CONSTRUCTION PLANS

FOR

SEWRF RECLAIMED PUMP BACK STATION & SEWRF ARC FLASH MITIGATION

MANATEE COUNTY, FLORIDA

MARCH 2020

MANATEE COUNTY PROJECT #6088380/6097680



PROJECT TEAM:

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KIMLEY-HORN AND ASSOCIATES, INC. 100 2ND AVENUE SOUTH, SUITE 105N ST. PETERSBURG, FL 33701 CONTACT: STEPHEN N. ROMANO, P.E.

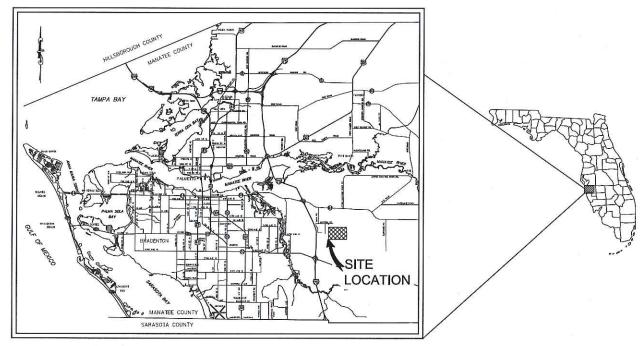
ELECTRICAL: TRICON ENGINEERING 777 S. HARBOUR ISLAND BLVD. SUITE 870 735 LAKEVIEW DRIVE TAMPA, FL 33602 WMAUMA, FLORIDA 3. 813-227-9190

HYATT SURVEY SERVICES INC., 11007 8TH AVENUE EAST BRADENTON, FLORIDA 34212 CONTACT: JOHN MATTHEWS

941-748-4693

ARDAMAN & ASSOCIATES 3925 COCONUT PALM DRIVE TAMPA, FLORIDA 33619 CONTACT: ROSS T. MCGILLIVRAY, P.E.

ECOLOGY: QUEST ECOLOGY INC. WIMAUMA, FLORIDA 33598 813-765-6209

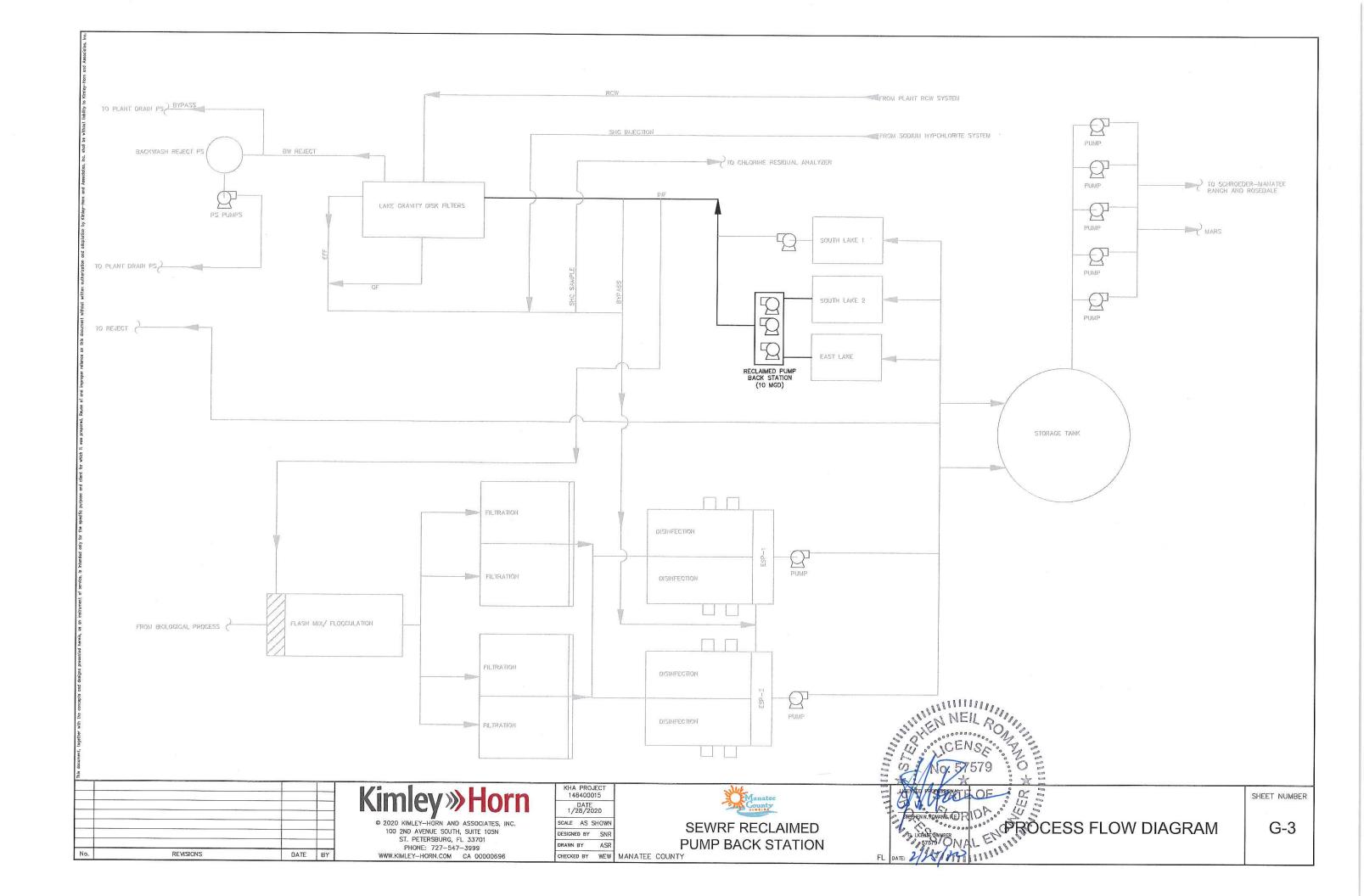


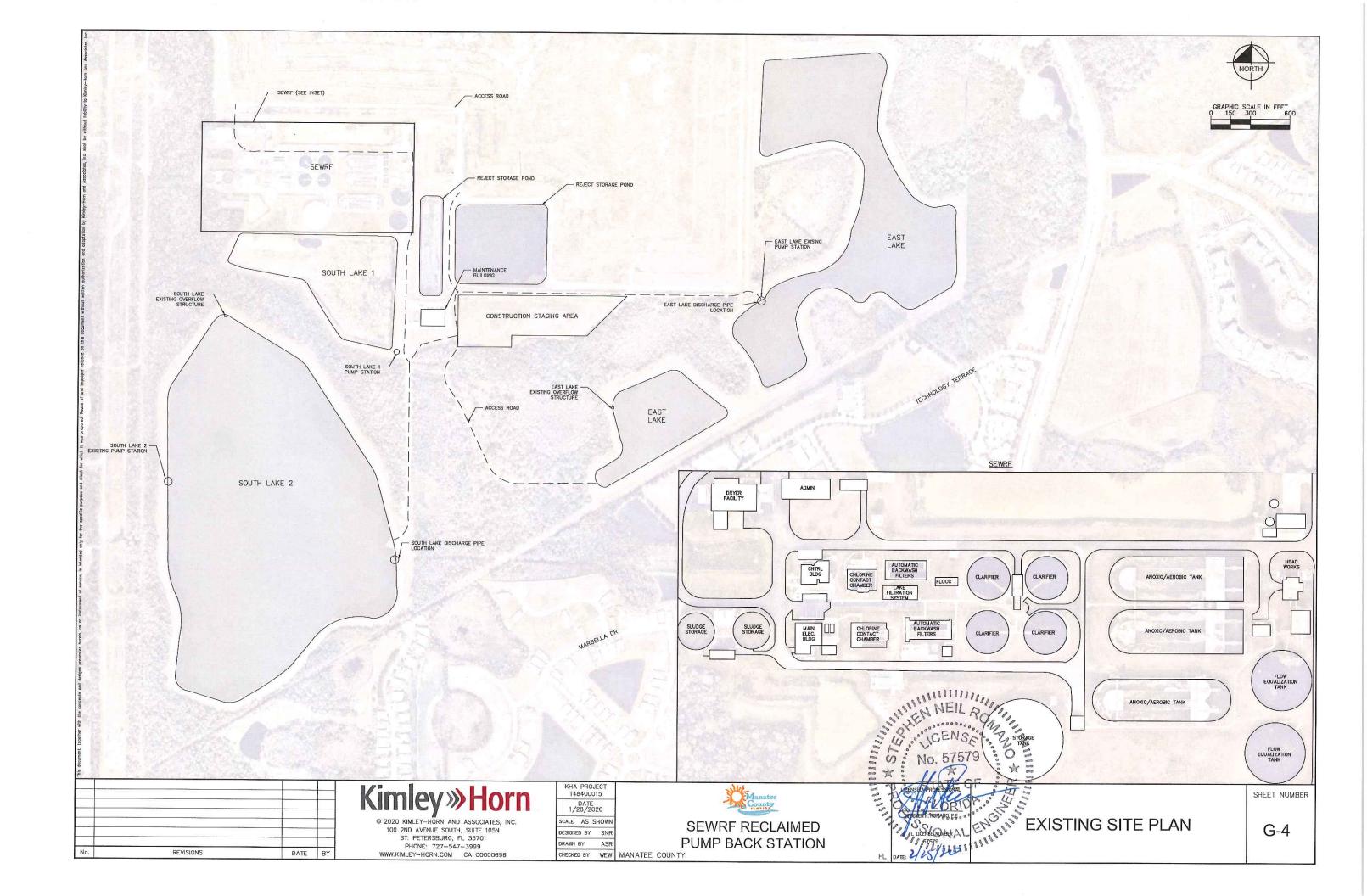
PROJECT VICINITY MAP

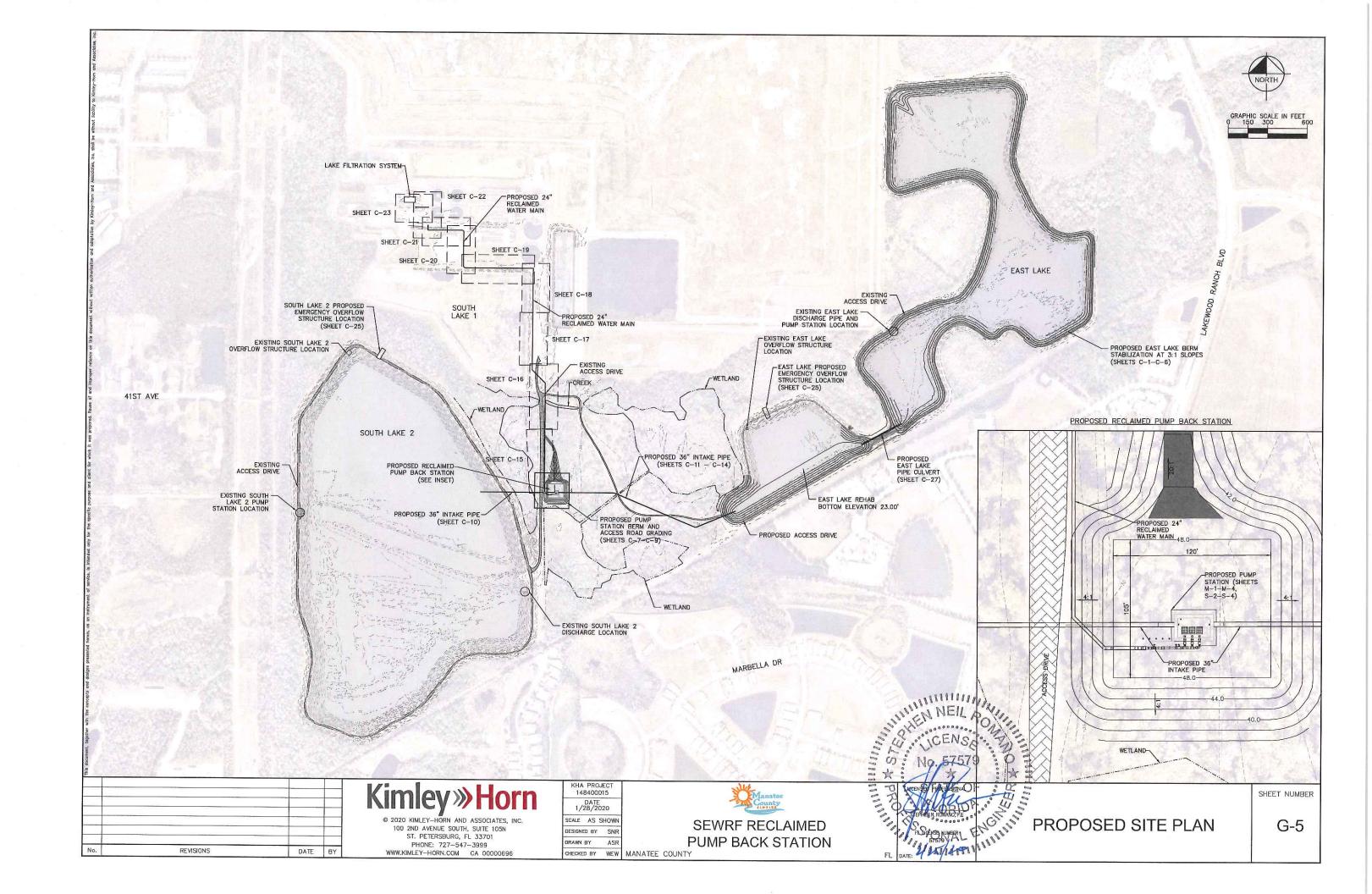
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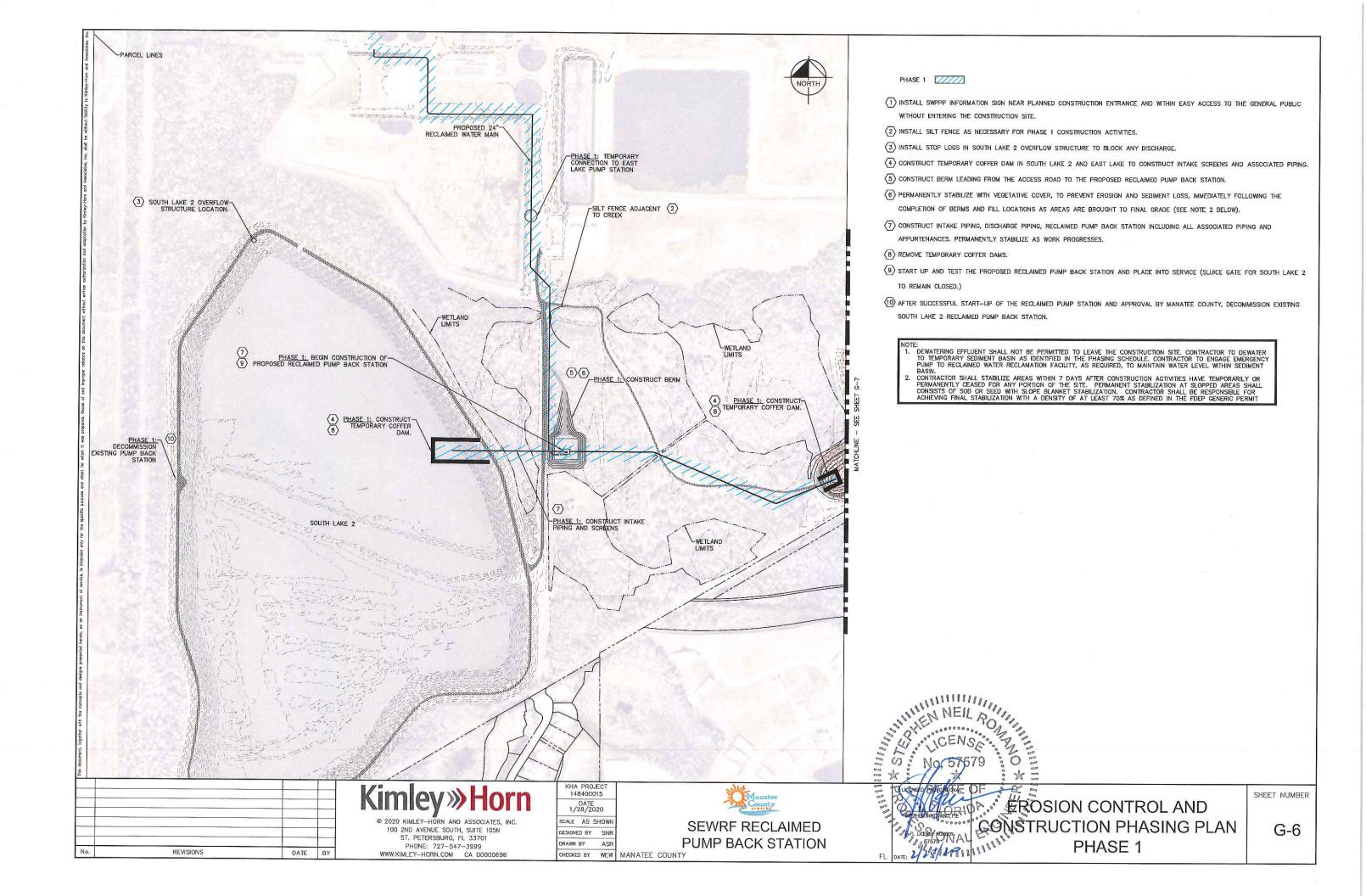
PREPARED BY Kimley » Horn

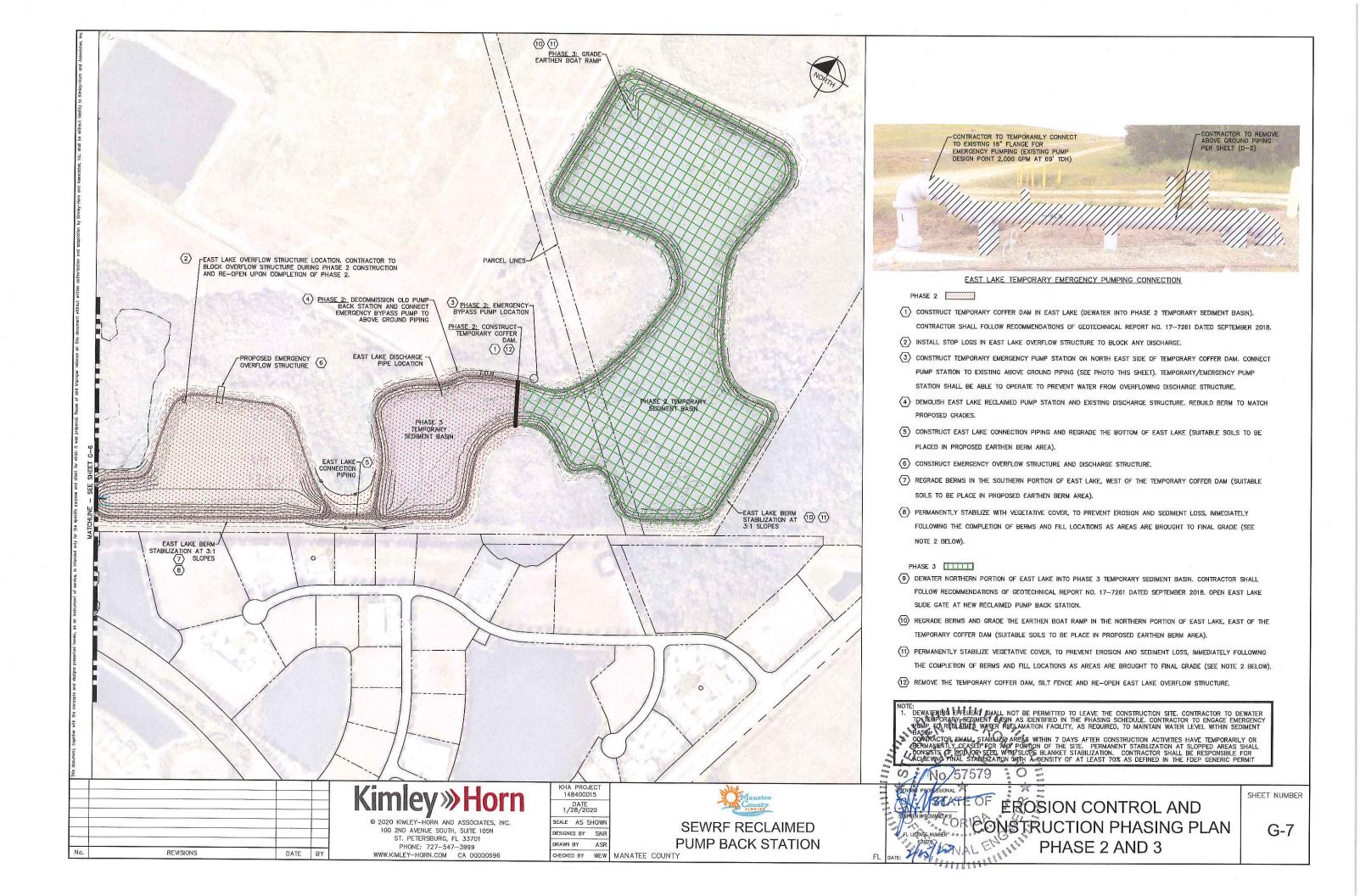
DISCIPLINE	Sheet Number	Sheet Title				GENERAL NOTES	* %		EARTHWORK NO	TES	6
ciate	G-1	COVER SHEET	SURVEY LEGEND			<u>94.14.1116 110 120</u>			LANTIMONN NO	/ILS	
Asso	G-2	DRAWING INDEX AND GENERAL NOTES				 THESE PLANS ARE SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE EXISTING CONDITIONS WHICH MAY BE 	OF THE STAGING AREA.			MATERIAL SHALL BE REMOVED FR	
P 8	G-3 G-4	PROCESS FLOW DIAGRAM	O IRON PIPE	_ SIGN	Elis	ENCOUNTERED DURING THE COURSE OF WORK, CONTRACTORS ARE DIRECTED.	25. THE CONTRACTOR SHALL COORDINATE THE	STAGING AREA WITH THE OWNER.	CONSTRUCTING TH	H THE OWNER'S REQUIREMENTS E HE PROPOSED IMPROVEMENTS TO	THE PROPOSED GRADES
E GENERAL	G-5	EXISTING SITE PLAN PROPOSED SITE PLAN	■ IRON ROD W/ CAP	UTILITY POLE	SAS OAK	PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATION NECESSARY TO DETERMINE THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED.	THERE MAY BE MULTIPLE PROJECTS UNDER AND IT WILL BE THE CONTRACTOR'S RESPON		SHALL BE RETAIN	ED BY THE CONTRACTOR.	
-kaj	G-6	EROSION CONTROL AND CONSTRUCTION PHASING PLAN PHASE 1	● PK NAIL W/ DISC	← GUY WIRE		2. LOCATION, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES.	AREA FOR THE STORAGE AND STACING OF	EQUIPMENT, INCLUDING BUT NOT	2. THE CONTRACTOR	SHALL INSTALL BARRICADES OF E OWNER'S REPRESENTATIVE TO	OTHER SYSTEMS
Kin	G-7	EROSION CONTROL AND CONSTRUCTION PHASING PLAN PHASE 2 AND 3		□ WATER METER	PALM	AND OTHER FEATURES ARE SHOWN TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS BUT DO NOT PURPORT TO	NECESSARY TO SECURE THE AREA.	HIONAL HEMS HAI MAI DE	TO REMAIN. IF TR	EES NEED TO BE REMOVED, THE	CONTRACTOR SHALL
t / 1	G-8	EROSION CONTROL AND SEDIMENTATION DETAILS	CONCRETE MONUMENT	S SANITARY MANHOLE	2	BE ABSOLUTELY CORRECT. THE CONTRACTOR SHALL VERIFY, PRIOR TO CONSTRUCTION, THE LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ALL	SURVEY NOTES		ASSOCIATED PERM	ALTTING FEES SHALL BE BORNE B	THE CONTRACTOR AND
DEMOLITION	D-1	OVERALL DEMOLITION PLAN	R/W RIGHT-OF WAY	STORM MANHOLE		EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES (WHETHER OR NOT	SORVET NOTES		(IF REQUIRED) TH	THE SCOPE OF WORK. THE COST E TREES SHALL BE BORNE BY TH	TO REMOVE AND REPLAC HE CONTRACTOR.
tig and the state of the state	D-2	EAST LAKE PUMP STATION DEMOLITION PLAN	PID PARCEL IDENTIFICATION	MAILBOX	28/Kr	SHOWN ON THE PLANS) AFFECTING HIS WORK.	1. THE FOLLOWING VERTICAL CONTROL MONUMER	ITS WEDE DECOVERED AND LITHIUM			
o alt	C-1	EAST LAKE REHABILITATION PLAN	PB PLAT BOOK		TREE	 THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS ON THE PLANS AND REVIEW ALL FIELD CONDITIONS THAT MAY AFFECT 	FOR THE ELEVATIONS INDICATED HEREIN:		AFFECTED BY THE	E ROOTS GREATER THAN 1-INCH CONTRACTOR'S ACTIVITIES WITH	IN DIAMETER THAT ARE IN THE DRIP-LINE OF THE
다 다	C-2	EAST LAKE REHABILITATION CURVE TABLES	CB CONDOMINIUM BOOK	☆ LIGHT POLE	(Kr	CONSTRUCTION, SHOULD DISCREPANCIES OCCUR, THE CONTRACTOR SHALL	1.1. COORDINATES- N: 1138264.41 E: 51349		TREE SHALL BE S	SAWED WITH A CLEAN CUT.	or me
-	C-3 C-4	EAST LAKE REHABILITATION SECTIONS EAST LAKE REHABILITATION SECTIONS	ORB OFFICIAL RECORD BOOK	FIRE HYDRANT	JANUARY SUE	NOTIFY THE ENGINEER TO OBTAIN THE ENGINEERS CLARIFICATION BEFORE COMMENCING.	2. THIS SURVEY IS REFERENCED TO A PROJECTI	ON OF THE FLORIDA STATE PLANE	4. THE CONTRACTOR	SHALL PROVIDE ALL SHEETING,	SHORING, AND BRACING
Ē d	C-5	EAST LAKE REHABILITATION SECTIONS	PG PAGE	-O- BACKFLOW PREVENTER	TEST HOLE	4. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, STORM	COORDINATE SYSTEM (WEST ZONE NAD 1983)		WIDTHS, WHEN A	TECT ADJACENT STRUCTURES OF SEPARATE PAY ITEM IS NOT PRO	OVIDED, THE COST OF ALL
ciate	C-6	EAST LAKE REHABILITATION SECTIONS	MORNALL AND MORNEY CONTACT AND AND THE RESIDENCE		_	 THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, STORM DRAINS, SEVERS, UTILITIES, AND OTHER FACULIES IN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL REPAIR ANY DAMAGES DUE TO HIS 	 THIS IS NOT A BOUNDARY OR MEAN HIGH WA PROVIDED. 	ATER SURVEY, TITLE WORK WAS NOT	SHEETING, SHORIN	IG AND BRACING REQUIRED SHAL FOR THE ITEM OF WORK FOR WH	L BE INCLUDED IN THE
Asso	C-7	PUMP STATION GRADING PLAN	BM SITE CONTROL POINT	 BOLLARD 	MAY SUE TEST HOLE	CONSTRUCTION.	4. THIS SURVEY IS SUBJECT TO PERTINENT EAS	EMENTS, RIGHTS-OF-WAY AND	AND BRACING IS	ANTICIPATED TO BE REQUIRED IN	ACCORDANCE WITH THE
Pun	C-8	PUMP STATION GRADING SECTIONS	P/O PORTION OF	FLAG POLE		5. WHERE IT IS NECESSARY TO DEFLECT PIPE EITHER HORIZONTALLY OR	RESTRICTIONS OF RECORD, IF ANY.		TRENCH SAFETY		10 T
Ę.	C-9	PUMP STATION GRADING SECTIONS	SITE BENCHMARK	A IRRICATION DOV		VERTICALLY, PIPE JOINT DEFLECTION SHALL NOT EXCEED 75% OF THE MANUFACTURERS' MAXIMUM RECOMMENDED DEFLECTION.	5. THIS SURVEY DRAWING WAS PREPARED FOR	THE EXCLUSIVE USE OF THE PARTY	RESTURATION A	ND MISCELLANEOUS N	<u>IOTES</u>
-de y-	C-10	PLAN & PROFILE - SOUTH LAKE 2 INTAKE PIPING		✓ IRRIGATION BOX			OR PARTIES CERTIFIED TO BELOW FOR THE E AND/OR CONTAINED IN THE CONTRACT BETW	EEN HYATT SURVEY SERVICES, INC.	1. ALL RESTORATION	WORK PERFORMED THROUGHOUT	THE PROJECT SHALL
y Ken	C-11	PLAN & PROFILE EAST LAKE INTAKE PIPING	SITE LEGEND			 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE EXISTING DRAINAGE SYSTEM WITHIN THE LIMITS OF THE PROJECT AREA FOR 	AND THE CLIENT FOR THIS PROJECT. COPYING THIS DRAWING, IN WHOLE OR IN PART FOR A	3, DISTRIBUTING AND/OR USING	CONFORM TO EXIS	STING LINES AND GRADES UNLESS	S OTHERWISE NOTED.
E .	C-12	PLAN & PROFILE - EAST LAKE INTAKE PIPING	·	EXISTING	PROPOSED	THE DURATION OF THE PROJECT.	ORIGINALLY INTENDED WITHOUT WRITTEN CONS	SENT FROM HYATT SURVEY	2. THE CONTRACTOR CONSTRUCTED IN	SHALL PROVIDE AN ASPHALT PA EXISTING ROADWAYS. ADJUST A	ATCH FOR TRENCH AREAS
ptati	C-13 C-14	PLAN & PROFILE - EAST LAKE INTAKE PIPING	CONCRETE SIDEWALK/			 THE CONTRACTOR SHALL PROVIDE CERTIFIED RECORD DRAWINGS AS OUTLINED IN THE SPECIFICATIONS. RED—LINE DRAWINGS SHALL BE CURRENT WITH EACH PAY APPLICATION SUBMITTED AND WILL BE CHECKED AS PART OF THE PAY 	SERVICES, INC. IS STRICTLY PROHIBITED AND CERTIFICATION, SIGNATURE AND SEAL NULL A	ND VOID, ANY QUESTIONS	NEW PAVEMENT S	URFACE.	EL CASINGS TO MATCH
E CIVII	C-15	PLAN & PROFILE — EAST LAKE INTAKE PIPING PLAN & PROFILE — DISTRIBUTION PIPING	FLOWABLE FILL		Market Mills	PAY APPLICATION SUBMITTED AND WILL BE CHECKED AS PART OF THE PAY	CONCERNING THE CONTENT OR PURPOSE OF TO HYATT SURVEY SERVICES, INC.	THIS DRAWING SHOULD BE DIRECTED	3. THE CONTRACTOR	SHALL REPLACE ALL EXISTING P	AVING, STABILIZED EARTH,
E LINE	C-16	PLAN & PROFILE — DISTRIBUTION PIPING	Netwicks-Mark		1	APPLICATION REVIEW PROCESS, PAYMENT WILL NOT BE MADE TO CONTRACTOR WITHOUT APPROVED RED—LINE DRAWNIGS. THE MOST CURRENT SET OF DEPLAY AND THE PROCESS.	UTILITY NOTES		THE SAME OR BE	S, FENCES, LANDSCAPING, AND C TTER TYPE AND QUANTITY OF MA	ATERIAL THAT WAS
action	C-17	PLAN & PROFILE - DISTRIBUTION PIPING	ASPHALT			SET OF RED-LINE DRAWINGS SHALL ALSO BE BROUGHT TO EACH MONTHLY PROGRESS MEETING.				CONSTRUCTION OR AS DIRECTED	BY THE ENGINEER.
thoris	C-18	PLAN & PROFILE — DISTRIBUTION PIPING				8. FIELD CONDITIONS MAY NECESSITATE ALIGNMENT AND GRADE DEVIATION OF	 THE CONTRACTOR SHALL BE RESPONSIBLE FO JURISDICTIONAL BODIES AND UTILITY COMPANI 	R COORDINATING WITH THE FOLLOWING	4. ALL EXISTING FEN	CES DISTURBED DURING CONSTRU REINSTALLED BY THE CONTRAC	JOTION SHALL BE REPAIRED
8	C-19	PLAN & PROFILE — DISTRIBUTION PIPING	FENCE		xx	THE PROPOSED PIPELINES TO AVOID CONFLICTS. NO ADDITIONAL PAYMENT SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND THE	MANATEE COUNTY PUBLIC WORKS	V.	COST TO THE OW	NER UNLESS SHOWN TO BE REMO	OVED ON CONSTRUCTION
aritte	C-20	PLAN & PROFILE — DISTRIBUTION PIPING			10000	OWNER'S ENGINEER.	ANTHONY BENITEZ, P.E. 1022 26TH AVENUE EAST		PLANS.		
2 2	C-21	PLAN & PROFILE — DISTRIBUTION PIPING	and the second s			 IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROPERLY DISPOSE OF ALL WASTEWATER, SLUDGE, AND GRIT WITHIN ALL PIPES TO BE DEMOLISHED, 	BRADENTON, FL 34208—3916 (941) 708—7450 EXT. 7333		 CONTRACTOR SHA PRE—CONSTRUCTION 	LL RESTORE ALL IRRIGATION SYS ON CONDITIONS,	TEM COMPONENTS TO
ŧ	C-22	PLAN & PROFILE — DISTRIBUTION PIPING	TO BE DEMOLISHED	11111		ALL WASTEWATER, SLUDGE, AND GRIT WITHIN ALL PIPES TO BE DEMOLISHED, REMOVED, OR CONNECTED TO.			6. ALL DISTURBED G	RASSED AREAS SHALL BE RESTO	RED WITH SOO IN LIKE
men	C-23 C-24	PLAN & PROFILE — DISTRIBUTION PIPING EAST LAKE ENERGY DISSIPATION STRUCTURE					SOUTHEAST REGIONAL WASTEWATER TREATMENT PLANT		KIND UNLESS OTH	ERWISE DIRECTED BY OWNER. CO	NTRACTOR SHALL ROLL
8	C-25	OVERFLOW STRUCTURES	SILT FENCE -			10. ALL PROPOSED WORK SHALL BE COORDINATED WITH WASTEWATER TREATMENT PLANT PERSONNEL AND MANATEE COUNTY UTILITIES DEPARTMENT A LEAST TWO WEEKS IN ADVANCE OF PROPOSED.	VICTOR BOUCHER, CHIEF OPERATOR LENA ROAD		ALL SUDDED AREA	15.	
g £	C-26	EAST LAKE EARTHEN BOAT RAMP	To the second se	· V V V · · · · · · · · ·		DEPARTMENT AT LEAST TWO WEEKS IN ADVANCE OF PROPOSED CONSTRUCTION.	BRADENTON, FL 34210		7. CONCRETE SIDEWA INCHES OF 3,000	LKS ACROSS DRIVEWAYS SHALL PSI CONCRETE WITH W2.5 X W2.5	BE RESTORED WITH 6 5, 6X6 WIRE MESH. PLACE
8	C-27	EAST LAKE CULVERT	MILL & SURFACE	13.77 11.77		11. THE CONTRACTOR SHALL FURNISH SHOP DRAWINGS PER SPECIFICATION	(941) 792-8811 EXT. 8028		1/2 INCH EXPANSIO	N JOINT BETWEEN BACK OF CURI ESTORATION SHALL BE MECHANIC	B AND NEW CONCRETE.
ance	C-28	CIML DETAILS	GRAVEL	282888888		SECTION 01340 TO THE ENGINEER FOR REVIEW OF ALL PIPE CONNECTIONS, TRANSITIONS, AND SPECIAL APPURTENANCES PRIOR TO FABRICATION OR DELIVERY TO THE LOB SITE.	 ALL UTILITY CONSTRUCTION SHALL BE IN CON VERSION OF THE MANATEE COUNTY UTILITY S' 	FORMANCE WITH THE LATEST	PLACING CONCRET		THE LO THINK TO
5	C-29	CIVIL DETAILS	GRAVEL			DELIVERY TO THE JOB SITE.	SPECIFIED.	INNUANDA, UNLESS OTTERMISE	8. CONCRETE SIDEWA	LKS OUTSIDE OF DRIVEWAYS SHA	ALL BE RESTORED WITH 4
bud	M-1	CENTRAL PUMP STATION PLAN	WETLAND BUFFER	+ + + + + + +		12. CONNECTIONS TO EXISTING FACILITIES SHALL BE ACCOMPLISHED IN A NEAT	3. ALL VALVE BOX COVERS SHALL BE PAINTED T	O INDICATE THEIR TYPE OF	522 & 310.	PSI CONCRETE PER FDOT DESIGN	STANDARDS, SECTIONS
E	M-2	CENTRAL PUMP STATION SECTIONS				WORKMANSHIP LIKE MANNER, WHEN FIELD CONDITIONS INDICATE ANY VARIANCE FROM DETAILED METHODS. THE CONTRACTOR SHALL PROVIDE	SERVICE.		9. RIP RAP SHALL B	E INSTALLED PER FDOT STANDAR	D SPECIFICATION 530 AND
MECHANICAL	M-3 M-4	CENTRAL PUMP STATION SECTIONS CENTRAL PUMP STATION ISOMETRIC VIEW	ACCESS DRIVE			COMPREHENSIVE AND DETAILED DRAWINGS FOR OWNER REVIEW AND APPROVAL PRIOR TO MAKING THE CONNECTIONS.	 ALL TEST POINT TAPPING SHALL BE CUT LOOS STOP AND COMPLETELY REMOVED AND DISPOSE 	SE FROM THE CORPORATION SED OF BY THE CONTRACTOR	SHALL BE PROCUE	RED FROM A FDOT APPROVED YA	RD.
98.50	M-5	LEACHATE PIPING IMPROVEMENTS				13. UNLESS OTHERWISE INDICATED OR APPROVED, ALL BELOW GROUND DUCTILE	PRIOR TO FINAL ACCEPTANCE. THE CORPORAT AND REMAIN IN PLACE,	10N STOP SHALL BE CAPPED			
œ l	M-6	MECHANICAL DETAILS	EX. FORCE MAIN -	XFMXFMXFM		IRON PIPE SHALL HAVE PUSH-ON OR MECHANICAL JOINTS, AND ALL ABOVE GROUND DUCTILE IRON PIPE SHALL HAVE FLANGED JOINTS. ALL PIPE IN				PIPE AND FITTING S	SYMBOLS
and de	S-1	STRUCTURAL GENERAL NOTES				CONTACT WITH RECLAIMED WATER SHALL HAVE A CEMENT LINING PER AWWA C104. ALL BURIED PIPE SHALL HAVE AN EXTERNAL COAL TAR ENAMEL. ALL	MAY 2017 SUE TEST HOLE DATA				-
a l	S-2	CENTRAL PUMP STATION PLAN	EX. WATER —	-1-1/17 XWT		EXPOSED PIPE SHALL HAVE AN FACTORY APPLIED EXTERIOR EPOXY PRIMER.	NUMBER UTILITY SIZE/MATERIAL	GROUND ELEVATION	TOP OF PIPE	ao, Erbom	
± 1	S-3	CENTRAL PUMP STATION SECTIONS				ALL JOINTS SHALL BE RESTRAINED PER JOINT RESTRAINT TABLE UNLESS OTHERWISE SPECIFIED ON THE PLANS. CONTRACTOR TO FULLY RESTRAIN	VVH-101 FM 30* DIP	36.55	31.69		
STRUCTURAL	5-4	DISCHARGE PIPING FOUNDATION	EX. STORM	*ST		EXISTING PIPE AT TIE-IN LOCATIONS OF NEW PIPE IN ACCORDANCE WITH JOINT RESTRAINT TABLE.	VVH-102 FM 12" PVC	36.17		90' ELBOW ROTATED UP	
a b	S-5	INTAKE SCREEN SLAB				14. ALL PIPELINES SHALL HAVE A MINIMUM COVER OF 36" BELOW EXISTING	NAME AND ADDRESS OF THE PARTY O	(4)2-503	31.76		<u></u>
tent.	S-6 S-7	LEACHATE METERING ASSEMBLY PAD	EX. UGC	xuccxucc		GRADE UNLESS OTHERWISE NOTED OR DIRECTED.	SAMOTOWAY TO ALMOST THE SAME T	35.99	31.69	90° ELBOW ROTATED DOWN	' (
2	S-8	STRUCTURAL DETAILS STRUCTURAL DETAILS	EX. RECLAIMED WATER MAIN -	V200 V200		15. SANITARY SEWERS AND FORCE MAINS CROSSING OVER OR UNDER WATER	VVH-104 FM 36" DIP	39.34	32.90		<u></u>
9	E1	ELECTRICAL LEGEND AND ABBREVIATIONS	DE RESEAULO TATER MAIN	Ann		MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18" BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER	VVH-105 FM 12" PVC	40.48	33.27	IEE	
od land	E-2	ELECTRICAL SITE PLAN	EX. SANITARY SEWER -			PIPE. WHERE THIS MINIMUM SEPARATION CANNOT BE MAINTAINED, THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER OR FORCE MAIN PIPE	VVH-105 RCW 30" DIP	40.50	37.32	REDUCER	Ā
9	E-3	CENTRAL PUMP STATION ELECTRICAL LAYOUT				JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING WITH NO LESS	VVH-107 2" PVC	40.78	37.77	nesocat	L L
ed.	E-4	CENTRAL PUMP STATION ELECTRICAL EQUIPMENT RACK LAYOUTS	EX. SURFACE POND WATER -	-XSPWXSPW		THAN 10' BETWEEN ANY TWO JOINTS. AS AN ALTERNATIVE, THE SEWER OR FORCE MAIN MAY BE PLACED IN A WATERTIGHT CASING PIPE.	VVH-108 FM 36* DIP	38.82	32.64		H
å	E-5	CENTRAL PUMP STATION ELECTRICAL EQUIPMENT RACK LAYOUTS				16. WATER SHALL NOT BE PERMITTED IN BUILDING EXCAVATIONS OR TRENCHES	VVH-109 FM 12" PVC	37.95	31,70	ECCENTRIC REDUCER	⊢
\$	E-6 E-7	CENTRAL PUMP STATION ELECTRICAL ONE-LINE DIAGRAM	EX. REJECT	WEI-XFEI-		DURING CONSTRUCTION. DEWATERING IS REQUIRED TO A MINIMUM OF 18" BELOW BOTTOM OF EXCAVATION.	VVH-110 RCW 30" DIP	37.86	35.06		
5	E-8	ELECTRICAL MODIFICATIONS SITE PLAN				17. THE CONTRACTOR SHALL NOT ALLOW ANY DISCHARGE OF WASTEWATER TO	VVH111 UNKNOWN DIP	37.45	31.00	GATE VALVE	
ELECTRICAL	E-9	ELECTRICAL DETAILS	EX. CLAIRIFIER EFFLUENT —	- ACLE		LANDS AND/OR ADJACENT WATER BODIES OR STORM DRAINS. ANY LEAKAGE	VVH-112 RCW 36" DIP	34.61	31.61	PLUG VALVE	
2	E-10	CONDUIT AND CABLE SCHEDULE				MUST BE CONTAINED AND REMOVED BY THE CONTRACTOR TO THE PLANT DRAIN PUMP STATION AT THE WASTEWATER TREATMENT PLANT. CONTRACTOR	VVH-113 UNKNOWN - DIP	34.54	27.08	1 200 Mara	(3)
	E11	ELECTRICAL BUILDING NO.1 FLOOR PLAN	EX. COMPRESSED AIR —	X-CA		SHALL BE RESPONSIBLE FOR REPORTING ANY SPILLS TO FDEP.	VVH-114 FM 24" DIP	35.48	32.78	MAGNETIC FLOW METER	101
5	E-12	MCC-9 ELEVATION AND DETAILS	EX. PLAINT DRAIN FORCE MAIN -	NFOP4 NFOP4		 ALL BELOW-GRADE FITTINGS 4-INCHES AND GREATER IN DIAMETER SHALL BE MECHANICAL JOINT DUCTILE IRON AND COATED ON THE INSIDE WITH 	VVH-115 FM 12" PVC	35.50	32.67		
	E-13	MCC-10 ELEVATION AND DETAILS				CEMENT LINING PER AWWA C104, AND SHALL HAVE A COAL TAR ENAMEL COATING ON THE OUTSIDE.	JANUARY 2017 SUE TEST HOLE DATA			ARV	Π
-	E-14 E-15	MCC-9 AND MCC-10 ONE-LINE DIAGRAMS	ABBREVIATIONS	PLAN CAL	LLOUT LEGEND						
-	E-16	BIOSOLIDS BULDING ELECTRICAL PLAN DEWATERING BUILDING TEMPORARY POWER PLAN	ARV AIR RELEASE VALVE © CENTERLINE			19. ALL EXPOSED FITTINGS 4—INCHES AND GREATER IN DIAMETER SHALL BE FLANGED JOINT DUCTILE IRON AND COATED ON THE INSIDE WITH A CEMENT INCHES FOR ANY COAL AND SHALL BE AN ANY COAL AND SHALL BE AN ANY COAL ANY COAL AND SHALL BE AN ANY COAL			OP OF PIPE	CHECK VALVE	Q
6	E-17	WIRING DIAGRAMS	CLS/CLS2 CHLORINE SOLUTION DUCTILE IRON		DETAIL NAME	LINING PER AWWA C104, AND SHALL HAVE A FACTORY APPLIED EXTERIOR EPOXY PRIMER.	VVH-101 UNKNOWN DIP	35.33	32.82		-
	I1	INSTRUMENTATION LEGEND AND ABBREVIATIONS	DIA DIAMETER		/	20. ALL EXPOSED PIPING AND FITTINGS SHALL BE PAINTED WITH DESIGNATED	VVH-102 CLE 36" DIP	35.99	29.39	FLANGED	E
[]	1-2	MOTOR CONTROL CABINET EXTERIOR ELEVATION	DIP DUCTILE IRON PIPE EFF EFFLUENT	(7) KEY MOTE (2		COLORS ASSOCIATED WITH THEIR USAGE AS PROVIDED IN THE SPECIFICATIONS.	VVH-103 2CL2S 2" PVC	36	33.95	urally and a	h
	I-2A	MOTOR CONTROL CABINET DEADFRONT ELEVATION	ELEC ELECTRICAL EX EXISTING	(7) KEY NOTE (D-22)	又	21. ALL NEW PIPELINES SHALL BE FLUSHED, PRESSURE TESTED, AND APPROVED	VVH-104 REJ 12" PVC	37,06	32.94	MECHANICAL JOINT	₽—
	I-2B	MOTOR CONTROL CABINET DEADFRONT ELEVATION	FL FLANGED FM FORCE MAIN	(A) KEY TAG	SHEET WHERE	 ALL NEW PIPELINES SHALL BE FLUSHED, PRESSURE TESTED, AND APPROVED PRIOR TO IDE-INS TO EXISTING FACILITIES. THE CONTRACTOR WILL BE ALLOWED TO USE TEMPORARY PLUGS FOR PRESSURE TESTING. 	VVH-105 SPW 16" DIP	36.92	33.12		
	I-3 I-4	MOTOR CONTROL CABINET BILL OF MATERIALS TYPICAL VFD WIRING SCHEMATIC	FRP FIBERGLASS PIPE FT FOOT OR FEET		DETAIL IS SHOWN		VVH-106 UNKNOWN 12" DIP	36.34	33.18		
INSTRUMENTATION	1-5	PUMP CONTROL CABINET ELEVATIONS AND DETAIL	INV INVERT MEG MATCH EXISTING GRA	NOE (10)	\	 CONTRACTOR SHALL MAINTAIN A CLEAR PATH FOR ALL SURFACE WATER DRAINAGE STRUCTURES AND DITCHES DURING ALL PHASES OF 	VVH-107 RCW DIP	34.96	29.96		
	I-5A	PUMP CONTROL CABINET BILL OF MATERIALS	MH MANHOLE	ADE PICTURE TAG		CONSTRUCTION. THE CONTRACTOR SHALL BE REQUIRED TO INSTALL ALL EROSION, SEDIMENT, AND TURBIDITY CONTROL MEASURES PRIOR TO	VVH-108 BE 2" PVC	35.40	33.55		
1	⊢ 6	PUMP CONTROL CABINET POWER WIRING SCHEMATICS	MJ MECHANICAL JOINT PE PLAIN END	_		CONSTRUCTION OF ANY COMPONENTS ASSOCIATED WITH THE PROJECT.	VVH-109 UNKNOW 12" PVC	35.62	31.34		
j t	I-8A	PUMP CONTROL CABINET PLC IO WIRING SCHEMATICS	PS PUMP STATION PVC POLYVINYLCHLORIDE			ANY OTHER APPURTENANCES NEEDED BUT NOT NECESSARILY SHOWN ON THESE DRAWINGS.	VVH + 1 O	35.60	32.93		
	l−7	INSTRUMENTATION DETAILSS	PW POTABLE WATER RCW RECLAIM WATER				NVH-111 SHE - BY DVC	35.87	34.27		
	I-B	WET WELL JUNCTION BOX RACK DETAILS	SCH SCHEDULE			 CONTRACTOR SHALL PROVIDE PROTECTIVE MATTING, FUEL CONTAINMENT AND ALL OTHER MATERIALS, EQUIPMENT AND LABOR TO PROTECT THE STAGING 		35.05			
	⊢ 9	JUNCTION BOX DETAILS	SPW STORAGE POND WATE SS STAINLESS STEEL	L/N		AREA DURING CONSTRUCTION.	Noned Seese	T4 DD0/2000			
			SWH SIDE WALL HEIGHT TYP. TYPICAL			24. CONTRACTOR SHALL, PRIOR TO BEGINNING CONSTRUCTION, SUBMIT A "FUFLING SPILL PREVENTION PLAN" THAT SHALL CLEARLY INDICATE HOW	NOTE SUBSURFACE ATTUTY SIGNEETING DA MANUARY (B. PG17 AND MAY 24, 2017)	IA PROVIDED BY HYATT SURVEY SER	VICES, DATED		
			UGC UNDERGROUND CONDI VERT. VERTICAL	UIT		"FUELING SPILL PREVENTION PLAN" THAT SHALL CLEARLY INDICATE HOW FUEL SPILLS WILL BE PREVENTED WHEN FUELING BOTH WITHIN AND OUTSIDE	W. O. NUENSA . Z.				
			W/ WTH	ine.		en 1	15-7				
			MEG MATCH EXISTING GRA	1		w U	The state of the s	•			
-					HA PROJECT	The same of the sa	LICENSED PROFESSIONAL	9			CHEET AND INC.
		KIN	nley»H	orn ⊢	148400015	Ivianutee	: XXIIII				SHEET NUMBER
					DATE 1/28/2020	County		DDAMAIN		ND I	
-		The second secon		CONTRACT PROCESS	CALL CONTROL OF THE CALL C	ms J	STEPHEN N. ROMANO, P.E.	DRAWING	INDEX A	ו י טאו	
			O KIMLEY—HORN AND ASSOCIA O 2ND AVENUE SOUTH, SUITE 10	OEN	LE AS SHOWN	SEWRF RECLAIMED	2 -1000 0000 00 5			I	G-2
		100	ST. PETERSBURG, FL 33701	DESI	IGNED BY SNR	DIMAD DAGGEOTATION	F. UCENSE NAME OF STREET	GENERA	AL NOTE	S I	G-Z
			PHONE: 727-547-3999	DRA	WN BY ASR	PUMP BACK STATION "	57579			S≅C.	
lo.	REVISIONS	DATE BY WWW.	KIMLEY-HORN.COM CA 0000	00696 CHE	CKED BY WEW MANATEE C		FR DATE ONAL E				
						The state of the s	77/////////////////////////////////////				











EROSION AND SEDIMENT CONTROL NOTES

- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FILING NOTICE OF INTENT TO USED THE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES.
- UISSAMANGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES.
 CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THIS STORM WATER POLLUTION PREVENTION PLAN.
 ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST OF OWNER
 THROUGHOUT ALL PHASES OF CONSTRUCTION.
- THROUGHOUT ALL PHASES OF CONSTRUCTION.
 BEST MANAGEMENT PRACTICES (BMF²) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL
 OF PRACTICE, AS APPLICABLE, CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY OR
- OWNER.

 AND STRUCTURE OF STRUCT
- DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY STABILIZED.
 THESE AREAS SHALL BE SEEDED, SODDED, AND/OR VEGETATED IMMEDIATELY, AND COMPLETED NO LATER THAN 7 DAYS AFTER THE
 LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS. REFER TO THE GRADING PLAN AND/OR LANDSCAPE PLAN.
- SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PLAN AND/OR LANDSCAPE PLAN.

 SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.

 TEMPORARY AND/OR PERMANENT STABILIZATION SHALL BE APPLIED PER REQUIREMENTS IN THESE E&S CONTROL NOTES.

 DUE TO THE GRADE CHANCES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION AND SEDIMENT CONTROL MEASURES (SILT FENCES, ETC.) TO PREVENT EROSION AND POLLUTANT DISCHARGE OFF—SITE
- OFF-SITE.

 ALL MEASURES STATED ON THIS PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY PUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SCOMMENTATION CONTROL. MEASURES SHALL BE CHECKED BY A QUALIFED PERSON IN ACCORDANCE WITH THE CONTRACT DOCUMENTS OR THE APPLICABLE GENERIC PERMIT, WHICHEVER IS MORE STRINGENT, AND REPAIRED IN ACCORDANCE WITH THE PLANS.

 STORM WATER POLLUTANT CONTROL MEASURES INSTALLED DURING CONSTRUCTION, THAT WILL ALSO PROVIDE STORM WATER MANAGEMENT AFTER CONSTRUCTION, ARE INCLUDED IN THE CONTRACT DOCUMENTS.

 ALL PERMANHENT CONTROLS AND SYSTEMS MUST BE INSTALLED AND FUNCTIONING AS DESIGNED AND FREE OF ACCUMULATED SEDIMENT AND DEBRIS DURING FINAL PROJECT INSPECTION AND APPROVAL.

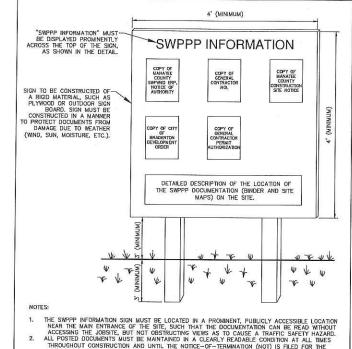
NOI	TABLE
PROJECT NAME	SEWRF RECLAIMED PUMP BACK STATION
PROJECT ADDRESS	3331 LENA ROAD
CITY	BRADENTON
STATE	FLORIDA
ZIP CODE	34211
COUNTY	MANATEE
LATITUDE	27* 28' 08.20" N
LONGITUDE	82' 27' 05.8" W
INDIAN COUNTY LANDS	NO
WATER MANAGEMENT DISTRICT	SWFWMD
LARGE OR SMALL CONSTRUCTION	LARGE
LOD ACREAGE	290 ACRES
SWPPP LOCATION	ADDRESS IN PART IV
DEWATERING	YES
WITHIN 500' OF CONTAMINATED SITE	YES
REMEDIATED	NO
POLLUTANTS PRESENT	YES
RECEIVING WATER	MANATEE RIVER

REVISIONS

SOIL EROSION/SEDIMENTATI	ION	C	INC	TRO)L	OPE	ER A	4TIC)N	TIM	E :	SCF	HED	UL	Ε									
NOTE: GENERAL CONTRACTOR TO	CC	MPI	ETE	T/	ABLE	E WI	TH	THE	IR E	STI	MAT	ED	PRO	OJE	OT 5	SCHE	EDU	LE	_					_
CONSTRUCTION SEQUENCE	JAN	FEB	MAR	APF	MAY	MUL	JUL	AUG	SEP	ост	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	D
TEMPORARY CONSTRUCTION EXITS																								Γ
TEMPORARY CONTROL MEASURES																							\Box	Γ
SEDIMENT CONTROL BASIN(S)/TRAP(S)																								Γ
STRIP & STOCKPILE TOPSOIL													1											Γ
ROUGH GRADING																					\Box			ī
STORM FACILITIES																								ī
SITE CONSTRUCTION										7														ī
FINISH GRADING																	200				П			ī
PERMANENT CONTROL STRUCTURES																		-000			П		\neg	ī
FOUNDATION / BUILDING CONSTRUCTION																								Ī
LANDSCAPING/SEED/FINAL STABILIZATION																								Ē
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DATE

BY



- THROUGHOUT CONSTRUCTION AND UNTIL THE NOTICE-OF-TERMINATION (NOT) IS FILLD FOR THE PERMIT.

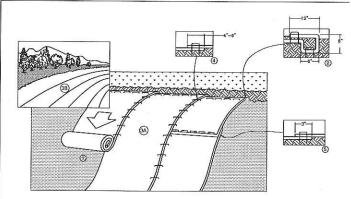
 ALL PAGES OF NOTICES OF INTENT AND PERMIT AUTHORIZATIONS MUST BE POSTED. THE CONTRACTOR MAY UTILIZE ACCESSIBLE WATERPROFO FOLDERS TO STORE THESE DOCUMENTS IF IT WILL BE DIFFICULT TO POST ALL PAGES INDIMOUALLY.

 CONTRACTOR SHALL POST OTHER STORMWATER AND/OR PERMITS AS SHOWN ON THE SWPPP INFORMATION SIGN DETAIL AND AS REQUIRED BY THE GOVERNING ACENCIES.

 SUBSEQUENT PERMIT MODIFICATION REQUESTS OR RENEWAL APPLICATIONS AND THEIR ASSOCIATED AUTHORIZATIONS OR RESPONSES SHALL BE POSTED ON THE SWPPP SIGN.

 SIGN SHALL BE LOCATED OUTDIDE OF PUBLIC RIGHT-OF-WAY AND EASEMENTS UNLESS APPROVED BY THE GOVERNING ACENCY. THROUGHOUT CONSTRUCTION AND UNTIL THE NOTICE-OF-TERMINATION (NOT) IS FILED FOR

- - SWPPP INFORMATION SIGN



- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LINE, FERTILIZER, AND SEED, BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH MITH APPROXIMATELY OF BLANKET EXTENDED BEFOND THE UP-SLOPE PORTION OF THE TRENCH AS SHOWN IN DETAIL 2. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH-BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL SCUIRE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
- STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.

 ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH

 APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS WUST BE SECURELY FASTENED TO SOIL SURFACE BY

 PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS PER MANUFACTURES RECOMMENDATION.

 THE EDGES OF PARALLE BLANKETS MUST BE STAPLED WITH MINIMUM 6" OVERLAP. TO ENSURE PROPER SEAM

 ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE

 SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.

 CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN

 APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE

 BLANKET WIDTH.
- PLACE STAPLES/STAKES PER MANUFACTURER'S RECOMMENDATION FOR THE APPROPRIATE SLOPE BEING APPLIED
- IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.
 FOLLOW BERSON CONTROL TECHNOLOGY COUNCIL SPECIFICATION FOR PRODUCT SELECTION.
 - 2 EROSION CONTROL BLANKET (SLOPE INSTALLATION)

KHA PROJECT

148400015

DATE 1/28/2020

DRAWN BY



SEWRF RECLAIMED PUMP BACK STATION

AND SEDIMENTATION

SHEET NUMBER

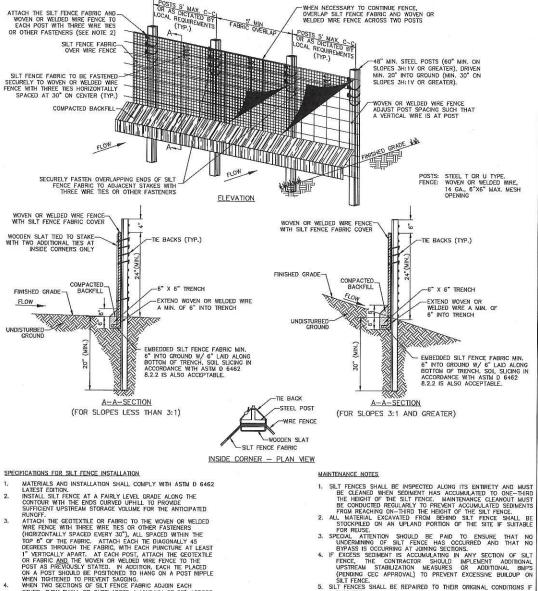
G-8

Kimley» Ho

@ 2020 KIMLEY-HORN AND ASSOCIATES, INC 100 2ND AVENUE SOUTH, SUITE 105N ST, PETERSBURG, FL 33701 PHONE: 727-547-3999 WWW.KIMLEY-HORN.COM CA 00000696

SCALE AS SHOWN DESIGNED BY SNF ASR

CHECKED BY WEW MANATER COUNTY



- CONTOUR WITH THE ERROS CORVED OFFILL TO PROVIDE.
 SUFFICIENT UPSTREAM STORAGE VICLIME FOR THE ANTICIPATED
 RUNGETH THE CECTEXTILE OR FABRIC TO THE WOVEN OR WELDED
 WITH THREE CENTEXTILE OR FABRIC TO THE WOVEN OR WELDED
 WITH FABRIC WITH THREE WISE TIES OR OTHER FASTENERS
 (HORIZONTALLY SPACED EVERY 30"). ALL SPACED WITHIN THE
 TOP 8" OF THE FABRIC, ANTACH EACH TE DIAGONALLY 4S
 DEGREES THROUGH THE FABRIC, WITH EACH PUNCTURE AT LEAST
 1" VERTICALLY APART. AT EACH POST, ATTACH THE CEOTEXTILE
 OR FABRIC AND THE WOVEN OR WELDED WIRE FENCE TO THE
 POST AS PREVIOUSLY STATED. IN ADDITION, EACH TO THE
 WHEN TICHTHENE TO PREVENT SAGGING.
 WHEN TWO SECTIONS OF SILT FENCE FABRIC ADJIN EACH
 OTHER, THEY SHALL BE OVERLAPPED A MININUM OF 60" ACROSS
 TWO FOSTS, AS SHOWN.
 ALL SILT FENCE SHALL INCLUDE WIRE SUPPORT UNLESS THE
 STATIC SLICING EQUIPMENT IS INTILIZED TO INSTALL THE FENCE
 FER CETAL, "SILT FENCE INSTALLATION IS CLIDING METHOD".
 WARP APPROXIMATELY 6" OF FABRIC AROUND THE END POSTS
 AND SECURE WITH 3 THE STATLATION IS CLIDING METHOD".
 WARP APPROXIMATELY 6" OF FABRIC AROUND THE END POSTS
 AND SECURE WITH 3 THE STATLATION IS CLIDING METHOD".
 WARP APPROXIMATELY 6" OF FABRIC AROUND THE END POSTS
 AND SECURE WITH 3 THE STATLATION IS CLIDING METHOD".
 WARP APPROXIMATELY 6" OF FABRIC AROUND THE END POSTS
 AND SECURE WITH 3 THE STATLATION TO THE SILT FENCE
 COMPACT THE SOIL IMMEDIATELY NEXT TO THE SILT FENCE
 COMPACT THE SOIL IMMEDIATELY NEXT TO THE SILT FENCE
 COMPACT THE UPSTREAM SIDE FIRST. COMPACT EACH SIDE TWICE
 FOR A TOTAL OF FOUR TRIPS.
 ADD POST CAPS AS NEEDED BASED ON SITE CONDITIONS AND
 APPLICABLE AGENCY REQUIREMENTS.

- 5. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF

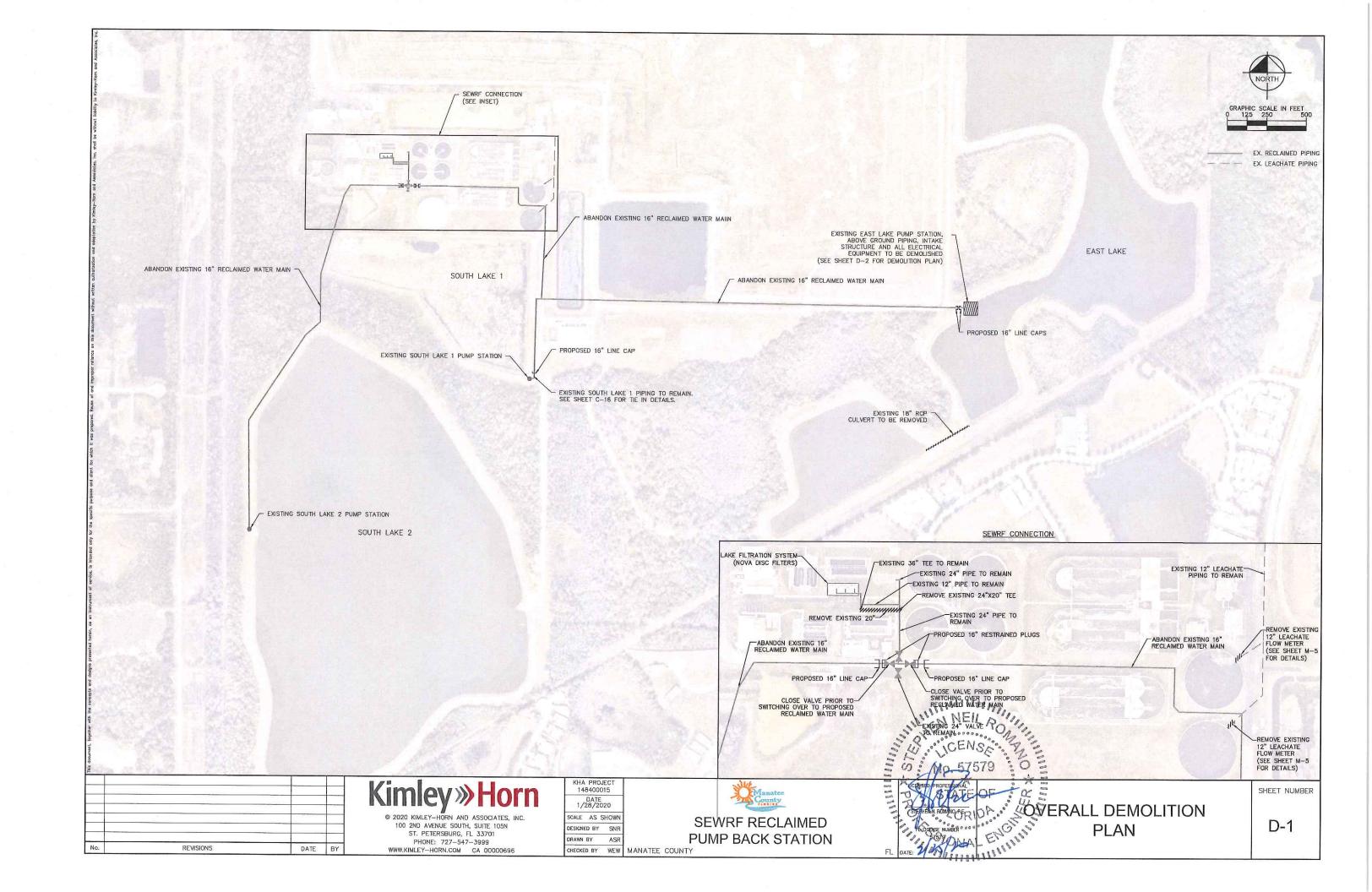
SEDIMENTATION/SILT FENCE WITH WIRE BACKING

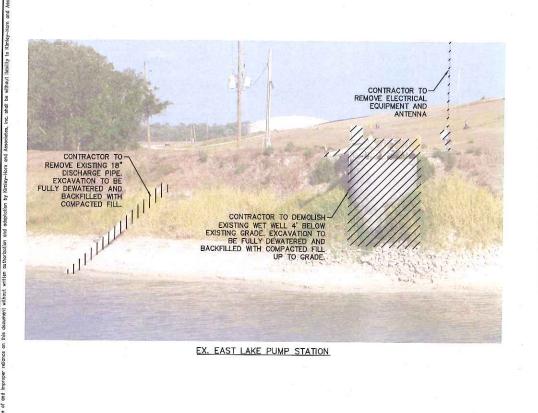
No 57579 EROSION CONTROL

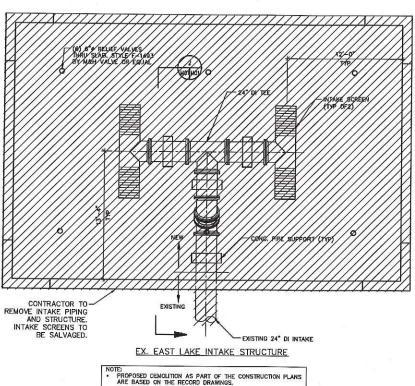
AND SEDIMENTATION

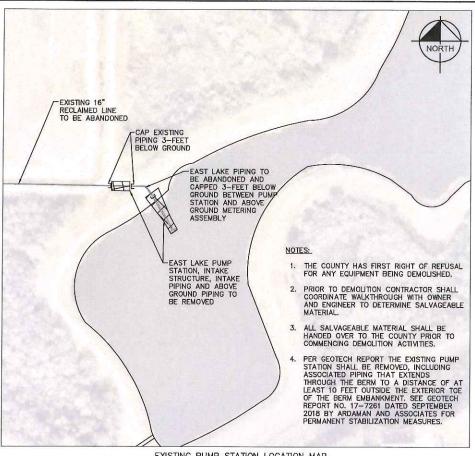
FL DATE: 47650 NA

FL DATE: 47650









EXISTING PUMP STATION LOCATION MAP

CONTRACTOR TO-EMOVE INTAKE PIPING AND STRUCTURE INTAKE SCREENS TO BE SALVAGED.

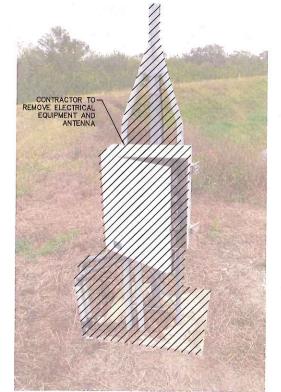
EX. EAST LAKE INTAKE STRUCTURE

WHOTE PROPOSED DENGTION AS BART OF THE CONSTRUCTION PLANS

ARE GRASED ON THE ACCORD OF AWAYERS.

OF THE CONSTRUCTION PLANS

OF THE CONSTRUCTION PLANS





DATE BY

REVISIONS



DRAWN BY ASR



PHONE: 727-547-3999

WWW.KIMLEY-HORN.COM CA 00000696



SEWRF RECLAIMED PUMP BACK STATION CHECKED BY WEW MANATEE COUNTY

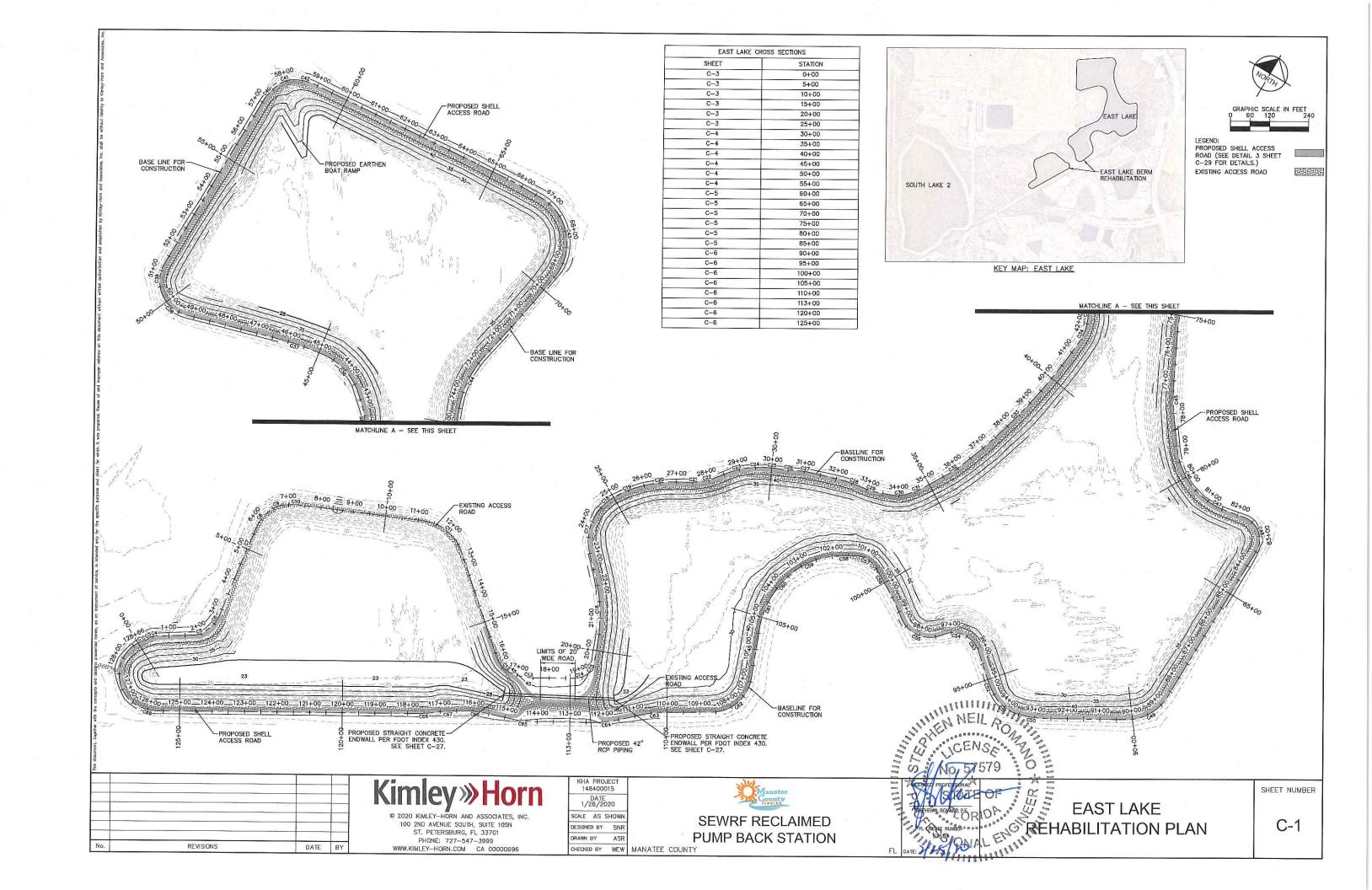
EXISTING CONCRETE— WET WELL

APPROXIMATE WATER LEVEL

DEMOLITION PLANT DEMOLITION PLAN

SHEET NUMBER

D-2



11				CURV	E TABLE			
CURVE	RADIUS	LENGTH	START NORTHING EASTING	START STATION	END NORTHING EASTING	END STATION	PI NORTHING EASTING	PI
C1	56.10'	20.10	N: 1137201.3589 E: 512475.9605	-0+00.00	N: 1137217.2139 E: 512488.1398	0+20.10	N: 1137210.3892 E: 512480.6145	0+10.16
C2	15.94	10.11	N: 1137217.2139 E: 512488.1398	0+20.10	N: 1137224.7157 E: 512494.6616	0+30.21	N: 1137219.8945 E: 512492.6318	0+25.33
C3	37.35'	16.67'	N: 1137224.7157 E: 512494.6616	0+30.21	N: 1137239.3719 E: 512502.3177	0+46.88	N: 1137232.9128 E: 512496.8262	0+38.69
C4	34.26'	17.93	N: 1137239.3719 E: 512502.3177	0+46.88	N: 1137249.7436 E: 512516.6935	0+64.81	N: 1137246.4830 E: 512508.1166	0+56.06
C5	58.74	37.50	N: 1137310.2644 E: 512612.6066	1+78.22	N: 1137338.7309 E: 512636.0375	2+15.73	N:1137320.6253 E:512629.0266	1+97.64
C6	122.93'	42.79	N: 1137363.4333 E: 512645.6030	2+42.22	N: 1137405.9412 E: 512648.0562	2+85.01	N: 1137384.4716 E: 512650.5669	2+63.83
C7	2830.91	126.83	N: 1137572.5174 E: 512623.6667	4+53.36	N: 1137698.3764 E: 512608.1097	5+80.19	N: 1137635.2726 E: 512614.4783	5+16.79
С8	99.34'	47.58'	N: 1137698.3764 E: 512608.1097	5+80.19	N: 1137745.0491 E: 512614.6341	6+27.77	N: 1137722.5092 E: 512605.6741	6+04.45
С9	58.62'	34.41	N: 1137762.3942 E: 512621.5290	6+46.44	N: 1137788.9420 E: 512642.6430	6+80.85	N:1137778.8590 E: 512628.0739	6+64.15
C10	58.62'	11.38	N: 1137808.6193 E: 512671.0749	7+15.43	N: 1137814.1497 E: 512681.0011	7+26.81	N: 1137811.8678 E: 512675.7687	7+21.13
C11	142.20'	159.03'	N: 1137969.5863 E: 513037.4109	11+15.64	N: 1137947.3477 E: 513186,6362	12+74.67	N: 1138005.1610 E: 513118.9822	12+04.63
C12	88.00'	90.74'	N: 1137728.7259 E: 513442.4707	16+11.19	N: 1137711.7647 E: 513527.5738	17+01.94	N: 1137696.1303 E: 513480.2161	16+61.06
C13	148.00'	30.33'	N: 1137717.3874 E: 513544.6055	17+19.87	N: 1137729.7715 E: 513572.2372	17+50.20	N: 1137722.1587 E: 513559.0581	17+35.09
C14	78.81	48.84	N: 1137789.7186 E: 513676.0153	18+70.05	N: 1137824.2718 E: 513709.4275	19+18.90	N: 1137801.6458 E: 513698.2535	18+95,29
C15	17.92'	13.26	N: 1137836.5548 E: 513714.9546	19+32.36	N: 1137849.4587 E: 513716.1894	19+45.63	N: 1137842.7673 E: 513718.0749	19+39.32
C16	480.26	191.04'	N: 1137929.1064 E: 513684.8906	20+31.20	N: 1138088.5417 E: 513581.9499	22+22.24	N: 1138019.1982 E: 513649.4878	21+28.00
C17	152.75	141.93'	N: 1138145.9247 E: 513526.0612	23+02.34	N: 1138276.3816 E: 513484.6140	24+44.28	N: 1138200.7671 E: 513472.6469	23+78.90
C18	149.83'	57.37'	N: 1138279.2656 E: 513485.0705	24+47.20	N: 1138332.8609 E: 513504.5383	25+04.57	N: 1138307.9500 E: 513489.6102	24+76.24
C19	268.73	62.88'	N: 1138344,0220 E: 513511.2267	25+17.58	N: 1138393.7062 E: 513549.5391	25+80.46	N: 1138371.1157 E: 513527.4630	25+49.17
C20	375.15	112.16'	N: 1138402.3130 E: 513557.9500	25+92.50	N:1138469.7113 E:513647.0846	27+04.66	N: 1138442.7247 E: 513597.4417	26+49.00
C21	311.13'	50.39'	N: 1138479.8590 E: 513665.7517	27+25.91	N: 1138507.3972 E: 513707.8843	27+76.30	N: 1138491.9185 E: 513687.9354	27+51.16
C22	138.43'	34.45'	N:1138509.5220 E:513710.6228	27+79.77	N: 1138533.7915 E: 513734.9454	28+14.21	N: 1138520.1358 E: 513724.3017	27+97.08
023	275.48'	69.14'	N: 1138568,5065 E: 513762,0030	28+58.23	N: 1138617.1631 E: 513810.8704	29+27.37	N: 1138595.9173 E: 513783.3675	28+92.98
C24	129.31'	21.29'	N:1138623.4699 E:513819.0347	29+37.69	N: 1138635.0425 E: 513836,8758	29+58.98	N: 1138629.9922 E: 513827.4779	29+48.36
C25	511.41'	54.58'	N:1138641.4290 E:513848.7606	29+72.47	N: 1138664.6543 E: 513898.1283	30+27.05	N: 1138654.3602 E: 513872.8242	29+99.79
C26	332.47'	33.83'	N:1138667.1230 E:513904.1968	30+33.60	N: 1138681.4406 E: 513934.8284	30+67.43	N: 1138673.5020 E: 513919.8771	30+50.53
027	305.80	61.12'	N:1138683.1291 E:513938.0085	30+71.03	N: 1138706.2258 E: 513994.4909	31+32.16	N: 1138697.5093 E: 513965.0917	31+01.70
028	340.84'	64.19'	N:1138731.6997 E:514080.4105	32+21.77	N: 1138744.0608 E: 514143.3071	32+85.97	N: 1138740.8505 E: 514111.2751	32+53.96
C29	194.00'	48.25'	N: 1138744.0782 E: 514143.4805	32+86.14	N: 1138754.7782 E: 514190.3970	33+34.39	N: 1138746,4962 E: 514167,6075	33+10.39
030	105.78'	50.26'	N:1138769.1083 E:514229.8288	33+76.34	N: 1138796.6491 E: 514271.3074	34+26.60	N: 1138777.8570 E: 514253.9024	34+01.95
C31	211.52'	44.44'	N: 1138803.4330 E: 514277.5905	34+35.85	N: 1138838.9604 E: 514304.1551	34+80.29	N: 1138819.7962 E: 514292.7458	34+58.15
32	194.00'	27.80'	N: 1138920.0711 E: 514352.4437	35±74.60	N: 1138944.8967 E: 514364.9088	36+02.49	N: 1138932.0366 E: 514359.5672	35+88.61
233	1669.16'	491 25'	N-1138944 8967	36+02.40	N: 1139409.6294 E: 514483.3306	40+83.74	N: 1139168.6676 E: 514457.8513	38+44.80
34	169.00'	50 52'	N: 1139459.4558 E: 514487.8415	4143377	N: 1139518,4491 E: 514482,7671	41+93.29	N: 1139489.4039 E: 514490.5527	41+63.84
35	144.00'	82 00'	N: 1139518.4491 E: 514482.7671	A1±03.20	N:1139588.2249 E:514439.9809	42+76.28	N: 1139559.6784 E: 514471.7156	42+35.97

				CURV	E TABLE			
CURVE	RADIUS	LENGTH	START NORTHING EASTING	START STATION	END NORTHING EASTING	END STATION	PI NORTHING EASTING	PI STATION
C36	194.00'	171.76'	N: 1139616.1184 E: 514408.9723	43+17.99	N:1139663.6253 E:514249.6979	44+89.75	N: 1139677.6255 E: 514340.5959	44+09.96
C37	851.43	112.80	N: 1139658.8463 E: 514218.6704	45+21.15	N: 1139634.3500 E: 514108.6424	46+33.95	N: 1139650.2478 E: 514162.8438	45+77.6
C38	105.57'	98.01'	N: 1139551.7556 E: 513827.0489	49+27.41	N: 1139568.3051 E: 513733.9802	50+25.42	N: 1139536.7312 E: 513776.3715	49+80.20
C39	104.57	98.08'	N: 1139568.3051 E: 513733.9802	50+25.42	N: 1139652.5633 E: 513691.1291	51+23.50	N: 1139599.5782 E: 513691.2087	50+78.4
C40	178.66'	87.43'	N: 1140219.3517 E: 513695.3888	56+90.31	N: 1140304.1817 E: 513712.6147	57+77.74	N: 1140263.9172 E: 513693.4113	57+34.92
C41	59.48'	37.80'	N: 1140304.1817 E: 513712.6147	57+77.74	N: 1140332.8509 E: 513736.2651	58+15.54	N: 1140322,4055 E: 513719,7254	57+97.30
C42	161.00'	83.14	N: 1140332.8509 E: 513736.2651	58+15.54	N: 1140358.7953 E: 513814.2800	58+98.67	N:1140356.1243 E:513771.8469	58+58.05
C43	161.00'	282.70'	N: 1140416.6587 E: 514580.4341	66+67,20	N:1140229.1160 E:514742.3285	69+49.90	N: 1140420.3959 E: 514774.3378	68+61.14
C44	309.00'	179.16	N: 1139915.6712 E: 514682.1075	72+69.14	N: 1139739.5220 E: 514695.5978	74+48.30	N: 1139825.5844 E: 514662.5787	73+61.32
C45	710.56	123.98'	N: 1139513.7725 E: 514798.3421	76+96.57	N:1139407.9261 E:514862.5907	78+20.55	N:1139458.0397 E:514825.8377	77+58.72
C46	224.00'	182.83'	N: 1139338.7451 E: 514913.3277	79+06.34	N: 1139248.8774 E: 515066.7401	80+89.17	N: 1139260.6454 E: 514970.6056	80+03.19
C47	194.00	58.70'	N: 1139247.6731 E: 515076.5780	80+99.08	N: 1139249.3964 E: 515135.0266	81+57,78	N: 1139244.0796 E: 515105.9337	81+28.65
C48	72.00'	127.16'	N: 1139260.9177 E: 515198.0690	82+21.86	N: 1139189.0399 E: 515283.0052	83+49.03	N:1139276.6739 E:515284.2845	83+09.51
C49	146.96	152.68'	N: 1138670.8717 E: 515275.4414	88+67.25	N: 1138545.2737 E: 515201.1934	90+19.93	N:1138586.8440 E:515274.2278	89+51.29
C50	322.00'	87.42'	N: 1138423.7699 E: 514987.8019	92+65.49	N: 1138391.2935 E: 514906.9315	93+52.90	N: 1138402.0091 E: 514949.5845	93+09.46
C51	122.00'	96.54	N: 1138391.2935 E: 514906.9315	93+52.90	N: 1138405.3008 E: 514813.9427	94+49.44	N: 1138378.8780 E: 514857.5119	94+03.86
C52	322.00'	57.73'	N: 1138405.3008 E: 514813.9427	94+49.44	N: 1138439.4915 E: 514767.5189	95+07.17	N:1138420.3097 E:514789.1941	94+78.38
C53	69.00'	42.27'	N: 1138497.2413 E: 514702.2624	95+94.31	N: 1138514.1381 E: 514664.2384	96+36.58	N: 1138511.7020 E: 514685.9221	96+16.13
C54	79.00'	79.94'	N: 1138514.8833 E: 514657.6055	96+43.25	N: 1138485.4850 E: 514586.9030	97+23.19	N: 1138519.7700 E: 514614.1104	96+87.02
C55	96.00'	149.10'	N: 1138478.5903 E: 514581.4316	97+31.99	N: 1138462.0227 E: 514447.8971	98+81.09	N: 1138404.7102 E: 514522.8029	98+26.31
C56	15911.82	65.25	N: 1138518.9976 E: 514362.7342	99+83.67	N: 1138551.9969 E: 514306.4408	100+48.93	N: 1138535.5550 E: 514334.6213	100+16.3
C57	79.00'	87.05	N: 1138551.9969 E: 514306.4408	100+48.93	N: 1138550.2817 E: 514223.7459	101+35.98	N: 1138576.5438 E: 514264.5664	100+97.4
C58	56767.94'	57.39'	N: 1138550.2817 E: 514223.7459	101+35.98	N: 1138519.2305 E: 514175.4813	101+93.37	N: 1138534.7683 E: 514199.6058	101+64.6
C59	225.97	167.02'	N: 1138519.2305 E: 514175.4813	101+93.37	N: 1138384.5059 E: 514083.2893	103+60.39	N: 1138469.7243 E: 514103.2913	102+80.9
C60	290.48	44.27	N: 1138384.5059 E: 514083.2893	103+60.39	N: 1138341.1402 E: 514074.6022	104+04.66	N: 1138363.1546 E: 514077.2902	103+82.5
C61	269,56'	131.62'	N: 1138341.1402 E: 514074.6022	104+04.66	N:1138211.9615 E: 514091.8209	105+36.29	N: 1138274.4061 E: 514067.1211	104+71.82
C62	122.37'	176.58	N: 1138067.8036 E: 514148.1703	106+91.07	N:1137916.3574 E:514091.6329	108+67.65	N: 1137967.2128 E: 514186,5146	107+98.7
C63	318.00'	70.72'	N: 1137846.3296 E: 513974.3394	110+04.26	N: 1137804.2388 E: 513917.6892	110+74,98	N: 1137828.4469 E: 513943.6644	110+39.7
C64	282.00'	63.84'	N: 1137748.0595 E: 513857.4089	111+57.38	N: 1137710.1697 E: 513806.2000	112+21.22	N: 1137726.2040 E: 513833.9580	111+89,44
C65	282.00'	57.80'	N: 1137613.7390 E: 513639.2630	114+14.01	N:1137590.1422 E:513586.6134	114+71.80	N: 1137599.2335 E: 513614.1515	114+43.01
C66	318.00'	69.32'	N: 1137563.0811 E: 513504.6433	115+58.13	N: 1137534.3762 E: 513441.6983	116+27.44	N: 1137552.1725 E: 513471.6003	115+92.92
C67	5370.96	67.01'	N: 1137526.2087 E: 513427.9751	116+43.41	N: 1137488.8169 E: 513372.3639	117+10.43	N: 1137507.6863 E: 513400.0528	116+76.92
C68	394.42'	82.59'	N: 1137488.8169 E: 513372.3639	117+10.43	N: 1137443, 1701 E: 513303, 7172	117+93.62	N: 1137462.3868 £/513340.4389	117+51.87
C69	80.12'		N:1137043.3186 E:512612.1435	125+91.95	N: 1137040 6152	100,000	N: 113/041.6140 E:512607:0085	125+97.36

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Kimley >>> Horn
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KHA PROJECT 148400015 DATE 1/28/2020

SCALE AS SHOWN DESIGNED BY SNR DRAWN BY ASR CHECKED BY WEW MANATEE COUNTY

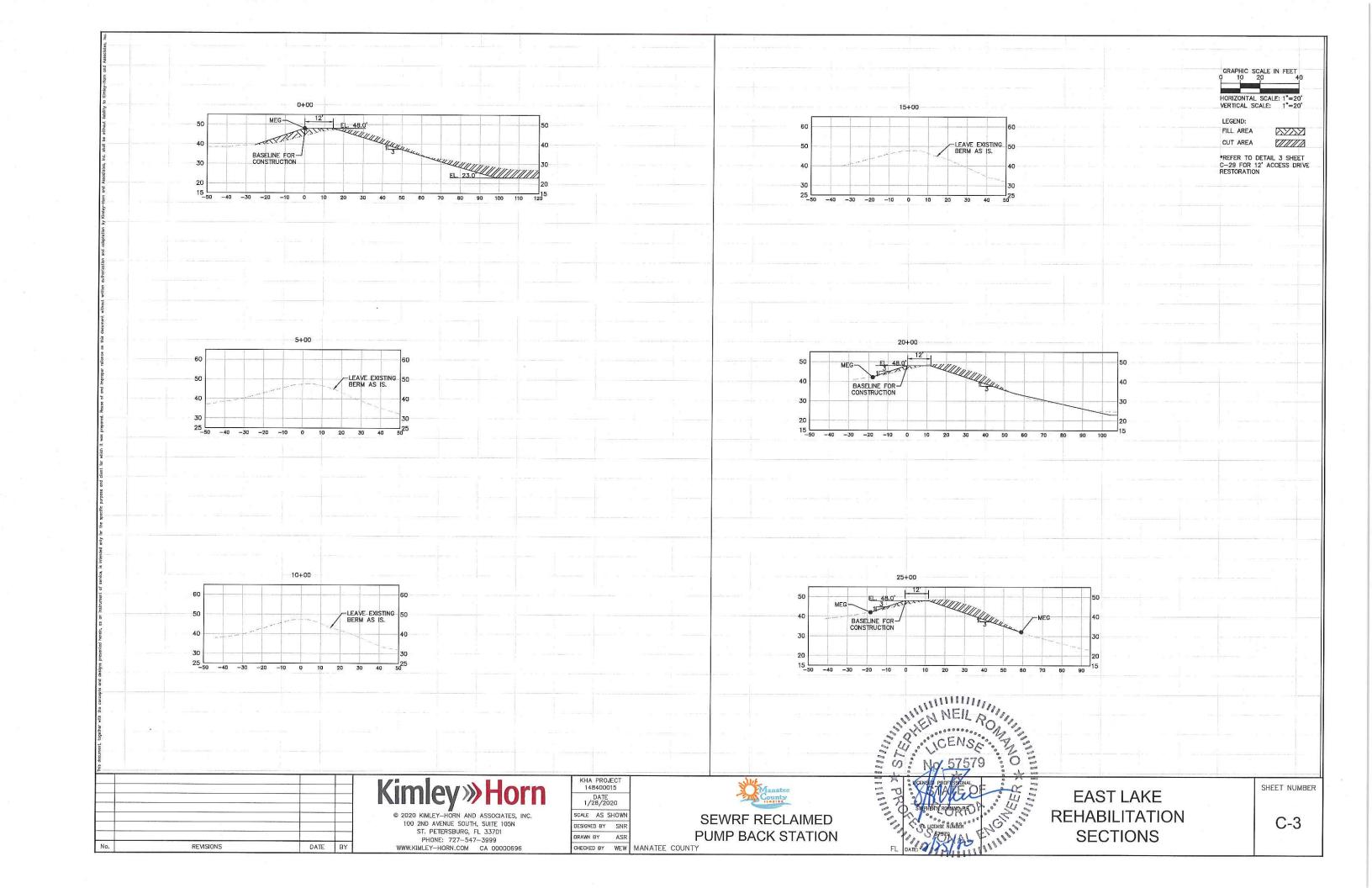


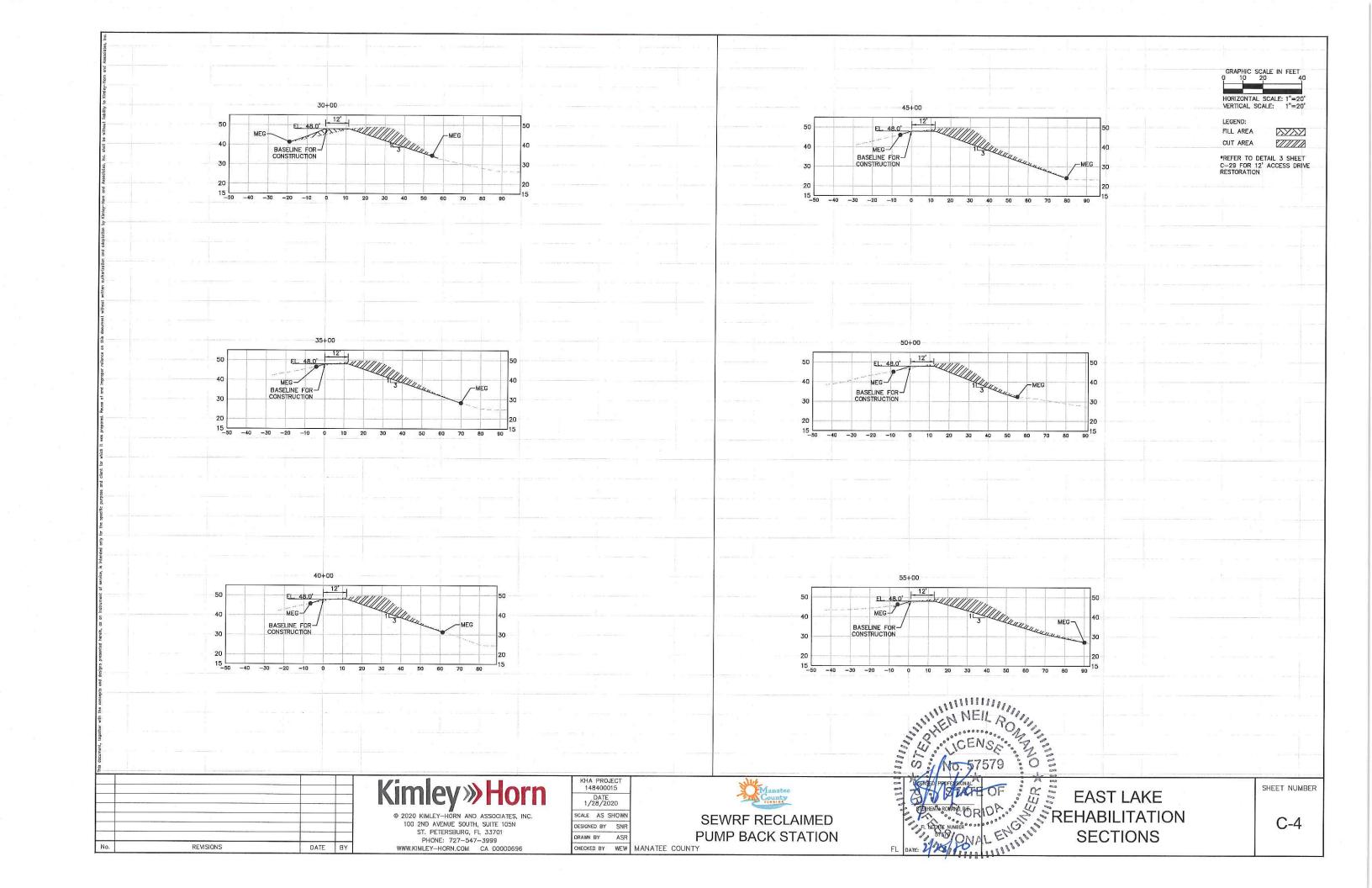
SEWRF RECLAIMED PUMP BACK STATION EAST LAKE

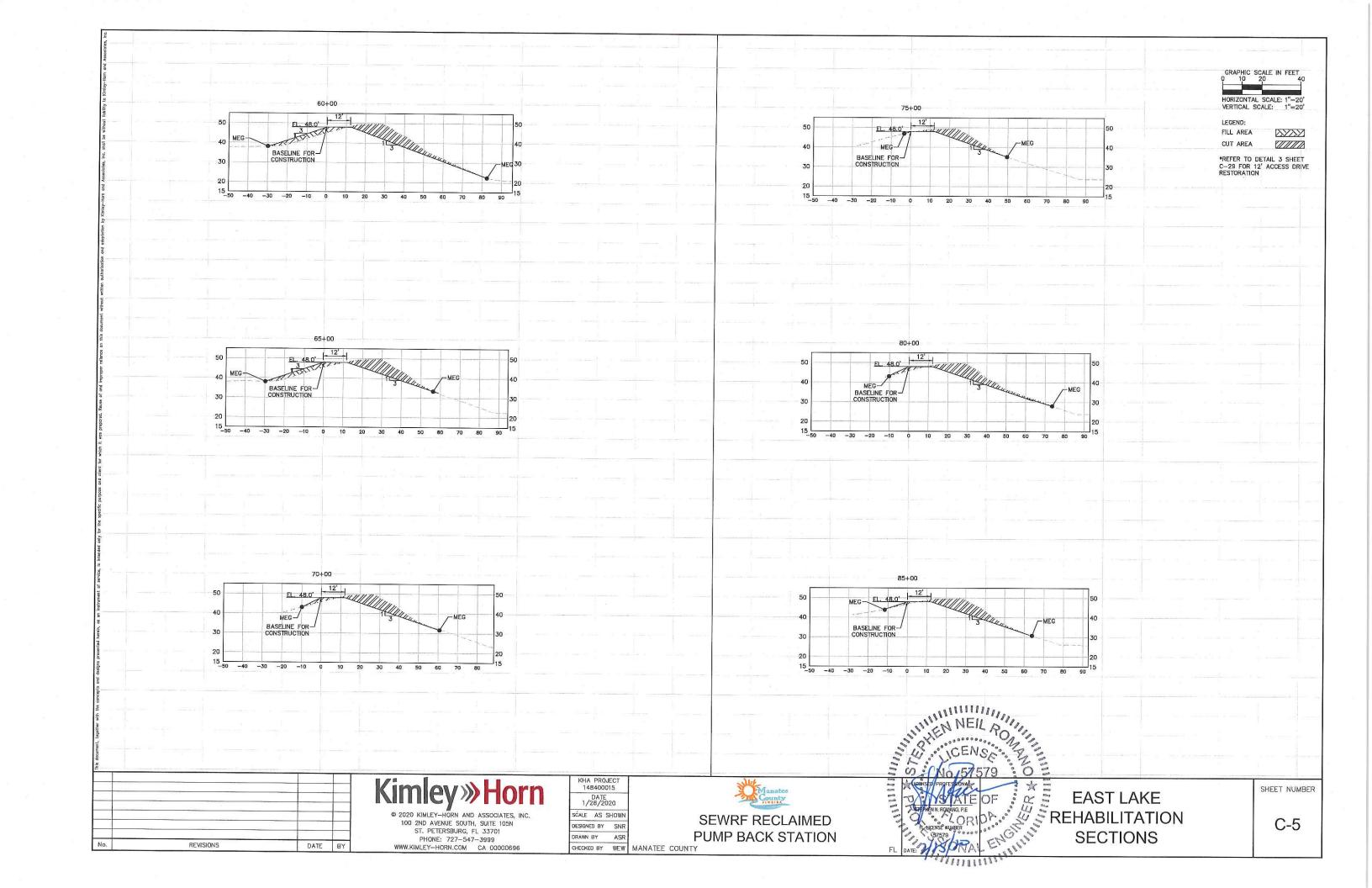
REHABILITATION CURVE

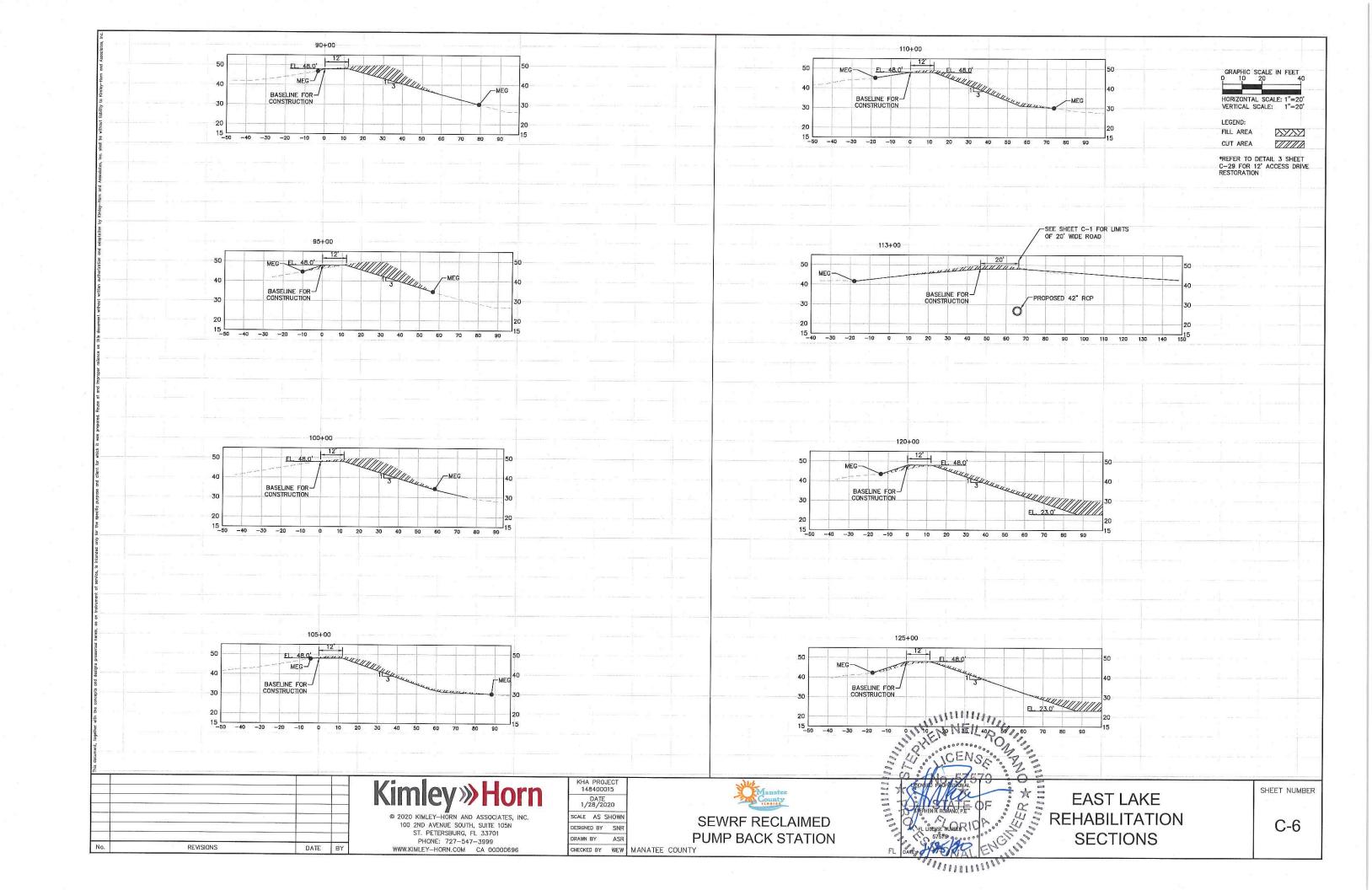
TABLES

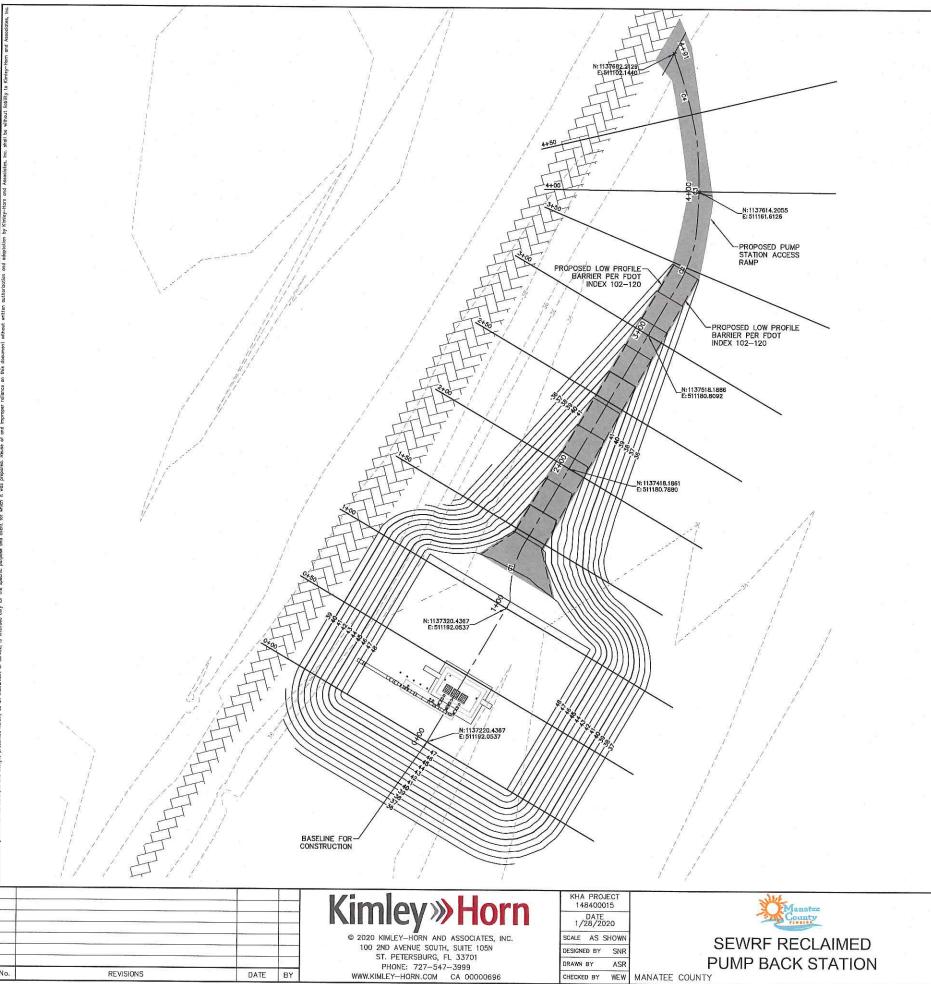
SHEET NUMBER









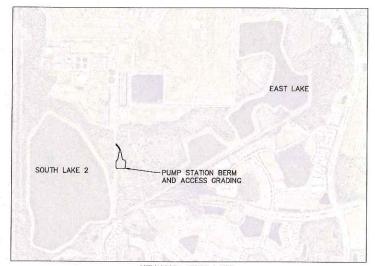


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CHECKED BY WEW MANATEE COUNTY

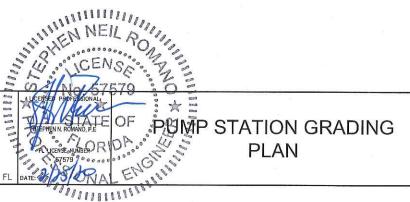




KEY MAP: EAST LAKE

PUMP STATION ACCESS	ROAD AND BERM CROSS SECTIONS
SHEET	STATION
C-8	0+00
C-8	0+50
C-8	1+00
C-8	1+50
C-8	2+00
C-8	2+50
C-8	3+00
B-0	3+50
C-9	4+00
C-9	4+50

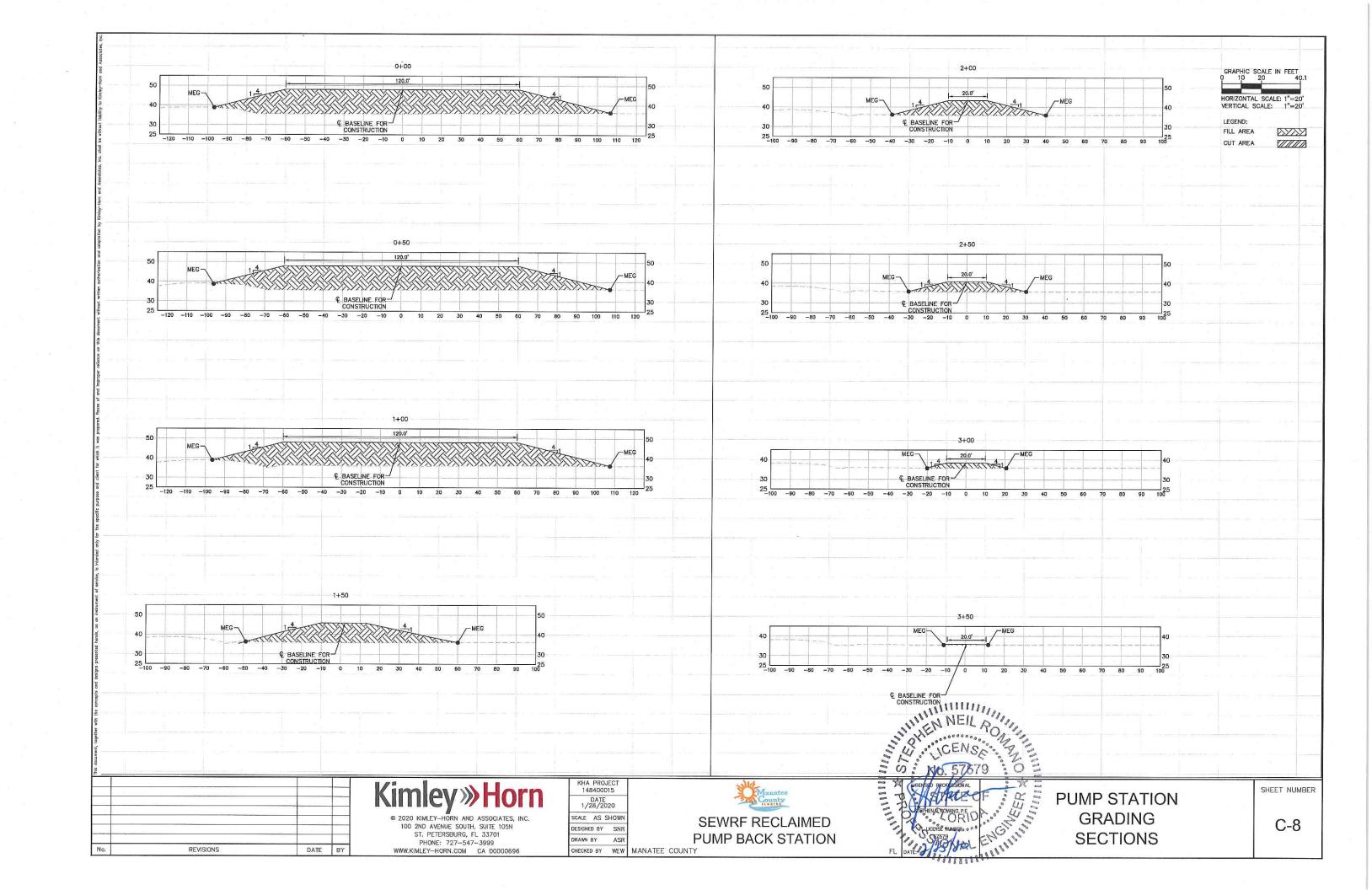
				CURV	E TABLE			
CURVE	RADIUS	LENGTH	START NORTHING EASTING	START STATION	END NORTHING EASTING	END STATION	PI NORTHING EASTING	PI STATION
C1	67.38	42.37'	N: 1137325.4566 E: 511192.0537	1+05.02	N: 1137365.5725 E: 511180.7768	1+47.39	N: 1137343.6810 E: 511179.8928	1+26.93
C2	112.82'	39.84	N: 1137545.7369 E: 511180.8151	3+27.55	N: 1137585.1134 E: 511176.3150	3+67.39	N: 1137565.8266 E: 511182.0779	3+47.68
C3	301.76	66.02'	N: 1137585.1134 E: 511176.3150	3+67.39	N: 1137642.1842 E: 511143.3798	4+33.41	N: 1137615.4576 E: 511162.9816	4+00.53
C4	315.30'	57.55'	N: 1137642.1842 E: 511143.3798	4+33.41	N: 1137682.2129 E: 511102.1439	4+90.96	N: 1137664.0855 E: 511124.5935	4+62.27

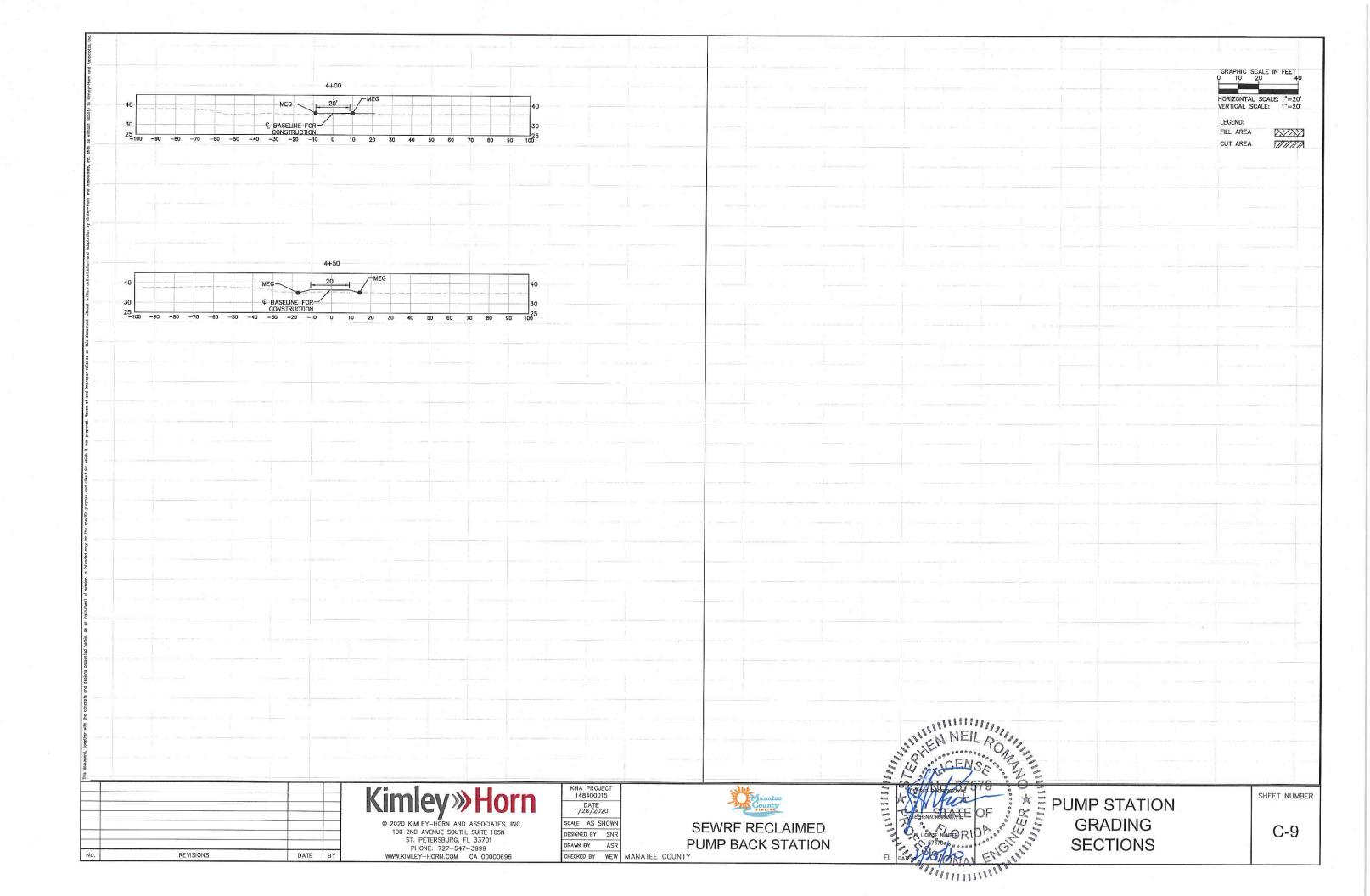


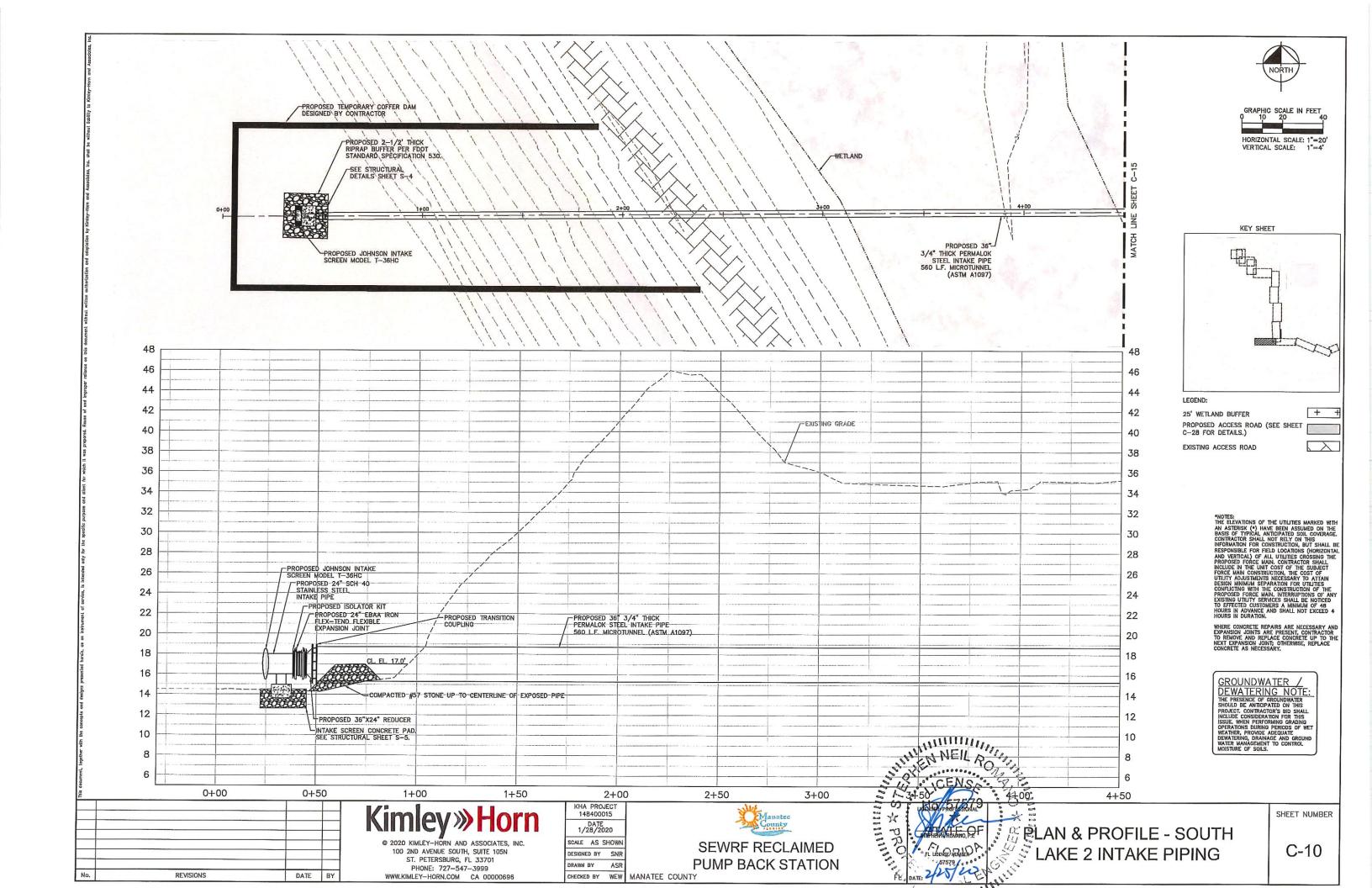
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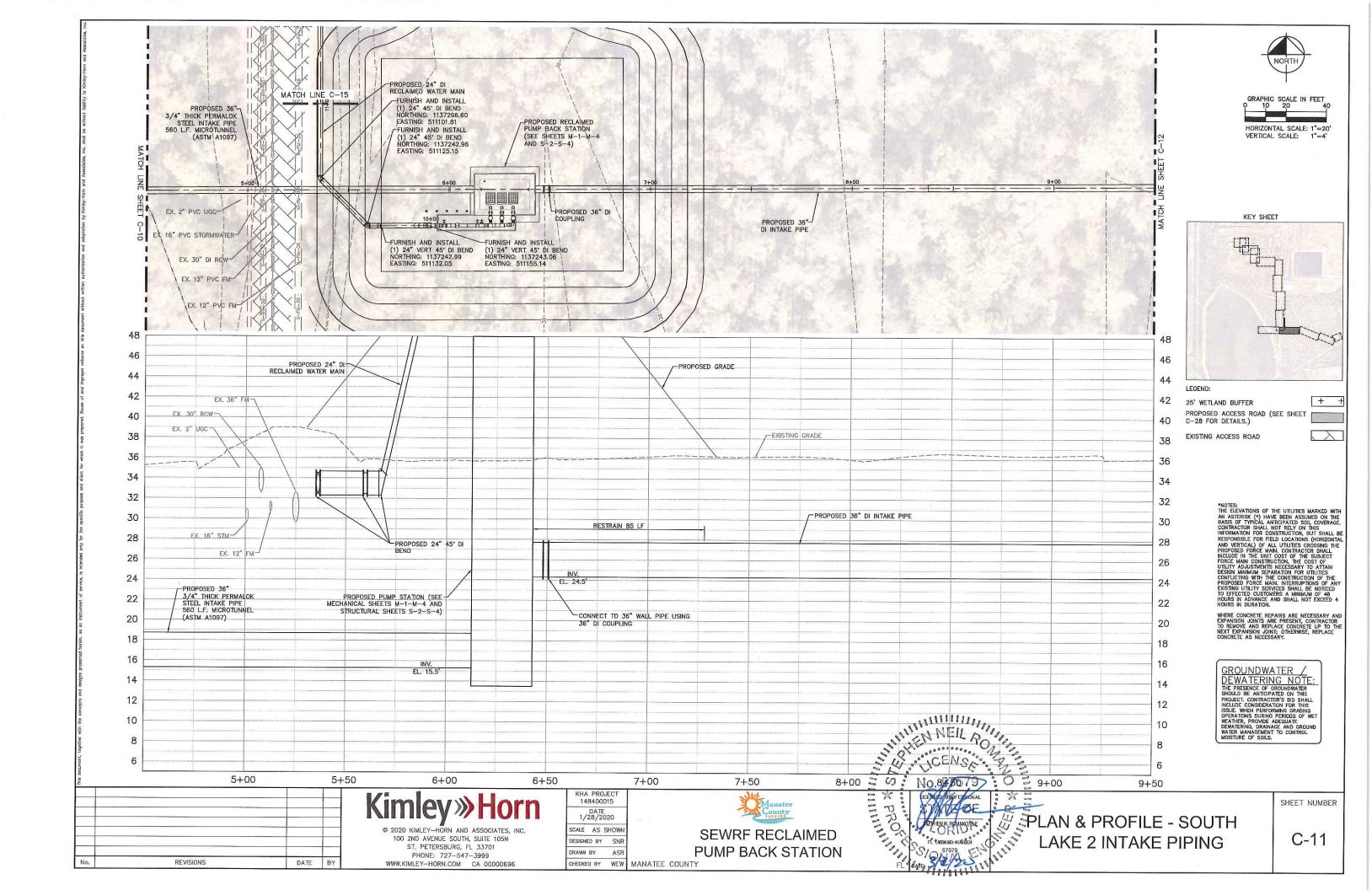
C-7

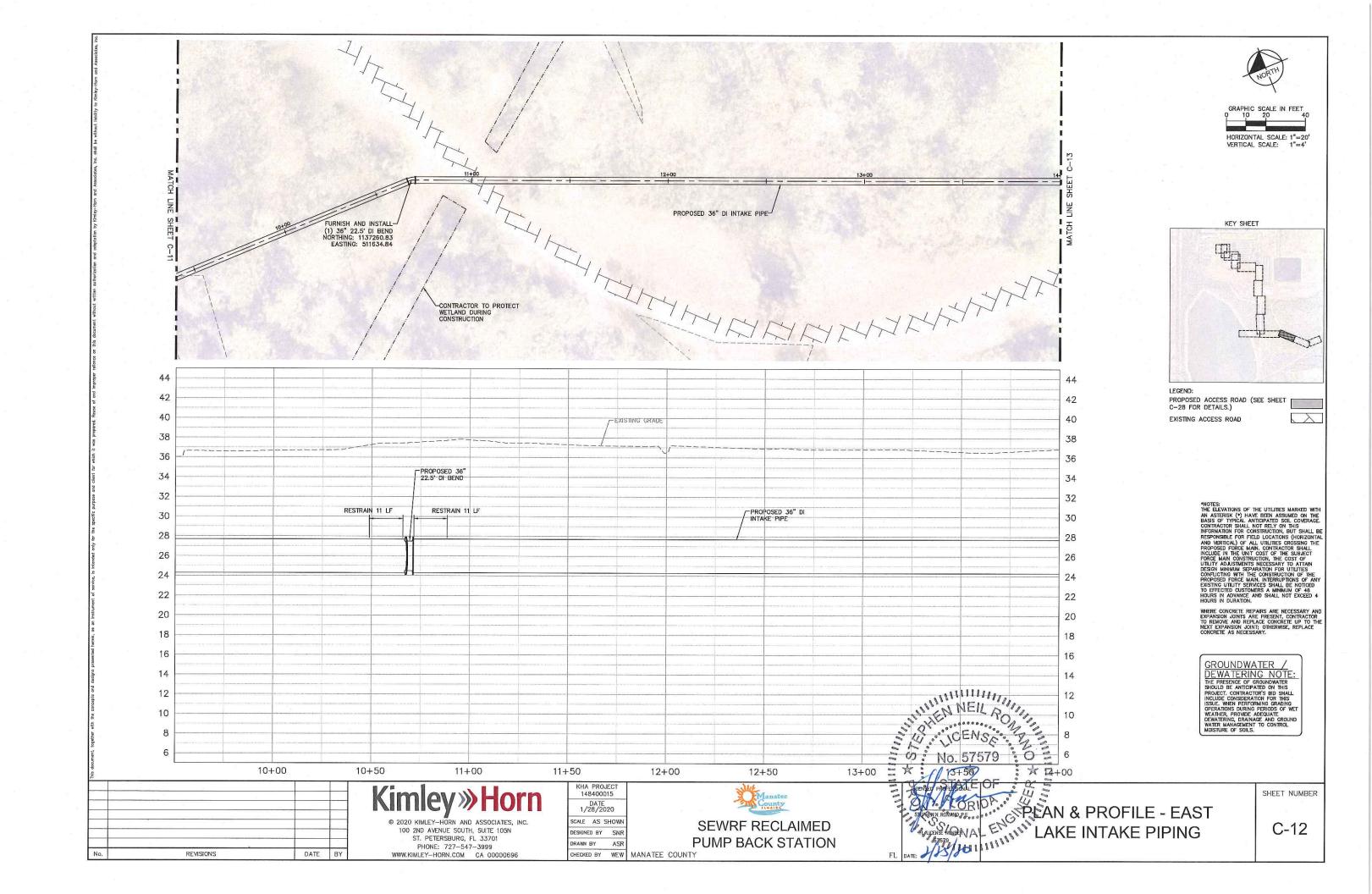
PUMP BACK STATION

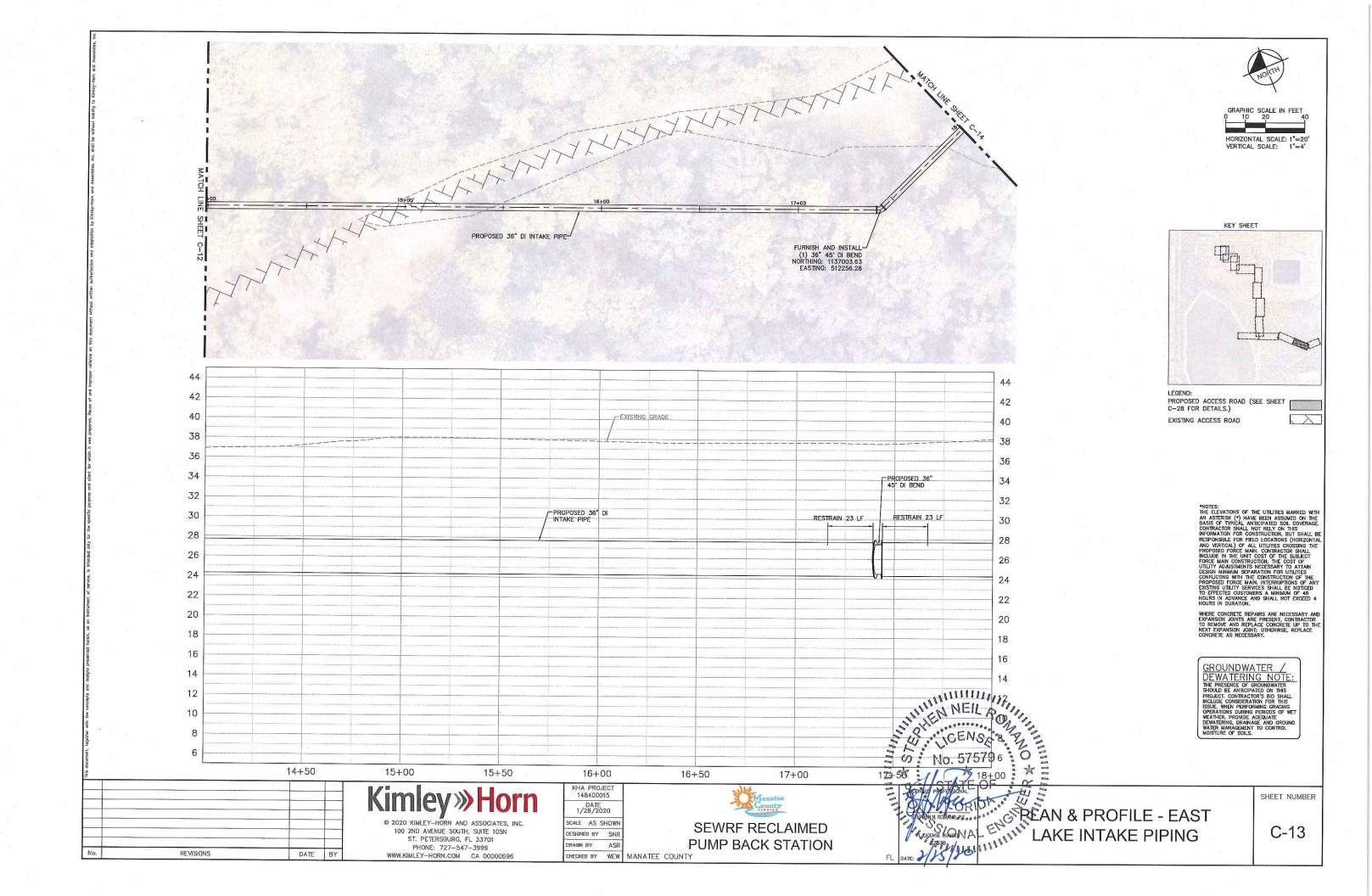


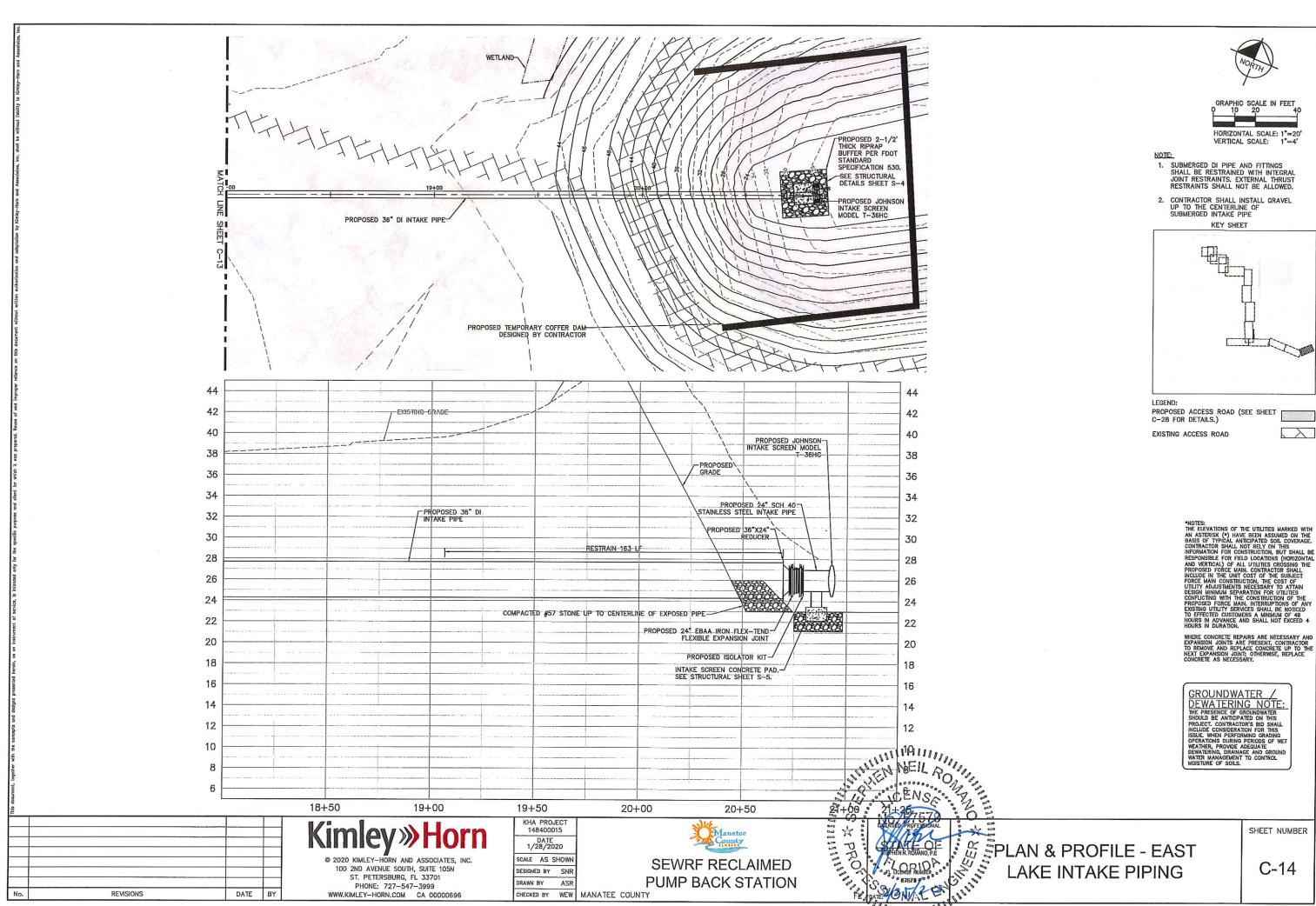


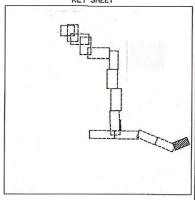


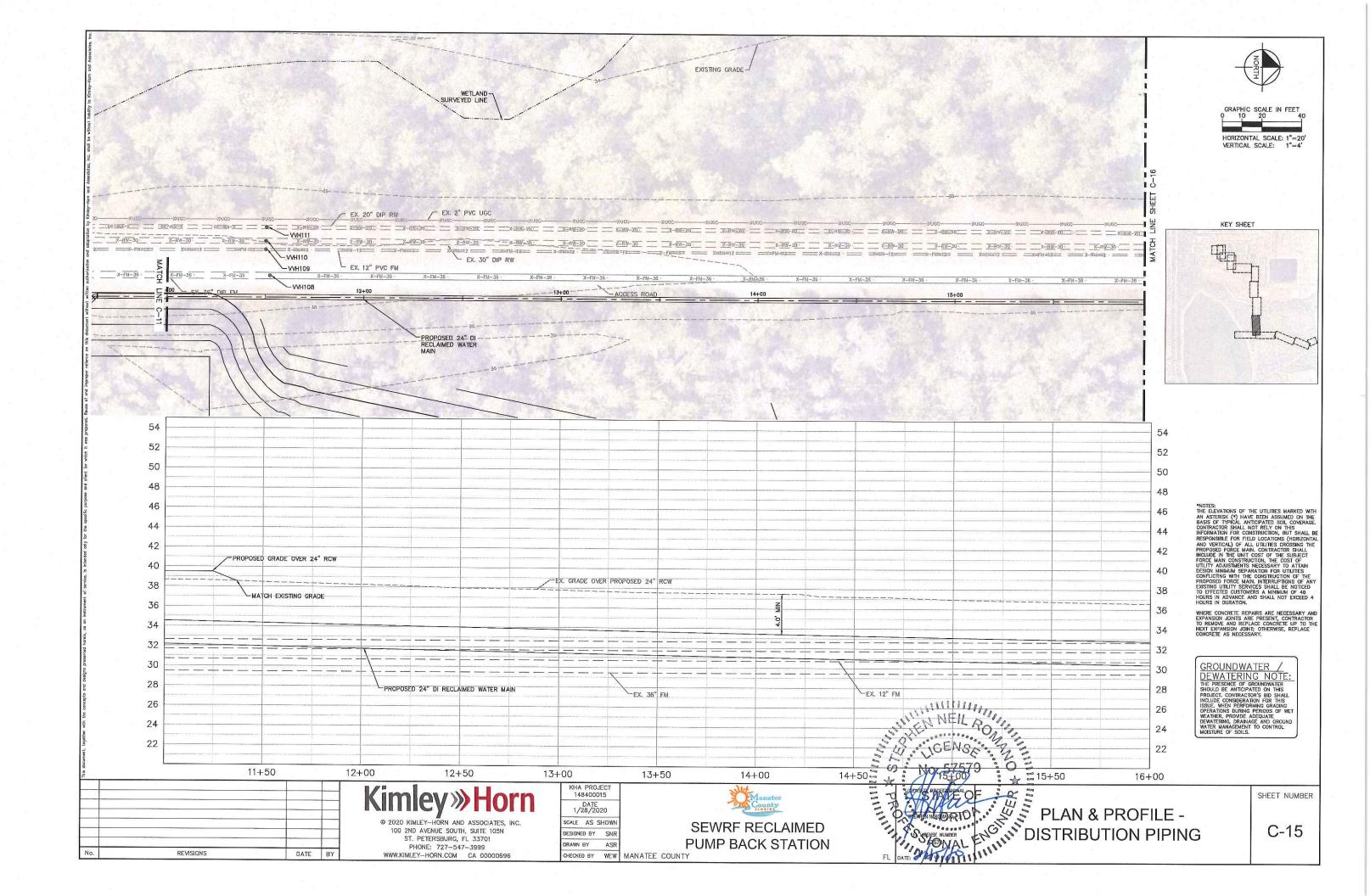


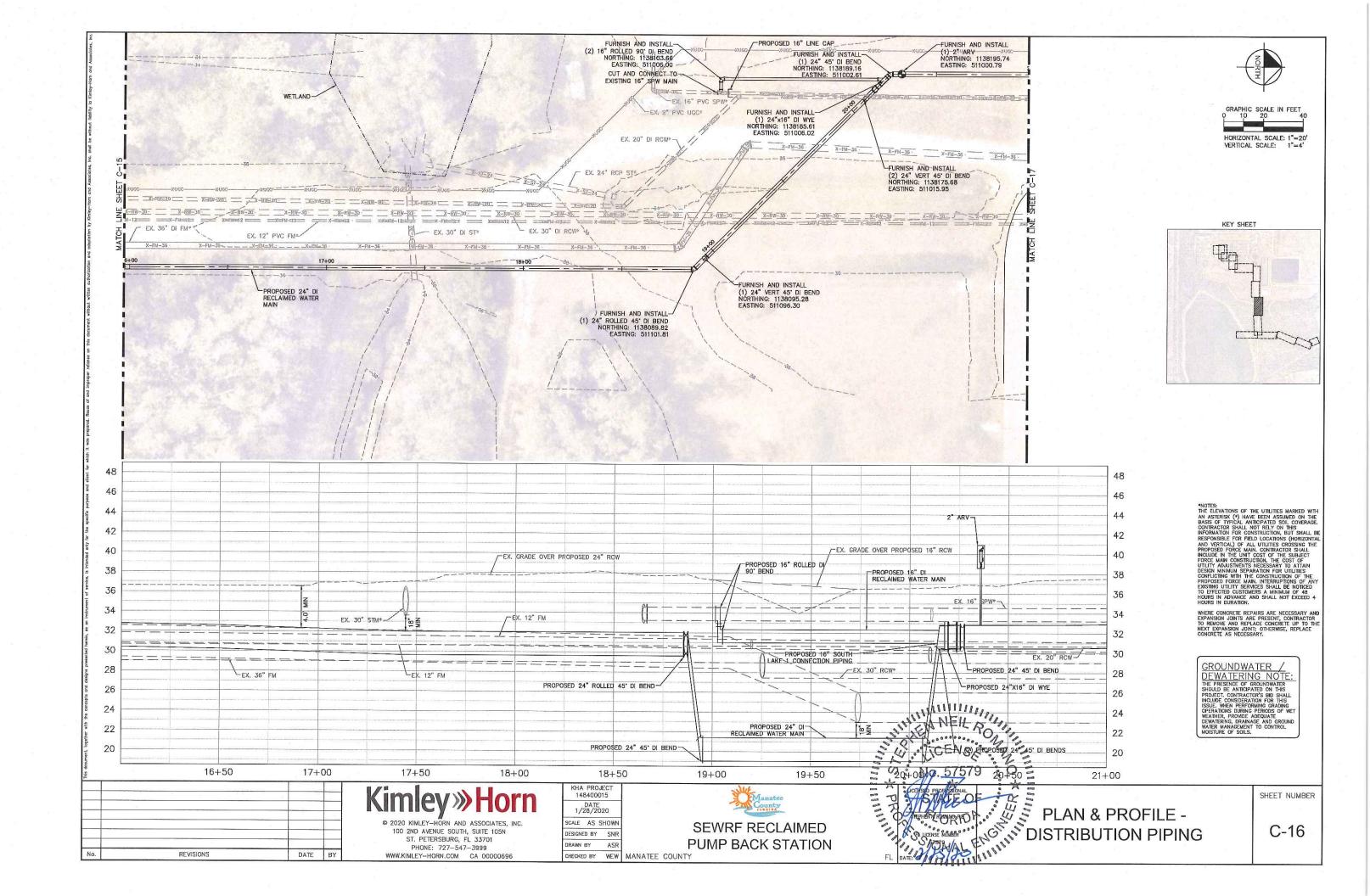


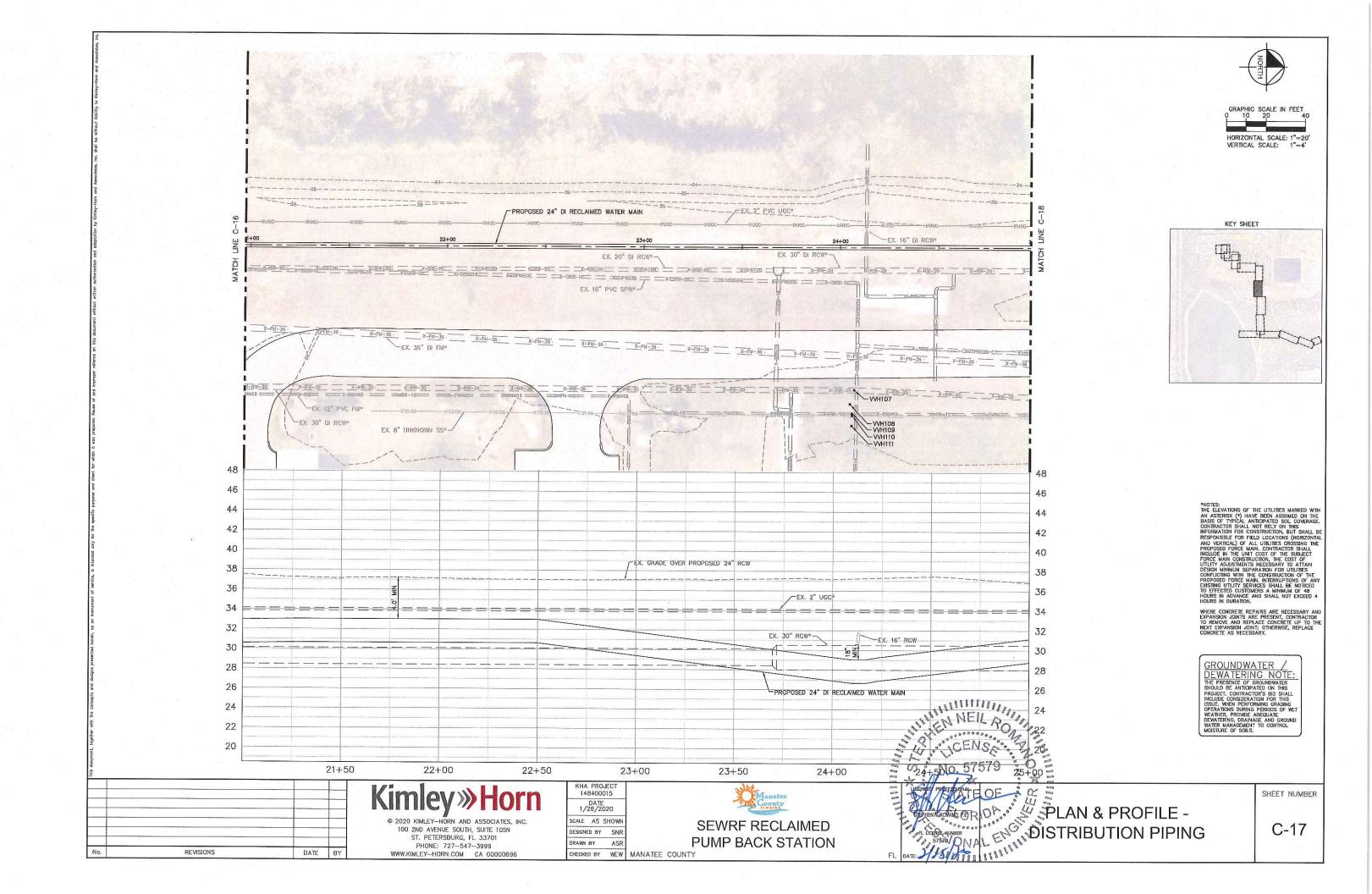


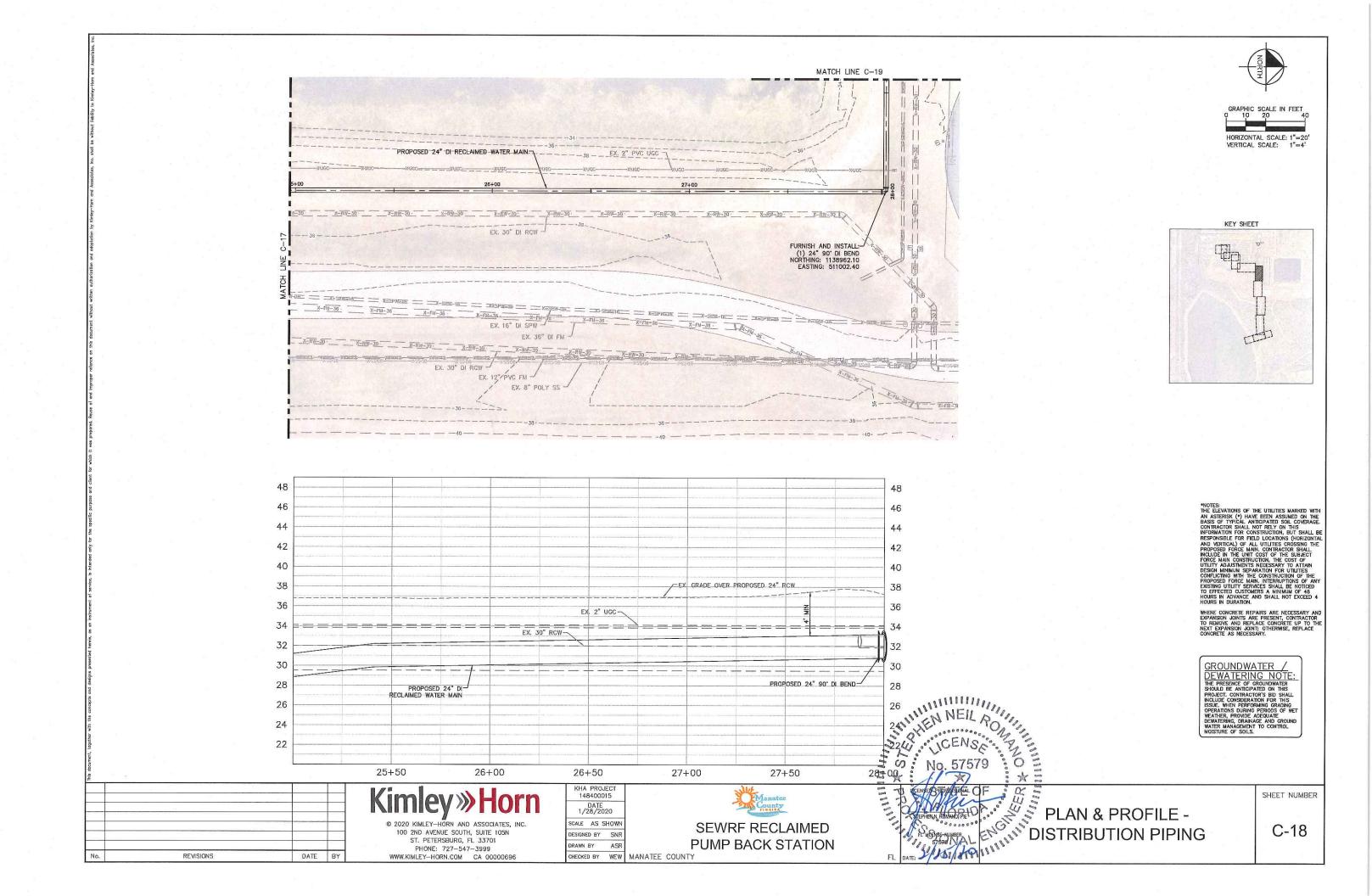


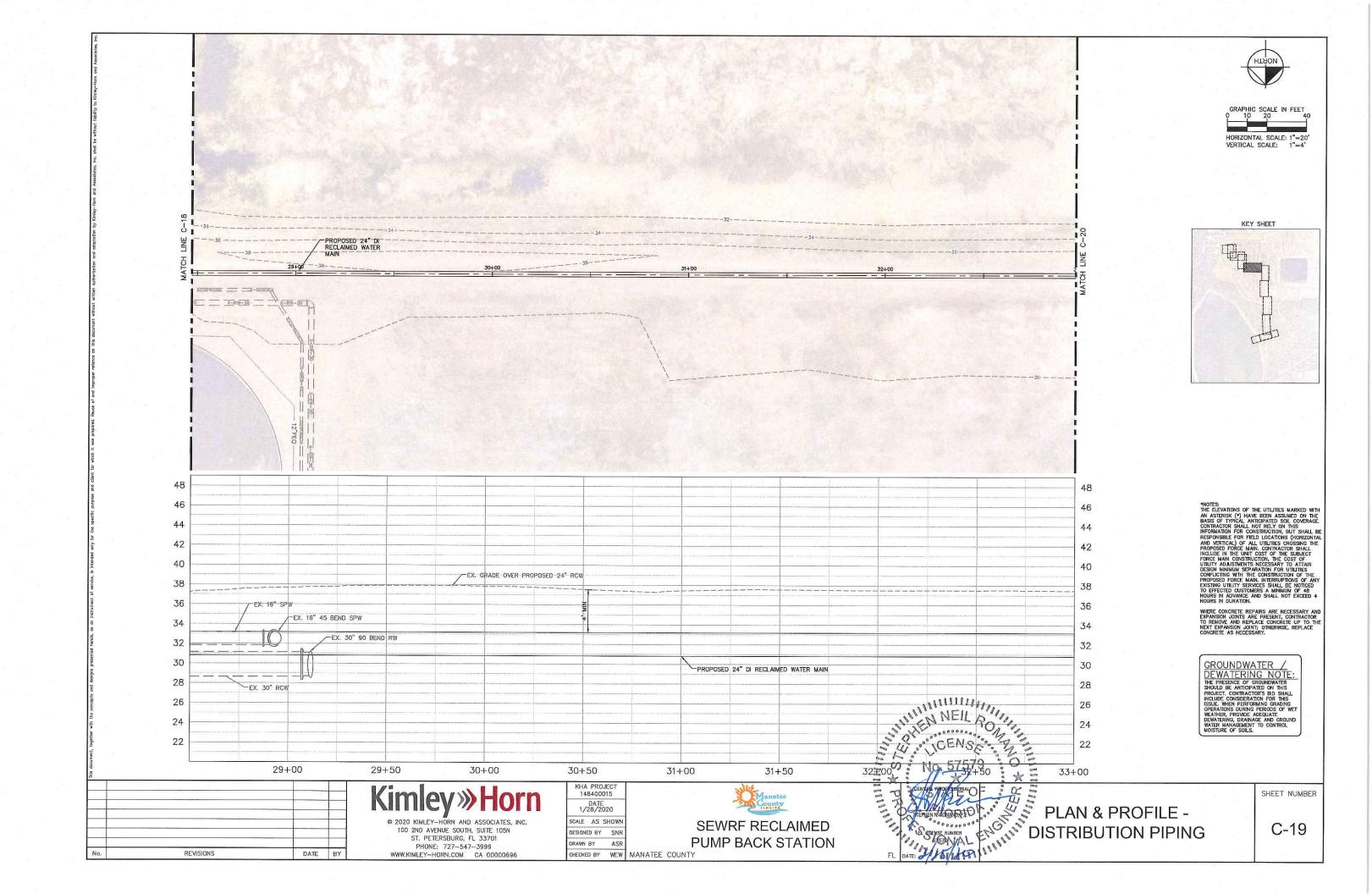


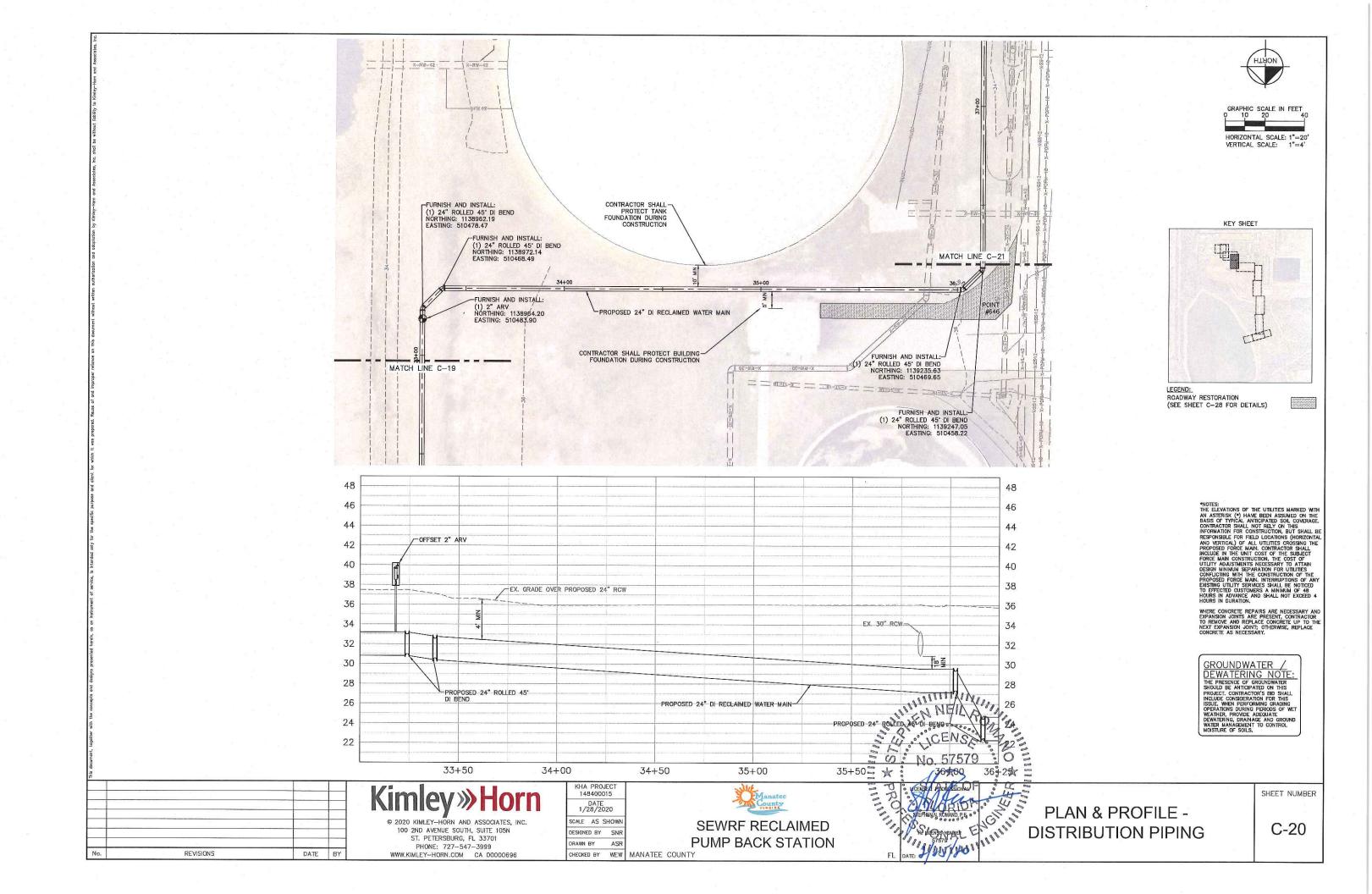


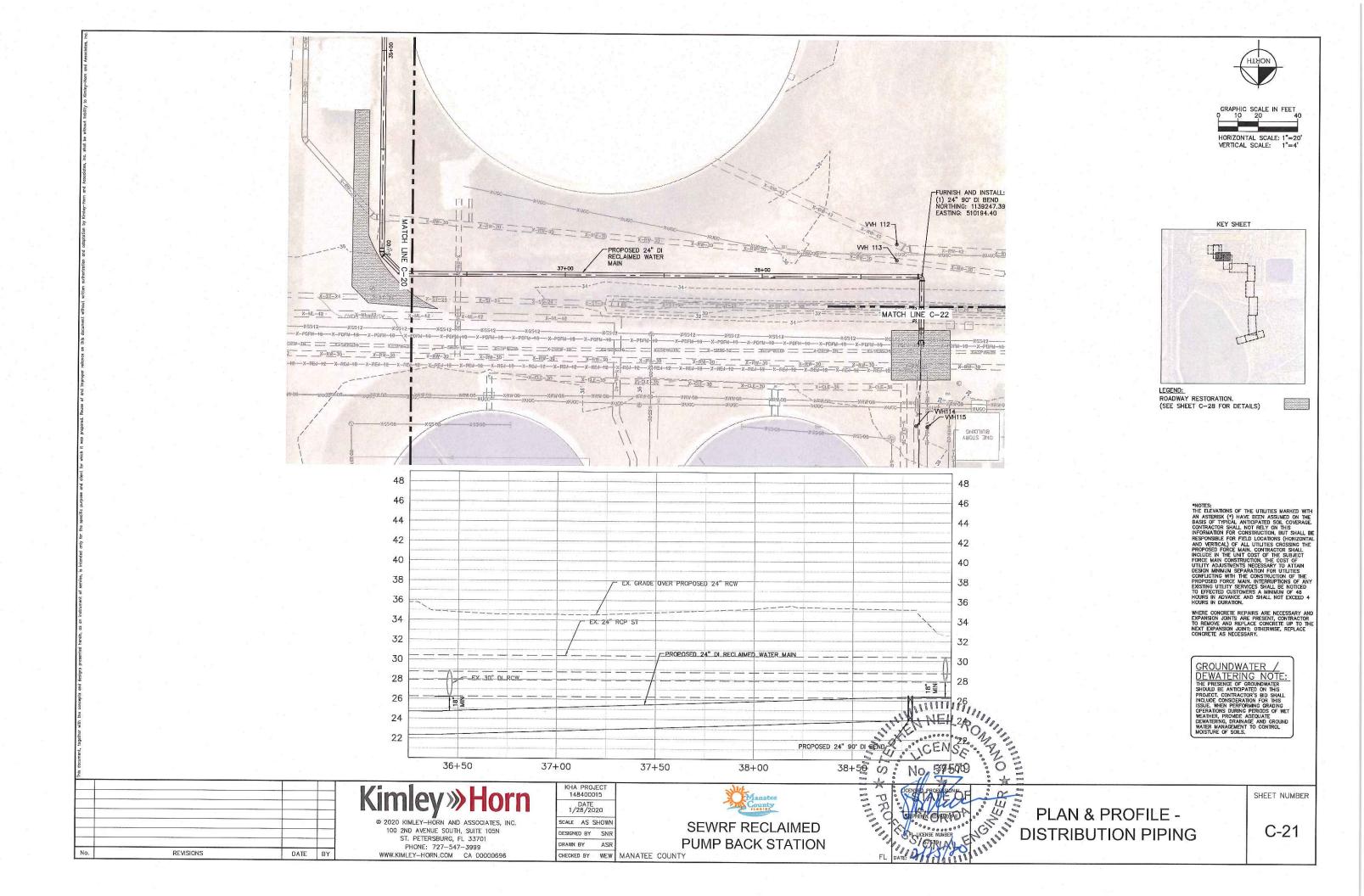


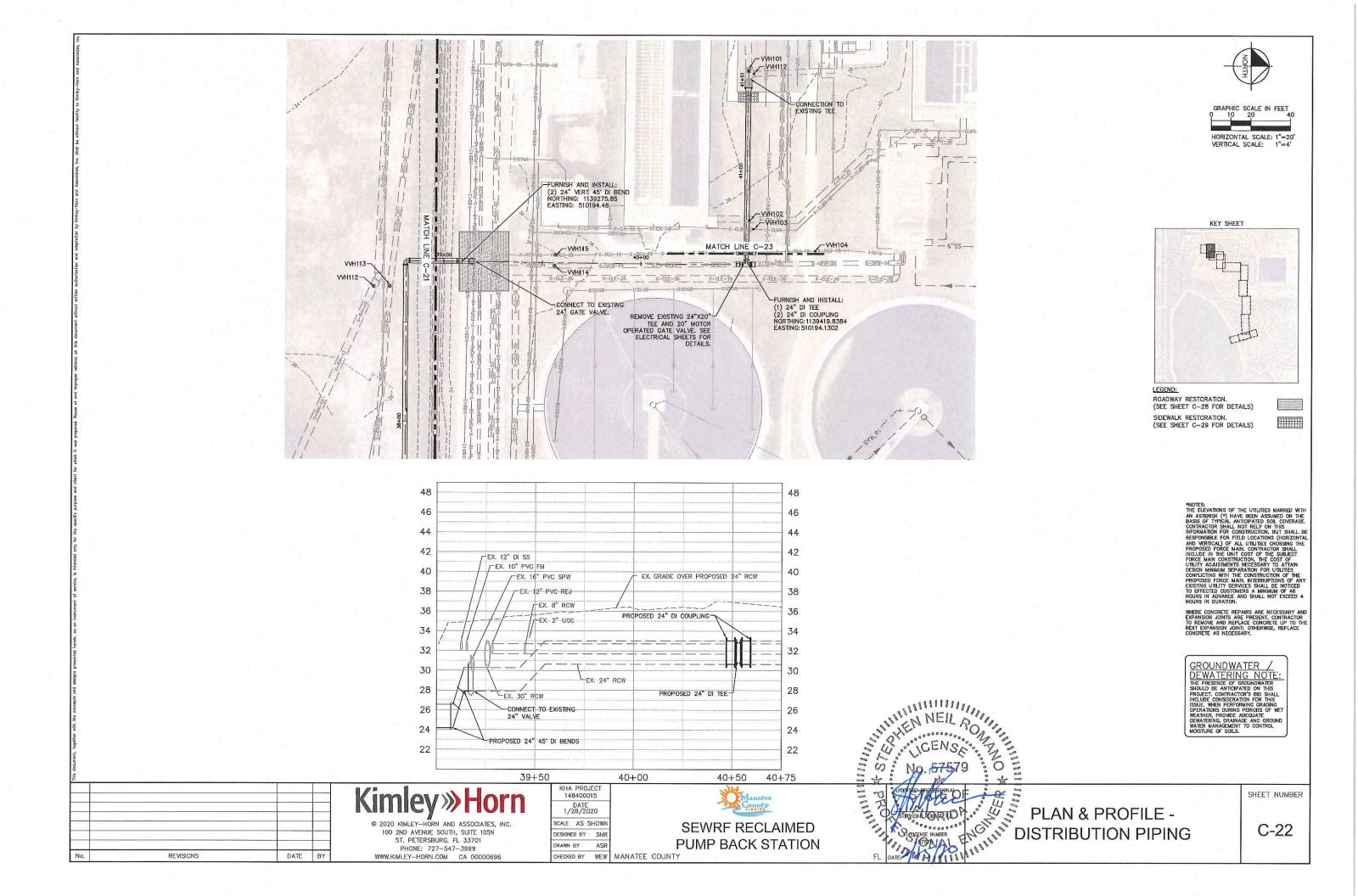


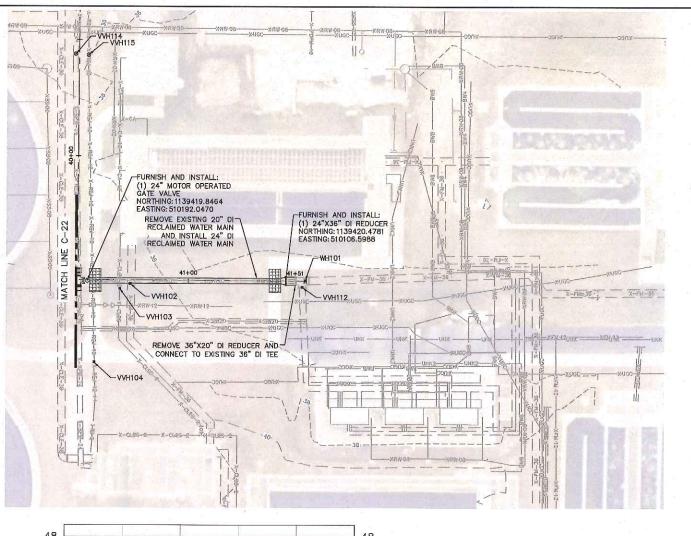


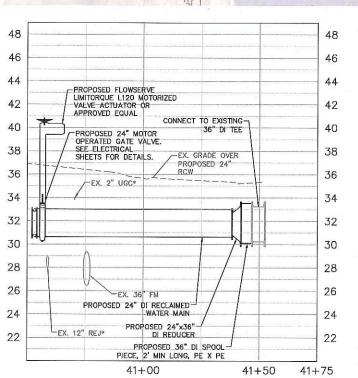


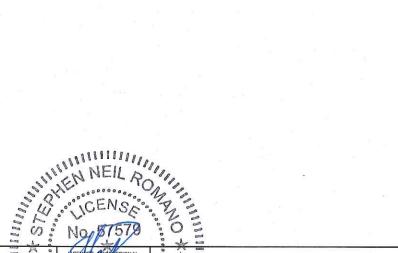






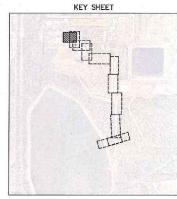






GRAPHIC SCALE IN FEET HORIZONTAL SCALE: 1"=20" VERTICAL SCALE: 1"=4"

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LEGEND: SIDEWALK RESTORATION. (SEE SHEET C-29 FOR DETAILS)

*NOTES:
THE ELEVATIONS OF THE UTILITIES MARKED WITH
AN ASTERISK (*) HAVE BEEN ASSUMED ON THE
BASIS OF TYPICAL ANTICIPATED SOIL COVERAGE.
CONTRACTOR SHALL NOT RELY ON THIS
INFORMATION FOR CONSTRUCTION, BUT SHALL BE
RESPONSIBLE FOR FIELD LOCATIONS (HORIZONTAL
AND VERTICAL) OF ALL UTILITIES CROSSING THE
PROPOSED FORCE MAIN. CONTRACTOR SHALL
INCLIDE IN THE UNIT COST OF THE SUBJECT
FORCE MAIN CONSTRUCTION FOR THE SUBJECT
FORCE MAIN CONSTRUCTION FOR UTILITIES
CONFLICTING WITH THE CONSTRUCTION OF THE
PROPOSED FORCE MAIN. INTERRUPTIONS OF ANY
USISTING UTILITY SERVICES SHALL BE NOTICED
TO EFFECTED CHOKING. SHALL BY
HOURS IN ADVANCE AND SHALL NOT EXCEED 4
HOURS IN DURATION.

WHERE CONCRETE REPAIRS ARE NECESSARY AND EXPANSION JOINTS ARE PRESENT, CONTRACTOR TO REMOVE AND REPLACE CONCRETE UP TO TH NEXT EXPANSION JOINT; OTHERWISE, REPLACE CONCRETE AS NECESSARY.

GROUNDWATER

DEWATERING NOTE:
THE PRESENCE OF GROUNDWATER
SHOULD BE ANTICIPATED ON THIS
PROJECT. CONTRACTOR'S BID SHALL
INCLUDE CONSIDERATION FOR THIS
ISSUE. WHEN PERFORMING GRADING
OPERATIONS DURING PERIODS OF WET
WEATHER, PROVIDE ADEQUATE
DEWATERING, DRAINAGE AND GROUND
WATER MANAGEMENT TO CONTROL
MOISTURE OF SOILS.

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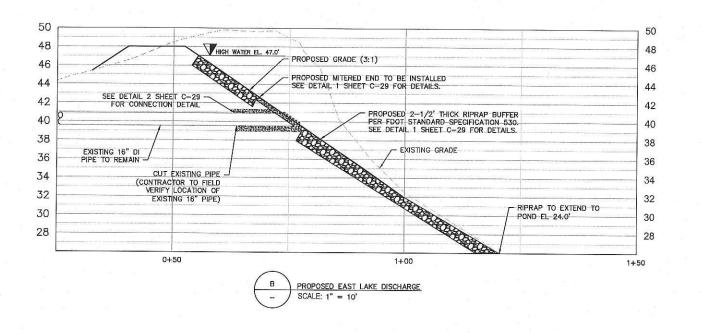
KHA PROJECT 148400015 DATE 1/28/2020

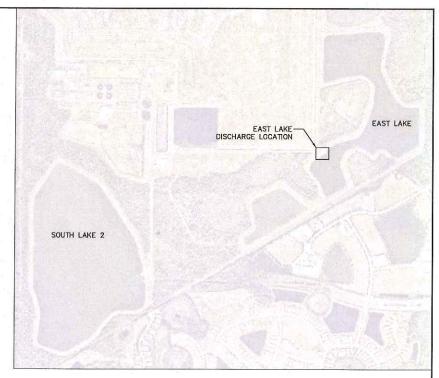
SCALE AS SHOWN DESIGNED BY SNR DRAWN BY ASR CHECKED BY WEW MANATEE COUNTY



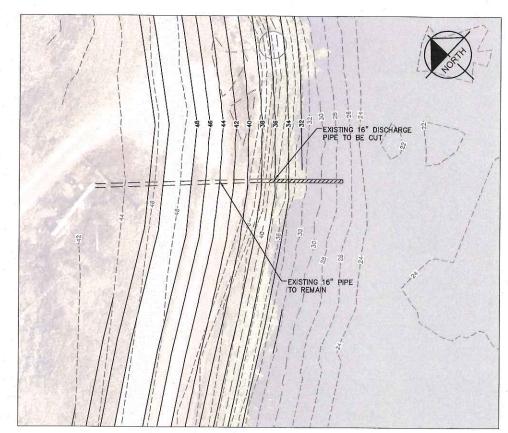
SEWRF RECLAIMED PUMP BACK STATION

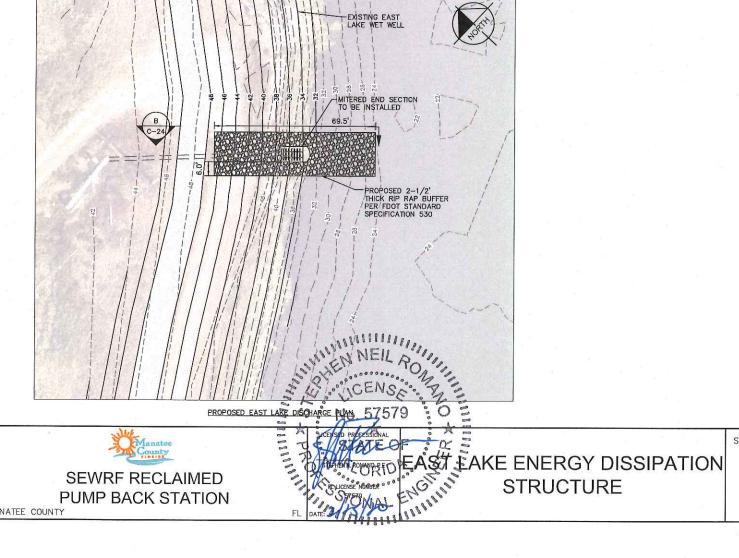
PLAN & PROFILE -**DISTRIBUTION PIPING** SHEET NUMBER





DISCHARGE LOCATION MAP OVERVIEW





EAST LAKE DISCHARGE DEMOLITION PLAN

DATE BY

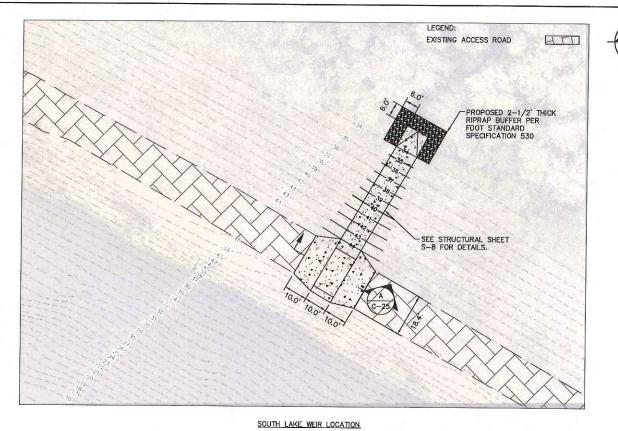
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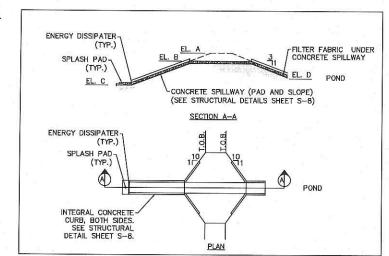
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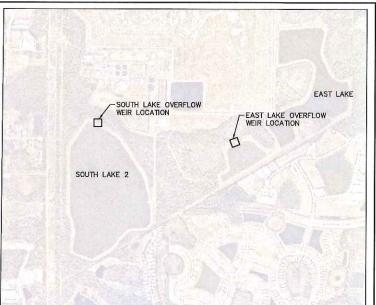
KHA PROJECT 148400015 DATE 1/28/2020

SCALE AS SHOW **SEWRF RECLAIMED** DESIGNED BY SNR PUMP BACK STATION DRAWN BY ASR CHECKED BY WEW MANATEE COUNTY

SHEET NUMBER



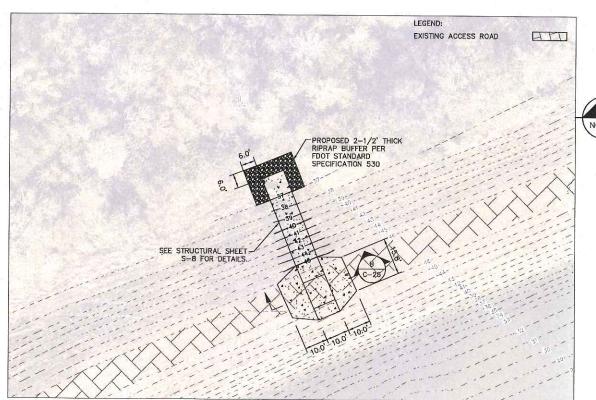


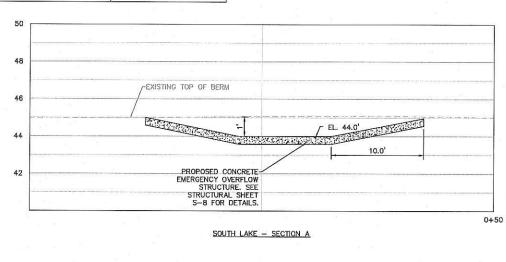


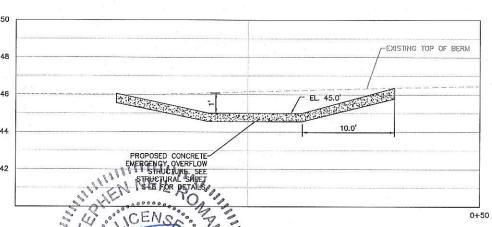
OVERFLOW DETAIL FOR SOUTH LAKE AND EAST LAKE

	ELEVATION TABLE	
DESCRIPTION	SOUTH LAKE	EAST LAKE
TOP OF BANK ELEVATION (A)	45.0'	46.0'
TOP OF WEIR ELEVATION (B)	44.0'	45.0'
SPLASH PAD ELEVATION (C)	34.0'	37.0'
POND SIDE ELEVATION (D)	42.0'	45.0'

OVERFLOW STRUCTURE LOCATION MAP







EAST LAKE WEIR LOCATION

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KHA PROJECT 148400015 DATE 1/28/2020 SCALE AS SHOWN DESIGNED BY SNF

DRAWN BY ASR

SEWRF RECLAIMED PUMP BACK STATION CHECKED BY WEW MANATEE COUNTY

OVERFLOW STRUCTURES SHEET NUMBER

