

MOBILE COUNTY COMMISSION

COUNTY COMMISSIONERS
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Telephone (251) 574-5077



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EDDIE KERR, PE, DEPUTY COUNTY ADMINISTRATOR
Telephone (251) 574-5073
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May 5, 2020

VIA EMAIL

Ms. Christy Fellas
NOAA Restoration Center
Deepwater Horizon NRDA Program
St. Petersburg, FL

RE: Bayfront Park – Essential Fish Habitat Consultation
Mobile County Commission

Ms. Fellas,

Thank you for your efforts to review the Bayfront Park project for Essential Fish Habitat (EFH) impacts. As requested, this letter attempts to compile all information relevant to the EFH review in order to facilitate completion of the process. In short, the information provided in the Essential Fish Habitat Assessment prepared by Barry A. Vittor & Associates, Inc. and dated February 4, 2020 is correct based on the current level of design.

The project Biological Evaluation Form that was completed at some time in the past contained language that there would be a “10-acre sand pocket beach in front of existing riprap, with 360 ft. of breakwaters and 800 ft. of grounds...”. Mobile County can unequivocally say that this information is not correct. It is assumed that this language was used early on in the grant development process before any analysis was performed.

The correct acreage of beach that is in areas of EFH is approximately 2.1 acres. Additionally, the area of groins is approximately 0.8 acres. These acreages are based on the current design status of near 60%. Calculations for this area prepared by Barry A. Vittor are contained in an attachment to this letter (note that the EFH Assessment contains an acreage of 2.87 acres, whereas the attached exhibit contains 2.9 acres – the difference of a few hundredths is due to rounding). Any future adjustments regarding beach/groin structures will only serve to reduce the acreage of impacts.

In addition to beach and groin structures, the Biological Evaluation Form makes mention of over 2000 linear feet of boardwalk to be constructed in this project. The Biological Evaluation

Form contains outdated information – the linear feet of boardwalk has been reduced from the length in the BE Form due to budgetary reasons.

The updated linear feet of boardwalk being constructed in this project is approximately 865 linear feet. Of this 865 linear feet, 160 linear feet will span tidal marsh. This length is referenced in the ESF Assessment prepared by Barry A. Vittor & Associates.

Additional attachments to this letter include the 90% park construction plans and the 30% pocket beach plans.

Please let me know if you have any further questions.

Best regards,



S. Matthew Jones, P.E.
Environmental Services Engineer
Mobile County Commission

SMJ/

Attachments: Barry Vittor Calculations
90% Park Construction Plans
30% Pocket Beach Construction Plans

cc: Mr. Eddie Kerr, P.E.
Ms. Tina Sanchez
Ms. January Murray
Ms. Kelly Swindle
Dr. Barry A. Vittor
File

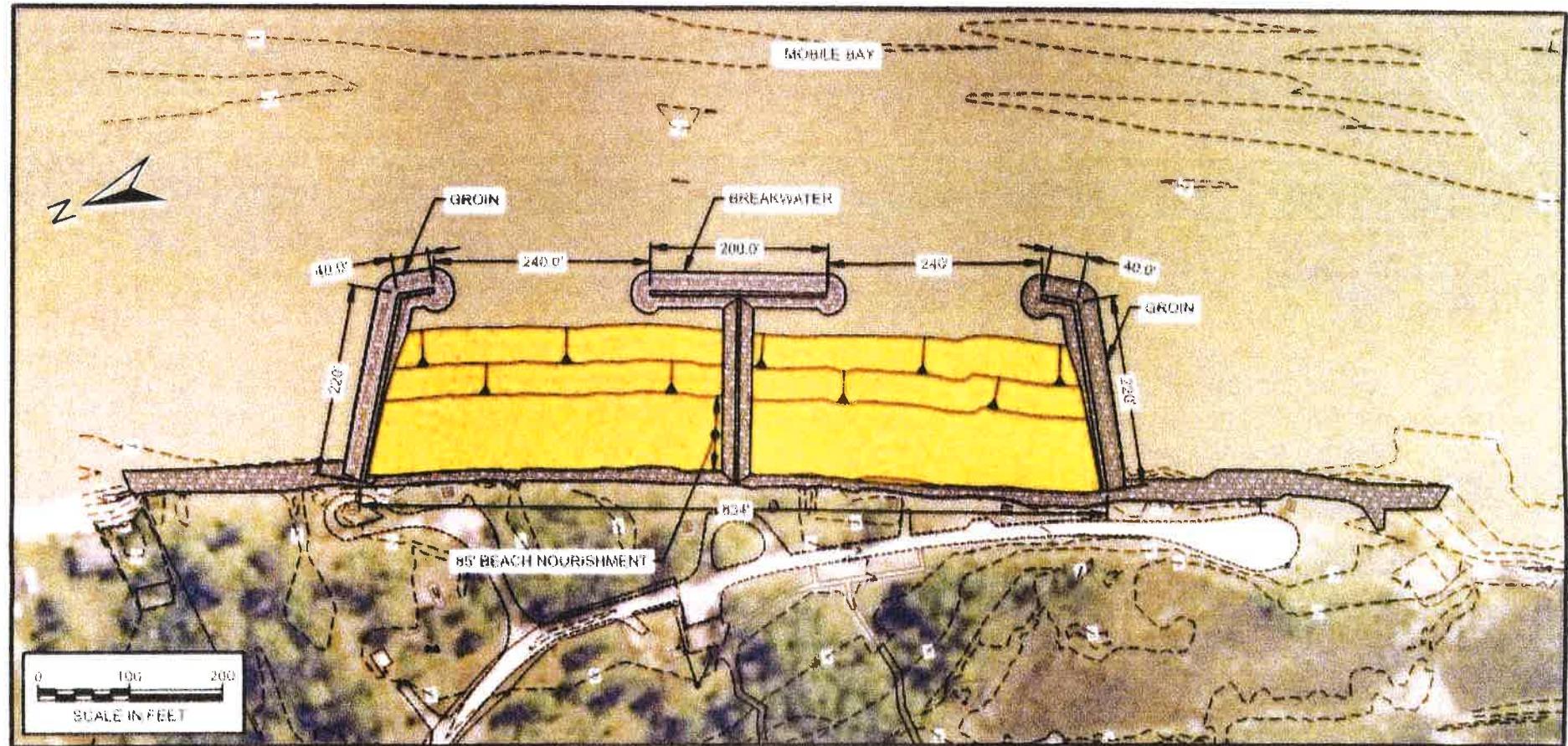


Figure 4. Site plan for the selected design for the proposed pocket beach

Center Breakwater $\approx 9,600 \text{ ft}^2$

North Groat $\approx 12,000 \text{ ft}^2$

South Groat $\approx 12,000 \text{ ft}^2$

Total Area of EFH loss by rock fill $\approx 0.8 \text{ ac}$

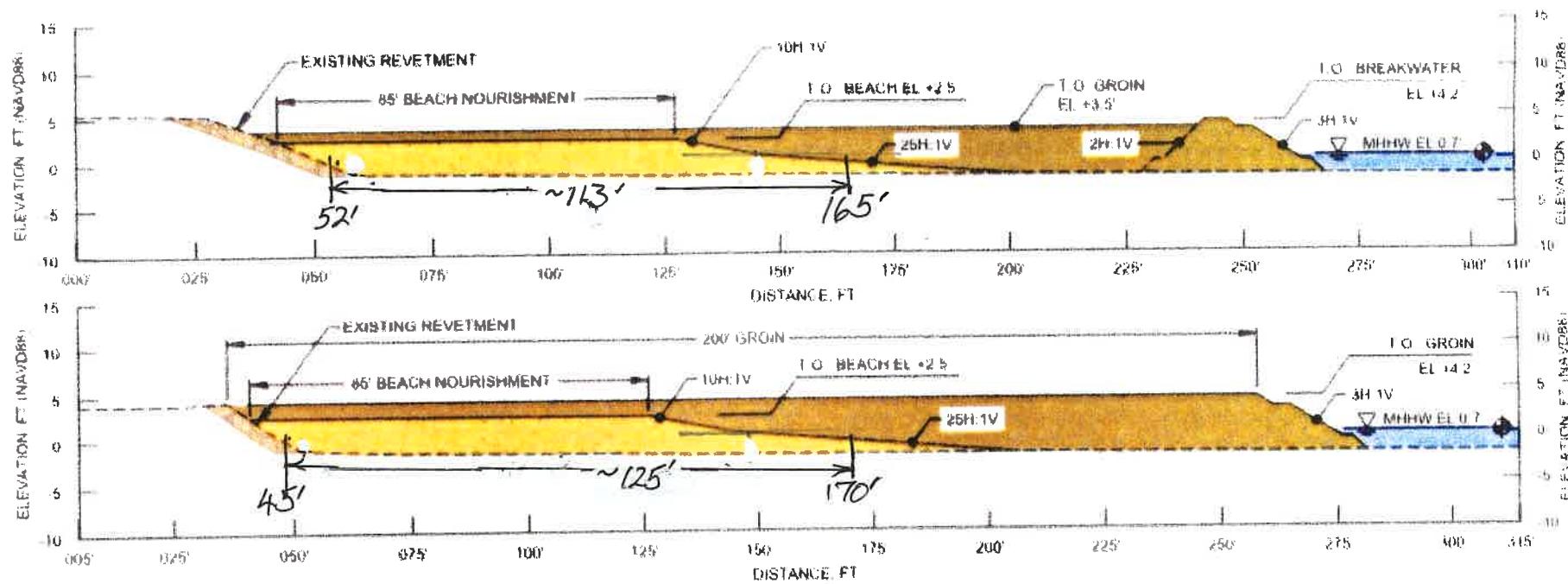


Figure 5. Profile views of the proposed beach nourishment area and protective structures

Average width of beach fill above MSL ≈ 119 ft

Average length of beach ≈ 780 ft

Area of EFH loss by beach fill ≈ 2.1 acres

MOBILE COUNTY COMMISSION

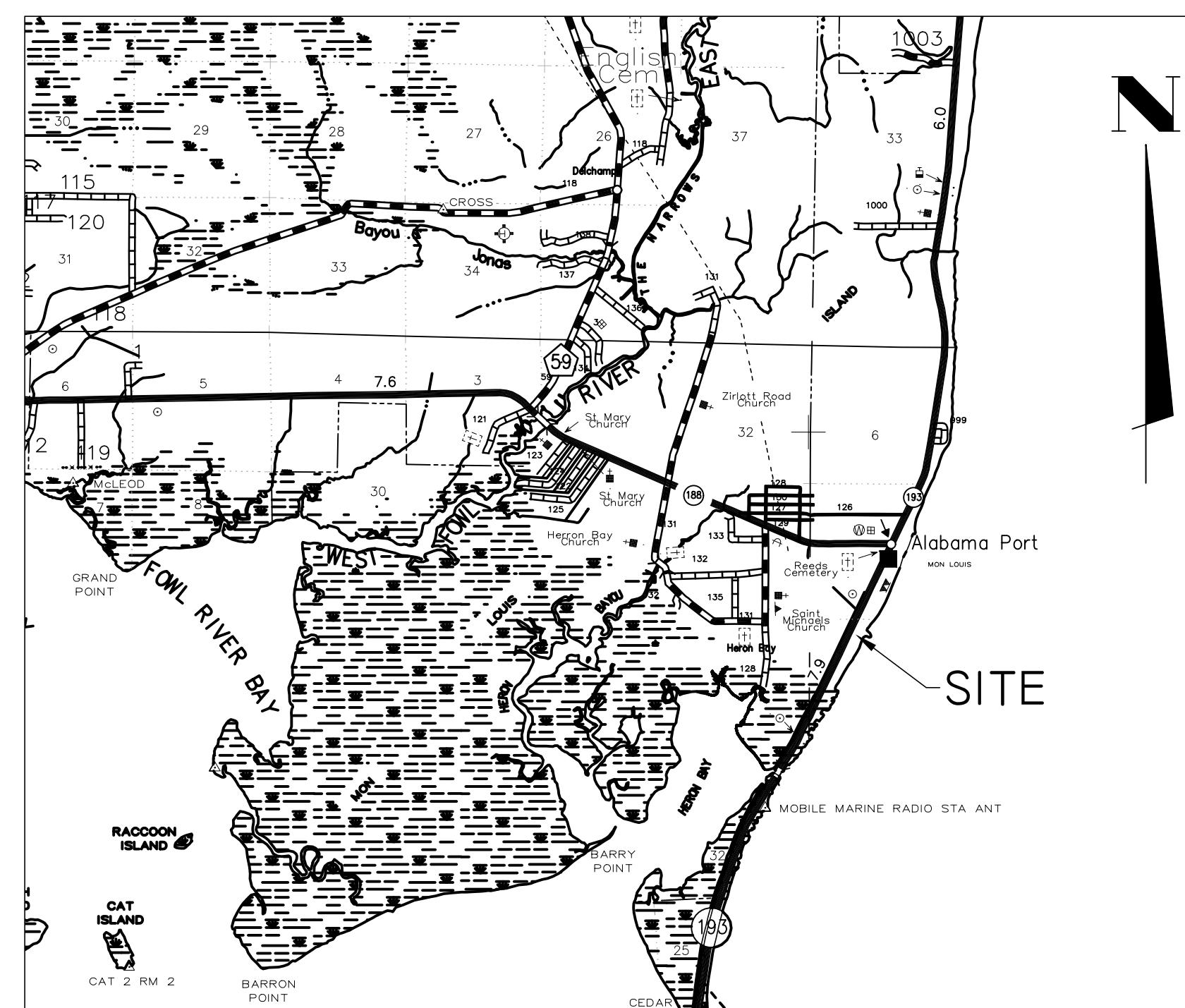
BAYFRONT PARK RESTORATION & IMPROVEMENTS

PROJECT NUMBER: NRDA-17-004

MAY, 2020

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MOBILE COUNTY COMMISSION
 MERCERIA LUGGOOD - COMMISSIONER
 CONNIE HUDSON - COMMISSIONER
 JERRY CARL - COMMISSIONER (PRESIDENT)

ADMINISTRATIVE APPROVAL:

EDDIE KERR, P.E. - MOBILE COUNTY
 ENGINEERING MANAGER
 ENVIRONMENTAL SERVICES DEPARTMENT
 PROJECT NO. NRDA-17-004

NEEL-SCHAFFER
Solutions you can build upon

M
M
 MOTT MACDONALD Alabama, LLC.
 MOTT MACDONALD Architects, Inc.

**BARRY A. VITTOR AND
 ASSOCIATES**

GET
 GEOTECHNICAL
 ENGINEERING
 TESTING, INC.

WATTIER SURVEYING, INC.
 PROFESSIONAL LAND SURVEYORS
 4321 Downtown Loop N., Suite 201 251-342-2640
 Mobile, Alabama 36609 fax 251-342-2648

**90% SUBMITTAL
 (NOT FOR CONSTRUCTION)**

SUBMITTED BY:

KIRBY LATHAM AL. REG. NO. 23388 DATE

GENERAL NOTES:

- ALL PORTLAND CEMENT CONCRETE SHALL CONFORM TO SECTIONS 501 AND 815 OF ALDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2018 EDITION. UNLESS NOTED OTHERWISE, PAVEMENT CLASS B OR D ($f_c = 4000$ PSI).
- ALL CONCRETE REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60 UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- ALL DETAILING, FABRICATION, AND PLACING OF REINFORCING STEEL SHALL CONFORM TO CRSI RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS.
- ALL COMPACTED EARTH FILL AND OTHER EARTHWORK SHALL CONFORM TO ALDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2018 EDITION, UNLESS NOTED OTHERWISE.
- ALL DEBRIS AND FOREIGN MATERIAL SHALL BE REMOVED FROM THE SITE AND SHALL NOT BE PERMITTED IN COMPACTED EARTH FILL.
- OMIT
- ALL EROSION CONTROL MEASURES SHALL CONFORM TO ALDOT STANDARD SPECIFICATIONS OR APPLICABLE SPECIFICATIONS CONTAINED WITHIN THE CONTRACT DOCUMENT.
- OMIT.
- EPOXY BONDER SHALL CONFORM TO ASTM C881.
- ASPHALTIC CONCRETE SHALL BE ALDOT SUPERPAVE ASPHALTIC CONCRETE, ESAL RANGE C/D, UNLESS OTHERWISE NOTED.
- ALL CRUSHED AGGREGATE BASE SHALL BE COMPACTED TO 98% ASTM D-698 MAX DRY DENSITY WITHIN 2% OPTIMUM MOISTURE CONTENT.
- OMIT.
- FILL MATERIALS SHALL BE PLACED IN HORIZONTAL LAYERS NOT EXCEEDING TWELVE INCHES COMPACTED THICKNESS. EACH LIFT OF SELECT FILL SHALL BE COMPACTED TO A MINIMUM OF NINETY-FIVE PERCENT OF LABORATORY MAXIMUM AS DETERMINED BY ASTM D-1157, METHOD "A".
- ALL IMPORTED FILL MATERIAL SHALL MEET AASHTO A-2-4(O) OR BETTER. COMPACTION OF SC AND CL MATERIALS SHALL CONFORM TO THE REQUIREMENTS GIVEN IN THE SOIL REPORT.
- ANY WORK ITEMS NOT SPECIFIED IN THE PLANS SHALL CONFORM TO ALDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2018 EDITION.
- CONTRACTOR SHALL AT ALL TIMES HAVE THE FOLLOWING AT THE SITE: A) MOBILE COUNTY WATER, SEWER AND FIRE PROTECTION AUTHORITY SPECIFICATIONS; B) SOUTH ALABAMA UTILITIES SPECIFICATIONS; C) ALABAMA DEPARTMENT OF TRANSPORTATION (ALDOT) SPECIFICATIONS (LATEST EDITION); D) MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD LATEST EDITION); E) ADEM PERMIT; F) ARMY CORPS OF ENGINEERS PERMIT.
- ANY EXISTING PROPERTY CORNERS (I.E. - IRON PIPES, CAPPED PIPES, CAPPED MONUMENTS, ETC.) DISPLACED OR DAMAGED DURING CONSTRUCTION SHALL BE RESET BY A PLS LICENSED IN THE STATE OF ALABAMA AT NO COST TO THE OWNER.
- THE CONTRACTOR SHALL KEEP THE PROJECT RIGHT-OF-WAYS CLEAN FROM TRASH AND DEBRIS. PLACEMENT/DISCARDING OF TRASH AND REFUSE IN UTILITY TRENCHES AND/OR OTHER EXCAVATIONS ASSOCIATED WITH THE PROJECT SHALL BE PROHIBITED. THE CONTRACTOR SHALL PROVIDE TRASH RECEPTACLES FOR WORKER USE. THE ROADWAYS AND SIDEWALKS SHALL BE SWEEPED AND WASHED DOWN REGULARLY TO LIMIT THE TRACKING OF DIRT THROUGH THE PROJECT BEFORE THE END OF THE WORK DAY ON FRIDAY.
- AT THE END OF THE PROJECT THE CONTRACTOR SHALL POWER WASH ALL CONCRETE SIDEWALKS TO ELIMINATE STAINING FROM EARTHEN MATERIALS, CONSTRUCTION EQUIPMENT, OILS, PAINTS, ETC. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE GIVEN.
- THE LOCATIONS OF THE EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AS PROVIDED BY UTILITY OWNERS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL CONTACT ALABAMA ONE-CALL FOR UTILITY LOCATES. IN THE EVENT OF ANY DAMAGE TO IN-PLACE UTILITIES, THEY SHALL BE REPAIRED AND REPLACED TO THE SATISFACTION OF THE ENGINEER AND THE UTILITY OWNER AT THE CONTRACTOR'S EXPENSE.
- EXISTING SANITARY SEWER, STORM DRAIN, WATER DISTRIBUTION/FIRE PROTECTION, ETC. INFRASTRUCTURE TO BE RETAINED AS PART OF THIS PROJECT SHALL BE PROTECTED AT ALL TIMES. ANY DAMAGE TO THESE STRUCTURES SHALL BE REPAIRED TO THE OWNER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE.
- SITE DRAINAGE DURING CONSTRUCTION IS THE CONTRACTOR'S RESPONSIBILITY TO MANAGE. THIS INCLUDES DEWATERING AREAS ON THE PROJECT SITE INCLUDING, BUT NOT LIMITED TO, FOOTINGS, RETAINING WALLS, SITE IMPROVEMENTS, DRIVES, STORM DRAINAGE, ETC. THERE SHALL BE NO ADDITIONAL PAY FOR DEWATERING, AND IT SHALL BE CONSIDERED INCIDENTAL.
- IT IS IMPORTANT FOR THE CONTRACTOR TO MAINTAIN THE CONSTRUCTION SITE AND THE EXISTING FACILITIES IN A POSITIVELY DRAINED CONDITION BOTH DURING AND AFTER CONSTRUCTION. PONDING WATER CAN LEAD TO THE DETERIORATION OF THE SUBGRADE SURFACE NECESSITATING OVER-EXCAVATION OF THE SOFTENED土. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE IF THESE CONDITIONS ARE ENCOUNTERED IN THE FIELD THAT WOULD REQUIRE REMEDIAL TREATMENT WHICH COULD EFFECT THE STABILITY OF THE SITE. ANY UNSUITABLE MATERIAL CREATED AS A RESULT OF THE CONTRACTOR'S FAILURE TO PROVIDE SUITABLE DRAINAGE FROM SUBGRADE AND PROTECTION FROM CONSTRUCTION TRAFFIC SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT.
- ALL CONSTRUCTION RELATED TRAFFIC SHALL ENTER AND EXIT THE SITE VIA THE REQUIRED CONSTRUCTION ENTRANCE.

811 Know What's Below,
Call Before You Dig

PROJECT CONTACT INFORMATION

ALABAMA POWER COMPANY CONTACT: DAVID R. RICHARDSON 150 ST. JOSEPH STREET MOBILE, ALABAMA 36602 (251) 694-2448	(WATER) SOUTH ALABAMA UTILITIES CONTACT: MARCUS HOBBS 4800 MCGRARY ROAD SEMMES, ALABAMA 36575 (251) 649-4316	(SEWER) MOBILE COUNTY WATER, SEWER AND FIRE PROTECTION AUTHORITY CONTACT: ROB DAVIS 5780 THEODORE DAWES ROAD THEODORE, ALABAMA 36582 (251) 653-7346
COMCAST CABLEVISION OF MOBILE CONTACT: KURT SPENCE 3248 SPRINGHILL AVENUE MOBILE, ALABAMA 36607 (251) 665-6599	SPIRE ENERGY CONTACT: JACOB HOFFSTUTLER 2828 DAUPHIN STREET MOBILE, ALABAMA 36652 (251) 450-4789	
MEDIACOM CONTACT: JASON BRECKENRIDGE 25508 CABINET SHOP RD LOXLEY, ALABAMA 36551 (251) 666-0849	AT&T CONTACT: EDDIE MONTGOMERY 2155 OLD SHELL ROAD MOBILE, ALABAMA 36607 (251) 470-5657	

WATER DISTRIBUTION NOTES:

- THE WATER DISTRIBUTION SYSTEM THAT WILL BE TAPPED FOR THIS DEVELOPMENT IS OWNED AND OPERATED BY SOUTH ALABAMA UTILITIES. THE CONTRACTOR SHALL NOT AT ANY TIME TURN ON/OFF EXISTING WATER VALVES AND FIRE HYDRANTS. SOUTH ALABAMA UTILITIES SHALL OPERATE ALL VALVING AT ALL TIMES. TAPS AND CONNECTIONS TO EXISTING MAINS SHALL BE APPROVED AND COORDINATED WITH THE MOBILE AREA WATER & SEWER SYSTEM. ANY FINES AND/OR PENALTIES INCURRED BY THE CONTRACTOR FOR IMPROPER OPERATION OF THE WATER DISTRIBUTION AND FIRE PROTECTION SYSTEM SHALL BE THE EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR (APPLIES TO CONTRACTOR AND ALL SUBCONTRACTORS).
- SOUTH ALABAMA UTILITIES, OWNER'S REPRESENTATIVE, AND LOCAL WATER CUSTOMERS SHALL BE NOTIFIED A MINIMUM OF 48 HOURS IN ADVANCE BEFORE ANY WATER DISTRIBUTION IMPROVEMENTS BEGIN.
- ALL MAINS AND SERVICE LINES SHALL HAVE 36" MINIMUM COVER.
- DOMESTIC SERVICES (METERS), BACKFLOW PREVENTERS, WATER LATERALS, WATER MAINS ETC. SHALL BE INSTALLED ACCORDING TO MOBILE AREA WATER & SEWER SYSTEM STANDARDS AND THE STANDARD DETAILS INCLUDED IN THIS PLAN SET.
- ALL WATER DISTRIBUTION MAINS SHALL HAVE DUCTILE IRON FITTINGS ONLY. ALL GATE VALVES INSTALLED ON THE WATER DISTRIBUTION SYSTEM SHALL BE RESILIENT WEDGE VALVES TO ENSURE EASE OF OPERATION AND RELIABILITY.
- THE CONTRACTOR SHALL VERIFY THE EXISTING WATER MAIN LOCATIONS PRIOR TO INSTALLING THE REQUIRED WATER MAINS. THESE LOCATIONS SHALL BE PROVIDED TO THE OWNER'S REPRESENTATIVE FOR VERIFICATION.

SANITARY SEWER NOTES:

- THE MOBILE COUNTY WATER, SEWER AND FIRE AUTHORITY, THE OWNER'S REPRESENTATIVE, AND LOCAL BUSINESSES/RESIDENTS SHALL BE NOTIFIED A MINIMUM OF 48 HOURS IN ADVANCE BEFORE ANY SANITARY SEWER IMPROVEMENTS BEGIN.
- THE CONTRACTOR SHALL VERIFY CONNECTIONS FOR FLOW LINE ELEVATIONS OF EXISTING SANITARY SEWER PIPING AND MANHOLE INVERTS BEFORE INSTALLING ANY REQUIRED SANITARY SEWER STRUCTURES AND PIPING. THE OWNER'S REPRESENTATIVE SHALL VERIFY THE PROPOSED DESIGN AS SOME INFORMATION WAS NOT VERIFIABLE DURING THE DESIGN. IF THE CONTRACTOR IGNORES THIS REQUEST AND HIS INSTALLATION IS INCORRECT, THEN IT SHALL BE HIS RESPONSIBILITY TO RELAY OR RESET ALL PIPING OR STRUCTURES AT HIS COST AFTER THE OWNER'S REPRESENTATIVE FIELD VERIFIES THE INVERTS AND/OR GRADES.
- ALL REQUIRED SANITARY STRUCTURE TOPS WITHIN A PAVED AREA SHALL MATCH FINISHED PAVEMENT GRADE.
- ALL SANITARY SEWER MAINS AND SERVICE CONNECTIONS SHALL HAVE DUCTILE IRON FITTINGS ONLY AS PER THE DETAILS REGARDLESS OF THE MAIN OR LATERAL TYPE (PVC OR DI).
- ANY EXISTING SANITARY STRUCTURES RETAINED AS PART OF THIS PROJECT SHALL BE THOROUGHLY CLEANED, WALLS WIPE WITH GROUT TO MAKE WATER TIGHT, INVERTS FORMED IF NECESSARY, EXISTING PIPING/DRAINS REGROUTED, ETC.
- WHEN TAPPING TO EXISTING UTILITY PIPING WITH SANITARY SEWER STRUCTURES, THE CONTRACTOR SHALL USE EXTREME CARE ONLY EXCAVATING AND REMOVING THE NECESSARY AMOUNT OF PIPING TO INSTALL THE REQUIRED STRUCTURE. DAMAGE TO THE EXISTING UTILITY PIPING SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE/REPLACE AT HIS COST.
- THE CONTRACTOR SHALL KEEP ALL LIVE SANITARY MAINS AND LATERALS FLOWING CONTINUOUSLY BY WHATEVER MEANS NECESSARY INCLUDING BYPASS PUMPING, TIE-INS AT NIGHT OR ON WEEKENDS, ETC.
- ALL MANHOLE AND MAIN INSTALLATIONS SHALL BE TESTED, TESTING IS CONSIDERED INCIDENTAL TO THE PROJECT. THE CONTRACTOR SHALL COORDINATE ALL TESTING WITH THE ENGINEER AND THE MOBILE AREA WATER & SEWER SYSTEM.
- BYPASS PUMPING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL HAVE A BACK-UP PUMP ON SITE DURING ALL SEWER RELOCATIONS. ANY PLAN FOR BYPASS PUMPING SHALL BE REVIEWED AND APPROVED BY THE MOBILE AREA WATER & SEWER SYSTEM.

DEMOLITION NOTES:

- ANY DEMOLITION WORK REQUIRED IN THE PLANS THAT DOES NOT HAVE A SPECIFIC CALLOUT SHALL BE PERFORMED AS A SUBSIDIARY OBLIGATION AT NO ADDITIONAL COST. CONTRACTOR SHALL USE MOBILIZATION (600-A) AS THE ITEM FOR THIS COST.
- THE CONTRACTOR SHALL USE EXTREME CAUTION DURING DEMOLITION IN ORDER TO PREVENT DAMAGE TO EXISTING ITEMS THAT ARE TO BE RETAINED. ANY DAMAGE TO EXISTING ITEMS THAT ARE TO BE RETAINED SHALL BE REMOVED/REPLACED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL SAWCUT ALL EXISTING PAVEMENT TO BE REMOVED WITH A STRAIGHT, CLEAN REMOVAL JOINT TO ENSURE PROPOSED PAVEMENT JOINS TO EXISTING CLEANLY.
- THE CONTRACTOR SHALL COORDINATE REMOVAL/RELOCATION OF PRIVATE UTILITIES WITH THE UTILITY OWNER.

PAVING, SIGNING, AND STRIPING NOTE:

- THE CONTRACTOR SHALL SAW-CUT ALL EXISTING PAVEMENTS TO BE REMOVED WITH A STRAIGHT, CLEAN REMOVAL JOINT TO ENSURE PROPOSED PAVEMENTS JOIN TO EXISTING CLEANLY.
- ALL PARKING STRIPING, MARKINGS, AND LEGENDS SHALL BE ALDOT CLASS 1, TYPE B UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL NOTE THE DIFFERENT PAVEMENT TYPICAL SECTIONS FOR THE PROJECT.

SITE GRADING AND STAKING NOTES:

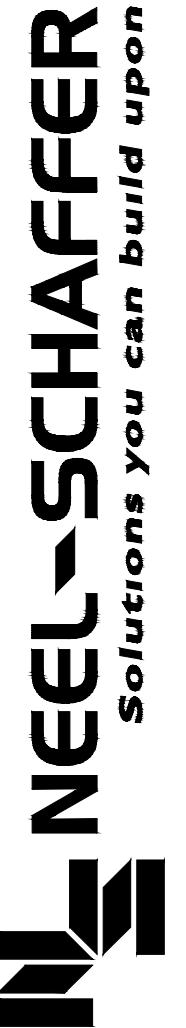
- THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
- TOPSOIL SHALL BE PLACED WHERE INDICATED ON THE CONSTRUCTION PLANS AND ALL DISTURBED AREAS SHALL BE SEDED, SOLID SODDED OR LANDSCAPED ONCE FINAL GRADING OPERATIONS HAVE BEEN COMPLETED WITHIN THE SPECIFIC AREA. THE CONTRACTOR SHALL REFER TO SHEET C-2.1 WHICH SHOWS WHICH AREAS ARE TO BE SEDED AND WHICH AREAS ARE TO BE SOLID SODDED OR LANDSCAPED.
- ALL EMBANKMENT FILL AND BORROW EXCAVATION MATERIALS BENEATH REQUIRED PAVEMENT SHALL BE COMPAKED IN LOOSE 6" LIFTS TO 98% AASHTO T-99.
- THE CONTRACTOR SHALL CLEAR AND GRUB ONLY WHERE GRADING OPERATIONS ARE TO BE PERFORMED AS SHOWN ON THE GRADING PLANS.
- OMIT
- CONTRACTOR SHALL DEFER TO THE SOUTHERN EARTH SCIENCES GEOTECHNICAL REPORT FOR REMOVING AND REPLACEMENT OF EXISTING SOIL MATERIALS. CONTRACTOR SHALL FOLLOW DIRECTION OF SOUTH EARTH SCIENCES REPRESENTATIVES AT SITE DURING EARTHWORK OPERATIONS.
- ALL UNCLASSIFIED QUANTITIES SHALL BE PAID AS PLAN QUANTITIES (NOT TRUCK TICKETS, ETC...)

REVISION	DATE	DRAWN BY:	LLI DATE:	06/01/2020

C1

SUMMARY OF QUANTITIES

Pay Item	Item Description	Unit	Quantity
201-A	Selected Clearing	Acre	2.35
205-A1	Existing Restroom Demolition	Each	1
205-A2	Remove Existing Boardwalk	SY	533
205-A3	Remove Playground Equipment	LS	1
205-A4	Remove Existing Shade Shelters	Each	8
206-C	Remove Existing Concrete Sidewalk	SY	315
210-A	Unclassified Elevation	CY	1250
210-D	Borrow Excavation	CY	1000
230-A	Road Bed Processing (Under asphalt and Crushed Aggregate)	SY	5181
301-A1	Crushed Aggregate, 6" Compacted Thickness (Park Road)	SY	3500
301-A2	Crushed Aggregate Stone Base Course(ALDOT Section 825, Type B) (6" Compacted Thickness to 100% AASHTO T-99) (to be placed in 2 equal layers) (12 inch total thickness)	SY	220
301-B	Existing Crushed Limestone to be Cleaned and Reused (Assume 4" thick)	SY	4500
401-A	Bituminous Treatment A	SY	220
405-A	Tack Coat	GAL	22
424-A	Superpave Bituminous Concrete Wearing Surface Layer, 1/2" Max. Agg. Size Mix, (ALDOT Section 424A-360 ESAL C/D)(1.5" Compacted Thickness 165lb/SY)	TON	19
424-B	Superpave Bituminous Concrete Binder Layer, 1" Max. Agg. Size Mix, (ALDOT Section 424B)(5.5" Compacted Thickness) (to be placed in 2 equal layers; 605 lb/sy)	TON	67
567-A1	6' Wide Elevated Boardwalk	LF	865
567-A2	Boardwalk Observation Structures	Each	2
567-A3	Crossover Boardwalk	LF	128
600-A	Mobilization	LS	1
604-A	Separation Geotextile	SY	4986
605-C	4" Schedule 80 PVC for Underdrain	LF	292
618-A1	4" Thick Concrete Sidewalk	SY	1875
618-A2	6" Thick Concrete Pavement	SY	186
619-A	ALDOT 18" Sidedrain Headwall	Each	2
623-B1	Ravel Curb	LF	2961
623-B2	12" Concrete Border Curb	LF	230
635-A	18" RCP Side Drain Pipe	LF	32
641-A1	2" SDR21 PVC Pipe	LF	517
641-A2	6" C900 PVC Watermain	LF	481
641-C	Ductile Iron Fittings	LB	158
641-D	Fire Hydrant	Each	1
645-A	2" San. Sewer Forcemain	LF	280
645-P	Relocate Existing Grinder Pump Lift Station	LS	1
650-B	Top Soil	CY	1075
654-A	Solid Sodding (Centipede)	SY	9685
660-D1	Tree Planting, Live Oak	Each	1
660-D2	Tree Planting, Medium Flowering1	Each	5
660-D3	Tree Planting, Medium Flowering 2	Each	12
660-D4	Tree Planting, Medium Flowing 3	Each	6
660-G	Fertilizer Tablet	Each	100
660-J1	Mulch, Soil Conditioner	Each	2
660-J2	Mulch, Surface Application	Each	2
661-C	Remove and Reset Trees	Each	18
665-J	Silt Fence	LF	5755
665-N	Temporary Course Aggregate ALDOT Number 4	Tons	50
665-O	Silt Fence Removal	LF	5755
680-A	Geometric Controls	LS	1
701-A	Yellow Striping	LF	50
703-A	Stop Bar Marking	SF	56
710-A	Stop Sign With Post	Each	1
750-Z	Lighting for Overall Site and includes all Electrical Runs	LS	1
792-A1	Park Entry Features Including Sign, Timber Wall, Sign, Painting Gate and Oysters in Gabion Basket	LS	1
792-A2	Play Feature - Broken Crows Nest & Ship Climber	Each	1
792-A3	Play Feature - Friendship Spinner	Each	1
792-A4	Play Feature - Crate Stepper	Each	1
792-A5	Play Feature - Fishing Boat	Each	1
792-A6	Play Feature - Swing	Each	1
792-A7	Play Feature - Sea Turtle	Each	1
792-A8	Play Surfacing & Base (Include Base and Drainage)	SF	5300
792-A9	Bench	Each	6
792-A10	Trash Receptable	Each	5
792-A11	Picnic Table	Each	9
792-A12	Vinyl Coated Chain Link Fence	LF	350
792-A13	Vinyl Coated Chain Link Single Gate	Each	2
792-A14	Vinyl Coated Chain Link Double Gate	Each	1
792-A15	Piling Wall	LF	70
792-A16	Replace Existing Shade Structures (8) and adding one	Each	9
792-A17	Playground Shade Structure	Each	1
792-A18	Recycled Rubber Parking Bumpers	Each	40
792-A19	Overlook Structure with walkover	LS	1
792-A20	New Restroom Office	LS	1



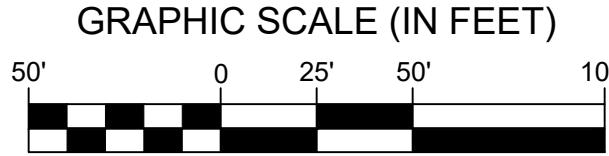
861 E. 46th Street, Suite 100
Mobile, Alabama 36606
TEL: (205) 471-2000
FAX: (205) 471-5897

MOBILE COUNTY, BAYFRONT PARK RESTORATION
AND IMPROVEMENTS

SUMMARY OF QUANTITIES
MOBILE, ALABAMA

DATE	REVISION	DRAWN BY:	LLI DATE:	JGC JOB NO.:

C1



GRAPHIC SCALE (IN FEET)

A horizontal scale bar with markings at 50', 0, 25', 50', and 10. The markings are evenly spaced along the bar.

(R)	RECORD BEARING OR DISTANCE
(A)	ACTUAL BEARING OR DISTANCE
CRF	CAPPED REBAR FOUND (ILLEGIBLE)
CTF	CRIMP TOP PIPE FOUND
RBF	5/8" REBAR FOUND
CRS	CAPPED REBAR SET
△ #5	SURVEY CONTROL POINT
P  LP	UTILITY POLE W/ANCHOR
LP	LIGHT POLE
HH	ELECTRICAL HAND HOLE
 FH	FIRE HYDRANT
 WV	WATER VALVE
 W	WATER METER

- WATER LINE MARKER
- FIBRE OPTICS MARKER
- COMMUNICATION VAULT
- TELEPHONE PEDESTAL
- SANITARY SEWER VAULT
- SANITARY SEWER CLEAN OUT
- SANITARY SEWER VALVE
- SANITARY SEWER LINE MARKER
- OVERHEAD UTILITIES
- UNDERGROUND ELECTRIC LINE
- UNDERGROUND COMMUNICATION
- WATER LINE
- SANITARY SEWER LINE
- STORM DRAIN PIPE

—/—/—/—/—/—/—/—	WOOD PRIVACY FENCE
—○—○—○—○—○—○—	CHAIN LINK FENCE
~~~~~	TREE LINE
~~~~~	MARSH LINE
—————	RIP RAP
 "STOP"	SIGN
BBQ	BAR-B-QUE GRILL
 SB	SOIL BORING
	WETLAND DELINEATION FLAG
— WET — WET — WET —	WETLAND BOUNDARY LINE
—————	EDGE OF WATER/SHORE LINE
—————	EDGE OF MARSH/TIDAL WATER

- EXIST. WETLAND
- EXIST. MARSH
- DEMOLITION
- STANDING WATER
- EXIST. RIP RAP
- EXISTING CRUSHED LIMESTONE ROAD
BE RE-USED OR

** LOCATION OF EXISTING CREPE MYRTLES & OLEANDERS ARE APPROXIMATE.

(NOT FOR CONSTRUCTION)

MOBILE COUNTY, BAYFRONT PARK RESTORATION AND IMPROVEMENTS EXISTING CONDITIONS - DEMOLITION PLAN

NEEL-SCHAFFER

Solutions you can build upon

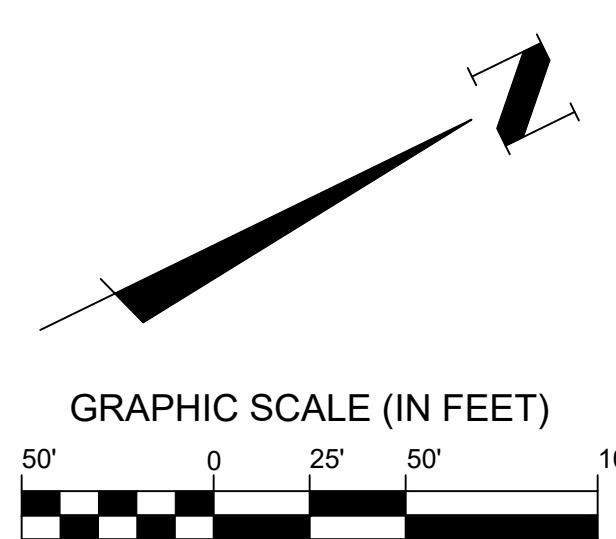
351 E. I-65 Service Road South, Suite 1000
Mobile, Alabama 36606
TEL. (251) 471-2000
FAX (251) 471-5997

OBII E ALABAMA

REVISION						
DATE						
AWN BY:	L.L.	DATE:	05/01/2020			
EECKED BY:	J.G.C.	JOB NO.:	14805			

C2

LEGEND



GRAPHIC SCALE (IN FEET)

1

EXIST. WETLAND

1

PROPOSED CONCRETE WA

1

EXIST. MARS

1

PROPOSED ELEVATED WALL

1

STANDING WATER

1

PROPOSED AGGREGATE ROADWAY/PARKING

NOTES:

1. SIDEWALK TO BE FIELD LOCATED TO AVOID TREES.
2. SEE SHEET L6 FOR TREE RELOCATION PLAN.
3. THE LEGAL PERMIT APPLICANT IS HELD RESPONSIBLE AND LIABLE FOR ALL DAMAGES, ACTIONS, OR RESPONSIBILITIES OF THEIR APPOINTED CONTRACTORS, ASSIGNS, OR APPOINTEES.
4. ALL DRAINAGE ONSITE WILL BE ROUTED TO MOBILE BAY. NO DRAINAGE WILL BE ROUTED TO STATE ROUTE 193 RIGHT-OF-WAY.

(NOT FOR CONSTRUCTION)

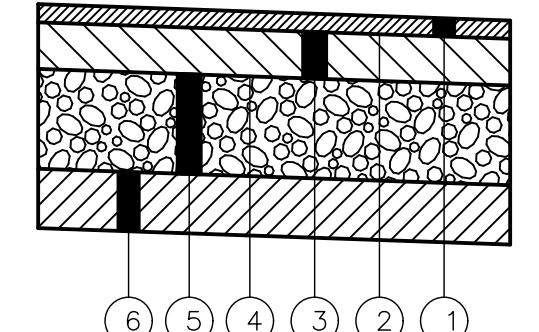
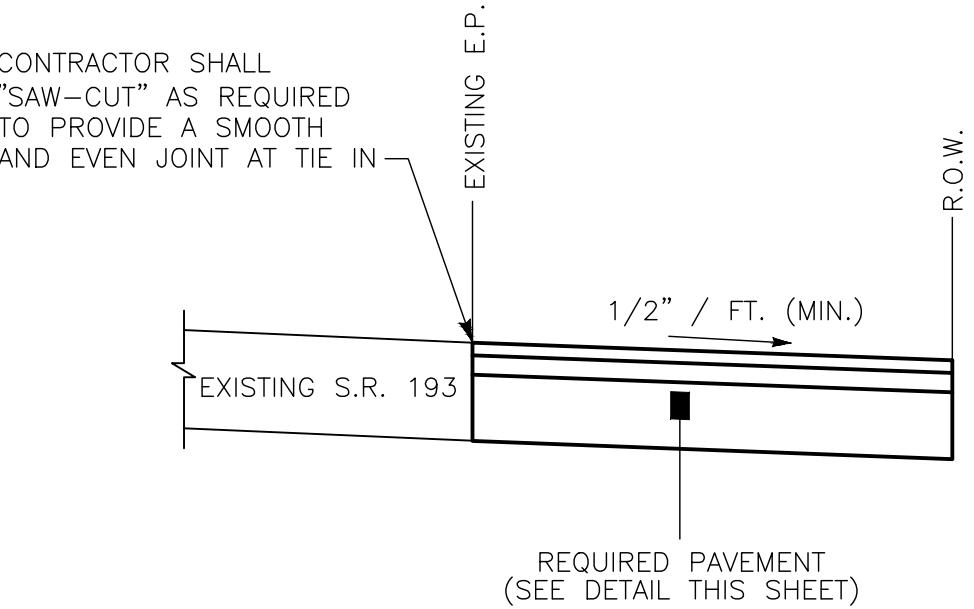
MOBILE COUNTY, BAYFRONI PARK RESTORATION AND IMPROVEMENTS

1

**NOT FOR CONSTRUCTION
MOBILE COUNTY, BAYFRONT PARK RESTORATION
AND IMPROVEMENTS**

ALDOT PERMIT PLAN

REVISION: _____
DATE: _____
DRAWN BY: _____
L.I. DATE: 05/01/2020
CHECKED BY: _____
C3.1



- ① REQ'D: SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, (ALDOT SECTION 424A-360 ESAL C/D) (1.5" COMPACTED THICKNESS- 165 LB/SY)
- ② REQ'D: TACK COAT (ALDOT SECTION 405A) (0.10 GAL/SY)
- ③ REQ'D: SUPERPAVE BITUMINOUS BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, (ALDOT SECTION 424B) (5.5" COMPACTED THICKNESS) (TO BE PLACED IN TWO EQUAL LAYERS - 605 LB/SY)
- ④ REQ'D: BITUMINOUS TREATMENT "A" (ALDOT SECTION 401A)
- ⑤ REQ'D: CRUSHED AGGREGATE STONE BASE COURSE (ALDOT SECTION 825, TYPE B) (12" COMPACTED THICKNESS TO 100% AASHTO T-99) (TO BE PLACED IN TWO 6" LAYERS)
- ⑥ REQ'D: SUBGRADE (ROADBED PROCESSED, COMPACTED TO 98% AASHTO T-99) (6" MIN. THICKNESS) (MIN. CBR 10)

NOT TO SCALE

NOTE: ONLY USE IF EXISTING DRIVE IS DAMAGED DURING DEMOLITION.

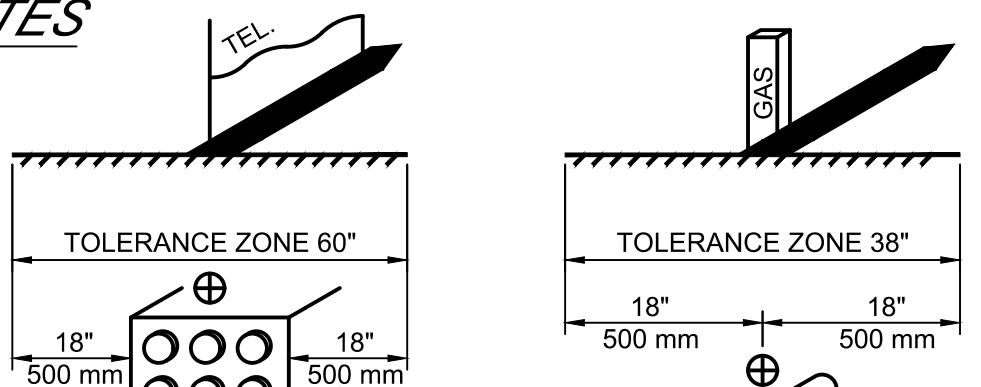
*** DRIVEWAY ASPHALT BUILDUP ON R.O.W.
NOT TO SCALE**

EXISTING UTILITY NOTES

FOR MARKING UNDERGROUND UTILITY LINES
APWA UNIFORM COLOR CODE

WHITE - Proposed excavation
PINK - Temporary survey markings
RED - Electrical Lines, Cables, and Lighting Cables
YELLOW - Gas, Oil, Steam, Petroleum or Gaseous Materials
BLUE - Water
PURPLE - Reclaimed Water, Irrigation and Slurry Lines
GREEN - Sewers and Drain Lines

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



ALDOT PERMIT ADDRESS

MOBILE COUNTY
205 GOVERNMENT STREET
MOBILE, AL 36644

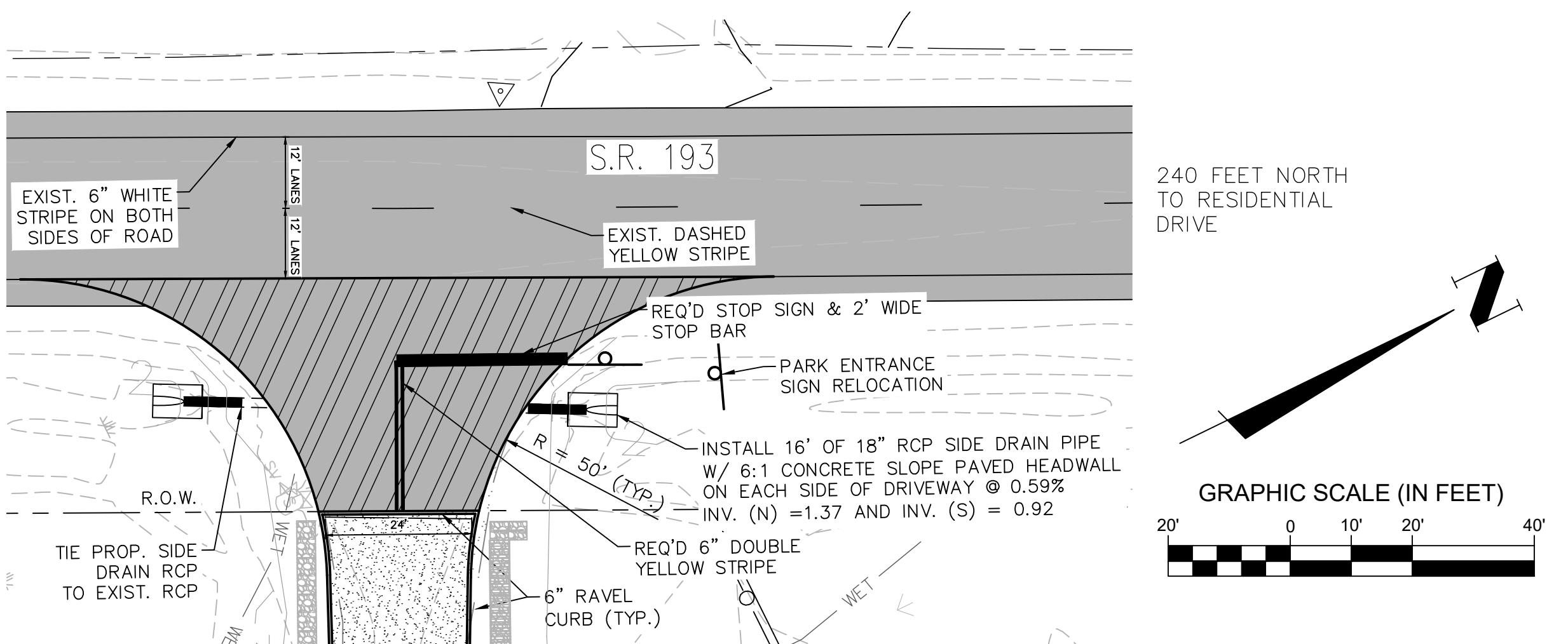
SITE ADDRESS

16057 WILCOX ROAD
MOBILE COUNTY ALABAMA

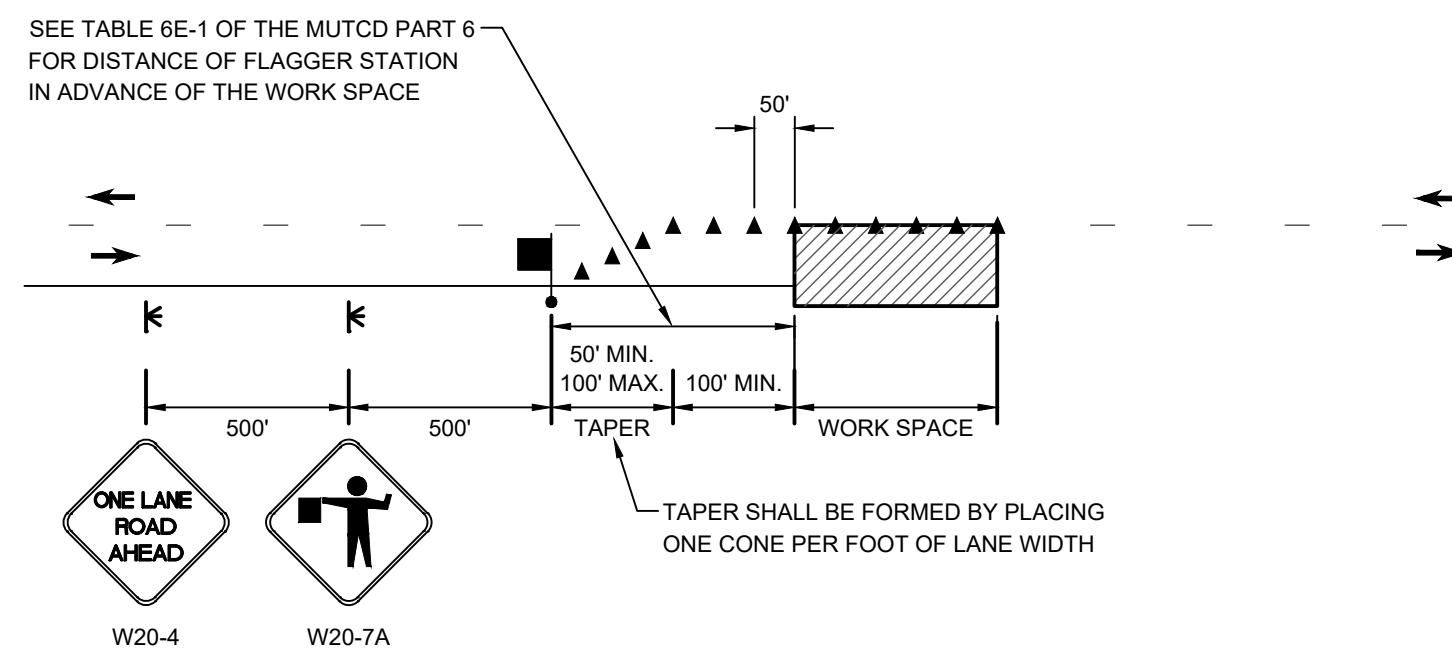
LEGEND



OVER A MILE
SOUTH TO NEXT
DRIVE



NOTE: PLEASE REFER TO ALDOT STANDARD DETAIL HW-614-SP (INDEX 415) FOR DETAIL OF 6:1 FOR CONCRETE SLOPE PAVED HEADWALL FOR SIDE DRAIN PIPE.



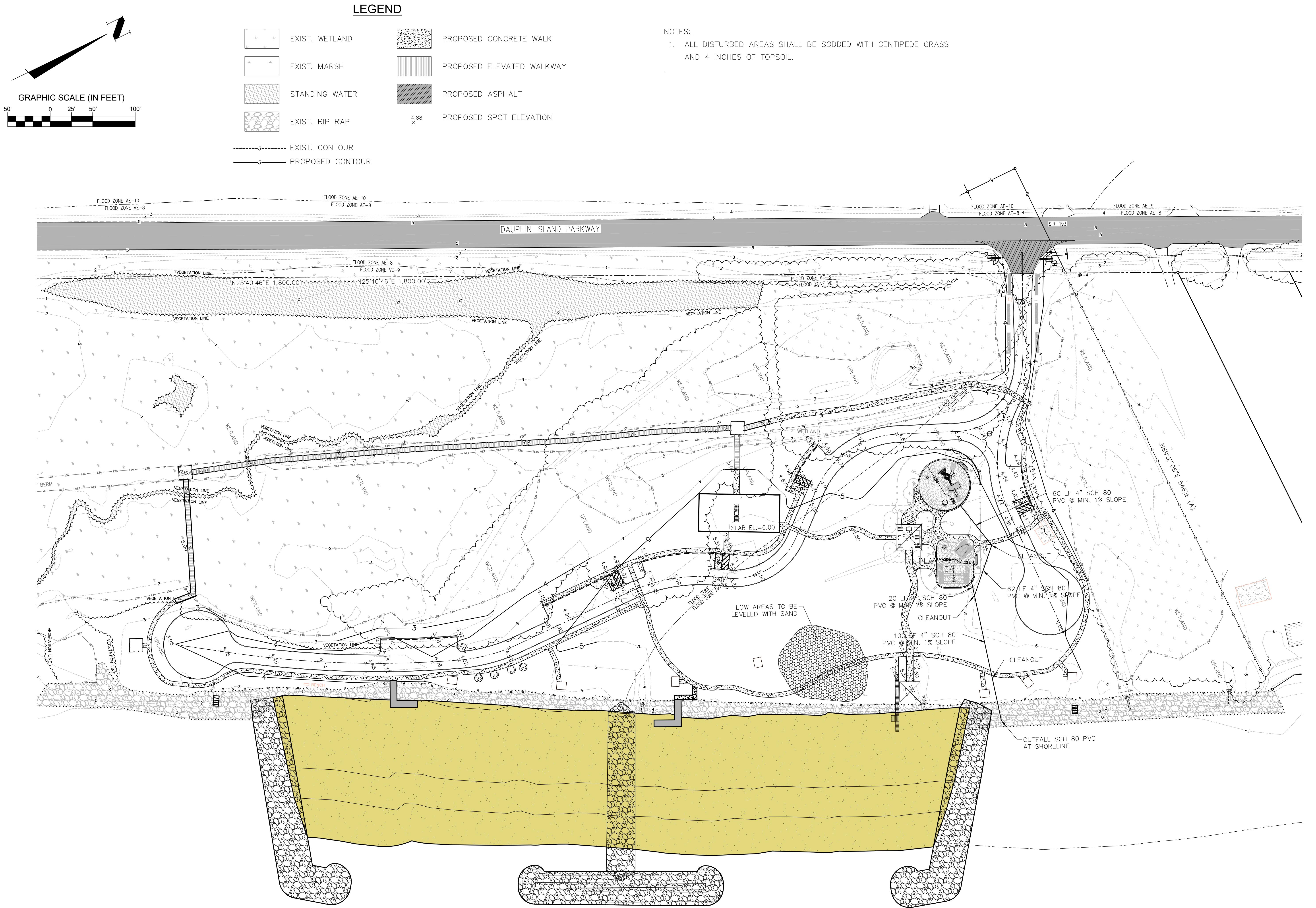
TCP GENERAL NOTES:

1. ALL ADVANCE WARNING SIGNS REQUIRED AT THE BEGINNING AND END OF PROJECT SHALL BE POST MOUNTED. ALL SIGNS REQUIRED FOR THE LANE CLOSURE SHALL BE TEMPORARY MOUNTED.
2. THE W3-5 SIGN SHALL SHOW THE LOWEST SPEED POSTED IN THE WORK ZONE (XX). SIGN (YY) SHALL BE USED IF SPEED REDUCTION REQUIRES TWO SIGNS. SIGN (ZZ) SHALL SHOW THE POSTED SPEED OUTSIDE THE WORK ZONE.
3. SPEED REDUCTION SIGNS TYPICALLY REFER TO HIGH SPEED HIGHWAY PROJECTS. THE MUTCD SHALL BE REFERENCED FOR THEIR USE.
4. ROAD WORK AHEAD SIGNS SHALL BE POST MOUNTED ON ALL SIDE STREETS THAT FALL WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE PROJECT.
5. LENGTH BETWEEN SIGNS SHALL VARY BASED ON MUTCD AND DESIGN SPEED. THE CONTRACTOR SHALL MODIFY AS PER MUTCD WHEN NECESSARY BASED ON LOCATION OF ROAD WORK.
6. SOME TRAFFIC CONTROL DETAILS HAVE BEEN PROVIDED FOR GENERAL USE; HOWEVER, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW THE MUTCD, LATEST EDITION FOR ALL TRAFFIC CONTROL NEEDS DURING CONSTRUCTION.
7. DURING TEMPORARY ROAD CLOSURES WHICH WILL OCCUR DURING THIS PROJECT THE CONTRACTOR SHALL NOTIFY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND THE OWNER'S REPRESENTATIVE ONE (1) WEEK IN ADVANCE, SO THE DETOURS CAN BE APPROVED AND DIGITAL MESSAGE BOARDS THROUGHOUT THE CITY CAN NOTIFY THE PUBLIC. THE CONTRACTOR WILL ALSO BE REQUIRED TO ADVERTISE IN THE LOCAL NEWSPAPER ONE (1) WEEK IN ADVANCE OF THE ROAD CLOSURE.
8. ALTHOUGH PERIODIC ROAD CLOSURES WILL BE REQUIRED DURING THIS PROJECT, THE CONTRACTOR SHALL KEEP ACCESS FOR LOCAL TRAFFIC TO PRIVATE RESIDENCES AND COMMERCIAL BUSINESSES AT ALL TIMES.
9. LANE CLOSURES SHALL BE LIMITED TO THE HOURS OF 9 AM TO 3 PM MONDAY THROUGH FRIDAY UNLESS DIRECTED BY ALDOT OTHERWISE.

**TWO LANE HIGHWAY, ONE LANE CLOSURE
NOT TO SCALE**

ALDOT GENERAL NOTES:

1. ALL METERS SHALL BE INSTALLED OFF OF ALDOT RIGHT-OF-WAY.
2. ALL MANHOLES, VALVE BOXES, AND HAND HOLES SHOULD BE FLUSH WITH EXISTING GROUND.
3. APPLICANT SHALL CONTACT THE DISTRICT ADMINISTRATOR 48 HOURS PRIOR TO BEGINNING WORK ON ALDOT RIGHT-OF-WAY: MOBILE COUNTY DISTRICT ADMINISTRATOR- MR. FRANKIE SMITH, (251) 470-8322.
4. THE ENGINEER OF RECORD SHALL PROMPTLY WRITE A LETTER TO THE DISTRICT ADMINISTRATOR REQUESTING AN INSPECTION UPON COMPLETION OF THE PERMITTED WORK. ANY PUNCH LIST ITEMS SHALL BE COMPLETED PRIOR TO PROVISIONAL ACCEPTANCE OF WORK.
5. BONDS SUBMITTED FOR PERMITS SHALL BE HELD FOR A ONE YEAR MAINTENANCE PERIOD WHICH BEGINS ON THE PROVISIONAL ACCEPTANCE DATE ISSUED BY THE DEPARTMENT. DURING THIS TIME ANY FAILURES, DEFICIENCIES, OR MAINTENANCE CARE SHALL BE THE RESPONSIBILITY OF THE APPLICANT. AT THE END OF THE MAINTENANCE PERIOD THE APPLICANT OR ENGINEER OF RECORD SHALL SUBMIT A BOND RELEASE REQUEST LETTER TO THE DISTRICT ADMINISTRATOR, BONDS ARE NOT RELEASED WITHOUT REQUEST.
6. ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH PART 6 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) 2009 EDITION. (IF PROJECT NECESSITATES LANE CLOSURE, LANE CLOSURE MUST BE MADE PART OF THE PERMIT.)
7. ONSITE REPRESENTATIVES & CONTACT INFORMATION:
8. ONSITE REPRESENTATIVES WILL HAVE ON HAND, AT ALL TIMES:
 - A. APPROVED PERMIT AND PLANS STAMPED BY THE REGION ENGINEER.
 - B. TRAFFIC CONTROL PLANS
 - C. EROSION CONTROL PLANS.
9. ALL DISTURBED AREAS ON ROW SHALL RECEIVE 4" OF TOPSOIL AND BE SODDED OR SEEDED AS DIRECTED BY THE DEPARTMENT.
10. ALL WORK ON THE ROW WILL BE IN CONFORMANCE WITH THE LATEST EDITION OF ALDOT STANDARD SPECIFICATIONS.
11. ELECTRIC POWER AND COMMUNICATION FACILITIES WILL CONFORM TO THE CURRENT APPLICABLE NATIONAL ELECTRICAL SAFETY CODE.
12. A BEST MANAGEMENT PLAN SHALL AT MINIMUM RETURN ALL EXPOSED AREAS TO ORIGINAL OR BETTER CONDITION AND REQUIRE STAND OF GRASS AND/OR SOD BEFORE ACCEPTANCE. SILT FENCE AND ANY OTHER EROSION CONTROL ITEMS NEEDED SHALL BE USED TO PREVENT EROSION (NO HAYBALES ARE ALLOWED IN ROW).
13. ALL TREES OVER 4" DBH SHALL NOT BE CUT/REMOVED WITHOUT WRITTEN PERMISSION FROM ALDOT.
14. ABSOLUTELY NO BORE PITS SHALL BE ALLOWED TO BE UNFILLED AND/OR UNCOVERED OVERNIGHT UNLESS PROTECTED (BORE PITS HAVE A MAXIMUM OF 72 HOURS TO BE OPEN BEFORE FILLED).
15. UPON COMPLETION & ANY TIME THEREAFTER, ALDOT RETAINS THE RIGHT TO REQUEST AN AS-BUILT PLAN OF ANY PERMITTED WORK IN DEPARTMENT'S RIGHT-OF-WAY (ROW).
16. WARNING: DO NOT DISTURB SURVEY MARKERS LOCATED ON ALDOT RIGHT-OF-WAY. ANY PROPERTY MARKERS DISTURBED DURING CONSTRUCTION SHALL BE RE-ESTABLISHED BY AN ALABAMA LICENSED PROFESSIONAL LAND SURVEYOR AT THE EXPENSE OF THE PERMIT APPLICANT.
17. THE TOTAL AREA TO BE DISTURBED DURING CONSTRUCTION OF THIS PERMIT: 12.72± ACRES. (ON AND OFF ROW COMBINED)
18. WATER LINES SHALL CONFORM TO THE CURRENTLY APPLICABLE STANDARDS OF THE AMERICAN WATER WORKS ASSOCIATION.
19. PRESSURE PIPE LINES SHALL CONFORM TO THE CURRENTLY APPLICABLE SECTIONS OF AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI).
20. AS REQUIRED BY ALABAMA ACT 94-487: CALL TWO WORKING DAYS BEFORE EXCAVATION 1-800-292-8525, ALABAMA LINE LOCATION CENTER, INC.
21. ALL EXISTING UTILITY FACILITIES IN THE PROPOSED WORK AREA SHALL BE PHYSICALLY LOCATED BOTH HORIZONTALLY AND VERTICALLY.
 - A. THE UTILITY FACILITIES IN THE AREA OF WORK ARE REPRESENTED TO THE BEST OF MY KNOWLEDGE, ACCORDING TO LOCATES PROVIDED BY 811 AND INDIVIDUAL DUE DILIGENCE. ENGINEER'S INITIALS: JGC
 - B. 811 LOCATE REQUEST # 191900039



(NOT FOR CONSTRUCTION)

GRADING PLAN MOBILE COUNTY, BIRMINGHAM AND IMPROVEMENTS

App

I, BAIRUNI FAKK K
MENTS

EIN-SCHAFFEE

Solutions you can build up

Mobile, Alabama 36606
FEL. (251) 471-2000
AX (251) 471-5997

WIN BY:	L.L.	DATE:	05/01/2020
CHECKED BY:	JGC	JOB NO.:	14805

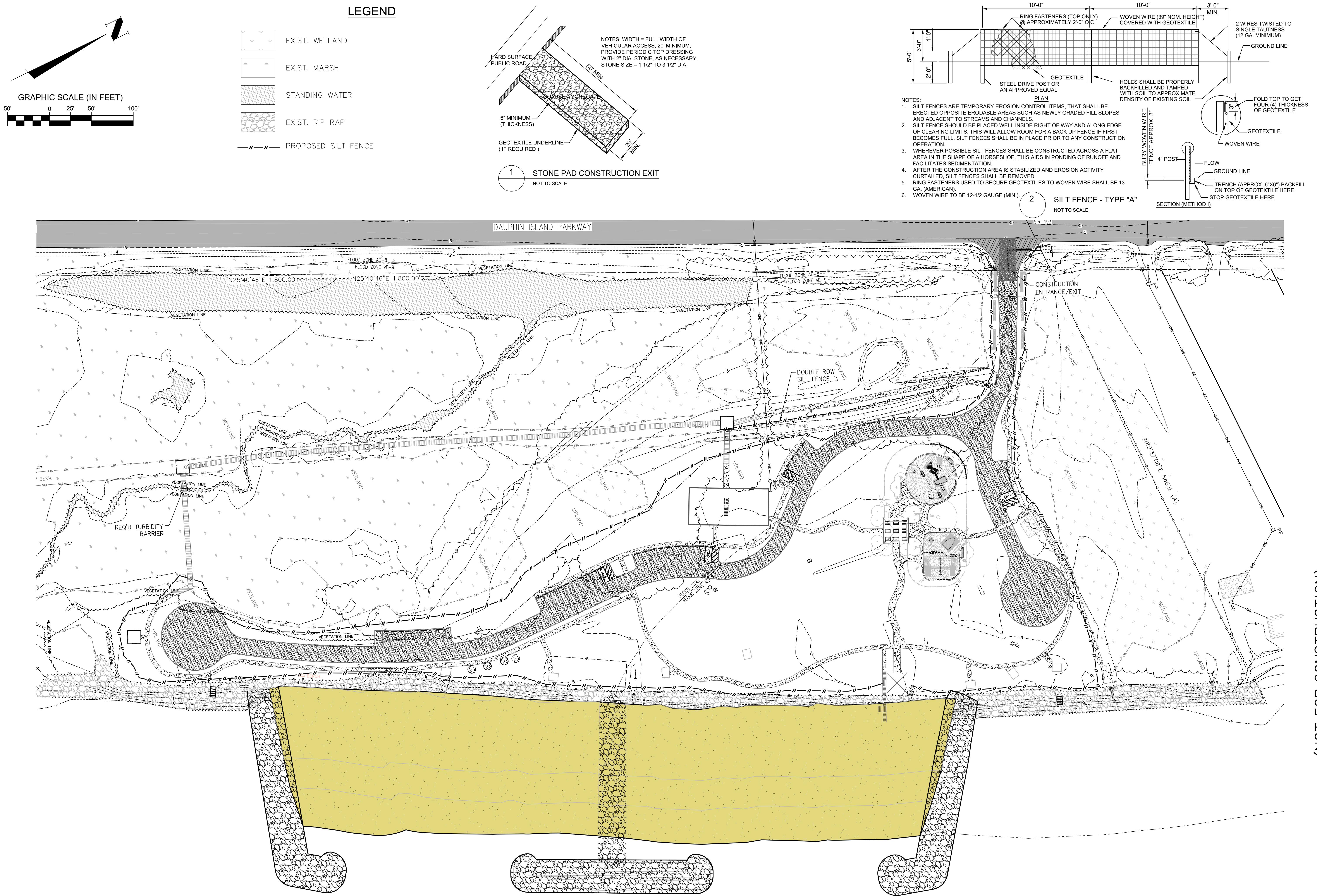
1000

PLOT INFORMATION:
April 30, 2020
11:28 AM

MOBILE COUNTY, BAYFRONT PARK RESTORATION
AND IMPROVEMENTS
MOBILE, ALABAMA

(NOT FOR CONSTRUCTION)

REVISION	LLI DATE:	05/01/2020
DATE:	DRAWN BY:	JOCO JOB NO.:
C6		

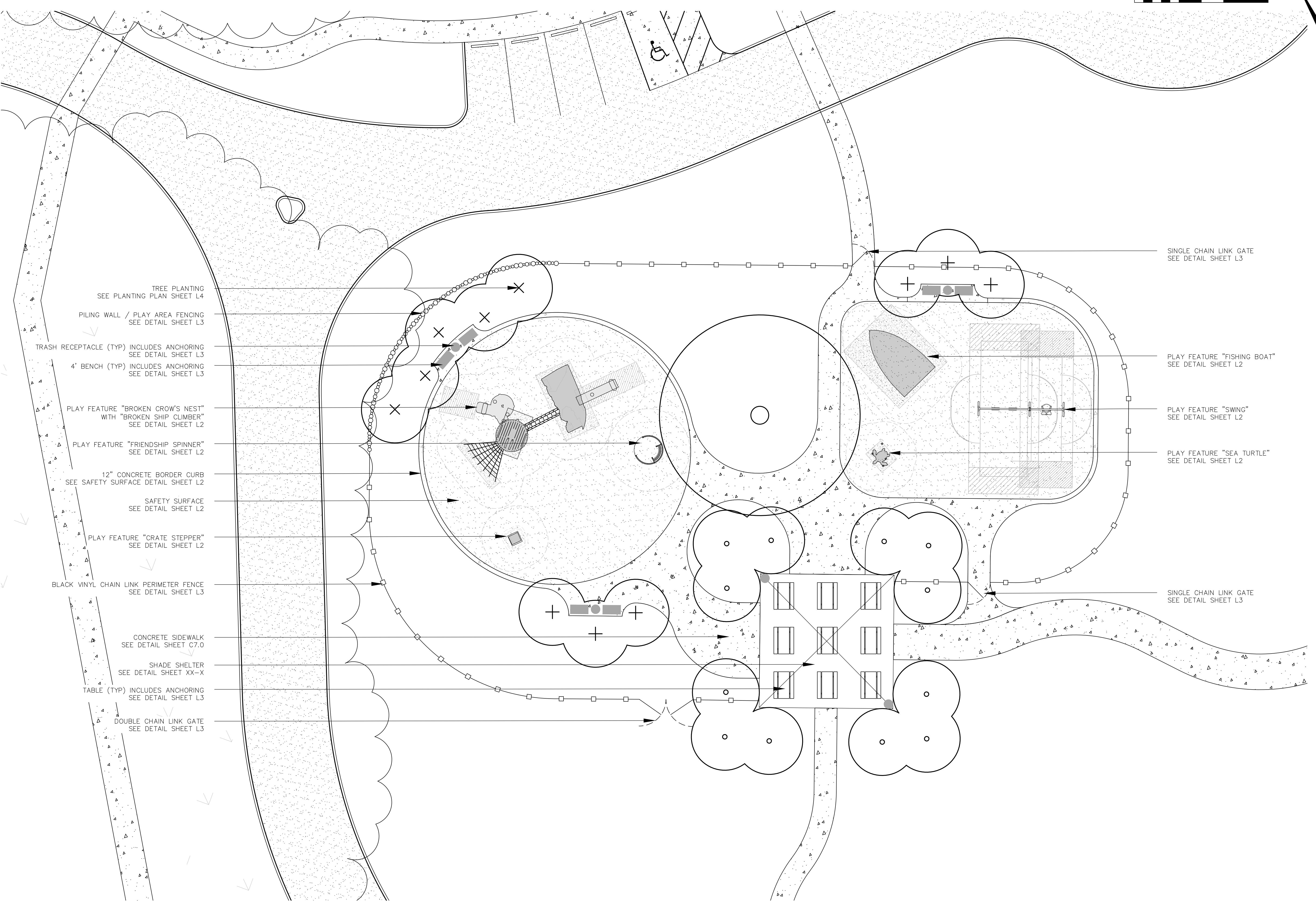
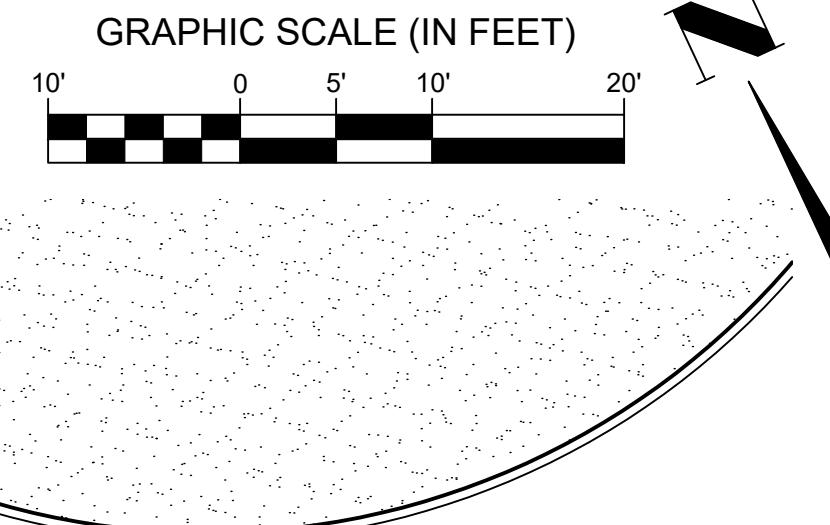


MOBILE COUNTY, BAYFRONT PARK RESTORATION
AND IMPROVEMENTS

PLAY AREA PLAN

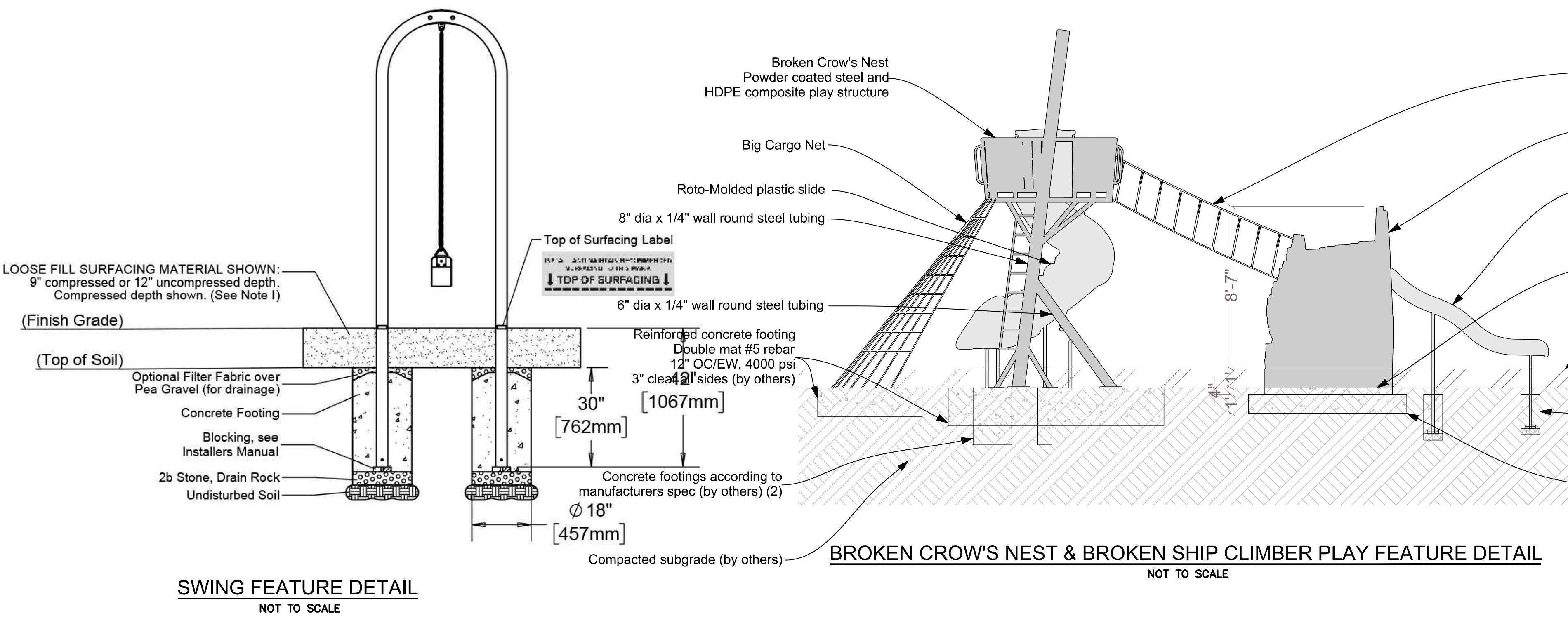
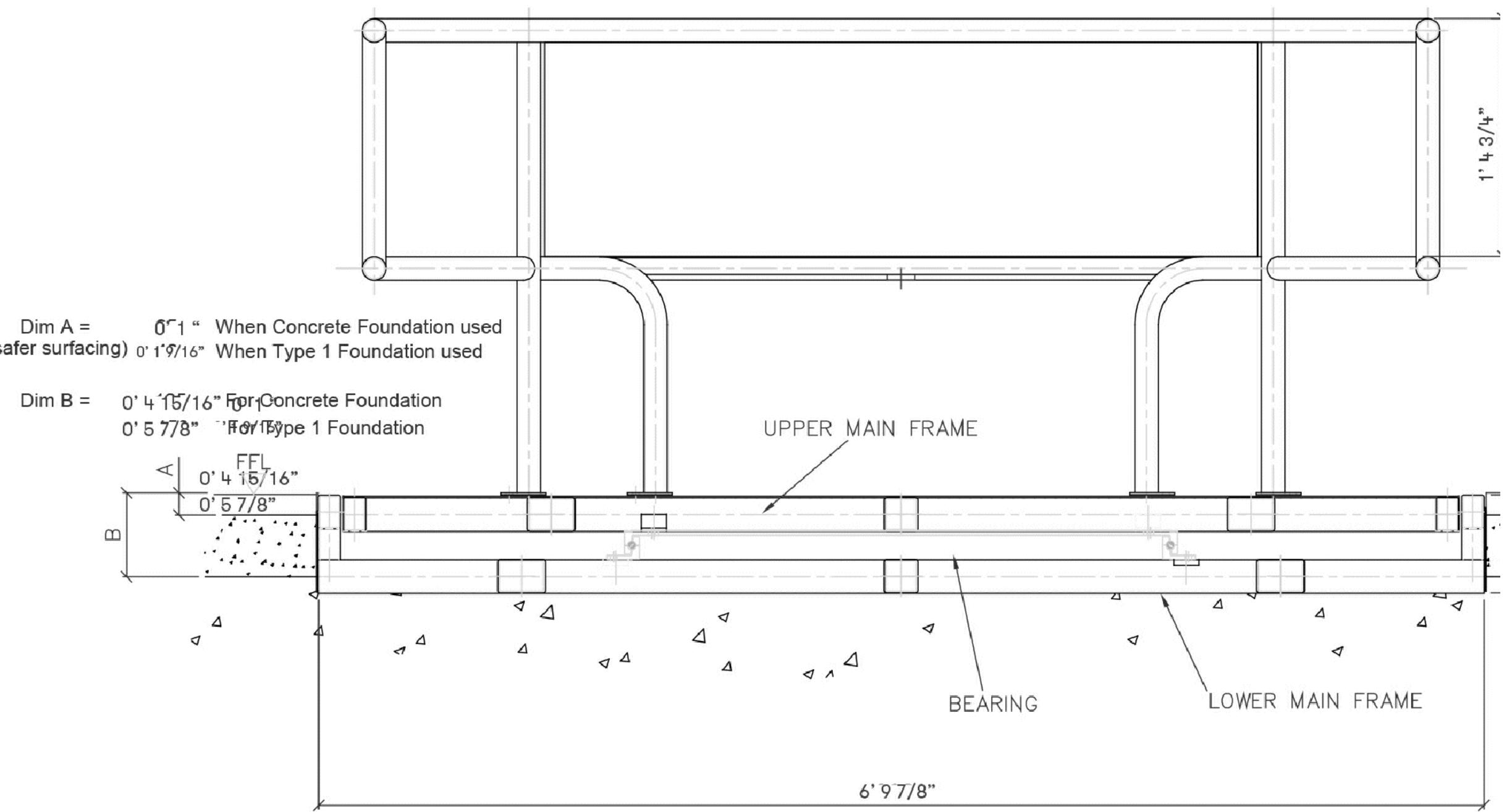
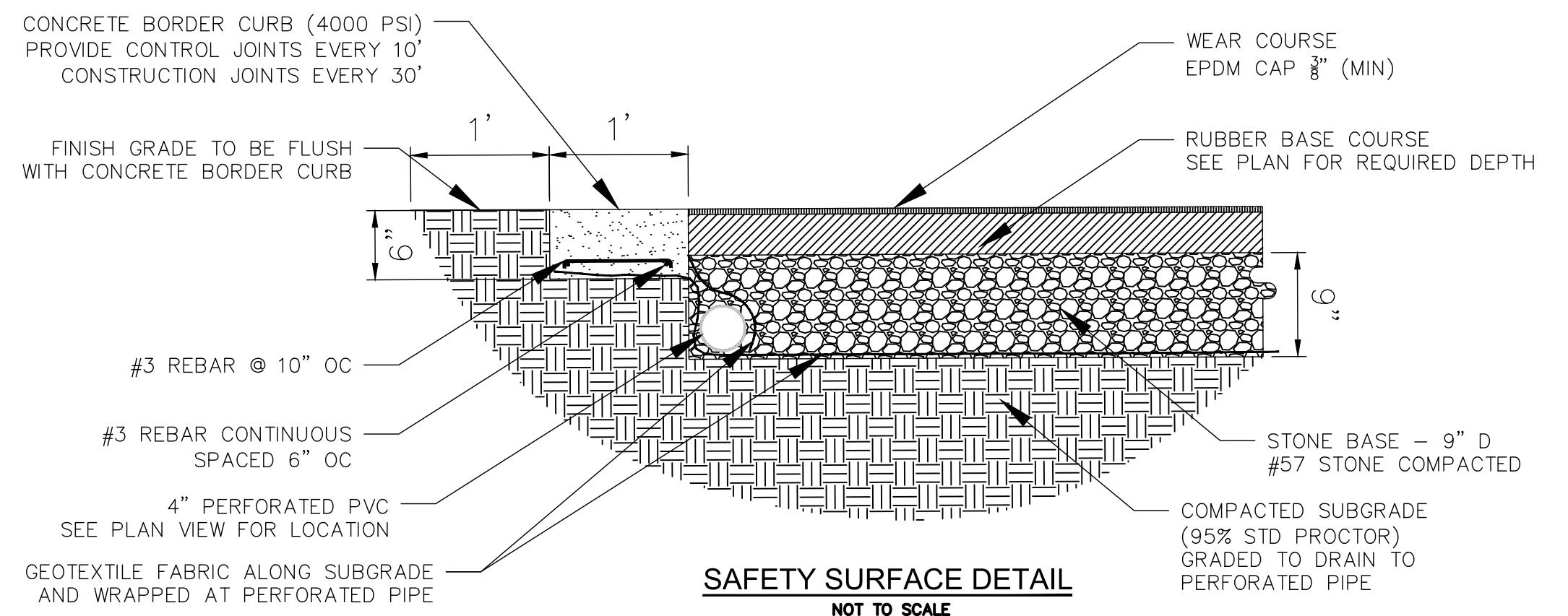
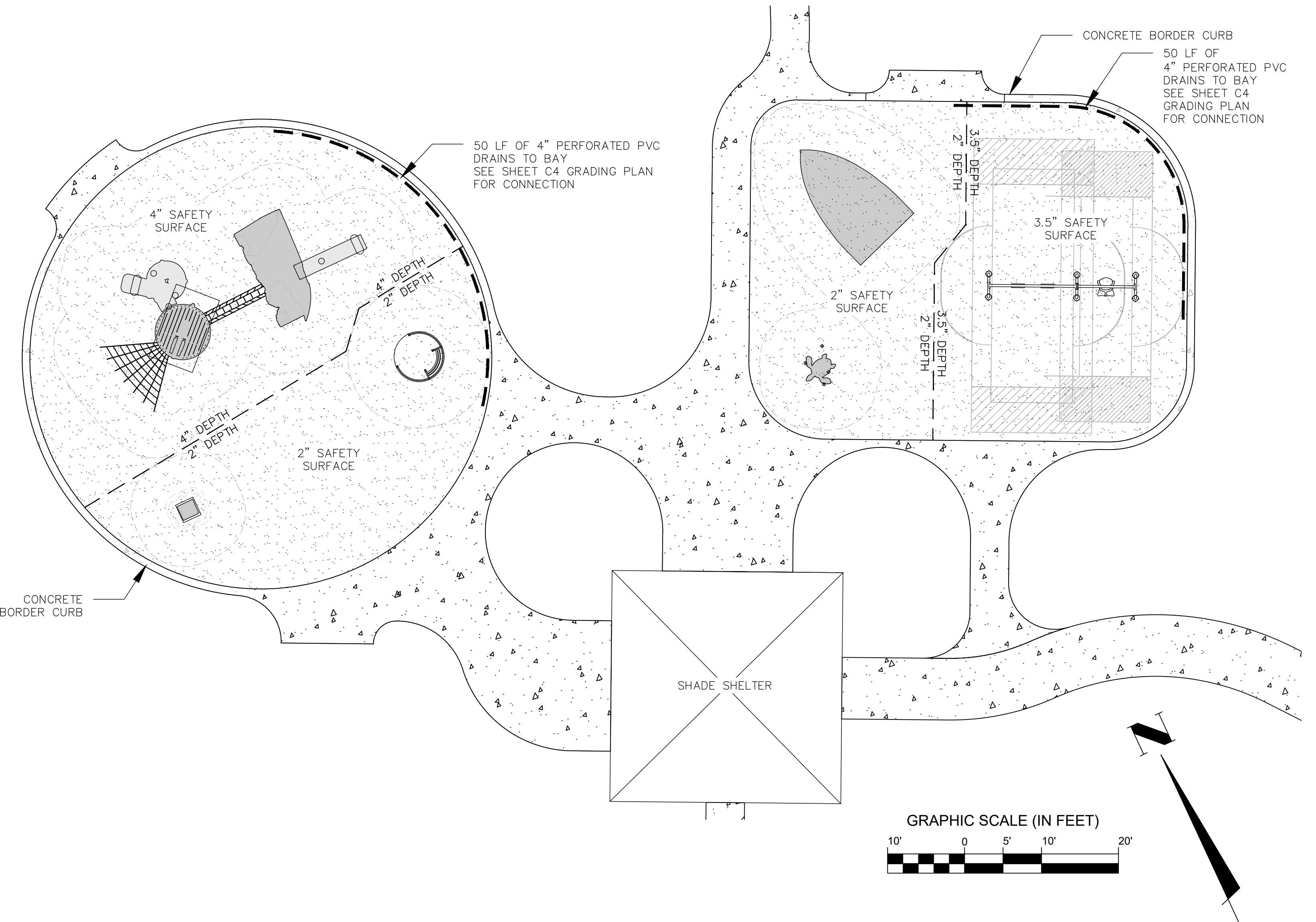
DATE	REVISION
05/07/2020	
DRAWN BY:	JGC JOB NO.: 14305
CHECKED BY:	

1



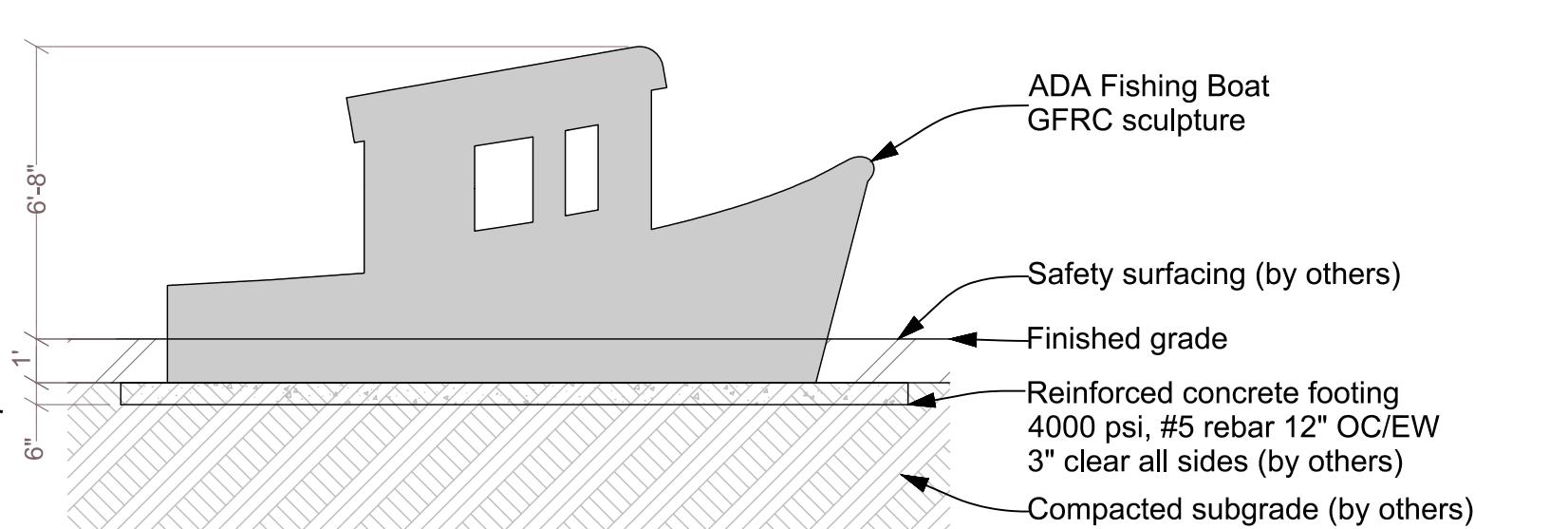
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DATE	JGC JOB NO.	14305
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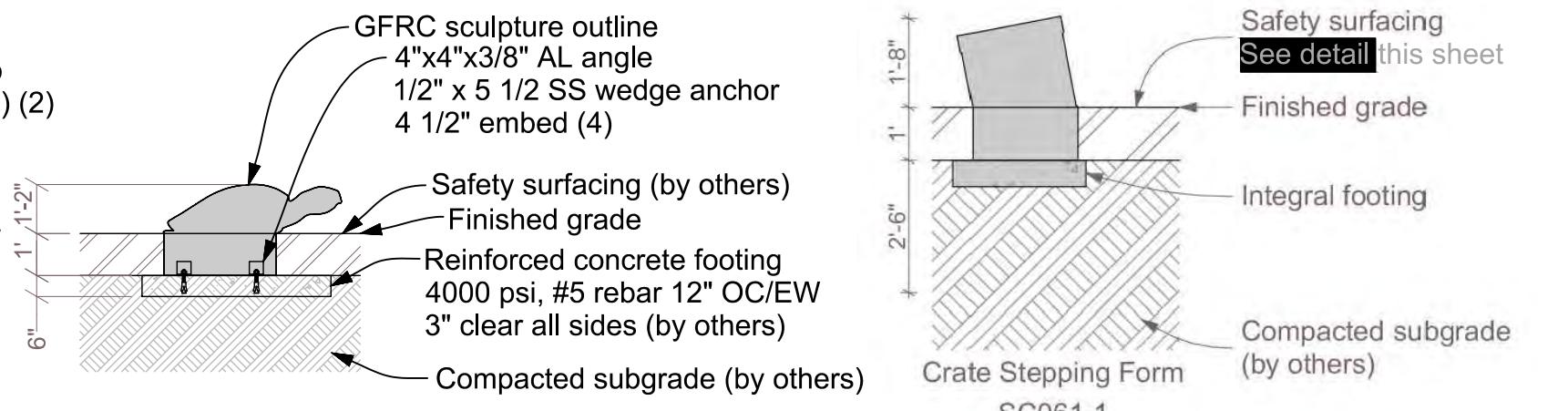


BROKEN CROW'S NEST & BROKEN SHIP CLIMBER PLAY FEATURE DETAIL
NOT TO SCALE

FRIENDSHIP SPINNER FEATURE DETAIL
NOT TO SCALE



FISHING BOAT PLAY FEATURE DETAIL
NOT TO SCALE

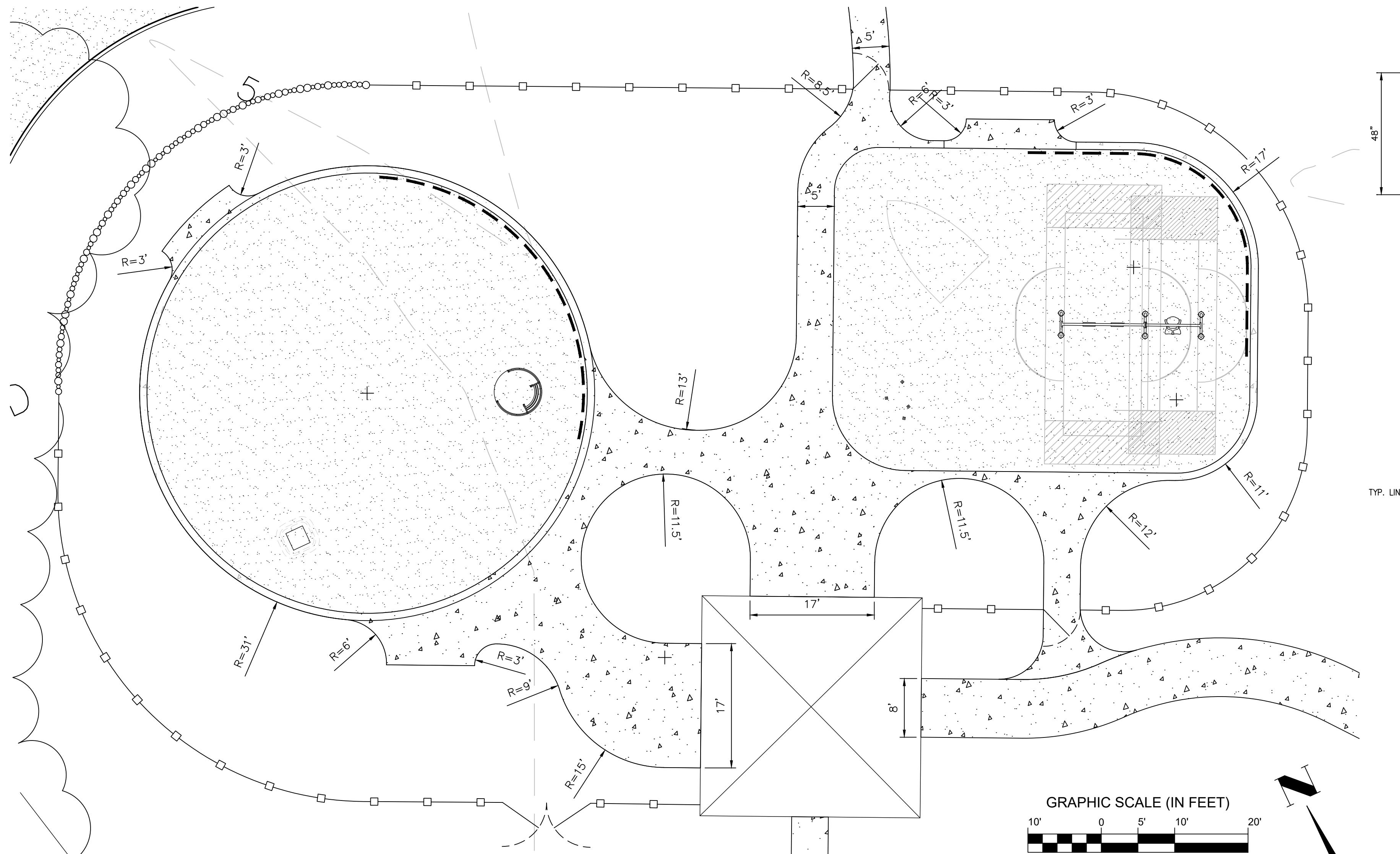


SEA TURTLE FEATURE DETAIL
NOT TO SCALE

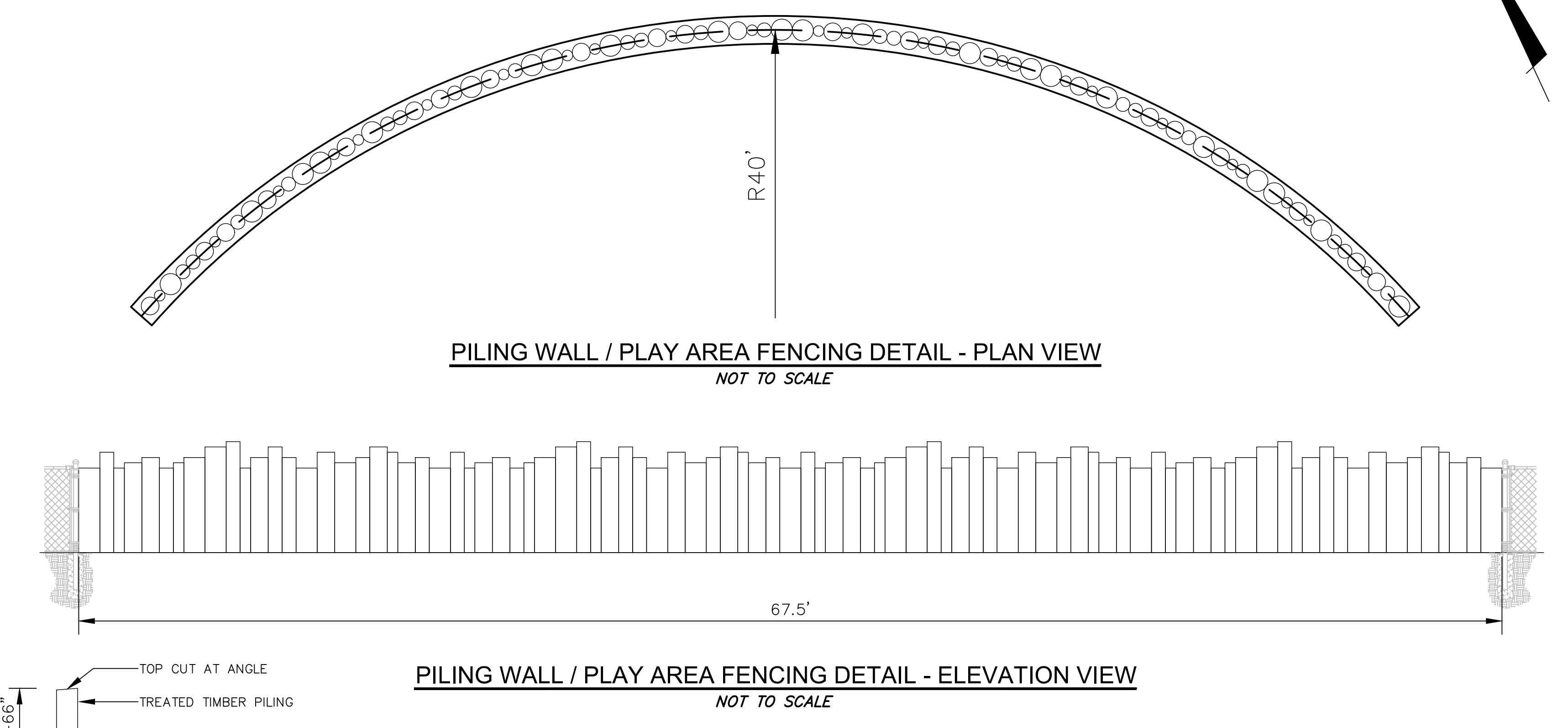
CRATE STEPPER FEATURE DETAIL
NOT TO SCALE

DATE	REVISION
DRAWN BY: JLG	LLI DATE: 05/01/2020
CHECKED BY: JLG	JOB NO.: 14305

3



PILING WALL / PLAY AREA FENCING DETAIL - PLAN VIEW
NOT TO SCALE

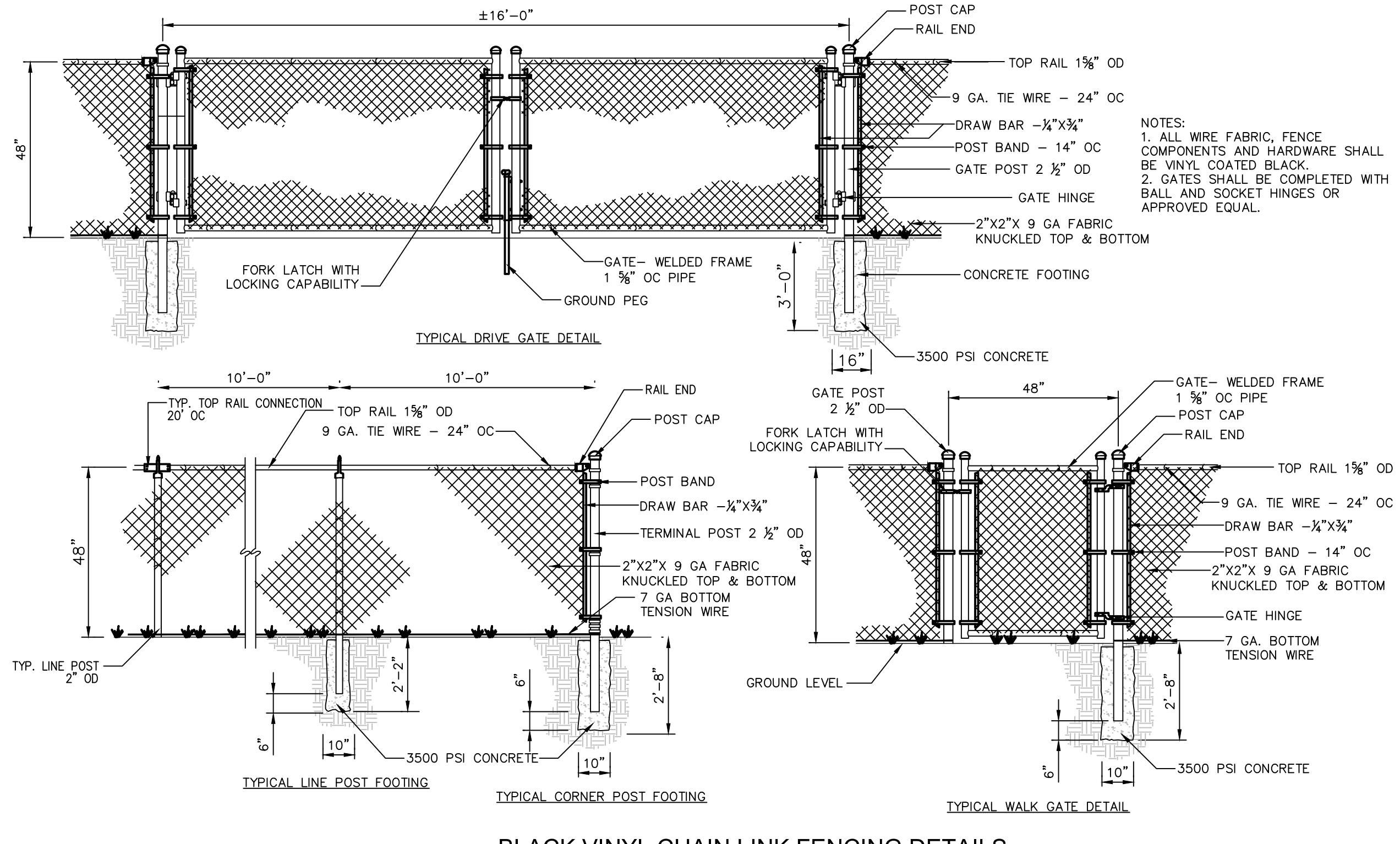


PILING WALL / PLAY AREA FENCING DETAIL - ELEVATION VIEW
NOT TO SCALE

NOTES:

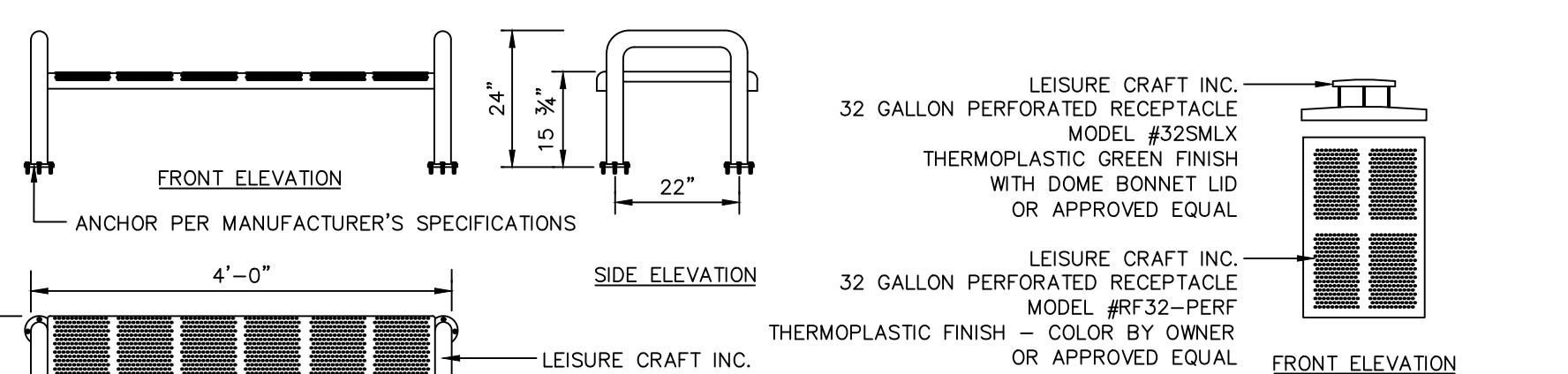
1. PILING WALL SHALL BE A RANDOM COMBINATION OF 6" D, 8" D, 10" D AND 12" D RECYCLED TREATED PILING.
2. PILING HEIGHT SHALL BE A RANDOM COMBINATION OF 48" (MIN) - 66" (MAX).

PILING INSTALLATION DETAIL
NOT TO SCALE



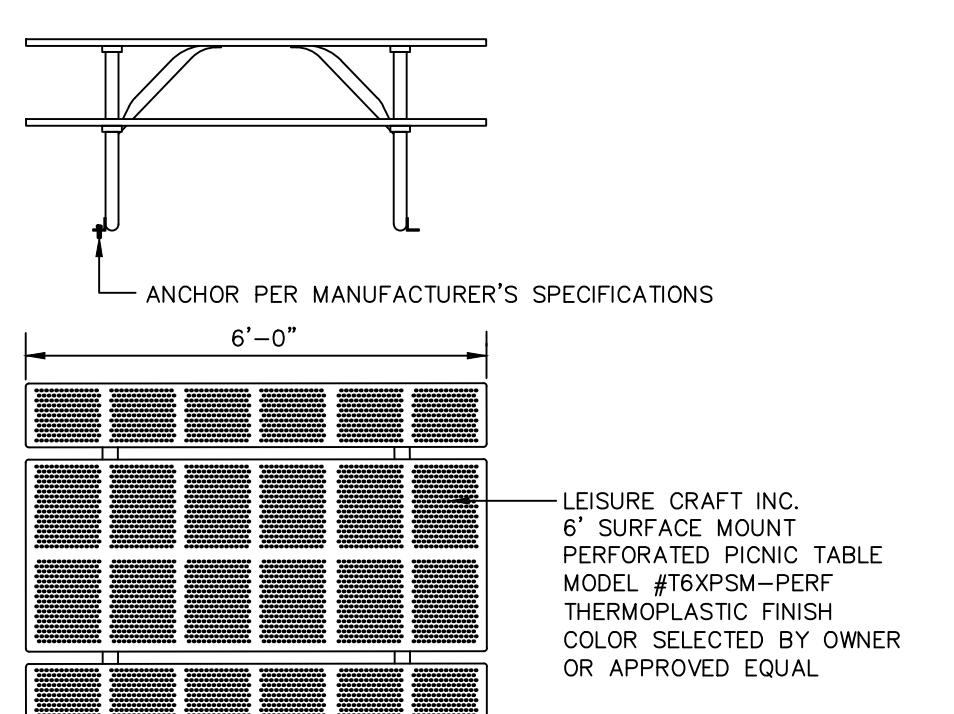
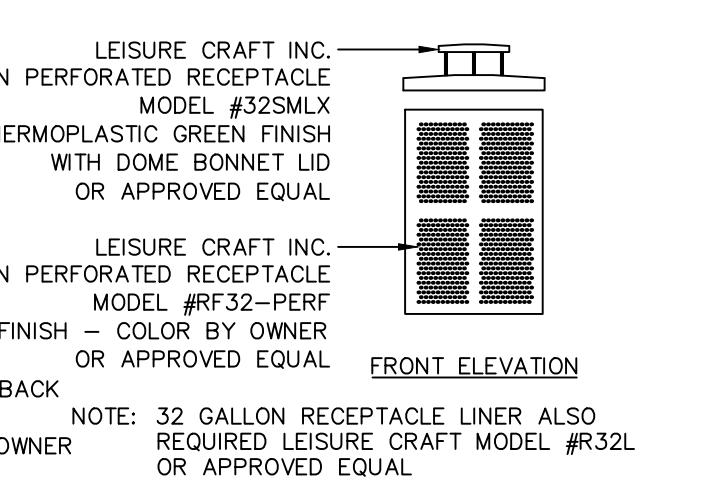
BLACK VINYL CHAIN LINK FENCING DETAILS

NOT TO SCALE



BENCH DETAIL
NOT TO SCALE

TRASH RECEPTACLE DETAIL
NOT TO SCALE

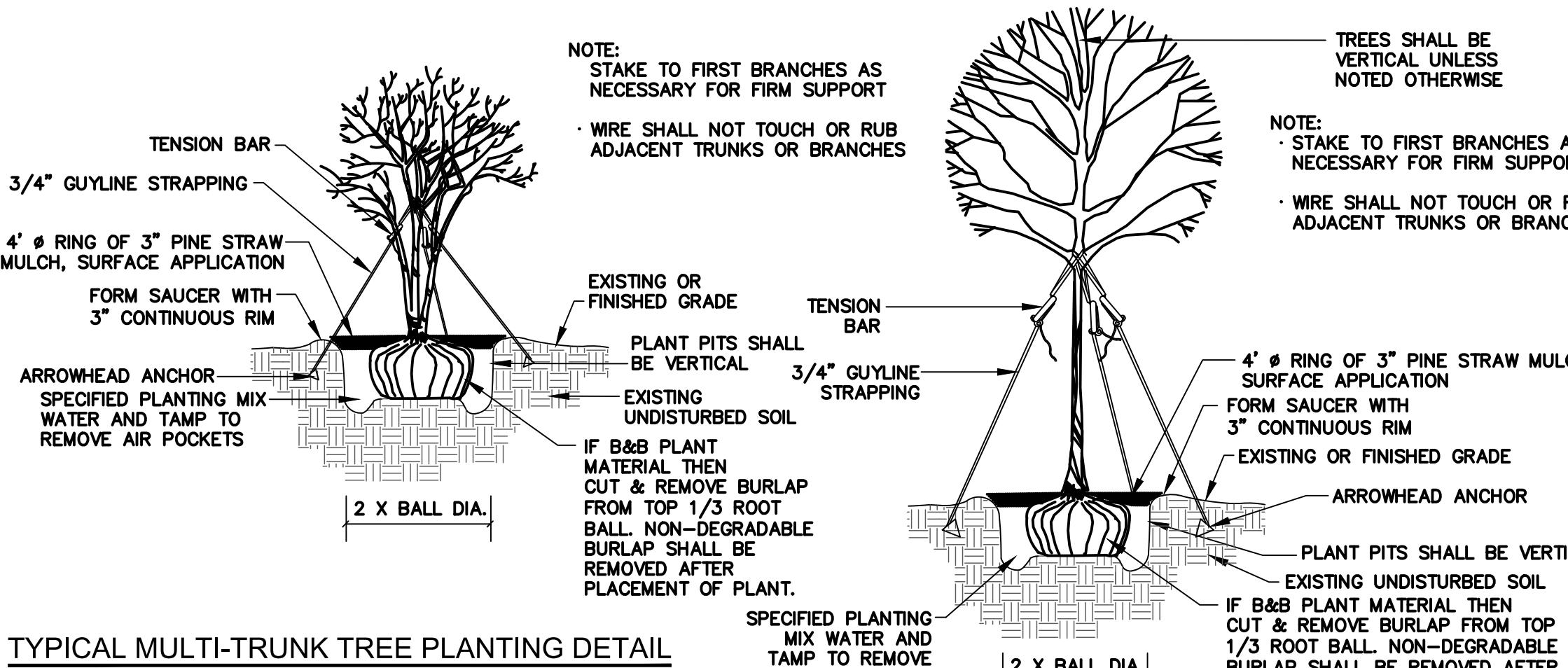
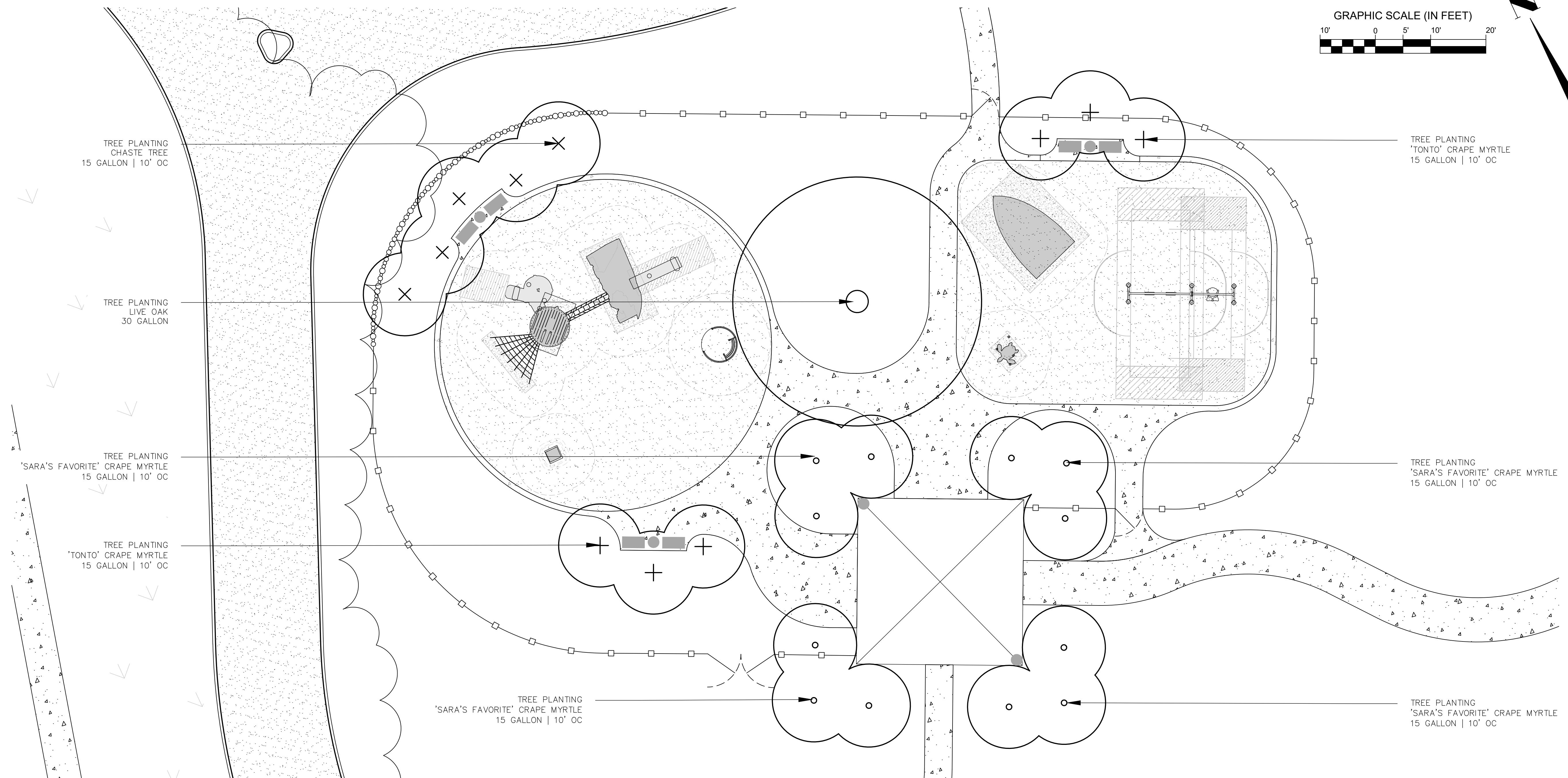


NOTE: PLAN CALLS FOR 9 TOTAL TABLES. 6 SHALL BE STANDARD
AND 3 SHALL BE ADA TABLES.

PICNIC TABLE DETAIL
NOT TO SCALE

DATE	REVISION
DRAWN BY:	LLI DATE: 05/07/2020
CHECKED BY:	JGC JOB NO.: 14305

4



TYPICAL MULTI-TRUNK TREE PLANTING DETAIL

NOT TO SCALE

LANDSCAPE ITEMS	QTY	SIZE/UNIT	SEASONAL APPLICATIONS-DATES & RATES			REQUIREMENTS
			SPRING & SUMMER		FALL & WINTER	
			RATES	DATES	RATES	
SOD PREPARATION & SOLID SOD, TIFWAY 419 BERMUDA	0	SQ. YD.	PER SQ. YD.	BY REQUEST ONLY	SQ. YD.	PER SQ. YD.
SOIL TEST	1		PER CU. YD.	NOT APPLICABLE	PER CU. YD.	NOT APPLICABLE
TOPSOIL, CONTRACTOR FURNISHED	3	CU. YD.	PER CU. YD.	NOT APPLICABLE	PER CU. YD.	NOT APPLICABLE
PINE STRAW MULCH, BALE	12	BALE	PER BALE	NOT APPLICABLE	PER BALE	NOT APPLICABLE
TREE B&B MULCH & CONDITIONER	3	BU. YD.	PER BU. YD.	NOT APPLICABLE	PER CU. YD.	NOT APPLICABLE
TREE PLANTING, LIVE OAK	1	30 GALLON	EACH	BY REQUEST ONLY	EACH	OCTOBER 1 - APRIL 30
TREE PLANTING, 'SARA'S FAVORITE' CRAPE MYRTLE	5	15 GALLON	EACH	BY REQUEST ONLY	EACH	OCTOBER 1 - APRIL 30
TREE PLANTING, 'TONTO' CRAPE MYRTLE	12	15 GALLON	EACH	BY REQUEST ONLY	EACH	OCTOBER 1 - APRIL 30
FERTILIZER FOR WOODY PLANT MATERIAL, TABLET, 21 GRAM	74	EACH	SEE REQUIREMENTS	BY REQUEST ONLY	SEE REQUIREMENTS	OCTOBER 1 - APRIL 30

TYPICAL SINGLE-TRUNK TREE PLANTING DETAIL

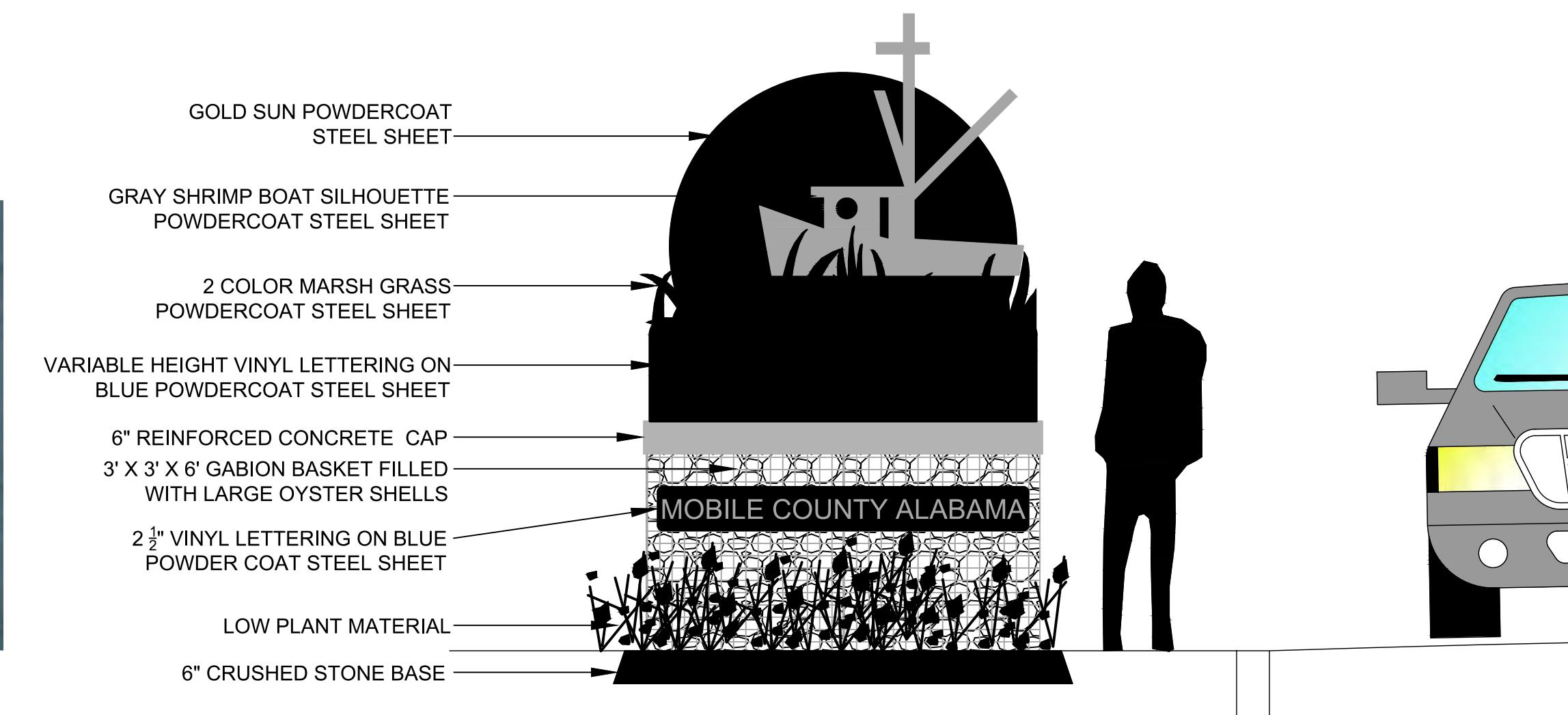
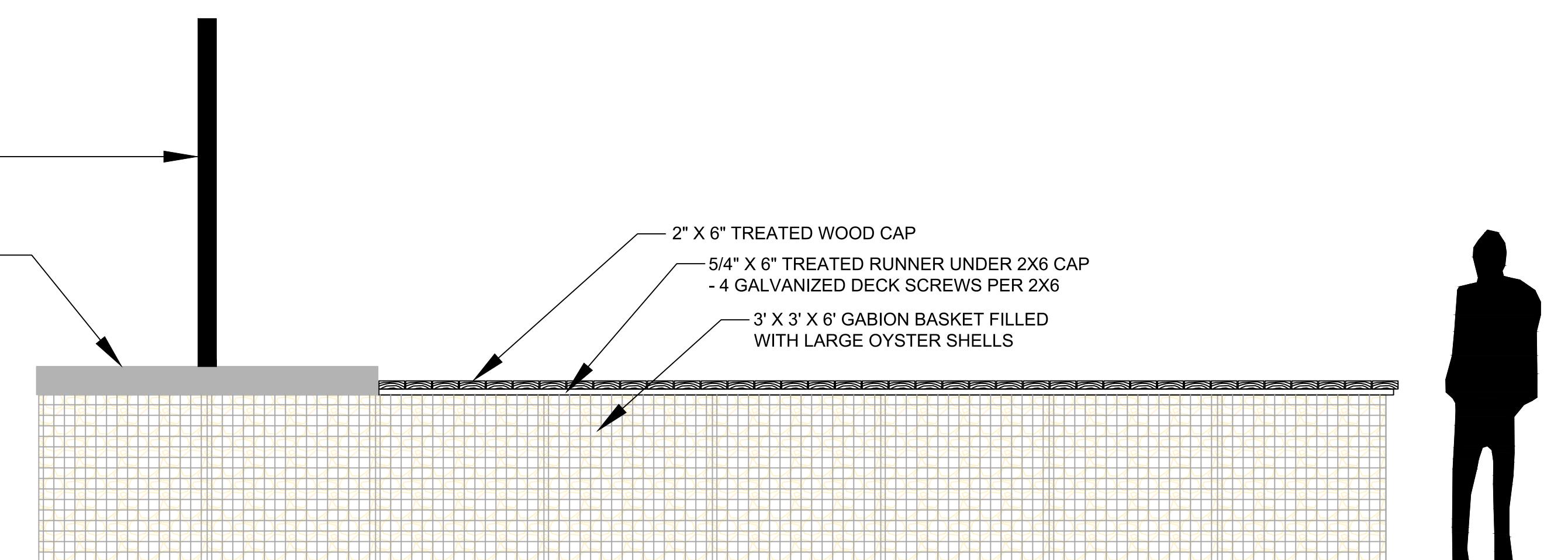
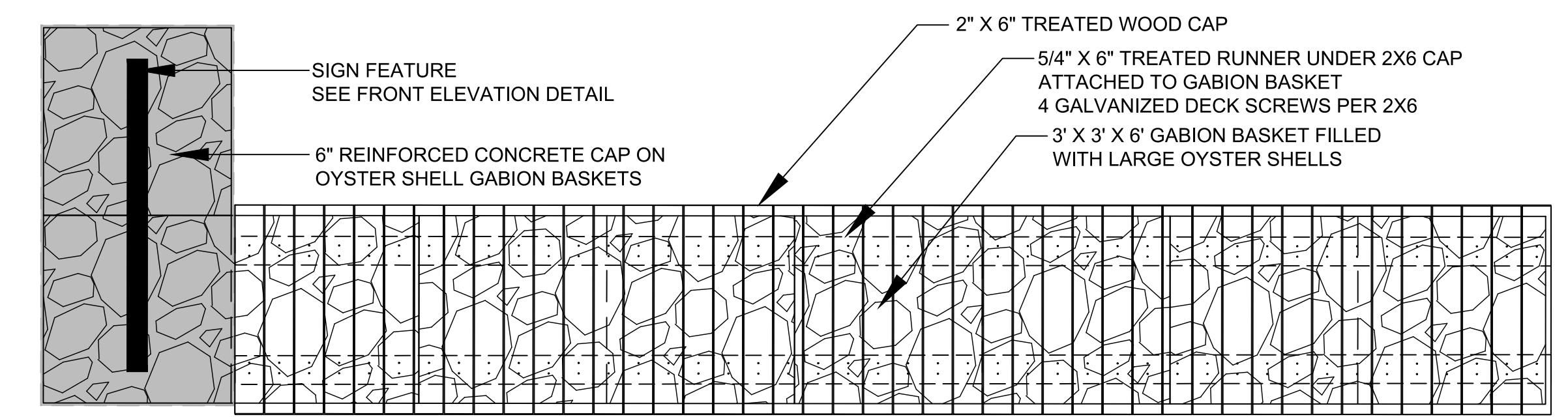
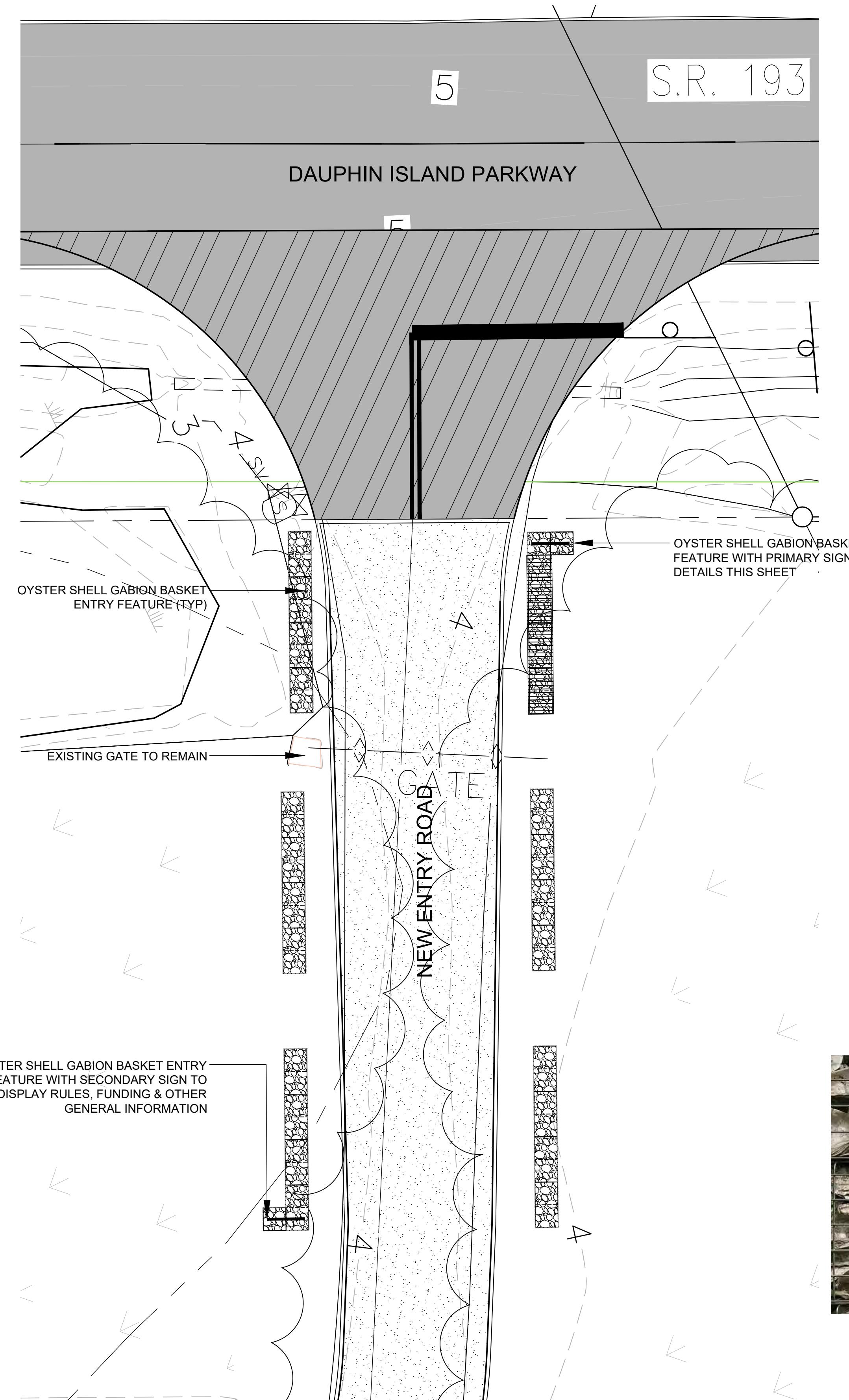
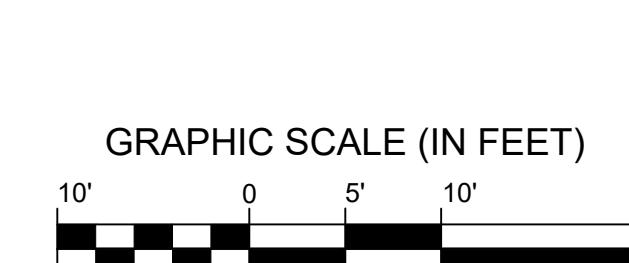
NOT TO SCALE

MOBILE COUNTY, BAYFRONT PARK RESTORATION
AND IMPROVEMENTS

ENTRY FEATURE & SIGN DETAILS

5

DATE	REVISION
DRAWN BY:	LL DATE:
checked by:	JGC JOB NO.:
05/01/2020	
14305	



ENTRANCE SIGN CONCEPT - FRONT ELEVATION

NOT TO SCALE

MOBILE COUNTY, BAYFRONT PARK RESTORATION
AND IMPROVEMENTS
MOBILE, ALABAMA

(NOT FOR CONSTRUCTION)

REVISION	LLI DATE:	05/01/2020
DATE:	DRAWN BY:	JOCO
	CHECKED BY:	1405

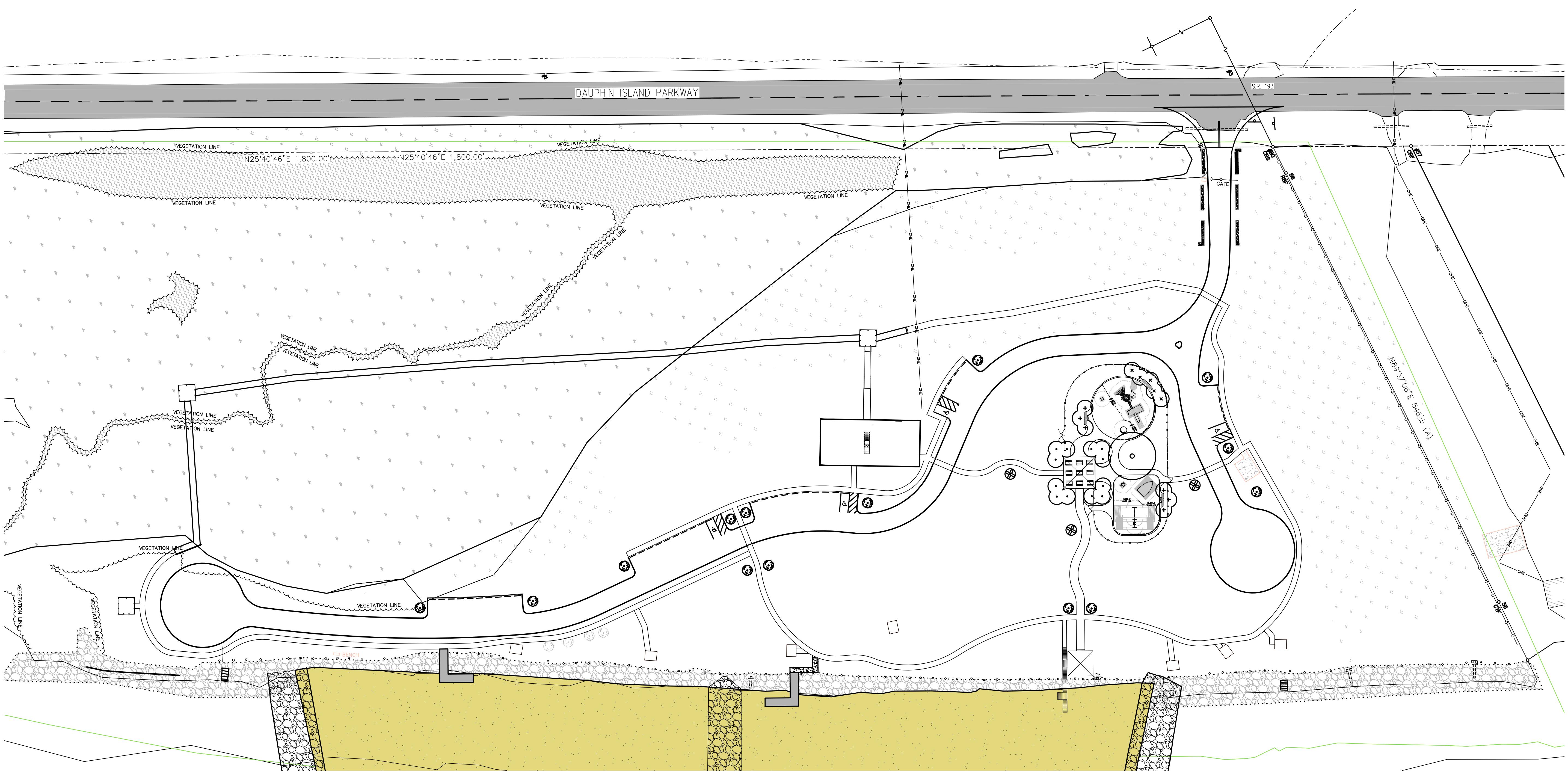
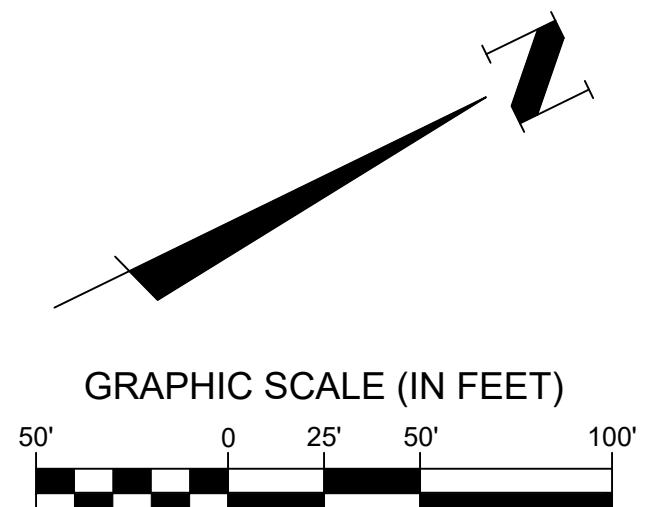
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TREE TRANSPLANT NOTES

- ALL TREE TRANSPLANT AREAS (EXISTING AND PROPOSED LOCATIONS) SHALL BE INSPECTED FOR POSSIBLE HAZARDS PRIOR TO BEGINNING THE TRANSPLANTING PROCEDURE. THE LOCATION OF UTILITIES AND OTHER OBSTRUCTIONS BOTH BELOW AND ABOVE GROUND SHALL BE TAKEN INTO CONSIDERATION PRIOR TO TRANSPLANTING ANY TREES.
- ALL TOOLS AND EQUIPMENT SHALL BE APPROPRIATE TO THE OPERATIONS AND PREPARED IN ADVANCE. DIGGING AND ROOT PRUNING TOOLS SHALL BE SHARP AND CLEAN IN ORDER TO CUT WITHOUT BREAKING, CRUSHING OR TEARING ROOTS. MECHANICAL DIGGING AND ROOT PRUNING EQUIPMENT SHALL BE OPERATED ACCORDING TO MANUFACTURERS' RECOMMENDATIONS TO MINIMIZE ROOT DAMAGE.
- TRANSPLANTING WILL ONLY BE ALLOWED DURING THE TREES' DORMANT PERIOD (APPROX. DEC 1 - FEB 28) AND AS APPROVED BY THE PROJECT LANDSCAPE ARCHITECT.
- A 32"-44" ROOT BALL DIAMETER IS REQUIRED (USING MECHANICAL TREE SPADE OR HAND DIGGING). IF HAND DIGGING IS PREFERRED, A STEP-BY-STEP PROCESS SHALL BE SUBMITTED TO THE PROJECT LANDSCAPE ARCHITECT FOR REVIEW PRIOR TO ANY TRANSPLANT PROCEDURES.
- THOROUGHLY WATER THE ROOT BALL AREA 2 DAYS PRIOR TO TRANSPLANT TO ENSURE THE SOIL WITHIN THE ROOT BALL REMAINS AS INTACT AS POSSIBLE.
- PLACE THE TREE IN ITS NEW LOCATION WITH THE DEPTHS, SURFACE MULCH, AND GUYING REQUIRED IN THE TREE PLANTING DETAIL (SHEET L4).
- APPLY, OPERATED AND/OR MAINTAIN A TEMPORARY IRRIGATION SYSTEM OR SLOW RELEASE IRRIGATION BAG TO ENSURE ADEQUATE WATER DURING THE RE-ESTABLISHMENT PERIOD.
- CONTRACTOR SHALL PROVIDE ALL MAINTENANCE FOR TRANSPLANTED TREES THROUGHOUT THE RE-ESTABLISHMENT PERIOD (FROM COMPLETED TRANSPLANT - NOV 1) AND COVER WITH A 1-YEAR WARRANTY (RE-ESTABLISHMENT PERIOD INCLUDED IN THE 1-YEAR WARRANTY). IF A TREE DOES NOT SURVIVE THROUGH THE 1-YEAR WARRANTY, THE CONTRACTOR SHALL REPLACE AS FOLLOWS:
 - 60-GALLON 'NATCHEZ' CREPE MYRTLE
 - 45-GALLON OLEANDER

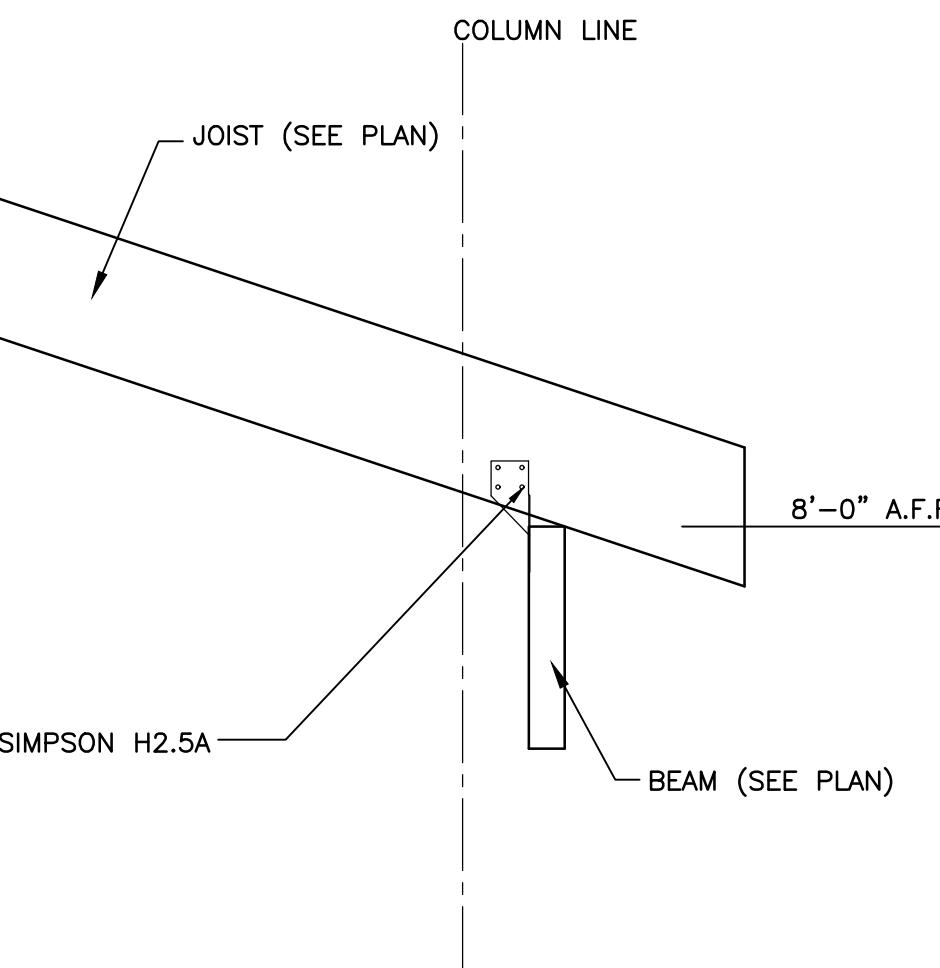
LEGEND

- RELOCATED CREPE MYRTLE
- RELOCATED OLEANDER

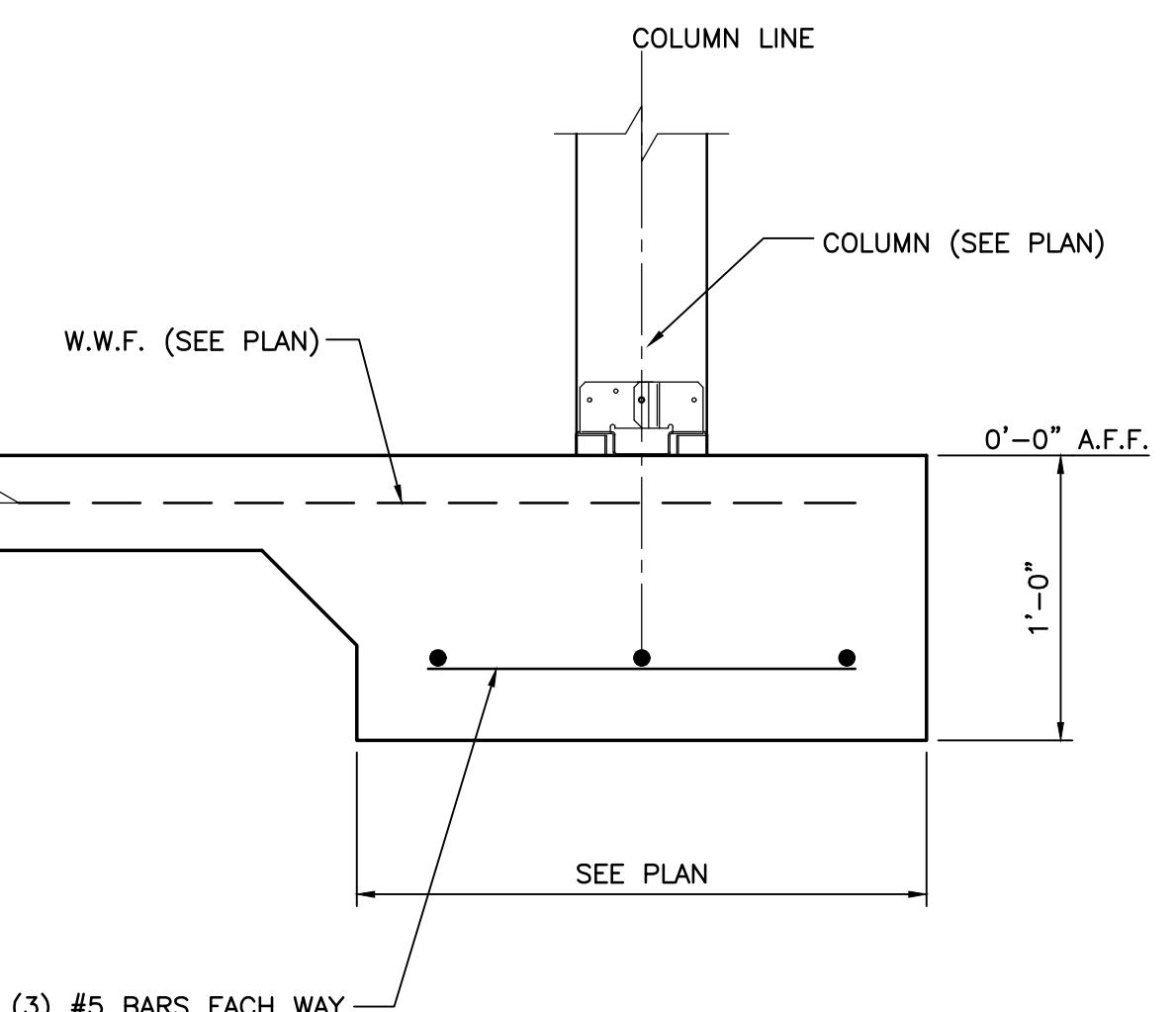


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DRAWN BY:	T.J.M. DATE: 5/1/20
CHECKED BY:	M.C.K. JOB NO: NS-1405.100

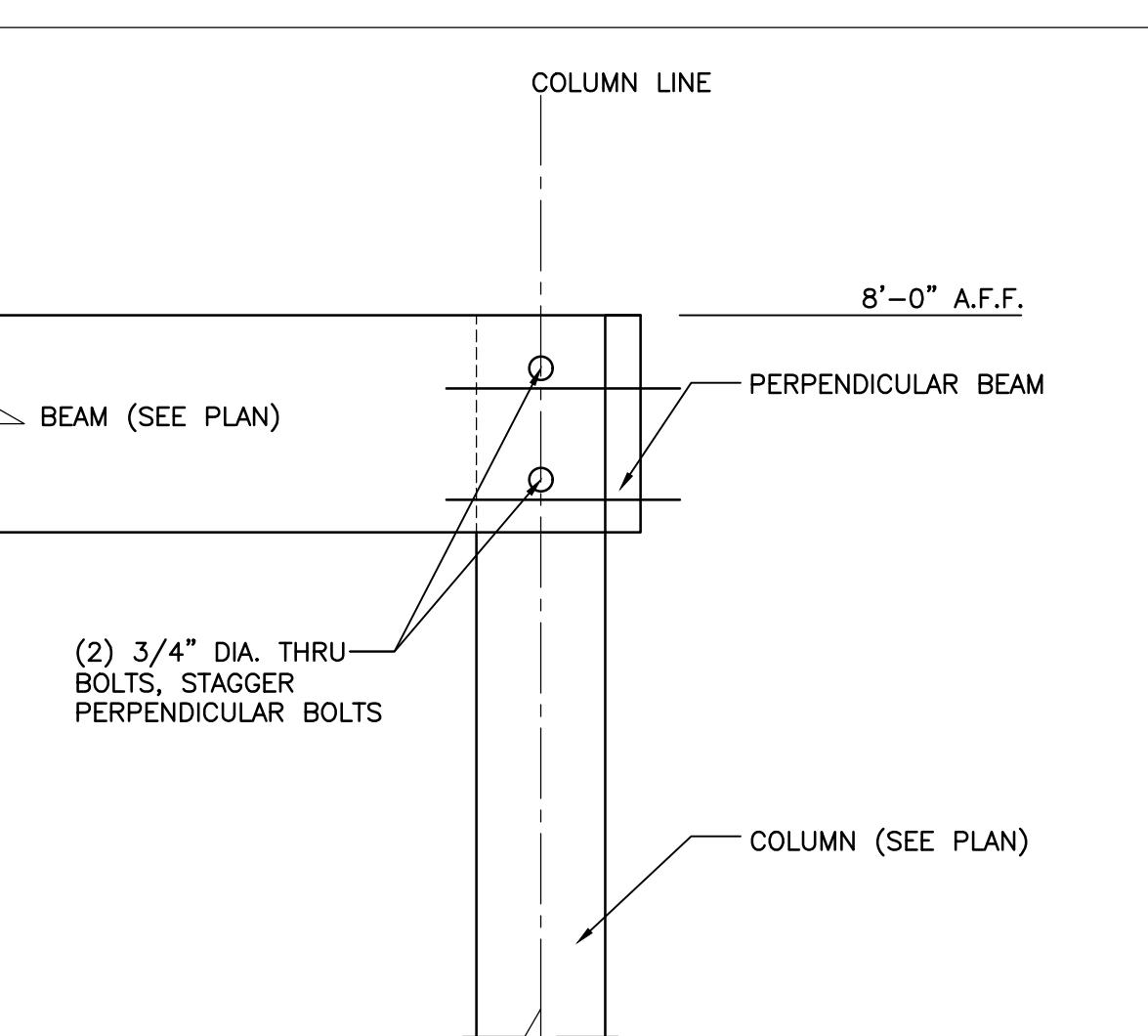
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2 SECTION
S0 SCALE: 3/4"=1'-0"



3 SECTION
S0 SCALE: 3/4"=1'-0"



1 SECTION
S0 SCALE: 3/4"=1'-0"

GENERAL:

- GENERAL BUILDING CODE: INTERNATIONAL BUILDING CODE, 2012 EDITION.
- THE STRUCTURAL DRAWINGS AND SPECIFICATIONS ARE PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL OBTAIN ALL CONTRACT DOCUMENTS AND NOTIFY THE STRUCTURAL ENGINEER AND ARCHITECT OF ANY DISCREPANCIES OR OMISSIONS.
- THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ENGINEER PRIOR TO BIDDING OF ANY DISCREPANCY BETWEEN PLANS, DETAILS, AND/OR SPECIFICATIONS.
- DESIGN LOADS:
 - DEAD LOADS: SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR THE CONSTRUCTION MATERIALS USED IN THE PROJECT. ANY CHANGES IN CONSTRUCTION MATERIALS FROM THOSE SHOWN ON THE DRAWINGS SHALL BE REPORTED TO THE STRUCTURAL ENGINEER FOR VERIFICATION OF THE CAPACITY OF THE STRUCTURE.
 - LIVE LOADS (psf):

ROOF (REDUCIBLE).....	20
BOARDWALK.....	60
PAVILION FLOOR.....	100
 - WIND LOADS:

BASIC WIND SPEED (3 SECOND GUST).....	.150 MPH
BUILDING CATEGORY:.....	I
WIND IMPORTANCE FACTOR.....	.10
EXPOSURE CATEGORY:.....	C
INTERNAL PRESSURE COEFFICIENT (GCp):.....	.00
DESIGN WIND PRESSURE FOR COMPONENTS & CLADDING (psf):	
ROOF.....	.141.6
 - SEISMIC LOADS:

EARTHQUAKE IMPORTANCE FACTOR (Ie):.....	.10
MAPPED SPECTRAL RESPONSE ACCELERATIONS: (Ss):.....	.089
(S1):.....	.056
SITE CLASS (ASSUMED):.....	D
SPECTRAL RESPONSE COEFFICIENTS: (SDS):.....	.095
(SD1):.....	.089
SEISMIC DESIGN CATEGORY:.....	B
BASIC SEISMIC-FORCE RESISTING SYSTEM:	NOT DETAILED FOR SEISMIC

DESIGN BASE SHEAR (kips):..... VARIES
SEISMIC RESPONSE COEFFICIENT (Cs):..... 0.063
RESPONSE MODIFICATION COEFFICIENT (R):..... 1.5

5. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO CONSTRUCTION AND SHALL NOTIFY ENGINEER IF ANY DISCREPANCIES ARE NOTED.

6. SPECIAL INSPECTIONS ARE REQUIRED FOR THIS PROJECT IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE. VISUAL OBSERVATIONS BY THE STRUCTURAL ENGINEER'S OFFICE DOES NOT REPLACE REQUIRED INSPECTIONS OR TESTING PERFORMED BY THE TESTING AGENCY OR SPECIAL INSPECTOR.

7. THE CONTRACTOR IS RESPONSIBLE FOR MEANS, METHODS, AND SEQUENCE OF CONSTRUCTION.

8. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT CONSTRUCTION MATERIALS ARE SPREAD OUT ON FRAMED FLOORS/ROOF SUCH THAT THE DESIGN LOADS LISTED ABOVE ARE NOT EXCEEDED.

SITE PREPARATION:

1. CONTRACTOR TO INVESTIGATE ACTUAL LOCATIONS OF UNDERGROUND LINES AND UTILITIES BEFORE EXCAVATING, AND ADVISE ENGINEER OF ANY VARIATIONS. ALL EXCAVATIONS NEAR THESE LINES TO BE CARRIED OUT WITH EXTREME CAUTION.

2. THE GENERAL CONTRACTOR SHALL OBTAIN A COPY OF THE GEOTECHNICAL REPORT BY GEOTECHNICAL ENGINEERING TESTING, INC FROM THE OWNER AND FOLLOW ALL REQUIREMENTS.

3. THE OWNER SHALL HIRE A GEOTECHNICAL ENGINEER TO REVIEW THE FOUNDATION BEARING SURFACE AND ENSURE THAT THE ALLOWABLE SOIL BEARING LISTED ABOVE THAT WAS USED IN THE STRUCTURAL DESIGN IS MET.

GRATING:

1. ALL GRATING SHALL BE BEDFORD PLASTICS 3/4" SQUARE GRATING THAT IS 1" THICK OR APPROVED EQUAL UNLESS NOTED OTHERWISE.

2. EACH SECTION OF GRATING SHALL BE REMOVABLE AND FURNISHED WITH A MINIMUM OF TWO FASTENERS FOR EACH SUPPORT MEMBER.

3. GRATING FASTENERS SHALL BE WOOD SCREWS AND SADDLE CLIPS SUPPLIED BY THE GRATING MANUFACTURER.

WOOD PILING:

1. CONTRACTOR SHALL REFERENCE ALABAMA DEPARTMENT OF TRANSPORTATION (ALDOT) STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION LATEST EDITION SECTION 505 FOR PILING SPECIFICATIONS.

2. ALL PILING SHALL BE DRIVEN TO DEPTHS CALLED FOR ON THE PLANS.

3. ALL WOOD PILINGS SHALL BE COMMERCIALLY AVAILABLE SOUTHERN YELLOW PINE 10' BUTT POLES WITH 1" DIAMETER TAPER PER 10'. POLES SHALL BE TREATED WITH A MINIMUM "CCA" TREATMENT OF 0.60 PCF.

4. A QUALIFIED GEOTECHNICAL ENGINEER SHALL BE PRESENT DURING PILE DRIVING TO DEVELOP AND MAINTAIN PILE DRIVING RECORDS AND VERIFY PILE CAPACITIES.

5. PILING CAPACITIES HAVE BEEN ESTABLISHED AND CAN BE FOUND IN THE GEOTECHNICAL REPORT.

CONCRETE:

- CONCRETE DESIGN CODE: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE - ACI 318-11.
- UNLESS OTHERWISE NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS, CONCRETE SHALL DEVELOP A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
- UNLESS OTHERWISE NOTED, ALL DETAILING, FABRICATING STEEL SHALL BE GRADE 60, DEFORMED BARS, CONFORMING TO ASTM A615.
- UNLESS OTHERWISE NOTED, ALL DETAILING, FABRICATION AND PLACING OF REINFORCING STEEL SHALL CONFORM TO THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI-SP-66-LATEST EDITION).
- ALL BAR SPLICES SHALL BE CLASS 'B' TENSION SPLICES, AS SPECIFIED IN ACI 318-11 UNLESS OTHERWISE NOTED. REINFORCEMENT SHALL NOT BE WELDED UNLESS APPROVED BY THE ENGINEER.

TENSION LAP SPLICE LENGTHS		
BAR SIZE	fc=4000 psi	
	TOP BARS	OTHER BARS
#3	25"	19"
#4	33"	25"
#5	41"	31"
#6	49"	37"
#7	71"	54"
#8	81"	62"
#9	91"	70"
#10	102"	79"
#11	114"	87"

NOTES:
 1. ABOVE CHART IS APPLICABLE TO GRADE 60 REINFORCEMENT.
 2. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF FRESH CAST BELOW THE BAR.
 3. WHEN BAR COVER IS EQUAL TO OR LESS THAN THE BAR DIAMETER OR THE BAR SPACING IS TWICE THE BAR DIAMETER OR LESS, SPLICE LENGTHS SHALL BE INCREASED BY 100%.

6. ANCHOR BOLTS SHALL BE A307 UNLESS NOTED OTHERWISE. ALL BOLTS IN CONTACT WITH PRESSURE TREATED WOOD SHALL BE GALVANIZED OR STAINLESS STEEL.

7. CHAMFER ALL EXPOSED EXTERNAL CORNERS OF CONCRETE WITH 3/4" x 45 DEGREE CHAMFER, UNLESS NOTED OTHERWISE.

8. UNLESS OTHERWISE NOTED, REINFORCE ALL CONCRETE SLABS ON GRADE WITH 4 x 4 - W2.9 x W2.9 WELDED WIRE FABRIC AT MID-DEPTH OF SLAB.

9. WELDED WIRE FABRIC REINFORCING SHALL LAP TWO FULL MESHES AND BE SECURELY WIRED AT EACH SIDE AND END.

10. CONTRACTOR TO REFER TO DRAWINGS OF OTHER TRADES AND VENDOR DRAWINGS FOR EMBEDDED ITEMS AND RECESSSES NOT SHOWN ON THE STRUCTURAL DRAWINGS.

11. CONTRACTOR SHALL VERIFY SIZES AND LOCATIONS OF ALL MECHANICAL AND ELECTRICAL OPENINGS WITH THE MECHANICAL AND ELECTRICAL DETAILS AND SHOP DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL OPENINGS AND SLEEVES FOR PROPER DISTRIBUTION FOR ALL UTILITY LINES THROUGHOUT BUILDING.

12. PROVIDE CONCRETE COVERAGE OF REINFORCEMENT AS FOLLOWS: (PER ACI 318)

FOOTINGS: 3" BOTTOM & SIDES..... 1 1/2" TOP

WALLS:..... 1 1/2"

PEDESTALS:..... 1 1/2" CLEAR OF TIES

13. PROVIDE CORNER BARS TO SPLICE WITH ALL CONTINUOUS REINFORCEMENT.

14. ALL CONCRETE SHALL BE CURED USING WET METHODS OR CURING COMPOUND PER ACI 301. COMPLY WITH ACI 301 FOR MIXING, TRANSPORTING, FORMING, PLACING, AND CURING CONCRETE.

15. MAXIMUM SPACING OF CONTROL JOINTS IN SLABS SHALL BE 15'-0" EACH WAY UNLESS SHOWN OTHERWISE ON THE PLANS.

16. ALL EPOXY SHALL CONFORM TO THE REQUIREMENTS OF HILTI HY 200 OR APPROVED EQUAL.

17. CONCRETE MIX REQUIREMENTS:

-PORTLAND CEMENT: ASTM 150, TYPE 1

-FLY ASH: CLASS F OR C (25% OF CEMENTITIOUS MATERIALS MAXIMUM)

-AGGREGATE: ASTM 33

-MAXIMUM W/C RATIO: 0.48

-MINIMUM CEMENTITIOUS MATERIAL: 520LB/CU. YD.

-SLUMP LIMIT: 4" ±1", 8" WITH VERIFIED SLUMP OF

2 TO 4 INCHES

BEFORE ADDING HIGH RANGE WATER REDUCING ADMIXTURE OR

PLASTICIZING ADMIXTURE, ±1 INCH.

-AIR CONTENT: NOT TO EXCEED 3%.

WOOD FRAMING NOTES:

- WOOD DESIGN CODE: NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION- NDS-12
- STRUCTURAL LUMBER:
 - A. ALL STRUCTURAL LUMBER SHALL BE SOUTHERN PINE NO. 2 (MOISTURE CONTENT 19% OR LESS), OR STRONGER.
- FASTEN 2 PLY AND 3 PLY BEAMS AND COLUMNS TOGETHER USING 2 ROWS OF 16D NAILS STAGGERED AT 12" ON CENTER. PROVIDE 1/2" DIAMETER BOLTS SPACED AT 16 WHEN MORE THAN 3 PILES ARE USED.
- ALL BOLTS SHALL CONFORM TO ASTM A307. ALL NAILS, SPIKES, STAPLES, BOLTS, NUTS, WASHERS, ETC. THAT ARE IN CONTACT WITH TREATED WOOD SHALL BE HOT DIPPED GALVANIZED OR STAINLESS STEEL.
- ALL STEEL HANGERS SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED WITH 1.85 OZ. ZINC PER SQUARE FOOT MINIMUM (SIMPSON ZMAX-185).

3. PLYWOOD SHEATHING:

- PLYWOOD ROOF SHEATHING SHALL BE 5/8" APA RATED, EXPOSURE 1 SHEATHING. MINIMUM SPAN RATING 40/20. FACE GRAIN TO BE 90 DEGREES TO THE SUPPORTS. FASTEN WITH 10D COMMON NAILS AT 6" AT EDGES AND 12" AT INTERIOR SUPPORTS. STAGGER PERPENDICULAR TO JOISTS.
- ROOF SHEATHING SHALL BE INSTALLED AS INDICATED BELOW:
 - SHEATHING TO SPAN PERPENDICULAR TO DIRECTION OF JOIST SPAN.
 - ADJACENT PANELS SHALL BE ATTACHED TO SAME JOIST.
 - END JOINTS SHALL BE STAGGERED.
 - PANELS SHALL BE ATTACHED TO JOISTS AT EACH END AND AT ALL INTERMEDIATE BEARINGS.
 - PROVIDE BLOCKING AT PANEL EDGES BETWEEN JOISTS AS REQUIRED.

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- PROVIDE BLOCKING AT PANEL EDGES BETWEEN JOISTS AS REQUIRED.

LAMINATED VENEER LUMBER MEMBERS:

- ALL LAMINATED VENEER LUMBER (LVLs) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:

Fbx = 3100 psi, Ex = 2,000,000 psi, Fvx = 285 psi

10. CONTRACTOR TO REFER TO DRAWINGS OF OTHER TRADES AND VENDOR DRAWINGS FOR EMBEDDED ITEMS AND RECESSSES NOT SHOWN ON THE STRUCTURAL DRAWINGS.

11. CONTRACTOR SHALL VERIFY SIZES AND LOCATIONS OF ALL MECHANICAL AND ELECTRICAL OPENINGS WITH THE MECHANICAL AND ELECTRICAL DETAILS AND SHOP DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL OPENINGS AND SLEEVES FOR PROPER DISTRIBUTION FOR ALL UTILITY LINES THROUGHOUT BUILDING.

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-AGGREGATE: ASTM 33

-MAXIMUM W/C RATIO: 0.48

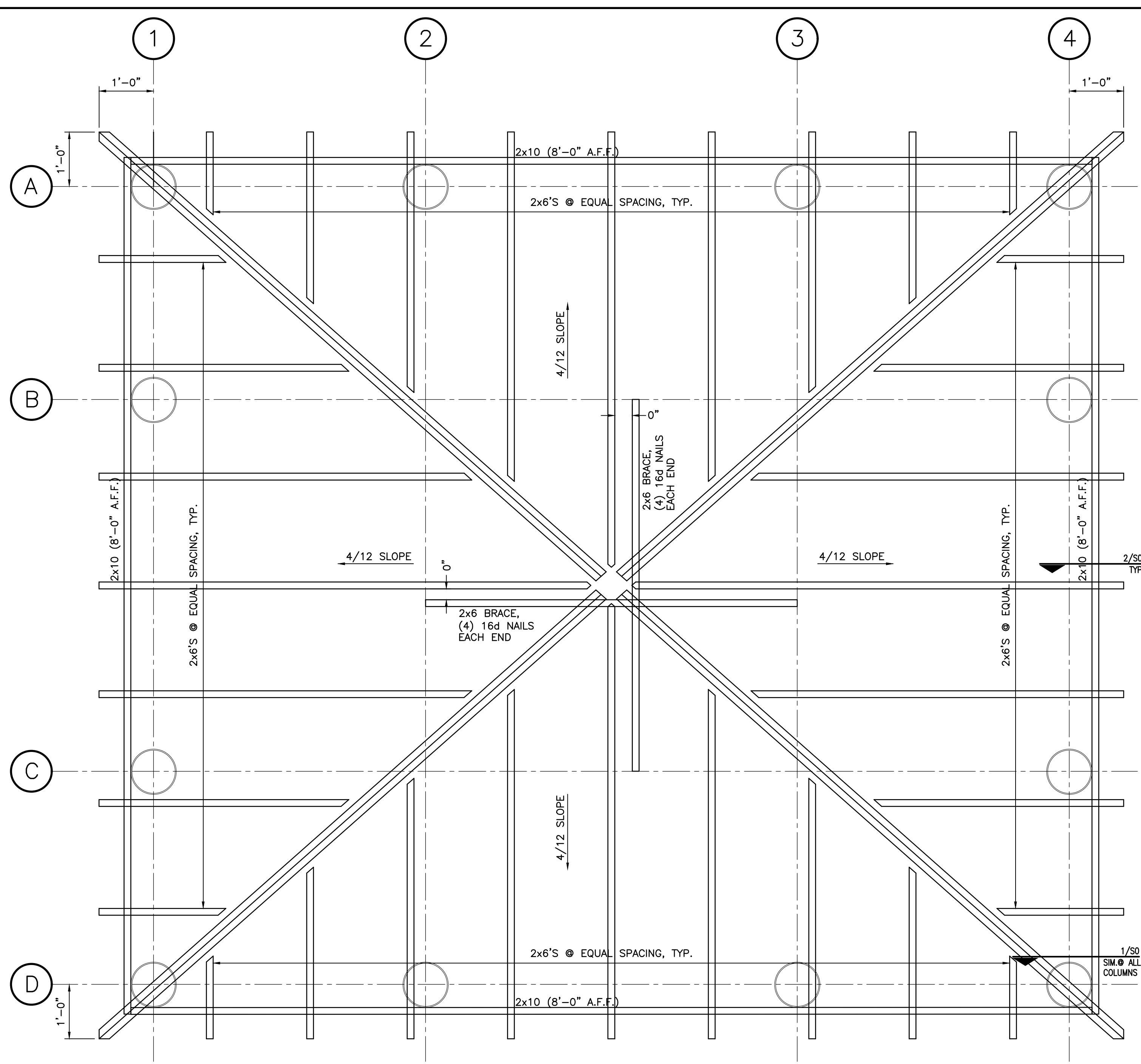
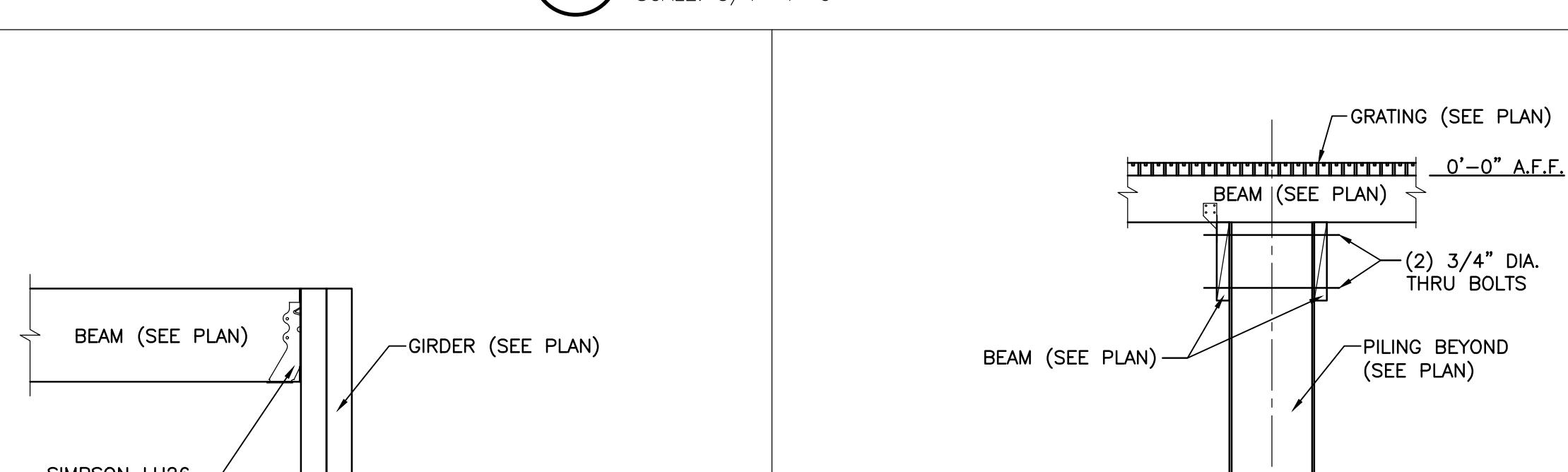
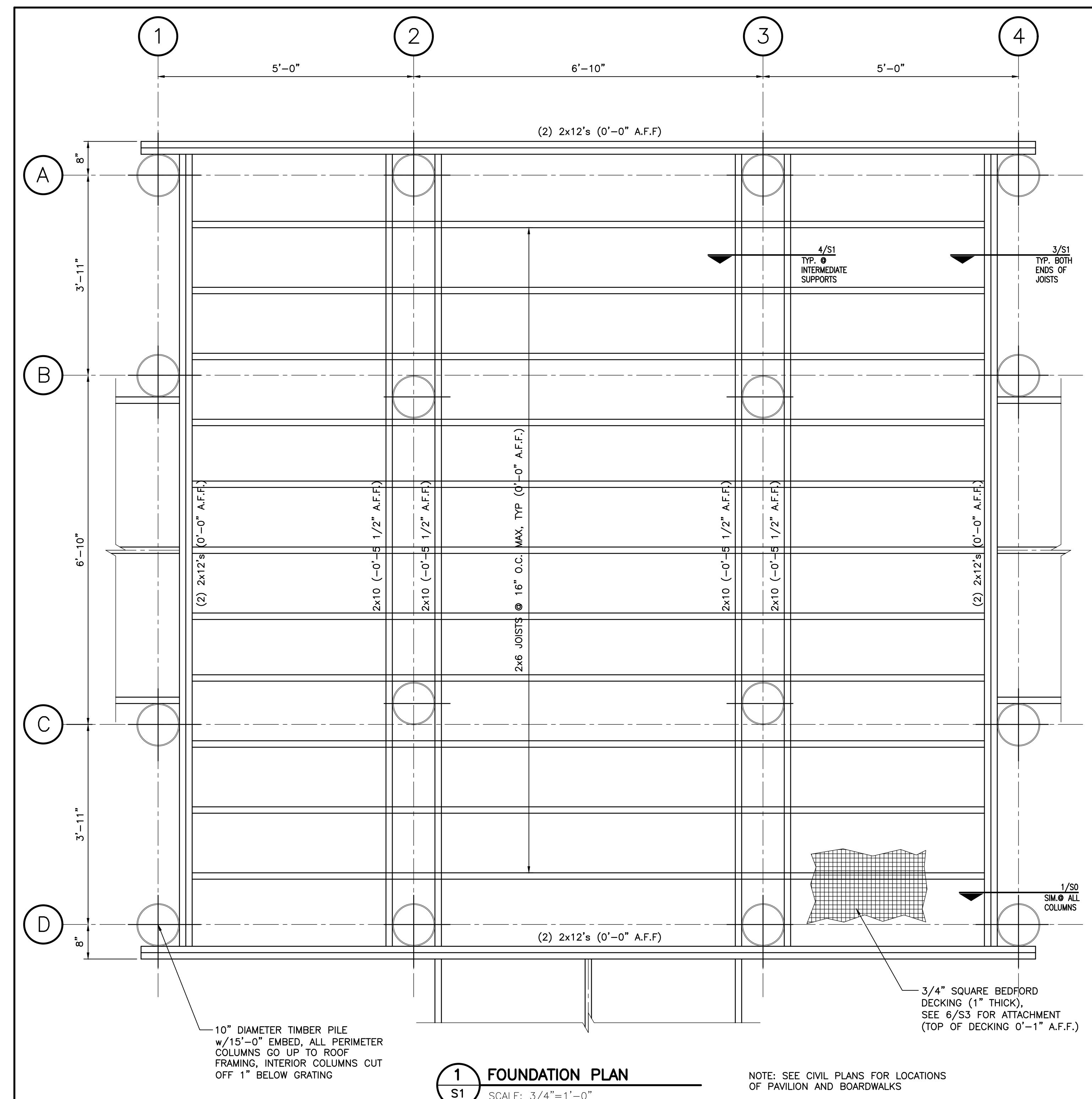
-MINIMUM CEMENTITIOUS MATERIAL: 520LB/CU. YD.

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2 TO 4 INCHES

BEFORE ADDING HIGH RANGE WATER REDUCING ADMIXTURE OR

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MOBILE COUNTY, BAYFRONT PARK RESTORATION
AND IMPROVEMENTS
BOARDWALK OBSERVATION STRUCTURE PLANS

MOBILE, ALABAMA

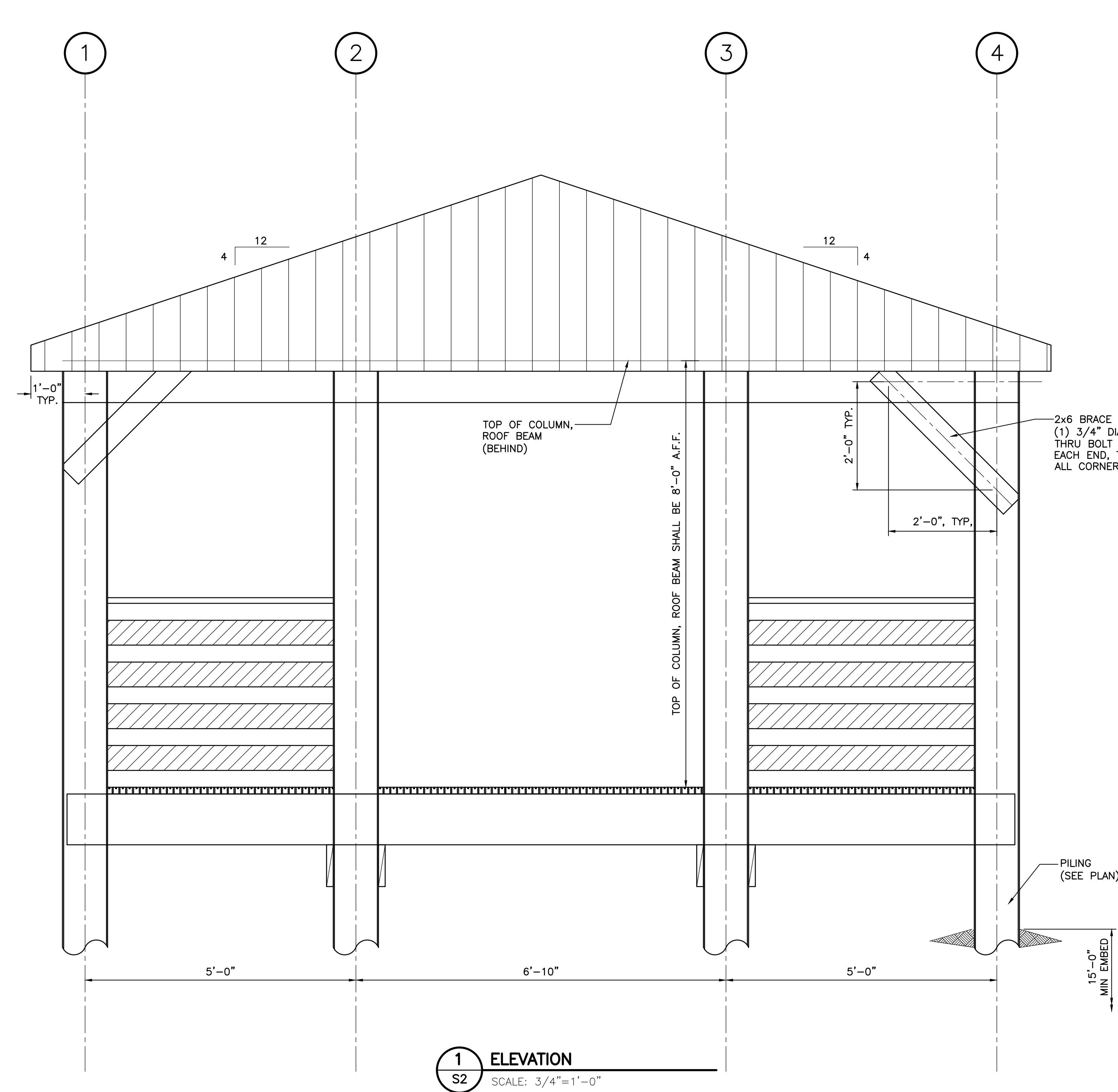
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DRAWN BY: T.J.M. DATE: 5/1/20
CHECKED BY: M.C.K. JOB NO: NS-1405.100
DRAFTED BY: M.C.K. JOB NO: NS-1405.100

S2

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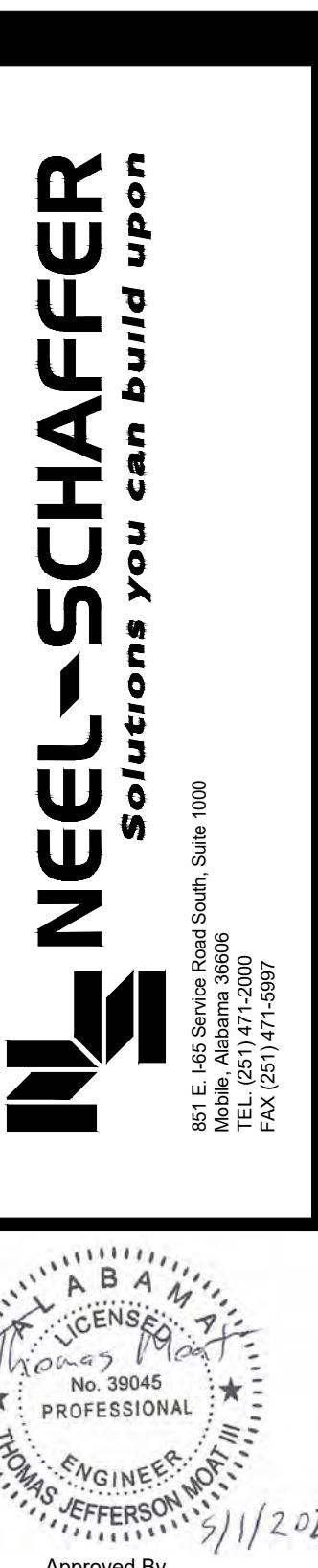
ALABAMA
LICENSE NO. 39045
PROFESSIONAL
ENGINEER
THOMAS JEFFERSON MORN
Approved By
3/11/2020

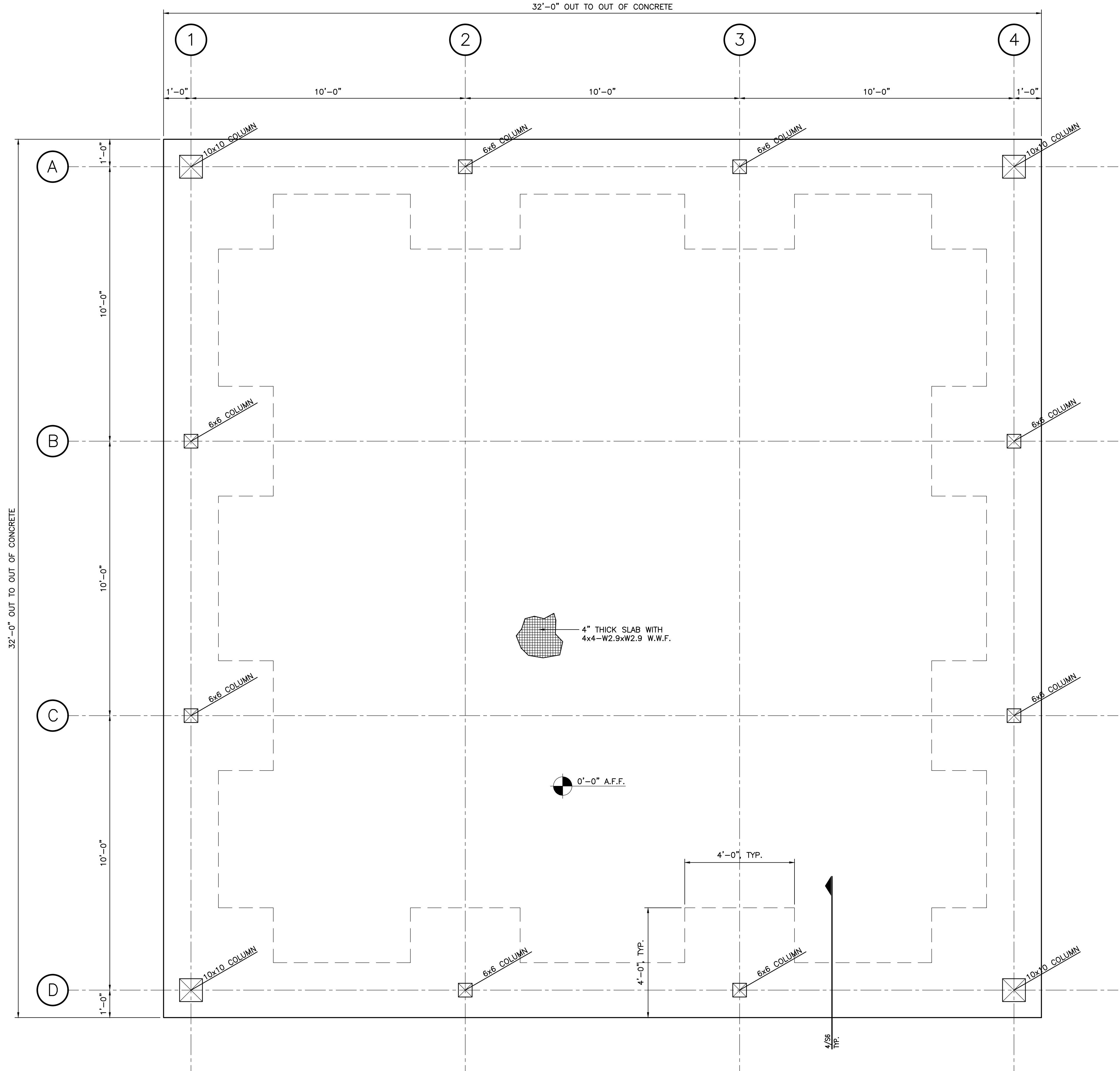


MOBILE COUNTY, BAYFRONT PARK RESTORATION
AND IMPROVEMENTS
BOARDWALK OBSERVATION STRUCTURE ELEVATIONS

DATE	REVISION
5/1/20	
DRAWN BY: T.M.J. DATE: 5/1/20	
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S2





NOTE: SEE CIVIL PLANS FOR LOCATIONS
OF PAVILION AND BOARDWALKS

1 FOUNDATION F

PLOT INFORMATION:
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PLOT INFORMATION
April 30, 2020
9:05 AM
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S4

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MOBILE COUNTY, ALABAMA RESOLUTION AND IMPROVEMENTS PLAYGROUND SHADE SHELTER FOUNDATION PLAN

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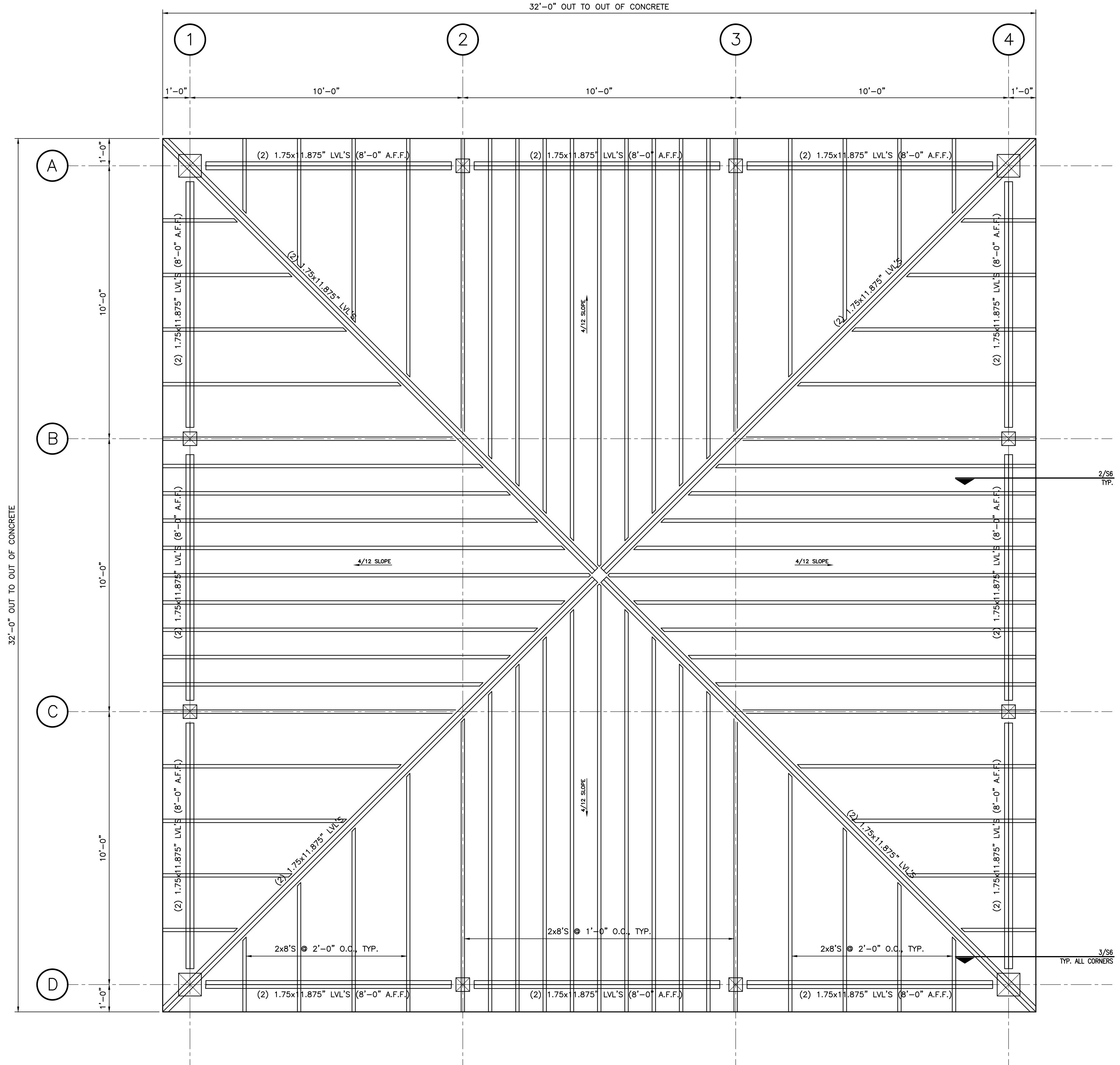
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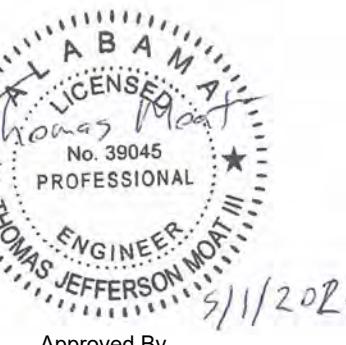


NOTE: ROOF DECKING PER GENERAL NOTES, ROOFING MATERIAL AND BUILDUP ABOVE DECKING SHALL MATCH THE ARCHITECTURAL REQUIREMENTS FOR THE RESTROOM BUILDING.

1 ROOF FRAMING

S5 SCALE: 1/2"=1'-0"

55 SCALE: 1/2"=1'



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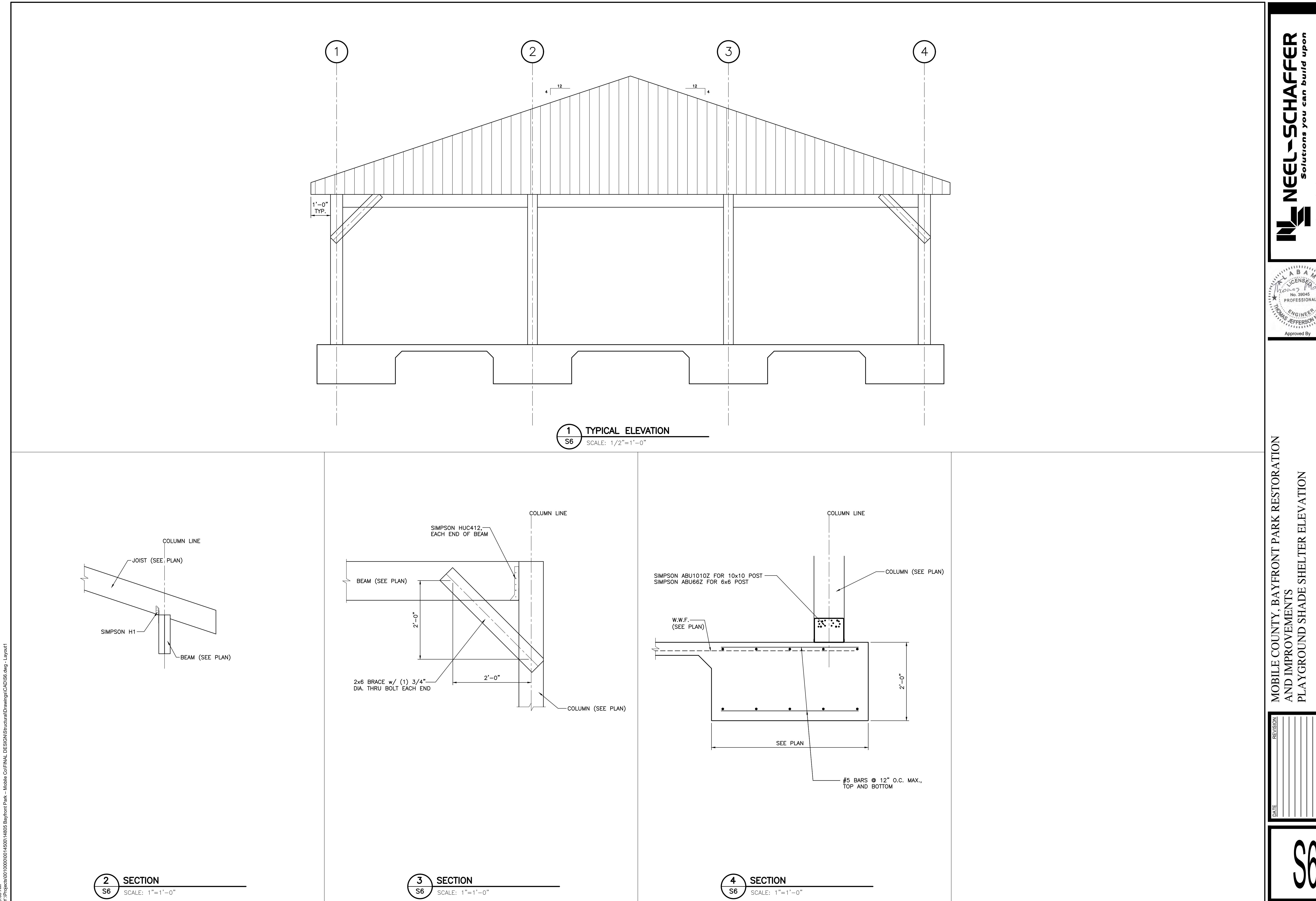
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MOBILE COUNTY, ALABAMA ENVIRONMENTAL AND IMPROVEMENTS PLAYGROUND SHADE SHELTER ROOF FRAMING PLAN

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CHECKED BY:	M.C.K.	JOB NO.:NS.14805.100	

S5



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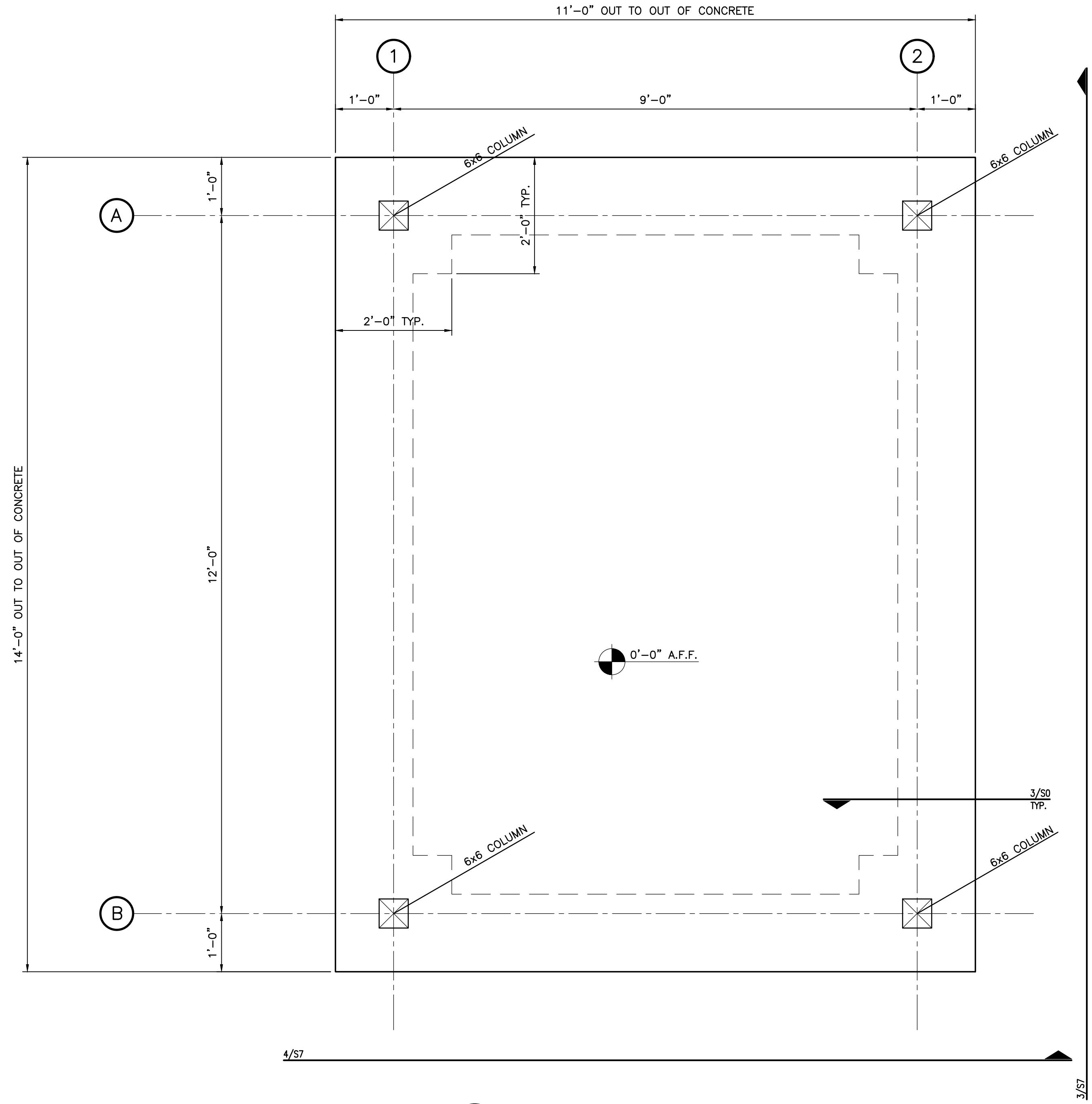
ALABAMA
LICENSE NO. 39045
PROFESSIONAL
ENGINEER
THOMAS JEFFERSON, M.ASCE
5/11/2020

Approved By

MOBILE COUNTY, BAYFRONT PARK RESTORATION
AND IMPROVEMENTS

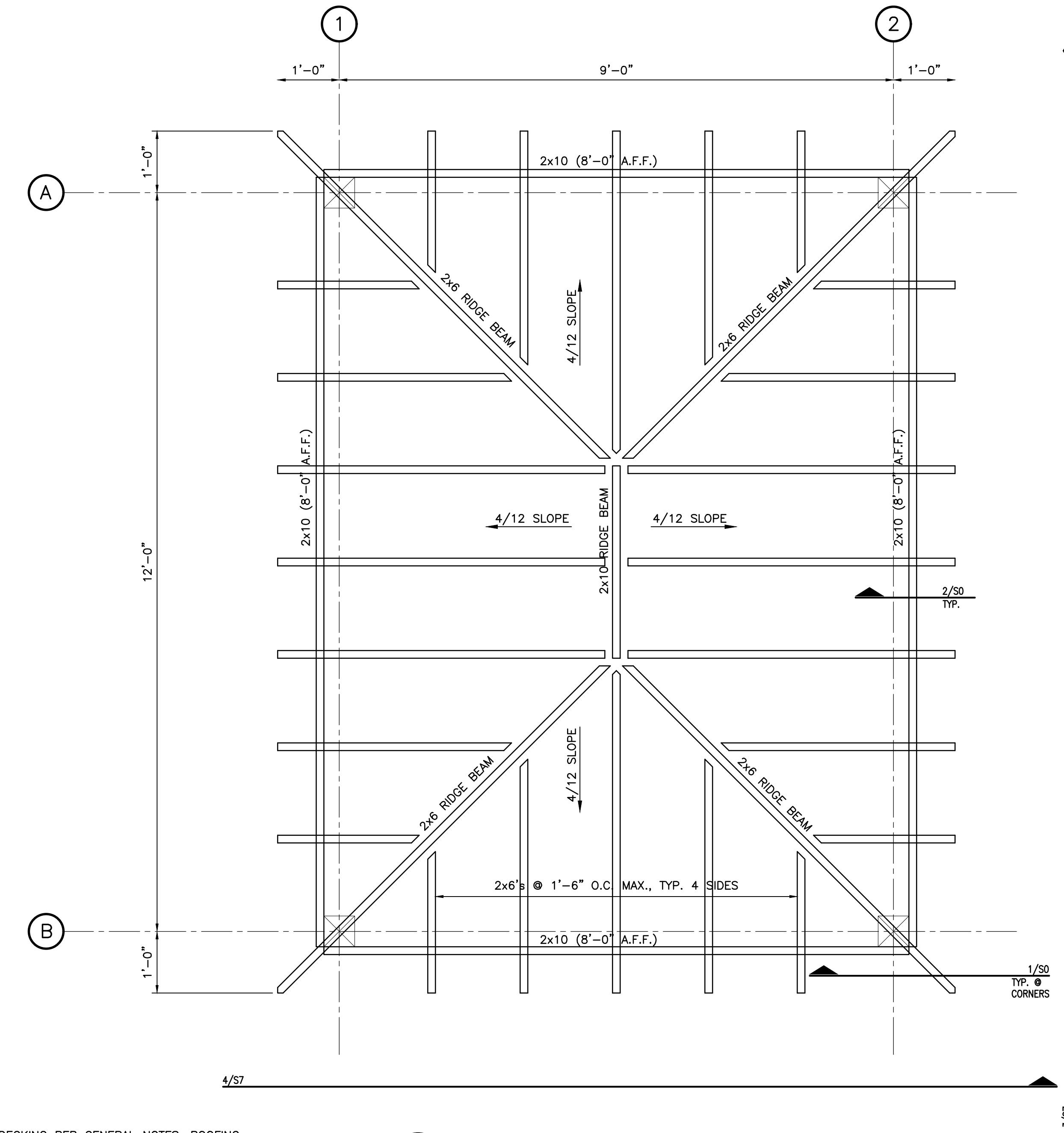
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CHECKED BY: M.C.K. JOB NO: NS-14805.100

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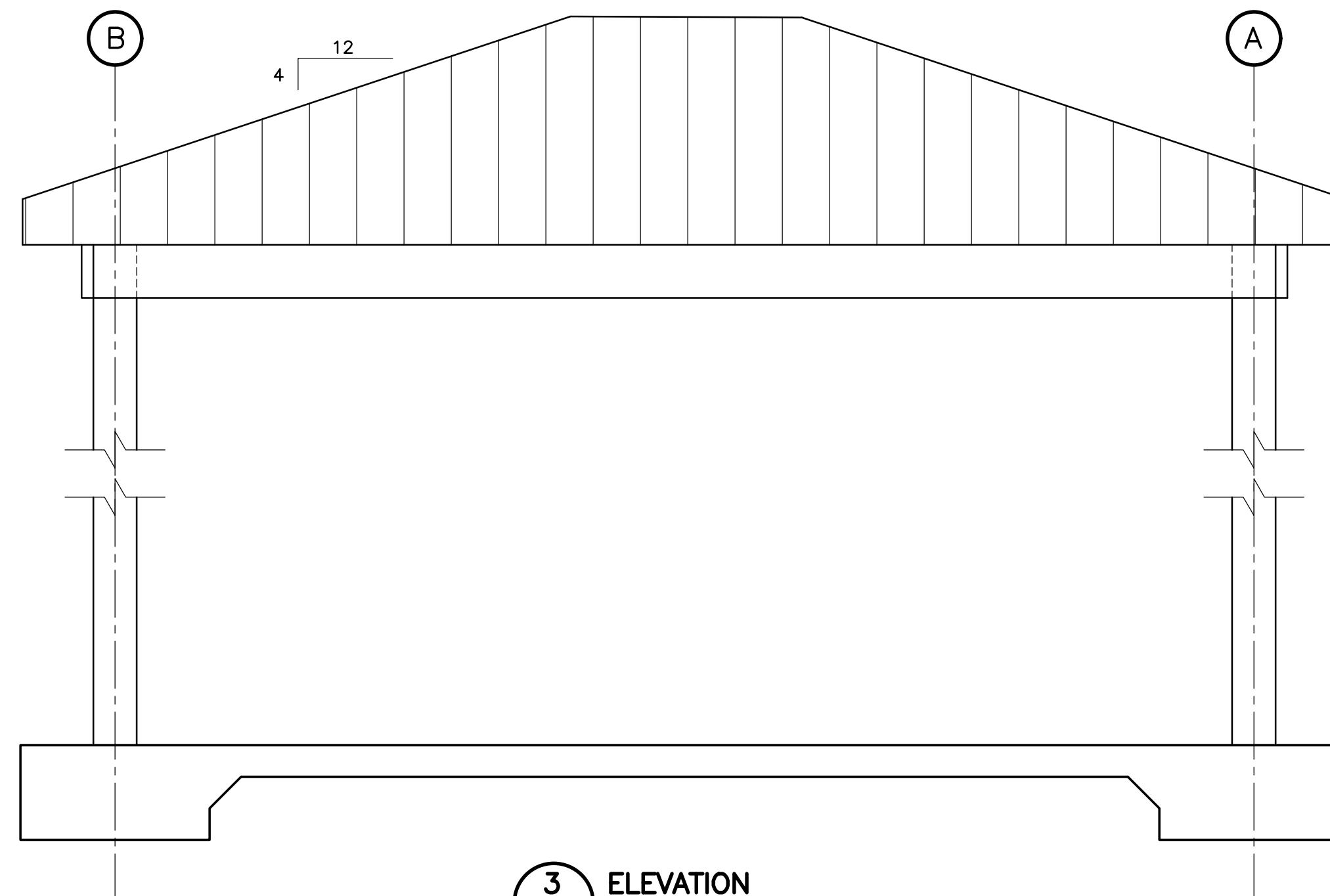
1 **FOUNDATION PLAN**
S7 SCALE: $3/4"=1'-0"$

NOTE: SEE CIVIL PLANS FOR LOCATIONS
OF PAVILION AND BOARDWALKS



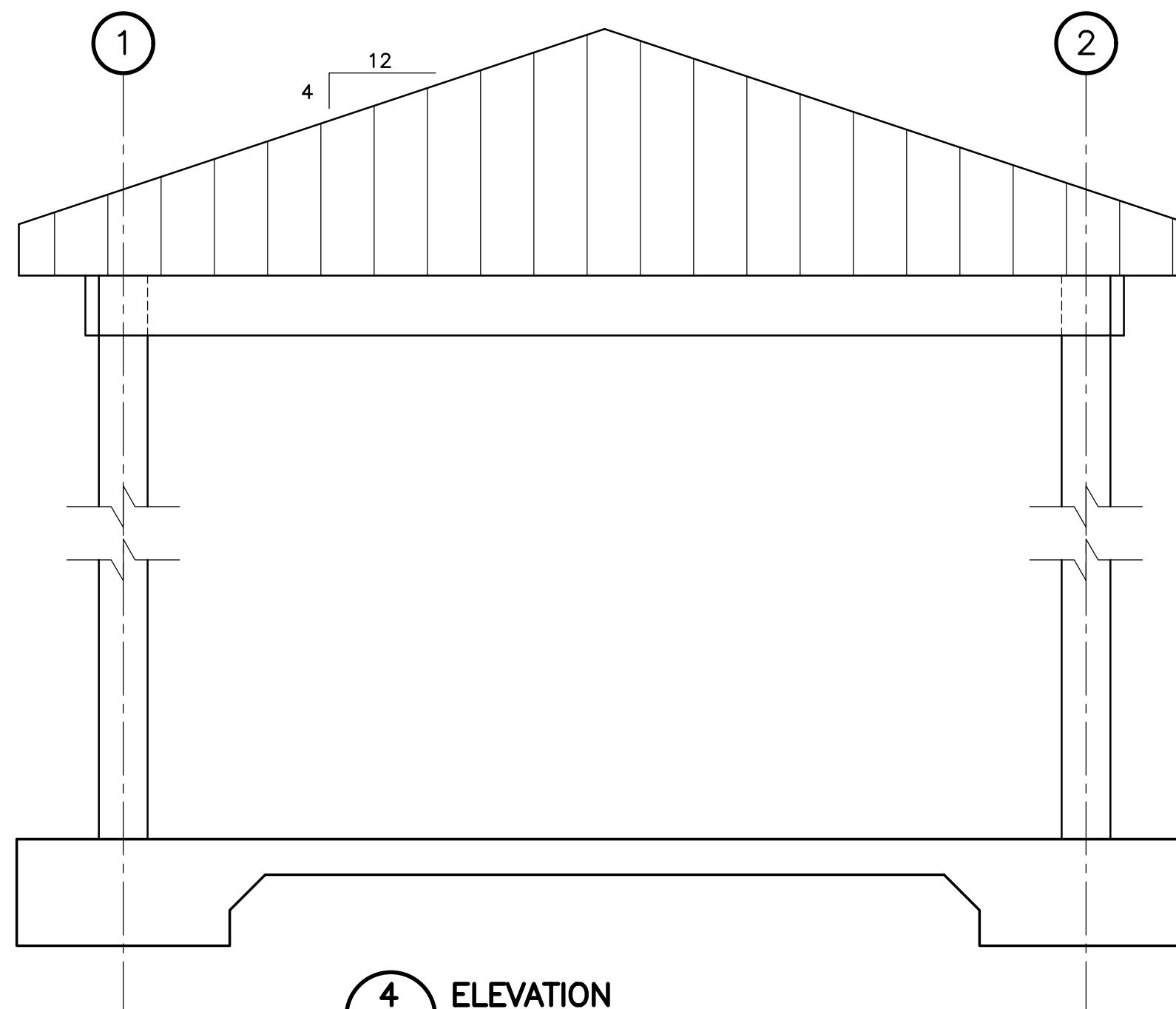
2 ROOF FRAMING PLAN
S7 SCALE: $3/4"=1'-0"$

NOTE: ROOF DECKING PER GENERAL NOTES, ROOFING MATERIAL AND BUILDUP ABOVE DECKING SHALL MATCH THE ARCHITECTURAL REQUIREMENTS FOR THE RESTROOM BUILDING.



3
S7 **ELEVATION**
SCALE: $3/4''=1$

S7



4
S7 ELEVATION
SCALE: 3/4"=1

S7 SCALE: 3/4"=1'-0"

PLOT INFORMATION:
April 30, 2020
2:05 AM

PLOT INFORMATION:
April 30, 2020
09:05 AM

14'-0" OUT TO OUT OF CONCRETE

1

15

5/57

MOBILE COUNTY, BAYFRONT PARK RESTORATION AND IMPROVEMENTS SITE SHADE SHELTER PLAN AND ELEVATION

10

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S7

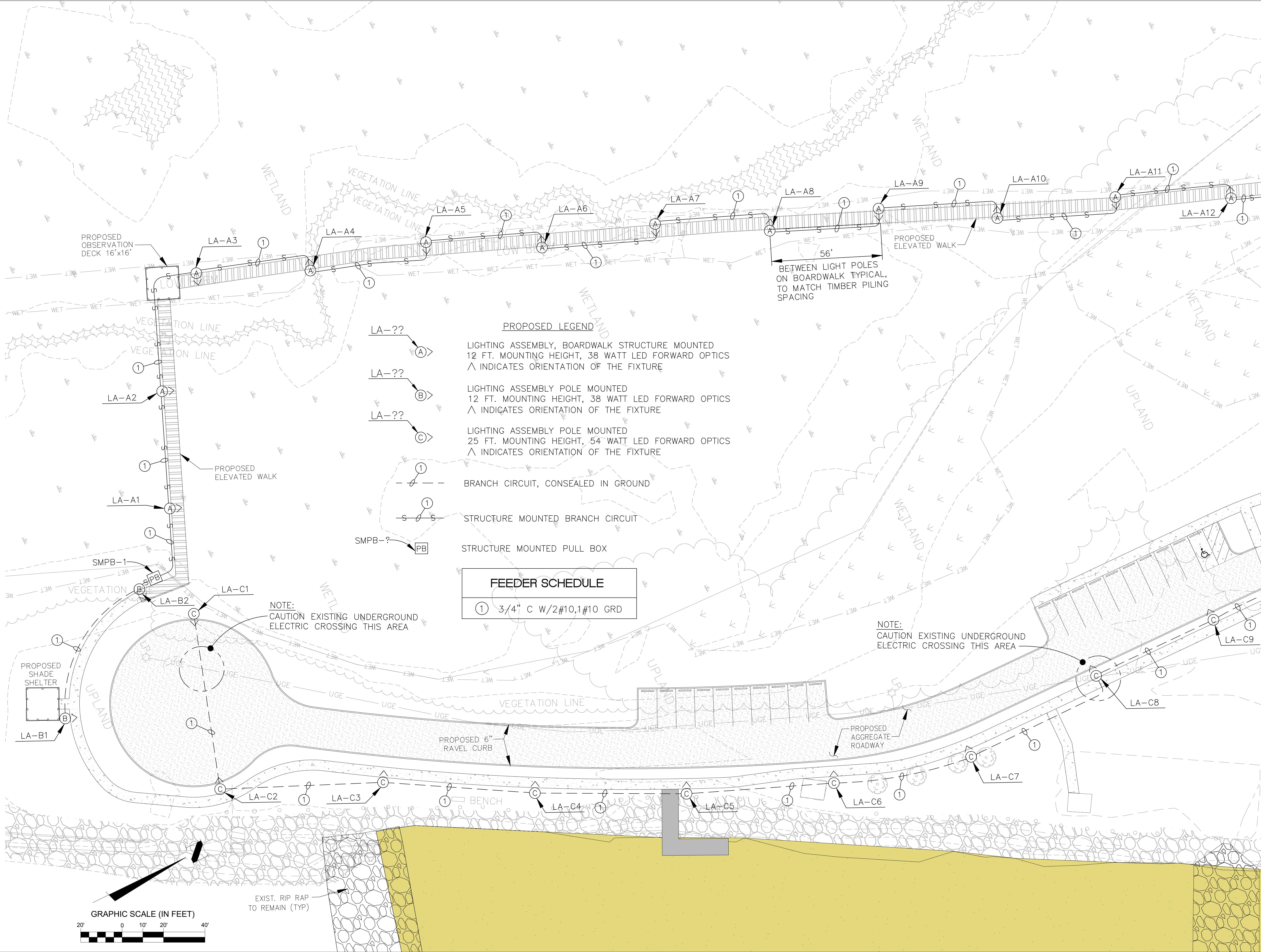
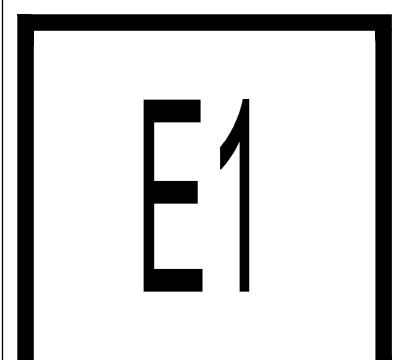
MATCHLINE DWG. E2

(NOT FOR CONSTRUCTION)

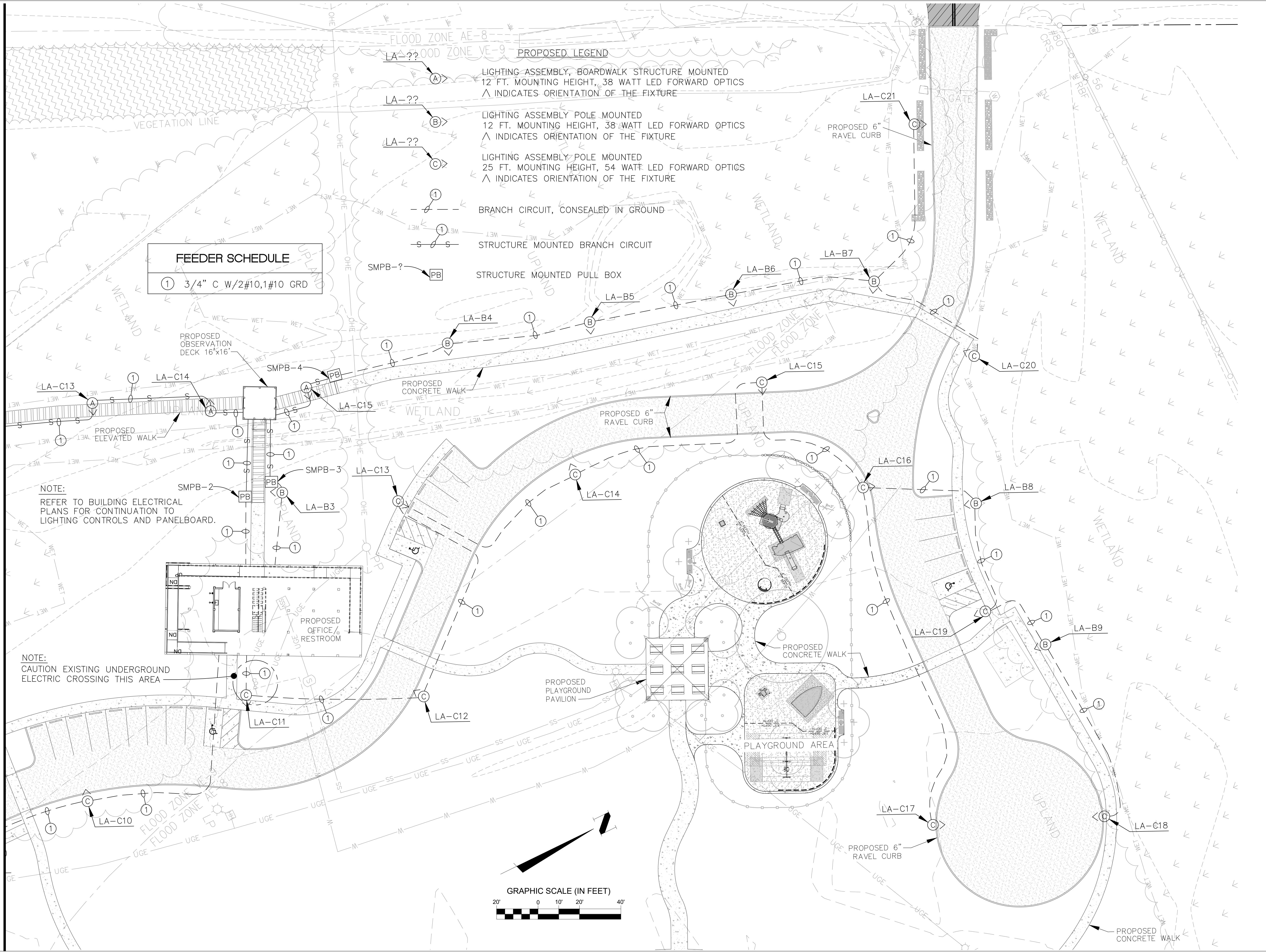
MOBILE COUNTY, BAYFRONT PARK RESTORATION
AND IMPROVEMENTS
ELECTRICAL SITE PLAN
(DWG. 1 OF 2)

MOBILE, ALABAMA

DRAWN BY:	JEM	REVISION	04/29/2020
DATE:	10/24/2019	REVISED PER DCP	
CHECKED BY:	VGR	JOB NO.:	14805



MATCHLINE DWG. E1



(NOT FOR CONSTRUCTION)

MOBILE COUNTY, BAYFRONT PARK RESTORATION
AND IMPROVEMENTS
ELECTRICAL SITE PLAN
(DWG. 2 OF 2)

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DRAWN BY: JEM. DATE: 04/29/2020
CHECKED BY: VGR JOB NO: 14805

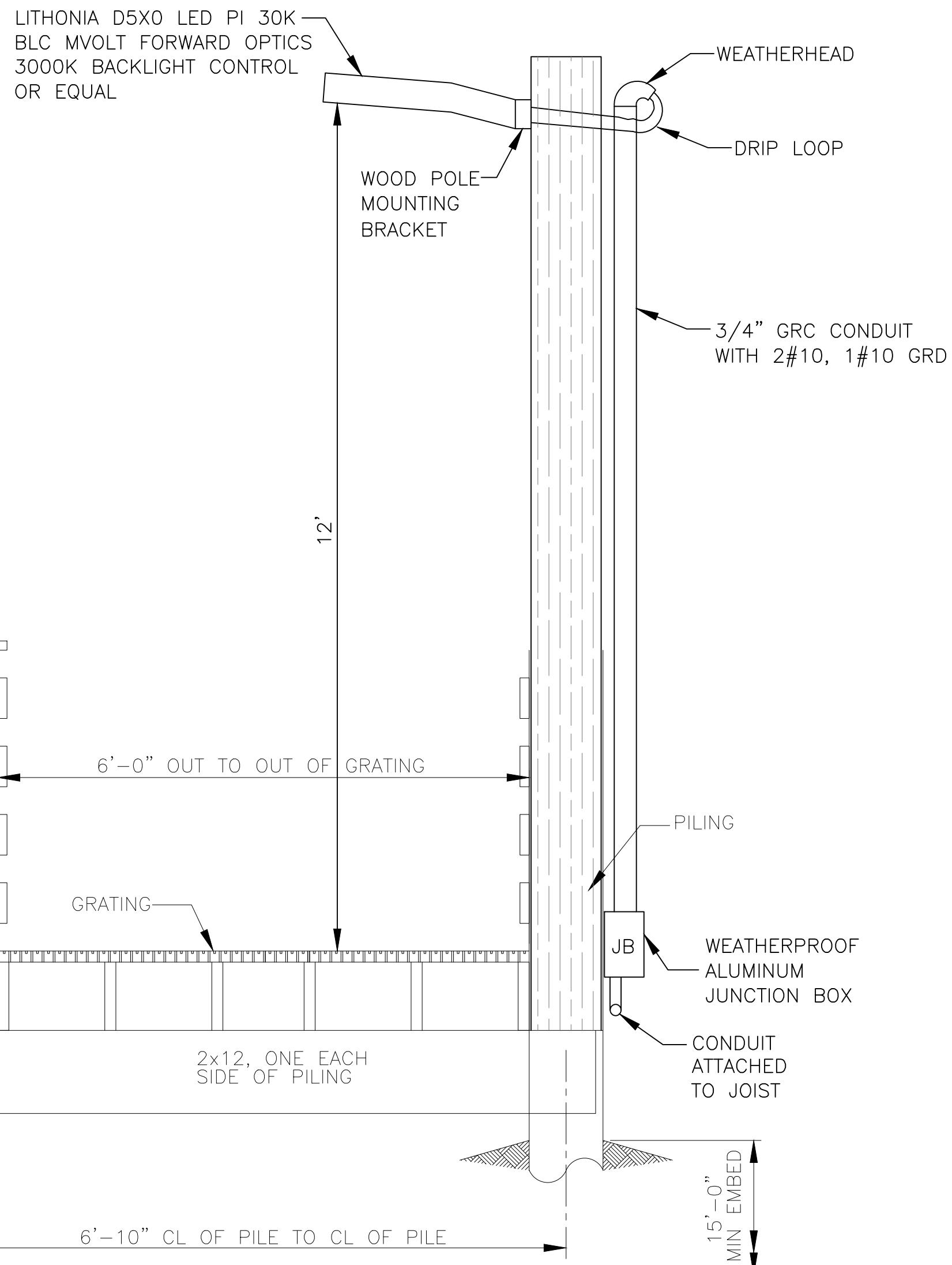
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**MOBILE COUNTY, BAYFRONT PARK RESTORATION
AND IMPROVEMENTS
ELECTRICAL DETAILS
(DWG. 1 OF 2)**

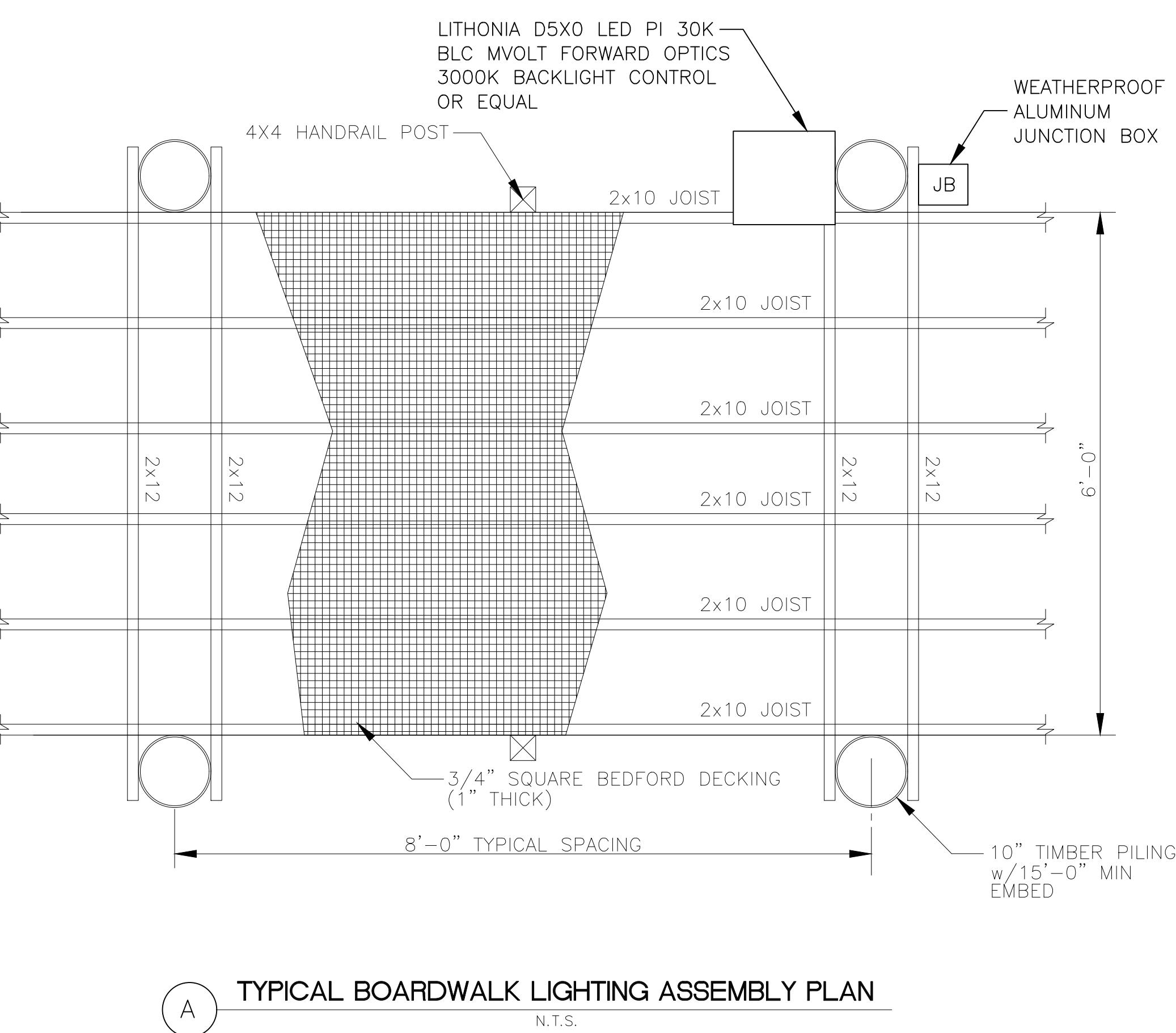
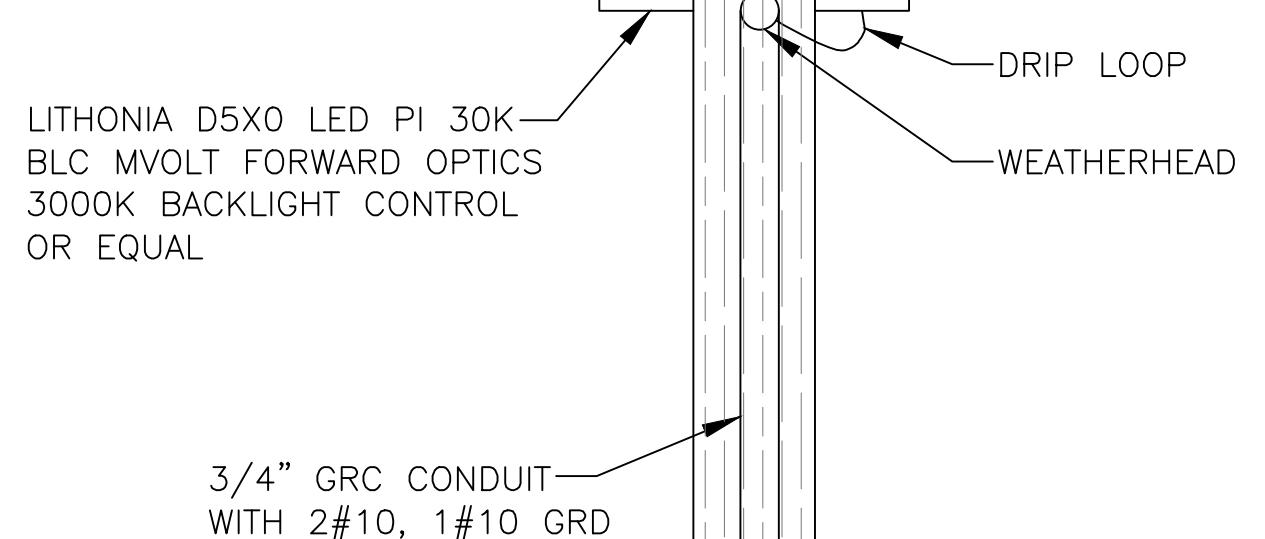
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DATE 10/24/2019	REVISION REVISED PER DDP
DRAWN BY: JEM	checked by: VGR
04/29/2020	JOB NO.: 14805
CHECKED BY: VGR	

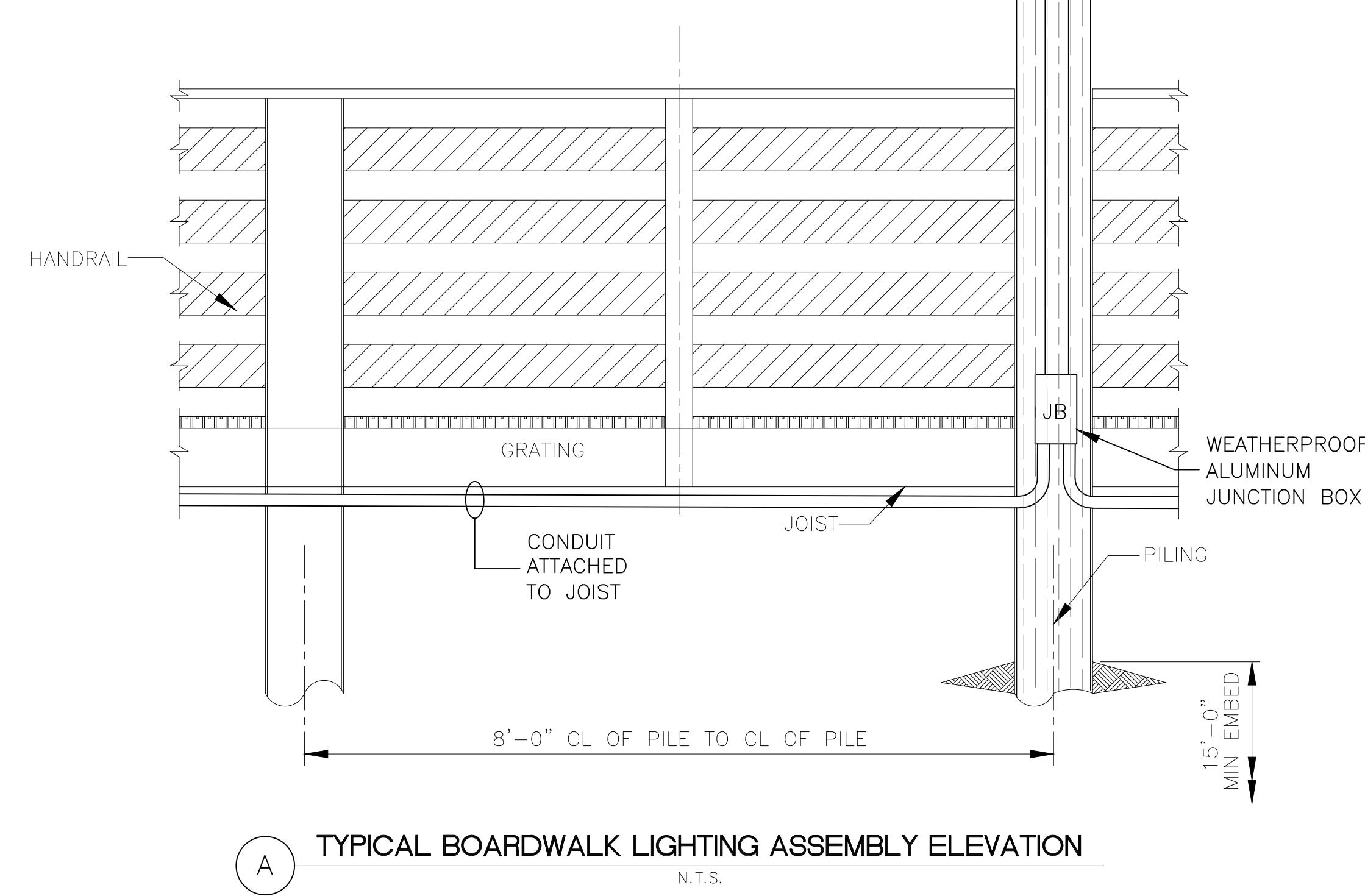
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TYPICAL BOARDWALK LIGHTING ASSEMBLY INSTALLATION
N.T.S.



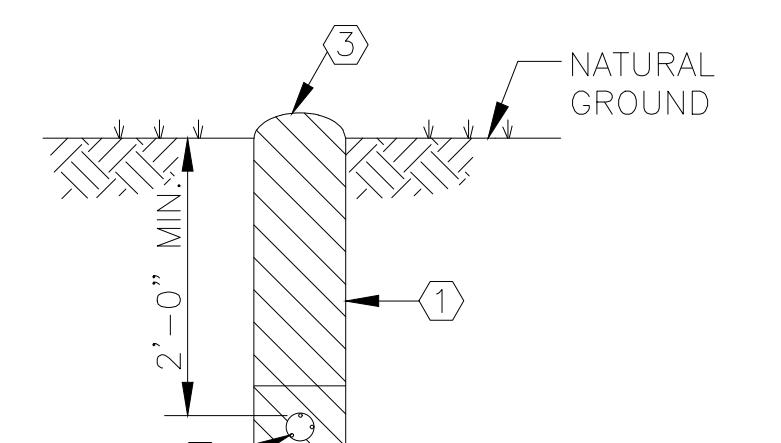
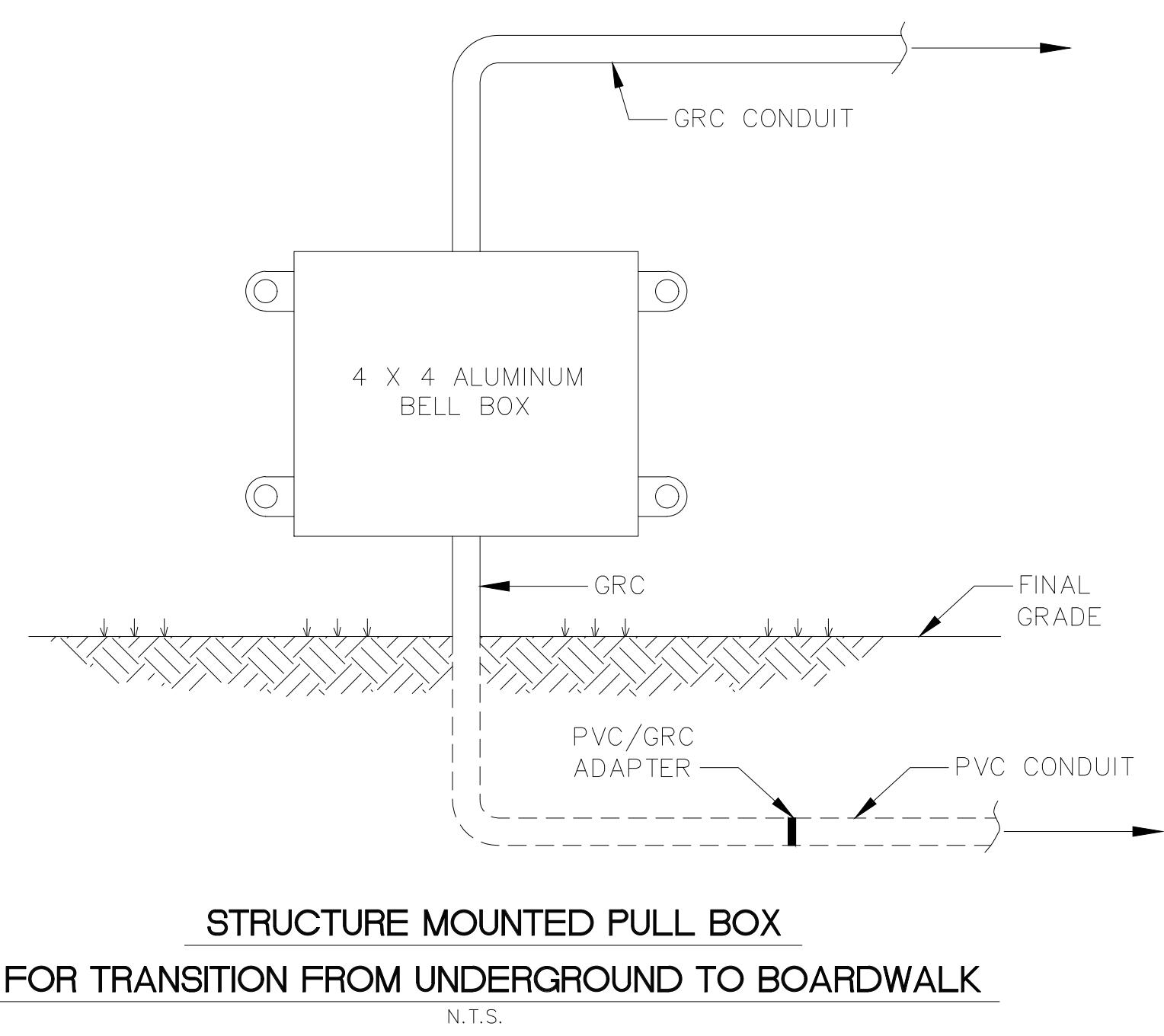
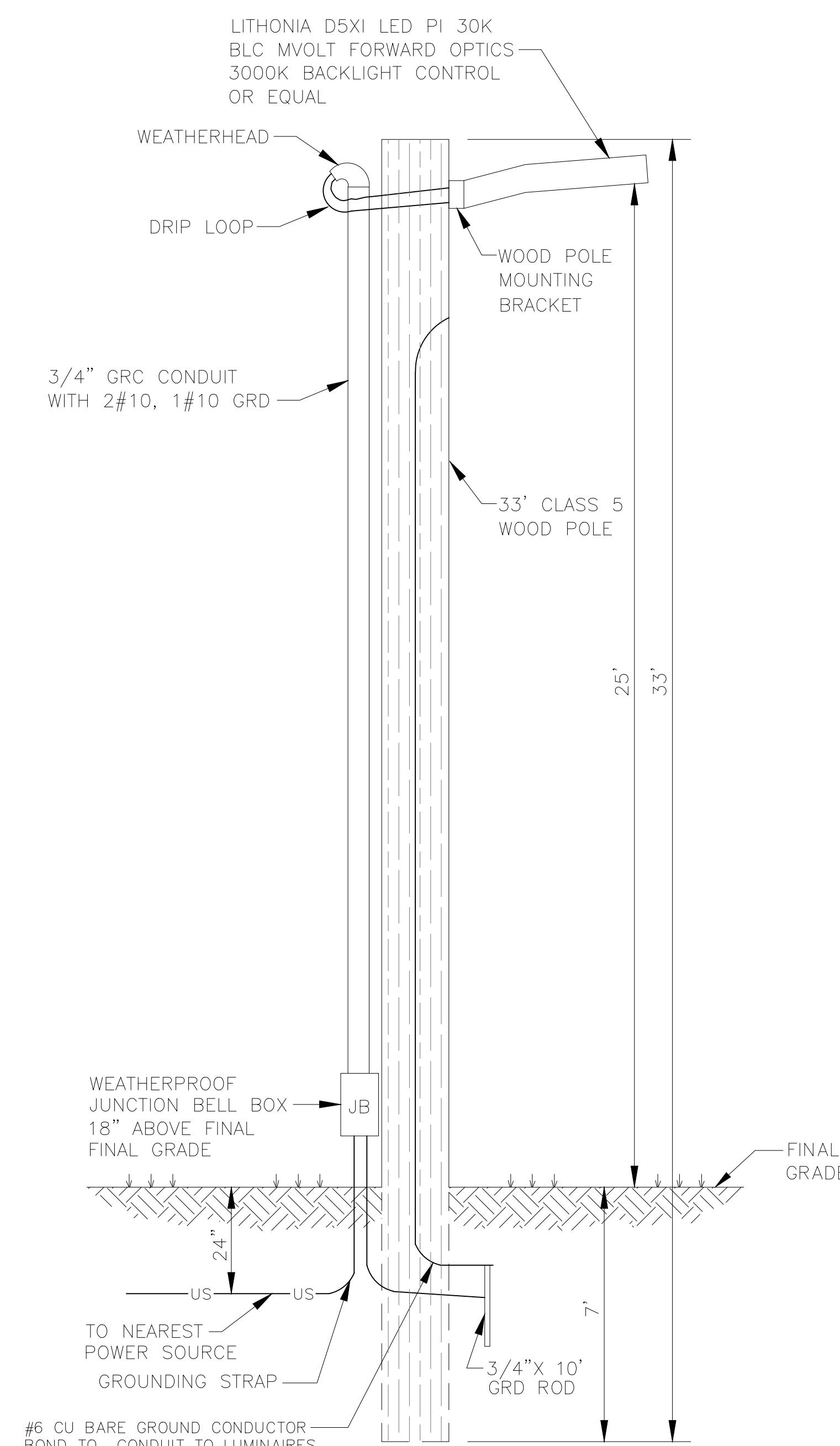
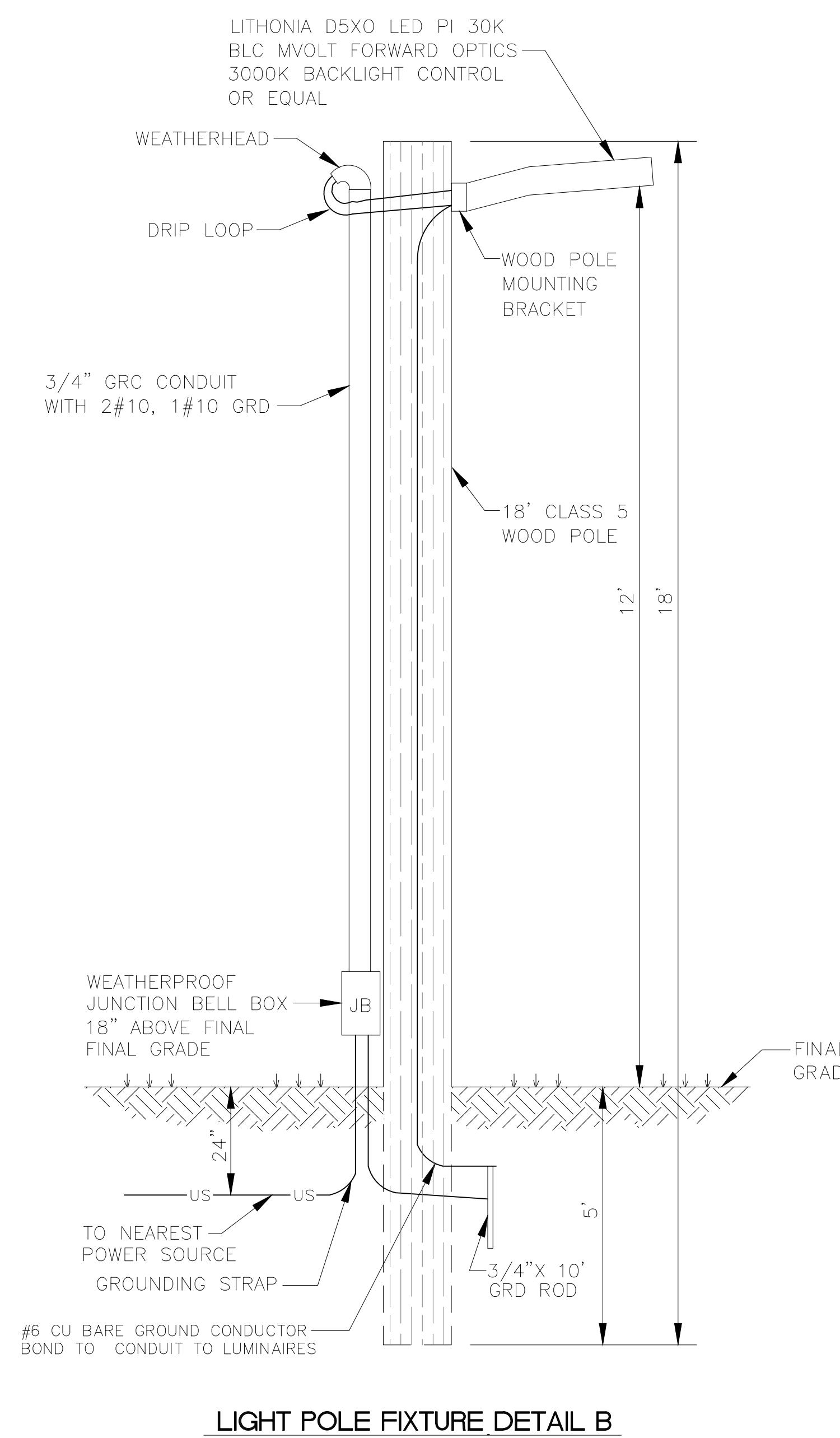
TYPICAL BOARDWALK LIGHTING ASSEMBLY PLAN
N.T.S.



TYPICAL BOARDWALK LIGHTING ASSEMBLY ELEVATION
N.T.S.

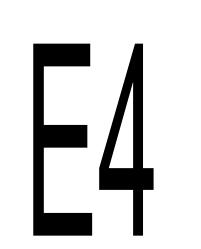
**MOBILE COUNTY, BAYFRONT PARK RESTORATION
AND IMPROVEMENTS
ELECTRICAL DETAILS
(DWG. 2 OF 2)**

(NOT FOR CONSTRUCTION)



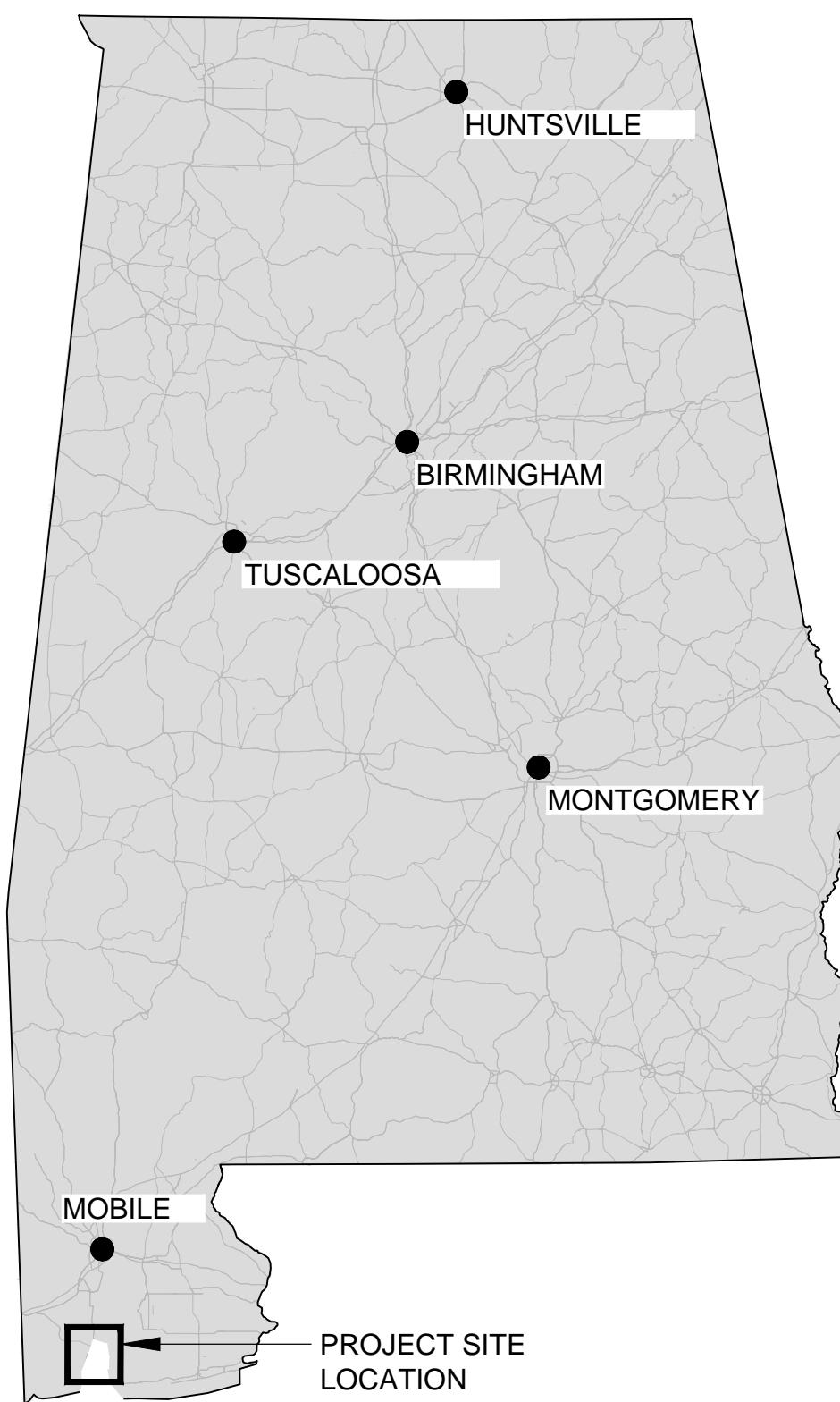
- ① FRIABLE MATERIAL AS APPROVED BY THE ENGINEER COMPACTED 6" LIFTS.
- ② TYPE THWN CABLE IN PVC CONDUIT.
- ③ PILE EXCESS 3" ABOVE GRADE FOR SETTLING OR AS DIRECTED BY ENGINEER.

DATE: 10/24/2019	REVISION: 04/29/2020
REVISED PER DCP	
DRAWN BY: V.G.R. JOB NO.: 14805	
CHECKED BY: JEM DATE: 04/29/2020	
CHECKED BY: V.G.R. JOB NO.: 14805	

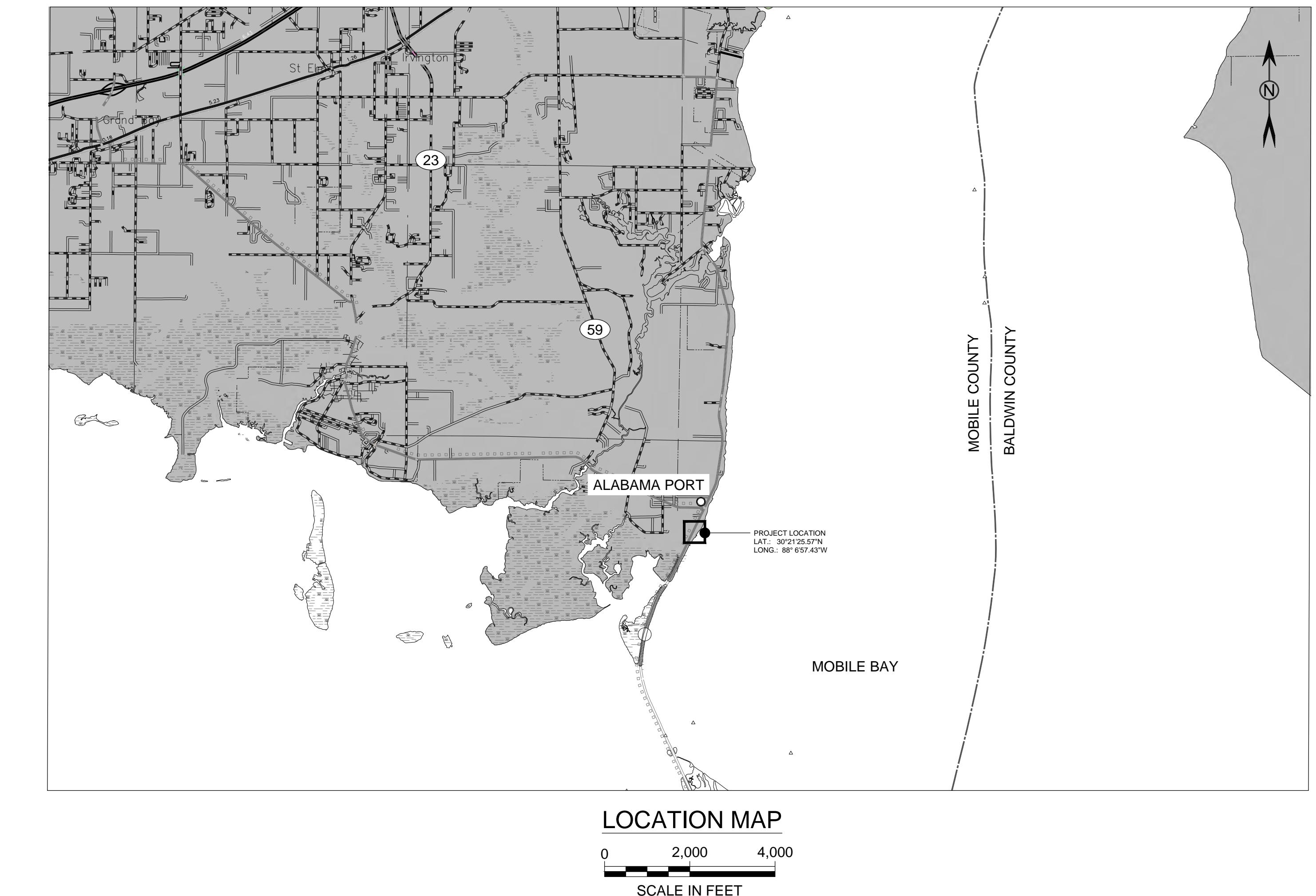


MOBILE COUNTY

BAYFRONT PARK RESTORATION AND IMPROVEMENTS



SHEET INDEX		
SHEET NO.	TITLE	SHEET #
G1	COVER SHEET	1
G2	GENERAL NOTES	2
MARINE		
MA1	EXISTING SITE PLAN	3
MA2	SITE PLAN	4
MA3	SECTIONS 1	5
MA4	SECTIONS 2	6



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VICTORIA CURTO ALABAMA LIC. 38803

Designed	VC	Eng check	
Drawn	BT	Coordination	
Dwg check	KW	Approved	
Scale at ANSI D	Status	Rev	Security

Project Number: 502401023-001 B/O: 1 Total: 6 Drawing Number: G1

Title: BAYFRONT PARK
RESTORATION
AND IMPROVEMENTS
COVER SHEET

GENERAL NOTES

A1 AERIAL PHOTOGRAPH FROM GOOGLE EARTH DATED MARCH 2010. THE IMAGE IS ONLY REPRESENTATIVE OF THE CONDITIONS AT THE TIME THE AERIAL PHOTOGRAPH WAS TAKEN.

A2 **SURVEY**
 1. HORIZONTAL DATUM OF ALL COORDINATES REFERENCED TO NAD 83 ALABAMA PLANE WEST ZONE US FEET UNLESS NOTED OTHERWISE.
 2. ALL ELEVATIONS ARE IN FEET REFERENCED TO NAVD88.
 3. REFERENCE HORIZONTAL AND VERTICAL CONTROL E 511
 N: 1761138.51
 E: 1770155.33
 ELEV: 30.0 NAVD88
 4. ALL SURVEYS WERE REFERENCED TO CONTROL POINT E 511. SEE CONTROL POINT TABLE.
 5. SURVEY DATA COLLECTED BY HYDRO ENGINEERING SOLUTIONS DATED OCTOBER 28, 2018. SURVEY DATA CAN ONLY BE CONSIDERED REPRESENTATIVE OF THE CONDITIONS AT THE TIME OF THE SURVEY.

A3 **PROJECT SITE CONDITIONS**
 1. THE CONTRACTOR IS RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH THE HYDRODYNAMIC CONDITIONS PRESENT AT THE PROJECT SITE PRIOR TO BIDDING. WATER LEVELS MAY VARY DUE TO SEASONAL AND/OR DAY TO DAY VARIATIONS. THE PROJECT SITE CAN BECOME INUNDATED BY WIND, STORM TIDES AND WEATHER EVENTS.
 2. FLUCTUATIONS IN WATER LEVEL AND WAVES AT THE PROJECT SITE OCCUR ON A DAILY BASIS. THE CONTRACTOR IS RESPONSIBLE FOR UTILIZING EQUIPMENT AND METHODS APPROPRIATE FOR THE CONDITIONS AT THE TIME OF CONSTRUCTION

A4 **SITE PROTECTION**
 THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF TEMPORARY SAFETY FENCING TO ESTABLISH LIMITS OF CONSTRUCTION, AVOIDANCE AREAS, AND TO PROTECT THE GENERAL ENVIRONMENT. LOCATION OF THE INSTALLED FENCING MUST BE APPROVED BY THE OWNER/ENGINEER PRIOR TO ANY EQUIPMENT ACCESS OR CONSTRUCTION BY THE CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR REINSTALLATION, REPAIR, AND MAINTENANCE OF FENCING AT ALL TIMES.

A5 **OBSTRUCTION OF NAVIGATION CHANNELS**
 THE CONTRACTOR SHALL KEEP NAVIGATION CHANNELS FREE FROM VESSELS OR OTHER OBSTRUCTIONS. THE CONTRACTOR SHALL CONDUCT THE WORK IN SUCH A MANNER AS TO PRECLUDE ANY OBSTRUCTIONS TO NAVIGATION.

A6 **RIPRAP GROINS**
 RIPRAP GROINS SHALL BE CONSTRUCTED TO THE DIMENSIONS, ELEVATIONS, AND ORIENTATIONS SHOWN IN THESE PLANS.

A7 **BEACH FILL**
 BEACH FILL SHALL BE CONSTRUCTED TO THE DIMENSIONS, ELEVATIONS, AND ORIENTATIONS SHOWN IN THESE PLANS.

A9 **SAFETY**
 FOLLOW PROCEDURES AND GUIDELINES CONSISTENT WITH OSHA REGULATIONS.

A8 **EXISTING STRUCTURES**
 THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO THE BAYFRONT PARK PROPERTY. IF DAMAGES OCCUR, THE CONTRACTOR SHALL MAKE ALL NECESSARY REPAIRS AND/OR REPLACEMENTS AT NO ADDITIONAL COST TO THE PROPERTY OWNERS.

ABBREVIATIONS:

BM	BENCHMARK
B.O.	BOTTOM OF
BW	BULKHEAD WALL WORKING POINT
CL	CENTERLINE
EL	ELEVATION
FT	FEET
GALV	GALVANIZED
HDPE	HIGH DENSITY POLYETHYLENE
MHHW	MEAN HIGHER HIGH WATER
MHHW	MEAN HIGH WATER
MLW	MEAN LOW WATER
MLLW	MEAN LOWER LOW WATER
MIN	MINIMUM
MAX	MAXIMUM
T.O.	TOP OF
TYP	TYPICAL
UGC	UNIFORM GENERAL CONDITIONS
UHMW	ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE
WP	WORKING POINT
W/	WITH
@	AT
'	MINUTES OR FEET
"	SECONDS OR INCHES

POINT ID	NORTHING	EASTING	ELEVATION (NAVD88)
E511	1761138.51	137201.89	+30.0'
H482	1770155.33	123532.09	+16.0'

TIDAL WATER LEVELS (NAVD88)

MEAH HIGHER HIGH WATER (MHHW)	+0.70'
MEAN SEA LEVEL	+0.06'
MEAN LOWER LOW WATER (MLLW)	-0.50'

* TIDAL ELEVATIONS WERE DETERMINED AT DAUPHIN ISLAND, AL NOAA STATION ID 8735180

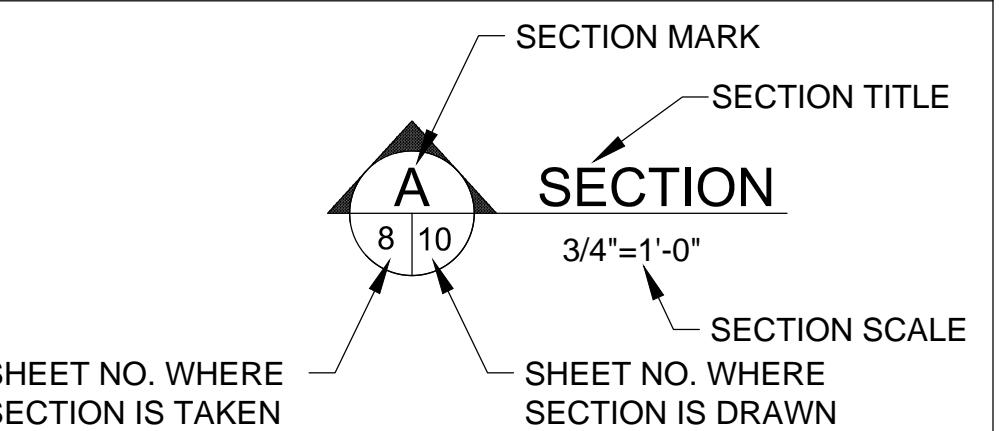
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MOST AGENCIES REQUIRE AT LEAST 48 HOURS NOTICE BEFORE YOU DIG, DRILL, OR BLAST - STOP CALL



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TYPICAL REFERENCE SYMBOLS



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Rev	Date	Drawn	Description	Chk'd	App'd

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ALABAMA LIC. 38803

Project Number
502401023-001

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Dwg check	KW	Approved	
Scale at ANSI D	Status	Rev	Security

B/O

2

Total

6

Drawing Number

G2

Title: BAYFRONT PARK RESTORATION AND IMPROVEMENTS
GENERAL NOTES



LEGEND

— ELEVATION CONTOURS

NOTES:

1. AERIAL PHOTOGRAPHY DATED MARCH 2010, FROM USGS AND IS ONLY REPRESENTATIVE OF THE CONDITIONS AT THE TIME TAKEN
2. CONTOURS SHOWN REPRESENT SURVEY DATA SET FROM OCTOBER 28, 2008.

SITE PLAN

SITE PLAN

0 50 100
SCALE IN FEET

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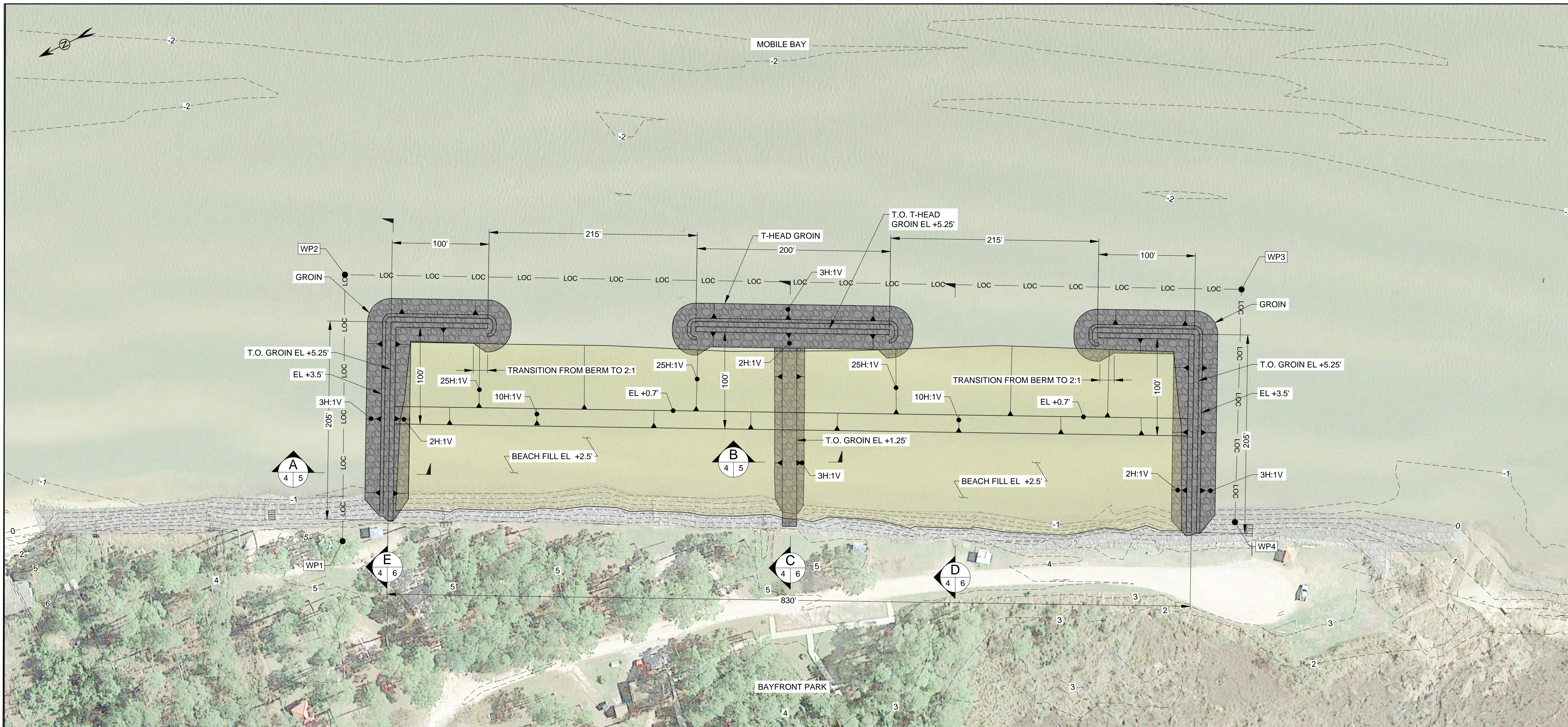
B/O

Total

6

Drawing Number
MA1

Title
BAYFRONT PARK
RESTORATION
AND IMPROVEMENTS
EXISTING SITE PLAN



LEGEND
 ELEVATION CONTOURS
 LOC LIMITS OF CONSTRUCTION

WORKING POINT TABLE		
POINT ID	NORTHING	EASTING
WP1	130340.88	1774187.88
WP2	130219.26	1774434.92
WP3	129391.18	1774019.43
WP4	129501.62	1773805.67

NOTE: ALL COORDINATES SHOWN IN NAD83
 ALABAMA STATE PLANES, WEST ZONE US FOOT.

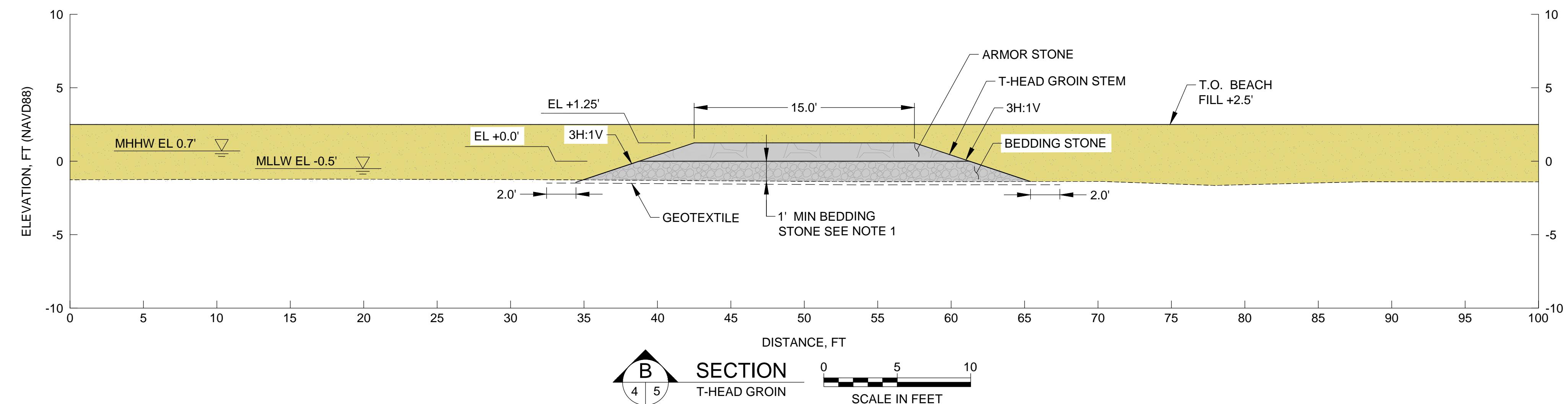
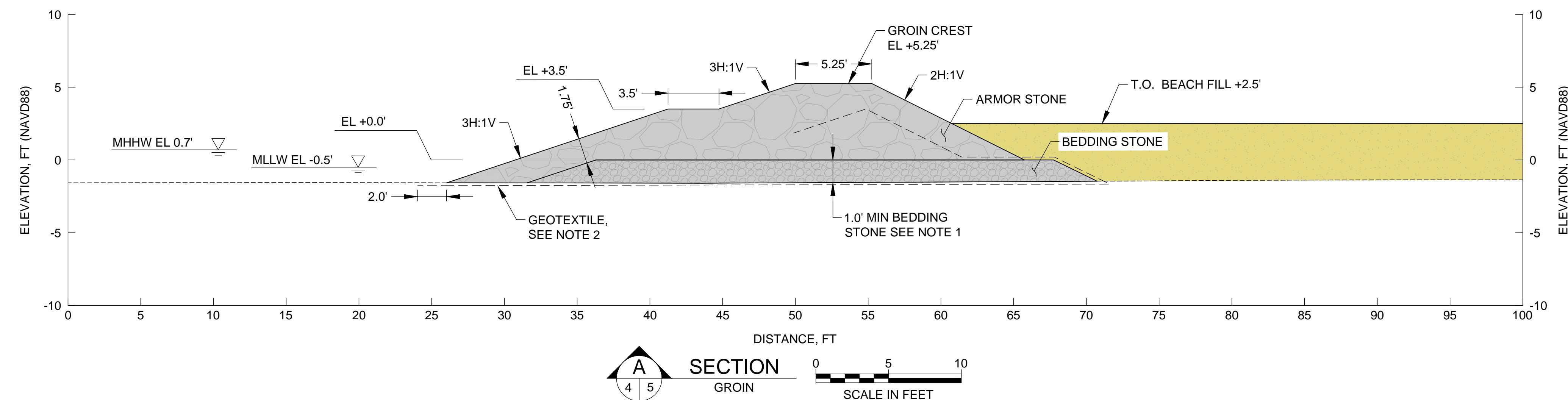
SITE PLAN

SITE PLAN
 0 50 100
 SCALE IN FEET

TIDAL WATER LEVELS (NAVD88)

MEAH HIGHER HIGH WATER (MHHW) +0.70'
 MEAN SEA LEVEL (MSL) +0.06'
 MEAN LOWER LOW WATER (MLLW) -0.50'

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NOTE:

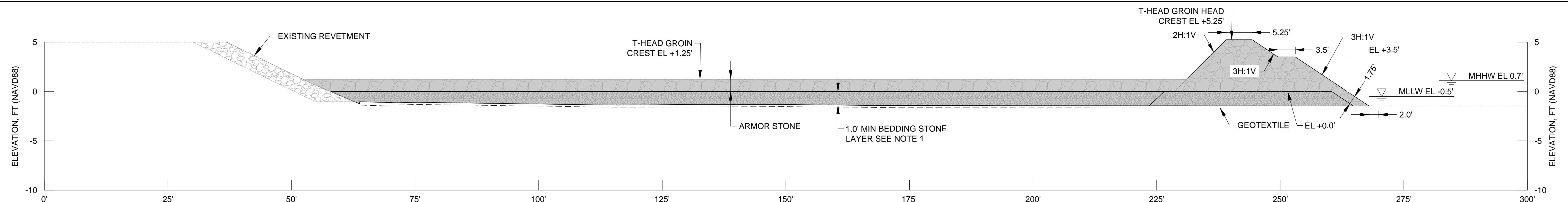
1. BEDDING STONE LAYER SHALL VARY TO ALLOW FOR CROSS SECTION TO MEET ELEVATIONS SHOWN. BEDDING STONE LAYER SHALL BE A MINIMUM THICKNESS OF 1'.
2. GEOTEXTILE LAYER SHALL BE WRAPPED AROUND CORE ARMOR STONE UP TO AN ELEVATION OF +3.5' NAVD88 WITH MINIMUM OF ONE LAYER OF ARMOR STONE OVERTOP OF GEOTEXTILE. EXTEND GEOTEXTILE 2' FROM THE TOE OF THE STRUCTURE.

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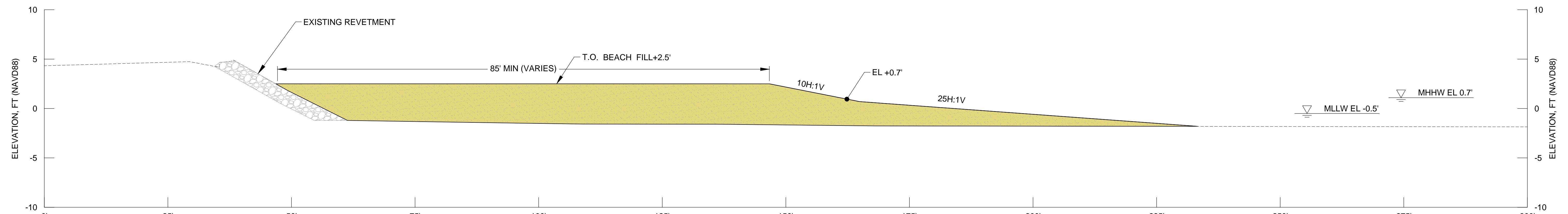
The seal of Mobile County, Alabama, featuring a circular design with the text "MOBILE COUNTY ALABAMA" around the top, a central emblem with a ship and a building, and the date "ED 1812" at the bottom.

STREET R on	Rev	Date	Drawn	Description	Ch'k'd	App'd	<div style="border: 1px solid black; padding: 10px; text-align: center;"> <p>THIS DOCUMENT IS PRELIMINARY AND IS NOT FOR CONSTRUCTION OR ANY PERMITTING PURPOSE</p> <p>VICTORIA CURTO ALABAMA LIC. 38803</p> </div>	Designed	VC		Eng check			<p>Title</p> <p>BAYFRONT PARK RESTORATION AND IMPROVEMENTS SECTIONS 1</p>
								Drawn	BT		Coordination			
								Dwg check	KW		Approved			
Project Number	502401023-001		B/O	5	Total	6	Drawing Number	MA3						



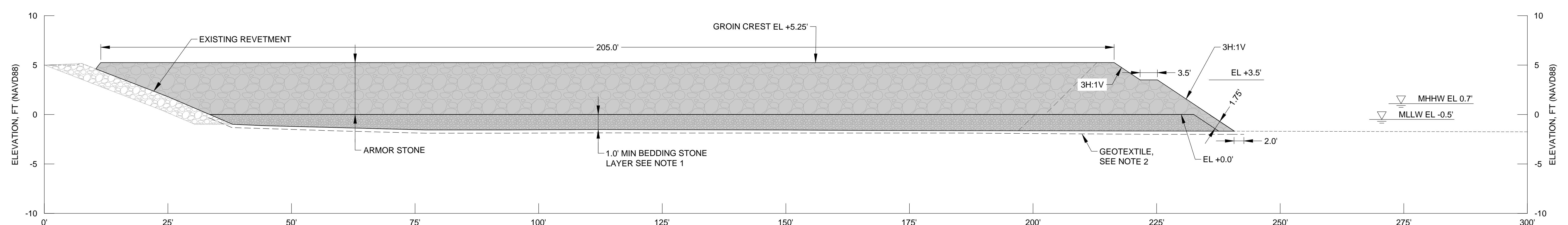
SECTION C
T-HEAD GROIN AND
BREAKWATER

HORIZ. 0 10 20
VERT. 0 5 10
SCALE IN FEET



SECTION D
BEACH FILL

HORIZ. 0 10 20
VERT. 0 5 10
SCALE IN FEET



SECTION E
CENTER GROIN AND
BREAKWATER

HORIZ. 0 10 20
VERT. 0 5 10
SCALE IN FEET

NOTE:
1. BEDDING STONE LAYER SHALL VARY TO ALLOW FOR CROSS
SECTION TO MEET ELEVATIONS SHOWN. BEDDING STONE
LAYER SHALL BE A MINIMUM THICKNESS OF 1'.
2. 2. GEOTEXTILE WRAPPED CORE NOT SHOWN. SEE CROSS
SECTION A, SHEET 5, FOR GEOTEXTILE WRAPPED CORE
DESIGN.

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