EXISTING DRAINAGE STRUCTURES WITHIN CONSTRUCTION LIMITS SHALL REMAIN, UNLESS OTHERWISE NOTED.	25. ANY EXISTING FENCING THAT IS DAMAGED OR TEMPORARILY REMOVED DURING CONSTRUCTION MUST BE REPLACED IN—KIND. CONTRACTOR TO COORDINATE WITH PROPERTY OWNER REGARDING ANY FENCE REMOVAL OR
19750-06	6.	EXISTING PAVEMENTS DAMAGED DUE TO CONSTRUCTION ARE TO BE REPLACED IN-KIND AT THE SAME LOCATION, WIDTH, AND GEOMETRY UNLESS OTHERWISE SHOWN IN THE PLANS. CONTRACTOR SHALL	26. FENCE ADJACENT TO I-95 AND FENCE ADJACENT TO ST. JOHNS HERITAGE PARKWAY MUST BE IN PLACE AT ALL TIMES.
GENERAL\1	7	RECONSTRUCT ROADWAY AND DRIVEWAY PAVEMENT TO EXISTING GRADES UNLESS OTHERWISE SPECIFIED. CONTRACTOR WILL REMOVE BURIED OUT OF SERVICE UTILITY LINES WITHIN	27. CONTRACTOR TO COORDINATE REMOVAL OF SALVAGE EQUIPMENT. PROVIDE SJRWMD MINIMUM OF 30 DAYS NOTICE TO REMOVE/RELOCATE EQUIPMENT.
CAD\DWGS\GE	, .	THE LIMITS OF ALL EXCAVATION. THE COST OF THIS WORK WILL BE INCIDENTAL TO AND INCLUDED IN THE COST OF THE WORK BEING PERFORMED WHEN THE LINES ARE ENCOUNTERED.	28. THE CONTRACTOR WILL STABILIZE ALL EARTHWORK TO PREVENT EROSION.
	8.	ALL EXISTING UTILITIES ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED. CONTRACTOR TO PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES	29. ALL FLAT BERM TOPS WILL BE STABILIZED WITH SEED. 30. ALL SLOPES 4H:1V OR STEEPER SHALL BE STABILIZED WITH STAKED SOD.
NN_DESIGN	9.	PRIOR TO CONSTRUCTION. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS ARE BASED ON	31. CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE DURING ALL PHASES OF CONSTRUCTION. THE EXISTING DRAINAGE SHALL NOT BE BLOCKED OF ADVERSELY AFFECTED BY CONSTRUCTION.
RESTORATION		LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.	City Hall 2240 Minton Road West Melbourne PLOBIDA ELOBIDA ELOBIDA ELOBIDA ELOBIDA ELOBIDA EloBIDA EloBIDA EloBIDA EloBIDA EloBIDA EloBIDA EloBIDA EloBIDA EloBIDA EloBIDA
-1_FLOW_	10.	THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS THROUGH SUNSHINE ONE CALL OF FLORIDA, INC. (1-800-432-4770) TWO BUSINESS DAYS IN ADVANCE OF BEGINNING CONSTRUCTION ON THE JOB SITE.	Development Closeout Checklist
CREEK_M-	11.	THE CONTRACTOR SHALL NOTIFY AND COORDINATE WITH FDOT TO LOCATE UTILITIES AND FDOT FACILITIES WITHIN THE I-95 CORRIDOR.	Complete all required construction inspections.
CRANE CR	12.	CONTRACTOR SHALL NOTIFY SJRWMD IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR OMISSIONS IN CONSTRUCTION PLANS THAT WOULD AFFECT THE CONSTRUCTION OF THE PROJECT.	Submit test results for compaction for pipe backfill, structure backfill (manholes and drainage structures) and for the road structural section (AC pavement and concrete).
-01_	13.	DISPOSAL OF ALL EXCESS EARTHWORK MATERIALS IS THE RESPONSIBILITY OF THE CONTRACTOR. DISPOSAL SITES SHALL BE AS DIRECTED BY SJRWMD, AS THE OWNER.	Submit materials tickets for concrete and AC pavement delivered to the project for public improvements.
PROJECTS\066	14.	CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS OF THE FLORIDA STATE TRENCH SAFETY ACT.	Provide As-builts for water, sewer, drainage, roads and site finish grades (note: city requirements exceed FDEP requirements). Please note that there are specific things the City requires for As-builts that are different that that required by other agencies. See the City's As-built drawing checklist.
	15.	CONTRACTOR SHALL OBTAIN A TEMPORARY DEWATERING PERMIT PRIOR TO ANY DEWATERING ACTIVITIES. CONTRACTOR SHALL SUBMIT DEWATERING PLAN TO SJRWMD FOR APPROVAL. DURING DEWATERING OPERATIONS,	EDEP clearances for water and sewer improvements
50-SJRWMD\	10	CONTRACTOR SHALL NOT DISCHARGE DIRECTLY TO EXISTING WETLAND SYSTEMS, CANALS OR DITCHES.	 Schedule a final construction walk through (submit as-builts prior to scheduling walk through) Prepare bill(s) of sale for public improvements constructed by the developer that are
γ:\1975 Β	16.	CONTRACTOR TO ESTABLISH ALL LINES, GRADES, AND REFERENCE POINTS AS REQUIRED FOR WORK UNDER THIS CONTRACT. ALL PROJECT LAYOUTS SHALL BE DONE USING A PROFESSIONAL SURVEYOR & MAPPER LICENSED IN THE STATE OF FLORIDA.	being transferred to the city (include only the cost of portion transferred). Provide separate accounting for road improvements, drainage improvements, water improvements and wastewater improvements. Bill of sale shall be signed and sealed by
LHABERMAN	17.	CONTRACTOR TO PROVIDE ALL LABOR, INSTRUMENTS, STAKES AND OTHER MATERIALS NECESSARY FOR MARKING AND MAINTAINING ALL LINES AND GRADE.	 Using the cost(s) from above provide a 2 year maintenance bond for 20% of the value, for improvements transferred to the city
PM LHAE		ALL EXISTING TREES OUTSIDE THE GRADING LIMITS ARE TO REMAIN. CONTRACTOR SHALL KEEP ALL SPOILS AND EQUIPMENT OUTSIDE OF THE	Transfer easements for public improvements (min. 20' wide centered on improvements) to the city
12:11		TREE DRIPLINE FOR ALL TREES NOT DIRECTLY AFFECTED BY CONSTRUCTION.	Coordinated submittal of performance bonds, maintenance bonds, and bills of sale with the City Clerk, City Planning Department and City Attorney's office.
SAVED: 8/5/2020	A 12/20/19 LTR. DATE	REVISED PER COWM RK RK CHECKED R KOLLER 730 N	CERTIFICATE OF AUTHORIZATION #1841 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821 AYPINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744-5401 6

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City rial
2240 Minton Road
st Melbourne, FL 32904
Phone: (321) 727-7700
Fax: (321) 768-2390
ww.westmelbourne.org

Development Closeout Checklist



CRANE CREEK M-1 CANAL FLOW RESTORATION ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT

GENERAL NOTES & ABBRE

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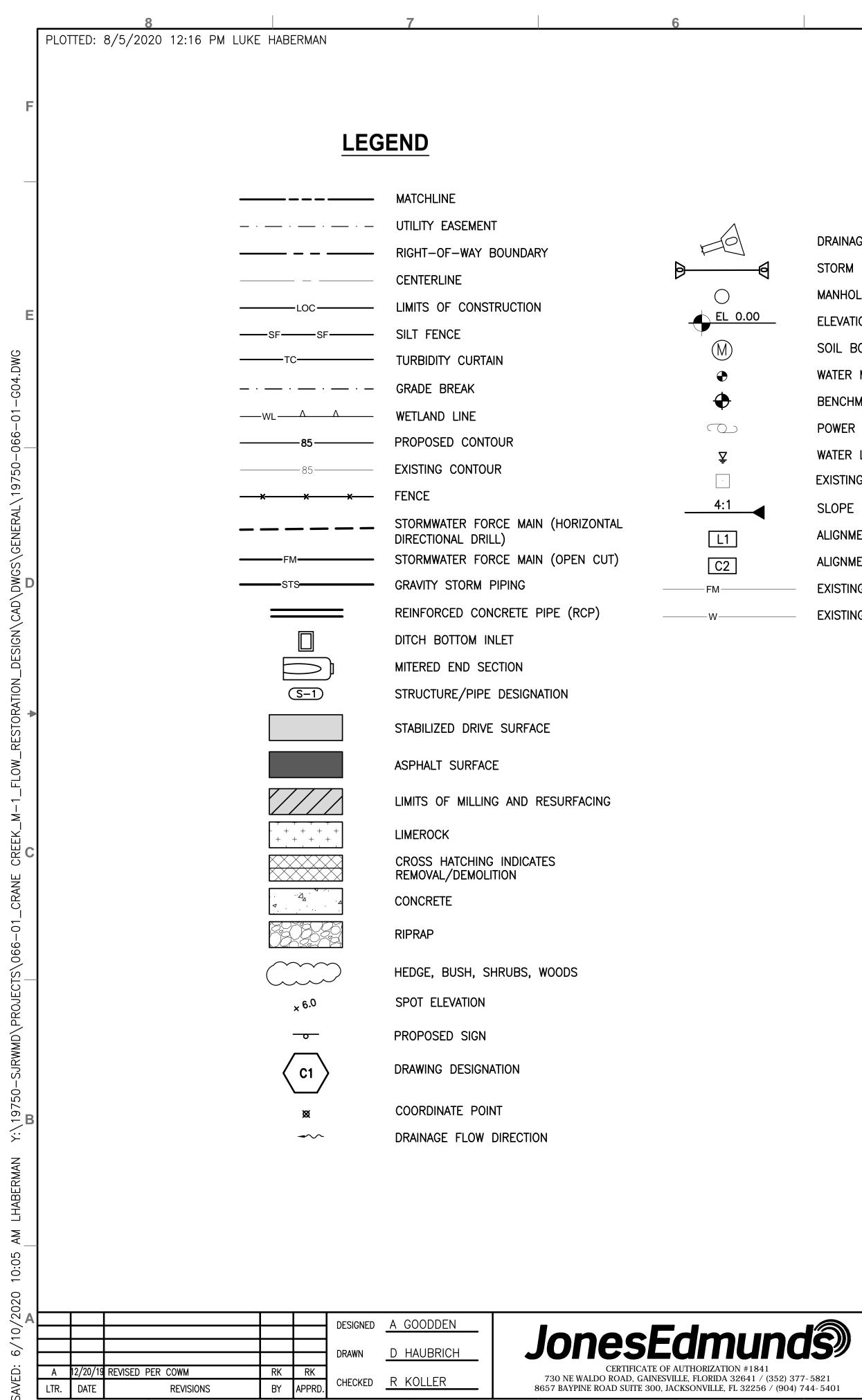
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AIR RELEASE	LB
AMERICAN SOCIETY FOR TESTING AND MATERIALS	LBR
AIR VACUUM	LF
AMERICAN WATER WORKS ASSOCIATION	LiDAR
BLIND	LOC
BUILDING	
	LR
BLIND FLANGE	LWL
BACKFLOW PREVENTOR	M/F
BUTTERFLY VALVE	MÁX
BEST MANAGEMENT PRACTICES	MES
BLOW-OFF	MFR
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BALL VALVE	MIN
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DIAMETER DITCH BOTTOM INLET DUCTILE IRON DIVISION	OSHA PE PI PL P/L
DIAMETER DITCH BOTTOM INLET DUCTILE IRON DIVISION DRAWING	OSHA PE PI PL P/L PP
DIAMETER DITCH BOTTOM INLET DUCTILE IRON DIVISION DRAWING EACH	OSHA PE PI PL P/L
DIAMETER DITCH BOTTOM INLET DUCTILE IRON DIVISION DRAWING EACH ECCENTRIC	OSHA PE PI PL P/L PP
DIAMETER DITCH BOTTOM INLET DUCTILE IRON DIVISION DRAWING EACH ECCENTRIC EACH FACE	OSHA PE PL PL P/L PP PRV PSF
DIAMETER DITCH BOTTOM INLET DUCTILE IRON DIVISION DRAWING EACH ECCENTRIC EACH FACE SUCH AS	OSHA PE PI PL P/L PP PRV
DIAMETER DITCH BOTTOM INLET DUCTILE IRON DIVISION DRAWING EACH ECCENTRIC EACH FACE SUCH AS ELEVATION	OSHA PE PL PL P/L PP PRV PSF PSI
DIAMETER DITCH BOTTOM INLET DUCTILE IRON DIVISION DRAWING EACH ECCENTRIC EACH FACE SUCH AS ELEVATION ELBOW	OSHA PE PL PL P/L PP PRV PSF PSI PV PVC
DIAMETER DITCH BOTTOM INLET DUCTILE IRON DIVISION DRAWING EACH ECCENTRIC EACH FACE SUCH AS ELEVATION	OSHA PE PL PL P/L PP PRV PSF PSI PV PVC PVMT
DIAMETER DITCH BOTTOM INLET DUCTILE IRON DIVISION DRAWING EACH ECCENTRIC EACH FACE SUCH AS ELEVATION ELBOW	OSHA PE PL PL P/L PRV PRV PSF PSI PV PVC PVMT R
DIAMETER DITCH BOTTOM INLET DUCTILE IRON DIVISION DRAWING EACH ECCENTRIC EACH FACE SUCH AS ELEVATION ELBOW EDGE OF PAVEMENT ENGINEER OF RECORD	OSHA PE PL PL P/L PP PRV PSF PSI PV PVC PVMT R RCP
DIAMETER DITCH BOTTOM INLET DUCTILE IRON DIVISION DRAWING EACH ECCENTRIC EACH FACE SUCH AS ELEVATION ELBOW EDGE OF PAVEMENT ENGINEER OF RECORD EDGE OF ROAD	OSHA PE PL PL P/L PP PRV PSF PSI PV PVC PVMT R RCP RED
DIAMETER DITCH BOTTOM INLET DUCTILE IRON DIVISION DRAWING EACH ECCENTRIC EACH FACE SUCH AS ELEVATION ELBOW EDGE OF PAVEMENT ENGINEER OF RECORD EDGE OF ROAD ELLIPTICAL REINFORCED CONCRETE PIPE	OSHA PE PI PL P/L PP PRV PSF PSI PV PVC PVC PVMT R RCP RED REINF
DIAMETER DITCH BOTTOM INLET DUCTILE IRON DIVISION DRAWING EACH ECCENTRIC EACH FACE SUCH AS ELEVATION ELBOW EDGE OF PAVEMENT ENGINEER OF RECORD EDGE OF ROAD ELLIPTICAL REINFORCED CONCRETE PIPE EACH WAY	OSHA PE PL PL P/L PP PRV PSF PSI PV PVC PVMT R RCP RED
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DIAMETER DITCH BOTTOM INLET DUCTILE IRON DIVISION DRAWING EACH ECCENTRIC EACH FACE SUCH AS ELEVATION ELBOW EDGE OF PAVEMENT ENGINEER OF RECORD EDGE OF ROAD ELLIPTICAL REINFORCED CONCRETE PIPE EACH WAY FABRICATED FLORIDA ADMINISTRATIVE CODE FLANGED COUPLING ADAPTER	OSHA PE PI PL P/L PP PRV PSF PSI PV PVC PVMT R RCP RED REINF REQ, REQ'D RF RJ
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			STANDARD STRUCTURE STEEL STORMWATER SYSTEM SQUARE YARD TEMPORARY BENCHM TOTAL HEAD THREADED		F
INVERT LEEVANO INSULATED FLANG IRON PIPE SIZE JOINT POUNDS LIMEROCK BEARIN LINEAR FEET LIGHT DETECTION LIMITS OF CONST LONG RADIUS LOW WATER LEVE MALE/FEMALE MAXIMUM MITERED END SE MANUFACTURER MANHOLE MINIMUM MECHANICAL JOIN MALE NATIONAL NORTH NORTH AMERICAN	GE NG RATIO I AND RANGING TRUCTION EL ECTION	THK TOB TOC TOS TS TYP UE ULC VERT W W/ WM WSE WT WWF YR	THICK TOP OF BERM TOP OF CONCRETE TOE OF SLOPE THICKENED SLAB TYPICAL UTILITY EASEMENT ULTRASONIC LEVEL O VERTICAL WEST WITH WATER MAIN WATER SURFACE ELE WEIGHT WELDED WIRE FABRIO YEAR	VATION	E
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OVERHEAD ELEC ⁻ OUTSIDE STEM &	TRIC & YOKE SAFETY AND HEALTH ATOR/GAUGE	ADMINISTRATION			•
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REDUCING FLANG RESTRAINED JOIN REVOLUTIONS PE RESTRAINED PUS	NT IR MINUTE SH ON JOINT IWATER TREATMENT			INTS	
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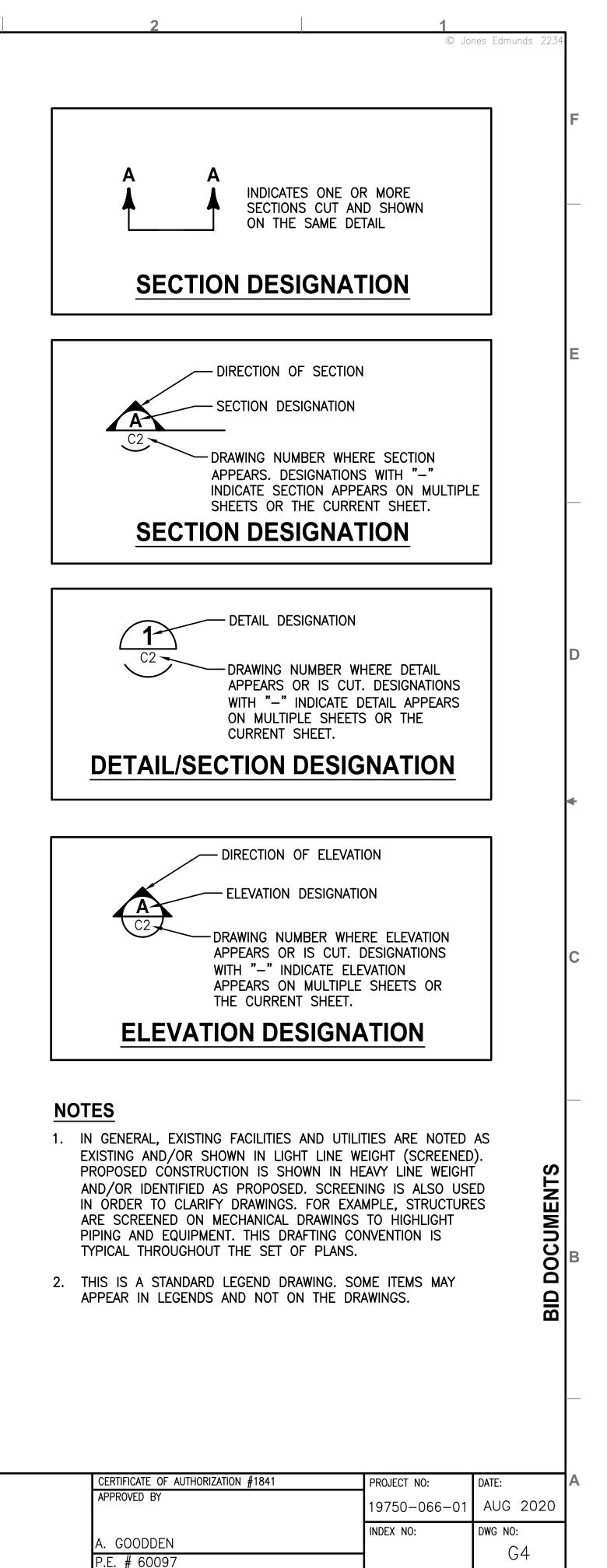
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DRAINAGE PIPE W/MITERED END SECTION STORM PIPE/CULVERT MANHOLE ELEVATION TAG SOIL BORING WATER METER BENCHMARK POWER POLE WATER LEVEL EXISTING CONCRETE MONUMENT, FOUND SLOPE INDICATOR ALIGNMENT LINE DATA ALIGNMENT CURVE DATA EXISTING SANITARY SEWER FORCE MAIN EXISTING POTABLE WATER MAIN

CRANE CREEK M-1 CANAL FLOW RESTORATION ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT

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CIVIL LEGEND



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	,	AN .	PIPING SYMBOLS	
	DOUBLE LINE	SINGLE LINE		DOUE
		-+-+	PIPE	
			WELDED PIPE	
		<u> </u>	FLANGED JOINT	-
		[MECHANICAL JOINT OR RESTRAINED PUSH—ON JOINT	
			FLEXIBLE COUPLING ADAPTER	
			EXPANSION JOINT	Œ
		<u>[</u>	HUB & SPIGOT JOINT	
			BALL JOINT	
		Ħ	FLANGED COUPLING ADAPTER	ш
			W/ THRUST TIES	
			FLEXIBLE COUPLING WITH THRUST TIES	-
			BLIND FLANGE	F
		●	ELBOW UP	
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			TEE UP	
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		-	FEMALE QUICK DISCONNECT FITTING	
			TEMALE QUICK DISCONNECT TITING	
	NOTE:		MALE QUICK DISCONNECT FITTING	
	AND/OR SCREENED. PROPO AS HEAVY—LINED. ABOVE GF SOLID—LINED EXCEPT FOR F	OSED PIPE AND RADE PIPE AND PIPELINE PLANS DRAWINGS AS D		
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	MECHANICAL LEGEND	
LINE	SINGLE LINE	VALVE SYMBOLS

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	MECHA	NICAL LEGEND			© Jones Edmunds 2234
LINE	SINGLE LINE		VALVE SYMBOLS	PIPE SUPPORT SYMBOLS	
	-+	LATERAL UP	GATE SEATED SIDE PLUG	✓ FLANGED PIPE SUPPORT	F
		LATERAL DOWN		U-SHAPED PIPE SUPPORT	
		CONCENTRIC REDUCER	BALL CHECK	PIPE SUPPORT W/ AXIAL LOAD SUPPORT	
	— <u> </u>	ECCENTRIC REDUCER		PIPING DESIGNATION	
	— 	UNION		EXAMPLE: 16"	
	[CAP	PRESSURE RELIEF	sts	E
/ 	<u>_</u>	ANCHOR	\uparrow AIR RELEASE AND/OR VACUUM RELIEF	└ <u>16</u> " <u>STS</u>	
	-+	WYE	REGULATED SIDE HYDRAULIC CONTROL VALVE	NOMINAL PIPE DIAMETER	
		TEE			
		CROSS			
n			M ELECTRIC MOTOR		D
		ELBOW, 90 DEGREE	EH ELECTROHYDRAULIC		
	×	ELBOW, 45 DEGREE			
Þ	-++	ELBOW, 22.5 DEGREE			•
		ABANDON IN PLACE			
		DEMOLISH AND REMOVE	NOTE: ON LOSS OF PRIMARY POWER (PNEUMATIC, ELECTRICAL OR HYDRAULIC) XX: FO = FAIL OPEN FC = FAIL CLOSED FLP = FAIL TO LAST POSITION	NOTE 1. THIS IS A STANDARD LEGEND DRAWING. SOME ITEMS MAY	C
				APPEAR IN LEGENDS AND NOT ON THE DRAWINGS.	

PIPE SCHEDULE

PIPE TERIAL BBREV	SPECIFICATION NUMBER	PIPE LINING	NORMAL MAX OPERATING PRESSURE (PSIG)	FIELD TEST PRESSURE (PSIG)	EXPOSED PIPE PAINT SYSTEM	COLOR CODE	SPECIFIC NOTES	RESTRAINT SYSTEM NOTES
DI	15155	CERAMIC EPOXY	25	100	12	BROWN STRIPE	(A)	(1)
PE, DR11	15146	N/A	25	100	N/A	BROWN STRIPE	N/A	(2)
/C, DR18	15291	N/A	25	100	N/A	BROWN STRIPE	N/A	(1)
RCP		N/A	5	N/A	N/A	N/A	N/A	N/A
C, SDR 35		N/A	5	N/A	N/A	GREEN W/ "STORMWATER" STENCIL	N/A	N/A

<u>TES:</u> HING (FITTINGS, VALVES, ETC.) INCLUDING NEW TO EXISTING. INGS AND VALVES.

5

<u>SPECIFIC NOTES:</u> (A) APPLY ABOVE GRADE PAINT SYSTEM ONLY TO PIPING EXPOSED TO SUNLIGHT. PIPING UNDER FACILITY CANOPY STRUCTURE SHALL BE CLASSIFIED AS EXPOSED TO SUNLIGHT.



CRANE CREEK M-1 CANAL FLOW RESTORATION ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT

MECHANICAL LEGEND SCHEDULE

3

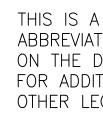
	CERTIFICATE OF AUTHORIZATION #1841	PROJECT NO:	DATE:	Α
D & PIPE	APPROVED BY	19750-066-01	AUG 2020	
	D. YOUNG	INDEX NO:	dwg no: G5	
	P.E. # 44204 2	1	00	J

BID DOCUMENTS

ELECTRICAL ABBREVIATIONS

		ELECTRICAL ABBR	EVIA	TIONS	ELECT	RICAL LEGEND		
F							<u>SYMBOL</u>	DESCRIPTION
	А	AMMETER, AMPERE	PVC	POLYVINYL CHLORIDE	SYMBOL	DESCRIPTION		
	AC	ALTERNATING CURRENT	PWR	POWER	Х	INDICATES ELECT. CKT. #		
	AFF	ABOVE FINISHED FLOOR	RGS	RIGID GALVANIZED STEEL	S	TOGGLE SWITCH, 1-POLE, 20 AMP, 120 VOLT		TIME CLOCK (24 HR, 15 MIN ON/OFF)
	AFG	ABOVE FINISHED GRADE	RCPT	RECEPTACLE		(3 INDICATES 3-WAY, 4 INDICATES 4-WAY)	D	TIME DELAY RELAY (0–180 SEC)
	AMP	AMPERE	RTU	REMOTE TELEMETRY UNIT	Q	JUNCTION BOX	Ε	ELAPSED TIME METER
	ATS AUTO	AUTOMATIC TRANSFER SWITCH AUTOMATIC	SA SH	SURGE ARRESTER SPACE HEATER	\oplus	DUPLEX RECEPTACLE, 3 WIRE GROUNDING,	Н	MOTOR SPACE HEATER
	AUTO	AUTIMATIC	SPD	SURGE PROTECTION DEVICE	\bigwedge	NEMA 5-20R, 20 AMP, 125 VOLT	Μ	MAGNETIC FLOW METER
	AWG	AMERICAN WIRE GAGE	SS	STAINLESS STEEL	(M)	MOTOR, HORSEPOWER INDICATED	P	PHASE MONITOR RELAY
	BAT	BATTERY	SW	SWITCH		IN GROUND PULL BOX, SEE NOTE 11 & 13		TORQUE SWITCH
E	BC	BARE COPPER	Т	THERMOSTAT, THERMISTER	HH1	NEW HANDHOLE (NUMBER INDICATED), SEE NOTE 12	ТН	THERMOSTAT
	BRKR	BREAKER	TD	TEMPERATURE DETECTOR,		NEW HANDHOLE (NOMBER INDIOATED); SEE NOTE TZ		SELECTOR SWITCH
	С	CONDUIT, CONTACTOR, CONDUCTOR,		TIME DELAY	\overline{ullet}	GROUND ROD, 5/8"x10'-0" COPPER CLAD		HAND OFF AUTOMATIC (HOA)
	CB	CIRCUIT BREAKER	TDR	TIME DELAY RELAY	0	CONDUIT UP (MULTIPLE OR SINGLE)		ON-OFF (0-0)
	CKT	CIRCUIT	TEMP	TEMPERATURE		CONDUIT DOWN (MULTIPLE OR SINGLE)		ON OFF REMOTE (OOR) VFD/BYPASS (V-B)
	CPT	CONTROL POWER TRANSFORMER	UNO	UNLESS NOTED OTHERWISE	•	CONDUIT, EXPOSED	Ļ	SURGE PROTECTION DEVICE (SPD)
		CURRENT TRANSFORMER, CABLE TRAY	UPS	UNITERRUPTIBLE POWER		CONDUIT IN FLOOR OR UNDERGROUND		SURVET HOTEGHON DEVICE (SFD)
	DC DIV	DIRECT CURRENT DIVISION	V	SUPPLY VOLTAGE, VOLTS				
	DPDT	DOUBLE-POLE DOUBLE-THROW	Ŵ	WATT		OVERHEAD ELECTRIC LINE, 3-PHASE	67	MOTOR CIRCUIT PROTECTOR (MCP) OR
	DPST	DOUBLE-POLE SINGLE-THROW	WP	WEATHERPROOF		CONDUIT RUN	γĴ	CIRCUIT BREAKER (TRIP AMPS INDICATED) 3 POLE UNLESS OTHERWISE INDICATED
	DS	DISCONNECT SWITCH	XFMR	TRANSFORMER	· − P101	CIRCUIT REFERENCE, SEE WIRING SCHEDULES		
	ETM	ELAPSED TIME METER			"X"	ON SYMBOL INDICATES REMOVAL	E	CURRENT TRANSFORMER
	ETR	EXISTING TO REMAIN			\bigcirc	LOCAL CONTROL STATION HAND-OFF-AUTOMATIC	ulu	POWER TRANSFORMER
D	EXP	EXPLOSION-PROOF				IN NEMA 4X SS ENCL.	\sim	FOWER TRANSFORMER
	FDR	FEEDER				SAFETY SWITCH NEMA 4X STAINLESS STEEL	\downarrow	
	F,FU	FUSE				3 POLE UNLESS OTHERWISE NOTED WITH 2 FORM "C" AUX CONTACTS	\circ	COMBINATION MOTOR STARTER WITH MCP FVR = FULL VOLTAGE REVERSING
	FLEX FREQ	FLEXIBLE CONDUIT FREQUENCY						FVNR = FULL VOLTAGE NON-REVERSING
	GALV	GALVANIZED			ETM	ELAPSED TIME METER	FVNR T	SSRV = SOLID STATE REDUCED VOLTAGE VFD = VARIABLE FREQUENCY DRIVE
	GFCI	GROUND FAULT CIRCUIT INTERRUPTER			\frown	CIRCUIT BREAKER		
►	G,GND	GROUND			00		CPT → ←	CONTROL POWER TRANSFORMER
	HH	HANDHOLE				FUSE		
	HP	HORSEPOWER				TERMINAL	CP	CONTROL PANEL
	ΗZ	HERTZ						
	& C					CONTROL POWER TRANSFORMER	0-0	ON – OFF
	ISR	INTRINSICALLY SAFE RELAY			\succ	INDICATING LIGHT, R=RED, G=GREEN, A=AMBER		
	J,JB	JUNCTION BOX			Q	INDICATING LIGHT, N-NLD, G-GNLLN, A-AMDLN		- EQUIPMENT OUTLINE
C	K KA	KEY INTERLOCK KILOAMPERES				GROUND CONNECTION		
	KV	KILOVOLT			—			
	KVA	KILOVOLT AMPERES			OL'S	THERMAL OVERLOADS		
	KW	KILOWATTS				PHASE MONITOR RELAY CONTACT		
	LT	LIQUID-TIGHT						
	MISC	MISCELLANEOUS			0 0	PUSHBUTTON SWITCH		
	MS	MOTOR STARTER			010	N.C.T.O. CONTACT		
2020\G6.DWG	MT,MTD				\wedge			
G6.	N	NEUTRAL, NORMAL			\sim	N.O.T.C. CONTACT		
20/	NA	NON-AUTOMATIC				NORMALLY OPEN		
-20	NC NEC	NORMALLY CLOSED NATIONAL ELECTRIC CODE				INSTANTANEOUS CONTACT		
- 10-	NEC	NATIONAL ELECTRICAL						
-90 B		MANUFACTURERS ASSOC				NORMALLY CLOSED INSTANTANEOUS CONTACT		
	NO	NORMALLY OPEN			\frown			
D:\ISSUE	NTS	NOT TO SCALE			(TD)	TIME DELAY RELAY (0-180 SEC)		
	OL	OVERLOAD RELAY						
HAL	PB	PULL BOX				FIELD/INTERCONNECTION WIRING		
	PC	PHOTOCELL				LOCAL/INTERNAL WIRING		
2 AM	PH	PHASE						
1:33	PNL	PANEL						
б Т								
501								
A 12/		DESIGNED	HAL DIETF					
		DRAWN	HAL DIETF		seam	UND CRANE CREEK M-1 (CANAL FLOW RES	
				CERTIF	ICATE OF AUTHORIZATIO	DN #1841 ST. JOHN'S RIVER WA	TER MANAGEMEI	NT DISTRICT ELEC
ITR. D	ATE	REVISIONS BY APPRD. CHECKED	MICHAEL	CLARK 730 NE WALDO ROAD, 8657 BAYPINE ROAD SUI	, GAINESVILLE, FLORIDA 3 TE 300, JACKSONVILLE, F	32641 / (352) 377-5821 EL 32256 / (904) 744-5401		
, <u> </u>	8		7		6	5	♦ 4	3

ELECTRICAL LEGEND





ECTRICAL LEGE

3

	2	1
		© Jones Edmunds 2234
	ELECTRICAL NOTES	
1	1. COORDINATE THE INSTALLATION WITH POWER COM WORK. CONTACT THE POWER COMPANY AND SUB FOR WORK REQUIRED UNDER THIS CONTRACT.	
2	2. ALL WORK SHALL CONFORM TO THE LATEST ADO NATIONAL ELECTRICAL CODE (NEC). GROUND ALL ENCLOSURES IN ACCORDANCE WITH THE NEC.	
3	3. THE EXISTING UTILITIES ARE SHOWN BASED ON E THE CONTRACTOR SHALL DETERMINE ACTUAL LOC AND TAKE NECESSARY CARE TO AVOID DAMAGE T CONTRACTOR SHALL REPLACE ALL CIRCUITS AND A RESULT OF CONTRACTOR OPERATIONS AT NO A OWNER.	ATIONS OF EXISTING UTILITIES O THOSE UTILITIES. THE REPAIR PIPING DAMAGED AS
4	4. COORDINATE CONDUIT RUNS WITH FACILITIES AND CLEAR AT PIPE CROSSINGS.	PIPING RUNS. PROVIDE 6"
5	5. THE CONTRACTOR SHALL PROVIDE AS-BUILT DRA INCLUDING ROUTING OF HOME RUNS AS SPECIFIE	
6	 INSTRUMENTATION AND CONTROL CIRCUITS IN COI BY 6" MINIMUM WHERE RUNNING IN PARALLEL W 	
7	7. ALL MOUNTING HARDWARE, ANCHORS, CHANNEL, SUSPENSION CABLES, CABLE HANGERS AND ENCL STEEL UNLESS OTHERWISE INDICATED.	
8	B. UNLESS OTHERWISE NOTED, ALL CONDUIT SHALL BELOW GRADE AND SCHEDULE 80 ABOVE GRADE.	
9	9. ALL LOW VOLTAGE CIRCUITS SHALL BE PROVIDED CONDUCTOR, SIZED IN ACCORDANCE WITH THE LA THE NATIONAL ELECTRIC CODE (NEC).	ATEST ADOPTED EDITION OF
1	10. IN GENERAL, LIGHT LINES INDICATE EXISTING OR BOLD LINES INDICATE NEW ELECTRICAL WORK.	WORK OF OTHER TRADES,
1	11. THE CONTRACTOR SHALL TEST AND RE-VERIFY S RELOCATED ANTENNA SYSTEM TO ENSURE IT MAIN SAME CAPABILITIES AS IN ITS ORIGINAL LOCATION	ITAINS AT A MINIMUM THE
		-
		C
		В
Δ :	STANDARD LEGEND SHEET. SOME SYMBOLS AND	
TIC DR ITIC	ONS MAY APPEAR ON THE LEGEND AND NOT RAWINGS. ONAL ABBREVIATIONS OF OTHER DIVISIONS, SEE GENDS.	

	-			_
		PROJECT NO:	DATE:	Α
	EPC Source, inc.	19750-066-01	JUN 2020	
RICAL LEGEND	Certificate of Authorization No. 33652	INDEX NO:	DWG NO:	
	HAL DIETRICK		G6	
	P.E. # 76416			
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		8				7			6	
PL01	ITED:	7/31/2020 02:46 PM J	OSHUA	GALLEF	2					
	<u>C</u>	SENERAL NOT	ES :				<u>CC</u>	DNCRETE	E NOTES:	
	1.	THESE NOTES ARE GENERAL A SPECIFICATIONS. THESE NOTE UNLESS MODIFIED OR NOTED O DOCUMENTS.	S APPLY T		NTIRE PROJE	ECT	1.	CLASS A - CLASS B - CLASS C -	COMPRESSIVE STRENGTH: 2500 PSI FOR CONCRETE FILL & 3000 PSI FOR SIDEWALKS, CUR 5000 PSI ALL FOUNDATIONS AN 5000 PSI PRE-CAST CONCRETE	BS ETC. ID STRUCTURAL WAI
	2.	DESIGN IS IN ACCORDANCE WI WITH THE PROVISIONS OF THE WHERE OTHER APPLICABLE CO ARE MORE RESTRICTIVE.	2017 FLOF	RIDA BUII	DING CODE	, EXCEPT		REINFORCEMENT: A CONCRETE COVER A) SURFA	STM A615, GRADE 60. FOR REINFORCING: CES CAST AGAINST SUBGRADE	<u> </u>
	3.	LIVE LOADS: ROOFS: PROCESS AREAS: STAIRS & PLATFORMS: CANAL SLAB-ON-GRADE	20 PS 200 P 100 P HS20	PSF SF	OADING			WATE C) FORM WEAT	JRFACES OF SLABS WHERE PV RSTOP IS REQUIRED IN WALLS ED SURFACES IN CONTACT WITI HER, SOIL, OR LIQUID IM SURFACES OF SLABS OVER	3"
	4.	ALL DIMENSIONS INDICATED (*) MEASUREMENTS FOR EXISTING FOR EQUIPMENT FURNISHED. S BUT CONTROLLED BY OR RE VERIFIED WITH THE MANUFACT	STRUCTU TRUCTUR LATED TO	JRES OR AL DIME EQUIPM	BY SHOP DI NSIONS NOT ENT SHALL E	RAWINGS SHOWN BE	4.	E) SURFA WEATH	CES NOT IN CONTACT WITH HER, SOIL, OR LIQUID INTS SHALL BE LOCATED AS SH CTION JOINTS SHALL BE LOCATI	1 1/2" OWN ON THE DRAW
	5.	EQUIPMENT ANCHOR BOLT SIZ VERIFIED WITH THE MANUFACT TEMPLATED TO INSURE ACCUR	ES, TYPES 'URER. ALI	, AND PA L BOLT P	TTERNS SH	ALL BE	5.	CONSTRUCTION. WHERE HORIZONTA EXTEND BEYOND W	ROPOSED CONSTRUCTION JOIL L CONSTRUCTION JOINTS, LOC HERE NEEDED, TERMINATE AT	ATED ABOVE THE F
	6.	STRUCTURAL DRAWINGS SHAL DRAWINGS OF ALL OTHER DISC DRAWINGS.	-		-		6.		ENGINEER. RTS, ANCHORAGES, OPENINGS DRAWINGS BUT REQUIRED BY C	
	7.	IF A CONFLICT IS FOUND BETW CONTRACT DOCUMENTS, NOTI CONTINUED CONSTRUCTION O THE CONTRACTOR'S OWN RISK THE OWNER.	FY THE OV F THE ARE	VNER IMM A IN COM	MEDIATELY. NFLICT SHAL	L BE AT	7.	PROVIDED FOR PRI AT ALL TYPICAL CU SHOWN MAY BE RE HILTI HIT-RE 500 AD	OR TO PLACING CONCRETE. RBS, EQUIPMENT PADS, AND PI PLACED WITH MATCHING DOWE HESIVE SYSTEM OR EQUAL AND	PE SUPPORT PIERS ELS SET IN EPOXY IN 8" MIN. EMBEDMEI
	8.	STRUCTURES HAVE BEEN DESI COMPLETED STRUCTURE. DUR SHALL BE PROTECTED BY BRAG WHEREVER EXCESSIVE CONST	ING CONS CING AND	TRUCTIC TEMPOR	N, THE STRU ARY SUPPO	JCTURES RTS	8.	OF ANY POST-INSTA EDGE OF CONCRET WHERE DRILLED EF	TION AND PROPOSED EMBEDMI ALLED DOWELS. DOWELS LOCA E SHALL NOT BE REPLACED WI POXY DOWELS ARE PLACED INT	TED CLOSER THAN TH DRILLED DOWEL O HARDENED CONC
	9.	OVERSTRESSING OF ANY STRUNO BACK FILL SHALL BE PLACE SUPPORTING ELEMENTS OF TH	D AGAINST	T ANY WA	ALL UNLESS /E BEEN	ALL	9.	THE DOWEL LOCAT	AS NEEDED TO AVOID DRILLING ON NEEDS TO BE MODIFIED, CO BOLTS, PIPES, AND OTHER EMB	ONTACT THE ENGINI
	10	CONSTRUCTED AND HAVE REA CONCRETE STRENGTH. . DO NOT SCALE THESE DRAWIN				1	10.	CONDUITS AND PIP SPACED ON CENTE	ONCRETE IS PLACED. ES EMBEDDED IN OR PENETRAT R NOT LESS THAN 3 TIMES THEI	R OUTSIDE DIMENS
	11	. CONTRACTOR'S CONSTRUCTIC RECOGNIZE AND CONSIDER TH STRUCTURAL ELEMENTS DURI	E EFFECT	S OF THE	ERMAL MOVE	EMENTS OF		OF THE CONCRETE EMBEDDED CONDU	CLEAR. OUTSIDE DIMENSION OF MEMBER THICKNESS. CLEAR S TS OR PIPES CROSSING AT AN	PACING REQUIREM ANGLE LESS THAN
	12	. PROVIDE ADDITIONAL REINFOR INTERSECTIONS AS SHOWN IN				WALL		SUM OF THE OUTER	IENSION USED TO MEET MEMBE DIMENSIONS OF CROSSING EL TS AND PIPES SHALL BE LOCAT	EMENTS.
	13	 FOR SIZES AND LOCATIONS OF OPENINGS, SEE OTHER DISCIP THAN 12" ARE NOT SHOWN ON OTHER DISCIPLINE DRAWINGS 	LINE DRAV	VINGS, O RAL DRA	PENINGS SIZ	ZES LESS		REINFORCING BARS	ND A MINIMUM OF 2 1/2 INCHES 6. REQUIREMENTS FOR EMBEDI REQUIRED FOR CROSSING EME	DED ELEMENTS CR
	14	. FOR NUMBER, TYPE, SIZE, ARR EQUIPMENT PADS, SEE OTHER	ANGEMEN DISCIPLIN	T, AND/O E DRAWI	NGS. COOR	DINATE		UNLESS INDICATED	ES SHALL NOT BE EMBEDDED IN OTHERWISE OR AUTHORIZED E	BY ENGINEER.
		WITH EQUIPMENT SUPPLIER PF FOUNDATIONS. COORDINATE P DRAWINGS.						PIPE IN FLANGE, ME MINIMUM CLEARAN	TAL CONDUIT, OR OTHER META CE OF 2 INCHES SHALL BE PROV	L PARTS EMBEDDE /IDED.
	15	. STANDARD DETAILS ARE INTEN TO SIMILAR SITUATIONS OCCU WHETHER OR NOT THEY ARE II	RRING THF	ROUGHO	UT THE PRO			COLUMNS, BEAMS,	HAMFER USING WOOD CHAMFE AND WALLS. OF WALL CORNER AND WALL IN	
	16	DO NOT CUT OR MODIFY STRUE ETC, UNLESS SPECIFICALLY DE THE ENGINEER.					17.	-	FORCING UNLESS OTHERWISE	E SHOWN ON PLANS.
	17	VISITS TO THE JOB SITE BY THE CONSTRUCTION DO NOT IN AN GUARANTOR OF CONSTRUCTO COMPREHENSIVE OR SPECIAL	Y WAY MEA R'S WORK	AN THAT , NOR RE DNS, COO	ENGINEER I SPONSIBLE	FOR THE	18.	AROUND CORNERS	D WALL INTERSECTION REINFO AND THROUGH COLUMNS. REIN S AND LAPPED ON THE OPPOSI DARD DETAILS.	NFORCEMENT SHAL
	F							INTO CONNECTING FOOTING. OUTSIDE	RNER AND INTERSECTION REIN FOOTINGS AND LAPPED ON THE FACE WALL FOOTING REINFOR OTING REINFORCEMENT SHALL S.	E OPPOSITE FACE C CEMENT SHALL BE
		DESIGN OF FOUNDATION IS BAS EXPLORATION AND GEOTECHNI (PROJECT NO. 18-23-5319) COMF	ED ON SUI CAL ENGIN	BSURFAG	EVALUATIO		20.	SUPPORTED ON BA	L FOR FOOTINGS AND SLABS O R SUPPORTS WITH SPACERS TO LIFTING REINFORCING OFF GRA	O KEEP REINFORCII
	2.	INC., ON MAY 3, 2019. MINIMUM DEPTH FROM ADJACEI EXTERIOR FOUNDATION 1'-6" UN				M OF		DRY-PACKING WITH	CH FORM SNAP-TIE HOLES AND APPROVED NON-SHRINK GROU	JT.
	3.	FOUNDATION SLABS AND SLABS COMPACTED SOILS MEETING TH GEOTECHNICAL REPORT UNLES NOTES. CONTRACTOR SHALL SU GEOTECHNICAL AND STRUCTUR OF SUPPORTING SOILS BELOW	IE REQUIR S OTHERV JBMIT DEN RAL ENGIN BOTTOM C	EMENTS VISE NOT ISITY TES EER OF F OF SLABS	OF THE FED IN FACIL STS TO RECORD FOR AND FOUNE	R 2 FEET DATIONS.	22.	SUBMIT VERTICAL V CONSTRUCTION.	VALL CONSTRUCTION JOINT. LC	CATION FOR REVIE
	4.	PLACE 6 MIL VISQUEEN OVER CO CHAIRS THAT SUPPORT REINFO FOUNDATION AND SLAB ON GRA OBSERVED BY THE GEOTECHNI PLACEMENT OF FORM WORK OF OBSERVATION SHALL VERIFY IF AS ANTICIPATED BY THE SITE SU AND DATA REPORTS.	RCING MA DE BEARII CAL ENGIN REINFOR THE ACTU	TS. NG SURF IEER PRI CING ST JAL EXPC	ACES SHALI OR TO THE EEL. THE DSED SUBGF	- BE ADE IS				
					DESIGNED	M THUE	-			
					DRAWN	J GALLER	-	C	ertificate of authorization #	<i>‡</i> 1841
LTR.	DATE	REVISIONS	BY	APPRD.	CHECKED	D CRAPPS	-	730 NE WALDO	ROAD, GAINESVILLE, FLORIDA 326 D SUITE 300, JACKSONVILLE, FL 3	41 / (352) 377-5821

STRUCTURAL STEEL NOTES: 1. DETAIL, FABRICATE, AND ERECT STRUCTURAL STEEL IN ACCORDANCE WITH AISC	SLAB/SLAB-ON-GRADE REINFORCEMENT LAP SPLICE LENGTH SCHEDULE (INCHES)					
STEEL CONSTRUCTION MANUAL AND AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, LATEST EDITION.	BAR	MIN BAR SPACING	TE	ENSION (L ⁻	rs)	
 STEEL MATERIAL: 2.1. STRUCTURAL TUBING, ASTM A500, GRADE B OR C 2.2. STRUCTURAL PIPE, ASTM A53, GRADE B 2.3. W SHAPES, ASTM A992 	SIZE	(INCHES)	f'c = 3 KSI	fc = 4 KSI	f'c = 5 KSI	
2.3. W SHAPES, ASTM A992 2.4. STRUCTURAL CHANNELS, ASTM A36 2.5. ALL OTHER SHAPES AND PLATES, ASTM A36 UON	#4	2	29	25	23	
BOLTS SHALL BE HIGH STRENGTH BOLTS CONFORMING TO THE FOLLOWING ASTM	#5	3	36	31	28	
SPECIFICATIONS EXCEPT WHERE SPECIFICALLY INDICATED OTHERWISE: UNLESS SHOW OTHERWISE A325-N SLIP CONTROL A325-SC	#6	3	43	37	34	
ANCHOR BOLTS (AB) STAINLESS STEEL STEEL GALVANIZED STEEL MACHINE BOLTS (MB) STEEL		DETAU				
PROVIDE TYPICAL STEEL BEAM CONNECTIONS FOR A CAPACITY OF NOT LESS THAN			NING WALL PLICE LENG			
THE TOTAL UNIFORM LOAD CAPACITY TABULATED IN THE AISC TABLES FOR ALLOWABLE LOADS OF BEAMS.		<u></u>			DN (LTS)	<u></u>
DO NOT PAINT STEEL SURFACES WHICH ARE TO BE WELDED OR ENCASED IN CONCRETE.	BAR	MIN BAR				
 FILLET WELD SIZES SHALL BE THE MINIMUM SIZE REQUIRED BY AISC AND AWS FOR PLATE SIZES TO BE CONNECTED AND SHALL BE APPLIED TO THE ENTIRE JOINT CONTACT LENGTH. 	SIZE	SPACING (INCHES)	f'c = 4 KSI f'c		f'c =	5 KSI
. STAINLESS STEEL SHALL BE TYPE 316L-ASTM A276.			TOP	OTHER	TOP	OTHE
STAINLESS STEEL TYPE 316L SHALL BE USED IN ALL AREAS TO BE SUBMERGED AND AS SHOWN ON DWGS.	#5	3	40	31	36	28
IF STAINLESS STEEL MEMBERS ARE NOT AVAILABLE, PROVIDE EQUIVALENT STAINLESS STEEL SECTIONS, BUILT UP OUT OF STAINLESS STEEL PLATES.	#6	4	48	37	44	34
). ALL BOLTS, ANCHOR BOLTS, AND CONCRETE ANCHORS CONNECTING STAINLESS STEEL SHALL BE TYPE 316 STAINLESS STEEL.	#7	4	71 81	54 62	63 72	49 56
 WHENEVER ONE MEMBER IS FASTENED TO ANOTHER WITH FASTENINGS (BOLTS, WELDS, ETC.) SET AT A UNIFORM SPACING, THERE SHALL BE A MINIMUM OF TWO FASTENINGS PER PIECE CONNECTED AND THE FIRST AND LAST FASTENINGS SHALL BE LOCATED NOT TO EXCEED 1/4 SPACE FROM EACH END. ALL GRATING SHALL BE ALUMINUM UNLESS OTHERWISE NOTED. 				1	1	
 ITEMS TO BE EMBEDDED IN CONCRETE SHALL BE CLEAN AND FREE OF OIL, DIRT AND PAINT. 		ED VALUES ARE PER ACI TE. THE VALUES ON THIS				
NO HOLES OTHER THAN THOSE SPECIFICALLY DETAILED SHALL BE ALLOWED THROUGH STRUCTURAL STEEL MEMBERS. NO CUTTING OR BURNING OF STRUCTURAL STEEL IS PERMITTED WITHOUT THE APPROVAL OF THE ENGINEER.	2. MINIMUM	BAR SPACING DIAGRAM -	"s" 			
STEEL SHEET PILING NOTES:	-	RST BAR				
E SPECIFICATIONS FOR ALL STEEL SHEET PILING REQUIREMENTS.		COND BAR PLACED OR S				
E SPECIFICATIONS FOR ALL STEEL SHEET PILING REQUIREMENTS.		ED VALUES ARE FOR NON REINFORCEMENT MULTIP				

KS, CURBS ETC. FIONS AND STRUCTURAL WALLS, SLABS AND BE NCRETE

- BGRADE 3" IERE PVC WALLS - 3" ACT WITH S OVER WITH 1 1/2"
- ED AS SHOWN ON THE DRAWINGS. WHERE NOT LOCATED AT NO MORE THAN 40' ON CENTER ION JOINT LOCATIONS FOR REVIEW PRIOR TO
- NTS, LOCATED ABOVE THE FOUNDATION SLAB, NATE AT A VERTICAL CONSTRUCTION JOINT AS
- PENINGS, RECESSES AND REVEALS NOT SHOW RED BY OTHER CONTRACT DOCUMENTS, SHALL RETE.
- , AND PIPE SUPPORT PIERS, REINFORCING DO IG DOWELS SET IN EPOXY IN DRILLED HOLES UAL AND 8" MIN. EMBEDMENT. CONTRACTOR 1 MBEDMENTS FOR REVIEW PRIOR TO INSTALLA S LOCATED CLOSER THAN 3 INCHES FROM AN CED WITH DRILLED DOWELS.
- CED INTO HARDENED CONCRETE, ADJUST THE DRILLING THROUGH ANY REINFORCING BARS. IFIED, CONTACT THE ENGINEER PRIOR TO DRIL
- HER EMBEDDED ITEMS SHALL BE HELD SECURE
- ENETRATING THROUGH CONCRETE SHALL BE IES THEIR OUTSIDE DIMENSION, BUT NOT LESS ISION OF EMBEDDED ITEMS SHALL NOT EXCEE CLEAR SPACING REQUIREMENTS SHALL APPLY IG AT AN ANGLE LESS THAN 60 DEGREES.
- T MEMBER THICKNESS LIMITATIONS SHALL BE SSING ELEMENTS.
- E LOCATED BETWEEN THE LAYERS OF INCHES CLEAR FROM APPROXIMATELY PARALI EMBEDDED ELEMENTS CROSSING REINFORCIN SING EMBEDDED ELEMENTS.
- EDDED IN OR PASS THROUGH COLUMNS OR BE DRIZED BY ENGINEER.
- HALL NOT BE IN CONTACT WITH ANY METAL PIP ER METAL PARTS EMBEDDED IN CONCRETE. A BE PROVIDED.
- CHAMFER STRIPS ON ALL EXPOSED CORNERS OF
- WALL INTERSECTION REINFORCING SHALL MATCH ERWISE SHOWN ON PLANS.
- HOWN, SHALL BE ACI 350 STANDARD HOOKS.
- REINFORCEMENT BARS SHALL BE CONTINUOUS INS. REINFORCEMENT SHALL BE EXTENDED INTO OPPOSITE FACE OF THE CONNECTING WALLS, AS
- ON REINFORCEMENT BARS SHALL BE EXTENDED ON THE OPPOSITE FACE OF THE CONNECTING EINFORCEMENT SHALL BE LAPPED WITH CORNER NT SHALL BE CONTINUOUS THROUGH COLUMN OR
- SLABS ON GRADE SHALL BE ADEQUATELY ACERS TO KEEP REINFORCING ABOVE THE OFF GRADE DURING CONCRETE PLACEMENT IS NOT
- LES AND ALTERNATE FORM-THROUGH BOLT HOLE BY NK GROUT.
- OINT. LOCATION FOR REVIEW PRIOR TO

CRANE CREEK M-1 CANAL FLOW RESTORATION ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT

REVIEW PRIOR TO FABRICATION.

REVIEW PRIOR TO FABRICATION.

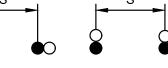
PRECAST CONCRETE NOTES:

1. SEE SPECIFICATIONS FOR ALL PRECAST CONCRETE REQUIREMENTS.

2. SUBMIT SHOP DRAWINGS SIGNED AND SEALED BY A REGISTERED FLORIDA P.E. FOR

STRUCTURAL GENERAL

5



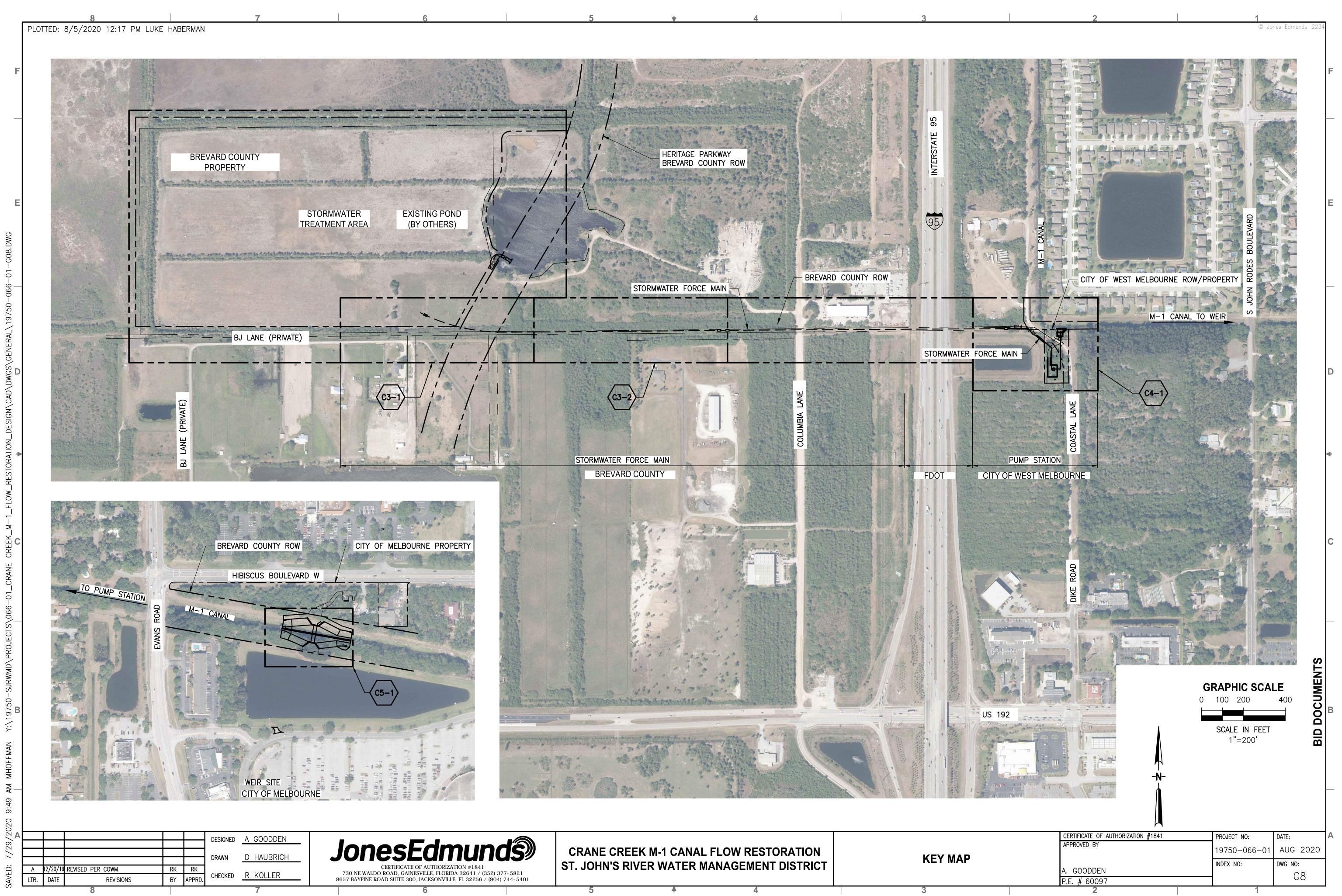
4. WHERE BARS OF DIFFERENT SIZES ARE LAP SPLICED IN TENSION, THE LAP LENGTH SHALL BE THE TENSION LAP SPLICE LENGTH (LTS) OF THE SMALLER BAR.

5. "TOP BARS" ARE DEFINED PER ACI HORIZONTAL REINFORCEMENT SO PLACED THAT MORE THAT 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE DEVELOPMENT LENGTH OR SPLICE. "OTHER BARS ARE ALL BARS FOR WHICH THIS DOES NOT APPLY."



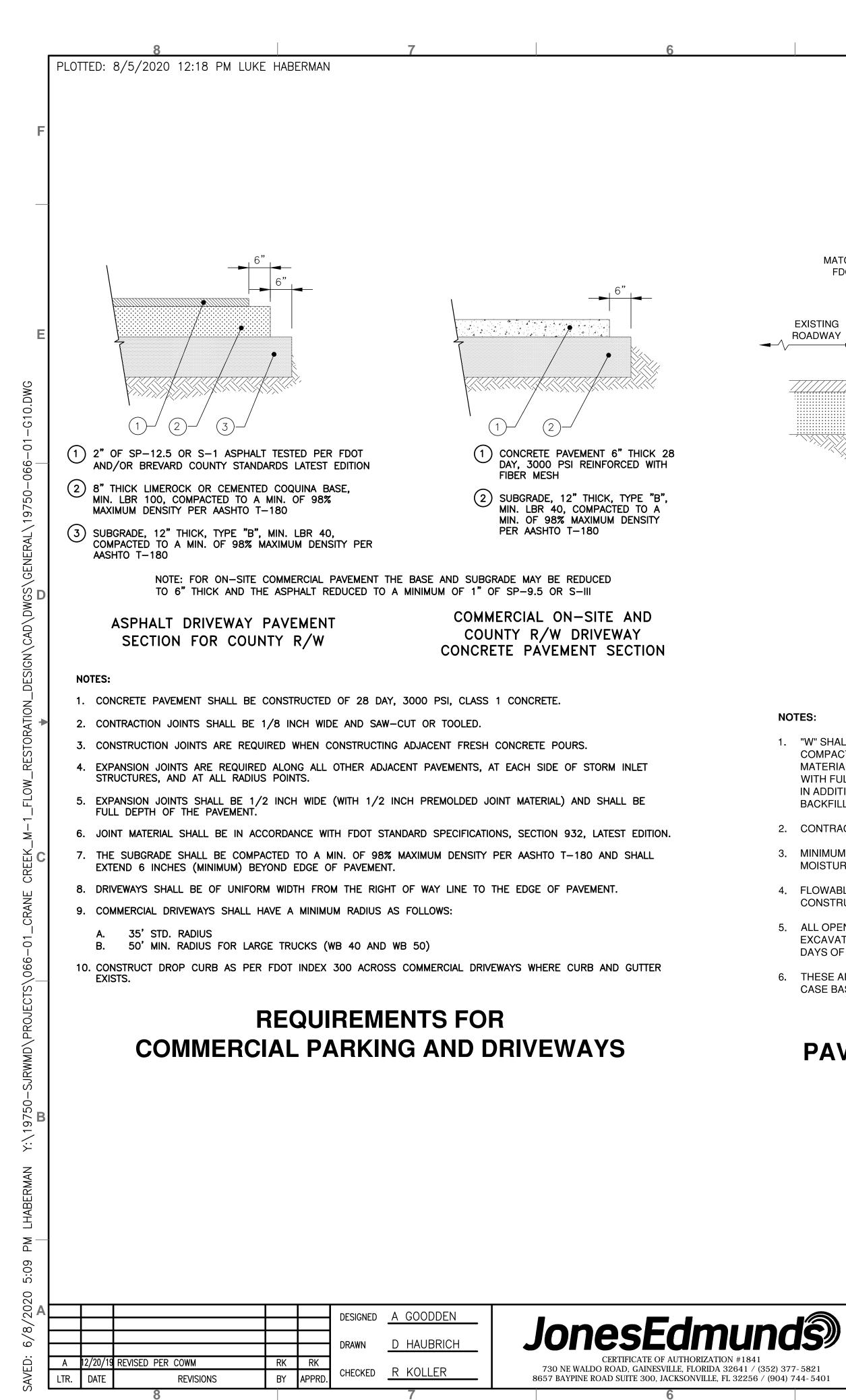
Engineering & Consulting, Inc. 5590 SW 64th Street, Suite B

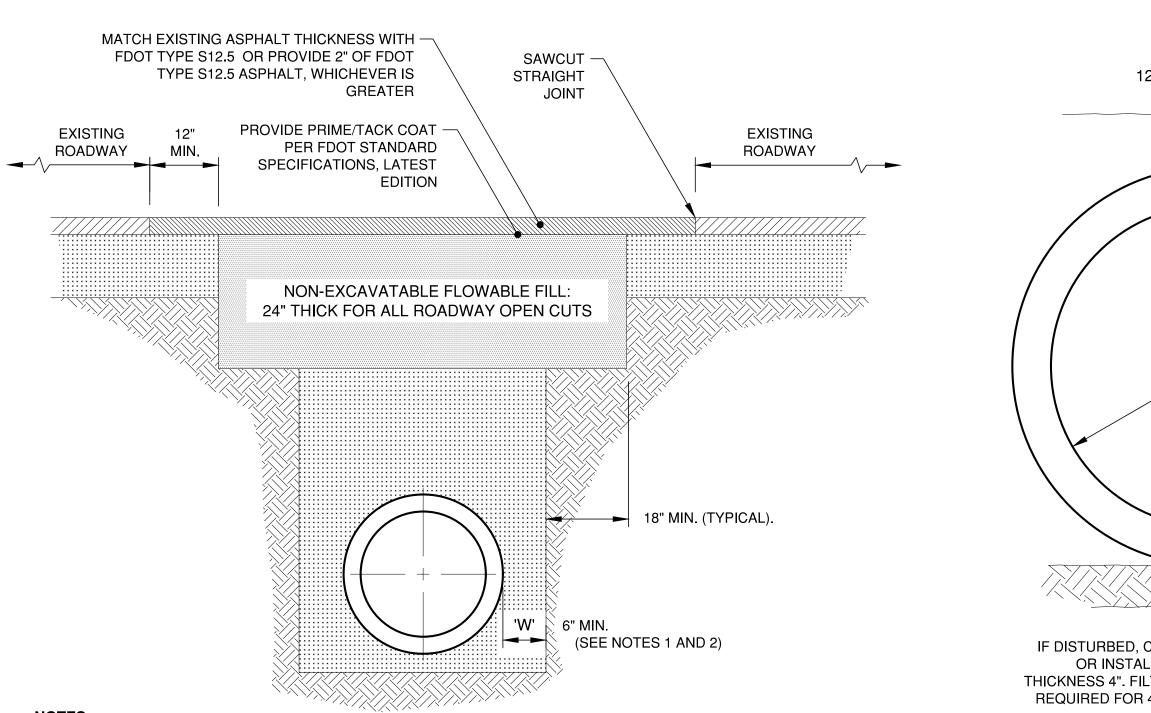
	5590 SW 64th Street, Suite B Gainesville, Florida 32608 Phone: (352) 377–3233 Fax: (352) 377–0335		
	CERTIFICATE OF AUTHORIZATION #1841	PROJECT NO:	DATE:
L NOTES	APPROVED BY	19750-066-01	JUN 2020
LNUIES	MONRAD R. THUE P.E. # 32071	INDEX NO:	DWG NO: G7
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8 7 6 PLOTTED: 8/5/2020 12:17 PM LUKE HABERMAN		5 \star 4	3
	TY PUBLIC WO	RKS ENGINEERING STANDARD DE	VELOPMENT NO
GENERAL			
 ALL CONSTRUCTION SHALL CONFORM TO FDOT DESIGN STANDARDS (LATEST EDITION), FDOT STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION (LATEST EDITION), BREVARD COUNTY UTILITY SERVICES CRITERIA FOR WATER AND SANITARY SEWER SYSTEMS, AND BREVARD COUNTY CODE OF ORDINANCES. 	IN ADVANCE OF THE PROPOSED	CTOR SHALL NOTIFY BREVARD COUNTY TRAFFIC OPERATIONS (321-633-2077) A MINIMUM OF ONE (1) WEEK START DATE OF CONSTRUCTION WITHIN THE RIGHT-OF-WAY. CONSTRUCTION SHALL NOT BEGIN UNTIL ND NOTIFICATIONS HAVE BEEN SENT TO AFFECTED AGENCIES. NO LANE CLOSURES WILL BE PERMITTED DLUMES.	 FOR SUPERPAVE (SP) ASPHALT AS 1. THE CONTRACTOR SHALL PROVIDE AI PUBLIC WORKS ENGINEERING FIVE BU OUTLINED IN SECTION 334-2 & 334-3 (2)
2. ISSUANCE OF CERTIFICATE OF COMPLETION: UPON COMPLETION OF CONSTRUCTION OF THE PROJECT AND PRIOR TO SCHEDULING OF THE FINAL INSPECTION, THE APPLICANT OR THEIR AUTHORIZED REPRESENTATIVE, SHALL PROVIDE THE FOLLOWING DOCUMENTATION TO BREVARD COUNTY PUBLIC WORKS ENGINEERING:		S SHALL MEET THE REQUIREMENTS OF THE MUTCD FOR STREETS AND HIGHWAYS, FDOT STANDARDS RD COUNTY LAND DEVELOPMENT EXHIBIT #26.	BE ACCEPTED. 2. THE CONTRACTOR SHALL PROVIDE G THE SAMPLE(S) MAY BE TAKEN AT TH
a. A CERTIFICATE OF COMPLETION - REQUEST FOR FINAL INSPECTION FORM. THE FORM MUST BE FROM A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF FLORIDA WITH THEIR SEAL AFFIXED. THE FORM CERTIFIES THAT THE IMPROVEMENTS		DRAINAGE - ROADWAYS	PROVIDED TO THE COUNTY WITHIN C 3. THE CONTRACTOR SHALL PROVIDE (
HAVE BEEN CONSTRUCTED IN CONFORMANCE WITH THE APPROVED CONSTRUCTION PLANS AND SPECIFICATIONS. b. A COMPLETE SET OF TESTING REPORTS FOR ALL TESTS PERFORMED ON THE PROJECT WITHIN THE COUNTY RIGHT-O- WAY AND/OR FOR ALL SUBDIVISION CONSTRUCTION REGARDLESS OF PUBLIC OR PRIVATE.	EDITIONS).	RUCTION SHALL CONFORM TO FOOT STANDARD SPECIFICATIONS AND FOOT DESIGN STANDARDS,(LATEST	334-5, AND 334-5.2.3 (2010).4. ASPHALT TESTING RESULTS FOR EAC AND DENSITY AVERAGES, AS NOTED
C. THREE SETS OF AS-BUILT DRAWINGS MEETING THE REQUIREMENTS OF SECTION 61G17, F.A.C., AND SIGNED AND SEALED BY A SURVEYOR LICENSED IN THE STATE OF FLORIDA. AT A MINIMUM, ALL AS-BUILT DRAWINGS MUST INCLUDE:		SHALL BE HOT DIPPED GALVANIZED AND HAVE A TRAFFIC BEARING H-20 LOAD RATING. HE COUNTY RIGHT-OF-WAY SHALL BE TRAFFIC BEARING H-20 LOADING.	FOR THE THICKNESS OF EACH ASPH 5. PAVEMENT SURFACE SHALL MEET A
 i. ROAD/PAVEMENT ELEVATIONS; ROADWAY CROSS SLOPES; PAVEMENT WIDTH; PAVEMENT SPOT ELEVATIONS NECESSARY TO CONFIRM STORMWATER DRAINAGE PATTERNS AT INTERSECTIONS AND SIDEWALKS; CURB SLOPES; ii. STORMWATER PIPE SIZES AND INVERT ELEVATIONS; LOCATION OF OUTFALL STRUCTURE(S) WITH AS-BUILT ELEVATIONS FOR ALL CONTROL STRUCTURE & SKIMMER ELEVATIONS SHOWN ON THE APPROVED PLANS; TOP OF BANK, GRADE BREAKS, BOTTOM ELEVATIONS FOR ALL STORMWATER PONDS OR BERM AREAS; iii. ANX OTHER ADDITIONAL AS RUM T RATA THAT IS ADDITIONAL FOR THE REQUEST TO ENSURE COMPLETION IN 	CONVEYS STORMWATER UNDE 430-4.8, 430-4.8.1, AND 430-4.8.2 COPY OF THE PIPE VIDEO SHAL	IN THE ROAD RIGHT-OF-WAY, REGARDLESS OF PUBLIC OR PRIVATE, OR STORMWATER PIPING THAT R THE ROADWAY BETWEEN STORMWATER TREATMENT PONDS, SHALL BE INSPECTED PER SECTIONS OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION,(LATEST EDITION). A L BE PROVIDED TO THE COUNTY AS PART OF THE SUBMITTAL OF THE CERTIFICATION OF COMPLETION IN. THE COUNTY SHALL BE NOTIFIED ONE WEEK PRIOR TO THE START OF THE PIPE VIDEO INSPECTION	6. THE CONTRACTOR SHALL PROVIDE O OR GREATER IN ACCORDANCE WITH FOR FRICTION COURSE FC-5 AS SP
 iii. ANY OTHER ADDITIONAL AS-BUILT DATA THAT IS APPLICABLE TO THE PROJECT TO ENSURE COMPLETION IN ACCORDANCE WITH THE APPROVED CONSTRUCTION PLANS. d. PIPE INSPECTION VIDEO PER FDOT REQUIREMENTS. (IF APPLICABLE PER NOTE 4 OF DRAINAGE NOTES) e. IF A MUNICIPALITY IS ACCEPTING A PUBLIC WATER AND/OR SEWER SYSTEM, THERE MUST BE DOCUMENTATION INDICATING MUNICIPAL ACCEPTANCE OF THE CONSTRUCTION OF THE WATER AND/OR SEWER SYSTEM. 	5. ALL OPEN CUTS SHALL CONFOR ASPHALT SHALL BE INSTALLED	IM TO LAND DEVELOPMENT EXHIBIT #25. FOR ALL OPEN CUTS, THE FLOWABLE FILL AND TEMPORARY WITHIN TWO (2) DAYS OF THE EXCAVATION (UNLESS OTHERWISE APPROVED IN WRITING BY BREVARD EERING). PERMANENT ASPHALT INCLUDING MILLING AND RESURFACING, IF NEEDED, SHALL BE DAYS OF EXCAVATION.	 THE CONTRACTOR SHALL PROVIDE P PROJECT, TO PUBLIC WORKS ENGINE REQUIREMENTS AS OUTLINED IN SEC APPROVED WILL NOT BE ACCEPTED. THE CONTRACTOR SHALL PROVIDE G
f. PUBLIC WORKS ENGINEERING WILL NOT SIGN OFF ON A TEMPORARY CERTIFICATE OF OCCUPANCY (TCO) FROM THE BREVARD COUNTY BUILDING DEPARTMENT UNTIL THE AS-BUILT DRAWINGS AND OTHER DOCUMENTATION LISTED ABOVE HAVE BEEN SUBMITTED AND REVIEWED BY PUBLIC WORKS ENGINEERING.		OVE THE SHOULDER OF THE ROADWAY TO A POINT WHERE THE BASE MATERIAL OF THE EXISTING THICKNESS OF THE PROPOSED ROADWAY/COMMERCIAL DRIVEWAY CONNECTION.	SAMPLE(S) MAY BE TAKEN AT THE PE TO THE COUNTY WITHIN ONE WEEK
g. PROJECTS CONNECTED TO THE BREVARD COUNTY WATER, SANITARY SEWER, AND/OR RECLAIMED WATER SYSTEMS MUST OBTAIN FINAL APPROVAL FOR THE PROJECT DIRECTLY FROM BREVARD COUNTY UTILITY SERVICES AS OUTLINED IN THE BREVARD COUNTY CRITERIA FOR WATER AND SANITARY SEWERAGE SYSTEMS.		CONCRETE PAVING AND SIDEWALK	 PAVEMENT SURFACE SHALL MEET AI QUALITY CONTROL CORE BORINGS S
3. UPON APPROVAL OF FINAL INSPECTION, AN ENGINEER'S CERTIFIED COST ESTIMATE WILL BE REQUIRED ALONG WITH A 2-YEAR MAINTENANCE BOND FOR ALL IMPROVEMENTS WITHIN THE COUNTY RIGHT-OF-WAY AS REQUIRED BY CHAPTER 86 OF THE BREVARD	1. ALL DRIVEWAYS SHALL BE CON NOTED.	STRUCTED PER FDOT INDEX 515 AND/OR BREVARD COUNTY STANDARD EXHIBITS UNLESS OTHERWISE	5. THE CONTRACTOR SHALL PROVIDE OR GREATER IN ACCORDANCE WITH
 COUNTY CODE OF ORDINANCES. THE MAINTENANCE BOND SHALL BE 25% OF THE ENGINEER'S CERTIFIED COST ESTIMATE. THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE TO THE COUNTY INFRASTRUCTURE DURING CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE STRUCTURAL INTEGRITY OF THE ROADWAY ASPHALT, BASE, AND STABILIZED SUB-BASE, SIDEWALKS, STORMWATER DRAINAGE SYSTEM, DRAINAGE STRUCTURES, CURBS, GROUND COVER, WATER SYSTEMS, SANITARY SEWER SYSTEMS, AND RECLAIMED WATER SYSTEMS. ALL REPAIRS SHALL BE COMPLETED IN ACCORDANCE WITH FDOT AND BREVARD COUNTY STANDARDS. 	SPECIFICATIONS FOR ROAD AN 3. ALL SIDEWALKS WITHIN THE CO	OT DESIGN MIX AND SPECIFICATIONS. CURING METHOD SHALL BE IN ACCORDANCE WITH THE FDOT D BRIDGE CONSTRUCTION,(LATEST EDITION). UNTY RIGHT-OF-WAY OR WITHIN A PUBLIC SIDEWALK EASEMENT SHALL BE CONSTRUCTED OF 6-INCH H FIBER MESH REINFORCEMENT. CONCRETE SIDEWALKS (OR PEDWAYS) AND CONCRETE DRIVEWAY	FOR SUPERPAVE FRICTION COURS 1. THE CONTRACTOR SHALL PROVIDE A PUBLIC WORKS ENGINEERING FIVE E
AND RECLAIMED WATER STSTEMS. ALL REPAIRS SHALL BE COMPLETED IN ACCORDANCE WITH FOOT AND BREVARD COUNTY STANDARDS. ALL REPAIRS SHALL BE COMPLETED PRIOR TO THE FINAL INSPECTION OF THE PROJECT. SIDEWALK PATCHING WILL NOT BE ACCEPTABLE. 5. A VISUAL OR MECHANICAL INTERIOR INSPECTION OF EXISTING CULVERTS WILL BE REQUIRED PRIOR TO THE FINAL INSPECTION.	APRONS SHALL BE CONSTRUCT UNSUITABLE FOR COMPACTION	ED OVER SOILS COMPACTED TO 98% DENSITY, OF AASHTO T -180. SHOULD EXISTING SOILS BE FOUND , ADDITIONAL COMPATIBLE MATERIALS SHALL BE BROUGHT TO THE SITE FOR USE AS SUBGRADE. PACTION MAY BE REQUIRED TO AVOID DAMAGE TO SURROUNDING PROPERTIES.	OUTLINED IN SECTION 337-4 (2010). ACCEPTED. 2. THE CONTRACTOR SHALL PROVIDE
6. ALL DISTURBED AREAS WITHIN THE COUNTY RIGHT-OF-WAY SHALL BE SODDED. SEED & MULCH IS NOT ACCEPTABLE. SOD SHALL MATCH EXISTING SOD TYPE. BAHIA SOD SHALL BE USED IN AREAS ADJACENT TO VACANT PROPERTY. DISTURBED AREAS OUTSIDE THE CONSTRUCTION LIMITS WILL BE SODDED AT THE CONTRACTOR'S EXPENSE.	4. CONSTRUCT SIDEWALK JOINTS BETWEEN NEW AND OLD CONCI	PURSUANT TO FDOT INDEX 310 (LATEST EDITION). EXPANSION JOINTS SHALL BE EVERY 50 FEET, AND RETE.	SAMPLE(S) MAY BE TAKEN AT THE F TO THE COUNTY WITHIN ONE WEEK
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL SURVEY MONUMENTATION. ANY SURVEY MONUMENTATION DISTURBED OR DESTROYED DURING CONSTRUCTION SHALL BE REPLACED BY A FLORIDA LICENSED SURVEYOR PRIOR TO ISSUANCE OF A		HALL NOT BE USED FOR SIDEWALK/DRIVEWAY CONSTRUCTION. FORM BOARDS SHALL MATCH PROPOSED ORMS SHALL NOT BE USED FOR SIDEWALK CONSTRUCTION. FIXED FORMWORK SHALL BE REQUIRED PER	 THE CONTRACTOR SHALL PROVIDE 337-4, 337-6, 337-8, AND 334-5.2.3 (20 4. ASPHALT TESTING RESULTS FOR EA
CERTIFICATE OF COMPLETION FOR THE PROJECT. 8. REGARDLESS OF PRIVATE OR PUBLIC DEDICATION, THERE SHALL BE NO UTILITY CONNECTIONS OR METER BOXES WITHIN PROPOSED OR EXISTING SIDEWALKS OR DRIVEWAY AREAS.		IDE A 3-FOOT CURB TRANSITION AT ALL CURB TERMINATIONS.	AND DENSITY AVERAGES, AS NOTED THE THICKNESS OF EACH ASPHALT
 ALL DIRECTIONAL BORES SHALL BE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SECTION 555, DIRECTIONAL BORES AND THE FDOT UTILITIES ACCOMMODATION MANUAL. 		GIGN STANDARDS (LATEST EDITION), AND BREVARD COUNTY DEVELOPMENT REQUIREMENTS.	 5. PAVEMENT SURFACE SHALL MEET A 6. THE CONTRACTOR SHALL PROVIDE
10. ALL DIRECTIONAL BORES MUST EXTEND A MINIMUM OF EIGHT(8) FEET PAST THE EDGE OF PAVEMENT OF ANY ROADWAY OR COMMERCIAL DRIVEWAY. FOR RESIDENTIAL DRIVEWAYS AND SIDEWALKS, THE BORE MUST EXTEND THREE (3) FEET PAST THE EDGE ON EITHER SIDE.		ASPHALT PAVING AND TESTING	OR GREATER IN ACCORDANCE WITI
 THE CONTRACTOR SHALL CONTROL DUST GENERATED BY THIS PROJECT AT ALL TIMES, SHALL PROVIDE STREET SWEEPING AS REQUIRED, AND PREVENT SEDIMENT FROM ENTERING INTO THE EXISTING DRAINAGE SYSTEM AT ALL TIMES. THE CONTRACTOR SHALL NOT EXCEED NOISE LEVELS AS SPECIFIED IN BREVARD COUNTY CODE OF ORDINANCES SECTION 62-2271. 		IENTS APPLY TO: UBDIVISION PROJECTS PERMITTED THROUGH BREVARD COUNTY PLANNING AND DEVELOPMENT; PERMITTED THROUGH BREVARD COUNTY PLANNING AND DEVELOPMENT REQUIRING WORK IN THE	1. ALL CONSTRUCTION SHALL COMPLY AND BRIDGE CONSTRUCTION (LATE
 ALL STRIPING AND PAVEMENT MARKINGS IN THE COUNTY RIGHT-OF-WAY SHALL BE THERMOPLASTIC AND SHALL NOT BE APPLIED UNTIL A MINIMUM OF 30 DAYS AFTER THE PLACEMENT OF THE FINAL ASPHALT SURFACE. IN THE INTERIM, STRIPING SHALL BE PAINT AND ANY REQUIRED RPM'S INSTALLED PER THE PLANS. DO NOT STRIPE ACROSS MANHOLE LIDS OR DRAINAGE GRATES. REFLECTIVE PAVEMENT MARKINGS (RPM'S) SHALL BE INSTALLED IN ALL LOCATIONS AS REQUIRED BY FDOT DESIGN STANDARD.(LATEST EDITION) 	c. ALL PROJECTS PERMITTED SECTIONS WITHIN THE FDOT STANDA MINIMUM THICKNESS, OR SPREAD RA REQUIRED FOR ALL PAVING PROJECT	THROUGH BREVARD COUNTY PUBLIC WORKS FOR WORK WITHIN THE COUNTY RIGHT-OF-WAY. RD SPECIFICATIONS LIMITING TESTING REQUIREMENTS BASED ON LOT SIZE, SUB-LOT SIZE, TONNAGE, TE WILL NOT APPLY TO THE PROJECTS LISTED ABOVE. AT A MINIMUM, ONE SET OF TESTS WILL BE TS LARGER THAN 50 TONS TOTAL AND ADDITIONAL TESTING MAY BE REQUIRED ON A CASE BY CASE ING REQUIREMENTS AT THE ASPHALT PLANT WILL NOT APPLY.	2. PRIOR TO START OF CONSTRUCTION DRAWINGS (SIGNED & SEALED BY A F COMPONENTS OF THE CONCRETE BO DRAWINGS SHALL INCLUDE QUANTIT THE DESIGN MUST BE BASED ON FOO FOR ALL WINGWALLS, TOE SLABS & 0
 15. ANY PAVEMENT MARKINGS AND RPM'S THAT ARE DESTROYED, DAMAGED, OR DIMINISHED BY CONSTRUCTION ACTIVITIES FOR UP TO 500 FEET IN EITHER DIRECTION BEYOND THE LIMITS OF CONSTRUCTION SHALL BE REPLACED OR REFURBISHED BY THE CONTRACTOR. 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE COUNTY RIGHT-OF-WAY FOR THE DURATION OF CONSTRUCTION. AT A MINIMUM, THE CONTRACTOR SHALL MOW THE RIGHT-OF-WAY ON AN AS NEEDED BASIS AND MAINTAIN THE DRAINAGE CONVEYANCE SYSTEM. ADDITIONAL MAINTENANCE MAY BE REQUIRED ON A CASE BY CASE BASIS. 	1. THE CONTRACTOR SHALL PROV FLORIDA AND APPROVED BY TH	CIFIED IN THE 2000-2004 FDOT STANDARD SPECIFICATION : IDE A DESIGN MIX SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF E ENGINEER OF RECORD FOR THE PROJECT TO PUBLIC WORKS ENGINEERING FIVE BUSINESS DAYS PRIOR ALL MEET FDOT MINIMUM REQUIREMENTS AS OUTLINED IN SECTION 331-4 (2000). DESIGN MIXES BY FDOT NOT BE ACCEPTED.	3. ALL BOX CULVERT MATERIALS THAT PASS INITIAL INSPECTIONS) PRIOR T
TRAFFIC CONTROL		IDE EXTRACTION/GRADATION TESTS IN ACCORDANCE WITH SECTION 331-4.4.2 (2000). IDE MARSHALL STABILITY TESTING IN ACCORDANCE WITH SECTION 331-5.5.1 (2000).	PERMITTED. 6. REFER TO FDOT INDEX 292 FOR PRE
 MOT PLAN REVIEW: A PROJECT-SPECIFIC MAINTENANCE OF TRAFFIC (MOT) PLAN OR ROADWAY CLOSURE MOT/DETOUR PLAN MUST BE SUBMITTED TO BREVARD COUNTY TRAFFIC OPERATIONS (321-633-2077) FOR APPROVAL A MINIMUM OF TWO (2) WEEKS PRIOR TO START OF CONSTRUCTION. THE MOT PLAN SHALL BE IN ACCORDANCE WITH MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND FDOT STANDARD INDEX 600 SERIES, (LATEST EDITIONS). PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS OR VMS) MAY BE REQUIRED TO 		ET ALL REQUIREMENTS SPECIFIED IN SECTION 330-13 (2000). IDE SURFACE TOLERANCE TESTING FOR ROADWAYS WITH DESIGN SPEEDS OF 35 MPH OR GREATER IN 30-13.3 (2000).	NOTES (SHEET 2 OF 14), AND WELD 7. REFER TO FDOT INDEX 289 FOR CO 8. REFER TO FDOT INDEX 291 FOR SUF
SUPPLEMENT THE STANDARD MOT SIGNAGE. 2. <u>ROAD CLOSURES:</u> THE CONTRACTOR SHALL NOTIFY BREVARD COUNTY TRAFFIC OPERATIONS (321-633-2077) A MINIMUM OF TWO (2)	6. QUALITY CONTROL CORE BORIN SECTION 330-11, TABLE 330-3 (24	IGS SHALL BE OBTAINED FOR THICKNESS PER SECTION 330-2.2 <u>ROADWAY</u> , (2004) AND DENSITY PER 000).	9. IF REQUIRED, BY-PASS PUMPING AN CONSTRUCTION.
WEEKS IN ADVANCE OF THE PROPOSED START DATE OF CONSTRUCTION WITHIN THE RIGHT-OF-WAY, FOR EACH PHASE OF CONSTRUCTION, IF APPLICABLE. CONSTRUCTION SHALL NOT BEGIN UNTIL THE MOT PLAN IS APPROVED AND NOTIFICATIONS HAVE BEEN SENT TO AFFECTED AGENCIES. CERTAIN LOCATIONS MAY REQUIRE WORK IN THE RIGHT-OF-WAY TO BE PERFORMED AT NIGHT ONLY.		ACH CORE TAKEN ARE REVIEWED ON AN INDIVIDUAL BASIS FOR THICKNESS AND DENSITY. THICKNESS IOT BE ACCEPTED. NO UNDER TOLERANCE FOR THE THICKNESS OF EACH ASPHALT CORE WILL BE	
	IG PROGRAM	DATE:	APPROVED BY: RICHARD B. SZPYRKA, P.E.
4. Ph. (321) 637-54	UNTY BOARD OF COUNTY COMMISS I JAMIESON WAY, RM. 204, BLDG. A, VIERA 437, Fx. (321) 633–2083	OCTOBER 2012	ENGINEERING PROGRAM MANAGER
	dmunds)	CRANE CREEK M-1 CANAL FLOW RESTORATION	BREVARD COUNTY PU
A 12/20/19 REVISED PER COWM RK RK RK CERTIFICATE OF AUT TR. DATE REVISIONS BY APPRD. CHECKED R KOLLER 730 NE WALDO ROAD, GAINESVILLE 8657 BAYPINE ROAD SUITE 300, JACKS	THORIZATION #1841 E, FLORIDA 32641 / (352) 377-5821	ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT	ENGINEERING STD DEVEL

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ECIFIED IN THE 2010 FDOT STANDARD SPECIFICATION :						
DOT APPROVED DESIGN MIX, APPROVED BY THE ENGINEER OF RECORD FOR THE PROJEC NESS DAYS PRIOR TO PAVING. THE MIX DESIGN SHALL MEET FDOT MINIMUM REQUIREMEN	-					
D). DESIGN MIXES BY FDOT CERTIFIED MIX DESIGNERS THAT ARE NOT FDOT APPROVED W	VILL NC	т				
DATION AND BINDER CONTENT TESTING IN ACCORDANCE WITH SECTION 334-5. (2010) HO ROJECT LOCATION IN LIEU OF AT THE ASPHALT PLANT AS SPECIFIED. RESULTS MUST BE	WEVEF	٦,				
WEEK AFTER THE COMPLETION OF PAVING.						
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CORE TAKEN ARE REVIEWED ON AN INDIVIDUAL BASIS FOR THICKNESS AND DENSITY. THICKNESS AND DENSITY. THICKNESS AND DENSITY.		s				
ABLE 334-5, NOTE 2, OF SECTION 334-5 (2010) WILL NOT BE ACCEPTED. NO UNDER TOLER CORE WILL BE ALLOWED.	ANCE					
EQUIREMENTS SPECIFIED IN SECTION 330-12 (2010).						Е
LITY CONTROL SURFACE TOLERANCE TESTING FOR ROADWAYS WITH DESIGN SPEEDS OF 12 (2010).	F 35 MP	ΥH				
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VIDE AN FDOT APPROVED DESIGN MIX, APPROVED BY THE ENGINEER OF RECORD FOR TH						
NG FIVE BUSINESS DAYS PRIOR TO PAVING. THE MIX DESIGN SHALL MEET FDOT MINIMUM N 337-4 (2010). DESIGN MIXES BY FDOT CERTIFIED MIX DESIGNERS THAT ARE NOT FDOT	И					
DATION AND BINDER CONTENT TESTING IN ACCORDANCE WITH SECTION 337-5 & 337-6 (20)10) тu	E				
ECT LOCATION IN LIEU OF AT THE ASPHALT PLANT AS SPECIFIED. RESULTS MUST BE PROVER THE COMPLETION OF PAVING.		_				
EQUIREMENTS SPECIFIED IN SECTION 330-12 (2010).						
L BE OBTAINED FOR THICKNESS TESTING USING SECTION 334-5.2.3 (2010).						
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FC-9.5 & FC-12.5 AS SPECIFIED IN THE 2010 FDOT STANDARD SPECIFICATIO DOT APPROVED DESIGN MIX, APPROVED BY THE ENGINEER OF RECORD FOR THE PROJEC						D
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DATION AND BINDER CONTENT TESTING IN ACCORDANCE WITH SECTION 337-5 & 337-6 (20 ECT LOCATION IN LIEU OF AT THE ASPHALT PLANT, AS SPECIFIED. RESULTS MUST BE PRO		E				
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LITY CONTROL, DENSITY, AND THICKNESS TESTING IN ACCORDANCE WITH SECTIONS 337	-1, 337-	-3,				•
ORE TAKEN ARE REVIEWED ON AN INDIVIDUAL BASIS FOR THICKNESS AND DENSITY. THIC ABLE 334-5, NOTE 2, OF SECTION 334-5 (2010) WILL NOT ACCEPTED. NO UNDER TOLERAN						
E WILL BE ALLOWED.						
EQUIREMENTS SPECIFIED IN SECTION 330-12 (2010). LITY CONTROL SURFACE TOLERANCE TESTING FOR ROADWAYS WITH DESIGN SPEEDS OF	F 35 MP	ч				
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ONCRETE BOX CULVERT NOTES						
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H FDOT DESIGN STANDARDS (LATEST EDITION), FDOT STANDARD SPECIFICATIONS FOR R DITION), AND BREVARD COUNTY STANDARDS.	IOAD					
E SITE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING STRUCTURAL ENGINEERIN FESSIONAL ENGINEER LICENSED & REGISTERED IN THE STATE OF FLORIDA) FOR ALL	NG					
ULVERTS, INCLUDING WINGWALLS, TOE SLAB & CUTOFF WALLS, AND HEADWALLS. THE TABULATIONS FOR CLASS IV CONCRETE (CUBIC YARDS), AND REINFORCING STEEL (POUN	NDS).					
LOAD & RESISTANCE FACTOR DESIGN (LRFD) PROGRAM . SEPARATE DRAWINGS ARE REC DFF WALLS, AND HEADWALLS, WHICH MUST BE CAST-IN-PLACE PER FDOT SPECIFICATION)				
TO BE INSTALLED UNDER ROADWAYS AND/OR DRIVEWAYS ARE TO BE DELIVERED TO SIT ART OF DEMOLITION OF EXISTING SYSTEM.	re (and)				
E) REQUIREMENTS: CLASS IV (5500 PSI).						
STM A615 GRADE 60 DEFORMED BAR UNLESS OTHERWISE NOTED, WITH A MINIMUM CLEAF ISE SHOWN. EQUAL AREA SUBSTITUTION OF WELDED WIRE (WWR) REINFORCEMENT IS	RANCE				လ	
ISE SHOWN. EQUAL AREA SUBSTITUTION OF WELDED WIRE (WWR) REINFORCEMENT IS					DOCUMENT	
T CONCRETE BOX CULVERT SLAB & WALL THICKNESSES, REINFORCEMENT AREAS, GENEF RE REINFORCEMENT BENDING DIAGRAMS (SHEET 14 OF 14).	RAL				M	
TE BOX CULVERT DETAILS RELATED TO LRFD.					າວ	в
IENTAL DETAILS FOR PRECAST CONCRETE BOX CULVERTS.						
PIPING SHALL BE APPROVED BY BREVARD COUNTY PUBLIC WORKS PRIOR TO THE STAR	T OF				BID	
					أسقي	
BREVARD COUNTY PUBLIC WORKS ENGINEERIN		SHEET				
STANDARD DEVELOPMENT NOTES		1 ^{OF} 1				
CERTIFICATE OF AUTHORIZATION #1841	PROJ	ECT NO:		DATE:		Α
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PMENT NOTES	INDEX		•	DWG NO:		
A. GOODDEN P.E. # 60097	{			GS)	
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NOTES:

- 1. "W" SHALL BE A MINIMUM OF 6" WIDE AND OF SUFFICIENT WIDTH TO ACCOMMODATE NECESSARY COMPACTION EFFORTS. IN THE EVENT THE REQUIRED MINIMUM DENSITY IS NOT ACHIEVED, LOOSE MATERIAL SHALL BE REMOVED, REPLACED AND COMPACTED TO THE REQUIRED DENSITY, OR REPLACED WITH FULL DEPTH FLOWABLE FILL. DENSITY TESTS BELOW THE SPRING LINE OF THE PIPE ARE REQUIRED IN ADDITION TO OTHER TESTING REQUIREMENTS. (IN THE EVENT FULL DEPTH FLOWABLE FILL IS USED AS BACKFILL, DENSITY REQUIREMENTS ARE WAIVED.)
- 2. CONTRACTOR SHALL EXCAVATE BOTTOM OF TRENCH TO ALLOW FOR BELL SECTION OF PIPE.
- 3. MINIMUM ALLOWABLE BACKFILL DENSITY SHALL BE 98% OF THE MAXIMUM DENSITY AT OPTIMUM MOISTURE PER AASHTO T-180. REFER TO EXHIBIT-27 FOR STORMWATER PIPE BACKFILL REQUIREMENTS.
- 4. FLOWABLE FILL SHALL COMPLY WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 121, LATEST EDITION.
- 5. ALL OPEN CUTS SHALL HAVE FLOWABLE FILL AND TEMPORARY ASPHALT INSTALLED WITHIN 2 DAYS OF EXCAVATION. PERMANENT ASPHALT INCLUDING MILLING, IF NEEDED, SHALL BE COMPLETED WITHIN 30 DAYS OF EXCAVATION.
- 6. THESE ARE MINIMUM REQUIREMENTS. ADDITIONAL RESTRICTIONS MAY BE NECESSARY ON A CASE BY CASE BASIS.

ASPHALT ROADWAY OPEN CUT -PAVEMENT REMOVAL AND REPLACEMENT





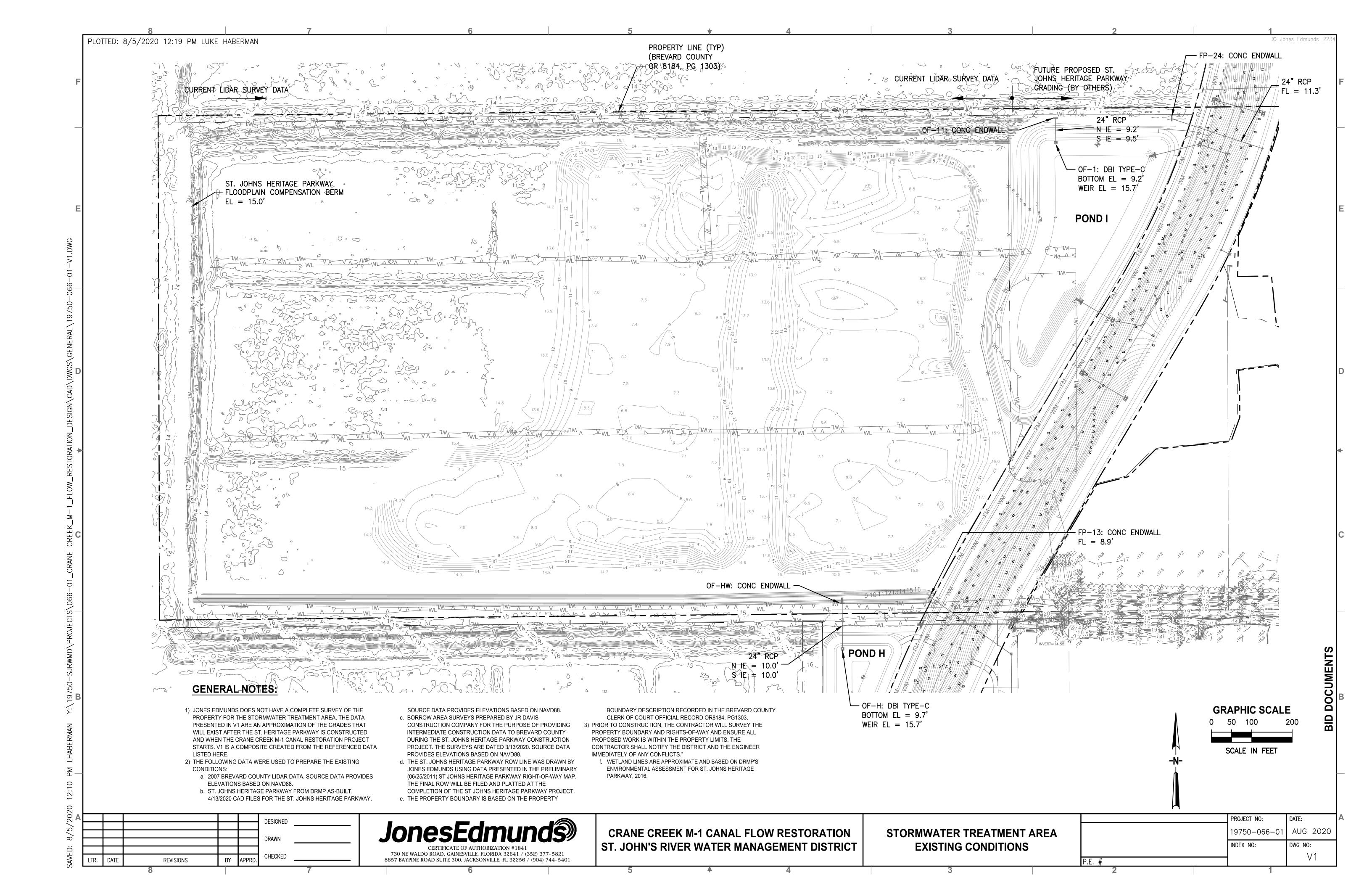
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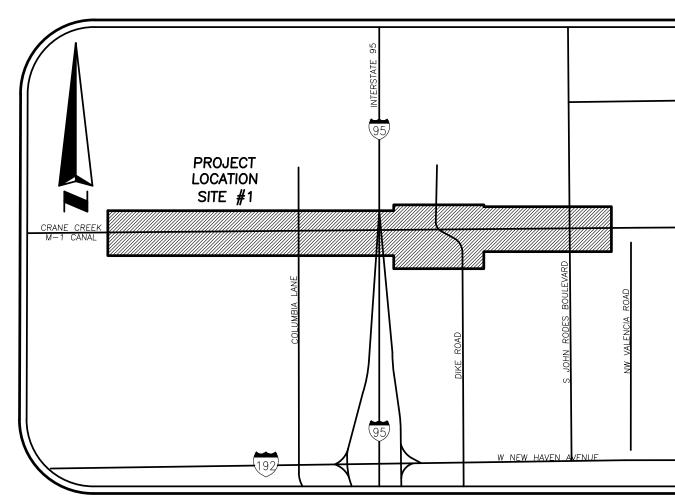
CRANE CREEK M-1 CANAL FLOW RESTORATION ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT

BREVARD COUNTY L DEVELOPMENT EXHI

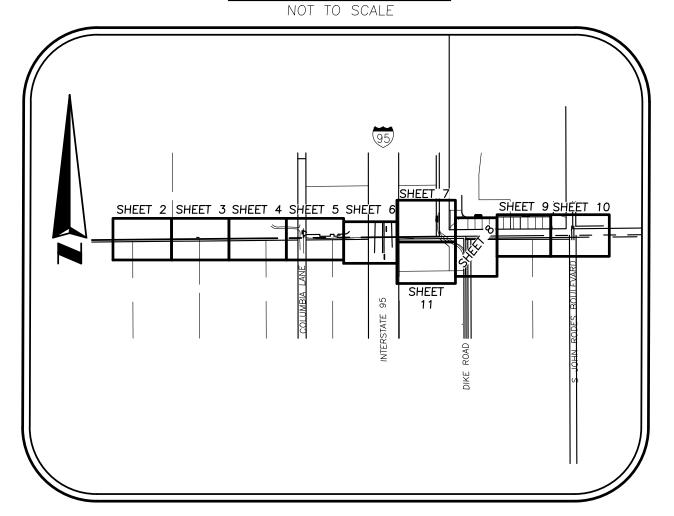
					© Jones Edmunds 22
	12" THICK UNIFORM LIFTS COMPACT	ED TO A MINIM	IUM DENSITY OF	- 98% T-180,	
	FROM TOP OF PIPE TO FINISHED G	GRADE OR BOT	TOM OF BASE N	IATERIAL	
		12" COMPACTE NIMUM DENSIT	D MATERIAL. Y OF 98% T-180		
/		12" COMP	ACTED MATERI	Δ Ι	
			ENSITY OF 98%		
	30" PIPE				
	30		ACTED MATERIA		
		MINIMUM DI	ENSITY OF 95%		SEE CHART BELOW FOR
1	SAMPLE PIPE		TED MATERIAL. SITY OF 95% T-1		PIPE SIZE AND
			511 f OF 95% 1-1		NUMBER OF 6" LIFTS
		" COMPACTED MUM DENSITY			REQUIRED.
			ED MATERIAL		
	· · · · · · · · · · · · · · · · · · ·		<u> </u>		
	IF DISTURBED, COMPACT TO 95% T-180 OR INSTALL #57 STONE MAXIMUM			/	
Τł			NUMBER OF 6"		NUMBER OF 6"
Τł	OR INSTALL #57 STONE MAXIMUM HICKNESS 4". FILTER CLOTH WRAP NOT	PIPE SIZE	NUMBER OF 6" LIFTS	PIPE SIZE	LIFTS
FI E N	OR INSTALL #57 STONE MAXIMUM HICKNESS 4". FILTER CLOTH WRAP NOT REQUIRED FOR 4" THICKNESS OR LESS S: IUMBER OF LIFTS REQUIRED FOR PIPE SIZES	PIPE SIZE	NUMBER OF 6" LIFTS 2	11" x 17"	LIFTS 2
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	CERTIFICATE OF AUTHORIZATION #1841	PROJECT NO:	DATE:	Α
AND	APPROVED BY	19750-066-01	AUG 2020	
BITS	A. GOODDEN	INDEX NO:	dwg no: G10	
1	P.E. # 60097	1]





_SHEET_LAYOUT_SITE # 1

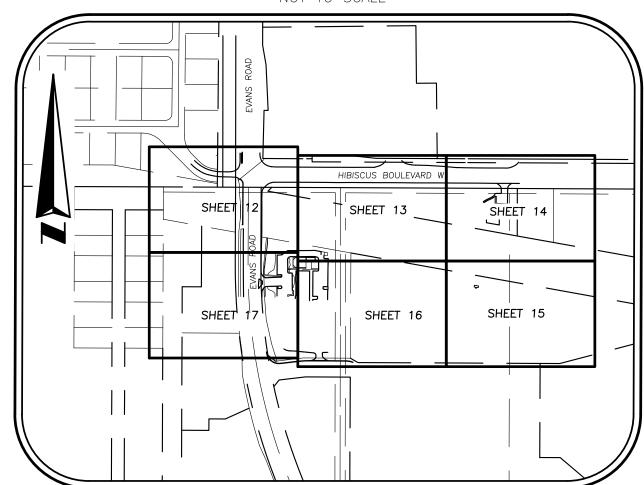


LEGEND & ABBREVIATIONS:

M = MAPLE

-X-	= CHAINLINK FENCE	PLS	= PROFESSIONAL LAND SURVEYOR	AR,	= AIR RELEASE VALVE		= NOM
-0-	= WOOD FENCE	RLS	= REGISTERED LAND SURVEYOR	Û	= BUSH	÷	= SPF
**	= WIRE FENCE	PSM	= PROFESSIONAL SURVEYOR AND MAPPER	Т	= BURIED TELEPHONE PEDESTAL	S	= SEW
***	= BARBED WIRE FENCE	R/W	= RIGHT OF WAY	•	= CONCRETE MONUMENT		= TRA
-BEL-	= BURIED ELECTRIC LINE	GR SILT	= TOP OF SILT ELEVATION	0	= CLEAN OUT	-	= TRA
-BTL-	= BURIED TELEPHONE LINE	DB	= DEED BOOK	-\$-	= COMBINATION UTILITY POLE	TR	= TRA
-COMM-	= COMMUNICATION LINE	ORB	= OFFICIAL RECORDS BOOK	Ď	= DRAINAGE MANHOLE	S	= TRA
-G-	= GAS LINE	PG	= PAGE	E	= ELECTRIC SERVICE METER	(UM)	= UTIL
-OHL-	= OVERHEAD UTILITY LINE	ID	= IDENTIFICATION		= FLAT GRATE INLET	[VAULT]	= VAU
-WL-	= WATER LINE	EOI	= END OF INFORMATION	¢	= FIRE HYDRANT	(W)	= WEL
-FM-	= FORCE MAIN	NAD	= NORTH AMERICAN DATUM	\smile	= DOWN GUY	2	= WAT
-OTC-	= OVERHEAD TRAFFIC CONTROL	NAVD	= NORTH AMERICAN VERTICAL DATUM	Or	= WATER SPIGOT	;₩1	= WAT
	= TREE LINE	TRAV.PT.	= TRAVERSE POINT		= HAND HOLE		
· 0 · · 0 0	= GUARDRAIL	SSMC	 SOUTHEASTERN SURVEYING & MAPPING CORPORATION 	0	= IRON PIPE		
ABS	= ACRYLONITRILE BUTADIENE STYRENE PIPE	TELE	= TELEPHONE	٠	= IRON ROD		
СМР	= CORRUGATED METAL PIPE	FGTC	= FLORIDA GAS TRANSMISSION COMPANY	IRR EX3	= IRRIGATION VALVE		
CPP	= CORRUGATED PLASTIC PIPE	FPL	= FLORIDA POWER & LIGHT COMPANY	≻ ≺	= LIGHT POLE		
PVC	= POLYVINYL CHLORIDE PIPE	SIZE SHOWN	IS TRUNK DIAMETER		= MAILBOX		
RCP	= REINFORCED CONCRETE PIPE	IN INCHES ME	EASURED AT CHEST HEIGHT	\sum	= MITERED END SECTION		
LB	= LICENSED BUSINESS	Mart	\bullet P = PALM	\odot	= NAIL W/DISC		
		m. E	\bullet = TREE		= UTILITY POLE		
		كر	CA = CAMPHOR	•	= POST/BOLLARD		
			O = OAK $PI = PINE$	P	= PUMP		
			UK = UNKNOWN	\boxtimes	= RAILROAD SPIKE		
			E = ELM				

VACINITY MAP NOT TO SCALE	
SHERIDAN ROAD	
CRANE CREEK M-1 CANAL	CRANE CREEK M-1 CANAL
S WICKHAM ROAD	BOULEVARD
	DAYTON
	192



- NON-TRAFFIC SIGN
- SPRINKLER
- SEWER VALVE
- TRAFFIC CONTROLLER CABINET
- TRAFFIC SIGN
- TRANSFORMER ON SLAB
- TRAFFIC SIGNAL SPAN POLE
- UTILITY MARKER
- VAULT
- NELL
- WATER METER
- WATER VALVE

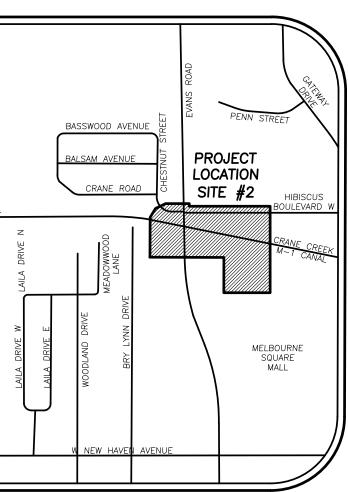
DESCRIPTION: A portion of Section 34, Township 27 South, Range 36 East, Section 03, Township 28 South, Range 36 East, Sections 05 and 06, Township 28 South, Range 37 East, Sections 31 and 32, Township 27 South, Range 37 East, Iying in Brevard County, Florida.

SURVEYOR'S REPORT:

- 4. This survey does not determine ownership of the lands shown hereon.
- 5. Underground foundations have not been located.
- 7. Features shown by symbol as indicated in the legend are not to scale.
- parties.
- 9. Vertical information shown hereon refers to National Geodetic Survey (NGS) point PID#DG8680 havng a recorded elevation of 22.98 feet (NAVD 88)
- distances.
- affecting the parcel as shown.
- 12. Improvements & Topographic features shown hereon are limited to areas per specific instructions of the client.
- Appraisers web site.

NOTICE OF LIABILITY:

This survey is certified to those individuals shown on the face thereof. Any other use, benefit or reliance by any other party is strictly prohibited and restricted. Surveyor is responsible only to those certified and hereby disclaims any other liability and hereby restricts the rights of any other individual or firm to use this survey, without express written consent of the surveyor.



SHEET LAYOUT SITE # 2 NOT TO SCALE

1. Utility locations shown hereon are based on field locations of markings by Southeastern Surveying & Mapping Corp. Field markings are based on signals received from Ground Penetrating Radar (GPR) and electronic equipment. Locations are approximate and Test Holes should be performed for verification. 2. Easements or rights of way that appear on recorded plans or that have been furnished to the surveyor by others have been incorporated into this drawing with appropriate notation. Other easements may be discovered by a search of the Public Records. 3. Minimum Horizontal Accuracy for this survey is in accordance with the STANDARDS OF PRACTICE set forth by the Board of Professional Surveyors and Mappers in Chapter 5J-17 requirements of Florida Administration Code. The map and measurement methods used for this survey meet or exceed this requirement. The dimensions shown hereon are in United States survey feet and decimals thereof.

6. Survey map and report or the copies thereof are not valid without the signature and the original raised seal of a Florida Licensed Surveyor and Mapper.

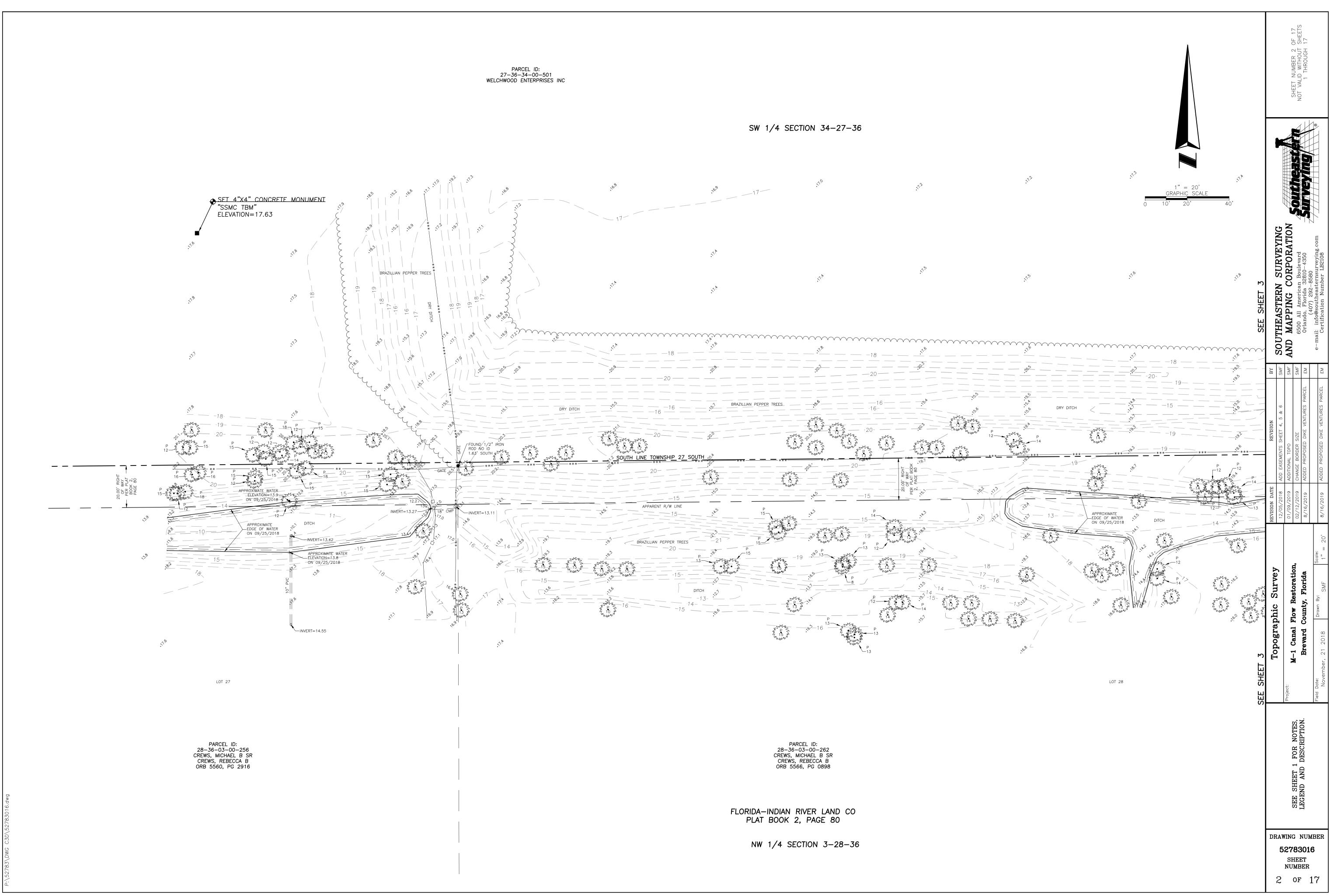
8. Additions or deletions to survey maps or reports by other than the signing party or parties is prohibited without written consent of the signing party or

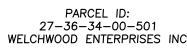
10. Horizontal positions for all features shown on the map are relative to North American Datum of 1983 (NAD83), 2011 adjustment, State Plane Coordinate System, Florida East Zone. Control point(s) used for this survey are National Geodetic Survey (NGS) points PID#DG8680; distances shown are GRID

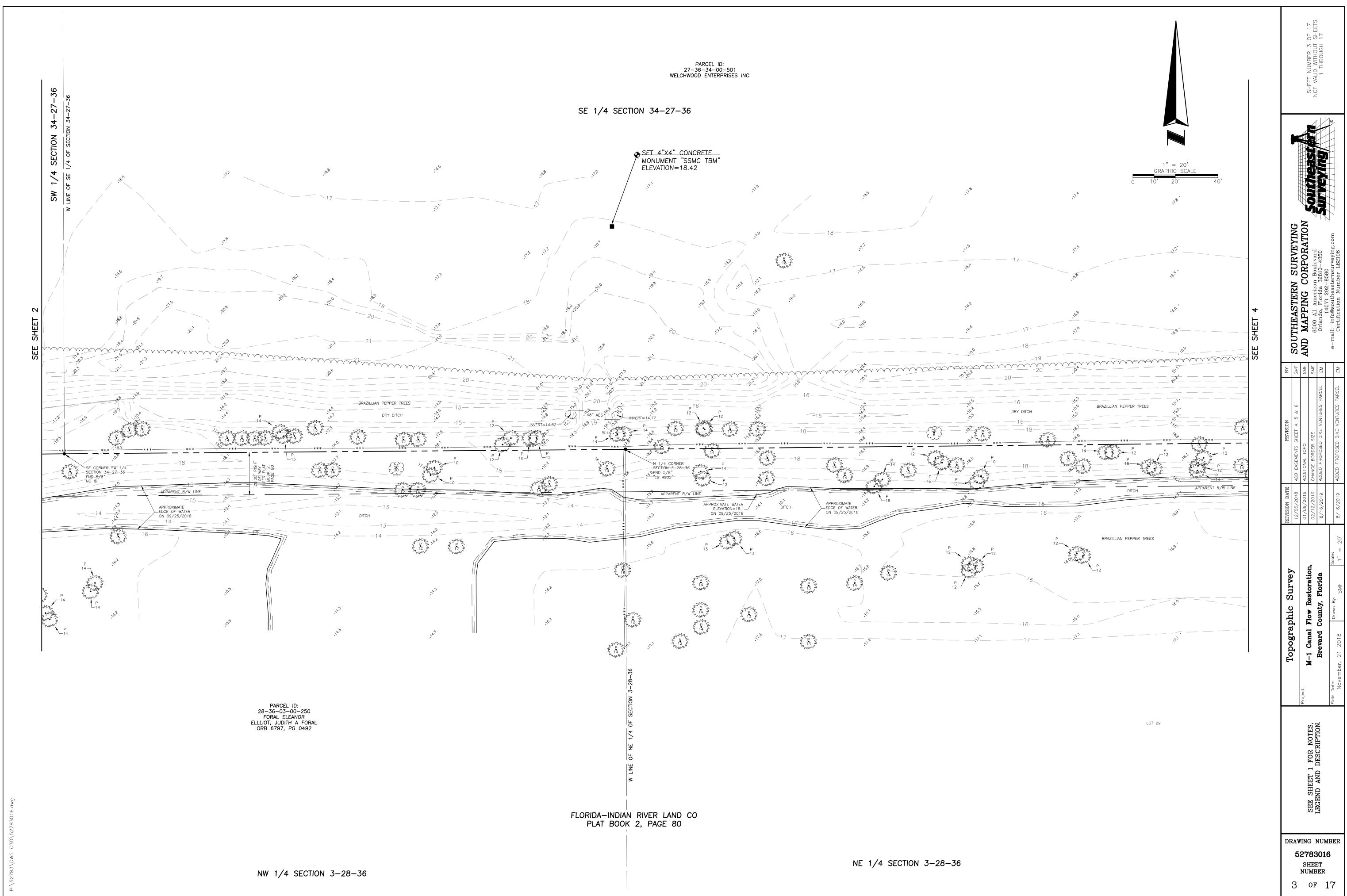
11. This Survey was performed without benefit of an abstract, title search, title opinion or title commitment. A title search may reveal additional information

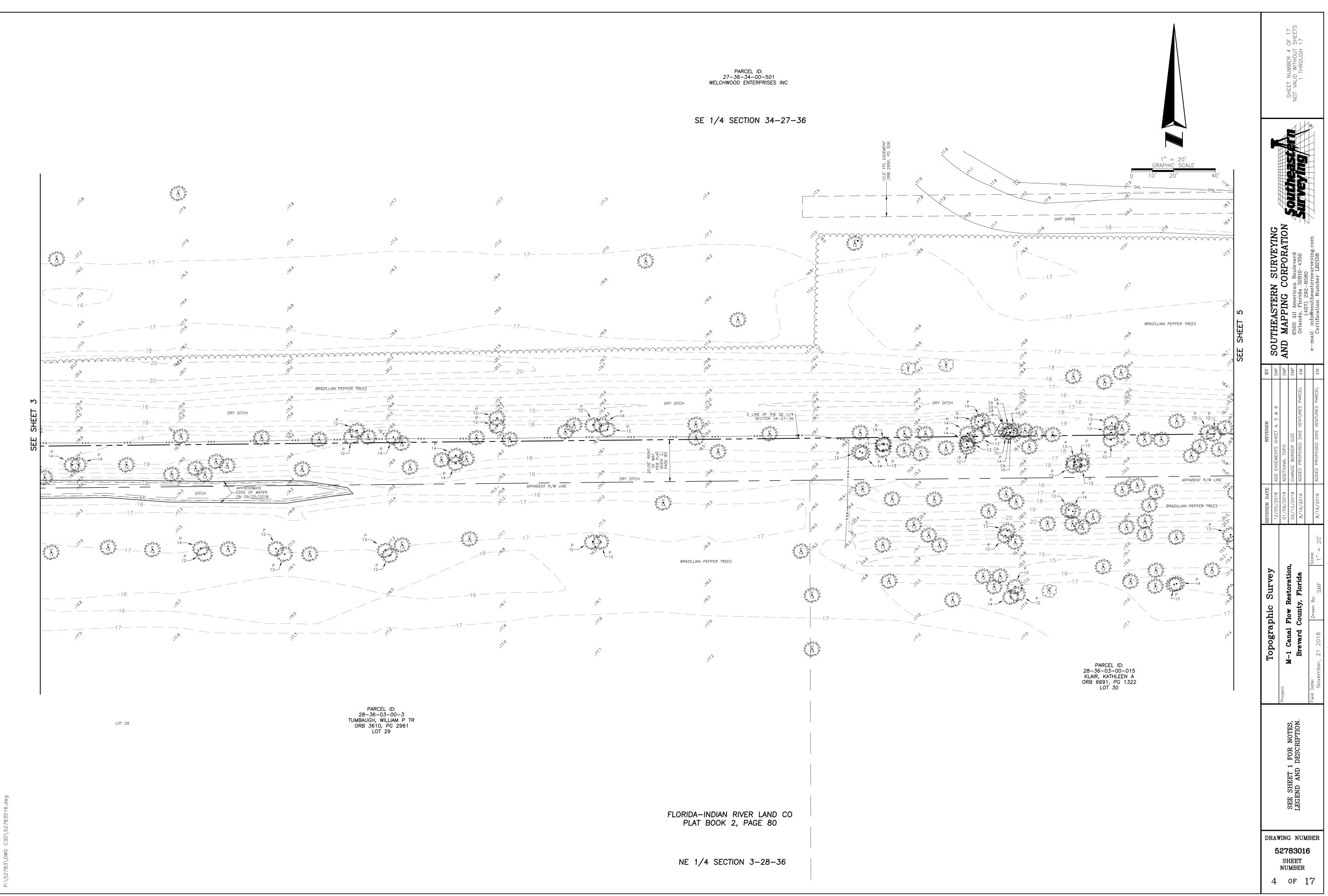
13. Right of Way information shown hereon was determined by found monumentation, recorded plats and information obtained on the Brevard County Property

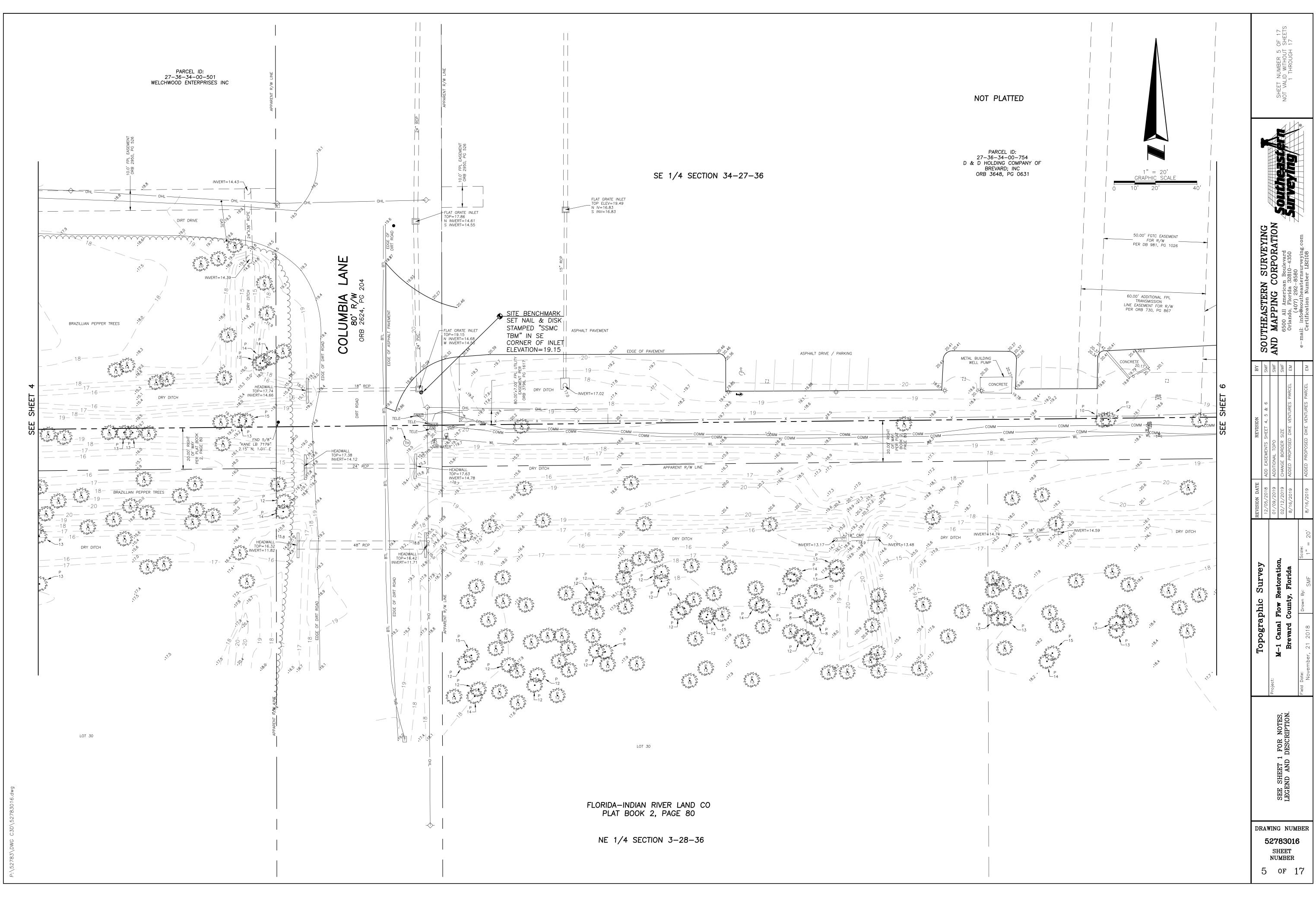
		2	, (.			RYAN E. JOHNSON, DOM Regretered Land Burveyor Number 7130
	ł			Sourneastern	Surveying/	
		SOUTHEASTERN SURVEYING	AND MAPPING CORPORATION	6500 All American Boulevard	Orlando, Florida 32810-4350 (102) 202 2500	e-mail: info@southeasternsurveying.com Certification Number LB2108
DH	ВΥ	SMF	SMF	SMF	CEL EM	17
ADDED TEST HOLES 1-10	REVISION	12/05/2018 ADD EASEMENTS SHEET 4, 5 & 6	ADDITIONAL TOPO	02/12/2019 CHANGE BORDER SIZE	8/16/2019 ADDED PROPOSED DIKE VENTURES PARCEL	SHEET NUMBER 1 OF 17 NOT VALID WITHOUT SHEETS 1 THROUGH 17
09/17/2019	REVISION DATE	12/05/2018	01/09/2019 ADDITIONAL TOPO	02/12/2019	8/16/2019	NOT VALI
	Tonographic Survey			M-I Canal Flow Restoration,	Brevard County, Florida	ate: Scale: Scale: November, 21 2018 SMF 1" = 20'
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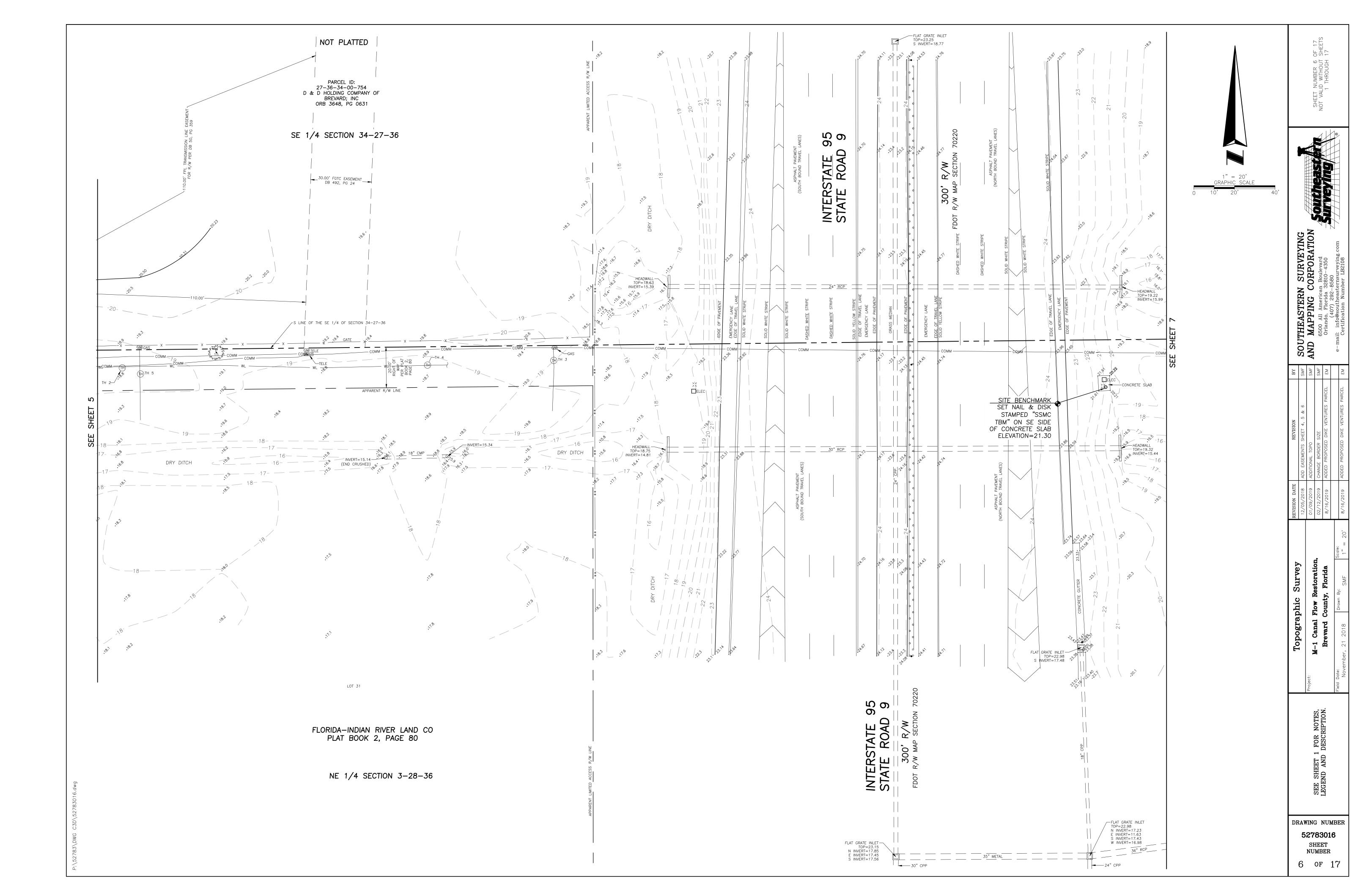


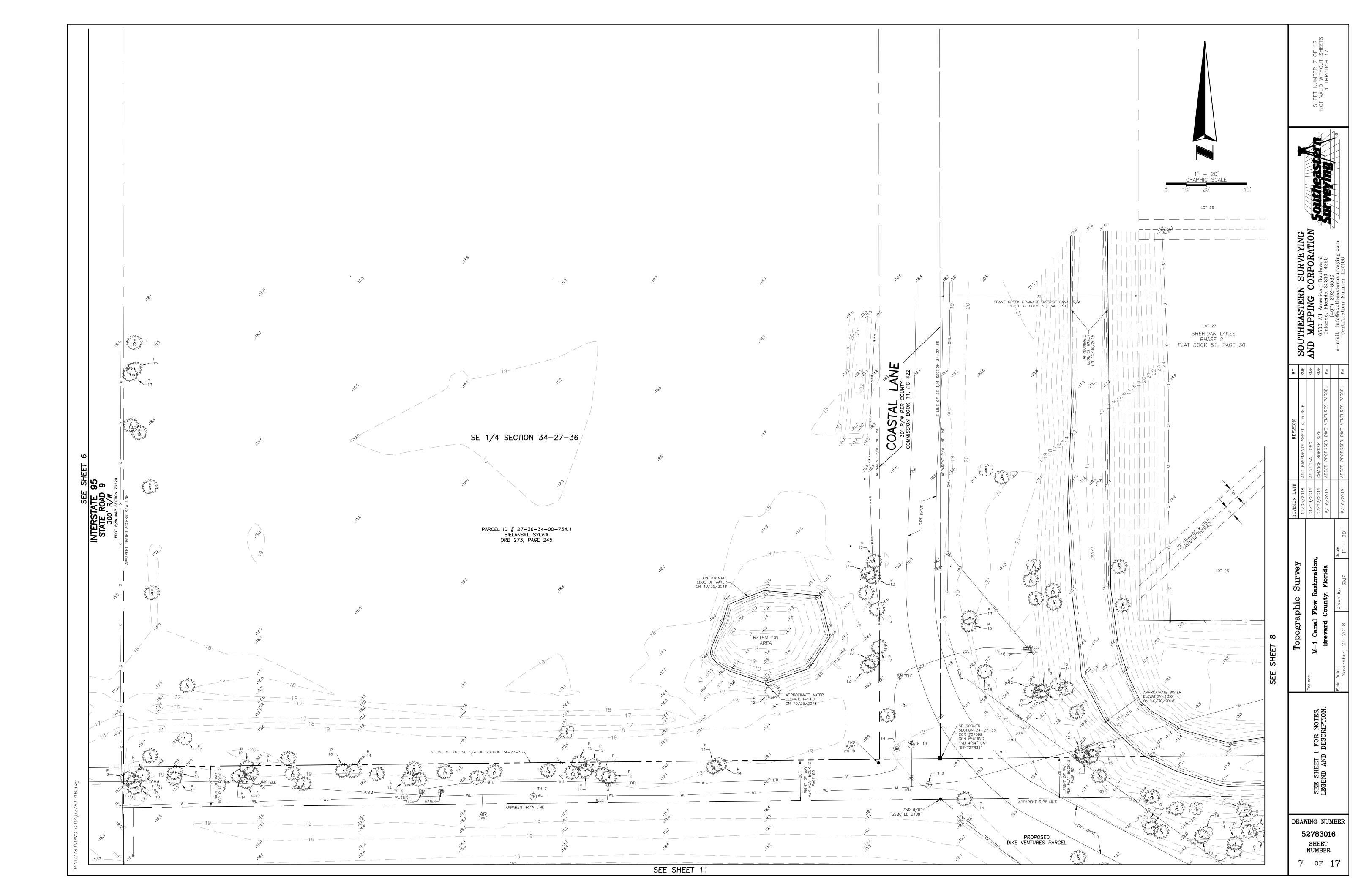


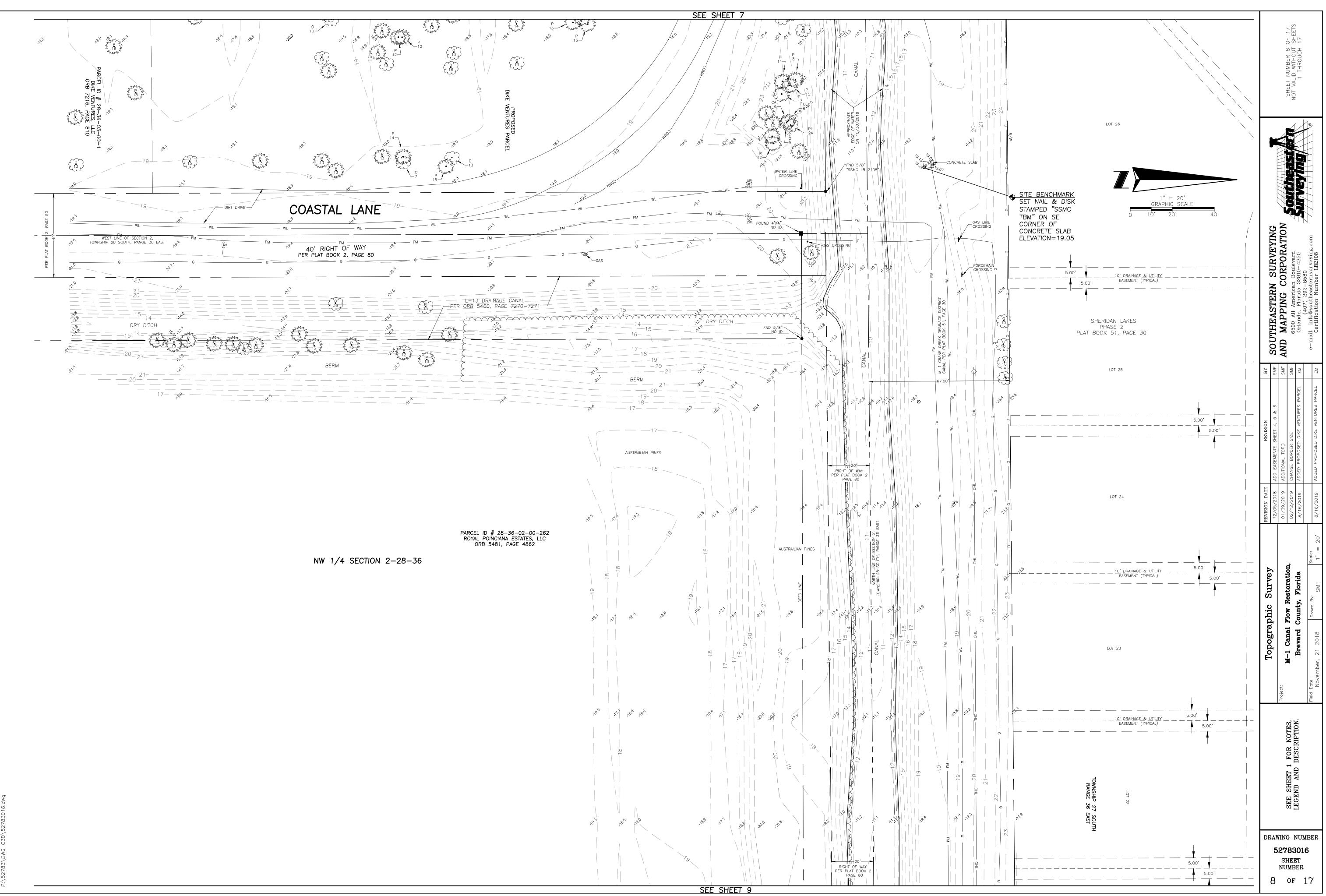




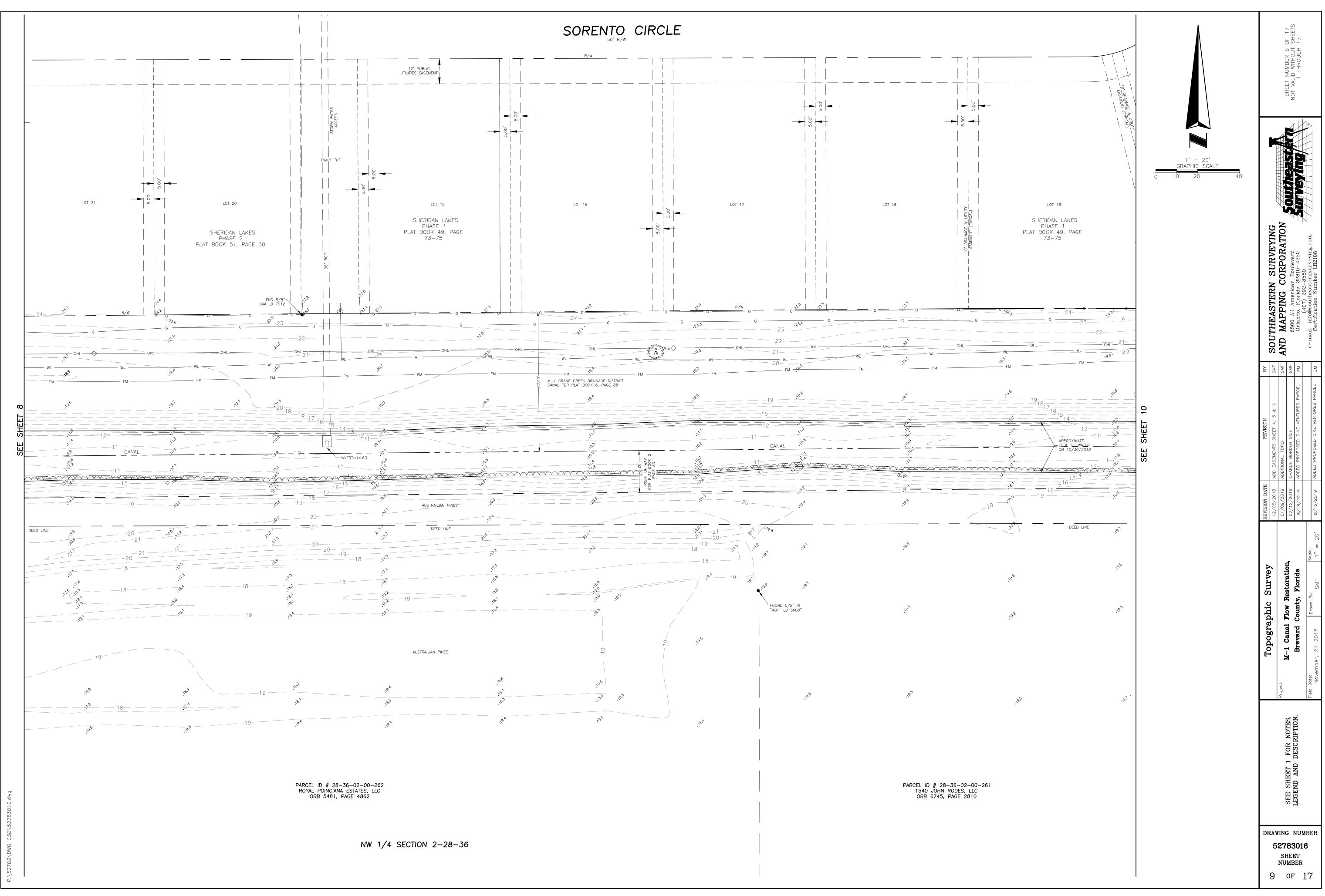


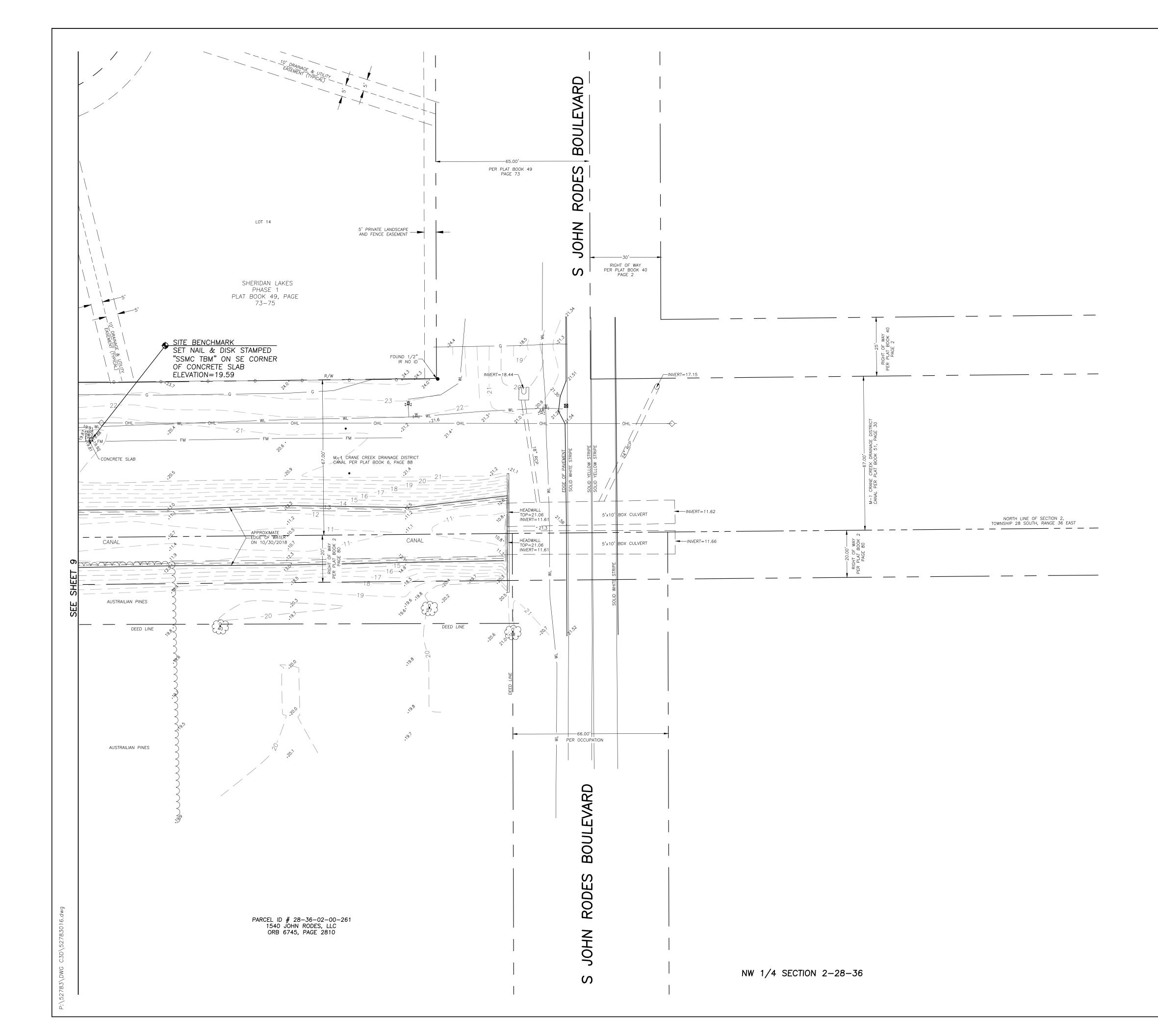




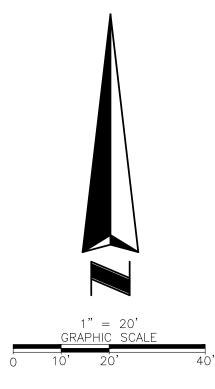


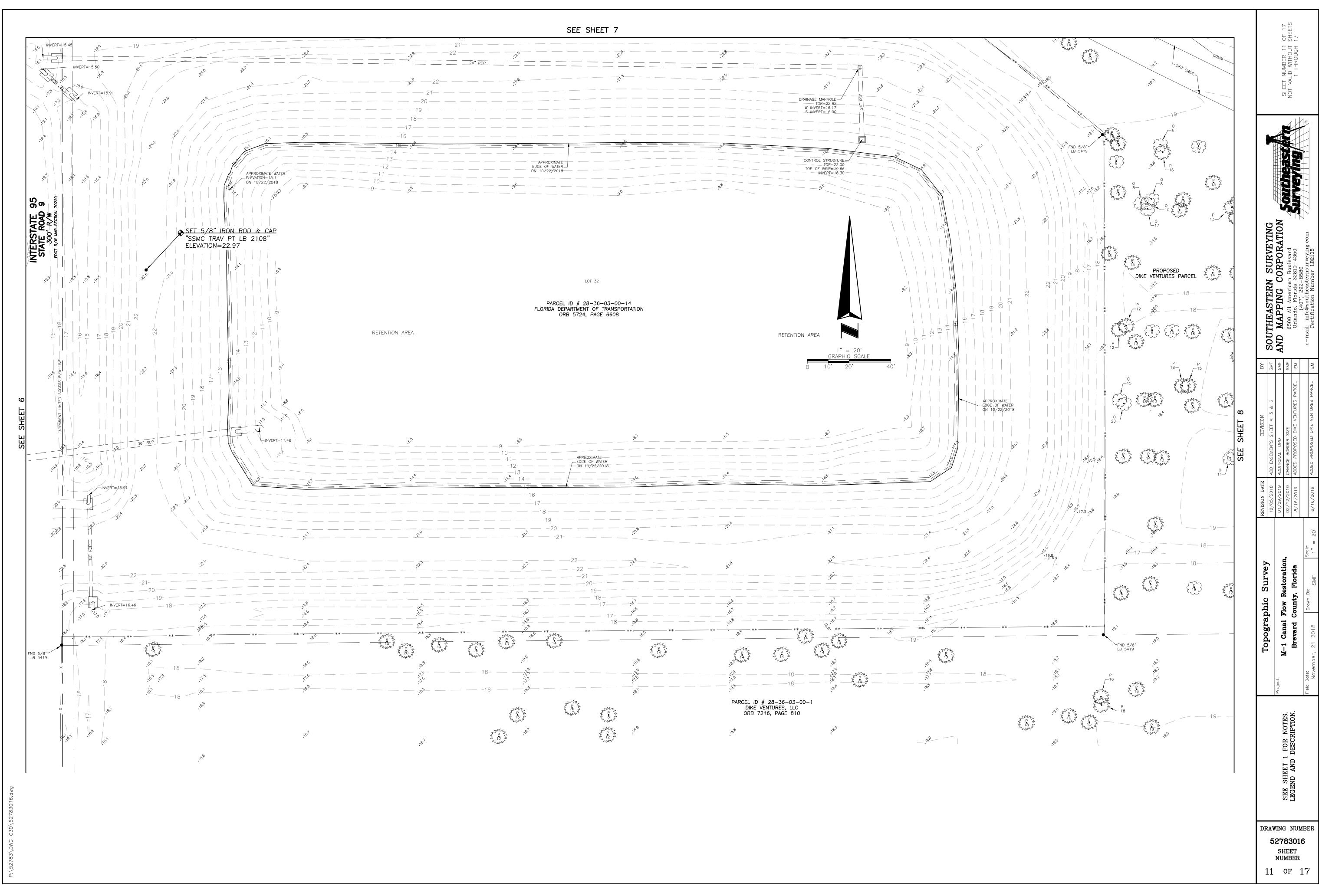


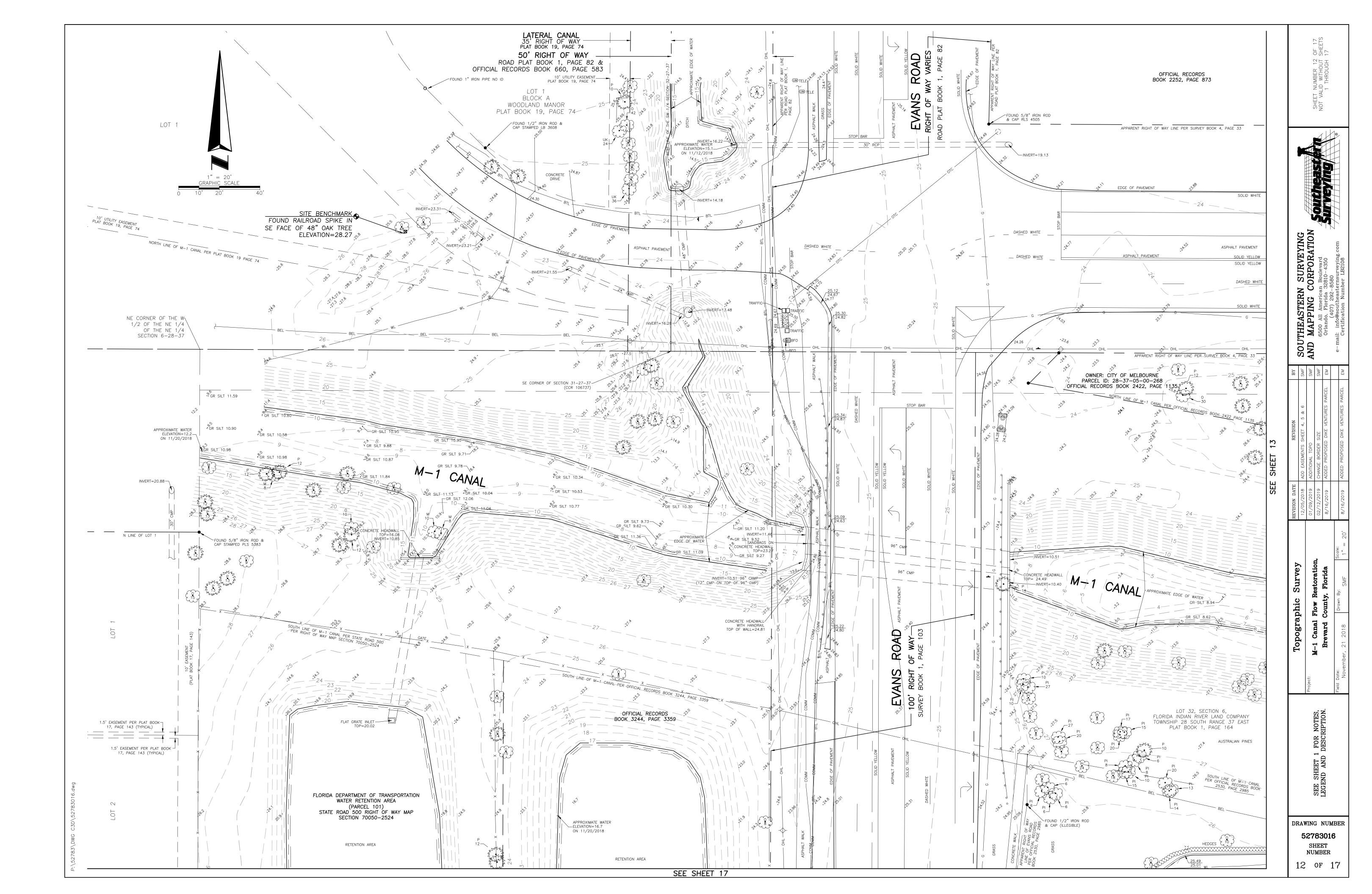


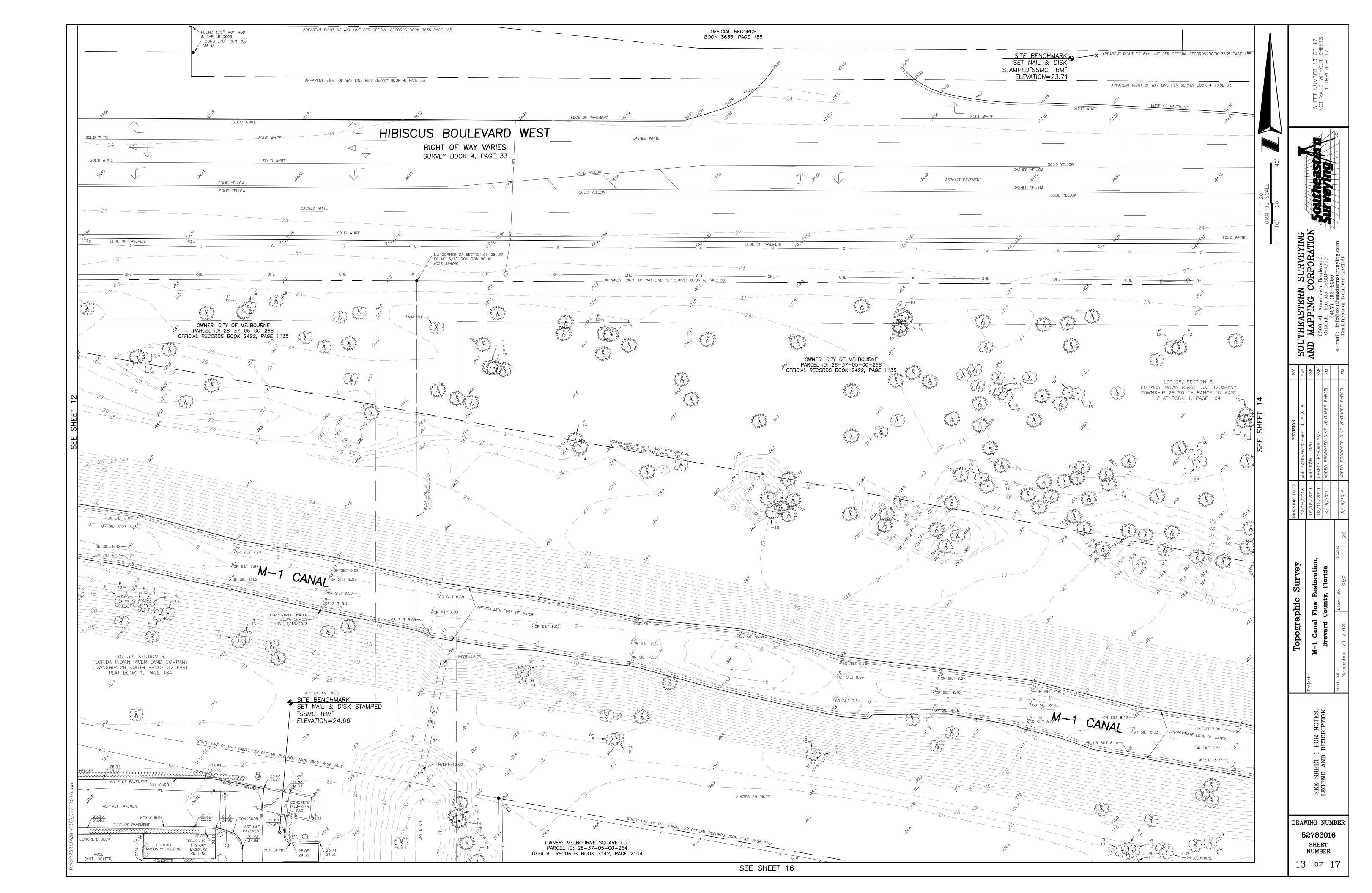


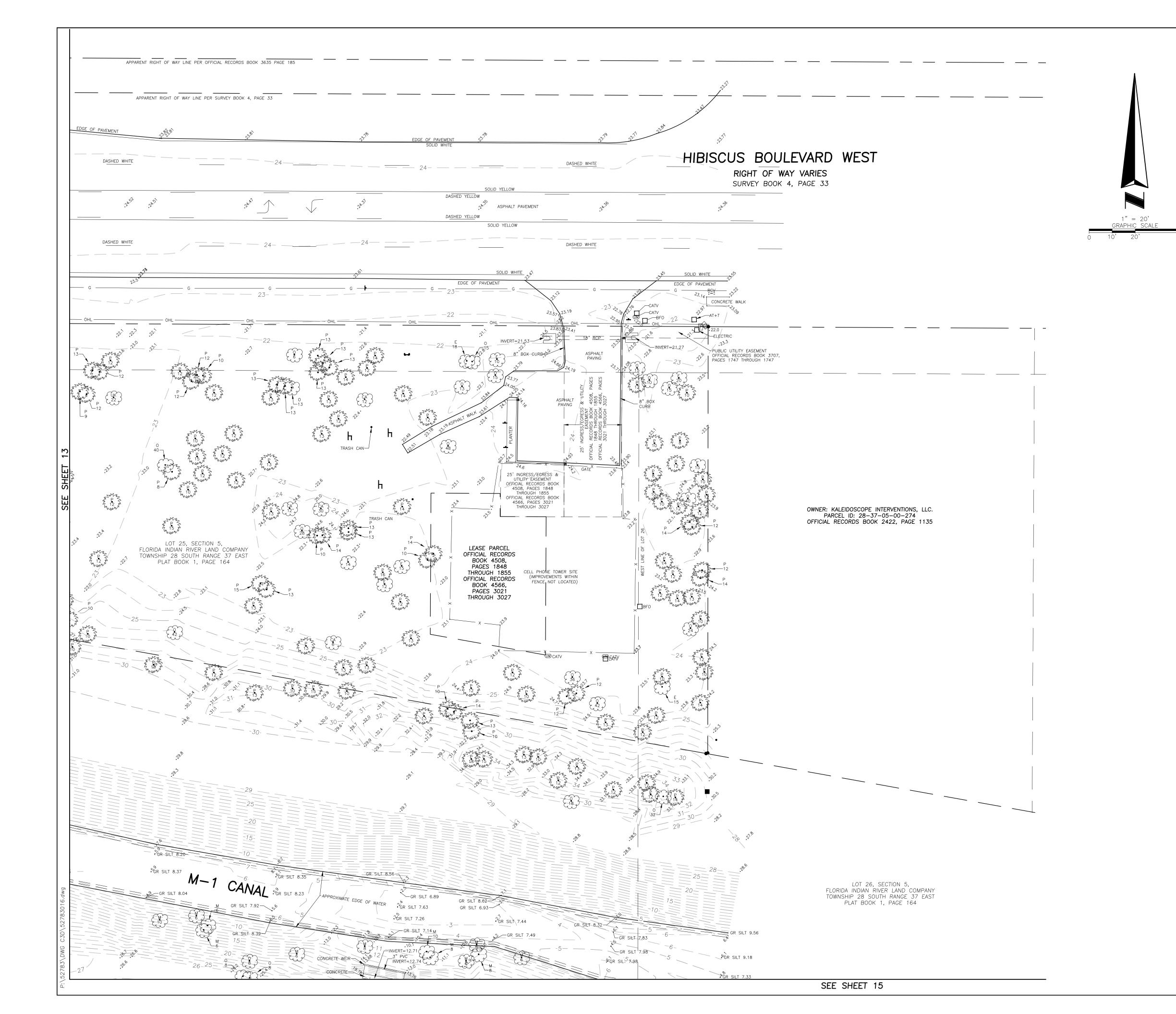
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e-mail: info@southeasternsurveying.com Certification Number LB2108	Orlando, Florida 32810-4350 (407) 292-8580	6500 All American Boulevard	AND MAPPING CORPORATION	SOUTHEASTERN SURVEYING	
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8/16/2019 ADDED PROPOSED DIKE VENTURES PARCEL	8/16/2019 ADDED PROPOSED DIKE VENTURES F	02/12/2019 CHANGE BORDER SIZE	01/09/2019 ADDITIONAL TOPO	12/05/2018 ADD EASEMENTS SHEET 4, 5 & 6	REVISION DATE REVISION
Field Date: Scale: Scale: 8/1 November, 21 2018 SMF 1" = 20' 8/	Brevard County, Florida	11,			Topographic Survey
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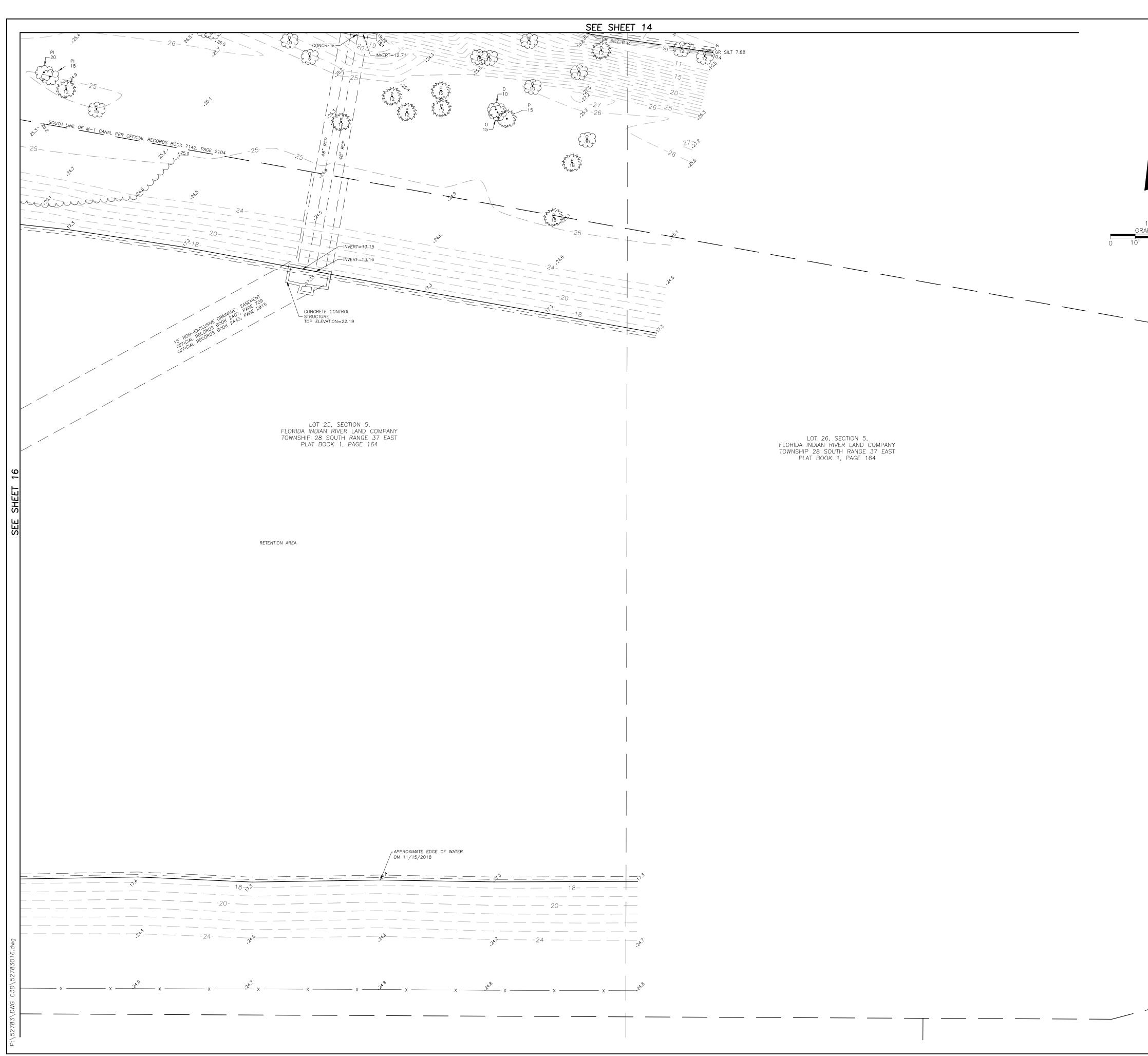




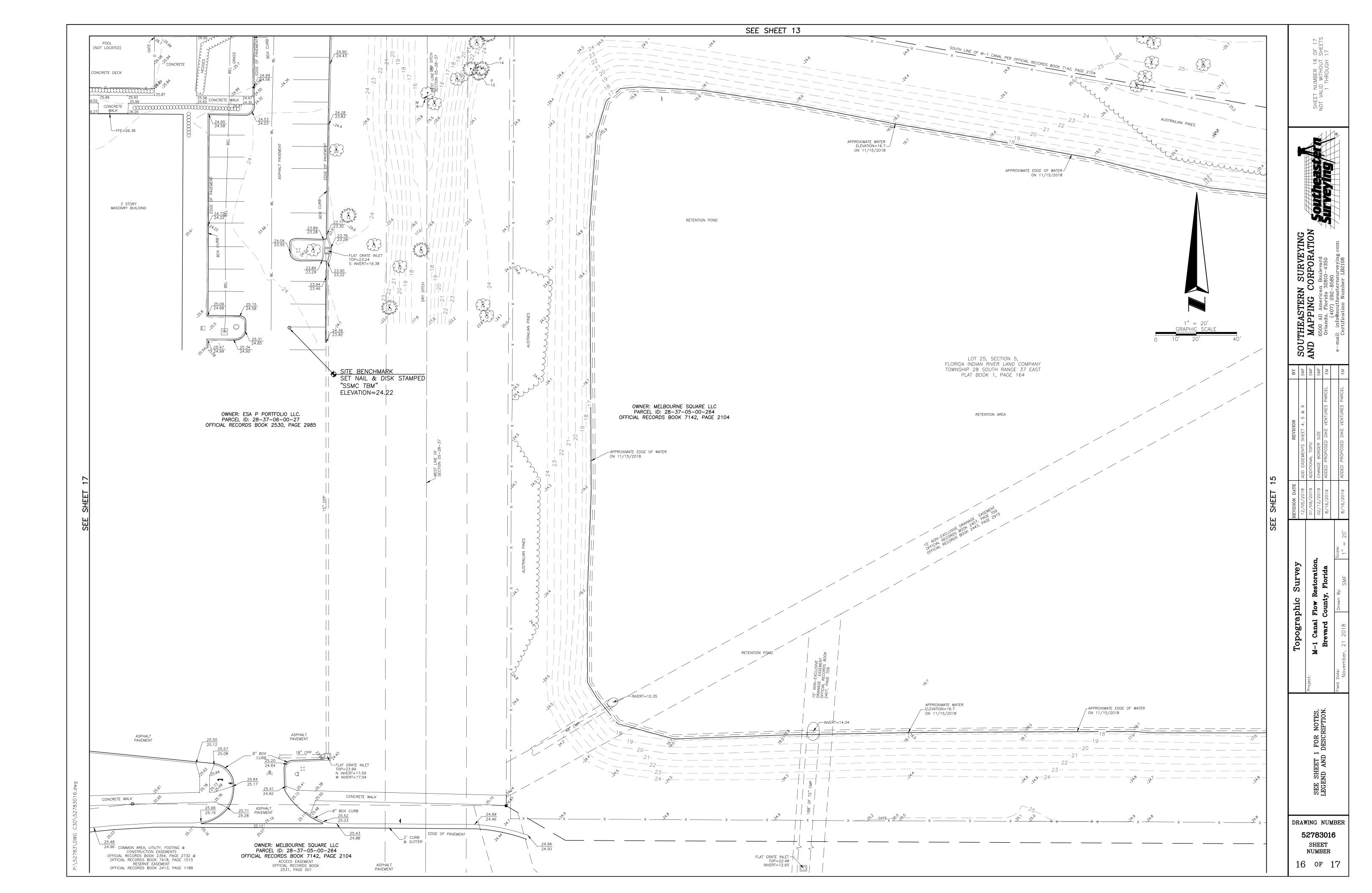


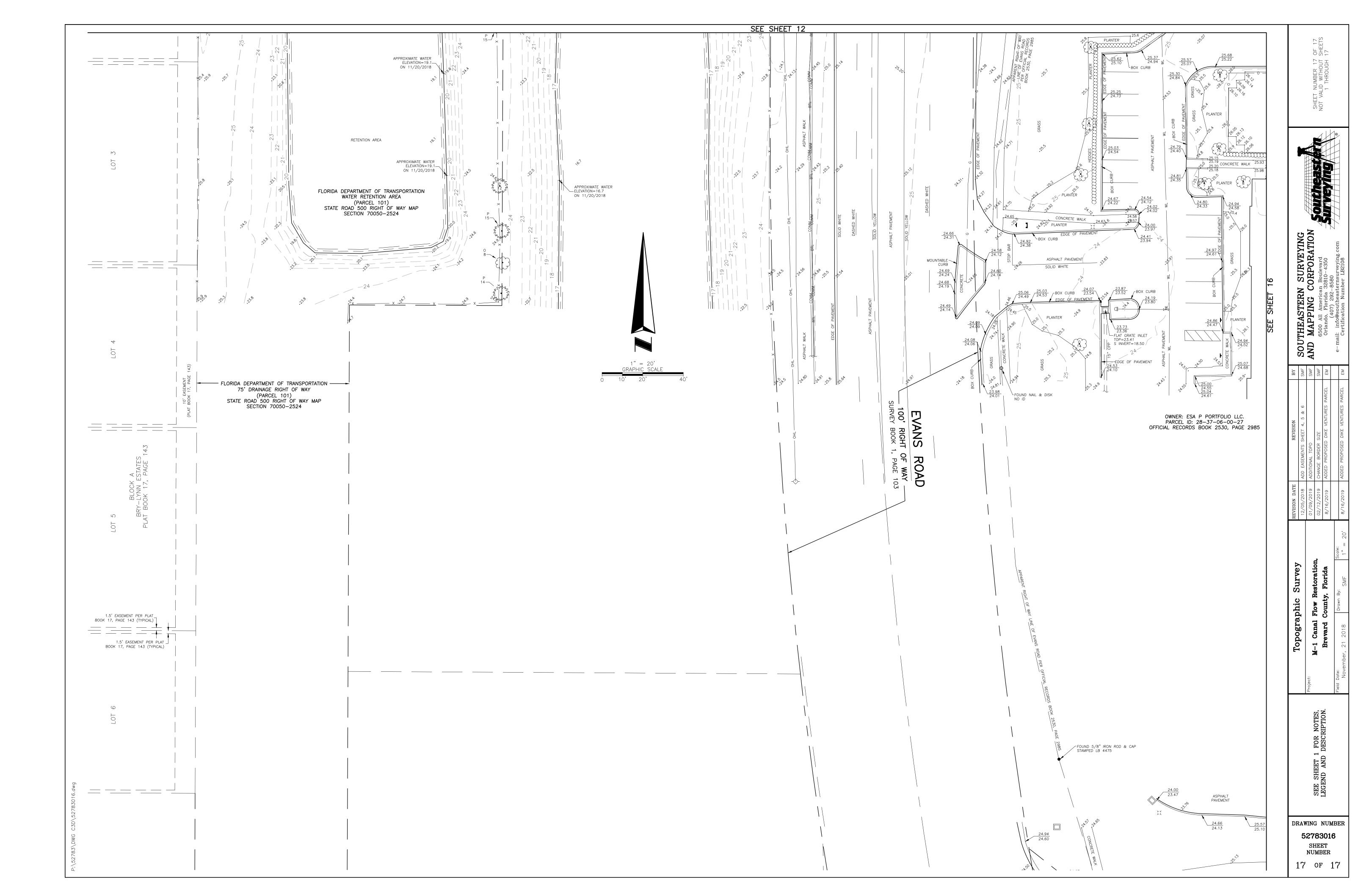


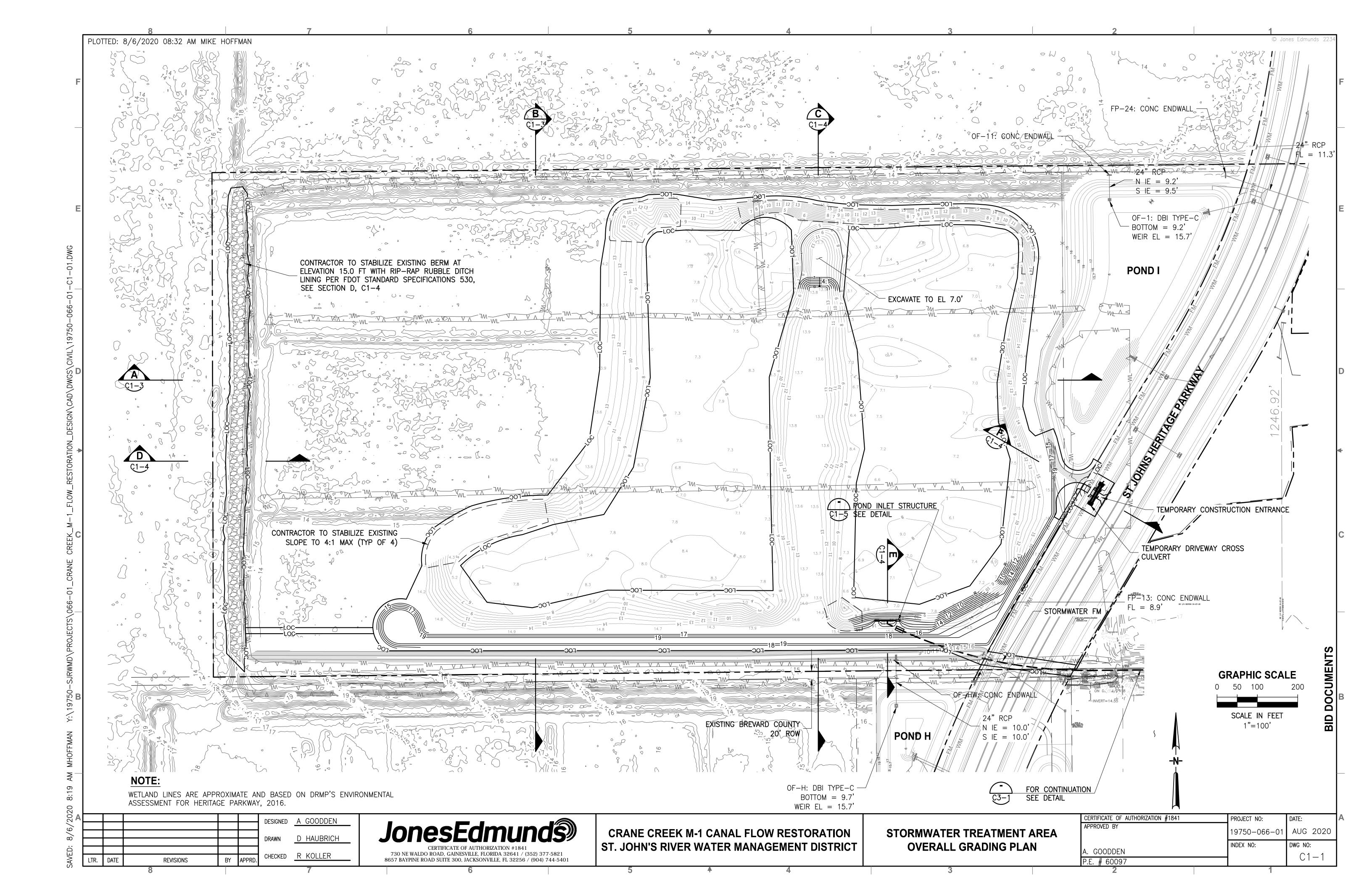
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SOUTHEASTERN SURVEYING AND MAPPING CORPORATION 6500 All American Boulevard 0rlando, Florida 32810-4350 (407) 292-8580 e-mail: info@southeasternsurveying.com Certification Number LB2108
REVISION DATEREVISIONBYNameREVISIONBY12/05/2018ADD EASEMENTS SHEET 4, 5 & 6SMF01/09/2019ADDITIONAL TOPOSMF02/12/2019CHANGE BORDER SIZESMF8/16/2019ADDED PROPOSED DIKE VENTURES PARCELEM8/16/2019ADDED PROPOSED DIKE VENTURES PARCELEM8/16/2019ADDED PROPOSED DIKE VENTURES PARCELEM
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SEE SHEET 1 FOR NOTES, LEGEND AND DESCRIPTION.
drawing number 52783016 Sheet Number 14 of 17

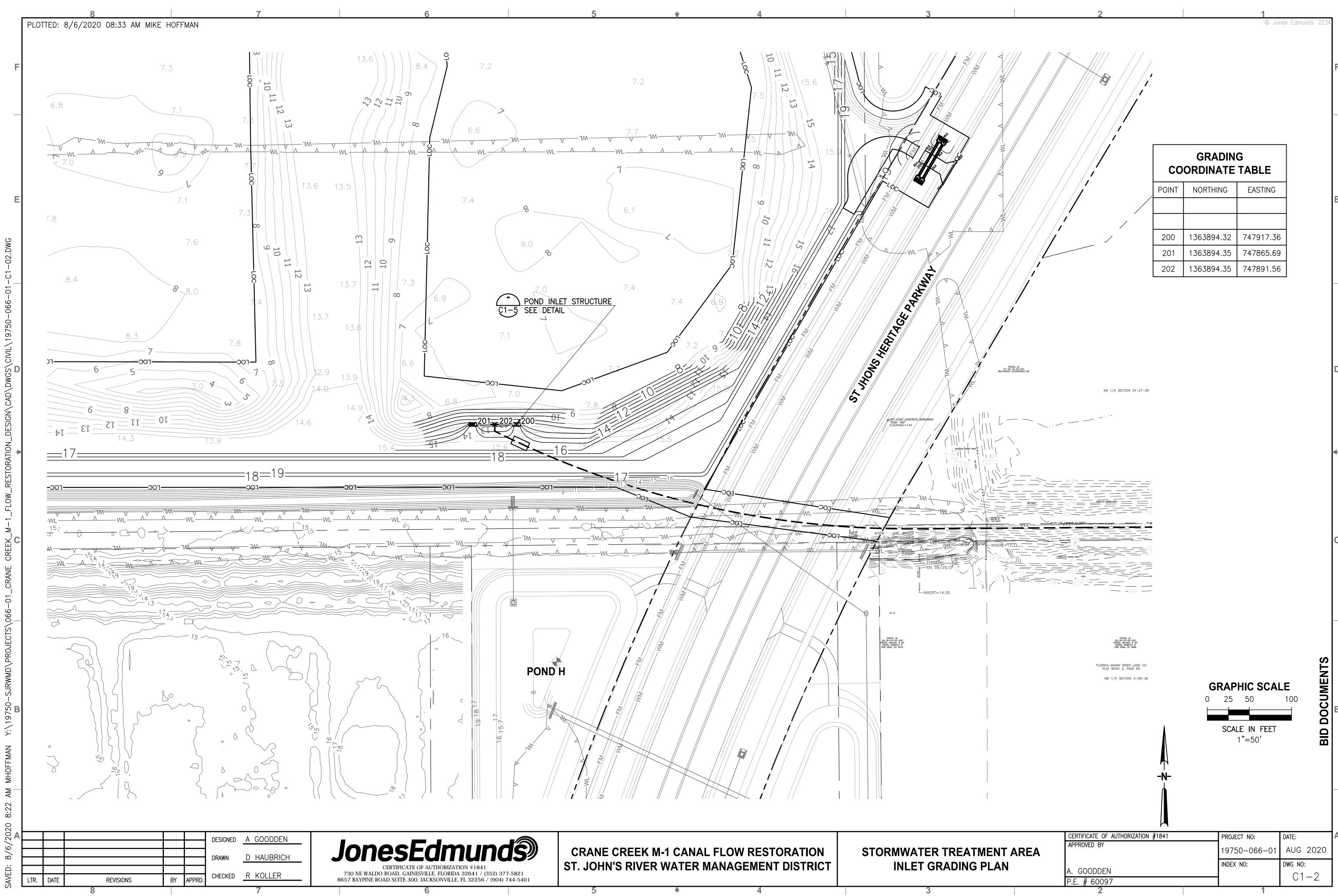


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	SEE SHEET 1 FOR NOTES, LEGEND AND DESCRIPTION.
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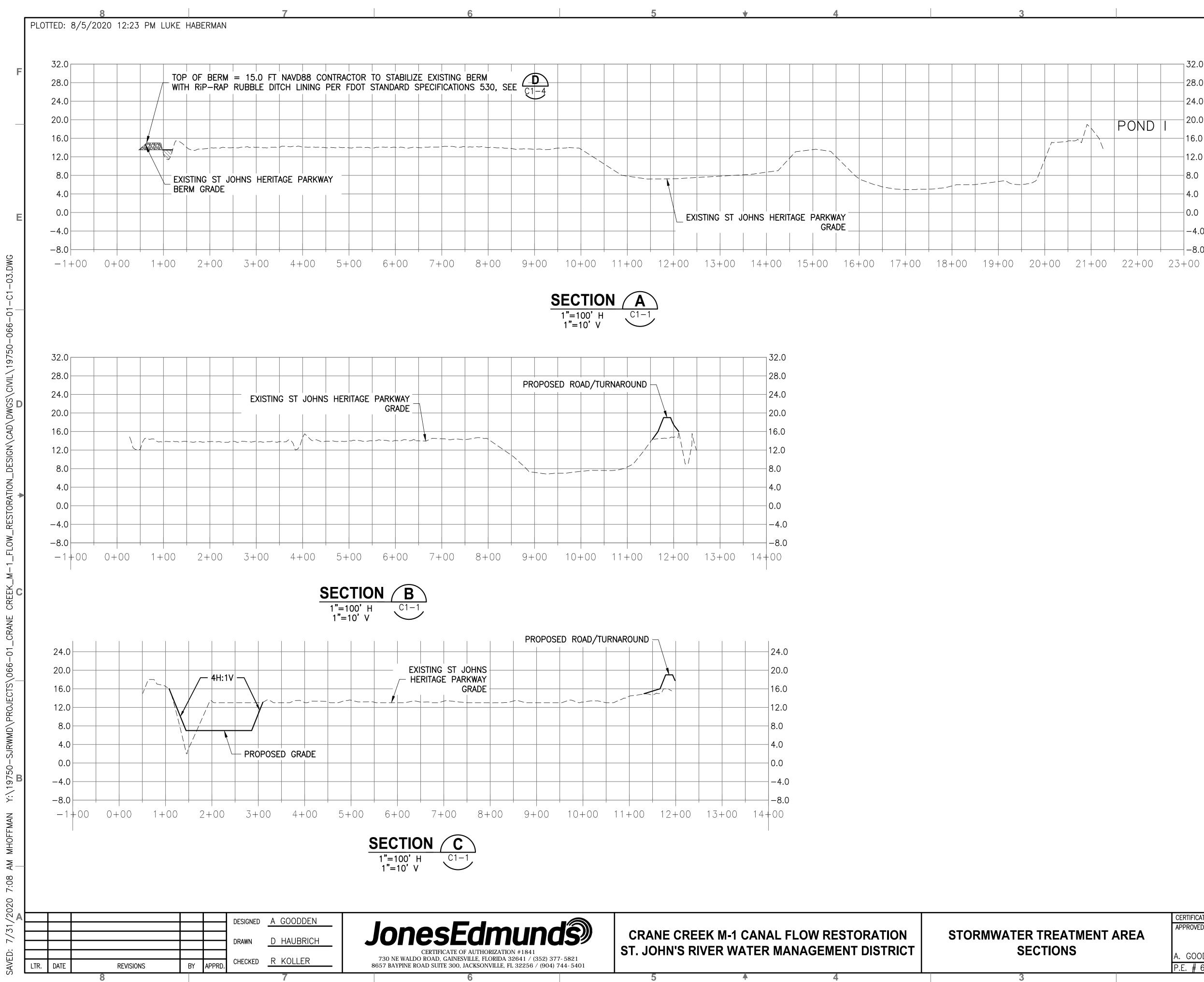






GRADING			
COORDINATE	TABLE		
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POINT	NORTHING	EASTING
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201	1363894.35	747865.69
202	1363894.35	747891.56



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<u>л</u>	POND		20.0				-
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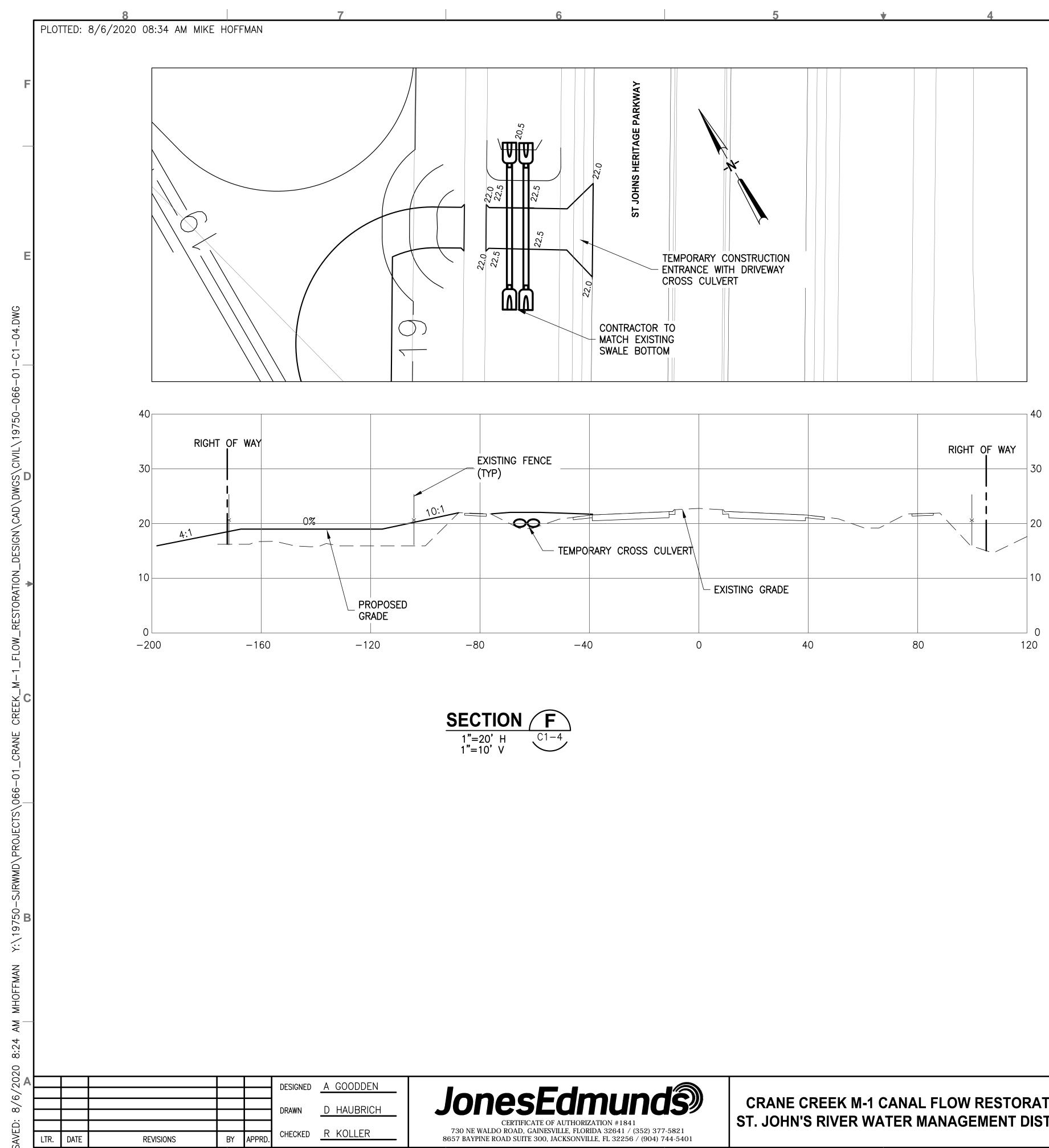
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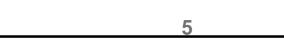
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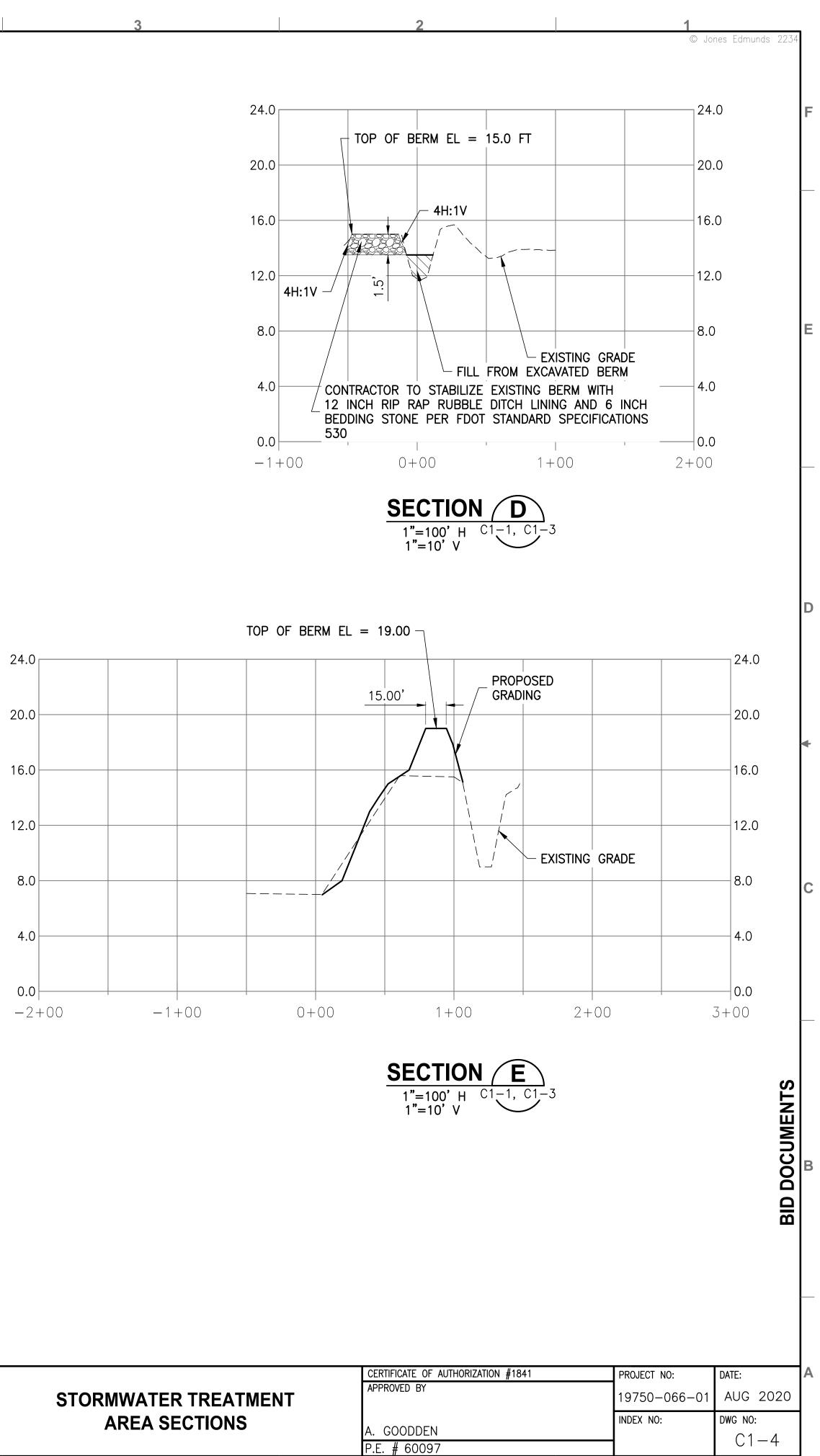
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	CERTIFICATE OF AUTHORIZATION #1841	PROJECT NO:	DATE:	Α
ENT AREA	APPROVED BY	19750-066-01	AUG 2020	
	A. GOODDEN	INDEX NO:	DWG NO:	
	P.E. # 60097			
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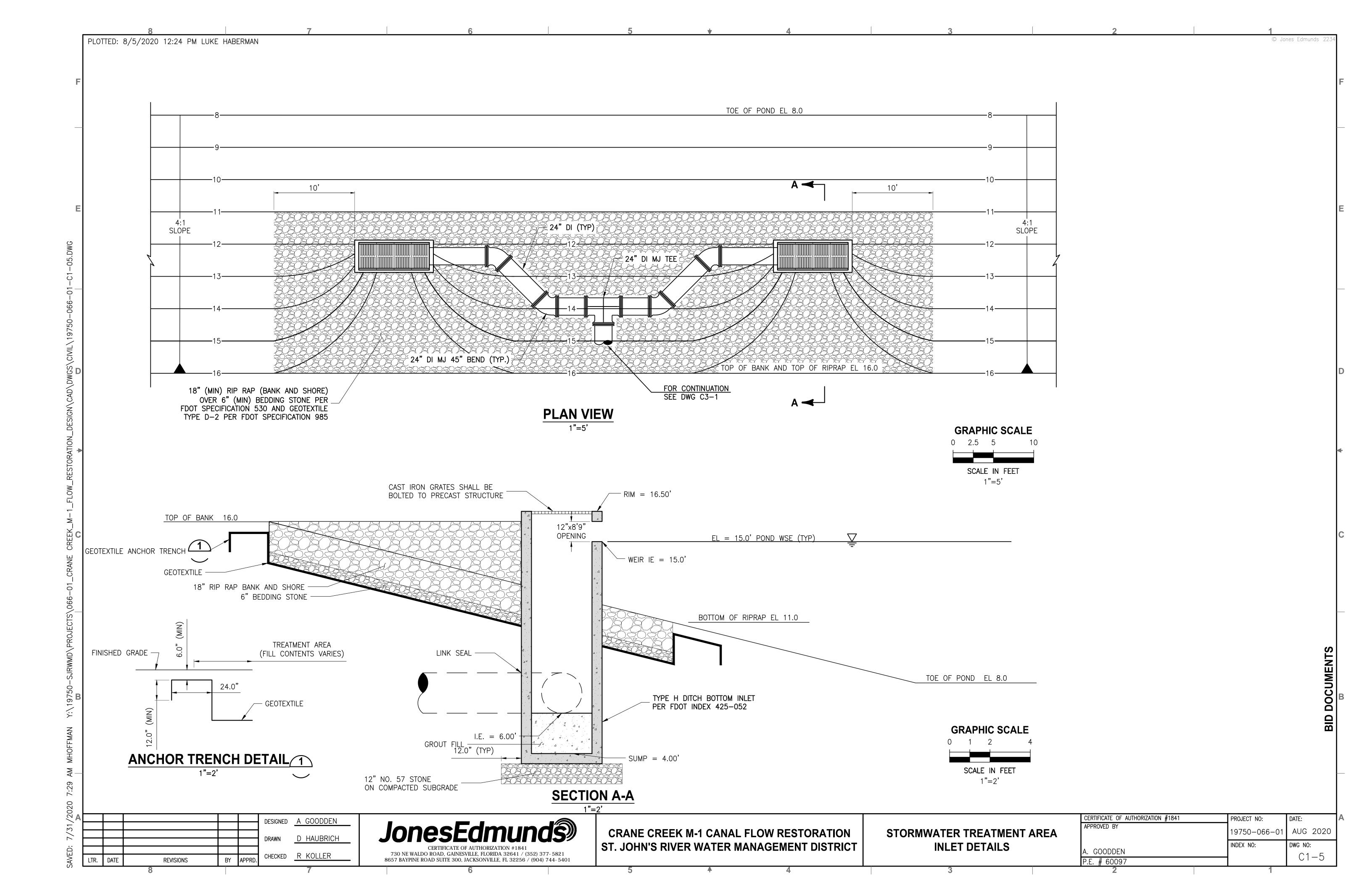


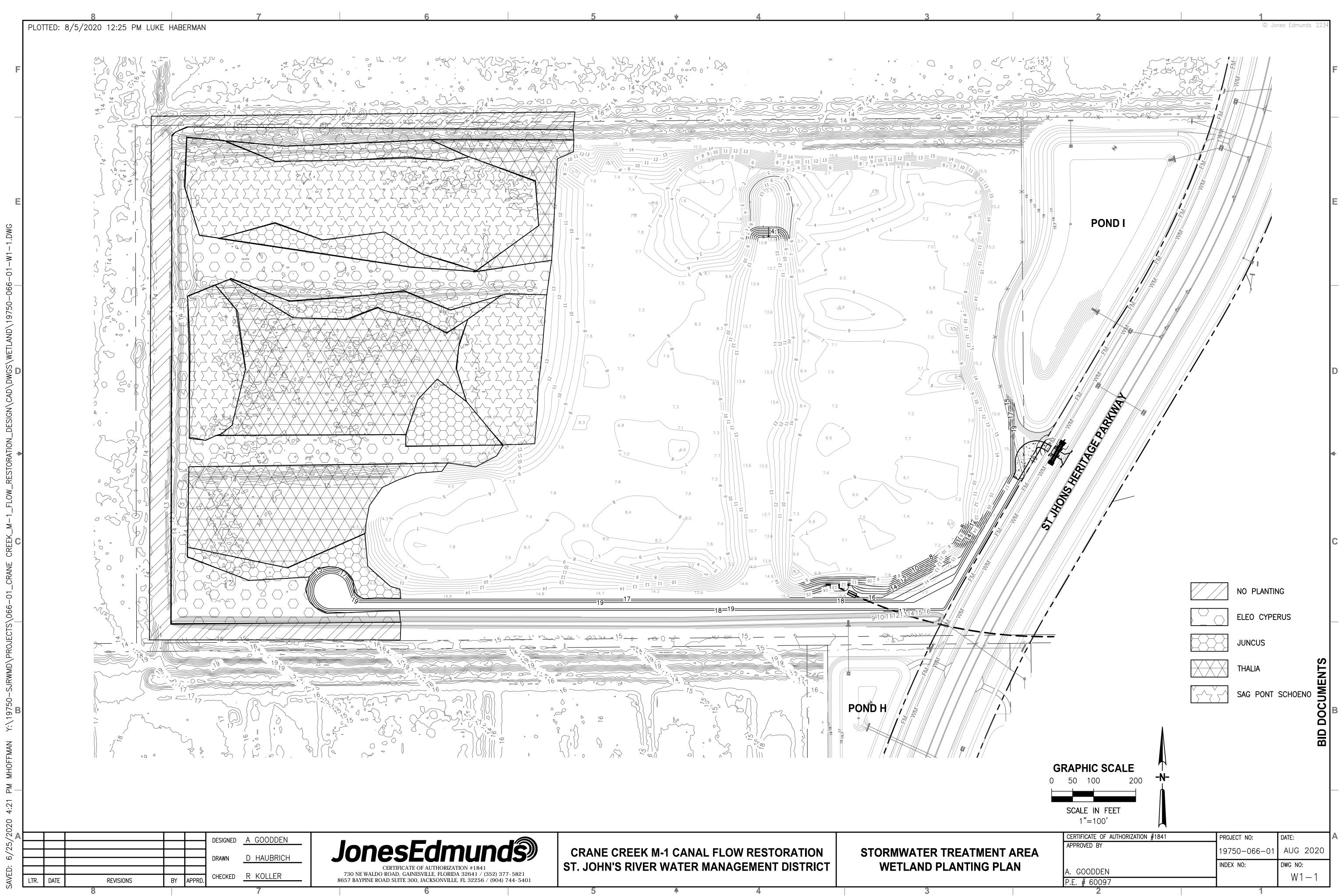


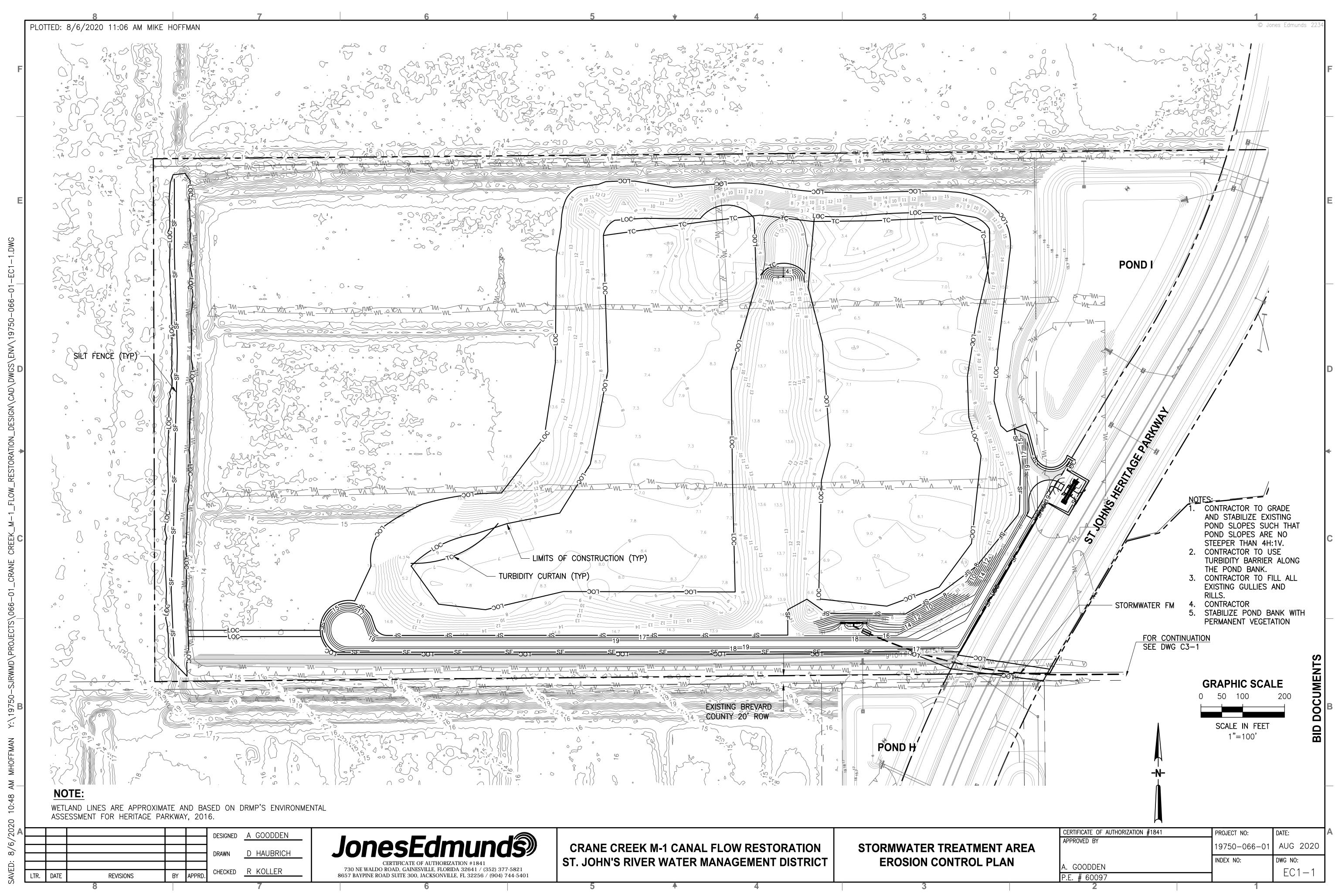


CRANE CREEK M-1 CANAL FLOW RESTORATION ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT

5







	SITE DESCRIPTION	GENERAL
	<u>PROJECT NAME(S) AND LOCATION:</u> CRANE CREEK M-1 CANAL FLOW RESTORATION, STORMWATER TREATMENT AREA COUNTY: SECTIONS 34, TOWNSHIP 27; RANGE 36	THE CONTRACTOR SHALL AT A MINIMUM IMPLEMEN OUTLINED BELOW AND THOSE MEASURES SHOWN CONTROL PLAN. IN ADDITION THE CONTRACTOR SH REQUIRED TO BE IN COMPLIANCE WITH APPLICABL WATER QUALITY STANDARDS DEPENDING ON THE M OF CONSTRUCTION.
	PROPERTY OWNER AND ADDRESS:	SEQUENCE OF MAJOR ACTIVITIES
	ATTN: JOHN DENNINGHOFF, ASSISTANT COUNTY MANAGER BREVARD COUNTY 2725 JUDGE FRAN JAMIESON WAY MELBOURNE, FLORIDA 32940	1. COMPLETE AND SUBMIT NOTICE OF INTENT (NOI) TO FDEP.
	DESCRIPTION:	2. INSTALL STABILIZED CONSTRUCTION ENTRANCES.
	THIS PROJECT WILL CONSIST OF: THE CONSTRUCTION OF POND INLET, REPLACING AN EXISTING EARTHEN BERM WITH A RIP RAP BERM, RE-GRADING AND STABILIZINF EXISTING POND SLOPES	3. INSTALL SILT FENCES AND OTHER 12. EROSION CONTROL DEVICES. 13. 4. REMOVE EXISTING EARTHEN BERM.
	AND ASSOCIATED GRADING. SOIL DISTURBING ACTIVITIES WILL INCLUDE: CLEARING, GRUBBING; INSTALLING STABILIZED CONSTRUCTION ENTRANCE, DEPIMETER AND OTHER FROSION AND SEDIMENT CONTROLS	5. USE EXCESS SOIL TO TILL EXISTING 14. DITCH AND STABILIZE WITH PERMANENT SEEDING. 15.
	PERIMETER, AND OTHER EROSION AND SEDIMENT CONTROLS.	6. RECONSTRUCT BERM USING RIPRAP.
	<u>SOILS:</u> SEE GEOTECHNICAL REPORT FOR SOILS DATA. <u>SITE MAPS:</u>	 INSPECT POND SLOPES WITH OWNER INSTALL TURBIDITY BARRIERS ALONG 16. POND BANKS.
	SEE ATTACHED GRADING PLAN FOR PRE & POST DEVELOPMENT GRADES, AREAS OF SOILS, DISTURBANCE, LOCATION OF SURFACE WATERS, WETLANDS, PROTECTED AREAS, MAJOR STRUCTURAL AND NONSTRUCTURAL CONTROLS AND	9. RE-GRADE POND SUCH THAT POND SLOPES ARE NO STEEPER THAN 4:1.
	STORM WATER DISCHARGE POINTS. SEE ATTACHED EROSION & TURBIDITY CONTROL PLAN FOR LOCATION OF TEMPORARY STABILIZATION PRACTICES, AND TURBIDITY BARRIERS.	10. FILL ALL EXISTING GULLIES AND/ OR
	SEE GENERAL NOTES AND SPECIFICATIONS FOR REQUIREMENTS FOR TEMPORARY AND PERMANENT STABILIZATION.	CONTROLS
	<u>SITE AREA:</u> TOTAL AREA OF SITE – 57.0 ACRES TOTAL AREA TO BE DISTURBED – GREATER THAN 5 ACRES	IT IS THE CONTRACTORS RESPONSIBILITY TO IMPLE TURBIDITY CONTROLS AS SHOWN ON THE SEDIMEN PLAN. IT IS ALSO THE CONTRACTORS RESPONSIBIL CONTROLS ARE PROPERLY INSTALLED, MAINTAINED TO PREVENT TURBID OR POLLUTED WATER FROM THE CONTRACTOR WILL ADJUST THE EROSION CON
	NAME OF RECEIVING WATERS: ST JOHNS RIVER BY WAY OF FLOODPLAIN WETLANDS.	ADDITIONAL CONTROL MEASURES, AS REQUIRED, TO ALL FEDERAL STATE AND LOCAL EROSION AND SE AS REQUIRED TO MEET THE SEDIMENT AND TURBI ON THE PROJECT SITE BY THE REGULATORY AGEN
	CONTROLS	EROSION AND SEDIMENT CONTROLS STABILIZATION PRACTICES
	THIS PLAN UTILIZES BEST MANAGEMENT PRACTICES TO CONTROL EROSION AND TURBIDITY CAUSED BY STORM WATER RUN OFF, AN EROSION & TURBIDITY PLAN HAS BEEN PREPARED TO INSTRUCT THE CONTRACTOR ON PLACEMENT OF	1. FILTER FABRIC BARRIER: FILTER FABRIC BARRIER DISTURBED AREAS SUBJECT TO SHEET AND RILL LIMITATIONS:
	THESE CONTROLS, IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL AND MAINTAIN THE CONTROLS AS PER PLAN AS WELL AS ENSURING THE PLAN IS PROVIDING THE PROPER PROTECTION AS REQUIRED BY FEDERAL, STATE, AND LOCAL LAWS. REFER TO 'CONTRACTORS REQUIREMENTS' FOR A VERBAL	A. WHERE THE MAXIMUM SLOPE BEHIND B. IN MINOR SWALES OR DITCH LINES V DRAINAGE AREA IS NO GREATER THAN 2 2. BRUSH BARRIER WITH FILTER FABRIC: BRUSH B
	DESCRIPTION OF THE CONTROLS THAT MAY BE IMPLEMENTED. CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS	DISTURBED AREAS SUBJECT TO SHEET AND RILL MATERIAL IS AVAILABLE ON SITE.
	IN AN EFFORT TO ENSURE COMPLIANCE WITH FEDERAL, STATE, AND LOCAL LAWS REGARDING EROSION AND TURBIDITY CONTROLS, THE FOLLOWING PERMITS HAVE BEEN OBTAINED. FDEP ERP PERMIT #0384808-001-EI U.S.A.C.E. PERMIT #SAT-2019-04646 (NW-BAB)	
	POLLUTION PREVENTION PLAN CERTIFICATION	3. STOCKPILING MATERIAL: NO EXCAVATED MATERIA MANNER AS TO DIRECT RUNOFF DIRECTLY OFF ADJACENT WATER BODY OR STORM WATER COLI
	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FORGATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE	4. EXPOSED AREA LIMITATION: THE SURFACE AREA CLEARING GRUBBING OPERATIONS OR EXCAVATIO EXCEED 2.0 ACRES. THIS REQUIREMENT MAY BE DETAILED EROSION CONTROL PLAN PREPARED B' PLAN MUST INCLUDE A SCHEDULE, DESCRIPTION METHODS AND EROSION CONTROL MANAGEMENT OPENING OF ADDITIONAL AREA WILL NOT SIGNIFI
	INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SIGNED:	SEDIMENTS. 5. TEMPORARY SEEDING: AREAS OPENED BY CONST NOT ANTICIPATED TO BE RE-EXCAVATED OR DRE TREATMENT WITHIN 21 DAYS SHALL BE SEEDED
	TITLE: DATE:	SPECIES WHICH WILL PROVIDE AN EARLY COVER PLANTED AND WILL NOT LATER COMPETE WITH T
	AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE SILT FENCES,	-
	STABILIZED CONSTRUCTION ENTRANCE AND SEDIMENT BASIN WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS	
	PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN ACCORDANCE WITH THE PLANS AND AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT TRAPS AND STABILIZED IN ACCORDANCE WITH THE SEDIMENT AND EROSION CONTROL PLAN.	THE MATERIAL OR SUBSTANCES LISTED BELOW ARE ONSITE DURING CONSTRUCTION: CONCRETE FERTILIZERS DETERGENTS PETROLEUM BASED PRODUCT CLEANING SOLVENTS PAINTS
\mp	DESIGNED A GOODDEN	
\vdash	D HAUBRICH	JonesEdm
	TE REVISIONS BY APPRD. CHECKED R KOLLER	CERTIFICATE OF AUTHORIZATIO 730 NE WALDO ROAD, GAINESVILLE, FLORIDA 8657 BAYPINE ROAD SUITE 300, JACKSONVILLE, F
		- OD V DATEUNE RUALI NULLE SULL IALKNONVILLE -

		SPILL PREVENTION	\Box
NT THE CONTRACTOR'S REQUIREMENTS ON THE EROSION AND TURBIDITY HALL UNDERTAKE ADDITIONAL MEASURES E PERMIT CONDITIONS AND STATE NATURE OF MATERIALS AND METHODS	 6. TEMPORARY REGRASSING: IF, AFTER 14 DAYS FROM SEEDING, THE TEMPORARY GRASSED AREAS HAVE NOT MAINTAINED A MINIMUM OF 75 PERCENT GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATIVE COVER. 7. MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF 	MATERIAL MANAGEMENT PRACTICESTHE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.GOOD HOUSEKEEPING	E TH BI
 RILLS ON POND SLOPES. STABILIZE CLEARED AREAS AND STOCKPILES AS SOON AS PRACTICABLE. CONSTRUCT INLET PIPING. COMPLETE GRADING AND INSTALL PERMANENT SEEDING/SOD. REMOVE TURBIDITY BARRIERS WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY DIVERSION SWALES/DIKES AND RESEED/SOD AS REQUIRED. REMOVE SILT FENCE COMPLETE AND SUBMIT NOTICE OF TERMINATION (NOT) TO FDEP. 	 PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED. PERMANENT EROSION CONTROL: THE EROSION CONTROL FACILITIES OF THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON THE OFFSITE FACILITIES. PERMANENT VEGETATION: ALL AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION WILL BE STABILIZED WITH EITHER HYDROSEED AND TACKIFIER OR SOD. SOD SHALL BE FREE OF PLASTIC. SOD INSTALLED ON SLOPES STEEPER THAT 4:1 SHALL BE STAKED. TEMPORARY MATTING; THE CONTRACTOR SHALL USE TEMPORARY MATTING TO AVOID CREATION OF RUTS IN WETLAND SOILS AND ALONG THE POND BANKS. 	GOOD HOUSEKEEPINGTHE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT.AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.HAZARDOUS PRODUCTSTHESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.	
EMENT THE EROSION AND NT AND EROSION CONTROL ITY TO ENSURE THESE AND FUNCTIONING PROPERLY LEAVING THE PROJECT SITE. ITROL PLAN AND ADD O ENSURE THE SITE MEETS DIMENT CONTROL PLAN AND DITY REQUIREMENTS IMPOSED ICIES. RS CAN BE USED BELOW . EROSION WITH THE FOLLOWING THE BARRIER IS 33 PERCENT. WHERE THE MAXIMUM CONTRIBUTING 2.0 ACRES. BARRIER MAY BE USED BELOW L EROSION WHERE ENOUGH RESIDUE	SPILL CONTROL PRACTICES IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP: MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED ON SITE AND SITE PERSONNEL WILL BE MADE AWARE OF THE METHODS AND POSTED LOCATION. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE, BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, LIQUID ABSORBENT (I.e. KITTY LITTER OR EQUAL), SAND SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY. THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM	IF SURPLUS PRODUCT MUST BE DISPOSED OF MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED. PRODUCT SPECIFIC PRACTICES THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE: PETROLEUM PRODUCTS ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. FERTILIZERS FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED AREA. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS. PAINTS ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE AND LOCAL REGULATIONS. CONCRETE TRUCKS CONCRETE TRUCKS CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER TO DITCHES, PONDS OR OTHER WATERWAYS. WASHWATER SHALL BE COLLECTED IN A TEMPORARY SETTLING POND.	1
L SHALL BE STOCKPILED IN SUCH A THE PROJECT SITE INTO ANY LECTION FACILITY. OF OPEN, ERODIBLE SOIL EXPOSED BY N AND FILLING OPERATIONS SHALL NOT WAIVED BY THE OWNER WITH A Y THE CONTRACTOR. THE DETAILED OF CONSTRUCTION MEAND AND PRACTICES WHICH DEMONSTRATES THAT CANTLY AFFECT OFF—SITE DEPOSIT OF	CONTACT WITH A HAZARDOUS SUBSTANCE. SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED IMMEDIATELY TO THE OWNER. THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED. THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP	OTHER CONTROLS WASTE DISPOSAL WASTE MATERIALS ALL WASTE MATERIALS EXCEPT LAND CLEARING DEBRIS SHALL BE COLLECTED AND STORED IN A METAL DUMPSTER. THE DUMPSTER WILL MEET ALL LOCAL AND STATI SOLID WASTE MANAGEMENT REGULATIONS. THE DUMPSTER WILL BE EMPTIED AS NEEDED AND THE TRASH WILL BE HAULED TO A STATE APPROVED LANDFILL ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE CONSTRUCTION SUBERINT THE INDIVIDUAL	
TRUCTION OPERATIONS AND THAT ARE ESSED AND RECEIVE FINAL GRASSING WITH A QUICK GROWING GRASS. DURING THE SEASON IN WHICH IT IS THE PERMANENT GRASSING.	COORDINATOR. HE/SHE WILL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL, WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP, THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IF APPLICABLE, IN THE OFFICE TRAILER ONSITE.	CONSTRUCTION SITE BY THE CONSTRUCTION SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES THE DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED. <u>HAZARDOUS WASTE</u> ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES AND THE SITE SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED. <u>SANITARY WASTE</u> ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NEEDED TO PREVENT POSSIBLE SPILLAGE. THE WASTE WILL BE COLLECTED AND	
E EXPECTED TO BE PRESENT WOOD S		DISPOSED OF IN ACCORDANCE WITH STATE AND LOCAL WASTE DISPOSAL REGULATIONS FOR SANITARY SEWER OR SEPTIC SYSTEMS. <u>OFFSITE VEHICLE TRACKING</u> A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED AREA ADJACENT TO THE SITE ENTRANCE WILL BE SWEPT DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARP.	



CRANE CREEK M-1 CANAL FLOW RESTORATION ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT

STORMWATER TREATM **STORMWATER POLLUTION** NOTES

© Jones Edmunds 2

MAINTENANCE/INSPECTION PROCEDURES EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES THE FOLLOWING ARE INSPECTION AND MAINTENANCE PRACTICES THAT WILL PRACTICES THAT WILL BE BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS. ACCIDENTAL EXPOSURE OF NO MORE THAN 2 ACRES OF THE SITE WILL BE CLEARED AT ONE TIME WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.

ALL CONTROL MEASURES WILL BE INSPECTED BY A CERTIFIED SUPERINTENDENT, THE PERSON RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATION OR SOMEONE APPOINTED BY THE SUPERINTENDENT, AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF ANY STORM EVENT OF 1/2" OR GREATER. ALL TURBIDITY CONTROL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.

BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.

SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND. CONSTRUCTION ENTRANCES WILL BE INSPECTED FOR DEPTH OF

CRUSHED STONE BED AND FILTER FABRIC CONDITION. THE BED SHALL HAVE A 6" THICKNESS AND THE FILTER FABRIC SHALL BE FREE OF TEARS AND FIRMLY SECURE. ENTRANCES SHALL BE REMOVED PRIOR TO CONSTRUCTION OF DRIVEWAYS.

TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.

A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. COPY OF THE REPORT FORM TO BE COMPLETED BY THE INSPECTOR IS ATTACHED. THE REPORTS WILL BE KEPT ON SITE DURING CONSTRUCTION AND AVAILABLE UPON REQUEST TO THE OWNER, ENGINEER OR ANY FEDERAL, STATE, AND LOCAL AGENCY APPROVING SEDIMENT AND EROSION PLANS, OR STORM WATER MANAGEMENT PLANS. THE REPORTS SHALL BE MADE AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED AND THE NOTICE OF TERMINATION IS SUBMITTED. THE REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE.

THE SITE SUPERINTENDENT WILL SELECT UP TO THREE CERTIFIED INDIVIDUALS WHO WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.

PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT AND MUST ENFORCE THE FDEP NPDES SWPPP FOR THIS PROJECT. THEY WILL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER.

NON-STORM WATER DISCHARGES

IT IS EXPECTED THAT THE FOLLOWING NON-STORM WATER DISCHARGES WILL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD.

UNCONTAMINATED GROUNDWATER (FROM DEWATERING EXCAVATION).

ALL NON-STORM WATER DISCHARGES WILL BE DIRECTED TO THE SEDIMENT BASIN OR OTHER APPROPRIATE AREA PRIOR TO DISCHARGE TO EXISTING DITCHES OR WETLANDS.

CONTRACTORS CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FROM THE SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

BUSINESS NAME & ADDRESS RESPONSIBLE SIGNATURE OF CONTRACTOR, ALL SUBS FOR/DUTIES GENERAL CONTRACTOR

SUBCONTRACTOR

S

OCUMENT:

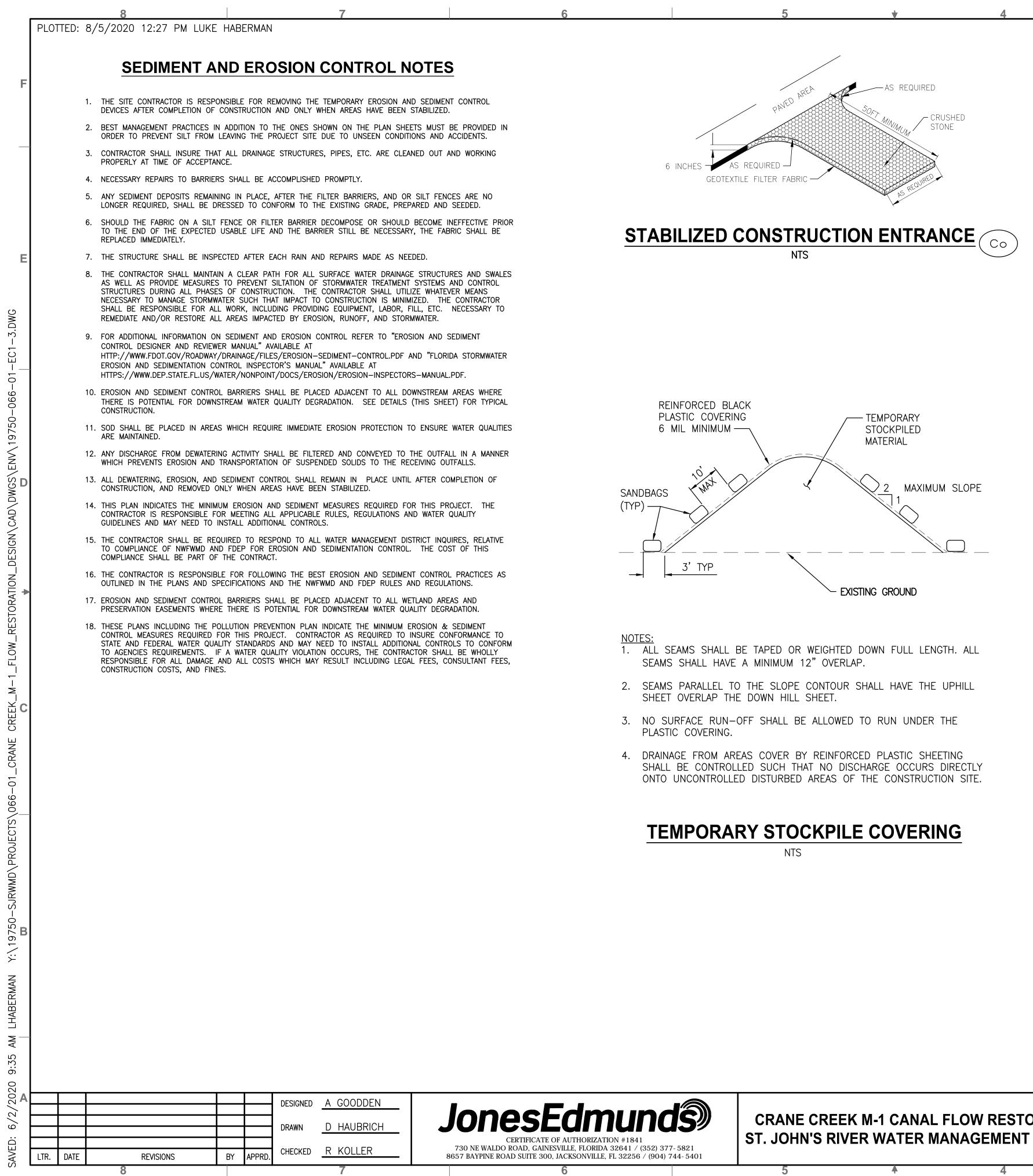
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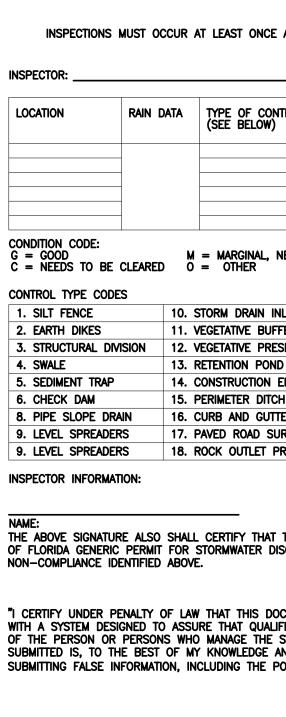
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SUBCONTRACTOR

SUBCONTRACTOR

	CERTIFICATE OF AUTHORIZATION #1841	PROJEC	Γ ΝΟ:	DATE:	Α
ENT AREA PREVENTION	APPROVED BY	19750	0-066-01	AUG 2020	
	A. GOODDEN	INDEX N	10:	dwg no: EC1-2	
	P.E. # 60097 2		1		





NAME (RESPONSIBLE AUTHORITY)

CRANE CREEK M-1 CANAL FLOW RESTORATION ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT

EROSION CONTROL DE

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m		

STORMWATER POLLUTION PREVENTION PLAN

INSPECTIONS MUST OCCUR AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM EVENT THAT IS 0.50 INCHES OR GREATER

FDEP NPDES STORMWATER IDENTIFICATION NUMBER:

NTROL	DATE INSTALLED / MODIFIED	CURRENT CONDITION (SEE BELOW)	CORRECTIVE ACTION / OTHER REMARKS

G = GOOD M = MARGINAL, NEEDS MAINTENANCE OR REPLACEMENT SOON P = POOR, NEEDS IMMEDIATE MAINTENANCE OR REPLACEMENT O = OTHER

INLET PROTECTION	19. REINFORCED SOIL RETAINING SYSTEM	28. TREE PROTECTION
FFER STRIP	20. GABION	29. DETENTION POND
ESERVATION AREA	21. SEDIMENT BASIN	30. RETENTION POND
ND	22. TEMPORARY SEED / SOD	31. WASTE DISPOSAL / HOUSEKEEPING
ENTRANCE STABILIZATION	23. PERMANENT SEED / SOD	32. DAM
СН	24. MULCH	33. SAND BAG
ITER	25. HAY BALES	34. OTHER
URFACE	26. GEOTEXTILE	
PROTECTION	27. RIP-RAP	

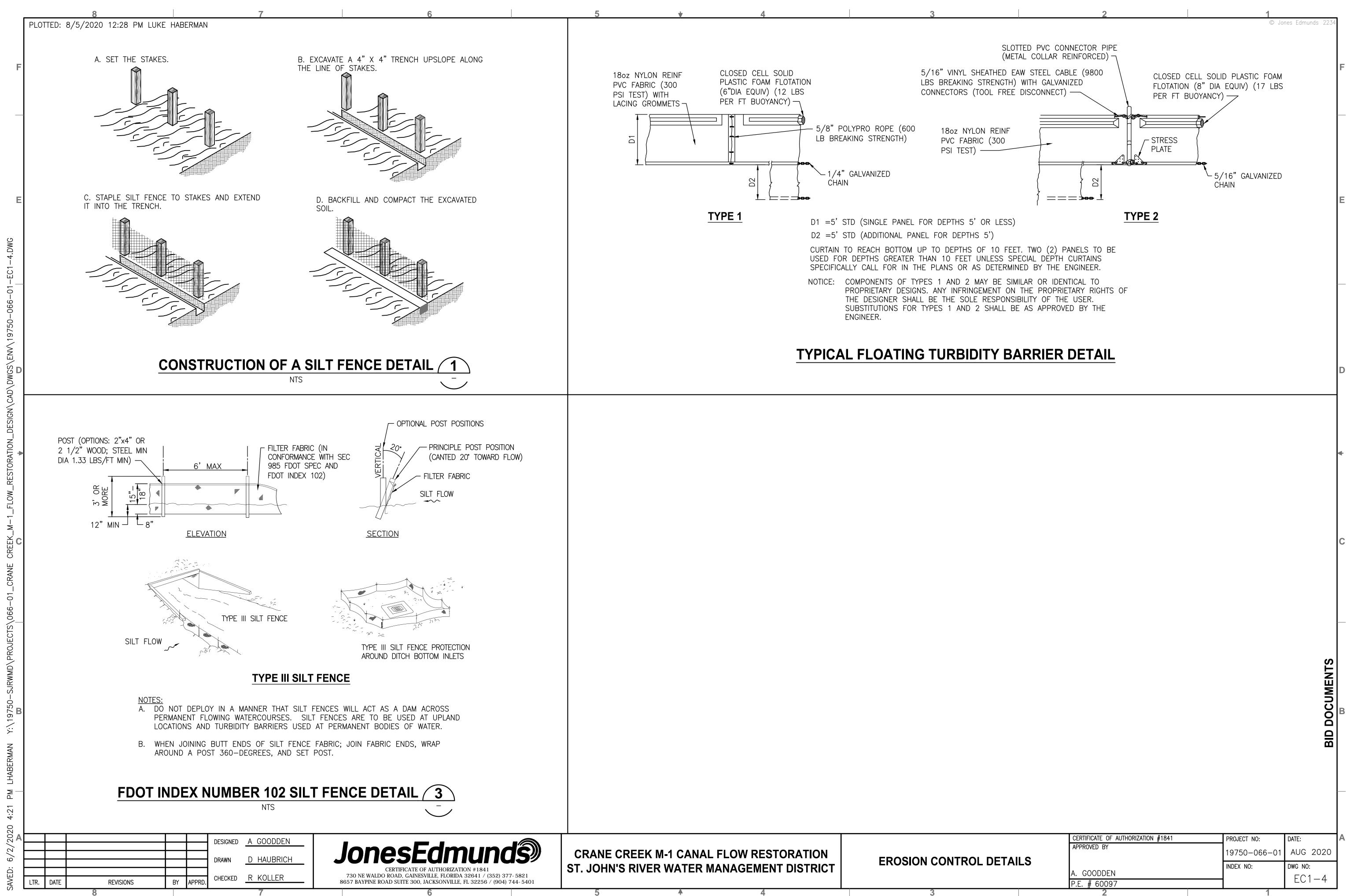
QUALIFICATION THE ABOVE SIGNATURE ALSO SHALL CERTIFY THAT THIS FACILITY IS IN COMPLIANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN AND THE STATE OF FLORIDA GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES IF THERE ARE NOT ANY INCIDENTS OF

"I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."

* * * * * *

BID DOCUMENTS

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	CERTIFICATE OF AUTHORIZATION #1841	PROJECT NO:	DATE:	Α
ETAI	APPROVED BY	19750-066-01	AUG 2020	
	 A. GOODDEN	INDEX NO:	DWG NO:	
	 P.E. # 60097		EC1-3	
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	CERTIFICATE OF AUTHORIZATION #1841	PROJECT NO:	DATE:	A
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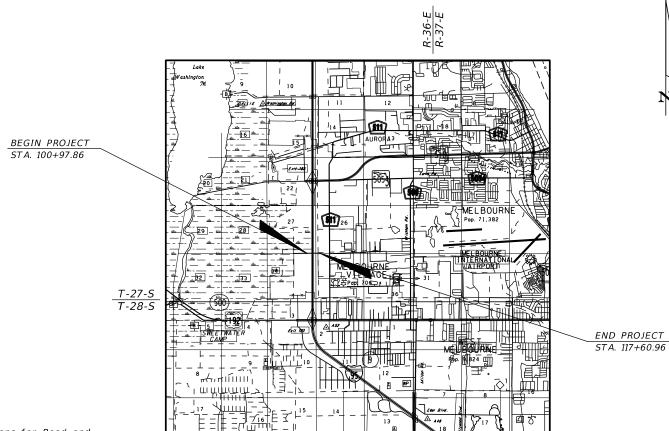
SAINT JOHNS RIVER WATER MANAGEMENT DISTRICT

UTILITY PLANS

INDEX OF UTILITY PLANS

SHEET NO.	SHEET DESCRIPTION
C2-1	KEY SHEET
C2-2	GENERAL NOTES
C2-3 - C2-6	UTILITY PLAN
C2-7 - C2-10	UTILITY PROFILE
C2-11	SUMMARY OF VERIFIED UTILITIES

CRANE CREEK M-1 CANAL FLOW RESTORATION



GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2019-20 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Standard Plans for Road Construction and associated IRs are available at the following website: http://www.fdot.gov/design/standardplans

APPLICABLE IRs:

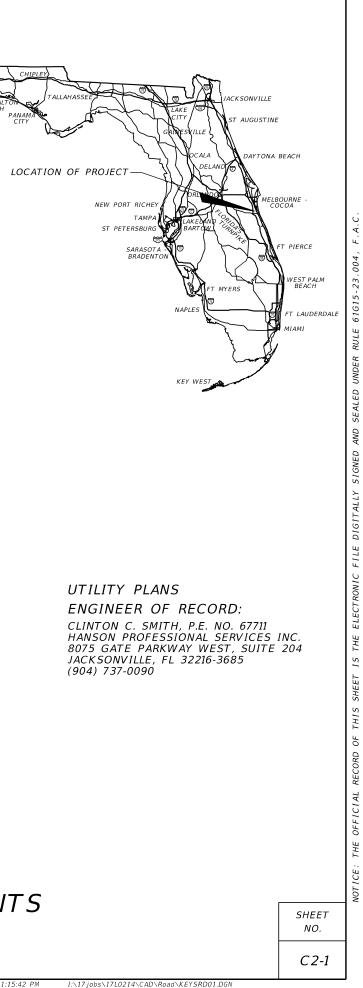
Standard Plans for Bridge Construction are included in the Structures Plans Component

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, July 2020 Standard Specifications for Road and Bridge Construction at the following website: http://www.fdot.gov/programmanagement/Implemented/SpecBooks

BID DOCUMENTS

PENSACO



GENERAL NOTES

1. BENCHMARK ELEVATIONS SHOWN ON THE PLANS ARE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

- 2. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS (INCLUDING THOSE DESIGNATED VV, Vh, AND Vvh) ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.
- 3. UTILITY/AGENCY OWNERS:

COMPANY	TELEPHO
BREVARD COUNTY PUBLIC WORKS - TRAFFIC SIGNALS & FIBER	(321) 63.
FLORIDA CITY GAS - GAS	(321) 63
FLA GAS TRANS MELBOURNE - GAS PIPELINE	(407) 83
FLORIDA POWER & LIGHT - BREVARD - ELECTRIC	(386) 58
LEVEL 3 COMMUNICATIONS - FIBER OPTIC	(877) 36
CITY OF MELBOURNE UTILITIES ADMINISTRATION - WATER DISTRIBUTION	(321) 60
CITY OF MELBOURNE UTILITIES ADMINISTRATION - WASTEWATER RE-USE	(321) 60
CITY OF MELBOURNE UTILITIES ADMINISTRATION - SEWAGE COLLECTION	(321) 60
CENTURYLINK (FORMERLY QWEST COMMUNICATIONS) - FIBER OPTIC	(303) 99
AT&T DISTRIBUTION - TELEPHONE	(561) 997
UNITI FIBER LLC - FIBER OPTIC	(251) 25
BRIGHT HOUSE NETWORKS, LLC BREVARD - FIBER OPTIC	(321) 757
CITY OF WEST MELBOURNE - WATER	(321) 83
CITY OF WEST MELBOURNE - SEWER	(321) 98-
CROWN CASTLE FIBER	(786) 610

4. SPECIAL EVENT DAYS FOR THIS PROJECT INCLUDE: TBD

5. NO ACCESS WILL BE ALLOWED (PARKING, ETC,) IN LAROW.

6. ITS LINES IN AREA - MUST CONTACT D5 DISTRICT TRAFFIC OPERATIONS - JIM MILLER AT 386-943-5322 FOR ITS INFORMATION. CONTRACTOR IS RESPONSIBLE TO NOTIFY FDOT IMMEDIATELY IF ITS IS COMPROMISED.

ENVIRONMENTAL RESOURCE REQUIREMENTS

1. THE USE OF DRILLING FLUIDS SHALL NOT CAUSE OR CONTRIBUTE TO A VIOLATION OF STATE GROUND WATER QUALITY CRITERIA OR STANDARDS, AS DEFINED IN CHAPTER 62-520, F.A.C.

- 2. AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF ANY DIRECTIONAL DRILLING ACTIVITIES, CONTRACTOR SHALL PROVIDE ALL-HOURS TELEPHONE CONTACT INFORMATION OF ALL CONTRACTORS RESPONSIBLE FOR DRILLING AND FOR CONTAINMENT AND CLEANUP IN THE EVENT OF A DRILLING FLUID FRAC-OUT OR SPILL.
- 3. THE CONTRACTOR SHALL AT ALL TIMES DURING DIRECTIONAL DRILLING ACTIVITIES, MAINTAIN APPROPRIATE EQUIPMENT AND MATERIALS IN A READILY-ACCESSABLE LOCATION AND CONDITION, TO EFFECTIVELY CONTAIN AND CLEAN UP A DRILLING FLUID FRAC-OUT OR SPILL.
- 4. THE CONTRACTOR SHALL AT ALL TIMES DURING DIRECTIONAL DRILLING ACTIVITIES, ENSURE THAT APPROPRIATELY-TRAINED PERSONNEL MONITOR DOWNHOLE EQUIPMENT POSITION, DRILLING FLUID CIRCULATION AND PRESSURES, AND ACTIVELY MONITOR THE ENTIRE UTILITY LINE ROUTE FOR SURFACE FRAC-OUT OF DRILLING FLUIDS.
- 5. ALL DRILLING ACTIVITIES SHALL BE DISCONTINUED AND THE DRILLING FLUID OR SLURRY SHALL BE CONTAINED USING APPROPRIATE METHODS AS SOON AS POSSIBLE. IN THE EVENT OF A DRILLING FLUID FRAC-OUT OR SPILL, REMOVAL OF DRILLING FLUID OR SLURRY FROM WETLANDS AND OTHER SURFACE WATERS SHALL BE INITIATED AND COMPLETED IN THE MOST EXPEDITIOUS MANNER PRACTICAL. REMOVED DRILLING FLUID SHALL BE CONTAINED OR DISPOSED OF IN AN APPROPRIATE UPLAND LOCATION. ANY FRAC-OUT OR SPILL OF DRILLING FLUID INTO WETLANDS OR OTHER SURFACE WATERS SHALL BE REPORTED TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION WITHIN 24 HOURS FOLLOWING DETECTION OF THE SPILL OR FRAC-OUT.
- 6. CONTRACTOR SHALL STABILIZE AND REPLANT ALL DISTURBED / CLEARED PORTIONS OF THE TEMPORARY CONSTRUCTION EASEMENT AREA. REPLANT AT 8-FOOT ON CENTER WITH 15-GALLON WAX MYRTLE (MYRICA CERIFERA), OR OWNER APPROVED EQUIVALENT, WITH MINIMUM PLANT HEIGHT OF 10-FEET AT THE TIME OF PLANTING.

	REVI.	SIONS		CLINTON C. SMITH, P.E.		
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				JACKSONVILLE, FL 32216-3685 CERTIFICATE OF AUTHORIZATION 00007961	BREVARD	

HONE NUMBER 33-2077 38-3424 338-7171 586-6403 366-8344 x2 508-5106 08-5106 08-5106 992-9931 97-0240 59-0807 57-6451 37-7771 84-0485 510-7059

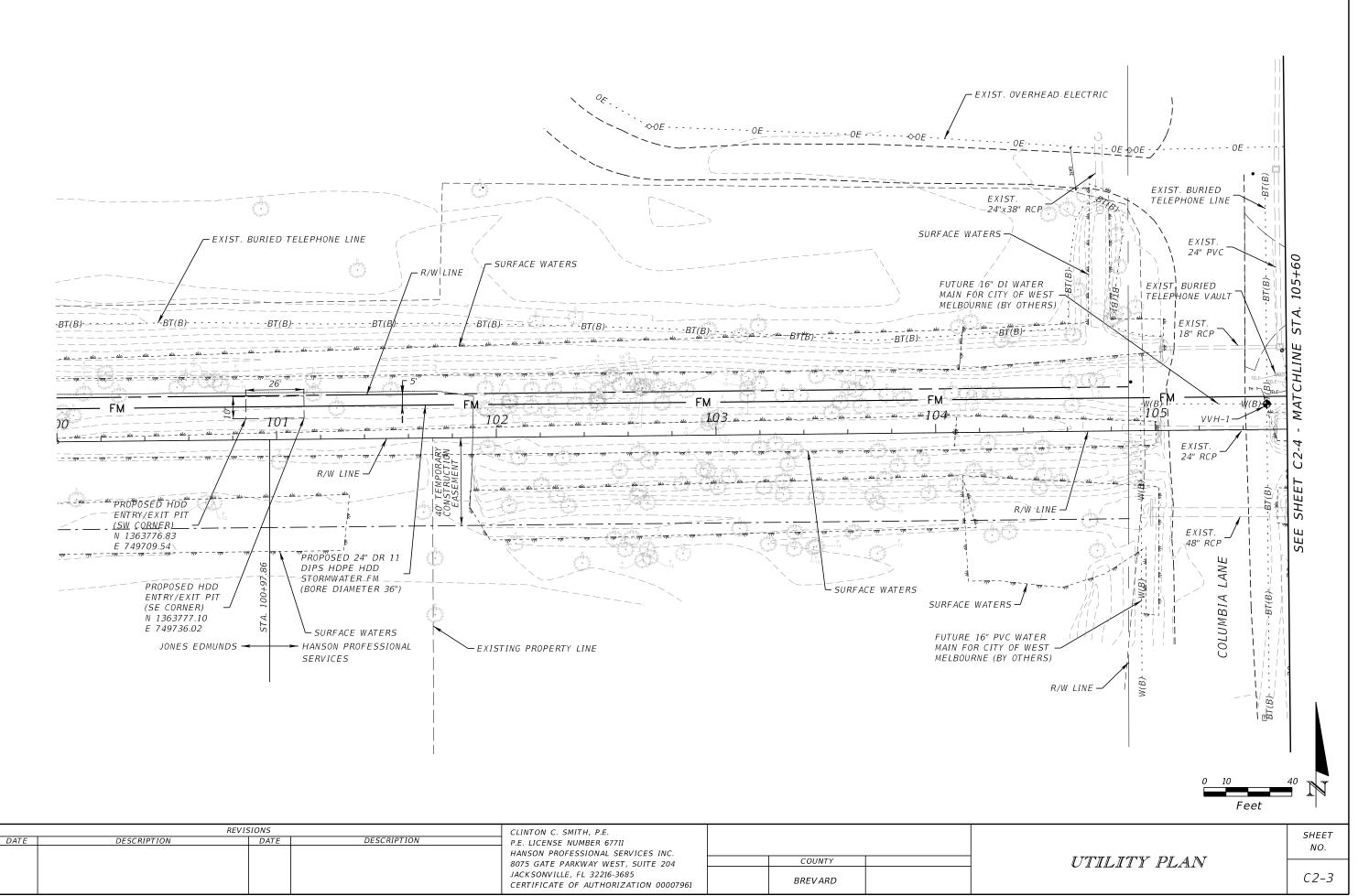
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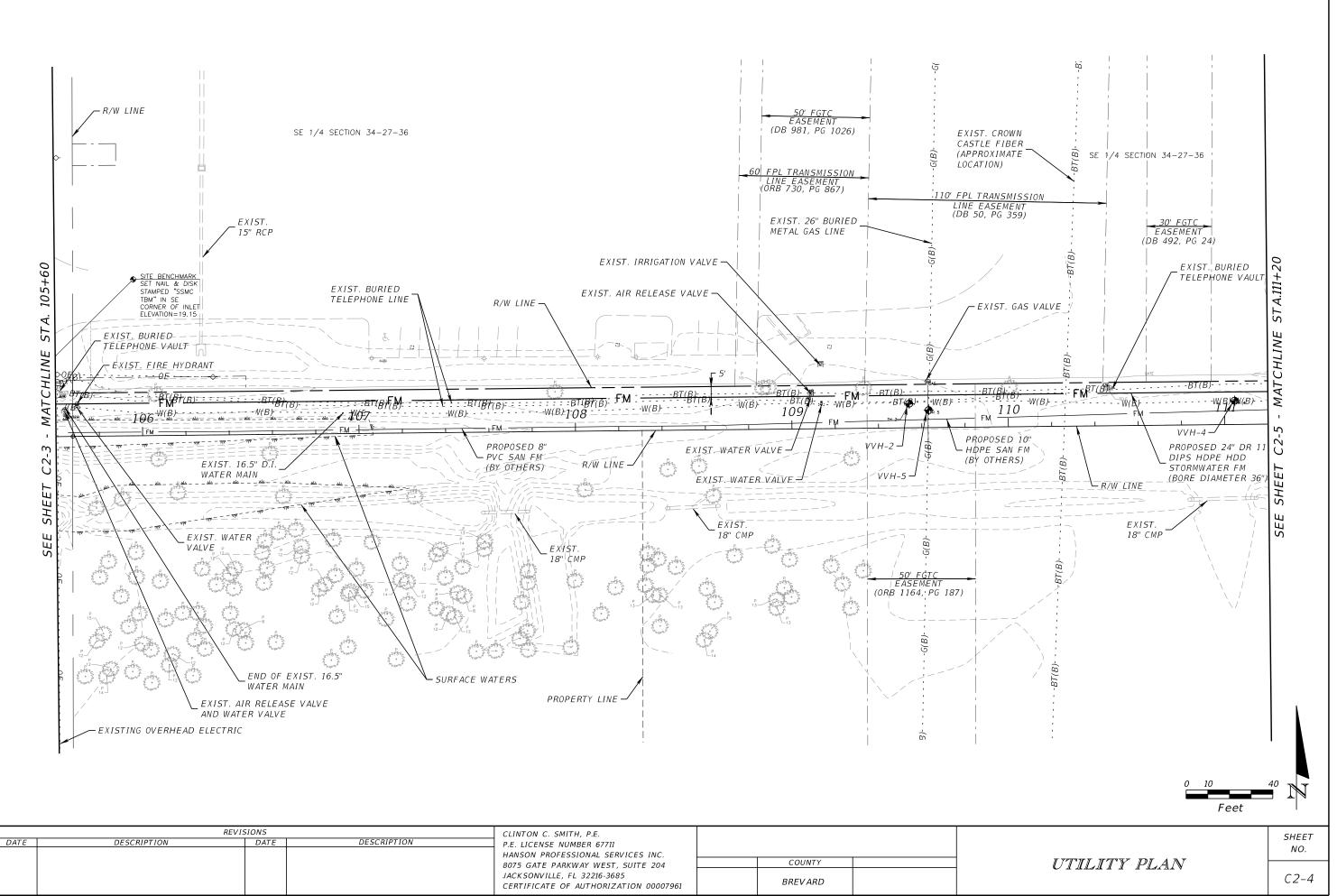
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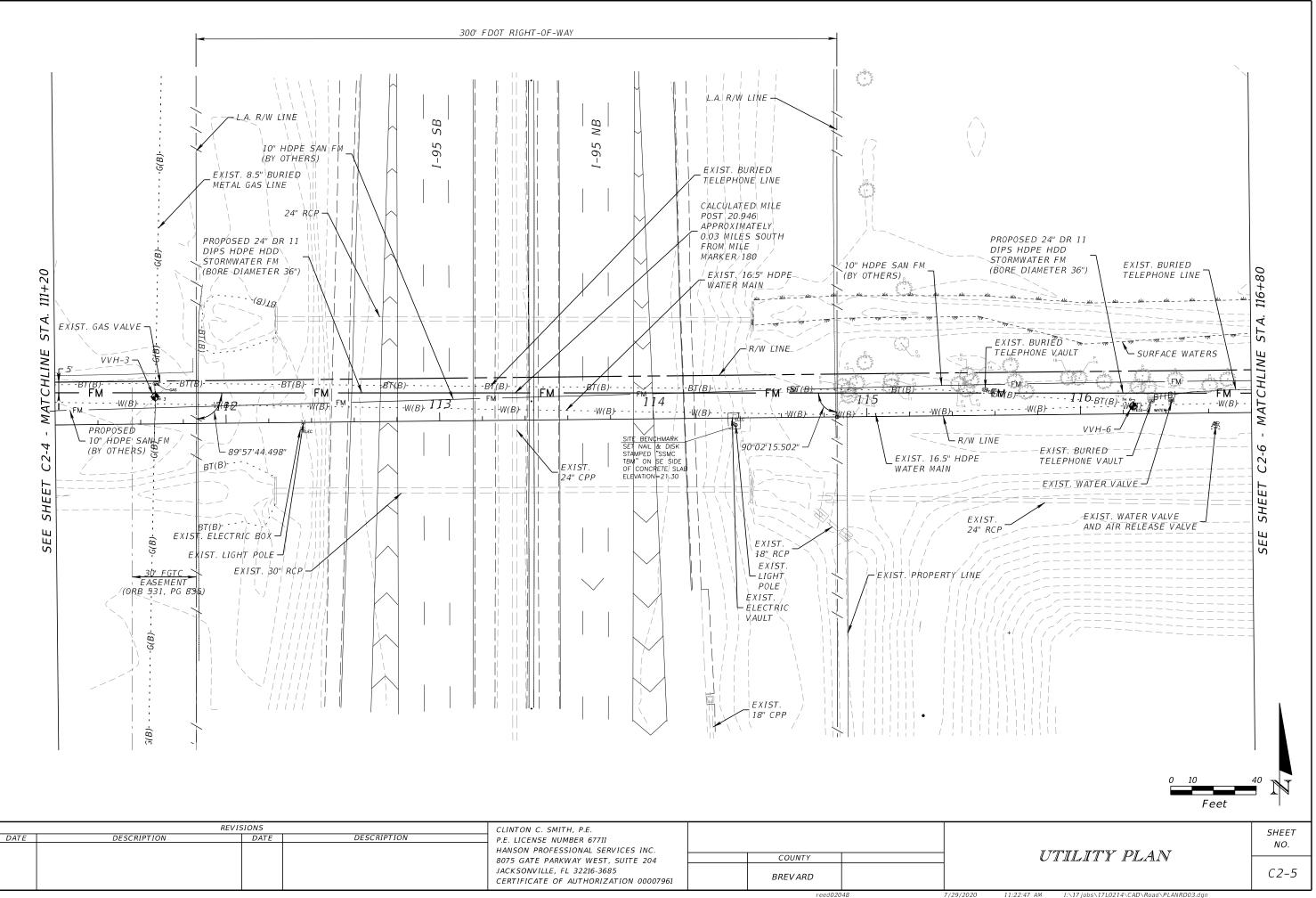
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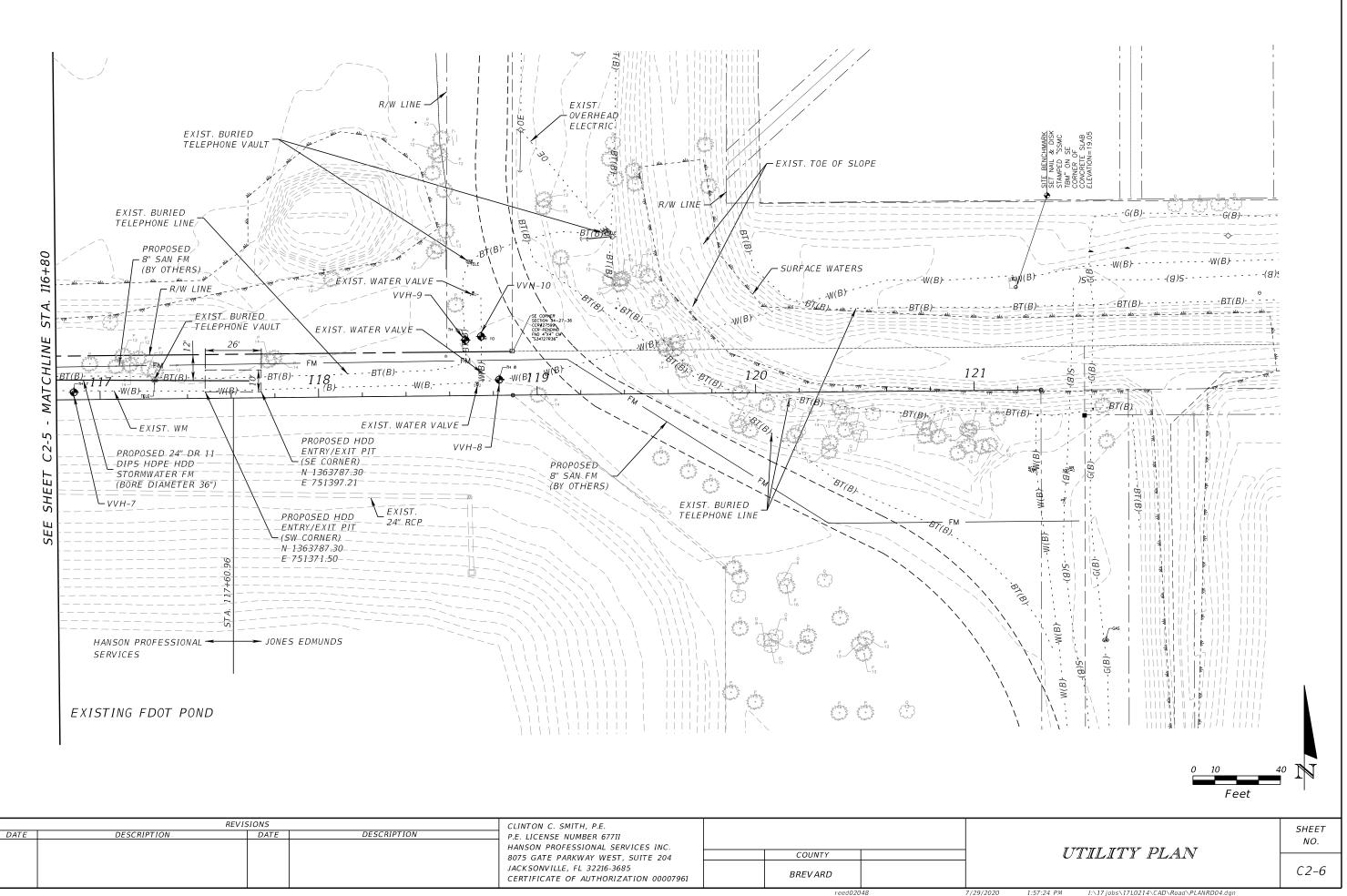
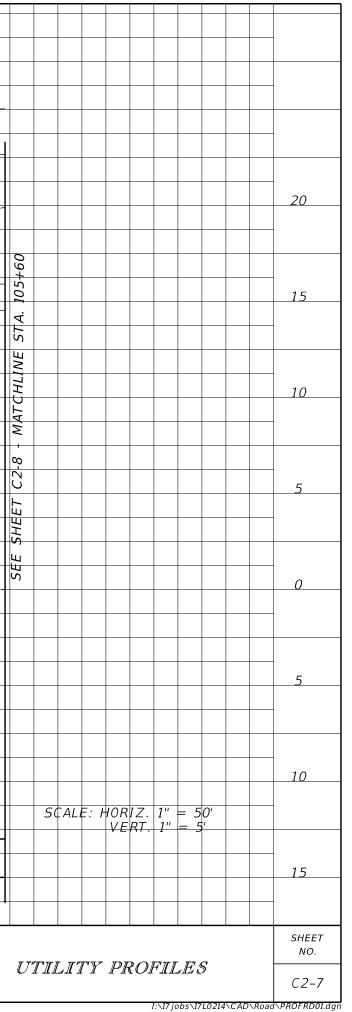
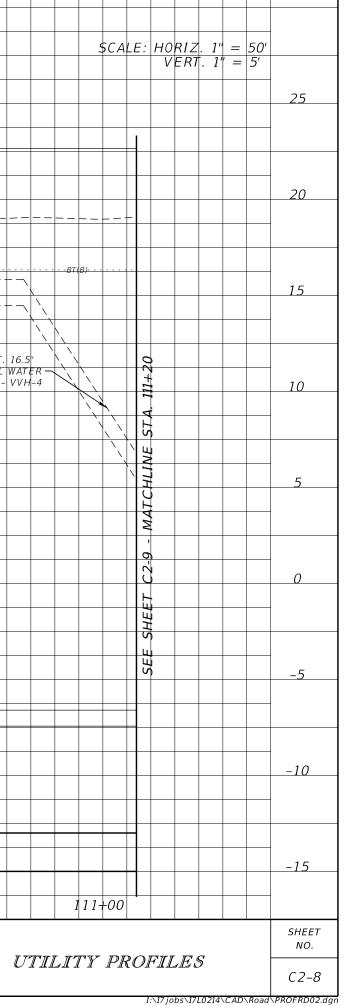


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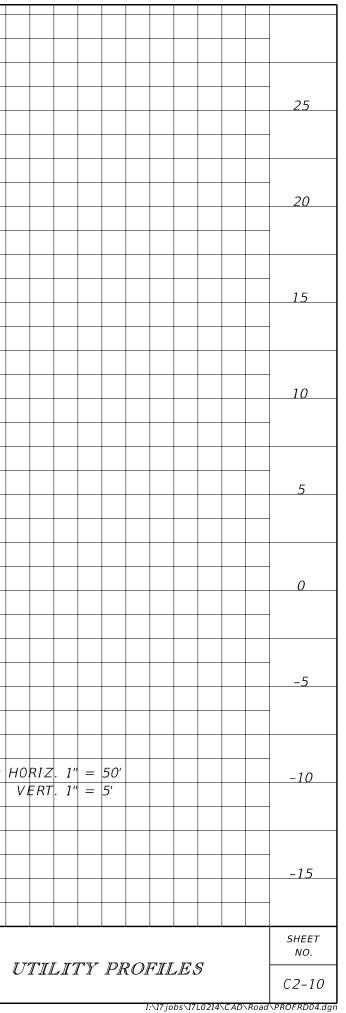
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			SUMMA	RY OF VERIF	IED UTII	ITIES		
/vh #	UTILITY DESCRIPTION	SIZE	MATERIALS	B ₂ a	nd/or Q		EXISTING GROUND	ТОР
VVII #	(Owner, Type)	5126	MATERIALS	STATION	OFFSET	LT/RT	ELEVATION	ELEVATION
VVH - 1	BT, AT&T	1.5"	DBC	105+50.90	11.57	LT	19.69	16.44
VVH-2	WM, BREVARD COUNTY	16.5"	DIP	109+54.36	11.15	LT	18.82	15.82
VVH-3	GM, ENERGY TRANSFER	8.5"	MET	111+66.92	12.62	LT	19.01	12.76
VVH - 4	WM, BREVARD COUNTY	16.5"	MET	111+04.71	10.96	LT	18.88	9.13
VVH - 5	GM, ENERGY TRANSFER	26"	MET	109+63.32	8.05	LT	18.86	13.61
VVH-6	WM, BREVARD COUNTY	16.5"	HDPE	116+24.59	3.59	LT	18.38	14.88
VVH-7	WM, BREVARD COUNTY	16.5"	HDPE	116+88.03	3.35	LT	18.78	15.68
VVH-8	WM, BREVARD COUNTY	16.5"	HDPE	118+83.85	7.13	LT	19.01	15.26
VVH - 9	BT, AT&T	1 "	DBC	118+67.49	25.38	LT	19.00	16.25
VVH-10	WM, BREVARD COUNTY	16.5"	HDPE	118+74.66	27.03	LT	19.02	14.87

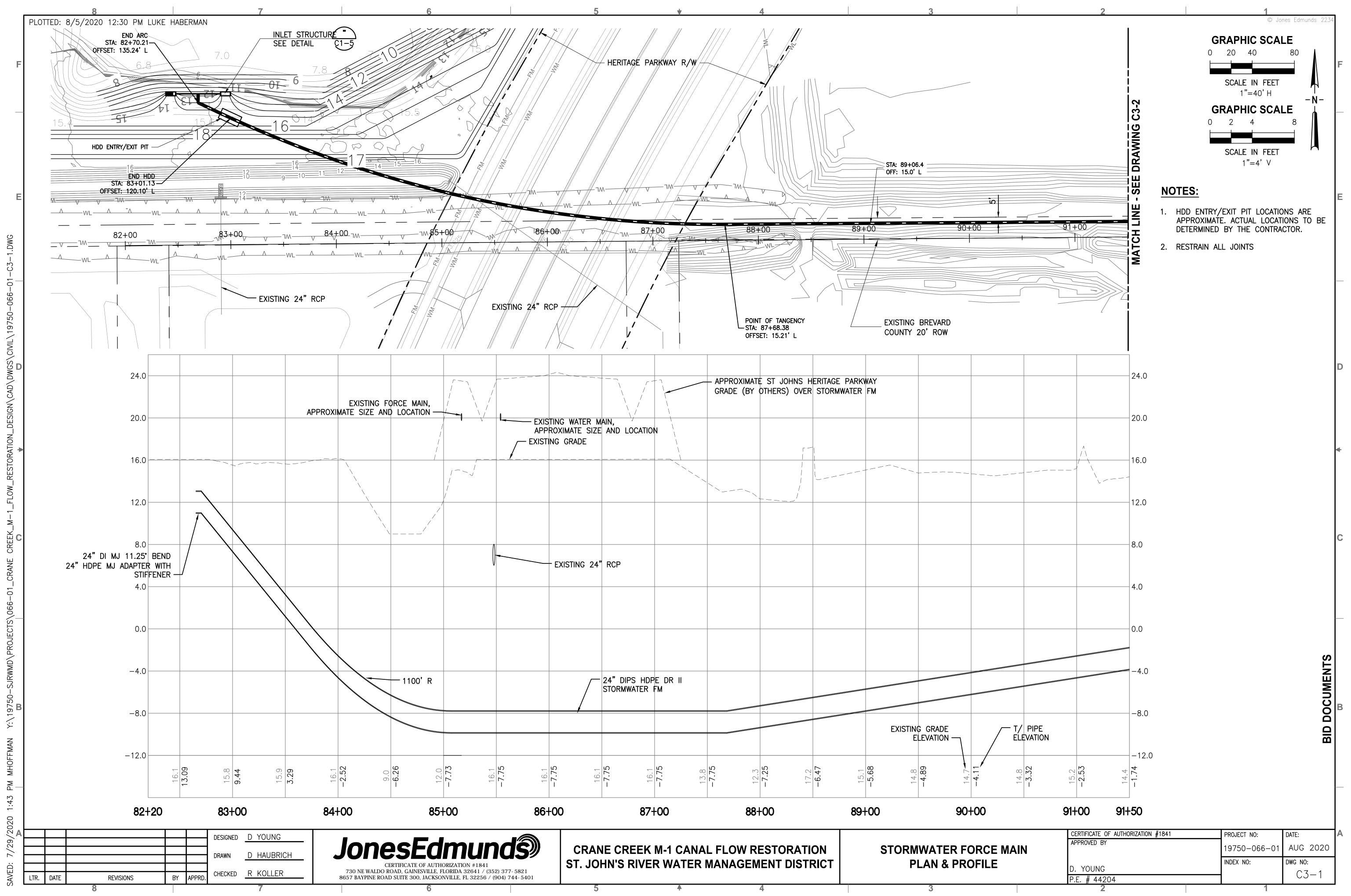
	REVI.	SIONS		CLINTON C. SMITH, P.E.				
DATE	DESCRIPTION	DATE	DESCRIPTION	P.E. LICENSE NUMBER 67711				
				HANSON PROFESSIONAL SERVICES INC. 8075 GATE PARKWAY WEST, SUITE 204	COUNTY		-	SU
				JACKSONVILLE, FL 32216-3685 CERTIFICATE OF AUTHORIZATION 00007961	BREVARD			
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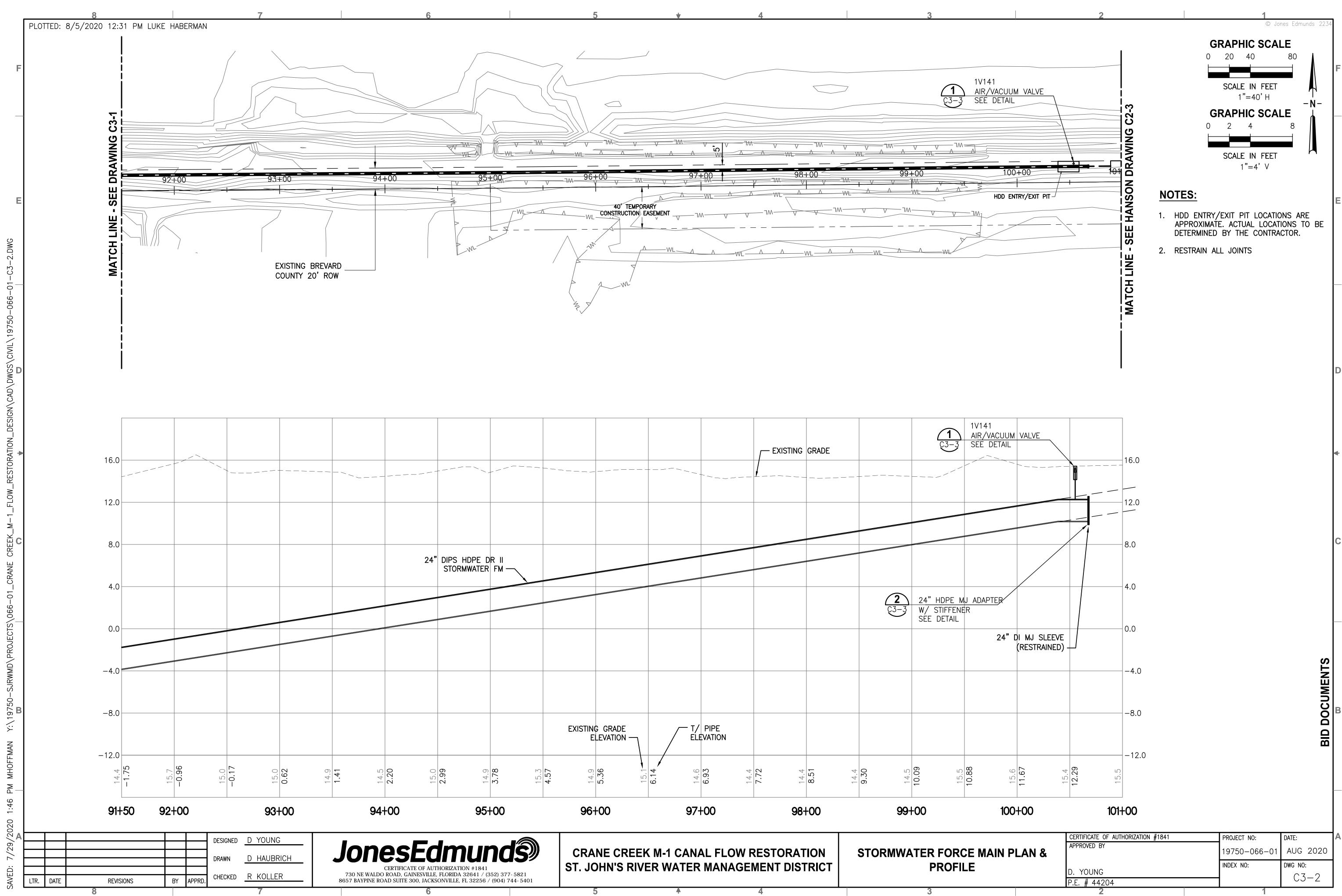
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SHEET NO.



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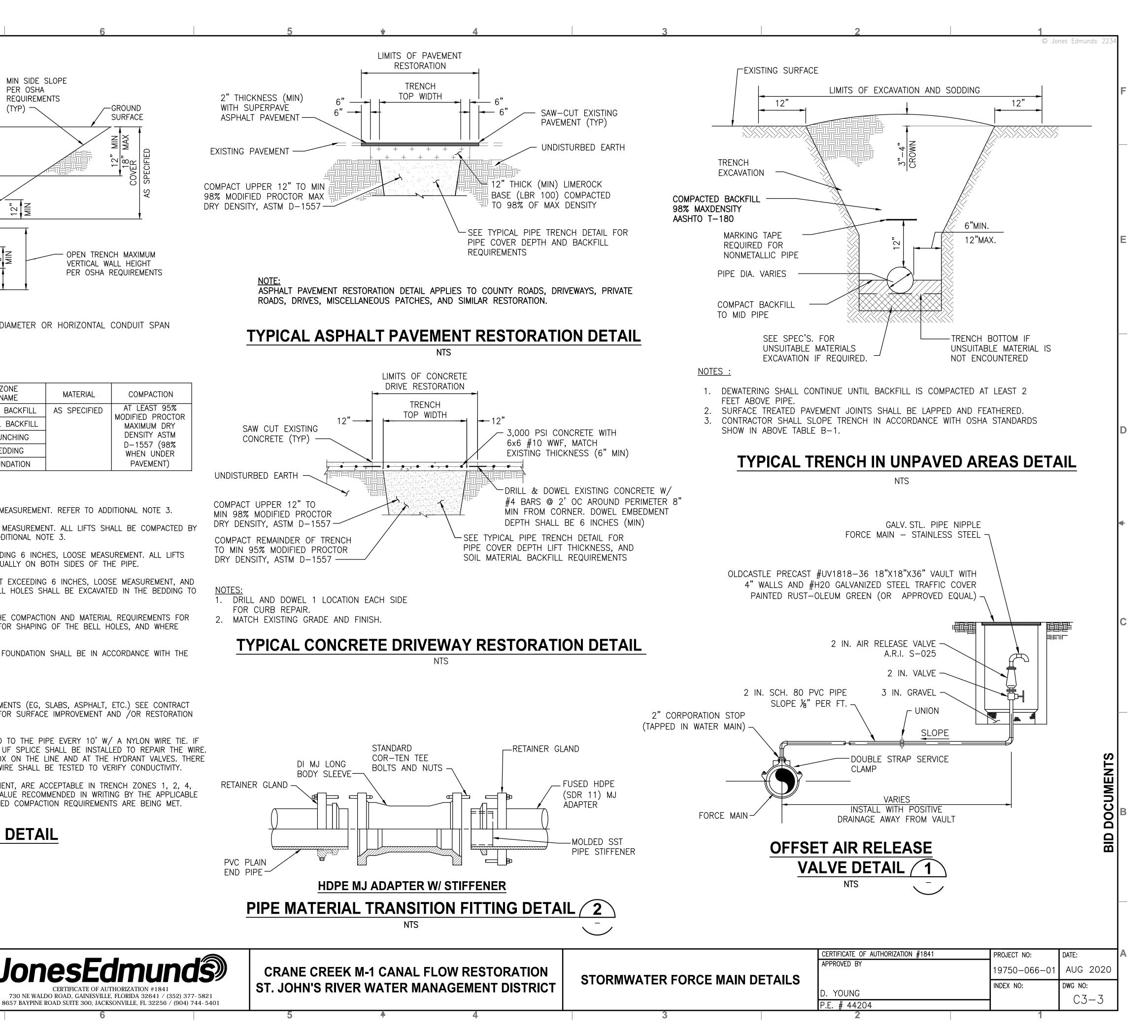
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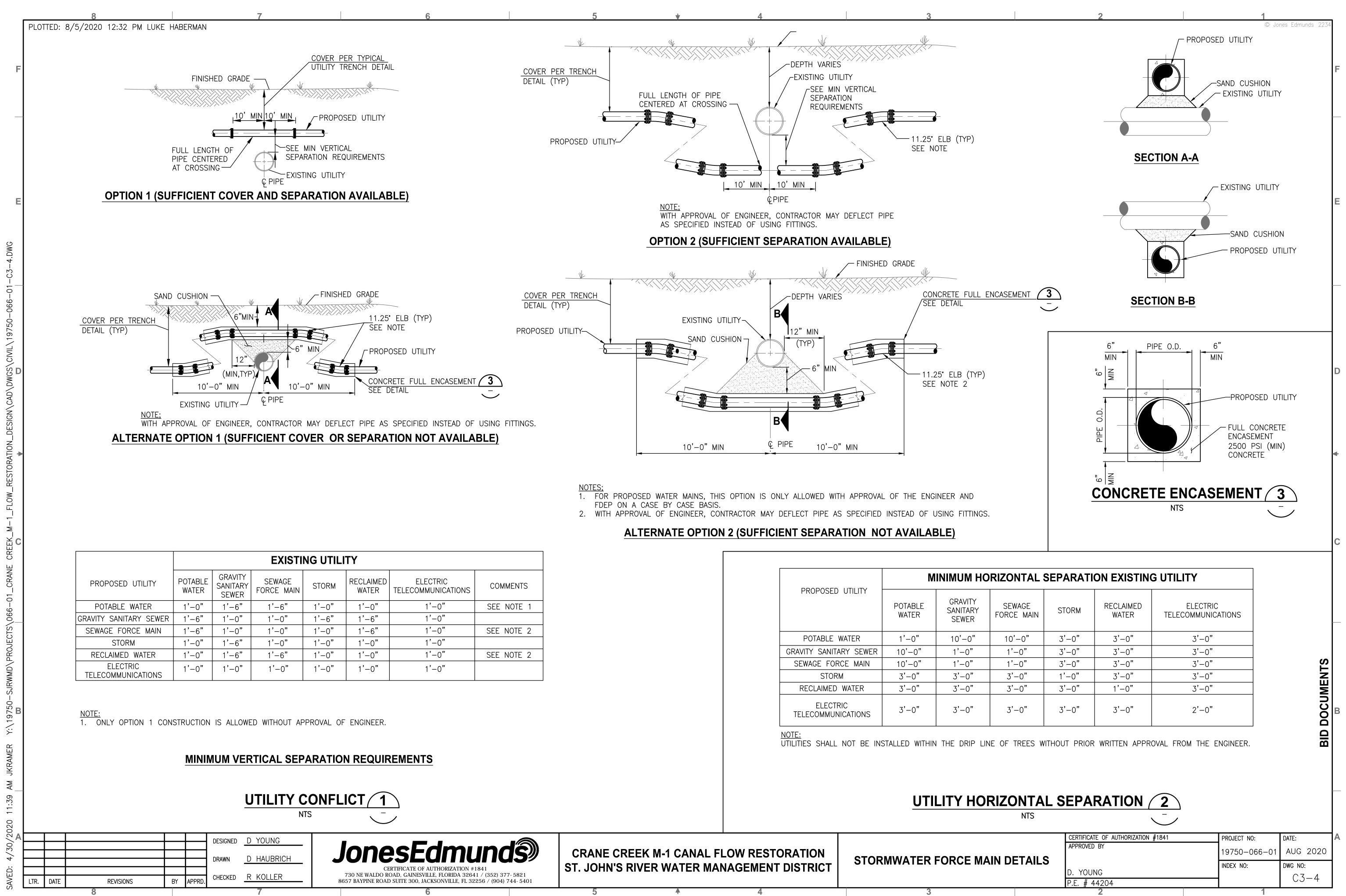
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	PLOTTED: 8/5/2020 12:32 PM LUKE HABE		OR CONDUIT			
F	UNDISTURBED EARTH (TYP)	ىپى FOR SHORED TRENCHES WARNING TAPE	FOR OPEN TRENCHES	MIN SIDE SI PER OSHA REQUIREMEN (TYP)	NTS	GROUND SURFACE
	WHERE SHORING IS NOT EXTENDED TO SURFACE, SLOPE EXCAVATION AWAY FROM TOP OF SHORING PER OSHA REQUIREMENTS PRIOR TO COMPLETION OF FINAL		1			COVER MAX SPECIFIED
	BACKFILL, REMOVE SHEETING ABOVE 12" OF TOP OF PIPE; REMAINDER OF SHEETING TO BE LEFT IN PLACE PIPE OUTSIDE DIAMETER OR			12" MIN		AS S
E	VERTICAL CONDUIT SPAN PIPE SPRING LINE OR CENTERLINE OF VERTICAL CONDUIT SPAN SHEETING OR TRENCH BOX FOR SHEETING TYPE CONSTRUCTION, DRIVE SHEETING BELOW BOTTOM OF EXCAVATION FOR LATERAL SUPPORT AS REQUIRED BY THE CONTRACTOR'S REGISTERED ENGINEER – TRACING WIRE REQUIRED REGARDLESS OF		3		VERTICAL W/ PER OSHA I	REQUIREMENTS
	TRENCH TYPE, (REFER TO ADDITIONAL NOTE <u>NOMINAL PIPE DIAMETER</u> MINIMUM OR HORIZONTAL SIDEWALL	2)/ ADDITIONAL	ZONE	ZONE	MATERIAL	COMPACTIO
D	CONDUIT SPANCLEARANCE(INCHES)A (INCHES)	EXCAVATION DEPTH (1) B (INCHES) 12 18 L IS ENCOUNTERED.	2 INITI 3 H 4	NAME AL BACKFILL AL BACKFILL AUNCHING BEDDING DUNDATION	AS SPECIFIED	AT LEAST 95 MODIFIED PROC MAXIMUM DF DENSITY AST D-1557 (98 WHEN UNDE PAVEMENT)
*	TRENCH ZONE NOTES:	IN LIFTS NOT EXCEEDIN	IG 6 INCHES, LOOS	E MEASUREMEN	T. ALL LIFTS SH	
	 (3) HAUNCHING SHALL BE IN COMPLETELY SHALL BE COMPACTED BY HAND TAMP (4) BEDDING SHALL BE INSTALLED IN COM SHALL BE COMPACTED BY HAND OR M PERMIT ASSEMBLY OF THE PIPE. REFE 	ING. HAUNCHING SHALL <u>PLETELY DEWATERED TR</u> IECHANICAL TAMPING. PF	BE BROUGHT UP E <u>ENCHES</u> IN LIFTS N ROPERLY SHAPED B	EQUALLY ON BO	OTH SIDES OF TH 6 INCHES, LOOS	IE PIPE. SE MEASUREMEN
С	NATIVE, UNDISTURBED MATERIAL <u>IN COU</u> <u>COMPACTED</u> BEDDING MATERIAL NEED I REFILL IS REQUIRED. 5 FOUNDATION SHALL BE REQUIRED WHE REQUIREMENTS FOR BEDDING. REFER T	NOT BE REPLACED OR I	REWORKED, EXCEPT	FOR SHAPING	OF THE BELL H	OLES, AND WHE
	ADDITIONAL NOTES: 1. FOR TRENCHES IN VEHICULAR TRA SPECIFICATIONS FOR ADDITIONAL C DETAILS WHERE APPLICABLE.					
	2. TRACING WIRE SHALL BE INSTALLE THE WIRE IS DAMAGED OR NEEDS THE ENDS OF THE TRACING WIRE SHALL BE A MINIMUM COIL OF 3'	TO BE EXTENDED A 3N SHALL BE BROUGHT UF LEFT UNDER THE VALVE	WATERPROOF TYP N EVERY VALVE E BOX COVER. THE	E UF SPLICE S BOX ON THE LI WIRE SHALL B	HALL BE INSTALI NE AND AT THE E TESTED TO VE	LED TO REPAIR HYDRANT VALVE RIFY CONDUCTIV
В	3. ALTERNATIVE LIFT THICKNESSES, N AND 5 PROVIDED 1) THE LIFT THI PIPE MANUFACTURER AND 2) FIELI TYI	CKNESS DOES NOT EXC	EED THE MAXIMUM RM THAT THE SPEC	VALUE RECOMN IFIED COMPACTI	IENDED IN WRITI ON REQUIREMEN	NG BY THE APP
			NTS			
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Α		DESIGNED D YOU	JNG JBRICH	Jon	ESEC	Imui THORIZATION #1841

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BY APPRD.

REVISIONS

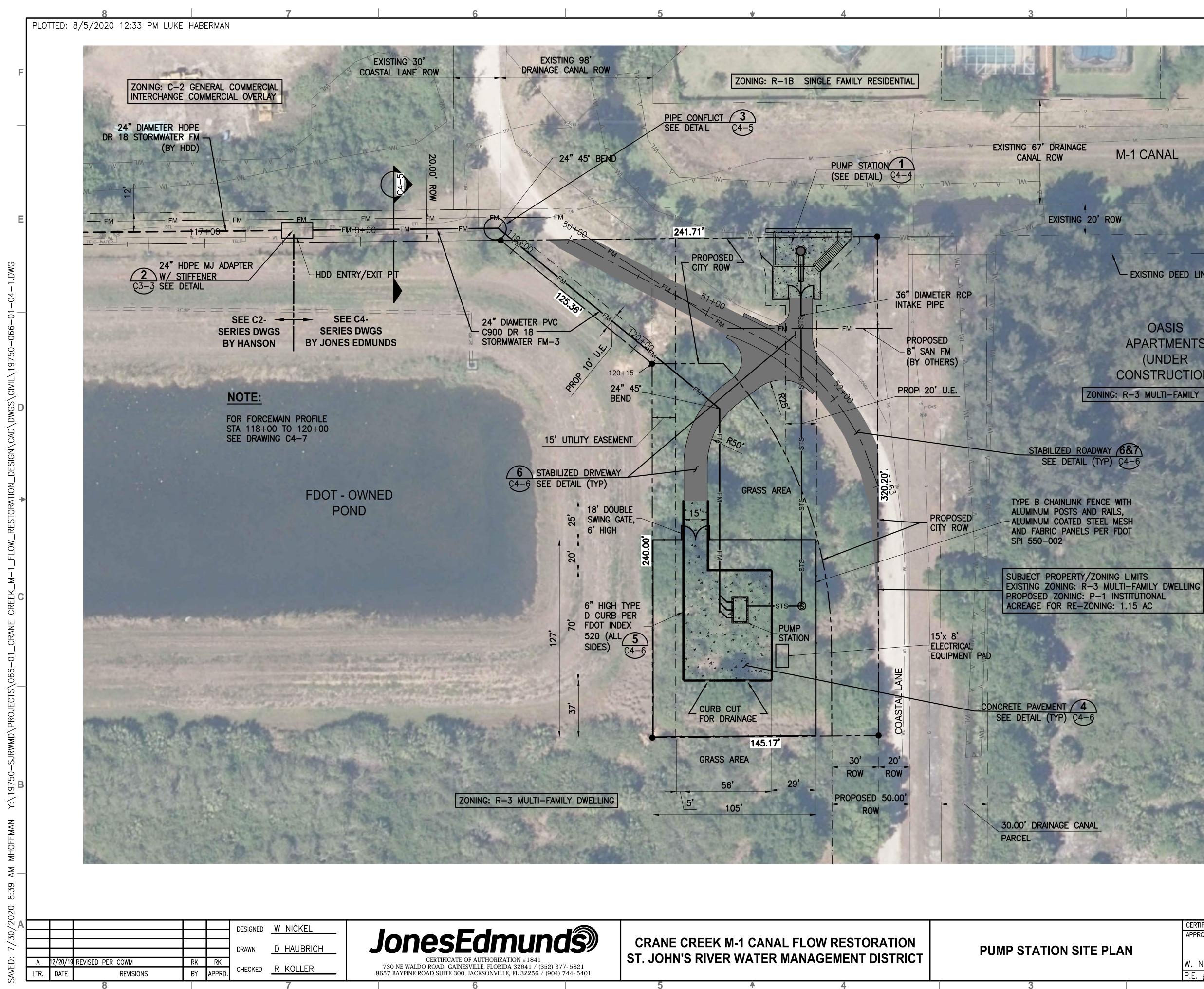




<u>INUTE:</u>								
UTILITIES	SHALL	NOT	ΒE	INSTALLED	WITHIN	THE	DRIP	LIN

	М	
PROPOSED UTILITY	POTABLE WATER	GRAVITY SANITARY SEWER
POTABLE WATER	1'-0"	10'-0"
GRAVITY SANITARY SEWER	10'-0"	1'-0"
SEWAGE FORCE MAIN	10'-0"	1'-0"
STORM	3'-0"	3'-0"
RECLAIMED WATER	3'-0"	3'-0"
ELECTRIC TELECOMMUNICATIONS	3'-0"	3'-0"

NS	COMMENTS
	SEE NOTE 1
	SEE NOTE 2
	SEE NOTE 2



- EXISTING DEED LINE

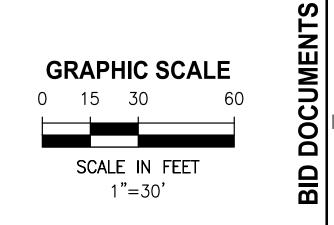
M-1 CANAL

OASIS **APARTMENTS** (UNDER CONSTRUCTION)

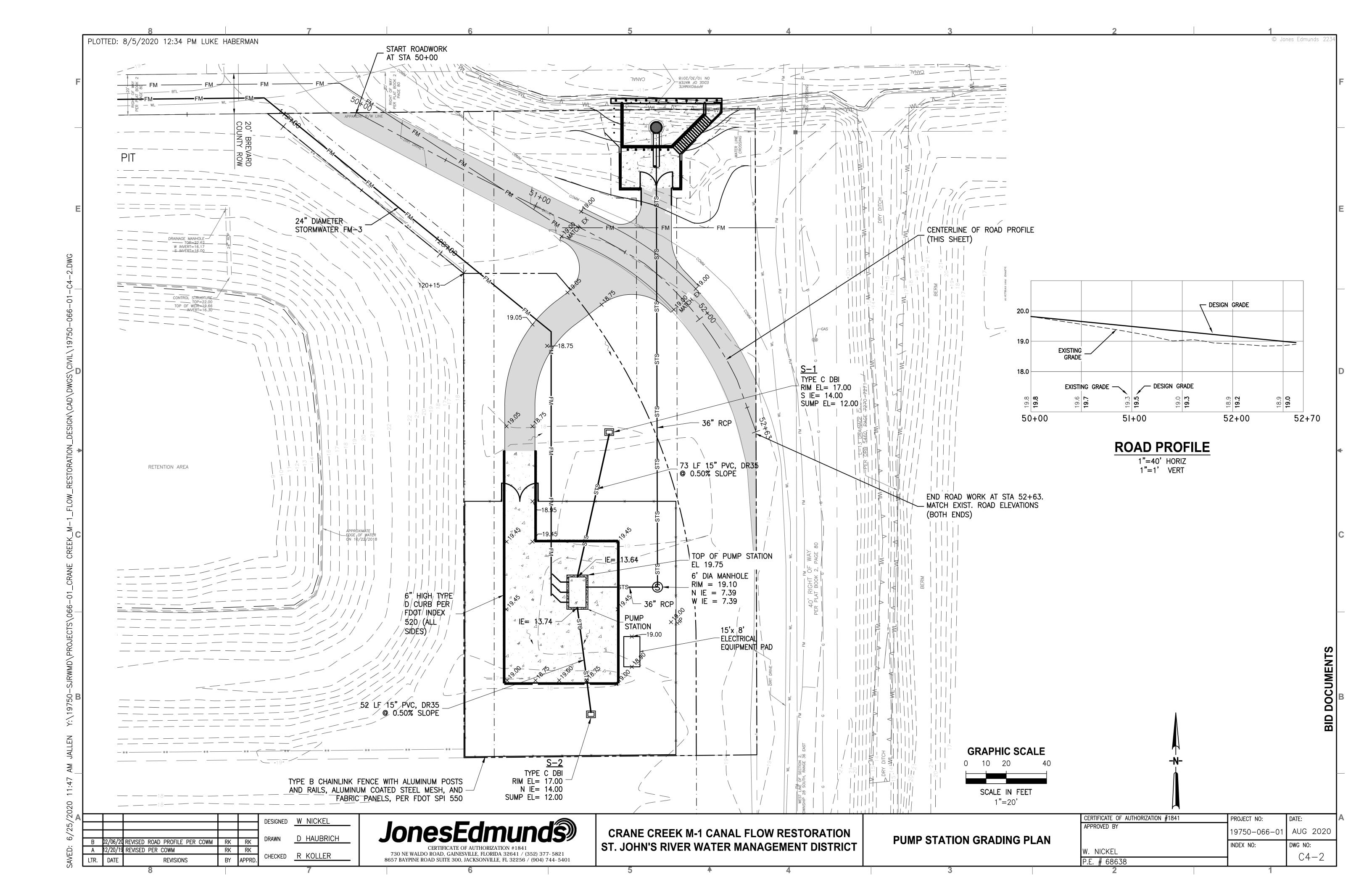
ZONING: R-3 MULTI-FAMILY DWELLING

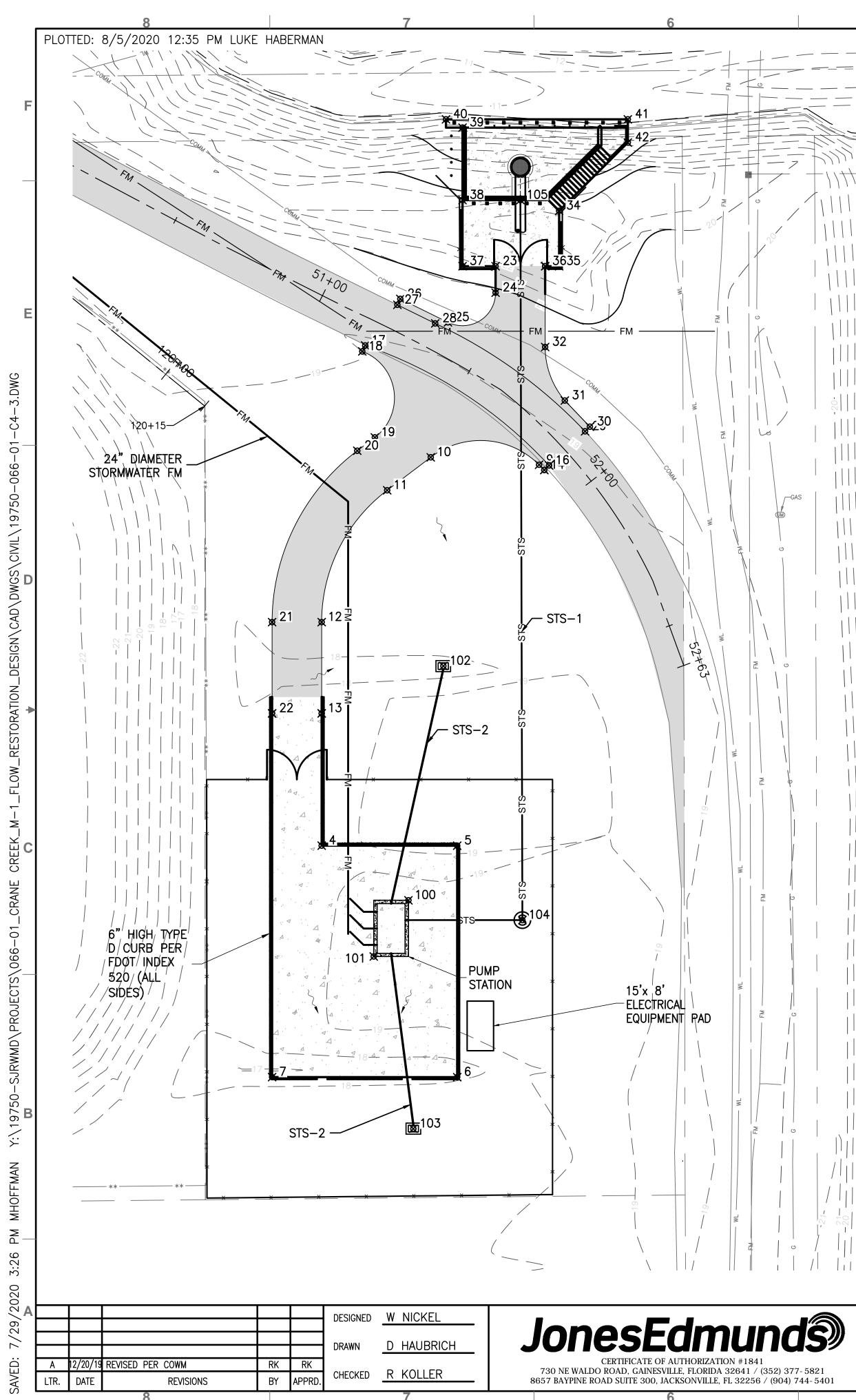
PROJECT INFORMATION:

- NO BUILDINGS
- NO AUDIBLE ALARMS
- EQUIPMENT PANELS UNDER 8 FEET OF HEIGHT
- 6 FOOT FENCING, WITH FABRIC PANEL EXISTING ROAD WITHIN SUBJECT PROPERTY TO BE STABILIZED AND COMPACTED _



CERTIFICATE OF AUTHORIZATION #1841	PROJECT NO:	DATE:	Α
APPROVED BY	19750-066-01	AUG 2020	
W. NICKEL	INDEX NO:	DWG NO:	
P.E. # 68638		64-1	
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со	PAVING ORDINATE	-
POINT	NORTHING	EASTING
1	1363503.63	751685.93
2	1363613.63	751629.93
3	1363613.63	751644.93
4	1363573.64	751644.93
5	1363573.63	751685.93
6	1363503.63	751685.93
7	1363503.64	751629.93
8	1363687.22	751712.27
9	1363688.81	751710.69
10	1363691.06	751677.92
11	1363681.09	751664.74
12	1363641.22	751644.93
13	1363613.63	751644.93
14	1363687.22	751712.27
15	1363688.60	751713.72
16	1363688.60	751713.72
17	1363724.88	751658.09
18	1363723.08	751657.21
19	1363697.07	751661.01
20	1363693.05	751655.69

PAVING COORDINATE TABLE					
POINT	NORTHING	EASTING			
21	1363641.22	751629.93			
22	1363613.63	751629.93			
23	1363748.84	751697.53			
24	1363740.85	751697.53			
25	1363731.87	751683.12			
26	1363738.97	751668.70			
27	1363737.17	751667.82			
28	1363731.54	751679.28			
29	1363698.92	751724.60			
30	1363700.30	751726.05			
31	1363708.22	751718.47			
32	1363724.40	751712.53			
33	1363748.84	751712.53			
34	1363765.59	751716.76			
35	1363748.84	751716.76			
36	1363748.84	751712.53			
37	1363748.84	751687.53			
38	1363768.84	751687.53			
39	1363790.75	751687.53			
40	1363793.25	751682.53			

GRADING COORDINATE TABLE				
POINT	NORTHING	EASTING		
100	1363557.11	751671.17		
101	1363540.13	751660.68		
102	1363627.95	751681.74		
103	1363488.02	751672.66		
104	1363551.13	751705.64		
105	1363768.84	751705.04		

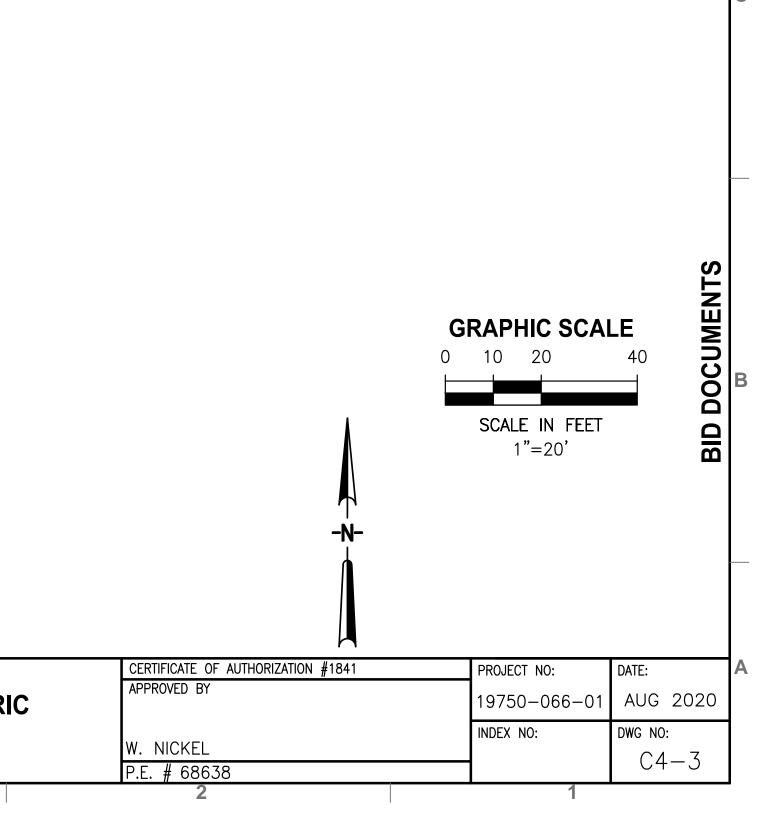
CRANE CREEK M-1 CANAL FLOW RESTORATION ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT

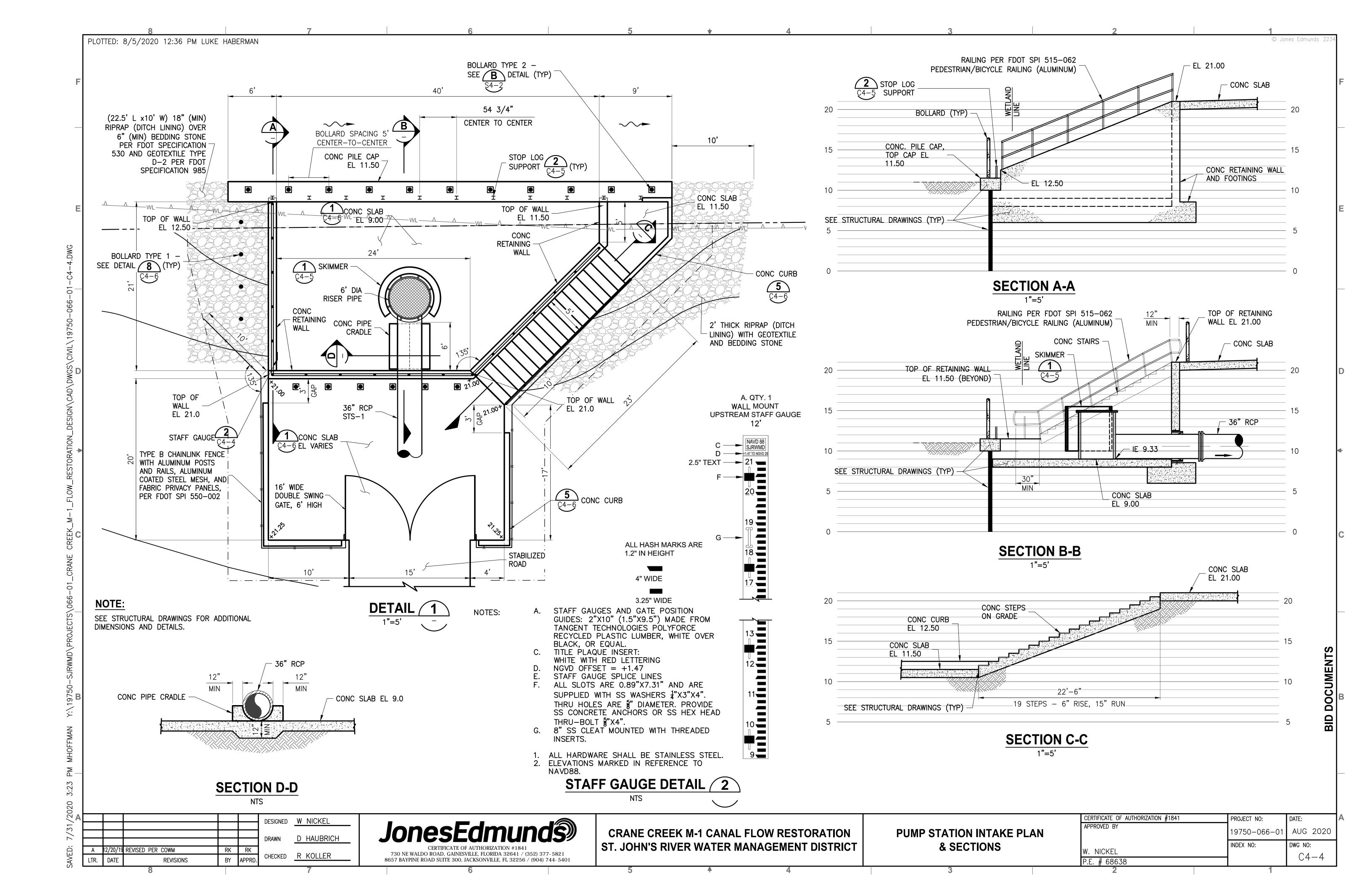
PUMP STATION GEOMETRIC CONTROL PLAN

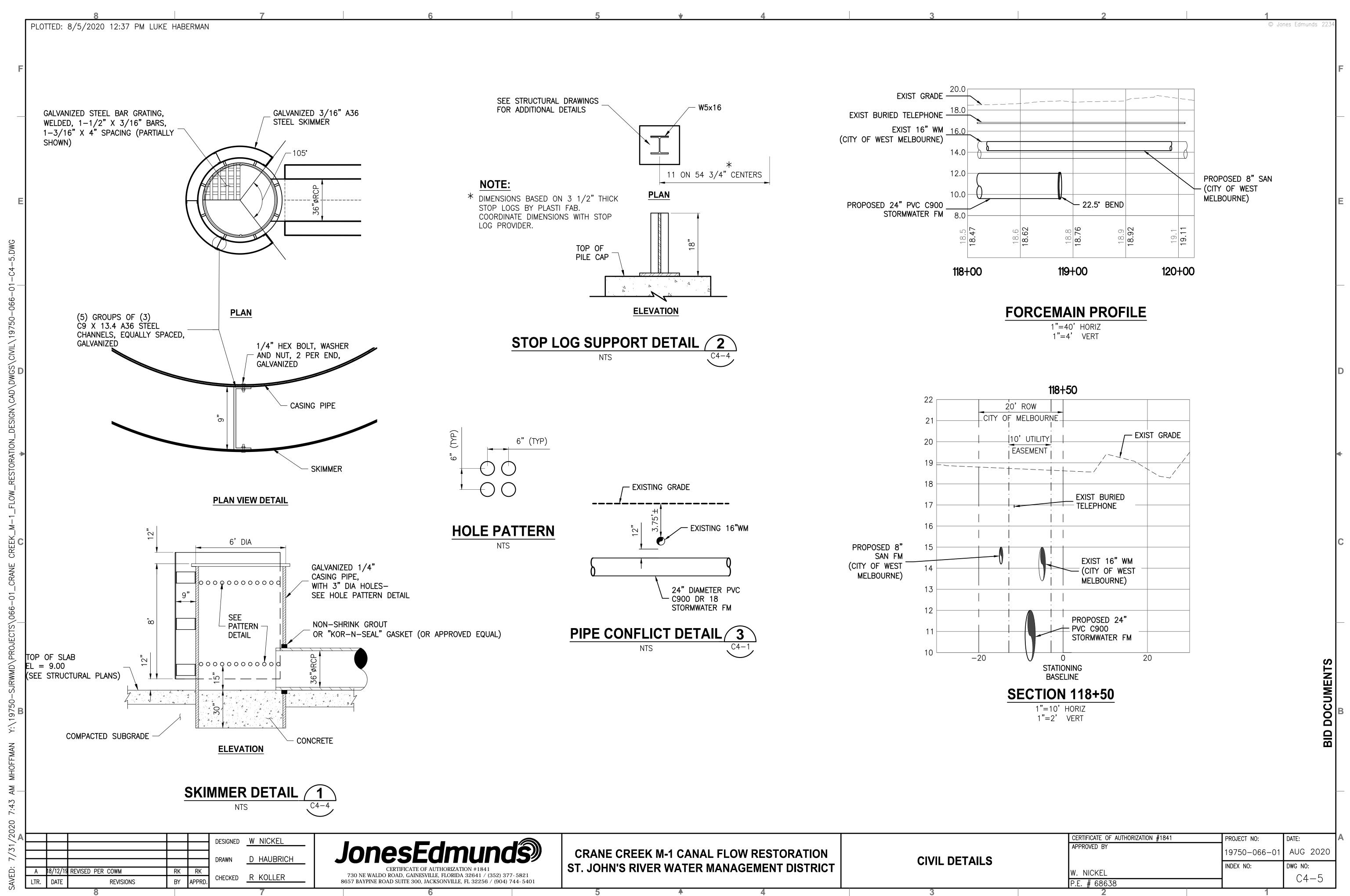
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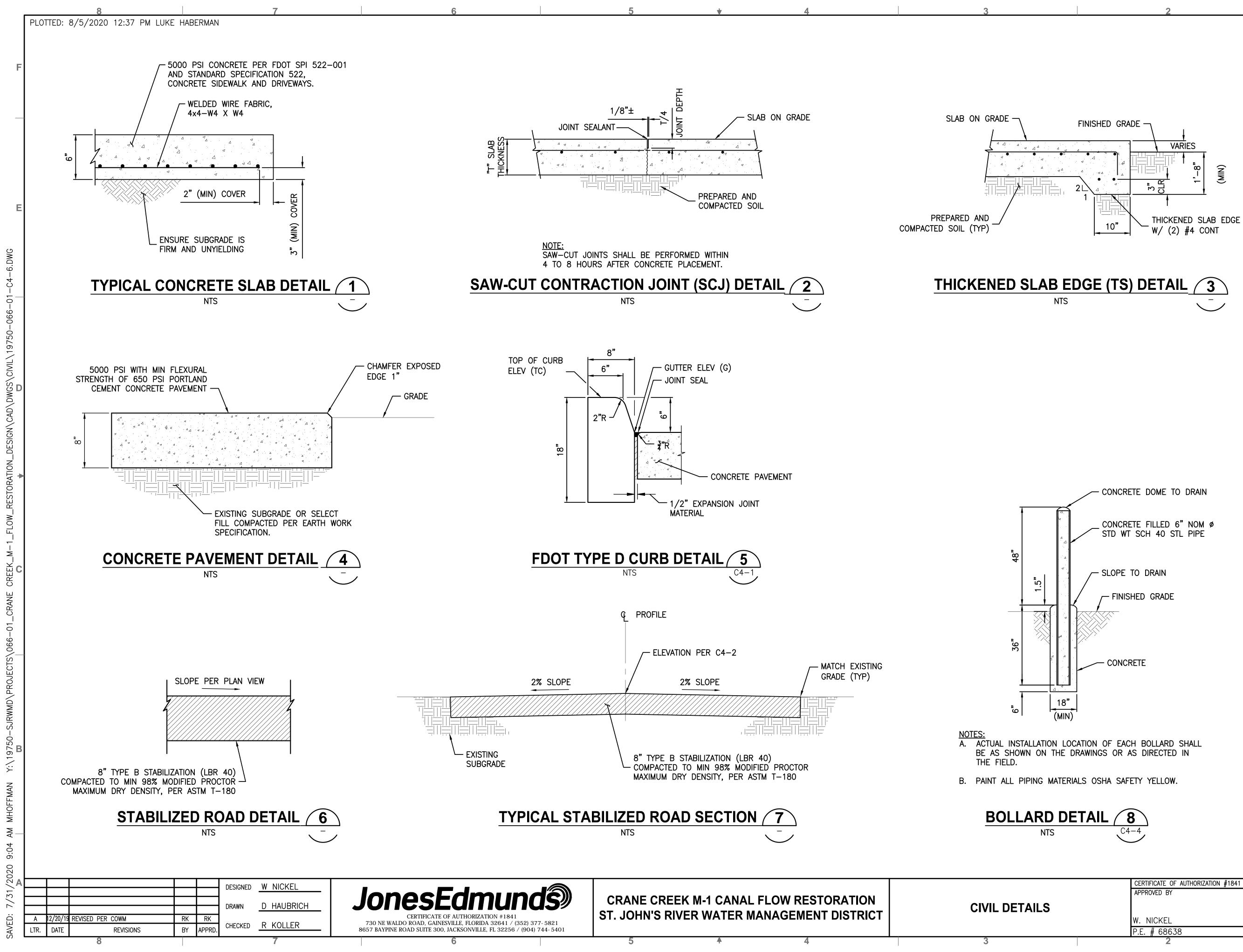
© Jones Edmunds 223

PAVING COORDINATE TABLE					
POINT	NORTHING	EASTING			
41	1363793.25	751737.53			
42	1363786.24	751737.53			
100	1363557.11	751671.17			



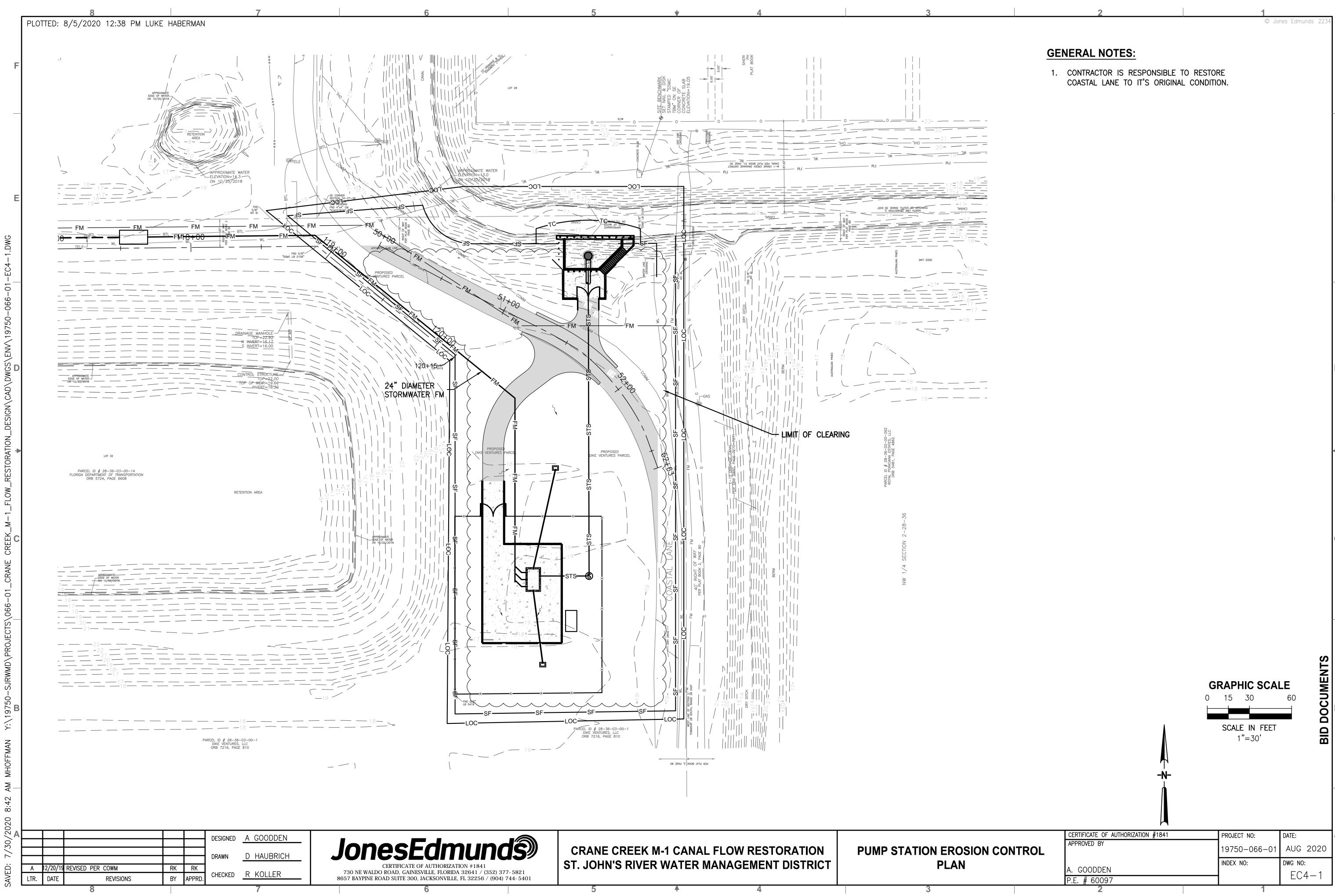






CERTIFICATE OF AUTHORIZATION #1841	PROJECT NO:	DATE:	Α
APPROVED BY	19750-066-01	AUG 2020	
W. NICKEL	INDEX NO:	DWG NO:	
P.E. # 68638	1		l

BID DOCUMENTS



	SITE DESCRIPTION PROJECT NAME(S) AND LOCATION: CRANE CREEK M-1 CANAL FLOW RESTORATION, PUMP STATION COUNTY: SECTIONS 03, TOWNSHIP 28S; RANGE 36E PROPERTY OWNER AND ADDRESS: PROPERTY OWNER AND ADDRESS: PROPERTY PURCHASE TO BE FINALIZED PRIOR TO CONSTRUCTION ST. JOHNS RIVER WATER MANAGEMENT DISTRICT 4049 REID STREET PALATKA, FLORIDA 32177 DESCRIPTION: THIS PROJECT WILL CONSIST OF: THE CONSTRUCTION OF A NEW STORMWATER PUMP STATION, PUMP STATION INLET, ACCESS DRIVEWAY, CONCRETE PAD, AND ASSOCIATED GRADING. SOIL DISTURBING ACTIVITIES WILL INCLUDE: CLEARING, GRUBBING; INSTALLING STABILIZED CONSTRUCTION ENTRANCE, PERIMETER, AND OTHER EROSION AND SEDIMENT CONTROLS; GRADING; EXCAVATION FOR STORMWATER PUMP STATION, CONSTRUCTION OF ACCESS DRIVEWAY. SOILS: SEE GEOTECHNICAL REPORT FOR SOILS DATA. SITE MAPS: SEE ATTACHED GRADING PLAN FOR PRE & POST DEVELOPMENT GRADES, AREAS OF SOILS, DISTURBANCE, LOCATION OF SURFACE WATERS, WETLANDS, PROTECTED AREAS, MAJOR STRUCTURAL AND NONSTRUCTURAL CONTROLS AND STORM WATER DISCHARGE POINTS. SEE ATTACHED EROSION & TURBIDITY CONTROL PLAN FOR LOCATION OF TEMPORARY STABILIZATION PRACTICES, AND TURBIDITY BARRIERS. SEE GENERAL NOTES AND SPECIFICATIONS FOR REQUIREM	GENERAL THE CONTRACTOR SHALL AT A MINIMUM IMIOUTLINED BELOW AND THOSE MEASURES S CONTROL PLAN. IN ADDITION THE CONTRAC REQUIRED TO BE IN COMPLIANCE WITH APP WATER QUALITY STANDARDS DEPENDING ON OF CONSTRUCTION. SEQUENCE OF MAJOR ACTIVITIES 1. COMPLETE AND SUBMIT NOTICE OF INTENT (NOI) TO FDEP. 2. INSPECT AND DOCUMENT CONDITION OF COASTAL LANE. 3. INSTALL STABILIZED CONSTRUCTION ENTRANCES. 4. INSTALL SILT FENCES AND OTHER EROSION CONTROL DEVICES. 5. STOCK PILE TOP SOIL AS REQUIRED. 6. PERFORM PRELIMINARY GRADING ON SITE AS REQUIRED. 7. STABILIZE CLEARED AREAS AND STOCKPILES AS SOON AS PRACTICABLE. 8. CONSTRUCT STORMWATER PUMP STATION 9. INSTALL TUBIDITY CURTAIN. 10. CONSTRUCT INLET AND INLET PIPING.	HOWN ON THE EROSIC TOR SHALL UNDERTAK PLICABLE PERMIT CONI THE NATURE OF MAT
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	TEMFORART AND FERMANENT STADIEZATION.	CONTROLS	
	SITE AREA:	IT IS THE CONTRACTORS RESPONSIBILITY TO TURBIDITY CONTROLS AS SHOWN ON THE S	
	TOTAL AREA OF SITE – 1.15 ACRES TOTAL AREA TO BE DISTURBED – 1 ACRES	PLAN. IT IS ALSO THE CONTRACTORS RESP CONTROLS ARE PROPERLY INSTALLED, MAIN	ONSIBILITY TO ENSURE
		TO PREVENT TURBID OR POLLUTED WATER THE CONTRACTOR WILL ADJUST THE EROSIC	FROM LEAVING THE P ON CONTROL PLAN AN
	NAME OF RECEIVING WATERS:	ADDITIONAL CONTROL MEASURES, AS REQUI ALL FEDERAL STATE AND LOCAL EROSION A AS REQUIRED TO MEET THE SEDIMENT AND	ND SEDIMENT CONTRO
	M—1 CANAL. STORMWATER TREATMENT PROVIDED BY STORMWATER TREATMENT AREA BY WAY OF THE M—1 CANAL	ON THE PROJECT SITE BY THE REGULATOR	
	AND M-1 CANAL PUMP STATION.	EROSION AND SEDIMENT CONTROLS	
	THIS PLAN UTILIZES BEST MANAGEMENT PRACTICES TO CONTROL EROSION AND	<u>STABILIZATION PRACTICES</u> .1. FILTER FABRIC BARRIER: FILTER FABRIC E	
	TURBIDITY CAUSED BY STORM WATER RUN OFF, AN EROSION & TURBIDITY PLAN HAS BEEN PREPARED TO INSTRUCT THE CONTRACTOR ON PLACEMENT OF THESE CONTROLS, IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL AND	DISTURBED AREAS SUBJECT TO SHEET AN LIMITATIONS:	
	MAINTAIN THE CONTROLS AS PER PLAN AS WELL AS ENSURING THE PLAN IS PROVIDING THE PROPER PROTECTION AS REQUIRED BY FEDERAL, STATE, AND	A. WHERE THE MAXIMUM SLOPE B. IN MINOR SWALES OR DITCH L DRAINAGE AREA IS NO GREATER	INES WHERE THE MAX
	LOCAL LAWS. REFER TO 'CONTRACTORS REQUIREMENTS' FOR A VERBAL DESCRIPTION OF THE CONTROLS THAT MAY BE IMPLEMENTED.	2. BRUSH BARRIER WITH FILTER FABRIC: BR DISTURBED AREAS SUBJECT TO SHEET A	RUSH BARRIER MAY BE
	CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS	MATERIAL IS AVAILABLE ON SITE. 3. LEVEL SPREADER: A LEVEL SPREADER M	AY BE USED WHERE S
	IN AN EFFORT TO ENSURE COMPLIANCE WITH FEDERAL, STATE, AND LOCAL LAWS REGARDING EROSION AND TURBIDITY CONTROLS, THE FOLLOWING PERMITS	RUNOFF IS INTERCEPTED AND DIVERTED UNDISTURBED STABILIZED AREAS. THIS P	AWAY FROM THE GRAI RACTICE APPLIES ONL
	HAVE BEEN OBTAINED. FDEP ERP PERMIT	WHERE THE SPREADER CAN BE CONSTRU BELOW THE LEVEL UP IS STABILIZED. TH RECONCENTRATE AFTER RELEASE.	
		4. STOCKPILING MATERIAL: NO EXCAVATED M MANNER AS TO DIRECT RUNOFF DIRECTL	
-	POLLUTION PREVENTION PLAN CERTIFICATION I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS	ADJACENT WATER BODY OR STORM WATE	R COLLECTION FACILIT
	WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED	5. EXPOSED AREA LIMITATION: THE SURFACE CLEARING GRUBBING OPERATIONS OR EXC	AVATION AND FILLING
	AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FORGATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS,	EXCEED 2.0 ACRES. THIS REQUIREMENT M DETAILED EROSION CONTROL PLAN PREPA PLAN MUST INCLUDE A SCHEDULE, DESCR	RED BY THE CONTRAC
	TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE	METHODS AND EROSION CONTROL MANAGE OPENING OF ADDITIONAL AREA WILL NOT	
	INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.	6. TEMPORARY SEEDING: AREAS OPENED BY	CONSTRUCTION OPER
	SIGNED:	NOT ANTICIPATED TO BE RE-EXCAVATED O TREATMENT WITHIN 21 DAYS SHALL BE SI	DR DRESSED AND REC EEDED WITH A QUICK
		SPECIES WHICH WILL PROVIDE AN EARLY PLANTED AND WILL NOT LATER COMPETE	
	DATE: TIMING OF CONTROLS/MEASURES	_	
	AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE SILT FENCES,	_	
	STABILIZED CONSTRUCTION ENTRANCE AND TURBIDITY CURTAIN WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS	INVENTORY FOR POLLUTION PREV	VENTION PLAN
	PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. ONCE CONSTRUCTION ACTIVITY	THE MATERIAL OR SUBSTANCES LISTED BELD ONSITE DURING CONSTRUCTION:	OW ARE EXPECTED TO
	CEASES PERMANENTLY IN ACCORDANCE WITH THE PLANS AND AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT TRAPS AND STABILIZED IN ACCORDANCE WITH THE	CONCRETE FERTILIZERS DETERGENTS PETROLEUM BASED PR	WOOD
	SEDIMENT AND EROSION CONTROL PLAN.	CLEANING SOLVENTS PAINTS	
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	CONTRACTOR REQUIREMENTS	SPILL PREVENTION
NT THE CONTRACTOR'S REQUIREMENTS ON THE EROSION AND TURBIDITY HALL UNDERTAKE ADDITIONAL MEASURES LE PERMIT CONDITIONS AND STATE NATURE OF MATERIALS AND METHODS	 9. TEMPORARY REGRASSING: IF, AFTER 14 DAYS FROM SEEDING, THE TEMPORARY GRASSED AREAS HAVE NOT MAINTAINED A MINIMUM OF 75 PERCENT GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATIVE COVER. 10. MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED. 	MATERIAL MANAGEMENT PRACTICES THE FOLLOWING ARE THE MATERIAL MANAGEMENT PR USED TO REDUCE THE RISK OF SPILLS OR OTHER A MATERIALS AND SUBSTANCES TO STORM WATER RUN <u>GOOD HOUSEKEEPING</u> THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WI
 CONSTRUCT DRIVE AREAS. COMPLETE GRADING AND INSTALL PERMANENT SEEDING/SOD. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY DIVERSION SWALES/DIKES AND RESEED/SOD AS REQUIRED. RESTORE COASTAL LANE TO ORIGINAL CONDITION. COMPLETE AND SUBMIT NOTICE OF TERMINATION (NOT) TO FDEP. 	 11. PERMANENT EROSION CONTROL: THE EROSION CONTROL FACILITIES OF THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON THE OFFSITE FACILITIES. 12. PERMANENT SEEDING: ALL AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION WILL BE SEEDED. STRUCTURAL PRACTICES 1. TEMPORARY DIVERSION DIKE: TEMPORARY DIVERSION DIKES MAY BE USED TO DIVERT RUNOFF THROUGH A SEDIMENT TRAP IS USUALLY INSTALLED IN AN DRAINAGEWAY AT A STORM DRAIN INLET OR AT OTHER POINTS OF DISCHARGE FROM A DISTURBED AREA WITH THE FOLLOWING LIMITATIONS: A. THE SEDIMENT TRAP MAY BE CONSTRUCTED EITHER INDEPENDENTLY OR IN CONJUNCTION WITH A TEMPORARY DIVERSION DIKE. 3. OUTLET PROTECTION: APPLICABLE TO THE OUTLETS OF ALL PIPES AND PAVED CHANNEL SECTIONS WHERE THE VELOCITY OF THE RECEIVING CHANNEL OR AREA. 	DURING THE CONSTRUCTION PROJECT. AN EFFORT WILL BE MADE TO STORE ONLY ENOUD DO THE JOB. ALL MATERIALS STORED ONSITE WILL BE STORED MANNER IN THEIR APPROPRIATE CONTAINERS AND ROOF OR OTHER ENCLOSURE. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL COMMANUFACTURER'S LABEL. SUBSTANCES WILL NOT BE MIXED WITH ONE AND BY THE MANUFACTURER. WHENEVER POSSIBLE, ALL OF A PRODUCT WILL IN DISPOSING OF THE CONTAINER. MANUFACTURER'S RECOMMENDATIONS FOR PROPE BE FOLLOWED. HAZARDOUS PRODUCTS THESE PRACTICES ARE USED TO REDUCE THE RISKS AS MATERIALS. PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINED RESEALABLE. ORIGINAL LABELS AND MATERIAL SAFETY DATA WI CONTAIN IMPORTANT PRODUCT INFORMATION.
EMENT THE EROSION AND NT AND EROSION CONTROL LITY TO ENSURE THESE AND FUNCTIONING PROPERLY LEAVING THE PROJECT SITE. NTROL PLAN AND ADD TO ENSURE THE SITE MEETS EDIMENT CONTROL PLAN AND HDITY REQUIREMENTS IMPOSED NCIES.	SPILL CONTROL PRACTICES IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND	IF SURPLUS PRODUCT MUST BE DISPOSED OF M AND STATE RECOMMENDED METHODS FOR PROPE FOLLOWED. PRODUCT SPECIFIC PRACTICES THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL PETROLEUM PRODUCTS ALL ONSITE VEHICLES WILL BE MONITORED FOR REGULAR PREVENTATIVE MAINTENANCE TO REDU LEAKAGE. PETROLEUM PRODUCTS WILL BE STOF CONTAINERS WHICH ARE CLEARLY LABELED. AN' USED ONSITE WILL BE APPLIED ACCORDING TO RECOMMENDATIONS. FERTILIZERS FERTILIZERS USED WILL BE APPLIED ONLY IN T
RS CAN BE USED BELOW L EROSION WITH THE FOLLOWING D THE BARRIER IS 33 PERCENT. WHERE THE MAXIMUM CONTRIBUTING 2.0 ACRES. BARRIER MAY BE USED BELOW L EROSION WHERE ENOUGH RESIDUE	CLEANUP: MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED ON SITE AND SITE PERSONNEL WILL BE MADE AWARE OF THE METHODS AND POSTED LOCATION. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE, BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, LIQUID ABSORBENT (I.e. KITTY	RECOMMENDED BY THE MANUFACTURER. ONCE BE WORKED INTO THE SOIL TO LIMIT EXPOSURI STORAGE WILL BE IN A COVERED AREA. THE C PARTIALLY USED BAGS OF FERTILIZER WILL BE SEALABLE PLASTIC BIN TO AVOID SPILLS. PAINTS ALL CONTAINERS WILL BE TIGHTLY SEALED AND S REQUIRED FOR USE. EXCESS PAINT WILL NOT BE
USED WHERE SEDIMENT—FREE STORM FROM THE GRADED AREAS ONTO E APPLIES ONLY IN THOSE SITUATIONS ON UNDISTURBED SOIL AND THE AREA ER SHOULD NOT BE ALLOWED TO AL SHALL BE STOCKPILED IN SUCH A	LITTER OR EQUAL), SAND SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY. THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.	STORM SEWER SYSTEM BUT WILL BE PROPERLY I TO MANUFACTURERS' INSTRUCTIONS OR STATE AN CONCRETE TRUCKS CONCRETE TRUCKS WILL NOT BE ALLOWED TO WA DISCHARGE SURPLUS CONCRETE OR DRUM WASH PONDS OR OTHER WATERWAYS. WASHWATER SHAL A TEMPORARY SETTLING POND.
THE PROJECT SITE INTO ANY LECTION FACILITY. OF OPEN, ERODIBLE SOIL EXPOSED BY ON AND FILLING OPERATIONS SHALL NOT E WAIVED BY THE OWNER WITH A BY THE CONTRACTOR. THE DETAILED N OF CONSTRUCTION MEAND AND PRACTICES WHICH DEMONSTRATES THAT TICANTLY AFFECT OFF-SITE DEPOSIT OF TRUCTION OPERATIONS AND THAT ARE ESSED AND RECEIVE FINAL GRASSING WITH A QUICK GROWING GRASS. R DURING THE SEASON IN WHICH IT IS THE PERMANENT GRASSING.	SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED IMMEDIATELY TO THE OWNER. THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED. THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE/SHE WILL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL, WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP, THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IF APPLICABLE, IN THE OFFICE TRAILER ONSITE.	OTHER CONTROLS WASTE DISPOSAL WASTE MATERIALS ALL WASTE MATERIALS EXCEPT LAND CLEARING DE STORED IN A METAL DUMPSTER. THE DUMPSTER W SOLID WASTE MANAGEMENT REGULATIONS. THE DUI NEEDED AND THE TRASH WILL BE HAULED TO A S PERSONNEL WILL BE INSTRUCTED REGARDING THE WASTE DISPOSAL. NOTICES STATING THESE PRACTION CONSTRUCTION SITE BY THE CONSTRUCTION SUPE WHO MANAGES THE DAY-TO-DAY SITE OPERATIONS SEEING THAT THESE PROCEDURES ARE FOLLOWED. HAZARDOUS WASTE ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSE ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSE
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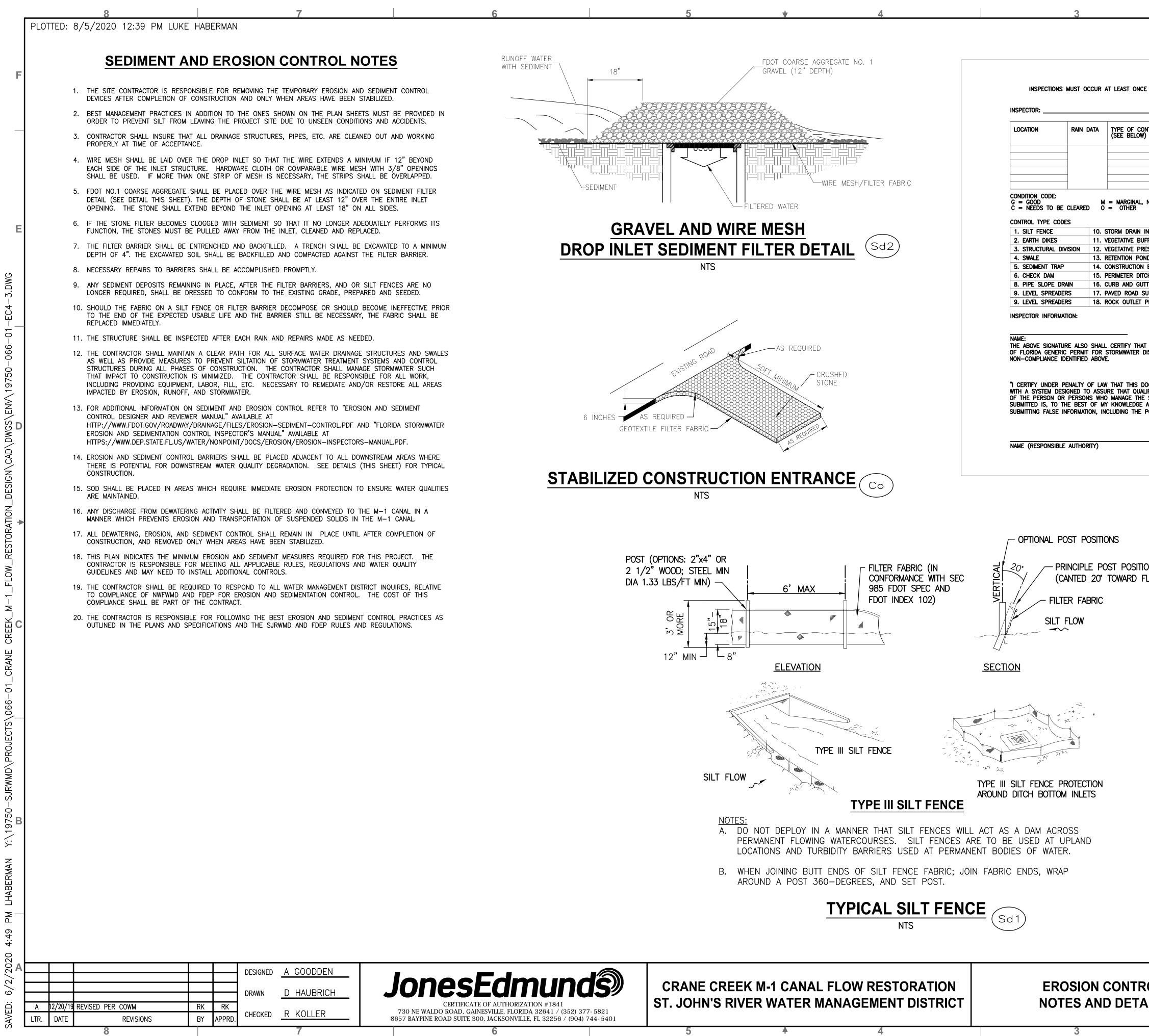
CRANE CREEK M-1 CANAL FLOW RESTORATION ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT

STORMWATER POLLUTION NOTES

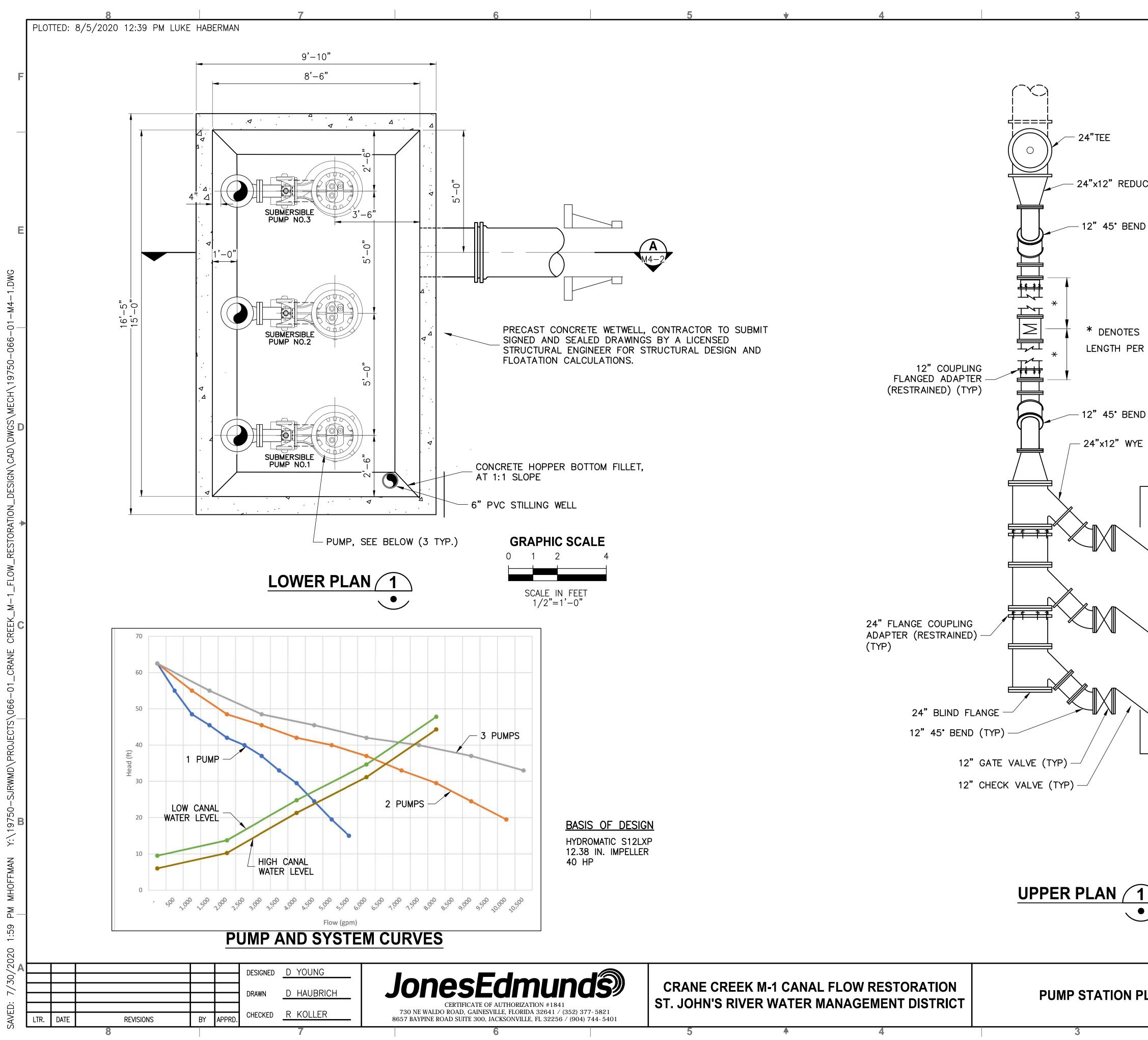
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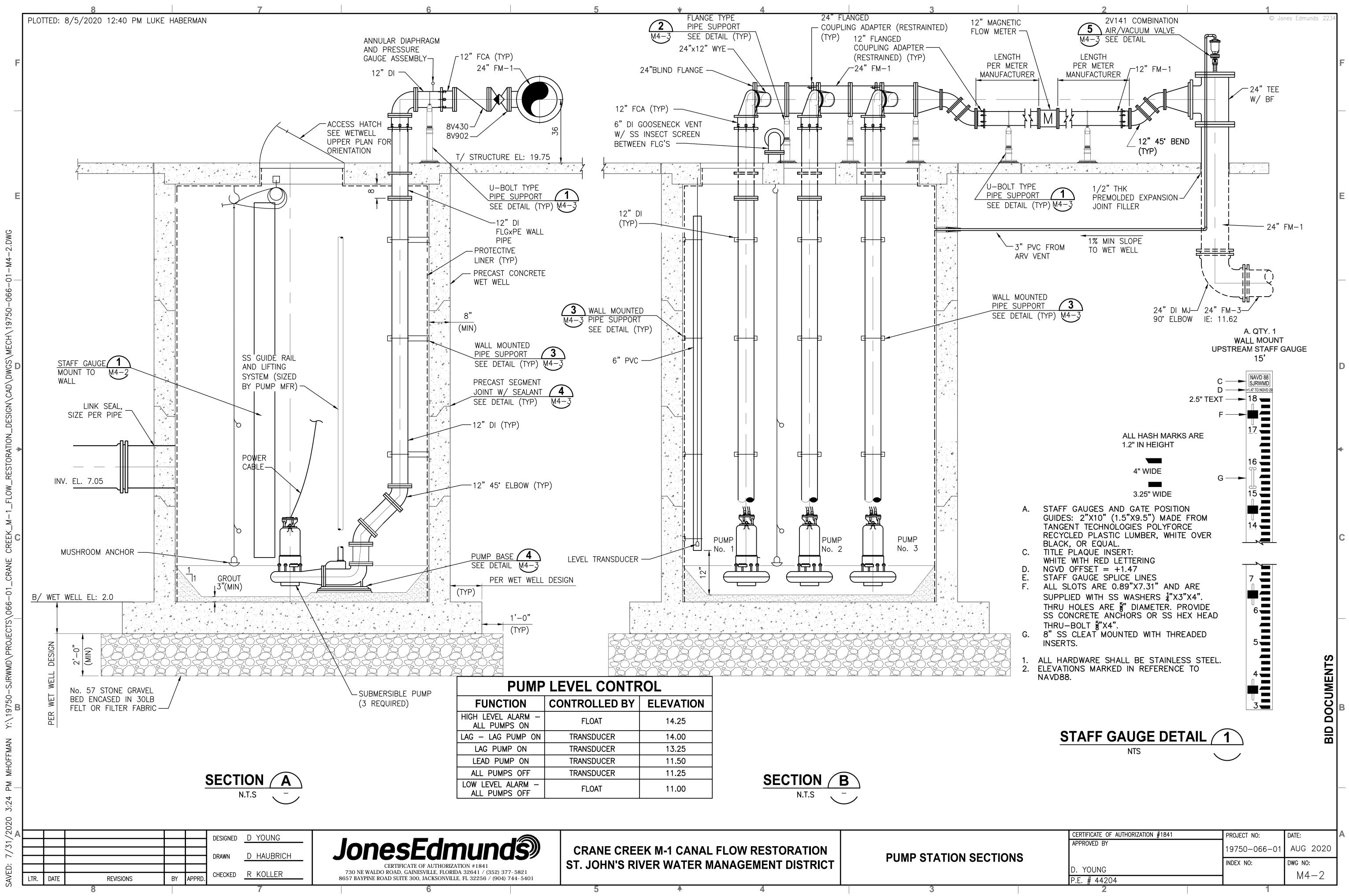
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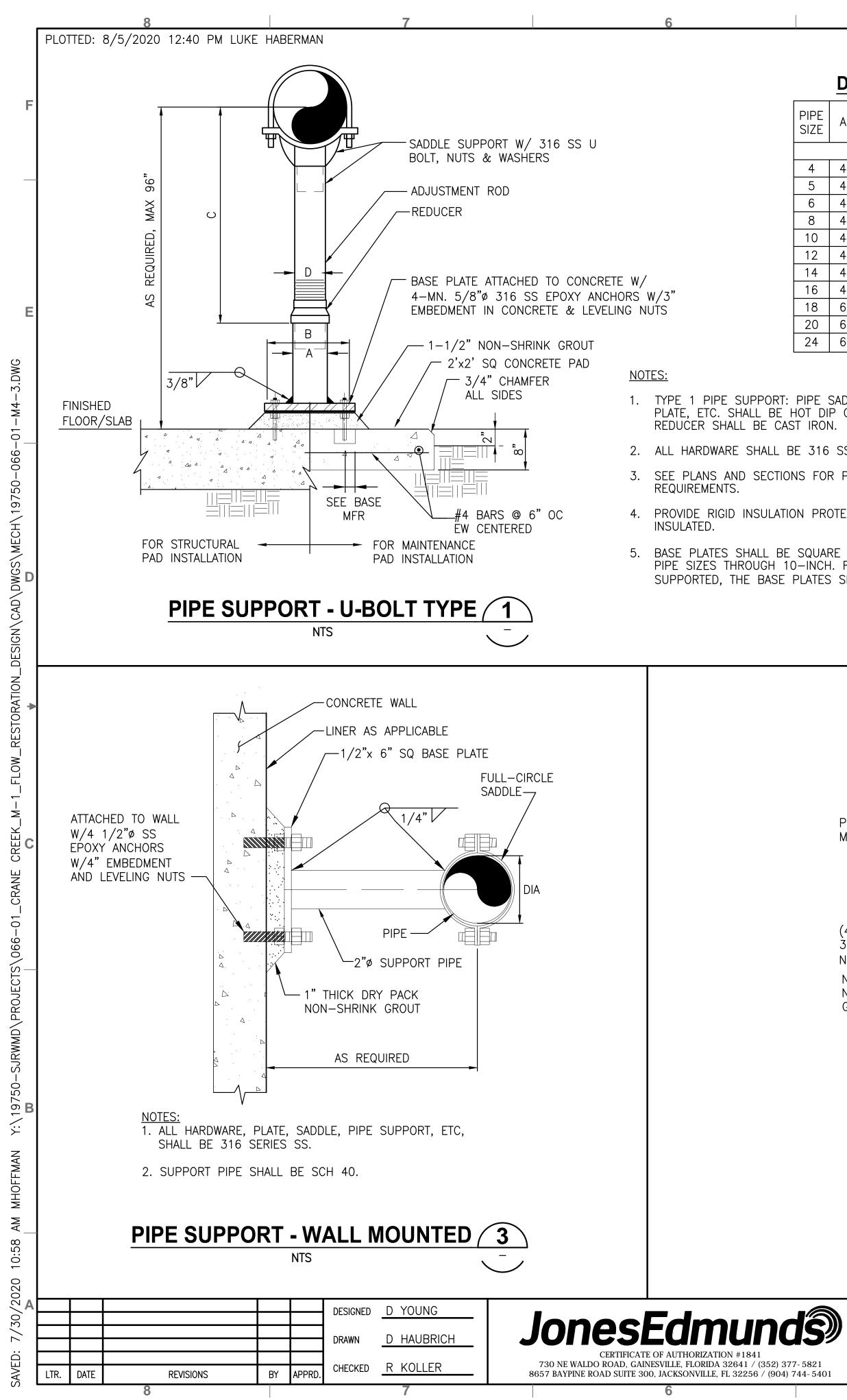


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E A WEEK	AND WITHIN 24	HOURS	GOF THE END OF A S	FORM EVENT 1	THAT IS 0.50 INCHES OR GR	EATER		
			FDEP NPDES ST	ORMWATER IDI	ENTIFICATION NUMBER:			
NTROL	DATE INSTALLED MODIFIED)/	CURRENT CONDITION (SEE BELOW)	CORRECTIVE	ACTION / OTHER REMARKS		-	
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- 12" 90" BEND (TYP)	SCALE IN FEET 1"=3'	BID DOCUMENTS
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PIPE	•		(C	
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		INC	CHES		
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6	4	9	10 1/2	15 1/4	3
8	4	9	11 3/4	16 1/2	3
10	4	9	13 1/2	18 1/4	3
12	4	9	15	19 3/4	3
14	4	11	16 1/4	20 3/4	3
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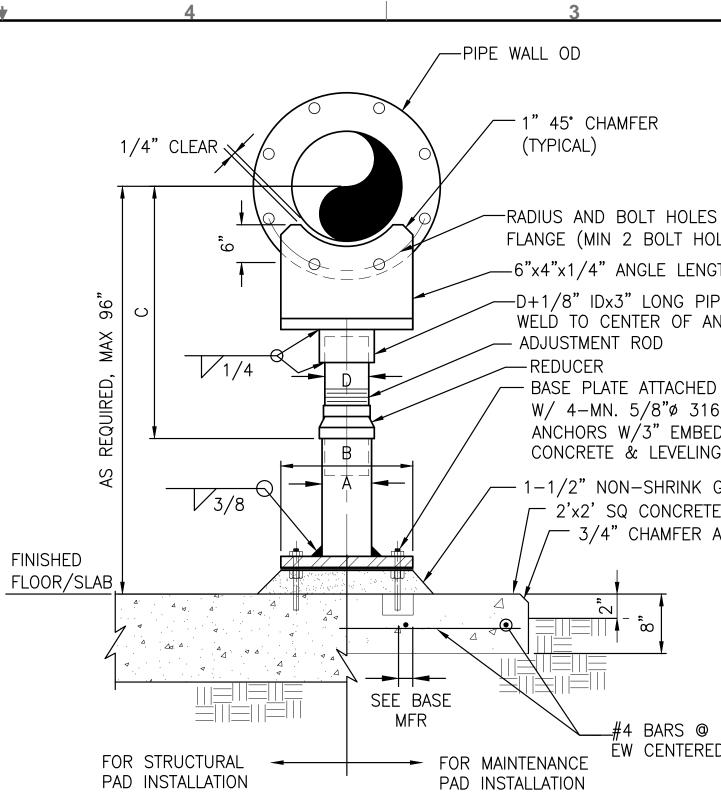
1. TYPE 1 PIPE SUPPORT: PIPE SADDLE, ADJUSTMENT ROD, BASE PLATE, ETC. SHALL BE HOT DIP GALVANIZED CARBON STEEL. REDUCER SHALL BE CAST IRON.

2. ALL HARDWARE SHALL BE 316 SS.

3. SEE PLANS AND SECTIONS FOR PIPE CENTERLINE ELEVATION

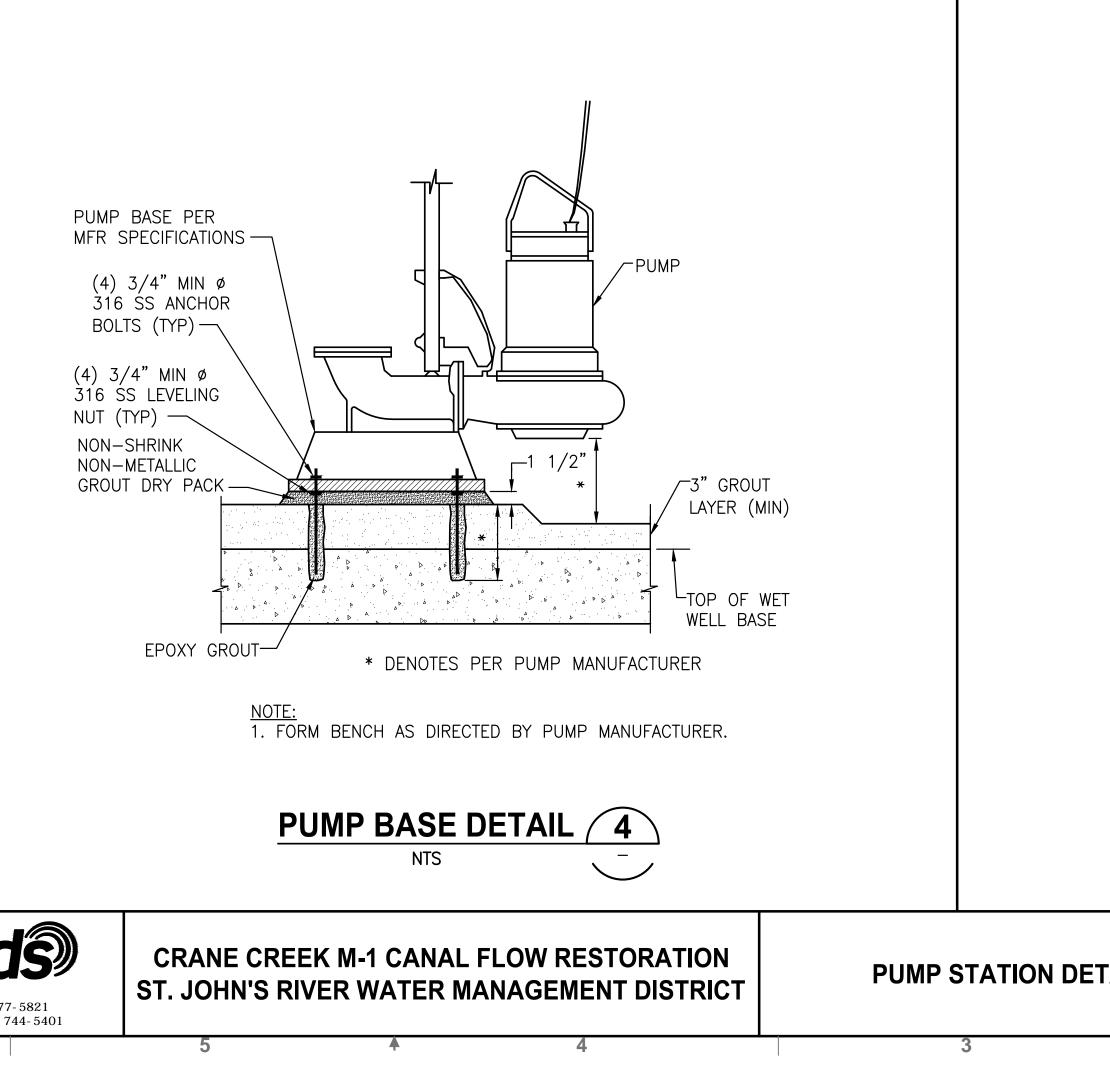
4. PROVIDE RIGID INSULATION PROTECTION SHIELD WHERE PIPING IS

5. BASE PLATES SHALL BE SQUARE AND BE 3/8-INCH THICK FOR PIPE SIZES THROUGH 10-INCH. FOR ALL LARGER PIPES BEING SUPPORTED, THE BASE PLATES SHALL BE 1/2-INCH THICK.

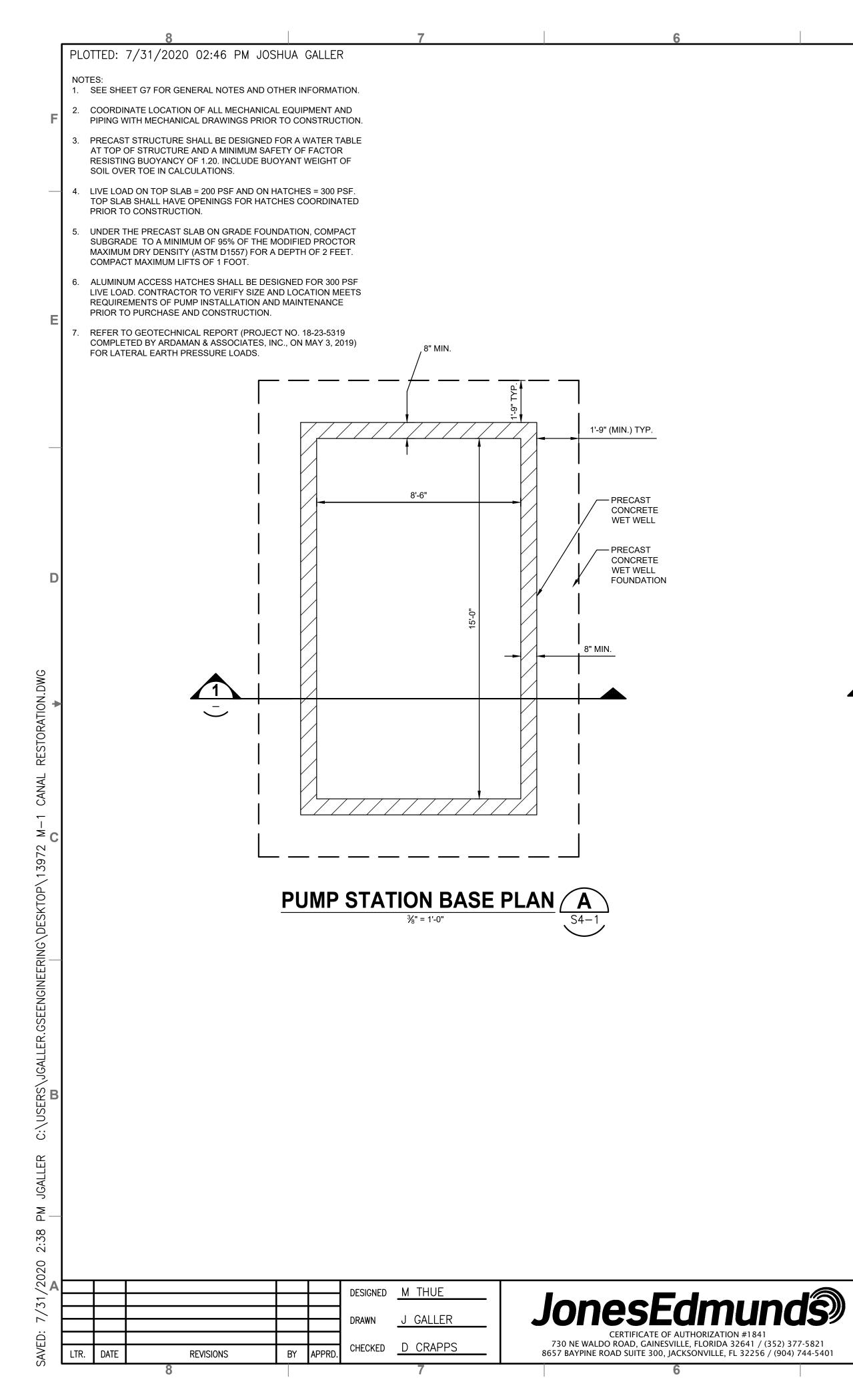


FLANGE TYPE PIPE SUPPORT DETAIL

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GROUT E PAD ALL SIDES	<u>NOTES:</u> 1. TYPE 1 PIPE S PLATE, ETC. SHALL BE CAS	SUPPORT: PLATE, PIPE SA HALL BE HOT DIP GALVAN	ADDLE, ADJUSTMENT ROD, BAS	SE ER
		ANIZE ENTIRE PIPE SUPPO TION (EXCEPT FOR STAIN	ORT AND STEEL BASE PLATE ILESS STEEL FASTENING	_
	4. SEE PLANS AN	SHALL BE 316 SS. D SECTIONS FOR PIPE C	ENTERLINE ELEVATION	
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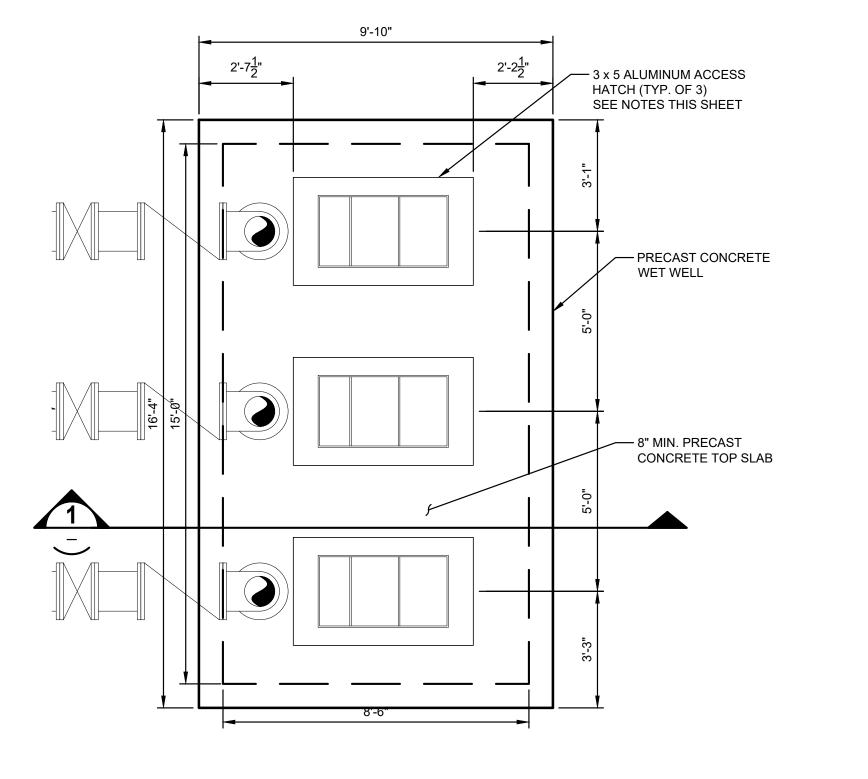




CRANE CREEK M-1 CANAL FLOW RESTORATION ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT

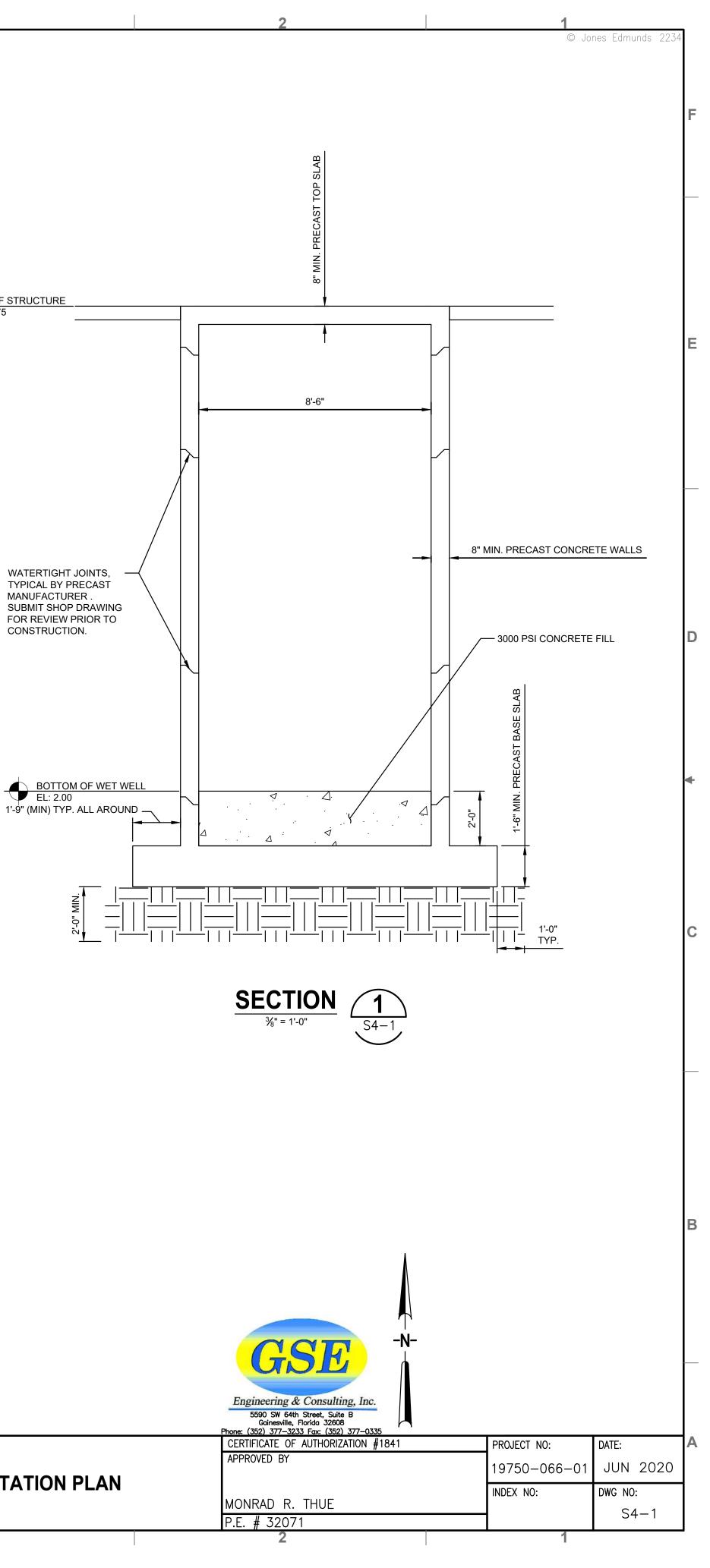
PUMP STATION PLAN

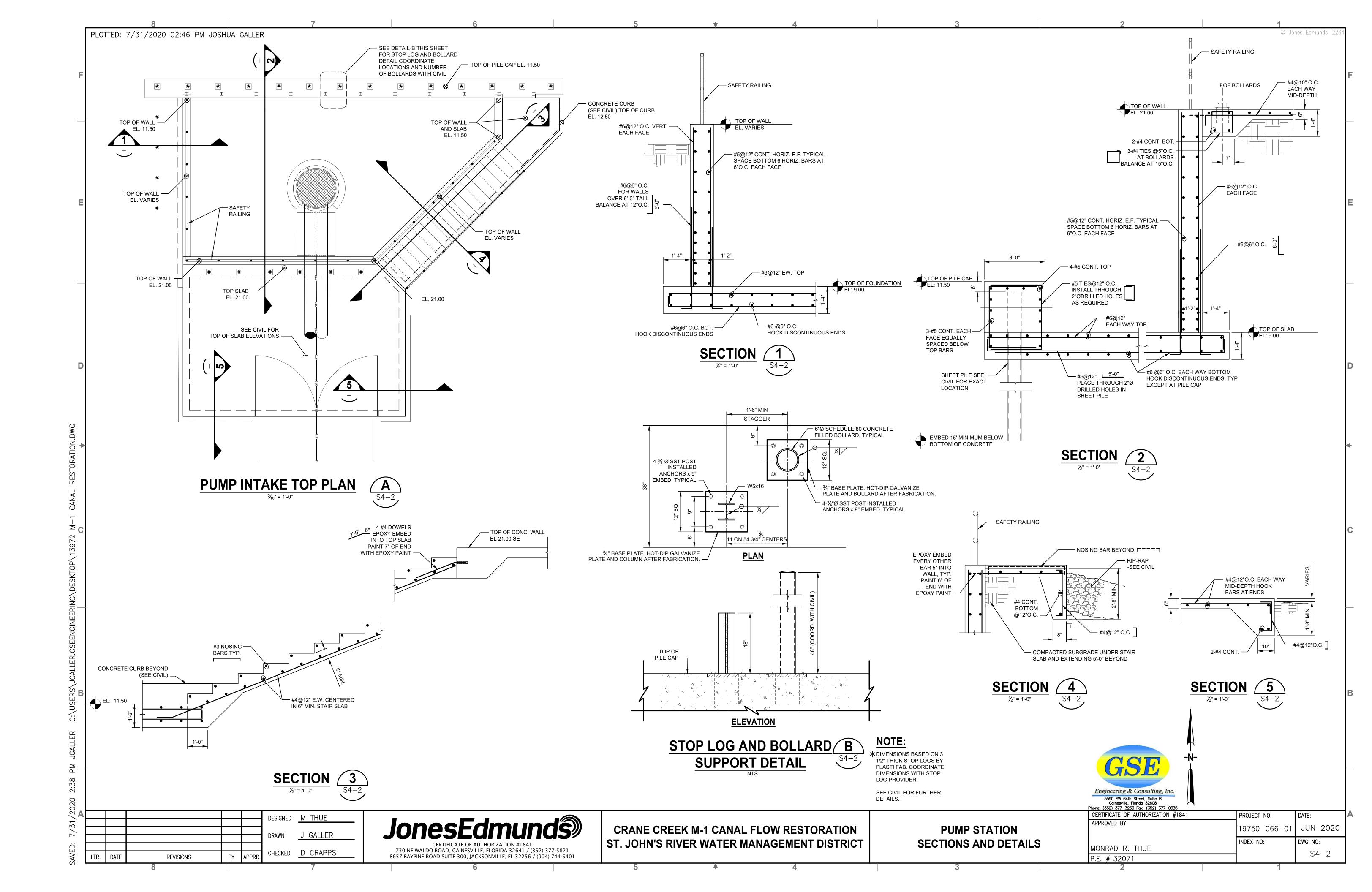


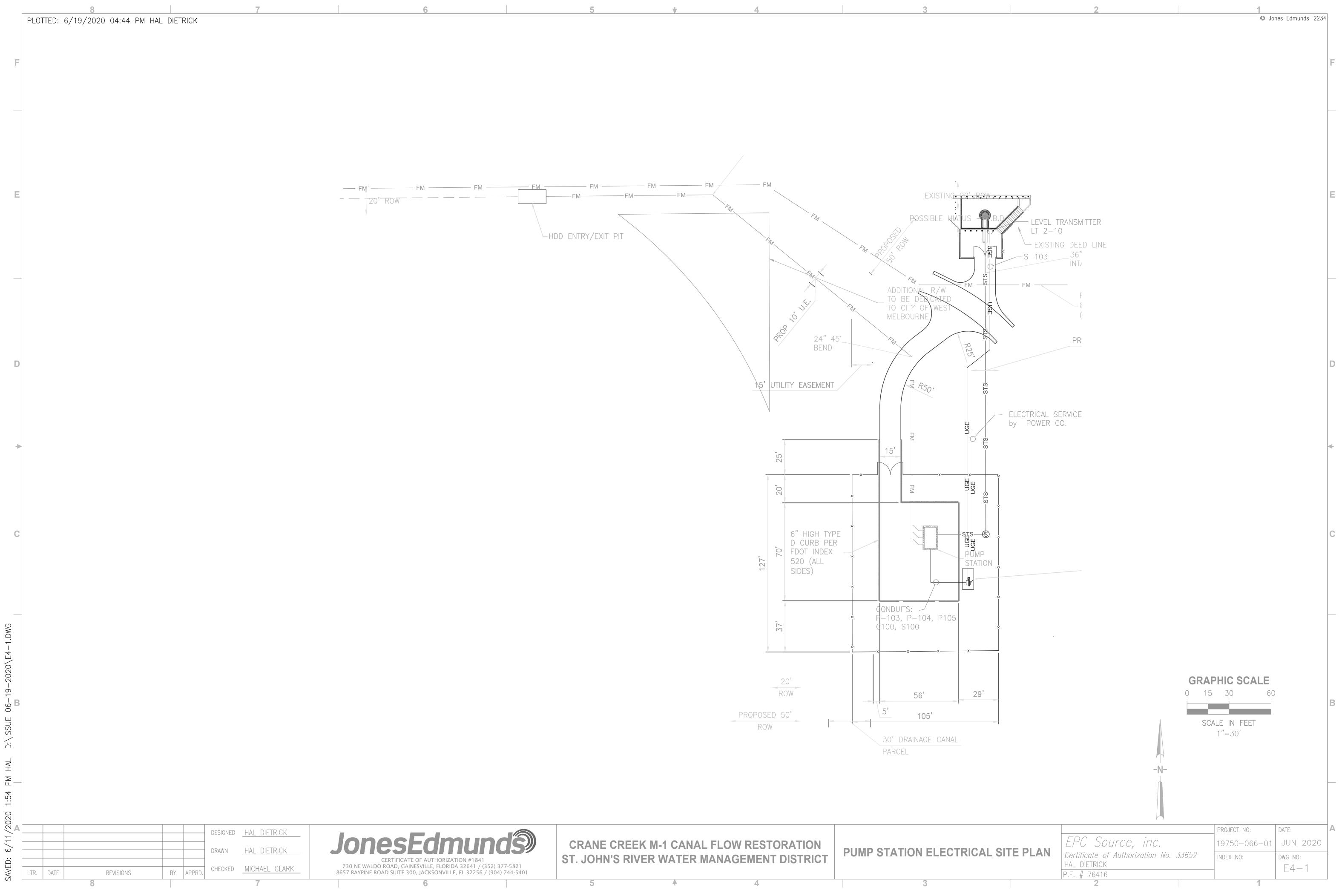


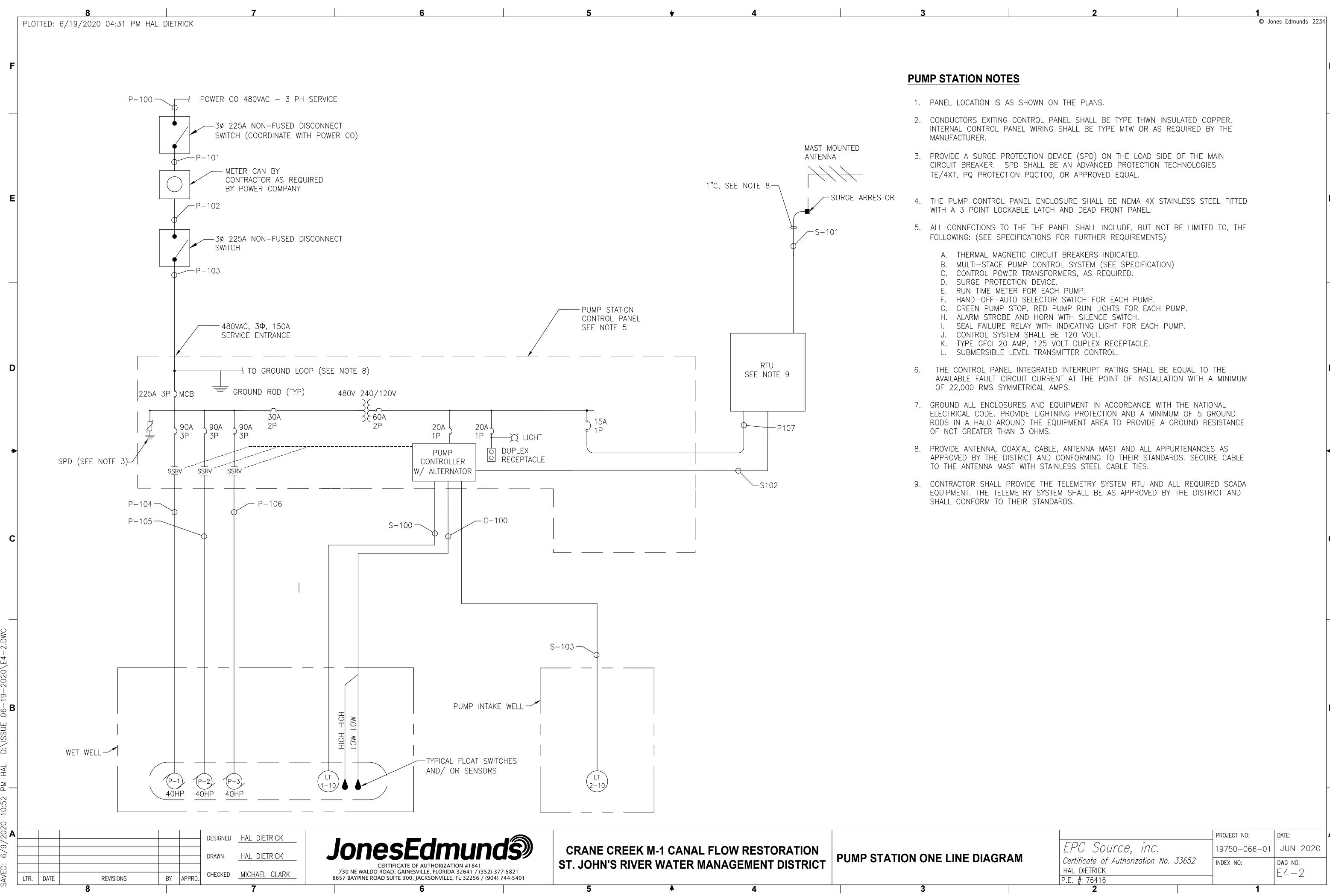
WATERTIGHT JOINTS, TYPICAL BY PRECAST MANUFACTURER . SUBMIT SHOP DRAWING FOR REVIEW PRIOR TO CONSTRUCTION.

EL:19.75

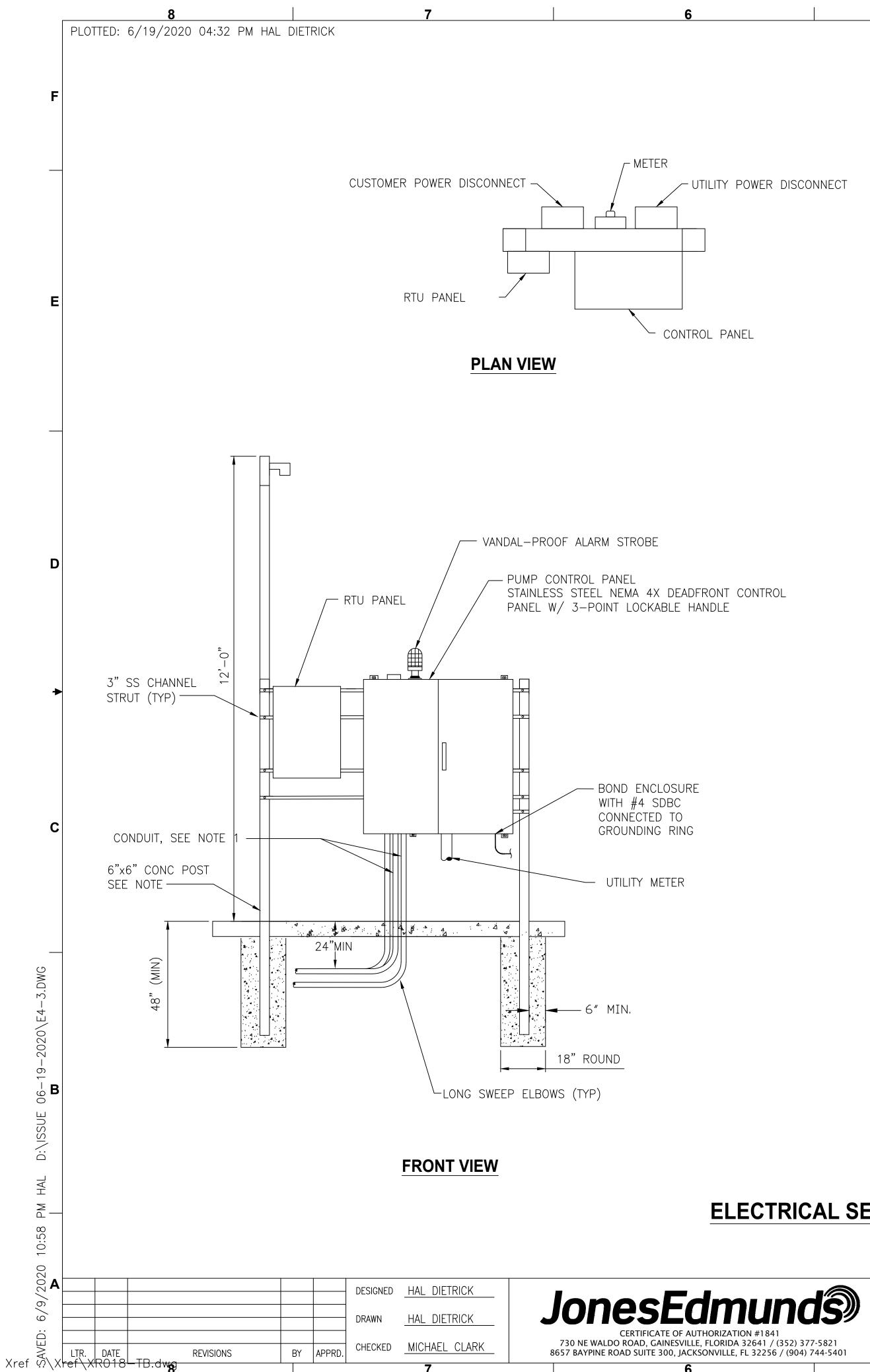




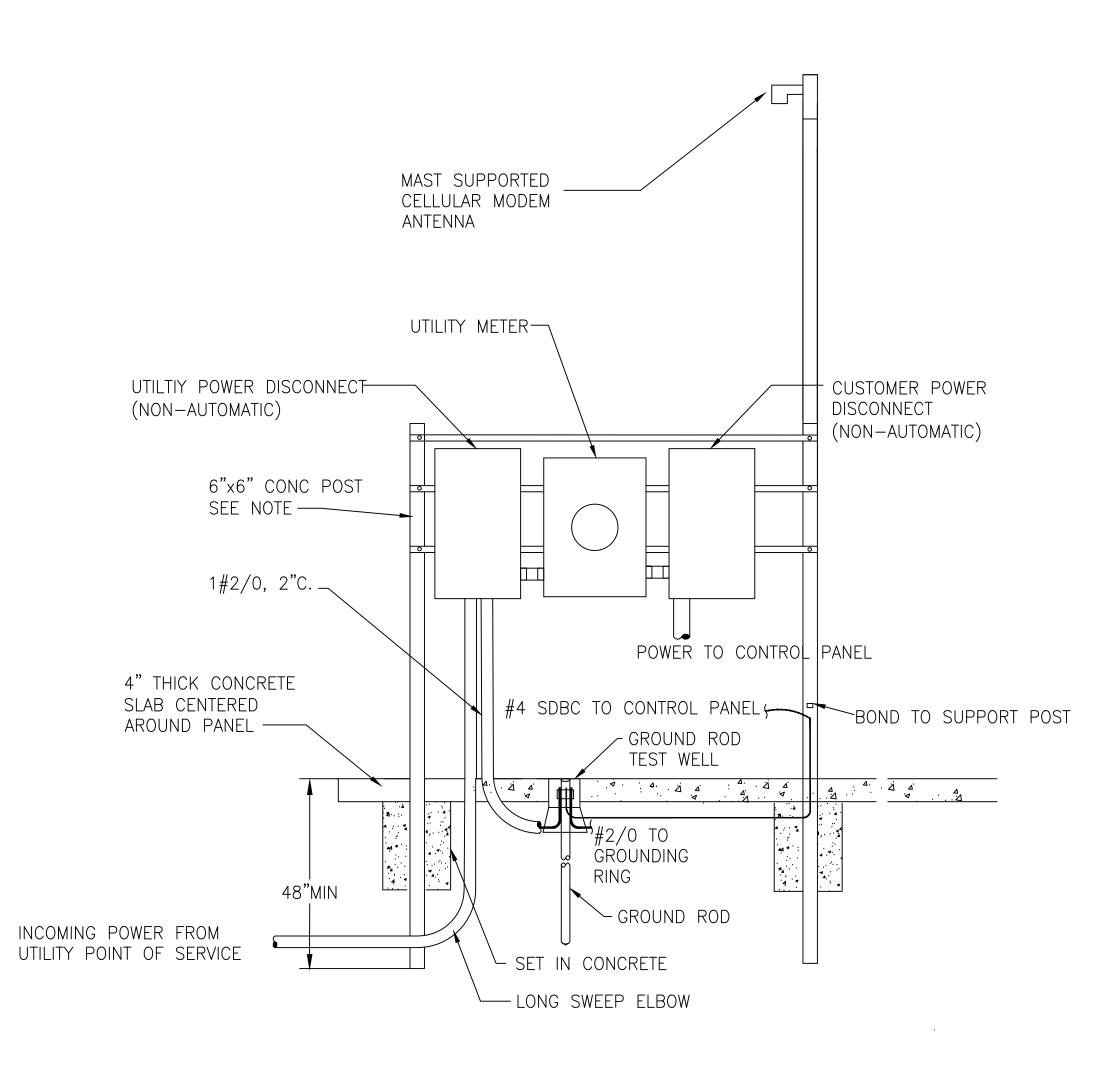




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- OTHER UNDERGROUND CONDUITS SHALL BE SCHEDULE 80 PVC.
- TRANSFER SWITCH, AND ANTENNA MANUAL DISCONNECT SWITCH, AND METAL FENCE.
- 4. ALL MOUNTING HARDWARE & BRACKETS SHALL BE 316 STAINLESS STEEL.
- 5. COAT PORTIONS OF ALUMINUM IN CONTACT WITH CONCRETE WITH COAL TAR EPOXY.



REAR VIEW

ELECTRICAL SERVICE AND CONTROL PANEL DETAIL 1 E-2 NTS

5

CRANE CREEK M-1 CANAL FLOW RESTORATION ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT

PUMP STATION ELECTRICAL DETAILS

1. PUMP MOTOR CONDUIT SHALL BE SIZED TO MAX 40% CONDUIT FILL. MINIMUM CONDUIT SIZE SHALL BE 2 1/2". ABOVE GROUND CONDUITS SHALL BE PVC COATED RIGID GALVANIZED STEEL DOWN TO BELOW THE FIRST ELBOW BELOW GRADE. UNDERGROUND CONDUITS BETWEEN THE JUNCTION BOX AND WETWELL SHALL BE SCHEDULE 80 PVC ENCASED WITH A MINIMUM OF 2" OF CONCRETE. REFER TO NEC 501.10(A)(1)(a) AND THE EXCEPTION FOR THE INSTALLATION OF THESE CONDUITS. ANALOG SIGNAL CONDUITS SHALL BE PVC COÁTED RIGID GALVANIZED STEEL ABOVE AND BELOW GRADE. ALL

2. INSTALL AN ELECTRICAL GROUNDING SYSTEM IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AS WELL AS LOCAL CODES AND ORDINANCES. INSTALL AN UNDERGROUND PERIMETER CABLE GROUNDING SYSTEM WITH CONNECTIONS TO AT LEAST WET WELL COVER, VALVE VAULT COVER, CONTROL PANELS, GENERATOR, UTILITY COMPANY TRANSFORMER, AUTOMATIC

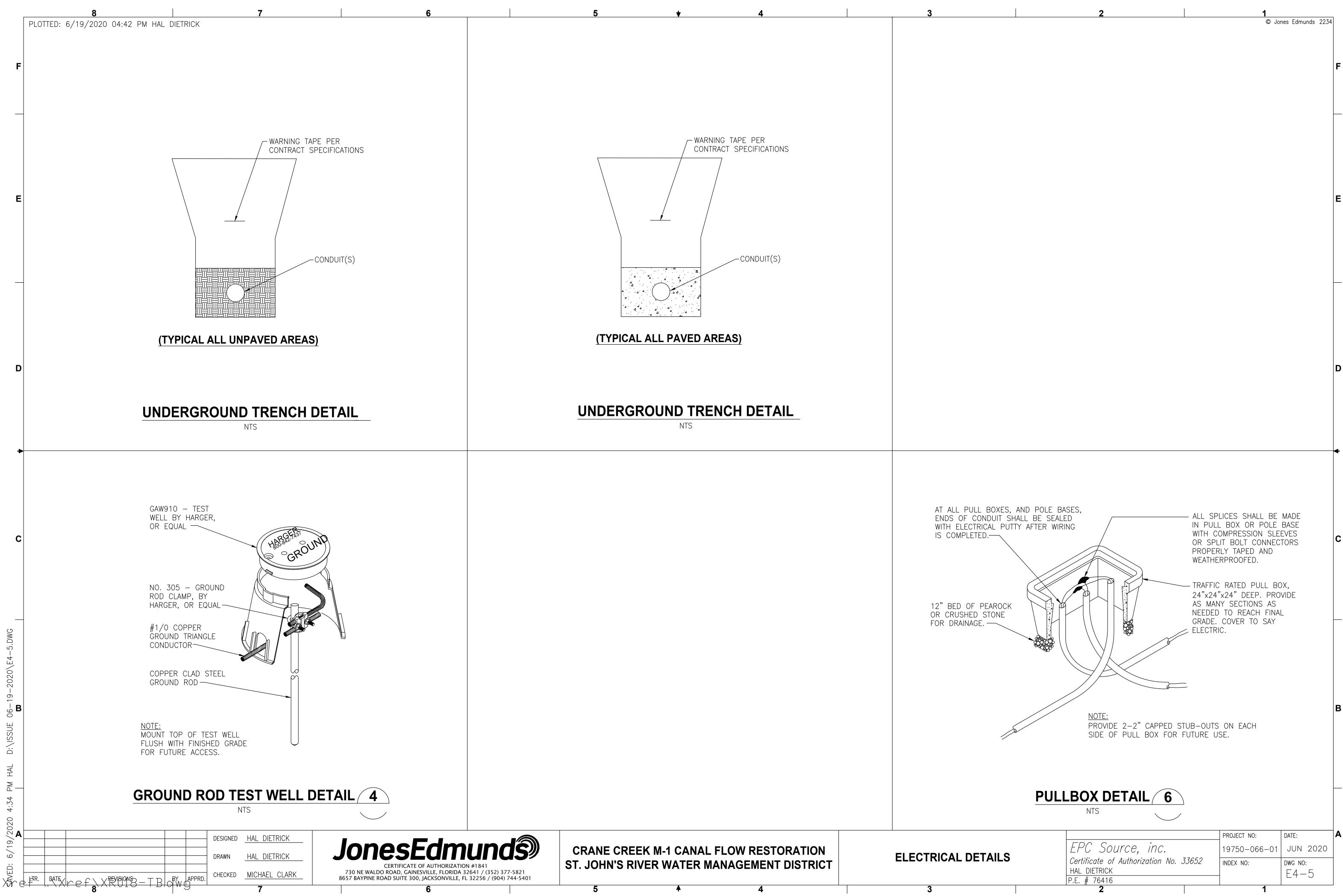
3. THE STATION NAME, PCU I.D. NUMBER, AND ADDRESS SHALL BE AFFIXED TO THE FRONT OF THE METER CABINET.

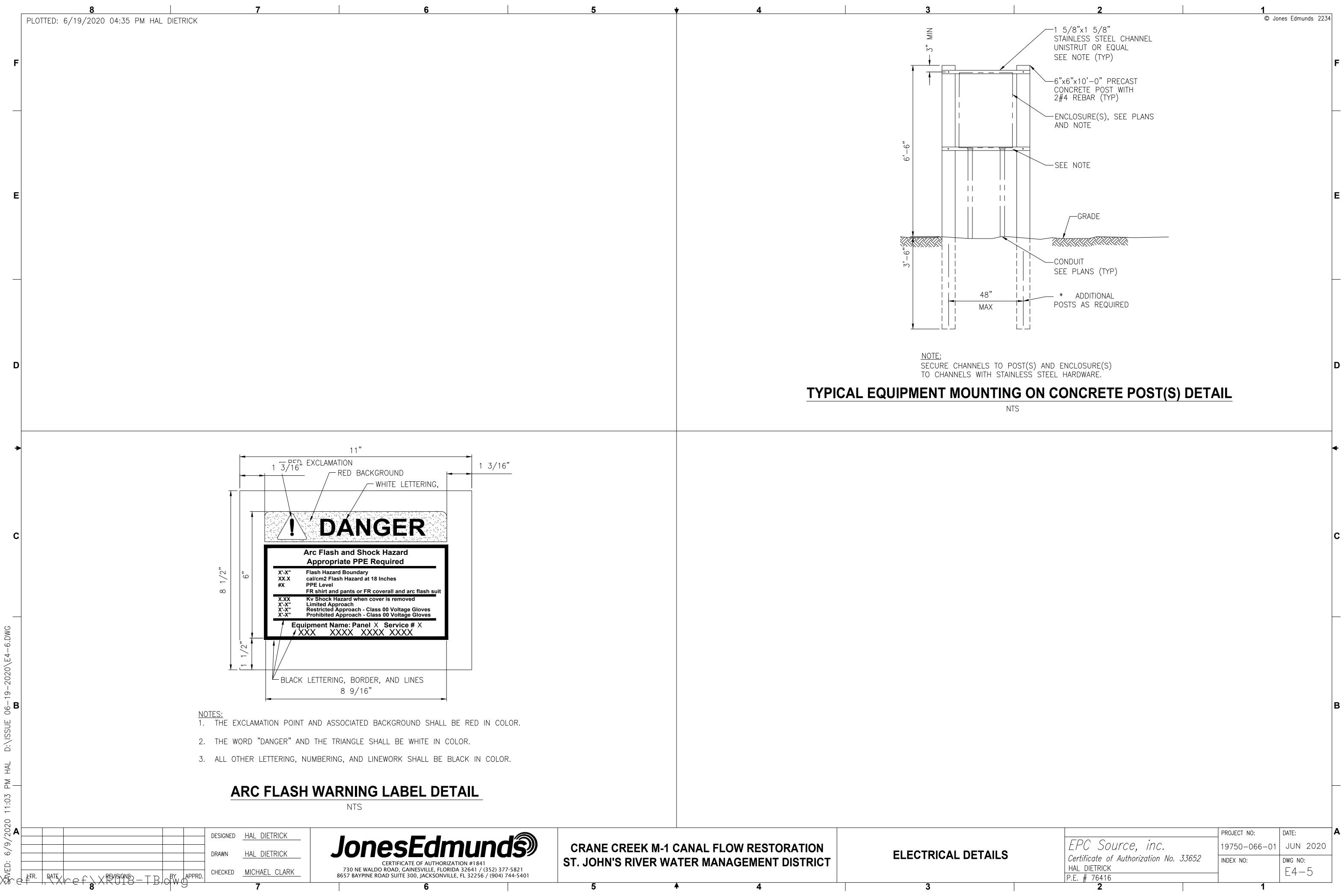
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PROJECT NO: DATE: EPC Source, inc. JUN 2020 19750-066-01 Certificate of Authorization No. 33652 INDEX NO: DWG NO: HAL DIETRICK E4-3 P.E. # 76416

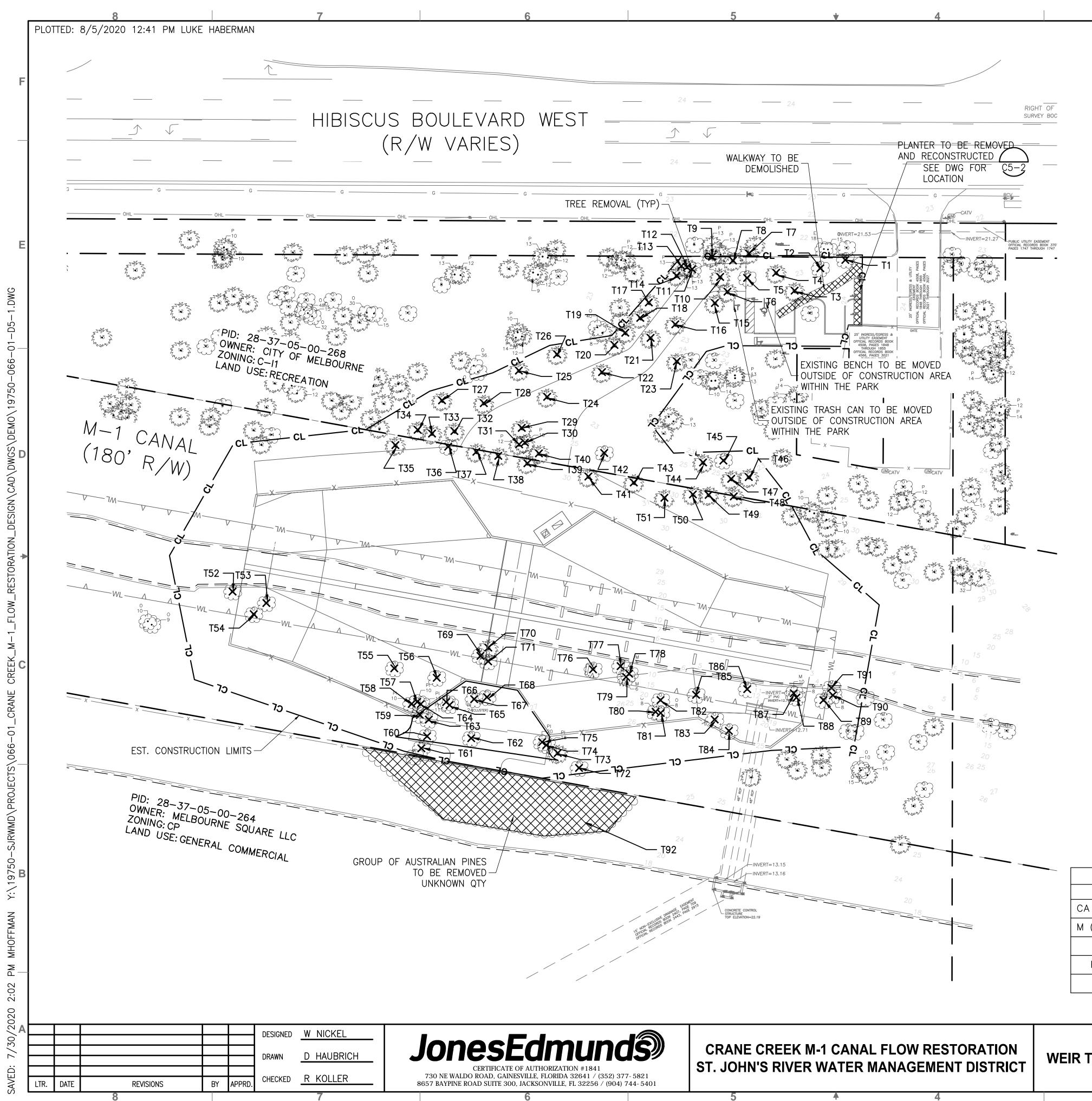
BND FOOD POOD POOD <thp< th=""><th></th><th></th><th></th><th>PO</th><th>WER AND CONTROL WIRI</th><th></th><th></th><th></th><th></th></thp<>				PO	WER AND CONTROL WIRI				
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1 G NUTCOME Exclusion 1 General 1 Her 1 Her <th1 her<="" th=""> <th1 her<="" th=""> 1 Her</th1></th1>	P100	INCOMING SERVICE	SERVICE DISC.	480		_	3"	BY POWER COMPANY	
P10 O.S. Wei KRONE, MUL P40 Function	P101	SERVICE DISC.	METER	480	4-3/0	1-1	3"		
MAR SUMPL [No.] MMP 1 460 1.01 1.0 2 Free Mode and the count of the sector 4.40 sector 4.400 64 MAR SUMPL [No.] P.M.P 2 460 4.401 No.0 2 Free Mode and the count of the sector 4.400 sector 4.400 700 MAR SUMPL [No.] P.M.P 2 4.00 4.00 4.00 7.00<					· · · · · · · · · · · · · · · · · · ·				
Mm								(INCLUDE OTHER CONDUCTERS AS REP MOTOR MRRO?)	
One One of Signal Signal One of Signal Sign									
1200 MKOME SMOCH SKOLE INS 4.40 4.464 1.10 1.10 KOLE INSULE OF UNEL 1213 SKOLE UNDER SMOCH MKOME SKOLE INSULE 4.40 4.4645 1.10 1.1 1223 SKOLE UNDER SKOLE INSULE 4.40 4.4645 1.10 1.1 1224 KALE KUNDER SKOLE INSULE 4.40 4.4645 1.10 1.1 1224 KALE KUNDER SKOLE INSULE 4.40 4.402 4.402 1.10 1.1 1224 KALE KUNDER SKOLE INSULE INSULE 4.40 4.402 4.402 1.10 1.1 1224 KALE KUNDER SKOLE INSULE I									
1.000 1.000 1.000 1.1000 1.1000 1.1000	P107	PUMP CONTROL PANEL	RTU	120	2-12	1-12	1 "		
1000 1.1.10								ROUTE TO UTILITY POLE	
1000000000000000000000000000000000000									
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225 $91 + 20 + 90 + 90 + 100$ $A + 320 + 90 + 20 + 100$ 400 400 400 $1-10$ 1^{11} 225 $91 + 20 + 90 + 100 + 100$ 100 100 $2-10$ $1-12$ 1^{11} 225 $91 + 20 + 90 + 100 + 100$ 100 $2-10$ $1-12$ 1^{11} 100 $100 + 1$									
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Close First First <th< td=""><td>P206</td><td>WEIR CONTROL PANEL</td><td>RTU</td><td>120</td><td>2-12</td><td>1-12</td><td>1"</td><td></td><td></td></th<>	P206	WEIR CONTROL PANEL	RTU	120	2-12	1-12	1"		
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C201WER CONTROL PANELAR COMPRESSOR 21236-121-121"C202WER CONTROL PANELMECIANCAL VALVE PANEL1296-121-121"C203WER CONTROL PANELMECIANCAL VALVE PANEL1206-121-121"C204WER CONTROL PANELLT 1-104/291 / "SP3/4"ANADO SIGNAL LEVELS100PUMP CONTROL PANELLT 1-104/291 / "SP3/4"AS REOD BY MERS101PUMP CONTROL PANELRTU-CPWE3/4"AS REOD BY MERS102PUMP CONTROL PANELRTU-SEE REMARKS3/4"AS REOD BY MERS103PUMP CONTROL PANELIT 2-104/201 / "SP3/4"AS REOD BY MERS104PUMP CONTROL PANELNET 2-104/201 / "SP3/4"AS REOD BY MERS105PUMP CONTROL PANELNET 2-104/201 / "SP3/4"AS REOD BY MERS206WER CONTROL PANELMECHANCAL VALVE PANEL-OFWE3/4"AS REOD BY MERS207PUMP CONTROL PANELMECHANCAL VALVE PANEL-OFWE3/4"AS REOD BY MERS208PUMP CONTROL PANELMECHANCAL VALVE PANEL-OFWE3/4"AS REOD BY MERS201PUMP CONTROL PANELRTU-SEE REMARKS3/4"AS REOD BY MERS202PUMP CONTROL PANELRTU-SEE REMARKS3/4"AMAGO ROM LTS203MECHANICAL VALVE FANELIT-24/20CPWE3/4"<		FUMF CUNIKUL PANEL		120	6-12	I — I Z			
C202WER CONTROL PANELMECHANICAL VALVE PANEL1206-121-121"C203WER CONTROL PANELMECHANICAL VALVE PANEL1206-121-121"CC6-121-121"CCC6-121-121"CCC6-121-121"CCCCCCCCCCCS100PUMP CONTROL PANELLT 1-104/201 / TSPSKS101PUMP CONTROL PANELANTENNA-CFWE3/4"ANALOG SIGNAL LEVELS102PUMP CONTROL PANELRTU-SEE FEMARKS3/4"AS REOD BY MIRS103PUMP CONTROL PANELRTU-SEE FEMARKS3/4"ANALOG SIGNAL LEVELS103PUMP CONTROL PANELRTU-CFWE2/4"ANALOG SIGNAL LEVELS200WER CONTROL PANELMECIANCAL VALVE PANEL-CFWE3/4"AS REOD BY MIRS201PUMP CONTROL PANELANILONAL-CFWE3/4"AS REOD BY MFRS202PUMP CONTROL PANELRTU-SEH HYMARKS3/4"AS REOD BY MFRS203MECHANCAL VALVE FANELIT-14/20CFWE3/4"ANALOG FROM LTS204MECHANCAL VALVE FANELIT-24/20CFWE3/4"ANALOG FROM LTS205MECHANCAL VALVE FANELIT-24/20CFWE3/4"ANALOG FROM LTS204MECHANCAL VALVE FANEL<									
Dist Dist <thdis< th=""> Dist Dist D</thdis<>									
Image: Control panelImage: Control panel									
S101PUMP CONTROL PANELANTENNAIICCFWE3/4"AS REQD BY MFRS102PUMP CONTROL PANELRTUIISEE REMARKS3/4"A REQD BY MFRS103PUMP CONTROL PANELLT 2-10I4/20I1/TSP3/4"ANALOG SIGNAL LEVELS200WEIR CONTROL PANELMECHANICAL VALVE PANELIIIIIIS201PUMP CONTROL PANELMECHANICAL VALVE PANELIICFWE3/4"A REQD BY MFRS202PUMP CONTROL PANELANTENNAIICFWE3/4"A SEQD BY MFRS203MECHANICAL VALVE PANELITI-1I4/20CFWE3/4"A SEQD BY MFRS204MECHANICAL VALVE PANELITI-1I4/20CFWE3/4"A NALOG FROM LTS205MECHANICAL VALVE PANELITI-2I4/20CFWE3/4"ANALOG FROM LTS205MECHANICAL VALVE PANELLT 2-10I4/20CFWE3/4"ANALOG FROM LTS205MECHANICAL VALVE PANELLT 2-10I4/20CFWE3/4"ANALOG FROM LT						· · ⁄ ∠			
S102PUMP CONTROL PANELRTU-SEE REMARKS3/4"AS REOD BY MFRS103PUMP CONTROL PANELLT 2-104/201 / TSP3/4"ANALOG SIGNAL LEVELCCCCCCCS200WEIR CONTROL PANELMECHANICAL VALVE PANELCCCS201PUMP CONTROL PANELMECHANICAL VALVE PANELCCCS202PUMP CONTROL PANELANTENNA-CSEE REMARKS3/4"S203MECHANICAL VALVE PANELIT-14/20CFWE3/4"ANALOG FROM LTS204MECHANICAL VALVE PANELIT-24/20CFWE3/4"ANALOG FROM LTS205MECHANICAL VALVE PANELLT 2-104/20CFWE3/4"ANALOG FROM LT	S100	PUMP CONTROL PANEL	LT 1-10	4/20	1 / TSP				
S103PUMP CONTROL PANELLT 2-104/204/201 / TSP3/4"ANALGG SIGNAL LEVELCCCCCCCCS200WEIR CONTROL PANELMECHANICAL VALVE PANELCCCCCS201PUMP CONTROL PANELANTENNAC-CFWE3/4"A S REQD BY MFRS202PUMP CONTROL PANELRTU-CFWE3/4"A S REQD BY MFRS203MECHANICAL VALVE PANELIT-14/20CFWE3/4"ANALOG FROM LTS204MECHANICAL VALVE PANELIT-24/20CFWE3/4"ANALGG FROM LTS205MECHANICAL VALVE PANELLT 2-104/20CFWE3/4"ANALOG FROM LT									
S201PUMP CONTROL PANELANTENNA-CFWE3/4"AS REQD BY MFRS202PUMP CONTROL PANELRTU-SEE REMARKS3/4"AS REQD BY MFRS203MECHANICAL VALVE PANELIT-14/20CFWE3/4"ANALOG FROM LTS204MECHANICAL VALVE PANELIT-24/20CFWE3/4"ANALOG FROM LTS205MECHANICAL VALVE PANELLT 2-104/20CFWE3/4"ANALOG FROM LT									
S202PUMP CONTROL PANELRTU-RTU-SEE REMARKS3/4"AS REQD BY MFRS203MECHANICAL VALVE PANELIT-14/204/203/4"ANALOG FROM LTS204MECHANICAL VALVE PANELIT-24/204/203/4"ANALOG FROM LTS205MECHANICAL VALVE PANELLT 2-104/20CFWE3/4"ANALOG FROM LT	S200	WEIR CONTROL PANEL	MECHANICAL VALVE PANEL						
S203MECHANICAL VALVE PANELIT-14/20CFWE3/4"ANALOG FROM LTS204MECHANICAL VALVE PANELIT-24/20CFWE3/4"ANALOG FROM LTS205MECHANICAL VALVE PANELLT 2-104/20CFWE3/4"ANALOG FROM LT							,		
S204MECHANICAL VALVE PANELIT-24/20CFWE3/4"ANALOG FROM LTS205MECHANICAL VALVE PANELLT 2-104/20CFWE3/4"ANALOG FROM LT							,		
S205 MECHANICAL VALVE PANEL LT 2-10 4/20 S205							,		
				,			, ,		
S206 MECHANICAL VALVE PANEL LI 2-11 4/20 CFWE	S206	MECHANICAL VALVE PANEL	LT 2-11	4/20	CFWE		3/4" ANALOG FRO		







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		PROJECT NO:	DATE:	A
EPC Source, inc.		19750-066-01	JUN 2020	
Certificate of Authorization No. 3.	3652	INDEX NO:	DWG NO:	
HAL DIETRICK			F4 - 5	
P.E. # 76416			LT J	
		4		



	TR	EE REMOVA	L DATA		TREE REM	OVAL DATA	wones Lant
0.	SPECIES	DBH (IN)	JURISDICTION	NO.	SPECIES	DBH (IN)	JURISDICT
1	0	15	MELBOURNE				
2	0	13	MELBOURNE	T52	M	12	BREVARD
3	Р	12	MELBOURNE	T53	M	15	BREVARD
4	P	14	MELBOURNE	T54	0	12	BREVARD
5	СА	12	MELBOURNE	T55	PI	28	BREVARD
6	Р	12	MELBOURNE	T56	PI	10	BREVARD
7	Р	12	MELBOURNE	T57	PI	10	BREVARD
8	 P	14	MELBOURNE	T58	PI	10	BREVARD
9	 P	13	MELBOURNE	T59	PI	11	BREVARD
0	 P	13	MELBOURNE	Т60	PI	6	BREVARD
11	0	13	MELBOURNE	T61	PI	10	BREVARD
2	0	13	MELBOURNE	T62	PI	28	BREVARD
	Р			Т63	PI	9	BREVARD
3		13	MELBOURNE	T64	PI	13	BREVARD
4	P	13	MELBOURNE	T65	PI	24	BREVARD
5	P	13	MELBOURNE			(CLUSTER)	
6	P	13	MELBOURNE	T66	PI	11	BREVARD
7	P	12	MELBOURNE	T67	PI	13	BREVARD
8	Р	12	MELBOURNE	Т68	PI	13	BREVARD
9	Р	12	MELBOURNE	T69	М	10	BREVARD
20	Р	10	MELBOURNE	T70	P	13	BREVARD
21	Р	12	MELBOURNE	T71	PI	12	BREVARD
22	Р	15	MELBOURNE	T72	PI	15	BREVARD
23	Р	13	MELBOURNE	Т73	P	12	BREVARD
24	Р	12	MELBOURNE	T74	PI	18	BREVARD
25	Р	12	MELBOURNE	T75	PI	20	BREVARD
26	Р	12	MELBOURNE	T76	М	10	BREVARD
27	P	12	MELBOURNE	T77	М	6	BREVARD
28	P	14	MELBOURNE	T78	М	6	BREVARD
29	P	10	MELBOURNE	T79	М	6	BREVARD
30	Р	10	MELBOURNE	T80	0	8	BREVARD
31	 P	12	MELBOURNE	T81	0	8	BREVARD
32	 P	12	MELBOURNE	T82	0	8	BREVARD
33	 P		MELBOURNE	T83	0	10	BREVARD
34	 P	8	MELBOURNE	T84	0	6	BREVARD
35	P	12	BREVARD	T85	М	6	BREVARD
	F	12		Т86	М	8	BREVARD
36 37	0	18	BREVARD	T87	M	10	BREVARD
			BREVARD	T88	M	8	BREVARD
38	P	10	BREVARD	Т89	M	8	BREVARD
39	P	10	BREVARD	Т90	M	8	BREVARD
10	P	10	MELBOURNE	T91	M	9	BREVARD
41	P	10	BREVARD			_	
12	0	42	MELBOURNE				
13	Р	12	BREVARD				
14	Р	13	MELBOURNE				
15	СА	6	MELBOURNE				
16	Р	13	MELBOURNE				
17	Р	13	MELBOURNE				
18	Р	10	BREVARD				
19	Р	15	BREVARD				
50	P	10	BREVARD				
	P	13	BREVARD				

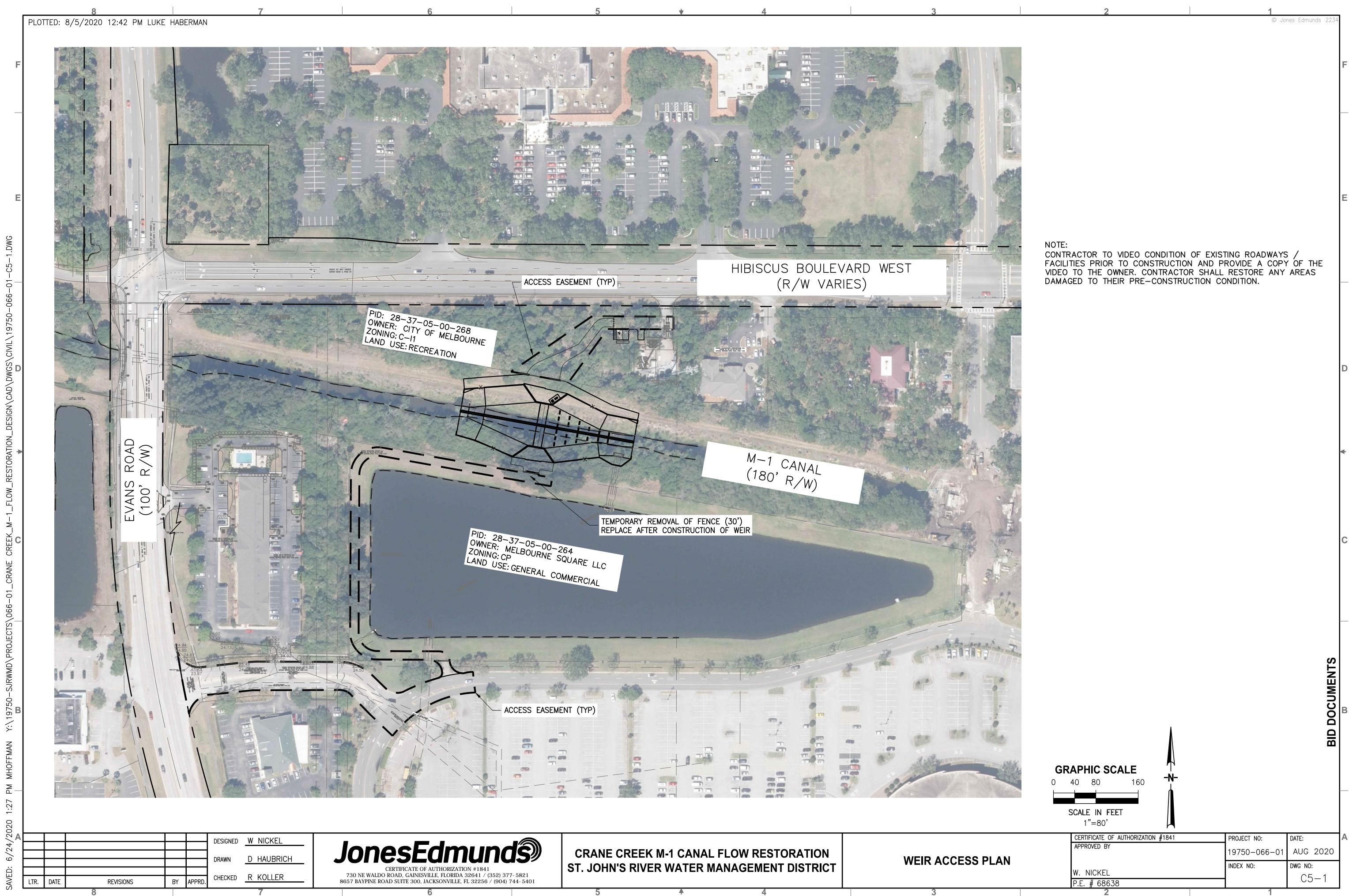
TREE REMOVAL DBH (IN) / TREE QTY SUMMARY				
SPECIES	BREVARD	MELBOURNE	TOTAL	
CA (CAMPHOR)	0 / 0	18 / 2	18 / 2	
M (MANGROVE)	122 / 14	0 / 0	122 / 14	
0 (0AK)	70 / 7	83 / 4	153 / 11	
P (PALM)	137 / 12	415 / 34	552 / 46	
PI (PINE)	237 / 18	0 / 0	237 / 18	

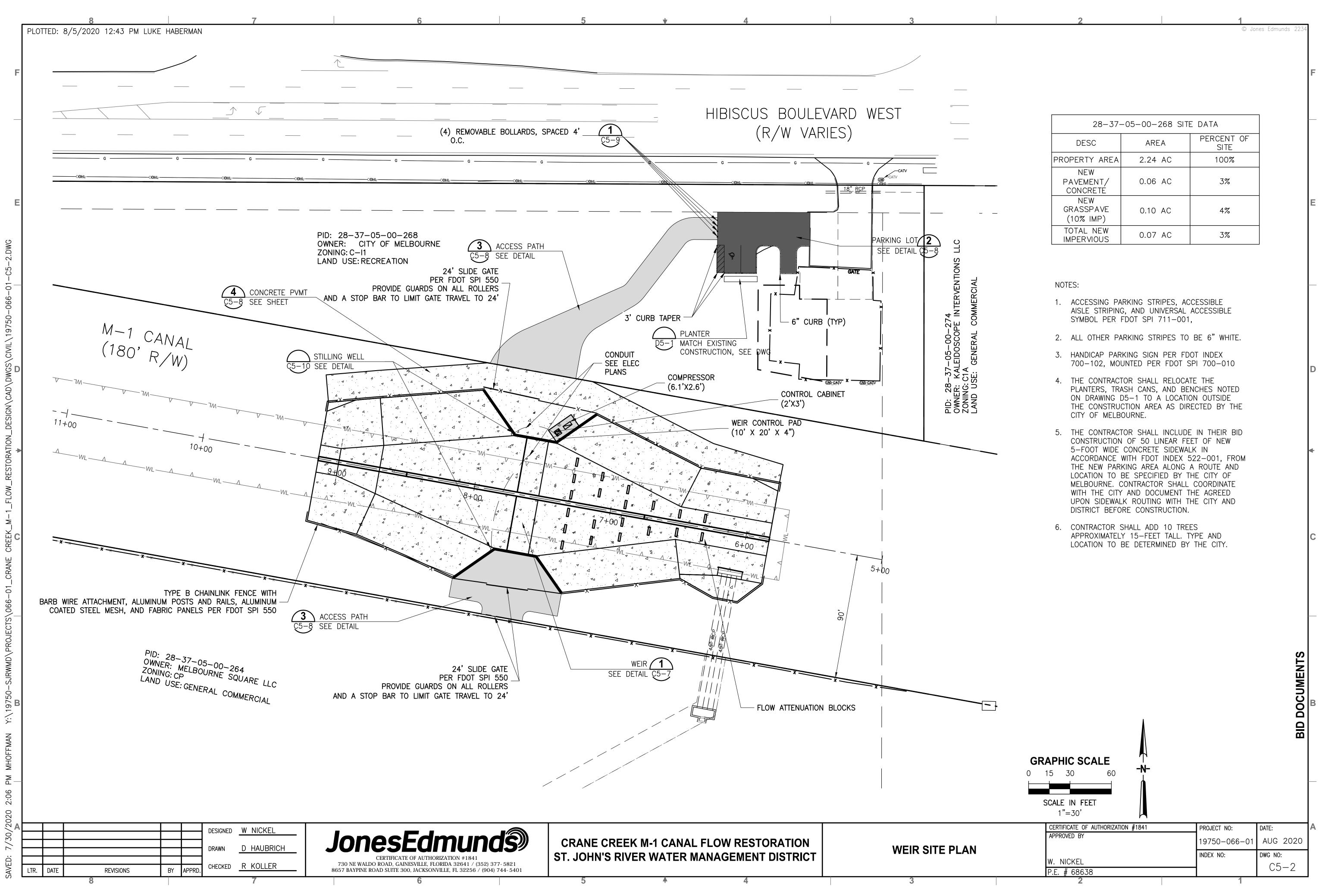
WEIR TREE REMOVAL AND DEMO PLAN

GRAPHIC SCALE	Ш
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SCALE IN FEET	
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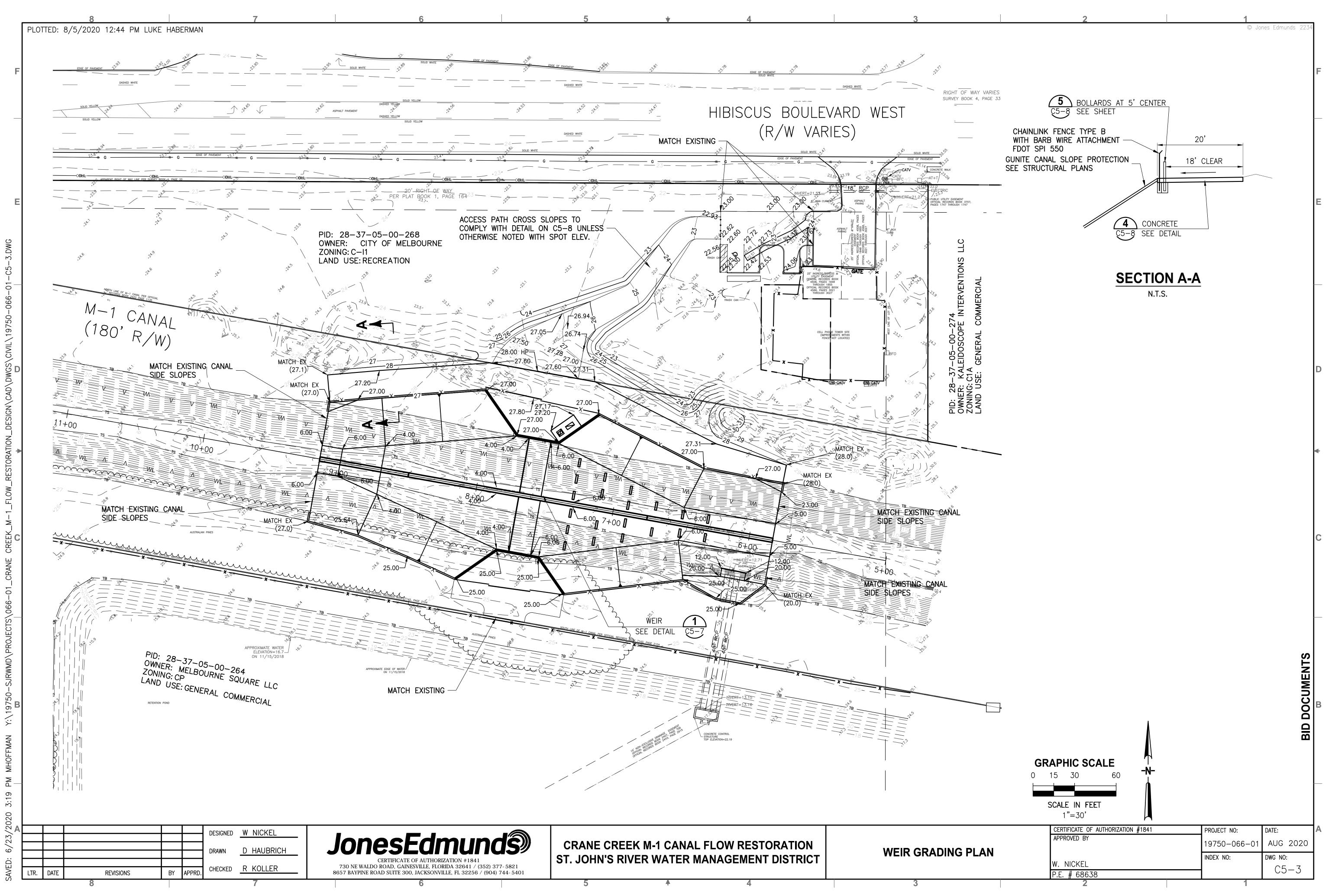
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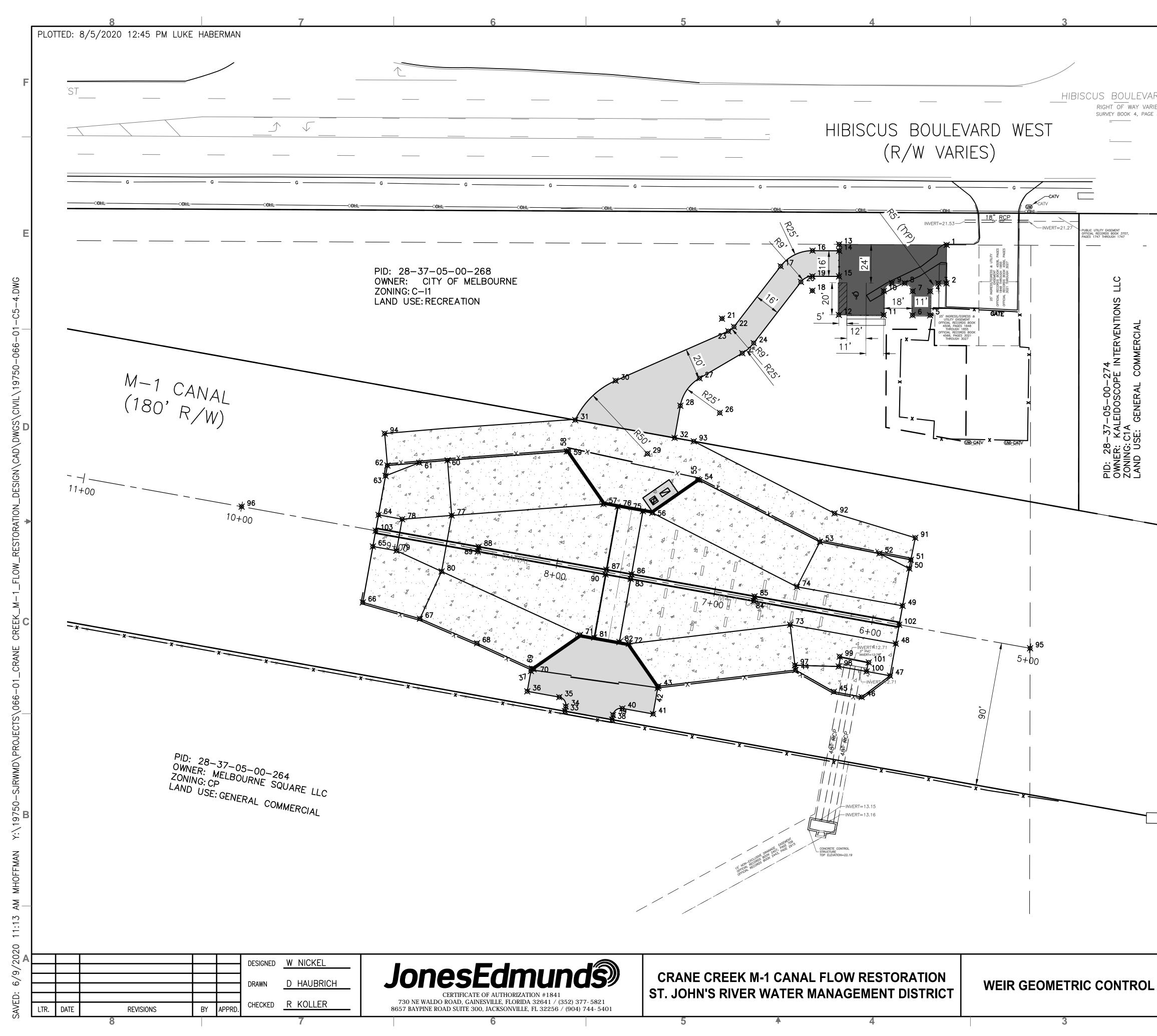
	CERTIFICATE OF AUTHORIZATION #1841	PROJECT NO:	DATE:	Α
I	APPROVED BY	19750-066-01	AUG 2020	
l	W. NICKEL	INDEX NO:	dwg no: D.5—1	
	P.E. # 68638		03-1	
	2	1		





28-37-05-00-268 SITE DATA			
DESC	AREA	PERCENT OF SITE	
PROPERTY AREA	2.24 AC	100%	
NEW PAVEMENT/ CONCRETE	0.06 AC	3%	
NEW GRASSPAVE (10% IMP)	0.10 AC	4%	
TOTAL NEW IMPERVIOUS	0.07 AC	3%	



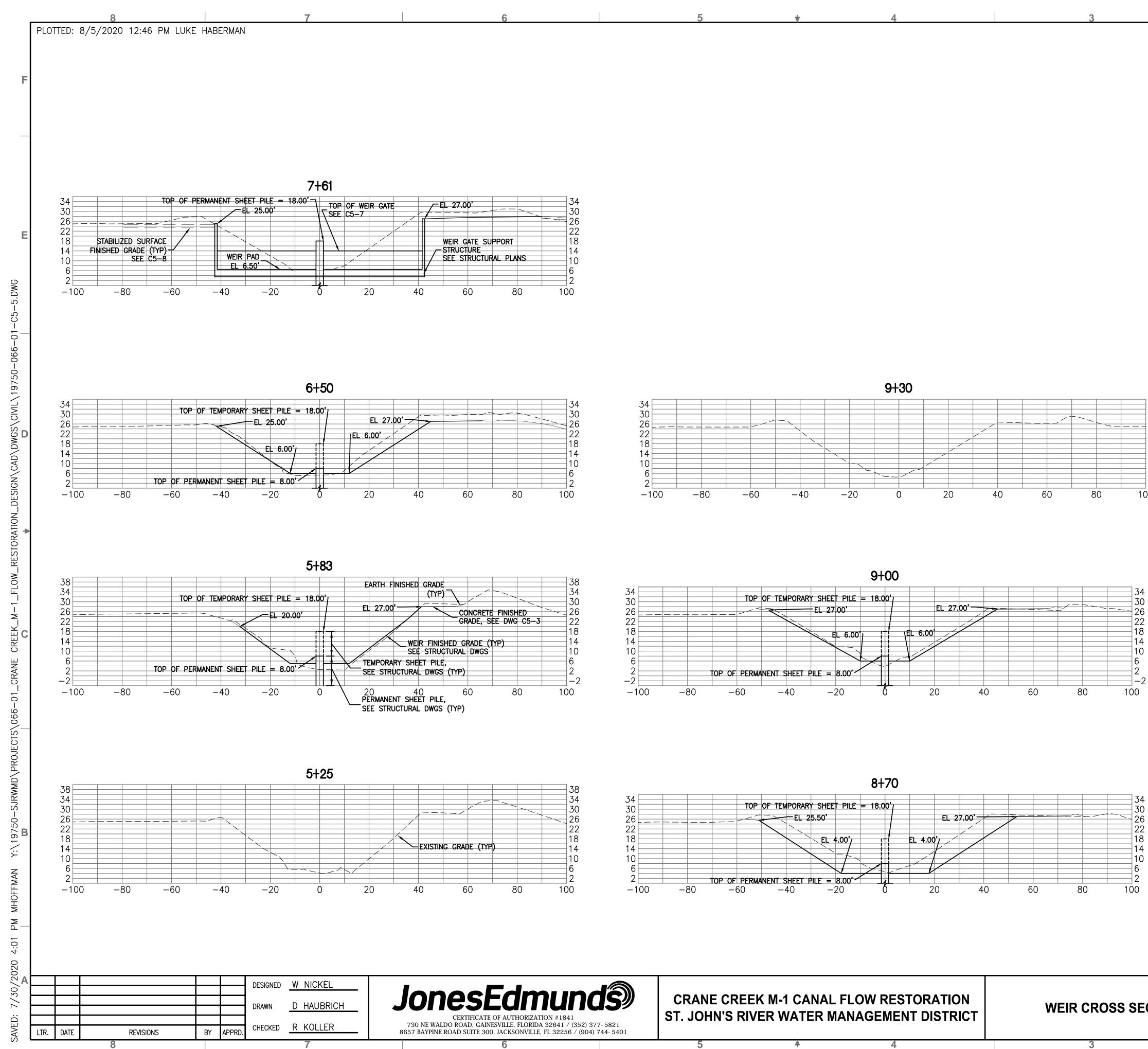


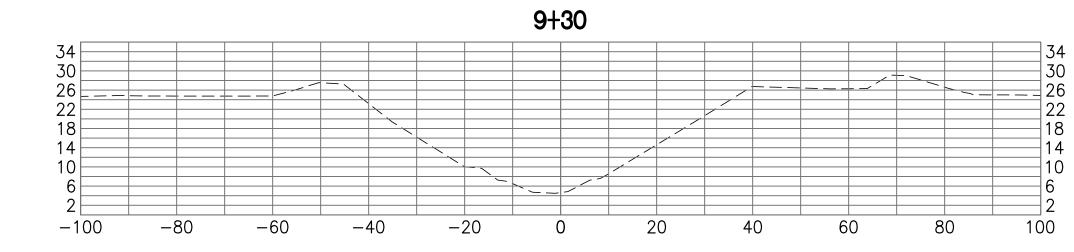
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	POINT	NORTHING	EASTING		POINT	NORTHING	EASTING	-	
	1	1363864.94	768501.07		53	1363679.58	768421.98	-	F
/ARC	2	1363840.94	768500.96		54	1363718.10	768346.69		
/ARIES AGE 33	3	1363840.96	768495.87		55	1363718.62	768345.68		
	4	1363835.99	768490.85		56	1363697.72	768317.38		-
	5	1363820.99	768490.77		57	1363703.20	768286.86		
	6	1363821.04	768479.77		58	1363736.08	768264.00		
	7	1363836.04	768479.85		59	1363736.16	768265.15	_	
	8	1363841.07	768474.87		60	1363730.48	768189.53		
	9	1363841.10	768466.87		61	1363728.98	768171.93		
	10	1363836.13	768461.85		62	1363727.29	768152.00		
	11	1363821.13	768461.77		63	1363720.80	768150.83]	Е
	12	1363821.27	768433.77		64	1363696.41	768146.45	7	
	13	1363865.27	768433.99		65	1363676.72	768142.92	1	
	14	1363861.27	768433.97		66	1363641.82	768136.65	-	
	15	1363845.27	768433.89		67	1363631.65	768172.30	-	
	16	1363861.35	768417.38		68	1363616.33	768207.96	-	
	17	1363851.62	768397.46		69	1363600.62	768242.17		
	18	1363836.35	768417.26		70	1363600.14	768243.23	-	-
								-	
	19	1363845.35	768417.30		71	1363621.50	768272.19	-	
	20	1363841.85	768410.13		72	1363616.02	768302.71	-	
	21	1363818.91	768360.86		73	1363627.91	768403.39	-	
	22	1363813.84	768368.32		74	1363651.54	768407.63		
	23	1363811.10	768364.81		75	1363698.78	768311.47		
	24	1363803.64	768380.65		76	1363701.61	768295.72		D
	25	1363797.34	768373.50		77	1363696.08	768192.11		
	26	1363760.13	768359.47		78	1363693.76	768161.22		
	27	1363781.70	768346.82		79	1363674.07	768157.68		
	28	1363764.55	768334.86		80	1363661.15	768185.84	7	
	29	1363734.67	768314.30		81	1363619.91	768281.05	7	
	30	1363780.21	768294.44		82	1363617.08	768296.80	-	
	31	1363755.63	768269.26		83	1363656.45	768303.87	-	•
	32	1363744.50	768331.26		84	1363642.67	768380.64	-	
	33	1363573.91	768262.80		85	1363645.62	768381.17		
	34	1363576.92	768263.33		86	1363659.41	768304.40	-	
	35	1363582.72	768259.29		87	1363662.24	768288.65		
	36	1363586.31	768239.29		88	1363676.55	768208.93		
	37	1363598.98	768241.57		89	1363673.60	768208.40		
								_	С
	38	1363568.61	768292.32		90	1363659.28	768288.12		
	39	1363571.61	768292.86		91	1363682.14	768481.49		
	40	1363575.65	768298.66		92	1363697.38	768431.09	-	
	41	1363572.21	768317.83		93	1363742.35	768343.20	_	
	42	1363588.36	768320.73		94	1363747.22	768150.30	_	
	43	1363589.50	768321.15		95	1363613.21	768553.15		
	44	1363599.61	768406.73		96	1363701.59	768061.02		
	45	1363586.05	768430.67		97	1363602.59	768406.38		
	46	1363582.75	768448.04		98	1363601.81	768433.67		
	47	1363596.06	768465.73		99	1363607.98	768434.27	BID DOCUMENTS	
	48	1363616.07	768469.34		100	1363598.73	768451.07		
	49	1363639.69	768473.58		101	1363604.37	768452.46] S	
	50	1363662.95	768477.76		102	1363627.88	768471.46	1 ປັ	В
1}	51	1363668.42	768478.74		103	1363686.57	768144.69		D
	52	1363672.35	768459.13						
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	GRA	PHIC SCA	LE	\mathbf{T}					
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	SC	ALE IN FEET							
		1"=30'		μ					J
		ERTIFICATE OF AU	THORIZATION #1	841		PROJEC	T NO:	DATE:	Α
	A	PROVED BY				19750	0-066-01	AUG 2020	
DL TABLE						INDEX 1	10:	DWG NO:	1
		. NICKEL						C5-4	
	<u> </u> ۲.	<u>E. # 68638</u> 2					1		l
I					I		-		

COORDINATE TABLE

© Jones Edmunds 2

COORDINATE TABLE

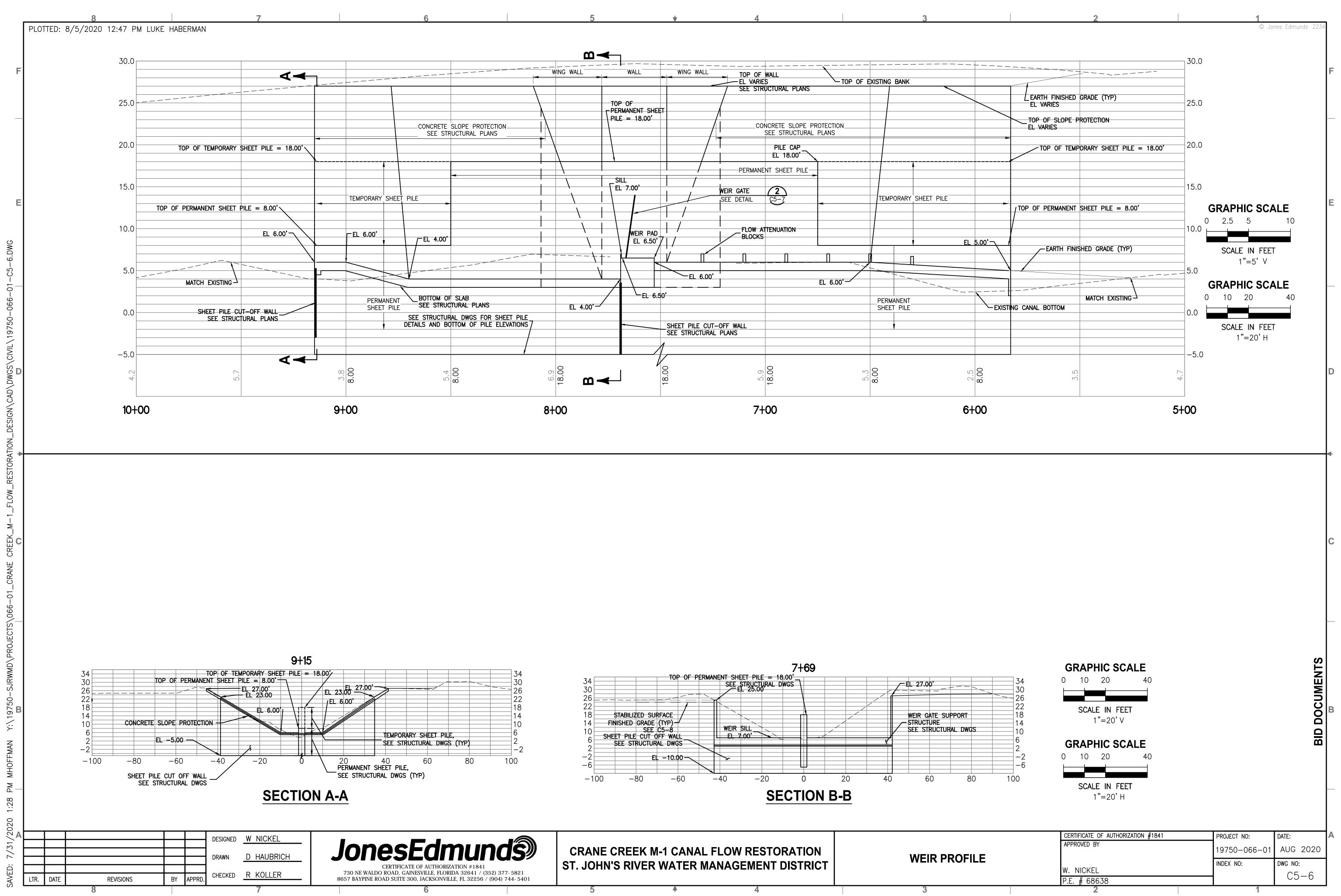


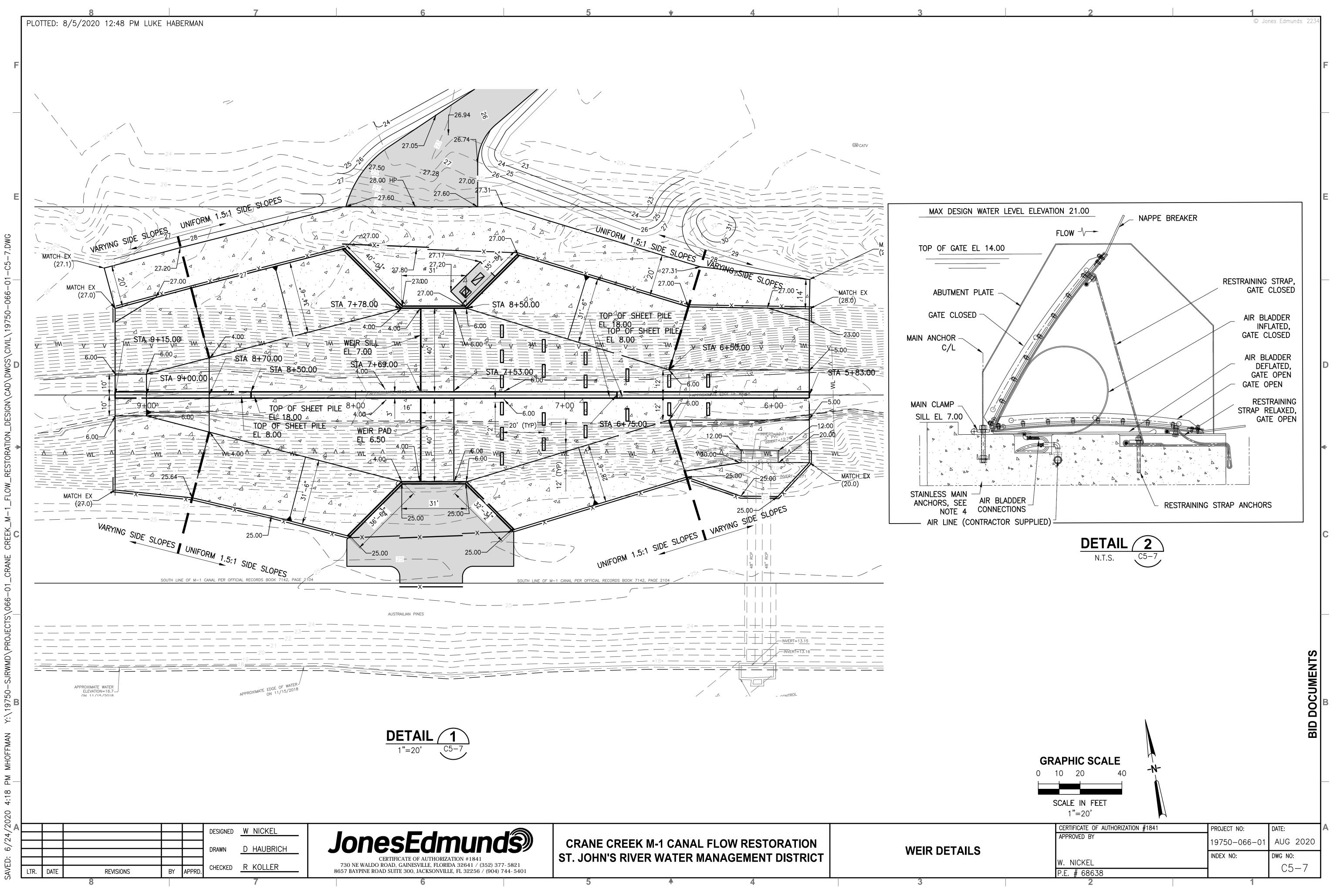


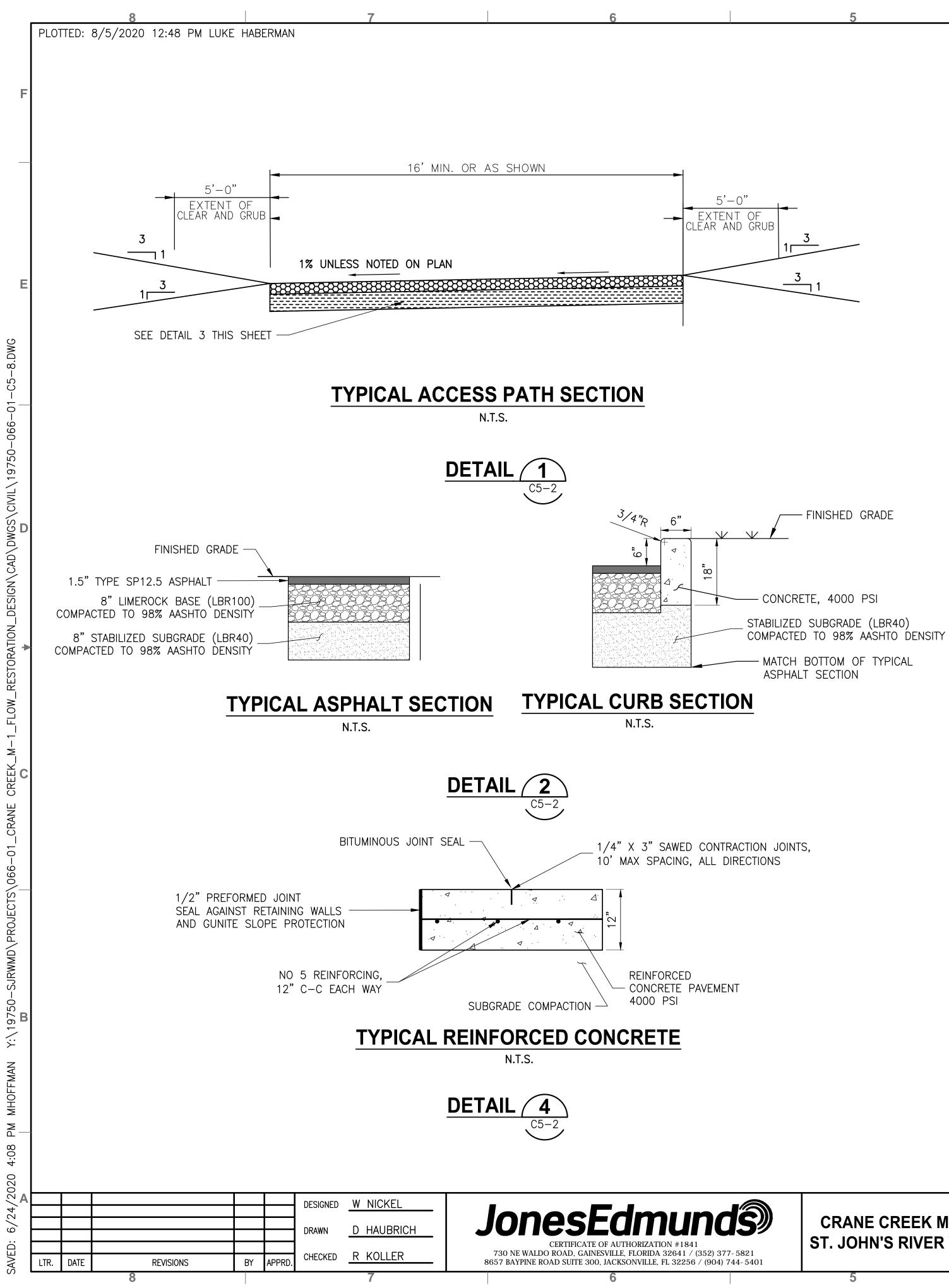
WEIR CROSS SECTIO

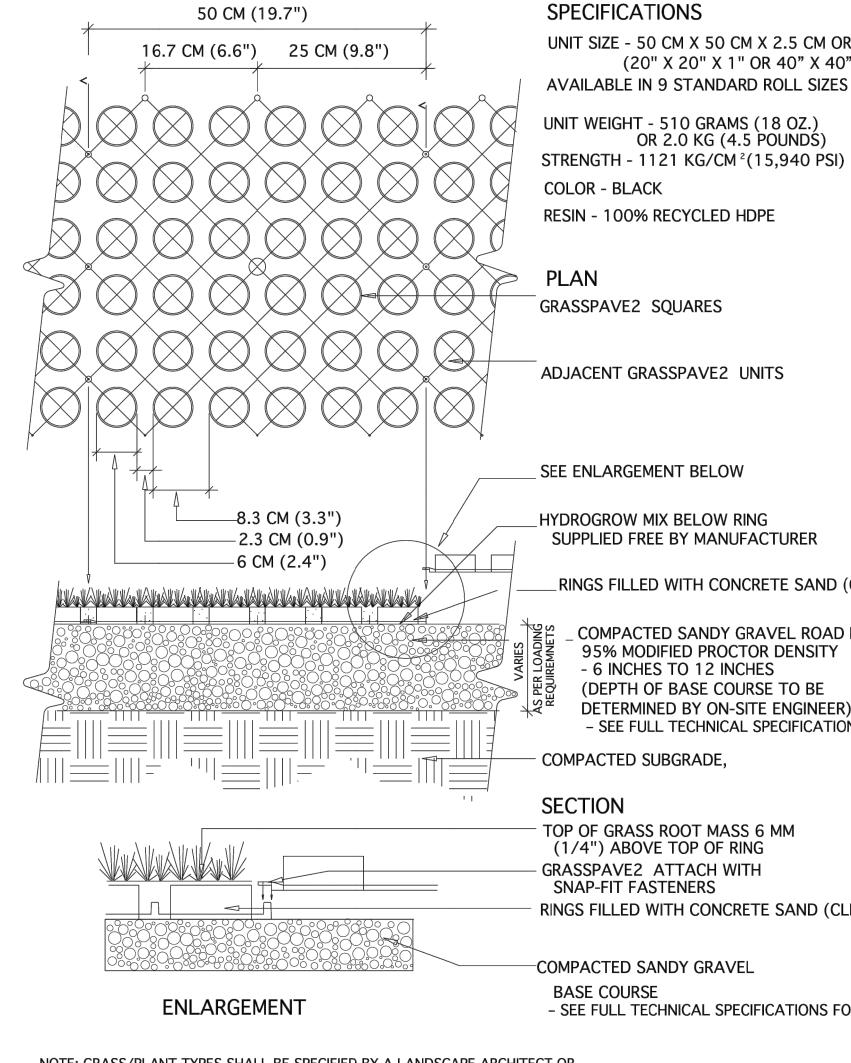
)	Jones	Edmunds	223

	GRAPHIC SCALE 0 10 20 40		BID DOCUMENTS	в
	SCALE IN FEET 1"=20'		DUTE	
ONS	CERTIFICATE OF AUTHORIZATION #1841 APPROVED BY	PROJECT NO: 19750-066-01		Α
	W. NICKEL P.E. # 68638	INDEX NO:	dwg no: C5—5	









NOTE: GRASS/PLANT TYPES SHALL BE SPECIFIED BY A LANDSCAPE ARCHITECT OR LANDSCAPE DESIGNER.

TYPICAL GRASSPAVE2 DETAIL

NOT TO SCALE



Invisible Structures, Inc. GPDET18.DWG

GRASSPAVE PRODUCT IS THE BASIS OF THE DESIGN. CONTRACTOR MAY USE THIS OR APPROVED EQUAL THROUGH FORMAL SUBMITTAL AND APPROVAL PROCESS

DETAIL /



303-233-8282 rev. 1/18

CRANE CREEK M-1 CANAL FLOW RESTORATION ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT

ACCESS DETAILS

3

© Jones Edmunds

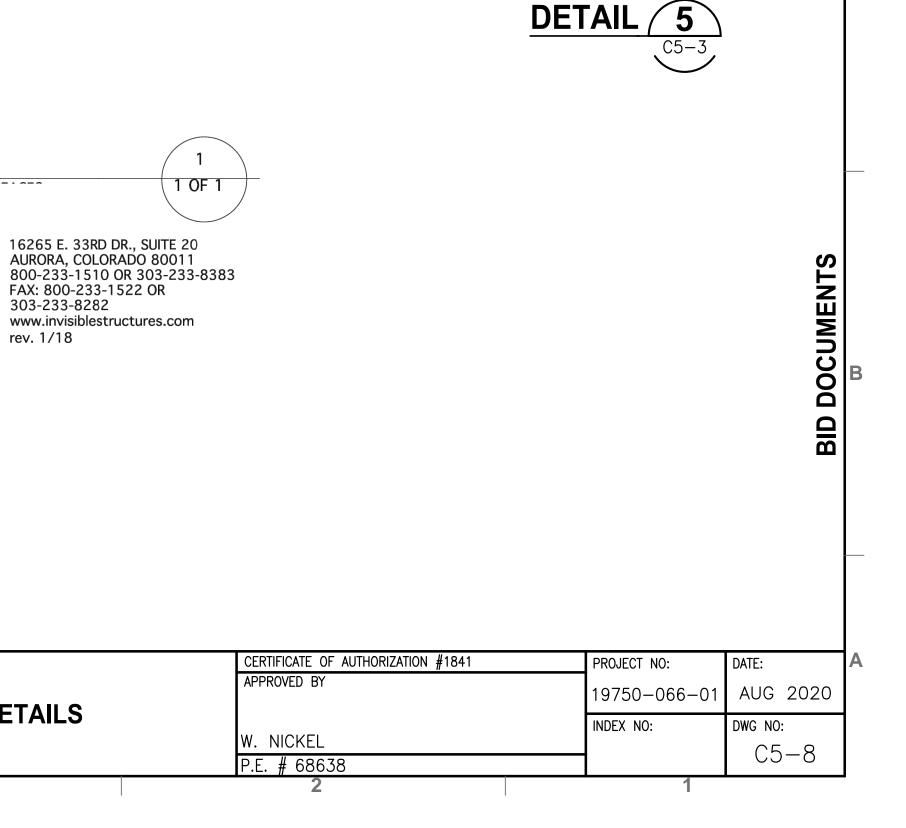
UNIT SIZE - 50 CM X 50 CM X 2.5 CM OR 1 M X 1 M X 2.5 CM (20" X 20" X 1" OR 40" X 40" X 1")

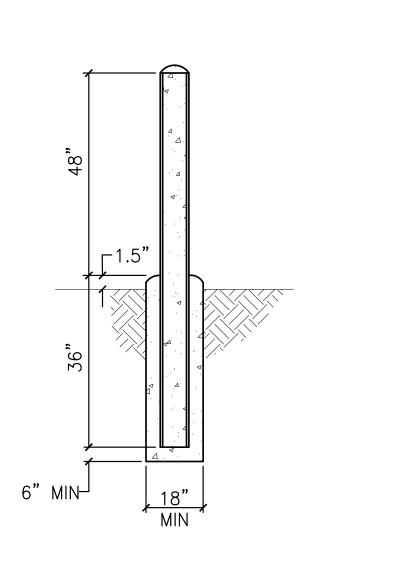
_RINGS FILLED WITH CONCRETE SAND (CLEAN, SHARP SAND)

COMPACTED SANDY GRAVEL ROAD BASE 95% MODIFIED PROCTOR DENSITY DETERMINED BY ON-SITE ENGINEER) - SEE FULL TECHNICAL SPECIFICATIONS FOR COMPOSITION

RINGS FILLED WITH CONCRETE SAND (CLEAN, SHARP SAND)

- SEE FULL TECHNICAL SPECIFICATIONS FOR COMPOSITION



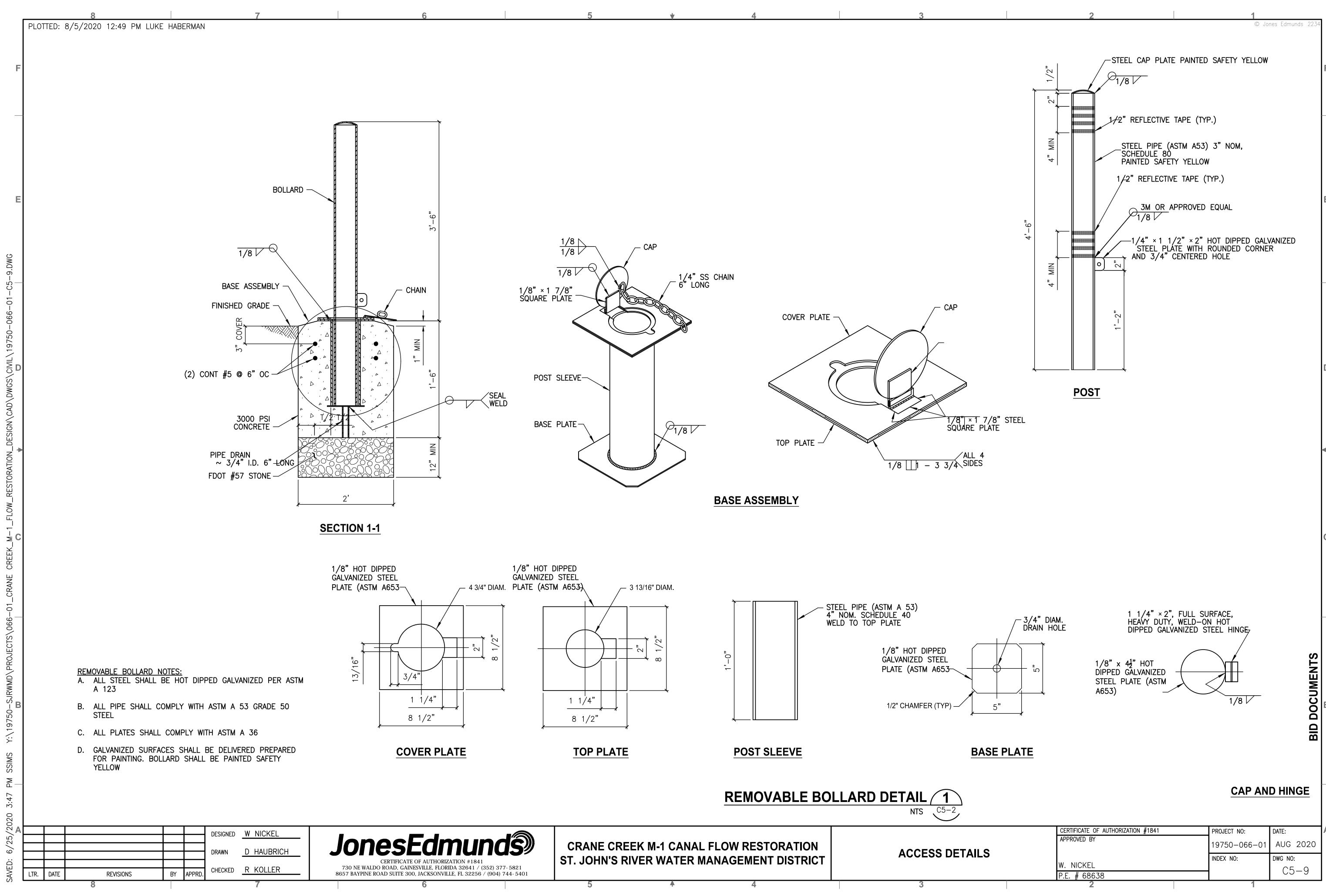


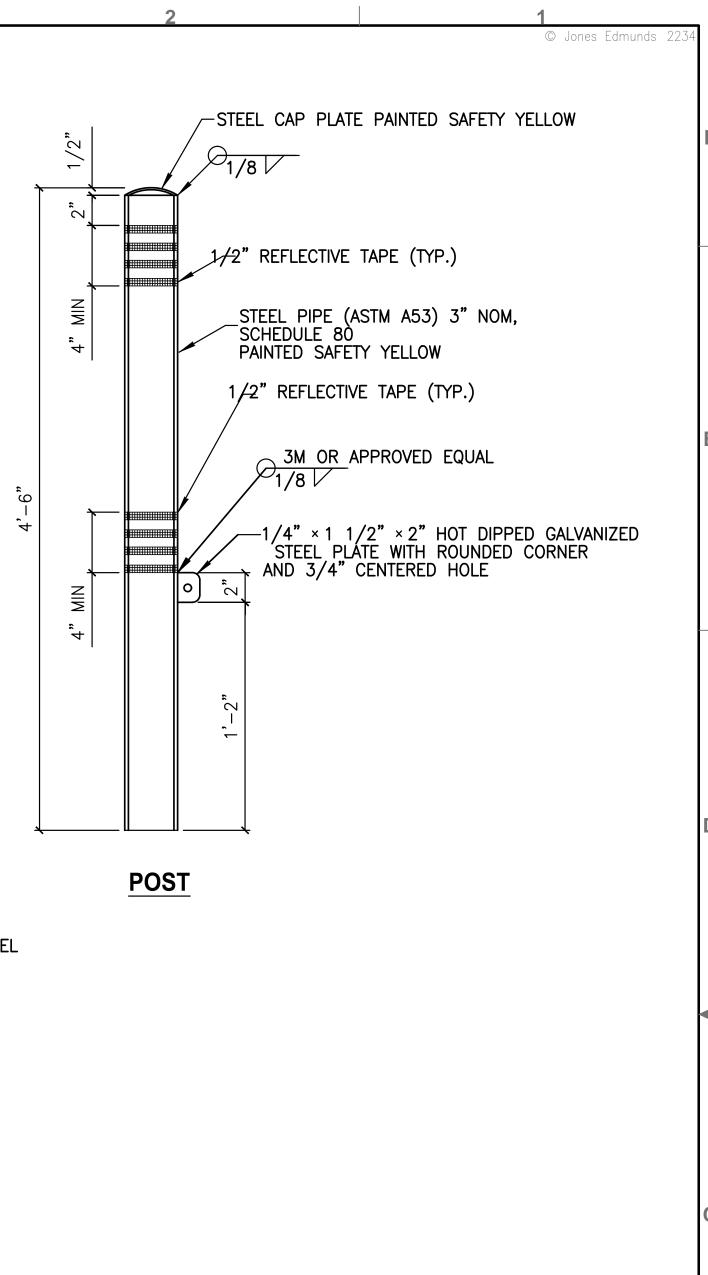
A. ACTUAL INSTALLATION LOCATION OF EACH BOLLARD SHALL BE AS SHOWN ON THE DRAWINGS OR AS DIRECTED IN THE FIELD.

- B. PAINT ALL PIPING MATERIALS OSHA SAFETY YELLOW.
- C. FOR CHAIN GATE, PROVIDE 3/4" HIGH-TEST CHAIN FOR GATE - 1,500 LBS WORKING LOAD LIMIT.

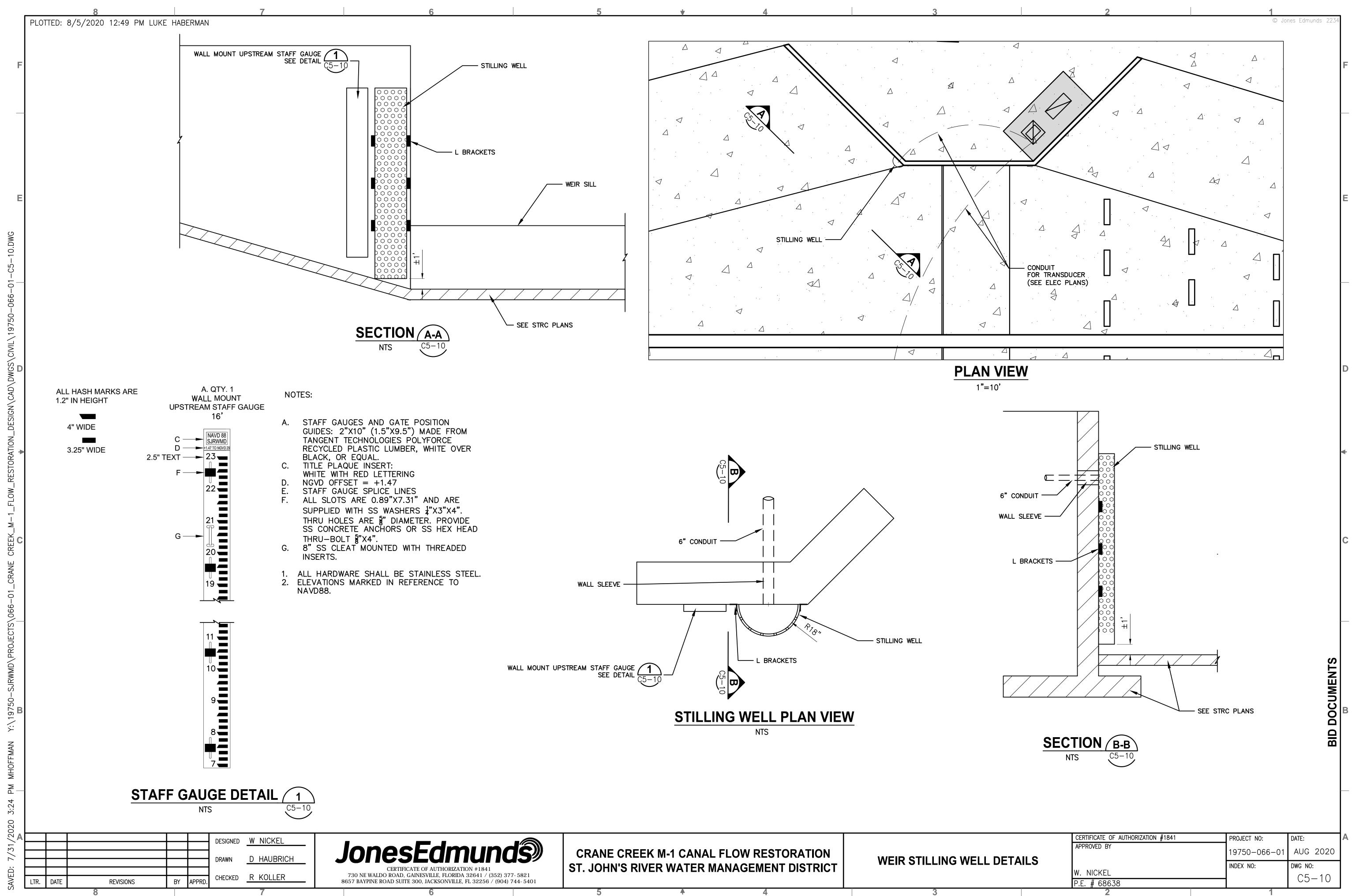
TYPE I BOLLARD DETAIL

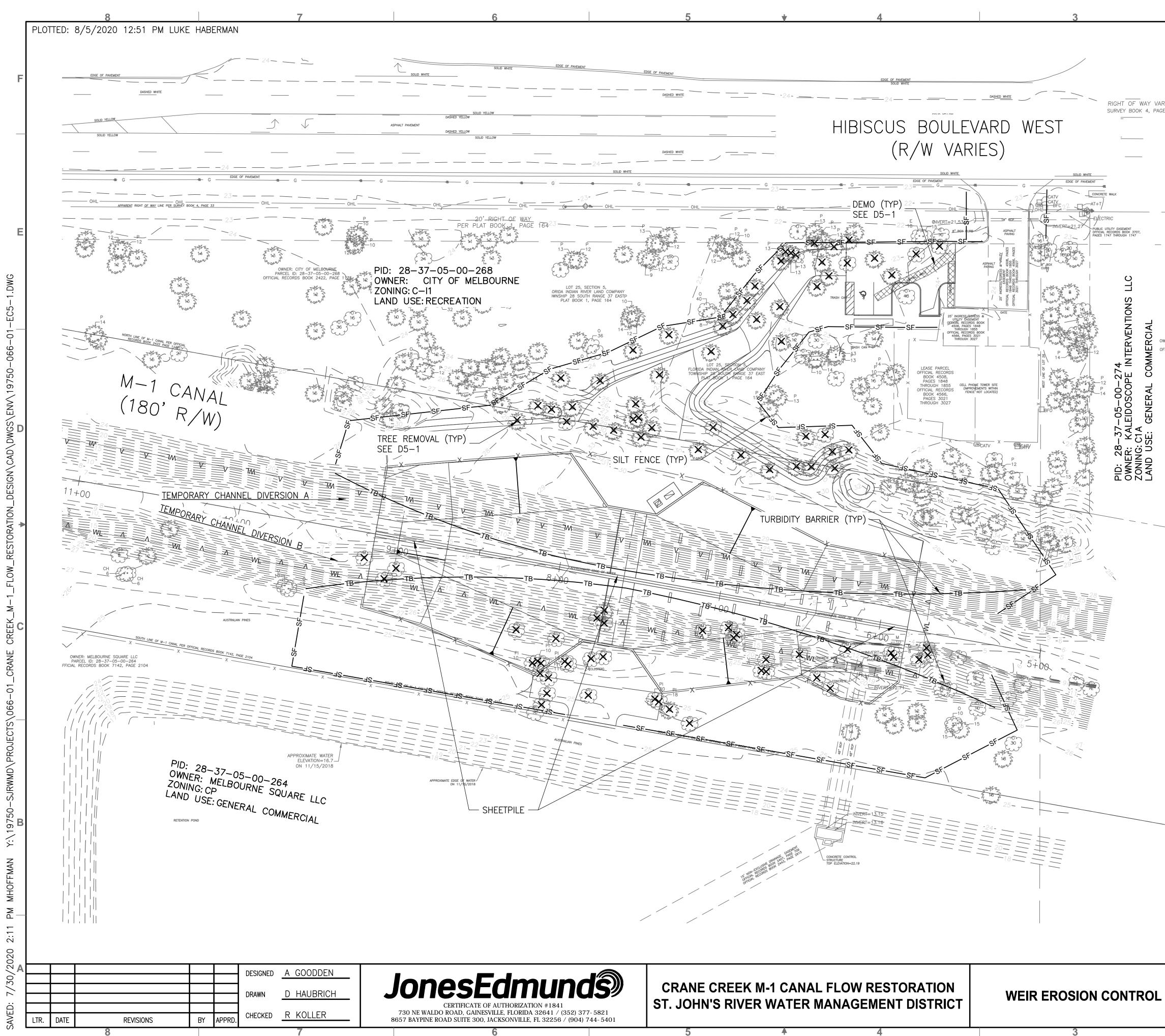
NTS





	CERTIFICATE OF AUTHORIZATION #1841	PROJECT NO:	DATE:	Α
LS	APPROVED BY	19750-066-01	AUG 2020	
LJ	W. NICKEL	INDEX NO:	dwg no: C5—9	
	P.E. # 68638		00-9	
	2	1		-





	NOTES:	
/ARIES AGE 33	 CONTRACTOR SHALL PREPARE A CONSTRUCTION PLAN INCORPORATING THE FOLLOWING: A. SCHEDULE 	
	A. SCHEDULE B. MEANS AND METHODS C. MAINTENANCE OF FLOW IN THE M-1 CANAL	
	D. EROSION CONTROL E. DEWATERING	
	 F. TURBIDITY CONTROL 2) THE PLAN SHALL BE SUBMITTED TO THE OWNER FOR REVIEW PRIOR TO MOBILIZING FOR CONSTRUCTION. 	
	3) THE WIDENING OF THE CHANNEL ALLOWS THE WEIR TO BE CONSTRUCTED IN 2 SECTIONS. THE ALTERNATE SIDE	
	MAY BE USED TO DIVERT THE FLOW OF THE M-1 CANAL AROUND THE ACTIVE WORK SITE.	
	 4) THE CENTER DIVERSION WALL HAS A MAX TOP OF WALL ELEVATION OF 18 FT. 5) CONTRACTOR CANNOT IMPEDE FLOW ABOVE TOP OF WALL 	
	ELEVATION AND MUST MAINTAIN A HYDRAULIC EQUIVALENT FLOW PATH TO THE EXISTING M-1 CHANNEL AS SHOW	
	ON C5-5, SEC 9+30.	
OWNER: PA OFFICIAL		
_		
FL T(
		TS
		MEN
		BID DOCUMENTS
	Å	DOC
		Β
	SCALE IN FEET	
	1"=30' PROJECT NO: DATE:	
L PLAN	APPROVED BY 19750-066-01 AUG 20	020
	A. GOODDEN P.E. # 60097	- 1
	<u>2</u>	

© Jones Edmunds

_	SITE DESCRIPTION	GENERAL
	<u>PROJECT NAME(S) AND LOCATION:</u> CRANE CREEK M—1 CANAL FLOW RESTORATION, WEIR COUNTY: SECTIONS 03, TOWNSHIP 28S; RANGE 37E	THE CONTRACTOR SHALL PREPARE A DETAILED CO MAINTAINS THE FLOW IN THE M-1 CANAL. THE C THE MAINTENANCE OF FLOW, CONSTRUCTION MEAN AND TURBIDITY CONTROL PLAN. IN ADDITION THE ADDITIONAL MEASURES REQUIRED TO BE IN COMP
	PROPERTY OWNER AND PERMISSIONS:	STANDARDS AND PERMIT CONDITIONS.
	THE WEIR CONSTRUCTION INVOLVES 3 PROPERTIES: 1) CITY OF MELBOURNE, MONOPOLE PARK–EASEMENT TO SJRWMD 2) BREVARD COUNTY, M–1 CANAL RIGHT–OF–WAY, RIGHT–OF–WAY PERMIT. 3) MELBOURNE SQUARE MALL – EASEMENT TO SJRWMD.	SEQUENCE OF MAJOR ACTIVITIES 1. SUBMIT DETAILED PLAN TO MAIN FLOW, CONSTRUCT WEIR, AND CONTROL EROSION AND TURBIDITY. 11
	DESCRIPTION:	2. COMPLETE AND SUBMIT NOTICE OF
	THIS PROJECT WILL CONSIST OF: THE CONSTRUCTION OF A NEW ACCESS DRIVEWAY, SHEETPILE, CONCRETE CANAL IMPROVEMENT, CONCRETE WEIR FOUNDATION, PNEUMATIC WEIR AND CONTROL SYSTEM, AND ASSOCIATED GRADING.	INTENT (NOI) TO FDEP. 13 3. INSPECT AND DOCUMENT CONDITION OF MONOPOLE PARK, M-1 CANAL, 14 MELBOURNE SQUARE MALL PROPERTY. 14
	SOIL DISTURBING ACTIVITIES WILL INCLUDE: CLEARING, GRUBBING; INSTALLING STABILIZED CONSTRUCTION ENTRANCE, PERIMETER, AND OTHER EROSION AND SEDIMENT CONTROLS; GRADING;	4. INSTALL STABILIZED CONSTRUCTION ENTRANCES AND PERIMETER 15 CONTROLS.
	EXCAVATION FOR CHANNEL IMPROVEMENTS, CONSTRUCTION OF ACCESS DRIVEWAY.	5. INSTALL SHEET PILE CENTER WALL.
	<u>SOILS:</u> SEE GEOTECHNICAL REPORT FOR SOILS DATA. <u>SITE MAPS:</u>	6. INSTALL SHEET PILE GRADE CONTROL 16 7. INSTALL TURBIDITY CURTAIN, AND EXCAVATE TEMPORARY DIVERSION
	SEE ATTACHED GRADING PLAN FOR PRE & POST DEVELOPMENT GRADES, AREAS OF SOILS, DISTURBANCE, LOCATION OF SURFACE WATERS, WETLANDS, PROTECTED AREAS, MAJOR STRUCTURAL AND NONSTRUCTURAL CONTROLS AND	EXCAVATE TEMPORARY DIVERSION 17 CHANNEL. I 8. STOCK PILE TOP SOIL AS REQUIRED.
	STORM WATER DISCHARGE POINTS. SEE ATTACHED EROSION & TURBIDITY CONTROL PLAN FOR LOCATION OF TEMPORARY STABILIZATION PRACTICES, AND TURBIDITY BARRIERS.	9. STABILIZE CLEARED AREAS AND STOCKPILES AS SOON AS PRACTICABLE.
	SEE GENERAL NOTES AND SPECIFICATIONS FOR REQUIREMENTS FOR TEMPORARY AND PERMANENT STABILIZATION.	10. DIVERT M-1 CANAL.
	<u>SITE AREA:</u> TOTAL AREA OF SITE – 1.5 ACRES TOTAL AREA TO BE DISTURBED – 1.10 ACRES	IT IS THE CONTRACTORS RESPONSIBILITY TO DEVI TURBIDITY CONTROLS SPECIFIC TO THEIR SCHEDU CONSTRUCTION. IT IS ALSO THE CONTRACTORS R
	<u>NAME OF RECEIVING WATERS:</u> M—1 CANAL. TURBIDITY STANDARD < 29 NTU ABOVE BACKGROUND, UNLESS OTHERWISE SPECIFIED IN FDEP OR USACE PERMITS.	THESE CONTROLS ARE PROPERLY INSTALLED, MA PROPERLY TO PREVENT TURBID OR POLLUTED W PROJECT SITE. THE CONTRACTOR WILL ADJUST TI AND ADD ADDITIONAL CONTROL MEASURES, AS R
	<u>FLOW</u> 2.33 YR 8 HR PEAK HOURLY FLOW RATE 385 CFS AT 17.5 FT 100 YR 8 HR PEAK FLOW RATE = 596 CFS AT EL 19.6 FT	MEETS ALL FEDERAL STATE AND LOCAL EROSION AND AS REQUIRED TO MEET THE SEDIMENT AND IMPOSED ON THE PROJECT SITE BY THE REGULA
	100 YR 24 HR PEAK FLOW RATE = 708 CFS AT EL 21.0 FT CONTROLS	EROSION AND SEDIMENT CONTROLS
	THIS PLAN UTILIZES BEST MANAGEMENT PRACTICES TO CONTROL EROSION AND TURBIDITY CAUSED BY STORM WATER RUN OFF, AN EROSION & TURBIDITY PLAN HAS BEEN PREPARED TO INSTRUCT THE CONTRACTOR ON PLACEMENT OF	<u>STABILIZATION PRACTICES</u> 1. FILTER FABRIC BARRIER: FILTER FABRIC BARRIE DISTURBED AREAS SUBJECT TO SHEET AND RIE LIMITATIONS:
	THESE CONTROLS, IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL AND MAINTAIN THE CONTROLS AS PER PLAN AS WELL AS ENSURING THE PLAN IS PROVIDING THE PROPER PROTECTION AS REQUIRED BY FEDERAL, STATE, AND LOCAL LAWS. REFER TO 'CONTRACTORS REQUIREMENTS' FOR A VERBAL DESCRIPTION OF THE CONTROLS THAT MAY BE IMPLEMENTED.	A. WHERE THE MAXIMUM SLOPE BEHIN B. IN MINOR SWALES OR DITCH LINES DRAINAGE AREA IS NO GREATER THAN 2. BRUSH BARRIER WITH FILTER FABRIC: BRUSH
	CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS	DISTURBED AREAS SUBJECT TO SHEET AND RI MATERIAL IS AVAILABLE ON SITE. 3. LEVEL SPREADER: A LEVEL SPREADER MAY BE
	IN AN EFFORT TO ENSURE COMPLIANCE WITH FEDERAL, STATE, AND LOCAL LAWS REGARDING EROSION AND TURBIDITY CONTROLS, THE FOLLOWING PERMITS HAVE BEEN OBTAINED. FDEP ERP PERMIT # <u>0384808-001-EI</u> U.S.A.C.E. PERMIT # <u>SAJ-2019-04646</u>	RUNOFF IS INTERCEPTED AND DIVERTED AWAY UNDISTURBED STABILIZED AREAS. THIS PRACTI- WHERE THE SPREADER CAN BE CONSTRUCTED BELOW THE LEVEL UP IS STABILIZED. THE WA
	U.S.A.C.E. PERMIT #SAJ=2019=04646 POLLUTION PREVENTION PLAN CERTIFICATION	RECONCENTRATE AFTER RELEASE. 4. STOCKPILING MATERIAL: NO EXCAVATED MATER MANNER AS TO DIRECT RUNOFF DIRECTLY OFF ADJACENT WATER BODY OR STORM WATER CO
	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUPARTED PASED ON MY INCLURY OF THE	5. EXPOSED AREA LIMITATION: THE SURFACE AREA CLEARING GRUBBING OPERATIONS OR EXCAVATI EXCEED 2.0 ACRES. THIS REQUIREMENT MAY B
	AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FORGATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS,	DETAILED EROSION CONTROL PLAN PREPARED PLAN MUST INCLUDE A SCHEDULE, DESCRIPTIO METHODS AND EROSION CONTROL MANAGEMENT
	TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.	OPENING OF ADDITIONAL AREA WILL NOT SIGNI SEDIMENTS.
	SIGNED:	6. TEMPORARY SEEDING: AREAS OPENED BY CONS NOT ANTICIPATED TO BE RE-EXCAVATED OR DF TREATMENT WITHIN 21 DAYS SHALL BE SEEDED
	TITLE: DATE:	SPECIES WHICH WILL PROVIDE AN EARLY COVE PLANTED AND WILL NOT LATER COMPETE WITH
	TIMING OF CONTROLS/MEASURES AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE SILT FENCES,	-
	STABILIZED CONSTRUCTION ENTRANCE AND TURBIDITY CURTAIN WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS	INVENTORY FOR POLLUTION PREVEN
	PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. ONCE CONSTRUCTION ACTIVITY	THE MATERIAL OR SUBSTANCES LISTED BELOW A ONSITE DURING CONSTRUCTION:
	CEASES PERMANENTLY IN ACCORDANCE WITH THE PLANS AND AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT TRAPS AND STABILIZED IN ACCORDANCE WITH THE SEDIMENT AND EROSION CONTROL PLAN.	CONCRETE FERTILIZERS DETERGENTS PETROLEUM BASED PRODUC CLEANING SOLVENTS PAINTS
		<u> </u>
	DESIGNED A GOODDEN	JonesEdm
	D HAUBRICH	JUICSEUI CERTIFICATE OF AUTHORIZAT
	DATE DEVICIONS DY ADDED CHECKED R KOLLER	730 NE WALDO ROAD, GAINESVILLE, FLORID

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	7. TURBIDITY BARRIER SHALL BE USED TO MINIMIZE TURBIDITY CAUSED BY EROSION	SPILL PREVENTION	MAINTENANCE/INSPECTION PROCEDURES
TION SCHEDULE WHICH TION SCHEDULE SHALL SHOW METHODS AND THE EROSION	DURING EXCAVATION ALONG THE BANK OF THE M-1 CANAL. TURBIDITY CURTAIN SHALL BE INSTALLED PARALLEL TO THE FLOW OF MOVING WATER IN ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS.		EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES THE FOLLOWING ARE INSPECTION AND MAINTENANCE PRACTICES THAT WILL
ITHODS AND THE EROSION TOR SHALL UNDERTAKE ITH STATE WATER QUALITY	 8. DEWATER AS NEEDED DIRECTING WATER TO DOWNSTREAM STABILIZED SECTIONS OF THE CANAL. TURBIDITY CONTROLS MEASURES SUCH AS JUTE BAFFLES WITH 	THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.	BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS. NO MORE THAN 0.5 ACRES OF THE SITE WILL BE CLEARED
	POLYACRYLIMIDE MAY BE USED.	GOOD HOUSEKEEPING THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE	AT ONE TIME WITHOUT WRITTEN PERMISSION FROM THE ENGINEER. ALL CONTROL MEASURES WILL BE INSPECTED BY A CERTIFIED
CT $\frac{1}{2}$ WEIR FOUNDATION AND E CHANNEL.	9. TEMPORARY REGRASSING: IF, AFTER 14 DAYS FROM SEEDING, THE TEMPORARY GRASSED AREAS HAVE NOT MAINTAINED A MINIMUM OF 75 PERCENT GOOD	DURING THE CONSTRUCTION PROJECT. AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO	SUPERINTENDENT, THE PERSON RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATION OR SOMEONE APPOINTED BY THE
VEIR PANEL.	GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATIVE COVER.	DO THE JOB. ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY	SUPERINTENDENT, AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF ANY STORM EVENT OF 1/2" OR GREATER.
–1 THROUGH COMPLETED	10. MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED.	MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.	ALL TURBIDITY CONTROL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.
CT SECOND ½ WEIR ON AND CONCRETE	11. PERMANENT EROSION CONTROL: THE EROSION CONTROL FACILITIES OF THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON THE OFFSITE	PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.	BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.
ANNEL IMPROVEMENTS AND	FACILITIES. 12. PERMANENT SODDING: ALL AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION WILL BE SODDED.	SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER. WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE	SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY
, LOOSEN SOIL ALONG ROAD. RASSPAVE AND FINAL	<u>STRUCTURAL PRACTICES</u> 1. TEMPORARY CHANNEL DIVERSION: TEMPORARY CHANNEL DIVERSION SHALL BE	DISPOSING OF THE CONTAINER. MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL	IN THE GROUND. CONSTRUCTION ENTRANCES WILL BE INSPECTED FOR DEPTH OF CRUSHED STONE BED AND FILTER FABRIC CONDITION. THE BED
ION FOR ACCESS ROAD.	USED TO DIVERT M-1 CANAL AROUND THE ACTIVE WORK ZONE.	BE FOLLOWED. HAZARDOUS PRODUCTS	SHALL HAVE A 6" THICKNESS AND THE FILTER FABRIC SHALL BE FREE OF TEARS AND FIRMLY SECURE. ENTRANCES SHALL BE
AND THE SITE IS , REMOVE ANY TEMPORARY		THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.	REMOVED PRIOR TO CONSTRUCTION OF DRIVEWAYS. THE SEDIMENT BASINS WILL BE INSPECTED FOR DEPTH OF
I SWALES/DIKES AND SOD AS REQUIRED.		PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE. ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY	SEDIMENT, AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 10 PERCENT OF THE DESIGN CAPACITY OR AT THE END OF THE JOB.
E AND SUBMIT NOTICE OF ON (NOT) TO FDEP.		CONTAIN IMPORTANT PRODUCT INFORMATION.	DIVERSION DIKES/SWALES WILL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED.
ROSION AND		IF SURPLUS PRODUCT MUST BE DISPOSED OF MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED. PRODUCT SPECIFIC PRACTICES	TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
HODS OF Y TO ENSURE) FUNCTIONING		THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE: PETROLEUM PRODUCTS	A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. COPY OF THE REPORT FORM TO BE
EAVING THE CONTROL PLAN ENSURE THE SITE		ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE MAINTENANCE TO REDUCE THE CHANCE OF	COMPLETED BY THE INSPECTOR IS ATTACHED. THE REPORTS WILL BE KEPT ON SITE DURING CONSTRUCTION AND AVAILABLE UPON REQUEST TO THE OWNER, ENGINEER OR
NT CONTROL PLAN EQUIREMENTS ES.	SPILL CONTROL PRACTICES	LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S	ANY FEDERAL, STATE, AND LOCAL AGENCY APPROVING SEDIMENT AND EROSION PLANS, OR STORM WATER MANAGEMENT PLANS. THE REPORTS SHALL BE MADE AND
	IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE	RECOMMENDATIONS. FERTILIZERS	RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED AND THE NOTICE
USED BELOW	FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP: MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL	FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER.	OF TERMINATION IS SUBMITTED. THE REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE.
WITH THE FOLLOWING IER IS 33 PERCENT.	BE CLEARLY POSTED ON SITE AND SITE PERSONNEL WILL BE MADE AWARE OF THE METHODS AND POSTED LOCATION.	STORAGE WILL BE IN A COVERED AREA. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.	THE SITE SUPERINTENDENT WILL SELECT UP TO THREE CERTIFIED INDIVIDUALS WHO WILL BE RESPONSIBLE FOR INSPECTIONS MAINTENANCE AND REPAIR ACTIVITIES AND
MAXIMUM CONTRIBUTING	MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE, BUT NOT BE LIMITED TO BROOMS, DUST	PAINTS ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT	INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.
WHERE ENOUGH RESIDUE	PANS, MOPS, RAGS, GLOVES, GOGGLES, LIQUID ABSORBENT (I.e. KITTY LITTER OR EQUAL), SAND SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.	REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.	PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT AND MUST ENFORCE THE FDEP NPDES
RE SEDIMENT-FREE STORM GRADED AREAS ONTO DNLY IN THOSE SITUATIONS	ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.	CONCRETE TRUCKS CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER TO DITCHES,	SWPPP FOR THIS PROJECT. THEY WILL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED
JRBED SOIL AND THE AREA NOT BE ALLOWED TO	THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM	PONDS OR OTHER WATERWAYS. WASHWATER SHALL BE COLLECTED IN A TEMPORARY SETTLING POND.	ONSITE IN GOOD WORKING ORDER. NON-STORM WATER DISCHARGES
E STOCKPILED IN SUCH A CT SITE INTO ANY	CONTACT WITH A HAZARDOUS SUBSTANCE. SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED	OTHER CONTROLS	IT IS EXPECTED THAT THE FOLLOWING NON-STORM WATER DISCHARGES WILL OCCUR FROM THE SITE DURING THE
CILITY. ERODIBLE SOIL EXPOSED BY	IMMEDIATELY TO THE OWNER. THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE	WASTE DISPOSAL WASTE MATERIALS	CONSTRUCTION PERIOD. UNCONTAMINATED GROUNDWATER (FROM DEWATERING
ING OPERATIONS SHALL NOT ' THE OWNER WITH A IRACTOR. THE DETAILED	MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP	ALL WASTE MATERIALS EXCEPT LAND CLEARING DEBRIS SHALL BE COLLECTED AND STORED IN A METAL DUMPSTER. THE DUMPSTER WILL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. THE DUMPSTER WILL BE EMPTIED AS	FXCAVATION)
RUCTION MEAND AND WHICH DEMONSTRATES THAT ECT OFF-SITE DEPOSIT OF	MEASURES WILL ALSO BE INCLUDED. THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE	NEEDED AND THE TRASH WILL BE HAULED TO A STATE APPROVED LANDFILL ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE	TO THE SEDIMENT BASIN OR OTHER APPROPRIATE AREA PRIOR TO DISCHARGE TO EXISTING DITCHES OR WETLANDS.
PERATIONS AND THAT ARE	OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE/SHE WILL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL, WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP	CONSTRUCTION SITE BY THE CONSTRUCTION SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES THE DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.	
RECEIVE FINAL GRASSING CK GROWING GRASS. IE SEASON IN WHICH IT IS	TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP, THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL	ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER	I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT
ENT GRASSING.	STORAGE AREA AND IF APPLICABLE, IN THE OFFICE TRAILER ONSITE.	SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES AND THE SITE SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES DAY-TO-DAY SITE	AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FROM THE SITE IDENTIFIED AS PART OF THIS CERTIFICATION.
		OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.	SIGNATURE BUSINESS NAME & ADDRESS RESPONSIBLE OF CONTRACTOR, ALL SUBS FOR/DUTIES
		SANITARY WASTE ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NEEDED TO PREVENT POSSIBLE SPILLAGE. THE WASTE WILL BE COLLECTED AND	GENERAL CONTRACTOR
TO BE PRESENT		DISPOSED OF IN ACCORDANCE WITH STATE AND LOCAL WASTE DISPOSAL REGULATIONS FOR SANITARY SEWER OR SEPTIC SYSTEMS.	SUBCONTRACTOR
)		OFFSITE VEHICLE TRACKING A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. DUMP TRUCKS HAULING MATERIAL FROM	
		THE CONSTRUCTION SITE WILL BE COVERED WITH A TARP.	
			IFICATE OF AUTHORIZATION #1841 PROJECT NO: DATE:
			OVED BY



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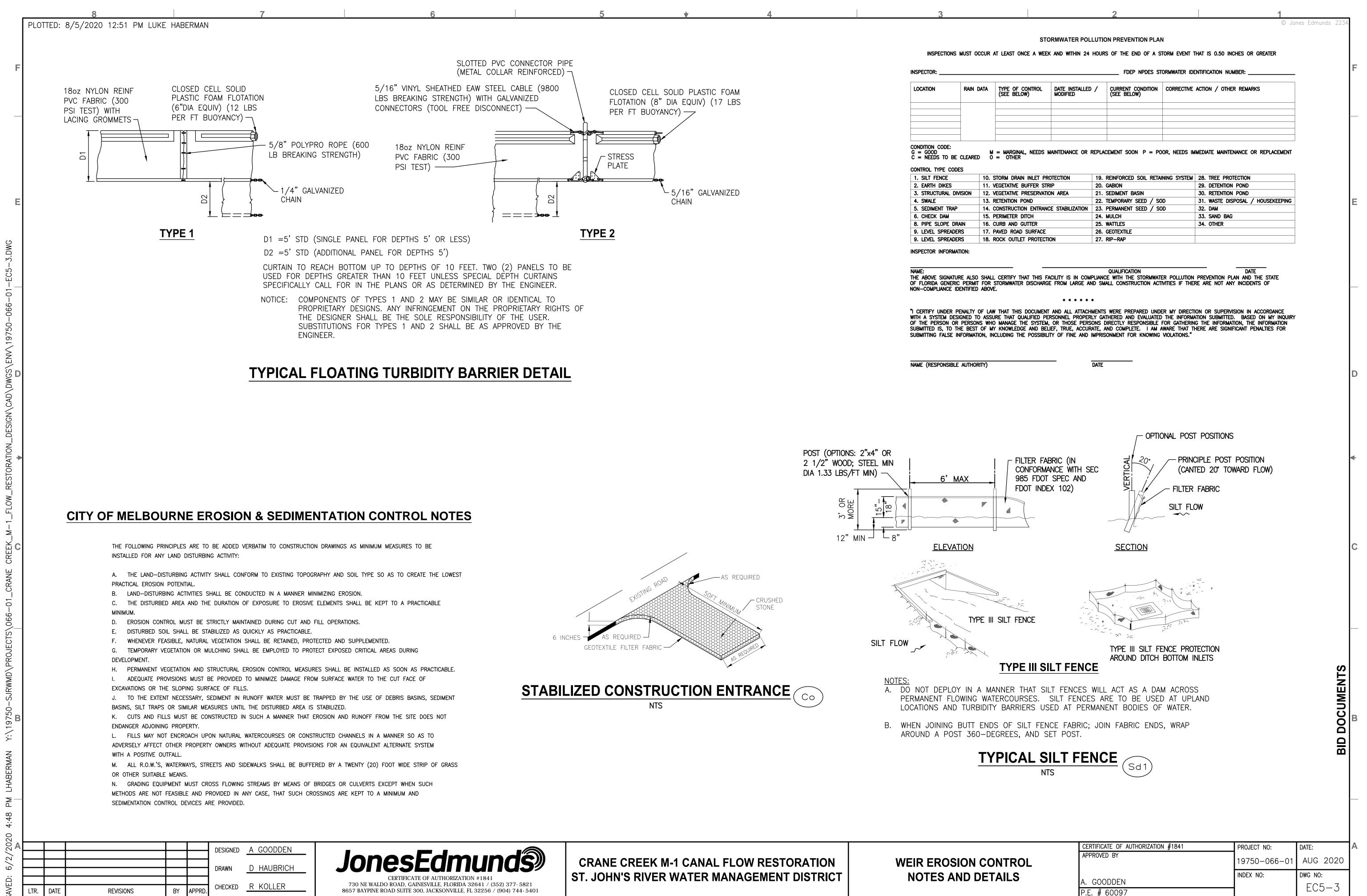
CRANE CREEK M-1 CANAL FLOW RESTORATION ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT

WEIR STORMWATER POL PREVENTION NOTE

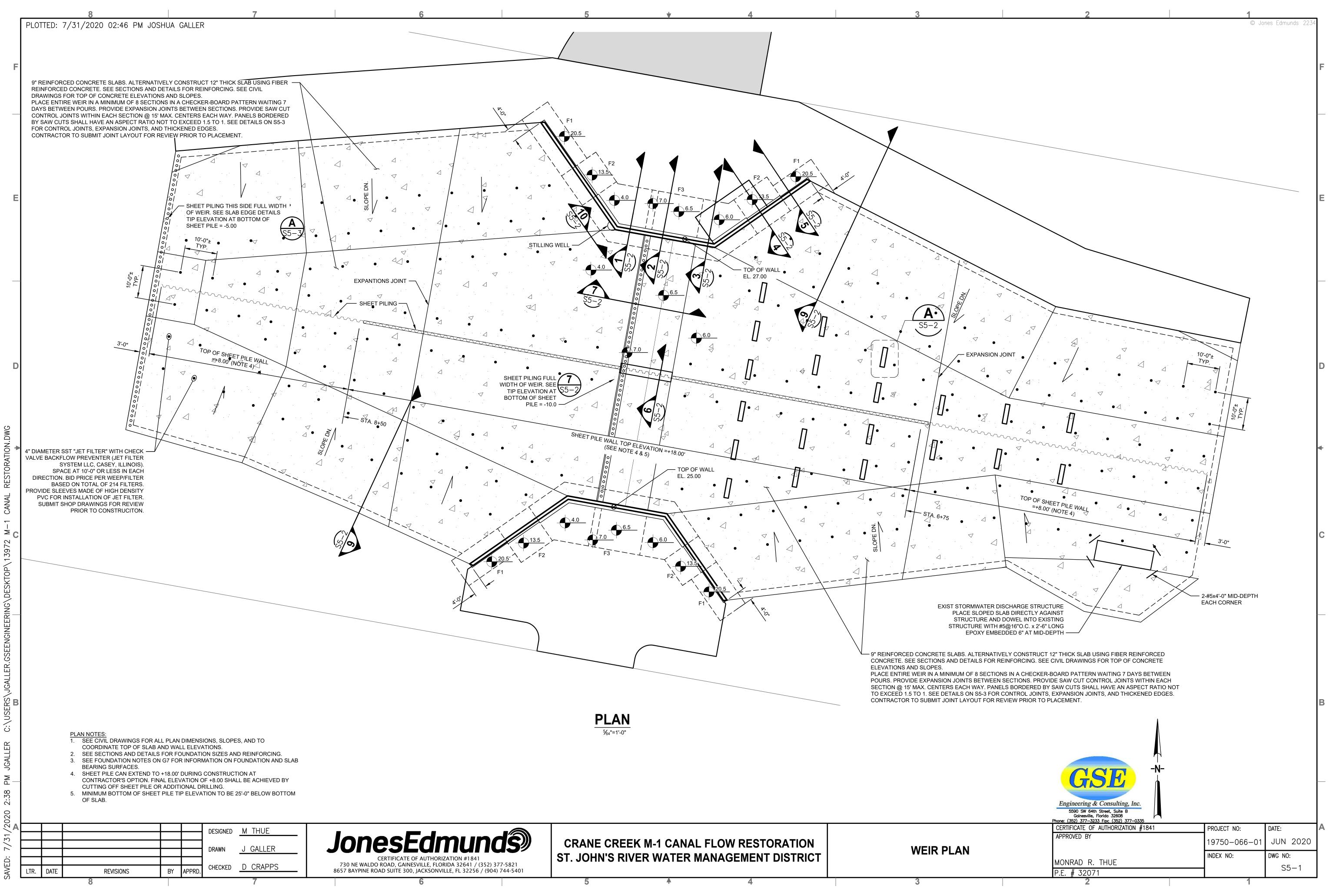
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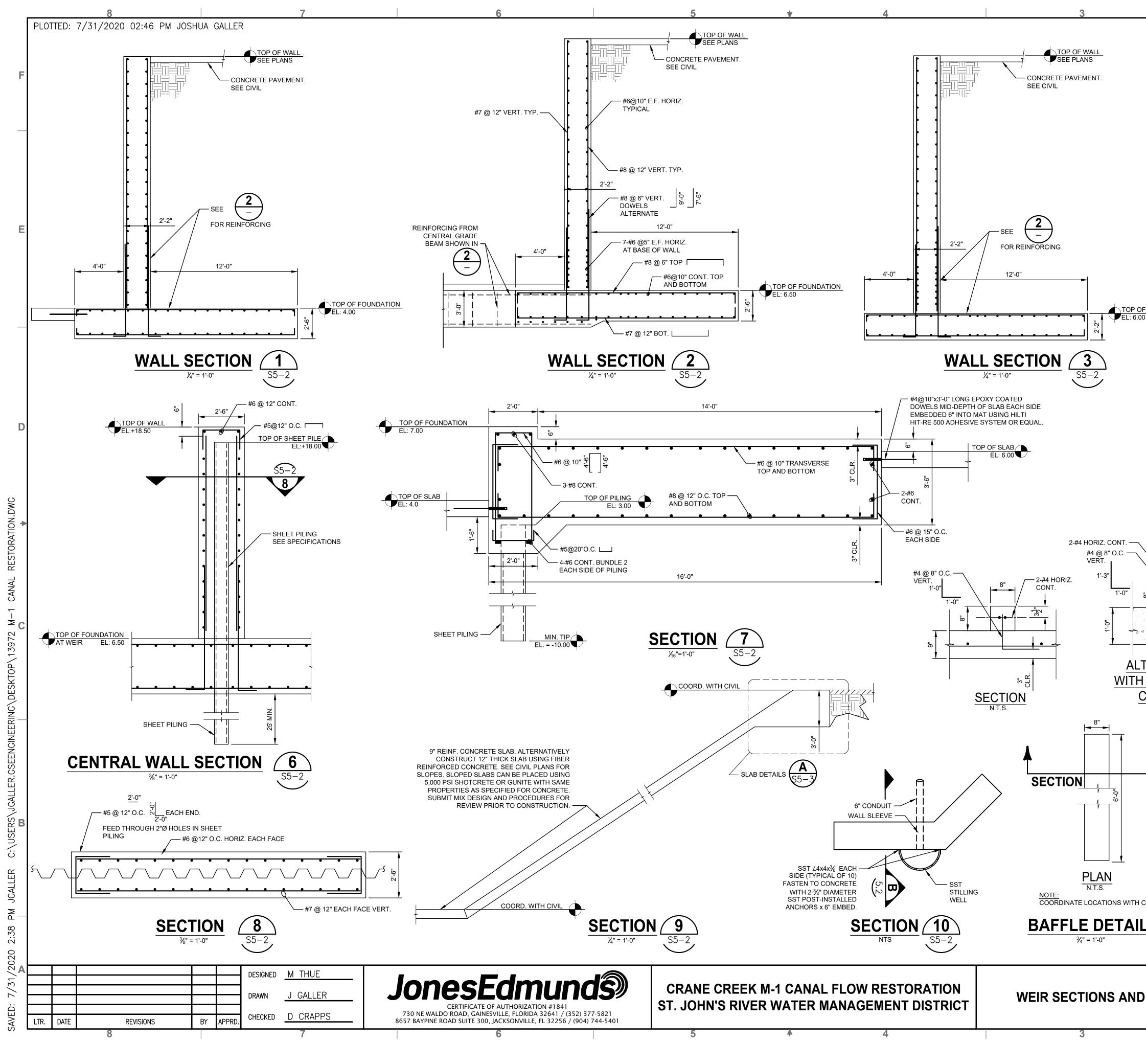
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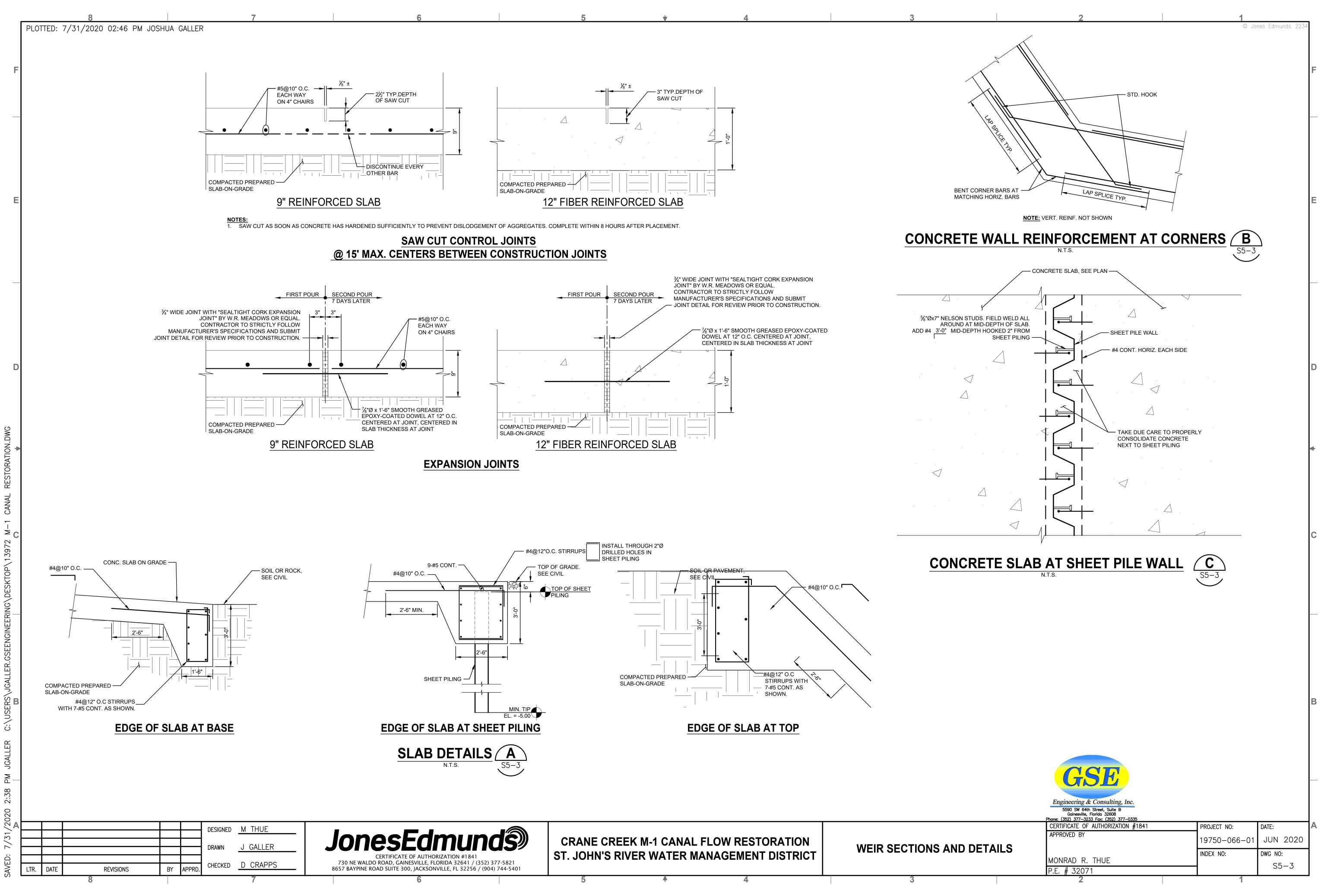


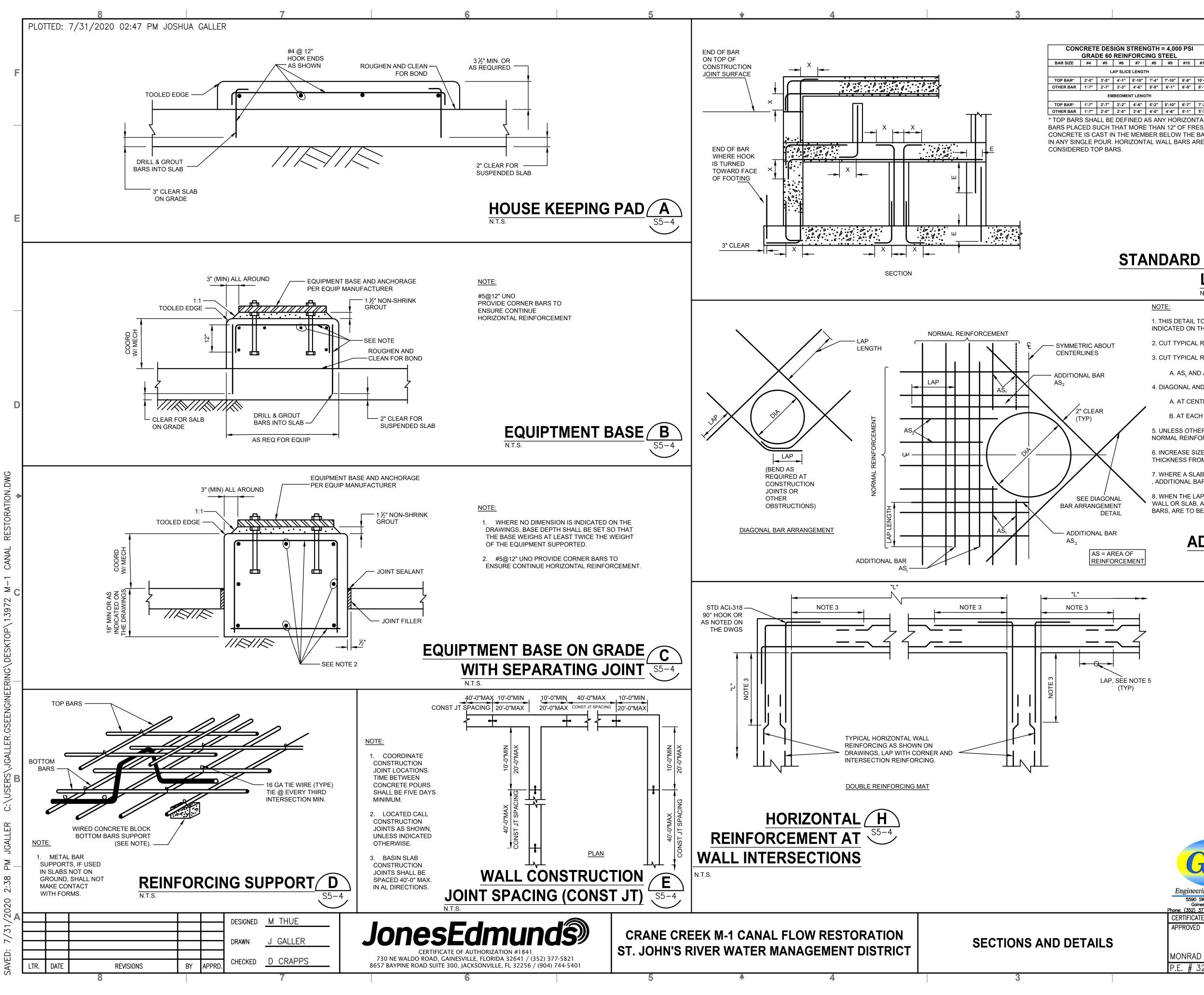
CONTROL TYPE CODES	
1. SILT FENCE	10. STC
2. EARTH DIKES	11. VEG
3. STRUCTURAL DIVISION	12. VEG
4. SWALE	13. RET
5. SEDIMENT TRAP	14. CO
6. CHECK DAM	15. PEF
8. PIPE SLOPE DRAIN	16. CU
9. LEVEL SPREADERS	17. PAV
9. LEVEL SPREADERS	18. RO





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			NCRETE PAVEMENT.		
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#6 @ 1	2" VERT. TYP.	#7 @ 12" VEF	RT. TYP.		
		/ #7 @ 6" VER	<u>.</u> .		Е
		DOWELS ALTERNATE 1'-8"			
SLOPED WALL		7'-0" <			
EL. VARIES		#7 @ 6" TOP		F FOUNDATION	
DF FOUNDATION 00				.50	
	#6@12" CONT. TOP — AND BOTTOM]	#6 @ 12" BOT		
	WALL SE ^{1/2} /4" = 1'-		4 ^{S5-2}		
		, CO	NCRETE PAVEMENT.		
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#5	@ 12" VERT. TYP.	• #6@12" E.F. I			D
		#6@12" E.F.1			
SLOPED WAL	4'-0"	1'-4" / #	6 @ 6" TOP	7	
EL. VARIES		4'-0"		DATION	
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\backslash	#6@12" CONT. TOP — AND BOTTOM	#5	@ 12" BOT. L		
8"	WALL S		5		
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	Œ		SST STILLING WEI	LL	С
	6" CONDUIT -				
TERNATE SECTION	WALL SLEEVE				
H FIBER REINFORCED	ANGLE BRACKE	S O O			
CONCRETE SLAB	EACH SIE				
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		3/4" = 1'-0"	S5-2		
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$\frac{\mathbf{L}}{S5-2} \underbrace{\mathbf{A}}_{Eng}$	ineering & Consulting, Inc.				
	5590 SW 64th Street, Suite B Gainesville, Florida 32608 352) 377–3233 Fax: (352) 377–0335				
CERT	IFICATE OF AUTHORIZATION #18	41	PROJECT NO:	DATE:	Α
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N	CRETI	E DES	IGN S	TREN	IGTH :	= 4,00	0 PSI	
	GRA	DE 60	REIN	FORC	ING S	TEEL		
	#4	#5	#6	#7	#8	#9	#10	#11
		L	AP SLICE	E LENGT	н			
	2'-0"	3'-5"	4'-1"	5'-10"	7'-4"	7'-10"	8'-8"	10'-5"
R	1'-7"	2'-7"	3'-3"	4'-6"	5'-8"	6'-1"	6'-9"	8'-1"
		EM	BEDMEN	NT LENG	тн			
	1'-7"	2'-7"	3'-2"	4'-6"	5'-2"	5'-10"	6'-7"	7'-3"
R	1'-7"	2'-0"	2'-5"	3'-6"	4'-0"	4'-6"	5'-1"	5'-7"

* TOP BARS SHALL BE DEFINED AS ANY HORIZONTAL BARS PLACED SUCH THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE BAR IN ANY SINGLE POUR. HORIZONTAL WALL BARS ARE

NOTE:

1. CONTINUOUS WATERSTOP, AS SPECIFIED, SHALL BE INSTALLED IN ALL CONSTRUCTION JOINTS IN WALLS OF WATER HOLDING BASINS AND CHANNELS, EXCEPT WHERE INDICATED OTHERWISE

2. WHEN BARS OF DIFFERENT SIZES ARE LAP SPLICED, LAP LENGTH SHALL BE THE LARGER OF:

EMBEDMENT LENGTH OF LARGER BARS LAP LENGTH OF SMALLER BAR

3. UNLESS NOTED, BARS SHALL EXTEND AN EMBEDMENT LENGTH "E" INTO ANOTHER MEMBER OR ACROSS A CONSTRUCTION JOINT UNLESS SHOWN TO SPLICE WITH OTHER BARS OR TO EXTEND TO THE FAR FACE OF THE MEMBER AND END WITH A STANDARD HOOK AS DESIGNATED BY "X".N

STANDARD 90 BAR HOOKS, EMBEDMENT LENGTHS, AND LAP LENGTHS

NOTE:

N.T.S.

1. THIS DETAIL TO BE USED AT AL CIRCULAR OPENINGS EXCEPT WHEN OTHER DETAILING IS INDICATED ON THE DRAWINGS.

2. CUT TYPICAL REINFORCEMENT 2" CLEAR OF OPENING.

3. CUT TYPICAL REINFORCEMENT AT OPENINGS:

A. AS₁ AND AS₂ = $\frac{1}{2}$ AREA OF TOTAL CUT PARS TO BE ADDED ON EACH SIDE OF OPENING. 4. DIAGONAL AND ADDITIONAL BARS AS₁ AND AS₂ TO BE PLACED.

A. AT CENTERLINE OF WALLS OR SLABS WHERE ON LAYER OF REINFORCEMENT IS PROVIDED.

B. AT EACH FACE OF WALLS OR SLABS WHERE TWO LAYERS REINFORCEMENT ARE PROVIDED

5. UNLESS OTHERWISE NOTED, SIZE OF DIAGONAL BARS SHALL BE THE SIZE OF THE LARGEST NORMAL REINFORCING BAR CUT.

6. INCREASE SIZE OF ADDITIONAL BARS AS NEEDED TO FIT WITHIN A DISTANCE OF 2X /SLAB THICKNESS FROM OPENING, PROVIDE 2" MIN CLEAR BETWEEN BARS.

7. WHERE A SLAB OR INTERSECTING WALL CONNECTS WITHIN ON WALL THICKNESS OF THE OPENING ADDITIONAL BARS ON THAT SIDE OF THE OPENING MAY BE OMITTED.

8. WHEN THE LAP LENGTH OF THE ADDITIONAL BARS CANNOT BE ACHIEVED DUE TO AN ADJACENT WALL OR SLAB, ADDITIONAL CORNER BARS OR SLAB DOWELS, RESPECTIVELY, MATCHING THE CUT BARS, ARE TO BE INCLUDED IN THE ADJACENT WALL OR SLAB TO LAP WITH THE ADDITIONAL BARS.

ADDITIONAL REINFORCEMENT	G
AT CIRCULAR OPENINGS	
N.T.S.	\smile

NOTE:

1. TYPICAL HORIZONTAL WALL CORNER AND INTERSECTION REINFORCING LAYOUT IS SHOWN TO AVOID CONGESTION AND PERMIT PROPER PLACEMENT, FOR SIZE AND SPACING SEE PLAN. ALL HORIZONTAL REINFORCING AT CORNERS AND INTERSECTIONS SHALL BE FABRICATED AND INSTALLED WITH SPLICES LOCATED WHERE SHOWN REGARDLESS OF BAR SIZE AND SPACING.

2. WHERE THE CORNER OR INTERSECTION REINFORCING SIZE AND SPACING IS NOT SHOWN, NOTED OR TABULATED ON THE PLANS, THE SIZE AND SPACING SHALL BE THE SAME AS THE WALL HORIZONTAL REINFORCING SHOWN ON THE WALL SECTIONS OR AS NOTED FOR THE REINFORCING BETWEEN THE CORNERS OR INTERSECTIONS.

3. EXCEPT WHERE OTHERWISE SHOWN ON THE DRAWINGS. THE LENGTH INDICATED AS "NOTE 3" SHALL BE THE LESS OF L/4. 10 FEET, OR 1.0 TIMES THE HEIGHTS OF THE WALL, EXCEPT THAT IN NO CASE SHALL IT BE LESS THAN 2 FEET.

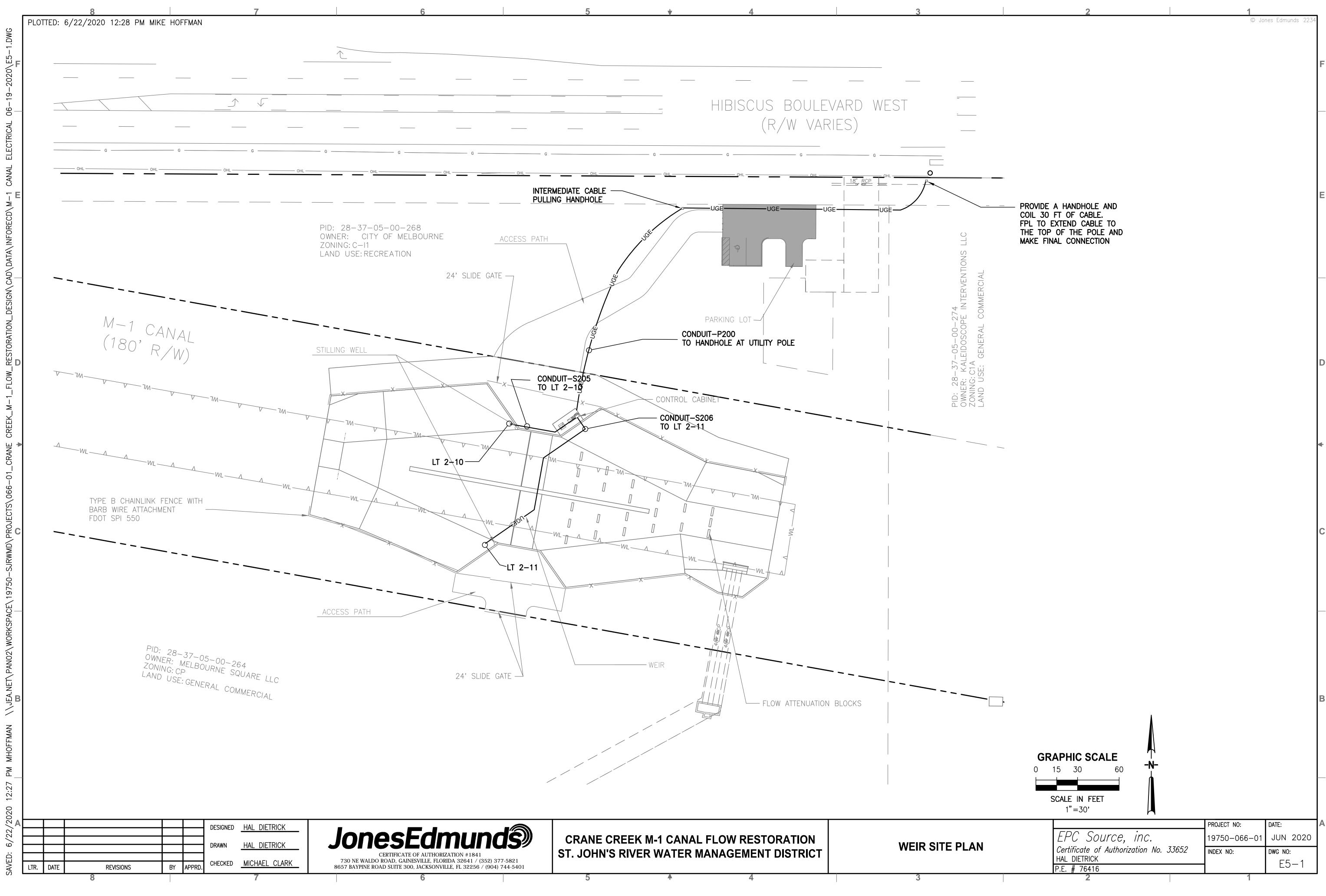
4. L = LENGTH OF WALL PARALLEL TO THE BAR LENGTH IN QUESTION.

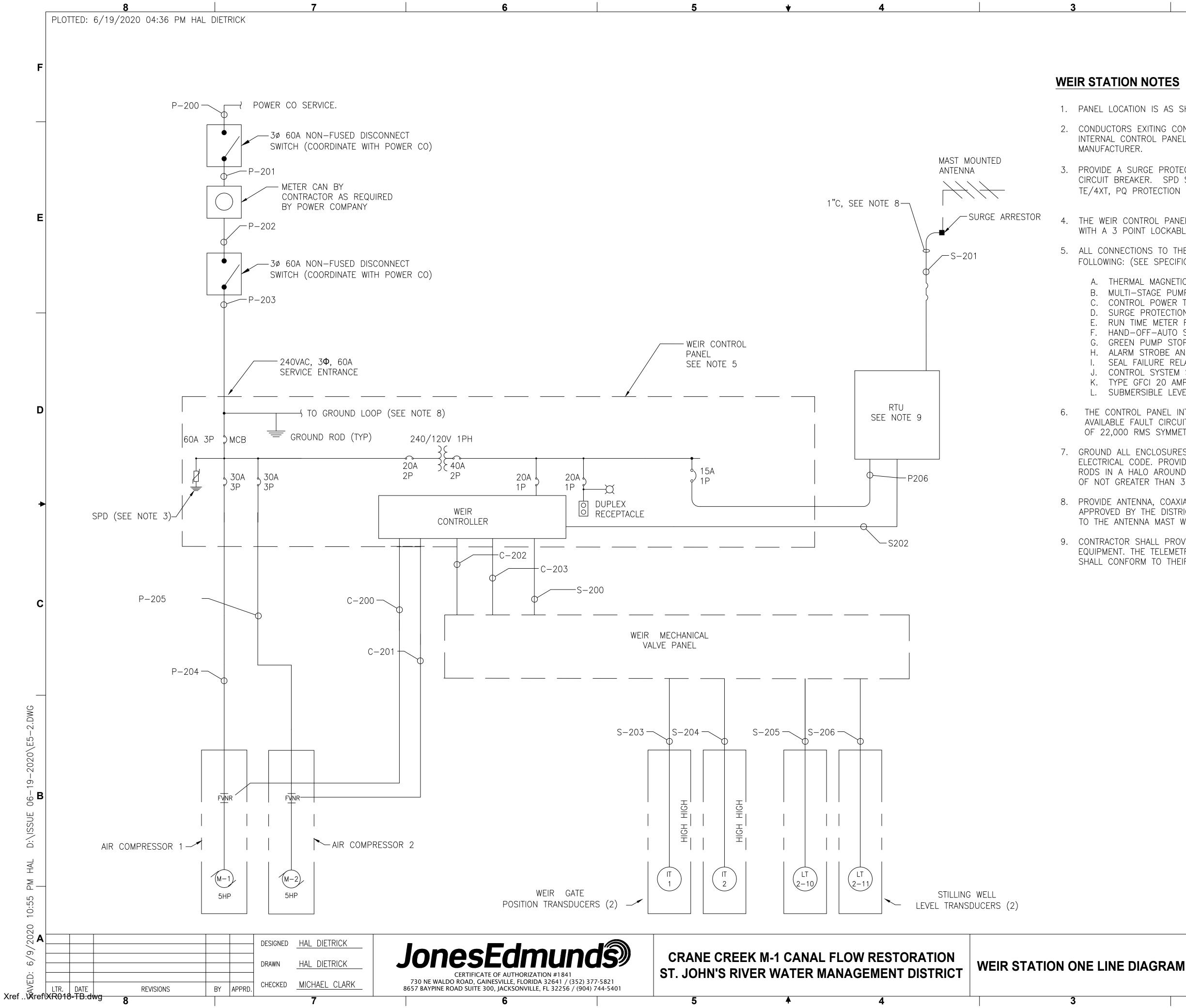
5. EXCEPT WHERE OTHERWISE SHOWN ON THE DRAWINGS, THE LENGTH INDICATED AS "NOTE 5" SHALL BE EQUAL TO ONE "LAP LENGTH" AS REQUIRED BY THE GENERAL STRUCTURAL NOTES. USE THE LAP LENGTH AS REQUIRED FOR THE SMALLER OF THE TWO REINFORCING BARS BEING SPLICED.



Engineering & Consulting, Inc 5590 SW 64th Street, Suite B

Gainesville, Florida 32608 Phone: (352) 377-3233 Fax: (352) 377-0335			
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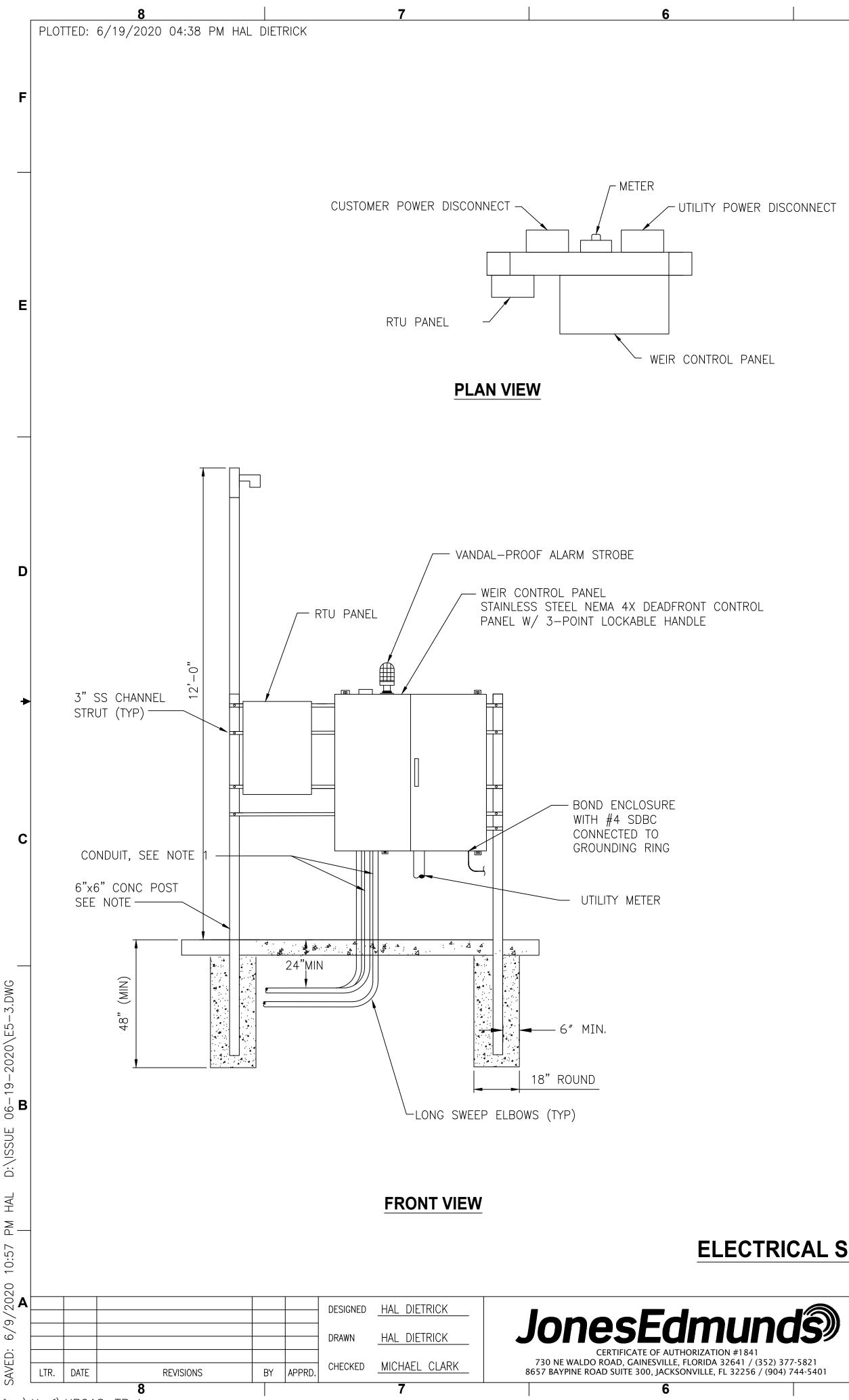




1. PANEL LOCATION IS AS SHOWN ON THE PLANS.

- 2. CONDUCTORS EXITING CONTROL PANEL SHALL BE TYPE THWN INSULATED COPPER. INTERNAL CONTROL PANEL WIRING SHALL BE TYPE MTW OR AS REQUIRED BY THE
- 3. PROVIDE A SURGE PROTECTION DEVICE (SPD) ON THE LOAD SIDE OF THE MAIN CIRCUIT BREAKER. SPD SHALL BE AN ADVANCED PROTECTION TECHNOLOGIES TE/4XT, PQ PROTECTION PQC100, OR APPROVED EQUAL.
- 4. THE WEIR CONTROL PANEL ENCLOSURE SHALL BE NEMA 4X STAINLESS STEEL FITTED WITH A 3 POINT LOCKABLE LATCH AND DEAD FRONT PANEL.
- 5. ALL CONNECTIONS TO THE THE PANEL SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING: (SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS)
 - A. THERMAL MAGNETIC CIRCUIT BREAKERS INDICATED. B. MULTI-STAGE PUMP CONTROL SYSTEM (SEE SPECIFICATION) CONTROL POWER TRANSFORMERS, AS REQUIRED. D. SURGE PROTECTION DEVICE. RUN TIME METER FOR EACH PUMP. HAND-OFF-AUTO SELECTOR SWITCH FOR EACH PUMP. GREEN PUMP STOP, RED PUMP RUN LIGHTS FOR EACH PUMP. ALARM STROBE AND HORN WITH SILENCE SWITCH. SEAL FAILURE RELAY WITH INDICATING LIGHT FOR EACH PUMP. CONTROL SYSTEM SHALL BE 120 VOLT. K. TYPE GFCI 20 AMP, 125 VOLT DUPLEX RECEPTACLE. L. SUBMERSIBLE LEVEL TRANSMITTER CONTROL.
- 6. THE CONTROL PANEL INTEGRATED INTERRUPT RATING SHALL BE EQUAL TO THE AVAILABLE FAULT CIRCUIT CURRENT AT THE POINT OF INSTALLATION WITH A MINIMUM OF 22,000 RMS SYMMETRICAL AMPS.
- 7. GROUND ALL ENCLOSURES AND EQUIPMENT IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. PROVIDE LIGHTNING PROTECTION AND A MINIMUM OF 5 GROUND RODS IN A HALO AROUND THE EQUIPMENT AREA TO PROVIDE A GROUND RESISTANCE OF NOT GREATER THAN 3 OHMS.
- 8. PROVIDE ANTENNA, COAXIAL CABLE, ANTENNA MAST AND ALL APPURTENANCES AS APPROVED BY THE DISTRICT AND CONFORMING TO THEIR STANDARDS. SECURE CABLE TO THE ANTENNA MAST WITH STAINLESS STEEL CABLE TIES.
- 9. CONTRACTOR SHALL PROVIDE THE TELEMETRY SYSTEM RTU AND ALL REQUIRED SCADA EQUIPMENT. THE TELEMETRY SYSTEM SHALL BE AS APPROVED BY THE DISTRICT AND SHALL CONFORM TO THEIR STANDARDS.

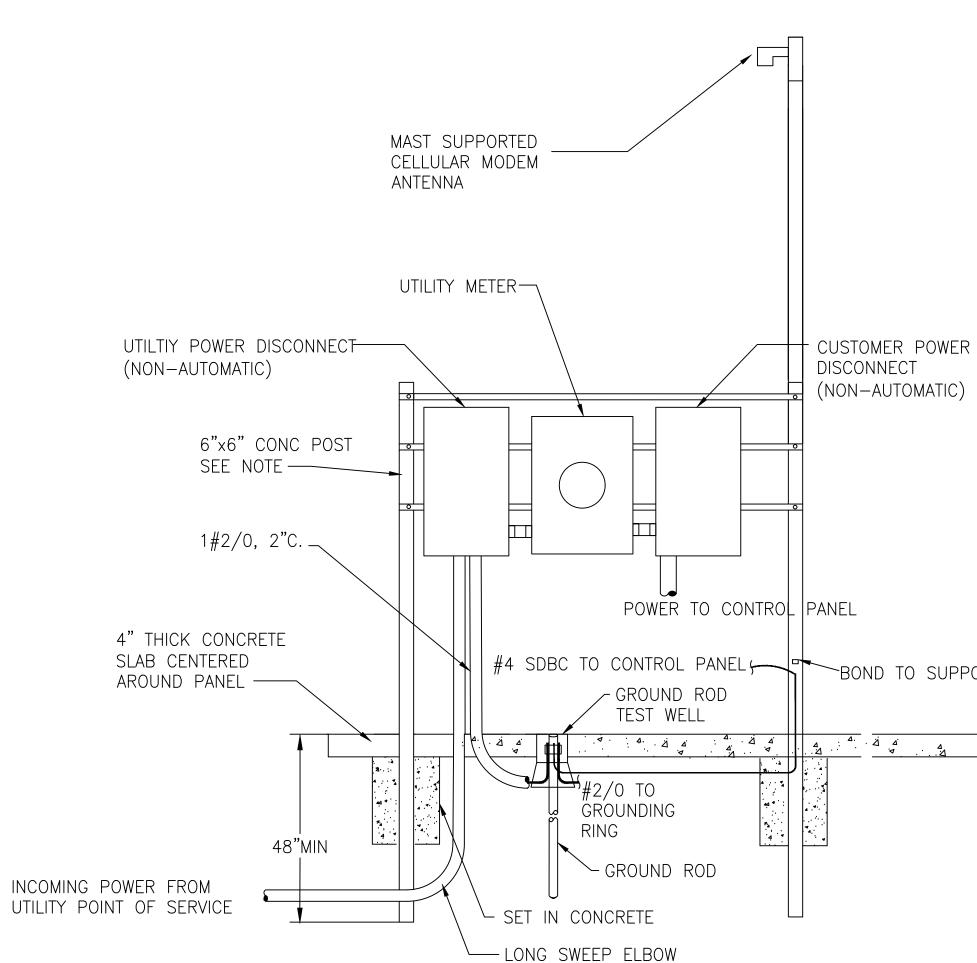
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HAL DIETRICK		F5-2
Certificate of Authorization No. 33652	INDEX NO:	DWG NO:
/	19750-066-01	JUN 2020
	PROJECT NO:	DATE:



UTILITY POWER DISCONNECT

NOTES:

- OTHER UNDERGROUND CONDUITS SHALL BE SCHEDULE 80 PVC.
- TRANSFER SWITCH, AND ANTENNA MANUAL DISCONNECT SWITCH, AND METAL FENCE.
- 4. ALL MOUNTING HARDWARE & BRACKETS SHALL BE 316 STAINLESS STEEL.
- 5. COAT PORTIONS OF ALUMINUM IN CONTACT WITH CONCRETE WITH COAL TAR EPOXY.



REAR VIEW

ELECTRICAL SERVICE AND CONTROL PANEL DETAIL 1 E-1 NTS **CRANE CREEK M-1 CANAL FLOW RESTORATION**

ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT

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EPC Source, inc. 19750-066-01 JUN 2020 Certificate of Authorization No. 33652 INDEX NO: DWG NO: WEIR STATION ELECTRICAL DETAILS HAL DIETRICK E5-3 P.E. # 76416

1. MOTOR CONDUIT SHALL BE SIZED TO MAX 40% CONDUIT FILL. MINIMUM CONDUIT SIZE SHALL BE 2 1/2". ABOVE GROUND CONDUITS SHALL BE PVC COATED RIGID GALVANIZED STEEL DOWN TO BELOW THE FIRST ELBOW BELOW GRADE. UNDERGROUND CONDUITS BETWEEN THE JUNCTION BOX AND WETWELL SHALL BE SCHEDULE 80 PVC ENCASED WITH A MINIMUM OF 2" OF CONCRETE. REFER TO NEC 501.10(A)(1)(a) AND THE EXCEPTION FOR THE INSTALLATION OF THESE CONDUITS. ANALOG SIGNAL CONDUITS SHALL BE PVC COATED RIGID GALVANIZED STEEL ABOVE AND BELOW GRADE. ALL

2. INSTALL AN ELECTRICAL GROUNDING SYSTEM IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AS WELL AS LOCAL CODES AND ORDINANCES. INSTALL AN UNDERGROUND PERIMETER CABLE GROUNDING SYSTEM WITH CONNECTIONS TO AT LEAST WET WELL COVER, VALVE VAULT COVER, CONTROL PANELS, GENERATOR, UTILITY COMPANY TRANSFORMER, AUTOMATIC

3. THE STATION NAME, PCU I.D. NUMBER, AND ADDRESS SHALL BE AFFIXED TO THE FRONT OF THE METER CABINET.

CUSTOMER POWER DISCONNECT (NON-AUTOMATIC)

-BOND TO SUPPORT POST

DATE:

PROJECT NO: