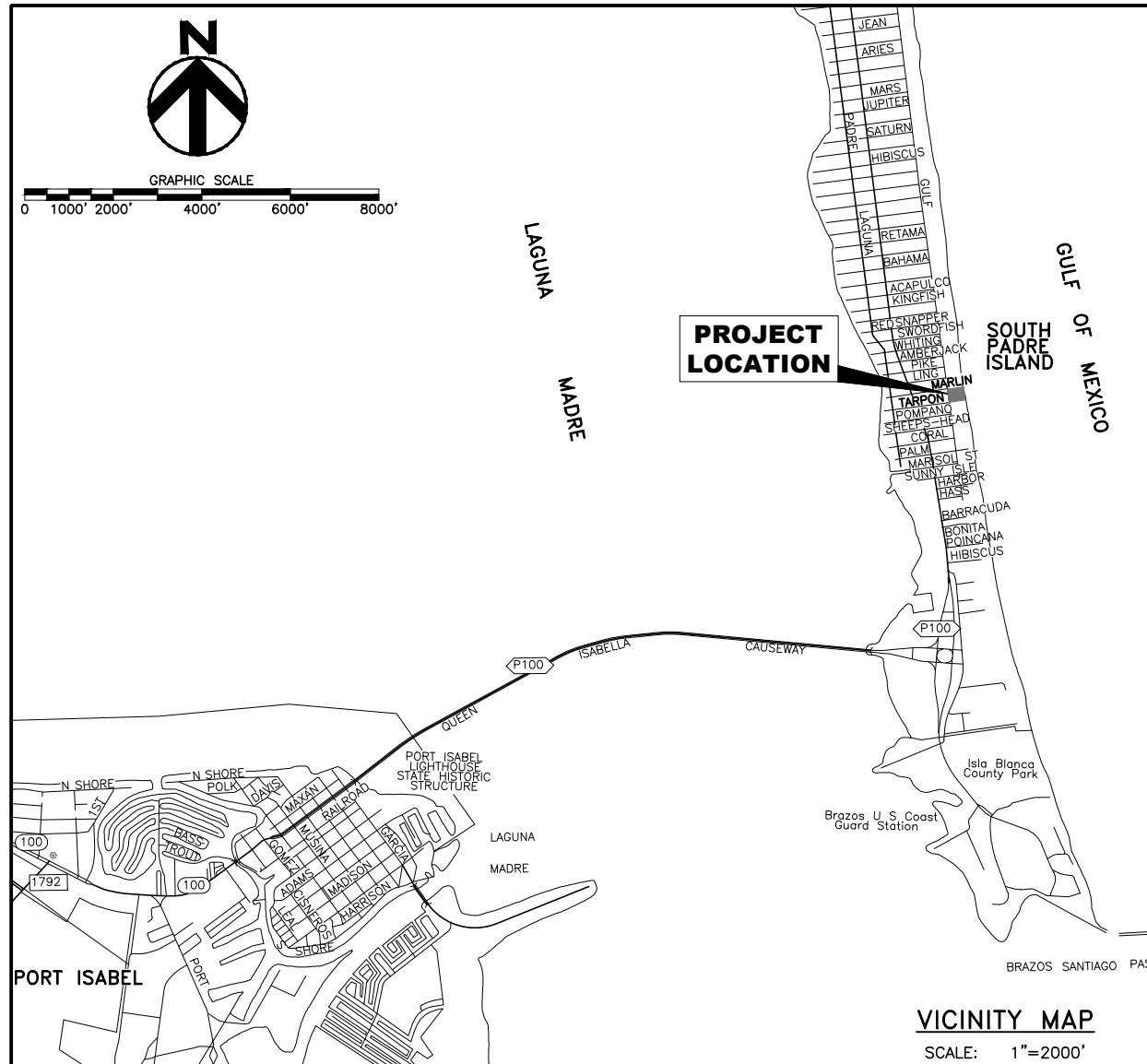
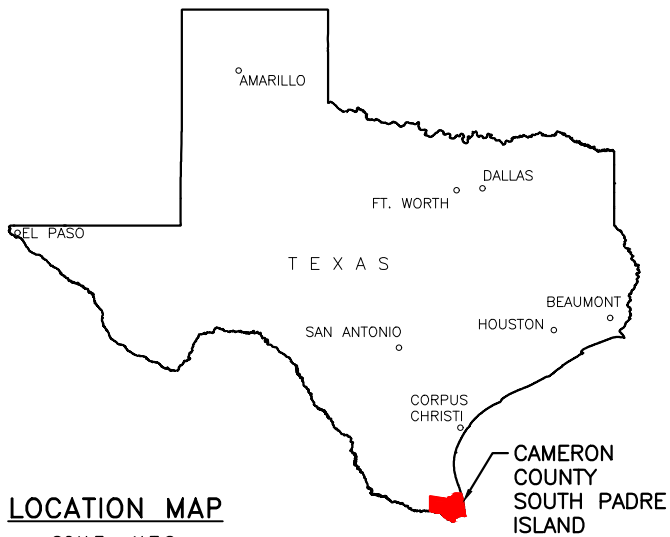
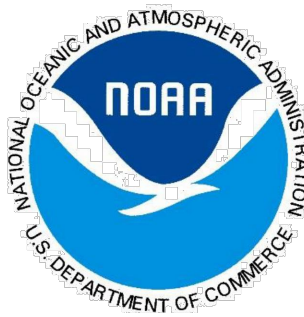




LJA ENGINEERING
 TEXAS ENGINEERING FIRM F-1386
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 Corpus Christi, Texas 78411
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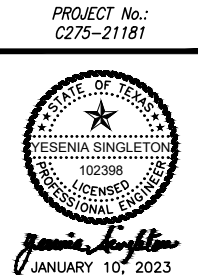
CONSTRUCTION PLANS FOR SOUTH PADRE ISLAND, TEXAS 2300 GULF BOULEVARD SEA ISLAND CIRCLE BEACH ACCESS AMENITY IMPROVEMENTS

TDLR REGISTRATION No. TABS2023004564



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SEA ISLAND CIRCLE
 BEACH ACCESS AMENITY IMPROVEMENTS
 2300 GULF BOULEVARD
 SOUTH PADRE ISLAND, TEXAS 78597

SCALE: AS NOTED
 DRAWN BY: MF
 APPROVED BY: YS
 DATE:
 JOB NO. C275-21181

T1

R:\CLIENTS\city of south padre - 275\21181 - sea island circle amenities\CAD\TITLE SHEET.dwg mquerra Tue, Jan 10 2023 @ 4:15:10 pm

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Know what's below. Call before you dig. 811

PARTICIPANTS REQUEST 48 HOURS NOTICE BEFORE YOU DIG, DRILL, OR BLAST. STOP AND CALL

THE LONE STAR NOTIFICATION COMPANY AT 1-800-669-8344

JANUARY 2023

CONSTRUCTION NOTES:

PROJECT CONTROL INFORMATION:

PROJECT CONTROL IS A 5/8" IRON ROD
 NORTHING = 16564368.571
 EASTING = 1422621.282
 ELEVATION = 8.52

PROJECT CONTROL IS A MAGNAIL
 NORTHING = 16564360.289
 EASTING = 1422557.197
 ELEVATION = 7.73

ALL HORIZONTAL INFORMATION SHOWN IS IN N.A.D. 83 DATUM, TEXAS SOUTH ZONE 4205, AS OBSERVED BY GPS. ALL VERTICAL INFORMATION SHOWN IS IN N.A.D. 88 DATUM, U.S. SURVEY FEET.

EXISTING UTILITIES AND STRUCTURES:

EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE BASED ON CITY'S GIS MAP AS WELL AS AN ON THE GROUND SURVEY PERFORMED BY LJA ENGINEERING, INC. EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE FOR REFERENCE ONLY AND DO NOT NECESSARILY REPRESENT THE EXACT LOCATION OF SUCH FACILITIES, NOR IS IT IMPLIED THAT ALL EXISTING UTILITIES ARE SHOWN ON THE DRAWINGS. LJA ENGINEERING, INC. ASSUMES NO RESPONSIBILITY FOR THE EXISTENCE OR LOCATION OF ANY SUBSURFACE UTILITIES OR STRUCTURES. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE APPROPRIATE UTILITY OWNERS AND LOCATING ALL EXISTING UTILITIES PRIOR TO COMMENCING WITH ANY CONSTRUCTION OPERATIONS.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ALL UTILITIES AND PRIVATE OR PUBLIC PROPERTY ON OR NEAR THE PROJECT FROM DAMAGE DURING CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES AND PRIVATE OR PUBLIC PROPERTY SHALL BE REMEDIED AND PAID FOR IN WHOLE BY THE CONTRACTOR.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE OR OTHERWISE PROVIDE FOR THE ADJUSTMENT OR RELOCATION OF ANY UTILITIES AS REQUIRED TO COMPLETE THE PROPOSED CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES AS NECESSARY TO IMPLEMENT THE PROPOSED CONSTRUCTION. NO SEPARATE PAYMENT WILL BE MADE FOR ANY SUCH ADJUSTMENTS OF RELOCATIONS, FORESEEN OR UNFORESEEN.

CONTRACTOR TO REPLACE ALL SIGNS, CULVERTS, FENCES, AND OTHER APPURTENANCES REMOVED DURING CONSTRUCTION. NO SEPARATE PAY.

CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES 48 HOURS PRIOR TO THE START OF CONSTRUCTION:

- | | |
|--|-----------------|
| TEXAS 811 | |
| LJA ENGINEERING, INC. | -(361) 991-8550 |
| PARKS AND RECREATION | -(956) 761-8168 |
| PUBLIC WORKS | -(956) 761-8159 |
| SHORELINE MANAGEMENT | -(956) 761-8111 |
| CITY (HALL) OF SOUTH PADRE ISLAND | -(956) 761-6456 |
| LAGUNA MADRE WATER DIST. OFFICE | -(956) 943-2626 |
| LAGUNA MADRE WATER DIST. EMERGENCIES AFTER HOURS | -(956) 572-1716 |
| TXDOT BROWNSVILLE OFFICE | -(956) 542-2260 |
| TEXAS GAS SERVICE | -(800) 700-2443 |
| SPECTRUM/TIMEWARNER CABLE/AT&T/VERIZON/CHARTER COMMUNICATIONS/FONTIER COMMUNICATIONS | |
| AMERICAN ELECTRIC AND POWER (AEP) TEXAS/MAGIC VALLEY ELECTRICAL COOPERATIVE | |

EXPLORATORY EXCAVATION:

PRIOR TO ANY CONSTRUCTION WHATEVER ON THE PROJECT, CONTRACTOR SHALL EXCAVATE AND EXPOSE ALL EXISTING PIPELINES AND UTILITIES ON THE PROJECT THAT CROSS OR RUN WITHIN 6' PARALLEL TO, THE PROPOSED CULVERT CROSSINGS OF THE PROJECT AND CONTRACTOR SHALL SURVEY THE EXACT VERTICAL AND HORIZONTAL LOCATION OF EACH CROSSING AND POTENTIALLY CONFLICTING PIPELINE.

THE WORK SHALL BE PERFORMED PRIOR TO COMMENCEMENT OF CONSTRUCTION AND CONFLICTS WITH PROPOSED CONSTRUCTION SHALL BE REPORTED TO THE ENGINEER.

CONTRACTOR SHALL THEN PREPARE A SET OF MARKED PLANS AND SUBMIT IT TO THE ENGINEER FOR APPROVAL INDICATING THE OWNER OF PIPELINES AND UTILITIES EXCAVATED AND SURVEYED, AS WELL AS THE APPROXIMATE STATION THEREOF, DISTANCE TO THE PROPOSED IMPROVEMENTS AND ELEVATIONS OF THE TOP OF EXISTING PIPELINES AND PROPOSED PROFILE OF NEW IMPROVEMENTS IF DIFFERENT FROM THAT SHOWN ON THE PLANS. THE ENGINEER WILL REQUIRE 10 WORKING DAYS AFTER RECEIPT IN HIS OFFICE OF THE MARKED PLANS TO REVIEW, ANALYZE AND, IF NECESSARY, MAKE CHANGES IN ALIGNMENT AND/OR ELEVATION.

CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM ANY CONSTRUCTION WORK ON THE PROJECT UNTIL ALL EXPLORATORY EXCAVATIONS HAVE BEEN MADE IN THEIR ENTIRETY, THE RESULTS THEREOF REPORTED TO THE ENGINEER AND UNTIL CONTRACTOR RECEIVES ENGINEER'S APPROVAL OF REPORT.

STORM WATER POLLUTION PREVENTION:

CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT SILT AND DEBRIS FROM CONSTRUCTION OPERATIONS DOES NOT FLOW ONTO THE ADJACENT PRIVATE PROPERTY NOR ENTER INTO ADJACENT DRAINAGE AND IRRIGATION DITCHES AND CANALS AS SHOWN IN THE STORM WATER MEASURES AND DETAILS. THE PROJECT SITE IS LESS THAN A 1/4 ACRE THEREFORE A NOTICE OF INTENT (NOI) PERMIT IS NOT REQUIRE.
 THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE SAFETY OF HIS EMPLOYEES AND THE PUBLIC DURING ALL PHASES OF THE CONSTRUCTION. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL SAFETY REGULATIONS.

TRENCHING OPERATIONS SHALL COMPLY WITH WORKER SAFETY REQUIREMENTS FOR EXCAVATION AND TRENCHING OPERATIONS. WORKER SAFETY IN EXCAVATIONS AND TRENCHES SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS 29 CFR PART 1926 SUBPART P-EXCAVATIONS. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR, AND NOT THE CITY OF SOUTH PADRE ISLAND OR CONSULTING ENGINEER, TO DETERMINE AND MONITOR SPECIFIC APPLICABILITY OF THE SAFETY SYSTEM TO THE FIELD CONDITIONS. THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE TEXAS FACILITY COMMISSION AND CONSULTING ENGINEER FROM ANY AND ALL DAMAGES AND COSTS THAT MAY RESULT FROM FAILURE OF METHODS OR EQUIPMENT USED BY THE CONTRACTOR TO PROVIDE FOR WORKER SAFETY.

DURING CONSTRUCTION, CONTRACTOR SHALL MAINTAIN A SAFE DISTANCE AWAY FROM EXISTING LINES TO KEEP THE EXISTING LINES FROM COLLAPSING.

EARTHWORK:

AREAS THAT RECEIVE FILL MATERIAL SHALL BE COMPACTED TO A MINIMUM DENSITY OF 95% OF THE STANDARD PROCTOR DENSITY PER ASTM D-698 AND A MOISTURE CONTENT WITHIN +3% TO -1% OF OPTIMUM. FILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 8" ON UNDISTURBED SOIL FREE OF DEBRIS AND ORGANIC MATERIALS. TEST REPORTS FOR COMPACTED FILL SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

CONTRACTOR TO REMOVE ALL EXCESS SPOIL, STRIPPED MATERIAL AND DEBRIS WITHIN LIMITS OF PROPOSED CONSTRUCTION OR AS SHOWN ON PLANS. DISPOSAL SHALL BE CONTRACTOR'S RESPONSIBILITY.

ALL TESTING SHALL BE PROVIDED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

COORDINATION:

ALL PUBLIC UTILITIES WORK SHALL BE COORDINATED WITH THE CITY'S INSPECTOR AND ENGINEER AND SHALL BE PERFORMED IN ACCORDANCE WITH THEIR REQUIREMENTS.

STANDARD SPECIFICATIONS

CONSTRUCTION MATERIALS AND EXECUTION SHALL BE GOVERNED BY THE APPLICABLE CITY OF PADRE ISLAND STANDARD CONSTRUCTION SPECIFICATIONS. THE TERM 'ENGINEER' AS USED IN THE SPECIFICATIONS REFERS TO THE CITY OF PADRE ISLAND DIRECTOR OF ENGINEERING SERVICES.

UTILITIES CONDUITS:

CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH OWNER AND ARCHITECT FOR THE EXACT LOCATION OF CONDUITS ENTERING THE BUILDING. THE LOCATIONS SHOWN ON THE PLANS ARE FOR REFERENCE ONLY.

REPAIR OF DAMAGED FACILITIES:

CONTRACTOR SHALL REPAIR OR REPLACE, AT CONTRACTOR'S EXPENSE, ANY AND ALL EXISTING UTILITIES, DRAINAGE FACILITIES, ELECTRICAL DUCT BANKS OR CABLES, PAVEMENTS, SIDEWALKS, CURBS, PIPELINES, SIGNS, LIGHTS, FENCES, GATES, PROPERTY PINS OR OTHER ITEMS DAMAGED OR DISTURBED BY CONTRACTOR'S OPERATIONS.

ANY DAMAGE TO EXISTING PAVEMENT, DRAINAGE, UTILITIES, OR EXISTING STRUCTURES SHALL BE REPAIRED TO PRE-CONSTRUCTION CONDITION AT THE CONTRACTOR'S EXPENSE.

PERMITS:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS TO COMPLETE THE PROPOSED CONSTRUCTION.

A PERMIT IS REQUIRED FOR ANY PUBLIC UTILITY CONSTRUCTION DONE IN A PUBLIC RIGHT OF WAY OR PUBLIC EASEMENT (WASTE WATER CONNECTION). CONTACT BUILDING INSPECTIONS DIVISION OF THE PUBLIC WORKS DEPARTMENT.

MATERIALS AND WORKMANSHIP:

ALL CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH PROJECT STANDARD SPECIFICATIONS. ANY DEVIATION OF THESE PLANS AND SPECIFICATIONS FROM SUCH STANDARDS AND PRACTICES THAT WILL AFFECT THE PROJECT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AT LEAST 10 DAYS FOR REVIEW AND ACTION.

ENGINEER'S RESPONSIBILITY DURING CONSTRUCTION:

THE ENGINEER OR ENGINEER'S REPRESENTATIVE SHALL BE AT THE SITE SOLELY FOR THE PURPOSE OF PROVIDING GENERAL OBSERVATION OF THE CONTRACTOR'S COMPLIANCE WITH THE DESIGN, PROGRESS REVIEW AND DESIGN PROBLEM RESOLUTION. THE ENGINEER SHALL NOT SUPERVISE THE CONSTRUCTION OR BE RESPONSIBLE FOR SAFETY PRECAUTIONS OR COMPLIANCE.

TRAFFIC CONTROL:

IF TRAFFIC CHANNELIZATION AND BARRICADES ARE REQUIRED, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

CONTRACTOR SHALL PROVIDE PROTECTIVE DEVICES SUCH AS SIGNS, LIGHTS, AND SIGNALS FOR THE SAFETY OF THE PUBLIC AND WORKERS, AS REQUIRED.

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

TEMPORARY TRAFFIC CONTROL PLANS AND TRAFFIC CONTROL DEVICES SHALL CONFORM WITH THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD), LATEST EDITION (EDITION 2011, REVISION 2, OCTOBER 2014, AS OF THE DATE OF THESE PLANS).

THE CONTRACTOR SHALL SUBMIT THE TEMPORARY TRAFFIC CONTROL PLANS TO THE CITY'S TRAFFIC ENGINEERING DEPARTMENT (STREET OPERATIONS) FOR APPROVAL AT LEAST 14 WORKING DAYS PRIOR TO THE ANTICIPATED START DATE.

FOLLOWING CITY APPROVAL OF THE TEMPORARY TRAFFIC CONTROL PLANS, THE CONTRACTOR SHALL PROVIDE A 72 HOUR NOTICE TO THE CITY'S TRAFFIC ENGINEERING DEPARTMENT (STREET OPERATIONS), AS WELL AS AFFECTED BUSINESSES AND RESIDENCES, PRIOR TO IMPLEMENTING THE TEMPORARY TRAFFIC CONTROL PLAN AND COMMENCING CONSTRUCTION ACTIVITIES.

CONCRETE NOTES:

- CONCRETE DESIGN AND INSTALLATION SHALL CONFORM TO THE LATEST OF THE ACI MANUAL AND THE IBC CODE.
- CONTRACTOR SHALL SUBMIT TO LJA ENGINEERING, INC. FOR APPROVAL THE CONCRETE MIX DESIGN PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL GIVE THE OWNER'S REPRESENTATIVE A MINIMUM OF 48 HOURS NOTICE FOR PRE-POUR REINFORCING STEEL INSPECTION. NO CONCRETE SHALL BE PLACED WITHOUT A PRE-POUR INSPECTION UNLESS PRIOR WRITTEN APPROVAL IS OBTAINED.
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI MIX AT 28 DAYS UNLESS NOTED OTHERWISE. DO NOT INCLUDE ANY FLY ASH, ADMIXTURE, WATER, ETC. WITHOUT THE OWNER'S PRIOR APPROVAL.
- AN INDEPENDENT TESTING LABORATORY SHALL PERFORM THE FOLLOWING TESTS ON CAST-IN-PLACE CONCRETE:
 - A. ASTM C 143 'STANDARD TEST FOR SLUMP OF PORTLAND CEMENT CONCRETE'. ALL CONCRETE SHALL HAVE A MAXIMUM SLUMP OF 4" UNLESS THE CONTRACTOR USES A SUPERPLASTERCIZING ADMIXTURE.
 - B. ASTM C 39 STANDARD TEST FOR COMPRESSIVE STRENGTH OF CYLINDRICAL CONCRETE SPECIMENS'. A SEPARATE TEST SHALL BE CONDUCTED FOR EACH CLASS, FOR EVERY 50 CUBIC YARDS OR A FRACTION THEREOF, PLACED PER DAY. REQUIRED CYLINDER(S) QUANTITIES AND TEST AGE AS FOLLOWS:
 - (1) AT 7 DAYS
 - (1) AT 14 DAYS
 - (1) AT 28 DAYS
 - C. ONE ADDITIONAL RESERVE CYLINDER TO BE TESTED UNDER THE DIRECTION OF THE ENGINEER, IF REQUIRED. IF 28 DAYS STRENGTH IS ACHIEVED, THE ADDITIONAL CYLINDER(S) MAY BE DISCARDED.

CONCRETE FINISHES ON ALL EXPOSED EDGES OF CONCRETE FOUNDATIONS AND STRUCTURES SHALL HAVE A 3/4" CHAMFER, UNLESS NOTED OTHERWISE.

- ALL REINFORCEMENT SHALL BE GRADE EPOXY COATED 60 KSI CONFORMING TO ASTM A775(U.N.O.). REINFORCEMENT SHALL BE SUPPORTED, SECURED AND OR TIED WITH APPROVED DEVICES OR IN AN APPROVED MANNER.
- FIELD FLAME CUTTING, FLAME BENDING AND OR WELDING OF REINFORCEMENT IS NOT PERMITTED.
- ALL COLD BENDING, SPLICES, EMBEDMENTS AND LAPS OF REINFORCEMENT SHALL BE PER THE LATEST EDITION OF THE ACI-318 MANUAL.
- ALL CONCRETE INSTALLATION, CURING, FINISHING, REPAIRS, ETC SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI-318.
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS AND, SITE CONDITIONS PRIOR TO COMMENCING CONSTRUCTION.
- ALL REINFORCEMENT SPLICES SHALL BE STAGGERED AND OVERLAPPED IN ACCORDANCE WITH ACI STANDARDS.

PIPE FOR WASTEWATER LINES:

- WASTEWATER LINE AND FITTINGS TO BE ASTM D-3034 PVC, SDR 26, FOR DIAMETERS OF 4" THROUGH 15". PIPE AND FITTINGS SHALL HAVE A PUSH-ON COMPRESSION GASKET JOINTS IN ACCORDANCE WITH ASTM D-3212.
- ALL WASTEWATER LINE UNDER PROPOSED PAVEMENT, TO BE BACKFILLED ACCORDING TO THE WASTEWATER DETAIL SHEETS ON THESE PLANS. NO SEPARATE PAY. INCLUDE COST IN PRICE BID PER LINEAR FOOT OF WASTEWATER LINE IMPROVEMENTS. ANY SETTLEMENT OF PAVEMENT DURING CONTRACTOR'S WARRANTY PERIOD SHALL BE CAUSE FOR INVOKING WARRANTY CONDITIONS AND CONTRACTOR SHALL RECOMPACT AND RELAY BASE AND ASPHALT AND/OR CONCRETE SURFACES.
- PIPES AND FITTINGS FOR WASTEWATER SERVICE LINE SHALL BE PVC IN ACCORDANCE WITH ASTM D2865 AND D331 WITH A MINIMUM SIZE OF 4 INCHES OR AS DESIGNATED ON THE PLANS.
- PIPE AND FITTINGS FOR NEW WASTEWATER SERVICES LINE SHALL MEET THE REQUIREMENTS OF THE CITY OF PADRE ISLAND STANDARD DETAILS AND SPECIFICATIONS.

WATERLINES:

- PIPE AND FITTINGS FOR NEW SERVICE LINE SHALL MEET THE REQUIREMENTS OF THE CITY OF PADRE ISLAND STANDARD DETAILS AND SPECIFICATIONS.
- WHERE SANITARY SEWER AND WATERLINES CROSS, THE WATERLINE SHALL BE PLACED OVER THE SEWER WITH A MINIMUM SEPARATION OF 2 FEET. IF THIS IS NOT POSSIBLE, THE WASTEWATER LINE SHALL BE C900, FOR LINES 4"-12" IN DIAMETER, OR C905 FOR LINES OVER 12" IN DIAMETER, WITH A MINIMUM PRESSURE RATING OF 150 PSI, OR SHALL BE ENCASED WITH A STANDARD 20-FT. LENGTH OF PRESSURE PIPE. THE CASING PIPE SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE SUBSIDIARY TO THE CARRIER PIPE.
- PIPE BETWEEN FITTINGS AT VERTICAL AND HORIZONTAL CHANGES IN ALIGNMENT SHALL BE DUCTILE IRON PIPE WITH RESTRAINT DEVICES. (NO EXTRA PAY), UNLESS OTHERWISE SHOWN ON THE PLANS.
- ALL POWER POLES IN VICINITY OF CONSTRUCTION OF WATERLINES SHALL BE PROPERLY BRACED AND PROTECTED AGAINST MOVEMENT DURING WATERLINE CONSTRUCTION. NO SEPARATE PAY.
- WHERE EXISTING WATER SERVICE LINE CONNECTS TO EXISTING WATER MAIN TO BE REMOVED OR REPLACED, PROVIDE NEW WATER SERVICE LINE OF SAME SIZE FROM NEW PVC WATER MAIN TO EXISTING WATER METER.
- ALL LINES TO BE INSTALLED SO AS TO NOT EXCEED THE MANUFACTURER'S MAXIMUM RECOMMENDED DEFLECTION PER JOINT. THE CONTRACTOR IS RESPONSIBLE FOR CALCULATION OF THE MINIMUM DEFLECTION DISTANCES REQUIRED FOR UTILITY CLEARANCES.
- CONTRACTOR TO INSURE A "DRY DITCH" CONDITION PRIOR TO THE PLACEMENT OF WATERLINES.
- CONTRACTOR TO MAINTAIN ADEQUATE PIPE, MISCELLANEOUS FITTINGS, SUPPLIES, AND PUMPS ON THE PROJECT TO INSURE WATER LINE BREAKS WILL BE REPAIRED RAPIDLY. CONTRACTOR SHALL OPERATE NO VALVES WITHOUT CONSENT OF THE CITY OF PADRE ISLAND WATER DEPARTMENT.

BUILDING PAD PREPARATION:

- REMOVAL OF THE EXISTING SOILS, EXTENDING TO AT LEAST 5-FT. BEYOND THE OUTSIDE PERIMETER OF ALL FOUNDATIONS, AND TO THE SPECIFIED DEPTH IS 4 FEET.
- AFTER ACHIEVING SPECIFIED SUBGRADE ELEVATION, PROOF-ROLL EXPOSED SUBGRADE AND COMPACT.
- AFTER TESTING AND ACCEPTANCE OF SUBGRADE, IMMEDIATELY PLACE AND COMPACT NON-EXPANSIVE STRUCTURAL SELECT FILL MATERIAL TO AT LEAST 5-FT BEYOND THE OUTSIDE PERIMETER OF THE FOUNDATION.
- MAINTAIN MOISTURE IN SELECT FILL PAD UNTIL THE CONCRETE FOUNDATION IS CONSTRUCTED.
- SELECT FILL BE USED FOR ELEVATION OF THE BUILDING PAD ABOVE EXISTING GRADE AT LEAST 6 INCHES TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE BUILDING.
- SPECIAL CARE SHALL BE TAKEN NOT TO ALLOW THE EXPOSED SUBGRADE SOILS TO BECOME UNUSUALLY WET OR DRY OF THE EXISTING MOISTURE CONTENT. DELAYS BETWEEN EXCAVATION AND FILL PLACEMENT SHOULD BE AVOIDED. IF CONSTRUCTION OCCURS DURING WET WEATHER AND THE EXPOSED SUBGRADE SOILS ARE ALLOWED TO BECOME WET OR SATURATED, REMOVAL AND REPLACEMENT OF EXCESSIVELY SOFT, WET SOILS OR LIME-STABILIZATION SHOULD BE ANTICIPATED. THE DEPTH OF UNDERCUTTING SHOULD BE DETERMINED IN THE FIELD BY TWE.

SUBGRADE PREPARATION AND STRUCTURAL SELECT FILL:

- AREAS DESIGNATED FOR NEW CONSTRUCTION SHOULD BE STRIPPED OF ALL SURFACE VEGETATION, LOOSE TOPSOIL AND MAJOR ROOT SYSTEMS. TREE STUMPS SHALL BE COMPLETELY REMOVED AND BACKFILLED, IF APPLICABLE. AFTER PLANNED SUBGRADE ELEVATION HAS BEEN REACHED, THE EXPOSED SUBGRADE SHOULD THEN BE PROOF ROLLED WITH AT LEAST A 20-TON PNEUMATIC ROLLER, LOADED DUMP TRUCK, OR EQUIVALENT, TO DETECT WEAK AREAS. SUCH WEAK AREAS SHOULD BE REMOVED AND REPLACED WITH SOILS EXHIBITING SIMILAR CLASSIFICATION, MOISTURE CONTENT, AND DENSITY AS THE ADJACENT IN-PLACE SOILS. SUBSEQUENT TO PROOF ROLLING, AND JUST PRIOR TO PLACEMENT OF SELECT FILL, THE UPPER 6-IN OF THE EXPOSED SUBGRADE IN FOUNDATION AREAS SHOULD BE COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AT OR ABOVE (0 TO 4 PERCENT) OPTIMUM MOISTURE IN ACCORDANCE WITH STANDARD PROCTOR (ASTM D 698) PROCEDURES.
- PROPER SITE DRAINAGE SHOULD BE MAINTAINED DURING CONSTRUCTION SO THAT PONDING OF SURFACE RUNOFF DOES NOT OCCUR AND CAUSE CONSTRUCTION DELAYS AND/OR INHIBIT SITE ACCESS.
- NON-EXPANSIVE, SELECT FILL FOR THIS PROJECT SHOULD CONSIST OF A CLEAN, LOW-PLASTICITY SANDY CLAY (CL) OR CLAYEY SAND (SC) MATERIAL WITH A LIQUID LIMIT OF LESS THAN 40 AND A PLASTICITY INDEX BETWEEN 7 AND 20. THE SELECT FILL SHOULD BE PLACED IN THIN LIFTS, NOT EXCEEDING THE MAXIMUM LIFT THICKNESS INDICATED ABOVE IN TABLE 7-1. LOOSE MEASURE, MOISTURE CONDITIONED TO BETWEEN 42% OF OPTIMUM MOISTURE CONTENT, AND COMPACTED TO A MINIMUM 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698 (STANDARD PROCTOR).
- PRIOR TO ANY FILLING OPERATIONS, SAMPLES OF THE PROPOSED BORROW MATERIALS SHOULD BE OBTAINED FOR SOIL CLASSIFICATION AND LABORATORY MOISTURE-DENSITY TESTING. THE TESTS WILL PROVIDE A BASIS FOR EVALUATION OF FILL COMPACTION BY IN-PLACE DENSITY TESTING. A QUALIFIED SOIL TECHNICIAN SHOULD PERFORM SUFFICIENT IN-PLACE DENSITY TESTS DURING THE EARTHWORK OPERATIONS TO VERIFY THAT PROPER LEVELS OF COMPACTION ARE BEING ATTAINED.

BUILDING CODE:

- THE CONTRACTOR SHALL COMPLY WITH CITY'S ADOPTED 2018 INTERNATIONAL BUILDING CODE.

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PROJECT No.:
C275-21181

SEA ISLAND CIRCLE
 BEACH ACCESS AMENITY IMPROVEMENTS
 2300 GULF BOULEVARD
 SOUTH PADRE ISLAND, TEXAS 78597

GENERAL NOTES


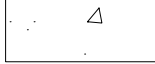

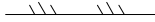
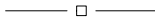









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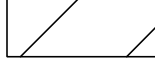


REVISION NO.	DATE	BY	DESCRIPTION

LEGEND

EXISTING

	PAVERS
	CONCRETE
	GRASS AREA
— WL —	WATER LINE
— WW —	WASTEWATER LINE
— OHE —	OVERHEAD ELECTRICAL
	EDGE OF ASPHALT PAVEMENT
	METAL FENCE
	WOOD FENCE
	ROPE FENCE
	ELECTRICAL POLE
	WATER VALVE
	SPOT ELEVATION
	BOLLARD
	CHECK POINT
	PALM TREE
	SIGNS TO BE RELOCATED

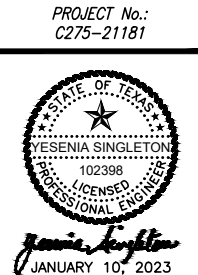
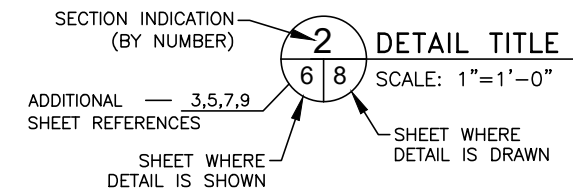
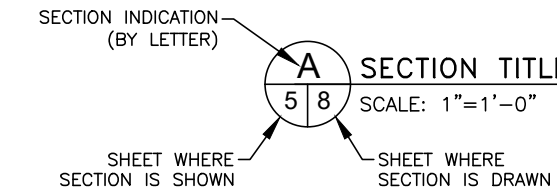
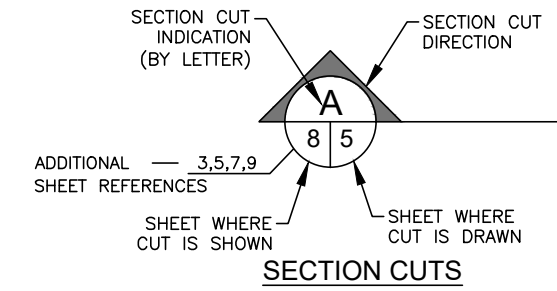
PROPOSED

	CONCRETE FOUNDATION
	5' PAVER WALKWAY WITH 6" HEADER CURB
	RIVER ROCK
	FOOT WASH STATION
	BUILDING WALLS
	PAVEMENT REPAIR
— WL —	WATER LINE
— WW —	WASTEWATER LINE
— OHE —	OVERHEAD ELECTRICAL
-----	ROOF OVERHANG
	CLEANOUT
	ELECTRICAL POLE

ABBREVIATIONS

AFF - AT FINISH FLOOR	NG - NATURAL GROUND
ASPHT - ASPHALT PAVEMENT	O.C. - ON CENTER
C&G - CURB AND GUTTER	OCEW - ON CENTER EACH WAY
CONC - CONCRETE	PVMT - PAVEMENT
ELEV - ELEVATION	R - RADIUS
EXIST - EXISTING	S - SLOPE
FF - FINISH FLOOR	RT - RIGHT
G - GUTTER	S/W - SIDEWALK
LP - LIGHT POLE	EL 00.00 - PROPOSED ELEVATION
LT - LEFT	TYP - TYPICAL
MIN. - MINIMUM	WTR - WATER
MAX. - MAXIMUM	WW - WASTEWATER

TYPICAL SECTION AND DETAIL SYMBOLS



NOTES:

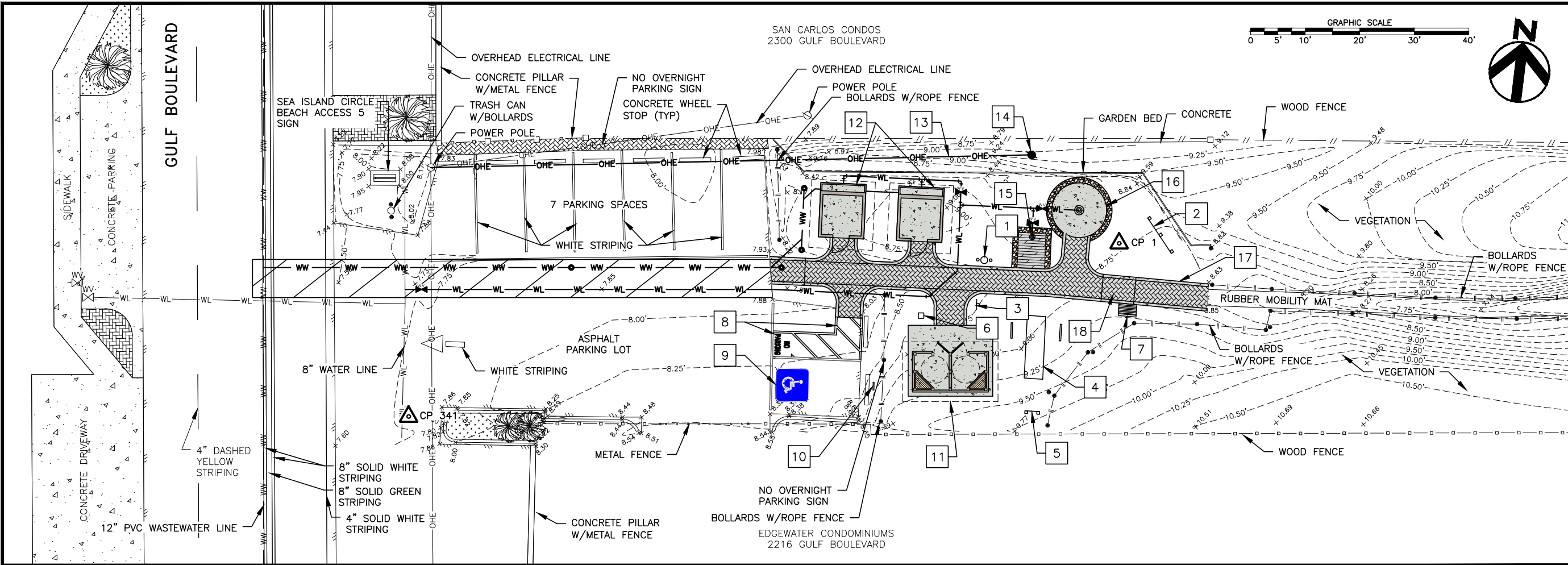
1. TESTING REQUIREMENT: TESTING FOR CRITICAL TEMPERATURES WILL BE PROVIDED BY THE CITY INSPECTOR. CONTRACTOR WILL MONITOR AND INCLUDE IN DAILY REPORTS. REPORTS SHOULD INCLUDE TEMPERATURE FOR INSTALLATION/CONSTRUCTION AND COMPACTION FOR HMAC PER TXDOT ITEM 340, TABLE 9. CITY INSPECTOR AND/OR ENGINEER WILL VERIFY CONTRACTOR MONITORING PROCEDURES.
2. THE TESTING SCHEDULE ON THE RIGHT APPLIES TO ENTIRE PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CALCULATE THE FREQUENCY OF TESTING REQUIRED FOR EACH STREET BASED ON THE ABOVE AND BE APPROVED BY THE ENGINEER AT THE PRE-CONSTRUCTION MEETING.
3. THE CONTRACTOR SHALL NOTIFY THE CITY INSPECTOR AND ENGINEER'S REPRESENTATIVE PRIOR TO PERFORMING ANY MATERIAL TESTING. THE CITY'S INSPECTOR OR ENGINEER'S REPRESENTATIVE NEED TO BE PRESENT FOR ALL TESTING
4. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING AND COORDINATING ALL THE MATERIALS TESTING WITH THE SELECTED LABORATORY.
5. IF TXDOT SPECIFICATIONS ARE REFERENCED FOR MATERIAL, CONTRACTOR SHALL PERFORM TESTING REQUIRED BY THAT SPECIFICATION AS PART OF SUBMITTALS.

TESTING SCHEDULE *	
DESCRIPTION	RATE
SOILS:	
STANDARD PROCTOR - SUBGRADE	PER MATERIAL SOURCE
DENSITIES - SUBGRADE (WALKWAY)	PER 5,000 SF
FLEXIBLE BASE:	
SIEVE ANALYSIS	PER 3,000 CY
ATTERBURG LIMITS	PER 3,000 CY
MODIFIED PROCTOR	PER 3,000 CY
L.A. ABRASION	PER 3,000 CY
CBR (STANDARD)	PER MATERIAL SOURCE
WET BALL MILL TEST	PER MATERIAL SOURCE
TRIAxIAL TEST	PER MATERIAL SOURCE
DENSITIES OF COMPACTED BASE (CONCRETE TRAIL)	PER 5,000 SF
HOT-MIX ASPHALT (HMA):	
EXTRACTION, SIEVE ANALYSIS	PER 500 TONS OR DAY
LAB DENSITY & STABILITY	PER 500 TONS OR DAY
THEORETICAL DENSITY (RICE METHOD)	PER 500 TONS OR DAY
TEMPERATURE - DURING LAY-DOWN	CONTINUOUS AS NEEDED
THICKNESS - IN PLACE (CORE)	PER 1,000 LF STREET
% AIR VOIDS - IN PLACE (CORE)	PER 1,000 LF STREET
% THEORETICAL DENSITY - IN PLACE (CORE)	PER 1,000 LF STREET
CONCRETE:	
(UNCONFINED COMPRESSION, 7, 14, & 28 DAY)	
SIDEWALK/TRAIL AND CURB RAMPS	PER 4,000 SF
NOTE: THE ENGINEER MAY REQUIRE ADDITIONAL TESTING AS HE/SHE DEEMS NECESSARY.	

DESCRIPTION	SEA ISLAND CIRCLE BEACH ACCESS AMENITY IMPROVEMENTS 2300 GULF BOULEVARD SOUTH PADRE ISLAND, TEXAS 78597
BY	MF
DATE	APPROVED BY: YS
REVISION NO.	JOB NO. C275-21181
	G2

R:\CLIENTS\city of south padre - 275\21181 - sea island circle amenities\CAD\LEGEND, ABBREVIATIONS, QUANTITY & TESTING SCHEDULE.dwg mquerra Mon, Jan 09 2023 10:06:01 am

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PROJECT No.:
C275-21181

Yesenia Singleton
102398
LICENSED PROFESSIONAL ENGINEER
JANUARY 10, 2023

LJA ENGINEERING
TBP# FIRM REG. NO. F-1386

South Padre ISLAND

REVISION NO.	DATE	DESCRIPTION

GENERAL NOTES:

- PROPOSED ELEVATIONS SHOWN ARE ESTABLISHED FROM EXISTING CONDITIONS AND ARE SHOWN TO ASSIST CONTRACTOR, HOWEVER, EXISTING CONDITIONS SHALL CONTROL. CONTRACTOR SHALL ESTABLISH FINAL ELEVATIONS IN FIELD TO PREVENT PONDING AND PROVIDE POSITIVE DRAINAGE, I.E. GRADES MAY BE ADJUSTED IF NECESSARY, WHILE MAINTAINING CONFORMANCE WITH ADA SLOPE REQUIREMENTS, AND AFTER CONTACTING ENGINEER.
- PROVIDE SLOPES ADJACENT TO PROPOSED PAVERS/CONCRETE TO 1% MIN.
- DRAIN TO DAYLIGHT ALLOWING POSITIVE DRAINAGE.
- EXCESS MATERIAL FROM EXCAVATION SHALL BE USED TO GRADE AREAS ADJACENT TO PROPOSED PAVERS/CONCRETE.
- ADA RAMP AND CURB HIGH-POINT ELEVATIONS SHOWN ARE ESTABLISHED FROM EXISTING CONDITIONS AND ARE SHOWN TO ASSIST CONTRACTOR, HOWEVER, EXISTING CONDITIONS SHALL PREVAIL. CONTRACTOR SHALL ESTABLISH FINAL ELEVATIONS IN FIELD TO PREVENT PONDING AND PROVIDE POSITIVE DRAINAGE, GRADES MAY BE ADJUSTED IF NECESSARY AFTER CONTACTING THE ENGINEER FOR APPROVAL (DO NOT EXCEED ADA SLOPE REQUIREMENTS AT RAMPS).

CONSTRUCTION NOTES:

- | | |
|--|---|
| <ol style="list-style-type: none"> EXISTING TRASH CAN W/BOLLARDS TO BE RELOCATED BY THE CITY WORK FORCE. EXISTING CODE OF ORDINANCES SIGN TO BE RELOCATED BY THE CITY WORK FORCE. EXISTING SURF CONDITION SIGN TO BE RELOCATED BY THE CITY WORK FORCE. EXISTING FITNESS STATION TO BE REMOVED AND RELOCATED BY THE CITY WORK FORCE. EXISTING FITNESS STATION SIGN TO BE REMOVED AND RELOCATED BY THE CITY WORK FORCE. EXISTING BIKE RACK TO BE REMOVED AND RELOCATED BY THE CITY WORK FORCE. EXISTING WOOD BENCH TO BE RELOCATED BY THE CITY WORK FORCE. PROPOSED 50 LF OF 4" STRIPING AND "NO PARKING" LETTERING (SEE DETAIL ON SHEET C14). PROPOSED PAVEMENT HANDICAP ACCESSIBLE SYMBOL (SEE DETAIL ON SHEET C14). PROPOSED HANDICAP PARKING STALL SIGN (SEE DETAIL ON SHEET C14). | <ol style="list-style-type: none"> PROPOSED CHANGING ROOM (DOUBLE UNIT) (SEE DETAILS ON SHEETS C7-C10). PROPOSED RESTROOMS (SEE SPECIFICATIONS). PROPOSED ELECTRICAL LINE (SEE SHEETS E0-E2). PROPOSED POWER POLE (SEE SHEETS E0-E2). PROPOSED ADA FOOT BATH STATION (SEE DETAIL ON SHEET C5). PROPOSED RINSE STATION (SEE DETAIL ON SHEET C6). PROPOSED 185 LF OF RIBBON CURB (SEE DETAIL ON SHEET C14). PROPOSED 477 SF OF 5' WIDE PAVER WALKWAY (SEE DETAIL ON SHEET C14). |
|--|---|

SEA ISLAND CIRCLE
BEACH ACCESS AMENITY IMPROVEMENTS
2300 GULF BOULEVARD
SOUTH PADRE ISLAND, TEXAS 78597

PROPOSED SITE PLAN

SCALE: AS NOTED

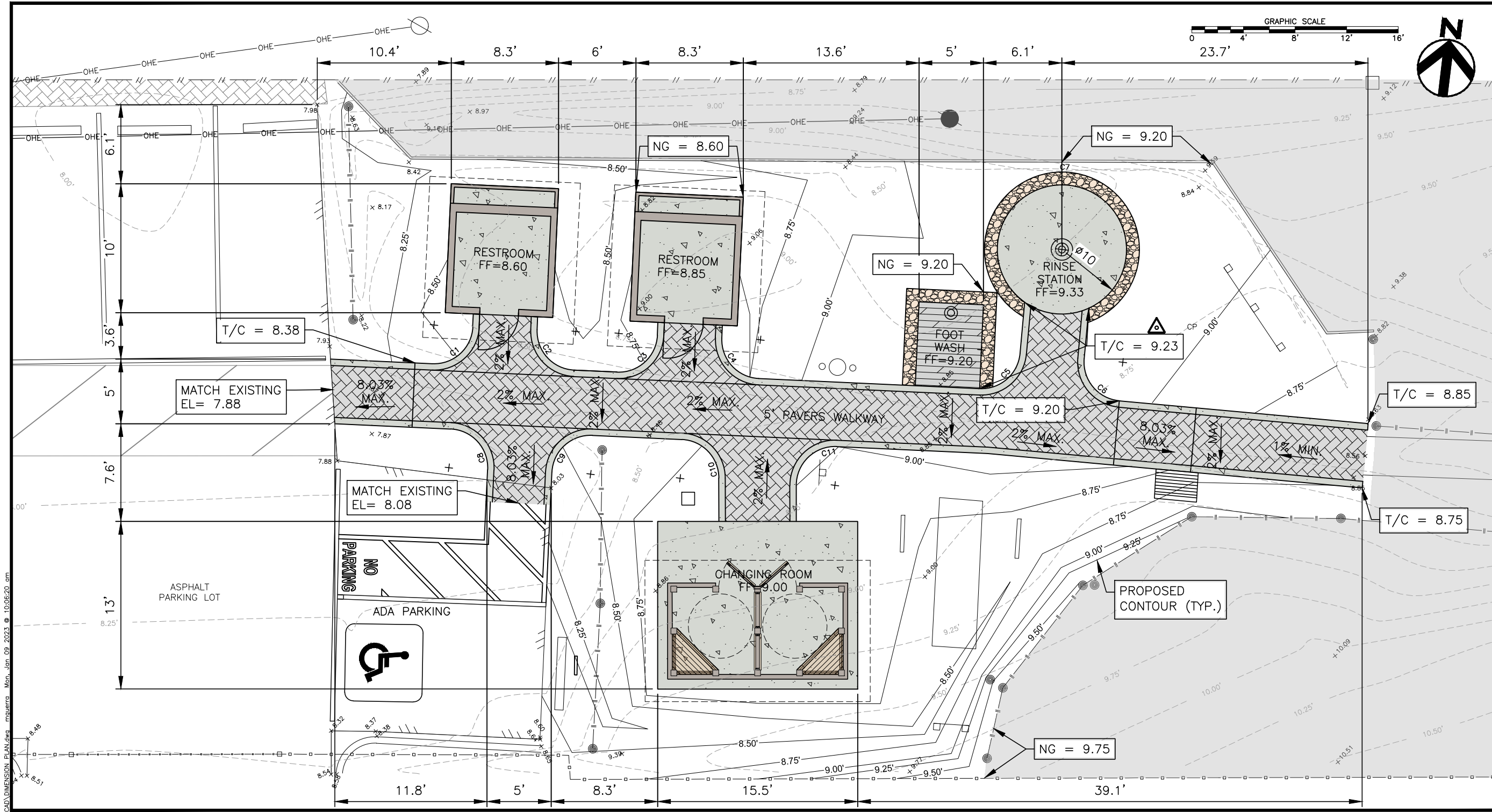
DRAWN BY: MF

APPROVED BY: YS

DATE:

JOB NO. C275-21181

C2



PROJECT No.:
C275-21181

STATE OF TEXAS
YESENIA SINGLETON
102398
LICENSED PROFESSIONAL ENGINEER
JANUARY 10, 2023

LJA ENGINEERING
TBPE FIRM REG. NO. F-1386

South Padre Island

SEA ISLAND CIRCLE
BEACH ACCESS AMENITY IMPROVEMENTS
2300 GULF BOULEVARD
SOUTH PADRE ISLAND, TEXAS 78597

**GRADING, DRAINAGE, AND
DIMENSION PLAN**

DESCRIPTION: SEA ISLAND CIRCLE BEACH ACCESS AMENITY IMPROVEMENTS

BY: MF

DATE: YS

REVISION NO. C3

GENERAL NOTES:

- AREAS SHADED IN LIGHT GRAY COLOR ARE TO REMAIN UNDISTURBED AS THEY ARE OUTSIDE OF THE PROJECT LIMITS.
- PROPOSED ELEVATIONS SHOWN ARE ESTABLISHED FROM EXISTING CONDITIONS AND ARE SHOWN TO ASSIST CONTRACTOR, HOWEVER, EXISTING CONDITIONS SHALL CONTROL. CONTRACTOR SHALL ESTABLISH FINAL ELEVATIONS IN FIELD TO PREVENT PONDING AND PROVIDE POSITIVE DRAINAGE, I.E. GRADES MAY BE ADJUSTED IF NECESSARY, WHILE MAINTAINING CONFORMANCE WITH ADA SLOPE REQUIREMENTS, AND AFTER CONTACTING ENGINEER.
- PROVIDE SLOPES ADJACENT TO PROPOSED PAVERS/CONCRETE TO 1% MIN. SLOPES ADJACENT TO PROPOSED BUILDINGS SHALL BE 5% MIN. FOR PERVIOUS AREAS, AND 2% MIN. FOR IMPERVIOUS AREAS.
- DRAIN TO DAYLIGHT ALLOWING POSITIVE DRAINAGE.
- EXCESS MATERIAL FROM EXCAVATION SHALL BE USED TO GRADE AREAS ADJACENT TO PROPOSED PAVERS/CONCRETE.

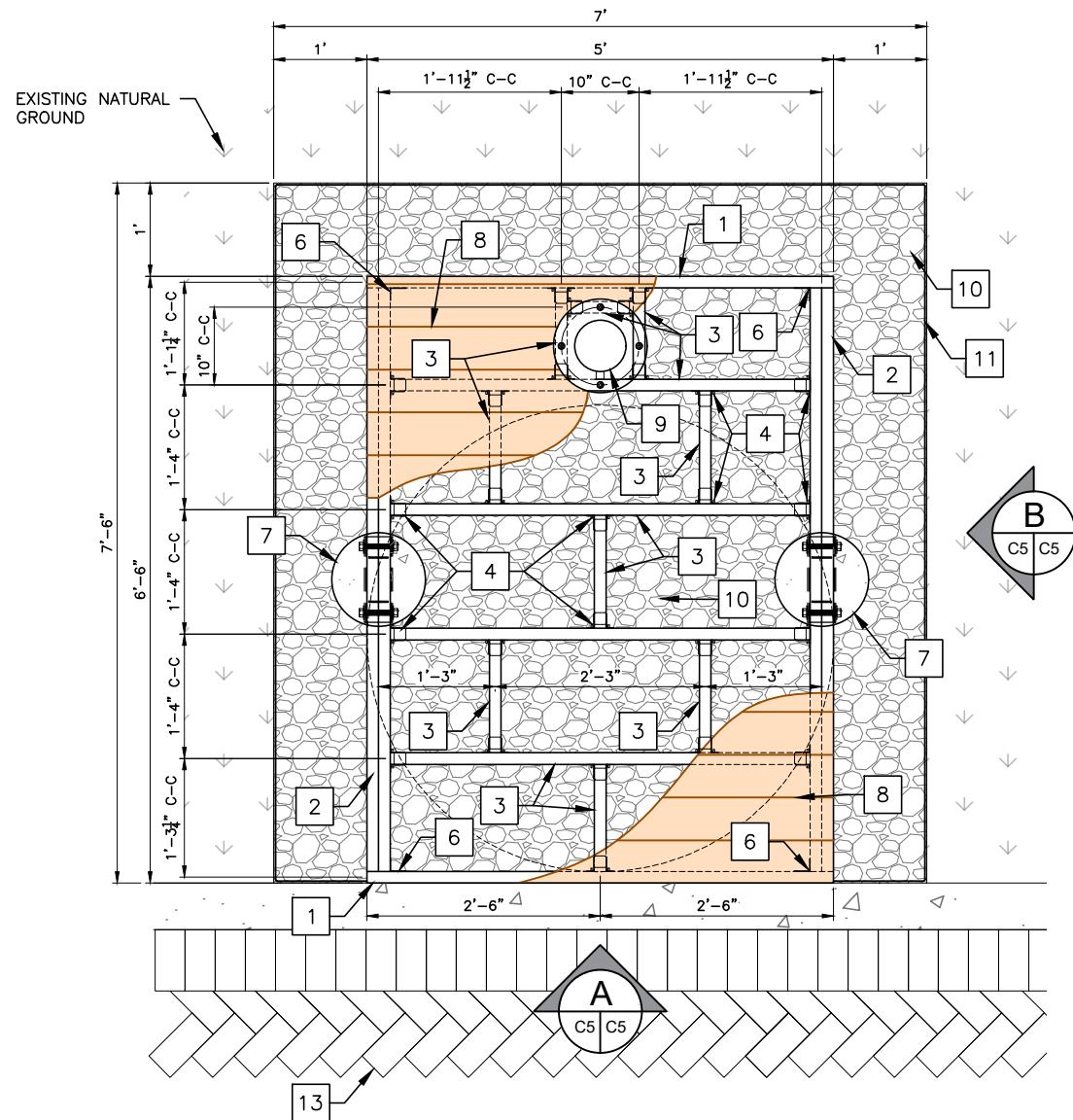
GENERAL NOTES (CONTINUED):

- ADA RAMP AND CURB HIGH-POINT ELEVATIONS SHOWN ARE ESTABLISHED FROM EXISTING CONDITIONS AND ARE SHOWN TO ASSIST CONTRACTOR, HOWEVER, EXISTING CONDITIONS SHALL PREVAIL. CONTRACTOR SHALL ESTABLISH FINAL ELEVATIONS IN FIELD TO PREVENT PONDING AND PROVIDE POSITIVE DRAINAGE, GRADES MAY BE ADJUSTED IF NECESSARY AFTER CONTACTING THE ENGINEER FOR APPROVAL (DO NOT EXCEED ADA SLOPE REQUIREMENTS AT RAMPS).
- NG = PROPOSED NATURAL GROUND ELEVATION
T/C = PROPOSED TOP OF CONCRETE ELEVATION
FF = FINISHED FLOOR ELEVATION

Curve Table					
CURVE #	LENGTH	RADIUS	DELTA	TANGENT	CENTER POINT
C1	4.71	3.00	090°00'	3.00	(16,564,401.0453, 1,422,626.9602)
C2	4.71	3.00	090°00'	3.00	(16,564,401.8877, 1,422,637.9279)
C3	4.71	3.00	090°00'	3.00	(16,564,402.1428, 1,422,641.2481)
C4	4.71	3.00	090°00'	3.00	(16,564,402.9852, 1,422,652.2158)
C5	4.57	3.00	087°22'	2.87	(16,564,404.2985, 1,422,669.3141)
C6	4.71	3.00	090°00'	3.00	(16,564,404.6839, 1,422,680.3074)
C7	32.54	6.00	310°45'	2.75	(1,656,4412.7836, 1,422,674.5553)
C8	4.74	3.00	090°28'	3.02	(16,564,390.2043, 1,422,629.4511)
C9	4.69	3.00	089°32'	2.98	(16,564,391.0467, 1,422,640.4192)
C10	4.57	3.00	087°14'	2.86	(16,564,391.5785, 1,422,647.3429)
C11	4.86	3.00	092°46'	3.15	(16,564,392.4985, 1,422,659.3211)

R:\CLIENTS\city of south padre - 275\21181 - sea island circle amenities\CAD\DIMENSION PLAN.dwg mquerra Mon, Jan 09 2023 @ 10:06:20 am

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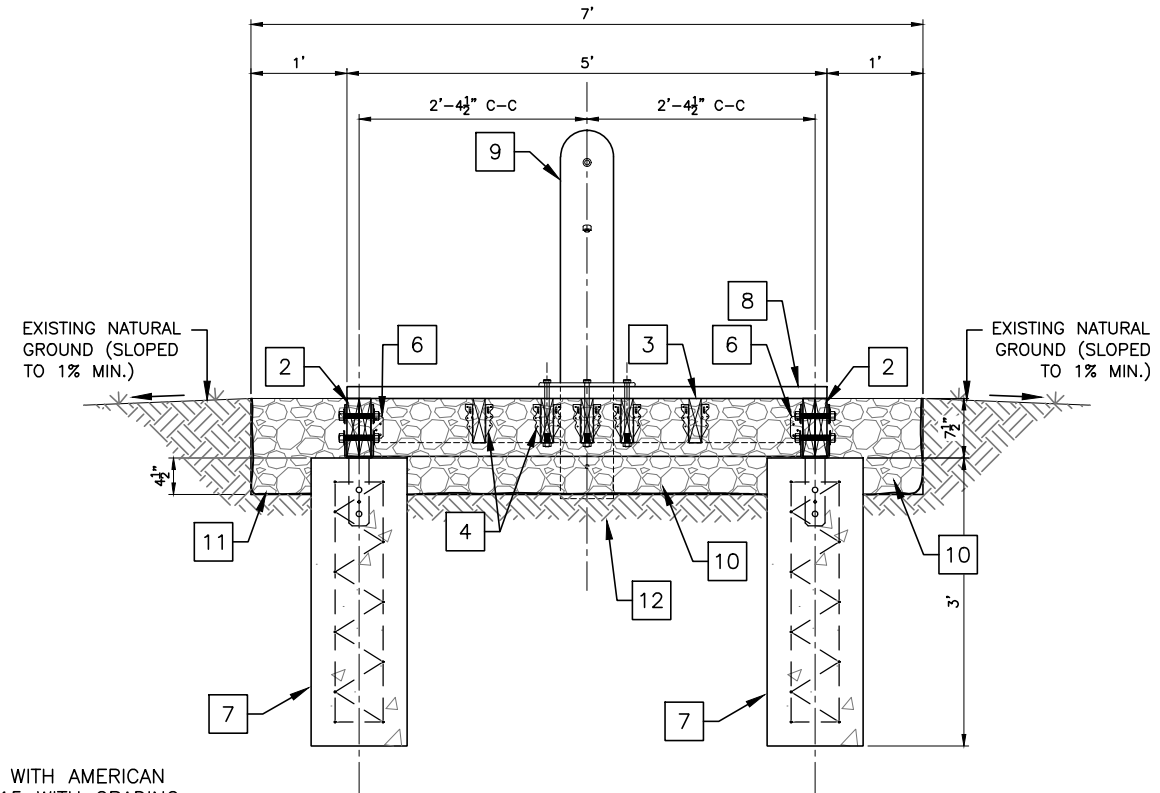
A
C5 C5
FOOT WASH STATION PLAN VIEW
SCALE: 1" = 1'-0"

CONSTRUCTION NOTES:

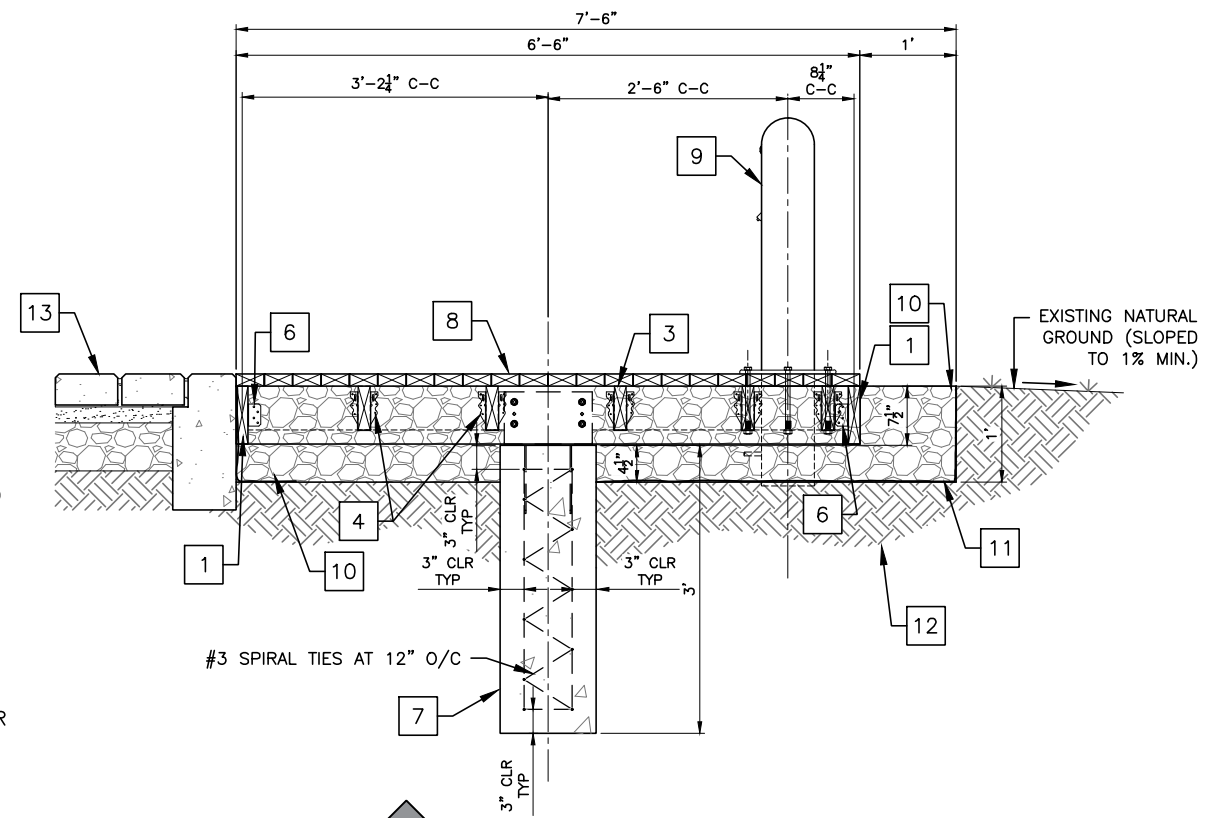
- 1 PROPOSED 2X8 SYP #2 RIM JOIST (TOTAL: 10 LF).
- 2 PROPOSED (2)-2X8 SYP #2 BEAM (TOTAL: 25 LF).
- 3 PROPOSED 2X6 SYP #2 JOIST (TOTAL: 30 LF).
- 4 PROPOSED LU26 SIMPSON 2X6 FACE MOUNT JOIST HANGER, G90 GALVANIZED. INSTALL PER MRF RECOMMENDATIONS (TOTAL: 26.)
- 5 PROPOSED CC3-1/4-6, HDG. INSTALL PER MRF RECOMMENDATIONS (TOTAL: 2).
- 6 PROPOSED SIMPSON A23 2" X 1-1/2" ANGLE-G90 GALVANIZED. INSTALL PER MRF RECOMMENDATIONS (TOTAL: 2).
- 7 PROPOSED 12"Ø CONCRETE PIER @ 3' DEPTH WITH 6-#4 VERTICAL REINFORCING (TOTAL: 2).
- 8 PROPOSED 2X4 SYP #2 DECKING (TOTAL: 70 LF).
- 9 PROPOSED FOOT SHOWER WITH SURFACE MOUNT. INSTALL PER MRF RECOMMENDATIONS (STERN WILLIAMS OUTDOOR FOOT SHOWER 6000 SERIES OR APPROVED EQUAL).
- 10 PROPOSED RIVER ROCK (53 CUBIC FT.).
- 11 PROPOSED LANDSCAPING WOVEN GEOTEXTILE FABRIC (82 SF.).
- 12 PROPOSED 6" OF COMPACTED SUBGRADE TO 95% (ASTD D698).
- 13 PROPOSED PAVERS SEE SHEET C14 FOR DETAILS.

NOTES:

ALL LUMBER SHALL COMPLY WITH AMERICAN SOFTWOOD LUMBER PS 20-15 WITH GRADING REQUIREMENTS OF SPIB. EACH PIECE SHALL BE GRADED MARKED. GRADING SHALL BE DONE AFTER TREATMENT. ALL LUMBER SHALL BE SOUTHERN YELLOW PINE #2KD OR BETTER, S4S OF THE SIZES SHOWN ON THE DRAWINGS, ALL LUMBER SHALL BE CCA TREATED IN COMPLIANCE WITH AWPA STANDARD C2 OF THE LATEST PUBLICATION.



A
C5 C5
FRONT VIEW
SCALE: 1" = 1'-0"



B
C5 C5
SIDE VIEW
SCALE: 1" = 1'-0"

PROJECT No.:
C275-21181

Yesenia Singleton
102398
LICENSED PROFESSIONAL ENGINEER
JANUARY 10, 2023

LJA ENGINEERING
TBPE FIRM REG. NO. F-1386

South Padre Island

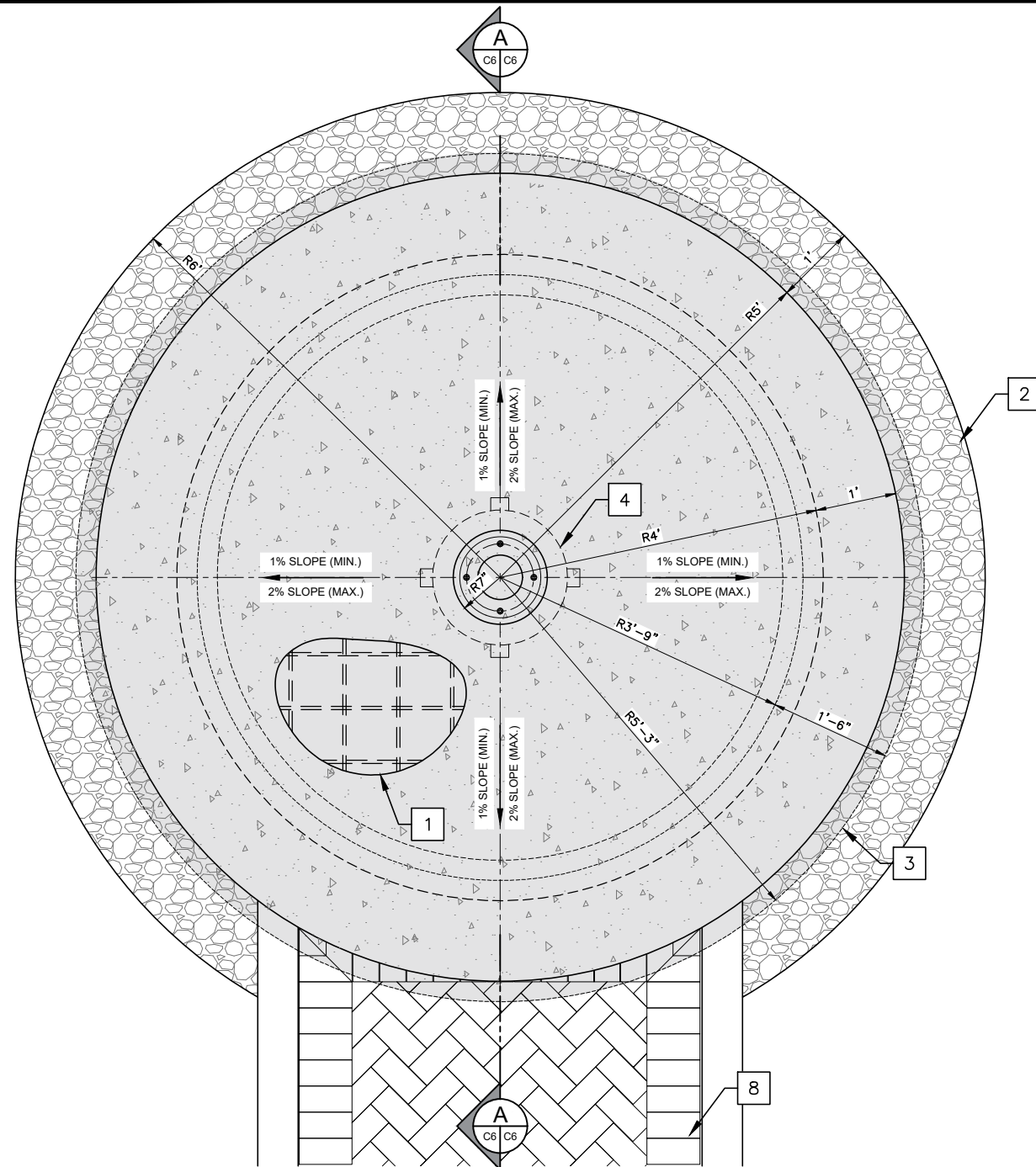
SEA ISLAND CIRCLE
BEACH ACCESS AMENITY IMPROVEMENTS
2300 GULF BOULEVARD
SOUTH PADRE ISLAND, TEXAS 78597

FOOT WASH STATION DETAILS

SCALE: AS NOTED
DRAWN BY: MF
APPROVED BY: YS
DATE:
JOB NO. C275-21181

C5

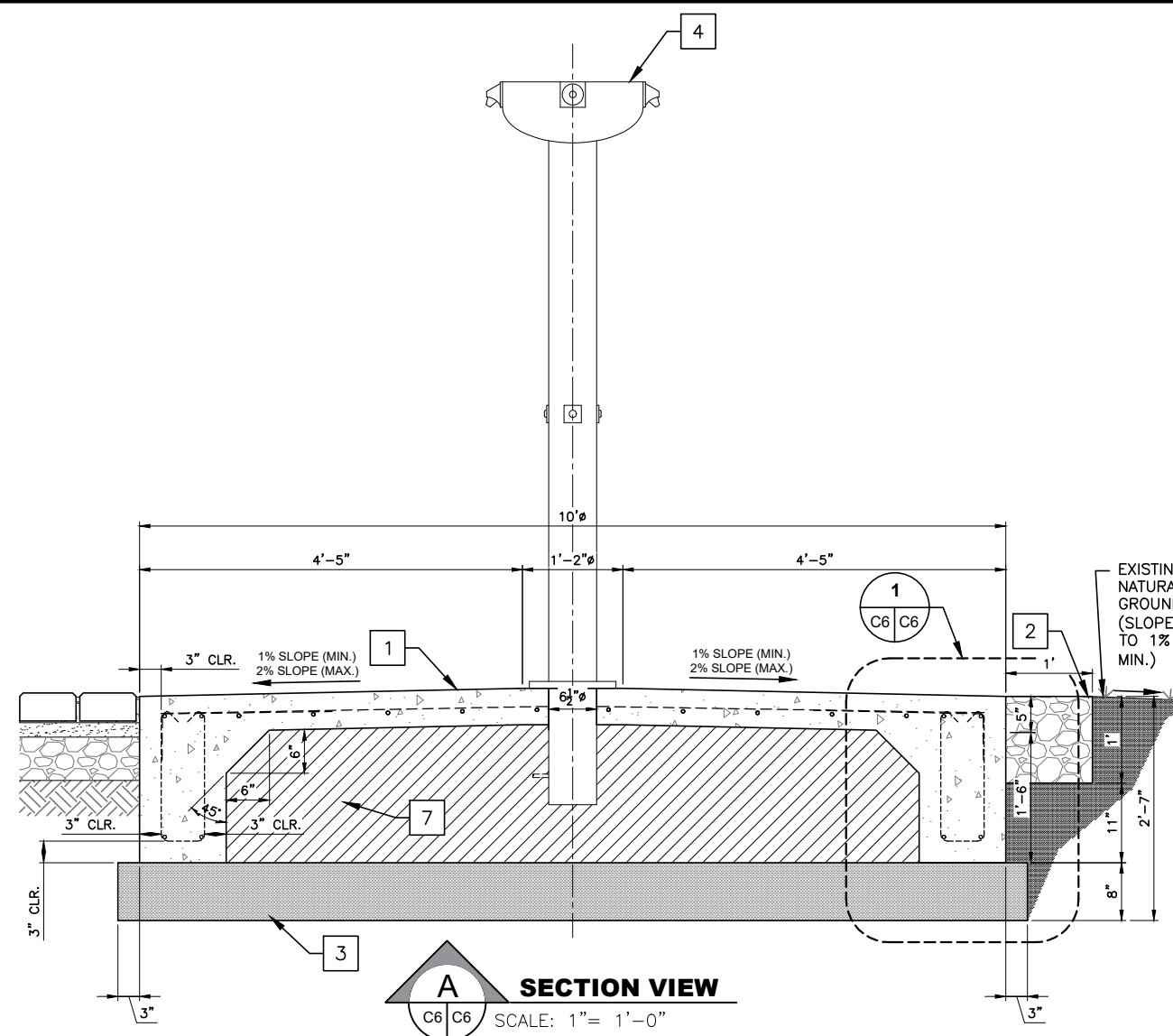
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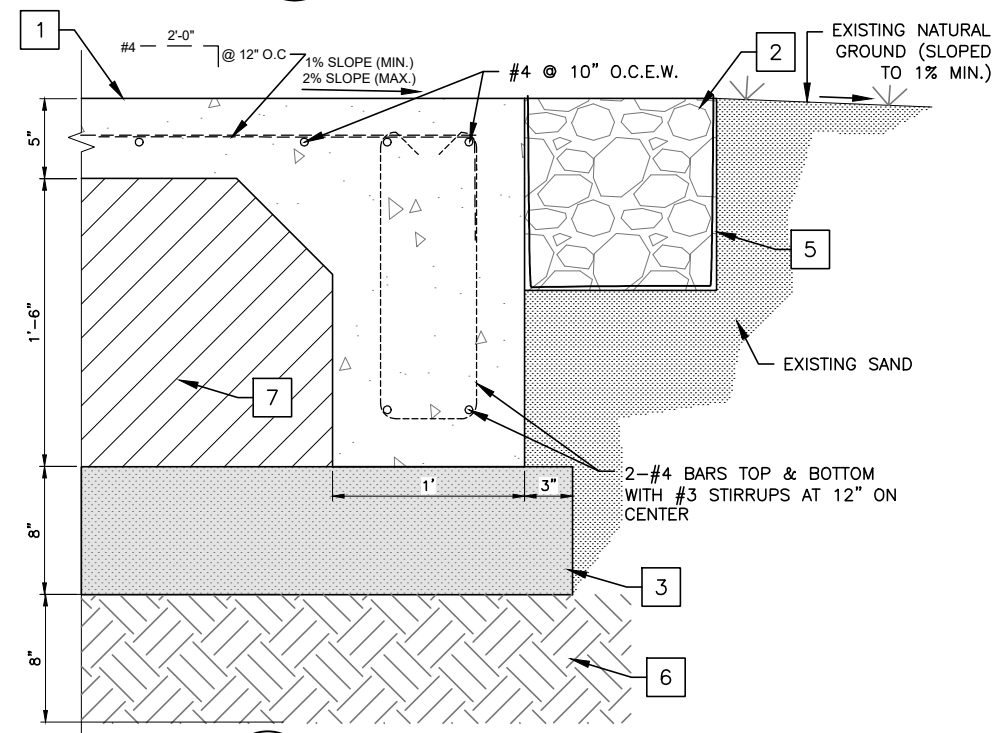
B RINSE STATION PLAN
 C6 C6 SCALE: 1" = 1'-0"

CONSTRUCTION NOTES:

- 1 PROPOSED 79 SF OF 5" CONCRETE SLAB, TO INCLUDE PERIMETER BEAM.
- 2 PROPOSED 4 CY OF RIVER ROCK.
- 3 PROPOSED 10 SY OF CEMENT STABILIZED SAND.
- 4 PROPOSED OUTDOOR SHOWER INSTALLED PER MANUFACTURER RECOMMENDATIONS (MURDOCK M-PCS24 OR APPROVED EQUAL).
- 5 PROPOSED 200 SF OF LANDSCAPING WOVEN GEOTEXTILE FABRIC.
- 6 PROPOSED 8" OF COMPACTED SUBGRADE TO 95% (ASTM D698).
- 7 PROPOSED 3 CY OF CRUSHED LIMESTONE (GRADE A, TYPE 1-2) COMPACTED TO 95% (ASTM D698).
- 8 PROPOSED PAVERS SEE SHEET C14 FOR DETAILS.



A SECTION VIEW
 C6 C6 SCALE: 1" = 1'-0"



1 FOUNDATION DETAIL
 C6 C6 SCALE: 2" = 1'-0"

PROJECT No.:
 C275-21181



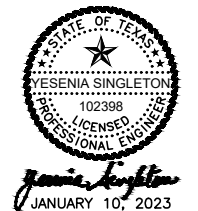
SEA ISLAND CIRCLE
 BEACH ACCESS AMENITY IMPROVEMENTS
 2300 GULF BOULEVARD
 SOUTH PADRE ISLAND, TEXAS 78597

RINSE STATION DETAILS

REVISION NO.	DATE	DESCRIPTION

SCALE: AS NOTED
 DRAWN BY: MF
 APPROVED BY: YS
 DATE:
 JOB NO. C275-21181

C6

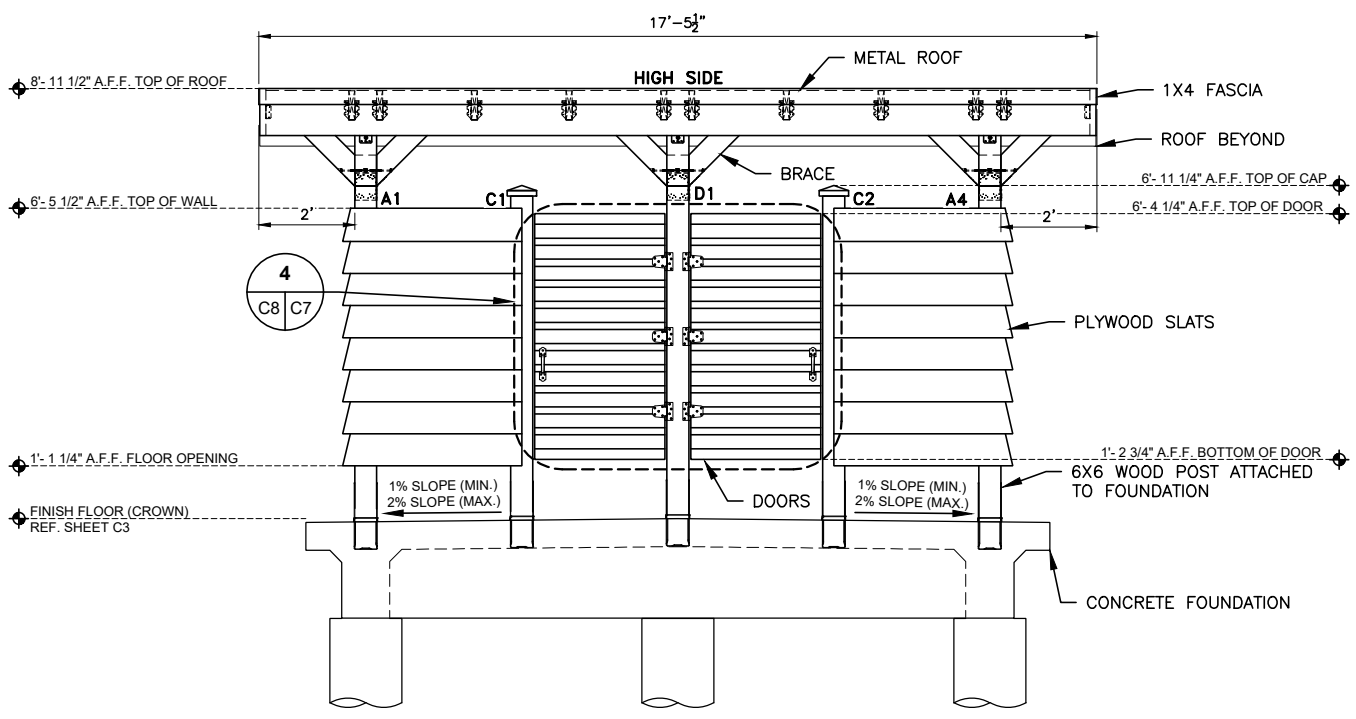


SEA ISLAND CIRCLE
BEACH ACCESS AMENITY IMPROVEMENTS
2300 GULF BOULEVARD
SOUTH PADRE ISLAND, TEXAS 78597

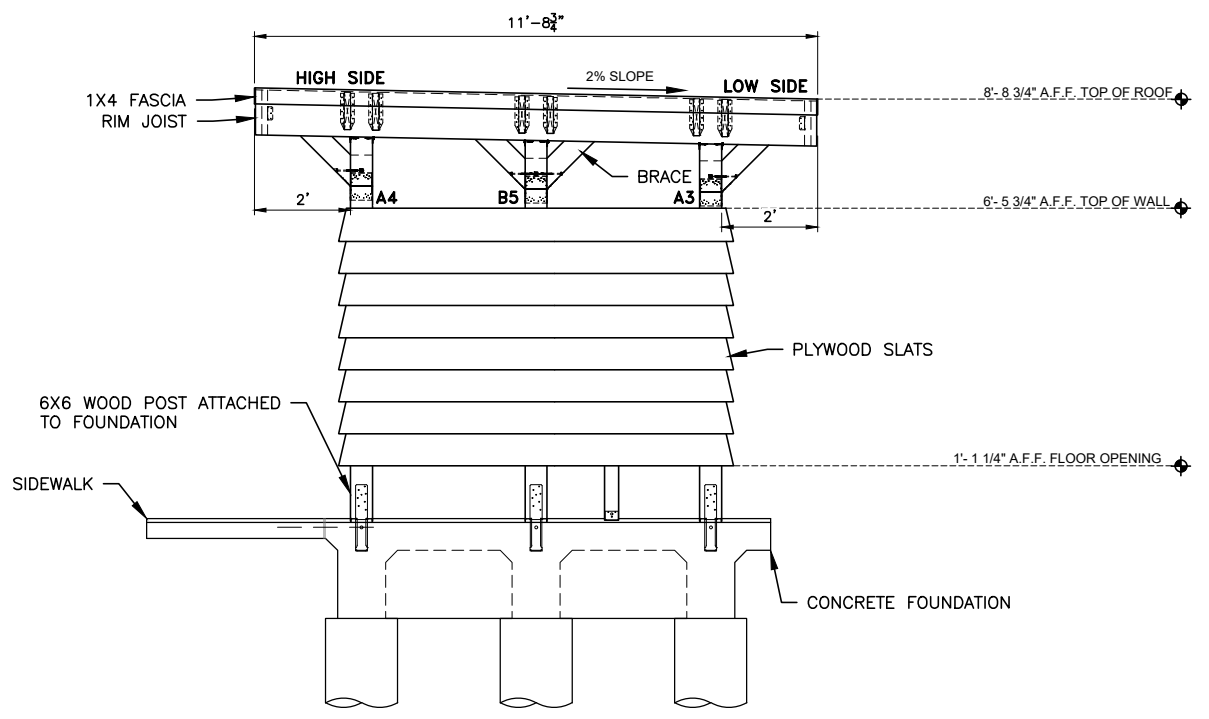
**CHANGING STATION FLOOR PLAN AND
EXTERIOR ELEVATIONS**

SCALE: AS NOTED
DRAWN BY: MF
APPROVED BY: YS
DATE:
JOB NO. C275-21181

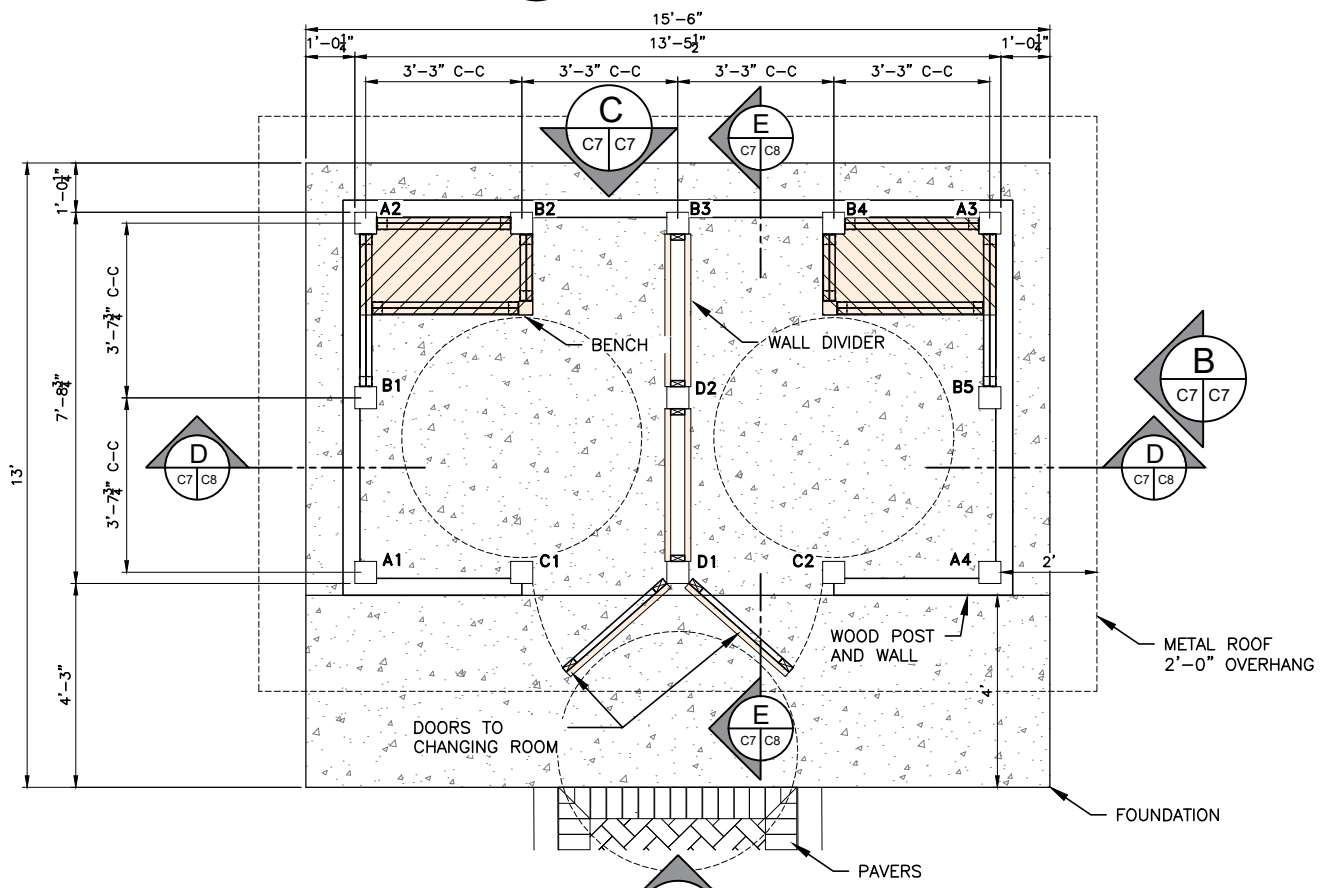
C7



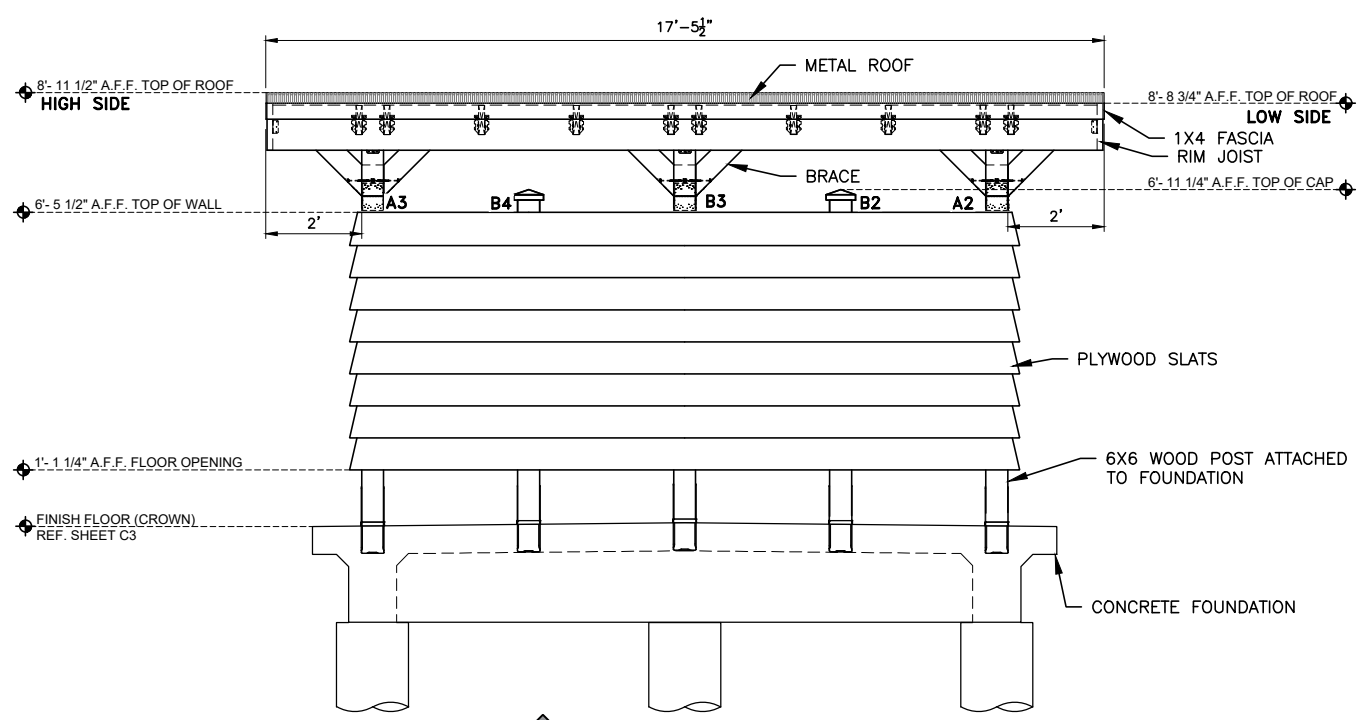
A FRONT VIEW
SCALE: 1" = 2'-0"



B SIDE VIEW
SCALE: 1" = 2'-0"



C CHANGING STATION FLOOR PLAN
SCALE: 1" = 2'-0"



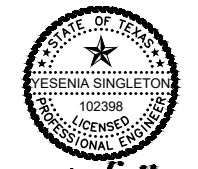
C BACK VIEW
SCALE: 1" = 2'-0"

GENERAL NOTES:

1. ALL HARDWARE TO BE 316 STAINLESS STEEL, UNLESS OTHERWISE SPECIFIED.

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REVISION NO.	DATE	DESCRIPTION
1	12/16/2022	REVISED BENCH DESIGN AND OVER ALL BUILDING DIMENSIONS



JANUARY 10, 2023



SEA ISLAND CIRCLE
BEACH ACCESS AMENITY IMPROVEMENTS
2300 GULF BOULEVARD
SOUTH PADRE ISLAND, TEXAS 78597

**CHANGING STATION INTERIOR
ELEVATIONS AND DETAILS**

SCALE: AS NOTED

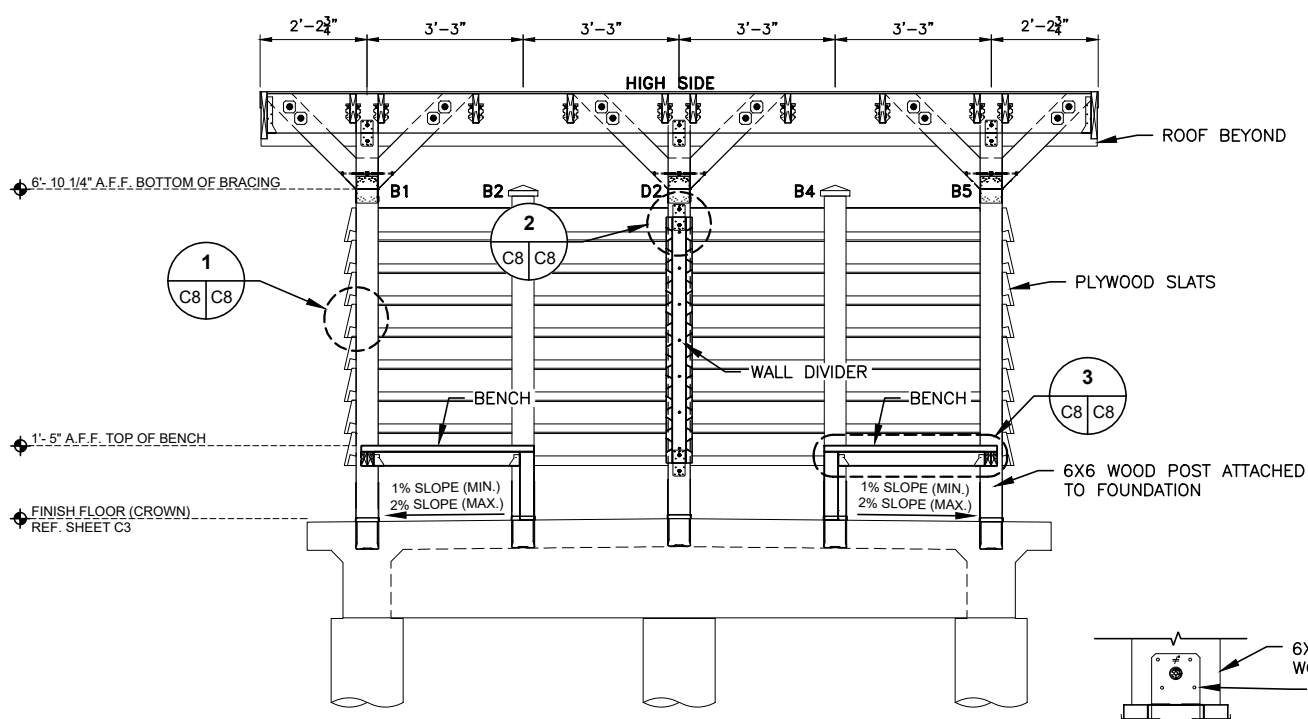
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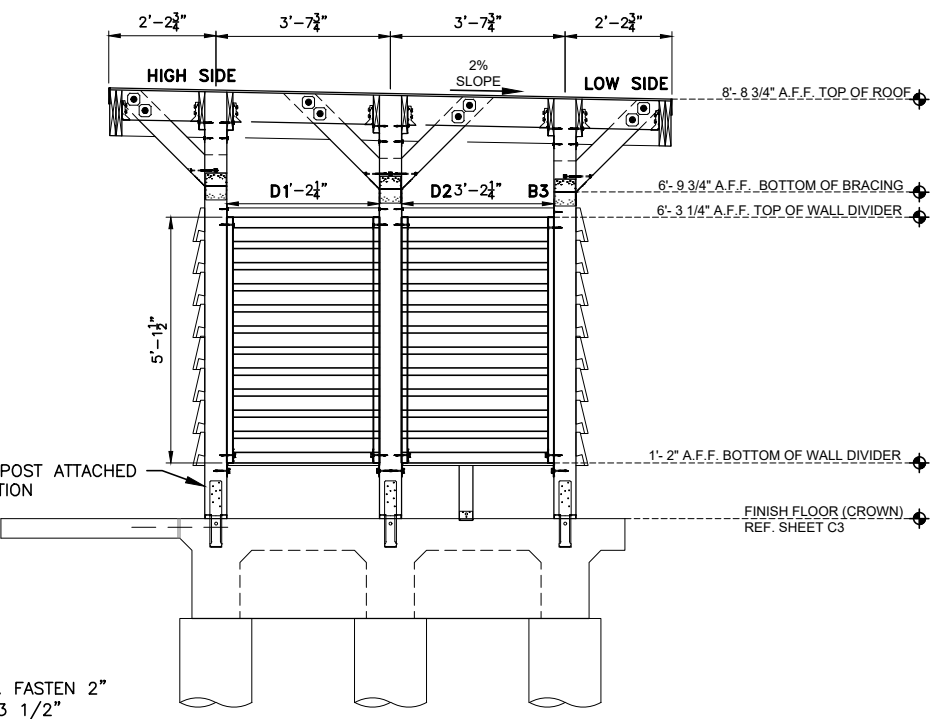
DATE:

JOB NO. C275-21181

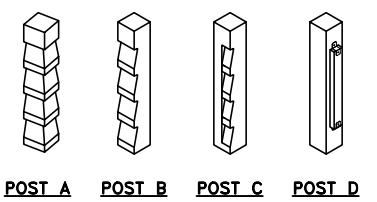
C8



D SECTION VIEW
SCALE: 1" = 2'-0"

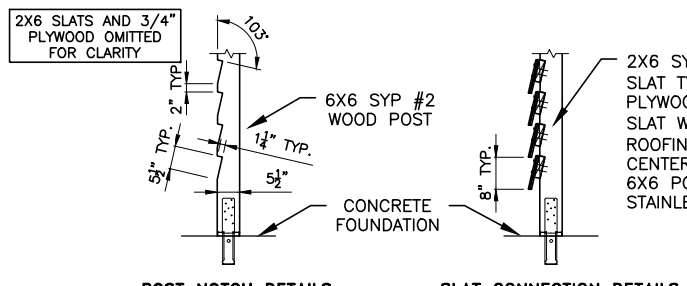


E SECTION VIEW
SCALE: 1" = 2'-0"

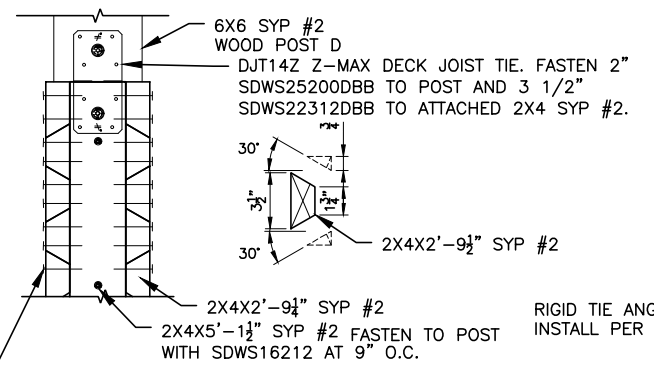


ISOMETRIC VIEWS

WOOD POST SCHEDULE				
	A	B	C	D
1	8'-11 1/2"	8'-10 1/2"	6'-11 3/4"	8'-11"
2	8'-9 3/4"	6'-11 3/4"	6'-11 3/4"	8'-9 3/4"
3	8'-9 3/4"	8'-9"		
4	8'-11 1/2"	6'-11 3/4"		
5		8'-10 1/2"		

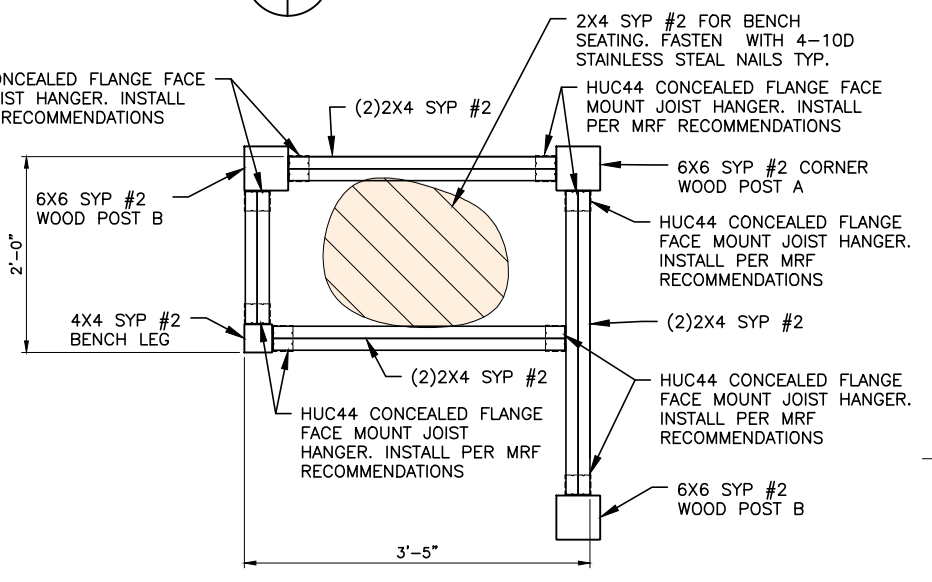


1 WOOD POST DETAILS
SCALE: 1" = 2'-0"

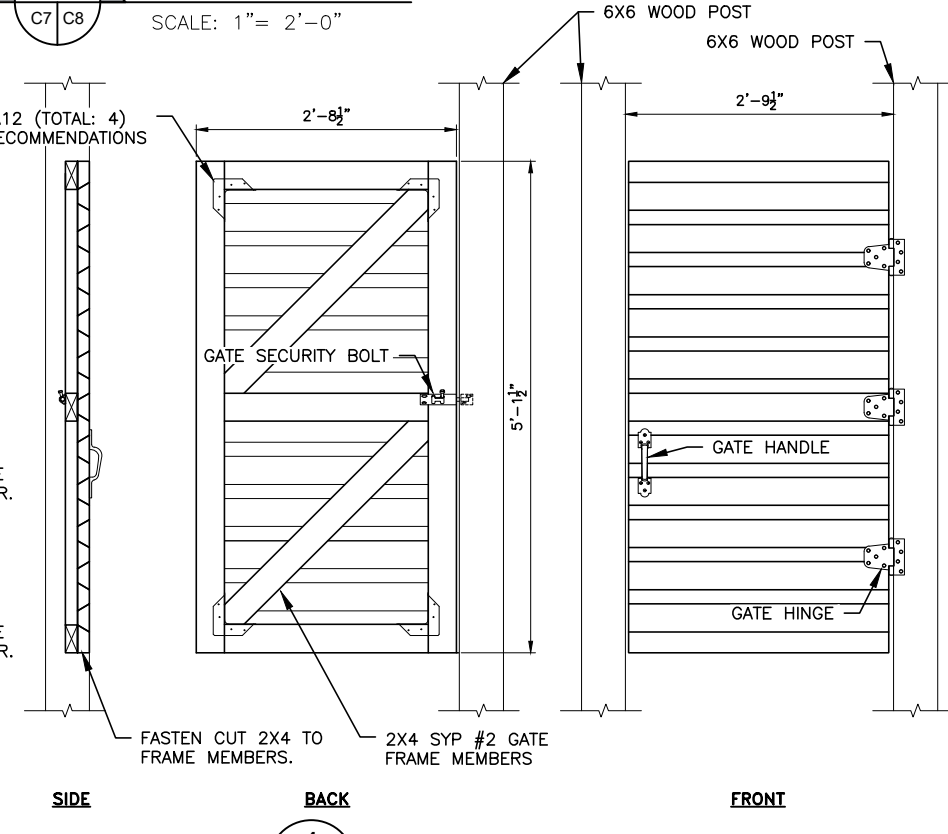


2 WALL DIVIDER DETAILS
SCALE: N.T.S.

FASTEN EACH CUT 2X4 TO 2X4 ATTACHED TO POST WITH 8d STAINLESS STEEL NAILS TYP.



3 WOOD BENCH DETAILS
SCALE: 1" = 1'-0"



4 DOOR DETAILS
SCALE: 1" = 1'-0"

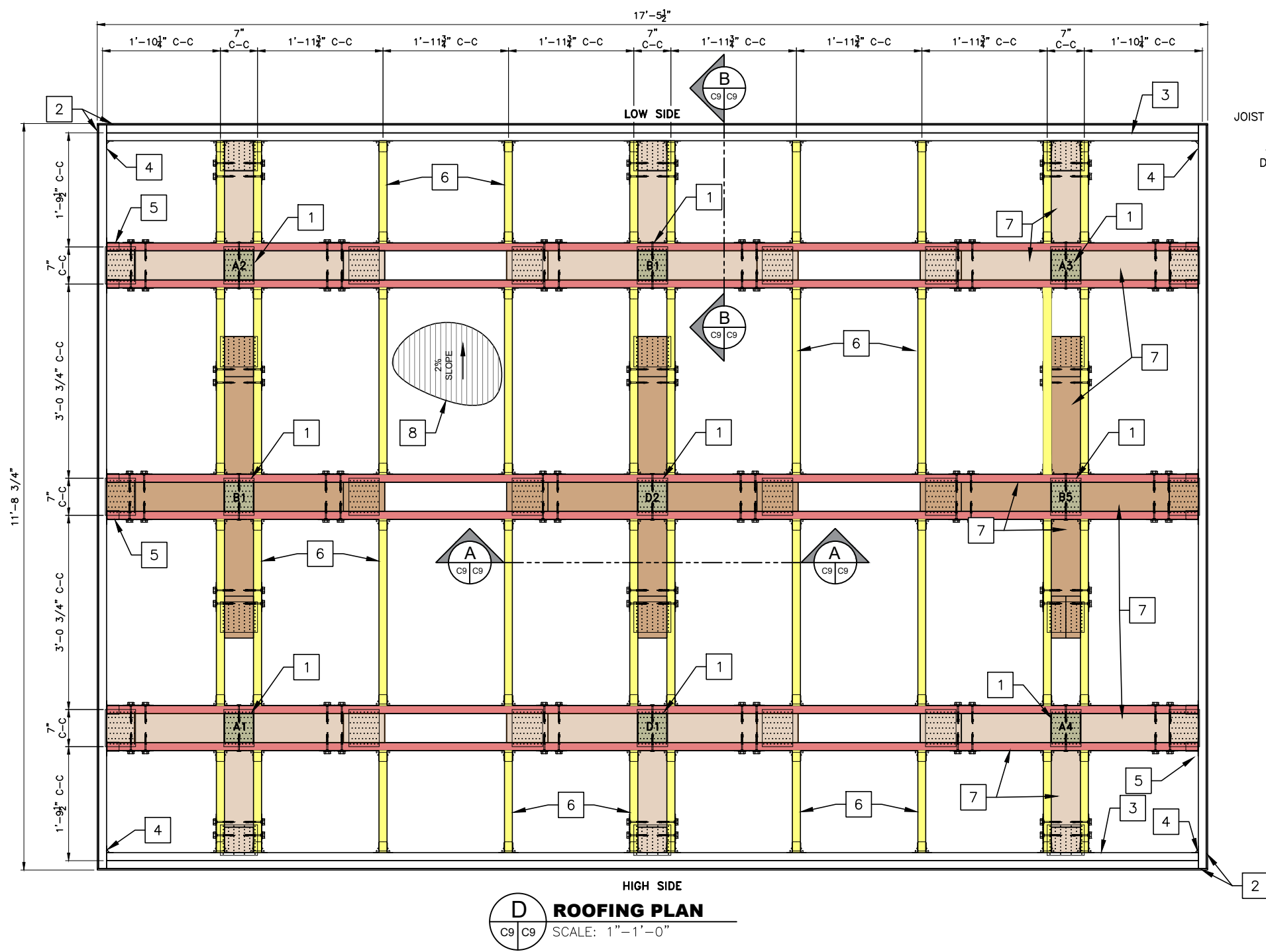
GENERAL NOTES:

- ALL HARDWARE TO BE 316 STAINLESS STEEL, UNLESS OTHERWISE SPECIFIED.

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REVISION NO.	DATE	DESCRIPTION
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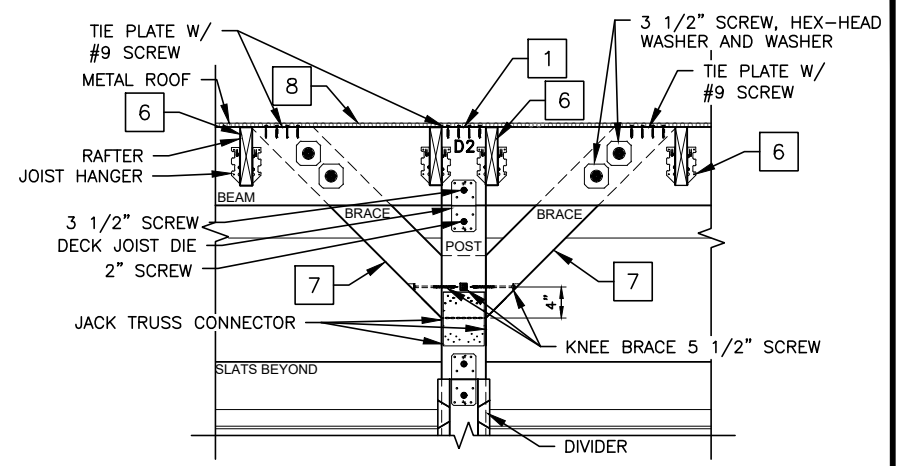
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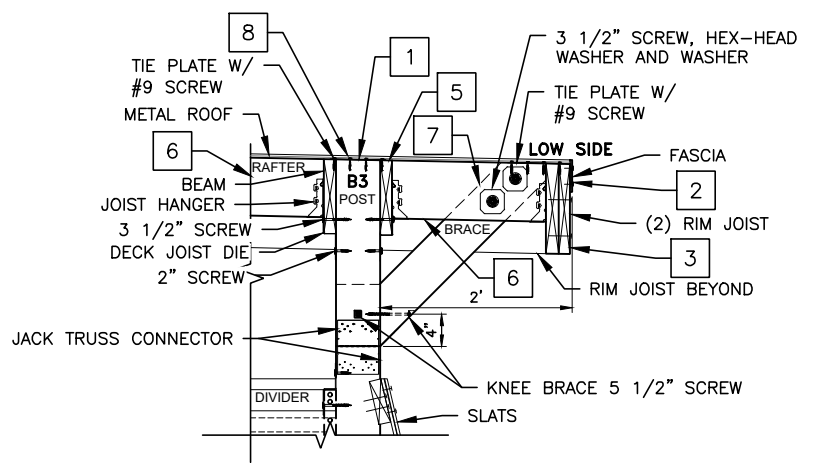
D ROOFING PLAN
SCALE: 1"=1'-0"

CONSTRUCTION NOTES:

- 1. PROPOSED 6X6 SYP #2 POST (TOTAL: 113 LF) ATTACHED TO 2X10 BEAMS ON EACH SIDE CONNECTED WITH DJT14Z Z-MAX DECK JOIST TIE. FASTEN 2" SDWS25200DBB TO POST AND 3 1/2" SDWS22312DBB TO ATTACHED 2X10 SYP #2 BEAMS. ATTACH TIE PLATE TP57 (TOTAL: 9) TO TOP OF POST TO JOIN AND REINFORCE WOOD MEMBERS USING #9 SD CONNECTOR SCREWS.
- 2. PROPOSED 1X4 SYP #2 FASCIA BOARD WITH 1/2" LIP ABOVE METAL SEAM ROOF PANELS. CAULK SEAMS. FASTEN FASCIA BOARD TO 2X12 RIM JOIST WITH T07225WP TRIM SCREWS AT 12" O.C. (TOTAL: 57 LF).
- 3. PROPOSED (2) 2X12 SYP #2 EXTERIOR RIM JOIST FASTENED TOGETHER WITH SDWS16212 AT 2'-0" O.C. TOP AND BOTTOM STAGGERED IN TWO ROWS (TOTAL: 70 LF).
- 4. PROPOSED 2X12 SYP #2 EXTERIOR RIM JOIST (TOTAL: 22 LF) ATTACHED TO PROPOSED GA2 GUSSET ANGLE, G90 GALVANIZED. INSTALL PER MRF RECOMMENDATIONS (TOTAL: 4) TO (2) 2X12 SYP #2 EXTERIOR RIM JOIST TO STABILIZE CORNER.
- 5. PROPOSED 2X10 SYP #2 BEAM (TOTAL: 103 LF) ATTACHED TO PROPOSED HU212 HEAVY FACE-MOUNT JOIST HANGER, G90 GALVANIZED. INSTALL PER MRF RECOMMENDATIONS (TOTAL: 12).
- 6. PROPOSED 2X8 SYP #2 RAFTER (TOTAL: 90 LF) ATTACHED TO PROPOSED LUS26 SIMPSON 2X8 FACE MOUNT JOIST HANGER, G90 GALVANIZED. INSTALL PER MRF RECOMMENDATIONS (TOTAL: 80).
- 7. PROPOSED 6X6 SYP #2 BRACE @ 45° ANGLE (TOTAL: 90 LF) KNEE BRACE TO POST 5 1/2" SDWS22512DBB (TOTAL: 30) 4" FROM BASE. ATTACH JACK TRUSS CONNECTOR TJC57 (TOTAL: 30) TO BRACE AND POST. CONNECT TOP OF 6X6 BRACE TO 2X10 BEAM WITH 3 1/2" SCREW SDWS22312DBB (TOTAL: 120), HEX-HEAD WASHER STN22 (TOTAL: 120), AND WASHER APVDW (TOTAL: 120). ATTACH TIE PLATE TP57 (TOTAL: 30) TO TOP OF BRACE AND BEAMS TO JOIN AND REINFORCE WOOD MEMBERS USING #9 SD CONNECTOR SCREWS.
- 8. PROPOSED METAL ROOF. MATCH RESTROOMS COLOR. INSTALL PER MRF RECOMMENDATIONS.



A SECTION VIEW
SCALE: 1"=1'-0"



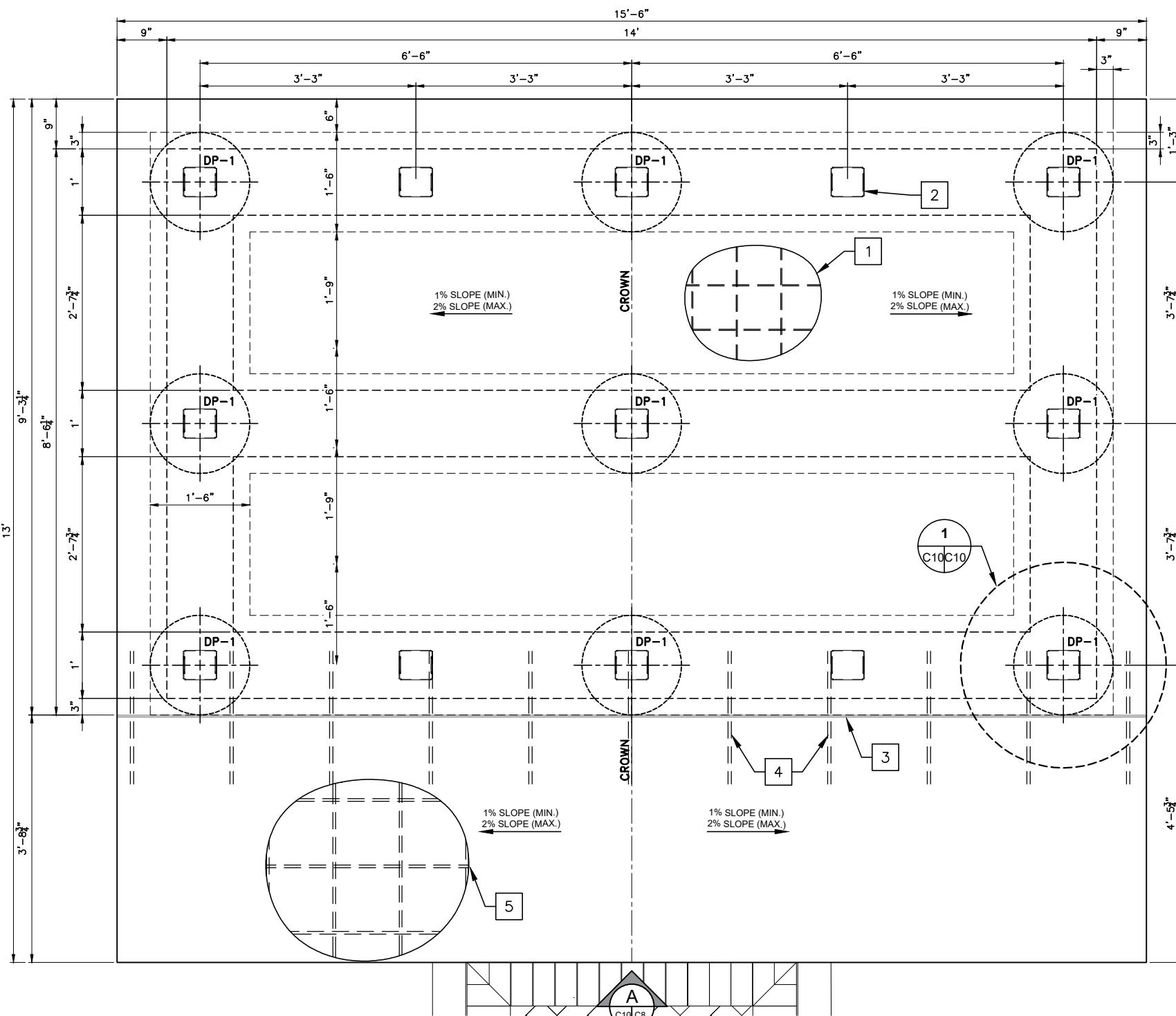
B SECTION VIEW
SCALE: 1"=1'-0"

GENERAL NOTES:

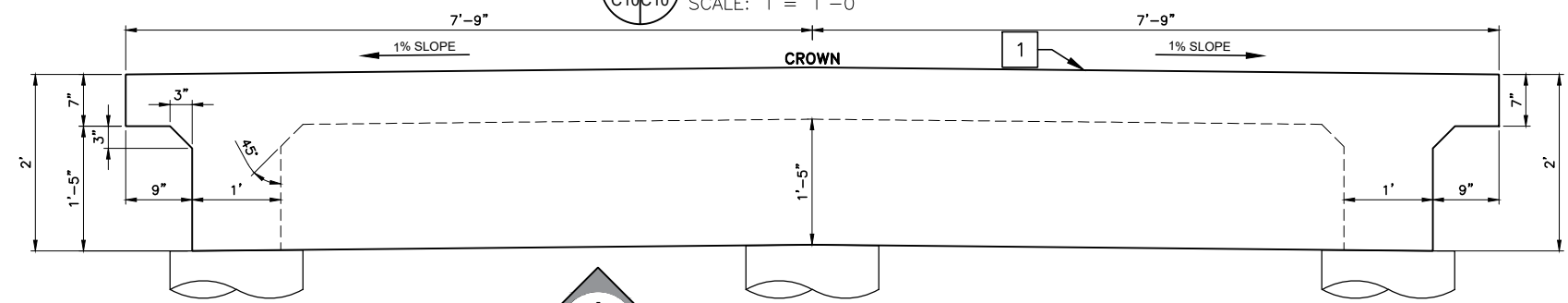
- 1. ALL HURRICANE TIES SHALL BE SIMPSON STRONG-TIE STAINLESS STEEL TYPE 316 OR APPROVED EQUAL. INSTALL PER MANUFACTURE'S RECOMMENDATIONS.
- 2. ROOF SHEATHING NAILS WILL BE 10D STAINLESS STEEL NAILS AT 4" ON CENTER ALONG EDGE AND 6" ON CENTER AT INTERIOR SUPPORTS.
- 3. ALL 10D STAINLESS STEEL NAILS TO MEET MINIMUM LENGTH AT 3" AND SHANK DIAMETER AT 0.148"
- 4. PROVIDE PLYWOOD FILLER AS REQUIRED TO BE FLUSH WITH WOOD POST.

PROJECT No.: C275-21181	
 LJA ENGINEERING TBE FIRM REG. NO. F-1386	
 South Padre Island	
CHANGING STATION ROOF PLAN AND DETAILS	
SEA ISLAND CIRCLE BEACH ACCESS AMENITY IMPROVEMENTS 2300 GULF BOULEVARD SOUTH PADRE ISLAND, TEXAS 78597	
SCALE: AS NOTED	
DRAWN BY: MF	
APPROVED BY: YS	
DATE:	
JOB NO. C275-21181	
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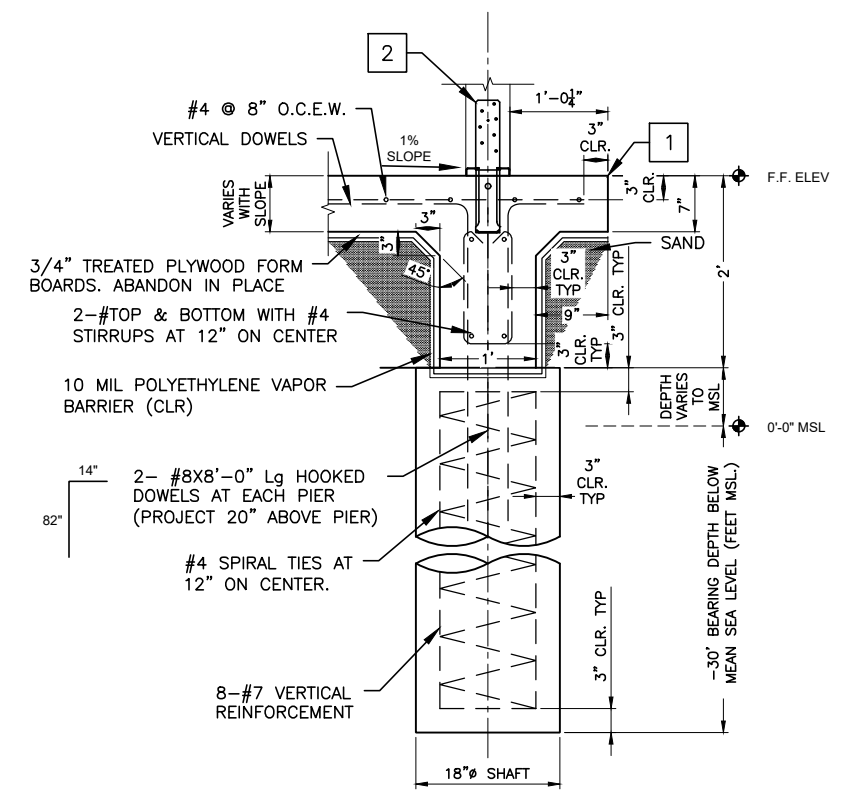
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E FOUNDATION PLAN
C10C10 SCALE: 1" = 1'-0"



A FOUNDATION ELEVATION
C10C10 SCALE: 1" = 1'-0"



1 DP-1 DETAIL
C10C10 SCALE: 1" = 1'-0"

GENERAL NOTES:

1. ALL SLABS & BEAMS ARE SUSPENDED. REFER TO SECTIONAL DETAILS FOR REINFORCEMENT.
2. SPLICE JOINTS FOR TOP BARS FOR REINFORCED CONCRETE SLABS AND BEAMS SHALL BE LOCATED AT MIDDLE THIRD OF THE SPAN OF SLABS OR BEAMS.
3. SPLICE JOINTS FOR BOTTOM BARS FOR REINFORCED CONCRETE SLAB AND BEAMS SHALL BE LOCATED AT SUPPORTS.
4. CONSTRUCTION JOINTS OF CONCRETE BEAMS/SLABS SHALL BE LOCATED WITHIN THE MIDDLE THIRD OF THE SPAN. CONTRACTOR TO SUBMIT PROPOSED LOCATION OF CONSTRUCTION JOINTS TO ARCHITECT/ENGINEER FOR APPROVAL.
5. LAPPING OF SPLICE BARS AT SPLICE JOINTS SHALL BE 62 BAR DIAMETER OR A MINIMUM OF 36" LONG.
6. INDICATES SIMPSON 6X6 COLUMN BASE CBSQ66 HDG.

CONSTRUCTION NOTES:

1. PROPOSED 7" CONCRETE FOUNDATION SLAB AT A 1% SLOPE (TOTAL: 182.1 ft³) WITH #4 @ 8" O.C.E.W. ON COMPACTED SELECT FILL.
2. PROPOSED 6X6 COLUMN BASE CBSQ66 HDG (TOTAL: 13) TYP. INSTALL PER MRF RECOMMENDATIONS.
3. PROPOSED 1/2" EXPANSION JOINT FILLER WITH SEALANT.
4. PROPOSED #5 BARS, 24" LG, SMOOTH DOWELS AT 18" ON CENTER (SLEEVE FREE END).
5. PROPOSED 4" CONCRETE SIDEWALK WIDTH IS 4'-6" AT A 1% SLOPE (TOTAL: 70 SF) WITH #4 @ 12" O.C.E.W.

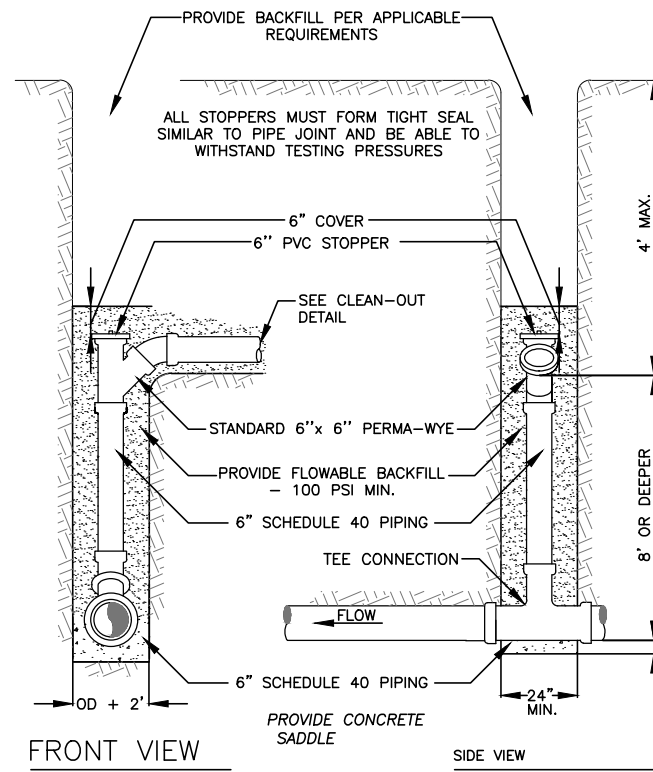


SEA ISLAND CIRCLE
BEACH ACCESS AMENITY IMPROVEMENTS
2300 GULF BOULEVARD
SOUTH PADRE ISLAND, TEXAS 78597
**CHANGING STATION FOUNDATION
PLAN AND DETAILS**

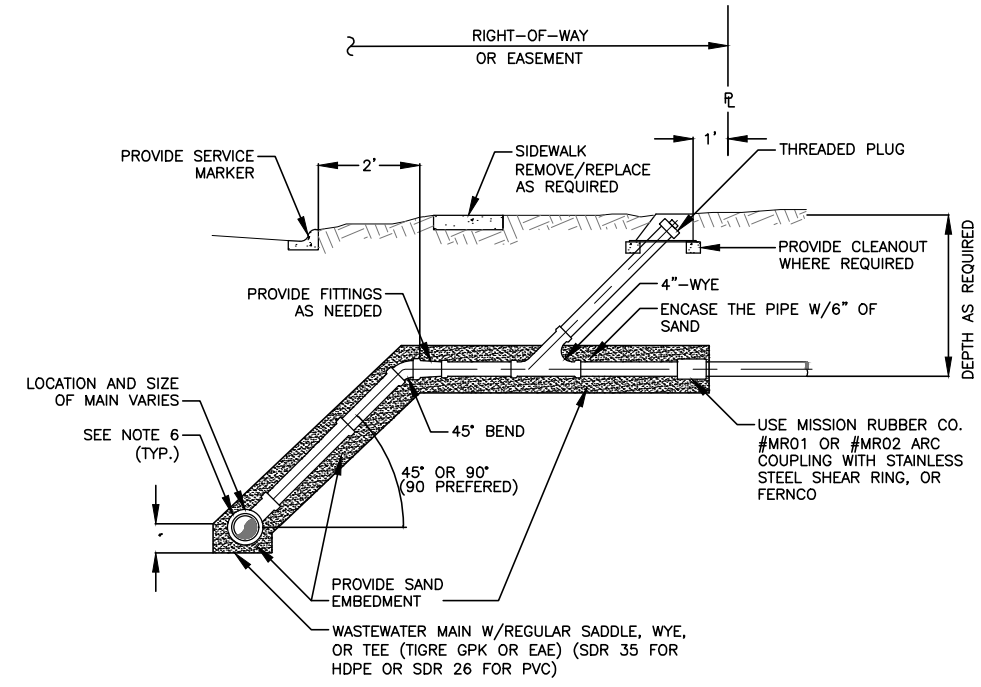
SCALE: AS NOTED
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APPROVED BY: YS
DATE:
JOB NO. C275-21181

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REVISION NO.	DATE	DESCRIPTION
1	12/16/2022	REVISED OVER ALL DIMENSION



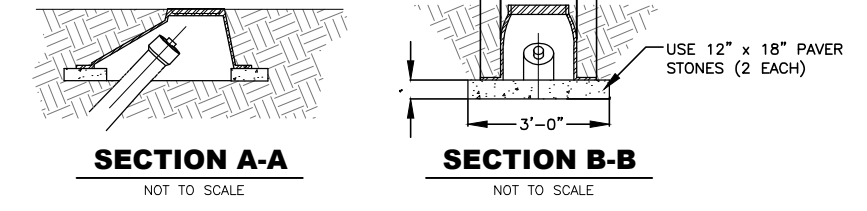
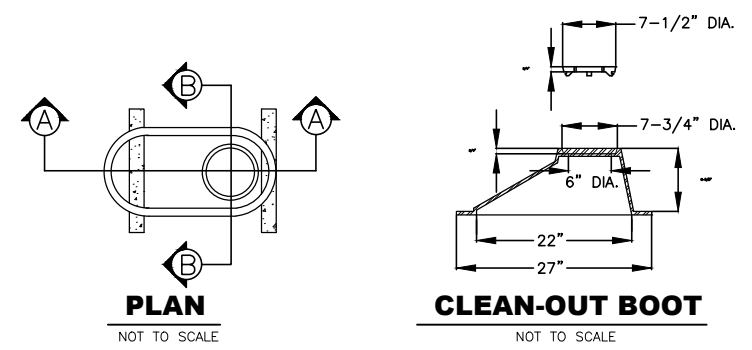
DEEP CUT SERVICE CONNECTION
NOT TO SCALE



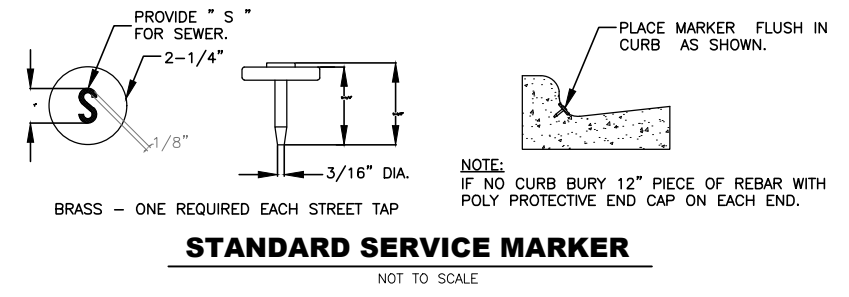
SERVICE CONNECTION DETAILS
NOT TO SCALE

SERVICE CONNECTION NOTES:

1. CONTRACTOR TO PROVIDE SERVICE CONNECTION TAP TO THE R.O.W. LINE & CONNECT EXIST. SERVICE LINE OUTSIDE EASEMENT AS SHOWN AND REQUIRED.
2. ALL SERVICE PIPE AND FITTINGS TO BE SOLVENT WELD SCH 40 PVC UNLESS SHOWN OTHERWISE IN THE PLANS.
3. FOR EXISTING MAIN PIPE MATERIAL - PVC AND/OR VCP USE PUBLIC WORKS DEPARTMENT APPROVED CONNECTOR.
4. FOR NEW PVC MAIN AND SERVICE, USE PVC WYE OR TEE AS DIRECTED AT SERVICE CONNECTION.
5. IF PIPE LENGTH, ON SERVICE LINE, IS GREATER THAN 50', USE 6" PVC SCH 40 FROM CLEANOUT WYE TO THE MAIN LINE.



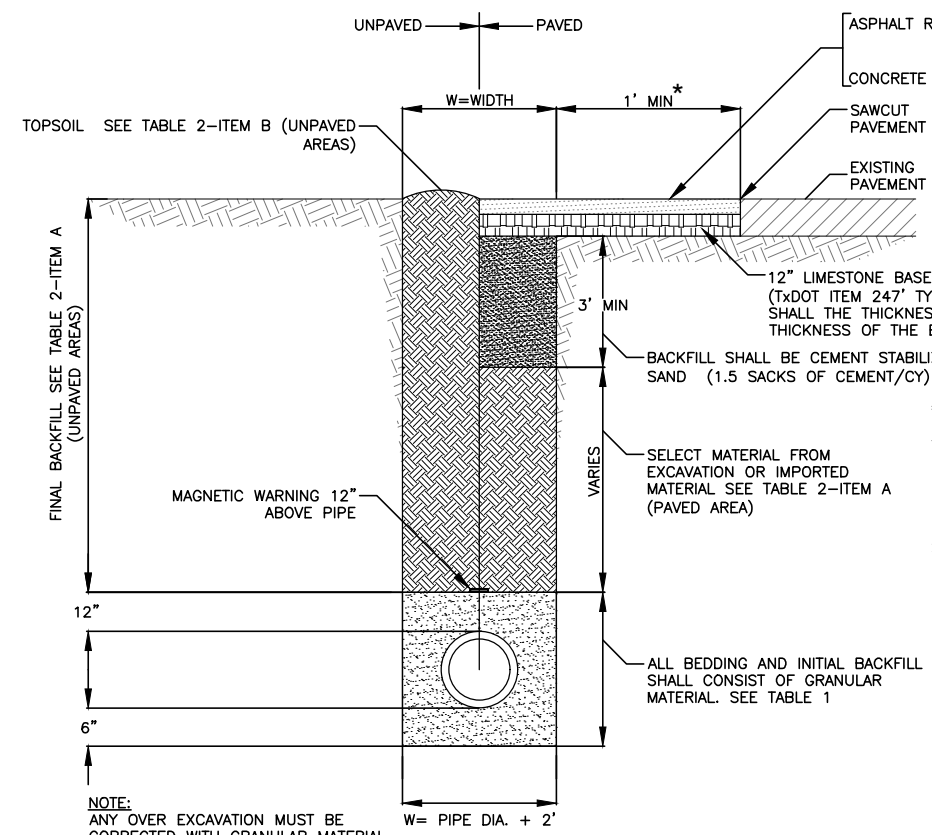
TYPICAL CAST IRON CLEAN-OUT BOOT
NOT TO SCALE



GENERAL NOTES FOR BACKFILL

TABLE 1 BEDDING AND INITIAL BACKFILL (BELOW PIPE TO 12" ABOVE PIPE)	
ALL BEDDING AND INITIAL BACKFILL SHALL CONSIST OF THE FOLLOWING OR REFER TO DESIGN ENGINEER REQUIREMENTS: GRANULAR BACKFILL CONSISTING OF EITHER NATURAL SAND OR SANDY GRAVEL, OR MATERIAL PRODUCED BY CRUSHING OF NATURAL STONE OR GRAVEL:	
① EXCAVATIONS <20 FT. DEEP AND ABOVE WATER TABLE, USE MATERIAL MEETING THE FOLLOWING CRITERIA.	MEETING REQUIREMENTS OF ASTM D2487 FOR: SP GP SW GW SP-SM GP-GM SW-SM GW-GM
AND IN ADDITION: PASSING 1/2" SIEVE - 100% PASSING #4 SIEVE - 30% MINIMUM PLASTICITY INDEX (PI) - NP TO 10 MAX.	
② IN DEEP EXCAVATIONS (>20') OR BELOW WATER TABLE, USE CRUSHED STONE OR CRUSHED GRAVEL MEETING GRADATION OF:	A. CONCRETE COARSE AGGREGATE; TxDOT ITEM 421; GRADE 2, 3, OR 4. OR B. CRUSHED LIMESTONE PER TxDOT ITEM 421' GRADE 2, 3, OR 4.

TABLE 2 FINAL BACKFILL (GREATER THAN 12" ABOVE PIPE)	
UNPAVED AREAS	PAVED AREAS
A. FROM 12" ABOVE PIPE TO BOTTOM OF TOPSOIL BACKFILL SHALL BE APPROVED SELECT MATERIAL FROM THE EXCAVATION; OR IMPORTED MATERIAL; ALL TO BE FREE OF ROCKS, DEBRIS, OR ANY CLUMPS GR- EATER THAN 2" IN DIAMETER; LOOSE LIFTS TO BE PLACED 10" MAX. COMPACT MATERIAL TO 95% STD. PROCTOR (D698). MOISTURE TO BE ADJUSTED TO ± 3% OF OPTIMUM.	A. FROM 12" ABOVE PIPE TO 3' BELOW BOTTOM OF ROAD BASE: BACKFILL SHALL BE SELECT MATERIAL FROM EXCAVATION OR IMPORTED MATERIAL. IN EITHER CASE, ALL MATERIAL SHALL MEET THE FOLLOWING: LL<35 PI 8-20 NO CLUMPS > 2" DIA. MOISTURE - 1 TO +3% COMPACT 95% D698 STD PROCTOR LOOSE LIFTS OF 12" MAX OR IF SELECT MATERIAL FROM EXCAVATION DOES NOT MEET REQUIREMENTS, THEN USE CEMENT STABILIZED SAND. SEE TABLE 2-ITEM B BELOW.
B. TOPSOIL TO BE PROVIDED EQUAL OR BETTER THAN EXISTING; AND MATCH EXISTING TOPSOIL DEPTH. COMPACT TO EXISTING ADJACENT TOP-SOIL THICKNESS. (CONSTRUCTION TO BE PERFORMED BY "DOUBLE DITCH" METHOD-TOP SOIL SALVAGED TO BE PLACED ON TOP)	B. FROM 3' BELOW BOTTOM OF ROAD BASE TO BOTTOM OF ROAD BASE: BACKFILL SHALL BE CEMENT STABILIZED SAND (1.5 SK/C.Y.) AND SHALL MEET THE FOLLOWING REQUIREMENTS: SAND GRADATION: % PASSING #4 55-100 #10 40-100 #40 25-100 #200 10-20 PI NP-10 COMPACT TO 95% OF D588. MOISTURE TO BE ADJUSTED TO (+/-2%) OF OPTIMUM.



TRENCH BACKFILL FOR WASTEWATER LINES AND PAVEMENT REPAIR FOR UTILITIES
NOT TO SCALE

- *NOTE:
1. THE INSTALLATION OF A UTILITY THAT CROSSES THE ROW AT A PERPENDICULAR OR NEAR PERPENDICULAR ANGLE AND HAS AN O.D. OF 6" OR LESS WILL NOT BE PERMITTED TO BE INSTALLED BY CUTTING THE ROAD SECTION.
 2. ANY UTILITY RELATED STREET EXCAVATION/CUT SHALL INCLUDE REPAIR OF NOT ONLY THE IMPACTED TRENCH, BUT ALSO A FULL LANE OVERLAY/PAVEMENT REPAIR FOR PARALLEL CUTS OR 12" WIDE FOR PERPENDICULAR CUTS ON ASPHALT STREETS, AND FULL PANEL REPLACEMENT ON CONCRETE STREETS. A SITE SPECIFIC PAVEMENT CUT AND RESTORATION PLAN THAT INDICATES THE GENERAL NATURE OF THE PAVEMENT AND ROADWAY TO BE CUT AND RESTORED, THE EXISTING PAVEMENT SECTION (IF KNOWN), THE LOCATION AND APPROXIMATE AREA OF THE EXCAVATION/PAVEMENT REPAIR, INCLUDING THE APPROXIMATE LENGTH AND WIDTH OF THE PAVEMENT REPAIR IN RELATION TO THE ROADWAY TRAVEL LANE(S), MUST BE INCLUDED IN THE DRAWINGS/PERMIT APPLICATION.

PROJECT No.:
C275-21181

Yesenia Singleton
102398
LICENSED PROFESSIONAL ENGINEER
JANUARY 10, 2023

LJA ENGINEERING
TBE FIRM REG. NO. F-1386

South Padre Island

SEA ISLAND CIRCLE
BEACH ACCESS AMENITY IMPROVEMENTS
2300 GULF BOULEVARD
SOUTH PADRE ISLAND, TEXAS 78597

WASTEWATER LINE DETAILS

SCALE: AS NOTED

DRAWN BY: MF

APPROVED BY: YS

DATE:

JOB NO. C275-21181

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WATER DISTRIBUTION SYSTEM GENERAL NOTES

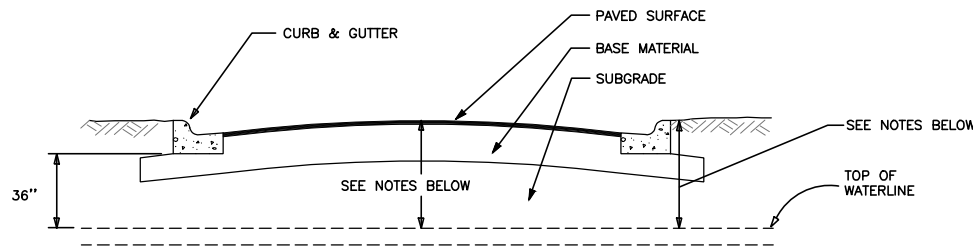
- PROPOSED WATER DISTRIBUTION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF SOUTH PADRE ISLAND PUBLIC WORKS DISTRIBUTION SYSTEM STANDARDS.
- THE CITY RESERVES THE RIGHT TO ACCEPT THE SYSTEM FOR OPERATION AT ANY TIME, BUT THE DATE OF OFFICIAL ACCEPTANCE OF THE SYSTEM WILL BE UPON COMPLETION OF THE PROJECT AND SATISFACTORY TEST RESULTS.
- THE EXISTING SYSTEM SHALL REMAIN IN SERVICE UNTIL THE PROPOSED SYSTEM IS PUT INTO SERVICE. THE CONTRACTOR SHALL PROTECT THE EXISTING SYSTEM UNTIL IT IS TAKEN OUT OF SERVICE.
- THE CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOR AND EQUIPMENT REQUIRED TO INSTALL THE PROPOSED SYSTEM.
- TESTING OF LINES (STERILIZATION AND PRESSURED) SHALL BE DONE BY THE CONTRACTOR UNDER THE SUPERVISION OF PUBLIC WORKS DEPARTMENT. WATER FOR FILLING THE NEW WATER LINE AND PERFORMING TESTS WILL BE FURNISHED TO THE CONTRACTOR BY THE CITY OF SOUTH PADRE ISLAND THROUGH A STANDARD WATER CONSTRUCTION METER CONNECTION. STANDARD WATER CONSTRUCTION METER AND GAUGE WILL BE SUPPLIED BY THE CITY AFTER THE CONTRACTOR HAS PAID ALL APPLICABLE FEES FOR THE WATER CONSTRUCTION METER. ALL WATER DISCHARGE MUST BE DECHLORINATED IN ACCORDANCE WITH TCEQ & NPDES REGULATIONS.
- THE CONTRACTOR SHALL RECOVER AND STOCK-PILE AT A LOCATION DESIGNATED BY THE PUBLIC WORKS INSPECTOR, ALL FIRE HYDRANTS, VALVES, AND FITTINGS THAT ARE TAKEN OUT OF SERVICE. THESE MATERIALS MAY BE SALVAGED BY THE CITY. HOWEVER, ALL ITEMS NOT CLAIMED BY THE CITY PRIOR TO THE FINAL INSPECTION SHALL BE DISPOSED OF BY THE CONTRACTOR.
- THE CONTRACTOR SHALL BEAR ALL COST ASSOCIATED WITH WATERLINE REPAIRS (WHICH RESULT FROM DAMAGE CAUSED BY THE CONTRACTOR) UPON COMPLETION OF PROJECTS. ALL WATER LINES SHALL BE FREE OF ALL PATCHES AND SPLICES.
- ALL PHYSICAL TIES OF THE PROPOSED SYSTEM INTO THE EXISTING WATERLINE SHALL BE RECONNECTED AND BE MADE UNDER SUPERVISION OF THE PUBLIC WORKS INSPECTOR. THE CONTRACTOR SHALL FURNISH ALL MATERIALS AND ALL EQUIPMENT THAT IS REQUIRED TO MAKE TIE-INS. CITY PUBLIC WORKS CREWS WILL MAKE TAPS ON CITY MAINS ARRANGED THROUGH PUBLIC WORKS INSPECTOR (72 HOUR NOTIFICATION).
- ALL EXISTING SERVICE CONNECTIONS TIED ONTO THE EXISTING WATERLINE SHALL BE RECONNECTED BY THE CONTRACTOR, INCLUDING RELOCATING EXISTING WATER METERS. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO NOTIFY AND COORDINATE WITH THE PUBLIC WORKS INSPECTOR SAID RECONNECTIONS / RELOCATIONS IN ADVANCE OF CONSTRUCTION TO AVOID DELAYS. (NO SEPARATE COSTS)
- MINOR LENGTH OF DUCTILE IRON PIPE ADJACENT TO FITTINGS MAY BE REQUIRED AS DIRECTED BY THE PUBLIC WORKS INSPECTOR BASED ON CONDITIONS ENCOUNTERED IN THE FIELD. THE CONTRACTOR SHALL USE D.I.P. AS DIRECTED AND SHALL BE PAID AT THE UNIT PRICE BID FOR THE APPROPRIATE SIZE WATERLINE. A MINOR LENGTH IS DEFINED AS A SINGLE LOCATION REQUIRING THE USE OF TWO JOINTS OR LESS.
- MINOR ADJUSTMENTS IN THE LOCATIONS OF FITTINGS, VALVES, FIRE HYDRANTS, ETC. CAN BE ANTICIPATED. THE CONTRACTOR SHALL MAKE SAID MINOR ADJUSTMENTS AS DIRECTED BY THE ENGINEER AND/OR PUBLIC WORKS INSPECTOR AT NO INCREASE OF CONTRACT PRICE. PUBLIC WORKS WILL BE NOTIFIED PRIOR TO ALL CHANGES.
- ALL NIPPLES BETWEEN FITTINGS AND VALVES ALONG MAINS SHALL BE DUCTILE IRON.
- ALL DUCTILE IRON PIPES, VALVES, AND FITTINGS SHALL BE WRAPPED WITH (2) THICKNESSES OF 8 MIL. POLYETHYLENE AND SHALL BE RESTRAINED WITH "MEGALUG", MECHANICAL JOINT RESTRAINT OR ENGINEER APPROVED EQUAL AT ALL FITTINGS. CONCRETE THRUST BLOCKS SHALL BE PLACED BEHIND ALL FIRE HYDRANTS AS SHOWN ON DETAIL EXCEPT WHERE LOCKING OR SWIVEL FITTINGS ARE UTILIZED, UNLESS OTHERWISE SPECIFIED BY THE PUBLIC WORKS DEPARTMENT.
- ALL OFFSETS ARE TO BE DUCTILE IRON PIPE ASSEMBLIES LOCKED TOGETHER BY RETAINER GLANDS. DUCTILE IRON BENDS SHALL BE UTILIZED FOR ANY CHANGES IN ALIGNMENT OR GRADE.
- IF A WATER LINE IS TO BE ABANDONED, THE CONTRACTOR WILL FILL WITH CONTROLLED LOW STRENGTH MATERIAL, "DARAFILL" BRAND OR ENGINEER APPROVED EQUAL, VALVES WILL BE REMOVED OR FILLED AS REQUIRED BY PUBLIC WORKS INSPECTOR.
- CONTRACTOR SHALL COORDINATE WITH PUBLIC WORKS INSPECTOR AND NOTIFY ALL AFFECTED CUSTOMERS 24 HOURS PRIOR TO KILLOUT OF EXISTING WATER SYSTEM.
- WATER DISTRIBUTION SYSTEM STANDARDS CALL FOR MAXIMUM 48" COVER ON WATERLINES. WHEN DEPTHS EXCEED 48" COVER TO AVOID OBSTRUCTION, THE USES OF BENDS COULD BE REQUIRED.
- CONTRACTOR SHALL KEEP ALL EXISTING VALVES ACCESSIBLE DURING ALL PHASES OF CONSTRUCTION.
- ALL NEW WATER MAINS SHALL BE INSTALLED SO THAT PIPE IDENTIFICATION MARKINGS ARE LOCATED ON THE TOP OF THE PIPE.
- ALL SERVICE LINES UNDER PAVEMENT SHALL BE ONE INCH, INSIDE DIAMETER, MINIMUM, UNLESS SPECIFIED OTHERWISE.

SEPARATION OF WATER AND WASTEWATER LINES

- THE SEPARATION OF WATER AND WASTEWATER LINES AND THE MATERIAL USED SHALL BE IN ACCORDANCE WITH THE "RULES & REGULATIONS FOR PUBLIC WATER SYSTEMS" OF TEXAS COMMISSION ON ENVIRONMENTAL QUALITY AND THE CITY WATER DETAILS.
- WHENEVER WATER & WASTEWATER LINES CROSS, ONE JOINT OF C900 PVC WATER LINE SHALL BE CENTERED OVER THE WASTEWATER LINE IN ADDITION TO ANY REQUIREMENTS AS DICTATED BY ITEM 1 ABOVE.

NOTES:

CONTRACTOR MAY BE REQUIRED BY THE PUBLIC WORKS DEPARTMENT INSPECTOR TO INSTALL CENTERED JOINTS OF DUCTILE IRON PIPE AT WATERLINE CROSSINGS OF EXISTING HAZARDOUS PRODUCT FLOWLINES.

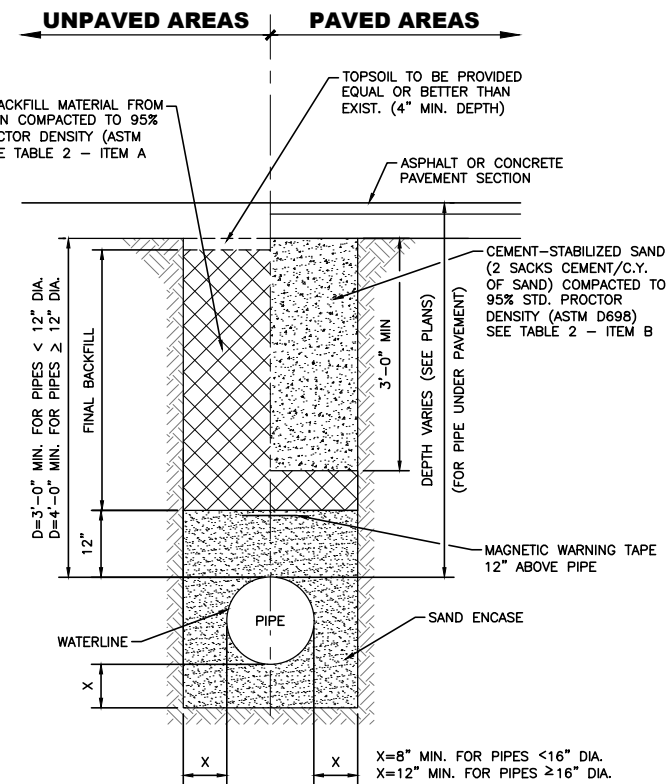


WATERLINE MINIMUM COVER REQUIREMENTS

NOT TO SCALE

NOTES:

- ALL MAINS IN THE STREET SHALL HAVE A MINIMUM OF 36" OF COVER AND BE 12" MINIMUM BELOW SUBGRADE AT ALL POINTS AND HAVE VALVE CLEARANCES IN ACCORDANCE WITH THE VALVE DETAIL.
- ALL TRANSMISSION MAINS (12" DIAMETER & ABOVE) IN THE STREET SHALL HAVE 48" OF COVER AT ALL POINTS.
- ALL MAINS NOT UNDER THE STREET SHALL HAVE A MINIMUM OF 36" OF COVER AT ALL POINTS.



TYP. PIPE TRENCHING BEDDING AND BACKFILL FOR WATERLINE

NOT TO SCALE

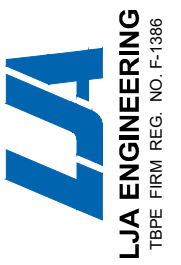
NOTE: (CONCRETE PAVEMENT ONLY)

CONTRACTOR HAS OPTION TO USE CEMENT STABILIZED SAND OR BACKFILL WITH SELECT BACKFILL MATERIAL

GENERAL NOTES FOR BACKFILL

TABLE 1 BEDDING AND INITIAL BACKFILL (BELOW PIPE TO 12" ABOVE PIPE)	TABLE 2 FINAL BACKFILL (GREATER THAN 12" ABOVE PIPE)																			
	UNPAVED AREAS	PAVED AREAS																		
<p>ALL BEDDING AND INITIAL BACKFILL SHALL CONSIST OF THE FOLLOWING OR REFER TO DESIGN ENGINEER REQUIREMENTS: GRANULAR BACKFILL CONSISTING OF EITHER NATURAL SAND OR SANDY GRAVEL, OR MATERIAL PRODUCED BY CRUSHING OF NATURAL STONE OR GRAVEL.</p> <p>WATER LINES:</p> <ol style="list-style-type: none"> EXCAVATIONS <20FT. DEEP AND ABOVE WATER TABLE, USE MATERIAL MEETING THE FOLLOWING CRITERIA. MEETING REQUIREMENTS OF ASTM D2487 FOR: <table border="0"> <tr><td>SP</td><td>GP</td></tr> <tr><td>SW</td><td>GW</td></tr> <tr><td>SP-SM</td><td>GP-GM</td></tr> <tr><td>SW-SM</td><td>GW-GM</td></tr> </table> <p>AND IN ADDITION: PASSING 1/2" SIEVE - 100% PASSING #4 SIEVE - 30% MINIMUM PLASTICITY INDEX (PI) - NP TO 10 MAX.</p> IN DEEP EXCAVATIONS (>20') OR BELOW WATER TABLE, USE CRUSHED STONE OR CRUSHED GRAVEL MEETING GRADATION OF: <ol style="list-style-type: none"> CONCRETE COARSE AGGREGATE; TxDOT ITEM 421; GRADE 2, 3, OR 4. 	SP	GP	SW	GW	SP-SM	GP-GM	SW-SM	GW-GM	<p>A. FOR 12" ABOVE PIPE TO BOTTOM OF TOPSOIL BACKFILL SHALL BE APPROVED SELECT MATERIAL FROM THE EXCAVATION; OR IMPORTED MATERIAL; ALL TO BE FREE OF ROCKS, DEBRIS, OR ANY CLUMPS GREATER THAN 2" IN DIAMETER; LOOSE LIFTS TO BE PLACED 10" MAX. COMPACT MATERIAL TO 95% STD. PROCTOR (D698). MOISTURE TO BE ADJUSTED TO ± 3% OF OPTIMUM.</p> <p>B. TOPSOIL TO BE PROVIDED EQUAL OR BETTER THAN EXISTING; AND MATCH EXISTING TOPSOIL DEPTH. COMPACT TO FIX CONFLICT TO EXISTING ADJACENT TOPSOIL. (CONSTRUCTION TO BE PERFORMED BY "DOUBLE DITCH" METHOD TOP SOIL SALVAGED TO BE PLACED ON TOP)</p>	<p>A. FOR 12" ABOVE PIPE TO 3' BELOW BOTTOM OF ROAD BASE: BACKFILL SHALL BE SELECT MATERIAL FROM EXCAVATION OR TO BE IMPORTED MATERIAL IN EITHER CASE, ALL MATERIAL SHALL MEET THE FOLLOWING: LL<35 PI 8-20 NO CLUMPS > 2" DIA. MOISTURE 0 TO +3% COMPACT 95% D698 STD PROCTOR</p> <p>LOOSE LIFTS OF 10" MAX OR IF SELECT MATERIAL FROM EXCAVATION DOES NOT MEET REQUIREMENTS, THEN USE CEMENT STABILIZED SAND SEE TABLE 2-ITEM B BELOW (OR PER DESIGN ENGINEER)</p> <p>B. FOR 3' BELOW BOTTOM OF ROAD BASE TO BOTTOM OF ROAD BASE: BACKFILL SHALL BE CEMENT STABILIZED SAND (2 SK/C.Y.) AND SHALL MEET THE FOLLOWING REQUIREMENTS: SAND GRADATION: % PASSING</p> <table border="0"> <tr><td>#4</td><td>55-100</td></tr> <tr><td>#10</td><td>40-100</td></tr> <tr><td>#40</td><td>25-100</td></tr> <tr><td>#200</td><td>10-20</td></tr> <tr><td>PI</td><td>NP-10</td></tr> </table> <p>(OR AS PER DESIGN ENGINEER)</p> <p>COMPACT TO 95% OF D698. MOISTURE TO BE ADJUSTED TO (+/-2%) OF OPTIMUM.</p>	#4	55-100	#10	40-100	#40	25-100	#200	10-20	PI	NP-10
SP	GP																			
SW	GW																			
SP-SM	GP-GM																			
SW-SM	GW-GM																			
#4	55-100																			
#10	40-100																			
#40	25-100																			
#200	10-20																			
PI	NP-10																			

PROJECT No.: C275-21181



SEA ISLAND CIRCLE
 BEACH ACCESS AMENITY IMPROVEMENTS
 2300 GULF BOULEVARD
 SOUTH PADRE ISLAND, TEXAS 78597

WATER STANDARD DETAILS

SCALE: AS NOTED
 DRAWN BY: MF
 APPROVED BY: YS
 DATE:
 JOB NO. C275-21181

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SERVICE LINE MATERIALS

SERVICE CLAMPS
FOR 3/4", 1", 1 1/2" I.P. THREAD TAPS FOR 6" MAINS; 2" I.P. THREAD CLAMP TAP CONNECTION ALLOWED FOR 8" AND LARGER MAINS.

CORPORATION STOPS
3/4", 1", 1 1/2", AND 2" REQUIRED WITH I.P. THREAD INLET BY COPPER COMPRESSION OUTLET WITH CLAMP - CORPORATION STOP REQUIRED AT ALL SERVICE TAPS.

ONE PIECE SDR9 POLYETHYLENE TUBING OR TYPE K COPPER
REQUIRED FOR ALL SERVICE LINES BETWEEN MAIN TO METER - SIZES REQUIRED 3/4", 1", 1 1/2", AND 2" (NO SPLICES ALLOWED)

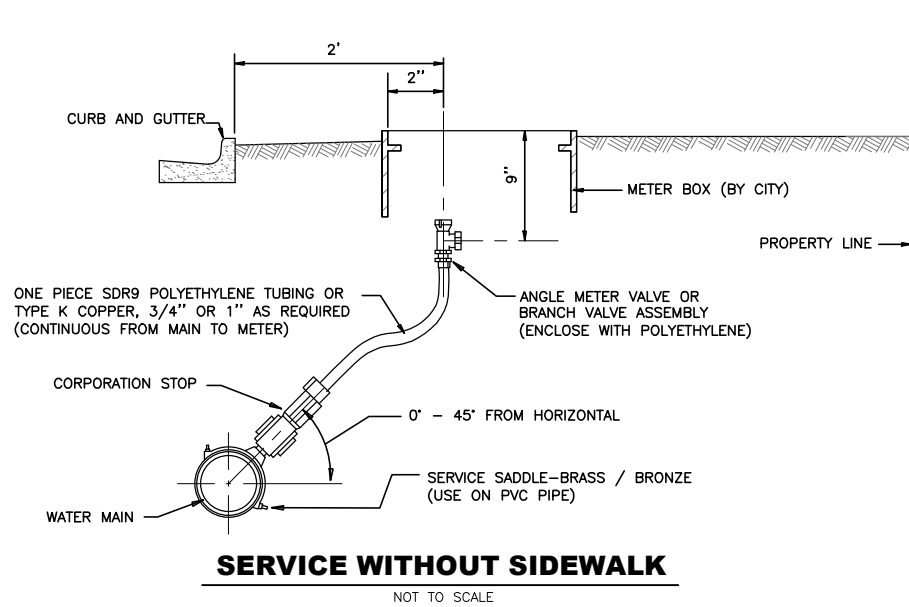
ANGLE METER STOP
REQUIRED AT ALL METERS - SIZES 3/4" & 1" - INSTALL 3/4" UNLESS DIRECTED OTHERWISE - COPPER COMPRESSION W/ CLAMP INLET BY METER COUPLING NUT OUTLET.

METER (BY OTHERS)
METER ADAPTER AND CHECK VALVE (BY OTHERS)
REQUIRED AT ALL METERS - SIZES 3/4" & 1" - INSTALL 3/4" UNLESS DIRECTED OTHERWISE - METER NUT INLET BY 3/4" MALE I.P. OUTLET.

ADAPTER COUPLING (BY OTHERS)
REQUIRED AT ALL METERS - 3/4" & 1" - FEMALE I.P. BY PVC COMPRESSION.

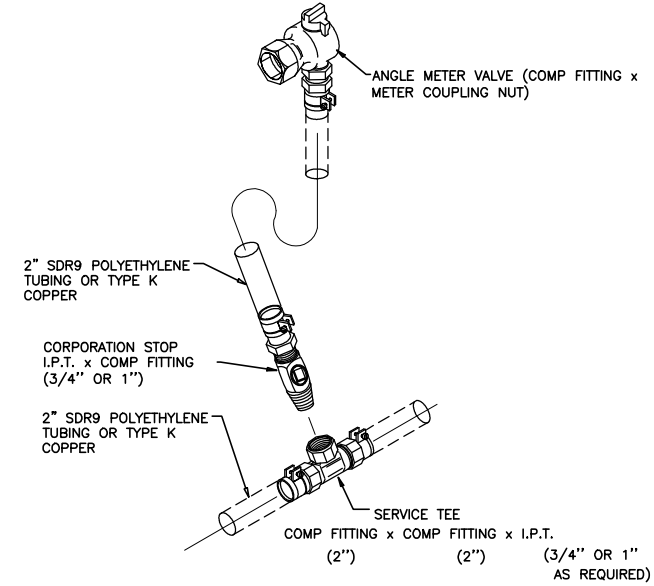
METER BOX
CAST IRON W/ HOT TAR DIP SHALL BE PROVIDED BY THE CONTRACTOR FOR 3/4" METER SETTINGS, IF EXISTING STRUCTURE DOES NOT HAVE ONE. BOXES FOR LARGER (1" & UP) METER SETTINGS SHALL BE FURNISHED BY THE CITY.

BRASS FITTINGS
BRASS FITTINGS SHALL COMPLY WITH A.W.W.A. C800-66 AND BE WRAPPED IN POLYETHYLENE.



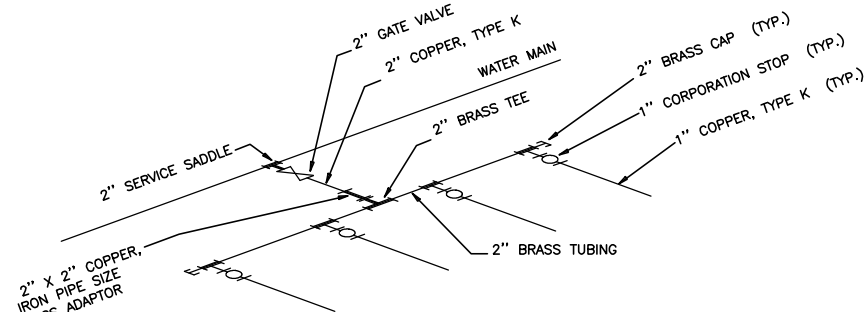
SERVICE WITHOUT SIDEWALK

NOT TO SCALE



TYPICAL CONNECTION DETAIL

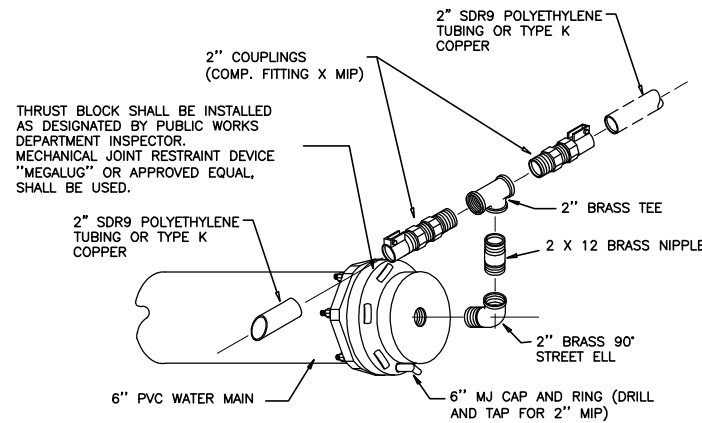
NOT TO SCALE



NOTE:
MANIFOLDS LARGER THAN SIX CONNECTIONS WILL REQUIRE APPROVAL FROM THE CITY OF SOUTH PADRE ISLAND WATER DEPARTMENT FOR ANOTHER WATER TAP AND SERVICE.

THREE TO SIX WATER CONNECTIONS

NOT TO SCALE

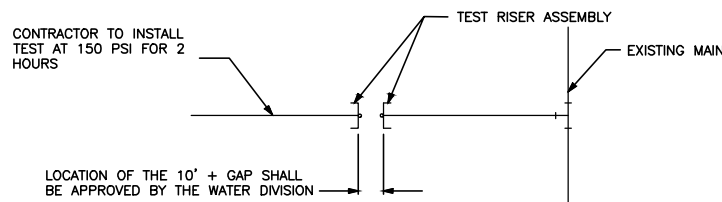


THRUST BLOCK SHALL BE INSTALLED AS DESIGNATED BY PUBLIC WORKS DEPARTMENT INSPECTOR. MECHANICAL JOINT RESTRAINT DEVICE "MEGALUG" OR APPROVED EQUAL, SHALL BE USED.

NOTE:
NO MORE THAN 3 LOTS SHALL BE SERVED PER LEG.

TYPICAL CONNECTION DETAIL

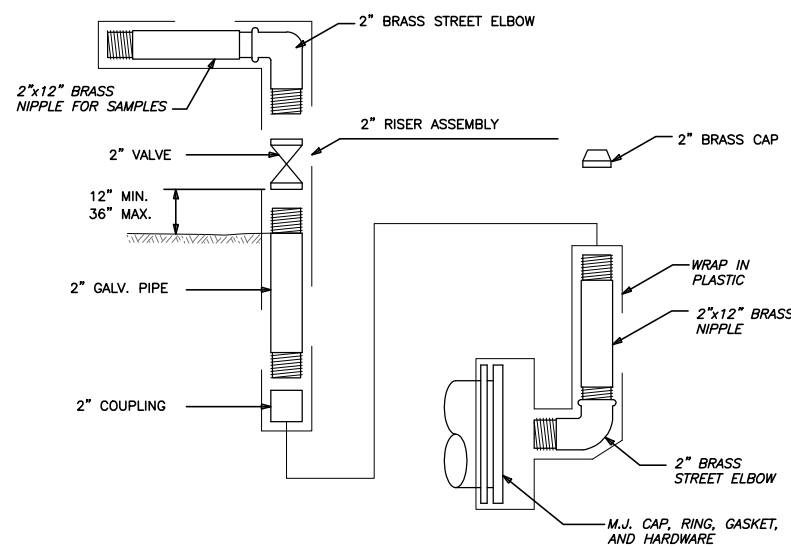
NOT TO SCALE



1. HYDROSTATIC TEST: WATER FOR FILLING THE NEW WATER LINE AND PERFORMING TESTS WILL BE FURNISHED TO THE CONTRACTOR BY THE CITY OF SOUTH PADRE ISLAND THROUGH A STANDARD WATER CONSTRUCTION METER CONNECTION. STANDARD WATER CONSTRUCTION METER AND GAUGE WILL BE SUPPLIED BY THE CITY AFTER THE CONTRACTOR HAS PAID ALL APPLICABLE FEES FOR THE WATER CONSTRUCTION METER. THE TEST PUMP WITH APPROPRIATE CONNECTION POINTS AS APPROVED BY THE WATER SUPERINTENDENT FOR THE INSTALLATION OF METER AND GAUGE SHALL BE FURNISHED BY THE CONTRACTOR. THE METER SHALL BE DIRECTLY CONNECTED TO THE MAIN OR PIPE BEING TESTED BY THE USE OF COPPER TUBING OR AN APPROVED REINFORCED HOSE. THE METER SHALL BE PROTECTED AGAINST EXTREME PRESSURES BY THE USE OF A ONE (1") INCH SAFETY RELIEF VALVE SET AT THE TEST PRESSURE PLUS TEN POUNDS PER SQUARE INCH AND FURNISHED BY THE CITY (48 HOURS NOTIFICATION).
2. BACTERIOLOGICAL TEST: CONTRACTOR SHALL FURNISH AND INSTALL TEST RISER ASSEMBLY. AFTER BACTERIOLOGICAL SAMPLE PASSES TEST, CONTRACTOR SHALL REMOVE TEST RISER ASSEMBLIES AND TIE NEW SYSTEM TO EXISTING UNDER THE SUPERVISION OF THE PUBLIC WORKS DEPARTMENT INSPECTOR. CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR AND EQUIPMENT THAT IS REQUIRED TO MAKE TIE / CONNECTION. CONTRACTOR WILL SCHEDULE & COORDINATE WITH PUBLIC WORKS DEPARTMENT INSPECTOR ON DATE & TIME OF TIE-IN. (24 HOURS NOTIFICATION)
3. CONTRACTOR SHALL FURNISH AND INSTALL TAPPING SLEEVE OR SADDLE AND TAPPING GATE VALVE AND VALVE BOX COMPLETE. CITY TO MAKE TAP (72 HOURS NOTIFICATION)

**DETAIL "A"
TEST RISER ASSEMBLY CONNECTION**

NOT TO SCALE

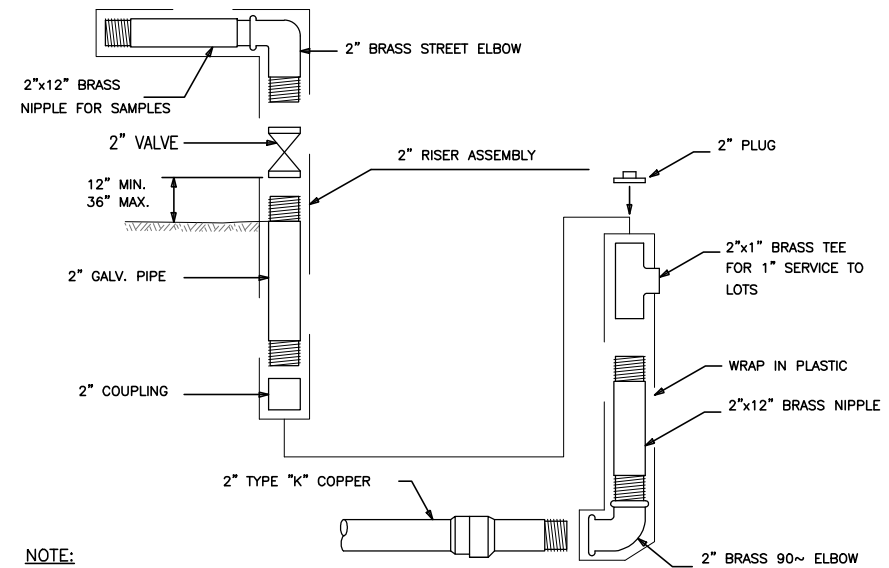


NOTE:
AFTER BACTERIOLOGICAL SAMPLE PASSES TEST, CONTRACTOR WILL REMOVE RISER ASSEMBLY AND INSTALL 2" BRASS CAP

**DETAIL "B"
TEST RISER ASSEMBLY**

NOT TO SCALE

FURNISHED AND INSTALLED BY CONTRACTOR



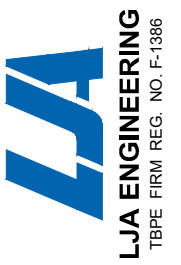
NOTE:
CONTRACTOR WILL REMOVE RISER ASSEMBLY AND INSTALL 2" BRASS PLUG ON 2"x1" BRASS TEE AFTER SAMPLE PASSES

**DETAIL "C"
TEST RISER ASSEMBLY**

NOT TO SCALE

FURNISHED AND INSTALLED BY CONTRACTOR

PROJECT No.:
C275-21181



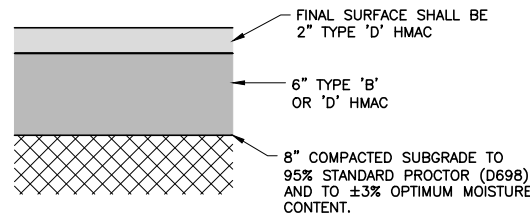
SEA ISLAND CIRCLE
BEACH ACCESS AMENITY IMPROVEMENTS
2300 GULF BOULEVARD
SOUTH PADRE ISLAND, TEXAS 78597

WATER STANDARD DETAILS

SCALE: AS NOTED
DRAWN BY: MF
APPROVED BY: YS
DATE:
JOB NO. C275-21181

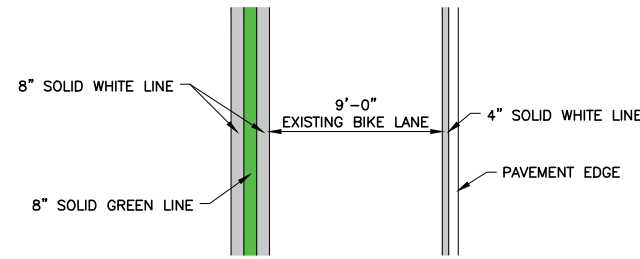
C13

R:\CLIENTS\city of south padre - 275\21181 - sea island circle amenities\CAD\Water Std Details.dwg mquerra Mon Jan 09 2023 @ 16:07:46 gm



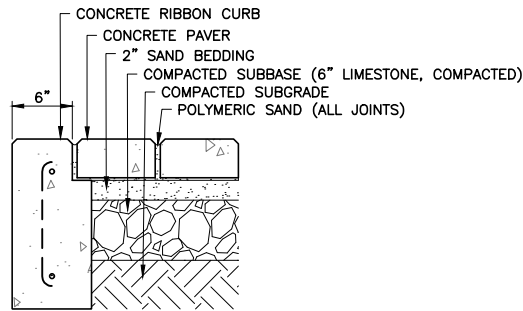
8" FULL DEPTH PAVEMENT REPAIR (FDPR)

NOT TO SCALE



BIKE LANE PAVEMENT MARKINGS

NOT TO SCALE



PAVER INSTALLATION DETAIL

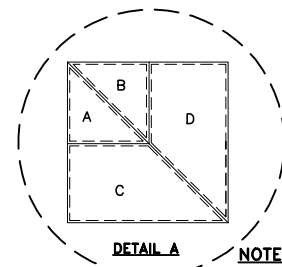
NOT TO SCALE

GENERAL SPECIFICATIONS INSTALLATION

- EXCAVATE UNSUITABLE, UNSTABLE OR UNCONSOLIDATED SUBGRADE MATERIAL AND COMPACT THE AREA WHICH HAS BEEN CLEARED. THEN BACKFILL AND LEVEL WITH DENSE GRADED AGGREGATE SUITABLE FOR SUBBASE MATERIAL (6" OF COMPACTED LESTONE)
- PLACE BEDDING COURSE OF WASHED CONCRETE SAND CONFORMING TO THE GRADING REQUIREMENTS OF ASTM C33 TO A UNIFORM DEPTH OF 1" TO 1 1/2" (25-38MM) SCREED TO THE GRADE AND PROFILE REQUIRED.
- INSTALL PAVERS WITH JOINTS APPROXIMATELY 1/8" (3MM). (PAVERS WITH SPACER RIBS AUTOMATICALLY PROVIDE MINIMUM JOINT WIDTH.)
- WHERE REQUIRED, CUT PAVERS WITH AN APPROVED CUTTER TO FIT ACCURATELY, NEATLY AND WITHOUT DAMAGED EDGES.
- TAMP PAVERS WITH A PLATE COMPACTOR, UNFORMILY LEVEL, TRUE TO GRADE AND FREE OF MOVEMENT.
- FILL JOINTS WITH POLYMERIC SAND BINDER (SANDLOCK OR APPROVED EQUAL.)

NOTES

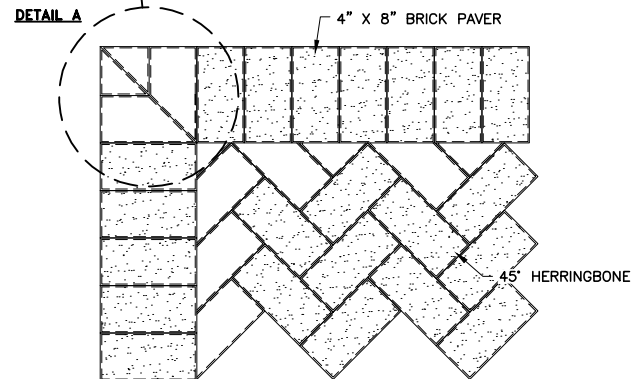
- INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- DO NOT SCALE DRAWINGS.
- CONFIRM COLOR AND SIZE WITH OWNER PRIOR TO INSTALLATION
- CONTRACTOR TO PROVIDE 6'x6' MOCKUP OF PAVING TO INCLUDE FIELD PATTERN, BORDER PATTERN AND COLORS.



DETAIL A

NOTES:

- DIMENSIONS SHOWN ARE FOR A 90° CORNER. ADJUST DIMENSIONS ACCORDINGLY FOR OTHER ANGLED CORNERS.
- ALL MITER CUTS TO BE EVEN AND CONSISTENT.

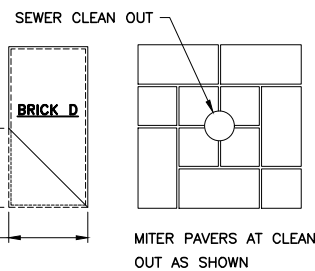


PAVER DETAIL - 90° MITER

NOT TO SCALE

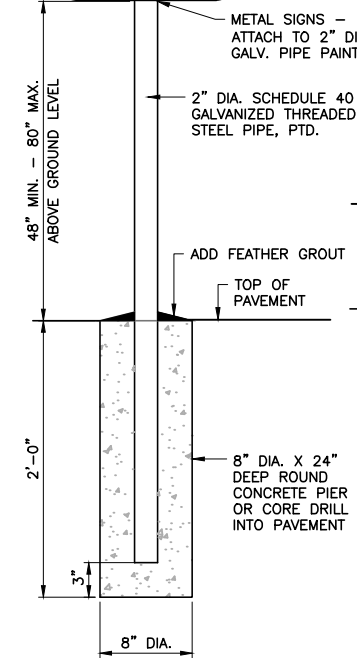
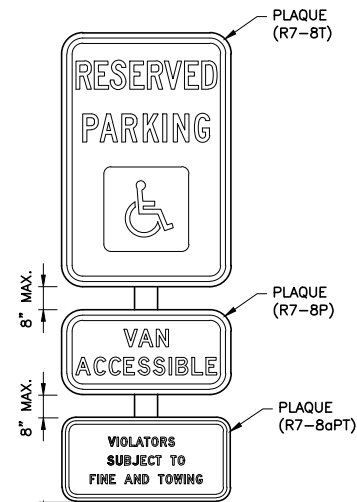
PAVING NOTES

- CONTRACTOR SHALL REVIEW AND COORDINATE WITH EXISTING CONDITIONS. LOCATE AND PROTECT ALL UNDERGROUND UTILITIES, DRAINS, ELECTRICAL, ETC.
- CONTRACTOR TO FOLLOW CIVIL ENGINEER'S GRADING/DRAINAGE PLANS. ENSURE PROPER DRAINAGE AWAY FROM ALL BUILDINGS TO DRAIN INLETS PER GRADING/DRAINAGE PLANS.
- CONTRACTOR SHALL STAKE OUT ALL PAVING AREAS FOR SSP APPROVAL PRIOR TO STARTING ANY PAVING WORK.
- CONTRACTOR SHALL STRIP/REMOVE EXISTING UNSUITABLE SOIL/SOD/GRASS IN AL PAVEMENT AREAS.
- CONTRACTOR SHALL SUPPLY/INSTALL SELECT FILL, SUB-BASE, MOISTURE CONDITION, AND COMPACT SUB GRADE TO 95% PROCTOR DENSITY (ASTM D698).
- CONTRACTOR SHALL SUPPLY/APPLY PRE-EMERGENT HERBICIDE TO SUB-BASE OF ALL PAVEMENT AREAS. USE 'RONSTAR' PRE-EMERGENT HERBICIDE OR APPROVED EQUAL.
- CONTRACTOR SHALL SUPPLY/INSTALL PAVERS AS INDICATED IN SCHEDULE
- CONTRACTOR SHALL CUT/MITRE ALL RADII AND CORNERS USING MASONRY SAW AS DETAILED.
- CONTRACTOR SHALL FILL/SWEEP AL JOINTS WITH MIXTURE OF JOINT SAND AND 'SANDLOCK' JOINT STABILIZER. MI. 3-4 LBS. OF 'SANDLOCK' PER 100 LBS OF JOINT SAND. SWEEP ADDITIONAL 'SANDLOCK' ONTO FINAL SURFACE AND INTO AL JOINTS THEN SATURATE WITH WATER TO ACTIVATE STABILIZER.
- CONTRACTOR SHALL NOTIFY SSP BEFORE INSTALLATION FOR INSPECTIONS/APPROVALS OF AL WORK.
- CONTRACTOR SHALL WARRANTY ALL MATERIALS AND LABOR FOR A PERIOD OF TWO YEARS. WARRANTY
- INCLUDED RE-SANDING IF REQUIRED, HERBICIDE TREATMENT AND REPAIR OF ALL SUBGRADE FAILURES IF REQUIRED.



SEWER CLEAN OUT

MITER PAVERS AT CLEAN OUT AS SHOWN



PARKING NOTES:

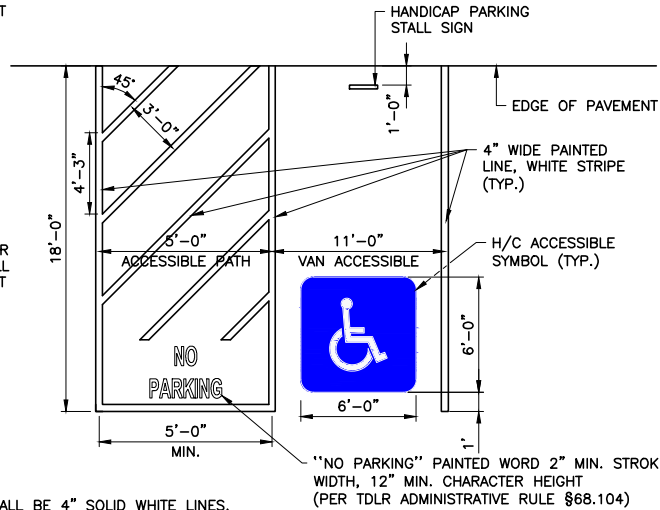
- ALL PARKING SPACE LIMIT LINES SHALL BE 4" SOLID WHITE LINES.
- AISLE MARKINGS SHOWN ARE EXAMPLES ONLY. OTHER METHODS TO INDICATE A NO PARKING AREA ARE ACCEPTABLE. AISLE MARKINGS SHALL BE WHITE.
- DIMENSIONS OF LIMIT LINES, AISLE MARKINGS AND SYMBOLS (WITH OR WITHOUT BACKGROUND) MAY VARY + 10%.
- PAVEMENT MARKING SYMBOLS (WITH BACKGROUND):
 - ARE REQUIRED UNLESS STATED ELSEWHERE IN THE PLANS.
 - SHOULD BE PLACED TOWARD THE FAR END OF THE PARKING SPACES SO AS TO BE VISIBLE TO MOTORISTS IN THE TRAVEL LANE.
 - MAY BE PAINTED OR PREFABRICATED MATERIAL AND SHALL BE 30"x30" MINIMUM.
- WITH APPROVAL OF THE ENGINEER, PREFABRICATED PAVEMENT MARKING SYMBOLS WITH BACKGROUND OF OTHER DIMENSIONS EXCEEDING THE 30"x30" MINIMUM MAY BE USED. ALTERNATIVE DESIGNS SHALL INCLUDE A PROPORTION SIZED SYMBOL OF ACCESSIBILITY AND SHALL CONFORM TO THE ILLUSTRATED COLORS FOR BACKGROUND, SYMBOL AND BORDER.
 - AN R7-8 SIGN:
 - SHALL BE REQUIRED FOR EACH ACCESSIBLE PARKING SPACE.
 - SHALL NOT BE PLACED BETWEEN TWO ACCESSIBLE PARKING SPACES.
 - SHALL NOT BE PLACED IN A LOCATION THAT RESTRICTS MOVEMENT OF WHEELCHAIRS WITHIN THE ADJACENT SIDEWALK, AND
 - SHALL HAVE MINIMUM MOUNTING HEIGHT OF 7 FEET. IF MOUNTED TO WALL OR LOCATED SO AS NOT TO BE NEAR PEDESTRIAN TRAFFIC MINIMUM MOUNTING HEIGHT MAY BE 7 FEET.
- POST MOUNTED SIGNS SHOULD BE PLACED APPROXIMATELY 1 FOOT (OR GREATER) BEHIND THE CURB TO PREVENT DAMAGE FROM VEHICLE OVERHANG.
- SIGNS MAY BE MOUNTED DIRECTLY TO AN ADJACENT WALL OF A BUILDING WHEN POST MOUNTING IS IMPRACTICAL.

STRIPING NOTES:

- PAINT FOR STRIPING PER SPECIFICATION SECTION 025807, PAVEMENT MARKINGS (S-45) PAINT AND THERMOPLASTIC.
- PAINT SHALL BE APPLIED UNIFORMLY BY SUITABLE EQUIPMENT AT A RATE OF NOT LESS THAN 105 NOR MORE THAN 115 SQUARE FEET PER GALLON.
- AFTER APPLICATION, ALL MARKINGS SHALL BE PROTECTED WHILE DRYING. THE FRESH MARKINGS SHALL BE PROTECTED FROM DAMAGE OF ANY KIND.

HANDICAPPED PARKING SIGN

NOT TO SCALE



"NO PARKING" PAINTED WORD 2" MIN. STROKE WIDTH, 12" MIN. CHARACTER HEIGHT (PER TDLR ADMINISTRATIVE RULE §68.104)

TYPICAL ACCESS PARKING

NOT TO SCALE

PROJECT No.: C275-21181



SEA ISLAND CIRCLE
BEACH ACCESS AMENITY IMPROVEMENTS
2300 GULF BOULEVARD
SOUTH PADRE ISLAND, TEXAS 78597

MISCELLANEOUS DETAILS

SCALE: AS NOTED

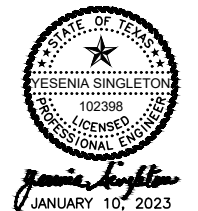
DRAWN BY: MF

APPROVED BY: YS

DATE:

JOB NO. C275-21181

C14



SEA ISLAND CIRCLE
 BEACH ACCESS AMENITY IMPROVEMENTS
 2300 GULF BOULEVARD
 SOUTH PADRE ISLAND, TEXAS 78597

TX DOT TCP - TCP(1-2)-18 ONE LANE TWO WAY TRAFFIC CONTROL

LEGEND

	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board		Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed *	Formula	Minimum Desirable Taper Lengths **			Suggested Maximum Spacing of Channelizing Devices		Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "B"	Stopping Sight Distance
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent			
30	L = WS ² / 60	150'	165'	180'	30'	60'	120'	90'	200'
35		205'	225'	245'	35'	70'	160'	120'	250'
40		265'	295'	320'	40'	80'	240'	155'	305'
45	L = WS	450'	495'	540'	45'	90'	320'	195'	360'
50		500'	550'	600'	50'	100'	400'	240'	425'
55		550'	605'	660'	55'	110'	500'	295'	495'
60		600'	660'	720'	60'	120'	600'	350'	570'
65		650'	715'	780'	65'	130'	700'	410'	645'
70	700'	770'	840'	70'	140'	800'	475'	730'	
75	750'	825'	900'	75'	150'	900'	540'	820'	

* Conventional Roads Only
 ** Taper lengths have been rounded off.
 L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

TYPICAL USAGE

	MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
		✓	✓		

GENERAL NOTES

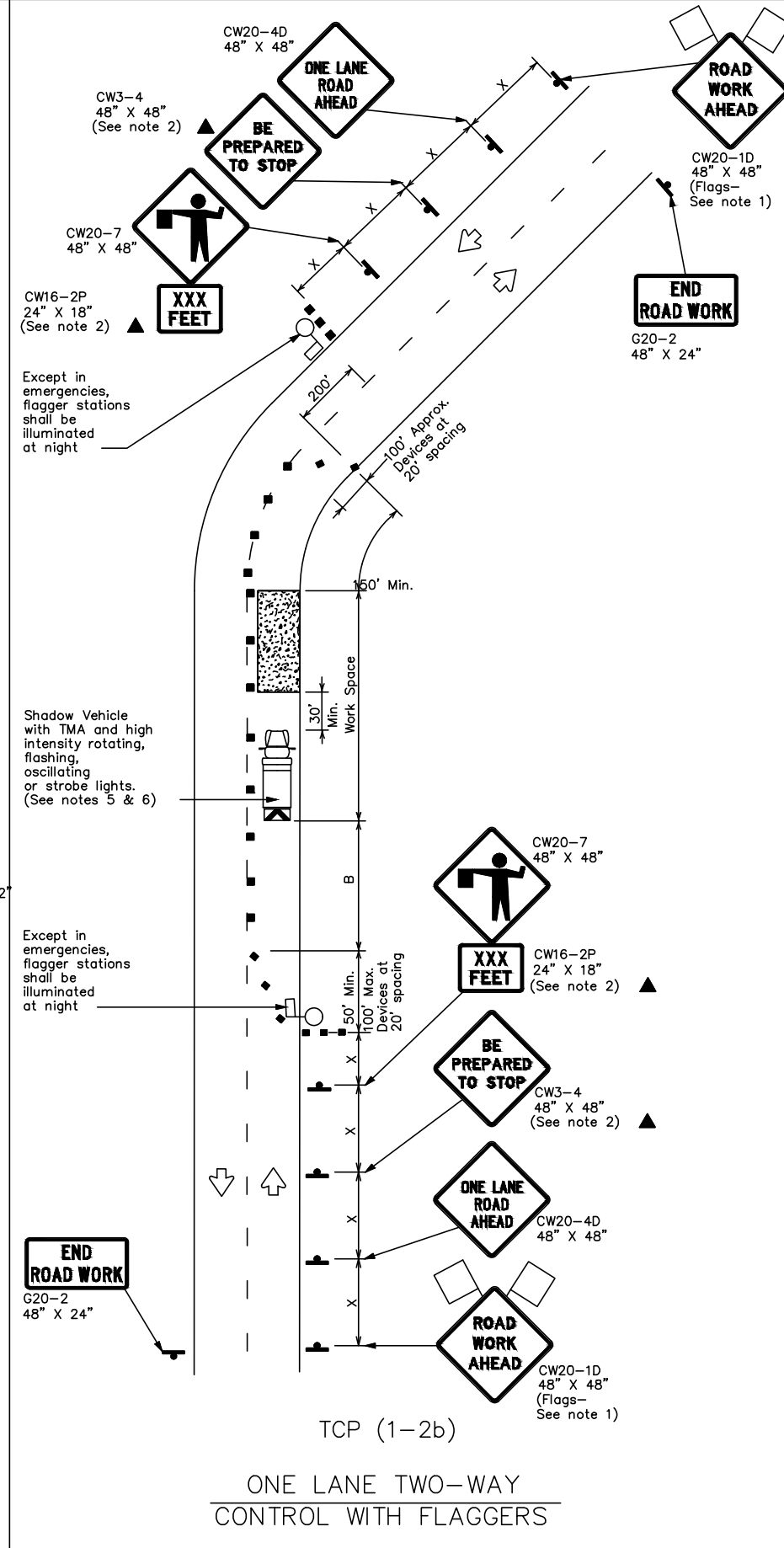
- Flags attached to signs where shown are REQUIRED.
 - All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
 - The CW3-4 "BE PREPARED TO STOP" sign may be installed after the CW20-4D "ONE LANE ROAD AHEAD" sign, but proper sign spacing shall be maintained.
 - Sign spacing may be increased or an additional CW20-1D "ROAD WORK AHEAD" sign may be used if advance warning ahead of the flagger or R1-2 "YIELD" sign is less than 1500 feet.
 - A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
 - Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect wider work spaces.
- TCP (1-2a)**
- R1-2 "YIELD" sign traffic control may be used on projects with approaches that have adequate sight distance. For projects in urban areas, work spaces should be no longer than one half city block. In rural areas on roadways with less than 2000 ADT, work spaces should be no longer than 400 feet.
 - R1-2 "YIELD" sign with R1-2aP "TO ONCOMING TRAFFIC" plaque shall be placed on a support at a 7 foot minimum mounting height.
- TCP (1-2b)**
- Flagger should use two-way radios or other methods of communication to control traffic.
 - Length of work space should be based on the ability of flaggers to communicate.
 - If the work space is located near a horizontal or vertical curve, the buffer distances should be increased in order to maintain adequate stopping sight distance to the flagger and a queue of stopped vehicles (see table above).
 - Channelizing devices on the center-line may be omitted when a pilot car is leading traffic and approved by the Engineer.
 - Flagger should use 24" STOP/SLOW paddles to control traffic. Flags should be limited to emergency situations.



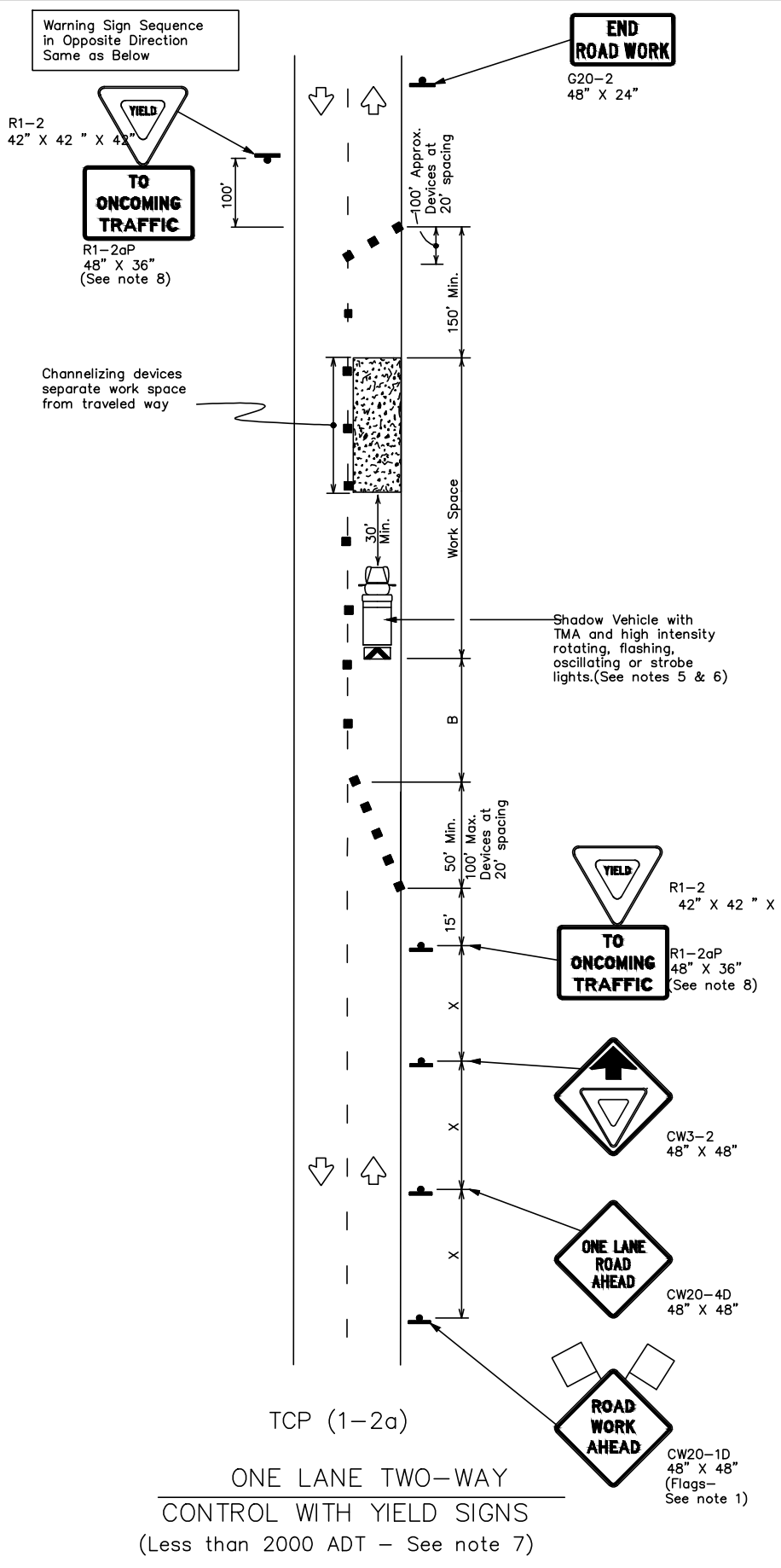
**TRAFFIC CONTROL PLAN
 ONE-LANE TWO-WAY
 TRAFFIC CONTROL**

TCP(1-2)-18

FILE: tcp1-2-18.dgn	DN:	CK:	DN:	CK:
© TXDOT December 1985	CONT	SECT	JOB	HIGHWAY
REVISIONS				
4-90	4-98			
2-94	2-12			
1-97	2-18			
	DIST	COUNTY	SHEET NO.	

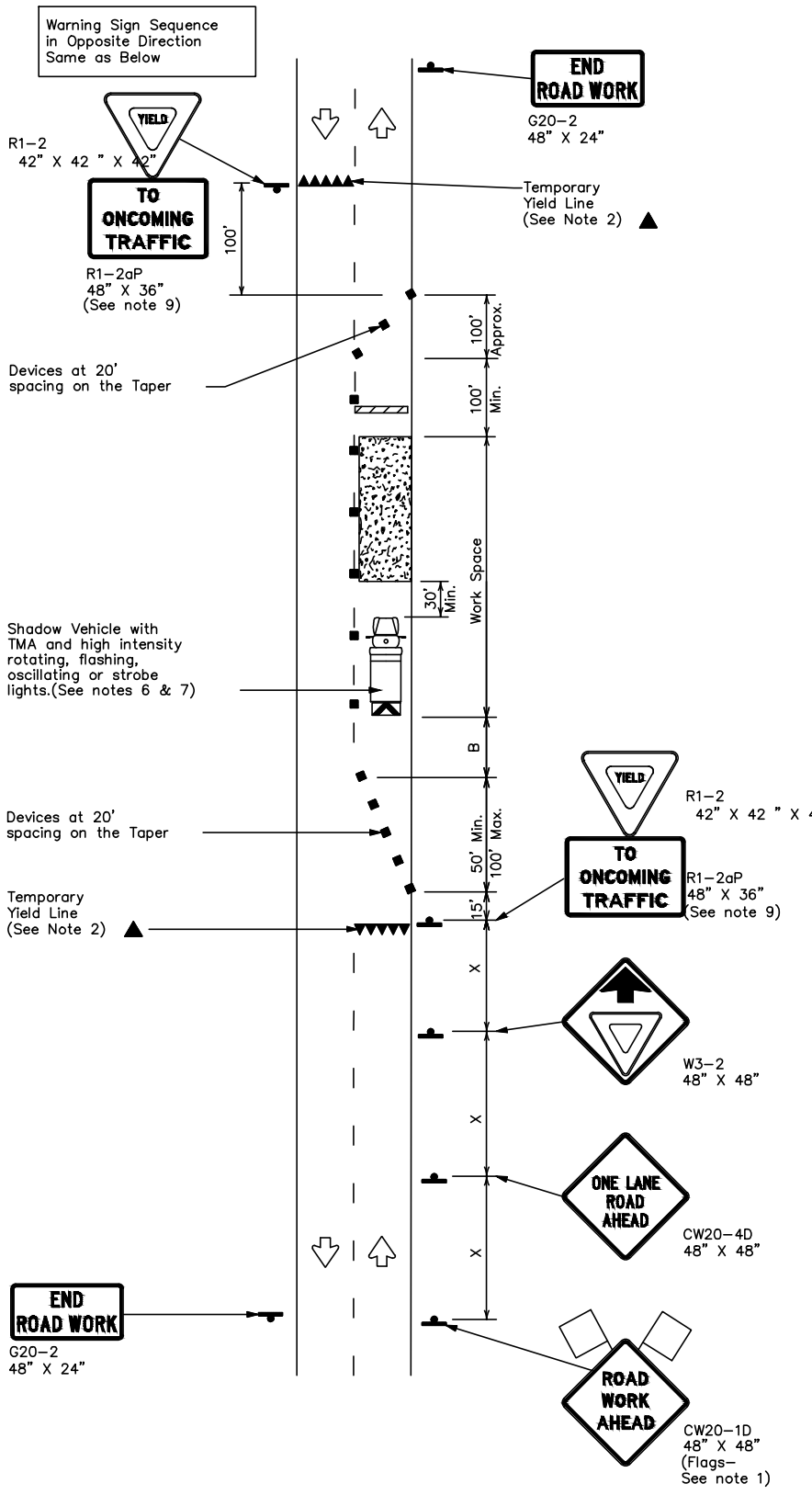


TCP (1-2b)
 ONE LANE TWO-WAY
 CONTROL WITH FLAGGERS

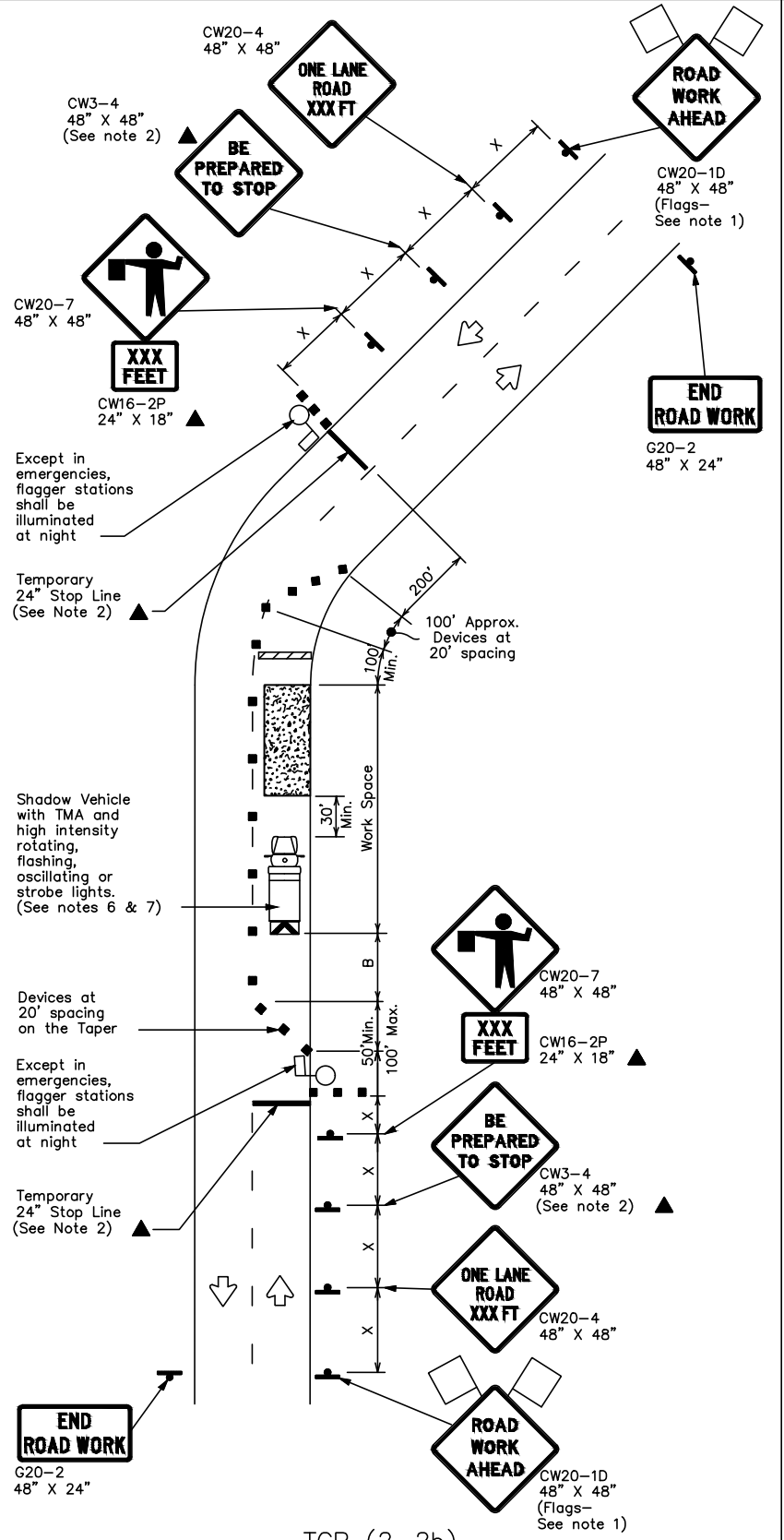


TCP (1-2a)
 ONE LANE TWO-WAY
 CONTROL WITH YIELD SIGNS
 (Less than 2000 ADT - See note 7)

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TCP (2-2a)
2-LANE ROADWAY WITHOUT PAVED SHOULDERS
ONE LANE TWO-WAY
CONTROL WITH YIELD SIGNS
(Less than 2000 ADT - See Note 9)



TCP (2-2b)
2-LANE ROADWAY WITHOUT PAVED SHOULDERS
ONE LANE TWO-WAY
CONTROL WITH FLAGGERS

LEGEND

	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board		Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed *	Formula	Minimum Desirable Taper Lengths **			Suggested Maximum Spacing of Channelizing Devices		Minimum Sign Spacing "x" Distance	Suggested Longitudinal Buffer Space "B"	Stopping Sight Distance
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent			
30	$L = \frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'	200'
35		205'	225'	245'	35'	70'	160'	120'	250'
40		265'	295'	320'	40'	80'	240'	155'	305'
45	L=WS	450'	495'	540'	45'	90'	320'	195'	360'
50		500'	550'	600'	50'	100'	400'	240'	425'
55		550'	605'	660'	55'	110'	500'	295'	495'
60		600'	660'	720'	60'	120'	600'	350'	570'
65		650'	715'	780'	65'	130'	700'	410'	645'
70	700'	770'	840'	70'	140'	800'	475'	730'	
75	750'	825'	900'	75'	150'	900'	540'	820'	

* Conventional Roads Only
** Taper lengths have been rounded off.
L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

TYPICAL USAGE

MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
	✓	✓	✓	

GENERAL NOTES

- Flags attached to signs where shown, are REQUIRED.
- All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
- The CW3-4 "BE PREPARED TO STOP" sign may be installed after the CW20-4 "ONE LANE ROAD XXX FT" sign, but proper sign spacing shall be maintained.
- Flaggers should use two-way radios or other methods of communication to control traffic.
- Length of work space should be based on the ability of flaggers to communicate.
- A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
- Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect a wider work space.

TCP (2-2a)

- The R1-2 "YIELD" sign traffic control may be used on projects with approaches that have adequate sight distance. For projects in urban areas, work space should be no longer than one half city block. In rural areas, roadways with less than 2000 ADT, work space should be no longer than 400 feet.
- The R1-2aP "YIELD TO ONCOMING TRAFFIC" sign shall be placed on a support at a 7 foot minimum mounting height.

TCP (2-2b)

- Channelizing devices on the center line may be omitted when a pilot car is leading traffic and approved by the Engineer.
- If the work space is located near a horizontal or vertical curve, the buffer distances should be increased in order to maintain stopping sight distance to the flagger and a queue of stopped vehicles. (See table above).
- Flaggers should use 24" STOP/SLOW paddles to control traffic. Flags should be limited to emergency situations.



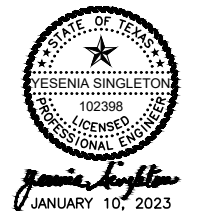
Traffic Operations Division Standard

TRAFFIC CONTROL PLAN
ONE-LANE TWO-WAY
TRAFFIC CONTROL

TCP(2-2)-18

FILE: tcp2-2-18.dgn	DN:	CK:	DW:	CK:
© TXDOT December 1985	CONT	SECT	JOB	HIGHWAY
REVISIONS				
8-95 3-03				
1-97 2-12				
4-98 2-18				
	DIST	COUNTY	SHEET NO.	

PROJECT No.:
C275-21181



SEA ISLAND CIRCLE
BEACH ACCESS AMENITY IMPROVEMENTS
2300 GULF BOULEVARD
SOUTH PADRE ISLAND, TEXAS 78597

TX DOT TCP - TCP(2-2)-18 ONE LANE TWO WAY TRAFFIC CONTROL

SCALE: AS NOTED

DRAWN BY: MF

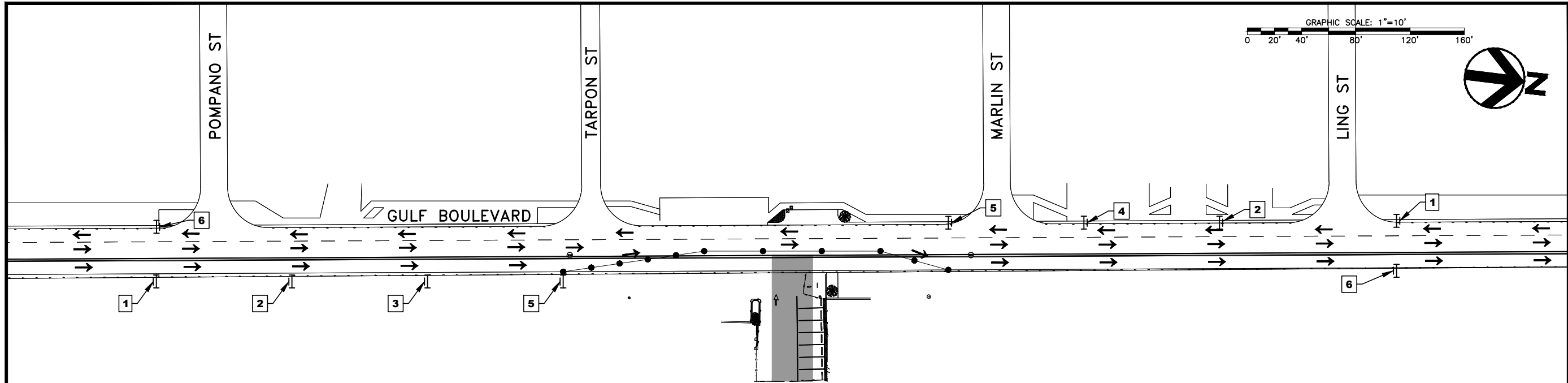
APPROVED BY: YS

DATE:

JOB NO. C275-21181

C16

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SIGN LEGEND

- 1 ROAD WORK AHEAD
- 2 BE PREPARED TO STOP / SHOULDER WORK
- 3 RIGHT SHOULDER CLOSED
- 4 LEFT SHOULDER CLOSED
- 5 XXX FEET / SHARE THE ROAD
- 6 END ROAD WORK

LEGEND

- CONSTRUCTION AREA
- DENOTES - SKID MOUNTED SIGNS
- FLAGGER
- REFLECTORIZED PLASTIC DRUM
- TRAVEL DIRECTION

TABLE B

Posted Speed X	Formula	Minimum Desirable Taper Lengths X X'			Suggested Maximum Spacing of Device		Minimum Sign Spacing X' Distance
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	
25	L=WS/80	104'	115'	125'	25'	50'-65'	100'
30		150'	165'	180'	30'	60'-75'	120'
35		205'	225'	245'	35'	70'-90'	160'
40		265'	295'	320'	40'	80'-100'	240'
45	L=WS	450'	495'	540'	45'	90'-110'	320'
50		500'	550'	600'	50'	100'-125'	400'
55		550'	605'	660'	55'	110'-140'	1500'
60		600'	660'	720'	60'	120'-150'	X 600'
65		650'	715'	780'	65'	130'-165'	X 700'
70		700'	770'	840'	70'	140'-175'	X 800'

NOTE:
FOR ONE LANE TWO WAY ROADWAY USE TXDOT TYPICAL STANDARD TRAFFIC CONTROL PLAN SHEETS TCP(1-2)-18, TCP(2-2)-18, ON SHEETS C15-C16.

SPECIAL CONDITIONS:

THE FOLLOWING SPECIAL CONDITIONS OUTLINE THE MINIMUM REQUIREMENTS ASSOCIATED WITH THIS TRAFFIC CONTROL PLAN.

NOTE:

1. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM WITH CITY AND STATE SPECIFICATIONS IN ACCORDANCE WITH THE LATEST VERSION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND SUBSEQUENT REVISIONS.
2. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES DURING THE COURSE OF THE CONSTRUCTION PERIOD.
3. THE CONTRACTOR SHALL MAINTAIN ALL TRAFFIC SIGNS DURING THE CONSTRUCTION PERIOD.
4. ALL CONSTRUCTION WARNING SIGNS MAY BE MOUNTED ON PORTABLE DEVICES.
5. SHOULD ANY TRAFFIC SIGN, SIGN POST OR ITS FOUNDATION BE DAMAGED, CONTRACTOR SHALL REPORT SUCH INFORMATION IMMEDIATELY TO THE ATTENTION OF THE CITY'S STREET DEPARTMENT AT. AFTER 5 PM WEEKDAYS AND ON WEEKENDS, ALL EMERGENCY SITUATIONS SHOULD BE REPORTED TO THE POLICE DEPARTMENT AT.
6. THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL RESIDENT AND BUSINESS DRIVEWAYS DURING THE CONSTRUCTION PERIOD.
7. THE CONTRACTOR SHALL PROVIDE A CERTIFIED FLAGGER DURING THE COURSE OF THE CONSTRUCTION PERIOD. CERTIFIED FLAGGER WILL NOT BE PAID DIRECTLY BUT TO BE CONSIDERED SUBSIDIARY TO THE VARIOUS BID ITEMS. CONTRACTOR SHALL NOT BEGIN ANY CONSTRUCTION ACTIVITIES UNLESS THERE IS ENOUGH PERSONNEL TO ENSURE TCP IS FOLLOWED AS WELL AS CONSTRUCTION ACTIVITY.
8. CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING BICYCLE TRAFFIC AROUND ALL WORK AREAS THROUGHOUT THE PERIODS OF CONSTRUCTION WHEN EXISTING BICYCLE TRAILS, LANES, OR ROUTES ARE DESIGNATED. WHERE POSSIBLE, ADEQUATE SPACE FOR BICYCLISTS MUST BE PROVIDED, AND BICYCLE DETOUR SIGNS, INCLUDING "SHARE THE ROAD" SIGNS SHALL BE INSTALLED. WHEN ADEQUATE SPACE IS NOT AVAILABLE TO PROVIDE FOR BICYCLE ACCESS, THE BICYCLE FACILITIES SHALL BE ADEQUATELY DETOURED AROUND THE CONSTRUCTION SITE. THE DETOUR ROUTE SHALL MINIMIZE OUT-OF-DIRECTION TRAVEL DISTANCE, AND SHALL BE ADEQUATELY SIGNED AND DIRECTED. BICYCLE DETOUR SIGNS SHALL BE INCIDENTAL TO PAYMENT FOR TRAFFIC CONTROL.
9. THE WORK AREA SHALL NEVER PRESENT AN IMPASSABLE CONDITION. CONTRACTOR SHALL MAINTAIN AT LEAST ONE 9' MINIMUM TRAVEL LANE AT ALL TIMES DURING CONSTRUCTION.
10. ALL CONSTRUCTION ACTIVITIES WITHIN THE PROPOSED CONSTRUCTION AREA SHALL BE CONTAINED IN BETWEEN TWO FLAG PERSONS.
11. FLAG PERSONS SHALL BE EQUIPPED WITH TWO-WAY RADIOS FOR COMMUNICATION, AND WILL BE RESPONSIBLE FOR STOPPING AND RELEASING TRAFFIC AS NEEDED AROUND THE WORK AREA.
12. CONTRACTOR SHALL SCHEDULE CONSTRUCTION SO THAT BOTH TRAFFIC LANES WILL BE OPENED ALLOWING FOR TWO-WAY TRAFFIC AT THE END OF EACH DAY. PRIOR TO DIRECTING TRAFFIC ON A MILLED, UNEVEN OR ANY OTHER SURFACE LESS THAN A SMOOTH PAVEMENT, THE CONTRACTOR SHALL PLACE THE APPROPRIATE SIGNS TO WARN TRAFFIC OF THE UPCOMING CONDITIONS. THE FOLLOWING SIGNS MAY BE REQUIRED DEPENDING ON WHICHEVER SUITS THE CURRENT CONDITIONS: ECW8-8 "ROUGH ROAD", ECW8-7 "LOOSE GRAVEL", CW8-11 "UNEVEN LANES".
13. CONTRACTOR NEEDS TO INFORM PROPERTY OWNERS WHEN THEY PLAN TO START WORK AND LET THEM KNOW HOW LONG WORK WILL LAST DEPENDING ON WEATHER CONDITIONS.

NOTE:

1. USE 25 MPH SPEED LIMIT FOR MIN. SIGN SPACING
2. FOR CONSTRUCTION WARNING SIGN SIZE AND SPACING SEE TABLE 'B'

PROJECT No.:
C275-21181

Yesenia Singleton
102398
LICENSED PROFESSIONAL ENGINEER
JANUARY 10, 2023

LJA ENGINEERING
TBPE FIRM REG. NO. F-1386

South Padre Island

SEA ISLAND CIRCLE
BEACH ACCESS AMENITY IMPROVEMENTS
2300 GULF BOULEVARD
SOUTH PADRE ISLAND, TEXAS 78597

TRAFFIC CONTROL PLAN - TRAFFIC CONTROL PLAN

SCALE: AS NOTED

DRAWN BY: MF

APPROVED BY: YS

DATE:

JOB NO. C275-21181

C17

REVISION NO.	DATE	BY	DESCRIPTION

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1. STORMWATER POLLUTION PREVENTION—CLEAN WATER ACT SECTION 402

TPDES TXR 150000: STORMWATER DISCHARGE PERMIT OR CONSTRUCTION GENERAL PERMIT REQUIRED FOR PROJECTS WITH 1 OR MORE ACRES DISTURBED SOIL. PROJECTS WITH ANY DISTURBED SOIL MUST PROTECT FOR EROSION AND SEDIMENTATION IN ACCORDANCE WITH THE SPECIFICATIONS.
LIST MS4 OPERATOR(S) THAT MAY RECEIVE DISCHARGE FROM THIS PROJECT. THEY MAY NEED TO BE NOTIFIED PRIOR TO CONSTRUCTION ACTIVITIES.

1. THIS PROJECT IS LOCATED WITHIN THE BOUNDARIES OF THE CORPUS CHRISTI MUNICIPAL SEPARATE STORM SEWER SYSTEM, AND WOULD COMPLY WITH ALL APPLICABLE MS4 REQUIREMENTS.

NO ACTION REQUIRED REQUIRED ACTION

ACTION NO.

1. PREVENT STORMWATER POLLUTION BY CONTROLLING EROSION AND SEDIMENTATION IN ACCORDANCE WITH TPDES PERMIT TXR 150000.
2. COMPLY WITH THE SW3P AND REVISE WHEN NECESSARY TO CONTROL POLLUTION OR REQUIRED BY THE ENGINEER.
3. POST CONSTRUCTION SITE NOTICE (CSN) WITH SW3P INFORMATION ON OR NEAR THE SITE, ACCESSIBLE TO THE PUBLIC AND TCEQ, EPA OR OTHER INSPECTORS.
4. WHEN CONTRACTOR PROJECT SPECIFIC LOCATIONS (PSL's) INCREASE DISTURBED SOIL AREA TO 5 ACRES OR MORE, SUBMIT NOI TO TCEQ AND THE ENGINEER.

2. WORK IN OR NEAR STREAMS, WATER BODIES AND WETLANDS CLEAN WATER ACT SECTIONS 401 AND 404.

USACE PERMIT REQUIRED FOR FILLING, DREDGING, EXCAVATING OR OTHER WORK IN ANY WATER BODIES, RIVERS, CREEKS, STREAMS, WETLANDS OR WET AREAS.

THE CONTRACTOR MUST ADHERE TO ALL OF THE TERMS AND CONDITIONS ASSOCIATED WITH THE FOLLOWING PERMIT(S):

NO PERMIT REQUIRED

NATIONWIDE PERMIT 14 – PCN NOT REQUIRED (LESS THAN 1/10TH ACRE WATERS OR WETLANDS AFFECTED)

NATIONWIDE PERMIT 14 – PCN REQUIRED (1/10 TO <1/2 ACRE, 1/3 IN TIDAL WATERS)

INDIVIDUAL 404 PERMIT REQUIRED

OTHER NATIONWIDE PERMIT REQUIRED: NWP# _____

REQUIRED ACTIONS: LIST WATERS OF THE US PERMIT APPLIES TO, LOCATION IN PROJECT AND CHECK BEST MANAGEMENT PRACTICES PLANNED TO CONTROL EROSION, SEDIMENTATION AND POST-PROJECT TSS.

1.
2.
3.
4.

THE ELEVATION OF THE ORDINARY HIGH WATER MARKS OF ANY AREAS REQUIRING WORK TO BE PERFORMED IN THE WATERS OF THE US REQUIRING THE USE OF A NATIONWIDE PERMIT CAN BE FOUND ON THE BRIDGE LAYOUTS.

BEST MANAGEMENT PRACTICES:

EROSION	SEDIMENTATION	POST-CONSTRUCTION TSS
<input checked="" type="checkbox"/> TEMPORARY VEGETATION	<input checked="" type="checkbox"/> SILT FENCE	<input type="checkbox"/> VEGETATIVE FILTER STRIPS
<input type="checkbox"/> BLANKETS/MATTING	<input type="checkbox"/> ROCK BERM	<input type="checkbox"/> RETENTION/IRRIGATION SYSTEMS
<input checked="" type="checkbox"/> MULCH	<input type="checkbox"/> TRIANGULAR FILTER DIKE	<input type="checkbox"/> EXTENDED DETENTION BASIN
<input type="checkbox"/> SODDING	<input type="checkbox"/> SAND BAG BERM	<input type="checkbox"/> CONSTRUCTED WETLANDS
<input type="checkbox"/> INTERCEPTOR SWALE	<input type="checkbox"/> STRAW BALE DIKE	<input type="checkbox"/> WET BASIN
<input type="checkbox"/> DIVERSION DIKE	<input type="checkbox"/> BUSH BERMS	<input type="checkbox"/> EROSION CONTROL COMPOST
<input type="checkbox"/> EROSION CONTROL COMPOST	<input type="checkbox"/> EROSION CONTROL COMPOST	<input type="checkbox"/> MULCH FILTER BERM & SOCKS
<input type="checkbox"/> MULCH FILTER BERM & SOCKS	<input type="checkbox"/> MULCH FILTER BERM & SOCKS	<input type="checkbox"/> COMPOST FILTER BERM & SOCKS
<input type="checkbox"/> COMPOST FILTER BERM & SOCKS	<input type="checkbox"/> COMPOST FILTER BERM & SOCKS	<input type="checkbox"/> VEGETATION LINED DITCHES
	<input type="checkbox"/> STONE OUTLET SEDIMENT TRAPS	<input type="checkbox"/> SAND FILTER SYSTEMS
	<input type="checkbox"/> SEDIMENT BASINS	

3. CULTURAL RESOURCES

REFER TO TxDOT STANDARD SPECIFICATIONS IN THE EVENT HISTORICAL ISSUES OR ARCHEOLOGICAL ARTIFACTS ARE FOUND DURING CONSTRUCTION. UPON DISCOVERY OF ARCHEOLOGICAL ARTIFACTS (BONES, BURNT ROCK, FLINT, POTTERY, ETC.) CEASE WORK IN THE IMMEDIATE AREA AND CONTACT THE ENGINEER IMMEDIATELY.

NO ACTION REQUIRED REQUIRED ACTION

ACTION NO.

1.
2.
3.
4.

4. VEGETATION RESOURCES

PRESERVE NATIVE VEGETATION TO THE EXTENT PRACTICAL.

NO ACTION REQUIRED REQUIRED ACTION

ACTION NO.

1.
2.

5. FEDERAL LISTED, PROPOSED THREATENED, ENDANGERED SPECIES, CRITICAL HABITAT, STATE LISTED SPECIES, CANDIDATE SPECIES AND MIGRATORY BIRDS.

NO ACTION REQUIRED REQUIRED ACTION

ACTION NO.

1. THE FEDERAL MIGRATORY BIRD TREATY ACT (MBTA) STATES THAT IT IS UNLAWFUL TO KILL, CAPTURE, COLLECT, POSSESS, BUY, SELL, TRADE OR TRANSPORT ANY MIGRATORY BIRD, NEST, YOUNG, FEATHER, OR EGG IN PART OR IN WHOLE, WITHOUT A FEDERAL PERMIT. IN ACCORDANCE WITH THIS REGULATION, THE CONTRACTOR WILL AVOID DISTURBING, DESTROYING, REMOVING, OR RELOCATING ACTIVE NESTS FOUND IN TREES, CULVERTS, BRIDGES, ON THE GROUND, ETC. TYPICAL BREEDING SEASON OCCURS FROM MARCH THROUGH AUGUST; THEREFORE, TREE TRIMMING AND OTHER ACTIVITIES THAT MAY DISTURB BREEDING BIRDS SHOULD BE DONE IN THE NON-BREEDING SEASON (SEPTEMBER-FEBRUARY), WHEN POSSIBLE. IF WORK MUST BE PERFORMED DURING THE BREEDING SEASON, THE CONTRACTOR SHALL HAVE A QUALIFIED BIOLOGIST CONDUCT A SURVEY OF THE RIGHT OF WAY TO DETERMINE IF BIRD NESTS ARE PRESENT. IN THE EVENT THAT ACTIVE NESTS ARE ENCOUNTERED ON-SITE DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND MEASURES SHALL BE TAKEN TO AVOID DISTURBANCE OF THESE BIRDS, THEIR OCCUPIED NEST, EGGS, AND/OR YOUNG, IN ACCORDANCE WITH THE MBTA. PHASING OF WORK DURING CONSTRUCTION MAY BE NECESSARY TO STAY IN COMPLIANCE WITH THE MBTA. THE CONTRACTOR CAN DISCUSS OTHER PREVENTATIVE MEASURES WITH THE PROJECT ENGINEER AND/OR DISTRICT ENVIRONMENTAL STAFF.

2. TO PROTECT TREE ROOSTING BATS, INCLUDING THE STATE-THREATENED SOUTHERN YELLOW BAT, THE CONTRACTOR WILL AVOID UNNECESSARY REMOVAL OF DEAD FRONDS ON NATIVE AND ORNAMENTAL PALM TREES. IN THE EVENT THAT PALM TREES MUST BE REMOVED OR TRIMMED, THESE ACTIVITIES WILL NOT OCCUR BETWEEN MAY 1ST AND AUGUST 1ST.

3. BE ADVISED OF THE POTENTIAL OCCURRENCE OF PLAINS SPOTTED SKUNK IN THE PROJECT AREA. THIS SPECIES PREFERS WOODED, BRUSHY AREAS AND TALL-GRASS PRAIRIES, BUT MAY ALSO OCCUR IN OPEN FIELDS, FARMYARDS, AND ALONG FENCE ROWS. THE SPECIES IS ALMOST ENTIRELY NOCTURNAL, BUT BECOMES MORE ACTIVE DURING ITS MATING SEASON, MARCH-AUGUST. AVOID UNNECESSARY IMPACTS TO DENS IF ENCOUNTERED. AVOID HARMING THIS SPECIES IF ENCOUNTERED.

4. BE ADVISED OF THE POTENTIAL OCCURRENCE OF SHEEP FROG IN THE PROJECT AREA. THIS SPECIES OCCURS AT MOIST SITES IN ARID AREAS. AVOID HARMING THIS SPECIES IF ENCOUNTERED.

LIST OF ABBREVIATIONS

BMP: BEST MANAGEMENT PRACTICE	SPCC: SPILL PREVENTION CONTROL AND COUNTERMEASURE
CGP: CONSTRUCTION GENERAL PERMIT	SW3P: STORM WATER POLLUTION PREVENTION PLAN
DSHS: TEXAS DEPARTMENT OF STATE HEALTH SERVICES	PCN: PRE-CONSTRUCTION NOTIFICATION
FHWA: FEDERAL HIGHWAY ADMINISTRATION	PSL: PROJECT SPECIFIC LOCATION
MOA: MEMORANDUM OF AGREEMENT	TCEQ: TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
MOU: MEMORANDUM OF UNDERSTANDING	TPDES: TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM
MS4: MUNICIPAL SEPARATE STORMWATER SEWER SYSTEM	TPWD: TEXAS PARKS AND WILDLIFE DEPARTMENT
MBTA: MIGRATORY BIRD TREATY ACT	TxDOT: TEXAS DEPARTMENT OF TRANSPORTATION
NOT: NOTICE OF TERMINATION	T&E: THREATENED AND ENDANGERED SPECIES
NWP: NATIONWIDE PERMIT	USACE: U.S. ARMY CORPS OF ENGINEERS
NOI: NOTICE OF INTENT	USFWS: U.S. FISH AND WILDLIFE SERVICE

6. HAZARDOUS MATERIAL OR CONTAMINATION ISSUES

GENERAL (APPLIES TO ALL PROJECTS):
COMPLY WITH THE HAZARD COMMUNICATION ACT (THE ACT) FOR PERSONNEL WHO WILL BE WORKING WITH HAZARDOUS MATERIALS BY CONDUCTING SAFETY MEETINGS PRIOR TO BEGINNING CONSTRUCTION AND MAKING WORKERS AWARE OF POTENTIAL HAZARDS IN THE WORKPLACE. ENSURE THAT ALL WORKERS ARE PROVIDED WITH PERSONAL PROTECTIVE EQUIPMENT APPROPRIATE FOR ANY HAZARDOUS MATERIALS USED.
OBTAIN AND KEEP ON-SITE MATERIAL SAFETY DATA SHEETS (MSDS) FOR ALL HAZARDOUS PRODUCTS USED ON THE PROJECT, WHICH MAY INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING CATEGORIES: PAINTS, ACIDS, SOLVENTS, ASPHALT PRODUCTS, CHEMICAL ADDITIVES, FUELS AND CONCRETE CURING COMPOUNDS OR ADDITIVES. PROVIDE PROTECTED STORAGE, OFF BORE GROUND AND COVERED, FOR PRODUCTS WHICH MAY BE HAZARDOUS. MAINTAIN PRODUCT LABELING AS REQUIRED BY THE ACT.
MAINTAIN AN ADEQUATE SUPPLY OF ON-SITE SPILL RESPONSE MATERIALS, AS INDICATED IN THE MSDS. IN THE EVENT OF A SPILL, TAKE ACTIONS TO MITIGATE THE SPILL AS INDICATED IN THE MSDS, IN ACCORDANCE WITH SAFE WORK PRACTICES, AND CONTACT THE DISTRICT SPILL COORDINATOR IMMEDIATELY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER CONTAINMENT AND CLEANUP OF ALL PRODUCT SPILLS.

CONTACT THE ENGINEER IF ANY OF THE FOLLOWING ARE DETECTED:
* DEAD OR DISTRESSED VEGETATION (NOT IDENTIFIED AS NORMAL)
* TRASH PILES, DRUMS, CANISTERS, BARRELS, ETC.
* UNDESIRABLE SMELLS OR ODORS
* EVIDENCE OF LEACHING OR SEEPAGE OF SUBSTANCES

DOES THE PROJECT INVOLVE ANY BRIDGE CLASS STRUCTURE REHABILITATION OR REPLACEMENTS (BRIDGE CLASS STRUCTURES NOT INCLUDING BOX CULVERTS)?

YES NO

IF "NO", THEN NO FURTHER ACTION IS REQUIRED.

IF "YES", THEN TxDOT IS RESPONSIBLE FOR COMPLETING ASBESTOS ASSESSMENT/INSPECTION. ARE THE RESULTS OF THE ASBESTOS INSPECTION POSITIVE (IS ASBESTOS PRESENT)?

YES NO

IF "YES", THEN TxDOT MUST RETAIN A DSHS LICENSED ASBESTOS CONSULTANT TO ASSIST WITH THE NOTIFICATION, DEVELOP ABATEMENT/MITIGATION PROCEDURES, AND PERFORM MANAGEMENT ACTIVITIES AS NECESSARY. THE NOTIFICATION FORM TO DSHS MUST BE POSTMARKED AT LEAST 15 WORKING DAYS PRIOR TO SCHEDULED DEMOLITION.

IF "NO", THEN TxDOT IS STILL REQUIRED TO NOTIFY DSHS 15 WORKING DAYS PRIOR TO ANY SCHEDULED DEMOLITION.

IN EITHER CASE, THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE DATE(S) FOR ABATEMENT ACTIVITIES AND/OR DEMOLITION WITH CAREFUL COORDINATION BETWEEN THE ENGINEER AND ASBESTOS CONSULTANT IN ORDER TO MINIMIZE CONSTRUCTION DELAYS AND SUBSEQUENT CLAIMS.

ANY OTHER EVIDENCE INDICATING POSSIBLE HAZARDOUS MATERIALS OR CONTAMINATION DISCOVERED ON SITE. HAZARDOUS MATERIALS OR CONTAMINATION ISSUES SPECIFIC TO THIS PROJECT:

NO ACTION REQUIRED REQUIRED ACTION

ACTION NO.

1.
2.
3.

7. OTHER ENVIRONMENTAL ISSUES

(INCLUDES REGIONAL ISSUES SUCH AS EDWARDS AQUIFER DISTRICT, ETC.)

NO ACTION REQUIRED REQUIRED ACTION

1. DUNE PERMIT AND BEACH FRONT CONSTRUCTION CERTIFICATE PROVIDED BY THE CITY OF SOUTH PADRE.
2.
3.

8. ENVIRONMENTAL PERMITS ISSUED & COMMENTS (EPIC)

(INCLUDES REGIONAL ISSUES SUCH AS EDWARDS AQUIFER DISTRICT, ETC.)

NO ACTION REQUIRED REQUIRED ACTION

1. DUNE PERMIT AND BEACH FRONT CONSTRUCTION CERTIFICATE PROVIDED BY THE CITY OF SOUTH PADRE.
2.
3.

PROJECT No.: C275-21181	
 LJA ENGINEERING TBPE FIRM REG. NO. F-1386	
DESCRIPTION	SEA ISLAND CIRCLE BEACH ACCESS AMENITY IMPROVEMENTS 2300 GULF BOULEVARD SOUTH PADRE ISLAND, TEXAS 78597
BY	MF
DATE	YS
REVISION NO.	C275-21181
REVISION NO.	C18

STORM WATER POLLUTION PREVENTION PLAN GENERAL NOTES:

1. SITE DESCRIPTION:

PROJECT SITE IS LOCATED AT THE SOUTH PADRE ISLAND BEACH ACCESS #5 THE SITE IS ACCESSIBLE VIA GULF BOULEVARD. PROJECT CONSISTS OF IMPROVEMENTS TO THE PARK FACILITIES INCLUDING UPGRADED WALKWAY TO BEACH, MEN AND WOMEN RESTROOMS, CHANGING STATION, FOOT RINSE STATION, AND RINSE STATION.

- LAT. N27°19'08"
- LONG. W97°40'59"
- MAJOR SOIL DISTURBING ACTIVITIES: INSTALLATION OF UNDERGROUND UTILITIES, SITE GRADING & PAVING.
- TOTAL PROJECT AREA: .18 ACRES.
- TOTAL AREA TO BE DISTURBED: .06 ACRES.
- WEIGHTED RUNOFF COEFFICIENT (AFTER CONSTRUCTION): UNCHANGED.

EXISTING CONDITION OF SOIL AND VEGETATIVE COVER AND PERCENTAGE OF EXISTING VEGETATIVE COVER: 5%.
 NAME OF RECEIVING WATERS: THE RECEIVING WATER FOR THE STORM WATER RUNOFF FROM THIS PROPERTY IS GULF OF MEXICO (SEGMENT ID 2492). TCEQ CATEGORIZED THE GULF OF MEXICO AS AQUATIC LIFE USE, CONTACT RECREATION USE, GENERAL USE, FISH CONSUMPTION USE, OYSTER WATERS USE.

2. STORM WATER MANAGEMENT:

STORM WATER DRAINAGE WILL BE PROVIDED BY SURFACE DRAINAGE DITCH CARRYING DRAINAGE DIRECTLY INTO EXISTING GULF OF MEXICO.

3. OTHER EROSION AND SEDIMENT CONTROLS:

MAINTENANCE: ALL EROSION AND SEDIMENT CONTROLS WILL BE MAINTAINED IN GOOD WORKING ORDER, IF A REPAIR IS NECESSARY, IT WILL BE DONE AT THE EARLIEST DATE POSSIBLE.

4. INSPECTION:

AN INSPECTION WILL BE PERFORMED BY THE CONTRACTOR AND/OR THE OWNER EVERY WEEK AS WELL AS AFTER EVERY HALF INCH OR MORE OF RAIN (AS RECORDED ON A RAIN GAUGE TO BE LOCATED AT THE PROJECT SITE). AN INSPECTION AND MAINTENANCE REPORT WILL BE MADE PER EACH INSPECTION, AND CONTROLS SHALL BE REVISED AS INDICATED BY THIS INSPECTION REPORT.

5. WASTE MATERIALS:

WASHOUT AREAS FOR CONCRETE TRUCKS WILL NOT BE ALLOWED AT THE PROJECT SITE. ALL MEASURES SHALL BE TAKEN TO PROTECT THE SURROUNDING AREA FROM CONTAMINATION. ALL WASTE MATERIAL SHALL BE COLLECTED AND SECURELY STORED UNTIL REMOVED FROM JOBSITE. NO CONSTRUCTION WASTE MATERIAL SHALL BE BURIED ON SITE.

6. HAZARDOUS WASTE (INCLUDING SPILL REPORTING):

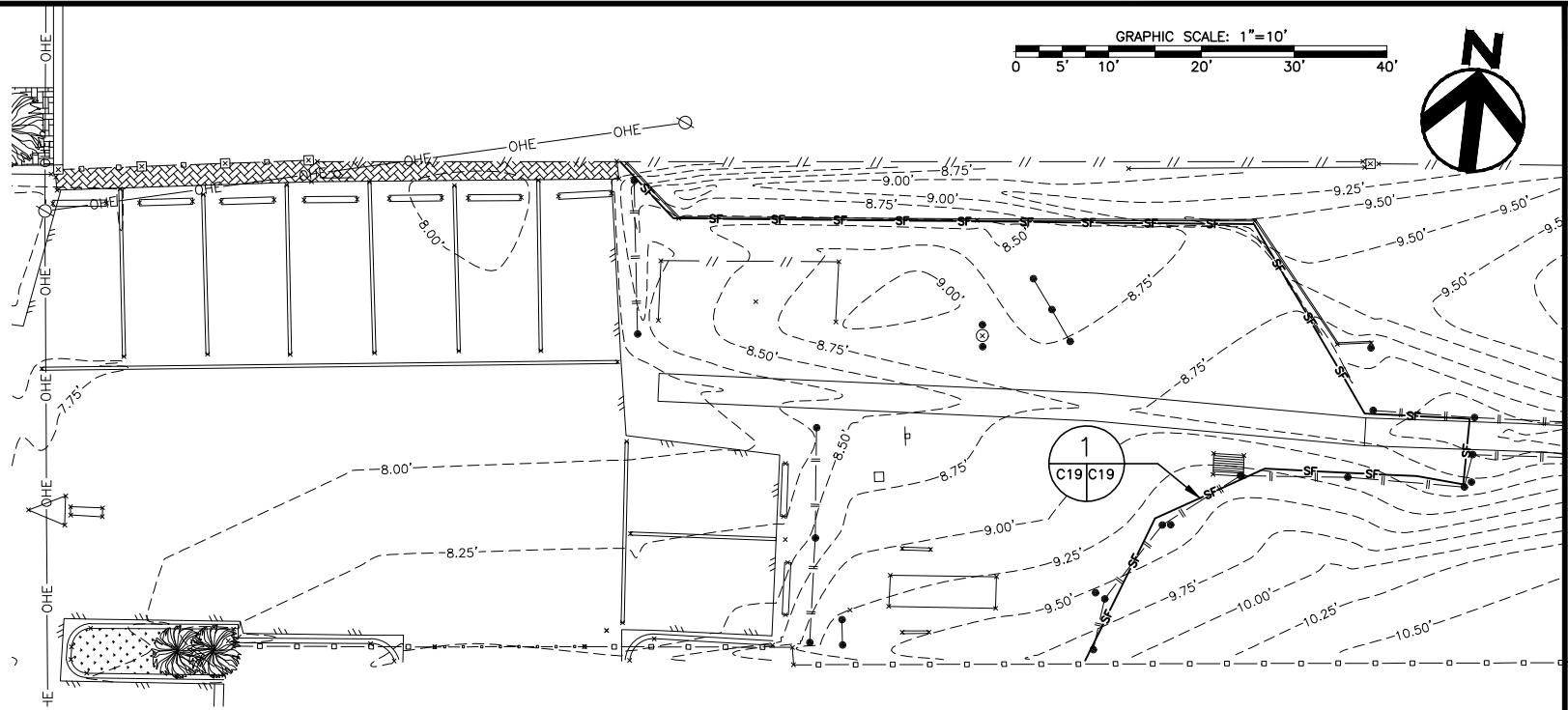
AT A MINIMUM, ANY PRODUCTS IN THE FOLLOWING CATEGORIES ARE CONSIDERED TO BE HAZARDOUS: PAINTS, ADHESIVES, PETROLEUM PRODUCTS, CLEANING SOLVENTS, ASPHALT PRODUCTS, OR CONCRETE CURING COMPOUNDS AND ADDITIVES. IN THE EVENT OF A SPILL WHICH MAY BE HAZARDOUS, THE SPILL COORDINATOR SHALL BE CONTACTED IMMEDIATELY. ALL PRODUCTS USED SHALL BE STORED IN PROPERLY LABELED CONTAINERS, AND REMOVED FROM THE JOBSITE WHEN NO LONGER NEEDED.

7. SANITARY WASTE:

ALL SANITARY WASTE WILL BE COLLECTED FROM PORTABLE UNITS AS NECESSARY; OR AS REQUIRED BY LOCAL REGULATION, BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR.

BEST MANAGEMENT PRACTICES NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR PREPARATION OF A SWPPP AND FILING A NOTICE OF INTENT WITH THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) AND OBTAINING A TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM (TPDES) PERMIT. THE CONTRACTOR SHALL MAINTAIN A COPY OF THE TPDES PERMIT ON SITE AT ALL TIMES DURING CONSTRUCTION.
2. THE CONTRACTOR SHALL ABIDE BY THE PROVISIONS OF TCEQ STORM WATER POLLUTANT DISCHARGE ELIMINATION SYSTEM REGULATIONS CONCERNING PERMITS FOR CONSTRUCTION ACTIVITIES, INCLUDING IMPLEMENTATION OF THE POLLUTION PREVENTION PLAN AND BEST MANAGEMENT PRACTICES.
3. FUELING AND MAINTENANCE OF VEHICLES AND EQUIPMENT SHALL BE PERFORMED IN COMPLIANCE WITH EPA AND ALL OTHER FEDERAL AND STATE REGULATIONS.
4. ALL TEMPORARY EROSION/SEDIMENTATION CONTROL DEVICES SHALL BE IN PLACE PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING ADEQUATE EROSION/ SEDIMENTATION CONTROL MEASURES TO PROTECT ADJACENT PROPERTIES, STORM SEWERS AND DRAINAGEWAYS.
5. NATURAL AND CULTIVATED VEGETATION SHALL BE LEFT UNDISTURBED AS MUCH AS POSSIBLE.
6. THE CONTRACTOR SHALL CONSTRUCT STRUCTURAL BEST MANAGEMENT PRACTICES AS NEEDED AND AS REQUIRED TO PREVENT SILT AND DEBRIS FROM ENTERING INTO THE STORM SEWER SYSTEM.
7. THE CONTRACTOR SHALL CONSTRUCT STABILIZED CONSTRUCTION ENTRANCES AT SUFFICIENT LOCATIONS (AS NEC.) TO PREVENT VEHICLES AND EQUIPMENT FROM TRACKING MUD ONTO EXISTING STREETS.
8. THE CONTRACTOR SHALL BE REQUIRED TO SPRINKLE FOR DUST CONTROL AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
9. THE CONTRACTOR SHALL INSPECT TEMPORARY EROSION/SEDIMENTATION CONTROLS PERIODICALLY TO ENSURE THAT THE CONTROLS HAVE NOT BEEN SIGNIFICANTLY DISTURBED. ANY SEDIMENT OR DEBRIS THAT HAS ACCUMULATED SHALL BE REMOVED AND PLACED IN A DESIGNATED SPOILS DISPOSAL SITE.
10. ALL TREES WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED DURING CONSTRUCTION WITH TEMPORARY FENCING OR OTHER APPROVED MEANS. WHERE CONDITIONS PREVENT INSTALLING TEMPORARY FENCING AT LEAST 4 FEET FROM THE TREE TRUNK, THE CONTRACTOR SHALL PROTECT THE TREE TRUNK WITH STRAPPED-ON PLANKING. USE OF NAILS IS PROHIBITED.
11. THE CONTRACTOR SHALL NOT USE MECHANICAL EXCAVATORS, TO THE MAXIMUM EXTENT PRACTICAL, WITHIN THE CRITICAL ROOT ZONE OF TREES TO AVOID DAMAGE TO THE TREE'S ROOT SYSTEM. THE CONTRACTOR SHALL DIRECTIONAL BORE UTILITY LINES OR HAND DIG UTILITY LINES WITHOUT DAMAGING ROOTS.
12. ALL DISTURBED AREAS SHALL BE RESTORED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. A MINIMUM OF 4 INCHES OF TOPSOIL SHALL BE PLACED IN ALL DISTURBED AREAS. THE CONTRACTOR SHALL BEGIN RESTORATION AS SOON AS FINAL SHAPING OR USE OF THE AREA IS COMPLETE, PRIOR TO FINAL COMPLETION OF ALL IMPROVEMENTS. RESTORATION SHALL INCLUDE HYDRO MULCHING, SEEDING OR SODDING, FERTILIZING, FIBER MULCHING AND WATERING (REFER TO SPECIFICATIONS). RESTORATION SHALL BE ACCEPTABLE ONLY WHEN THE GRASS HAS REACHED A HEIGHT OF AT LEAST 1 INCH WITH 85 PERCENT COVERAGE, AND NO BARE SPOTS GREATER THAN 10 SQUARE FEET EXIST.
13. ALL NEW GRASS SOD AREAS SHALL BE IRRIGATED OR SPRINKLED IN A MANNER WHICH WILL NOT ERODE THE TOPSOIL BUT WILL SUFFICIENTLY SOAK THE SOIL TO A DEPTH OF 6 INCHES.

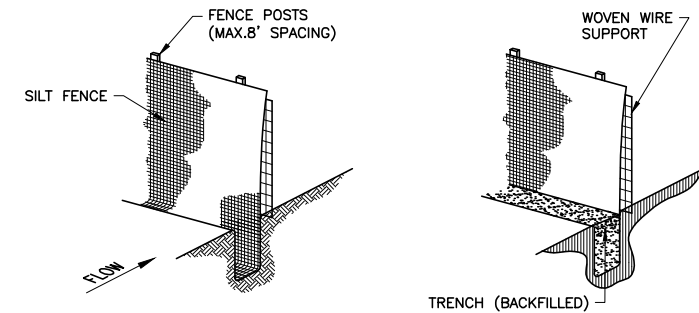


CONSTRUCTION SITE DATA

1. NATURE OF CONSTRUCTION ACTIVITY: SITE CONSTRUCTION.
2. TOTAL AREA OF PROJECT: APPROX. .18 ACRES
3. TOTAL AREA OF SITE EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES: APPROX. .06 ACRES
4. ESTIMATE OF RUNOFF COEFFICIENT OF THE SITE AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED: UNCHANGED.
5. EXISTING SOIL IS TYPICALLY FINE SAND.
6. DISCHARGE FROM THE SITE WILL BE FILTERED.
7. WATER BODY RECEIVING STORMWATER RUNOFF IS GULF OF MEXICO.

LEGEND

—SF— SILT FENCE.



1 C19 C19
SILT FENCE
NOT TO SCALE

NOTES:

1. POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE.
2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW.
3. THE TRENCH SHOULD BE A MINIMUM OF 6 INCHES DEEP AND 4-8 INCH WIDE TO ALLOW FOR THE SILT FENCE TO BE LAID IN THE GROUND AND BACKFILLED.
4. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL FENCE POSTS.
5. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
6. SILT FENCE SHALL BE REMOVED WHEN IT HAS SERVED ITS USEFULNESS, SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
7. SEDIMENT TRAPPED BY THIS PRACTICE SHALL BE DISPOSED OF IN AN APPROVED SITE IN A MANNER THAT WILL NOT CONTRIBUTE TO ADDITIONAL SILTATION.
8. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 6 INCHES.

CONTRACTOR/OPERATOR IS RESPONSIBLE FOR PREPARATION AND IMPLEMENTATION OF A SPECIFIC STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IN ACCORDANCE WITH TCEQ REQUIREMENTS PRIOR TO COMMENCING WORK. THE SWPPP SHOULD INCLUDE THIS SHEET TO DEFINE THE TYPE AND LOCATION OF PROPOSED BMP'S.

R:\CLIENTS\city of south padre - 275\21181 - sea island circle amenities\CAD\STORMWATER POLLUTION PREVENTION PLAN NOTES & DETAILS.dwg mquerra Mon, Jan 09 2023 @ 10:08:19 am

PROJECT No.:
C275-21181

LJA ENGINEERING
TBP FIRM REG. NO. F-1386

SEA ISLAND CIRCLE
 BEACH ACCESS AMENITY IMPROVEMENTS
 2300 GULF BOULEVARD
 SOUTH PADRE ISLAND, TEXAS 78597

**STORMWATER POLLUTION
 PREVENTION PLAN, NOTES & DETAILS**

SCALE: AS NOTED
 DRAWN BY: MF
 APPROVED BY: YS
 DATE:
 JOB NO. C275-21181

C19

DESCRIPTION	BY	DATE	REVISION NO.