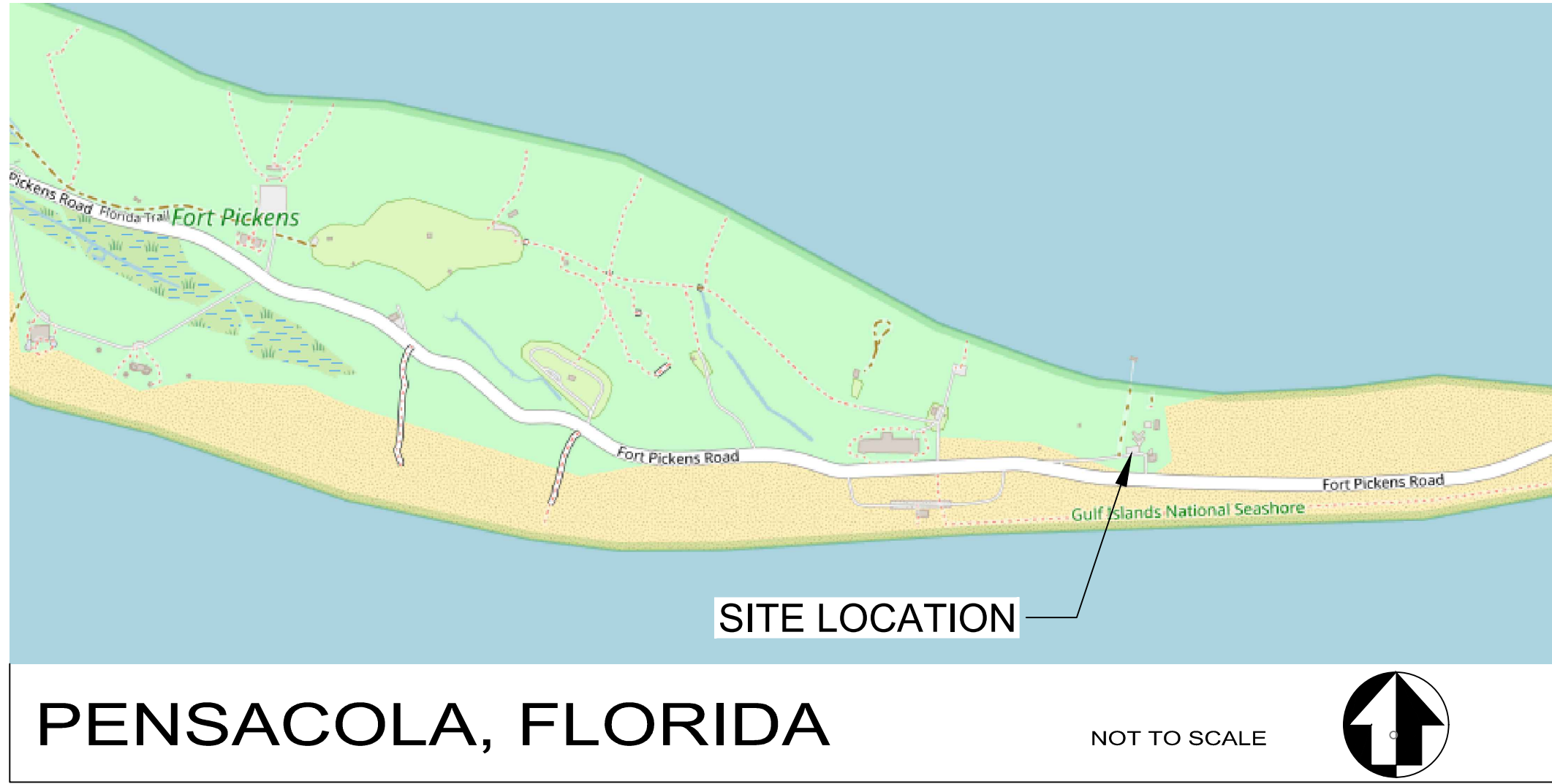
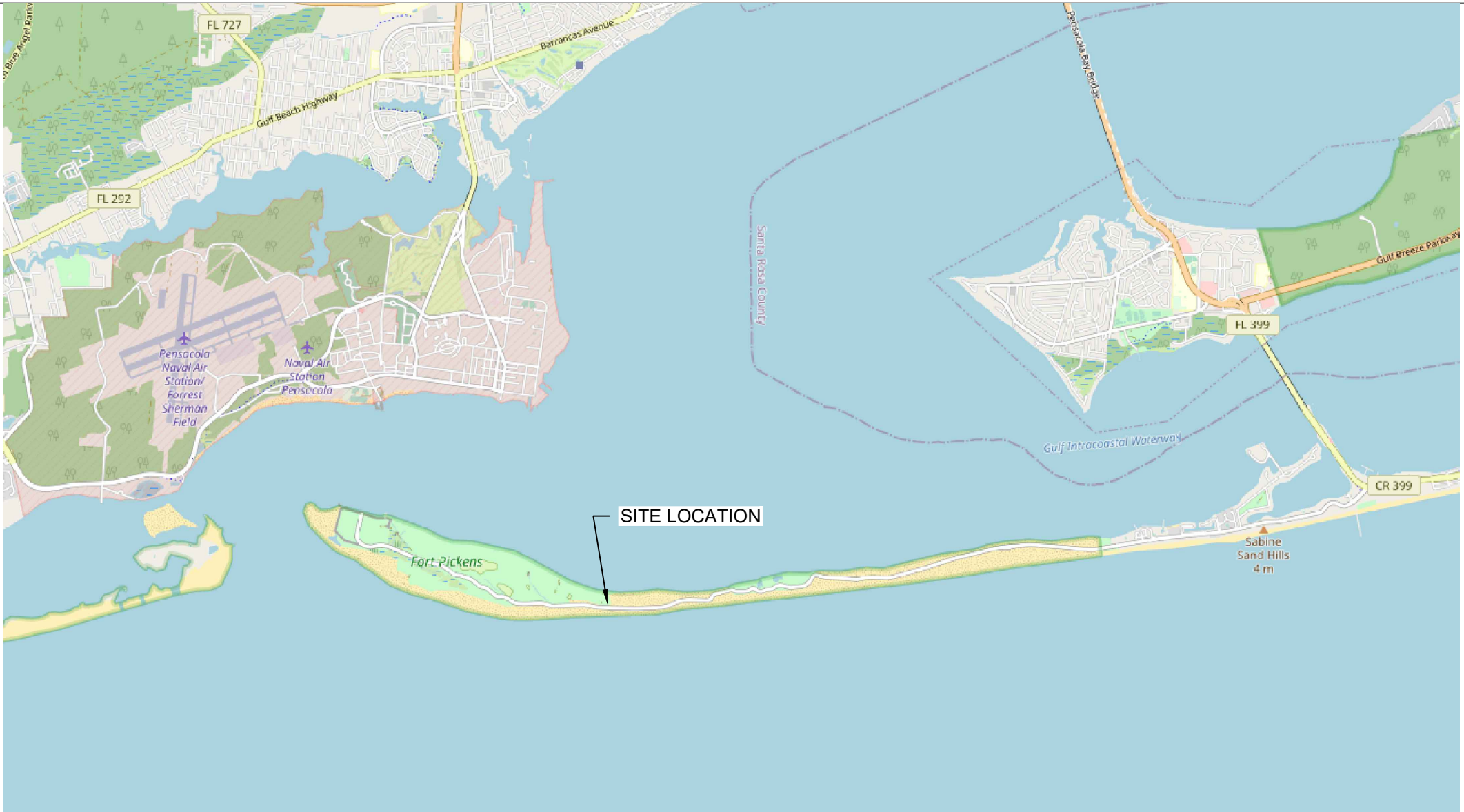


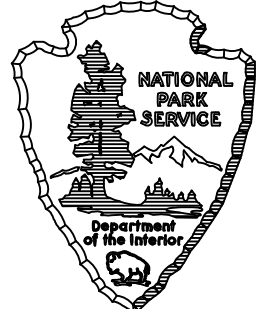


GULF ISLAND NATIONAL SEASHORE



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3	C2	SITE ACCESS PLAN
4	C3	DEMOLITION PLAN
5	C4	SITE PLAN
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ABBREVIATIONS:

A	
A/E	ARCHITECT/ENGINEER
ABV	ABOVE
ADJ	ADJUSTABLE
ADMIN	ADMINISTRATION
AFF	ABOVE FINISH FLOOR
ALT	ALTERNATE
ALUM	ALUMINUM
ANOD	ANODIZED
ARCH	ARCHITECT (URAL)
AUTO	AUTOMATIC
AVG	AVERAGE
&	AND
@	AT

B	
BLDG	BUILDING
BD	BOARD
B.O.	BOTTOM OFF

C	
CAB	CABINET
CJ	CONTROL JOINT
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTER
CO	CONTRACTING OFFICER
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS(ATION)
COR	CONTRACTING OFFICER REPRESENTATIVE

D	
DBL	DOUBLE
DEPT	DEPARTMENT
DIA	DIAMETER
DIFF	DIFFUSER
DIM	DIMENSION
DIV	DIVISION
DN	DOWN
DSC	DENVER SERVICE CENTER
DTL	DETAIL
DWG	DRAWING

E	
EA	EACH
ELEC	ELECTRICAL
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
ELEV	ELEVATION
ENTR	ENTRANCE
EQ	EQUAL
EQUIP	EQUIPMENT
EXIST	EXISTING
EXP JT	EXPANSION JOINT
EXPS	EXPOSE(D)
EXT	EXTERIOR

F	
FAB	FABRICATION
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FFE	FINISHED FLOOR ELEVATION
FFL	FINISHED FLOOR LINE
FIN	FINISH
FLR	FLOOR(ING)
FRP	FIBER REINFORCED PANEL
FRT	FIRE RETARDANT TREATED
FT	FOOT/FEET
FURN	FURNITURE

G	
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GEN	GENERAL
GL	GLASS
GPM	GALLONS PER MINUTE

H	
H	HIGH
HC	HANDICAP
HDWR	HARDWARE
HM	HOLLOW METAL
HP	HORSE POWER
HT	HEIGHT
HVAC	HEATING, VENTILATION AND AIR CONDITIONING

I	
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR

J	
JAN	JANITOR
JT	JOINT

L	
LAV	LAVATORY
L	LONG
LVT	LUXURY VINYL TILE

M	
MAT'L	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MISC	MISCELLANEOUS
MIN	MINIMUM
MO	MASONRY OPENING
MOD	MODIFICATION
MTD	MOUNTED
MTL	METAL

N	
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NPS	NATIONAL PARK SERVICE
NTS	NOT TO SCALE

O	
OC	ON CENTER
OPNG	OPENING(S)
OPP	OPPOSITE
OVHD	OVERHEAD

P	
PL	PLATE
PLBG	PLUMBING
PLYWD	PLYWOOD
PMIS	PROJECT MANAGEMENT INFORMATION SYSTEM
PMIS NO	PROJECT PMIS NUMBER
PNL	PANEL
PREFAB	PREFABRICATED
PREFIN	PREFINISHED
PT	PRESSURE TREATED

Q	
QTY	QUANTITY

R	
R, RAD	RADIUS
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REINF	REINFORCE (D) (ING)
REQD	REQUIRED
REV	REVISION
RM	ROOM
RO	ROUGH OPENING
RTU	ROOF TOP UNIT

S	
SIM	SIMILAR
SPEC	SPECIFICATION
SPK	SPEAKER
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STRUCT	STRUCTURAL
STL	STEEL
STO	STORAGE
SUSP	SUSPENDED

T	
TBD	TO BE DETERMINED
TEL	TELEPHONE
TEMP	TEMPERED
THK	THICK
TLT	TOILET
T.O.	TOP OF
T & G	TONGUE AND GROOVE
TYP	TYPICAL
TV	TELEVISION

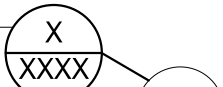
U	
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE

V	
VAR	VARIES
VERT	VERTICAL
VIF	VERIFY IN FIELD


W	
W/	WITH
W	WIDTH
WC	WATER CLOSET
WD	WOOD
W/O	WITHOUT
WTRPRF	WATERPROOFING

LEGENDS AND SYMBOLS:

DETAIL

DETAIL NUMBER	
SHEET NO. (WHERE SHOWN)	

TITLES

DRAWING NUMBER	
SHEET NO. (WHERE SHOWN)	

KEYNOTE



MATCH LINE MARK



CENTER LINE



GENERAL NOTES:

1. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SUPERVISION AND COORDINATION OF ALL CONSTRUCTION PROCEDURES.

2. THESE PLANS SHOULD BE STUDIED AND USED IN THEIR ENTIRETY AS INFORMATION VITAL TO EACH STAGE OF CONSTRUCTION.

3. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE APPLICABLE CODES AND ORDINANCES IN EFFECT AT THE TIME OF PERMIT. IN THE EVENT OF A CONFLICT, THE MORE STRINGENT REQUIREMENT SHALL GOVERN AND BE MET.

4. ALL DIMENSIONS SHALL BE VERIFIED BY THE CONTRACTOR AND THE CONTRACTING OFFICER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

5. COORDINATE LOCATIONS AND/OR ELEVATIONS OF DRAINS, SLABS, GROUND, ELECTRICAL PANELS, CONTROLS, ALARMS, ETC. WITH MECHANICAL AND ELECTRICAL CONTRACTORS AND ARCHITECTURAL DRAWINGS.

6. WHERE A DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL APPLY TO ALL LIKE OR SIMILAR CONDITIONS, EVEN THOUGH NOT SPECIFICALLY MARKED ON THE DRAWINGS.

7. THE GENERAL CONTRACTOR SHALL ENSURE THAT CONSTRUCTION ENVIRONMENT IS MAINTAINED IN SUCH A WAY TO INHIBIT EROSION AND SEDIMENT CONTROL.

8. THE GENERAL CONTRACTOR SHALL REMOVE PROMPTLY AND LEGALLY ALL ACCUMULATED DEBRIS, PROTECT ALL EXPOSED PORTIONS OF WORK FROM ELEMENTS, AVOID OVER- LOADING STRUCTURE, AND SECURELY STORE ALL ITEMS TO BE USED FOR CONSTRUCTION.

9. THE GENERAL CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATION.

10. THE GENERAL CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONARY MEASURES TO PROTECT THE PUBLIC AND ADJACENT PROPERTIES FROM DAMAGE THROUGHOUT CONSTRUCTION.

11. ANY EXISTING UTILITIES TO BE ABANDONED SHALL BE PROPERLY DISCONNECTED, PLUGGED OR CAPPED, AS REQUIRED BY CODE OR SOUND CONSTRUCTION PRACTICE.

12. NO CHANGES, MODIFICATIONS OR DEVIATIONS SHALL BE MADE FROM THE DRAWINGS OR SPECIFICATIONS WITHOUT FIRST SECURING WRITTEN PERMISSION FROM THE CONTRACTING OFFICER.

13. WHERE LACK OF INFORMATION, OR ANY DISCREPANCY SHOULD APPEAR IN THE DRAWINGS OR SPECIFICATIONS, REQUEST WRITTEN INTERPRETATION FROM THE CONTRACTING OFFICER BEFORE PROCEEDING WITH THAT PORTION OF THE WORK.
14. WHEN A SYSTEM OR ASSEMBLY IS SPECIFIED, ALL NECESSARY PARTS AND MATERIALS REQUIRED FOR A COMPLETE INSTALLATION/SYSTEM SHALL BE INSTALLED ACCORDING TO THE MANUFACTURERS INSTRUCTIONS.

15. COORDINATE WITH ALL TRADES THE LOCATIONS OF SLEEVES OR OTHER PRESET ACCESSORIES INVOLVING OTHER TRADES.

16. THE GENERAL CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR THE COMPLETION OF ALL WORK SHOWN OR REASONABLY IMPLIED BY THESE DRAWINGS AND/OR SPECIFICATIONS. THE GENERAL CONTRACTOR SHALL CONFIRM ALL DIMENSIONS AND CONDITIONS AT THE SITE AND SHALL IMMEDIATELY NOTIFY THE CONTRACTING OFFICER IN WRITING OF ANY DISCREPANCIES.

17. DETAILS TAKE PRECEDENCE OVER PLANS AND ELEVATIONS - LARGER SCALE DRAWINGS TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS.

18. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMIT APPROVALS PRIOR TO THE COMMENCEMENT OF ANY WORK.

19. THE GENERAL CONTRACTOR SHALL FURNISH COPIES OF PERMITS, INSPECTIONS, AND CERTIFICATES TO THE CONTRACTING OFFICER AS REQUESTED ALONG WITH FIRST APPLICATION FOR PAYMENT.

20. THE GENERAL CONTRACTOR SHALL PROVIDE ALL PERMITS AND CLOSE OUT DOCUMENTS TO CONTRACTING OFFICER UPON COMPLETION OF PROJECT.

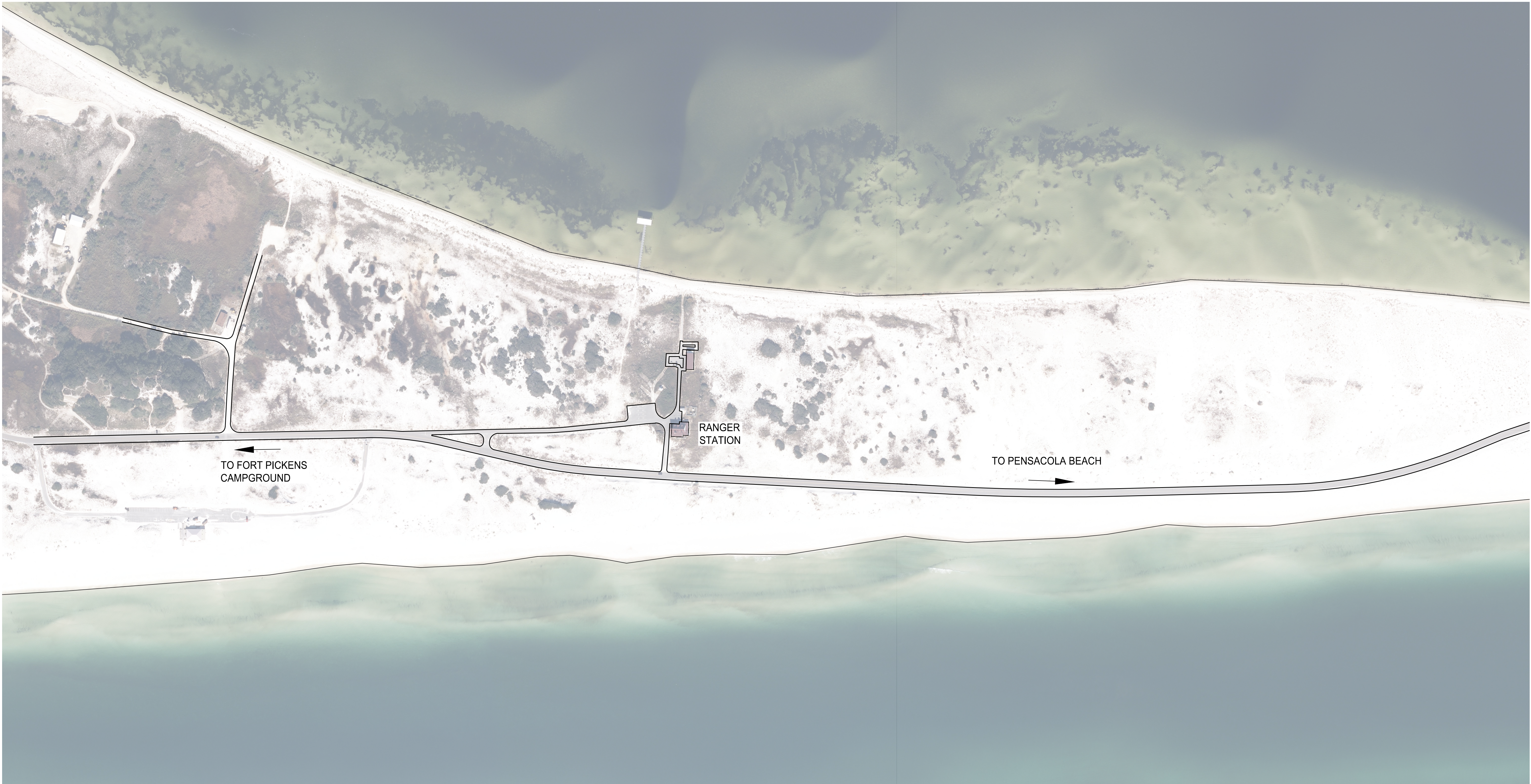
21. THE DESIGN OF THIS PROJECT IS BASED UPON INFORMATION PROVIDED BY NATIONAL PARK SERVICE THROUGH EXISTING DRAWINGS AND ON-SITE OBSERVATION. VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING WORK. IF EXISTING CONDITIONS ARE NOT AS DEPICTED OR ANTICIPATED, NOTIFY THE CONTRACTING OFFICER IMMEDIATELY UPON DISCOVERY AND DO NOT PROCEED WITHOUT APPROVAL. IF CONTRACTOR PROCEEDS WITHOUT APPROVAL, THE CONTRACTOR ACCEPTS FULL LIABILITY FOR THAT PORTION OF CONSTRUCTION.

DEFINITIONS:

- A. DIMENSIONS NOTED AS "CLEAR" SHALL BE FROM FINISHED FACE TO FINISHED FACE.
- B. "TYPICAL" MEANS TYPICAL FOR ALL SIMILAR CONDITIONS, UNO.
- C. WHEREVER THE TERM "OR EQUAL" IS USED, IT SHALL MEAN EQUAL OR BETTER PRODUCT AS APPROVED BY THE CONTRACTING OFFICER.

A/E FIRM CROFT & ASSOCIATES KENNESAW, GEORGIA	DESIGNED: L.HALE	SUB SHEET NO. C1	TITLE OF PROJECT REPLACE EAST LIFT STATION TITLE OF SHEET GENERAL INFORMATION GULF ISLAND NATIONAL SEASHORE	DRAWING NO. <u>XX</u> XXXXXX
	 K.BATES			PMIS/PKG NO. 303760
	TECH. REVIEW: J. DOWNEY			SHEET
	DATE: 06/08/2023			<u>02</u> OF <u>11</u>

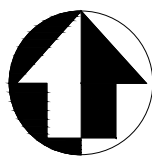
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1 SITE ACCESS PLAN VIEW
C2 SCALE A

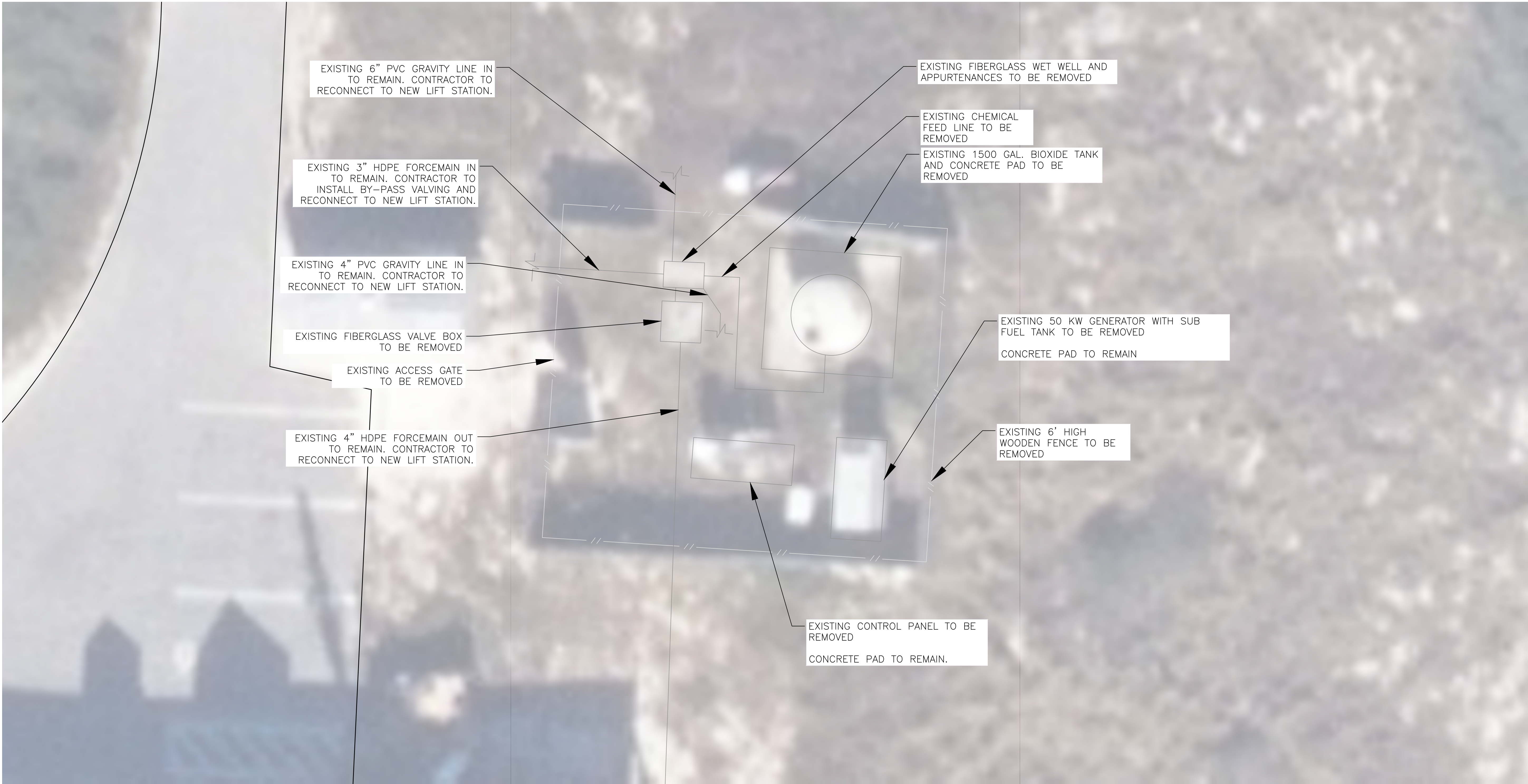
NOTES

1. APPROXIMATE 100'x75' AREA FOR CONTRACTOR LAYDOWN AND STAGING. EXACT LOCATION TO BE APPROVED BY THE CONTRACTING OFFICER, TEMPORARY FENCE TO BE INSTALLED BY THE CONTRACTOR FOR PROTECTION OF MATERIALS AND EQUIPMENT. CONTRACTOR SHALL REPAIR AREA TO ITS ORIGINAL CONDITION AT THE END OF CONSTRUCTION. ACCESS FOR CONSTRUCTION ACTIVITIES SHALL BE MONITORED BY THE CONTRACTING OFFICER IF THE GROUND IS WET AND SATURATED.
2. CONTRACTOR EQUIPMENT AND VEHICLES SHALL BE STORED AND PARKED WITHIN THE LAYDOWN AND STAGING AREA.
3. ALL ON-SITE ROAD SURFACE IS MACADAM UNLESS OTHERWISE STATED ON THE DRAWINGS.



A/E FIRM CROFT & ASSOCIATES KENNESAW, GEORGIA	DESIGNED: L.HALE	SUB SHEET NO. C2	TITLE OF PROJECT REPLACE EAST LIFT STATION	DRAWING NO. XX
	TECH. REVIEW: J. DOWNEY		TITLE OF SHEET SITE ACCESS PLAN	PMIS/PKG NO. 303760
	DATE: 06/08/2023		GULF ISLAND NATIONAL SEASHORE	SHEET 03 OF 11

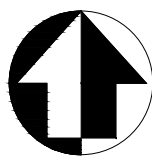
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- NOTES**
- EXISTING CHEMICAL FEED LINE TO BE REMOVED, NOT ABANDONED IN PLACE.
 - ALL COMPONENTS BEING REMOVED TO BE DISPOSED OF BY THE CONTRACTOR UNLESS OTHERWISE INSTRUCTED BY THE CONTRACTING OFFICER.

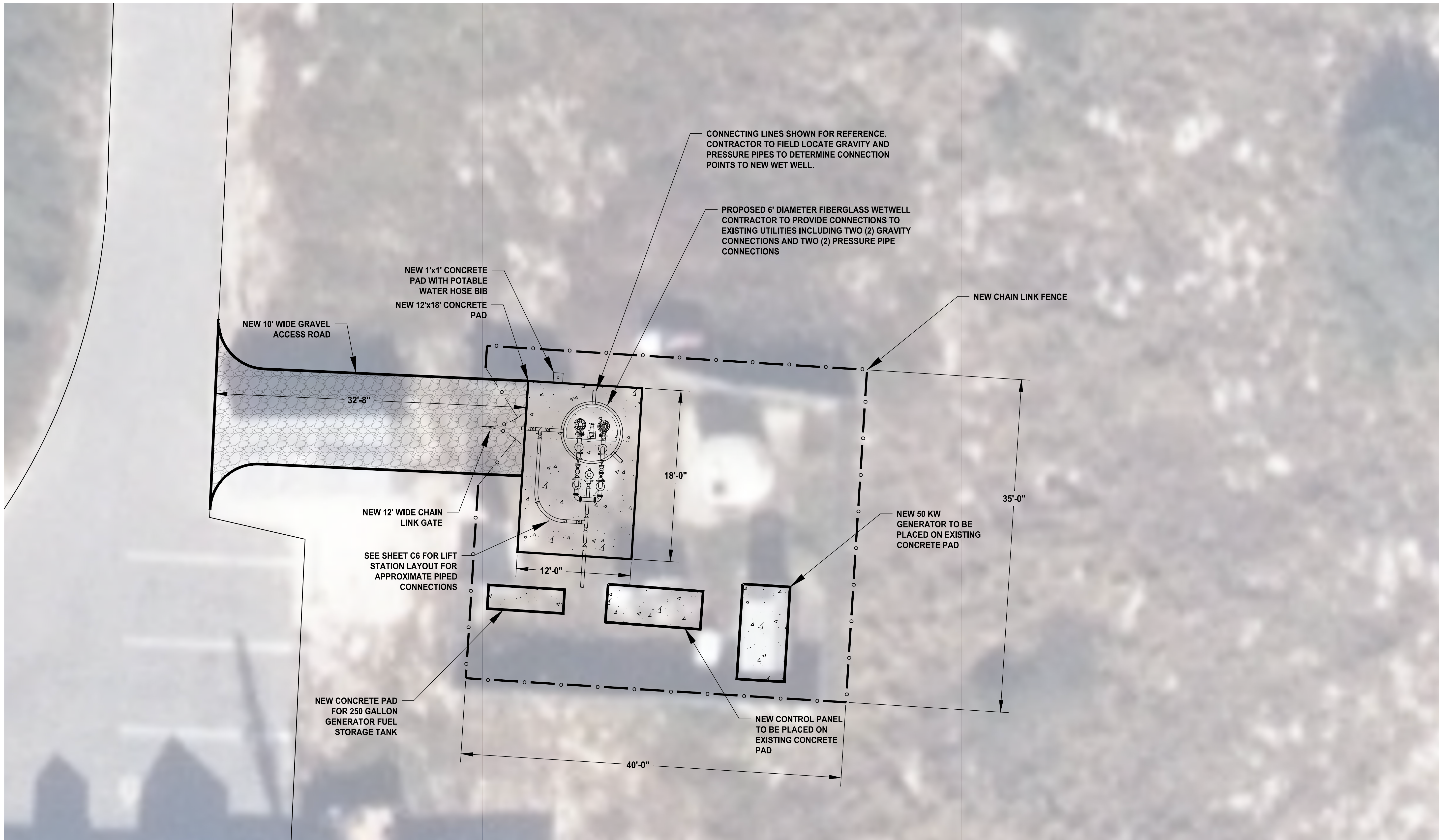
1
C3

DEMOLITION PLAN VIEW



A/E FIRM CROFT & ASSOCIATES KENNESAW, GEORGIA	DESIGNED: L.HALE	SUB SHEET NO. C3	TITLE OF PROJECT REPLACE EAST LIFT STATION TITLE OF SHEET DEMOLITION PLAN GULF ISLAND NATIONAL SEASHORE	DRAWING NO. XX
	TECH. REVIEW: J. DOWNEY			PMIS/PKG NO. 303760
	DATE: 06/08/2023			SHEET
				04 OF 11

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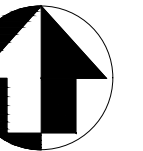


NOTES

- 4" PF FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) #57 STONE, 60 MIL GEOFABRIC WEED CONTROL LINER UNDER STONE PLACED AT ALL NON-PAVED AREAS WITHIN CHAIN LINK FENCE
- SEE SHEETS C5 & C6 FOR LIFT STATION PLAN AND SECTION DETAILS.
- SEE ELECTRICAL PLANS FOR ELECTRICAL CONNECTIONS
- CONTRACTOR SHALL BRING IN SAND FILL AS REQUIRED TO MATCH ORIGINAL GRADE.
- CONTRACTOR TO PROVIDE TEMPORARY PUMPING OF SANITARY SEWER TO MAINTAIN OPERATIONS THROUGHOUT CONSTRUCTION. TEMPORARY PUMPING SHALL BE SUBMITTED AND APPROVED BY THE CONTRACTING OFFICE PRIOR TO USE.
- APPROXIMATELY 60' IN 1" PVC MAY BE NEEDED FOR WATER LINE EXTENSION.

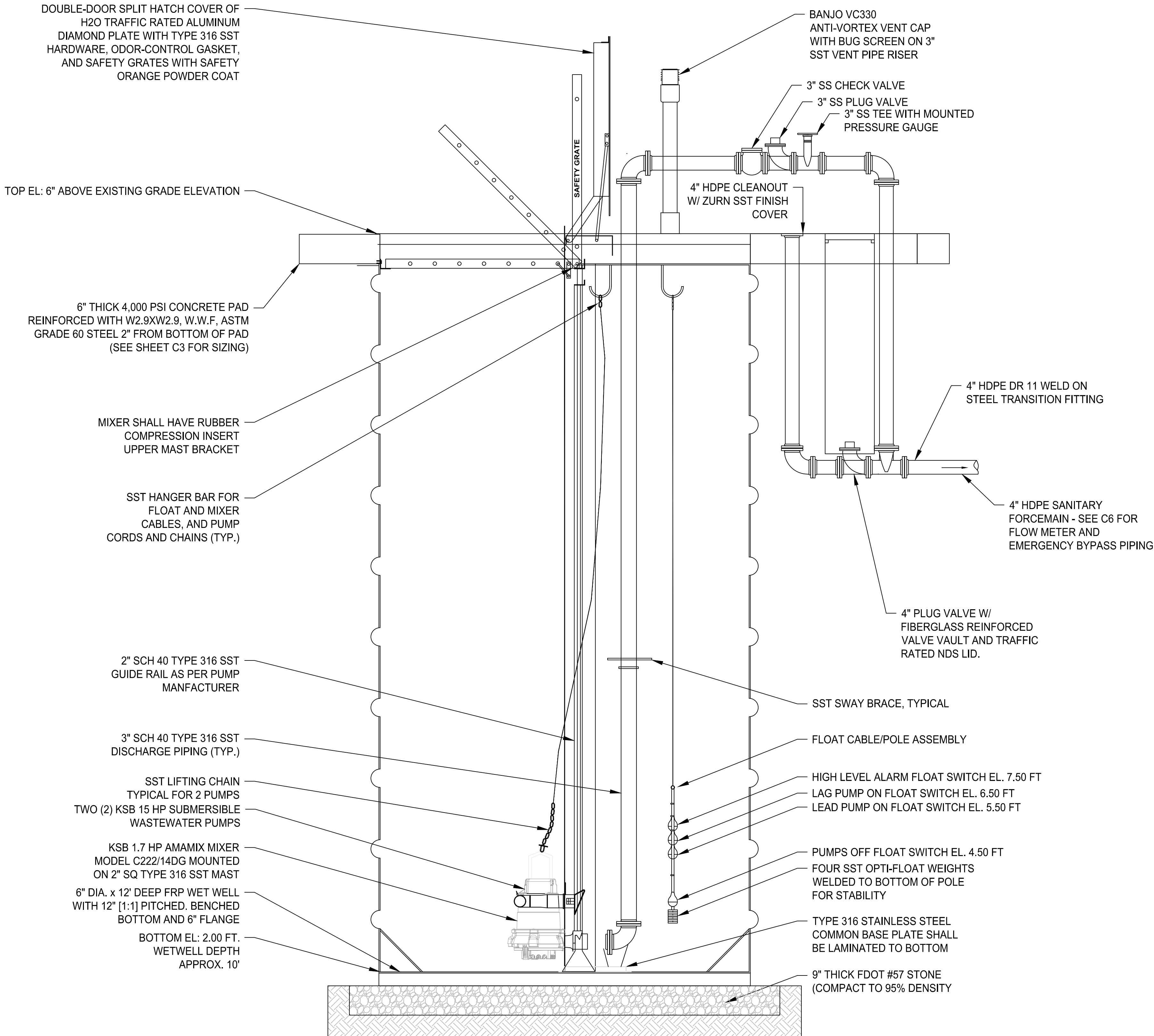
1 SITE PLAN
C4 SCALE A

SCALE A
5 0 5 10
SCALE OF FEET



A/E FIRM CROFT & ASSOCIATES KENNESAW, GEORGIA	DESIGNED: Lee Hale	SUB SHEET NO. C4	TITLE OF PROJECT REPLACE EAST LIFT STATION TITLE OF SHEET SITE PLAN GULF ISLAND NATIONAL SEASHORE	DRAWING NO. XX
	Ken Bates			PMIS/PKG NO. 303760
	TECH. REVIEW: Jim Downey			SHEET
	DATE: 06/08/2023			5 OF 11

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1
C5 LIFT STATION SECTION VIEW
NOT TO SCALE

NOTE:
FIBERGLASS WET WELL MUST SHIP COMPLETELY ASSEMBLED AND FOLLOWING ITEMS INTEGRATED: PIPE, FITTINGS, VALVES, PRESSURE BRACES, GAUGES, BRACES, BRACKETS, KSB GUIDE RAIL SYSTEMS, KSB MIXER MAST SYSTEM, ODOR REDUCTION GASKETED HATCH COVERS, 3" SST VENT PIPE WITH PVC "BANJO VENT" WITH SST BUG SCREEN, CONTAINMENT AREA DRAIN CONNECTION. IN ORDER TO ASSURE QUALITY, THE WET WELL AND VALVE BOX MUST BE SUPPLIED BY "FIBERGLASS TANK SOLUTIONS." SUBMITTAL DATA FROM FIBERGLASS TANK SOLUTIONS WILL INCLUDE STRUCTURAL AND ANTI-FLOTATION CALCULATIONS STAMPED BY THIRD PARTY STATE OF FLORIDA LICENSED ENGINEER AND WILL INCLUDE CONCRETE BASIN DESIGN.

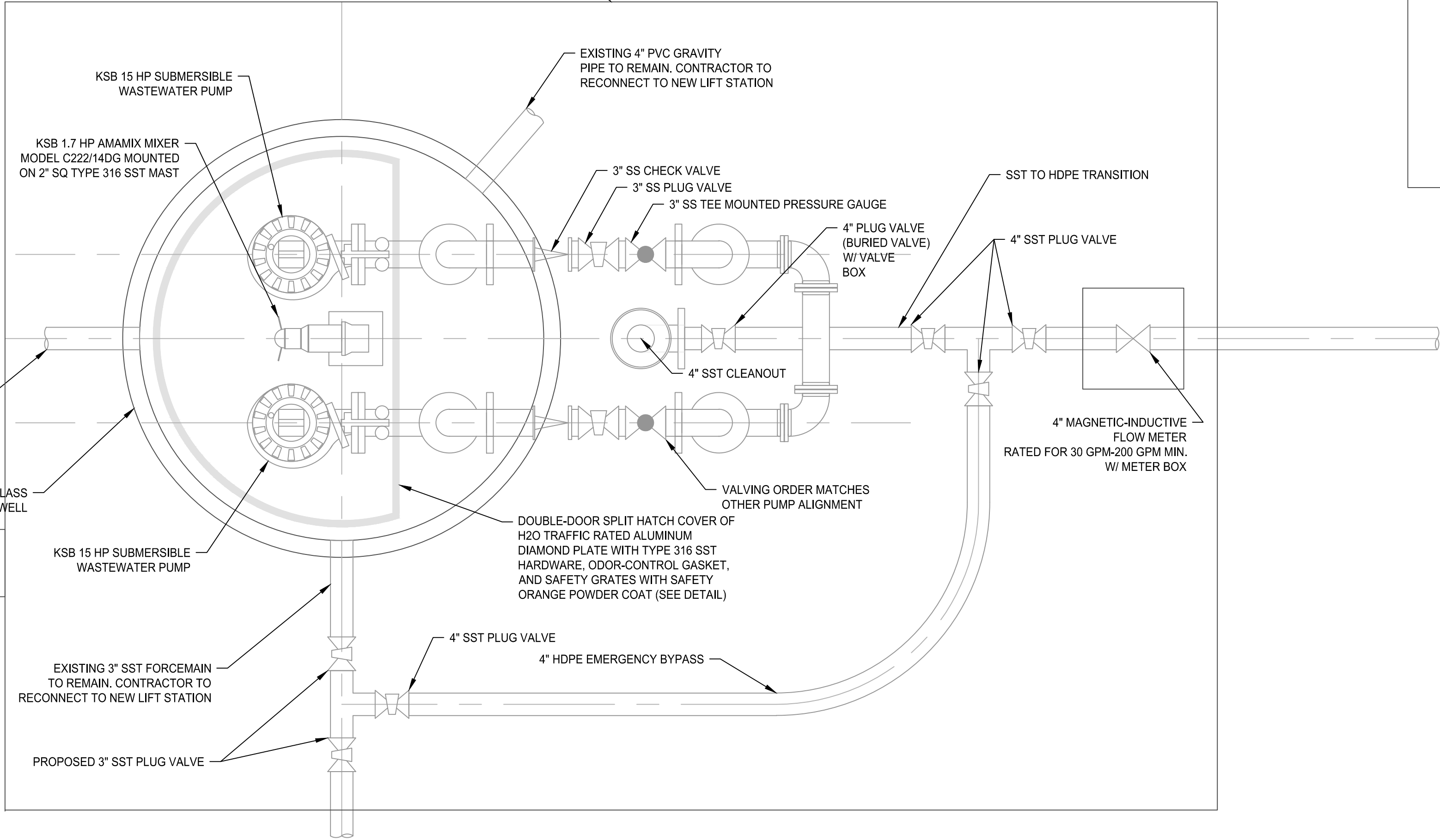
1. THE PUMPS SHALL HAVE A 5 YEAR 100% PARTS AND LABOR WARRENTY AS PROVIDED BY THE PUMP MANUFACTURER.
2. PRESSURE GAUGE SIZED TO READ NO MORE THAN 1-1/2 TIMES THE MAXIMUM PRESSURE PUMP PROVIDES AT DEAD HEAD.
3. FLOAT POLE ASSEMBLY CONSISTS OF A 1" SST PIPE WITH SST LIFTING CHAIN MOUNTED TO WELED EYE. CHAIN SHALL BE LONG ENOUGH TO POSITION THE FLOATS AT THE REQUIRED DEPTH. FIBER OPTIC "OPTI-FLOATS" ARE WEIGHTLESS AND MOUNT TO POLE WITH PIPE CLAMPS. ONE SST WEIGHT FOR EACH FLOAT IS WELDED TO BOTTOM OF FLOAT POLE FOR STABILITY.
4. ALL PIPE AND FITTINGS MUST BE 3" DIAMETER SCH 40 TYPE 316 STAINLESS STEEL W/ MINIMUM 125 LB FLANGES.
5. VALVES MUST BE 316 STAINLESS STEEL.
6. PIPE DISCHARGE PENETRATIONS FROM WET WELL MUST BE VIA INTERGRAL FIBERGLASS SLEEVES WITH RUBBER LINK SEALS AND SST HARDWARE.
7. KSB PUMP GUIDE RAIL SYSTEM MUST BE UTILIZED AND SHALL INCLUDE: 2"x3" BASE ELBOWS OF CAST "WHITE CHROMIUM IRON" WITH 5 YEAR ABRASION WARRENTY (STANDARD CAST IRON WILL NOT BE ACCEPTABLE), DUAL 2" SCH 40 TYPE 316 STAINLESS STEEL GUIDE RAILS, PUMP "CLAWS" THAT WRAP AROUND PIPE (RAIL CLAWS THAT FIT BETWEEN RAIL PIPE WILL NOT BE ACCEPTABLE).
8. KSB MIXER MAST MUST BE INTEGRATED INTO NEW WET WELL AND MUST BE HEAVY-DUTY 2"x2" SQUARE TYPE 316 SST WITH RUBBER COMPRESSION INSERT UPPER MAST BRACKET, AND LOWER BRACKET SECURED TO COMMON BASE PLATE.
9. HATCH COVERS BY USFF: ODOR REDUCTION GASKETED WET WELL HATCH SHALL BE 1/4" THICK DIAMOND PLATE ALUMINUM, ROUND WITH DOUBLE LEAFS AND SAFETY GRATES. EACH LEAF SHALL HAVE A SLAM LOCK. VALVE BOX SHALL BE 48"x48" SQUARE, DOUBLE-DOOR WITH SLAM LOCK (NO SAFETY GRATES).
10. EXISTING CONTROL PANEL AND ELECTRICAL BACKBOARDS/RACK TO REMAIN.
11. EXISTING PUMPS, MIXER, AND FLOATS SHALL BE SUBMITTED TO CERTIFIED KSB REPAIR SHOP "GULF COAST ELECTRIC MOTOR" LOCATED IN PENSACOLA, FL OR APPROVED EQUAL TO BE INSEPECTED, CLEANED. PUMPS AND MIXER SHALL BE PRESSURE WASHED HAVE KSB PAINT APPLIED AS NEEDED TO COVER ANY SCRATCHES AND TO MAKE LOOK "LIKE NEW". AFTER BEING CLEANED PUMPS, MIXER AND FLOTAS SHALL BE SUBMITTED TO NPS FOR STORAGE.
12. REPAIR KITS AND REPLACEMENT MIXER SHALL BE SUBMITTED TO NPS AS PART OF THE PROJECT.
13. ELEVATIONS SHOWN AS APPROXIMATE. NO SURVEY HAS BEEN PROVIDED. CONTRACTOR TO VERIFY ALL ELEVATIONS AND FIELD ADJUST TO MEET EXISTING CONDITIONS FOR PIPE PENETRATIONS.
14. FLOAT ELEVATIONS MAY BE ADJUSTED AS NEEDED. THE FOLLOWING HEIGHTS ARE THE REQUIRED FLOAT HEIGHTS MEASURED FROM THE BOTTOM OF THE WETWELL.
 - 14.1. LEAD PUMP ON: 2'-0"
 - 14.2. LAG PUMP ON: 3'-0"
 - 14.3. HIGH LEVEL ALARM: 4'-0"
 - 14.4. HIGH LEVEL ALARM SHOULD BE AT LEAST 6" BELOW LOWEST GRAVITY INVERT INTO THE WET WELL.
15. UPON FINAL DEPTH DETERMINATION MADE BY CONTRACTOR, CONTRACTOR TO PROVIDE BUOYANCY CALCULATIONS AND MUST INSTALL PROPER COUNTERMEASURES TO PREVENT UPLIFT. DESIGN FOR UPLIFT PREVENTION MUST BE SIGNED AND SEALED BY A STATE OF FLORIDA REGISTERED PE. FOR COST ESTIMATING PURPOSES, AN 8' DIAMETER CONCRETE SLAB 2.0' THICK AS THE BASED OF THE WET WELL MAY BE CONSIDERED.

A/E FIRM CROFT & ASSOCIATES KENNESAW, GEORGIA	DESIGNED: L.HALE	SUB SHEET NO. C5	TITLE OF PROJECT REPLACE EAST LIFT STATION TITLE OF SHEET LIFT STATION DETAIL GULF ISLAND NATIONAL SEASHORE	DRAWING NO. XX XXXXXX
	K.BATES			PMIS/PKG NO. 303760
	TECH. REVIEW: J. DOWNEY			SHEET
	DATE: 06/08/2023			06 OF 11

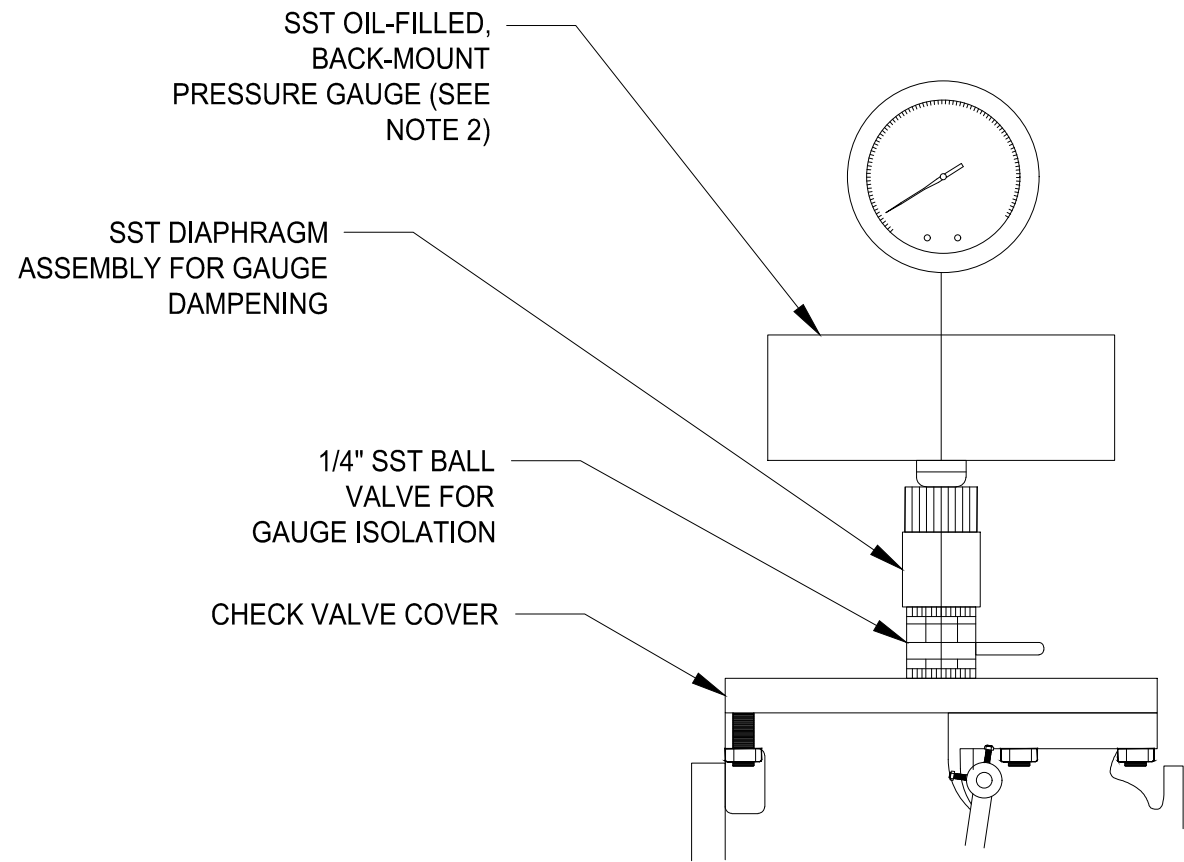
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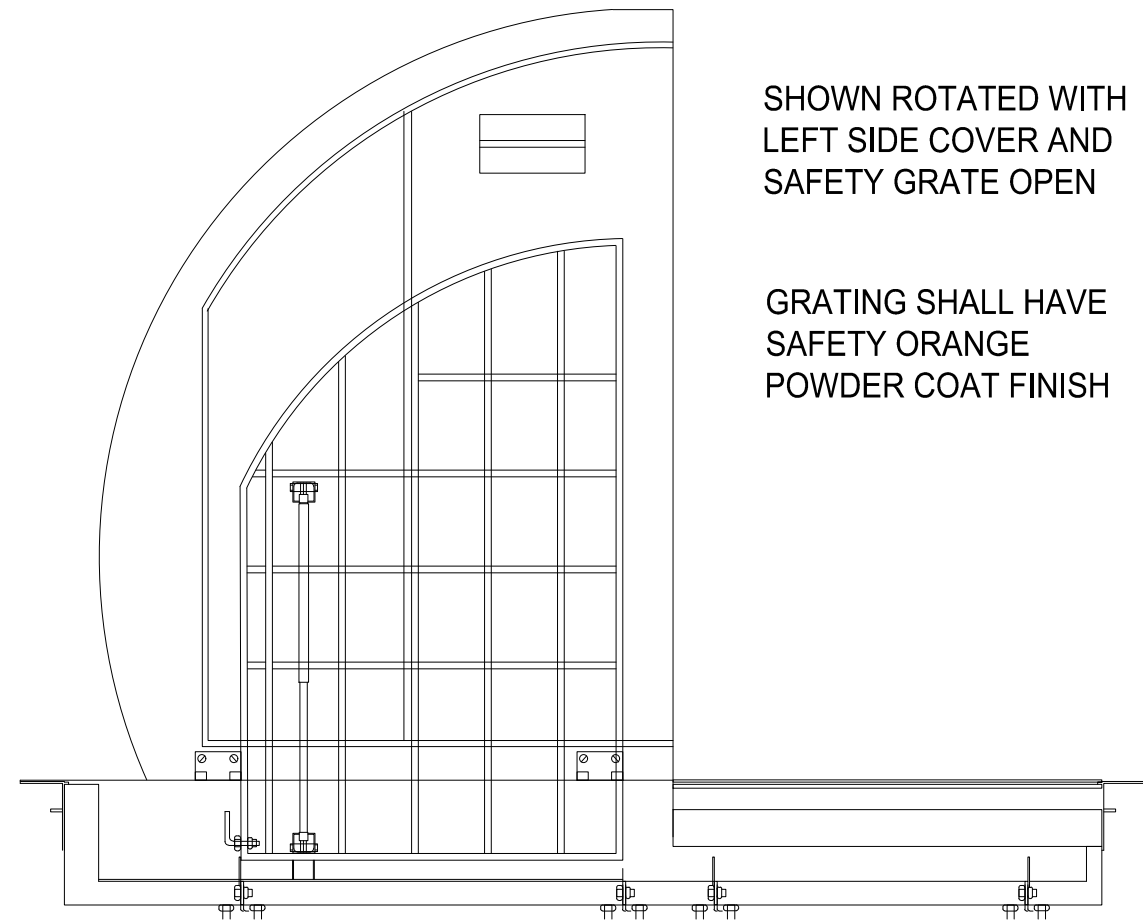
1. EMERGENCY BYPASS IS NOT ABLE TO SUSTAIN FULL DESIGN FLOW. THE FLOW RATE WILL BE REDUCED, BUT COULD PROVIDE RELIEF OF ALTERNATIVE MEANS OF FLOWING WASTEWATER IN CASE OF EMERGENCY OUTAGE AT THIS LIFT STATION. FLOW METER IS DOWNSTREAM OF EMERGENCY BYPASS FOR ACCURATE CALCULATION OF FLOW IN EMERGENCY SITUATIONS.
2. ALL VALVE VAULTS AND METER BOX SHALL HAVE TRAFFIC RATED LIDS.



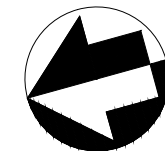
1 LIFT STATION PLAN VIEW
NOT TO SCALE



2 PRESSURE GAUGE DETAIL
NOT TO SCALE



3 WETWELL HATCH DETAIL
NOT TO SCALE



A/E FIRM CROFT & ASSOCIATES KENNESAW, GEORGIA	DESIGNED: L.HALE	SUB SHEET NO. C6	TITLE OF PROJECT REPLACE EAST LIFT STATION		DRAWING NO. XX
	TECH. REVIEW: J. DOWNEY		TITLE OF SHEET LIFT STATION LAYOUT	XXXXXX	
	DATE: 06/08/2023			PMIS/PKG NO. 303760	
				SHEET 07 OF 11	
	GULF ISLAND NATIONAL SEASHORE				

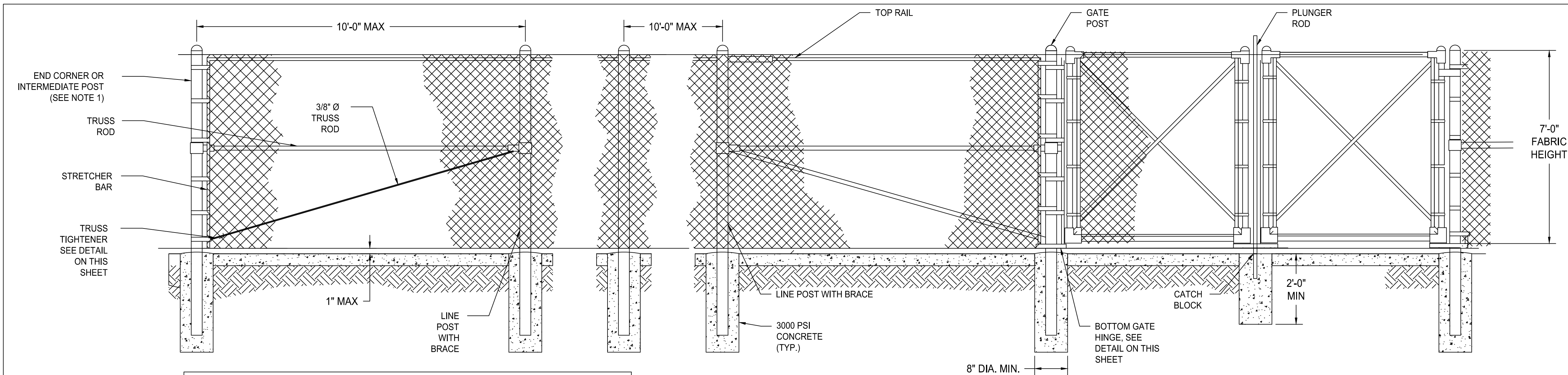


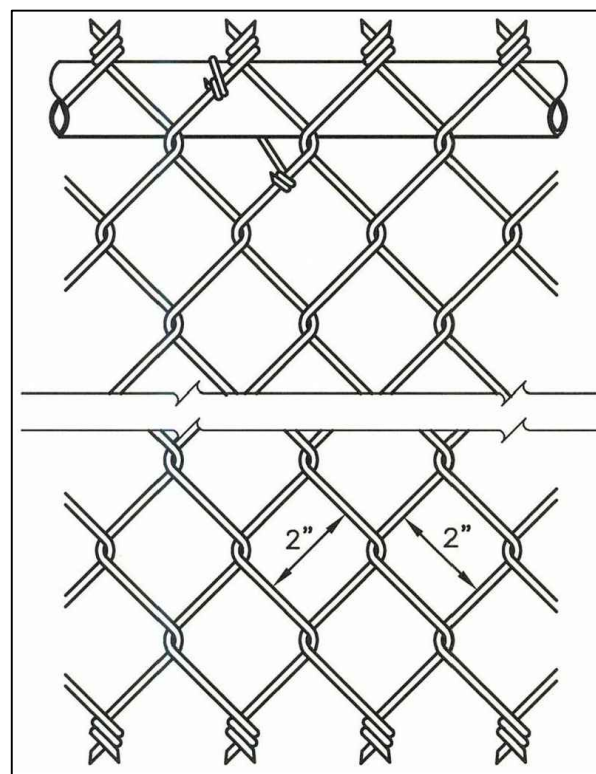
TABLE 1		
GATE LEAF WIDTHS	GATE POST FOOTING SIZE	GATE FRAME SIZE
6'-0" WIDE	1'-0" DIA. X 3'-0" DEEP	1,900" O.D., 2.28 LBS/FT

TABLE 2		
FABRIC HEIGHT	END CORNER OR INTERMEDIATE POST FOOTING SIZE	LINE POSTS FOOTING SIZE
7'-0"	1'-0" DIA. X 3'-6" DEEP	10" DIA. X 3'-6" DEEP

1 CHAINLINK FENCE ELEVATION VIEW

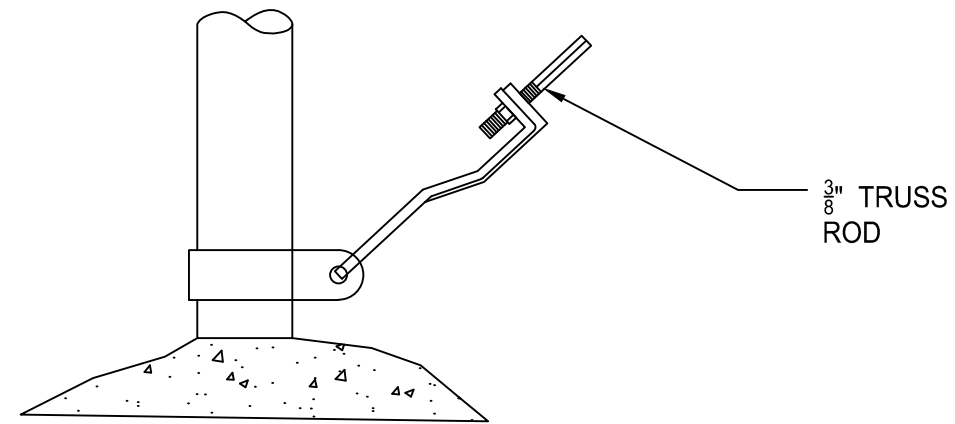
NOT TO SCALE

- NOTES:
- BRACING SYMMETRICAL ABOUT CORNER AND INTERMEDIATE POSTS.
 - FASTEN THE BOTTOM TENSION WIRE WITHIN THE BOTTOM 6" OF FABRIC
 - ALL TENSION WIRE SHALL MATCH FENCE FABRIC
 - TENSION WIRE SHALL BE SECURELY FASTENED TO THE CORNER POSTS, AND SHALL BE TAUT AND FREE OF SAG.
 - FENCE INSTALLER TO PROVIDE DETAIL FOR GROUNDING FENCE FOR LIGHTING AT ALL FOUR CORNERS.
 - FENCING SHALL PROVIDE 1" WIDE, 4" THICK STRIP OF CONCRETE WITH THE FENCE CENTERED OVER THE STRIP TO PROVIDE EASIER MAINTENANCE FOR PARK STAFF. CONCRETE TO BE REINFORCED WITH W2.9XW2.9 W.R.F.



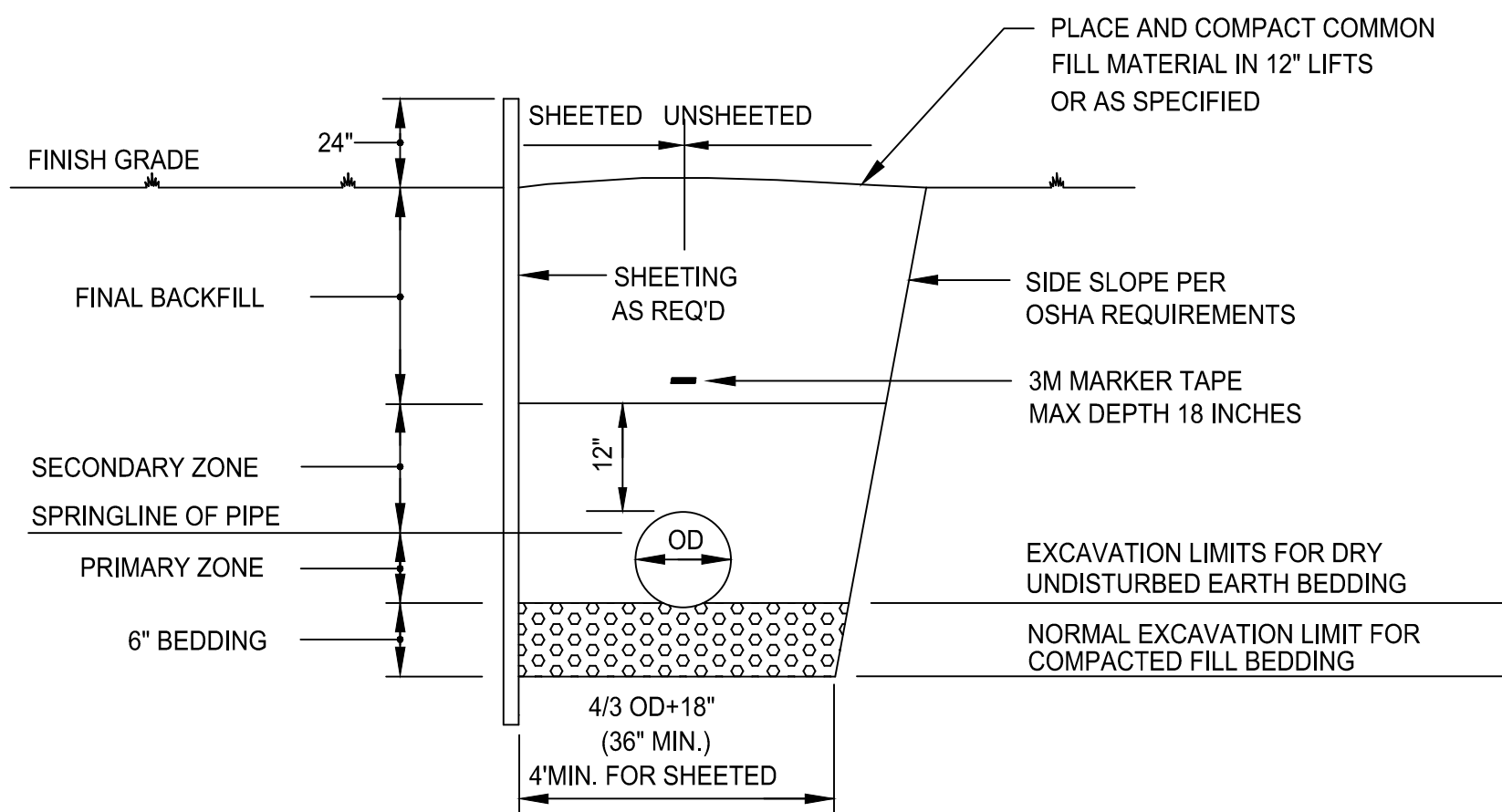
2 TYPICAL FABRIC TIE DETAIL

NOT TO SCALE



3 TRUSS TIGHTENER DETAIL

NOT TO SCALE

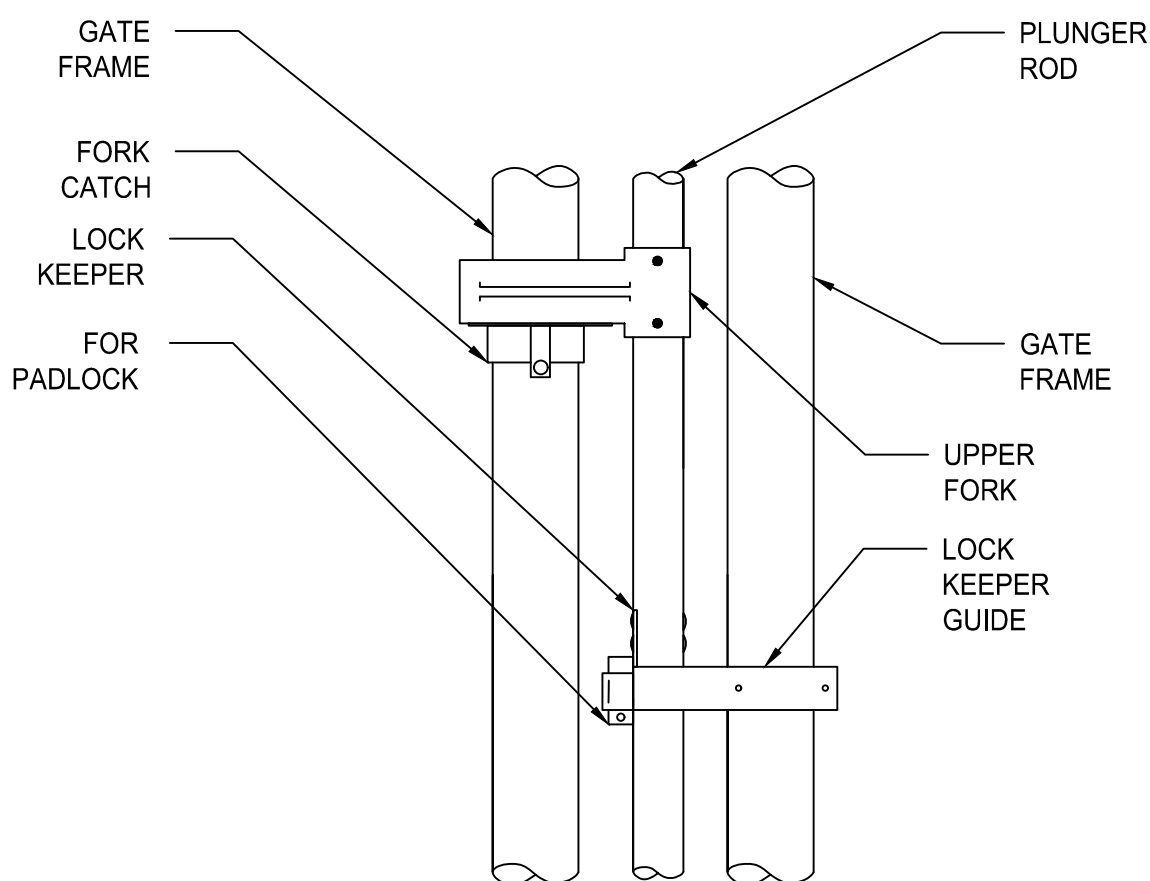


6 TYPICAL PIPE TRENCH

NOT TO SCALE

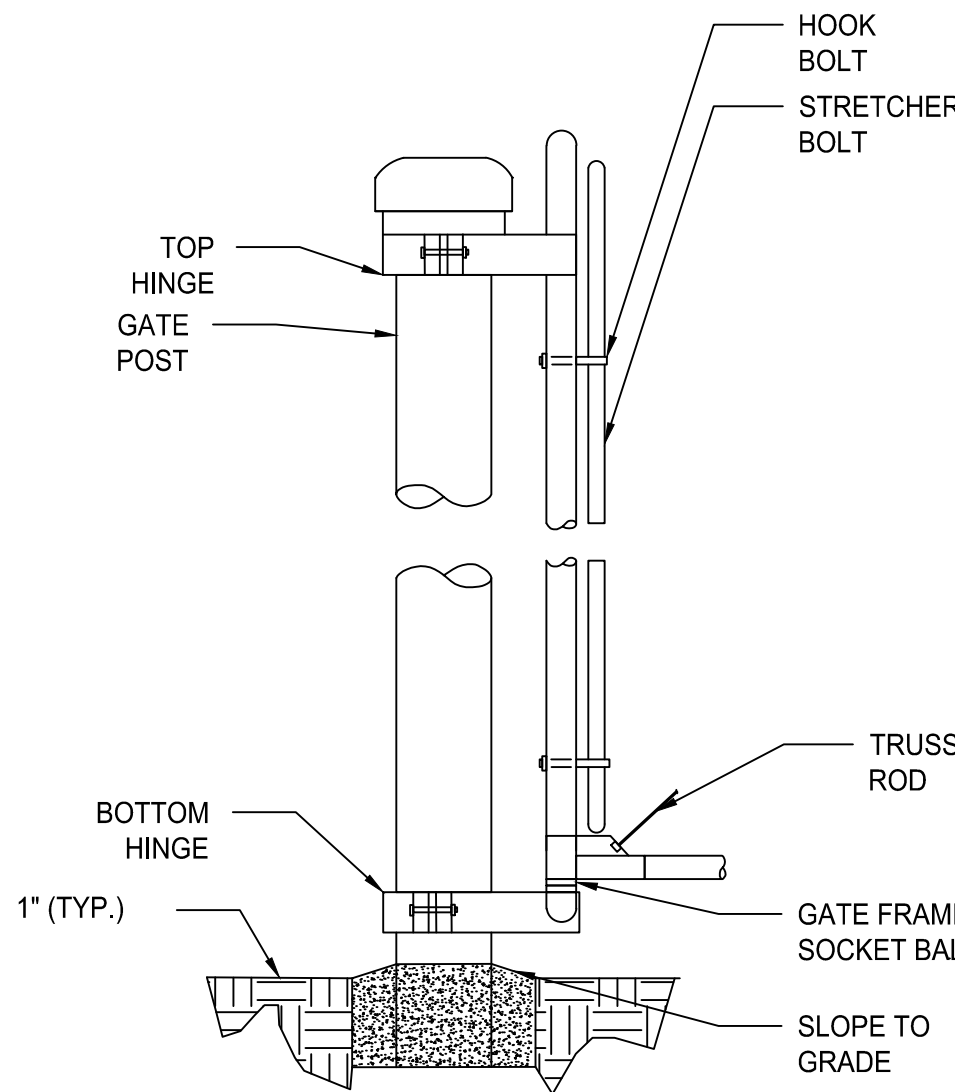
NOTES:

- BEDDING SHALL BE #57 STONE IF PIPE BEDDING IS YIELDING
- PRIMARY & SECONDARY ZONES SHALL BE INDIVIDUALLY COMPACTED LAYERS OF CLEAN FILL
- COMPACTION OF BACKFILL BENEATH PAVEMENT SHALL BE 98% OF AASHTO T-180, ALL OTHER AREAS SHALL BE 95% OF AASHTO T-180 UNLESS OTHERWISE REQUIRED BY AN AUTHORITY HAVING JURISDICTION
- PLACE APPROVED 3M MARKER TAPE OR EQUAL DIRECTLY ABOVE THE CENTERLINE OF THE PIPE.
- SLOPES, BENCHING, OR SHORING SHALL BE PER OSHA REQUIREMENTS
- SHEETING SHOWN FOR REFERENCE. CONTRACTOR TO FOLLOW ALL OSHA AND OTHER SAFETY STANDARDS WHEN USING SHEETING.



4 TYPICAL GATE LOCKING DEVICE

NOT TO SCALE



5 GATE HINGE DETAIL

NOT TO SCALE

A/E FIRM CROFT & ASSOCIATES KENNESAW, GEORGIA	DESIGNED: L.HALE CAD K.BATES	SUB SHEET NO. C7	TITLE OF PROJECT REPLACE EAST LIFT STATION TITLE OF SHEET DETAILS GULF ISLAND NATIONAL SEASHORE	DRAWING NO. XX XXXXXX
	TECH. REVIEW: J. DOWNEY			PMIS/PKG NO. 303760
	DATE: 06/08/2023			SHEET
				08 OF 11



ABBREVIATIONS:			
A	AMPS, AMPERES	MC	METAL-CLAD CABLE
AB	AS-BUILT	MCB	MAIN CIRCUIT BREAKER
AC	ALTERNATING CURRENT	MCC	MOTOR CONTROL CENTER
AFCI	ARC FAULT CIRCUIT INTERRUPTOR	MFR	MANUFACTURER
AFF	ABOVE FINISHED FLOOR	MLO	MAIN LUGS ONLY
AFG	ABOVE FINISHED GRADE	MTD	MOUNTED
AHJ	AUTHORITY HAVING JURISDICTION	MTG	MOUNTING
AIC	AMPERE INTERRUPTING CAPACITY	MTR	METER
AL	ALARM	MTS	MANUAL TRANSFER SWITCH
AM	AMMETER	N	NEUTRAL
AT	ASTRONOMIC TIMER	NC	NORMALLY CLOSED
ATS	AUTOMATIC TRANSFER SWITCH	NEC	NATIONAL ELECTRICAL CODE
AWG	AMERICAN WIRE GAUGE	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATED
C	CONDUIT	NO	NORMALLY OPEN
CB	CIRCUIT BREAKER	NOM	NOMINAL
CCTV	CLOSED CIRCUIT TELEVISION	NTS	NOT TO SCALE
CKT	CIRCUIT	OC	OVERCURRENT
CL	CENTER LINE	OCPD	OVERCURRENT PROTECTION DEVICE
CLG	CEILING	OD	OUTSIDE DIAMETER
CLR	CLEARANCE	OL	OVERLOAD
COR	THE CONTRACTING OFFICER REPRESENTATIVE	P	POLE
CPVC	CHLORINATED POLYVINYL CHLORIDE	PB	PUSHBUTTON
CT	CURRENT TRANSFORMER	PH	PHASE
CTR	COUNTER	PNL	PANELBOARD
CU	COPPER	POE	POWERED OVER
DC	DIRECT CURRENT	PVC	POLYVINYL CHLORIDE
DIA	DIAMETER	QTY	QUANTITY
DS	DISCONNECT SWITCH	RA	REMOTE ANNUNCIATOR
EA	EACH	RCC	RELAY CONTROL CABINET
ELEC	ELECTRICAL	REF	REFERENCE
EMER	EMERGENCY	REQD	REQUIRED
EMT	ELECTRICAL METALLIC TUBING	RMC	RIGID METAL CONDUIT
ES	EMERGENCY STOP	SW	SWITCH
FA	FIRE ALARM	SWB	SWITCHBOARD
FACP	FIRE ALARM CONTROL PANEL	SWGR	SWITCHGEAR
FC	FULLY CLOSED	UC	UNDER COUNTER
FLA	FULL LOAD AMPS	UL	UNDERWRITERS LABORATORY
FO	FULLY OPEN	UNO	UNLESS NOTED OTHERWISE
FU	FUSE	V	VOLT(S)
GC	GENERAL CONTRACTOR	VA	VOLT-AMPERE(S)
GFCI	GROUND FAULT CIRCUIT INTERRUPTOR	VFD	VARIABLE FREQUENCY DRIVE
GND	GROUND	VSD	VARIABLE SPEED DRIVE
HP	HORSEPOWER	W	WATT(S)
HZ	HERTZ	WP	WATER PROOF
IMC	INTERMEDIATE METAL CONDUIT	XFMR	TRANSFORMER
JB	JUNCTION BOX		
KVA	KILO-VOLT AMP(S)		
KW	KILO-WATT		
KWH	KILO-WATT HOUR(S)		
LTG	LIGHTING		
LTS	LIGHTS		
LO	LOCKOUT		

1 WORK SITE
E001

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A/E FIRM CROFT & ASSOCIATES KENNESAW, GEORGIA	DESIGNED: J. SERRADAS	SUB SHEET NO. E001	LOCATION WITHIN PARK EAST LIFT STATION TITLE OF SHEET ELECTRICAL LEGEND GULF ISLAND NATIONAL SEASHORE	DRAWING NO. XX XXXXXX
	TECH REVIEW: J. MORGAN			PMIS/PKG NO. GUIS 303760
	DATE: 6/8/2023			SHEET 9 OF 11



1 METER,SERVICE DISC, ATS
E301



2 ATS, GEN. DISC, AUTO-DIALER
E301



3 EXISTING DIESEL GENERATOR
E301



4 PUMP CONTROLLER
E301



5 PANEL SERVING AREA
E301




6 PANEL, SPD, PUMP CONTROLLER
E301

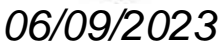
NOTE: THIS SHEET IS PROVIDED FOR REFERENCE OF EXISTING CONDITIONS AND EQUIPMENT LAYOUT.



A/E FIRM CROFT & ASSOCIATES KENNESAW, GEORGIA	DESIGNED: J. SERRADAS	SUB SHEET NO. E301	LOCATION WITHIN PARK EAST LIFT STATION TITLE OF SHEET EXISTING ELECTRICAL CONDITIONS GULF ISLAND NATIONAL SEASHORE	DRAWING NO. XX XXXXXX
	J. SERRADAS TECH REVIEW:			PMIS/PKG NO. GUIS 303760
	DATE: 6/8/2023			SHEET 10 OF 11

- A. REMOVE EXISTING PUMPS AND WELL ASSEMBLIES, ELECTRICAL CONNECTIONS, CONDUIT, AND WIRING MARKED FOR DEMO BACK TO SOURCE
- B. ALL UNDERGROUND CONDUIT TO BE BURIED A MINIMUM OF 24 INCHES BELOW GRADE.
- C. MINIMIZE OUTAGES, COORDINATE ANY REQUIRED OUTAGES WITH CONTRACTING OFFICER.
- D. PRIOR TO DEMOLITION, FIELD VERIFY CONDUITS, CONDUCTORS, AND CABLES THAT PASS THROUGH AND SERVE AREAS OUTSIDE THE SCOPE OF WORK. MAINTAIN CONTINUITY OF SYSTEMS. PROTECT OR RELOCATE SYSTEMS TO PREVENT DAMAGE. RESTORE SYSTEMS TO NORMAL OPERATION. COORDINATE SYSTEM OUTAGES WITH OWNER.
- E. IDENTIFY NONFUNCTIONING EQUIPMENT AND DEVICES TO REMAIN AFTER DEMOLITION. NOTIFY CONTRACTING OFFICER IN WRITING PRIOR TO DEMOLITION. UPON COMPLETION OF WORK, ENSURE THAT EXISTING EQUIPMENT AND DEVICES OPERATE PROPERLY.
- F. IN AREAS REQUIRING THE PERFORMANCE OF WORK OF OTHER TRADES, CAREFULLY DISCONNECT, MAKE SAFE, REMOVE AND STORE ELECTRICAL ITEMS IN PATH OF WORK. REINSTALL AND RECONNECT AFTER COMPLETION OF OTHERS TRADE'S WORK.
- G. DRAWINGS REFLECT EXISTING CONDITIONS FROM GENERAL OBSERVATIONS AND ARE NOT INTENDED TO INDICATE DETAILS OR DIMENSIONS. VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK. NOTIFY CONTRACTING OFFICER IN WRITING IF CONDITIONS ARE DISCOVERED THAT PREVENT EXECUTION OF WORK.
- H. UPDATE PANELBOARD DIRECTORIES TO INCLUDE MODIFICATIONS BY THIS PROJECT. TRACE CIRCUITS TO IDENTIFY UNLABELED LOADS.
- I. ALL NEW CONDUIT SHALL BE CPVC BELOW GRADE AND PVC-COATED RIGID METAL CONDUIT ABOVE GRADE.
- J. ALL NEW EXTERIOR ENCLOSURES SHALL BE NEMA 4X RATED.
- K. ALL WIRING TO BE COPPER THHN/THWN. ANY WIRING DIFFERENT THAN THIS SPECIFICATION MUST BE APPROVED BY THE CONTRACTING OFFICER PRIOR TO USE.

<div style="text-align: center;">  </div> <div style="text-align: center;"> RISER SHEET NOTES SEE MASTER KEY ON E101 FOR COMPLETE LIST </div>	
TAG #	TAG DESCRIPTION
1	SERVICE METER, EXISTING TO REMAIN.
2	SERVICE DISCONNECT, EXISTING TO REMAIN.
3	DEMO EXISTING AUTOMATIC TRANSFER SWITCH
4	DEMO GENERATOR DISCONNECT SWITCH.
5	RANGER STATION AUTO-DIALER, EXISTING TO REMAIN.
6	EXISTING 60A MCB, 120/240V, 1Ø, 4W, PANEL SERVING AREA TO REMAIN.
7	SURGE PROTECTION DEVICE, EXISTING TO REMAIN.
8	DEMO EXISTING PUMP CONTROLLER, STEEL CHANNEL SYSTEM TO REMAIN.
9	PROVIDE AND INSTALL NEW PUMP CONTROLLER, MOUNT TO EXISTING STEEL CHANNEL SYSTEM.
10	PROVIDE 2#12 & 1#12G. IN 3/4" CONDUIT FOR GFCI RECEPTACLE.
11	PROVIDE 3#4 & 1#10G. IN 1-1/2" CONDUIT FOR LIFT PUMP MOTOR ROUTED A MINIMUM OF 24"BELOW GRADE.
12	PROVIDE 3#12 & 1#12G. IN 1" CONDUIT FOR MIXER MOTOR ROUTED A MINIMUM OF 24"BELOW GRADE.
13	PROVIDE AND INSTALL NEW 200A, 120/240V, 1Ø, 4W, AUTOMATIC TRANSFER SWITCH.
14	DEMO EXISTING 50KW DIESEL GENERATOR AND CONCRETE HOUSEKEEPING PAD.
15	PROVIDE AND INSTALL NEW 80KW PROPANE GENERATOR WITH 250 GALLON PROPANE TANK AND ALUMINUM SOUND ATTENUATOR ENCLOSURE. REFER TO 1/C4 FOR MORE INFORMATION ON PROPANE TANK LOCATION.
16	PROVIDE NEW CONCRETE HOUSEKEEPING PAD FOR 80KW GENERATOR. SEE DETAIL 5/E501 FOR MORE INFORMATION, WIDTH AND LENGTH TO BE COORDINATED WITH ACTUAL GENSET SIZE.
17	REPLACE CONDUIT AND WIRING ONE FOR ONE, ROUTE UNDERGROUND FROM PANEL LP TO GENERATOR.
18	DEMO CONDUIT AND FEEDERS BACK TO ATS,
19	REPLACE CONDUIT AND WIRING ONE FOR ONE, ROUTE UNDERGROUND FROM ATS TO GENERATOR.
20	EXISTING CONDUIT AND WIRING. LEAVE INTACT.
21	PROVIDE AND INSTALL CONDUIT SEALS AS REQUIRED BY N.E.C. CLASS 1 DIVISION 1.
22	INCOMING SERVICE FROM EXISTING UTILITY TRANSFORMER.
23	PROVIDE AND INSTALL (1 SET) 4#3/0, 1#6 GND IN 2" CONDUIT FROM ATS TO PUMP CONTROLLER.
24	PROVIDE AND INSTALL (1 SET) 4#3/0, 1#6 GND IN 2" CONDUIT FROM ATS TO GENERATOR ROUTED A MINIMUM OF 24"BELOW GRADE.
25	PROVIDE AND INSTALL CONTROL WIRE FROM ATS TO GENERATOR IN 1" CONDUIT ROUTED A MINIMUM OF 24"BELOW GRADE.
26	PROVIDE AND INSTALL (1 SET) 3#12 & 1#12G. IN 3/4" CONDUIT ROUTED A MINIMUM OF 24"BELOW GRADE FOR GENERATOR BATTERY CHARGER.
27	ENSURE ATS HAS ADEQUATELY SIZED LOAD LUGS TO DOUBLE FEED BOTH EXISTING PANEL AND NEW PUMP CONTROLLER.
28	ELECTRICAL EQUIPMENT LOCATED INSIDE OF PUMP CONTROLLER ENCLOSURE.



<div><div><div>A/E FIRM</div><div>CROFT & ASSOCIATES</div></div><div><div>KENNESAW, GEORGIA</div></div></div>	DESIGNED: J. SERRADAS	<div>SUB SHEET NO.</div> <div>E501</div>	LOCATION WITHIN PARK EAST LIFT STATION	DRAWING NO. XX
	<div>CADD</div> J. SERRADAS		TITLE OF SHEET ELECTRICAL RISER	XXXXXX
	TECH REVIEW: J. MORGAN			PMS/PKG NO. GUIS 303760
	DATE: 6/8/2023		GULF ISLAND NATIONAL SEASHORE	SHEET 11 OF 11