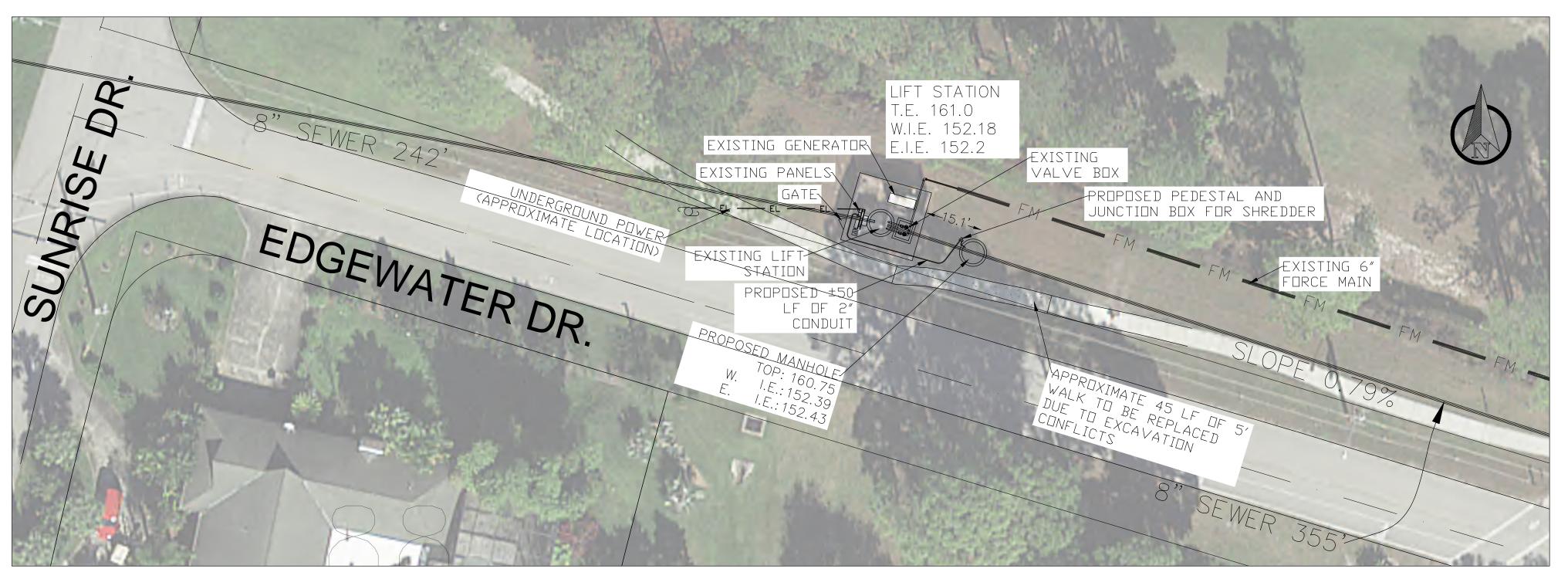
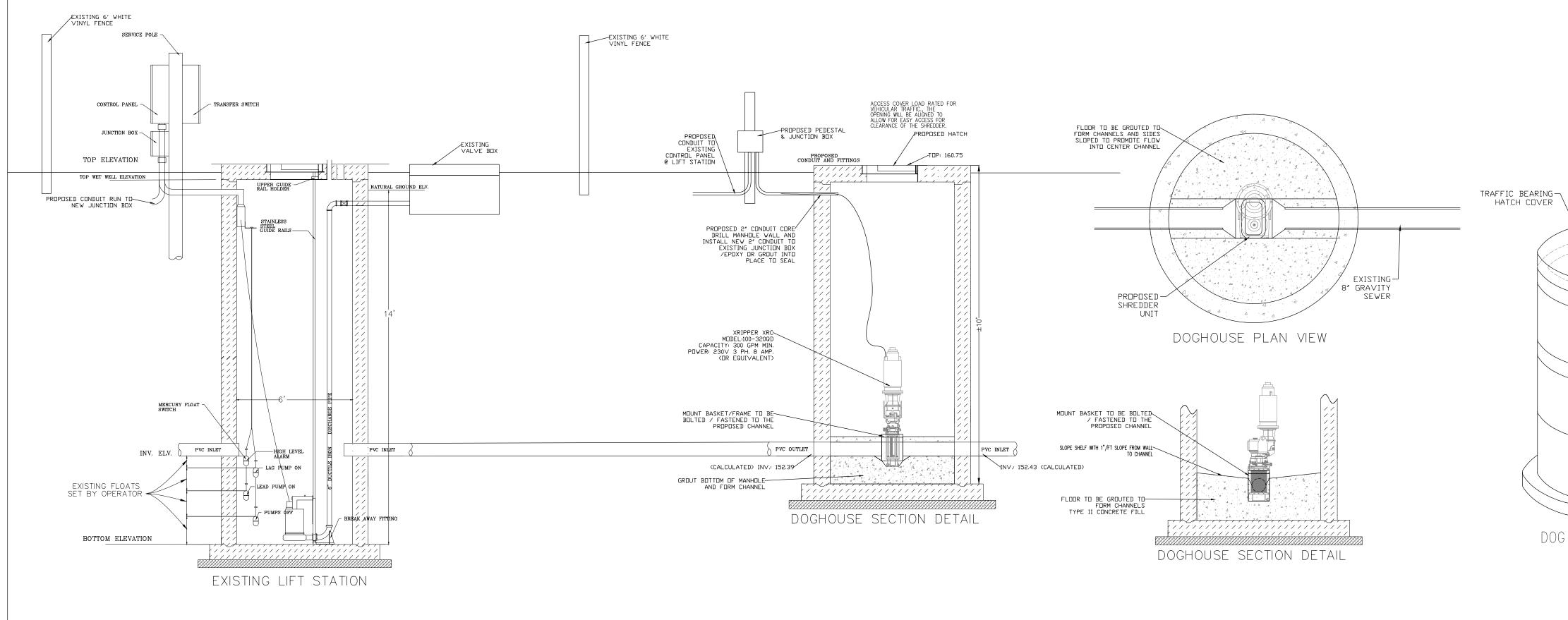
## LEGEND ABBREVIATION SYMBOL CENTER LIN DIRECTION OF WATER FLOW EXISTING OR PROPOSED GRADE EDGE OF PAVEMEN × ELEV.00 🗛 97.80 RIGHT-OF-WAY SOIL BORING LOCATION IRON ROF STREET LIGHT OUND IRON ROD PROPOSED CATCH BASIN ONCRETE MONUMEN WATER VALVE UTILITY AND DRAINAGE EASEMEN EXISTING POWER POLE REINFORCED CONCRETE PIPE RCP HIGH DENSITY POLYETHYLENE PIPE HDPF YP TOP ELEVATION INVERT FLEVATION

FOE OF SLOPE FINISHED FLOOR

SEASONAL HIGH WATER LEVEL



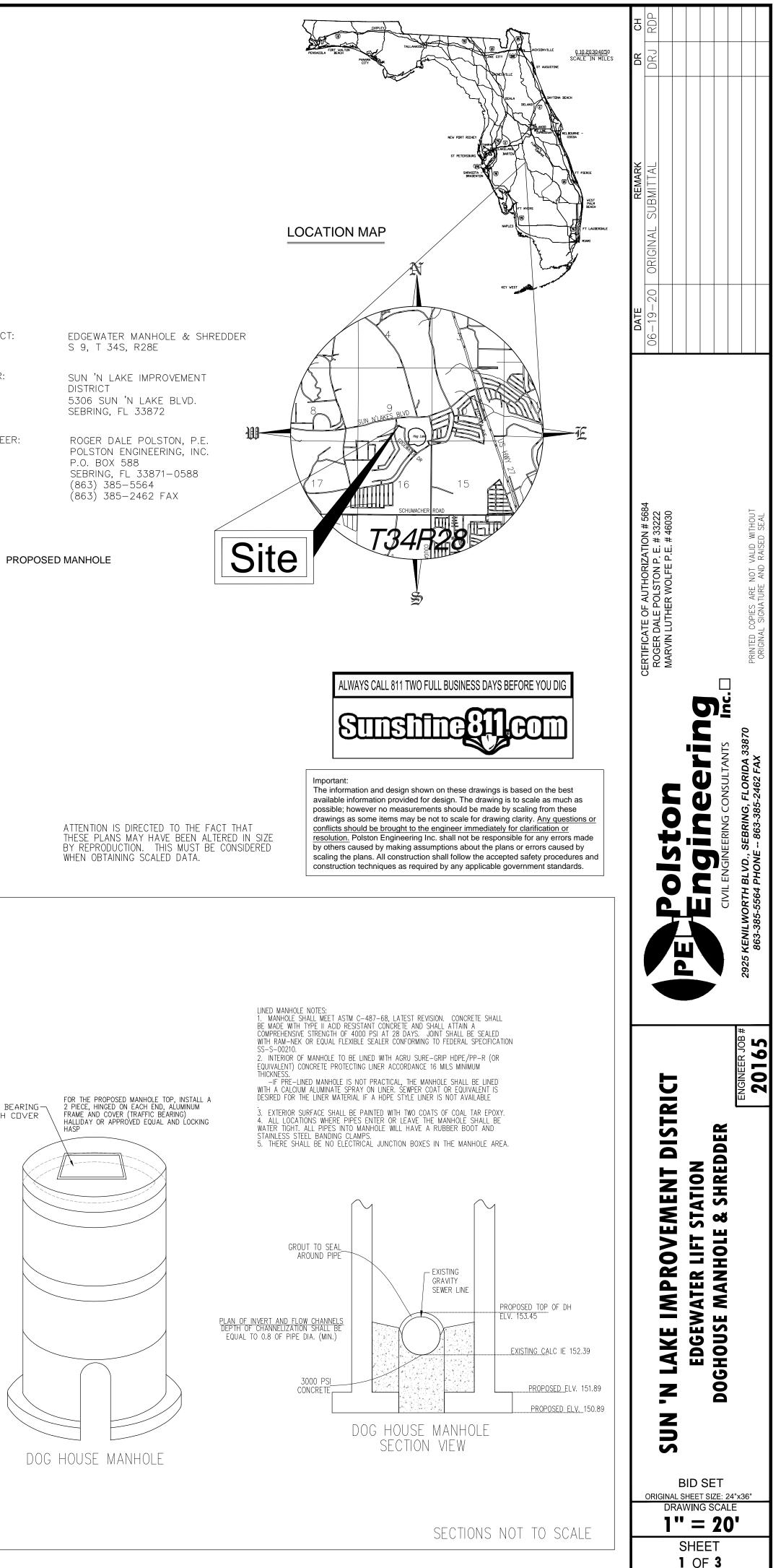


## SUN 'N LAKE OF SEBRING **IMPROVEMENT DISTRICT** EDGEWATER SEWER SHREDDER

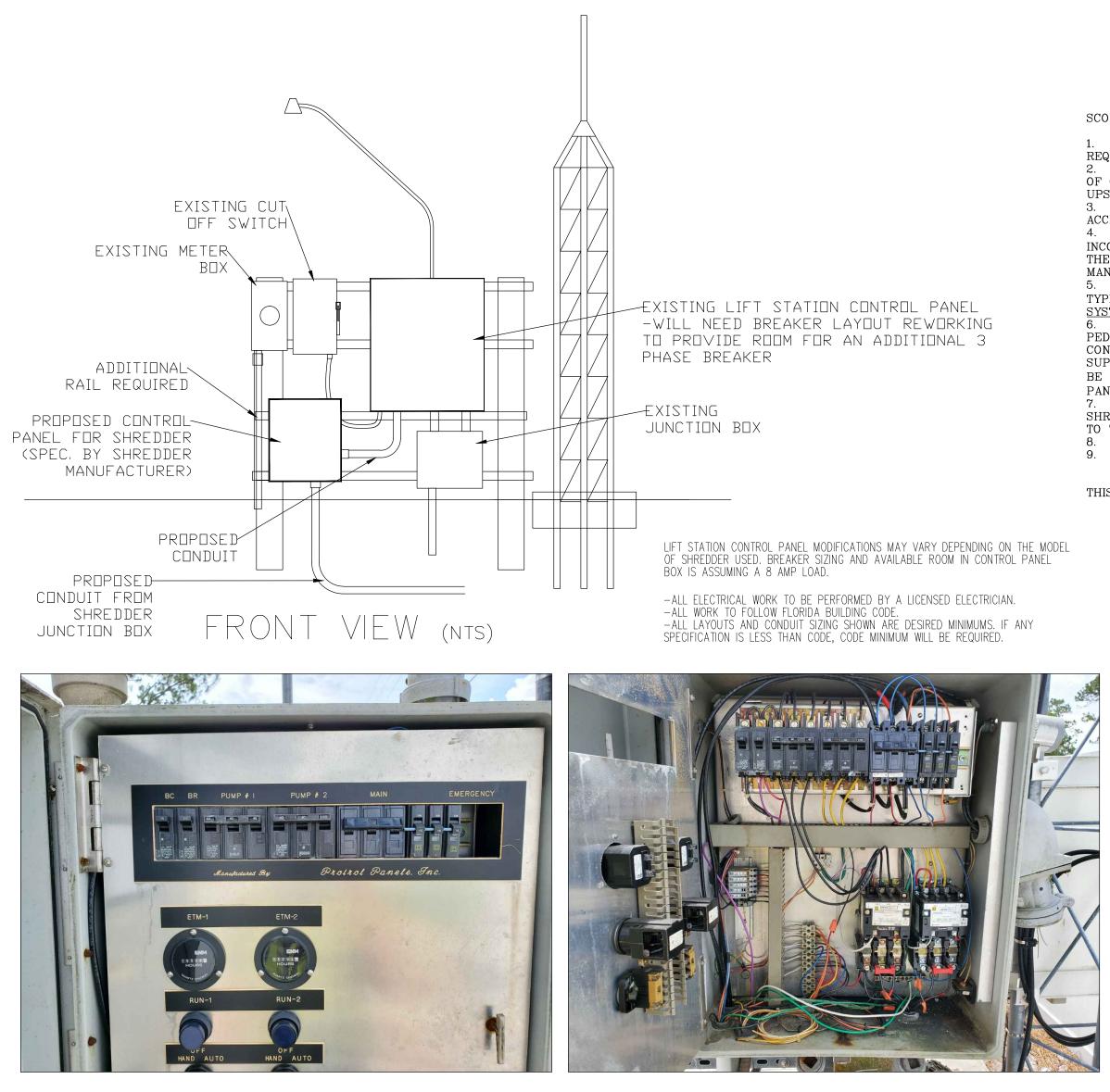
PROJECT

OWNER:

ENGINEER:



STANDAR	D NOTES	<u>ES:</u>	
PIPE SPECIFI	CATION:	TION: (provided in case damage occurs, no new pipe proposed)	
SEWER M/		8" CLASS 160 (GASKET) SDR 35 PVC 1120 160 PSI © 73'F ASTM D-3034 GREEN COLOR	
SERVICES	_	6" CLASS 160 (WHEN FEEDING 2 CONNECTIONS) SDR 35 PVC 1120 160 PSI @ 73'F	
		ASTM D-3034 4" CLASS 160 (GASKET) SDR 35 PVC 1120	
GRAVITY LINE	S	SDR 33 PVC 1120 160 PSI @ 73'F ASTM D-3034	
NOTE: EACH INSTALLATION	SUBCONTRA INSTRUCTIC		
EXISTING PA RELATED TO	EMENTS, UT CONSTRUCTI	WILL BE RESPONSIBLE FOR TAKING ALL STEPS NECESSARY INCLUDING SHORING TO INSURE THE INTEGRITY OF THE ALL UTILITIES AND STRUCTURES AND BE RESPONSIBLE FOR REPLACEMENT OR REPAIR OF ANY DAMAGE CAUSED BY OR CTION OF WATERLINE.	-
BACK FILL THE PIPE.	SHALL BE	E BEDDED IN COMPACTED CLEAN SAND WITH ALL ORGANIC MATTER AND DEBRIS REMOVED. BE OF SIMILAR MATERIAL AND PLACED BY HAND AND COMPACTED BY TAMPING TO AT LEAST 12" OVER THE TOP OF	
PIPE IS T REQUIRED.	) be instal	EAN SAND AND TO BE PLACED IN APPROXIMATE 12" LAYERS AND IS TO BE COMPACTED BY ROLLING OR TAMPING. TALLED PER MANUFACTURER SPECIFICATIONS, USING THE MANUFACTURER SPECIFIED JOINT LUBRICANTS AND CEMENTS EAS WITHIN THE DISTRICT, COUNTY AND STATE R/W ARE TO BE RESTORED AND SODDED.	IF
THE CONN SPECIFICATIO	ECTION TO NS UNDER T	The SUN IN LAKE UTILITIES SEWER COLLECTION SYSTEM WILL BE DONE TO THE SUN 'N LAKE UTILITIES A THE UTILITY DEPARTMENT SUPERVISION REQUIREMENTS. WILL BE RESPONSIBLE FOR REPAIRING ALL UTILITIES, ROADS AND STRUCTURES DAMAGED DURING THE CONSTRUCTION	
PHASE. TESTING:			гис
SUN 'N LAKE 	SENT WILL E	QUIRE THE PRESENCE OF THE ENGINEER, CONTRACTOR OR HIS DESIGNATED INSPECTOR AND A REPRESENTATIVE OF T L BE A DESIGNATED INSPECTOR FROM THE <b>SUN 'N LAKE UTI</b> LITIES. SHALL TAKE ALL PRECAUTIONS TO SECURE A WATERTIGHT SEWER LINE UNDER ALL CONDITIONS.	пс
ALL VISIB TEST SHA	.E DAMAGE _L BE PERF(	SHALL FARE ALL PRECAUTIONS TO SECORE A WATERTIGHT SEWER LINE ONDER ALL CONDITIONS. SE FLAWS SHALL BE REPAIRED OR REPLACED REGARDLESS OF THE OUT COME OF ANY TESTING PERFORMED. RFORMED PRIOR TO CONNECTION TO THE <b>SUN 'N LAKE UTI</b> LITIES SEWER COLLECTION SYSTEM. E SEWER TO BE TESTED SHALL BE FILLED WITH WATER TO AN ELEVATION OF AT LEAST 2 FEET ABOVE THE CROWN O	
THE SEWER / ——THE AMOU	NT THE UPPE	PER END OF THE REACH. ATER TO MAINTAIN THE SEWER IN A FULL CONDITION FOR 2 HOURS MINIMUM WILL BE MEASURED. BE ACCEPTED SHOULD THE QUANTITY EXCEED 50 GPD/INCH DIA./MILE.	
ALL GRAV THE CONTRA	TY MAIN LIN TOR SHALL	LINES WILL BE LAMPED AND A "FULL MOON" REQUIRED TO BE VISIBLE. ALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT TO PERFORM ALL TESTS. G SHALL BE POTABLE WATER PROVIDED BY THE CONTRACTOR FROM A SOURCE APPROVED BY THE PROJECT ENGINEEI	D
GRAVITY SE 1.00 MATERIA	WER LINES LS: PIPES	ES SPECIFICATIONS <u>PES AND FITTINGS:</u> ALL MAIN LINE PIPE, FITTINGS, AND SPECIALS SHALL BE OF ONE OF THE FOLLOWING MATERIALS:	
CONFORMING TO 18 INCHE	TO OR EXCE S; PS-46; (	<u>RIDE PIPE:</u> PLASTIC GRAVITY SEWER PIPE AND FITTINGS SHALL BE SMOOTH WALL POLYVINYLCHLORIDE (PVC) XCEEDING THE PERFORMANCE REQUIREMENTS OF ASTM DESIGNATION D3034, SDR 35; ASTM F-789 FOR SIZES 4 INCH ; OR ASTM F-679 FOR SIZES 18 INCHES TO 27 INCHES DIAMETER. FOR SIZES 21 INCHES THROUGH 48 INCHES I PROFILE WALL PVC WITH SMOOTH INTERIOR AND EXTERIOR IN ACCORDANCE WITH ASTM F-794 IS ACCEPTABLE.	IES
<u>1.02 DUCTIL</u> A) DUCT	<u>E IRON PIPE</u> LE IRON PIP		Т
WITH ASTM S B) JOINT	TANDARD AT S FOR CAST	A746-76, LATEST REVISION. AST IRON PIPE SHALL BE MECHANICAL OR PUSH-ON JOINTS CONFORMING TO ANSI STANDARD A21.11. PIPE INTERIOR NOUS SEAL COAT OVER A CEMENT MORTAR LINING CONFORMING TO ANSI STANDARD A21.4. EXTERIOR OF PIPE SHAL	
CONĆRETE, V	R PIPE MATE	ATERIALS AND MANUFACTURER INCLUDING VITRIFIED CLAY PIPE, EXTERIOR CORRUGATED, ASBESTOS CONCRETE, AND GENERALLY BE ACCEPTABLE FOR USE IN WASTEWATER COLLECTION SYSTEMS.	
<u>1.03´MANHC</u> A) DETA	<u>les, preca:</u> Ls and sho	OUND PIPE AND FITTINGS SHALL BE DUCTILE IRON. <u>CAST CONCRETE:</u> PRECAST MANHOLES SHALL MEET THE GENERAL REQUIREMENTS AS SPECIFIED HEREIN. SHOP DRAWINGS OF EACH MANHOLE, PROPOSED TO BE FURNISHED SHALL BE SUBMITTED TO AND APPROVED BY THE	
APPROVED S B) THE	HOP DRAWIN DESIGN AND	RIOR TO THE MANUFACTURE OF THE UNITS. MANHOLES WHICH ARE NOT MANUFACTURED IN COMPLIANCE WITH THE WINGS AND THESE SPECIFICATIONS MAY BE REJECTED. ND MANUFACTURE OF THE MANHOLES, AND SPECIAL PIPES CONSTRUCTION AT MANHOLES, SHALL CONFORM TO THESE	
C478–75 AN	DITION TO T D THE FOLL(	D THE GENERAL REQUIREMENTS, PRECAST MANHOLES SHALL CONFORM TO THE REQUIREMENTS OF ASTM DESIGNATION DELOWING MODIFICATIONS THERETO:	
2) CE CONSTRUCTIO	MENT TO BE N;	M SHELL THICKNESS SHALL BE 6 INCHES; BE USED IN PRECAST MANHOLES SHALL BE TYPE II, 4000 PSI ACID RESISTANT CEMENT USED FOR SANITARY	
NEOPREŃE G	ASKET JOINT	DSE POSITIONS IN THE COMPLETE CONSTRUCTION ARE BELOW THE WATER TABLE SHALL BE COMPRESSION TYPE, INT OF A DESIGN APPROVED BY THE ENGINEER; LES THROUGH THE STRUCTURES ARE PERMITTED, HOWEVER, ALL HOLES SHALL BE COMPLETELY SEALED WITH HYDRAUL	LIC
5) TH MONOLITHICA	LY WITH TH	OF THE STRUCTURE SHALL INCLUDE A PRECAST BASE OF NOT LESS THAN 8 INCHES IN THICKNESS, AND POURED THE BOTTOM SECTION OF THE MANHOLE WALLS; USED FOR SEALING AROUND THE PIPE OPENINGS SHALL BE OF TYPE ACCEPTABLE TO THE PROJECT ENGINEER	
DESIGNÉD FC 7) Pf	R USE IN WA ECAST MANI	WATER; ALL OPENINGS AND JOINTS SHALL BE SEALED WATERTIGHT; ANHOLE TOPS, IF USED, SHALL TERMINATE AT SUCH ELEVATIONS AS WILL PERMIT LAYING UP TO A MINIMUM OF 12 K UNDER THE MANHOLE FRAME TO MAKE ALLOWANCE FOR FUTURE ST GRADE ADJUSTMENT;	
CASTING YAF 9) ST	D; THE MAN AINLESS STE	IECTIONS, WHERE REQUIRED ON PRECAST MANHOLES, SHALL BE MANUFACTURED WITH THE MANHOLE ELEMENTS AT TH IANUFACTURER SHALL SUBMIT FOR APPROVAL THE METHOD OF DROP MANHOLE CONSTRUCTION; AND STEEL INFLOW COVERS TO BE PROVIDED FOR ALL MANHOLES.	łΕ
48–74, CLAS IN POSITIONS	S 30. CAS WHICH WOU	NG: CASTING FOR MANHOLE FRAMES, COVERS, STEPS, AND OTHER ITEMS SHALL CONFORM TO ANSI DESIGNATION A ASTINGS SHALL BE TRUE TO PATTERN IN FORM AND DIMENSIONS AND FREE OF POURING FAULTS AND OTHER DEFECT YOULD IMPAIR THEIR STRENGTH OR OTHERWISE MAKE THEM UNFIT FOR THE SERVICE INTENDED. THE SEATING SURFAC	CES
SHALL BE PF THE DRAWING	OVIDED, BU <sup>-</sup> S. THE WO	) COVERS SHALL BE MACHINED TO FIT TRUE. NO PLUGGING OR FILLING WILL BE ALLOWED. LIFTING OR "PICK" HOLES BUT SHALL NOT PENETRATE THE COVER. CASTING PATTERNS SHALL CONFORM TO THOSE SHOWN OR INDICATED ON WORDS SANITARY SEWER, CONFINED SPACE, SUN 'N LAKE AND YEAR SHALL BE CAST IN ALL MANHOLE COVERS. ALL SECONDES SHALL BE TRACEDED FOR MUNICIPAL OF CONTRACT, SHALL BE CAST IN ALL MANHOLE COVERS. ALL	S L
E) CEMENT M Which Hydr	ORTAR: CE TED LIME M	) COVERS SHALL BE TRAFFIC BEARING. MANHOLE CASTINGS SHALL BE OF U.S. MANUFACTURE. CEMENT MORTAR FOR MANHOLE CONSTRUCTION SHALL BE 1 PART CEMENT AND 3 PARTS CLEAN SHARP SAND TO MAY BE ADDED IN THE AMOUNT NOT TO EXCEED 10% OF THE AMOUNT OF CEMENT BY VOLUME. IT SHALL BE MIXEI D TO PROPER CONSISTENCY FOR USE. NO MORTARS THAT HAVE STOOD FOR MORE THAN 1 HOUR SHALL BE USED.	D
2.00 CONST 2.01 EXCAV	RUCTION: <u>ATING THE T</u>		
TRENCH, REC TRAFFIC HAZ B) THE TI	UCE OR ELIN Ards. Rench width	ELIMINATE PUMPING OR SHEETING, REDUCE CAVING CAUSED BY GROUND WATER, REDUCE POTENTIAL WORKMEN AND DTH AT THE GROUND SURFACE MAY VARY WITH AND DEPEND UPON THE DEPTH, TYPE OF SOILS AND POSITION OF	
DIAMETER OF THE PIPE DIA	THE PIPE METER PLUS	. THE MINIMUM CLEAR WIDTH OF THE TRENCH IN THE PIPE ZONE SHOULD BE ONE FOOT GREATER THAT THE OUTSID E. THE MAXIMUM CLEAR WIDTH OF THE TRENCH AT THE TOP OF THE PIPE SHOULD NOT EXCEED A WIDTH EQUAL TO LUS TWO FEET. IF THE ABOVE DEFINED TRENCH WIDTHS MUST BE EXCEEDED OR IF THE PIPE IS INSTALLED IN A BUILD FOR FUNDER OF THE ABOVE DEFINED TRENCH WIDTHS MUST BE EXCEEDED OR IF THE PIPE IS INSTALLED IN A	
PIPE OR TO C) MINIMU	THE TRENCH M COVER FO	ENT, PIPE EMBEDMENT SHOULD BE COMPACTED TO A POINT OF AT LEAST 2.5 PIPE DIAMETERS ON BOTH SIDES OF TI ICH WALLS, WHICHEVER IS LESS. FOR THE TOP OF THE PIPE IS 36 INCHES BELOW THE FINISHED GRADE. )TTOM SHOULD BE SMOOTH AND FREE FROM LARGE STONES. ROCKS OR LARGE DIRT CLODS. EXCAVATION OF BELLS	
SHOÚLD BE I EXCAVATOR	ROVIDED SC	SO THAT THE PIPE IS UNIFORMLY SUPPORTED ALONG ITS LENGTH. USUALLY, LOOSE MATERIAL LEFT BY THE RENCH BOTTOM WILL BE ADEQUATE FOR BEDDING THE PIPE BARREL AND PROVIDING FULL SUPPORT. WHEN ROCK OR NG MATERIAL IS ENCOUNTERED, EXCAVATION SHALL BE EXTENDED TO 6 INCHES BELOW THE OUTSIDE BOTTOM OF THE	-
PIPE AND A F) LATER	BEDDING CU LS SHOULD	CUSHION OF SAND OR OTHER SELECTED BACKFILL USED AS THE PIPE BED. LD BE A MINIMUM OF 30"-36" BELOW FINISH GRADE. FOUR INCH (4") SINGLE, SIX INCH (6") DOUBLE FOR XIAL APPLICATIONS. FOUR INCH (4") CLEAN OUT TO GRADE AT PROPERTY LINE.	
<u>2.02 PIPE F</u> A) THE SHALL BE KE	<u>andling</u> Nterior of PT Clean D	OF ALL PIPE SHALL BE THOROUGHLY CLEANED OF ALL FOREIGN MATERIAL BEFORE BEING LOWERED IN THE TRENCH A N DURING THE LAYING OPERATIONS BY MEANS OF PLUG OR OTHER APPROVED METHODS.	
SHALL BE CL LIGHTLY WITH	EANED OF A A LUBRICAI	HALL PROCEED UP GRADE WITH SPIGOT ENDS POINTING IN THE DIRECTION OF FLOW. BEFORE PIPE IS JOINED, GASKE F ALL DIRT AND STONES AND OTHER FOREIGN MATERIAL. THE SPIGOT ENDS OF THE PIPE SHALL BE LUBRICATED CAN'T SPECIFIED BY THE PIPE MANUFACTURER AND APPROVED BY THE PROJECT ENGINEER. SUFFICIENT PRESSURE	TS
TRUE TO THE C) UNDE	LINES AND R NO CIRCUI	THE PIPE SO AS TO PROPERLY SEAT THE SOCKET IN THE BELL OF THE PIPE. ALL PIPE SHALL BE LAID STRAIGHT, ND GRADES SHOWN ON THE PLANS, IN EACH MANHOLE SECTION. CUMSTANCES SHALL PIPE BE LAID IN WATER, AND NO PIPE SHALL BE LAID WHEN TRENCH CONDITIONS OR THE ILE FOR SUCH WORK, EXCEPT BY PERMISSION OF THE PROJECT ENGINEER. AT ALL TIMES WHEN WORK IS NOT IN	
PROGRESS, T OR OTHER S	HE EXPOSED JBSTANCES	ILE FOR SUCH WORR, EACEPT BY PERMISSION OF THE PROJECT ENGINEER. AT ALL TIMES WHEN WORK IS NOT IN SED ENDS OF ALL PIPES SHALL BE FULLY PROTECTED BY A BOARD OR OTHER APPROVED STOPPER TO PREVENT EAR SFROM ENTERING THE PIPE. CH IS DISTURBED OR FOUND TO BE DEFECTIVE AFTER LAYING SHALL BE TAKEN UP AND RELAID OR REPLACED.	:TH
E) ÍRANSPO DAMAGED.	RTATION: (	CARE SHALL BE TAKEN DURING TRANSPORTATION OF THE PIPE THAT IT IS NOT CUT, KINKED OR OTHERWISE LENGTHS: ROPES, FABRIC, OR RUBBER PROTECTED SLINGS AND STRAPS SHALL BE USED WHEN HANDLING PIPES.	
G) STOR	AGE:	L BE STORED ON LEVEL GROUND, PREFERABLY TURF OR SAND, FREE OF SHARP OBJECTS WHICH COULD DAMAGE THE	-
THE BOÍTOM 3) Wi	LAYERS OF IEN NECESS	)F THE POLYVINYLCHLORIDE PIPE SHALL BE LIMITED TO A HEIGHT THAT WILL NOT CAUSE EXCESSIVE DEFORMATION OF OF PIPES UNDER THE ANTICIPATED TEMPERATURES AND CONDITION. 'SSARY, DUE TO GROUND CONDITIONS, THE PIPE SHALL BE STORED ON WOODEN SLEEPERS, SPACED SUITABLY AND OF	
4) TH SHARP AND	E HANDLING CUTTING OB	TO ALLOW DEFORMATION OF PIPE AT THE POINT OF CONTACT WITH THE SLEEPER OR BETWEEN SUPPORTS. ING OF THE JOINTED PIPE LINE SHALL BE IN SUCH A MANNER THAT THE PIPE IS NOT DAMAGED BY DRAGGING IT OVE OBJECTS. SECTIONS OF THE PIPES WITH DEEP CUTS AND GOUGES SHALL BE REMOVED.	ER
6) P( MANNER THA	LYVINYLCHL T NO SUBSE	L BE EXERCISED WHEN LOWERING PIPE INTO THE TRENCH TO PREVENT DAMAGE TO OR TWISTING OF THE PIPE. HLORIDE PIPE CONNECTED TO HEAVY FITTINGS, MANHOLES, AND RIGID STRUCTURES SHALL BE SUPPORTED IN SUCH A SSEQUENT RELATIVE MOVEMENT BETWEEN THE PIPE AND THE JOINT WITH THE RIGID STRUCTURES IS POSSIBLE.	ł
MORÍAR CON	ETE INVERTS STRUCTION,	∑ RTS: ALL MANHOLE INTERIOR BOTTOMS SHALL BE SHAPED WITH TRUE INVERTS. INVERTS SHALL BE OF CONCRETE N, AS SPECIFIED HEREIN. EMS OF CONSTRUCTION, SUCH AS CLEANOUTS, TERMINAL LAMPHOLES, SPECIAL MANHOLES, AND OTHER ITEMS	
NECÉSSARY I CONSTRUCTE	OR THE COI	COMPLETE INSTALLATION OF THE SYSTEM SHALL CONFORM TO SPECIFIC DETAILS ON THE DRAWINGS AND SHALL BE ST-CLASS MATERIALS CONFORMING TO THE APPLICABLE PORTIONS OF THE SPECIFICATIONS. TO EXISTING MANHOLES AND PIPE STUBS SHALL BE MADE WITHOUT PERMANENT DAMAGE TO THE EXISTING STRUCTUR	۶F
THE ÍNVERT OPENING IN	CHANNELS S THE EXISTING	S SHALL BE RESHAPED OR REMOVED, IF NECESSARY, AND RECONSTRUCTED TO PROVIDE FOR SMOOTH FLOW. PIPE ING MANHOLE WALLS SHALL BE MADE WATERTIGHT WITH AN APPROVED GROUT. NG/INSPECTIONS:	L.
<u>3.01</u> IT IS I RIGIDLY TO T AND ATTENTI	IPERATIVE T HE SPECIFIC ON MUST BE	E THAT ALL SEWERS AND APPURTENANCES BE BUILT PRACTICALLY WATERTIGHT AND THAT THE CONTRACTOR ADHERE FICATIONS FOR MATERIALS AND WORKMANSHIP. SEWAGE MAY NEED TO BE PUMPED FOR DISPOSAL AND SPECIAL CAF BE PAID TO SECURING WATERTIGHT CONSTRUCTION. UPON COMPLETION, THE SEWER, OR SECTION THEREOF, WILL BE	RE
<u>3.02</u> ON CC OR SECTION	MPLETION OF OF SEWER IS	AND IF LEAKAGE IS ABOVE THE ALLOWABLE LIMITS SPECIFIED, THE SEWER WILL BE REJECTED. OF EACH BLOCK OR SECTION OF SEWER, OR SUCH OTHER TIMES AS THE PROJECT ENGINEER MAY DIRECT, THE BLOC R IS TO BE CLEANED, TESTED, AND INSPECTED. EACH SECTION OF THE SEWER IS TO SHOW, EXAMINATION FROM EITH	CK IER
<u>3.03</u> EACH NEATLY AND <u>3.04</u> ALL RE	MANHOLE, O SUBSTANTIA PAIRS SHOWI	OF LIGHT BETWEEN MANHOLES. , OR OTHER APPURTENANCES TO THE SYSTEM ALSO SHALL BE OF THE SPECIFIED SIZE AND FORM, BE WATERTIGHT, ITIALLY CONSTRUCTED, WITH THE TOP SET PERMANENTLY TO EXACT POSITION AND GRADE. OWN NECESSARY BY THE INSPECTION ARE TO BE MADE; BROKEN OR CRACKED PIPE REPLACED, ALL DEPOSITS REMOV	√ED
AND THE SE <u>3.05</u> ALL WA A) THE	VER LEFT TR STEWATER C ALLOWABLE I	TRUE TO LINE AND GRADE, ENTIRELY CLEAN AND READY TO USE. R COLLECTION SYSTEMS SHALL BE TESTED BY INFILTRATION/EXFILTRATION AS DESCRIBED BELOW: .E LIMITS OF INFILTRATION, EXFILTRATION, OR LEAKAGE FOR THE ENTIRE SYSTEM OR ANY PORTION THEREOF, INCLUDIN	
HOUŚE SERV THROUGHOUT GALLONS PEI	CE LINES, SI THE SYSTEI MANHOLE	, SHALL NOT EXCEED A RATE OF 0.1 GALLONS PER FOOT OF PIPE PER 24 HOURS FOR ALL SIZES OF PIPE TEM. THE ALLOWABLE LIMITS OF INFILTRATION OR EXFILTRATION OF MANHOLES SHALL NOT EXCEED A RATE OF 2 .E PER 24 HOURS.	
B) INFIL SEWER FOR LOCALIZE TH	RATION, IF LL SIZES AI POSITION (	IF TAKEN BETWEEN ANY TWO ADJACENT MANHOLES, SHALL NOT EXCEED 0.1 GALLON PER 24 HOURS PER FOOT OF AND ALL LOCATIONS. THIS TESTING OF LINES BETWEEN ADJACENT MANHOLES WILL NOT BE REQUIRED EXCEPT TO N OF A LEAK IN A PORTION OF THE SYSTEM THAT EXCEEDS THE ALLOWABLE LEAKAGE LIMIT OR AS DIRECTED BY TH	ŧΕ
PRIOR TO TE	PART OR AL STING FOR II	ALL OF THE SYSTEM MAY BE TESTED FOR INFILTRATION OR EXFILTRATION, AS DIRECTED BY THE PROJECT ENGINEER. R INFILTRATION, THE SYSTEM SHALL BE PUMPED OUT SO THAT NORMAL INFILTRATION OR EXFILTRATION SHALL BE	
D) THE WILL PROVIDE	XFILTRATION : A MINIMU	ING INTO OR OUT OF CALIBRATED DRUMS, OR BY OTHER APPROVED METHODS. 10N TEST WILL BE CONDUCTED BY FILLING THE PORTION OF THE SYSTEM BEING TESTED WITH WATER TO A LEVEL WHI 1MUM HEAD ON A SERVICE LATERAL CONNECTED TO THE TEST PORTION OF 2 FEET; OR IN THE EVENT THERE ARE NO THE TEST PORTION. A MINIMUM DIFFERENCE IN ELEVATION BETWEEN THE CROWN OF THE HIGHEST PORTION OF THE	
SEWER AND E) TESTS SEWER, OR A	THE TEST WA SHALL BE S OTHERWIS	WATER LEVEL OF 5 FEET. 3E CONDUCTED ON PORTIONS OF THE SYSTEM NOT EXCEEDING 3 MANHOLE RUNS OR MORE THAN 1000 FEET OF MAIN WISE DIRECTED BY THE PROJECT ENGINEER. TESTS SHALL BE RUN CONTINUOUSLY FOR 3 HOURS. WHERE INFILTRATI	ION
OR EXFILTRA SHALL BE LC REMOVED AN	ION EXCEED CATED AND ) RECONSTR	EEDS THE ALLOWABLE LIMITS ALSO SPECIFIED HEREIN, THE DEFECTIVE PIPE, JOINTS, OR OTHER FAULTY CONSTRUCTION ND REPAIRED. IF THE DEFECTIVE PORTIONS CANNOT BE LOCATED, AS MUCH OF THE WORK AS IS NECESSARY WILL B STRUCTED IN ORDER TO CONFORM TO THE SPECIFIED ALLOWABLE LIMITS. TESTING SHALL BE PERFORMED AS THE JOE	N BE
PROGRESSES F) THE (	AND SHALL	ALL BE STARTED AFTER NO MORE THAN 2000 FEET OF PIPE IS LAID. OR SHALL PROVIDE ALL LABOR, EQUIPMENT AND MATERIALS, AND CONDUCT ALL TESTING REQUIRED, UNDER THE OJECT ENGINEER.	



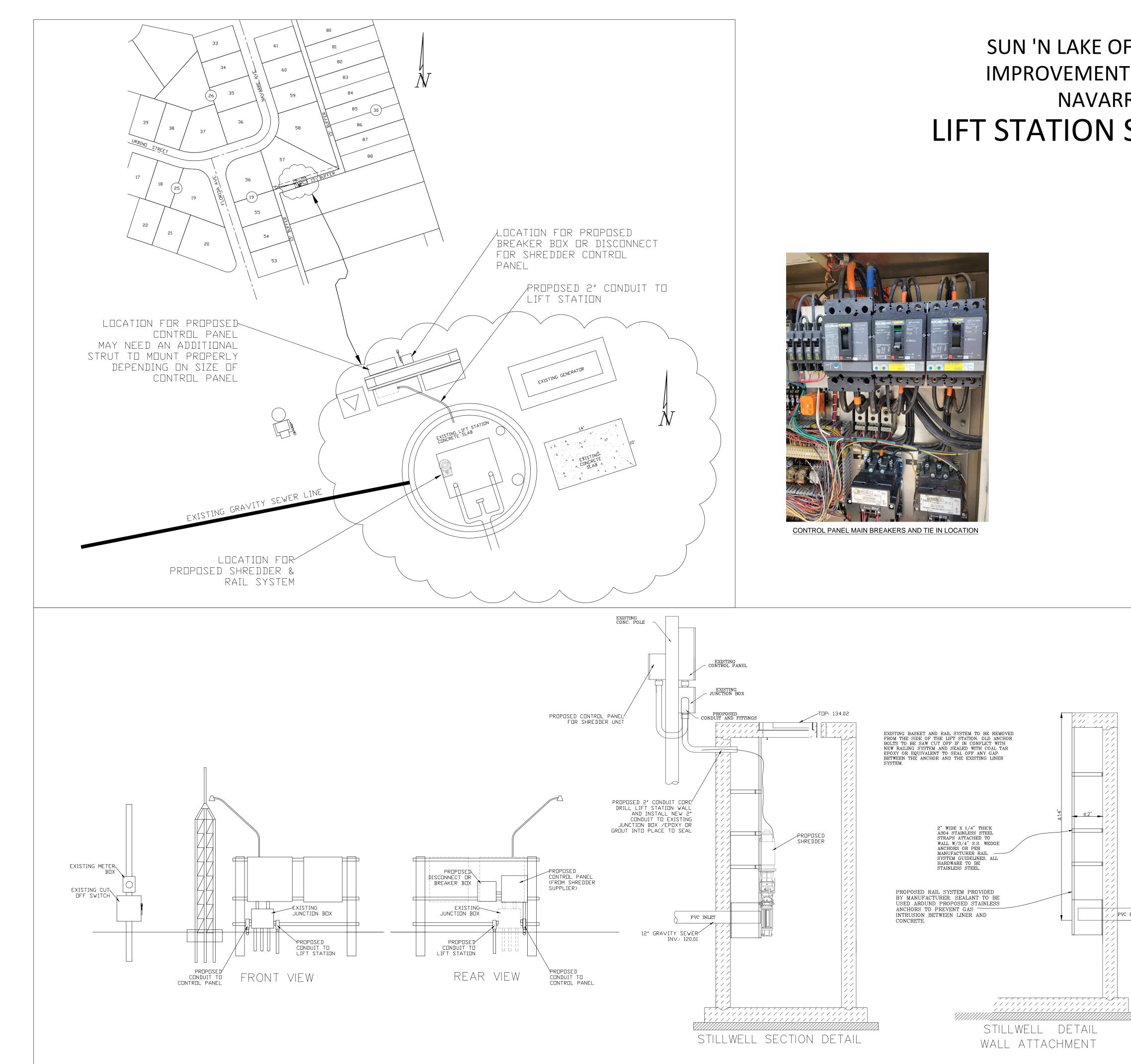
## EXISTING CONTROL PANEL

SCOPE OF WORK 1. INSTALL NEW DOG-HOUSE MANHOLE UPSTREAM FROM EXISTING LIFT STATION. DEWATERING WILL BE REQUIRED FOR THE EXCAVATION OF THE MANHOLE LOCATION. 2. THE EXISTING GRAVITY SYSTEM IS ACTIVE AND SHOULD REMAIN IN OPERATION DURING THE ENTIRETY OF CONSTRUCTION. BYPASS PUMPING MAY BE REQUIRED IF CONSTRUCTION TIME EXCEEDS VOLUME IN THE UPSTREAM MANHOLE. 3. THE PROPOSED MANHOLE SHALL HAVE A LIFT STATION STYLE HATCH TOP IN ORDER TO BE ABLE TO ACCESS THE PROPOSED SHREDDER UNIT. 4. THE BOTTOM OF THE PROPOSED MANHOLE SHALL HAVE A CAST IN PLACE CHANNEL THAT INCORPORATES THE FLOW BEING DIRECTED INTO THE PROPOSED SHREDDER UNIT. THE BASE/MOUNT FOR THE SHREDDER UNIT SHALL BE BOLTED OR FASTENED WITHIN THE PROPOSED CHANNEL FOLLOWING MANUFACTURER GUIDELINES. 5. THE NEW MANHOLE SHALL BE LINED EITHER WITH A CAST IN HDPE LINER OR A CALCIUM ALUMINATE TYPE LINER (SEWPERCOAT OR EQUIVALENT). EPOXY OR POLYUREA OR ANY FLEXIBLE SPRAY ON LINER SYSTEM WILL NOT BE ALLOWED. THIS MANHOLE WILL BE EXPOSED TO WATER TABLE PRESSURES. 6. A CONDUIT SHALL BE PROVIDED TO RUN THE POWER OUT OF THE MANHOLE TO THE PROPOSED PEDESTAL MOUNT JUNCTION BOX JUST OUTSIDE OF THE MANHOLE. THIS JUNCTION BOX SHALL BE CONNECTED VIA CONDUIT TO THE CONTROL BOX FOR THE SHREDDER UNIT. THE CONTROL BOX SHALL BE SUPPLIED BY THE SHREDDER MANUFACTURER AND INCLUDED AS PART OF THE CONTRACTORS BID. IT CAN BE UP TO THE CONTRACTOR'S ELECTRICIAN TO DETERMINE THE BEST PLACEMENT FOR THE CONTROL PANEL/BOX. IDEALLY IT WILL BE ADJACENT TO THE EXISTING LIFT STATION CONTROLS. 7. THE EXISTING CONTROL PANEL WILL NEED TO BE MODIFIED TO FIT AN ADDITIONAL BREAKER FOR THE SHREDDER CONTROL PANEL. THE NEW CONTROL PANEL WILL THEN NEED TO BE CONNECTED VIA CONDUIT TO THE EXISTING CONTROL PANEL.

8. THE CONTRACTOR SHALL SUPPLY ALL LABOR AND MATERIALS FOR A COMPLETE TURN-KEY PRODUCT. 9. ALL APPLICABLE TESTING AND STARTUP SHOULD BE INCLUDED WITH THE CONTRACTORS PROPOSAL.

THIS WORK REQUIRES A LICENSED UNDERGROUND CONTRACTOR AND A LICENSED ELECTRICIAN.





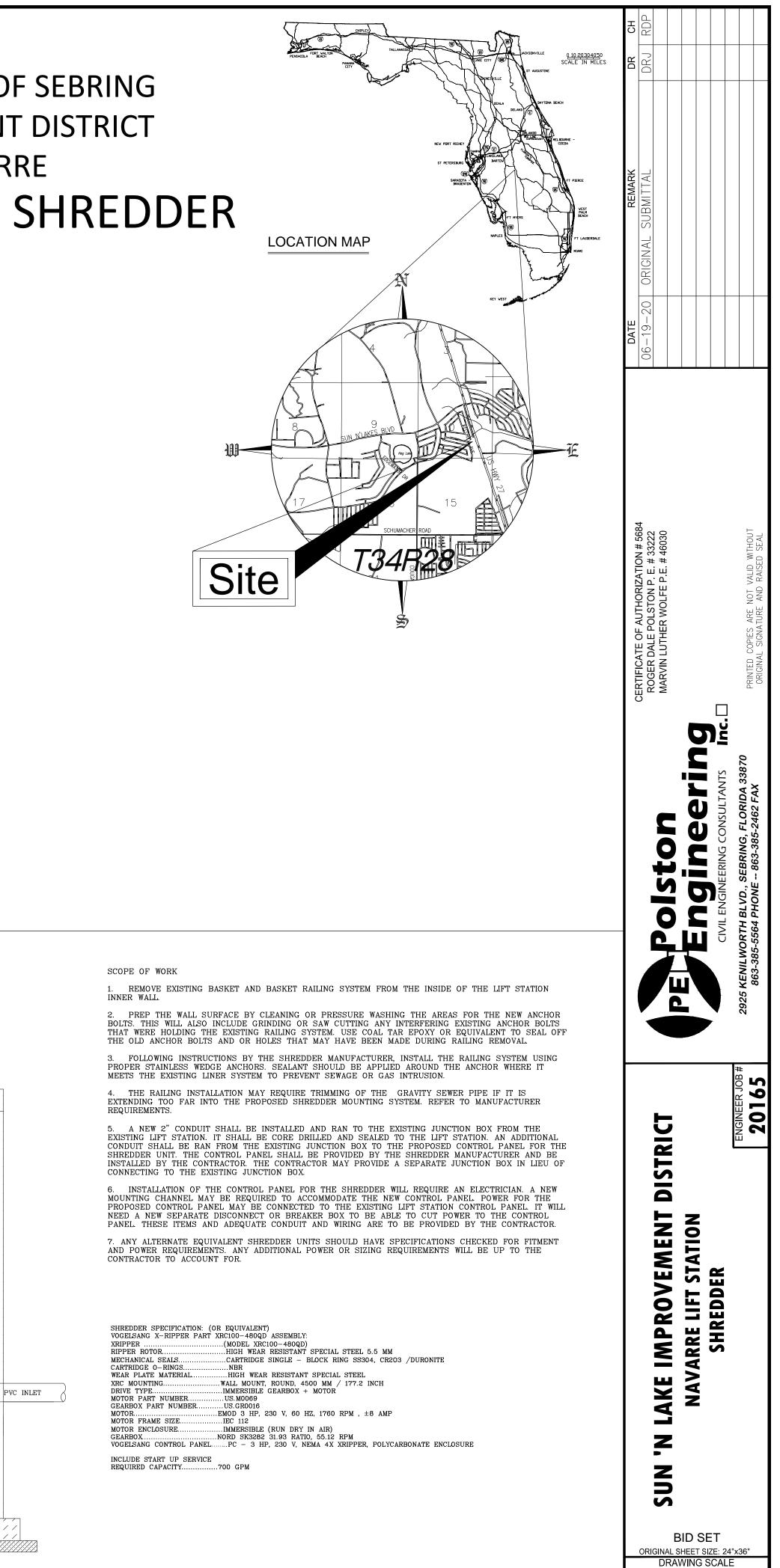
## SUN 'N LAKE OF SEBRING **IMPROVEMENT DISTRICT** NAVARRE LIFT STATION SHREDDER

WALL ATTACHMENT

111.111

11.1111

 $\pm 2' \rightarrow /$ 



SECTIONS NOT TO SCALE

N.T.S.

SHEET 3 OF 3