South Padre Island Vehicular Drive Over and Pedestrian Walkover AT: OWNER:

Fantasy Circle Beach Public Access South Padre Island, Texas **PROJECT & STRUCTURAL ENGINEER:**

GREEN, RUBIANO & ASSOCIATES 1220 WEST HARRISON HARLINGEN, TEXAS 78550 P: 956-428-4461 GRA@GRAENGINEERING.COM

PROJECT SHEET INDEX: **G0.0 COVER SHEET** GLO INFORMATION SHEET INDEX: **GLO-A1 VOLUME AND LOCATION OF DUNE CUT** GLO-A2 VOLUME AND LOCATION OF DUNE FILL **GLO-B1 AREAS OF VEGETATION IMPACTED** GLO-B2 AREAS OF RE-VEGETATION/NEW VEGETATION GLO-C1 PROPOSED SWPPP PLAN STRUCTURAL SHEET INDEX: S1.1 ACCESSIBILITY STANDARDS S1.2 ACCESSIBILITY STANDARDS S1.3 SITE AERIAL AND GENERAL NOTES S1.4 EXISTING SITE PLAN S1.5 SITE PLAN S1.5A SITE PLAN LAYOUT WITH AERIAL OVERLAY SITE GRADING PLAN S1.6 ENLARGED SITE IMPROVEMENT PLAN S1.7 GENERAL STRUCTURAL NOTES S2.0 S2.1 GENERAL STRUCTURAL NOTES VEHICULAR DRIVE OVER AND PEDESTRIAN S2.2 WALKOVER FRAMING PLAN S2.3 FRAMING DETAILS FRAMING DETAILS S2.4 S2.5 FRAMING DETAILS S2.6 FRAMING DETAILS S2.7 WALKOVER ELEVATIONS S2.8 **RESTROOM PLAN AND ELEVATION DETAILS** S2.9 **RESTROOM SECTIONS**

CIVIL ENGINEER: HALFF

1075 PAREDES LINE ROAD SUITE B BROWNSVILLE, TEXAS 78526 P: 956-303-7100

CIVIL SHEET INDEX:

- C1.1 GENERAL NOTES

LANDSCAPE:

SSP DESIGN LLC 789 E. WASHINGTON ST. **BROWNSVILLE, TEXAS 78520** P: 956-547-9977 F: 956-547-9977

LANDSCAPE SHEET INDEX:

- L1.01 IRRIGATION PLAN
- L1.02 IRRIGATION DETAILS
- L2.01 LANDSCAPE PLAN

- S2.10 PLAN DETAILS
- S2.11 RESTROOM ROOF AND CEILING PLAN
- S2.12 RESTROOM FOUNDATION PLAN AND DETAILS
- S2.13 RESTROOM FRAMING PLAN AND DETAILS



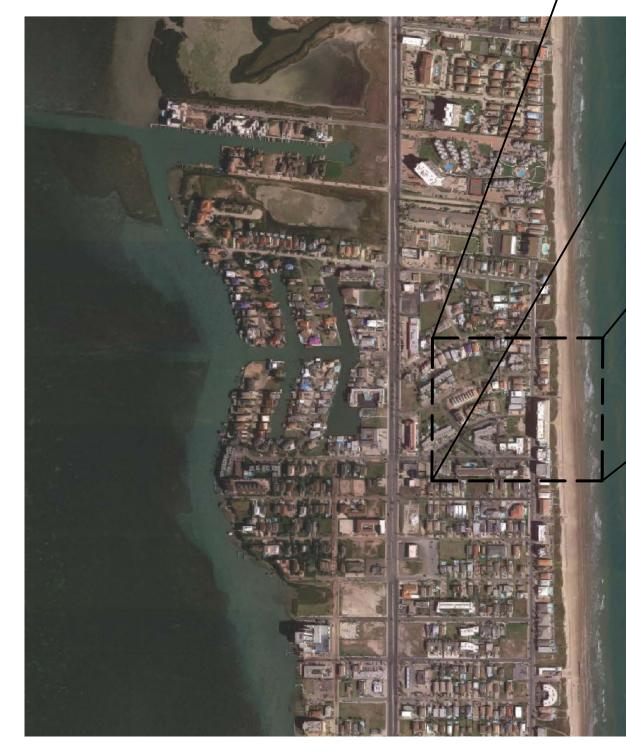
City of South Padre Island 4601 Padre Blvd

South Padre Island, Texas

C1.2 GENERAL NOTES AND LEGEND C1.3 EXISTING CONDITIONS C1.4 DEMOLITION PLAN C1.5 PROPOSED SITE PLAN C1.6 PROPOSED GRADING PLAN C1.7 PROPOSED UTILITY PLAN C1.8 SITE CUT AND FILL PLAN C1.9 MINIMUM SUGGESTED EROSION CONTROL C1.10 MISCELLANEOUS DETAILS (1 OF 2) C1.11 MISCELLANEOUS DETAILS (2 OF 2)

L3.01 LANDSCAPE SCHEDULES AND DETAILS L3.02 HARDSCAPE SCHEDULES AND DETAILS







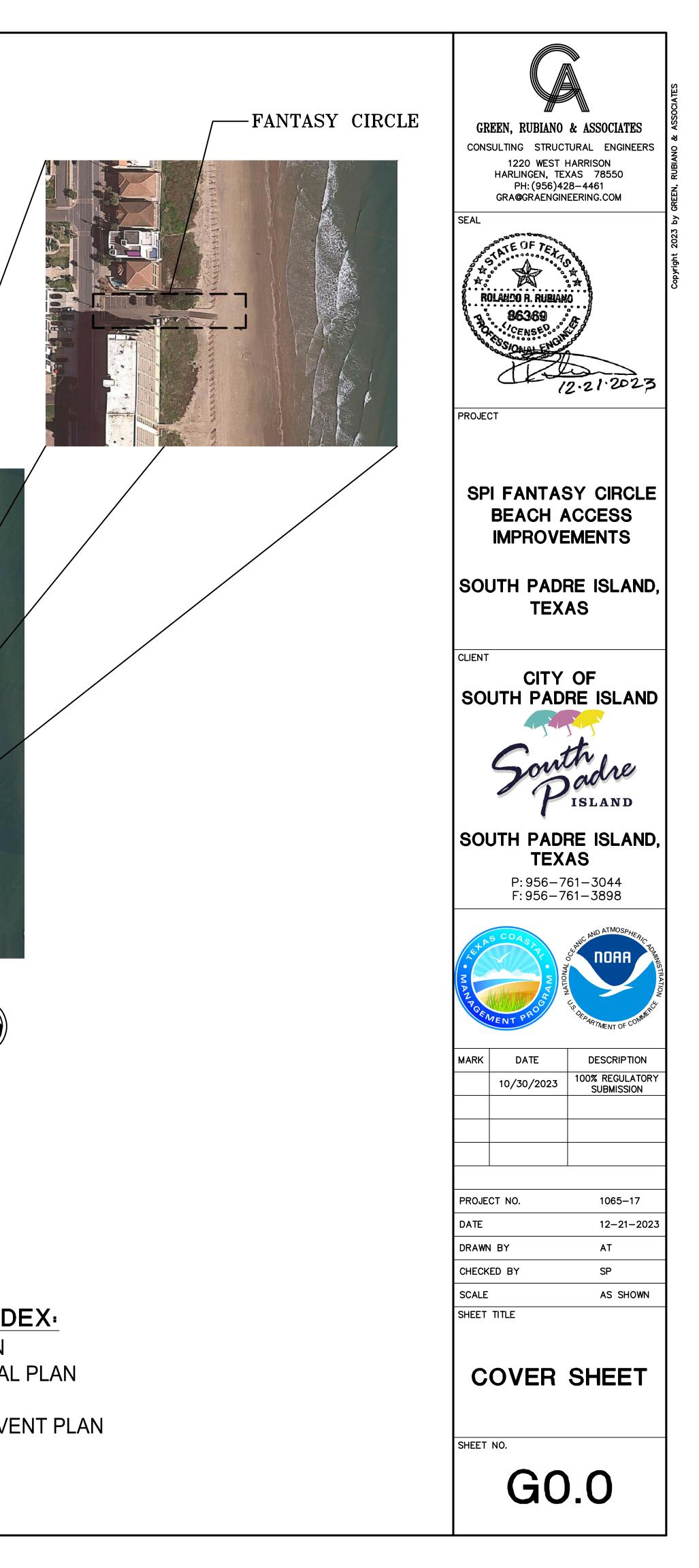


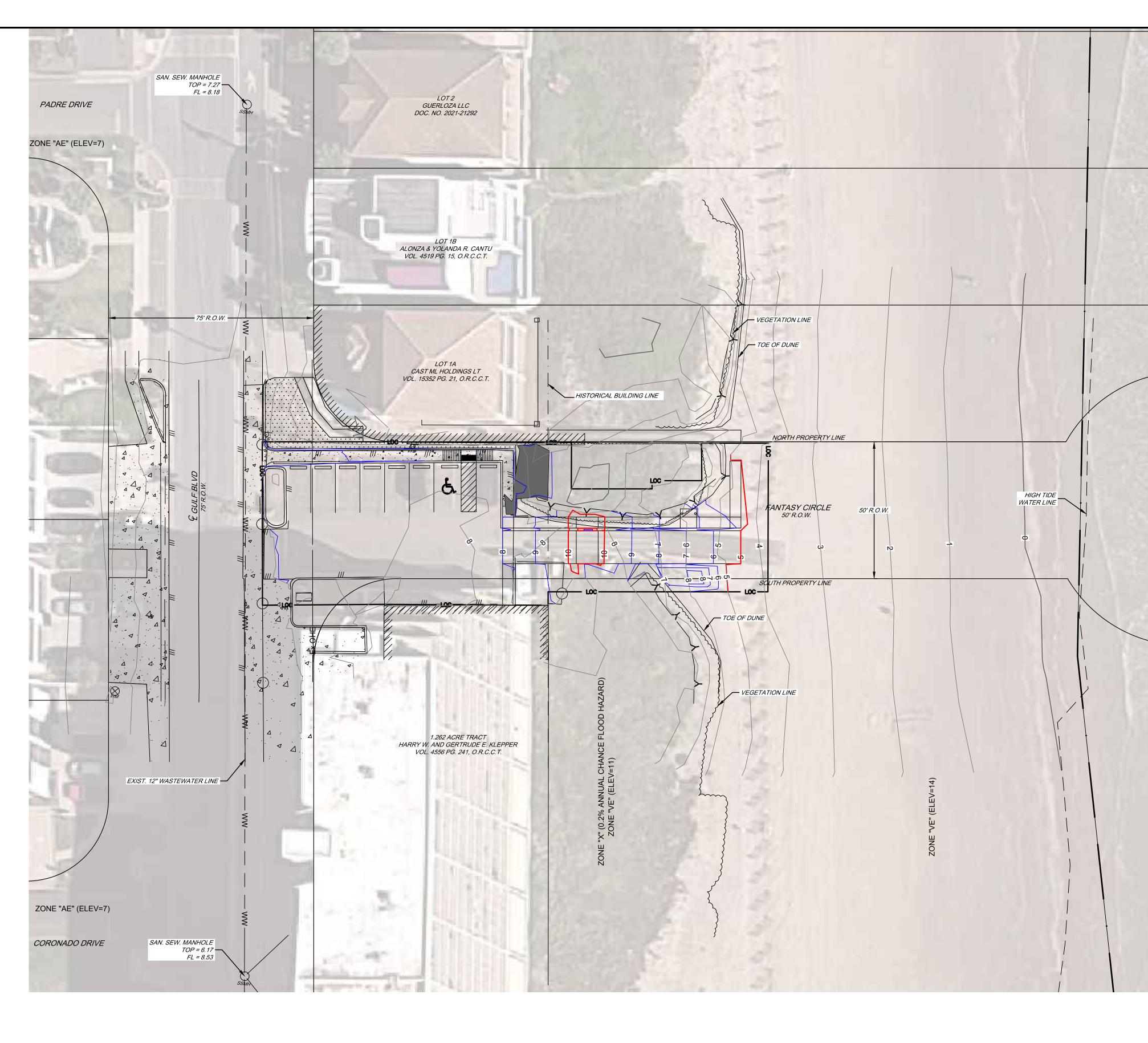
ELECTRICAL PLUMBING ENGINEER: ETHOS ENGINEERING

1126 SOUTH COMMERCE ST, HARLINGEN, TEXAS 78550 P: 956-230-3435

ELECTRICAL PLUMBING SHEET INDEX:

- EP1.01 ELECTRICAL AND PLMBING SITE PLAN
- E2.01 RESTROOM LIGHTING AND ELECTRICAL PLAN
- E2.02 ELECTRICAL SCHEDULES
- P2.01 RESTROOM PLUMBING, WASTE, AND VENT PLAN
- P3.01 PLUMBING SCHEDULE AND DETAILS
- P3.02 PLUMBING FIXTURE IMAGES

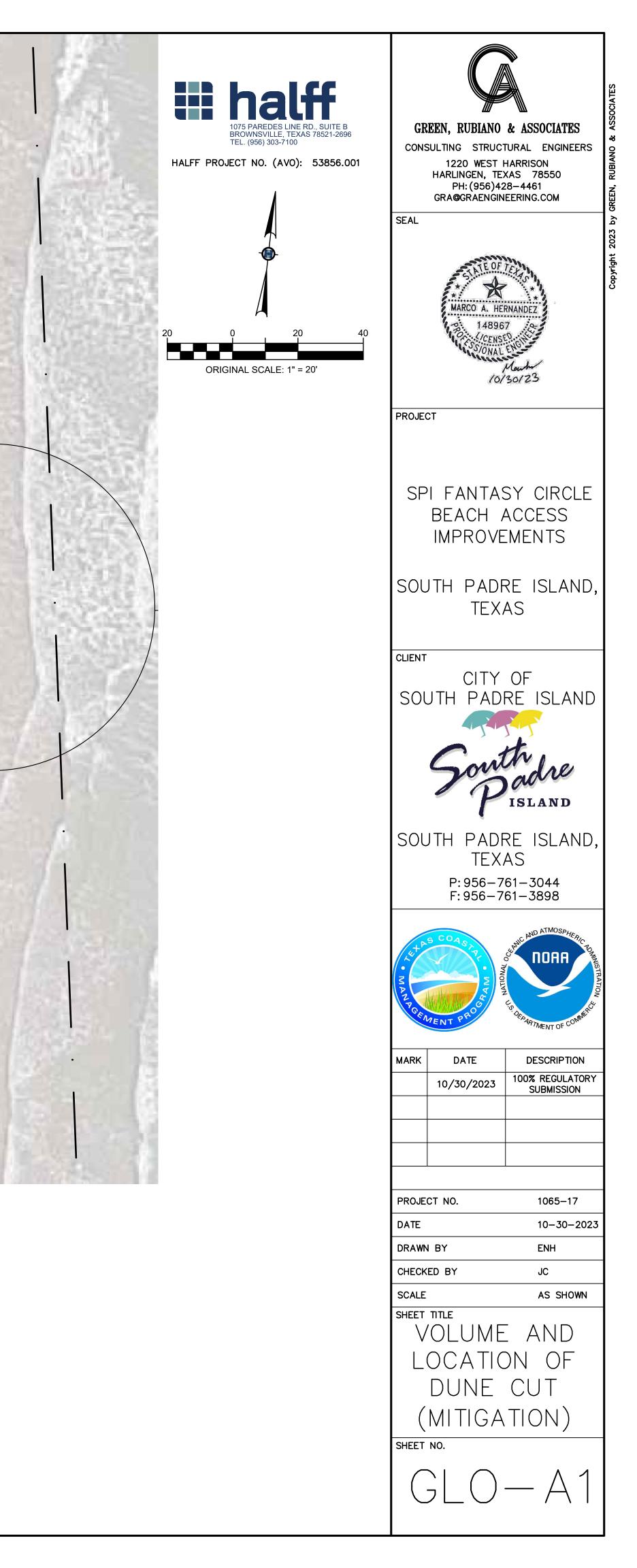


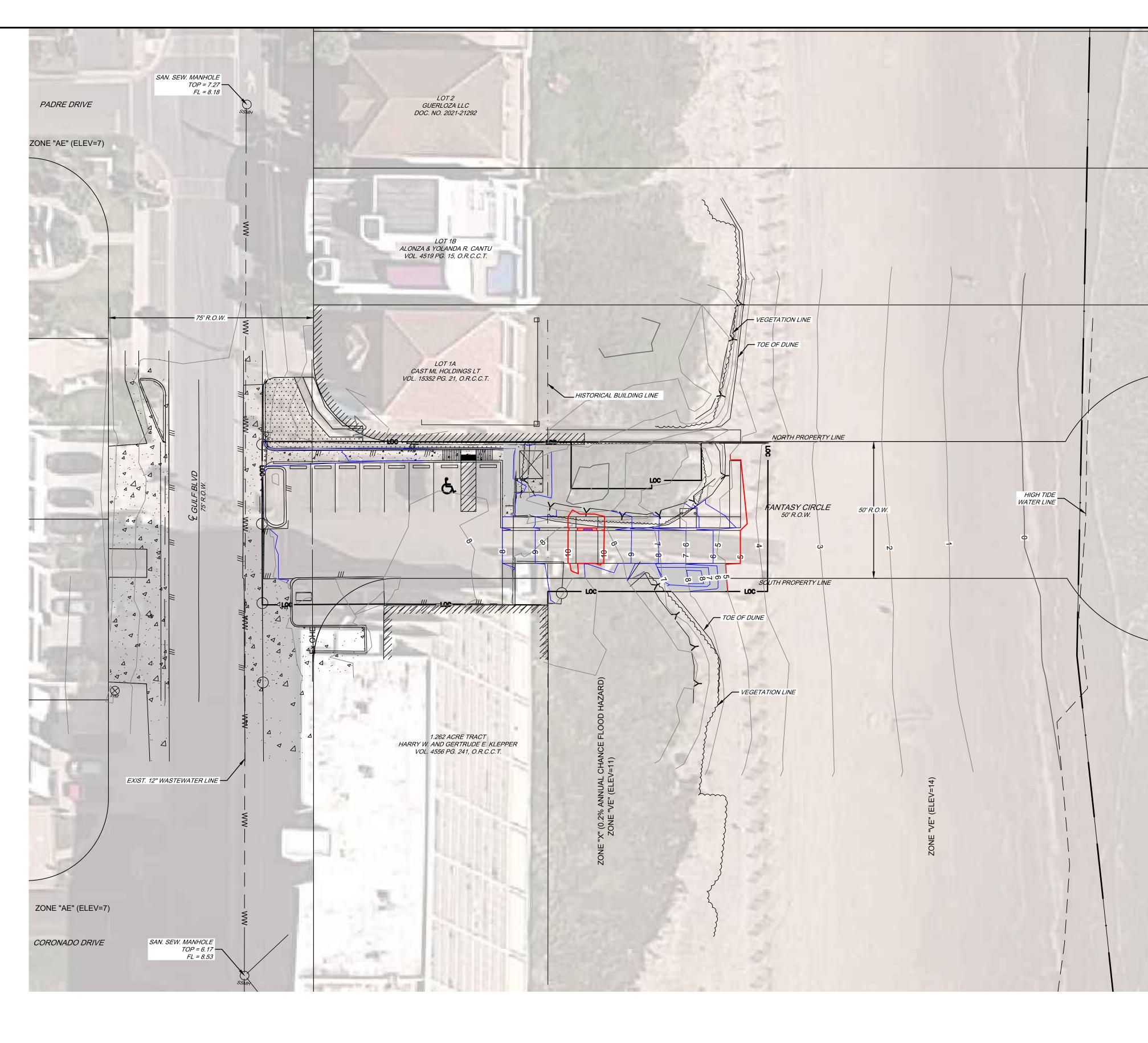


SHEET SPECIFIC LEGEND SEE SHEET C1.2 FOR GENERAL LEGEND

PROPOSED MAJOR CONTOURS (5' INCREMENTS) PROPOSED MAJOR CONTOURS (1' INCREMENTS) LIMITS OF CONSTRUCTION

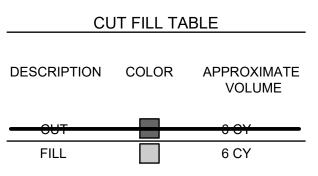
CUT FILL TABLE		
DESCRIPTION	COLOR	APPROXIMATE VOLUME
CUT		6 CY
		6 6Y

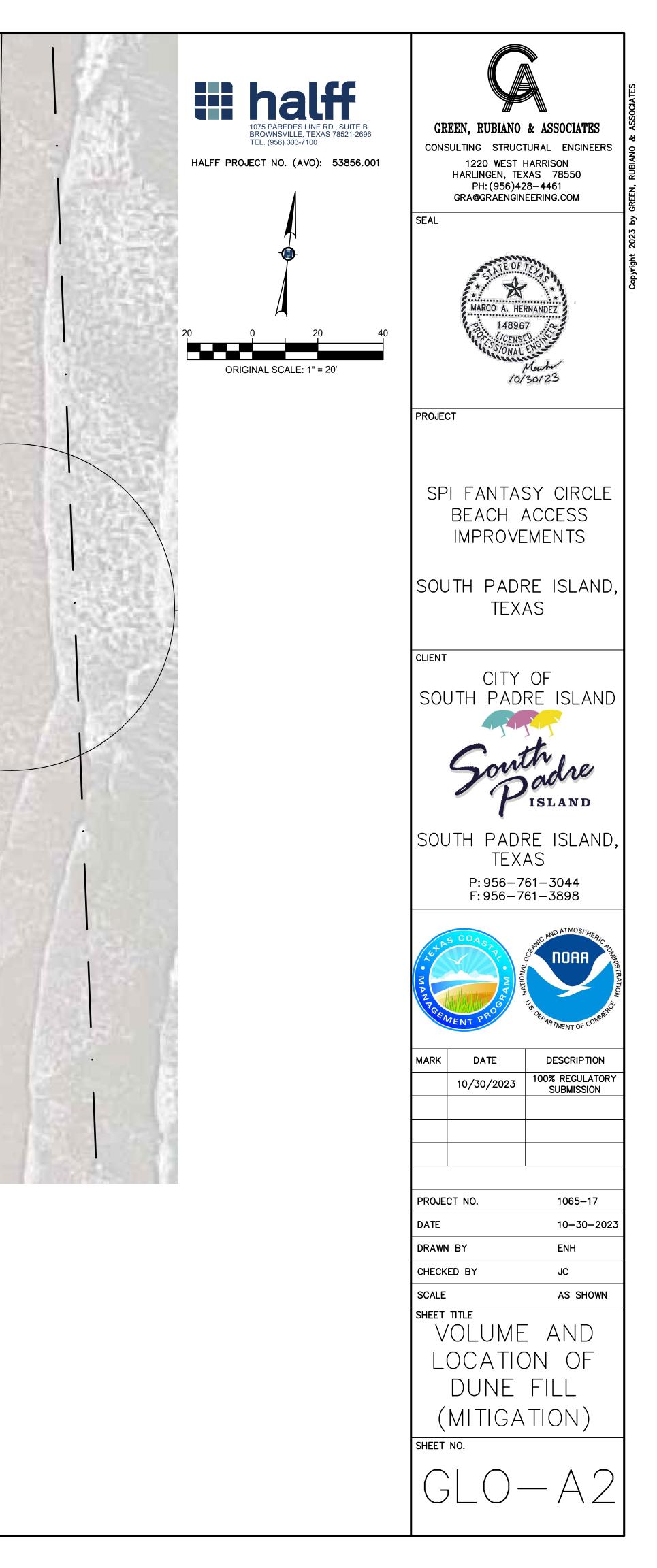


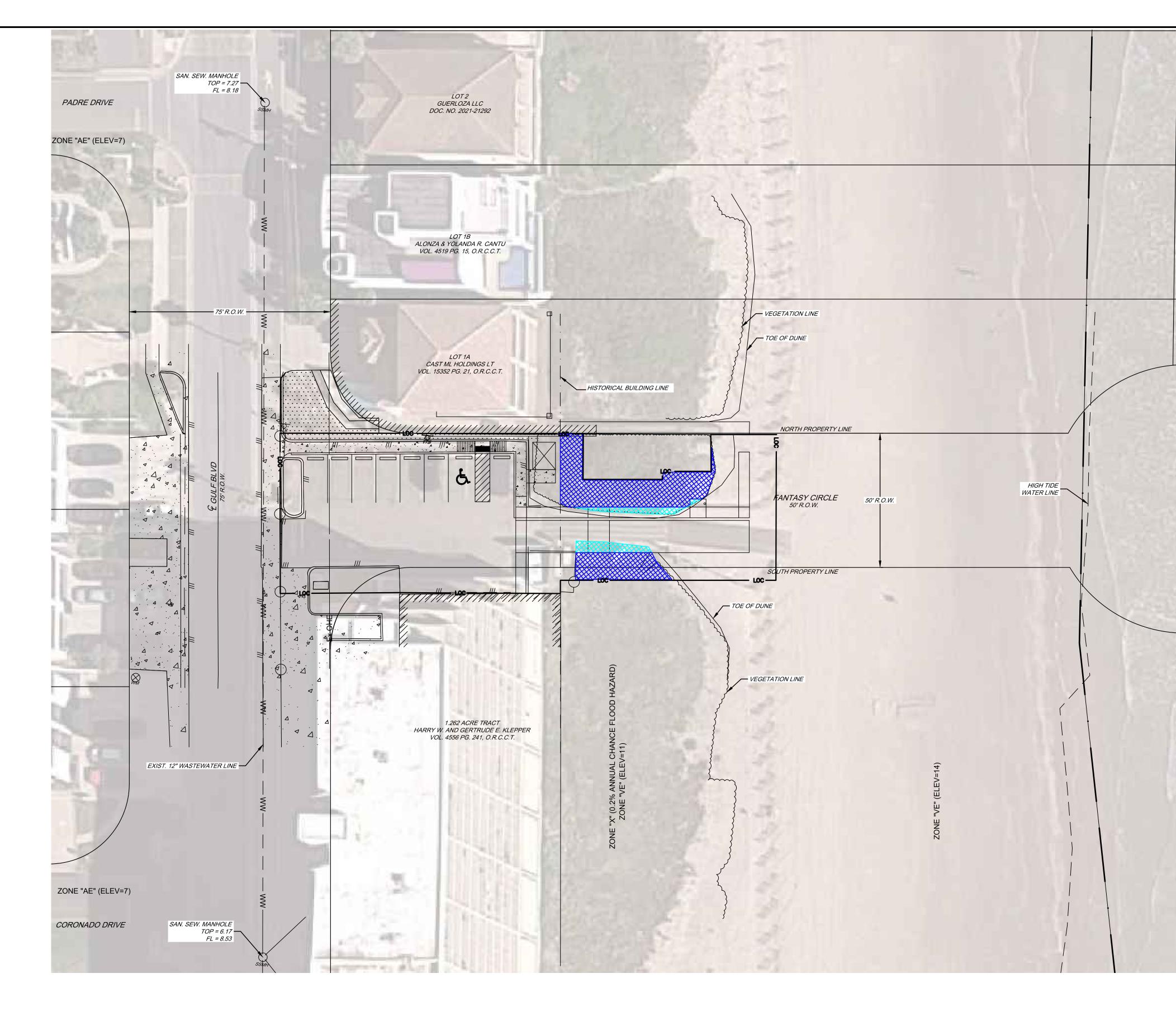


SHEET SPECIFIC LEGEND SEE SHEET C1.2 FOR GENERAL LEGEND

PROPOSED MAJOR CONTOURS (5' INCREMENTS) PROPOSED MAJOR CONTOURS (1' INCREMENTS) LIMITS OF CONSTRUCTION



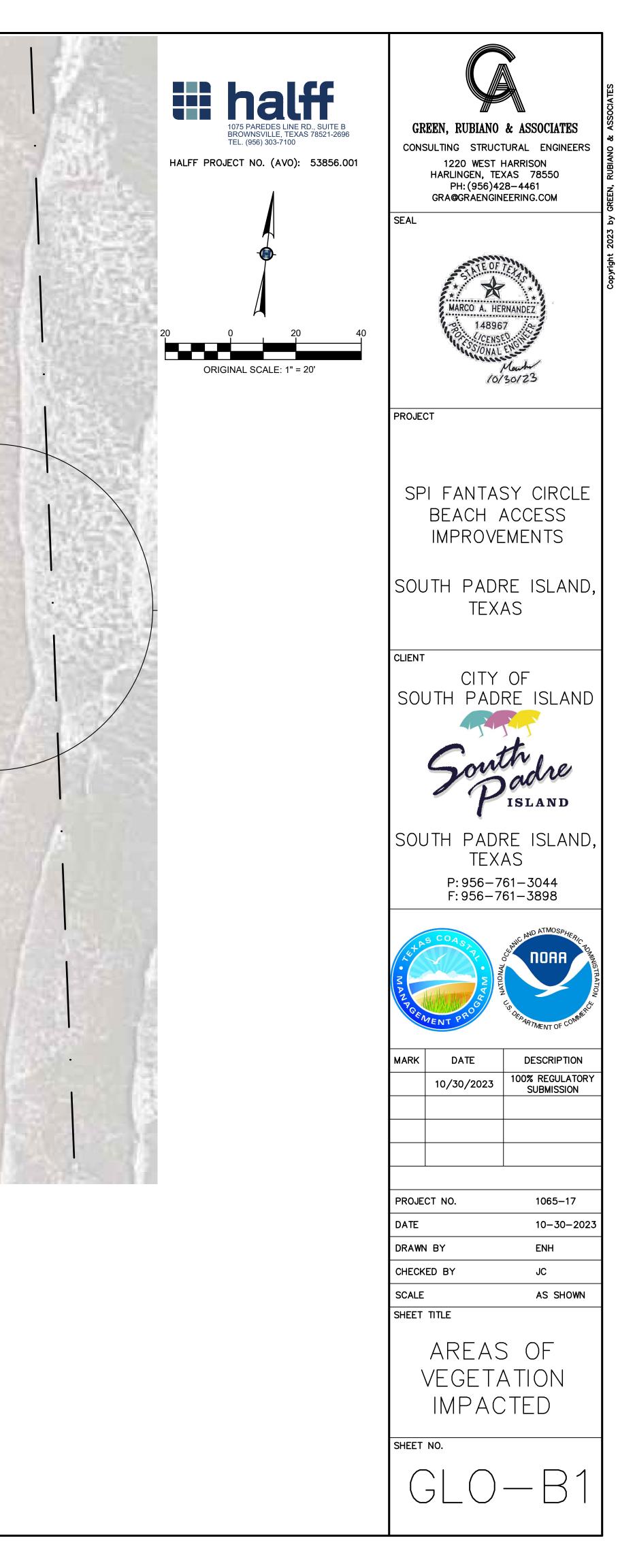


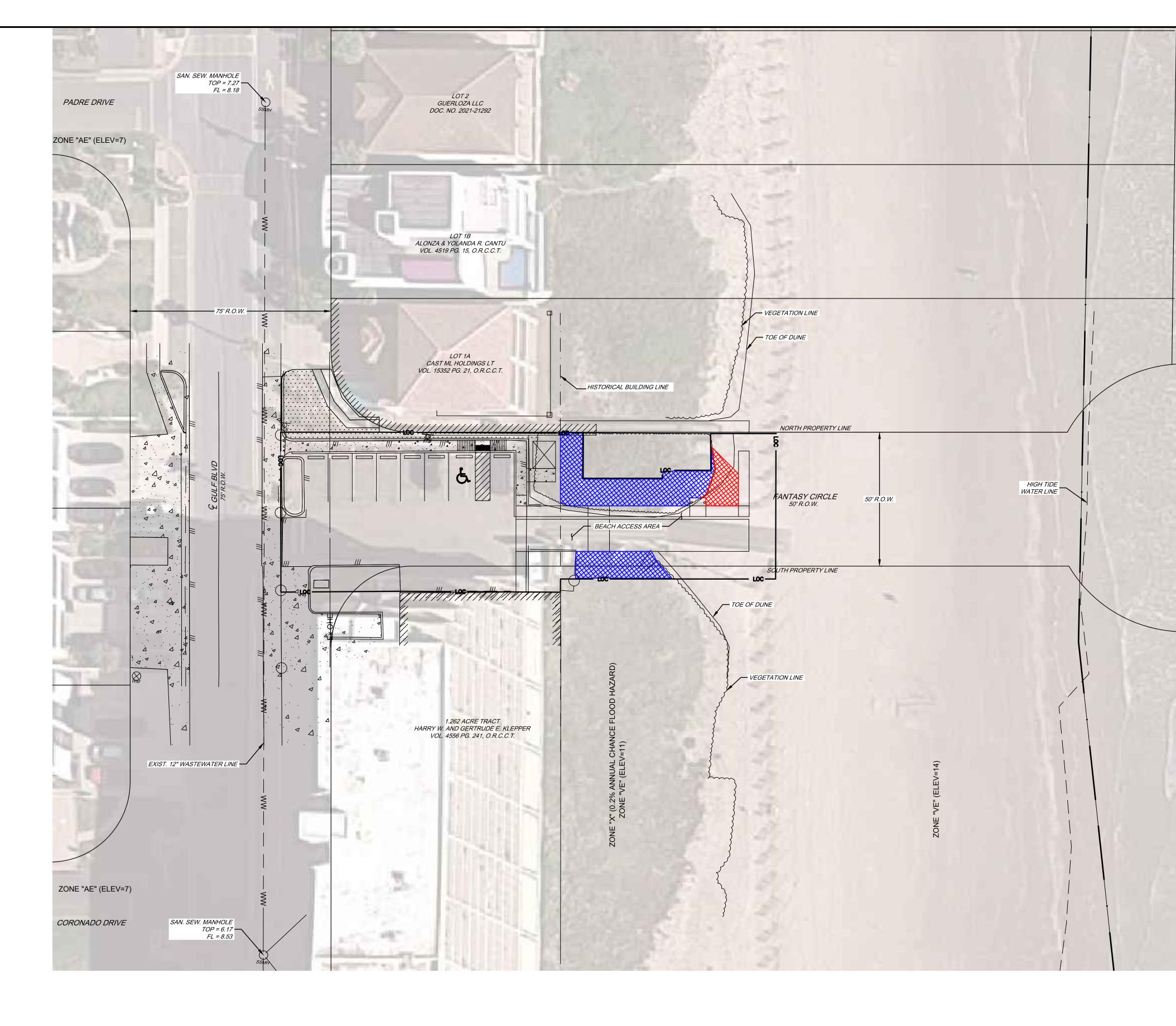


SHEET SPECIFIC LEGEND THE QUANTITIES PROVIDED BELOW ARE APPROXIMATE



EXISTING VEGETATION AREA - TEMPORARILY IMPACTED = 1,048 SQUARE FEET **TOTAL = 1,227 SQUARE FEET** EXISTING VEGETATION AREA - PERMANENTLY IMPACTED = 179 SQUARE FEET LIMITS OF CONSTRUCTION

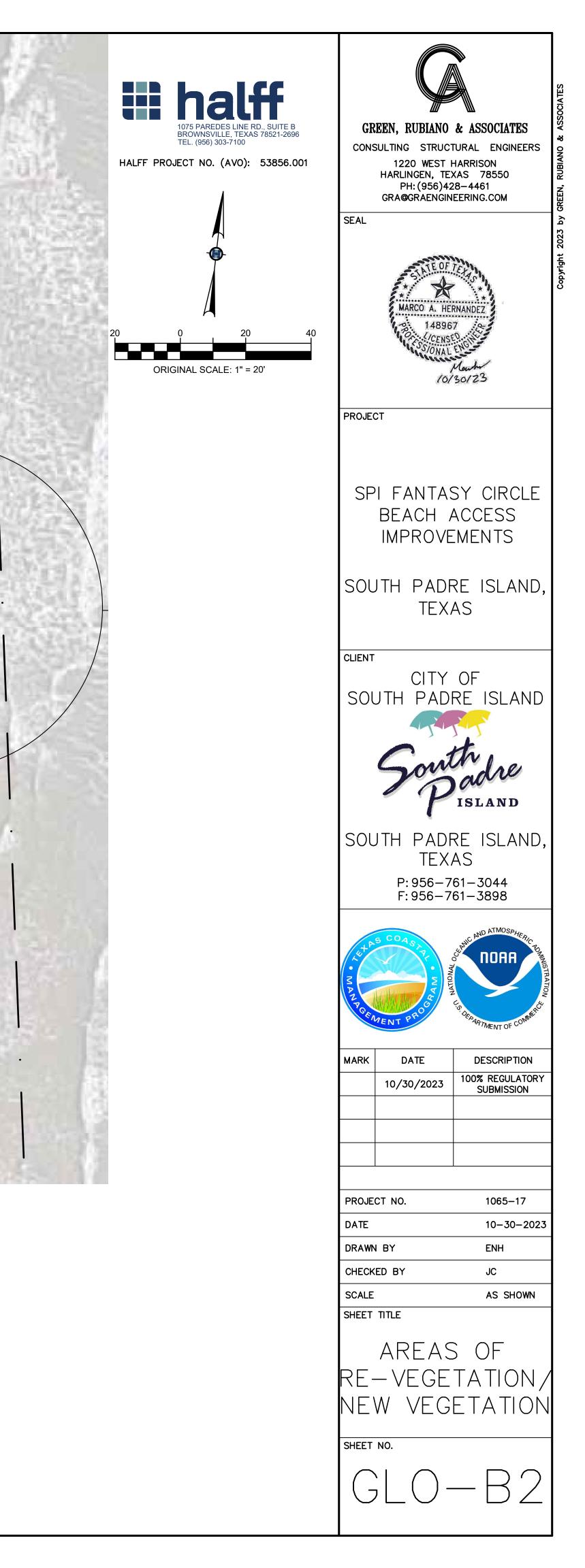


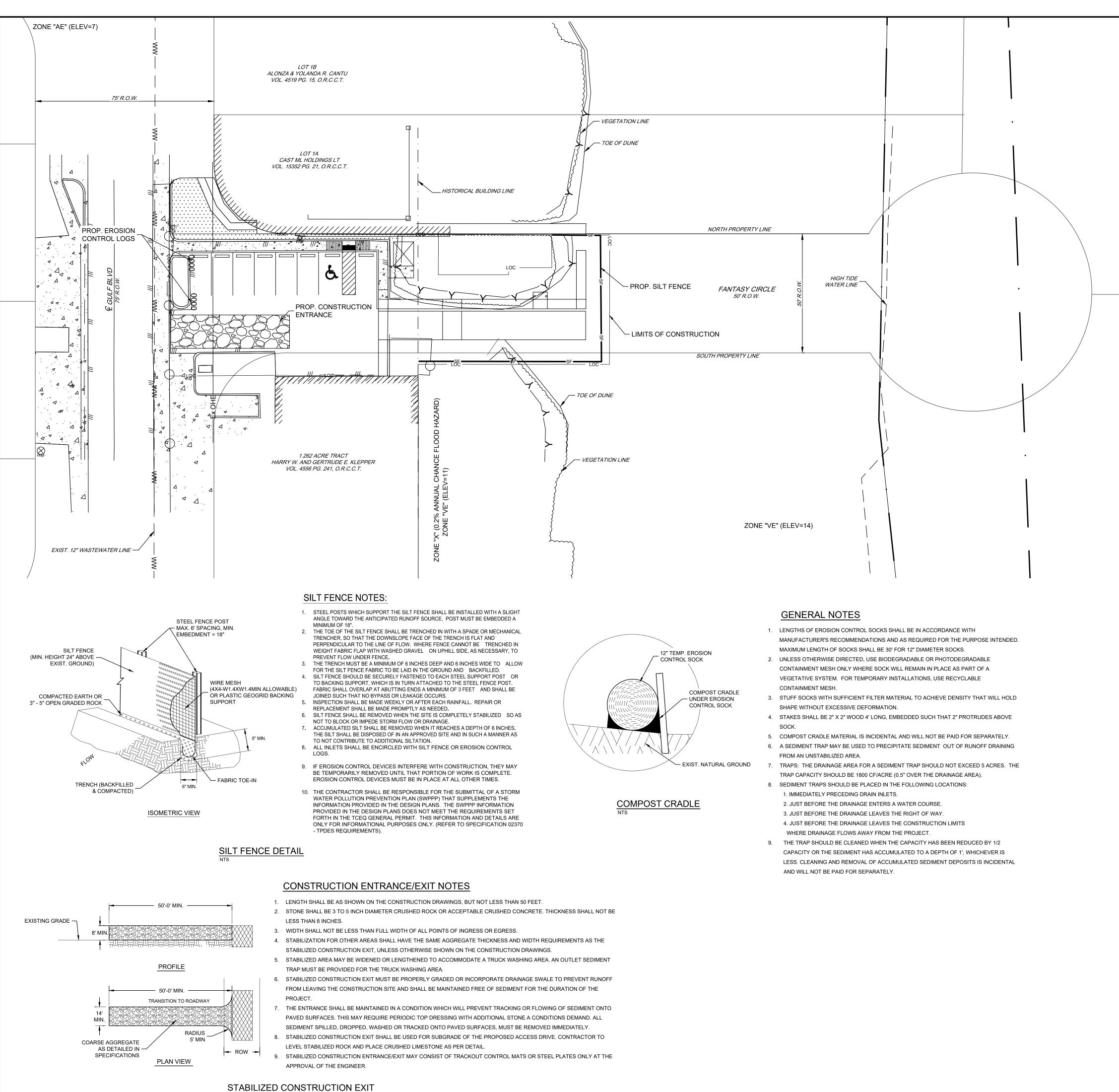


SHEET SPECIFIC LEGEND THE QUANTITIES PROVIDED BELOW ARE APPROXIMATE



EXISTING VEGETATION AREA - TEMPORARILY IMPACTED = 1,048 SQUARE FEET **TOTAL = 1,227 SQUARE FEET** EXISTING NON-VEGETATION AREA - TO BE VEGETATED = 179 SQUARE FEET LIMITS OF CONSTRUCTION







HALFF PROJECT NO. (AVO): 53856.001

STORM WATER POLLUTION PREVENTION PLAN INFORMATION

NATURE OF CONSTRUCTION ACTIVITY

* BEACH ACCESS IMPROVEMENTS

- SEQUENCE OF MAJOR ACTIVITIES
- * REMOVE AND REPLACE SECTIONS OF CURB AND GUTTER * SCARIFY AND MIX EXISTING STREET ASPHALT AND FLEXIBLE
- BASE MATERIAL.
- * INSTALL EROSION CONTROL DEVICES
- * INSTALL CONCRETE PAVEMENT DESIGN * UTILITY TRENCHING
- * FINAL GRADING AND CLEANUP

AREA OF SITE

- * TOTAL AREA OF DISTURBANCE: 0.22 ACRES
- ESTIMATED RUNOFF COEFFICIENT
- * PRE-CONSTRUCTION C "0.55 (5 YEAR EVENT) RESIDENTIAL LAND USE * POST-CONSTRUCTION C "0.55 (5 YEAR EVENT) RESIDENTIAL LAND USE
- SOIL DESCRIPTION:
- * COASTAL BEACH, 1 TO 3 PERCENT SLOPES * MUSTANG FINE SAND, SALINE, FREQUENTLY
- FLOODED, 0 TO 1 PERCENT SLOPES
- SITE PLAN SHOWS THE FOLLOWING:
- * GENERAL DRAINAGE PATTERNS (EXISTING AND PROPOSED)
- * AREAS OF SOIL DISTURBANCE
- * LOCATIONS OF MAJOR STRUCTURAL / NON-STRUCTURAL CONTROLS * LOCATIONS WHERE STABILIZATION PRACTICES ARE TO OCCUR
- NAME OF RECEIVING WATERS
- LAGUNA MADRE
- BMP'S TO BE IMPLEMENTED
- * DURING CONSTRUCTION, SILT FENCING OR EROSION CONTROL LOGS SHALL BE ERECTED AND MAINTAINED WHERE SHOWN TO MINIMIZE ESCAPE OF SEDIMENT INTO STORM SEWER SYSTEM.

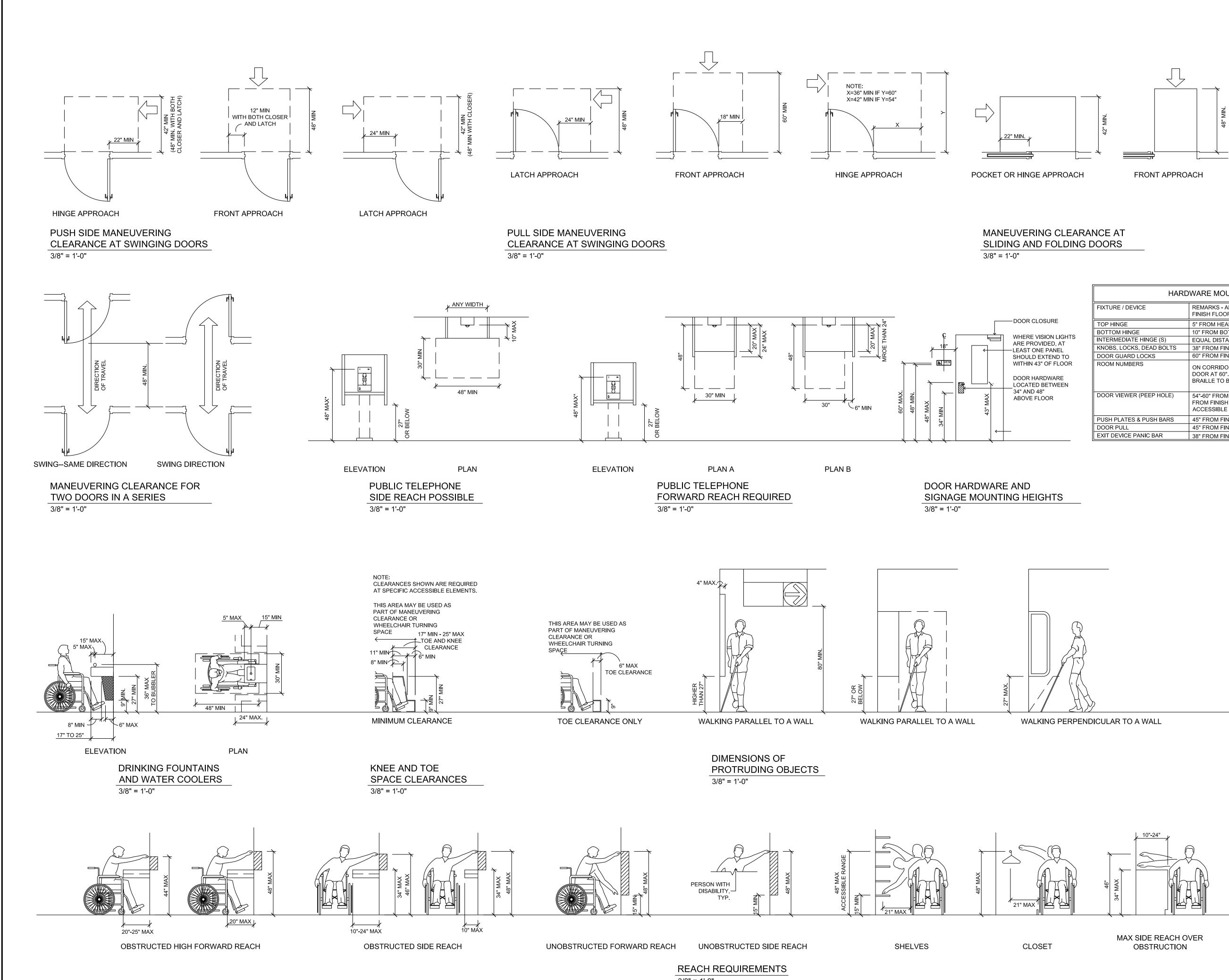
NOTES:

1. THIS IS NOT A STORM WATER POLLUTION PREVENTION PLAN. CONTRACTOR MUST PROVIDE HIS OPERATION'S SPECIFIC INFORMATION AS PER THE TCEQ PERMIT AND THE SPECIFICATIONS. INCLUDE ALL DOCUMENTATION AND CERTIFICATIONS AS PER THE TCEQ PERMIT

2. STABILIZED CONSTRUCTION ENTRANCE/EXIT LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR.



SHEET NO.

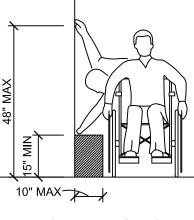


3/8" = 1'-0"

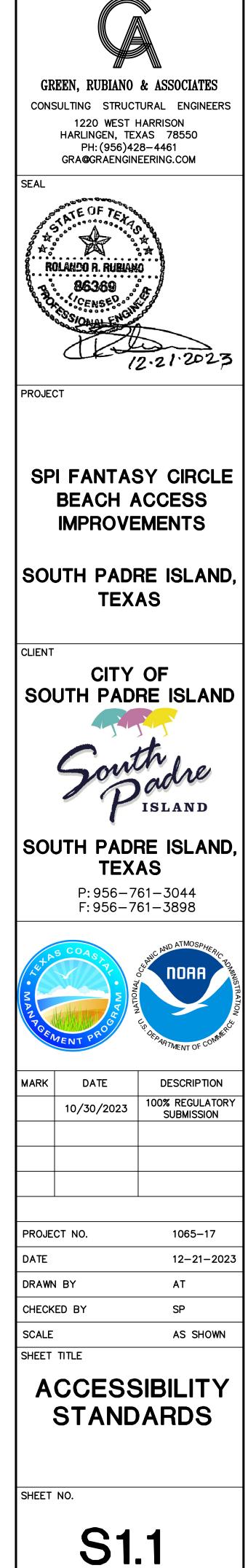
24" MIN.

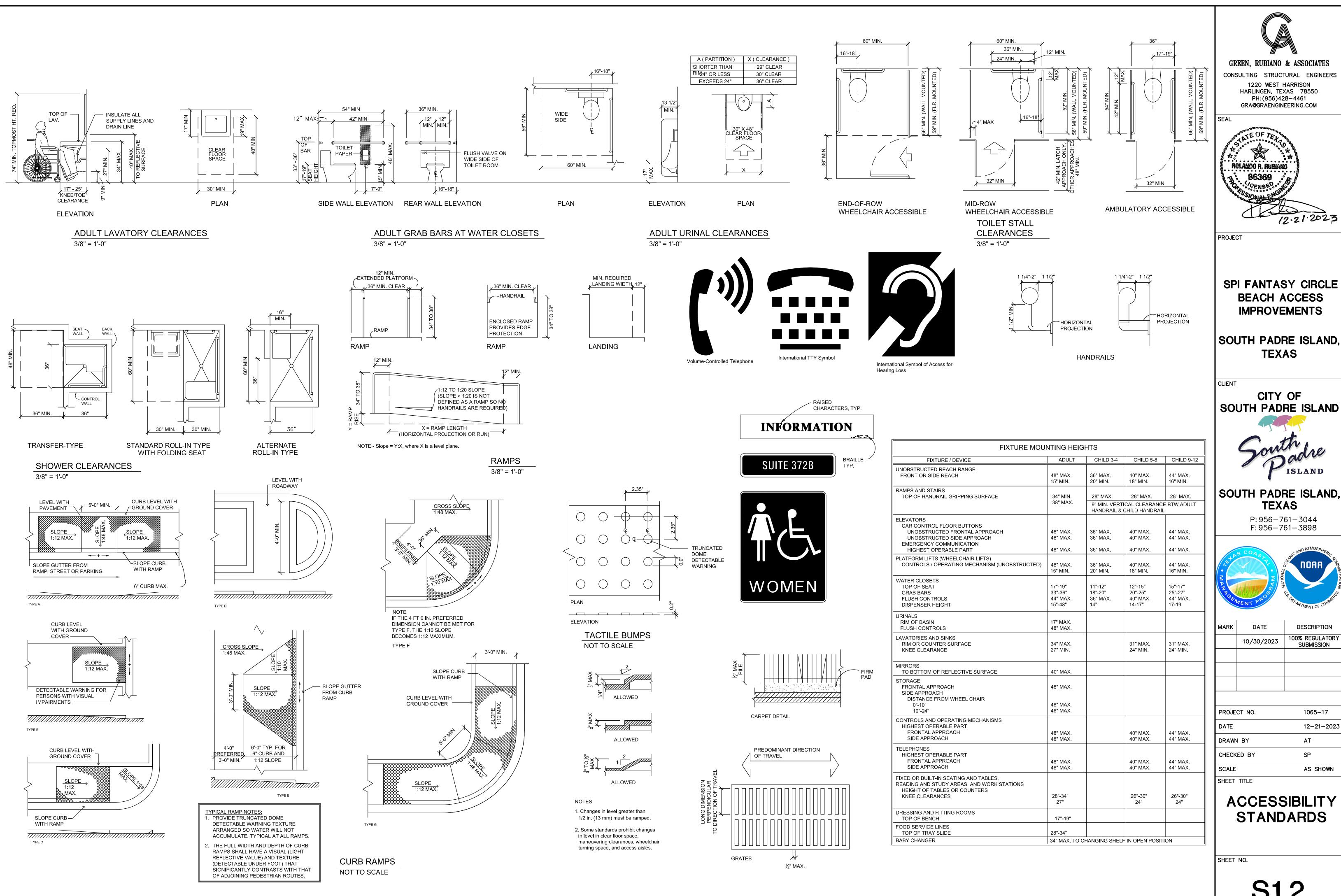
STOP OR LATCH APPROACH

HAR	DWARE MOUNTING HEIGHTS
FIXTURE / DEVICE	REMARKS - ALL HEIGHTS ARE MEASURED ABOVE FINISH FLOOR, UNLESS NOTED
TOP HINGE	5" FROM HEAD TO TOP OF HINGE LEAF
BOTTOM HINGE	10" FROM BOTTOM OF HINGE TO FINISH FLOOR
INTERMEDIATE HINGE (S)	EQUAL DISTANCE BETWEEN TOP AND BOTTOM HINGE
KNOBS, LOCKS, DEAD BOLTS	38" FROM FINISHED FLOOR TO CENTER OF KNOB
DOOR GUARD LOCKS	60" FROM FINISHED FLOOR, 48" IN ACCESSIBLE ROOMS
ROOM NUMBERS	ON CORRIDOR WALL ADJACENT TO STRIKE SIDE OF DOOR AT 60". RAISED LETTERS AND GRADE 2 BRAILLE TO BE PROVIDED PER ADA REQUIREMENTS
DOOR VIEWER (PEEP HOLE)	54"-60" FROM FINISH FLOOR TO CENTERLINE. 46" FROM FINISH FLOOR TO CENTERLINE IN ACCESSIBLE ROOMS
PUSH PLATES & PUSH BARS	45" FROM FINISH FLOOR TO CENTERLINE
DOOR PULL	45" FROM FINISH FLOOR TO CENTERLINE
EXIT DEVICE PANIC BAR	38" FROM FINISH FLOOR TO CENTERLINE OF PANIC BAF



HIGH AND LOW SIDE REACH LIMITS





S1.2





GENERAL NOTES

SCOPE OF PROJECT

SCOPE OF WORK IS DEFINED BY THE DRAWINGS AND SPECIFICATIONS, INCLUDES ALL SUPERVISION, LABOR, MATERIALS, EQUIPMENT, PERMITTING AND FEES TO ACCOMPLISH THE WORK. THE SCOPE INCLUDES, BUT IS NOT LIMITED TO:

1. INSTALLATION OF NEW BEACH VEHICLE DRIVE OVER CONCRETE STRUCTURE AND WOOD WALKOVER STRUCTURE AT WHITE SANDS STREET. AND ASSOCIATED IMPROVEMENTS.

CODE COMPLIANCE

1. ALL WORK PREFORMED SHALL BE COMPLETED IN ACCORDANCE WITH ALL STATE, FEDERAL, AND LOCAL CODES, ORDINANCES, AND LAWS, INCLUDING THE INTERNATIONAL BUILDING CODE 2012 EDITION.

2. ALL DEMOLITION MATERIAL SHALL BE PROPERLY DISPOSED OF IN A LANDFILL MEETING ALL FEDERAL, STATE, AND LOCAL REGULATORY REQUIREMENTS. CONTRACTOR SHALL PROVIDE PROPER DOCUMENTATION FROM LANDFILL INDICATING PROPER DISPOSAL OF DEMOLITION MATERIAL.

COORDINATION

1. THE CONTRACTOR SHALL COORDINATE WORK BETWEEN ALL TRADES. ANY CONFLICTS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO THE WORK BEING INSTALLED. FAILURE TO DO SO WILL MAKE THE CONTRACTOR RESPONSIBLE FOR THE COST OF THE WORK.

EXISTING CONDITIONS

- 1. THE CONTRACTOR SHALL VISIT THE SITE OF THE PROPOSED WORK AND FULLY ACQUAINT THEMSELVES WITH THE EXISTING CONDITIONS.
- 2. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS. DIMENSIONS SHOWN ON THE PLANS ARE APPROXIMATE. CONTRACTOR SHALL OBTAIN ALL FIELD MEASUREMENTS AS NECESSARY TO COORDINATE NEW CONSTRUCTION TO EXISTING CONDITIONS.
- 3. IF EXISTING CONDITIONS DIFFER FROM THE DRAWINGS. INFORM THE ENGINEER AND ADDITIONAL DETAILS OR INTERPRETATION WILL BE PROVIDED. DO NOT PROCEED WITHOUT VERIFICATION.
- 4. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UNDERGROUND UTILITIES, INCLUDING STORM SEWER SYSTEM LINES, WASTE WATER LINES, IRRIGATION LINES, ETC., PRIOR TO MOBILIZATION AND COMMENCEMENT OF WORK. CONTACT ALL CITY OF SOUTH PADRE ISLAND MUNICIPALITIES AS REQUIRED TO LOCATE UNDERGROUND UTILITIES. ANY COSTS TO REPAIR DAMAGES IF UTILITIES ARE NOT PROPERLY IDENTIFIED, ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

TEMPORARY BRACING, FALSEWORK AND FORMWORK

- 1. THE DESIGN, ENGINEERING, FABRICATION, CONSTRUCTION, ERECTION, REMOVAL AND OVERALL SAFETY OF ALL TEMPORARY SUPPORTS SUCH AS FALSEWORK, FORMWORK, SHORES AND BRACING REQUIRED FOR THE EXECUTION OF THE CONTRACT ARE NOT INCLUDED IN THE DRAWINGS AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 2. THE ENGINEER'S EFFORTS ARE AIMED AT DESIGNING A PROJECT WHICH WILL BE SAFE AFTER FULL COMPLETION. THE ENGINEER HAS NO EXPERTISE IN, AND TAKES NO RESPONSIBILITY FOR, CONSTRUCTION MEANS AND METHODS OR JOB SITE SAFETY DURING CONSTRUCTION. SAFETY IS EXCLUSIVELY THE CONTRACTOR'S RESPONSIBILITY. PROCESSING AND/OR APPROVING SUBMITTALS MADE BY CONTRACTOR WHICH MAY CONTAIN INFORMATION RELATED TO SHORING, CONSTRUCTION METHODS OR SAFETY ISSUES, OR PARTICIPATION IN MEETINGS WHERE SUCH ISSUES MIGHT BE DISCUSSED, MUST NOT BE CONSTRUED AS VOLUNTARY ASSUMPTION BY ENGINEER OF ANY RESPONSIBILITY FOR THESE SAFETY PROCEDURES.

DOCUMENTATION OF PRE-1. THE CONTRACTOR SHALL PHOTOGRAPH AND/OR VIDEO DOCUMENT AND TAKE WRITTEN NOTES OF EXISTING CONDITIONS PRIOR TO THE COMMENCEMENT OF THE WORK ON THE SITE. COPIES OF ALL DOCUMENTATION TO BE PRESENTED TO THE OWNER PRIOR TO

COMMENCING WORK.

1. CONTRACTOR SHALL TAKE THE PROPER PRECAUTIONS NOT TO DAMAGE ADJACENT BUILDINGS DURING DEMOLITION.

PROJECT.

<u>SAFETY</u>

- SIGNS, ETC.
- PROPERTY IN GOOD CONDITION AS IT WAS PRIOR TO COMMENCEMENT OF WORK.
- INJURY TO RESIDENTS, VISITORS OR PUBLIC.
- SAFETY OF JOBSITE.

- REF. SHEET S1.5 FOR SITE IMPROVEMENT PLAN AT FANTASY CIRCLE BEACH ACCESS

-CONSTRUCTION	PHOTOGRAPHS

PROTECTION OF EXISTING ADJACENT BUILDINGS

2. THE CONTRACTOR SHALL TAKE PROPER PRECAUTION TO PROTECT ALL ADJACENT EXISTING TREES, LANDSCAPING, SITE LIGHTING, SIDEWALKS, AND SITE FEATURES FROM DAMAGE THROUGHOUT COURSE OF WORK. IF DAMAGED DURING THE COURSE OF THE WORK, REPAIR TO PRE-CONSTRUCTION CONDITION PRIOR TO COMPLETION OF THE

1. PERFORM ALL WORK IN A SAFE AND CONSCIENTIOUS MANNER TO PREVENT INJURIES.

2. CONTRACTOR SHALL MAINTAIN OSHA STANDARDS FOR JOB SAFETY AND WORKER PROTECTION, INCLUDING, BUT NOT LIMITED TO ADEQUATE PROTECTION, BARRICADES,

3. PEDESTRIAN PROTECTION REQUIREMENTS: PROVIDE CANOPY AND/OR BARRICADES AT SIDEWALKS AND OTHER PUBLICLY ACCESSIBLE AREAS WHICH MAY BE SUBJECT TO FALLING DEBRIS FROM THE WORK. COORDINATE ACCESS REQUIREMENTS WITH OWNER. BARRICADES AND CANOPY SHALL MEET OR EXCEED THE APPLICABLE REQUIREMENTS OF FEDERAL, STATE AND LOCAL LAWS, CODES, AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION. AS A MINIMUM, CANOPY SHALL COMPLY WITH SECTION 3306, "PROTECTION OF PEDESTRIANS" OF THE 2012 EDITION OF THE INTERNATIONAL BUILDING CODE (IBC). UPON COMPLETION OF REMOVAL OF CANOPY AND BARRICADES, LEAVE

4. ALL CONSTRUCTION MATERIALS SHALL BE LOCKED-UP OR PLACED INSIDE A LOCKED CONSTRUCTION FENCE TO ENSURE MATERIALS DO NOT BECOME WINDBORNE OR CAUSE

5. THE GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR SAFETY. THE OWNER AND ENGINEER EXPRESSLY EXLUDE ANY RESPONSIBILITY FOR CONTRACTOR SAFETY OR

TEMPORARY FACILITIES

1. COORDINATE LOCATION AND PLACEMENT OF FIELD OFFICE, MATERIAL STORAGE, PORTABLE TOILET, DUMPSTERS, ETC. WITH OWNER PRIOR TO CONSTRUCTION.

USE OF THE PREMISES

- 1. EQUIPMENT ACCESS TO BE SCHEDULED WITH OWNERS REPRESENTATIVE 48 HOURS IN ADVANCE.
- 2. TYPICAL HOURS OF WORK: 7:00 AM 7:00 PM MONDAY FRIDAY, 8:00 AM -7:00 PM - SATURDAY, 9:00 AM - 5:00 PM - SUNDAY, UNLESS OTHERARRANGEMENTS MADE WITH OWNER'S REPRESENTATIVE. PRIOR TO COMMENCING WORK. COORDINATE HOURS OF WORK WITH THE OWNER TO MINIMIZE IMPACT TO THE SITE'S DAY-TO-DAY OPERATIONS.
- 3. MAINTAIN PUBLIC ACCESS FOR THE DURATION OF THE PROJECT, OR AS REQUIRED BY OWNER.
- 4. AN ON-SITE STORAGE AREA IS TO BE ESTABLISHED DURING CONSTRUCTION. STORAGE IS TO BE PROTECTED IN A SECURE WEATHERPROOF LOCATION TO PREVENT DAMAGE TO THE CONTENTS.
- 5. PROVIDE REGULAR SITE CLEAN UP. STORE MATERIALS IN A NEAT AND ORDERLY MANNFR.
- 6. DO NOT PLACE LOADS ON THE EXISTING ADJACENT STRUCTURES OR STORE DEMOLISHED MATERIALS ON THE STRUCTURES IN A MANNER THAT WILL DAMAGE THEM.
- 7. WORKERS SHALL BE PROPERLY DRESSED AND DISPLAY APPROPRIATE BEHAVIOR AT ALL TIMES IN CONSTRUCTION AND ADJACENT AREAS.
- 8. REPAIR/RESTORE DAMAGED LAWN OR OTHER LANDSCAPING AT COMPLETION OF THE WORK AT NO COST TO OWNER.
- 9. REFERENCE "TOWN OF SOUTH PADRE ISLAND BUILDING CONSTRUCTION SITE MANAGEMENT NOTICE" FOR ADDITIONAL REQUIREMENTS.

SITE MAINTENANCE

1. MAINTAIN AREAS FREE OF WASTE MATERIALS, DEBRIS, AND RUBBISH.

2. MAINTAIN SITE IN A CLEAN AND ORDERLY CONDITION, AREAS USED AS PATHWAYS TO TRANSPORT MATERIALS OR TO REMOVE TRASH THAT ARE NOT DIRECTLY UNDER CONSTRUCTION ARE TO BE KEPT CLEAN.

FIRE PROTECTION

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIRE PROTECTION AND FIRE WATCH DURING ALL CONSTRUCTION OPERATIONS.

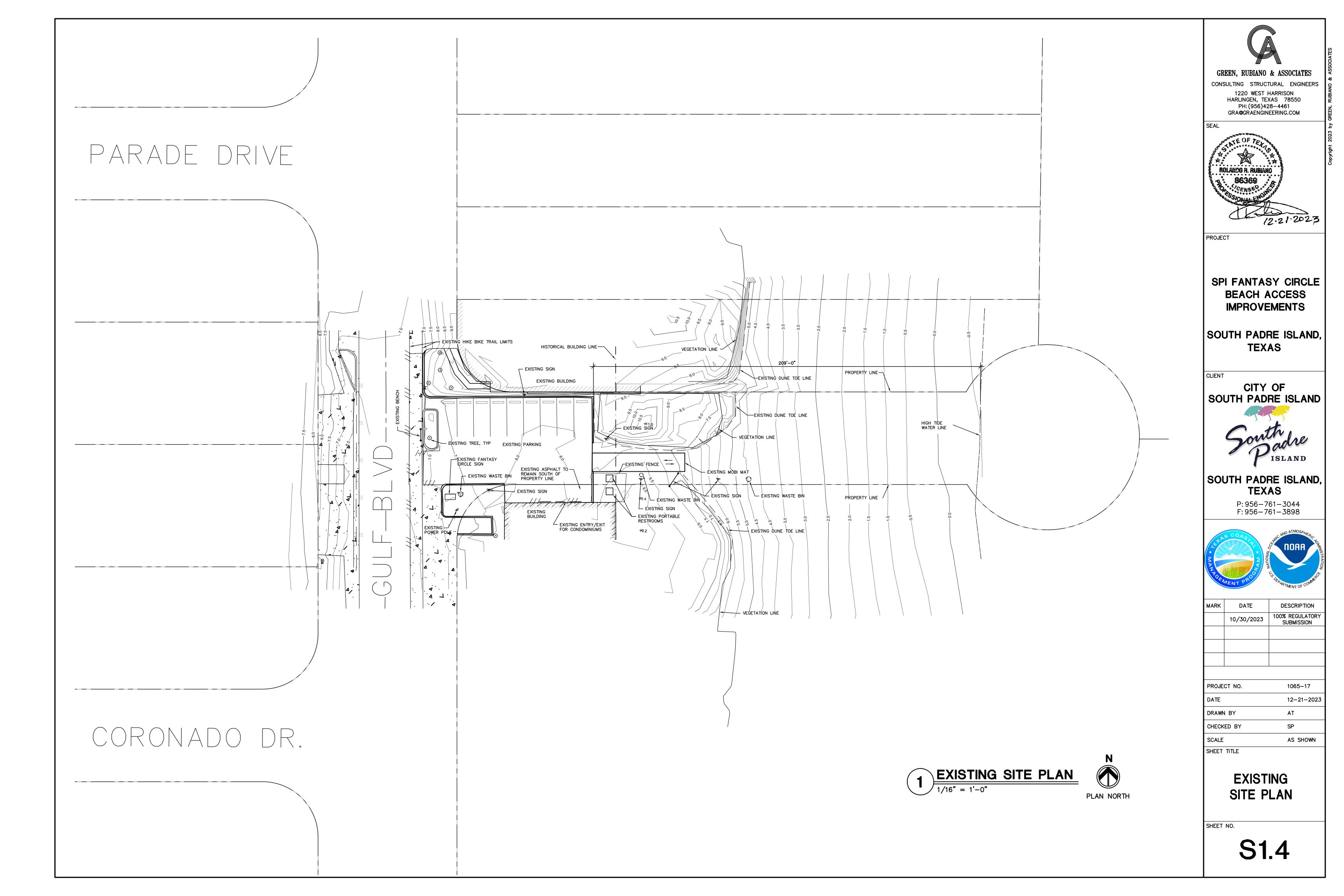
2. NO SMOKING SHALL BE PERMITTED AT THE SITE. CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY FIRE EXTINGUISHERS UNTIL SUBSTANTIAL COMPLETION.

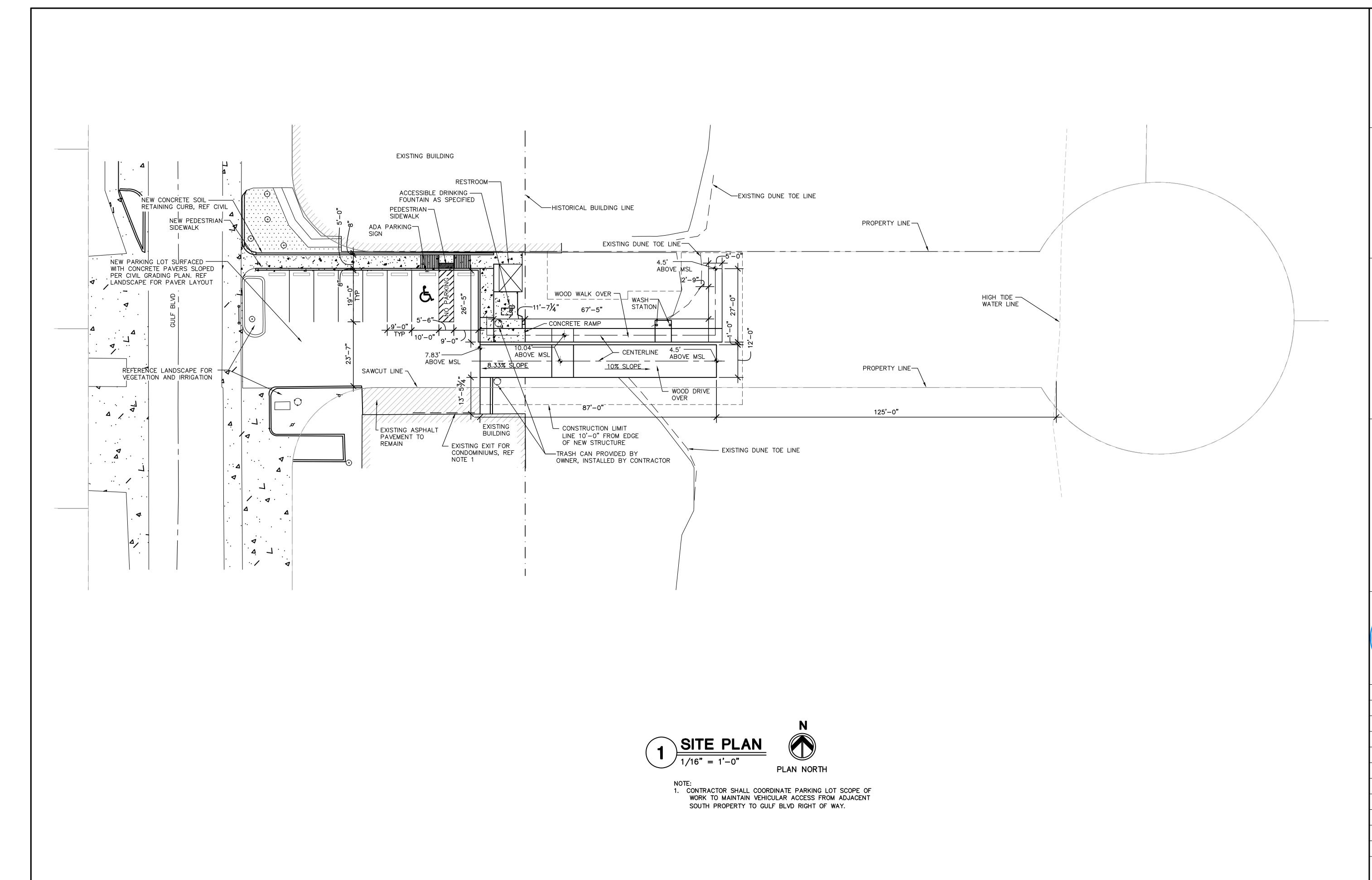
HAZARDOUS MATERIALS ABATEMENT/ MANAGEMENT

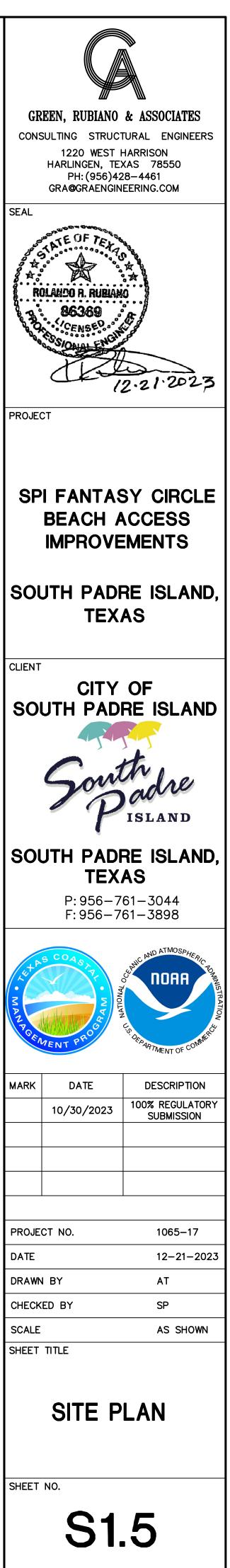
1. THE ENGINEER HAS NO RESPONSIBILITY OR LIABILITY FOR DESIGN, REMOVAL OF, OR TESTING FOR ASBESTOS/LEAD, OR FOR ABATEMENT /MANAGERIAL TREATMENTS, MONITORING, AND LEGAL DISPOSAL OF MATERIALS. CONTRACTOR SHALL DETERMINE IF ANY HAZARDOUS MATERIAL ABATEMENT/ MANAGEMENT IS REQUIRED AND SHALL INCLUDE COSTS THEREOF IN THE BID.

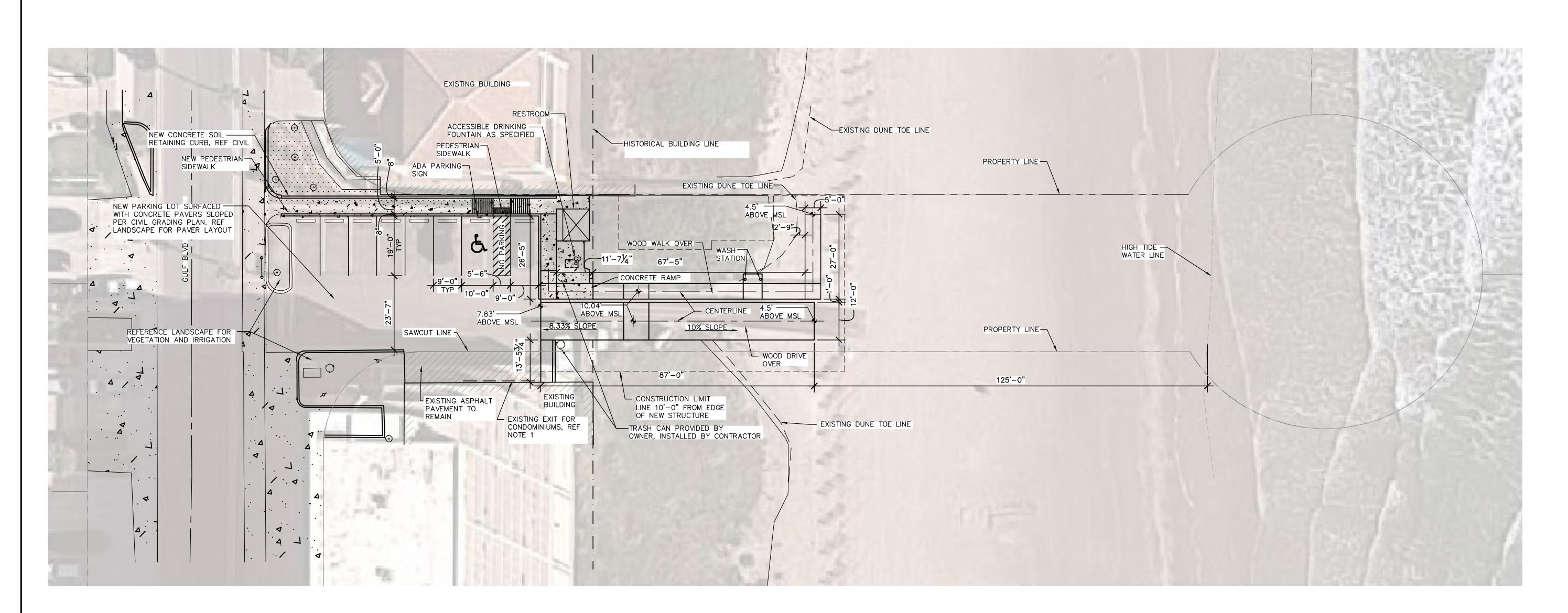


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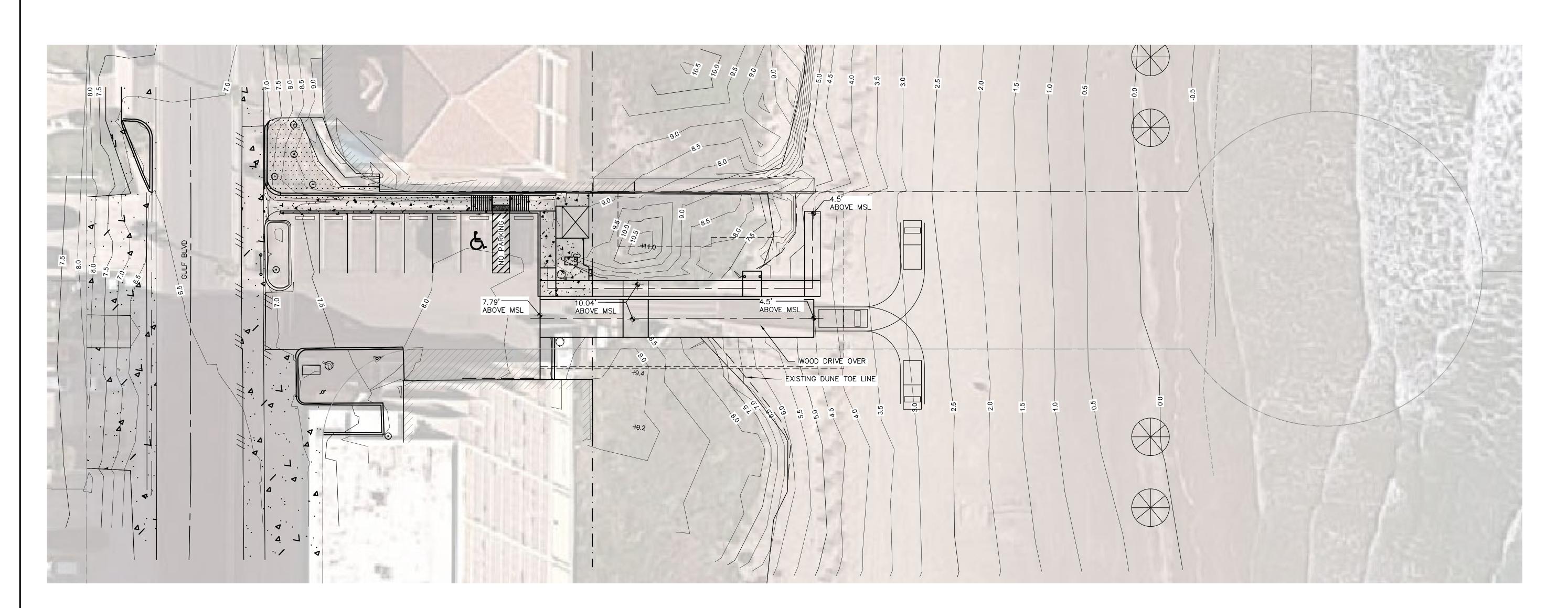






1. CONTRACTOR SHALL COORDINATE PARKING LOT SCOPE OF WORK TO MAINTAIN VEHICULAR ACCESS FROM ADJACENT SOUTH PROPERTY TO GULF BLVD RIGHT OF WAY.

CONSULTING STRU 1220 WES HARLINGEN, PH: (956)	10 & ASSOCIATES UCTURAL ENGINEERS IT HARRISON TEXAS 78550)428–4461 GINEERING.COM	
SEAL A ROLANCO R. RUB SCAL	12.21.2023	
PROJECT		
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	DRE ISLAND, XAS	
CLIENT CITY OF SOUTH PADRE ISLAND South South		
TE P: 956-	ISLAND DRE ISLAND, XAS -761–3044 -761–3898	
AND ROUTER COAST	ROAR CAND ATMOSPHERIC BAMINGTRATION	
MARK DATE 10/30/2023	DESCRIPTION 3 100% REGULATORY SUBMISSION	
PROJECT NO. DATE	1065–17 12–21–2023	
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CHECKED BY SCALE	SP AS SHOWN	
WITH	PLAN AERIAL RLAY	
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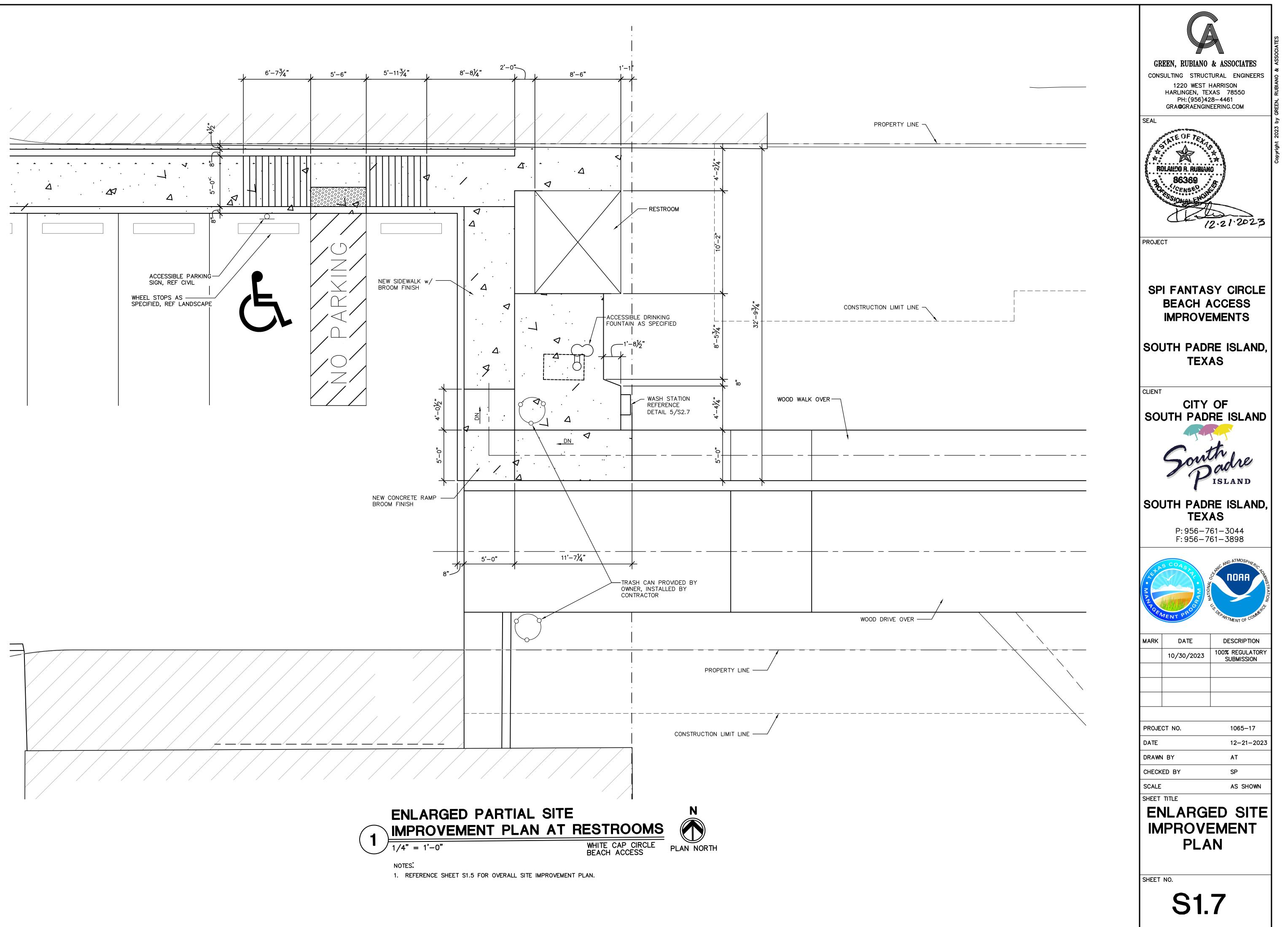


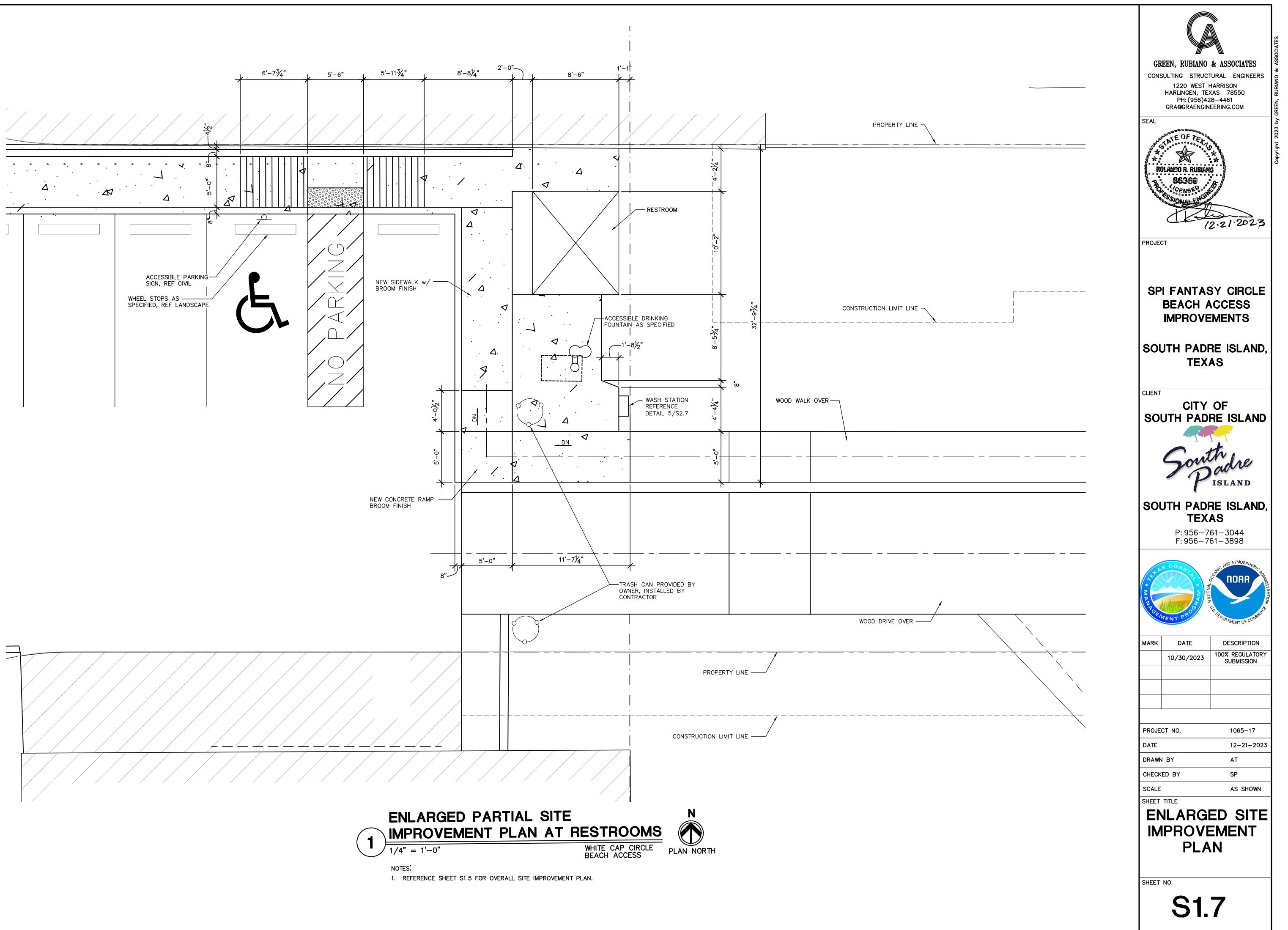




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DATE	12-21-2023
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			GENERAL
	THESE GENERAL NOTES SHALL APPLY UNLESS OTHERWISE SPECIFICALLY NOTED ON PLANS OR DETAILS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND	DRI	LLED PIERS CONTINUED
	SHALL COORDINATE ALL STRUCTURAL PLANS AND DETAILS WITH ARCHITECTURAL & CIVIL DRAWINGS BEFORE STARTING WORK. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR CONTRACTOR MEANS AND METHODS OF CONSTRUCTION OR SITE SAFETY. DESIGN, CONSTRUCTION, WORKMANSHIP AND MATERIALS SHALL COMPLY WITH THE CONTROLLING PROVISIONS OF THE 2018 EDITION OF THE	4.	FOR ESTIMATING PURPOSES, CARRY ALL PIERS TO THE THE DRAWINGS. WHEN DIRECTED BY THE ARCHITECT/ E ADJUSTED AS REQUIRED TO MEET DESIGN REQUIREMENT SPECIFIED IN THE CONTRACT PRICE FOR DEPTH ADJUST WITH THE UNIT PRICES QUOTED IN THE CONTRACTOR'S
DE	INTERNATIONAL BUILDING CODE (IBC).	5.	DUE TO SUBSURFACE STRATIGRAPHY AND WATER LEVE DRILLING OPERATIONS, IF THE CONTRACTOR CANNOT IN PIER AT THE REQUIRED DEPTH, THE ENGINEER MUST BE
	BASIS FOR DESIGN AND CODE COMPLIANCE	6.	PROVIDE SUITABLE ACCESS AND LIGHTING FOR INSPEC EXCAVATIONS FOR CLEANLINESS AND FOR CORRECTNES
2	A. GOVERNING BUILDING CODEIBC 2018 EDITION	7.	ALIGNMENT. PLACEMENT OF CONCRETE SHALL BE ACCOMPLISHED A AFTER EXCAVATION IS COMPLETE, REINFORCING CAGE IS
2.	RESTROOMS: DEAD LOADSELF-WEIGHT OF STRUCTURE & ROOFING SYSTEM LIVE LOAD (ROOF)20 PSF LIVE LOAD		THE CONCRETE SHOULD NOT BE ALLOWED TO RICOCHE PIER EXCAVATION NOR OFF OF THE REINFORCING STEEL CONCRETE SHALL COMPLY WITH AMERICAN CONCRETE IN CODE "BUILDING CODE REQUIREMENTS FOR REINFORCED 336–3R–72 ENTITLED "SUGGESTED DESIGN AND CONST PIER FOUNDATIONS". NO PIER EXCAVATION SHALL BE L WITHOUT CONCRETING.
	WALKOVERS: DEAD LOADSELF-WEIGHT OF STRUCTURE LIVE LOAD100 PSF DRIVEOVER:	8.	CASINGS SHALL BE REQUIRED TO PREVENT CAVING OF WATER INTO THE DRILLED FOOTINGS. CASINGS SHALL B STRENGTH TO WITHSTAND HANDLING STRESSES, CONCRI PRESSURES, AND SHALL BE WATERTIGHT. CONTRACTORS PRICES FOR CASING OF DIFFERENT SIZE PIER SHAFTS.
	DEAD LOADSELF-WEIGHT OF STRUCTURE LIVE LOAD250 PSF	9.	AS AN ALTERNATE TO USING CASINGS TO INSTALL THE METHOD MAY BE CONSIDERED.
3.	BREAKING WAVE LOADS ON CROSSOVER STRUCTURE A. BASE FLOOD ELEVATION	<u>C0</u>	NCRETE
	 BASE FLOOD ELEVATION AT STORM B. ASSUMED GROUND ELEVATION AT STORM SURGE	1.	ALL CONCRETE WORK SHALL CONFORM TO THE AMERIC. SPECIFICATION, A.C.I. #301 AND BUILDING CODE REQUIR A.C.I. #318, LATEST EDITION.
	C. COEFFICIENT OF DRAG FOR BREAKING WAVES FOR DRILLED PIER Cd = 1.75	2.	ALL DETAILING, FABRICATION AND ERECTION OF REINFO OTHERWISE NOTED, MUST FOLLOW THE A.C.I. "MANUAL FOR DETAILING REINFORCED CONCRETE", A.C.I. #315, LA
	D. DYNAMIC PRESSURE COEFFICIENT FOR VERTICAL SURFACE CATEGORY II, $Cp = 2.8$	3.	CONCRETE SHALL HAVE A MINIMUM COMPRESSION STR DAYS. PORTLAND CEMENT SHALL MEET ASTM C150, T
4.	WIND DESIGN BASED ON: A. ASCE 7–16 REQUIREMENTS ULTIMATE DESIGN WIND SPEED	4.	A MAXIMUM OF 25% FLYASH MAY BE USED AS A CEM SHALL CONFORM TO ASTM C618, CLASS C. THE WATER NOT EXCEED 0.5 AND SLUMPS SHALL BE 5 INCHES (\pm PIERS SHALL BE DESIGNED TO ACHIEVE SPECIFIED STM A SEVEN (7) INCH (\pm 1) SLUMP. AGGREGATE SHALL BE MAXIMUM FOR THE SLAB ON GRADE, 1" MAXIMUM FOR AND ABOVE GRADE SLABS. COARSE AGGREGATE SHAL
5.	WIND EXPOSURE CATEGORYD INTERNAL PRESSURE COEFFICIENT (GCpi)D Kzt1.0 Kd0.85 THESE BUILDINGS ARE DESIGNED TO MEET ASCE 7–16 WIND PRESSURES. ALL		GRADATION #57. A QUALIFIED TESTING LABORATORY S FURNISH MIX DESIGNS FOR ALL CLASSES OF CONCRET CYLINDERS SHALL BE TAKEN NOT LESS THAN ONCE A ONCE FOR EACH 100 YD3 OF CONCRETE. ONE CYLINDI DAYS AND TWO AT 28 DAYS. THE FOURTH CYLINDER AFTER 45 DAYS IF NOT USED.
	COMPONENTS AND CLADDINGS (E.G. WINDOWS, DOORS, ARCHITECTURAL SIDINGS AND ROOF PANELS) MUST MEET MINIMUM WIND CODE REQUIREMENTS.	5.	ADMIXTURES CONTAINING WATER SOLUBLE CHLORIDE IC BY WEIGHT OF CEMENT SHALL NOT BE USED.
6.	PIER DESIGN IS IN ACCORDANCE WITH THE 2018 INTERNATIONAL BUILDING CODE, AND IS BASED ON THE VALUES RECOMMENDED IN TABLE 1806.2 PRESUMPTIVE LOAD BEARING VALUES, AS LISTED BELOW:		REINFORCING BARS SHALL BE NEW BILLET STEEL CONFO GRADE 60. #3 BARS MAY BE GRADE 40. STANDARD PROTECTIVE COVER OF REINFORCING BARS U
	VERTICAL FOUNDATION PRESSURE	/.	SHALL BE: WHERE CAST AGAINST DIRT OR FILL
	ALLOWABLE SHAFT RESISTANCE		EXPOSED TO EARTH OR WEATHER
	A GEOTECHNICAL ENGINEER SHALL BE RETAINED TO PERFORM TESTING AND INSPECTIONS DURING INSTALLATION OF DRILLED PIERS AND WOOD PILES AS REQUIRED BY SPECIFICATIONS AND GENERAL STRUCTURAL NOTES.	8.	ALL ACCESSORIES SHALL BE IN ACCORDANCE WITH TH STANDARD PRACTICE FOR DETAILING REINFORCED CON- EDITION. ACCESSORIES FOR EXPOSED CONCRETE SOFFI COATED FEET.
1.	MAXIMUM DESIGN LOAD OF EACH PILE IS 6.0 KIPS.	9.	SLAB MAT TO BE SUPPORTED BY REINFORCING BAR C ON CENTER EACH WAY (MAX). BEAM CAGES SUPPORTE ON CENTER.
2.	PRIOR TO PILE PLACEMENT, THE CONTRACTOR SHALL PROVIDE THE ENGINEER DATA REGARDING THE PROPOSED HAMMER AND CUSHION SYSTEM. PILES SHALL BE ASTM D-25, CLASS "C" TREATED, PEELED SOUTHERN YELLOW	10.	MAINTAIN A MINIMUM OF ONE AND ONE-HALF (1-1/2) COARSE AGGREGATE SIZE BETWEEN ALL REINFORCING
	PINE OR DOUGLAS FIR. PILES SHALL BE CREOSOTED ACCORDING TO AWPA MANUAL STANDARDS C-3 WITH A MINIMUM RETENTION OF 12 POUNDS PER CUBIC FOOT.	11.	BARS SCHEDULED OR DETAILED "CONT" SHALL BE LAF (24 INCHES MINIMUM) UNLESS OTHERWISE NOTED. ON BEAMS. SPLICES OF BEAM BOTTOM BARS SHALL BE LAF SUPPORTS, AND SPLICES OF TOP BARS SHALL BE LAF
4. 5.	PILES SHALL HAVE A MINIMUM BUTT DIAMETER OF 12 INCHES AND A MINIMUM TIP DIAMETER OF 8 INCHES. A 8 INCH DIAMETER PILOT HOLE MAY BE DRILLED TO A DEPTH OF 5 FEET ABOVE	12.	
	THE FINAL TIP ELEVATION TO FACILITATE PILE DRIVING. JETTING ALONG SIDE OF PILES IS NOT PERMITTED.		CONSTRUCTED OF #2 LUMBER OR BETTER. WHERE SUF AS FOR FINISH PAINTING THE FORMS SHALL BE COMMI FIR, MOISTURE-RESISTANT CONCRETE FORM PLYWOOD; LEAST 9/16" THICK, OR FORMS LINED WITH COMMERCI
6. 7.	PILES SHALL BE DRIVEN WITH A DYNAMIC HAMMER HAVING AN EFFECTIVE DRIVING ENERGY OF 18,000 TO 48,000 FT/LBS/BLOW. ADEQUATE CUSHIONING MATERIAL SHALL BE PROVIDED BETWEEN THE PILE DRIVER		CONCRETE FORM EXTERIOR, 3-PLY, NOT LESS THAN 1 CONCRETE IS EXPOSED, A SMOOTH SURFACE IS REQUI HONEYCOMB, FORM MARKS OR OTHER DEFECTS.
8.	CAP AND THE PILE HEAD. A SOFTWOOD CUSHION WITH A THICKNESS OF 6 TO 12 INCHES IS PREFERRED. THE PILE DRIVING HELMET OR CAP SHALL BE SUFFICIENTLY LOOSE AROUND THE	13.	SUFFICIENTLY RIGID TO PREVENT DEFORMATION UNDER
0.	PILE BUTT SO AS NOT TO DEVELOP TORSIONAL STRESSES IN THE PILE DURING INSTALLATION, HOWEVER THE HELMET SHOULD BE CAPABLE OF CONTROLLING PILE ALIGNMENT.	14.	COLUMN FORMS AND BEAMS SIDE FORMS MAY BE REM CONCRETE PLACEMENT. BEAM AND SLAB BOTTOM FOR REMOVED AFTER CONCRETE COMPRESSIVE STRENTH RE GREATER.
9.	THE ENTIRE HAMMER-CUSHION-PILE SYSTEM SHOULD BE COMPATIBLE AND CAPABLE OF DRIVING PILES TO THE DESIGN PENETRATIONS WITHOUT DAMAGING PILES. BLOW COUNTS CONSISTENTLY IN EXCESS OF 50 BLOWS/FOOT ARE NOT IN LINE WITH GOOD PRACTICE.		CONCRETE MAY BE PLACED WITH CHUTES UP TO 25' NOT EXCEED 6" AT TRUCK DISCHARGE POINT.
	PILES SHALL BE PROPERLY ALIGNED PRIOR TO DRIVING AND HELD WITH FIXED LEADS. REALIGNMENT ONCE DRIVING HAS COMMENCED IS NOT PERMITTED.		a) COARSE AGGREGATE SHALL BE GRADED FROM A M
<u>DRI</u> 1.	<u>LLED PIERS</u> EACH PIER SHAFT SHALL BE INSPECTED BY QUALIFIED GEOTECHNICAL OR A/E PERSONNEL TO INSURE PROPER BEARING AT SCHEDULED ELEVATION AND TO		 MAXIMUM ALLOWABLE INCREASE IN CEMENT FACTOR CUBIC YARD OVER NORMAL MIX DESIGN. MAXIMUM WATER CEMENT RATIO SHALL BE 7-1/2
2.	VÉRIFY STRATAS NOTED IN THE GEOTECHNICAL REPORT. ALL PIERS SHALL BE CENTERED ON BEAMS UNLESS OTHERWISE SHOWN.		CEMENT. IF MORE WORKABILITY IS REQUIRED, AN A
3.	DRILL PIERS TO THE EXACT SIZE SHOWN. SHAFTS SHALL BE BORED PLUMB WITH A TOLERANCE OF TWO INCHES. INSTALL OFFSET STAKES ON OPPOSITE SIDES OF THE PIER AND USE TO MAINTAIN THE PIER CENTERS AND TO CHECK THE PIER		NOT EXCEED 2/3. REFER TO A.C.I. #301, LATEST EDITION, SECTION 80
	PLUMBNESS. FOOTING BOTTOMS SHALL BE INSPECTED FOR A MAXIMUM OF ONE INCH (1") OF LOOSE DIRT AND TWO INCHES (2") OF GROUND WATER IMMEDIATELY PRIOR TO PLACING CONCRETE. IF MACHINE CLEANING IS NOT SATISFACTORY TO ARCHITECT/ENGINEER, HAND CLEANING WILL BE REQUIRED.		 REQUIREMENTS. f) IN NO CASE SHALL CONCRETE BE PUMPED THROUG g) SLUMP SHALL NOT EXCEED 6" AT TRUCK DISCHARC
1		1	

STRUCTURAL NOTES

	<u>C01</u>	NCRE	TE (
HE DEPTHS INDICATED ON ENGINEER, PIERS SHALL BE		FL(
NTS ADJUSTMENTS WILL BE ISTMENTS IN ACCORDANCE 'S BID.			STE FLC
VELS ENCOUNTERED DURING INSTALL THE RECOMMENDED		c)	SCR
BE CONTACTED IMMEDIATELY. ECTION OF THE ESS OF DIMENSIONS AND		d)	IN A COO REFE
AS SOON AS POSSIBLE IS PLACED AND INSPECTED.	18.	PR	NCRE OPOS NCRE
IET OFF THE WALLS OF THE EEL. PLACEMENT OF INSTITUTE (ACI) 318–89 ED CONCRETE" AND ACI	19.	SU SIN	OP D BMIT IGLE PROD
STRUCTION PROCEDURES FOR LEFT OPEN OVERNIGHT	20.	TH SU	E CO BMIT
DF SOIL AND SEEPAGE OF BE METAL WITH AMPLE CRETE AND EARTH	-01	DR	
DRS SHALL FURNISH UNIT S.		OF	GINEI STR
HE PIERS, THE SLURRY	STR	RUCT	URAI
	1.	ACC	STR ORDA EL C
CICAN CONCRETE INSTITUTE	2.		MEN ANS
FORCING BARS, UNLESS L OF STANDARD PRACTICE LATEST EDITION.	3.	QU	SHC ALIFI E LA
TRENGTH OF 4000 PSI AT 28 TYPE II (MODERATE).	4.		DS S /S D1
EMENT SUBSTITUTE AND TER/CEMENT RATIO SHALL		BE	CTIOI TRUE
(<u>+</u> 1 INCH). CONCRETE FOR STRENGTH WHEN PLACED WITH BE WELL-GRADED, 1" OR CAST-IN-PLACE BEAMS ALL MEET ASTM C33, SHALL BE RETAINED TO	6.	BY PRO BE	COM A QU CEDU REMC AYEI
ETE. A SAMPLE OF FOUR A DAY, NOR LESS THAN IDER SHALL BE TESTED AT 7	7.		FAE COM
R MAY BE DISPOSED OF			STE
IONS GREATER THAN 0.06%		PRIN	r er 1er (
NFORMING TO ASTM A-615,	10.	INSF	D WE PECTO UCTU

JNLESS OTHERWISE NOTED

HE A.C.I. "MANUAL OF NCRETE", A.C.I. #315, LATEST FITS SHALL HAVE PLASTIC

HAIRS SPACED AT 4 FEET TED BY CHAIRS AT 4 FEET

TIMES THE MAXIMUM BARS (EXCEPT AT LAPS).

PPED 48 BAR DIAMETERS REINFORCED CONCRETE APPED AT THE COLUMN PPED AT THE MIDDLE THIRD

THE FORMS MAY BE RFACES ARE EXPOSED, SUCH ERCIAL STANDARD DOUGLAS MINIMUM 5-PLY AND AT IAL STANDARD DOUGLAS FIR 1/4" THICK. WHERE RED, FREE FROM FINS,

MAINTAIN FORMS LOAD.

MOVED 48 HOURS AFTER RMS AND SHORING MAY BE ACHES 3000 PSI OR

MAXIMUM. SLUMP SHALL

LOWING REQUIREMENTS:

AXIMUM OF 1" DOWN SHALL BE 1/2 SACK PER

GALLONS PER SACK OF

ADMIXTURE MAY BE USED. COARSE AGGREGATES SHALL

300, FOR OTHER PUMPING

GH AN ALUMINUM TUBE. RGE POINT.

<u>CONTINUED</u>

FINISH (TOLERANCES)

- TEEL TROWEL FINISH 1/8" IN 10'
- LOAT FINISH 1/4" IN 10'
- CRATCH FINISH 1/2" IN 10'
- ALL INSTANCES MINIMUM SLAB THICKNESS SHALL BE PROVIDED. DRDINATE SLAB FINISH REQUIREMENTS WITH PLANS/SPECIFICATIONS. FERENCE PLANS AND/OR SPECIFICATIONS FOR CONCRETE FINISHES.
- RETE TO BE CURED IN ACCORDANCE WITH ACI RECOMMENDATIONS. SED METHOD OF CURING TO BE COORDINATED WITH ENGINEER PRIOR TO RETE PLACEMENT.
- DRAWINGS SHALL BE PREPARED FOR ALL REINFORCING STEEL AND TTED FOR REVIEW BY ENGINEER. SUBMITTALS SHALL BE TRANSMITTED AS A ELECTRONIC FILE (PDF FORMAT). ENGINEERING DRAWINGS SHALL NOT BE DUCED AND USED AS SHOP DRAWINGS.
- ONTRACTOR SHALL REVIEW AND ANNOTATE SHOP DRAWINGS BEFORE TTING THEM TO THE ARCHITECT/ENGINEER FOR REVIEW. THE CONTRACTOR ALLOW ARCHITECT/ENGINEER 10 WORKING DAYS FOR REVIEW OF SHOP NGS.
- EER TO BE NOTIFIED 24 HOURS PRIOR TO PLACEMENT OF FOUNDATION AND RUCTURAL CONCRETE TO SCHEDULE REQUIRED INSPECTIONS.

<u>AL STEEL</u>

- CUCTURAL STEEL SHALL BE DESIGNED, FABRICATED AND ERECTED IN ANCE WITH THE LATEST SPECIFICATIONS OF THE AMERICAN INSTITUTE OF CONSTRUCTION.
- MBERS SHALL BE FULL LENGTH WITHOUT SPLICES UNLESS INDICATED ON OR APPROVED BY THE ENGINEER IN WRITING.
- HOP AND FIELD WELDS SHALL BE MADE BY WELDERS WHO HAVE BEEN FIED AND CERTIFIED TO MAKE THE REQUIRED WELDS IN ACCORDANCE WITH ATEST AMERICAN WELDING SOCIETY SPECIFICATIONS (A.W.S. D-1.1).
- SHALL BE MADE WITH COVERED MILD STEEL ELECTRODES COMPLYING WITH D1-72 CODE AND SERIES E 70XX.
- ON CONNECTORS SHALL BE PROVIDED IN ORDER TO PROPERLY ALIGN AND AND PLUMB WHEN WELDS ARE MADE.
- MPLETE PENETRATION WELDS, BOTH SHOP AND FIELD, SHALL BE TESTED JALIFIED TESTING LABORATORY UTILIZING ULTRA SONIC TESTING URES IN ACCORDANCE WITH AWSD1.1 ANY WELDS FOUND DEFECTIVE SHALL OVED AND REPLACED AT NO ADDITIONAL COST TO THE OWNER. ALL ED WELDS SHALL BE GROUND SMOOTH.
- BRICATOR SHALL SUPPLY BACK-UP PLATES AND EXTENSION TABS FOR MPLETE PENETRATION WELDS.
- EEL MEMBERS, UNLESS NOTED OTHERWISE, SHALL STAINLESS STEEL.
- RECTION, PRIME WELDS, ABRASIONS AND SURFACES NOT PRIMED. USE CONSISTENT WITH STEEL FINISH.
- VELDS SHALL BE VISUALLY INSPECTED BY A QUALIFIED INDEPENDENT TOR. THE INSPECTOR SHALL PROVIDE A WRITTEN REPORT TO THE STRUCTURAL ENGINEER.
- 11. A SINGLE ELECTRONIC FILE (PDF FORMAT) SHOP DRAWINGS SHALL BE PREPARED FOR ALL STRUCTURAL STEEL COMPONENTS AND SUBMITTED FOR REVIEW BY ENGINEER. ENGINEERING DRAWINGS SHALL NOT BE REPRODUCED AND USED AS SHOP DRAWINGS.
- 12. THE CONTRACTOR SHALL REVIEW AND ANNOTATE SHOP DRAWINGS BEFORE SUBMITTING THEM TO THE ARCHITECT/ENGINEER FOR REVIEW. THE CONTRACTOR SHALL ALLOW ARCHITECT/ENGINEER 10 WORKING DAYS FOR REVIEW OF SHOP DRAWINGS.
- 13. THE STRUCTURAL ENGINEER SHALL BE NOTIFIED FOR A FRAMING OBSERVATIONS IMMEDIATELY AFTER ROOF DECK IS INSTALLED AND BEFORE INSTALLATION OF THE CEILING.

FASTENERS

- CAST-IN-PLACE AND POST-INSTALLED ANCHORS SHALL BE PER ANCHOR DIAMETER AND EMBEDMENT DEPTH NOTED ON THE DRAWINGS. POST-INSTALLED ANCHORS SHALL BE UTILIZED ONLY WHERE SPECIFIED. ALL ANCHORS SHALL BE HOT-DIPPED GALVANIZED PER ASTM A153
- 2. ALL ANCHORS NOTED BELOW SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR SHALL CONTACT MANUFACTURER'S REPRESENTATIVE FOR THE INITIAL TRAINING AND INSTALLATION OF ANCHORS, AND FOR PRODUCT RELATED QUESTIONS AND AVAILABILITY.
- 3. SPECIAL INSPECTIONS SHALL BE PROVIDED FOR ALL MECHANICAL AND ADHESIVE ANCHORS PER THE APPLICABLE EVALUATION REPORT NOTED BELOW. SPECIAL INSPECTIONS SHALL BE PERFORMED BY INDEPENDENT TESTING LABORATORY PERFORMING QA/QC SERVICES ON PROJECT.
- 4. EXPANSION BOLTS (EB) IN CONCRETE/CMU SHALL BE TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193. ACCEPTABLE PRODUCTS:
- A. KWIK BOLT III (ICC-ES ESR-2302) BY HILTI (CONCRETE)
- B. KWIK BOLT III (ICC-ES-ESR-1385) BY HILTI (MASONRY)
- C. STRONG-BOLT 2 (ICC-ES ESR-3037) BY SIMPSON STRONG-TIE (CONCRETE)
- D. WEDGE-ALL ANCHOR (ICC-ES ESR-1396) BY SIMPSON STRONG-TIE (MASONRY)
- HEAVY DUTY SLEEVE ANCHORS IN CONCRETE/CMU SHALL BE TESTED AND QUALIFIED OR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193. EXPANSION BOLTS (EB) SHALL NOT BE SUBSTITUTED FOR SLEEVE ANCHORS WITHOUT PRIOR WRITTEN APPROVAL BY STRUCTURAL ENGINEER. ACCEPTABLE PRODUCTS:
- A. HSL-3 (ICC-ES ESR-1545) BY HILTI (CONCRETE)
- 6. SCREW ANCHORS IN CONCRETE SHALL BE TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193. ACCEPTABLE PRODUCTS:
- A. KWIK HUS-EZ (ICC-ES ESR-3027) BY HILTI (CONCRETE)

B. KWIK HUS-EZ (ICC-ES ESR-3056) BY HILTI (MASONRY)

- C. TITEN HD (ICC-ES ESR-2713) BY SIMPSON STRONG-TIE (CONCRETE)
- D. TAPCON ANCHORS (ICC-ES ESR-1671) (MASONRY)
- E. POWERS WEDGE BOLT (ICC-ES ESR-1678) (MASONRY)

FASTENERS CONTINUED

- UNDERCUT ANCHORS IN CONCRETE SHALL BE TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193. ACCEPTABLE PRODUCTS:
- A. HDA (ICC-ES ESR-1546) BY HILTI (CONCRETE)
- B. TORQ-CUT (ICC-ES ESR-2705) BY SIMPSON STRONG-TIE (CONCRETE)
- QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193. ACCEPTABLE PRODUCTS:
- A. X-U (ICC-ES ESR-2269) BY HILTI (CONCRETE/MASONRY)
- B. POWDER ACTUATED FASTENERS (ICC-ES ESR-2138) BY SIMPSON STRONG TIE (CONCRETE/MASONRY)
- ADHESIVE ANCHORS IN CONCRETE/CMU SHALL BE TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308. ACCEPTABLE PRODUCTS:
- A. HIT-RE 500-SD (ICC-ES ESR-2322) BY HILTI (CONCRETE)
- B. HIT-HY 150 MAX (ICC-ES ESR-1967) BY HILTI (MASONRY)
- C. SET-XP (ICC-ES ESR-2508) BY SIMPSON STRONG-TIE (CONCRETE)
- D. SET (ICC-ES ESR-1772) BY SIMPSON STRONG-TIE (MASONRY)
- 10. J-BOLTS SHALL BE FABRICATED FROM ASTM A36/A307 ROD. BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED. EXPANSION BOLTS/SLEEVE ANCHORS SHALL NOT BE SUBSTITUTED FOR J-BOLTS WITHOUT PRIOR WRITTEN APPROVAL BY STRUCTURAL ENGINEER.
- 11. HEADED ANCHOR RODS SHALL BE FABRICATED FROM ASTM F1554 MATERIAL, FY=36 KSI
- 12. SUBSTITUTION REQUESTS FOR PRODUCTS LISTED ABOVE SHALL BE SUBMITTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER ALONG WITH CALCULATIONS THAT ARE PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERTINENT EQUIVALENT PERFORMANCE VALUES OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARDS. SUBSTITUTED ANCHORS SHALL HAVE A VALID CURRENT EVALUATION (ICC-ES OR IAPMO-ES) REPORT.

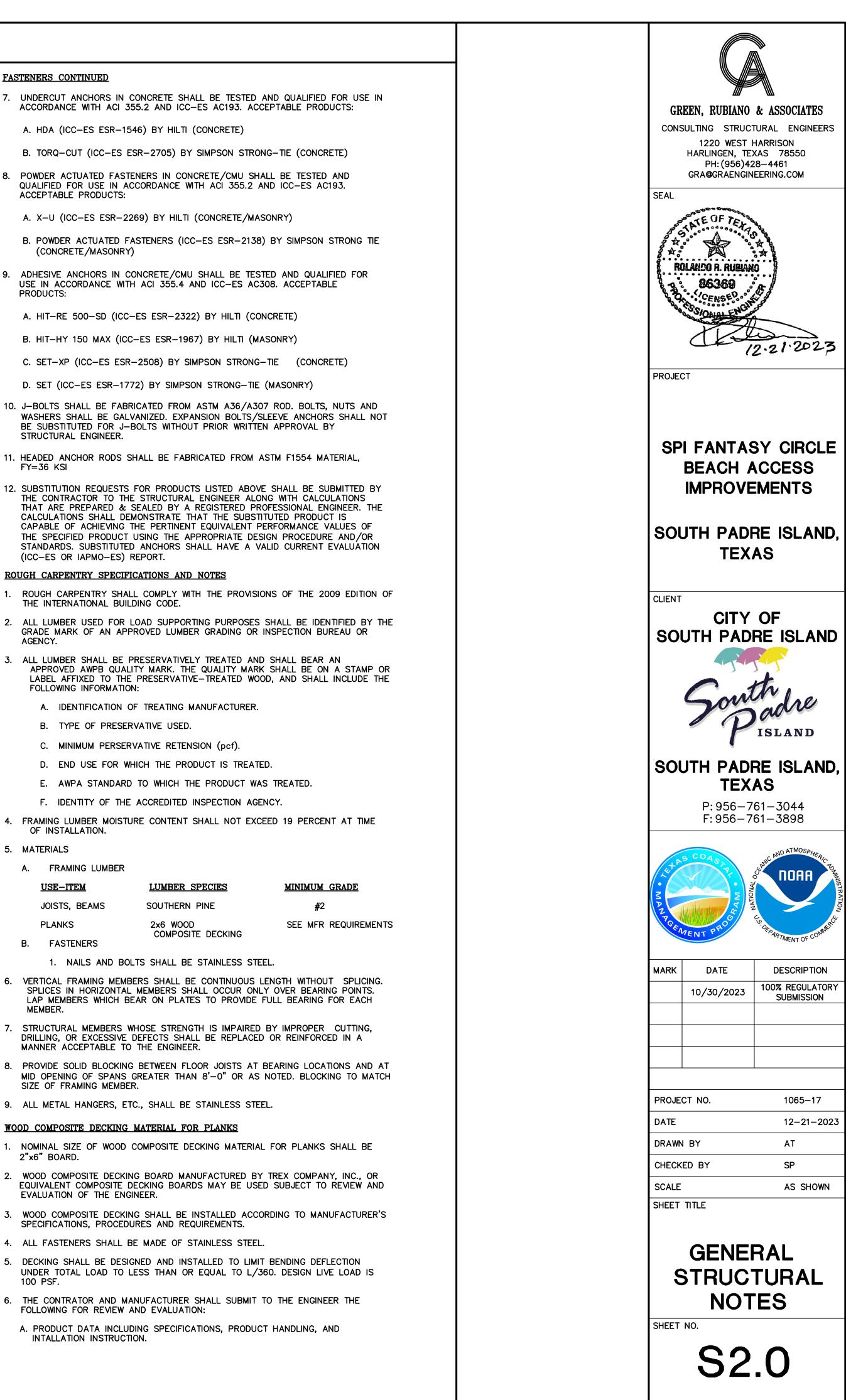
ROUGH CARPENTRY SPECIFICATIONS AND NOTES

- ROUGH CARPENTRY SHALL COMPLY WITH THE PROVISIONS OF THE 2009 EDITION OF THE INTERNATIONAL BUILDING CODE.
- 2. ALL LUMBER USED FOR LOAD SUPPORTING PURPOSES SHALL BE IDENTIFIED BY THE GRADE MARK OF AN APPROVED LUMBER GRADING OR INSPECTION BUREAU OR AGENCY.
- 3. ALL LUMBER SHALL BE PRESERVATIVELY TREATED AND SHALL BEAR AN FOLLOWING INFORMATION:
 - A. IDENTIFICATION OF TREATING MANUFACTURER.
 - B. TYPE OF PRESERVATIVE USED.
 - C. MINIMUM PERSERVATIVE RETENSION (pcf).
 - D. END USE FOR WHICH THE PRODUCT IS TREATED.
 - E. AWPA STANDARD TO WHICH THE PRODUCT WAS TREATED.
 - F. IDENTITY OF THE ACCREDITED INSPECTION AGENCY.
- 4. FRAMING LUMBER MOISTURE CONTENT SHALL NOT EXCEED 19 PERCENT AT TIME OF INSTALLATION.
- 5. MATERIALS

۹.	FRAMING LUMBER	
	<u>USE-ITEM</u>	LUMBER SPE
	JOISTS, BEAMS	SOUTHERN PIN
	PLANKS	2x6 WOOD
З.	FASTENERS	COMPOSITE [

1. NAILS AND BOLTS SHALL BE STAINLESS STEEL.

- 5. VERTICAL FRAMING MEMBERS SHALL BE CONTINUOUS LENGTH WITHOUT SPLICING. SPLICES IN HORIZONTAL MEMBERS SHALL OCCUR ONLY OVER BEARING POINTS. LAP MEMBERS WHICH BEAR ON PLATES TO PROVIDE FULL BEARING FOR EACH MEMBER.
- 7. STRUCTURAL MEMBERS WHOSE STRENGTH IS IMPAIRED BY IMPROPER CUTTING, DRILLING, OR EXCESSIVE DEFECTS SHALL BE REPLACED OR REINFORCED IN A MANNER ACCEPTABLE TO THE ENGINEER.
- 8. PROVIDE SOLID BLOCKING BETWEEN FLOOR JOISTS AT BEARING LOCATIONS AND AT MID OPENING OF SPANS GREATER THAN 8'-0" OR AS NOTED. BLOCKING TO MATCH SIZE OF FRAMING MEMBER.
- 9. ALL METAL HANGERS, ETC., SHALL BE STAINLESS STEEL
- WOOD COMPOSITE DECKING MATERIAL FOR PLANKS
- NOMINAL SIZE OF WOOD COMPOSITE DECKING MATERIAL FOR PLANKS SHALL BE 2"x6" BOARD.
- 2. WOOD COMPOSITE DECKING BOARD MANUFACTURED BY TREX COMPANY. INC., OR EQUIVALENT COMPOSITE DECKING BOARDS MAY BE USED SUBJECT TO REVIEW AND EVALUATION OF THE ENGINEER.
- 3. WOOD COMPOSITE DECKING SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS. PROCEDURES AND REQUIREMENTS.
- 4. ALL FASTENERS SHALL BE MADE OF STAINLESS STEEL.
- 5. DECKING SHALL BE DESIGNED AND INSTALLED TO LIMIT BENDING DEFLECTION UNDER TOTAL LOAD TO LESS THAN OR EQUAL TO L/360. DESIGN LIVE LOAD IS 100 PSF.
- 6. THE CONTRATOR AND MANUFACTURER SHALL SUBMIT TO THE ENGINEER THE FOLLOWING FOR REVIEW AND EVALUATION:
- A. PRODUCT DATA INCLUDING SPECIFICATIONS, PRODUCT HANDLING, AND INTALLATION INSTRUCTION.



CONCRETE MASONRY

- THE GENERAL CONTRACTOR. PROJECT SUPERINTENDENT. TESTING LABORATORY AND THE MASONRY FOREMAN SHALL MEET WITH THE STRUCTURAL ENGINEER PRIOR TO THE START OF MASONRY WORK TO REVIEW PROJECT REQUIREMENTS AND PROCEDURES.
- . AN INDEPENDENT TESTING LAB SHALL VERIFY PLACEMENT OF VERTICAL REINFORCING IN WALLS AND HORIZONTAL REINFORCING IN BOND BEAMS AND LINTELS PRIOR TO PLACEMENT OF GROUT. INDEPENDENT TESTING LAB SHALL PROVIDE CONTINUOUS VISUAL OBSERVATIONS OF GROUTING PROCEDURES, REBAR PLACEMENT, SITE MIXING OF MORTAR, INSTALLATION OF EMBEDED STEEL CONNECTORS, AND GENERAL PLACEMENT OF MASONRY UNITS AND MORTAR JOINTS. INSPECTION REPORTS ARE TO BE GENERATED DAILY BY THE TESTING LAB. INSPECTION SUMMARY REPORTS SHALL BE EMAILED TO THE STRUCTURAL ENGINEER IN ELECTRONIC (PDF) FORMAT.
- . ALL CONCRETE MASONRY SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL BUILDING CODES AND THE AMERICAN CONCRETE INSTITUTE (ACI 530-13/ ASCE 5-13/ TMS 402-16). DESIGN IS BASED ON MASONRY COMPRESSIVE STRENGTH (f'm) OF 2,000 PSI.
- . HOT AND COLD WEATHER CONSTRUCTION PROCEDURES SHALL BE UTILIZED AS REQUIRED BY THE SPECIFICATIONS AND ACI 530.1.
- . HOLLOW CONCRETE MASONRY UNITS SHALL BE DOMESTIC LIGHTWEIGHT MOISTURE CONTROLLED TYPE I UNITS, CONFORMING TO ASTM C-90.
- . MASONRY UNITS SHALL HAVE A MINIMUM AVERAGE COMPRESSIVE STRENGTH OF 1,900 PSI (NET AREA) WHEN TESTED IN ACCORDANCE WITH ASTM C-140, "METHODS OF SAMPLING AND TESTING CONCRETE MASONRY UNITS".
- MORTAR PROPORTIONS FOR REINFORCED MASONRY SHALL BE ESTABLISHED PER ASTM C270 PROPORTION SPECIFICATIONS, TYPE S USING MASONRY CEMENT.
- 3. GROUT FOR ALL REINFORCED HOLLOW MASONRY UNIT WALLS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI WITH A MAXIMUM 3/8" AGGREGATE. A MID RANGE WATER REDUCING AGENT SUCH AS "POLYHEED" (MASTER BUILDERS) SHALL BE USED. SLUMP TO BE BETWEEN 8 AND 11 INCHES. ALL GROUT SHALL BE PUMPED. PLACING OF GROUT TO FOLLOW AMERICAN CONCRETE INSTITUTE (ACI) RECOMMENDATIONS REGARDING LOW & HIGH LIFT GROUTING MAXIMUM LIFT OF GROUT SHALL NOT EXCEED 5'-0" UNLESS APPROVED BY THE ENGINEER PRIOR TO START OF GROUTING. GROUT TO BE TESTED BY A QUALIFIED TESTING LABORATORY AT A RATE OF ONE TEST PER 25 CY OF GROUT IN ACCORDANCE WITH ASTM C1019.
- . REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60. ALL BAR REINFORCING SHALL BE LAPPED 48 BAR DIAMETERS (MIN). BARS SHALL BE PLACED WITHIN 1/2" (CENTERLINE OF BAR TO FACE OF MASONRY) OF LOCATION SHOWN IN STRUCTURAL PLANS. BARS SHALL BE HELD IN POSITION DURING GROUTING WITH BAR POSITIONERS. POSITIONERS SHALL BE LOCATED AT THE BOTTOM AND TOP OF THE WALL AND AT 8 TO 10 FOOT INTERVALS. BARS SPLICED BY NON-CONTACT LAP SPLICES SHALL NOT BE SPACED TRANSVERSELY FARTHER APART THAN ONE-FIFTH THE REQUIRED LENGTH OF LAP NOR MORE THAN 8 INCHES.
- O. VERTICAL BARS SHALL EXTEND TO THE TOP OF THE PARAPET WALL OR BOND BEAM WHEN A 16" DEEP BEAM IS SPECIFIED. HOOKED DOWELS SHALL BE PROVIDED AT ROOF BOND BEAMS (w/o PARAPETS) LESS THAN 16" DEEP. DOWELS SHALL BE 30" LONG WITH 12" HOOKS.
- . ALL EXTERIOR MASONRY WALLS SHALL BE REINFORCED WITH 9 GA. HOT DIPPED GALVANIZED HORIZONTAL WIRE REINFORCEMENT (LADDER TYPE) EMBEDDED IN MORTAR JOINTS AT 16" O.C. NOMINAL WIDTH OF JOINT REINFORCING SHALL EQUAL WALL THICKNESS. (INTERIOR WALLS MAY BE MILL GALVANIZED). WIRE REINFORCEMENT SHALL CONFORM TO ASTM DESIGNATION A-82, AND SHALL BE LAPPED AT LEAST 8" WITH AT LEAST ONE CROSS WIRE WITHIN THE LAP. JOINT REINFORCING SHALL BE INSTALLED IN THE FIRST AND SECOND MORTAR BED JOINTS IMMEDIATELY ABOVE AND BELOW ALL OPENINGS. WIRE REINFORCING SHALL BE DISCONTINUOUS AT CONTROL JOINTS.
- 12. EXTERIOR WALLS SHALL BE BONDED WITH CONCRETE MASONRY UNITS AT BUILDING CORNERS.
- 13. ONE GROUTED #5 BAR SHALL BE PROVIDED AROUND THE PERIMETER OF ALL WALL OPENINGS AND AT BUILDING CORNERS UNLESS NOTED OTHERWISE ON THE STRUCTURAL PLANS.
- 4. NEATLY TOOL INTERIOR AND EXTERIOR JOINTS IN MASONRY TO FORM A SLIGHTLY CONCAVE PROFILE WHEN MORTAR IS THUMBPRINT HARD UNLESS SHOWN OTHERWISE. ALL MORTAR JOINTS SHALL BE TOOLED THE ENTIRE HEIGHT OF WALL.
- 15. BOND BEAMS SHALL BE REINFORCED WITH TWO CONTINUOUS #5 BARS UNLESS NOTED OTHERWISE ON THE STRUCTURAL PLANS. REINFORCING SHALL BE CONTINUOUS AT ALL CORNERS AND INTERSECTING WALLS. (PROVIDE CORNER BARS). WHERE SIDE WALL AND END WALL BOND BEAMS DO NOT COURSE CONTINUE THE LOWER BOND BEAM AROUND THE BUILDING CORNER TO THE FIRST VERTICAL REINFORCED CELL.
- 6. CONTROL JOINTS SHALL BE CONSTRUCTED WITH SLOTTED MASONRY UNITS AND FACTORY MOLDED JOINT FILLER. JOINTS SHALL BE CAULKED WITH AN APPROVED MATERIAL. JOINTS SHALL BE PROVIDED AT MAXIMUM SPACING OF 22 FT. AND AT ALL LOCATIONS WHERE COLUMNS ARE PLACED IN CMU CELLS. (EXTERIOR AND INTERIOR WALLS). JOINT LOCATIONS, IF NOT SHOWN ON PLANS. SHALL BE COORDINATED WITH ARCHITECT.
- 7. CONTROL JOINTS SHALL NOT EXTEND THROUGH BOND BEAMS UNLESS INDICATED ON THE STRUCTURAL PLANS.
- 18. CONTROL JOINTS IN CMU WALLS SHALL NOT BE LOCATED CLOSER THAN 2'-0" FROM AN EDGE OF OPENING WITHOUT REVIEW OF STRUCTURAL ENGINEER.
- 19. COLUMNS WHICH EXTEND THROUGH BOND BEAMS SHALL BE WRAPPED WITH 2 LAYERS OF 30# BUILDING PAPER. REINFORCING SHALL BE CONTINUOUS PAST COLUMNS WHEN ADEQUATE CLEARANCE EXISTS.
- 20. LINTELS OVER ALL OPENINGS IN INTERIOR MASONRY PARTITIONS, NOT OTHERWISE COVERED, ARE TO BE OF STANDARD CMU LINTEL BLOCK WITH THICKNESS EQUAL TO WALL THICKNESS. DEPTH SHALL BE 8" FOR OPENINGS UP TO 6'-0", REINFORCED WITH TWO #5's, LOCATED 2-1/2" ABOVE THE BOTTOM EXTERIOR FACE OF THE UNIT.

GENERAL STRUCTURAL NOTES

SPECIAL INSPECTIONS

SPECIAL INSPECTIONS INDEPENDENT OF THE CONTRACTOR. THE ARCHITECT, OR THE ENGINEER. SHALL BE PROVIDED BY A SPECIAL INSPECTOR EMPLOYED BY THE OWNER ACCORDING TO CHAPTER 17 OF THE IBC 2018. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS. THE SPECIAL INSPECTOR SHALL SEND WRITTEN REPORTS TO THE OWNER, THE ARCHITECT, THE ENGINEER AND THE CONTRACTOR. THE REPORTS SHALL INDICATE IF WORK INSPECTED WAS DONE IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THE SPECIAL INSPECTOR SHALL BRING THE DISCREPANCIES TO THE ATTENTION OF THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO THE COMPLETION OF THAT PHASE OF THE WORK. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING THAT THE SPECIAL INSPECTION WORK WAS. TO THE BEST OF THEIR KNOWLEDGE, IN OR NOT IN CONFORMANCE WITH THE DRAWINGS, SPECIFICATIONS AND APPLICABLE WORKMANSHIP PROVISIONS OF THE IBC 2018.

CONTINUOUS OR PERIODIC SPECIAL INSPECTION IS REQUIRED FOR THE FOLLOWING WORK:

VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		x
PERFORM CLASSIFICATION AND TESTING OF SELECT FILL MATERIALS		x
VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF SELECT FILL	x	
PRIOR TO PLACEMENT OF SELECT FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY		x

REQUIRED VERIFICATION

VERIFICATION AND INSPEC

OBSERVE DRILLING OPERATIONS AND AND ACCURATE RECORDS OF EACH

VERIFY PLACEMENT LOCATIONS AND CONFIRM PIER DIAMETERS, BELL DIA APPLICABLE), LENGTHS, EMBEDMENT APPLICABLE) AND ADEQUATE END B CAPACITY

FOR CONCRETE PIERS, PERFORM ADDITIONAL INSPECTIONS AS REQUIRED FOR CONCRETE CONSTRUCTION

INSPECTION OF REINFORCING STEEL

PRESTRESSING TENDONS, AND PLA INSPECT BOLTS TO BE INSTALLED TO AND DURING PLACEMENT OF C

VERIFY USE OF REQUIRED DESIGN

PERFORM SLUMP AND AIR CONTEN DETERMINE THE TEMPERATURE OF THE TIME OF SAMPLING FRESH CO

SPECIMENS FOR STRENGTH TESTS INSPECTION OF CONCRETE AND SH

FOR PROPER APPLICATION TECHNIC INSPECTION FOR MAINTENANCE OF

TEMPERATURE AND TECHNIQUES INSPECTION OF PRESTRESSED CON

OF PRESTRESSING FORCES

VERIFICATION OF IN-SITU CONCRET TO STRESSING OF TENDONS IN POS CONCRETE AND PRIOR TO REMOVA FORMS FROM BEAMS AND STRUCT

ERECTION OF PRECAST CONCRETE

INSPECT FORMWORK FOR SHAPE, I DIMENSIONS OF THE CONCRETE ME

REQUIRED VERIFICATION AND INSPECTION OF SOILS

AND INSPECTION OF PIER FOUNDATIONS					
CTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED			
D MAINTAIN COMPLETE PIER	X				
) PLUMBNESS, AMETERS (IF T INTO BEDROCK (IF BEARING STRATA	x				
	AS REQUIRED FO	OR CONCRETE			

REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION			
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	
ECTION OF REINFORCING STEEL, INCLUDING STRESSING TENDONS, AND PLACEMENT		x	
ECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR AND DURING PLACEMENT OF CONCRETE	X		
FY USE OF REQUIRED DESIGN MIX		x	
FORM SLUMP AND AIR CONTENT TEST, AND ERMINE THE TEMPERATURE OF THE CONCRETE AT TIME OF SAMPLING FRESH CONCRETE FOR MAKING CIMENS FOR STRENGTH TESTS PER ACI 318	x		
ECTION OF CONCRETE AND SHOTCRETE PLACEMENT PROPER APPLICATION TECHNIQUES	X		
ECTION FOR MAINTENANCE OF SPECIFIED CURING PERATURE AND TECHNIQUES		x	
ECTION OF PRESTRESSED CONCRETE APPLICATION PRESTRESSING FORCES	x		
FICATION OF IN-SITU CONCRETE STRENGTH, PRIOR STRESSING OF TENDONS IN POST-TENSIONED CRETE AND PRIOR TO REMOVAL OF SHORES AND MS FROM BEAMS AND STRUCTURAL SLABS		х	
CTION OF PRECAST CONCRETE MEMBERS		Х	
ECT FORMWORK FOR SHAPE, LOCATION AND INSIONS OF THE CONCRETE MEMBER BEING FORMED		x	

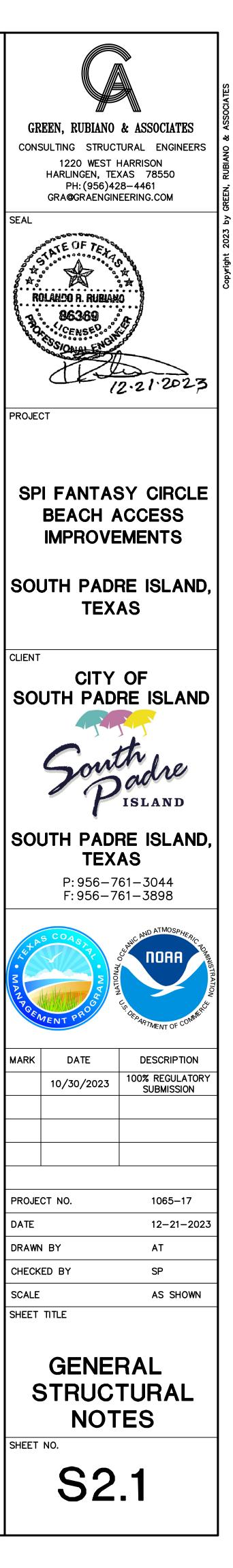
REQUIRED LEVEL 1 SPECIAL INSPECTION OF MASONRY CONSTRUCTION (OCCUPANCY CATEGORY I, II, III)			
INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	
AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:			
PROPORTIONS OF SITE-PREPARED MORTAR		x	
PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORTAR JOINTS		x	
LOCATION OF REINFORCEMENT, CONNECTORS AND ANCHORAGES		x	
THE INSPECTION PROGRAM SHALL VERIFY:			
SIZE AND LOCATION OF STRUCTURAL ELEMENTS		×	
TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION		x	
SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT		x	
PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F)		×	
PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:		1	
GROUT SPACE IS CLEAN		×	
PLACEMENT OF REINFORCEMENT, CONNECTORS AND ANCHORAGES		x	
CONSTRUCTION OF MORTAR JOINTS		x	
GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS	×		
PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED	×		
COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBITTALS SHALL BE VERIFIED	,	x	

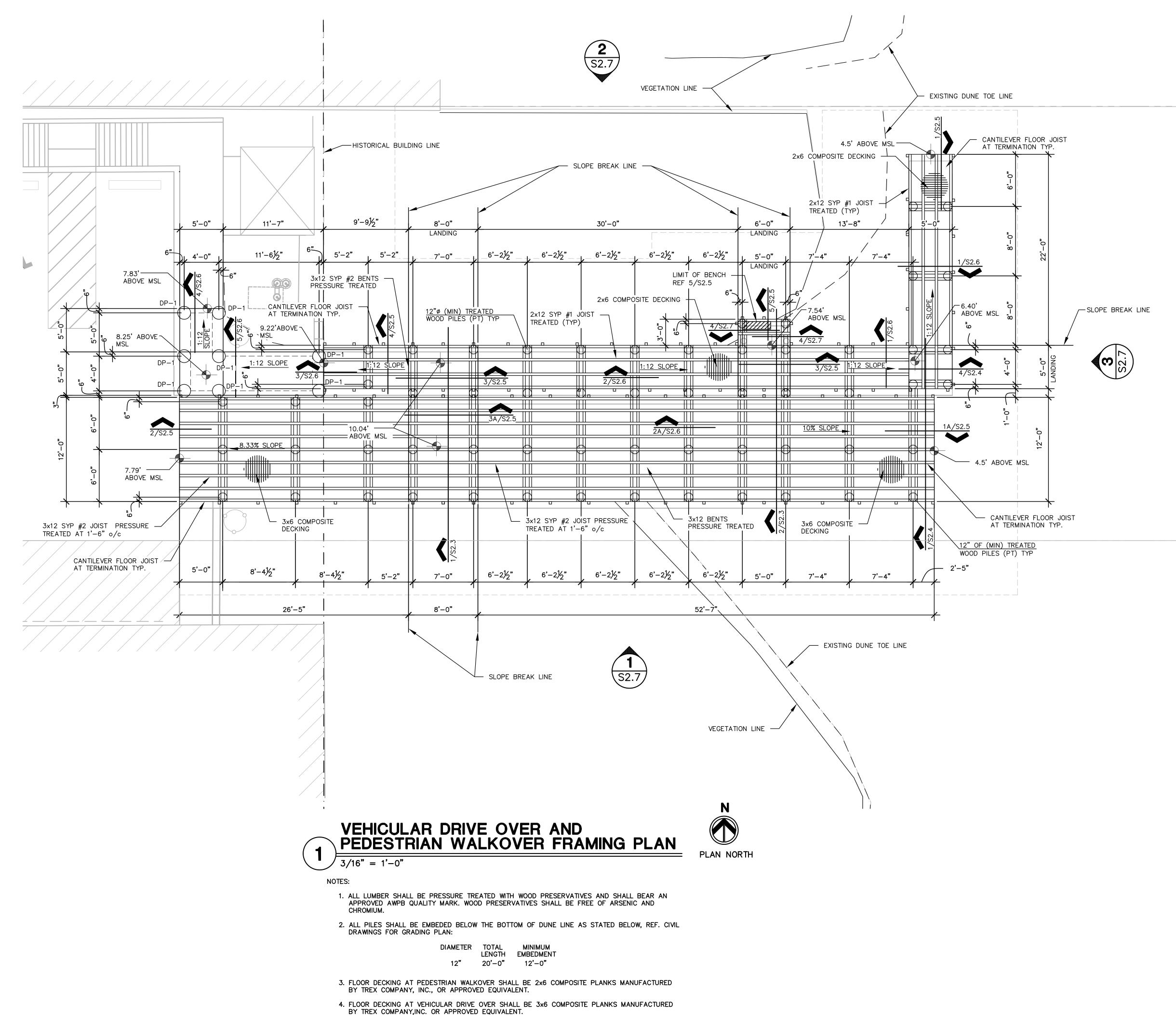
REQUIRED VERIFICATION AND INSPECTION OF ANCHORS

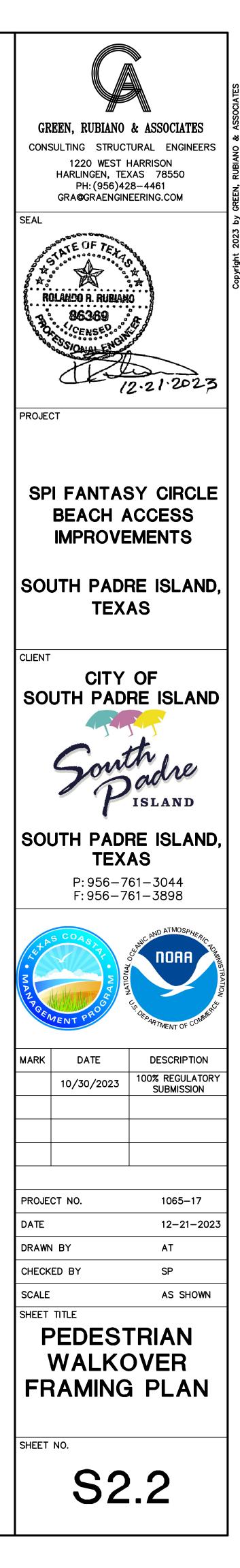
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC
CAST-IN-PLACE, POST-INSTALLED, MECHANICAL AND EPOXY SET ANCHORS: AS APPLICABLE, THE INSPECTION PROGRAM SHALL VERIFY THE ANCHOR TYPE, EMBEDMENT, TIGHTENING TORQUE, DIMENSIONS, HOLE DEPTH & DIAMETER AND CLEANOUT, EPOXY MIXING AND PLACEMENT PROCEDURES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND THE CURRENT ICC-ES EVALUATION REPORT	FREQUENCY OF INSPECTION SH ACCORDANCE CURRENT ICC- EVALUATION R PER THE SPEC INSPECTION REQUIREMENTS ANCHOR SUBS WHICHEVER IS STRINGENT	ALL BE IN WITH THE ES EPORT, OR NAL OF THE TRATE,

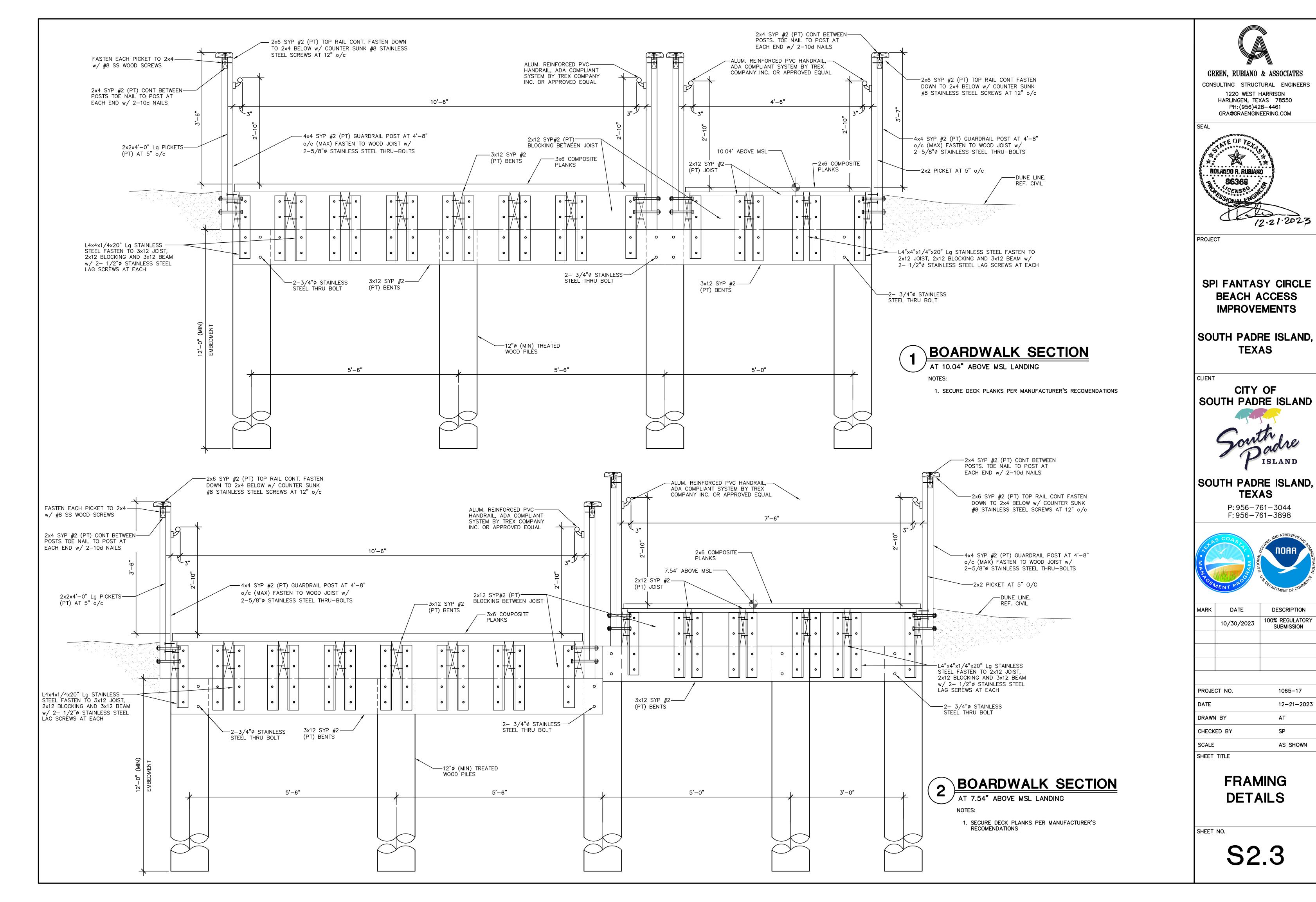
REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION

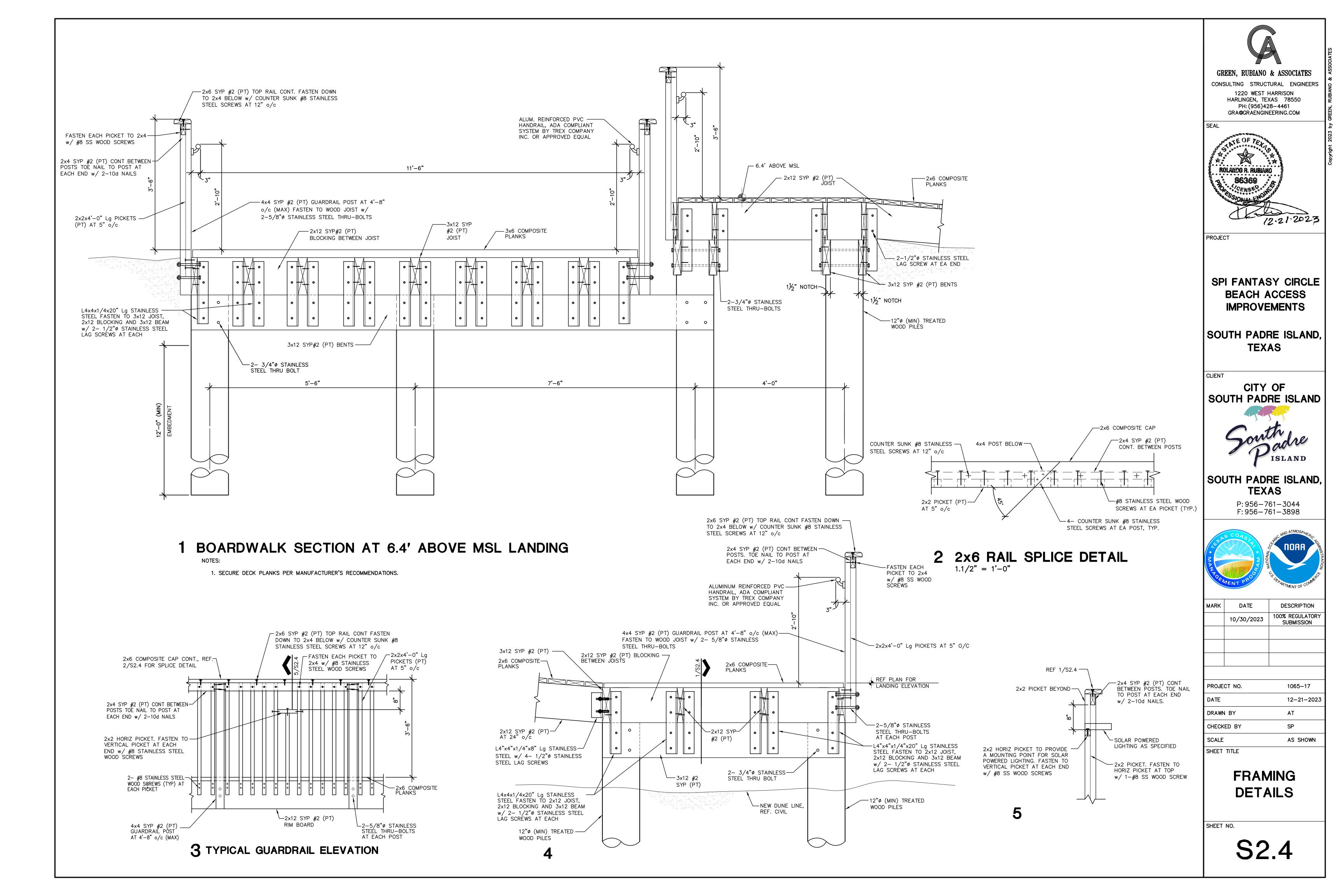
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC
MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS		х
INSPECTION OF HIGH STRENGTH BOLTING		x
INSPECTION OF WELDING:		
COMPLETE AND PARTIAL PENETRATION GROOVE WELDS	x	
MULTIPASS FILLET WELDS	x	
SINGLE-PASS FILLET WELDS		x
FLOOR AND ROOF DECK WELDS		×
INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS		x

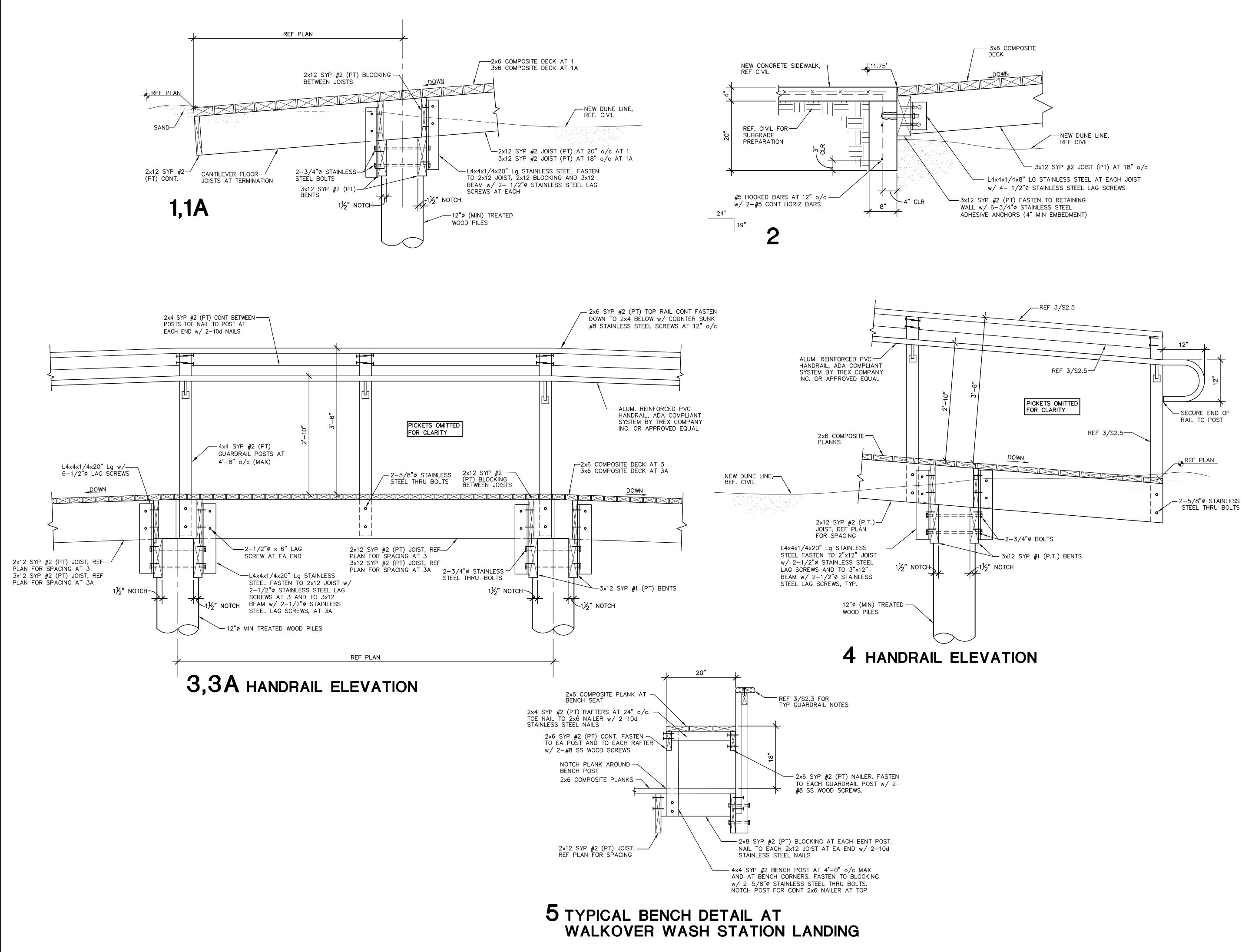




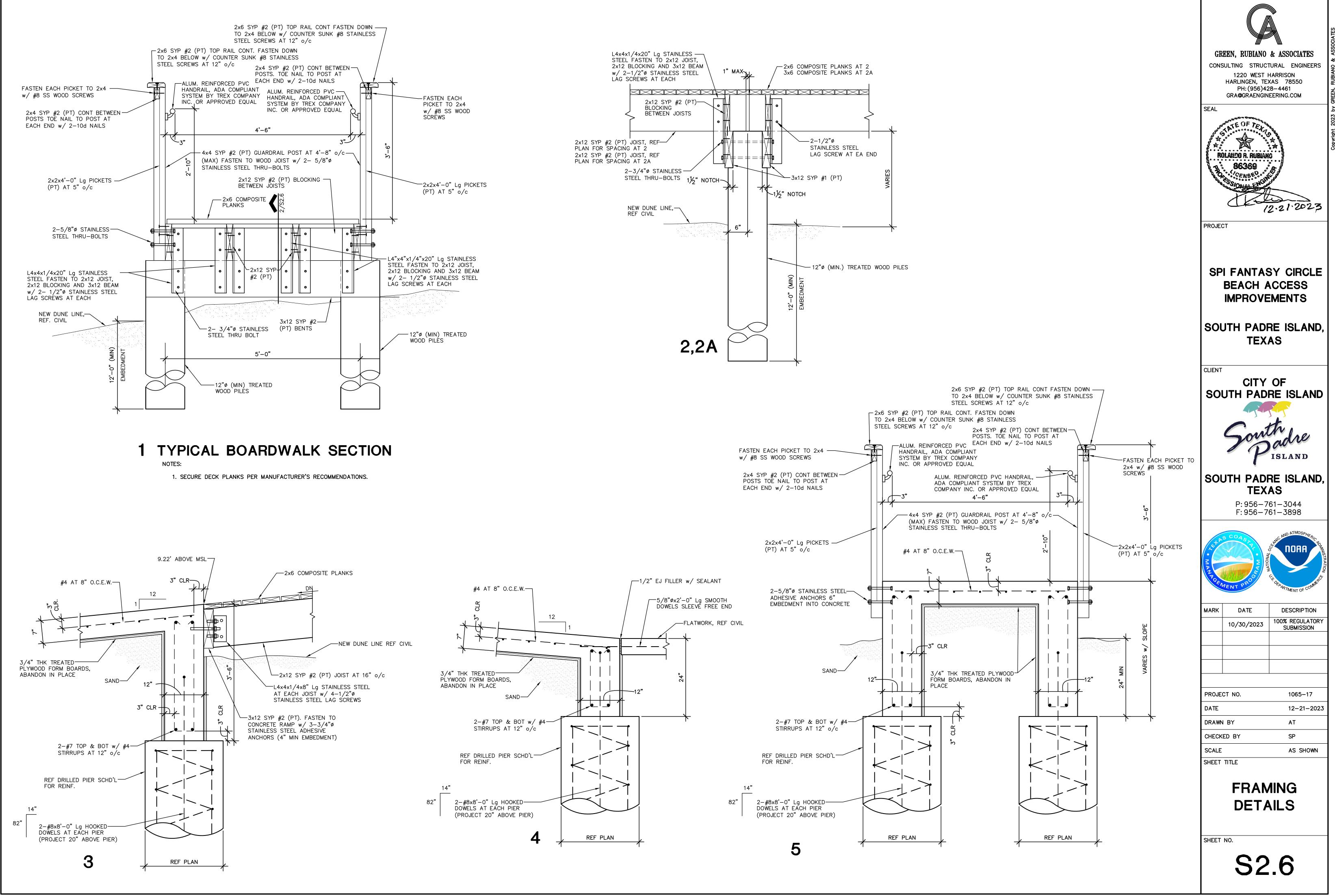


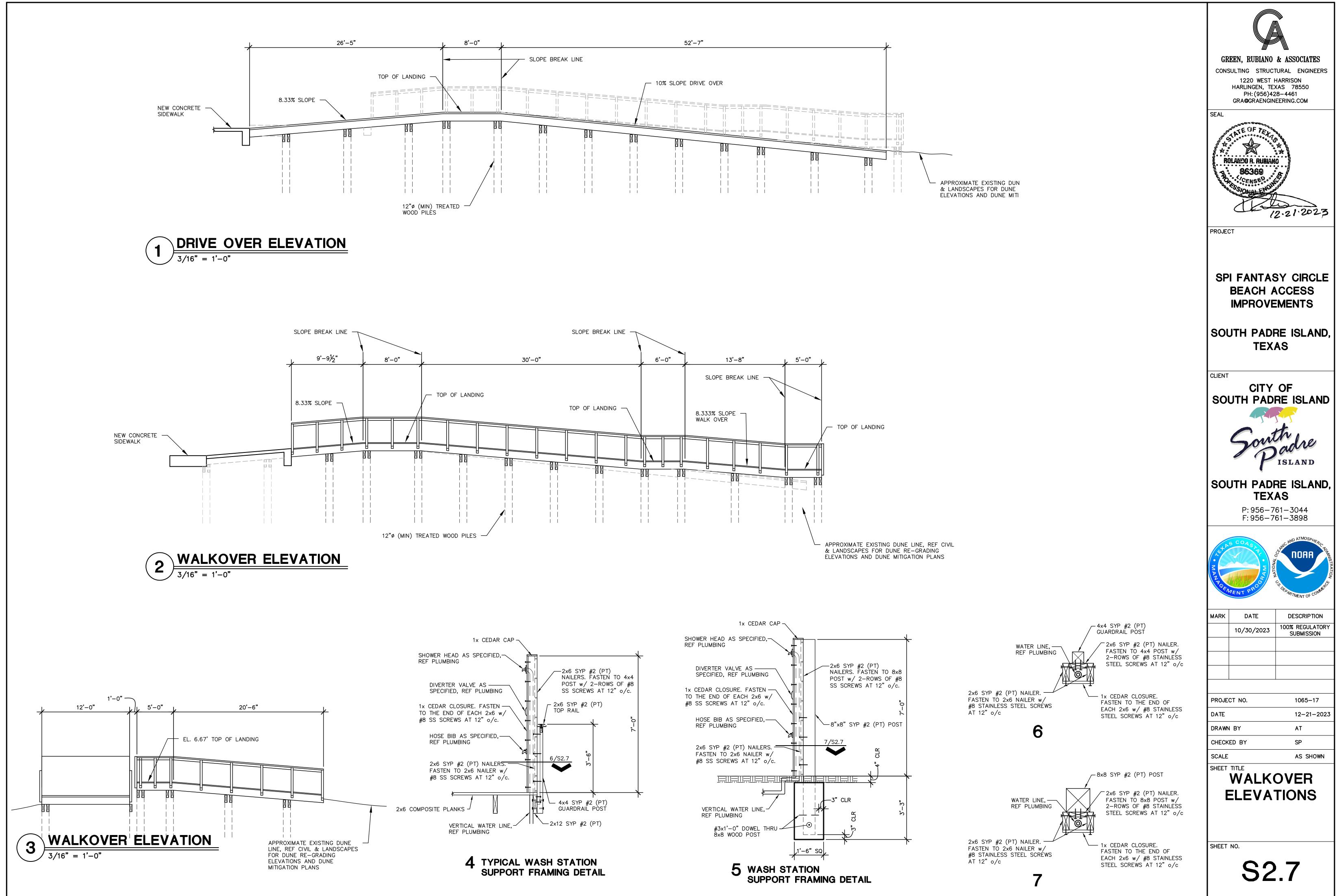






GREEN, RUBIANO & ASSOCIATES			
CONSULTING STRUCTURAL ENGINEERS			
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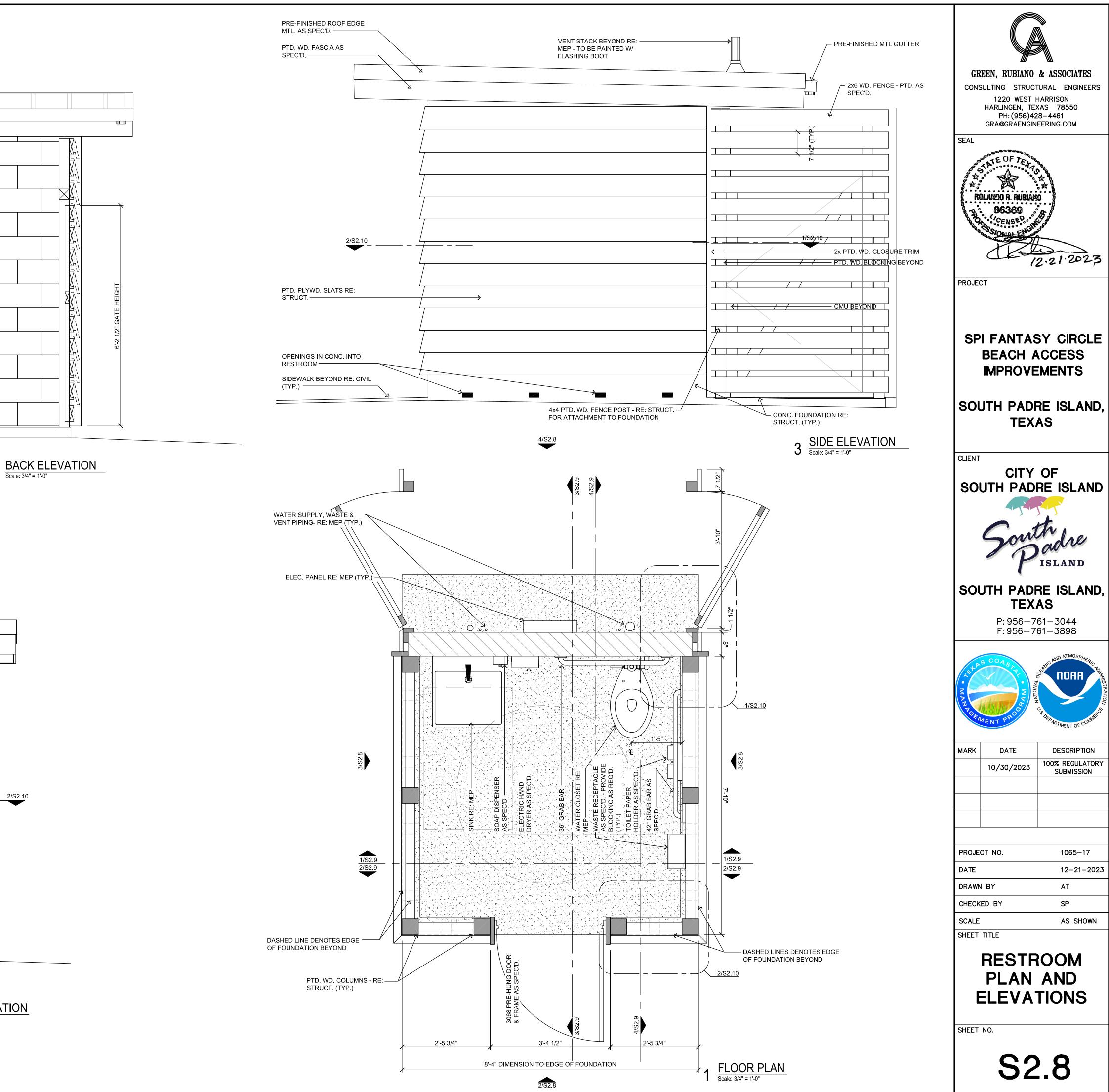


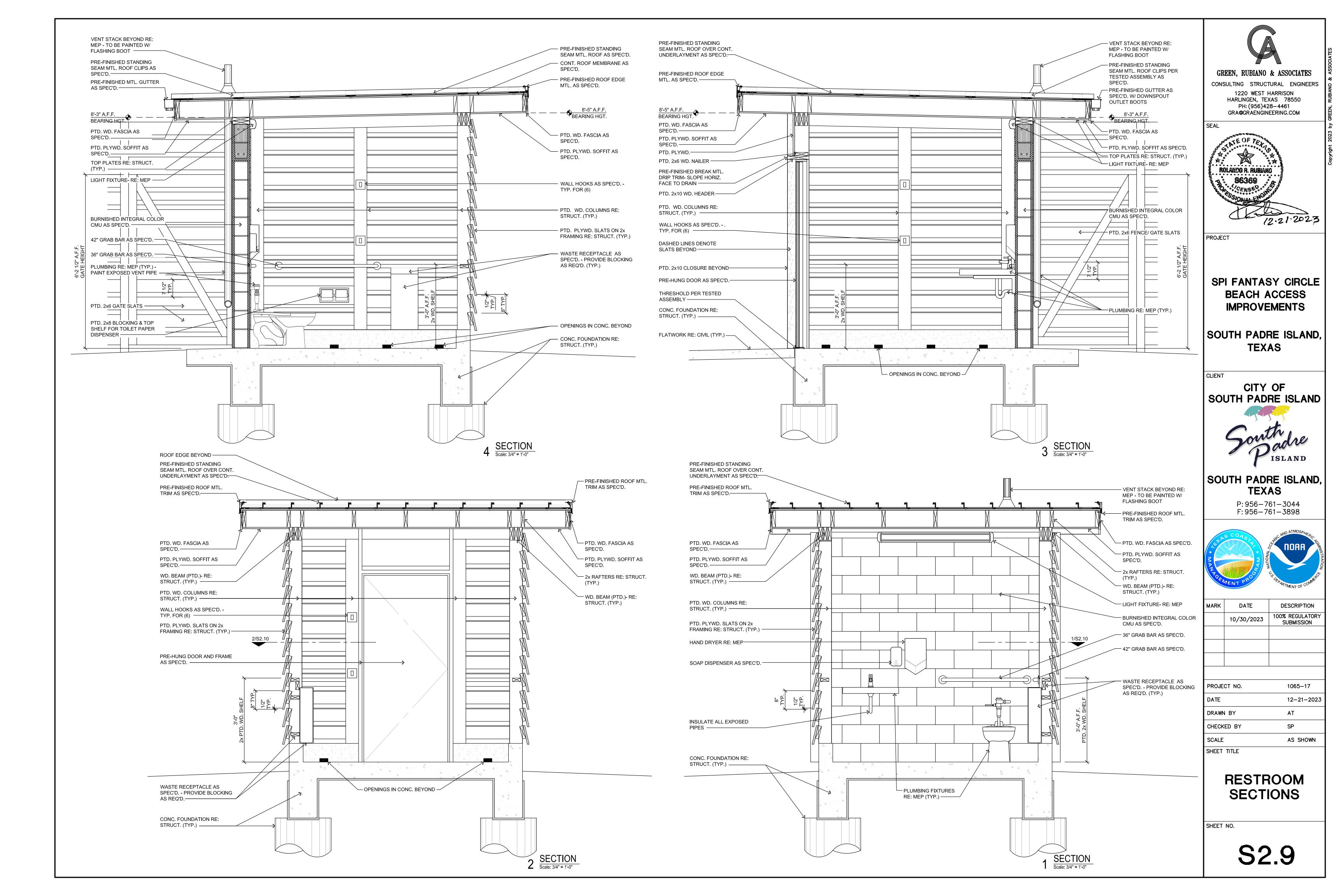
FLASHING BOOT		
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INTEGRAL COLOR BURNISH CMU BEYOND		
2x WD. CLOSURE TRIM BEYOND - PTD. AS SPEC'D.		
PTD. 2x4 GATE FRAME MEMBERS		
PTD. WD. GATES W/ LOCKABLE HASP	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	>
PTD. 2x6 WOOD SLATS @ 7 1/2" O.C		
4x4 PTD. WD. FENCE POST - RE: STRUCT. FOR ATTACHMENT TO		

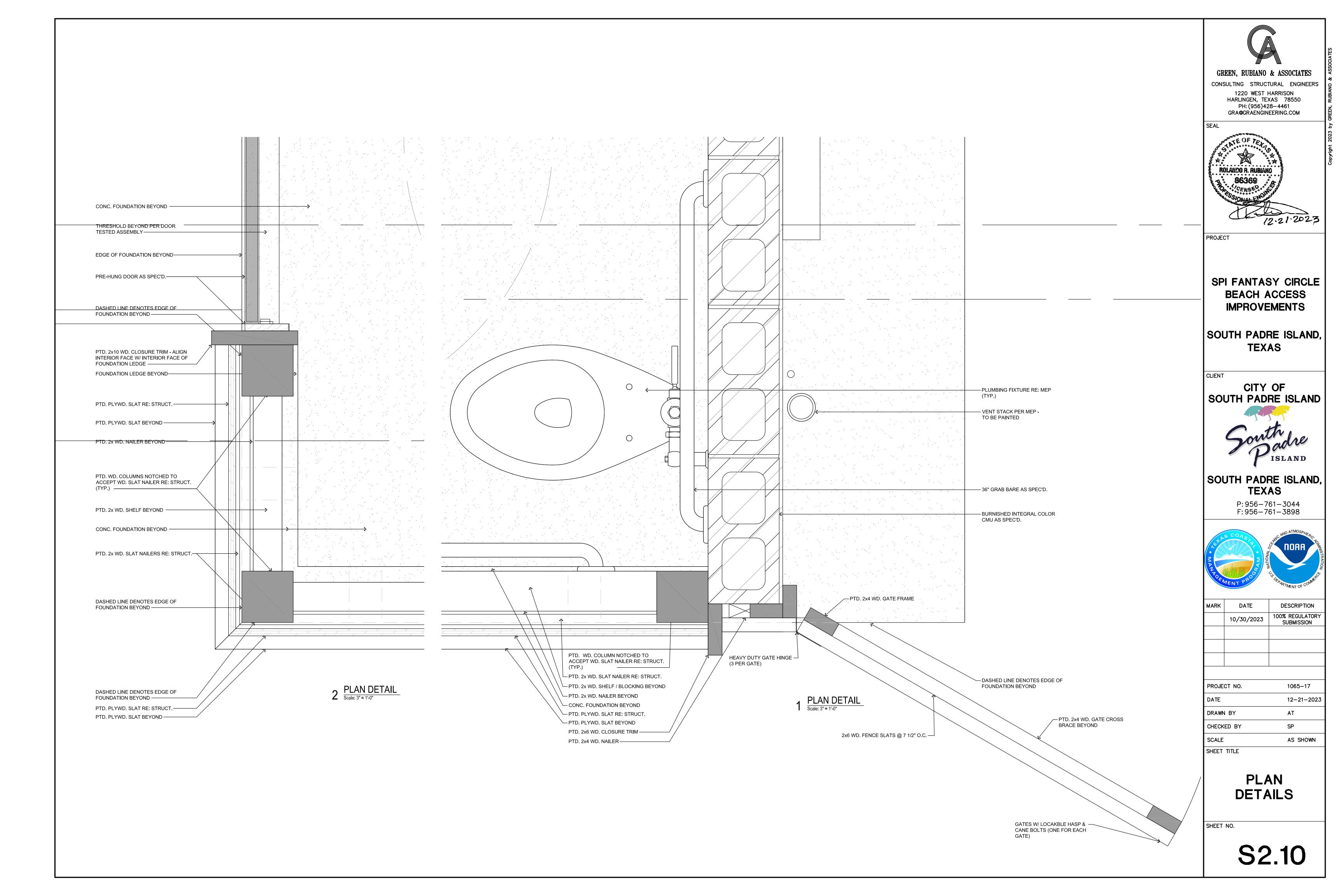
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EXPOSED BEAM- RE: STRUCT.	
TO BE PAINTED AS SPEC'D.	
PRE-FINISHED BREAK MTL.	
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PTD. 2x10 WD. FRAMING	
PRE-HUNG DOOR & FRAME AS	2/S2
SPEC'D	$ \qquad \qquad$
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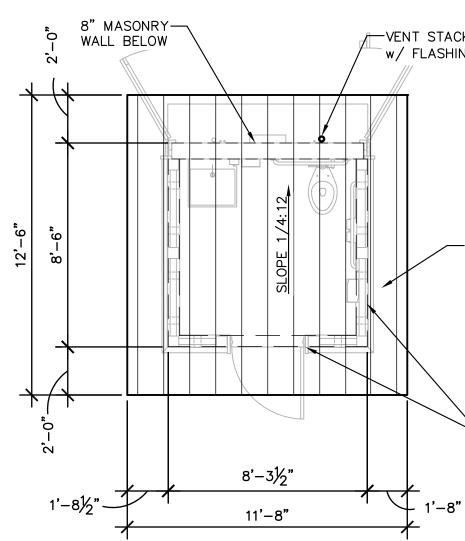
2 FRONT ELEVATION Scale: 3/4" = 1'-0"





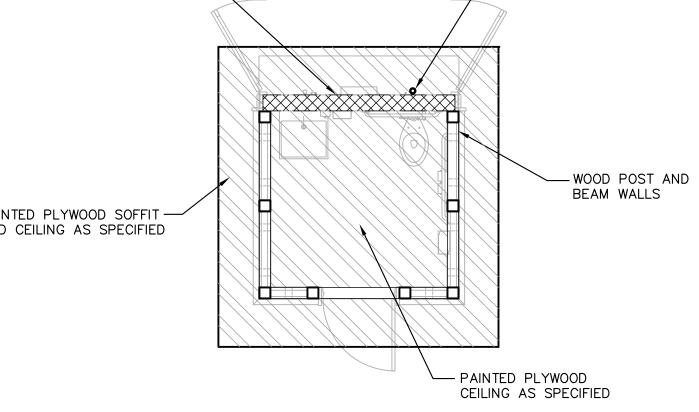






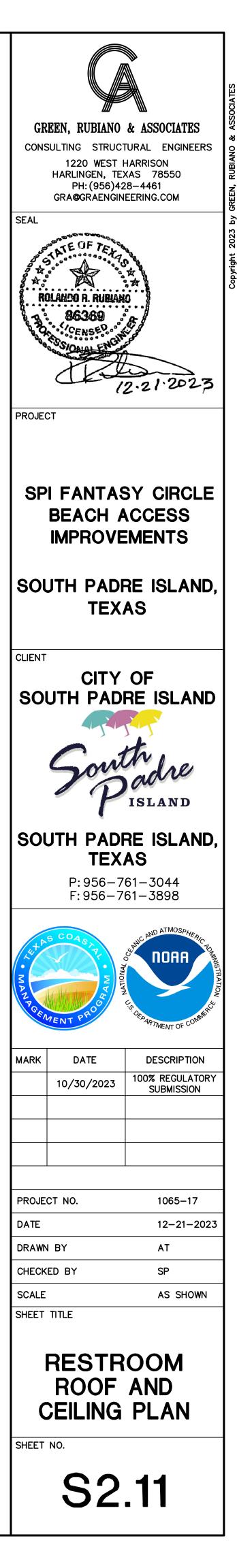
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> 8" MASONRY — WALL BELOW - METAL ROOF PANELS AS SPECIFIED



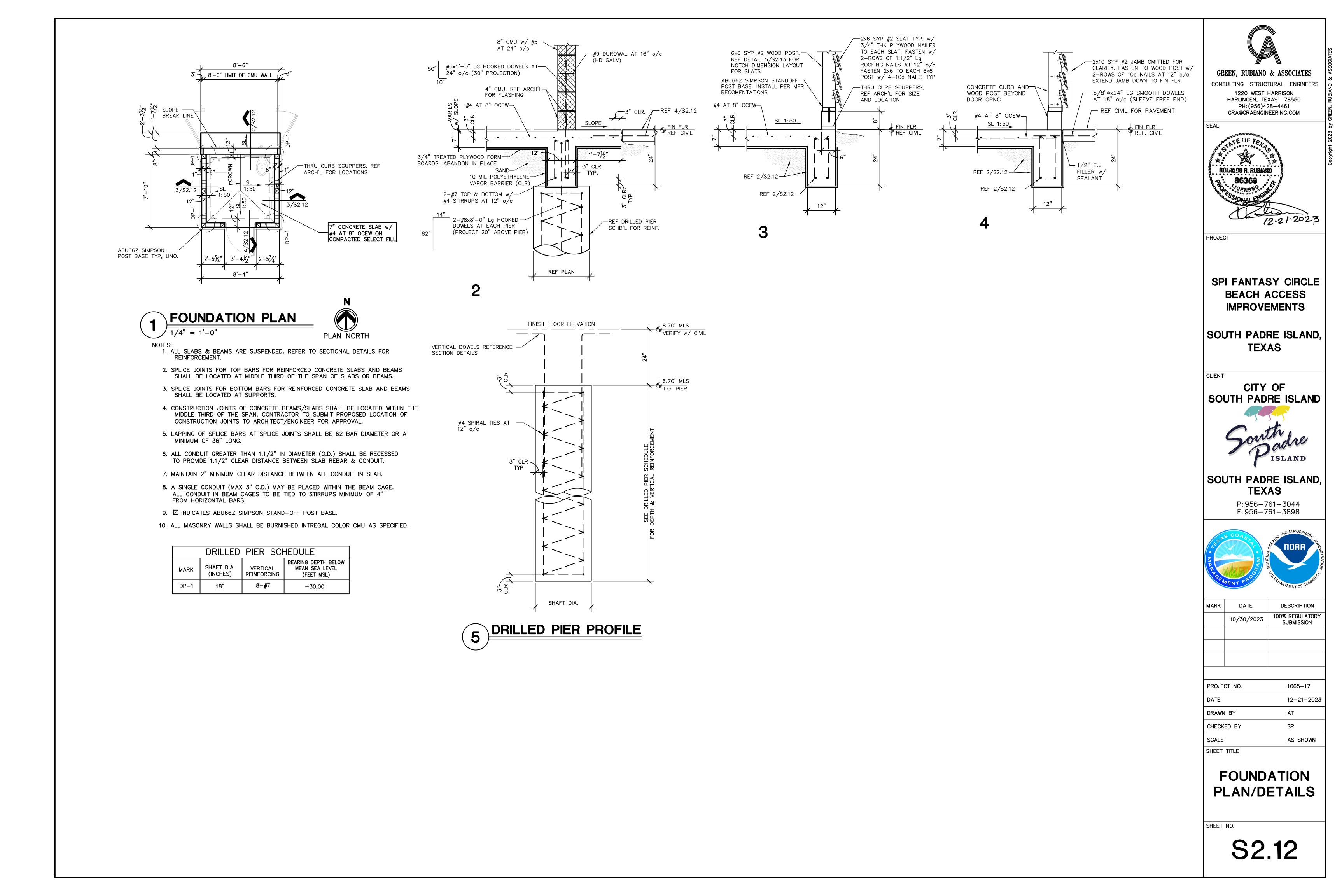


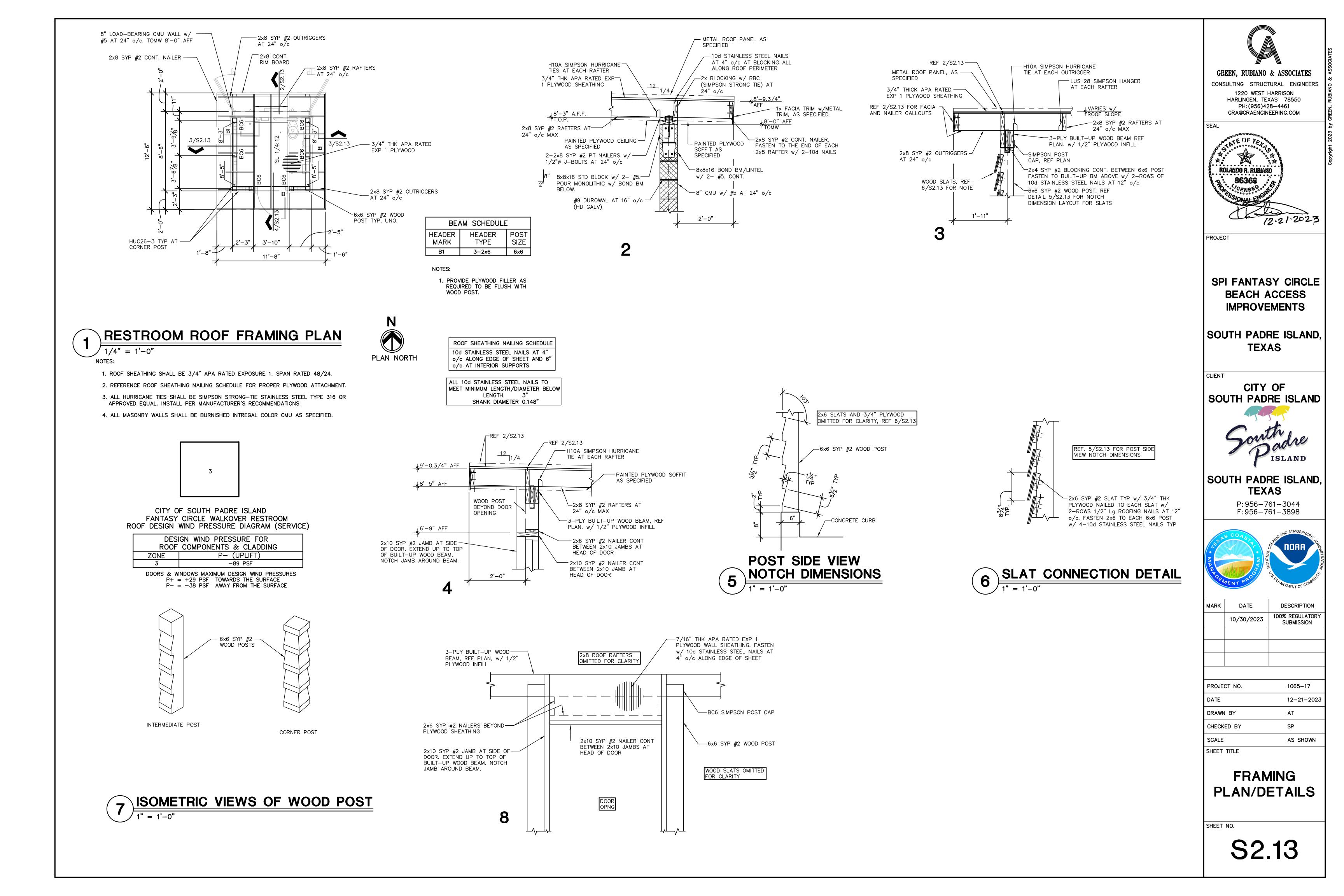




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GENERAL CONSTRUCTION NOTES:

ALL MATERIALS, WORKMANSHIP AND IMPROVEMENTS SHALL BE IN ACCORDANCE WITH ALL LOCAL CODES, INCLUDING THE STANDARD CONSTRUCTION DETAILS AND TECHNICAL SPECIFICATIONS FROM THE CITY OF SOUTH PADRE ISLAND (THE OWNER), TEXAS DEPARTMENT OF TRANSPORTATION AND ALL OTHER GOVERNING AGENCIES.

PRIOR TO BEGINNING CONSTRUCTION, THE OWNER OR THEIR AUTHORIZED REPRESENTATIVE SHALL SCHEDULE A PRE-CONSTRUCTION CONFERENCE BETWEEN THE CONSULTING ENGINEER, CONTRACTOR, CITY OF SOUTH PADRE ISLAND, LAGUNA MADRE WATER DISTRICT, AND ALL AFFECTED PARTIES.

3. PRE-CONSTRUCTION PHOTOGRAPHS SHALL BE TAKEN THAT SHOW EXISTING CONDITIONS OF THE SITE AND ADJOINING STRUCTURES TO REMAIN. PHOTOS SHALL INCLUDE DAMAGE TO FINISH SURFACES THAT MIGHT BE MISCONSTRUED AS DAMAGE CAUSED BY DEMOLITION OPERATIONS. (NO SEPARATE PAY)

THE CONTRACTOR SHALL HAVE A PERSON ON CALL 24 HOURS A DAY TO ADDRESS CONSTRUCTION AREA MAINTENANCE ITEMS, TRAFFIC CONTROL, OR OTHER NEEDS NECESSARY FOR PUBLIC SAFETY. THIS PERSON SHALL HAVE AUTHORITY TO ACT ON BEHALF OF THE CONTRACTOR IN EMERGENCY CONDITIONS. THE PERSON SHALL BE STATIONED WITHIN 1/2 HOUR TRAVEL TIME FROM THE PROJECT SITE. THE PERSON SHALL BE IDENTIFIED IN WRITING PRIOR TO START OF CONSTRUCTION. THE ON-SITE REPRESENTATIVE SHALL HAVE ACCESS ALL EQUIPMENT AND MATERIAL AND HAVE FULL AUTHORITY NECESSARY TO CORRECT ANY PROBLEMS, DEFICIENCIES, OR EMERGENCIES WHICH MAY ARISE DURING NON-WORKING HOURS AND DURING THE ABSENCE OF THE SUPERINTENDENT.

- STANDARD WORK HOURS:
- 5.1. THE STANDARD WORK HOURS FOR THE OWNER IS 8:00 AM TO 5:00 PM, MONDAY THROUGH FRIDAY. SHOULD THE CONTRACTOR ELECT TO WORK ON SATURDAY, SUNDAYS OR HOLIDAYS, HE SHALL BE RESPONSIBLE FOR PAYING OVERTIME CHARGES FOR THE OWNERS PERSONNEL INVOLVED. THESE CHARGES WILL BE AT COST AND WILL BE CALCULATED EITHER AT TIME AND A HALF OR DOUBLE TIME, AS APPLICABLE TO THE PARTICULAR DAY BEING WORKED. PRE-APPROVAL SHALL BE OBTAINED FROM THE ENGINEER OR ENGINEER'S REPRESENTATIVE BY COMPLETING AND SIGNING A OWNER'S FORM ENTITLED "CONSTRUCTION INSPECTORS OVERTIME COMPENSATION AUTHORIZATION". PRIOR TO COMMENCING ANY OVERTIME WORK.
- 5.2. ANY WORK DONE OUTSIDE THE STANDARD WORKDAY, WITHOUT PRIOR AUTHORIZATION, SHALL BE CONSIDERED UNDER UNAUTHORIZED WORK. THE CONTRACTOR IS REQUIRED TO PAY THE OVERTIME WAGES OF THE OWNER INSPECTORS THAT WORK OVERTIME MONDAYS THROUGH FRIDAYS AT TIME IN A HALF. THE CONTRACTOR IS RESPONSIBLE FOR THE OVERTIME WAGES OF THE ONWER INSPECTORS THAT WORK HOLIDAYS AT DOUBLE TIME. MINIMUM HOURS WILL BE BILLED TO CONTRACTOR FOR CALL OUTS OR FOR **INSUFFICIENT NOTICE OF TWO (2) HOURS.**

THE CONTRACTOR SHALL VERIFY ALL HORIZONTAL AND VERTICAL DIMENSIONS AND THE LOCATION OF EXISTING AND PROPOSED PROJECT ELEMENTS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES BETWEEN PLAN DIMENSIONS AND ACTUAL FIELD CONDITIONS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND OWNER. NO CONSTRUCTION ACTIVITY SHALL CONTINUE WITHOUT APPROVAL FROM THE OWNER.

ALL MATERIALS AND LABOR, WHETHER SPECIFICALLY INDICATED ON PLANS OR NOT, WHICH ARE NECESSARY FOR THE PROPER INSTALLATION AND FUNCTION OF THE SYSTEM SHALL BE FURNISHED BY THIS CONTRACTOR.

8. CONTRACTOR SHALL NOT PROCEED WITH ANY WORK INVOLVING A CHANGE IN PROJECT SCOPE, EQUIPMENT, MATERIALS OR COST WITHOUT FIRST HAVING OBTAINED ENGINEER'S AND/OR OWNER'S APPROVAL IN WRITING. IF APPROVAL HAS NOT BEEN OBTAINED IN WRITING PRIOR TO PROCEEDING WITH ANY CHANGE, CONTRACTOR WILL NOT BE REIMBURSED FOR SUCH CHANGE.

CONTRACTOR TO PLAN AND PERFORM THEIR WORK IN A MANNER THAT WILL PERMIT SAFE PUBLIC TRAFFIC MOVEMENT ON ALL STREETS.

10. THE CONTRACTOR SHALL PLAN AND SEQUENCE ALL CONSTRUCTION ACTIVITY IN SUCH A MANNER THAT WILL PERMIT SAFE PEDESTRIAN AND VEHICULAR MOVEMENT.

11. TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH TXDOT SPECIFICATIONS. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN, IN ACCORDANCE WITH SPECIFICATION 01 55 26 TRAFFIC CONTROL AND REGULATION FOR APPROVAL BY THE OWNER, PRIOR TO CONSTRUCTION. THE TRAFFIC CONTROL PLAN SHALL BE PREPARED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF TEXAS. ALL TRAFFIC CONTROL / TRAFFIC SAFETY SHALL BE IN ACCORDANCE WITH THE LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) CRITERIA.

12. CONTRACTOR SHALL PROVIDE PROTECTIVE DEVICES SUCH AS SIGNS, LIGHTS, SIGNALS, AND OTHER DEVICES, AS NEEDED FOR THE SAFETY OF THE PUBLIC AND WORKERS. (NO SEPARATE PAY)

13. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION AND SAFETY OF THE WORK SITE. WORKERS. SUBCONTRACTORS, MATERIALS AND EQUIPMENT.

14. THE DRAWINGS AND SPECIFICATIONS REPRESENT THE COMPLETED STRUCTURES/DESIGN. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES AND MEANS NECESSARY TO PROTECT PERSONS AND STRUCTURES DURING CONSTRUCTION. OBSERVATION BY THE ENGINEER OR THE OWNER DOES NOT INCLUDE REVIEW OF THESE MEASURES.

15. THESE PLANS, PREPARED BY HALFF ASSOCIATES, INC., DO NOT EXTEND TO OR INCLUDE DESIGN OF SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF HALFF ASSOCIATES, INC., REGISTERED PROFESSIONAL ENGINEER(S) HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED IN THESE PLANS. THE CONSTRUCTION CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS, INCLUDING THE PLANS AND SPECIFICATIONS REQUIRED BY THE HOUSE BILLS 662 AND 665 ENACTED BY THE TEXAS LEGISLATURE IN THE 70TH LEGISLATURE REGULAR SESSION.

16. CONTRACTOR SHALL PROVIDE A SEQUENCE OF WORK AND PERFORM ASSOCIATED GRADING THAT PROVIDES POSITIVE OUTFALLS AT ALL TIMES.

17. CONSTRUCTION STAKING AND SURVEYING SHALL BE PROVIDED BY THE CONTRACTOR AND AT CONTRACTOR'S EXPENSE. ALL DIMENSIONS ARE TO BACK OF CURB OR, WHERE NO CURB EXISTS, TO EDGE OF PAVEMENT UNLESS SHOWN OTHERWISE. ALL UTILITY DIMENSIONS AND STATIONS/COORDINATES ARE TO CENTER OF THE STRUCTURE UNLESS SHOWN OTHERWISE.

18. CONTRACTOR TO COORDINATE WITH THE OWNER ON WORK SCHEDULES, TESTING, GENERAL INSPECTION, AND OPERATION AND LOCATION OF EXISTING LINES.

19. THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING ALL CONSTRUCTION MATERIALS TESTING AND GENERAL INSPECTIONS. THE CONTRACTOR SHALL COORDINATE THROUGH THE OWNER'S DESIGNATED FIELD REPRESENTATIVE A MINIMUM OF 24-HOURS PRIOR TO TESTING OR INSPECTION. FAILURE TO BE PREPARED FOR TESTING MAY RESULT IN TRAVEL CHARGES. RE-TESTING WILL BE BORNE BY THE CONTRACTOR.

20. MATERIAL TESTING SHALL BE PROVIDED BY THE OWNER. RE-TEST TO BE AT CONTRACTOR'S EXPENSE.

21. THE CONTRACTOR SHALL INSPECT ALL MATERIALS AT DELIVERY AND NOTIFY THE OWNER OF ANY DAMAGED OR QUESTIONABLE MATERIALS. ANY DAMAGED OR QUESTIONABLE MATERIAL INSTALLED WITHOUT PRIOR INSPECTION BY THE OWNER SHALL BE REMOVED AT THE CONTRACTOR'S EXPENSE.

22. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED. (NO SEPARATE PAY)

23. THE CONTRACTOR IS ENCOURAGED TO INSPECT AND DOCUMENT THE PRE-CONSTRUCTION CONDITION OF ALL PRIVATE DRIVEWAYS, MAILBOXES, PAVEMENT AREAS, SIDEWALKS, CURB AND GUTTER, FENCES AND ALL OTHER ITEMS TO BE AFFECTED BY PROPOSED CONSTRUCTION PRIOR TO COMMENCING.

24. ANY DAMAGE TO EXISTING PAVEMENT OR EXISTING STRUCTURES SHALL BE REPAIRED TO PRE-CONSTRUCTION CONDITION OR BETTER AT CONTRACTOR'S EXPENSE. EXISTING STRUCTURES MAY INCLUDE BUT ARE NOT LIMITED TO INLETS, MANHOLES, POWER POLES, SIDEWALKS, CURB AND GUTTER, FENCES, SPRINKLER SYSTEMS, LAWNS OR PRIVATE PROPERTY IMPROVEMENTS.

25. NO TREES SHALL BE REMOVED WITHOUT PERMISSION OF THE OWNER OR ENGINEER, UNLESS OTHERWISE NOTED.

26. CONTRACTOR SHALL GIVE NOTICE TO ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS, OR PERSONS IN CHARGE OF PRIVATE AND PUBLIC UTILITIES AFFECTED BY THEIR OPERATIONS PRIOR TO COMMENCEMENT OF WORK. NOTIFY TEXAS ONE CALL FOR UTILITY LOCATIONS PRIOR TO ANY AND ALL EXCAVATIONS.

27. CONTRACTOR TO EXERCISE EXTREME CAUTION WHEN WORKING NEAR EXISTING FACILITIES AND/OR UTILITIES. ALL DAMAGE TO BE REPAIRED AT CONTRACTOR'S EXPENSE. ALL COSTS FOR INTERRUPTION OF GAS, ELECTRICAL, COMMUNICATIONS AND/OR WATER SERVICE DUE TO CONTRACTOR'S WORK SHALL BE BORNE BY THE CONTRACTOR.

28. INFORMATION ON EXISTING UTILITIES, AS SHOWN ON THESE PLANS, IS FROM BEST AVAILABLE INFORMATION OF RECORD AND SPOT FIELD LOCATIONS. ALTHOUGH EVERY EFFORT HAS BEEN MADE TO ACCURATELY DEPICT ALL UTILITIES, NOT ALL (PUBLIC AND PRIVATE) MAY BE SHOWN. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION AND LOCATION OF THESE UNDERGROUND UTILITIES AS REQUIRED AT NO SEPARATE PAY. CONTRACTOR TO COORDINATE WITH ALL UTILITY COMPANIES.

29. ALL WORK SHALL BE PERFORMED WITHIN THE OWNER'S RIGHT-OF-WAY, EASEMENTS OR ON PUBLIC-OWNED PROPERTY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN PERMISSION TO USE PRIVATE PROPERTY, IF NECESSARY, FOR THE PURPOSES OF STAGING, STOCKPILE, STORAGE OR REFUSE AREAS. THE CONTRACTOR SHALL PROVIDE WRITTEN EVIDENCE TO THE OWNER PRIOR TO USE.

30. THE CONTRACTOR SHALL NOTIFY ALL AFFECTED RESIDENTS OR BUSINESS OWNERS OF CONSTRUCTION ACTIVITY THROUGH THE USE OF BILINGUAL (ENGLISH AND SPANISH) DOOR TAGS, PAMPHLETS OR SIMILAR METHODS. ALL AFFECTED PARTIES MUST BE NOTIFIED A MINIMUM OF 48-HOURS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE A SAMPLE OF THE NOTIFICATION TO THE OWNER PRIOR TO IMPLEMENTATION.

31. CONTRACTOR TO ENSURE SAME DAY ACCESS TO ALL RESIDENCES AND BUSINESSES ADJACENT TO CONSTRUCTION.

32. THE CONTRACTOR SHALL DO ALL NECESSARY CLEARING, EXCAVATION, TRENCHING, SHORING, DE-WATERING, DEMOLITION, GRADING, BACKFILLING, ETC. TO COMPLETE THE PROJECT. ASSOCIATED COSTS SHALL BE SUBSIDIARY TO THE RESPECTIVE BID ITEMS AS IDENTIFIED IN THE CONTRACT UNLESS NOTED OTHERWISE.

33. THE CONTRACTOR SHALL PROVIDE AN EMERGENCY PLAN, IN CASE OF A LARGE RAIN EVENT OR OTHER IMPACTFUL EVENT, FOR APPROVAL BY THE OWNER PRIOR TO CONSTRUCTION. THE PLAN SHALL BE DEVELOPED. SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS. ADEQUACY AND IMPLEMENTATION OF THE PLAN IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE OWNER RESERVES THE RIGHT TO REJECT THE PLANS. (NO SEPARATE PAY)

34. ALL COMPACTION SHALL BE ACHIEVED BY MECHANICAL METHODS. NO WATER JETTING ALLOWED, UNLESS APPROVED BY THE OWNER.

35. ALL SPOIL MATERIAL AND DEBRIS SHALL BE DISPOSED OFFSITE BY THE CONTRACTOR IN A LEGAL MANNER. FURNISHING AND TRANSPORTATION OF ALL OFFSITE MATERIAL TO BE AT CONTRACTOR'S EXPENSE.

36. DEMOLITION, REMOVAL AND DISPOSAL OF ALL EXCESS CONCRETE, CURBS, RUBBLE, ETC. TO BE DONE IN A LEGAL MANNER AT CONTRACTOR'S EXPENSE.

37. THE CONTRACTOR SHALL KEEP THE CONSTRUCTION AREA AS CLEAN AS POSSIBLE. ALL ASSOCIATED DEBRIS SHALL BE COLLECTED AND PROPERLY DISPOSED OF AT THE END OF EACH WORKDAY.

38. UPON COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL RETURN THE SITE TO ORIGINAL CONTOURS UNLESS DIFFERENT FINISHED ELEVATIONS ARE SHOWN ON PLANS. CONTRACTOR TO ENSURE NO AREAS OF PONDING ARE PRESENT.

39. CONCRETE NOTES (FOR CIVIL SITE WORK): 39.1. ALL CONCRETE WORK TO BE FORMED, UNLESS OTHERWISE APPROVED. 39.2. ALL CONCRETE TO BE 3000-PSI MINIMUM AT 28 DAYS, UNLESS OTHERWISE SHOWN.

39.3. STRENGTH TO BE DETERMINED BY CYLINDER BREAK TEST.

39.6. ALL CONCRETE USED FOR CURB AND GUTTER, CONCRETE PAVEMENT, DRIVEWAYS, SIDEWALKS AND OTHER FLAT WORK SHALL CONTAIN A MINIMUM OF 1.5 POUNDS OF FIBER MESH PER CUBIC YARD.

39.7. ALL EXPOSED CONCRETE SURFACES SHALL BE TREATED WITH CURING COMPOUND RESIN BASE ASTM C 309 TYPE 2 WITH PIGMENTED TINT OF FUGITIVE DYE.

39.8. EXPANSION JOINTS WILL BE PLACED AT CURB RETURNS, INLETS AND AT THE END OF EACH POUR WITH INTERVALS NOT TO EXCEED 40 FT. JOINTS SHALL CONSIST OF 1/2" PRE-MOLDED EXPANSION JOINT MATERIAL WITH 3, 36" X 1/2" DOWELS, ONE END GREASED AND WRAPPED. CARE MUST BE TAKEN THAT DOWELS ARE STRAIGHT AND LAID PARALLEL WITH CURB AND NO CONCRETE PLUGS OR OTHER MATERIAL BE ALLOWED THROUGH THE DOWEL HOLES OR EXPANSION MATERIAL WHICH WOULD PREVENT THE JOINT FROM OPERATION AS AN EXPANSION JOINT. EXPANSION JOINT MATERIALS SHALL BE PRE-MOLDED ASPHALT IMPREGNATED EXPANSION JOINT MATERIAL CONFORMING WITH ASTM D 994 (NOT WOOD FIBER TYPE)

10-FOOT INTERVALS.

39.10. WHEN CONNECTING TO EXISTING CURB AND GUTTER, THE CONTRACTOR SHALL DRILL AND DOWEL TWO #6 X 16" TIE BARS A MINIMUM OF 6-INCHES DEEP INTO THE EXISTING CURB AND GUTTER SECTION.

40. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING ALL FIELD CHANGES AND FURNISHING A LEGIBLE SET OF "RECORD" DRAWINGS TO THE OWNER.

41. WHEN INSTALLING ANY MANUFACTURED PRODUCT, THE CONTRACTOR SHALL FOLLOW ALL MANUFACTURER'S RECOMMENDED INSTALLATION DIRECTIONS. IF ANY CONFLICTS OR DISCREPANCIES BETWEEN MANUFACTURER'S DIRECTIONS AND THE CONTRACT DOCUMENTS ARE FOUND, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING AND SHALL NOT PERFORM ANY WORK ON ANY ITEM UNTIL SUCH CONFLICT HAS BEEN RESOLVED IN WRITING.

42. INDEMNIFICATION: TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAWS AND REGULATIONS. CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS OWNER, ENGINEER, ENGINEER'S SUBCONSULTANTS AND THE OFFICERS, DIRECTORS, EMPLOYEES, AGENTS, AND OTHER CONSULTANTS OF EACH AND ANY OF THEM FROM AND AGAINST ALL CLAIMS, COSTS, LOSSES, AND DAMAGES (INCLUDING BUT NOT LIMITED TO ALL FEES AND CHARGES OR ENGINEERS, ARCHITECTS, ATTORNEYS, AND OTHER PROFESSIONALS AND ALL COURT OR ARBITRATION OR OTHER DISPUTE RESOLUTION COSTS) CAUSED BY, ARISING OUT OF, OR RESULTING FROM, THE PERFORMANCE OF THE WORK, PROVIDED THAT ANY SUCH CLAIM, COST, LOSS OR DAMAGE:

42.1. IS ATTRIBUTABLE TO BODILY INJURY, SICKNESS, DISEASE, OR DEATH, OR TO INJURY TO OR DESTRUCTION OF TANGIBLE PROPERTY (OTHER THAN THE WORK ITSELF), INCLUDING THE LOSS OF USE RESULTING THEREFROM, AND

42.2. IS CAUSED IN WHOLE OR IN PART BY ANY NEGLIGENT ACT OR OMISSION OF CONTRACTOR, ANY SUBCONTRACTOR, ANY SUPPLIER, ANY PERSON, OR ORGANIZATION DIRECTLY OR INDIRECTLY EMPLOYED BY ANY OF THEM TO PERFORM OR FURNISH ANY OF THE WORK, OR ANYONE FOR WHOSE ACTS ANY OF THEM MAY BE LIABLE, REGARDLESS OF WHETHER OR NOT CAUSED IN PART BY ANY NEGLIGENCE OR OMISSION OF A PERSON OR ENTITY INDEMNIFIED HEREUNDER OR WHETHER LIABILITY IS IMPOSED UPON SUCH INDEMNIFIED PARTY BY LAWS AND REGULATIONS REGARDLESS OF THE NEGLIGENCE OF ANY SUCH PERSON OR ENTITY. CLAIMS, COSTS, LOSSES, DAMAGES, SUITS AND CAUSES OF ACTION, AND ANY AND ALL LIABILITY, COSTS, EXPENSES, SETTLEMENTS, DAMAGES, AND JUDGMENTS INCURRED IN CONNECTION THEREWITH (INCLUDING BUT NOT LIMITED TO ALL FEES AND CHARGES OF ENGINEERS, ARCHITECTS, ATTORNEYS, AND OTHER PROFESSIONALS, AND ALL COURT OR ARBITRATION OR OTHER DISPUTES RESOLUTION COSTS) WHETHER ARISING IN EQUITY, AT COMMON LAW, OR BY STATUTE, INCLUDING THE TEXAS DECEPTIVE TRADE PRACTICES ACTOR SIMILAR STATUTE OF OTHER JURISDICTIONS, OR UNDER THE LAW OF CONTRACTS, TORTS (INCLUDING WITHOUT LIMITATION, NEGLIGENCE AND STRICT LIABILITY WITHOUT REGARD TO FAULT) OR PROPERTY, OF EVERY KIND OR CHARACTER

39.4. ALL REINFORCING STEEL TO BE ASTM A-615, GRADE 60, UNLESS OTHERWISE SHOWN.

39.5. ALL EXPOSED CONCRETE WORK TO BE CHAMFERED.

39.9. CONTRACTION (DUMMY, SAWED OR GROVED) JOINTS SHALL BE 2" DEEP AND PLACED AT MAXIMUM OF

42.3. IS CAUSED IN WHOLE OR IN PART BY ANY NEGLIGENT ACT OR OMISSION, OTHER FAULT, BREACH OF CONTRACT OR WARRANTY, VIOLATION OF THE TEXAS DECEPTIVE TRADE PRACTICES ACT, OR STRICT LIABILITY WITHOUT REGARD TO FAULT OF CONTRACTOR. REGARDLESS OF WHETHER OR NOT CAUSED IN PART BY ANY NEGLIGENCE OR OMISSION, OTHER FAULT, BREACH OF CONTRACT OR WARRANTY, VIOLATION OF THE TEXAS DECEPTIVE TRADE PRACTICES ACT, OR STRICT LIABILITY WITHOUT REGARD TO FAULT OF A PERSON OR ENTITY INDEMNIFIED HEREUNDER.

CONTRACTOR'S OBLIGATIONS OF INDEMNIFICATION UNDER THIS PARAGRAPH SHALL NOT BE LIMITED BY THE AMOUNT OF ANY INSURANCE.

UTILITY NOTES:

1. THE TYPE, SIZE AND LOCATION OF ALL UNDERGROUND UTILITIES DEPICTED ON THE CONSTRUCTION PLANS WERE RESEARCHED WITH RESPECT TO THE BEST AVAILABLE DATA AND THEREFORE SHOWN APPROXIMATE. ALTHOUGH EVERY EFFORT HAS BEEN MADE TO ACCURATELY DEPICT ALL UTILITIES, NOT ALL (PUBLIC AND PRIVATE) MAY BE SHOWN. NEITHER THE ENGINEER NOR THE OWNER IS RESPONSIBLE FOR THE ACCURACY OF THE LOCATION OF THE UTILITIES SHOWN ON THE CONSTRUCTION PLANS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL UTILITY COMPANIES WITH JURISDICTION WITHIN THE LIMITS OF CONSTRUCTION FOR FIELD VERIFICATION AT NO ADDITIONAL EXPENSE TO THE OWNER. UTILITY COMPANIES TO INCLUDE BUT NOT LIMITED TO THE FOLLOWING:

- 1.1. SOUTH PADRE ISLAND PUBLIC WORKS DEPT. (956) 761-8159
- 1.2. CITY (HALL) OF SOUTH PADRE ISLAND (956) 761-6456
- 1.3. LAGUNA MADRE WATER DISTRICT OFFICE (956) 943-2626
- 1.4. LAGUNA MADRE WATER DISTRICT EMERGENCIES AFTER HOURS (956) 572-1716
- 1.5. TXDOT BROWNSVILLE OFFICE (956) 542-2260
- 1.6. TEXAS 811
- 1.7. TEXAS GAS SERVICE (800) 700-2443
- 1.8. SPECTRUM/TIME WARNER CABLE/AT&T/VERIZON/CHARTER COMMUNICATIONS/FRONTIER COMMUNICATIONS
- 1.9. AMERICAN ELECTRIC AND POWER (AEP) TEXAS/MAGIC VALLEY ELECTRICAL COOPERATIVE

2. CONTRACTOR SHALL EXPOSE ANY EXISTING UTILITY THAT MAY BE IN CONFLICT PRIOR TO COMMENCING CONSTRUCTION AND EXCAVATION.

3. THE CONTRACTOR SHALL NOTIFY ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS, OR PERSONS RESPONSIBLE FOR PUBLIC AND PRIVATE UTILITIES AFFECTED BY HIS/HER OPERATIONS PRIOR TO COMMENCING CONSTRUCTION.

4. CONTRACTOR SHALL AT ALL TIMES ALLOW ACCESS TO EXISTING DRIVEWAY OR PROVIDE/MAINTAIN ALTERNATIVE ALL-WEATHER ROUTES.

5. IN ACCORDANCE WITH HOUSE BILLS 662 AND 665 ENACTED BY THE TEXAS LEGISLATURE (70TH REGULAR LEGISLATIVE SESSION), THE CONTRACTOR SHALL MEET THE REQUIREMENTS FOR TRENCH SAFETY AS OUTLINED IN THE CURRENT VERSION OF THE UNITED STATES DEPARTMENT OF LABOR. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS, 29 CFR, PART 1926, SUBPART P-EXCAVATIONS.

6. PRIOR TO COMMENCING ANY EXCAVATION, THE CONTRACTOR SHALL PROVIDE A TRENCH SAFETY PLAN. ALL PLANS SHALL BE PREPARED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF TEXAS. THE PLAN SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL

IN THE EVENT CONDITIONS ENCOUNTERED IN THE FIELD REQUIRE TRENCH SAFETY SYSTEMS OUTSIDE OF THE EXTENTS SUGGESTED TRENCH PROTECTION SHOWN ON THE CONSTRUCTION PLANS, ALL EXCAVATION SHALL CEASE AND THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING A REVISED TRENCH SAFETY PLAN. NO EXCAVATION SHALL RESUME UNTIL THE REVISED TRENCH SAFETY PLAN HAS BEEN APPROVED. (NO SEPARATE PAY)

8. THE CONTRACTOR SHALL ENSURE APPROVED TRENCH SAFETY PLANS ARE IMPLEMENTED. FAILURE TO ADHERE TO THE TRENCH SAFETY PLAN WILL RESULT IN A STOP WORK ORDER. NON-COMPLIANCE INCIDENTS MAY BE REPORTED TO OSHA.

9. TRENCHES OR EXCAVATIONS MAY NOT BE LEFT OPEN OVERNIGHT UNLESS AUTHORIZED IN WRITING BY THE OWNER. IN CASES WHERE TRENCHES ARE LEFT OPEN, THE CONTRACTOR MUST PROVIDE TRAFFIC-RATED, ANCHORED STEEL PLATE COVERS APPROVED BY THE OWNER.

10. CONTRACTOR SHALL PROTECT AND SUSPEND ALL EXISTING UTILITIES TO REMAIN.

11. ALL UTILITIES SHALL REMAIN IN SERVICE AT ALL TIMES. THE PROTECTION, TEMPORARY BYPASS PUMPING, ETC. OF ALL UTILITY LINES SHALL BE INCIDENTAL TO THE INSTALLATION OF THE PROPOSE UTILITIES. CONTRACTOR SHALL COORDINATE WITH UTILITY OWNERS.

12. ALL CONSTRUCTION OPERATIONS TO BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE REGULATIONS OF THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION. COPIES OF OSHA STANDARDS MAY BE PURCHASED FROM THE U.S. GOVERNMENT PRINTING OFFICE.

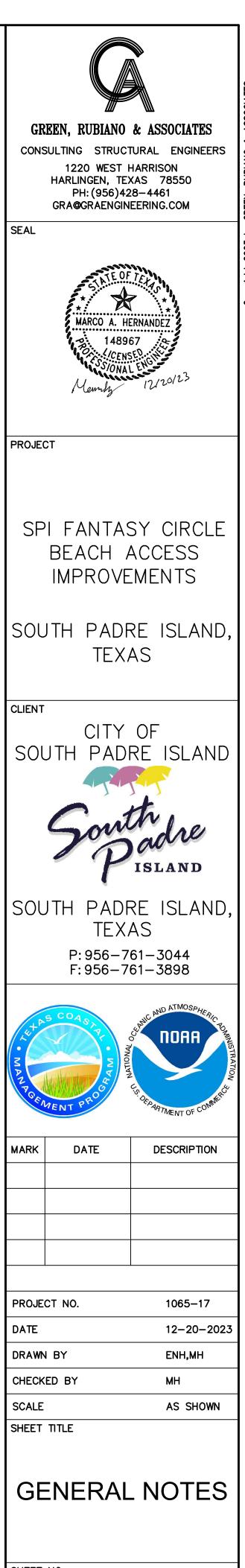
13. ELECTRICAL LINES ARE LOCATED IN THE PROJECT AREA. THE ATTENTION OF THE CONTRACTOR IS DIRECTED TO STATE LAW (VERNON'S ANNOTATED TEXAS STATUTES, ARTICLE 1436 (C)) CONCERNING CONSTRUCTION OPERATIONS IN THE VICINITY OF ELECTRICAL LINES AND THE NEED FOR EFFECTIVE PRECAUTIONARY MEASURES.

14. ANY CHANGES OR REVISIONS TO THE UTILITY DESIGN MUST FIRST BE SUBMITTED TO THE LAGUNA MADRE WATER DISTRICT FOR REVIEW AND WRITTEN APPROVAL.

15. THE CONTRACTOR SHALL GIVE THE LAGUNA MADRE WATER DISTRICT 24 HOUR ADVANCE NOTICE PRIOR TO PLACEMENT OF ANY CONCRETE, TO PERMIT THE REVIEW OF FORMS. REINFORCING STEEL PLACEMENT, AND OTHER PREPARATIONS.



HALFF PROJECT NO. (AVO): 53856.001



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1 CONTRACTOR SHALL FOLLOW STANDARD BLUES OF WATER INER INSTALLATIONS. TO INCLUE PREPANG WATERLINE FOR POROSTATIC TESTING TASE TERROLOGICAL SAMPLE COLLECTION, AND A FLUSHING POINT AS NEEDED. AND SEDMENT CONTRACT 1 CONTRACTOR WILL BE RESONANCE TO RESORDER AREA TO ORIGINAL CONDITIONS OR BETTER AS NEEDED. 9. ALL CONSTRUCTION TO RESOLUTION WILL BE RESONANCE TO RESORDER AREA TO ORIGINAL CONDITIONS OR BETTER AS ONLY UPON FINAL PROJECT 9. ALL EPOSITION AND SEDMENT CONTRACT 1 CONTRACTOR WILL BE RESONANCE TO RESORDER AREA TO ORIGINAL CONDITIONS OR BETTER AS ONLY UPON FINAL PROJECT 9. ALL EPOSITION ONLY UPON FINAL PROJECT 1 CONTRACTOR WILL BE RESONANCE TO RESORDER AREA TO ORIGINAL CONDITIONS OR BETTER AS ONLY UPON FINAL PROJECT 10. PERMANENT STABILT 1 CONTRACTOR WILL BE RESONANCE. TO RESORD TO LEARACE, FAULURE TO INTROL MANY AND ALL PROJECT 10. DIST CONTRACT 1 CONTRACTOR WILL BE RESONANCE. TO RESOLVE TO WITRE FILL 11. DUST CONTRACT 2 CONTRACTOR WILL BE RESONANCE. TO RESOLVE AND SUBMIT TF OR TESTING INCOMPANY AND ALL TYPE OF WORK CONTRACTOR ON DO NELVE TESTING INCOMPANY AND ALL TYPE OF WORK CONTRACTOR ON DO NELVEST FIELD AND REQUIRES AS TAP. 12. TRACRED DEBRIS SH AND SEDMENT OF THE MANY APPLY. IF LINE EXTENSION REQUIRES AS TAP. 13. ALL DISCHARGES AS AND SEDMENT OF THE MANY APPLY. IF LINE EXTENSION REQUIRES AS TAP. 14. ORIGINAL TO STANDART FIELE AND THE MANY AND ALL TYPE OF WORK CONTRACTOR ON DO NE DESTINGT WILL PROVIDE SWATER SERVICES TO PORT IBABEL, SOUTH PARE B) BACTERIOLOGICAL SAMPLE (MASSING SAMPLE) </td <td>CONNECTIONS WHERE ONE EXISTS, TO INCLUDE TAPPING SADDLE, CORPORATION STOP WITH CUT-OFF VALVE, MUNICIPEX TUBBING AND ANGLE VALVE WITH CUT-OFF. CONTRACTOR WILL ALSO PREP NEW WATERLINE TO</td> <td>OF THEIR INTENDED USE.</td>	CONNECTIONS WHERE ONE EXISTS, TO INCLUDE TAPPING SADDLE, CORPORATION STOP WITH CUT-OFF VALVE, MUNICIPEX TUBBING AND ANGLE VALVE WITH CUT-OFF. CONTRACTOR WILL ALSO PREP NEW WATERLINE TO	OF THEIR INTENDED USE.
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1 CONTRACTOR WILL BE RESPONSIBLE TO RESTORE AREAS TO ORIGINAL CONDITIONS OR BETTER AS DISTUBBING ACTIVITY AND NEQUIRED BY CITY/YOWN AND STATE CODES/ORD/NACES. 2 CONTRACTOR WILL BE RESPONSIBLE TO DEFECTIVE A HYDRO STATIC TEST (PRESSURE TEST) ON NEWLY INSTALLED LINE. USING THERE, OWN EQUIPMENT, LINWO PERSONREL MUST BE PRESENT TO WITKESS TEST FROM BEGINNING TO THE MATERILINE IS COMPLETE AND LINE CAN BE PLACED INTO SERVICE, A REQUIRED BY CEQ. 10. PERMANENT STABIL WITERING ROT WILL BE ACTERIOLOGICAL SAMPLE AND BUBMIT IT FOR TESTING, IF TESTI IS NEGATIVE AN INSPECTION OF THE WATERLINE IS COMPLETE AND LINE CAN BE PLACED INTO SERVICE, AS REQUIRED BY CEQ. 11. DUST CONTROL SHAL MAY CONSIGN OF WATERING SHEEDED. 14. OFF-SITE TAP FEES MAY APPLY, IF LINE EXTENSION REQUIRES A 6" TAP. 12. TRACKED DEBRIS SH IS. LINWD WILL SUBMIT TX-DOT PERMITS AS NEEDED. 14. CONCRETE WATERLINE IS CONTRACTOR WILL BE RESPONSIBLE FOR ANY AND ALL TYPE OF INFORMED TO DID AN EXISTING LINE AT THEM, DATE OF NEWLY INSTALLED WATERLINE WILL DE WHEN IT IS PLACED INTO SERVICE. 14. CONCRETE WASENING INTO SERVICE. 15. SECOND SERVICE. 14. CONCRETE WASENING INTO SERVICE. 14. CONCRETE WASENING INTO SERVICE.		CONTAINERS, DUMPSTERS, AND SEDIMENT CONTROLS.
12. CONTRACTOR WILL BE RESPOnsible TO PERTORMA ATTACKSTATIC TEST (DAR NEXU: STALLED TUR, USING THERE, USING DEPERTOR A THOURS ZERO TO CLEVENACE), FALURE TO MANTAIN 11. DUST CONTROL SHALL MAY CONSIST OF WATERIN WATERING OWN EQUIPMENT LIMP DEFISION REQUIRES AND TO CLEVENACE), FALURE TO MANTAIN 13. LIMPO WILL COLLECT THE BACTERIOLOGICAL SAMPLE AND SUBMIT TO RETESTING IF TEST IS REGATIVE. AN INSPECTION OF THE WATERILINE IS COMPLETE AND LINE CAN BE PLACED INTO SERVICE. AS REQUIRED BY TCEO. 12. TRACKED DEBRIS SH VATERING OR OTHER MET SCHEDULE. 14. OFF-SITE TAP FEES MAY APPLY, IF LINE EXTENSION REQUIRES A 5 TAP. 13. ALL DISCHARGES ASS AND SEDMENT CONTROL. 13. ALL DISCHARGES ASS AND SEDMENT CONTROL. 15. LIMPO WILL SUBMIT TX-DOT PERMITS AS NEEDED. 14. OFF-SITE TAP FEES MAY APPLY, IF LINE EXTENSION REQUIRES A 5 TAP. 13. ALL DISCHARGES ASS AND SEDMENT CONTROL. 16. GC WILL SUBMIT TX-DOT PERMITS, CONTRACTOR WILL BIER SEPONSIBLE FOR ANY AND ALL PERMITS, PERCED TO SERVICE. 14. CONCRETE WASHWA RECEIVING STREAM A.LW ERCONDON STREAM ALL WASHWANT ON NEWLY INSTALLED LINES. TO INCLUDE ANY AND ALL PERMITS, PERCED TO SERVICE. 14. CONCRETE WASHWA RECEIVING STREAM A.LW ERCONDON STREAM ALL WASHWANT STREAM D.LWANT FEES THAT MAY APPLY WITH THE ELIMPLAND STREAM ALL WASHWANT STREAM D.LWANT FEES THAT MAY APPLY WITH THE ELIMPLAND STREAM ALL WASHWANT STREAM D.LWANT FEES THAT MAY APPLY WITH THE ELIMPLAND STREAM ALL WASHWANT STREAM D.LWANT MATTAN THE REAMENT STOLED WATERING WASTA, AND LAGUMA REGISTS. 14. CONCRETE WASHWANT RECEIVING STREAM ALL WASHWANT STREAM ALL WASHWANT STREAM ALL WASHWANT STREAM ALL WASHWANT STREAM ALL WASHWANT ANY TREE DEPLANDS. 15. SEDMENT AND THE STAN STREAM ALL WASHWANT STREAM ALL WASHWANT STREAM ALL WASHWANT ST		9. ALL EROSION AND SE DISTURBING ACTIVITY AND ONLY UPON FINAL PROJECT
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13. LIMUU WILL COLLECT THE WATER HOLD DECAN AND SUBMIT THOR TESTING. F TEST IS NEAR THY, AND THE ART THE AND THE CAN THE AND LINE CAN BE PLACED INTO SERVICE. AS REQUIRED BY TOEO. 12. TRACKED DEBRIS SM 14. OFF-SITE TAP FEES MAY APPLY, IF LINE EXTENSION REQUIRES A 5'TAP. 13. ALL DISCHARGES ASS AND SUBMIT TA: DOT PERMITS AS NEEDED. 14. ONE OFF-SITE TAP FEES MAY APPLY, IF LINE EXTENSION REQUIRES A 5'TAP. 13. ALL DISCHARGES ASS AND SUBMIT TA: DOT PERMITS AS NEEDED. 14. OCNCRETE WARRANTY ON NEWLY INSTALLED LINES, TO INCLUDE ANY AND ALL TYPE OF WORK CONTRACTOR DID ON EXISTING LINE AT THE-IN. DATE OF NEWLY INSTALLED WATER LINE WILL BE WHEN IT IS PERMIT FEES, ADDIMENT ON THE SMORT AND ALL PERMITS, PERMIT FEES, ADDIMINISTRATIVE FEES, MATER FEES, AND ANY FEES THAT MAY APPLY WITH THE WATER INCLUDERANG ON ET TEXT. INWO PROVIDES WATER SERVICES TO PORT ISABEL, SOUTH PADRE SUMMERTS ON OR THE-IN. LINKO PROVIDES WATER SERVICES TO PORT ISABEL, SOUTH PADRE SERVICES TO PORT ISABEL, SOUTH PADRE SUMMERT SERVICES TO PORT ISABEL, SOUTH PADRE SOUTH SERVICES CONTRACTOR INSTALLING/UPGRADING LINES WILL SIGN OFF ON: 16. STAGING, STOCKPILE 18. CONTRACTOR INSTALLING/UPGRADING LINES WILL SIGN OFF ON: 11. UTILITY BONDS: COPY 12. UTILITY BONDS: COPY 19. LAGUNA WADRE WATER DISTRICT WILL PROVIDE SIGN OFF SHEET ON ALL ITEMS REQUESTED. 11. UTILITY BONDS: COPY 12. WARRANTY: 1 YEAR F 19.	PRESSURE, IS A FAILED TEST.	11. DUST CONTROL SHAL MAY CONSIST OF WATERING WATERING OR OTHER METH SCHEDULE
15. LIMPO WILL SUBMIT TX:DOT PERMITS AS NEEDED. 13. ALL DISCHARGES ASS 15. LIMPO WILL SUBMIT A 1 YEAR WARRANTY ON NEWL? INSTALLED LINES, TO INCLUDE ANY AND ALL TYPE OF WORK CONTRACTOR DID ON ENSTING LINE AT THE-IN. DATE OF NEWL? INSTALLED WATERINE WILL BE WHEN IT IS 14. CONCRETE WASH-WARRONTY ON NEWL? INSTALLED LINES, TO INCLUDE ANY AND ALL TYPE OF WORK CONTRACTOR DID ON ESTINGLINE AT THE-IN. DATE OF NEWL? INSTALLED WATERIANE WILL BE WHEN IT IS 14. CONCRETE WASH-WARRONTY ON NEWL? INSTALLED WATER SERVICES TO PORT ISABEL, SOUTH PADRE 17. WITH THE EXCEPTION OF TX-DOT PERMITS, CONTRACTOR WILL BE RESPONSIBLE FOR ANY AND ALL PERMITS, PERMIT, PERS, MADINISTRATIVE FEES, METER FEES, AND ANY TERES THAT MAY APPLY WITH THE WATERLINE UPGRADE, EXTENSION OR TIE-IN. LIMPO PROVIDES WATER SERVICES TO PORT ISABEL, SOUTH PADRE 15. SEDIMENT SO CONSTRUCT 18. CONTRACTOR INSTALLING/UPGRADING LINES WILL SIGN OFF ON; 16. STAGING, STOCKPILE 19. DACTERIOLOGICAL SAMPLE (PASSING SAMPLE) 1. UTILITY BONDS: COPY 19. DACTERIOLOGICAL SAMPLE (PASSING SAMPLE) 1. UTILITY BONDS: COPY 19. LAGUNA MADRE WATER DISTRICT WILL PROVIDE SIGN OFF SHEET ON ALL ITEMS REQUESTED. 2. WARRANTY: 1 YEAR F 20. LAGUNA MADRE WATER DISTRICT REQUIRES CONTRACTORS TO FOLLOW REQUIREMENTS DURING 5. NOTIFICATION ONE CONSTRUCTION! 20. LAGUNA MADRE WATER DISTRICTS REQUIRES CONTRACTORS		
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A) HYDROSTATIC TEST LAGUNA MADRE WATER B) BACTERIOLOGICAL SAMPLE (PASSING SAMPLE) 1. UTILITY BONDS: COPY C) RESTORED AREAS AS APPLICABLE 2. WARRANTY: 1 YEAR F D) MET ALL REQUIREMENTS AS SET FORTH BY LMWD 3. AS BUILT DRAWINGS: 19. LAGUNA MADRE WATER DISTRICT WILL PROVIDE SIGN OFF SHEET ON ALL ITEMS REQUESTED. 4. PRE CONSTRUCTION 20. LAGUNA MADRE WATER DISTRICTS REQUIRES CONTRACTORS TO FOLLOW REQUIREMENTS DURING 5. NOTIFICATION ONE CA 20. LAGUNA MADRE WATER DISTRICTS REQUIRES CONTRACTORS TO FOLLOW REQUIREMENTS DURING 6. TESTING REQUIREMENTS 20. LAGUNA MADRE WATER DISTRICTS REQUIRES CONTRACTORS TO FOLLOW REQUIREMENTS DURING 6. TESTING REQUIREMENTS 20. LAGUNE FITTING. USE MECHANICAL AND BRASS COMPRESSION FITTINGS. 6. TESTING REQUIREMENTS 21. NO 2-INCH GATE VALVE. USE 2-INCH BRASS CORP-STOPS. 6.1. TO BE COMPLETE AF 22. NO 2-INCH GATE VALVE. USE 2-INCH BRASS BOLTS. 6. 4. 3. ON FLANGE-BY-FLANGE CONNECTION USE BRASS BOLTS. 6. 4. 4. USE 1-INCH MUNICIPEX TUBING FOR SERVICE LINES. 6. AFTER BACTERIOLOG 5. PLACE WATER BLUE WARNING TAPE. 7. METER	18. CONTRACTOR INSTALLING/UPGRADING LINES WILL SIGN OFF ON;	16. STAGING, STOCKPILE ANY TREE DRIPLINES.
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2. WARRANTY: 1 YEAR F D) MET ALL REQUIREMENTS AS SET FORTH BY LMWD 3. 19. LAGUNA MADRE WATER DISTRICT WILL PROVIDE SIGN OFF SHEET ON ALL ITEMS REQUESTED. 4. 20. LAGUNA MADRE WATER DISTRICT WILL PROVIDE SIGN OFF SHEET ON ALL ITEMS REQUESTED. 4. 20. LAGUNA MADRE WATER DISTRICTS REQUIRES CONTRACTORS TO FOLLOW REQUIREMENTS DURING 5. 20. LAGUNA MADRE WATER DISTRICTS REQUIRES CONTRACTORS TO FOLLOW REQUIREMENTS DURING 5. 21. NO GLUE FITTING. USE MECHANICAL AND BRASS COMPRESSION FITTINGS. 6. 22. NO 2-INCH GATE VALVE. USE 2-INCH BRASS CORP-STOPS. 6.2 3. ON FLANGE-BY-FLANGE CONNECTION USE BRASS BOLTS. 6. 4. USE 1-INCH MUNICIPEX TUBING FOR SERVICE LINES. 7. 5. PLACE WATER BLUE WARNING TAPE. 7. 6. BLUE TRACING WIRE 10-GAUGE HMWPE INSULATION (HDPE) AND DIRECT BURIAL RATED. 7.1. METERS ARE PROVIDI	B) BACTERIOLOGICAL SAMPLE (PASSING SAMPLE)	
19. LAGUNA MADRE WATER DISTRICT WILL PROVIDE SIGN OFF SHEET ON ALL ITEMS REQUESTED. 4. PRE CONSTRUCTION I 20. LAGUNA MADRE WATER DISTRCTS REQUIRES CONTRACTORS TO FOLLOW REQUIREMENTS DURING 5. NOTIFICATION ONE C/ 20. LAGUNA MADRE WATER DISTRCTS REQUIRES CONTRACTORS TO FOLLOW REQUIREMENTS DURING 5. NOTIFICATION ONE C/ 20. LAGUNA MADRE WATER DISTRCTS REQUIRES CONTRACTORS TO FOLLOW REQUIREMENTS DURING 5. NOTIFICATION ONE C/ 20. LAGUNA MADRE WATER DISTRCTS REQUIRES CONTRACTORS TO FOLLOW REQUIREMENTS DURING 5. NOTIFICATION ONE C/ 20. LAGUNA MADRE WATER DISTRCTS REQUIRES CONTRACTORS TO FOLLOW REQUIREMENTS DURING 5. NOTIFICATION ONE C/ 20. DAGUA MADRE WATER DISTRCTS REQUIRES CONTRACTORS TO FOLLOW REQUIREMENTS DURING 6. TESTING REQUIREME 1. NO GLUE FITTING. USE MECHANICAL AND BRASS COMPRESSION FITTINGS. 6. TESTING REQUIREME 2. NO 2-INCH GATE VALVE. USE 2-INCH BRASS CORP-STOPS. 6.1. TO BE COMPLETE AF 3. ON FLANGE-BY-FLANGE CONNECTION USE BRASS BOLTS. 6.4. 4. PSI FOR 2 HOURS 3. ON FLANGE-BY-FLANGE CONNECTION USE BRASS BOLTS. 6.6. AFTER BACTERIOLOG 4. USE 1-INCH MUNICIPEX TUBING FOR SERVICE LINES. <t< td=""><td>C) RESTORED AREAS AS APPLICABLE</td><td>2. WARRANTY: 1 YEAR F</td></t<>	C) RESTORED AREAS AS APPLICABLE	2. WARRANTY: 1 YEAR F
19. EAGONAL MADRE WATER DISTRCTS REQUIRES CONTRACTORS TO FOLLOW REQUIREMENTS DURING 5. NOTIFICATION ONE CA 20. LAGUNA MADRE WATER DISTRCTS REQUIRES CONTRACTORS TO FOLLOW REQUIREMENTS DURING 6. TESTING REQUIREME 1. NO GLUE FITTING. USE MECHANICAL AND BRASS COMPRESSION FITTINGS. 6. TESTING REQUIREME 2. NO 2-INCH GATE VALVE. USE 2-INCH BRASS CORP-STOPS. 6.1. TO BE COMPLETE AF 2. NO 7-INCH GATE VALVE. USE 2-INCH BRASS CORP-STOPS. 6.3. 100 PSI FOR 2 HOURS 3. ON FLANGE-BY-FLANGE CONNECTION USE BRASS BOLTS. 6.4. 4 PSI FOR 10 MINUTE 4. USE 1-INCH MUNICIPEX TUBING FOR SERVICE LINES. 6.6. AFTER BACTERIOLOGICAL 5. PLACE WATER BLUE WARNING TAPE. 7. METERS 6. BLUE TRACING WIRE 10-GAUGE HMWPE INSULATION (HDPE) AND DIRECT BURIAL RATED. 7.1. METERS ARE PROVIDI	D) MET ALL REQUIREMENTS AS SET FORTH BY LMWD	3. AS BUILT DRAWINGS:
20. EXCONVENIENCE WATCH DISTROTORING TO REGISTRED CONTRACTORS TO FOLLOW REGOMEDIATED DONING 6. TESTING REQUIREME 1. NO GLUE FITTING. USE MECHANICAL AND BRASS COMPRESSION FITTINGS. 6.1. TO BE COMPLETE AF 2. NO 2-INCH GATE VALVE. USE 2-INCH BRASS CORP-STOPS. 6.2. 150 PSI FOR 2 HOURS 3. ON FLANGE-BY-FLANGE CONNECTION USE BRASS BOLTS. 6.4. 4 PSI FOR 10 MINUTE 4. USE 1-INCH MUNICIPEX TUBING FOR SERVICE LINES. 6.6. AFTER BACTERIOLOG 5. PLACE WATER BLUE WARNING TAPE. 7. METERS 6. BLUE TRACING WIRE 10-GAUGE HMWPE INSULATION (HDPE) AND DIRECT BURIAL RATED. 7.1. METERS ARE PROVIDI	19. LAGUNA MADRE WATER DISTRICT WILL PROVIDE SIGN OFF SHEET ON ALL ITEMS REQUESTED.	4. PRE CONSTRUCTION
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2. NO 2-INCH GATE VALVE. USE 2-INCH BRASS CORP-STOPS.6.1. TO BE COMPLETE AF 6.2. 150 PSI FOR 2 HOURS 6.3. 100 PSI FOR 2 HOURS 6.3. 100 PSI FOR 2 HOURS 6.4. 4 PSI FOR 10 MINUTE 6.5. WATER LINES TO BE 3 6.6. AFTER BACTERIOLOGY3. ON FLANGE-BY-FLANGE CONNECTION USE BRASS BOLTS.6.4. 4 PSI FOR 10 MINUTE 6.5. WATER LINES TO BE 3 6.6. AFTER BACTERIOLOGY4. USE 1-INCH MUNICIPEX TUBING FOR SERVICE LINES.6.6. AFTER BACTERIOLOGY5. PLACE WATER BLUE WARNING TAPE.7. METERS6. BLUE TRACING WIRE 10-GAUGE HMWPE INSULATION (HDPE) AND DIRECT BURIAL RATED.7.1. METERS ARE PROVIDI 7.2. METER BOX ARE PROVIDI		6. TESTING REQUIREME
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6. BLUE TRACING WIRE 10-GAUGE HMWPE INSULATION (HDPE) AND DIRECT BURIAL RATED.7.1. METERS ARE PROVIDE 7.2. METER BOX ARE PROVIDE 7.2. METER BOX ARE PROVIDE		7. METERS
		7.2. METER BOX ARE PRO

ER LINE 3 FT TOP OF THE LINE IN DEPTH FROM THE FINISH GRADE.

PRESSURE GAUGE TO SHOW 150 PSI.

FOR LONG SERVICES SCH 40 OR SDR 35

ARATION BETWEEN WATER AND SEWER CASING IS REQUIRED.

RACTORS

(956) 867-5125

6) 592-1744

STRUCTION (956) 245-1009

TRUCTION (956) 472-8613

ISTRUCTION (956) 233-4471

RUCTION (956) 572-9353

(956) 592-7371

200-2344

OLUTIONS (956) 789-9990

TION / EROSION CONTROL NOTES:

ALL OBTAIN A SWPPP PERMIT AND POST IT AT THE CONSTRUCTION SITE, IN ACCORDANCE 57 13 TEMPORARY EROSION AND SEDIMENTATION CONTROL AND 01 57 23 TPDES TO CONSTRUCTION.

SEDIMENT CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCING ANY EARTH

LL BE MADE TO CONTAIN DISTURBED SOILS WITHIN THE EXTENTS OF PERIMETER EROSION _ MEASURES.

R SHALL SEQUENCE ALL CONSTRUCTION IN SUCH A MANNER AS TO MINIMIZE THE AMOUNT IRBED EARTH.

ISTRUCTION EXIT IS REQUIRED AT ALL POINTS OF DESIGNATED EGRESS FROM THE LIMITS E CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE LOCATION(S) UNLESS THE PLANS. THE LOCATION(S) OF THE STABILIZED CONSTRUCTION EXIT(S) MAY BE T TO THE SEQUENCE OF CONSTRUCTION.

SEDIMENT CONTROL MEASURES SHALL BE PROPERLY MAINTAINED DURING THE COURSE

FERIAL STORAGE, STOCKPILE AND REFUSE AREAS SHALL REQUIRE APPLICABLE EROSION _ MEASURES.

IN DEBRIS SHALL BE CONTAINED WITHIN APPROPRIATE RECEPTACLES (ROLL-OFF RS, TRASH CANS, WIRE-MESH CAGES, ETC.) AND CONFINEDWITHIN PERIMETER EROSION

SEDIMENT CONTROL MEASURES SHALL REMAIN IN PLACE DURING THE COURSE OF EARTH ND UNTIL FINAL STABILIZATION IS ACHIEVED. STRUCTURAL MEASURES MAY BE REMOVED ECT ACCEPTANCE BY THE OWNER OR AS DIRECTED BY THE OWNER.

ILIZATION SHALL BEGIN AS SOON AS PRACTICABLE OR AS DIRECTED BY THE OWNER.

HALL BE IMPLEMENTED AS NECESSARY OR AS DIRECTED BY THE OWNER. DUST CONTROL RING OR OTHER METHODS APPROVED BY THE OWNER. DUST CONTROL AND ASSOCIATED IETHOD SHALL BE SUBSIDIARY TO THE EROSION CONTROL BID ITEM IN THE UNIT PRICE

SHALL BE SWEPT AT THE END OF EACH WORKDAY OR AS DIRECTED BY THE OWNER.

ASSOCIATED WITH DEWATERING OPERATIONS SHALL IMPLEMENT APPROPRIATE EROSION _ MEASURES. MEASURES MAY INCLUDE BUT ARE NOT LIMITED TO SEDIMENTATION

-WATER SHALL NOT BE DISCHARGED DIRECTLY INTO A STORM SEWER SYSTEM OR WASH ACTIVITIES MUST BE PERFORMED WITHIN THE EXTENTS OF ESTABLISHED T CONTROL MEASURES OR DESIGNATED AREAS APPROVED BY THE OWNER.

BE CLEARED FROM ALL STORM SEWER PIPES, CULVERTS AND APPURTENANCES WITHIN UCTION PRIOR TO FINAL PROJECT ACCEPTANCE. SEDIMENT SHALL BE PROPERLY

PILE AND EQUIPMENT STORAGE AREAS SHALL NOT BE LOCATED WITHIN THE EXTENTS OF

TER DISTRICT SUBDIVISION AND EXTENSION STANDARDS:

OPY OF BONDS FROM SUBDIVISION JURISDICTION

R FROM DATE OF PROJECT COMPLETION

GS: FURNISH AND CERTIFIED BY PE OR RPLS

ON MEETING REQUIRED

E CALL

EMENTS:

AFTER ALL UTILITIES INSTALLED

URS FOR WATER LINES, HYDROSTATIC TESTED

URS FOR FORCE MAIN LINES, HYDROSTATIC TESTED JTES FOR SEWER GRAVITY LINES, AIR TESTED

BE STERILIZED (HTH) 24 HOURS, THEN FLUSHED, AND BACTERIOLOGICAL TESTED.

LOGICAL TEST APPROVED, THEN INTERCONNECT TO MAIN LINE.

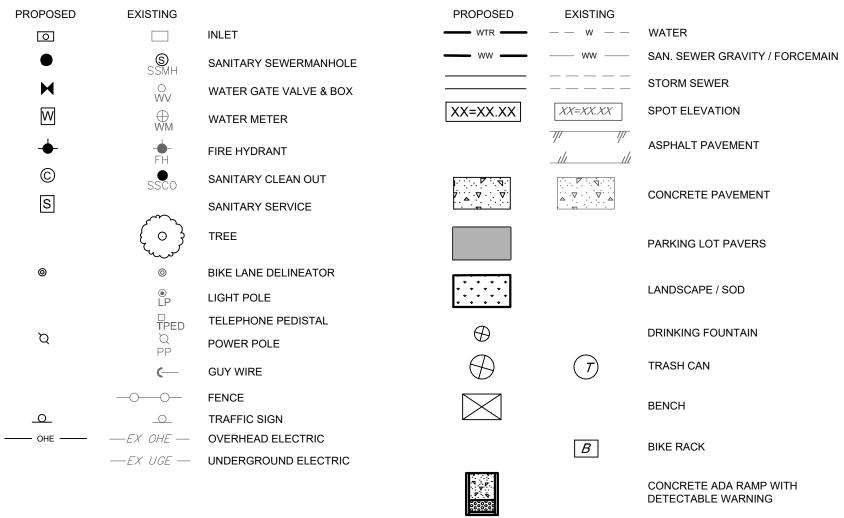
VIDED BY DISTRICT PAID FOR BY DEVELOPER PROVIDED BY DISTRICT ON 5/8", 1", AND 2" METERS. ST BE INSTALLED BY THE DEVELOPER FOR 4", 6", 8", 10" METERS OR LARGER. 8. BACKFLOW ASSEMBLY

8.1. REQUIRED BY DISTRICT PER STATE REGULATIONS ON FIRELINE METERS, FIRE PROTECTION METERS, IRRIGATIONS METERS, 8.2. MOTEL/HOTELS OVER 4 STORIES HIGH, RESTAURANTS WITH FOUNTAIN DRINKS, ASSEMBLY TESTED BY

CERTIFIED TESTER 8.3. WHEN INSTALLED AND ONCE A YEARTHEREAFTER, REPORT TURNED IN TO BACKFLOW PREVENTION

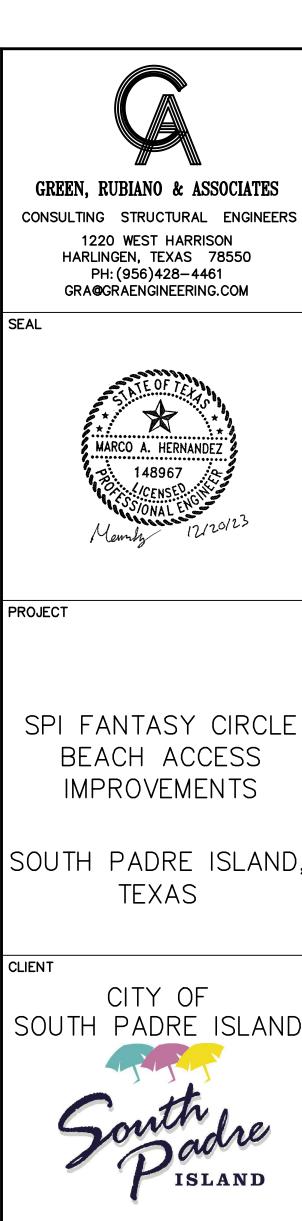
DEPARTMENT AT DISTRICT. 8.4. BACKFLOW ASSEMBLY PAID BY THE DEVELOPER INSTALLED AFTER THE METER BEFORE ANY SPIGOT OR

SINK OUTFLOW. 8.5. BACKLOW ASSEMBLY APPROVED BY THE DISTRICT ON EACH APPLICATION.

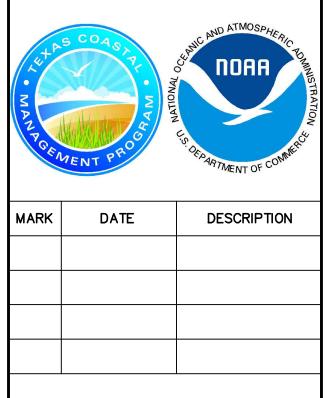




HALFF PROJECT NO. (AVO): 53856.001



SOUTH PADRE ISLAND, TEXAS P:956-761-3044 F: 956-761-3898



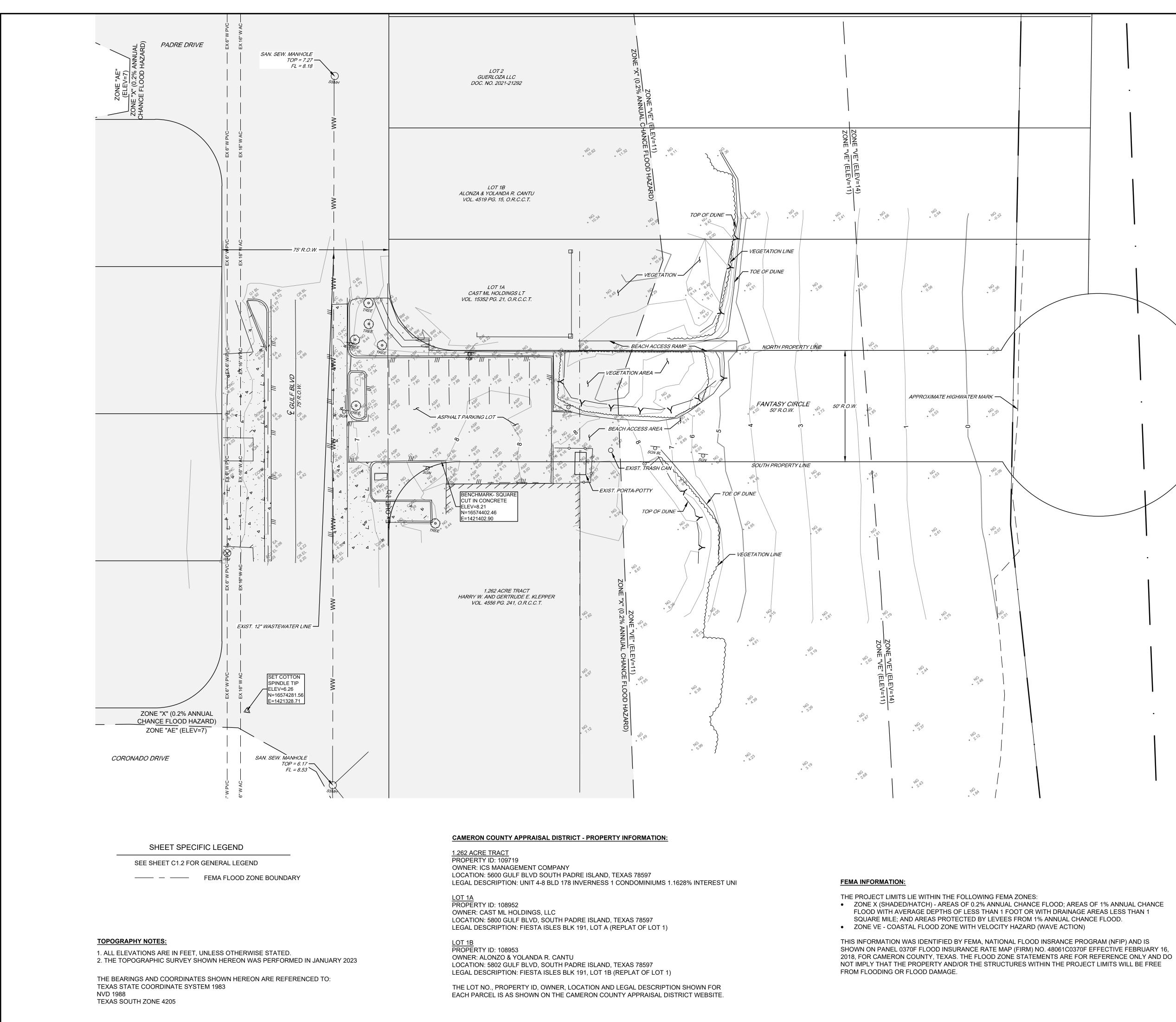
PROJECT NO.	1065–17
DATE	12-20-2023
DRAWN BY	ENH,MH
CHECKED BY	мн
SCALE	AS SHOWN
SHEET TITLE	

GENERAL NOTES AND LEGEND

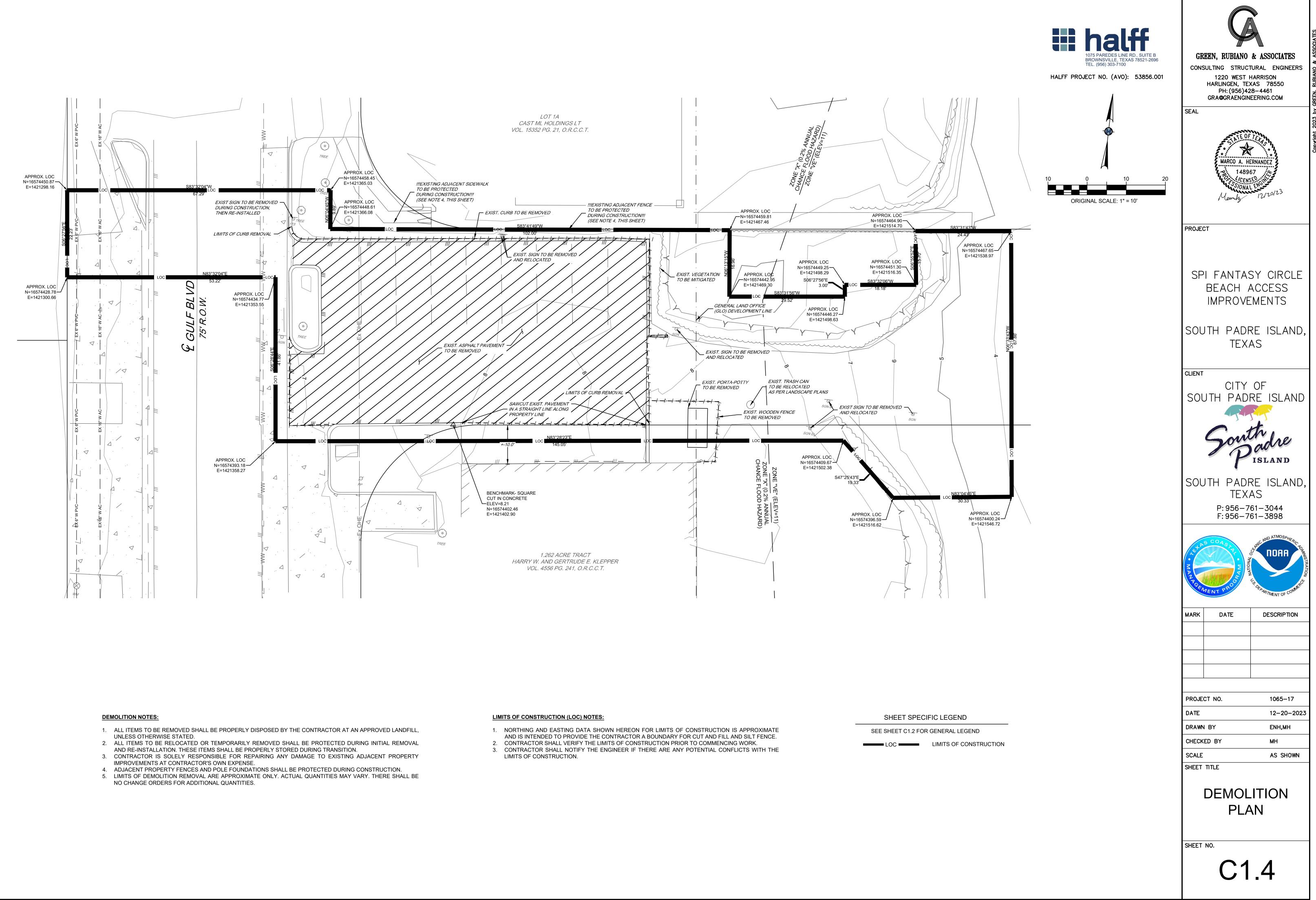
SHEET NO.

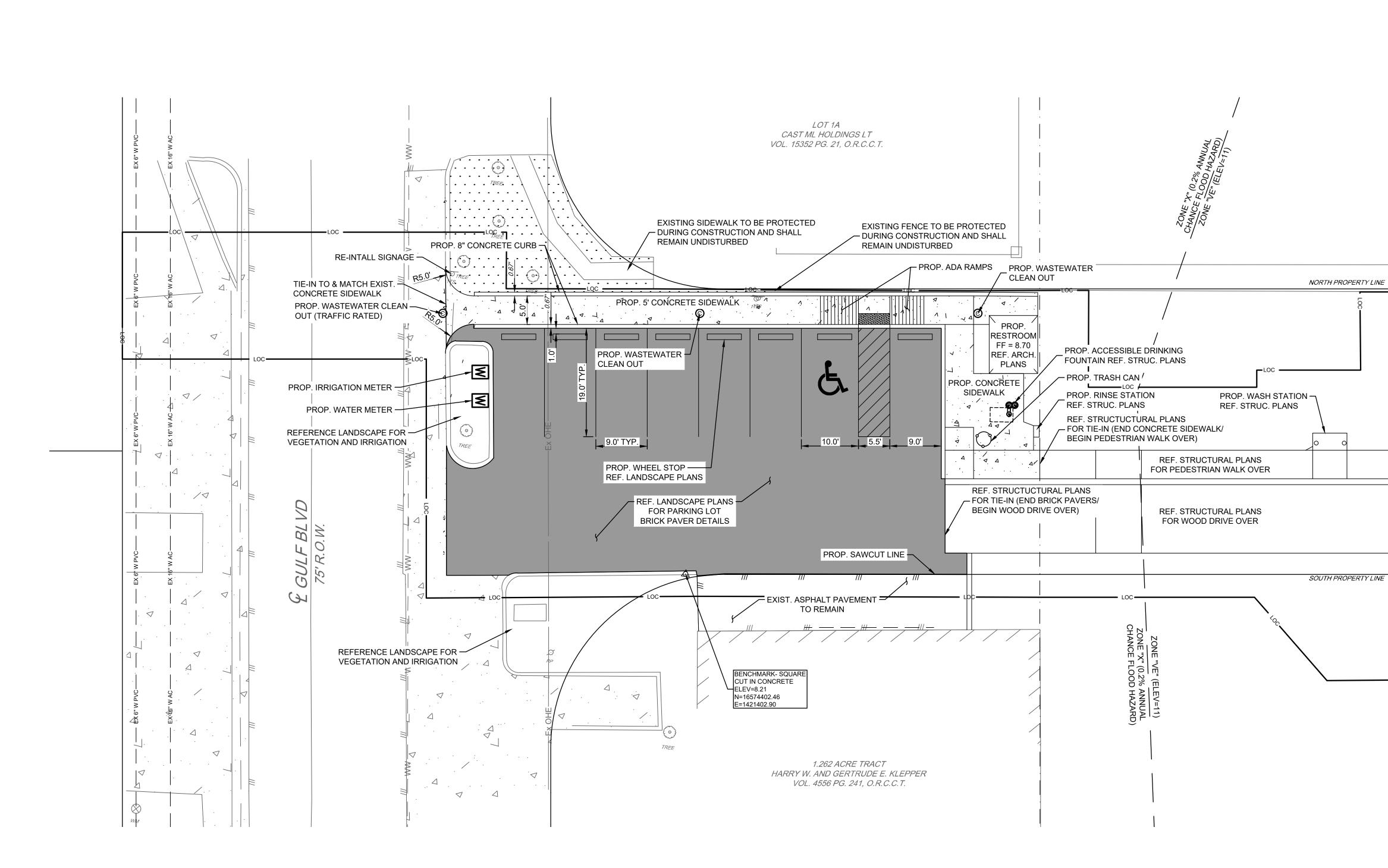


GENERAL LEGEND



iii halff 1075 PAREDES LINE RD., SUITE B BROWNSVILLE, TEXAS 78521-2696 TEL. (956) 303-7100 GREEN, RUBIANO & ASSOCIATES CONSULTING STRUCTURAL ENGINEERS 1220 WEST HARRISON HARLINGEN, TEXAS 78550 PH: (956)428-4461 GRA@GRAENGINEERING.COM HALFF PROJECT NO. (AVO): 53856.001 SEAL X MARCO A. HERNANDEZ 148967 Lemby ORIGINAL SCALE: 1" = 20' PROJECT SPI FANTASY CIRCLE BEACH ACCESS IMPROVEMENTS SOUTH PADRE ISLAND, TEXAS CLIENT CITY OF SOUTH PADRE ISLAND ISLAND SOUTH PADRE ISLAND, TEXAS P:956-761-3044 F: 956-761-3898 DATE DESCRIPTION MARK PROJECT NO. 1065–17 DATE 12-20-2023 DRAWN BY ENH,MH CHECKED BY MH SCALE AS SHOWN SHEET TITLE EXISTING CONDITIONS SHEET NO.



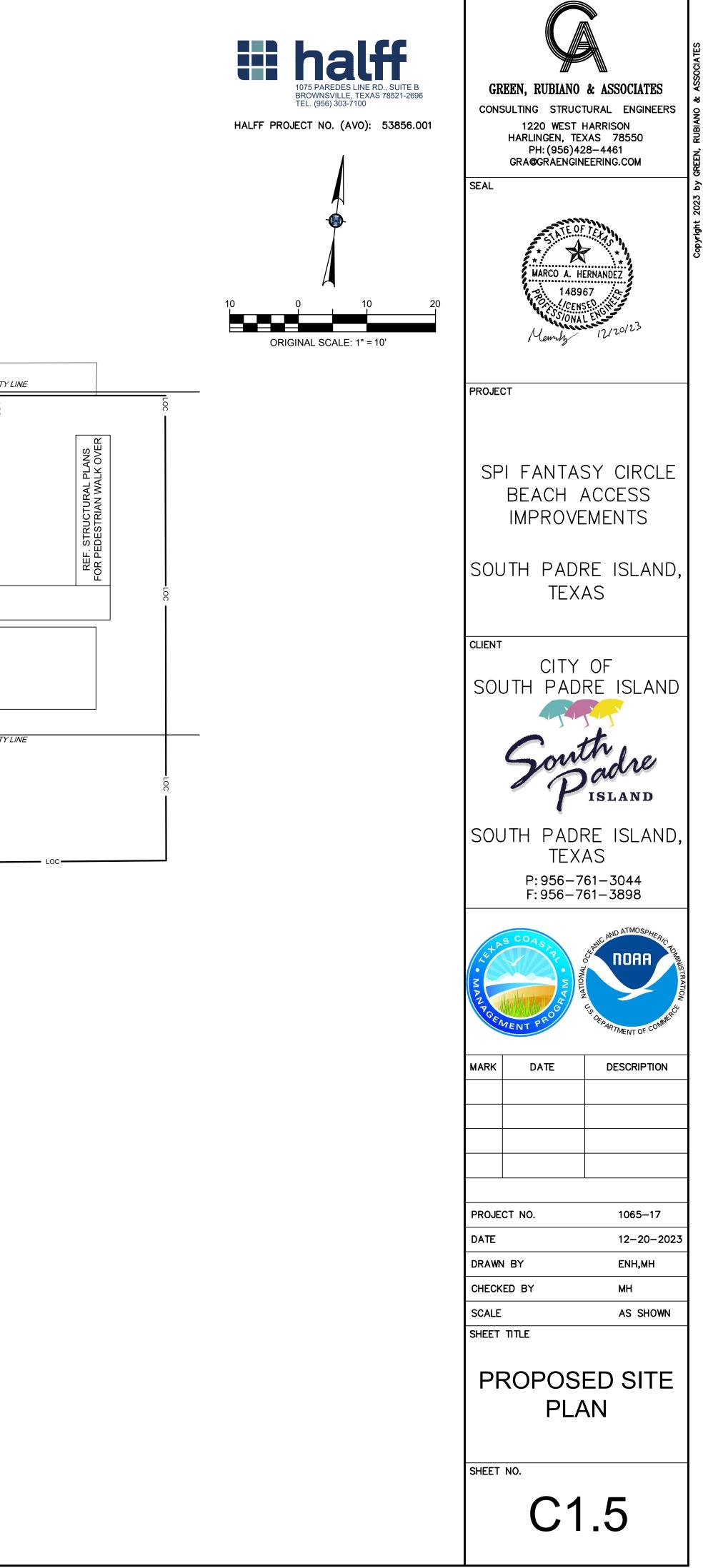


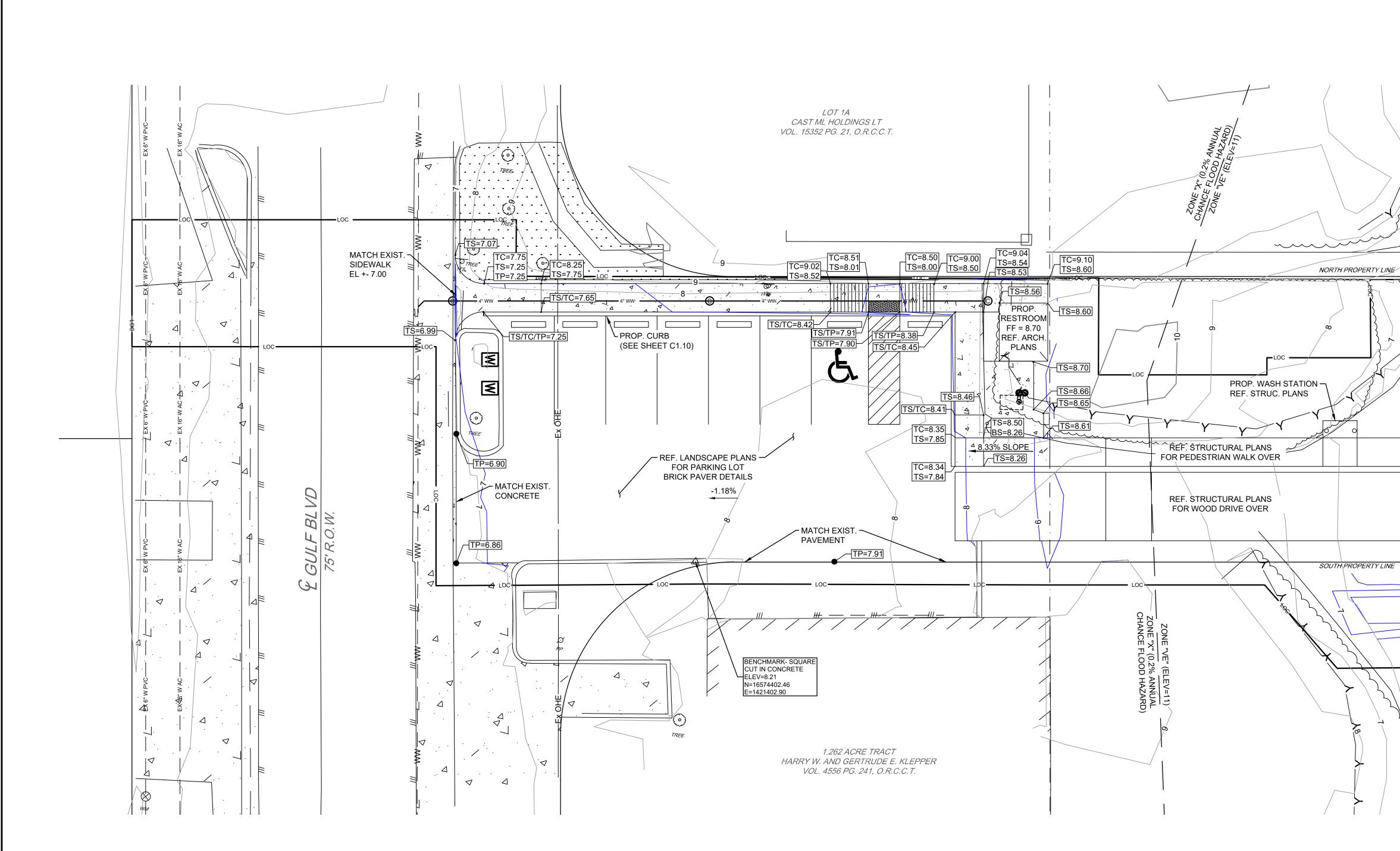
SITE NOTES:

- 1. CONTRACTOR SHALL MAINTAIN INGRESS AND EGRESS TO THE PROPERTY AT ALL TIMES DURING UTILITY CONSTRUCTION AND THROUGHOUT THE LENGTH OF THE PROJECT.
- 2. CONTRACTOR SHALL NOTIFY THE PROPERTY OWNER 2 DAYS (48 HOURS) IN ADVANCE PRIOR TO COMMENCING DRIVEWAY REPAIR CONSTRUCTION.
- 3. ALL PARKING AISLE STRIPING MATERIAL SHALL BE COLORED PAVERS. NOT PAINT SHALL BE USED FOR STRIPING, UNLESS OTHERWISE STATED (REFERENCE LANDSCAPE PLANS.)
- ACCESSIBLE PARKING PAVEMENT MARKINGS AND SYMBOL SHALL BE COLORED PAVERS. NOT PAINT SHALL BE USED FOR STRIPING, UNLESS OTHERWISE STATED (REFERENCE LANDSCAPE PLANS).
- 5. ALL DIMENSIONS SHOWN ARE IN FEET, UNLESS OTHERWISE STATED.
- ALL DIMENSIONS ARE SHOWN TO BACK OF CURB OR EDGE OF SIDEWALK, UNLESS OTHERWISE STATED.
 REFERENCE STRUCTURAL PLANS FOR OVERALL SITE PLAN DIMENSIONS.
- 8. SEE SHEET C1.10 FOR DETAILS.

PARKING LOT COUNT:

- 1. TOTAL SPACES =
- 2.ACCESSIBLE SPACES =13.MOTORCYCLE SPACES =0
- 4. STANDARD SPACES = 7

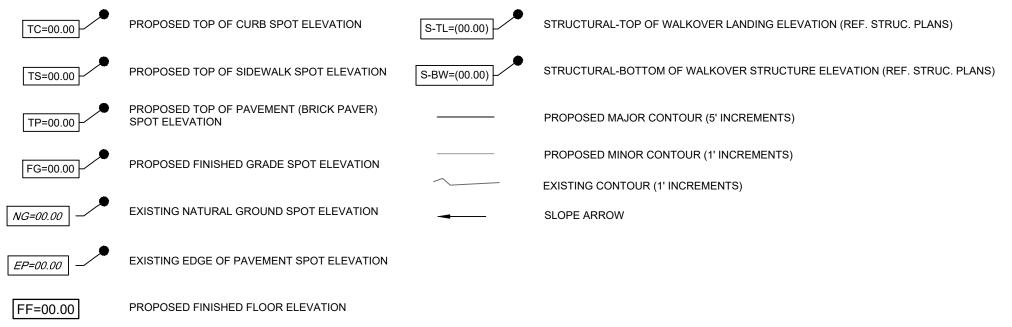


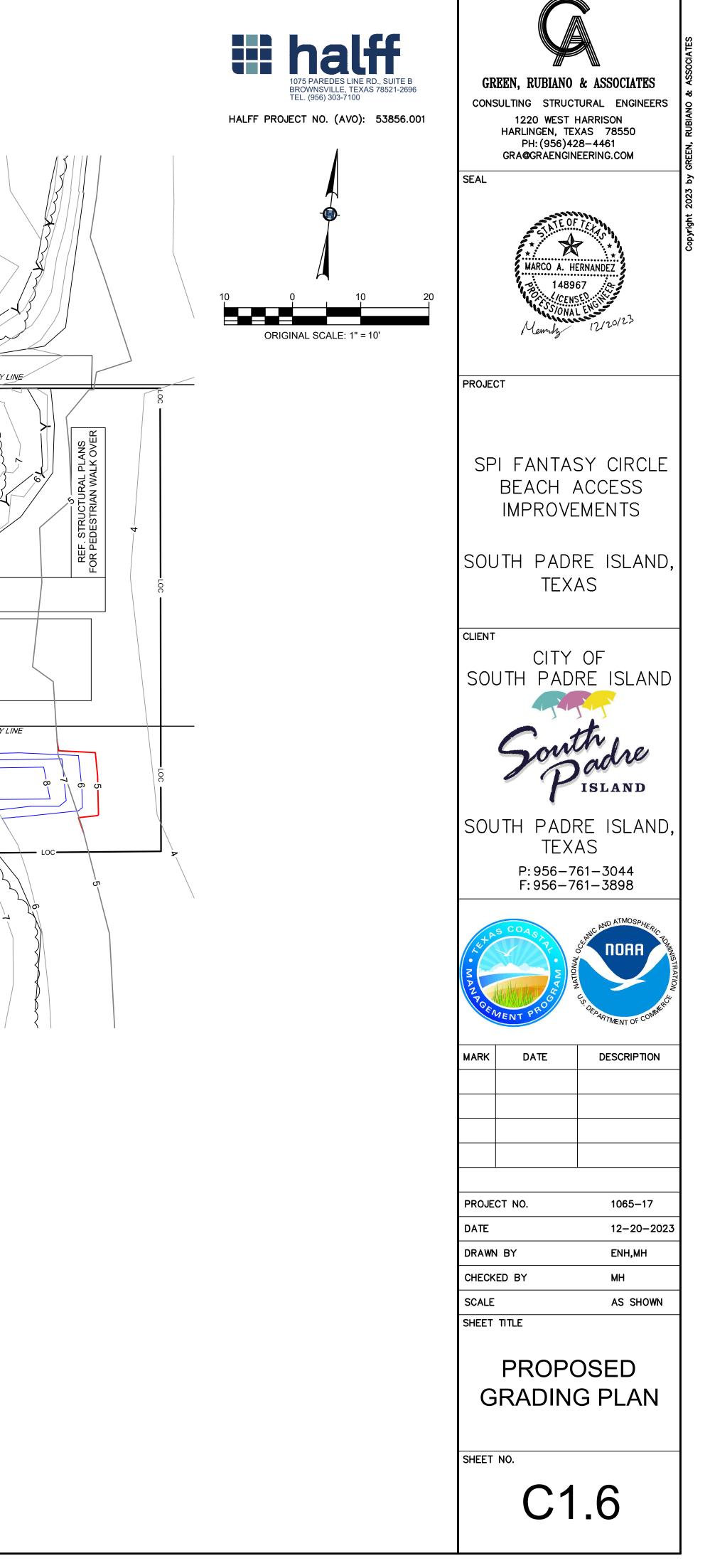


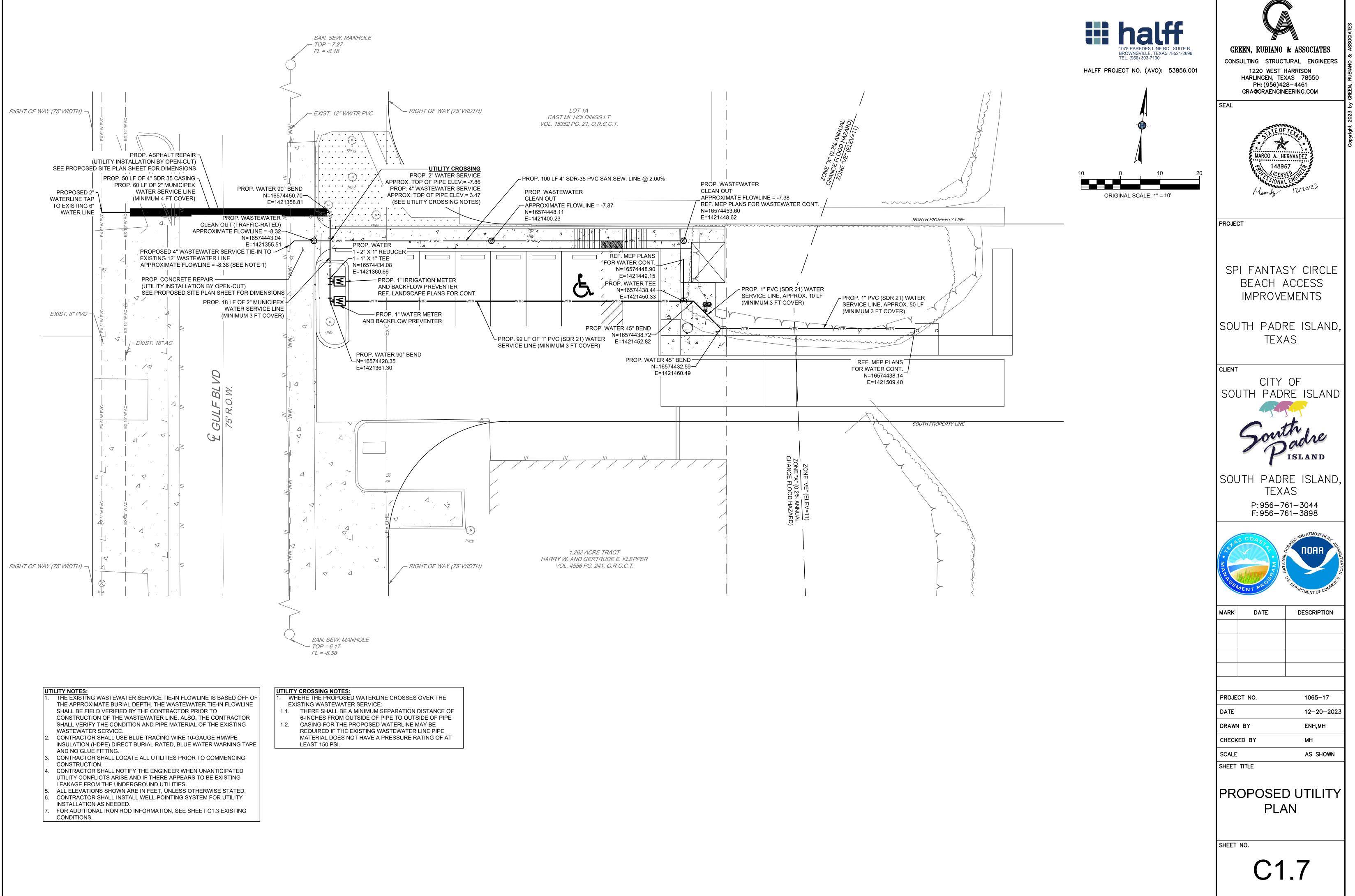
<u>GRADING NOTES:</u> 1. ALL ELEVATIONS SHOWN ARE IN FEET.

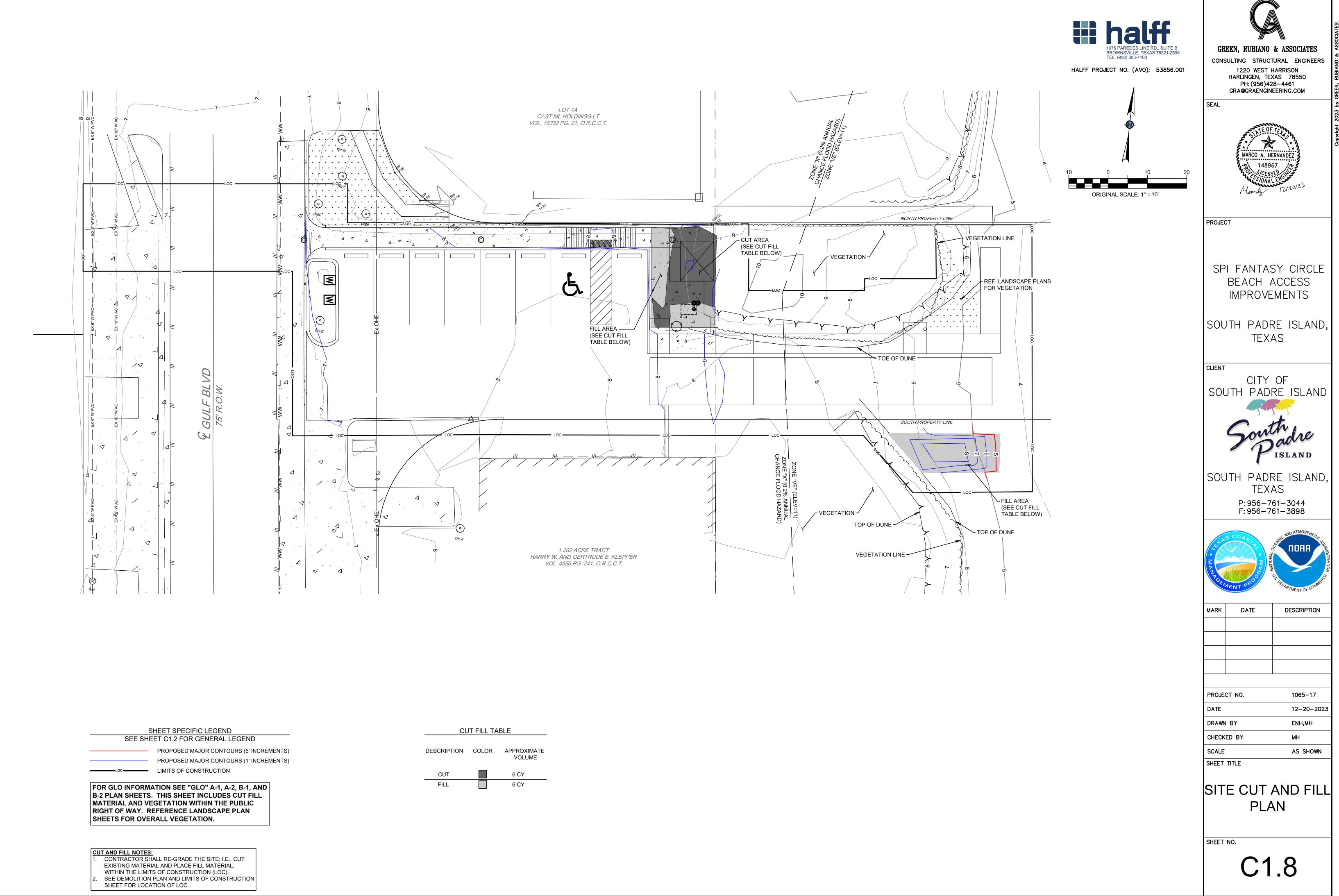
- ALL ELEVATIONS SHOWN ARE IN FEET.
 ALL CURB HEIGHT IS 6-INCH, UNLESS OTHERWISE STATED.
- 3. FOR ADDITIONAL IRON ROD INFORMATION, SEE SHEET C1.3 EXISTING CONDITIONS.
- EXISTING SAND SHALL BE GRADED TO 11-INCHES BELOW TP (BRICK PAVER) GRADES WITHIN THE PARKING LOT.



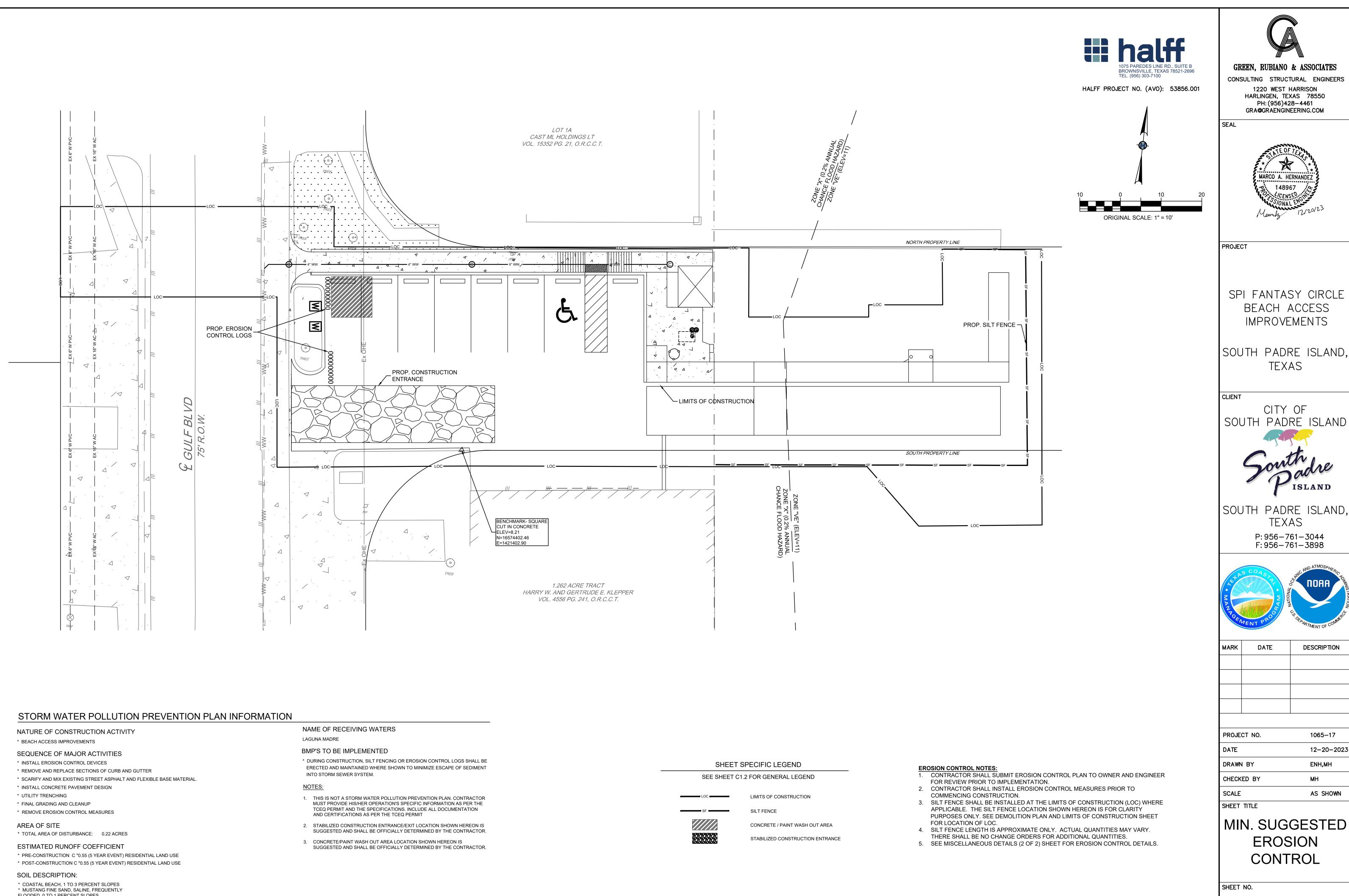








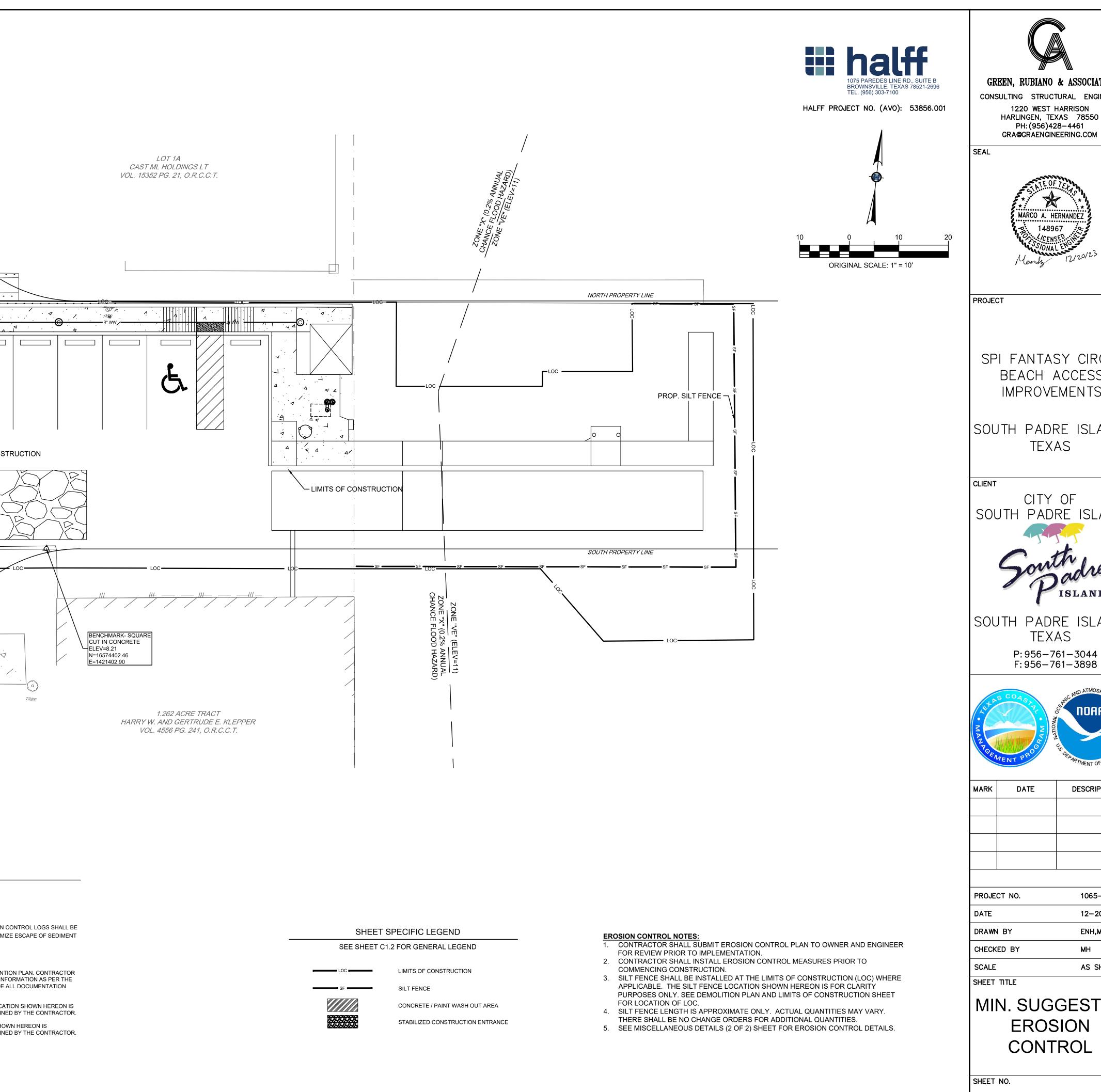
CUT FILL TABLE		
ESCRIPTION	COLOR	APPROXIMATE VOLUME
CUT		6 CY
FILL		6 CY



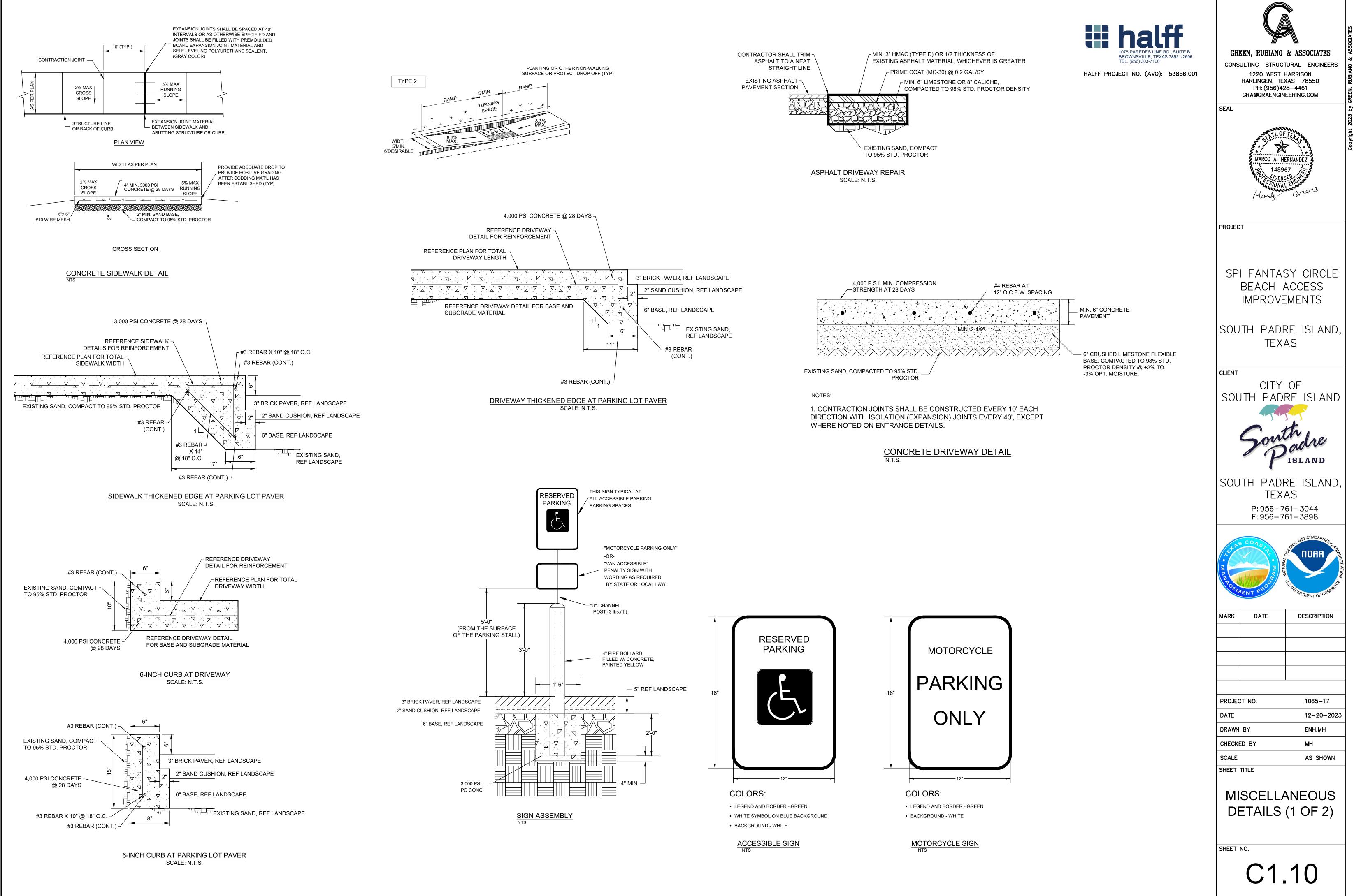
FLOODED, 0 TO 1 PERCENT SLOPES

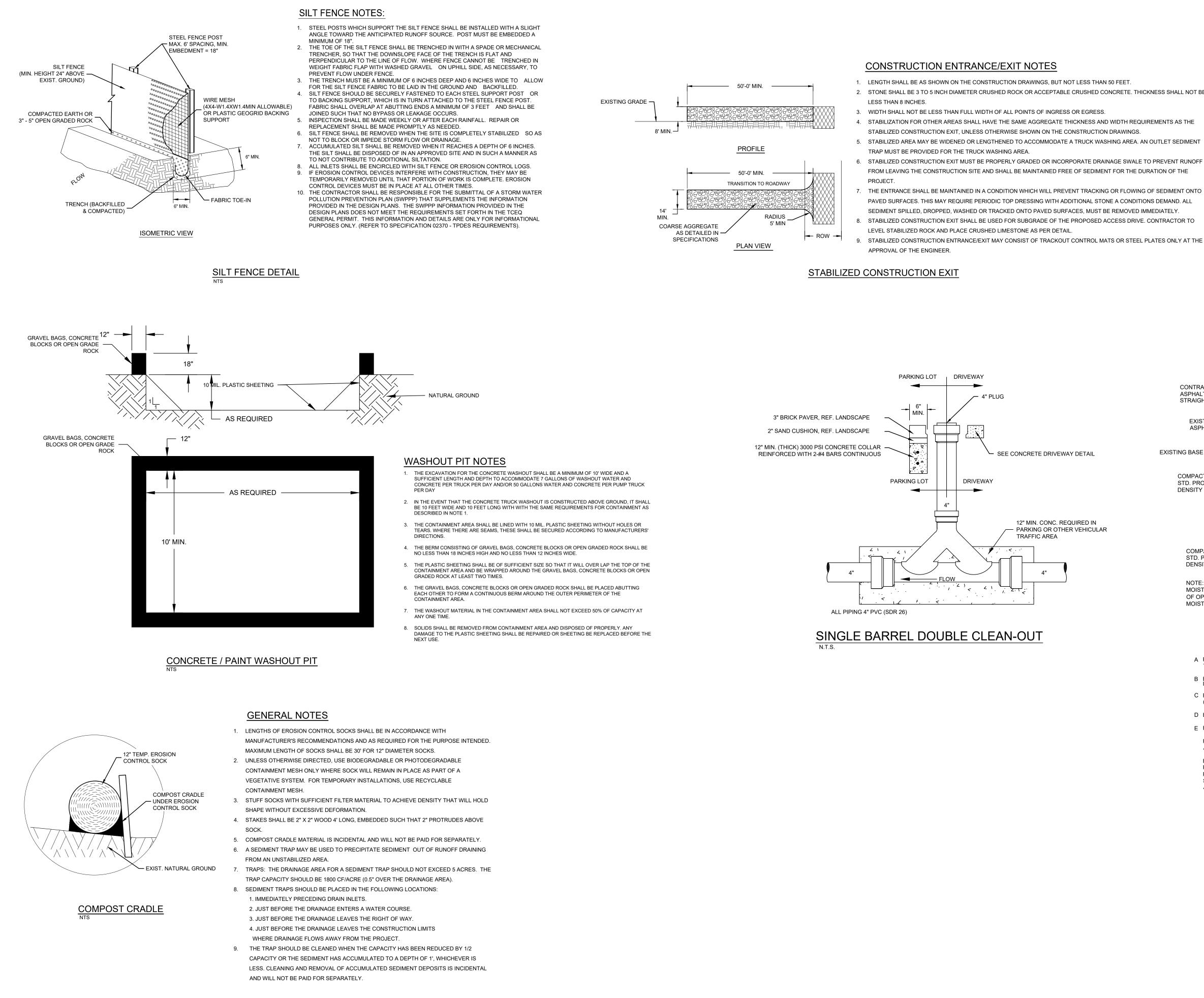
SITE PLAN SHOWS THE FOLLOWING:

- * GENERAL DRAINAGE PATTERNS (EXISTING AND PROPOSED)
- * AREAS OF SOIL DISTURBANCE
- * LOCATIONS OF MAJOR STRUCTURAL / NON-STRUCTURAL CONTROLS
- * LOCATIONS WHERE STABILIZATION PRACTICES ARE TO OCCUR

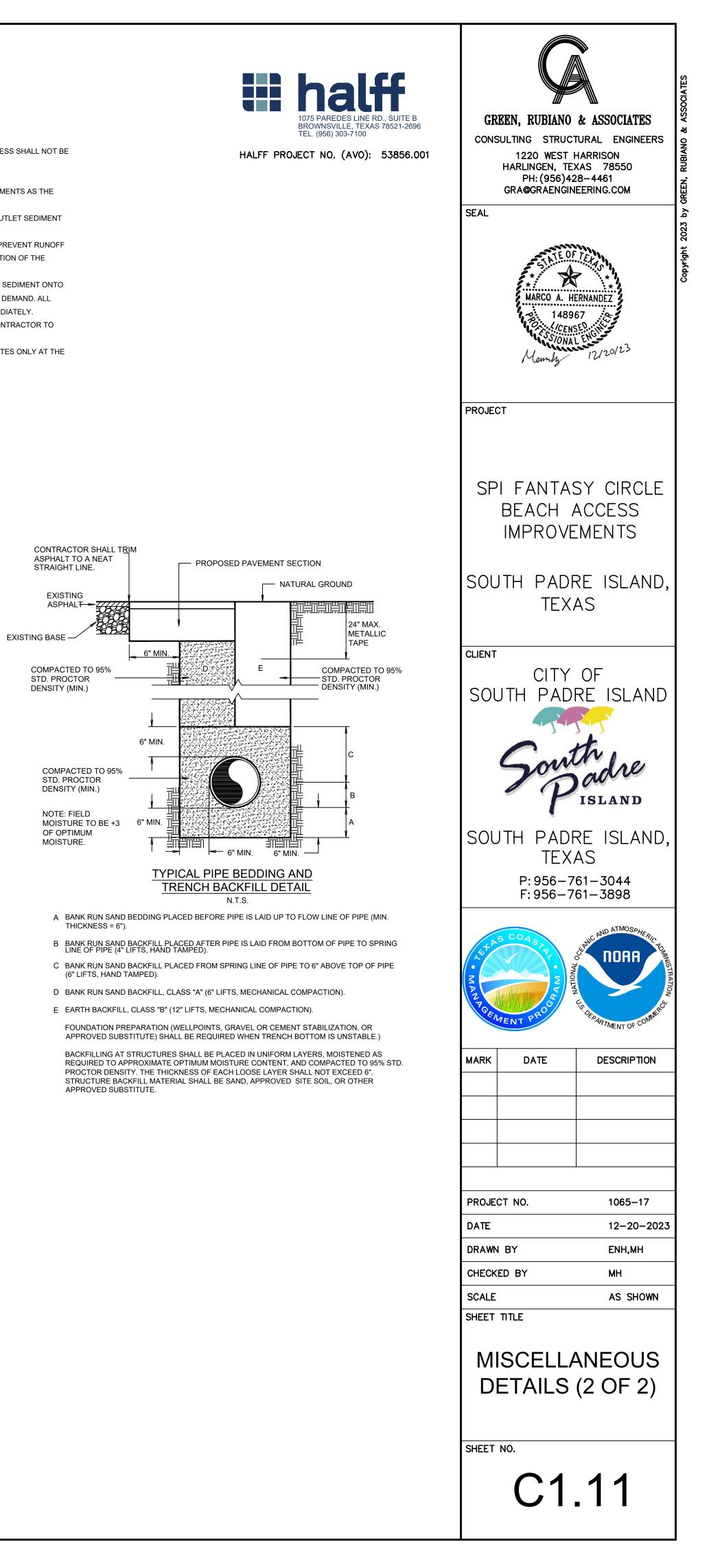


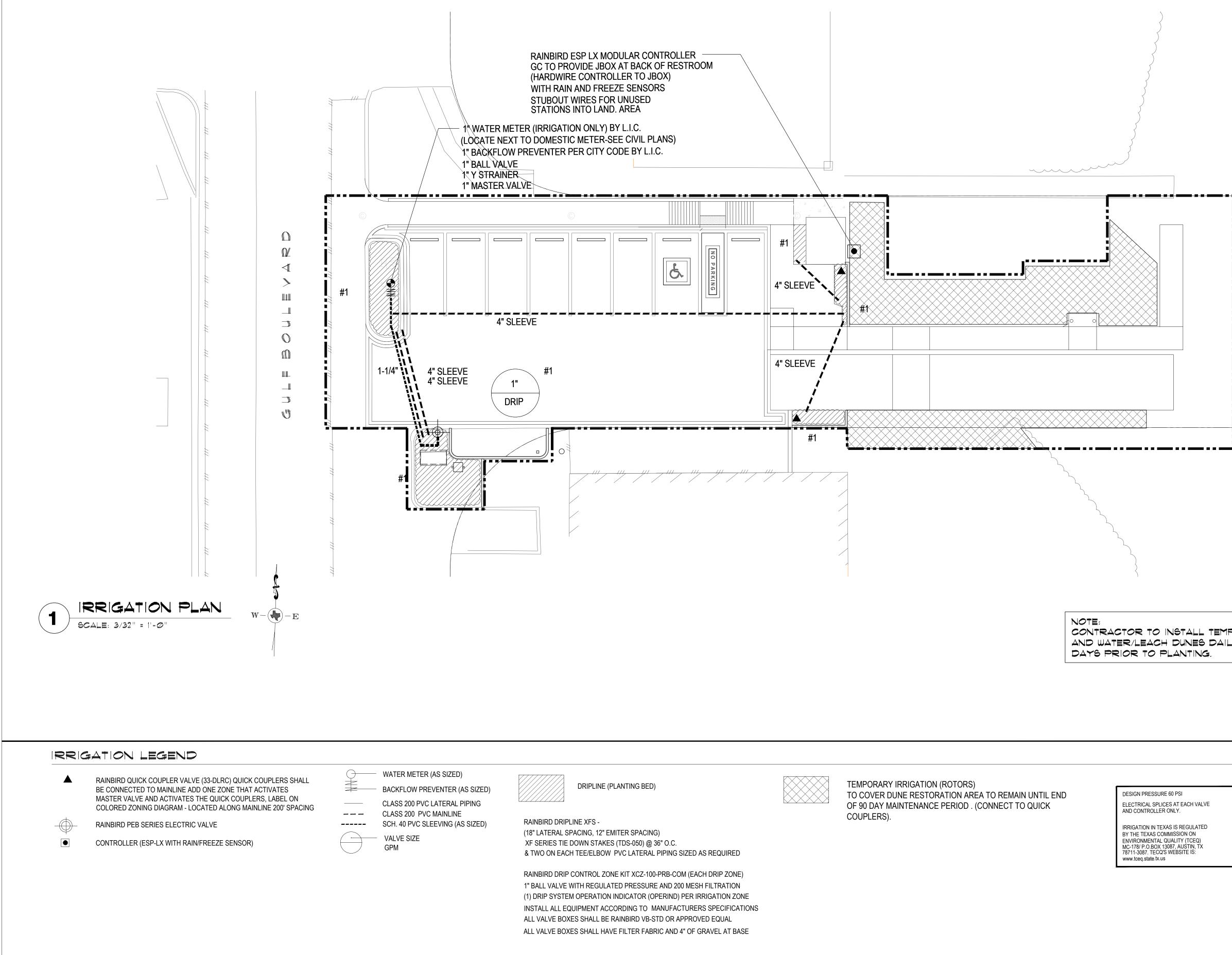
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- 2. STONE SHALL BE 3 TO 5 INCH DIAMETER CRUSHED ROCK OR ACCEPTABLE CRUSHED CONCRETE. THICKNESS SHALL NOT BE
- 4. STABILIZATION FOR OTHER AREAS SHALL HAVE THE SAME AGGREGATE THICKNESS AND WIDTH REQUIREMENTS AS THE STABILIZED CONSTRUCTION EXIT, UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION DRAWINGS.
- FROM LEAVING THE CONSTRUCTION SITE AND SHALL BE MAINTAINED FREE OF SEDIMENT FOR THE DURATION OF THE
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PAVED SURFACES. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE A CONDITIONS DEMAND. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PAVED SURFACES, MUST BE REMOVED IMMEDIATELY.
- 8. STABILIZED CONSTRUCTION EXIT SHALL BE USED FOR SUBGRADE OF THE PROPOSED ACCESS DRIVE. CONTRACTOR TO
- STABILIZED CONSTRUCTION ENTRANCE/EXIT MAY CONSIST OF TRACKOUT CONTROL MATS OR STEEL PLATES ONLY AT THE





DESIGN PRESSURE 60 PSI ELECTRICAL SPLICES AT EACH VALVE AND CONTROLLER ONLY. IRRIGATION IN TEXAS IS REGULATED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) MC-178/ P.O.BOX 13087, AUSTIN, TX 78711-3087. TECQ'S WEBSITE IS:



CONTRACTOR TO INSTALL TEMPORARY IRRIGATION AND WATER/LEACH DUNES DAILY FOR AT LEAST 14

> smr landscape architecture

STEVEN M. RAHN, INC. 1708 N. Griffin Street Dallas, Texas 75202 Tel 214.871.0083 Fax 214.871.0545 Email smr@smr-la.com

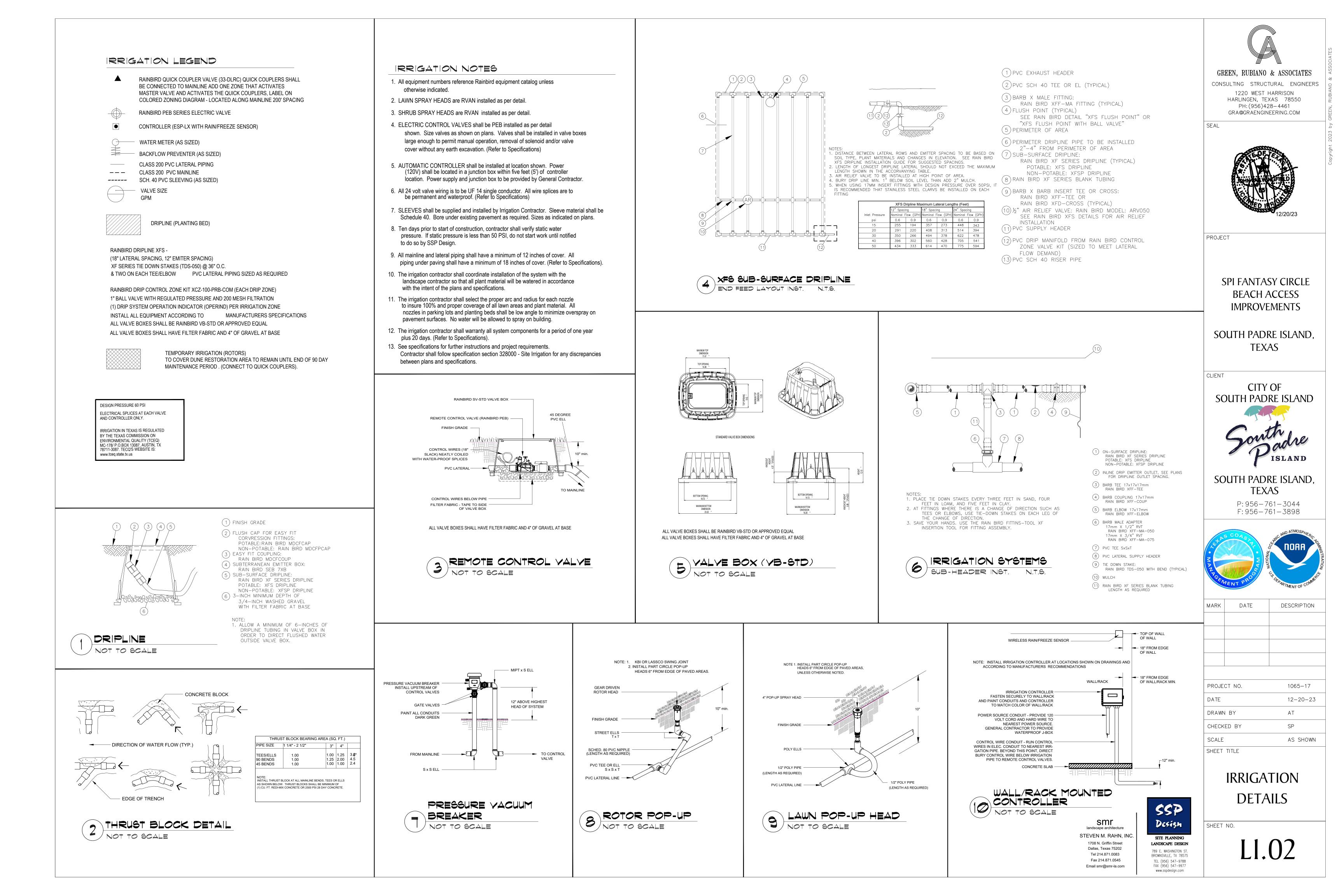


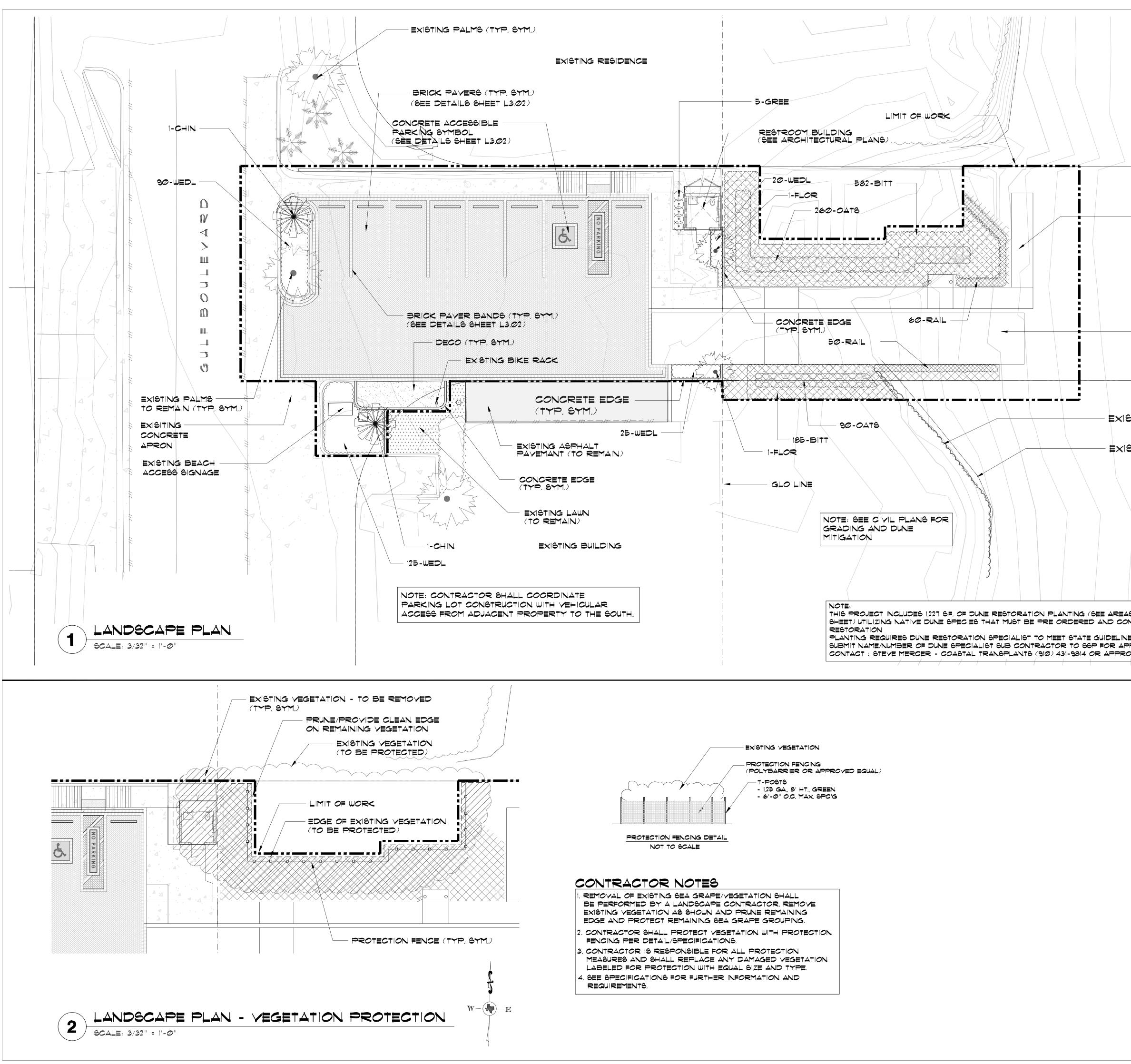
LANDSCAPE DESIGN 789 E. WASHINGTON ST. BROWNSVILLE, TX 78575 TEL (956) 547–9788 FAX (956) 547–9977 www.sspdesign.com

SHEET NO.

LI.0I

PLAN





PR		GREEN, RUBIANO & ASSOCIATES CONSULTING STRUCTURAL ENGINEERS 1220 WEST HARRISON HARLINGEN, TEXAS 78550 PH: (956)428-4461 GRA@GRAENGINEERING.COM
WOOD PEDESTRIAN	ACCESS/WALKOVER	PROJECT
	ESS/DRIVE OVER	SPI FANTASY CIRCLE BEACH ACCESS IMPROVEMENTS
EXISTING DUNE VEGETATIC	NLINE	SOUTH PADRE ISLAND, TEXAS
AREAS OF IMPACT THIS ND CONTRACT GROWN, DUNE DELINES AND APPROVALS. OR APPROVAL APPROVED EQUAL		ISLAND SOUTH PADRE ISLAND, TEXAS P: 956-761-3044 F: 956-761-3898
		A Z P GEMENT PROOF
		MARK DATE DESCRIPTION
		PROJECT NO. 1065–17 DATE 12–20–23 DRAWN BY AT
		CHECKED BY SP SCALE AS SHOWN SHEET TITLE
	SECTION N. RAHN, INC. 1708 N. Griffin Street Dallas, Texas 75202 Tel 214.871.0545 Tay 214 871.0545 Tay 214 871.0545	NG SIGN
	Tel 214.871.0083 789 E. WASHINGTO Fax 214.871.0545 BROWNSVILLE, TX T Email smr@smr-la.com TEL (956) 547-5 FAX (956) 547-5 FAX (956) 547-5	78575

www.sspdesign.com

PLANT SCHEDULE (SITE)

-						
CODE	BOTANICAL NAME	COMMON NAME	TYPE	SIZE	SPACING	QTY
	PALMS					
CHIN	LIVISTONA CHINENSIS	CHINESE FAN PALM	B/B	8-10' TRUNK	A.S.	2
FLOR	SABAL PALMETTO	FLORIDA SABAL PALM	B/B	10-12' TRUNK	A.S.	2
	SHRUBS					
GREE	FICUS MICROCARPA	GREEN ISLAND FICUS	3 GAL	12"HT-BUSHY	24" O.C.	ђ
	GROUND COVERING					
WEDL	WEDELIA TRILOBATA	WEDELIA	4" POTS		12" O.C.	260

PLANT SCHEDULE (DUNE RESTORATION)

CODE	BOTANICAL NAME	COMMON NAME	TYPE	SIZE	SPACING	QTY
	DUNE PLANTS					
BITT	PANICUM AMARUM	BITTER PANICUM	2"	trays/cuttings	i per s.f.	767
OATS	UNIOLA PANICULATA	SEA OATS	2"	TRAYS/CUTTINGS	I PER S.F.	350
RAIL	IPOMOEA PES-CAPRAE	RAILROAD VINE	2"	TRAYS/CUTTINGS	I PER S.F.	110

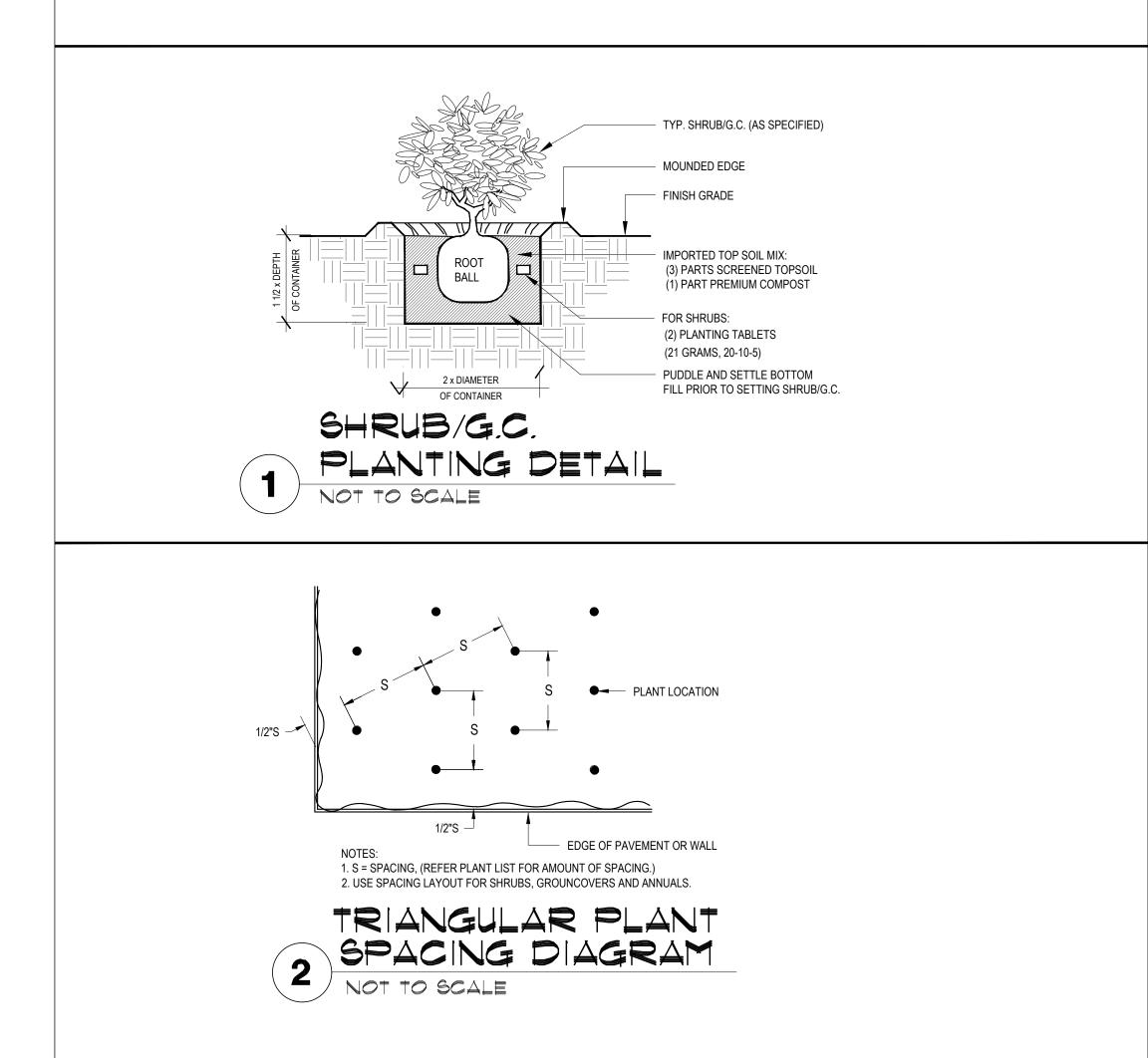
NOTE:

THIS PROJECT INCLUDES 1,227 S.F. OF DUNE RESTORATION PLANTING (SEE AREAS OF IMPACT THIS SHEET) UTILIZING NATIVE DUNE SPECIES THAT MUST BE PRE ORDERED AND CONTRACT GROWN, DUNE RESTORATION PLANTING REQUIRES DUNE RESTORATION SPECIALIST TO MEET STATE GUIDELINES AND APPROVALS, SUBMIT NAME/NUMBER OF DUNE SPECIALIST SUB CONTRACTOR TO SSP FOR APPROVAL CONTACT : STEVE MERCER - COASTAL TRANSPLANTS (910) 431-9814 OR APPROVED EQUAL

MATERIAL SCHEDULE

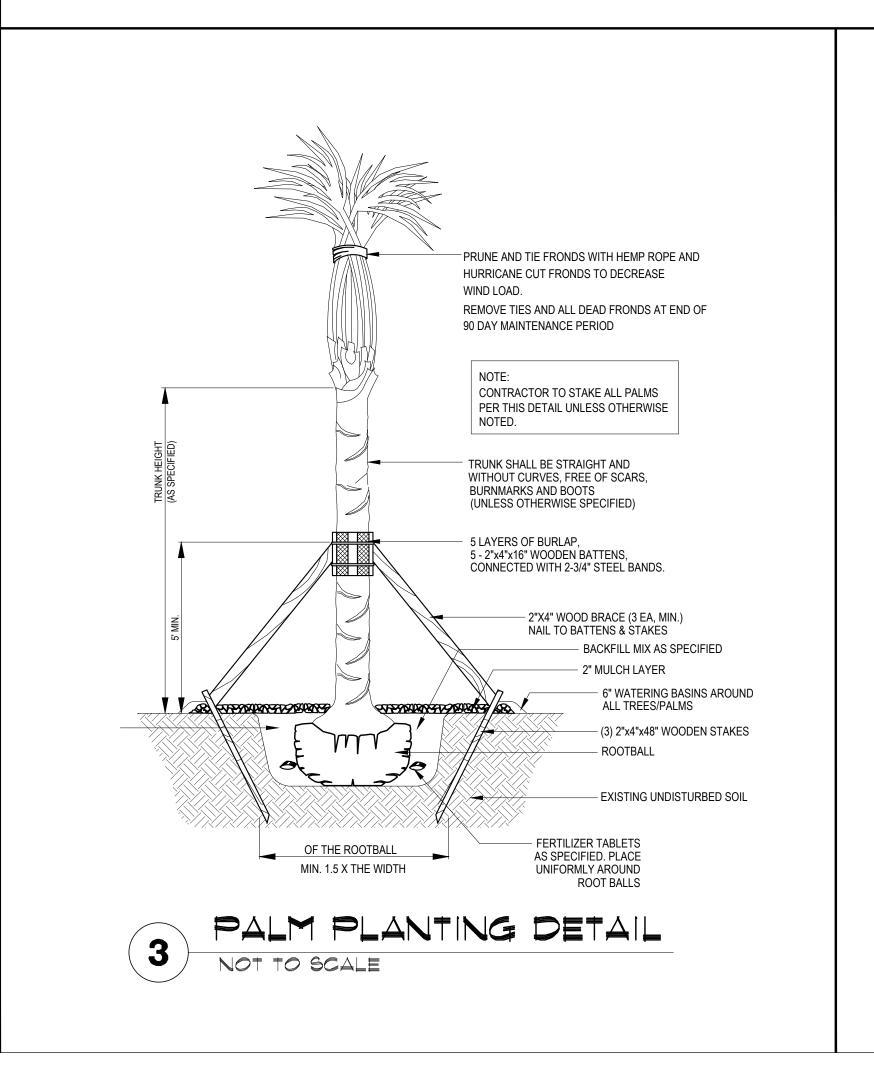
DESCRIPTION	NOTES	QUANTITY
VEGETATION PROTECTION	PROTECTION FENCING AND PRUNING OF EXISTING VEGETATION AS PER PLANS/DETAILS	-
PREMIUM COMPOST	2" LAYER PREMIUM COMPOST (EARTHWISE ORGANICS MIX) (NOT FOR DUNE AREA)	3 C.Y.
SCREENED TOP SOIL	8" FOR ALL PLANTING BEDS (NOT FOR DUNE AREA)	11 C.Y.
MULCH (HARDWOOD)	2" MIN. FOR ALL PLANTING BEDS AND WATERING BASING (TEXAS NATIVES HARDWOOD)	40 BAGS (2 C.F.)
HERBICIDE	ALL PLANTING BED AREAS AS SPECIFIED	450 S.F.
FERTILIZER	ALL PLANT MATERIAL PER DETAILS	450 S.F.
PLANTING TABLETS	PER DETAILS / AS SPECIFIED	-
PRE-EMERGENT	ALL PLANTING BED AREAS AS SPECIFIED	450 S.F.
GUYING / STAKING	ALL TREES/PALMS PER DETAILS	4
DECØ	4" COMPACTED DECOMPOSED GRANITE 'FINES' 1/4" MINUS PER PLANS/DETAILS	125 S.F.
CONCRETE EDGE	6 x 6" EXTRUDED COLORED 'TEXAS BUFF' CONCRETE EDGING PER PLANS/DETAILS	75 L.F.
IRRIGATION SYSTEM	COMPLETE AUTOMATIC AND TEMPORARY IRRIGATION SYSTEM BY By Licensed Contr. Per Plan/Specs	-

NOTE: CONTRACTORS MUST REVIEW TECHNICAL SPECIFICATIONS FOR ADDITIONAL PRODUCT INFORMATION AND PROJECT REQUIREMENTS.

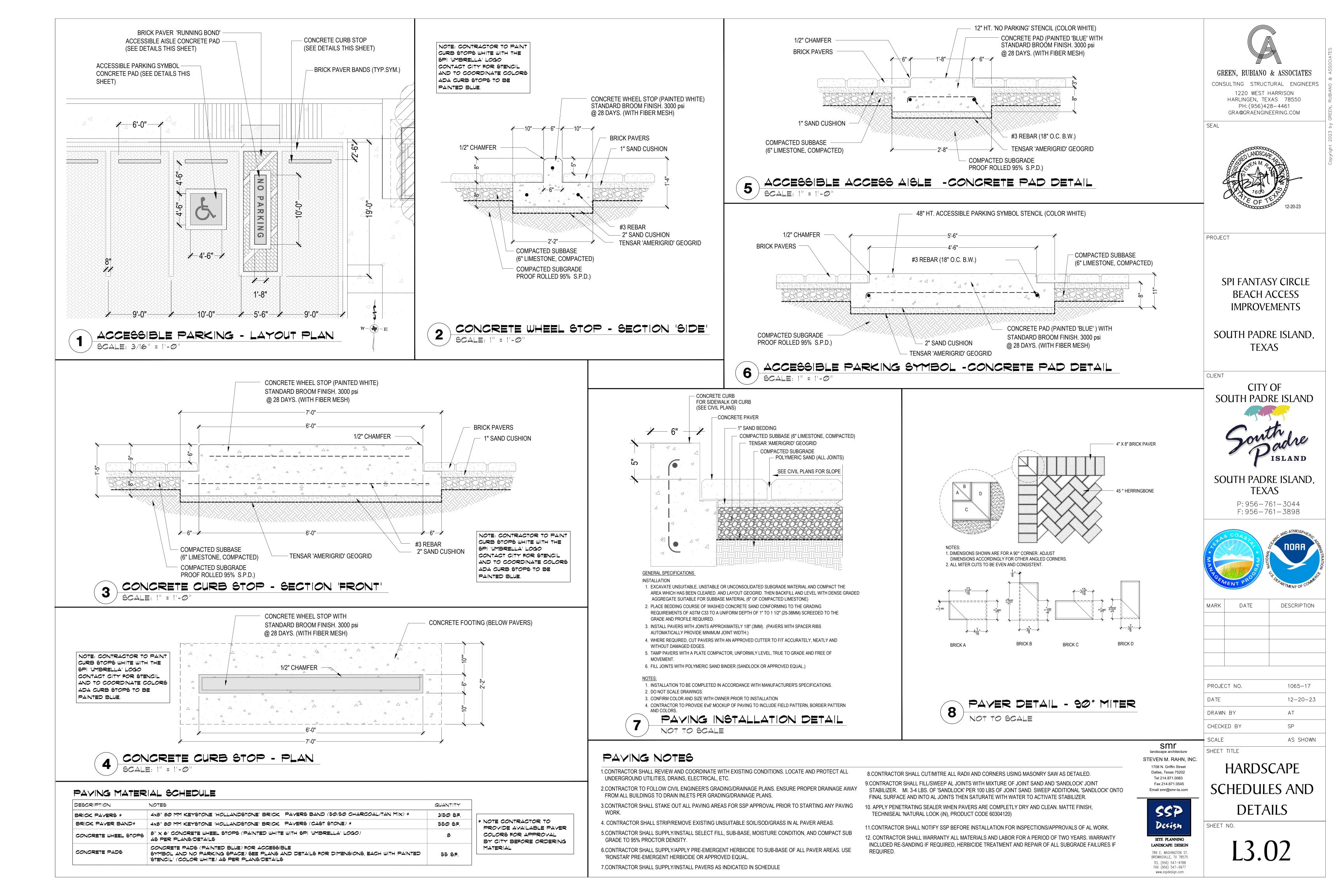


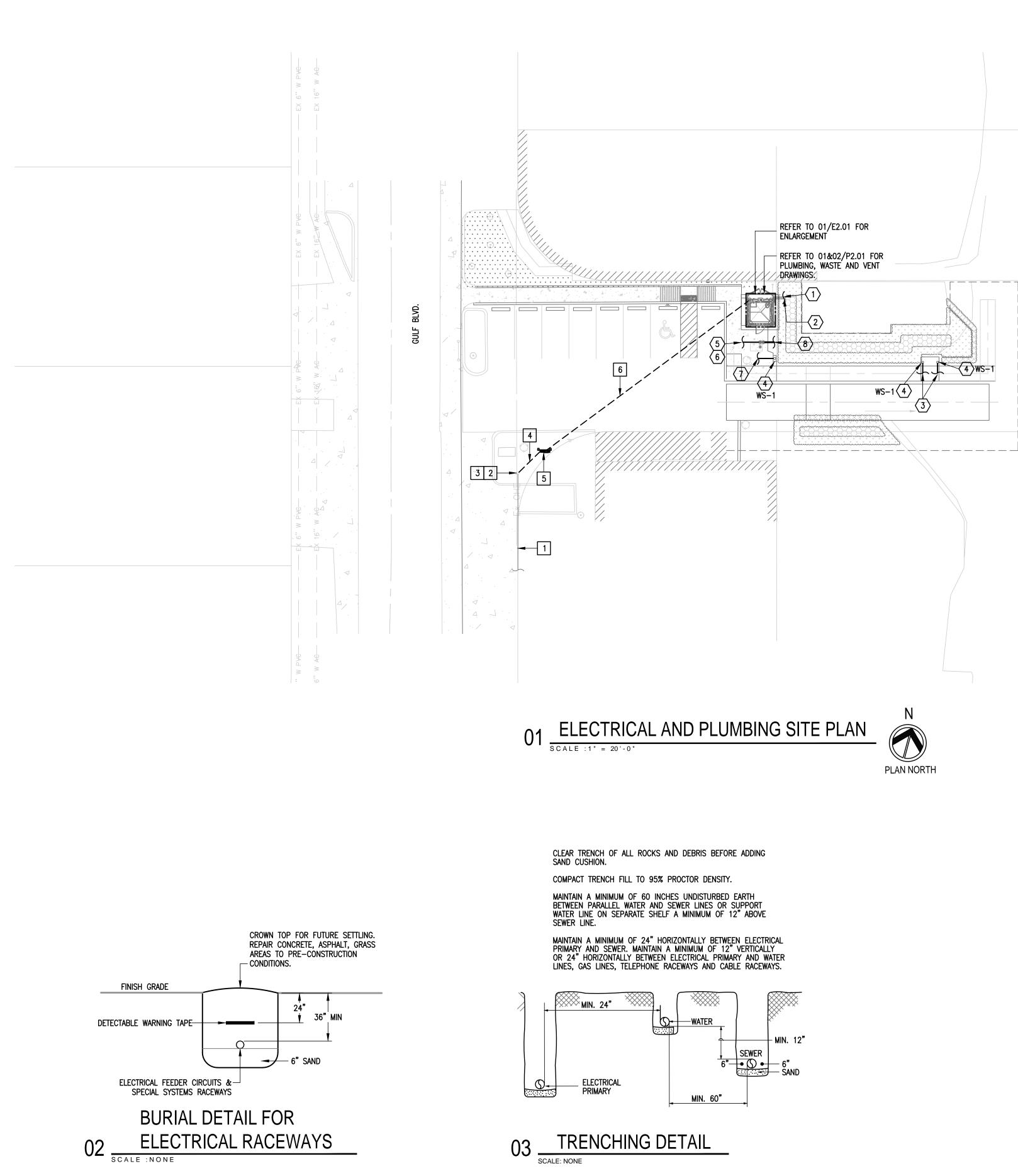
LANDSCAPE CONSTRUCTION NOTES

- I. WORK UNDER THIS CONTRACT INCLUDES SITE REVIEW AND COORDINATION WITH EXISTING CONDITIONS, SITE CLEANUP, EXCAVATION, BED PREP, TILLING, DUNE RESTORATION PLANTING, BRICK PAVERS, STAKING, IRRIGATION, MAINTENANCE, AND GUARANTEE.
- 2. LANDSCAPE CONTRACTOR SHALL FIELD VERIFY ALL QUANTITIES AND DIMENSIONS PRIOR TO BIDDING. QUANTITIES SHOWN IN SCHEDULE ARE FOR CONVENIENCE ONLY.
- 3. NOTIFY 66P DESIGN PRIOR TO BID OF ANY DISCREPANCIES IN DRAWINGS/DETAILS OR INSUFFICIENT QUANTITIES DUE TO DIFFERENCES IN PLAN AND ACTUAL FIELD CONDITIONS.
- 4. LAND&CAPE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES. SPOTTING OF ALL UTILITIES IS REQUIRED.
 5. NOTIFY AND MEET WITH S&P DESIGN PRIOR TO ANY CONSTRUCTION FOR VERIFICATION/INTERPRETATION OF PLANS.
- 6. LAND&CAPE CONTRACTOR & HALL VERIFY ALL PROPERTY BOUNDARIES AND LIMITS OF WORK WITH GENERAL CONTRACTOR/CIVIL ENGINEER. DO NOT BEGIN LAND&CAPE CONSTRUCTION UNTIL ALL BOUNDARIES, EASEMENTS AND RIGHTS-OF-WAY HAVE BEEN
- VERIFIED IN THE FIELD.
- 7. LANDGCAPE CONTRACTOR SHALL STAKE OUT ALL BEDS, TREES, PALM LOCATIONS PRIOR TO INSTALLATION FOR APPROVAL BY SSP DESIGN.
- 8. LANDSCAPE CONTRACTOR TO COORDINATE WITH SSP DESIGN TO ENSURE PROPER PLACEMENT OF PLANT MATERIAL AND IRRIGATION EQUIPMENT.
- 9, LANDSCAPE CONTRACTOR TO INSTALL EDGING AS SHOWN ON PLANS/DETAILS.
- 10. NOTIFY 66P DEGIGN PRIOR TO PLANTING OPERATIONS FOR APPROVAL OF ALL PLANT MATERIAL ON SITE. ANY PLANT MATERIAL NOT APPROVED BY 66P DEGIGN WILL BE GUBJECT TO REJECTION.
- 11. IRRIGATION CONTRACTOR SHALL SUPPLY AND INSTALL COMPLETE AUTOMATIC IRRIGATION SYSTEM INCLUDING WATER METER, BACKFLOW DEVICE, CONTROLLER, MAINLINE, SLEEVES, LATERALS, AND POP-UP HEADS, TO COVER ALL LANDSCAPE AREAS PER PLANS/DETAILS. IRRIGATION SYSTEM SHALL BE INSTALLED BY A TEXAS LICENSED IRRIGATOR ONLY.
- 12. LANDSCAPE CONTRACTOR SHALL REMOVE ALL EXISTING GRASS/WEEDS BY HERBICIDING PRIOR TO BED PREP AND SOIL REPLACEMENT.
- 13. LANDSCAPE CONTRACTOR SHALL REMOVE 12" OF EXST'G SOIL WITHIN ALL BED AREAS AND REPLACE WITH IMPORTED TOP SOIL/PREMIUM COMPOST MIX.
- 14. LANDSCAPE CONTRACTOR SHALL CONSTRUCT 6"X36" WATERING BASING AROUND ALL TREES/PALMS WITH A MIN. 2" LAYER OF MULCH. 15. LANDSCAPE CONTRACTOR SHALL LOOSEN / GRADE ALL BED AREAS PRIOR TO PLANTING TO ENSURE
- PROPER DRAINAGE AND UNIFORM SURFACE.
- 16. LANDSCAPE CONTRACTOR SHALL REMOVE ALL EXISTING GRASS AND WEEDS BY HERBICIDING, DISKING, FLOATING AND LIGHT GRADING OF ENTIRE PROJECT AREA PRIOR TO PLANTING.
- 17. LANDSCAPE CONTRACTOR SHALL ESTABLISH AND MAINTAIN ALL PLANT MATERIAL FOR 90 DAYS AFTER 'SUBSTANTIAL COMPLETION' AND SHALL GUARANTEE ALL TREES/PALMS FOR A PERIOD OF ONE YEAR.
- 18. IRRIGATION CONTRACTOR SHALL GUARANTEE ALL SYSTEM COMPONENTS FOR A PERIOD OF ONE YEAR.
- 19. SEE SPECIFICATIONS FOR FURTHER INSTRUCTIONS/REQUIREMENTS.









ELECTRICAL KEYED NOTES:

- 1 EXISTING ELECTRICAL UTILITY OVERHEAD SERVICE LINE.
- 2 EXISTING ELECTRIC UTILITY POWER POLE.
- 3 PROPOSED NEW ELECTRIC UTILITY POLE MOUNT TRANSFORMER, AND RISER DIP POLE.
- 4 PROVIDE ELECTRIC UNDERGROUND SECONDARY RACEWAY.
 - 5 PROVIDE ELECTRIC METER AND MAIN DISCONNECT.

6 PROVIDE UNDERGROUND FEEDER.

PLUMBING KEYED NOTES:

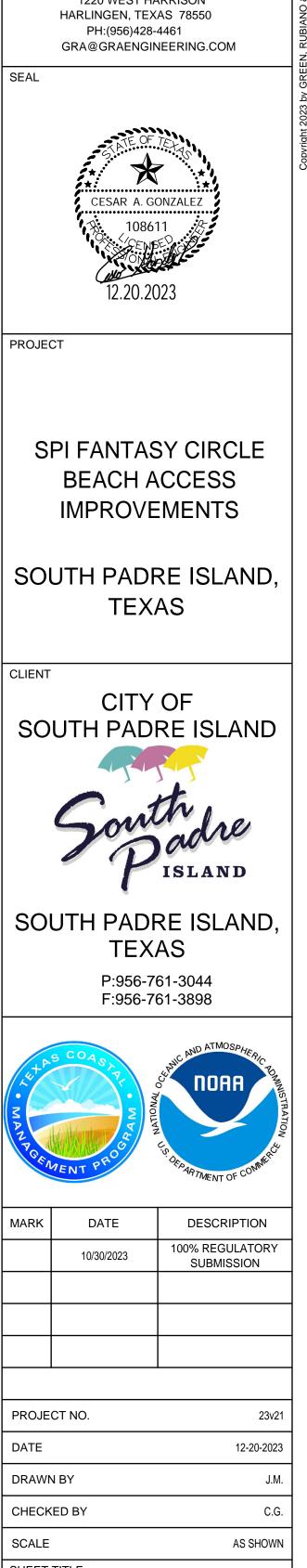
- 1 PROVIDE A 4" SANITARY SEWER CONNECTION. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
- $\langle 2 \rangle$ provide underground 1–1/4" SCH. 40 CPVC domestic water line TO SERVICE THE RESTROOM. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
- $\overline{(3)}$ BRANCH OFF WITH A 3/4" SCH. 40 CPVC WATER LINE FROM CIVIL'S DOMESTIC WATER LINE AND RISE UP BELOW WALKOVER TO SERVICE NEW WASH STATION. PROVIDE SHUTOFF VALVE AS PER SPECIFICATIONS. REFER TO CIVIL DRAWINGS FOR EXACT LOCATION OF PROPOSED DOMESTIC WATER LINE.
- $\langle 4 \rangle$ provide (WS-1) wash station. Conceal water line within a WOODEN ENCLOSURE. REFER TO 04/P3.01 FOR THE ASSOCIATED DETAIL.
- 5 PROVIDE PEDESTAL TYPE DRINKING FOUNTAIN AS SCHEDULED OR AN APPROVED EQUAL.
- (6) PROVIDE UNDERGROUND 3/4" SCH. 40 CPVC DOMESTIC WATER LINE TO SERVICE PEDESTAL TYPE DRINKING FOUNTAIN. PROVIDE GATE VALVE IN QUAZITE BOX. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
- $\langle 7 \rangle$ BRANCH OFF WITH A 3/4" SCH. 40 CPVC WATER LINE FROM CIVIL'S DOMESTIC WATER LINE TO SERVICE NEW WASH STATION. PROVIDE GATE VALVE IN QUAZITE BOX. SEE ASSOCIATED DETAIL ON DETAIL SHEET. REFER TO CIVIL DRAWINGS FOR EXACT LOCATION OF PROPOSED DOMESTIC WATER LINE.
- (8) PROVIDE NEW 2" SANITARY SEWER CONNECTION. REFER TO CIVIL DRAWINGS FOR CONTINUATION.

GENERAL NOTES:

- COORDINATE WORK AMONG ALL DISCIPLINES. IT IS NOT THE INTENT OF THESE DOCUMENTS TO DICTATE WHO MUST DO THE WORK. ALL WORK SHOWN IS THE RESPONSIBILITY OF THE (PRIME) CONTRACTOR.
- FIELD VERIFY PROJECT SITE EXISTING CONDITIONS AND ELEVATIONS PRIOR 2. TO BEGINNING ANY WORK.
- COORDINATE ELECTRICAL, AND PLUMBING WITH GENERAL CONSTRUCTION. - 3.
- PHASING AND SEQUENCE OF CONSTRUCTION SHALL BE PER ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
- 5. FIELD VERIFY/SPOT EXACT LOCATIONS AND EXISTING CONDITIONS OF EXISTING PLUMBING, AND ELECTRICAL. IT IS THE INTENT OF THESE PLANS TO PROVIDE A COMPLETE AND WORKABLE SYSTEMS. SHOULD BIDDER FIND OMISSIONS OR DISCREPANCIES IN THE PLANS, BIDDER SHALL NOTIFY THE ENGINEER PRIOR TO THE BID DATE AND A WRITTEN CLARIFICATION WILL BE ISSUED.
- DAMAGED ITEMS SHALL BE REPAIRED AT NO ADDITIONAL COST TO OWNER. 6. CONTRACTORS ARE REQUIRED TO SEARCH AND INVESTIGATE FOR EXISTING UTILITIES BEFORE EXCAVATING.
- 7. ALL MATERIALS AND LABOR, WHETHER SPECIFICALLY INDICATED ON PLANS OR NOT, WHICH ARE NECESSARY FOR THE PROPER INSTALLATION AND FUNCTION OF THE SYSTEM SHALL BE FURNISHED BY THIS CONTRACTOR. INCLUDE ALL COSTS OF CHANGES, IF/AS REQUIRED IN BID PROPOSAL.
- 8. PROVIDE J-BOXES (POLYMER CONCRETE) AS REQUIRED FOR PULL WIRING.
- 9. ELECTRICAL WIRING SHALL NOT BE SPLICED BELOW GRADE.
- 10. PERFORM ALL WORK PER LATEST VERSION OF NATIONAL ELECTRICAL CODE, AND APPLICABLE LOCAL CODES AND ORDINANCES, UNLESS DRAWINGS OR SPECIFICATIONS HAVE MORE STRINGENT REQUIREMENTS.
- 11. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS AND FEES ASSOCIATED WITH PROJECT, INCLUDING FEES FOR INSPECTIONS, APPLICATIONS, AND PROVISION OF NEW SERVICES.
- 12. CONTRACTOR WHO WILL ACTUALLY PERFORM WORK MUST APPLY FOR ALL REQUIRED PERMITS.
- 13. SEE CIVIL DRAWINGS FOR CUTTING, COMPACTING, & PATCHING.
- 14. COORDINATE ALL WORK WITH OTHER TRADES; COORDINATE SCHEDULE OF WORK WITH ALL SUB-CONTRACTORS TO ACHIEVE SMOOTH FLOW OF CONSTRUCTION.
- 15. SEAL AROUND ELECTRICAL RACEWAYS AT ALL WALLS, A/C ROOMS AND WALL LOUVER PENETRATIONS WITH FIREPROOF CAULKING. RE: SPECS. PROVIDE FLASHING AROUND PENETRATION, BOTH INSIDE AND OUTSIDE, TO PROVIDE FINISHED LOOK.
- 16. TIME OR MONEY ALLOWANCES WILL NOT BE MADE TO ACCOMMODATE UTILITY CONFLICTS THAT CAN BE REASONABLY RESOLVED BY COORDINATION DURING SHOP DRAWING PHASE.
- 17. CONTRACTOR SHALL REVIEW COMPLETE DOCUMENTS PRIOR TO SUBMITTAL OF PROPOSAL TO GAIN COMPLETE UNDERSTANDING OF PROJECT SCOPE, WORK BY OTHERS, AND ELECTRICAL WORK ASSOCIATED WITH OTHER DISCIPLINES.
- 18. MAINTAIN MANUFACTURER RECOMMENDED CLEARANCE AROUND ALL EQUIPMENT.
- 19. AFFIX ID TAGS TO ALL DIVISION 26 EQUIPMENT.
- 20. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH MECHANICAL AND PLUMBING CONTRACTOR REGARDING EQUIPMENT SIZES AND TYPES OF ELECTRICAL INTERFACE EQUIPMENT REQUIRED.
- 21. FIELD VERIFY ALL CONDITIONS AND MEASURE DIMENSIONS WITHIN THE BUILDING PRIOR TO ORDERING EQUIPMENT AND/OR PROCEEDING WITH INSTALLATION.
- 22. ALL EQUIPMENT SHALL BE FACTORY TESTED, AND CONTRACTOR SHALL VERIFY THEIR CONDITION PRIOR TO INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR EQUIPMENT DAMAGED DURING MOVING AND INSTALLATION.
- 23. EQUIPMENT FOUND DEFECTIVE PRIOR TO FINAL ACCEPTANCE SHALL BE REPLACED AT NO COST TO OWNER.
- 24. WORK TO BE DONE UNDER ALLOWANCES BECOMES AN INTEGRAL PART OF THE PROJECT AND RESPONSIBILITY OF CONTRACTOR ONCE ALLOWANCE IS APPROVED.
- 25. SLEEVE ALL EXTERIOR WALL PENETRATIONS.
- 26. CONTRACTOR SHALL NOT PROCEED WITH ANY WORK INVOLVING A CHANGE IN PROJECT SCOPE OR COST WITHOUT FIRST HAVING OBTAINED ENGINEER'S APPROVAL IN WRITING. UNLESS ENGINEER HAS AGREED TO SUCH CHANGE PRIOR TO IT BEING DONE, AND HAS AGREED THAT AN INCREASE IN COST ASSOCIATED WITH SUCH CHANGE IS WARRANTED; CONTRACTOR WILL NOT BE REIMBURSED FOR SUCH CHANGE.







SHEET TITLE

ELECTRICAL AND PLUMBING SITE PLAN

SHEET NO.

EP1.01

SCOPE OF WORK

- 1. <u>GENERAL:</u> THE FANTASY CIRCLE BEACH ACCESS IMPROVEMENTS CONSISTS OF A NEW SINGLE- STO BUILDINGS, APPROXIMATE SQUARE FOOTAGE 89FT2. THIS BUILDING WILL GENERALLY BE OPERATED FROM 8:00 TO 6:00PM. (7 DAYS A WEEK).
- 2. ELECTRICAL: PROVIDE ALL MATERIALS AND LABOR ASSOCIATED WITH COMPLETE OPERATIONAL ELECTRICAL DISTRIBUTION SYSTEM. MAJOR ITEMS OF WORK INCLUDE, BUT ARE NOT LIMITED TO: (a) ELECTRICAL SERVICE:
 - (i) PROVIDE A NEW UNDERGROUND ELECTRICAL SERVICE; IT SHALL CONSIST OF UNDERGROUND ELECTRICAL RACEWAYS AND A SUPPORT STRUCTURE FOR UTILITY METER AND MAIN DISCONNECT.
 - (ii) UTILITY COMPANY SHALL PROVIDE MEDIUM VOLTAGE CONDUCTORS AND POLE MOUNTED TRANSFORMER.
- (b) LIGHTING SYSTEMS: SHALL CONSIST OF LED TYPE WITH TIME CLOCK CONTROLS.
- (c) POWER SYSTEMS: PROVIDE MISCELLANEOUS DUPLEX RECEPTACLES AND POWER FOR IRRIGATION CONTROLLER.

ABBREVIATIONS:

A	AMPS	GALV.	GALVANIZED
ABC	ABOVE CEILING LINE	GRND.	GROUND
AC	ABOVE COUNTER BACKSPLASH	HP	HORSEPOWER
AFF	ABOVE FINISHED FLOOR	HVAC	HEATING, VENTILATION,
В.	BOTTOM		& AIR CONDITIONING
BLC.	BELOW CEILING LINE	MECH	MECHANICAL
C.	CONDUIT OR COMMON	NTS	NOT TO SCALE
CLG.	CEILING	PH	PHASE
COND.	CONDUIT	RM.	ROOM
CU.	COPPER	SS	STAINLESS STEEL
DISC.	DISCONNECT	UG	UNDERGROUND
EXT.	EXTERNAL OR EXTERIOR	UNO	UNLESS OTHERWISE NOTED
G.	GROUND	v	VOLTS
GA.	GAGE	w	WIRE

WIRING DEVICES SYMBOL LEGEND:

TORY	
00AM	

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
	DUPLEX RECEPTACLE W/ GROUND FAULT INTERRUPTING TYPE — HUBBELL MODEL #GFTWRST201 AND WHILE IN USE WEATHERPROOF COVER — HUBBELL MODEL #RW58300	18 " AFF
NOTES:		

1.) U.N.O. INDICATES UNLESS NOTED OTHERWISE.

18" AFF INDICATES TO TOP OF DEVICE; ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.

AC INDICATES 4" ABOVE COUNTER TO BOTTOM OF DEVICE.

ALL RECEPTACLES SHALL BE INSTALLED HORIZONTALLY.

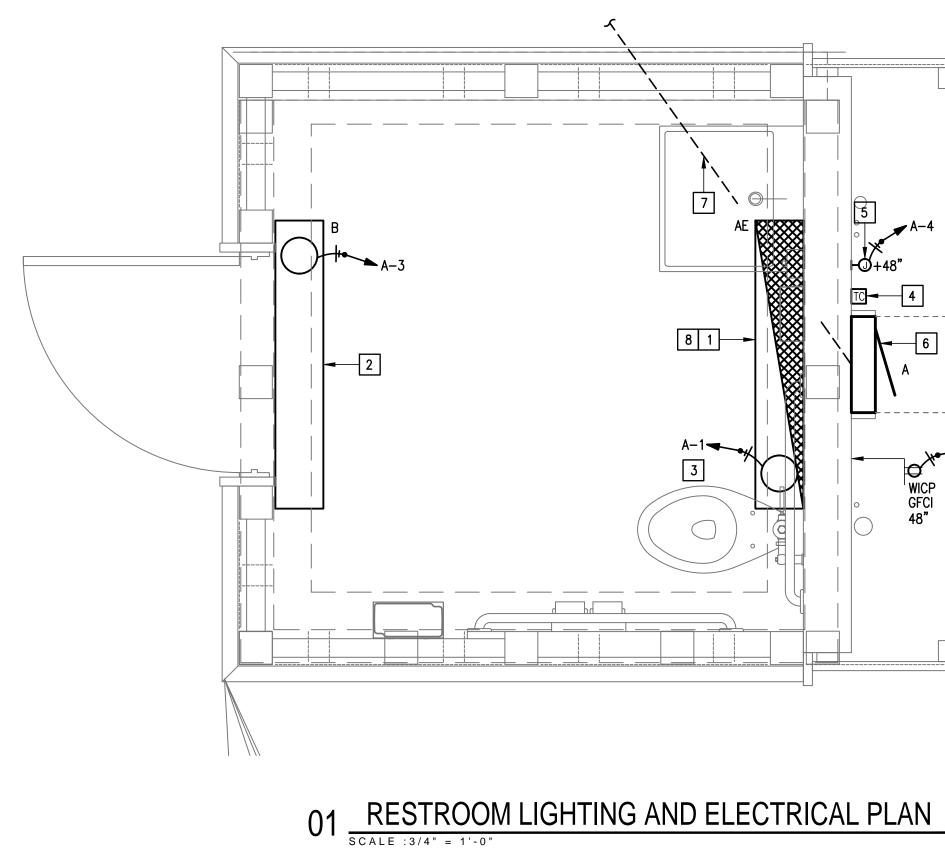
GENERAL SYMBOL LEGEND:

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
ю	JUNCTION BOX W/ BLANK COVERPLATE	AS REQUIRED
	ELECTRICAL PANELBOARD – SURFACE MOUNTED	AS REQUIRED
	UNDERGROUND RACEWAY	AS REQUIRED
	CONCEALED RACEWAY	AS REQUIRED
And	CONDUIT OR EMT HOMERUN TO PANELBOARD CONCEALED IN WALLS OR ABOVE CEILING. LONG CROSSMARKS DENOTE NUMBER OF "HOT" CONDUCTORS SHORT CROSSMARKS INDICATE NEUTRALS AND DOTS INDICATE NUMBER OF GROUND CONDUCTORS. ARROW INDICATES HOME RUN TO ELECTRICAL PANEL.	as required

LIGHTING SYMBOL LEGEND:

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
0	SURFACE/WRAPAROUND EMERGENCY LIGHT FIXTURE CONNECT BATTERY PACK TO BE ON AT ALL TIMES (UNSWITCHED)	
	SURFACE/WRAPAROUND LIGHT FIXTURE	
TC	OUTDOOR TIME CLOCK – 365 DAY, ASTRONOMICAL, 2–CHANNEL, PROGRAMMABLE, CAPABLE OF HAVING MULTIPLE SCHEDULES.	AS REQUIRED
NOTES:		

1.) REFERENCE LIGHT FIXTURE SCHEDULE FOR ALL MOUNTING HEIGHTS.

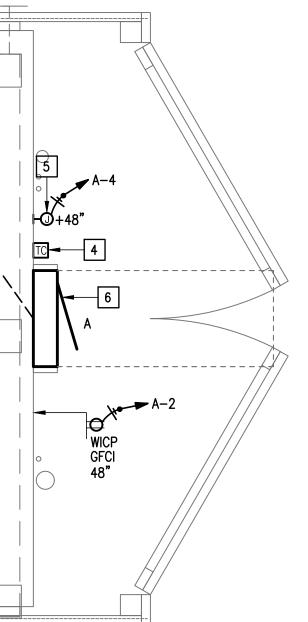


GENERAL NOTES:

- 1. ALL ELECTRICAL MATERIALS (OUTDOORS), INCLUDING BUT NOT LIMITED TO LIGHT FIXTURES, PANELBOARDS, SAFETY SWITCHES, HARDWARE (316 SS), SUPPORTING APPURTENANCES, ETC. SHALL BE SUITABLE FOR MARINE/COASTAL TYPE INSTALLATIONS.
- a. UNISTRUT PVC COATED b. HARDWARE – STAINLESS STEEL 316.
- ELECTRICAL GEAR ENCLOSURE REINFORCED FIBERGLASS.
- d. RACEWAYS ABOVE GROUND PVC SCHEDULE 80, SUNLIGHT RESISTANT. e. RACEWAYS BELOW GROUND - PVC SCHEDULE 40.
- 2. LIGHTING BRANCH CIRCUIT HOMERUNS SHALL BE 3/4" 2#12 & #12G. 20A/120V HOMERUNS EXCEEDING 100FT THE WIRE SIZE SHALL BE #10 & #8 FOR 175'.
- 3. INTERIOR LIGHTING CONTROLS SHALL BE BY TIME CLOCK.
- 4. EACH 20A/1P BRANCH CIRCUIT SHALL HAVE A DEDICATED NEUTRAL.
- PROVIDE 0-10V SIGNAL WIRING TO EACH DIMMED LIGHT FIXTURE DRIVER AND WALL 5. SWITCH.
- 6. THE INTENT IS FOR ALL LIGHTING RACEWAYS TO BE CONCEALED WITHIN WALLS AS MUCH AS POSSIBLE. WHERE RACEWAYS ARE TO BE INSTALLED SURFACE MOUNTED TO CEILINGS THEY SHALL FOLLOW THE PATCH INDICATED ON THE ARCHITECTURAL DRAWINGS. PRIOR TO ROUGH-IN OF ANY LIGHTING RACEWAY A SHOP DRAWINGS INDICATING ALL ROUTES SHALL BE SUBMITTED FOR APPROVAL

ELECTRICAL KEYED NOTES:

- 1 CONNECT EMERGENCY BATTERY PACK TO BE CHARGING AT ALL TIMES (UNSWITCHED). LIGHT FIXTURE SHALL BE OPERATED BY TIME CLOCK. MOUNT AS HIGH AS POSSIBLE TYPICAL.
- 2 LIGHT FIXTURE SHALL BE OPERATED BY TIME CLOCK (SUNSET TO SUNRISE) - MOUNT FIXTURE AS HIGH AS POSSIBLE -TYPICAL.
- 3 SWITCH VIA TIME CLOCK. THE INTENT IS FOR LIGHT FIXTURE TO BE "ON" FROM SUNRISE TO SUNSET TYPICAL.
- 4 PROVIDE TIME CLOCK.
- 5 CONNECT IRRIGATION CONTROLLER.
- 6 PROVIDE PANELBOARD SEE SCHEDULE.
- 7 UNDERGROUND FEEDER.
- 8 CONTROLLED BY TIME CLOCK (SUNRISE TO SUNSET).











SEAL

SPI FANTASY CIRCLE **BEACH ACCESS** IMPROVEMENTS

SOUTH PADRE ISLAND, TEXAS





SOUTH PADRE ISLAND, TEXAS

P:956-761-3044 F:956-761-3898



MARK	DATE	DESCRIPTION
	10/30/2023	100% REGULATORY SUBMISSION
PROJE	CT NO	23v21

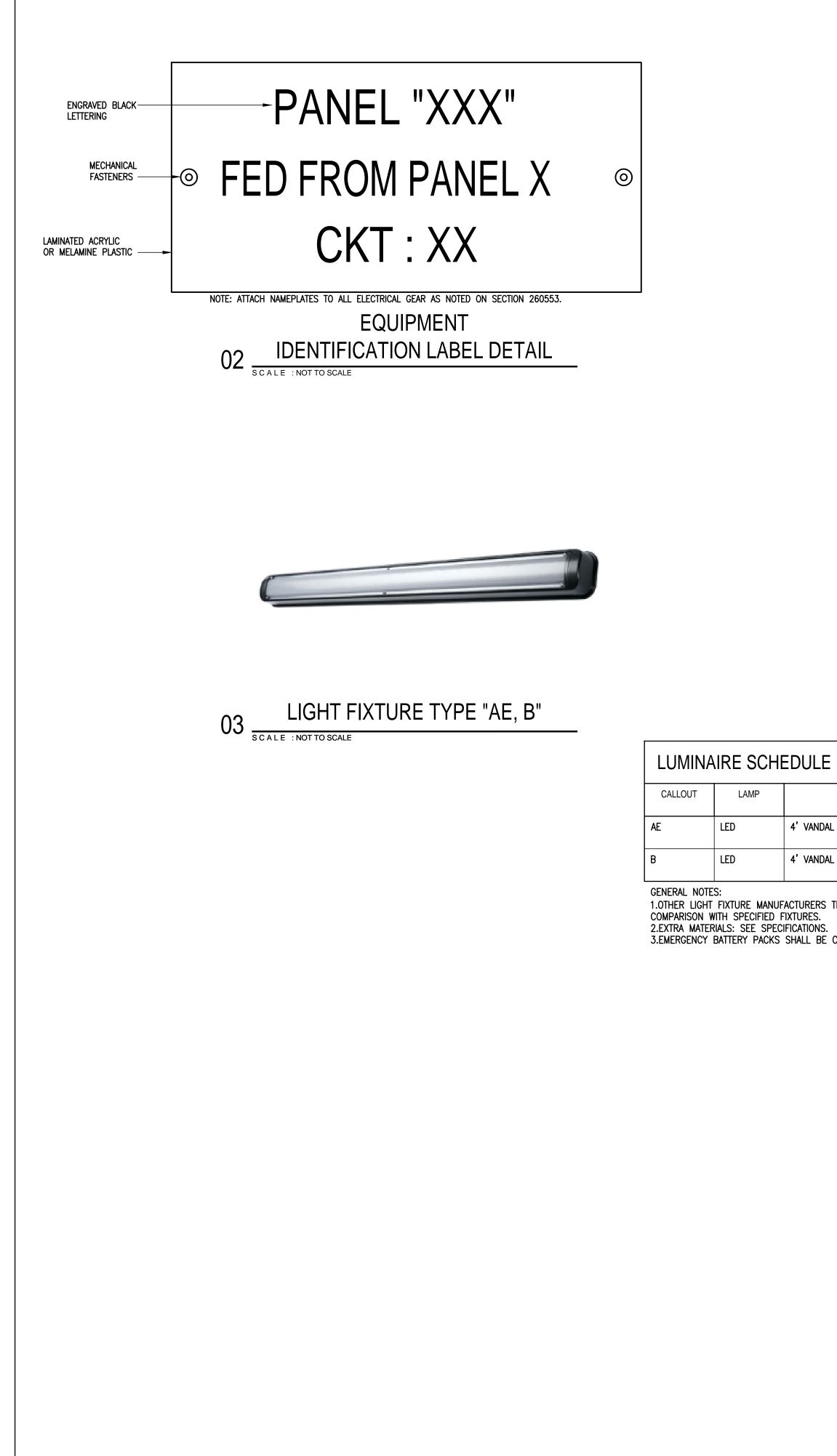
PROJECT NO.	23v21
DATE	12-20-2023
DRAWN BY	J.M.
CHECKED BY	C.G.
SCALE	AS SHOWN

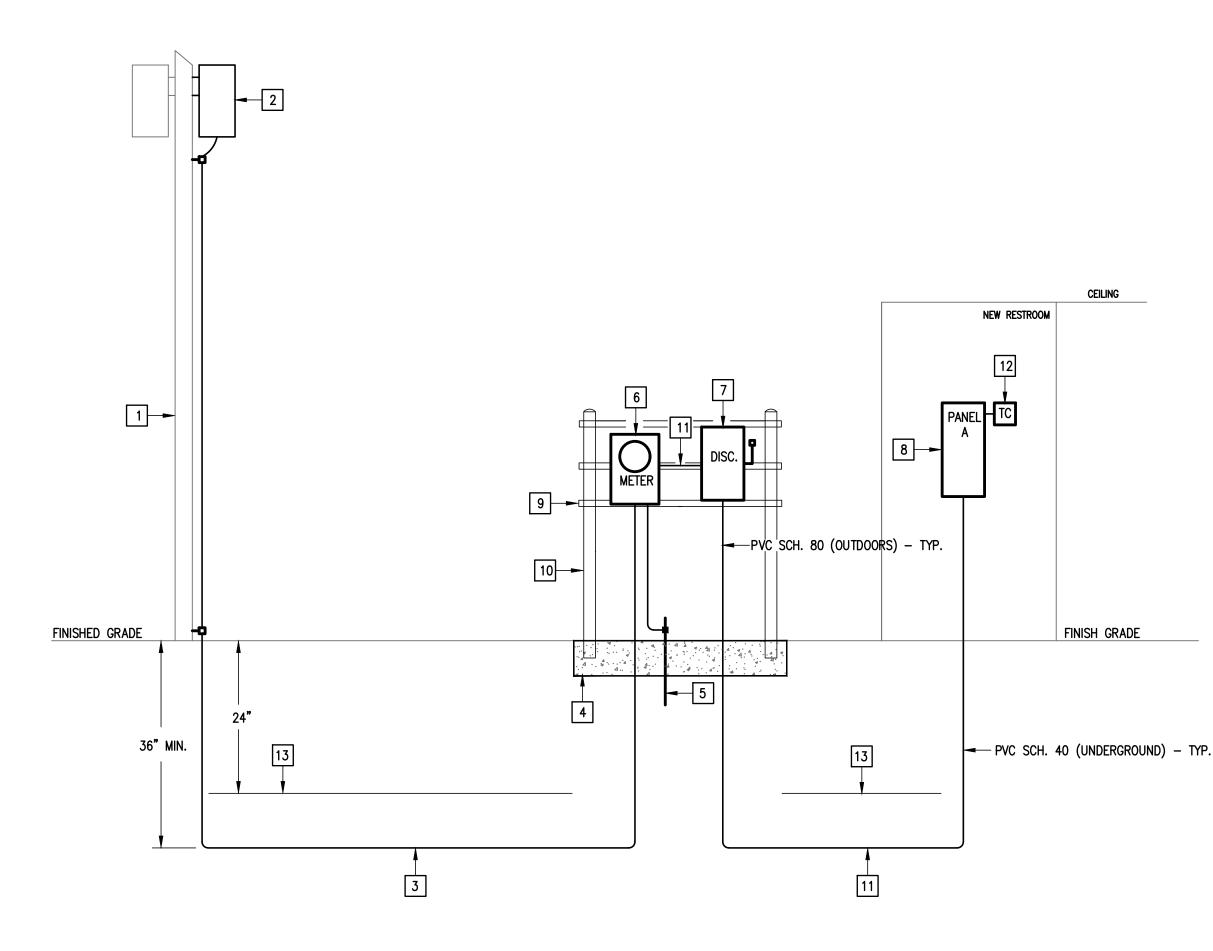
SHEET TITLE

RESTROOM LIGHTING AND ELECTRICAL PLAN

SHEET NO.







ELECTRICAL RISER DIAGRAM 01 SCALE: NOT TO SCALE

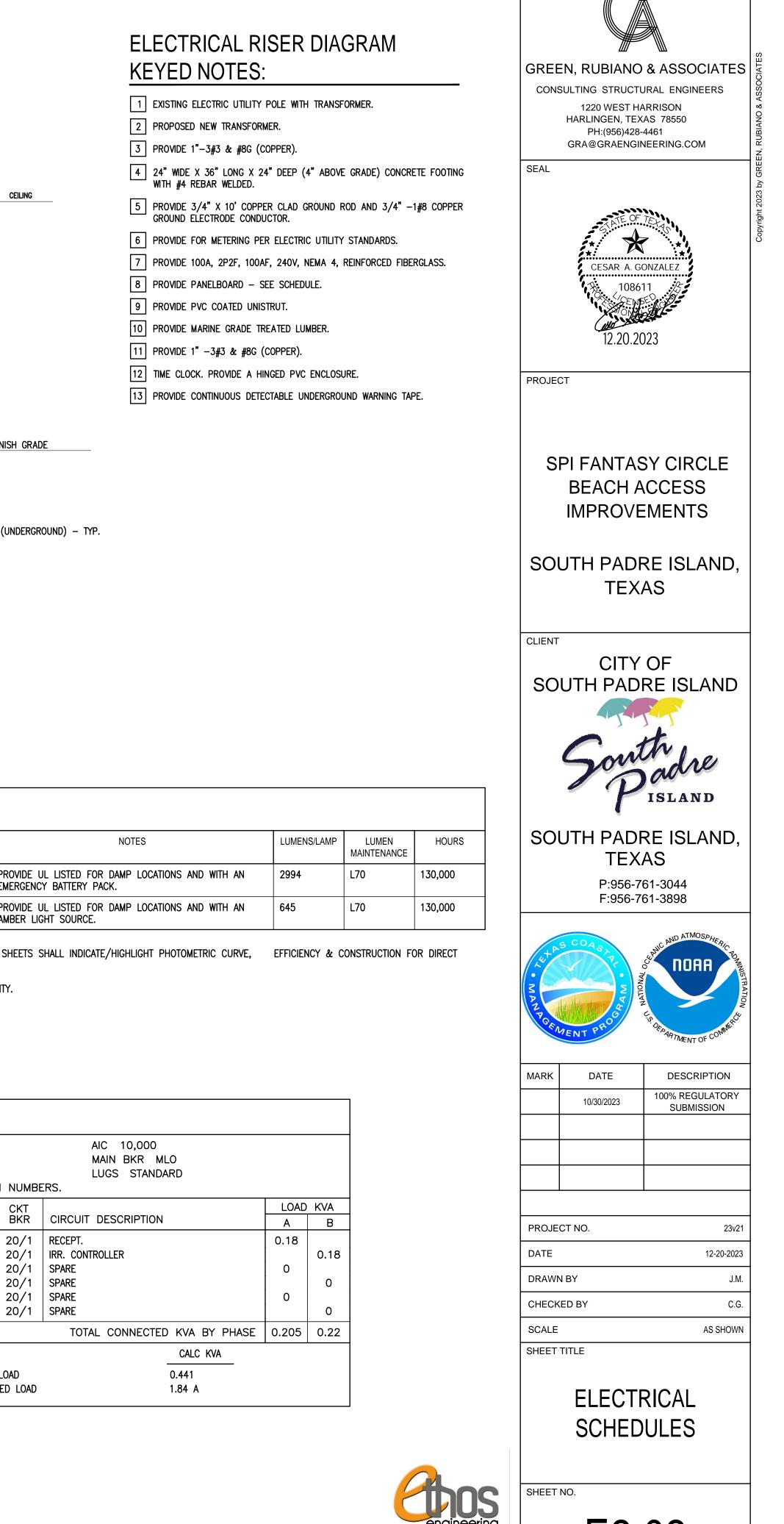
DESCRIPTION	DRIVER	MOUNTING	MODEL	INPUT WATTS	VOLTS	
4' VANDAL RESISTANT WRAPAROUND	0-10V	SURFACE	LUMINAIRE LED: VPF4 4FT MIN1 25W 4000K MVOLT CLP X EMB310	25	120V 1P 2W	PRO\ EMEF
4' VANDAL RESISTANT WRAPAROUND	DRIVER	SURFACE	LUMINAIRE LED: VPF4 4FT NODIM 40W AMB 120-277 CLP X	40	120V 1P 2W	PROV AMBE

1.OTHER LIGHT FIXTURE MANUFACTURERS THAN THOSE LISTED ON THIS SCHEDULE ARE REQUIRED TO OBTAIN PRIOR APPROVAL BY SUBMITTING CUT SHEETS OF THEIR SUBSTITUTIONS AT LEAST (10) DAYS PRIOR TO BID. CUT SHEETS SHALL INDICATE/HIGHLIGHT PHOTOMETRIC CURVE, EFFICIENCY & CONSTRUCTION FOR DIRECT

3.EMERGENCY BATTERY PACKS SHALL BE COMPLETE FACTORY INSTALLED WITH NI-CAD BATTERY, CHARGER INDICATING LIGHT, ELECTRONIC CIRCUITRY, 1400 LUMENS OUTPUT, 90 MINUTES DURATION & FIVE FULL YEARS WARRANTY.

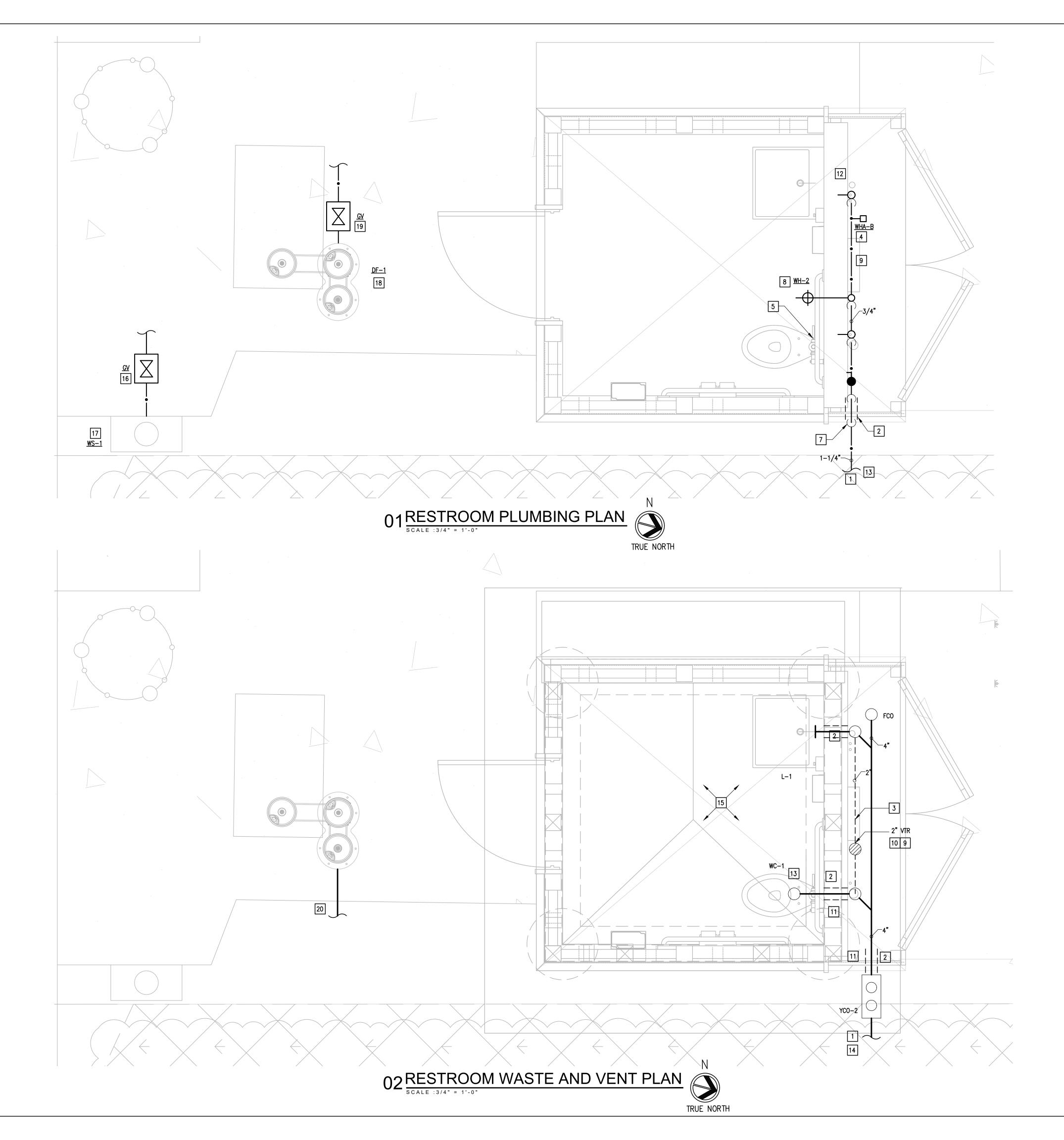
Α											
ROOM MOUN FED NOTE	ITING SI FROM U	URFACE TILITY DE A TYPE	WRITTEN AS	BUS NEL	.TS 240/12 5 AMPS 100 JTRAL 100% TORY THAT I);		M NUMBE	AIC 10,000 MAIN BKR MLO LUGS STANDARD ERS.		
СКТ	СКТ				LOAD	LOAD KVA		СКТ		LOAD KVA	
#	BKR	CIRCUIT	DESCRIPTION		A	В	#	BKR	CIRCUIT DESCRIPTION	A	В
1	20/1	LIGHTING			0.025		2	20/1	RECEPT.	0.18	
3	20/1	LIGHTING				0.04	4	20/1	IRR. CONTROLLER		0.18
5	20/2	SPARE			0		6	20/1	SPARE	0	
7						0	8	20/1	SPARE		0
9	20/2	SPARE			0		10	20/1	SPARE	0	
11						0	12	20/1	SPARE		0
		•							TOTAL CONNECTED KVA BY PHASE	0.205	0.22
			CONN KVA	CALC KVA		•	•		CALC KVA	•	•
LIGHTING 0.065 0.081 (1			- (125 %)	25%) TOTAL L			0.441	0.441			
	PTACLES		0.36	0.36	(50%>10)			CED LOAD	1.84 A		

PROVIDE NEMA 4 (REINFORCED FIBERGLASS) ENCLOSURE.









GENERAL NOTES:

- 1. HANGERS SHALL BE STAINLESS STEEL. REFER TO SPECIFICATIONS FOR MORE DETAILS. 2. BALL VALVES AND DOMESTIC WATER PIPING SHALL BE SCH. 40 CPVC. REFER TO SPECIFICATIONS FOR MORE DETAILS.

PLUMBING KEYED NOTES:

- 1 REFER TO MEP SITE PLAN FOR CONTINUATION.
- 2 SLEEVE ALL GRADE BEAMS, FLOOR SLABS AND MASONRY WALL PENETRATIONS PER DETAIL WHETHER SPECIFICALLY INDICATED ON PLANS OR NOT.
- 3 MOUNT CPVC DOMESTIC WATER PIPING AND PVC VENT PIPING TO THE MASONRY WALL.
- 4 PROVIDE WATER HAMMER ARRESTOR (WHA), MIFAB OR APPROVED EQUAL. INDICATED MODEL (A,B,C,D,E,F) AS PER MIFAB SIZING CHART. PROVIDE 12"X12" ACCESS PANEL WHERE INSTALLED IN AN INACCESSIBLE AREA. ACCESS PANEL EQUAL TO ACUDOR MODEL UF5000 WITH CYLINDER LOCK AND KEY AND PAINT TO MATCH THE WALL/CEILING. (TYPICAL)
- 5 INSTALL WATER CLOSET FLUSH VALVE HANDLE TOWARDS WIDE SIDE OF THE ROOM. COORDINATE WITH GENERAL CONTRACTOR. (TYPICAL)
- 6 PROVIDE CPVC BALL VALVE IN LINE OF WATER ENTRANCE. SEE ASSOCIATED DETAIL ON DETAIL SHEET.
- 7 PROVIDE 1" CLOSED-CELL INSULATION WITH METAL JACKET ON EXPOSED PIPING. PENETRATE EXTERIOR WALL AS LOW AS POSSIBLE. TURN DOWN TO UNDERGROUND.
- 8 PROVIDE WALL HYDRANT AS SCHEDULED. PROVIDE CLOSE COUPLED HYDRANT TO ENSURE PIPE TURNS UP INSIDE BLOCK WALL. COORDINATE WALL THICKNESS WITH WALL HYDRANT MANUFACTURER DATA. (TYPICAL)
- 9 PAINT ALL EXPOSED PIPING TO MATCH ARCHITECTURAL FINISHES.
- 10 PROVIDE 2" VENT TO 2" VENT THRU ROOF.
- 11 RUN SANITARY SEWER BELOW GRADE BEAMS.
- 12 CAP HOT WATER LAVATORY FAUCET LINE. HOT WATER WILL NOT BE SUPPLIED.
- 13 PROVIDE NEW UNDERGROUND 1-1/4" SCHEDULE 40 CPVC WATER LINE.
- 14 PROVIDE NEW 4" SANITARY SEWER PIPE. REFER TO MEP SITE PLAN FOR SITE LOCATION.
- 15 STRUCTURAL FOUNDATION SHOWN FOR REFERENCE AND COORDINATION PURPOSES. REFER TO STRUCTURAL DRAWINGS FOR MORE DETAILS. (TYPICAL)
- 16 BRANCH OF WITH A 3/4" SCH, 40 CPVC WATER LINE FROM CIVIL'S DOMESTIC WATER LINE TO SERVICE NEW WASH STATION (WS-1). PROVIDE GATE IN QUAZITE BOX. REFER TO CIVIL DRAWINGS FOR EXACT LOCATION OF PROPOSED DOMESTIC WATER LINE.
- 17 PROVIDE WASH STATION (WS-1). CONCEAL WATER LINE WITHIN A WOODEN ENCLOSURE. REFER TO 04/P3.01 FOR ASSOCIATED DETAIL.
- 18 PROVIDE PEDESTAL TYPE DRINKING FOUNTAIN (DF-1) AS SCHEDULED OR AN APPROVED EQUAL.
- 19 PROVIDE UNDERGROUND 3/4 SHC. 40 CPVC DOMESTIC WATER LINE TO SERVICE PEDESTAL TYPE DRINKING FOUNTAIN. PROVIDE GATE VALVE IN QUAZITE BOX. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
- 20 PROVIDE NEW 2" SANITARY SEWER PIPE TO SERVE PEDESTAL TYPE DRINKING FOUNTAIN. REFER TO MEP SITE PLAN FOR SITE LOCATION AND REFER TO CIVIL DRAWINGS FOR CONNECTION AND CONTINUATION.



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CESAR A. GONZALEZ

108611

12.20.2023

SPI FANTASY CIRCLE

BEACH ACCESS

IMPROVEMENTS

SOUTH PADRE ISLAND,

TEXAS

CITY OF

SOUTH PADRE ISLAND

SOUTH PADRE ISLAND,

TEXAS

DATE

10/30/2023

MARK

PROJECT NO.

P:956-761-3044 F:956-761-3898

ISLAND

DESCRIPTION

100% REGULATORY

SUBMISSION

23v21

12-20-2023

AS SHOWN

MO/GV J.M.

C.G. C.G.

SEAL

PROJECT

CLIENT

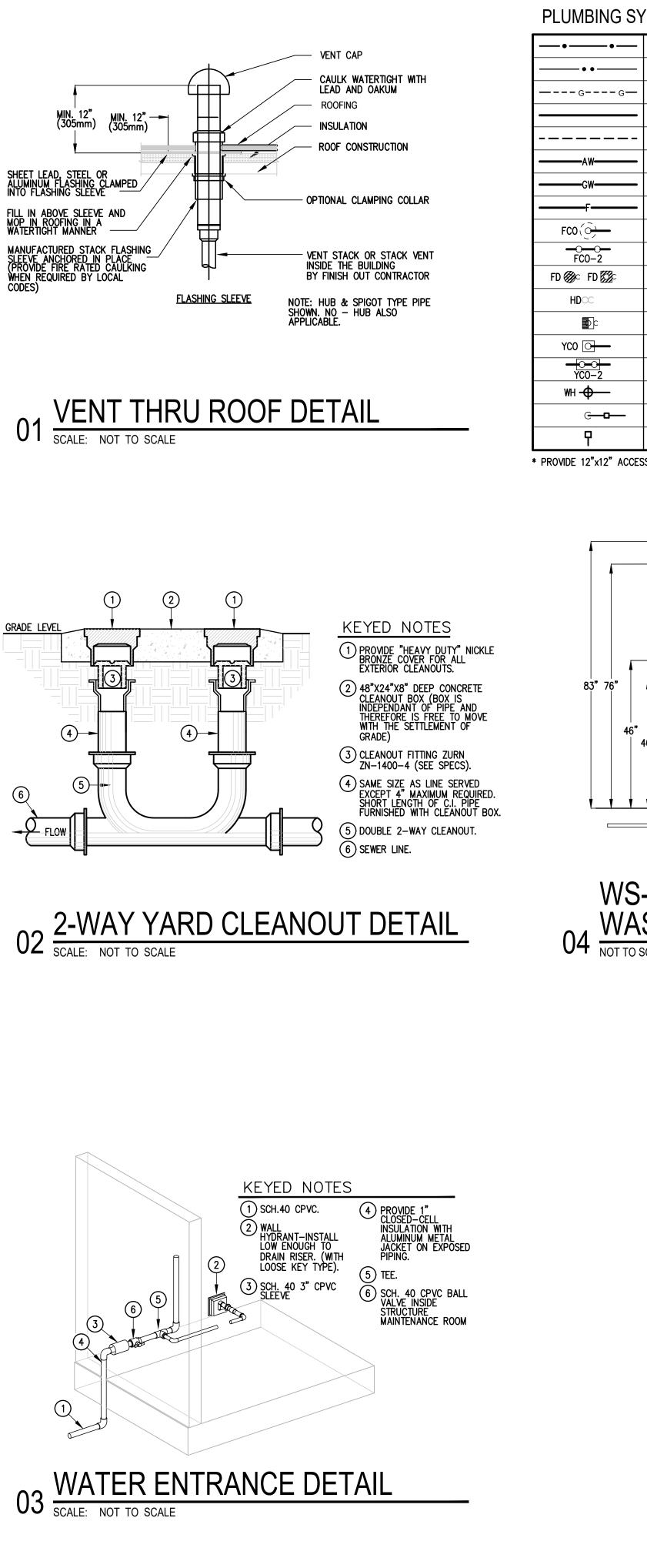


PLUMBING SYMBOLS LEGEND

-AW-

Dc

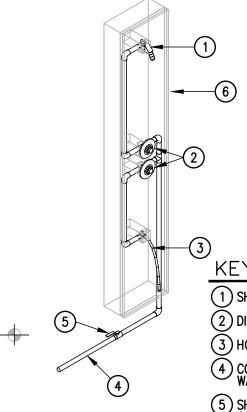
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╶─15**"**─► -(1)**-(6)** 83"76" 46' (4)**WS-1** 04 WASH STATION DETAIL

COLD WATER SUPPLY	wco I 	WALL CLEANOUT
HOT WATER SUPPLY		*GATE VALVE (GV)
GAS LINE	●┘	*BALL VALVE
SOIL & WASTE LINE - ENLARGED PLANS	- A	VALVE IN RISER TYPE AS NOTED
VENT LINE - ENLARGED PLANS	WC	WATER CLOSET
ACID WASTE LINE - ENLARGED PLANS	UR	URINAL
GREASE WASTE LINE - ENLARGED PLANS	L	LAVATORY
FIRE SPRINKLER LINE	SK	SINK
FLOOR CLEANOUT	EDF	ELECTRIC DRINKING FOUNTAIN
FLOOR CLEANOUT - 2 WAY	MSB	MOP SERVICE BASIN
FLOOR DRAIN (FD) WITH DEEP SEAL TRAP	EESHR	EMERGENCY EYE/SHOWER
HUB DRAIN WITH DEEP SEAL TRAP	TP	TRAP PRIMER
FLOOR SINK	EWH	ELECTRIC WATER HEATER
YARD CLEANOUT	VTR	VENT THRU ROOF
YARD CLEANOUT - 2 WAY	со	CLEANOUT
WALL HYDRANT	A.F.F.	ABOVE FINISH FLOOR
TRAP PRIMER	ADT	ACID DILUTION TANK
*WATER HAMMER	GT	GREASE TRAP

* PROVIDE 12"x12" ACCESS PANEL WHERE INSTALLED IN AN INACCESSIBLE AREA.



KEYED NOTES 1) SHOWER HEAD AS SCHEDULED 2) DIVERTER VALVE AS SCHEDULED 3) Hose BIBB with Flexible Hose (4) CONCEALED SCH. 40 CPVC WATER LINE

5 SHUTOFF VALVE BY PLUMBING CONTRACTOR.

6 WOOD ENCLOSURE BY OTHERS

-	MANUFACTURER &	mprovement	CONNECTIONS						
MARK	MODEL NUMBER	DESCRIPTION		VENT	CW	HW	NOTES	REMARKS	
WC-1	AMERICAN STANDARD 3461.001 5901.100 SEAT (1" THICK) SLOAN ROYAL #111-1.28	16-1/2" FLOOR MOUNTED, ELONGATED BOWL, HIGH EFFICIENCY, LOW CONSUMPTION FLUSH VALVE, WHITE VITREOUS CHINA WATER CLOSET WITH SIPHON JET ACTION BOWL, 1.28 GPF TOP FLUSH VALVE, WHITE OPEN FRONT TOILET SEAT LESS COVER AND BOLT CAPS. ADULT ADA MOUNTING.	4"	2"	1"	-	1,2	18" TO TOP OF SEA	
L-1	KOHLER K2314-1 CHICAGO FAUCET #410-T41E2805ABCP 0.5 GPM AERATOR MOUNTING BRACKET K-9583 17 GA. DRAIN AND 17 GA. P-TRAP W/CLEAN OUT TRUEBRO KIT	24" X 24" WALL MOUNTED SQUARE SHALLOW BASIN, 4" SINGLE FAUCET HOLES LAVATORY. SINGLE LEVER,, CHROME PLATED SUPPLY STOPS WITH STAINLESS STEEL FLEXIBLE CONNECTORS, CHROME PLATED DRAIN GRID AND TAILPIECE. DECK MOUNTED, SINGLE LEVER FAUCET WITH SINLGE HOLE MOUNTING ON CENTER WITH THERMOSTATIC MIXING CARTRIDGE, SET AT NO MORE THAN 105 DEGREES FAHRENHEIT AND MOUNTING BRACKET	2"	2"	1/2"	1/2"	3	SEE ARCHITECTURA	
WS-1	ZURN Z7000-i2 CENTRAL BRASS COMPANY 0336-N2-1/2	OUTDOOR BUILT-IN 1.25 GPM WATER SAVER FLOW SHOWER HEAD WITH CHROME PLATED FINISH, VANDAL RESISTANT, WITH 2 SLOW- CLOSE STRAIGH STOP VALVES AND STAINLESS STEEL HOSE.			1/2"				
DF-1								TBD	
WH-1	ZURN # Z1300-SS-34UN	ENCASED ANTI-SIPHON AUTOMATIC DRAINING WALL HYDRANT FOR FLUSH INSTALLATION. COMPLETE WITH NON-FREEZE TYPE INTEGRAL BACKFLOW PREVENTER, BRONZE CASING, ALL BRONZE INTERIOR PARTS, NON-TURNING OPERATING ROD WITH FREE-FLOATING COMPRESSION CLOSURE VALVE, REPLACEABLE BRONZE SEAT AND SEAT WASHER. STAINLESS STEEL BOX AND HINGED COVER WITH OPERATING KEY LOCK AND "WATER" CAST ON COVER.	-	_	3/4"	-	-		

NOTES:

- 1. PROVIDE CARRIER MODEL ZURN #Z1231-D FOR BACK TO BACK WALL MOUNTED LAVATORIES.
- 2. PROVIDE OFFSET TAILPIECE FOR ALL ADA SINKS.
- 3. MANUFACTURER AND MODEL NUMBER ARE "OR APPROVED EQUAL".
- 4. INSTALL FLUSH VALVE ON THE WIDE SIDE OF STALL.

GENERAL NOTES:

- 1. ALL PLUMBING WORK SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES AS ADAPTED AND AMENDED BY THE INSPECTING AUTHORITIES.
- 2. DRAWING IS DIAGRAMMATIC ONLY. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF PIPING, DEVICES AND EQUIPMENT WITH BUILDING ELEMENTS AND THE WORK OF OTHER TRADES.
- 3. ALL PLUMBING WORK SHALL BE INSTALLED SO AS TO AVOID CONFLICT WITH THE WORK OF OTHER TRADES. COORDINATE WITH MECHANICAL, ELECTRICAL AND STRUCTURAL FOR PROPER CLEARANCES.
- 4. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASING AND SEQUENCE OF CONSTRUCTION WORK.
- 5. COORDINATE WORK AMONG ALL DISCIPLINES. IT IS NOT THE INTENT OF THESE DOCUMENTS TO DICTATE WHO MUST DO THE WORK. ALL WORK SHOWN IS THE RESPONSIBILITY OF THE PRIME CONTRACTOR.
- 6. SLEEVE ALL OUTSIDE WALLS, FOUNDATION GRADE BEAMS, INTERIOR WALL PENETRATIONS, AND FIRE SEAL ALL PENETRATION THROUGH FIRE WALLS AND FLOORS WHETHER SHOWN ON PLANS OR NOT.
- 7. RECORD INVERT ELEVATIONS OF ALL YARD CLEAN OUT (YCO) ON "AS-BUILT" DRAWINGS.
- 8. PROVIDE SHUT-OFF VALVES (STOPS) ON ALL ROUGH-INS TO FIXTURES AND EQUIPMENTS.
- 9. PROVIDE WATER HAMMER ARRESTORS AS INDICATED ON THE DRAWINGS. AIR CHAMBERS NOT AN APPROVED SUBSTITUTE 10. PROVIDE ANY BACKFLOW PREVENTION DEVICE REQUIRED BY CODE OR LOCAL AUTHORITIES. CONTRACTOR SHALL VERIFY THIS WITH CITY AND LOCAL AGENCIES AND INCLUDE COST IN BID. CONTRACTOR TO HAVE BACK FLOWS CERTIFIED.
- 11. REFER TO PLUMBING FIXTURE ROUGH-IN SCHEDULE FOR INDIVIDUAL PIPE CONNECTIONS TO FIXTURES.
- 12. PRIOR TO POURING FOUNDATION AND ERECTING WALLS, COORDINATE INSTALLATION OF PLUMBING FIXTURE CARRIERS WITH GENERAL CONTRACTOR.
- 13. STUDS AT DRY WALLS SHALL NOT BE CUT THRU HORIZONTAL DIRECTION. COORDINATE WITH DRY WALL CONTRACTOR.
- 14. CONTRACTOR SHALL NOT CUT ANY EXTERIOR WALL STUD.

(APPLY TO ALL PLUMBING SHEETS)



GREEN, RUBIANO & ASSOCIATES CONSULTING STRUCTURAL ENGINEERS 1220 WEST HARRISON HARLINGEN, TEXAS 78550 PH:(956)428-4461 GRA@GRAENGINEERING.COM SEAL × CESAR A. GONZALEZ 108611 12,20,2023 PROJECT SPI FANTASY CIRCLE **BEACH ACCESS IMPROVEMENTS** SOUTH PADRE ISLAND, TEXAS CLIENT CITY OF SOUTH PADRE ISLAND ISLAND SOUTH PADRE ISLAND, TEXAS P:956-761-3044 F:956-761-3898 MARK DATE DESCRIPTION 100% REGULATORY 10/30/2023 SUBMISSION

PROJECT NO. 23v21 DATE 12-20-2023 DRAWN BY MO/GV J.M. C.G. C.G. CHECKED BY

AS SHOWN

SHEET TITLE

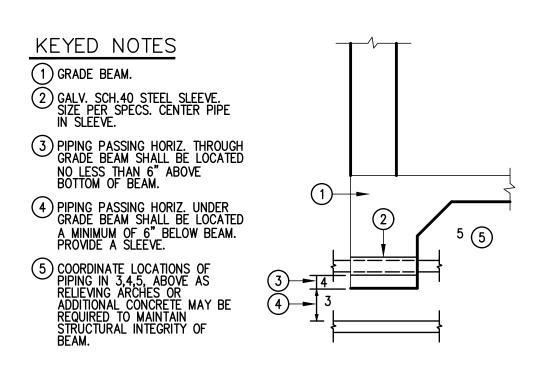
PLUMBING SCHEDULES AND DETAILS

P3.01

SHEET NO.

SCALE





03 GRADE BEAM SLEEVE DETAIL







